284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# DATA PACKAGE

## VOLATILE ORGANICS

**PROJECT NAME : US EPA RIVERSIDE INDUSTRIAL PARK SUPERFUND SITE**

**WOODARD & CURRAN**

**800 Westchester Avenue, Suite N507**

**Suite N507**

**Rye Brook, NY - 10573**

**Phone No: 800-807-4080**

**ORDER ID : Q1665**

**ATTENTION : Bryan Maurer**

**Laboratory Certification ID # 20012**

Table Of Contents for Q1665


1) VOLATILES DATA 2

2) Signature Page 5

3) Shipping Document 6

3.1) 3.1) Chain Of Custody 7

3.2) ROC 25

3.3) Lab Certificate 48

3.4) Internal COC 49

3.5) Air Sample Pressure and Dilution Log Book 50

3.6) Storage Location 52

4) Case Narrative 60

5) Qualifier Page 100

6) QA Checklist 101

7) Chronicle 102

8) Hit Summary 105

9) Air Conversion Table 123

9.1) 9.1) MDL 177

10) QC Data Summary For TO-15 185

10.1) Deuterated Monitoring Compound Summary 186

10.2) LCS/LCSD Summary 187

10.3) 10.3) Duplicate Sample Summary 199

10.4) Method Blank Summary 205

10.5) GS/MS Tune Summary 211

10.6) Internal Standard Area and RT Summary 218

11) Sample Data 224

11.1) AA-DUP-1-3242025 225

11.2) IA-B10-2-3242025 244

11.3) IA-B10-2-3242025DL 268

11.4) AA-1-3242025 279

11.5) IA-B2-3-3242025 298

11.6) IA-B9-1-3242025 330

11.7) IA-DUP-1-3242025 352

11.8) IA-DUP-1-3242025DL 384

11.9) IA-DUP-2-3242025 397

11.10) IA-B9-2-3242025 416

11.11) IA-B10-4-3242025 438

11.12) IA-B10-4-3242025DL 459
11.13) IA-B10-4-3242025DL2 469
11.14) IA-B10-1-3242025 479
11.15) IA-B10-1-3242025DL 505
11.16) IA-B2-6-3242025 516
11.17) IA-B14-1-3242025 549
11.18) IA-B14-1-3242025DL 579
11.19) IA-B2-5-3242025 591
11.20) IA-B10-3-3242025 625
11.21) IA-B10-3-3242025DL 651
11.22) IA-B2-2-3242025 662
11.23) IA-B2-2-3242025DL 695
11.24) IA-B9-3-3242025 708
11.25) IA-B2-1-3242025 730
11.26) IA-B2-1-3242025DL 760
11.27) IA-B2-4-3242025 773
12) Calibration Data Summary 805
12.1) Initial Calibration Data 806
12.1.1) VL032725 806
12.1.2) VL041725 1089
12.2) Continued Calibration Data 1372
12.2.1) VL042286.D 1372
12.2.2) VL042312.D 1420
12.2.3) VL042326.D 1468
12.2.4) VL042416.D 1516
12.2.5) VL042436.D 1564
13) QC Sample Data 1612
13.1) Tune Raw Data 1613
13.2) Method Blank Data 1620
13.3) LCS Data 1686
13.4) 13.4) DUP Data 1968
14) Manual Integration 2000
15) Analytical Runlogs 2023
16) Standard Prep logs 2044
17) Canister Data 2059

18) Not Reviewed Data 2198

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# Cover Page

**Order ID :** Q1665

**Project ID :** US EPA Riverside Industrial Park Superfund Site

**Client :** Woodard & Curran

| Lab Sample Number | Client Sample Number |
|---|---|
| Q1665-01 | AA-DUP-1-3242025 |
| Q1665-03 | IA-B10-2-3242025 |
| Q1665-04 | AA-1-3242025 |
| Q1665-05 | IA-B2-3-3242025 |
| Q1665-06 | IA-B9-1-3242025 |
| Q1665-07 | IA-DUP-1-3242025 |
| Q1665-08 | IA-DUP-2-3242025 |
| Q1665-09 | IA-B9-2-3242025 |
| Q1665-10 | IA-B10-4-3242025 |
| Q1665-11 | IA-B10-1-3242025 |
| Q1665-12 | IA-B2-6-3242025 |
| Q1665-15 | IA-B14-1-3242025 |
| Q1665-16 | IA-B2-5-3242025 |
| Q1665-18 | IA-B10-3-3242025 |
| Q1665-19 | IA-B2-2-3242025 |
| Q1665-20 | IA-B9-3-3242025 |
| Q1665-21 | IA-B2-1-3242025 |
| Q1665-22 | IA-B2-4-3242025 |

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 7/3/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

# SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

**Alliance Project No. :** Q1665

| Client Contact Information | Bottle Order ID : **B2502051** | Courier : | ____ of ____ COCs |
|---|---|---|---|
| Client ID : **WOOD06** Project ID : | **NYCHHC Environmental Services** | Sampler Name(s) : Clayton Hefner | Analysis / Matrix |
| Customer Name : **Woodard & Curran** | Project Manager : **Stephanie rogacki** | AIR ANALYSIS CHAIN-OF-CUSTODY | |
| Address : **800 Westchester Avenue, Suite N507** **Suite N507** | Phone Number : **800-807-4080** | | |
| | Fax Number : **914-448-0147** | | |
| | Site Details: | Batch Certified | |
| City : **Rye Brook** | | | |
| State : **NY** | Analysis Turnaround Time | | |
| Zip Code : **10573** | Standard : **10 business days** **OR** | Data Package Type : | |
| Country : | Rush (Specify): ____ **Days** | EDD Type : | |

| Sample Identification | Sample Date(s) | Time Start (24 hr Clock) | Time Stop (24 hr Clock) | Can Vacuum in Field ("Hg) (Start) | Can Vacuum in Field ("Hg) (Stop)** | Interior Temp. (F) (Start) | Interior Temp. (F) (Stop) | Out going Can Pressure ("Hg)(Lab) | In coming Can Pressure ("Hg)(Lab) | Flow Reg. ID | Can ID | | Flow Controller Readout (ml/min) | Can Cert ID | TO-15 | | | Indoor/Ambinet Air | Soil Gas | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AA-DUP-1 - 3/24/25 | 3/24/25 3/25/25 | 1445 | 1105 | -30 | -10 | — | — | -30 | -8.8 | 10470 ~~10515~~ | 8032 ~~10598~~ | 10323 | 6 L | 4.16 | ~~VL041974.D~~ | X | | | | X | | | |

| | Temperature (Fahrenheit) | | | |
|---|---|---|---|---|
| | Ambient | Maximum | Minimum | |
| Start | | | | |
| Stop | | | | |

GC/MS Analyst Signature (TO-15)

| | Pressure (Inches of Hg) | | | |
|---|---|---|---|---|
| | Ambient | Maximum | Minimum | |
| Start | | | | |
| Stop | | | | |

** Submittal of this COC indicates approval of the analysis based on existing conditions.

* Hold Pending 555G

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings: 0.00 ppm

Sampling site (State): New Jersey

Quick Connector required : NO

| | | | | | |
|---|---|---|---|---|---|
| Canisters Shiped by: | Sam | Date/Time: 3/24/25 | Canisters Received by: | Date/Time: | |
| Samples Relinquished by: | CMH | Date/Time: 3/26/25 0910 | Received by: | Date/Time: 3-26-25 0910 | **B2502051 - 35** |
| Relinquished by: | | Date/Time: 3-26-25 1215 | Received by: | Date/Time: | |

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

**Alliance Project No. :** _____

| | | | |
|---|---|---|---|
| Client Contact Information | Bottle Order ID : **B2502051** | Courier : | ____ of ____ COCs |
| Client ID : **WOOD06** Project ID : | **NYCHHC Environmental Services** | Sampler Name(s) : Clayton Hefner | Analysis / Matrix |
| Customer Name : **Woodard & Curran** | Project Manager : **Stephanie rogacki** | AIR ANALYSIS CHAIN-OF-CUSTODY | |
| Address : **800 Westchester Avenue, Suite N507** **Suite N507** | Phone Number : **800-807-4080** | | |
| | Fax Number : **914-448-0147** | | |
| | Site Details: | Individual Certified | |
| City : **Rye Brook** | | | |
| State : **NY** | Analysis Turnaround Time | | |
| Zip Code : **10573** | Standard : **10 business days** **OR** | Data Package Type : | |
| Country : | Rush (Specify): _____ **Days** | EDD Type : | |

| Sample Identification | Sample Date(s) | Time Start (24 hr Clock) | Time Stop (24 hr Clock) | Can Vacuum in Field ("Hg) (Start) | Can Vacuum in Field ("Hg) (Stop)** | Interior Temp. (F) (Start) | Interior Temp. (F) (Stop) | Out going Can Pressure ("Hg)(Lab) | In coming Can Pressure ("Hg)(Lab) | Flow Reg. ID | Can ID | | Flow Controller Readout (ml/min) | Can Cert ID | TO-15 | Indoor/Ambinet Air | Soil Gas |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IA-810-2 3/24/25 | 3/24/25 3/25/25 | 1253 | 1219 | -29 | -7 | 70 | 70 | -30 | -8.4 | 10515 ~~10207~~ | 2981 ~~10599~~ | 6 L | 4.16 | ~~VL041974.D~~ | X | X | |

| Temperature (Fahrenheit) | Ambient | Maximum | Minimum | |
|---|---|---|---|---|
| Start | 48°F | 60°F | | |
| Stop | 42°F | 42°F | | |

| Pressure (Inches of Hg) | Ambient | Maximum | Minimum | |
|---|---|---|---|---|
| Start | 29.75 | | | |
| Stop | 29.93 | | | |

10154

GC/MS Analyst Signature (TO-15)

** Submittal of this COC indicates approval of the analysis based on existing conditions.

- Hold Pending 555G

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings: 0.3 ppm

Sampling site (State): New Jersey

Quick Connector required : NO

| | | | | | |
|---|---|---|---|---|---|
| Canisters Shiped by: | Date/Time: 3/26/25 1215 | Canisters Received by: | Date/Time: | | |
| Samples Relinquished by: | Date/Time: 3/26/25 0910 | Received by: | Date/Time: 3-26-25 GT | 10 | B2502051 - 36 |
| Relinquished by: | Date/Time: 3-26-25 1215 | Received by: | Date/Time: | | |

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

**Alliance Project No. :** _____

| | | | |
|---|---|---|---|
| Client Contact Information | Bottle Order ID : **B2502051** | Courier : | ____ of ____ COCs |
| Client ID : **WOOD06** Project ID : | **NYCHHC Environmental Services** | Sampler Name(s) : Clayton Hefner | Analysis / Matrix |
| Customer Name : **Woodard & Curran** | Project Manager : **Stephanie rogacki** | AIR ANALYSIS CHAIN-OF-CUSTODY | |
| Address : **800 Westchester Avenue, Suite N507** **Suite N507** | Phone Number : **800-807-4080** | | |
| | Fax Number : **914-448-0147** | | |
| | Site Details: | Batch Certified | |
| City : **Rye Brook** | | | |
| State : **NY** | Analysis Turnaround Time | | |
| Zip Code : **10573** | Standard : **10 business days** **OR** | Data Package Type : | |
| Country : | Rush (Specify): _____ **Days** | EDD Type : | |

| Sample Identification | Sample Date(s) | Time Start (24 hr Clock) | Time Stop (24 hr Clock) | Can Vacuum in Field ("Hg) (Start) | Can Vacuum in Field ("Hg) (Stop)** | Interior Temp. (F) (Start) | Interior Temp. (F) (Stop) | Out going Can Pressure ("Hg)(Lab) | In coming Can Pressure ("Hg)(Lab) | Flow Reg. ID | Can ID | | Flow Controller Readout (ml/min) | Can Cert ID | TO-15 | | | | Indoor/Ambinet Air | Soil Gas | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AA-1-3/24/25 | 3/24/25 3/25/25 | 1445 | 1105 | -29 | -5 | — | — | -30 | -7.1 | 10101 ~~10482~~ | 3362 ~~10275~~ | 6 L | 4.16 | ~~VL042078.D~~ | X | | | | X | | | |

| Temperature (Fahrenheit) | Ambient | Maximum | Minimum | |
|---|---|---|---|---|
| Start | 51° | 60° | 48° | |
| Stop | 54° | | | |

| Pressure (Inches of Hg) | Ambient | Maximum | Minimum | |
|---|---|---|---|---|
| Start | 29.73 | | | |
| Stop | 29.93 | | | |

10268

GC/MS Analyst Signature (TO-15)

** Submittal of this COC indicates approval of the analysis based on existing conditions.

* Hold Pending Analysis

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings: 0.1 ppm

Sampling site (State): New Jersey

Quick Connector required : No

| | | | |
|---|---|---|---|
| Canisters Shiped by: Sam | Date/Time: 3/24/25 | Canisters Received by: | Date/Time: |
| Samples Relinquished by: Clayton | Date/Time: 3/24/25 0910 | Received by: | Date/Time: 3-26-25 0910 |
| Relinquished by: | Date/Time: 3-26-25 1215 | Received by: | Date/Time: |

**B2502051 - 11**

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

**Alliance Project No. :** _____

| | | | |
|---|---|---|---|
| Client Contact Information | Bottle Order ID : **B2502051** | Courier : | ____ of ____ COCs |
| Client ID : **WOOD06** Project ID : | **NYCHHC Environmental Services** | Sampler Name(s) : Clayton Hartman | Analysis / Matrix |
| Customer Name : **Woodard & Curran** | Project Manager : **Stephanie rogacki** | AIR ANALYSIS CHAIN-OF-CUSTODY | |
| Address : **800 Westchester Avenue, Suite N507** **Suite N507** | Phone Number : **800-807-4080** | | |
| | Fax Number : **914-448-0147** | | |
| | Site Details: | Individual Certified | |
| City : **Rye Brook** | | | |
| State : **NY** | Analysis Turnaround Time | | |
| Zip Code : **10573** | Standard : **10 business days** **OR** | Data Package Type : | |
| Country : | Rush (Specify): _____ **Days** | EDD Type : | |

| Sample Identification | Sample Date(s) | Time Start (24 hr Clock) | Time Stop (24 hr Clock) | Can Vacuum in Field ("Hg) (Start) | Can Vacuum in Field ("Hg) (Stop)** | Interior Temp. (F) (Start) | Interior Temp. (F) (Stop) | Out going Can Pressure ("Hg)(Lab) | In coming Can Pressure ("Hg)(Lab) | Flow Reg. ID | Can ID | | Flow Controller Readout (ml/min) | Can Cert ID | TO-15 | | | | Indoor/Ambinet Air | Soil Gas | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IA-02-B-3/24/25 | 3/24/25 3/25/25 | 1620 | 1512 | -30 | -4 | 70 | 70 | -30 | -8.0 | 10552 ~~10203~~ | 10624 ~~10443~~ | 6 L | 4.16 | ~~VL041853.D~~ | X | | | | X | | | |

| Temperature (Fahrenheit) | Ambient | Maximum | Minimum | |
|---|---|---|---|---|
| Start | 54 | 60 | 48 | |
| Stop | 60 | | | |

| Pressure (Inches of Hg) | Ambient | Maximum | Minimum | |
|---|---|---|---|---|
| Start | 29.73 | | | |
| Stop | 29.93 | | | |

10281

GC/MS Analyst Signature (TO-15)

** Submittal of this COC indicates approval of the analysis based on existing conditions.

# Hold Pending 555G

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings: 0.0 ppm

Sampling site (State): New Jersey

Quick Connector required : No

| | | | | | |
|---|---|---|---|---|---|
| Canisters Shiped by: Sam | Date/Time: 3/24/25 | Canisters Received by: | Date/Time: | | |
| Samples Relinquished by: Clay | Date/Time: 3/24/25 0910 | Received by: | Date/Time: 3-26-25 0910 | B2502051 - 27 | |
| Relinquished by: | Date/Time: 3-26-25 1215 | Received by: | Date/Time: | | |

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

**Alliance Project No. :** _____

| | | | |
|---|---|---|---|
| Client Contact Information | Bottle Order ID : **B2502051** | Courier : | _____ of _____ COCs |
| Client ID : **WOOD06** Project ID : | **NYCHHC Environmental Services** | Sampler Name(s) : Christa Hefner | Analysis / Matrix |
| Customer Name : **Woodard & Curran** | Project Manager : **Stephanie rogacki** | AIR ANALYSIS CHAIN-OF-CUSTODY | |
| Address : **800 Westchester Avenue, Suite N507** **Suite N507** | Phone Number : **800-807-4080** | | |
| | Fax Number : **914-448-0147** | | |
| | Site Details: | Batch Certified | |
| City : **Rye Brook** | | | |
| State : **NY** | Analysis Turnaround Time | | |
| Zip Code : **10573** | Standard : **10 business days** **OR** | Data Package Type : | |
| Country : | Rush (Specify): _____ **Days** | EDD Type : | |

| Sample Identification | Sample Date(s) | Time Start (24 hr Clock) | Time Stop (24 hr Clock) | Can Vacuum in Field ("Hg) (Start) | Can Vacuum in Field ("Hg) (Stop)** | Interior Temp. (F) (Start) | Interior Temp. (F) (Stop) | Out going Can Pressure ("Hg)(Lab) | In coming Can Pressure ("Hg)(Lab) | Flow Reg. ID | Can ID | | Flow Controller Readout (ml/min) | Can Cert ID | TO-15 | | | Indoor/Ambinet Air | Soil Gas | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IA-BG-1-3/24/25 | 3/24/25 3/25/25 | 1715 | 1618 | -30 | -10 | 64 | 65 | -30 | -120 | 10204 ~~10558~~ | 5926 ~~10592~~ | 6 L | 4.16 | ~~VL042052.D~~ | X | | | X | | | |

| | Temperature (Fahrenheit) | | | |
|---|---|---|---|---|
| | Ambient | Maximum | Minimum | |
| Start | 55 | 60 | 48 | |
| Stop | 60 | | | |

10198

GC/MS Analyst Signature (TO-15)

| | Pressure (Inches of Hg) | | | |
|---|---|---|---|---|
| | Ambient | Maximum | Minimum | |
| Start | 29.73 | | | |
| Stop | 29.93 | | | |

** Submittal of this COC indicates approval of the analysis based on existing conditions.

* Hold Pending 5556

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings: 0.03 ppm

Sampling site (State): New Jersey

Quick Connector required : NO

| | | | | | |
|---|---|---|---|---|---|
| Canisters Shiped by: | Date/Time: 3/24/25 | Canisters Received by: | Date/Time: | | |
| Samples Relinquished by: | Date/Time: 3/26/25 0910 | Received by: | Date/Time: 3-26-25 0910 | | B2502051 - 31 |
| Relinquished by: | Date/Time: 3-26-25 1215 | Received by: | Date/Time: | | |

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

**Alliance Project No. :** _____

| | | | |
|---|---|---|---|
| Client Contact Information | Bottle Order ID : **B2502051** | Courier : | _____ of _____ COCs |
| Client ID : **WOOD06** Project ID : | **NYCHHC Environmental Services** | Sampler Name(s) : Clayton Hastie | Analysis / Matrix |
| Customer Name : **Woodard & Curran** | Project Manager : **Stephanie rogacki** | AIR ANALYSIS CHAIN-OF-CUSTODY | |
| Address : **800 Westchester Avenue, Suite N507 Suite N507** | Phone Number : **800-807-4080** | | |
| | Fax Number : **914-448-0147** | | |
| | Site Details: | Individual Certified | |
| City : **Rye Brook** | | | |
| State : **NY** | Analysis Turnaround Time | | |
| Zip Code : **10573** | Standard : **10 business days** **OR** | Data Package Type : | |
| Country : | Rush (Specify): _____ **Days** | EDD Type : | |

| Sample Identification | Sample Date(s) | Time Start (24 hr Clock) | Time Stop (24 hr Clock) | Can Vacuum in Field ("Hg) (Start) | Can Vacuum in Field ("Hg) (Stop)** | Interior Temp. (F) (Start) | Interior Temp. (F) (Stop) | Out going Can Pressure ("Hg)(Lab) | In coming Can Pressure ("Hg)(Lab) | Flow Reg. ID | Can ID | | Flow Controller Readout (ml/min) | Can Cert ID | TO-15 | | | | Indoor/Ambinet Air | Soil Gas | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TA-6UP-1-3/24/25 | 3/24/25 3/25/25 | 1620 | 1512 | -30 | -5.5 | 70 | 70 | -30 | -6.7 | 10713 ~~10101~~ | 2263 ~~10268~~ | 6 L | 4.16 | VL041954.D | X | | | | X | | | |

| Temperature (Fahrenheit) | Ambient | Maximum | Minimum | |
|---|---|---|---|---|
| Start | 54 | 60 | 48 | |
| Stop | 60 | | | |

| Pressure (Inches of Hg) | Ambient | Maximum | Minimum | |
|---|---|---|---|---|
| Start | 29.73 | | | |
| Stop | 29.93 | | | |

10592

GC/MS Analyst Signature (TO-15)

** Submittal of this COC indicates approval of the analysis based on existing conditions.

# Hold Pending SSSG

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings: 00 ppm

Sampling site (State): New Jersey

Quick Connector required : NO

| | | | | |
|---|---|---|---|---|
| Canisters Shiped by: | Date/Time: 03/24/25 | Canisters Received by: | Date/Time: | |
| Samples Relinquished by: Clayton | Date/Time: 3/26/25 0910 | Received by: | Date/Time: 3-26-25 0910 | **B2502051 - 8** |
| Relinquished by: | Date/Time: 3-26-25 1215 | Received by: | Date/Time: | |

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

**Alliance Project No. :** _____

| | | | |
|---|---|---|---|
| Client Contact Information | Bottle Order ID : **B2502051** | Courier : | ____ of ____ COCs |
| Client ID : **WOOD06** Project ID : **NYCHHC Environmental Services** | | Sampler Name(s) : Clayton Nuttycombe | Analysis / Matrix |
| Customer Name : **Woodard & Curran** | Project Manager : **Stephanie rogacki** | AIR ANALYSIS CHAIN-OF-CUSTODY | |
| Address : **800 Westchester Avenue, Suite N507** **Suite N507** | Phone Number : **800-807-4080** | | |
| | Fax Number : **914-448-0147** | | |
| | Site Details: | Individual Certified | |
| City : **Rye Brook** | | | |
| State : **NY** | Analysis Turnaround Time | | |
| Zip Code : **10573** | Standard : **10 business days** **OR** | Data Package Type : | |
| Country : | Rush (Specify): _____ **Days** | EDD Type : | |

| Sample Identification | Sample Date(s) | Time Start (24 hr Clock) | Time Stop (24 hr Clock) | Can Vacuum in Field ("Hg) (Start) | Can Vacuum in Field ("Hg) (Stop)** | Interior Temp. (F) (Start) | Interior Temp. (F) (Stop) | Out going Can Pressure ("Hg)(Lab) | In coming Can Pressure ("Hg)(Lab) | Flow Reg. ID | Can ID | | Flow Controller Readout (ml/min) | Can Cert ID | TO-15 | | | | Indoor/Ambinet Air | Soil Gas | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TA-OOP.2-3/24/25 | 3/24/25 3/25/25 | 1715 | 1618 | -30 | -7 | 69 | 65 | -30 | -7.5 | 10207 ~~10206~~ | 10053 10331 | 6 L | 4.16 | ~~VL042078.D~~ | X | | | | X | | | |

| Temperature (Fahrenheit) | Ambient | Maximum | Minimum | |
|---|---|---|---|---|
| Start | 55 | 60 | 48 | |
| Stop | 60 | | | |

GC/MS Analyst Signature (TO-15)

| Pressure (Inches of Hg) | Ambient | Maximum | Minimum | |
|---|---|---|---|---|
| Start | 29.73 | | | |
| Stop | 29.93 | | | |

** Submittal of this COC indicates approval of the analysis based on existing conditions.

* Hold Pending 506G

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings: 0.03 ppm

Sampling site (State): New Jersey

Quick Connector required : No

| | | | |
|---|---|---|---|
| Canisters Shiped by: Sam | Date/Time: 3/24/25 | Canisters Received by: | Date/Time: |
| Samples Relinquished by: [illegible] | Date/Time: 3/26/25 6910 | Received by: [illegible] | Date/Time: 3-26-25 0910 |
| Relinquished by: [illegible] | Date/Time: 3-26-25 1215 | Received by: [illegible] | Date/Time: |

**B2502051 - 24**

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

**Alliance Project No. :** _____

| | | | |
|---|---|---|---|
| Client Contact Information | Bottle Order ID : **B2502051** | Courier : | ____ of ____ COCs |
| Client ID : **WOOD06** Project ID : | **NYCHHC Environmental Services** | Sampler Name(s) : Clayton Mathis | Analysis / Matrix |
| Customer Name : **Woodard & Curran** | Project Manager : **Stephanie rogacki** | AIR ANALYSIS CHAIN-OF-CUSTODY | |
| Address : **800 Westchester Avenue, Suite N507 Suite N507** | Phone Number : **800-807-4080** | | |
| | Fax Number : **914-448-0147** | | |
| | Site Details: | Batch Certified | |
| City : **Rye Brook** | | | |
| State : **NY** | Analysis Turnaround Time | | |
| Zip Code : **10573** | Standard : **10 business days** **OR** | Data Package Type : | |
| Country : | Rush (Specify): _____ **Days** | EDD Type : | |

| Sample Identification | Sample Date(s) | Time Start (24 hr Clock) | Time Stop (24 hr Clock) | Can Vacuum in Field ("Hg) (Start) | Can Vacuum in Field ("Hg) (Stop)** | Interior Temp. (F) (Start) | Interior Temp. (F) (Stop) | Out going Can Pressure ("Hg)(Lab) | In coming Can Pressure ("Hg)(Lab) | Flow Reg. ID | Can ID | | Flow Controller Readout (ml/min) | Can Cert ID | TO-15 | | | | Indoor/Ambinet Air | Soil Gas | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IA-89-2-3/24/25 | 3/24/25 3/25/25 | 1720 | 1622 | -29 | -4 | 64 | 65 | -30 | -5.5 | 10168 ~~10552~~ | 10599 ~~10281~~ | 6 L | 4.16 | ~~VL042052.D~~ | X | | | | X | | | |

| Temperature (Fahrenheit) | Ambient | Maximum | Minimum | |
|---|---|---|---|---|
| Start | 55 | 60 | 48 | |
| Stop | 60 | | | |

GC/MS Analyst Signature (TO-15)

| Pressure (Inches of Hg) | Ambient | Maximum | Minimum | |
|---|---|---|---|---|
| Start | 29.73 | | | |
| Stop | 29.93 | | | |

** Submittal of this COC indicates approval of the analysis based on existing conditions.

* Hold Pending Analysis

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings:

Sampling site (State): New Jersey

Quick Connector required : NO

| | | | | | |
|---|---|---|---|---|---|
| Canisters Shiped by: Sam | Date/Time: 03/24/25 | Canisters Received by: | Date/Time: | | |
| Samples Relinquished by: | Date/Time: 3/26/25 0910 | Received by: | Date/Time: 3-26-25 0910 | | B2502051 - 13 |
| Relinquished by: | Date/Time: 3-26-25 1215 | Received by: | Date/Time: | | |

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

**Alliance Project No. :** _____

| | | | |
|---|---|---|---|
| Client Contact Information | Bottle Order ID : **B2502051** | Courier : | ____ of ____ COCs |
| Client ID : **WOOD06** Project ID : | **NYCHHC Environmental Services** | Sampler Name(s) : Clayton Hutton | Analysis / Matrix |
| Customer Name : **Woodard & Curran** | Project Manager : **Stephanie rogacki** | AIR ANALYSIS CHAIN-OF-CUSTODY | |
| Address : **800 Westchester Avenue, Suite N507 Suite N507** | Phone Number : **800-807-4080** | | |
| | Fax Number : **914-448-0147** | | |
| | Site Details: | Batch Certified | |
| City : **Rye Brook** | Analysis Turnaround Time | | |
| State : **NY** | Standard : **10 business days** **OR** | Data Package Type : | |
| Zip Code : **10573** | Rush (Specify): _____ **Days** | EDD Type : | |
| Country : | | | |

| Sample Identification | Sample Date(s) | Time Start (24 hr Clock) | Time Stop (24 hr Clock) | Can Vacuum in Field ("Hg) (Start) | Can Vacuum in Field ("Hg) (Stop)** | Interior Temp. (F) (Start) | Interior Temp. (F) (Stop) | Out going Can Pressure ("Hg)(Lab) | In coming Can Pressure ("Hg)(Lab) | Flow Reg. ID | Can ID | | Flow Controller Readout (ml/min) | Can Cert ID | TO-15 | | | | Indoor/Ambinet Air | Soil Gas | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IA-B10-4-3/24/25 | 3/24/25 3/26/25 | 1308 | 1229 | -29 | -5 | 70 | 70 | -30 | -7.1 | 10172 ~~10168~~ | 10492 ~~10053~~ | 6 L | 4.16 | ~~VL041974.D~~ | X | | | | X | | | |

| Temperature (Fahrenheit) | Ambient | Maximum | Minimum | |
|---|---|---|---|---|
| Start | 48°F | 60F | | |
| Stop | 42°F | 42°F | | |

GC/MS Analyst Signature (TO-15)

| Pressure (Inches of Hg) | Ambient | Maximum | Minimum | |
|---|---|---|---|---|
| Start | 29.75 | | | |
| Stop | 29.93 | | | |

** Submittal of this COC indicates approval of the analysis based on existing conditions.

X Hold Reading 555G

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings: 0.3 ppm

Sampling site (State): New Jersey

Quick Connector required : No

| | | | | | |
|---|---|---|---|---|---|
| Canisters Shiped by: Sam | Date/Time: 03/24/25 | Canisters Received by: | Date/Time: | | |
| Samples Relinquished by: | Date/Time: 3/26/25 0910 | Received by: | Date/Time: 3.26.25 09 | 10 | B2502051 - 1 |
| Relinquished by: | Date/Time: 3-26-25 1215 | Received by: | Date/Time: | | |

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

**Alliance Project No. :** _____

| | | | |
|---|---|---|---|
| Client Contact Information | Bottle Order ID : **B2502051** | Courier : | _____ of _____ COCs |
| Client ID : **WOOD06** Project ID : | **NYCHHC Environmental Services** | Sampler Name(s) : Clayton Hofner | Analysis / Matrix |
| Customer Name : **Woodard & Curran** | Project Manager : **Stephanie rogacki** | AIR ANALYSIS CHAIN-OF-CUSTODY | |
| Address : **800 Westchester Avenue, Suite N507** **Suite N507** | Phone Number : **800-807-4080** | | |
| | Fax Number : **914-448-0147** | | |
| | Site Details: | Individual Certified | |
| City : **Rye Brook** | | | |
| State : **NY** | Analysis Turnaround Time | | |
| Zip Code : **10573** | Standard : **10 business days** **OR** | Data Package Type : | |
| Country : | Rush (Specify): _____ **Days** | EDD Type : | |

| Sample Identification | Sample Date(s) | Time Start (24 hr Clock) | Time Stop (24 hr Clock) | Can Vacuum in Field ("Hg) (Start) | Can Vacuum in Field ("Hg) (Stop)** | Interior Temp. (F) (Start) | Interior Temp. (F) (Stop) | Out going Can Pressure ("Hg)(Lab) | In coming Can Pressure ("Hg)(Lab) | Flow Reg. ID | Can ID | | Flow Controller Readout (ml/min) | Can Cert ID | TO-15 | | | | Indoor/Ambinet Air | Soil Gas | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A-BIO - 1-3/24/25 | 3/24/25 3/25/25 | 1248 | 1212 | -23 | -5 | 70 | 71 | -30 | ~~-5~~ -6.3 | 10190 ~~10222~~ | 10598 ~~10271~~ | | 6 L | 4.16 | VL042052.D | X | | | | X | | | |

| Temperature (Fahrenheit) | Ambient | Maximum | Minimum | |
|---|---|---|---|---|
| Start | 48°F | 60°F | | |
| Stop | 42°F | 42°F | | |

GC/MS Analyst Signature (TO-15)

| Pressure (Inches of Hg) | Ambient | Maximum | Minimum | |
|---|---|---|---|---|
| Start | 29.75 | | | |
| Stop | 29.93 | | | |

** Submittal of this COC indicates approval of the analysis based on existing conditions.

* Hold Pending SSSG

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings: 0.1 ppm

Sampling site (State): New Jersey

Quick Connector required : NO

| | | | | | |
|---|---|---|---|---|---|
| Canisters Shiped by: | | Date/Time: 3/24/25 | Canisters Received by: | Date/Time: | |
| Samples Relinquished by: | | Date/Time: 3/26/25 0940 | Received by: | Date/Time: 3-26-25 0940 | B2502051 - 10 |
| Relinquished by: | | Date/Time: 3-26-25 1219 | Received by: | Date/Time: | |

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

**Alliance Project No. :** _____

| | | | |
|---|---|---|---|
| Client Contact Information | Bottle Order ID : **B2502051** | Courier : | _____ of _____ COCs |
| Client ID : **WOOD06** Project ID : | **NYCHHC Environmental Services** | Sampler Name(s) : Clayton Nuñez | Analysis / Matrix |
| Customer Name : **Woodard & Curran** | Project Manager : **Stephanie rogacki** | AIR ANALYSIS CHAIN-OF-CUSTODY | |
| Address : **800 Westchester Avenue, Suite N507** **Suite N507** | Phone Number : **800-807-4080** | | |
| | Fax Number : **914-448-0147** | | |
| | Site Details: | Batch Certified | |
| City : **Rye Brook** | | | |
| State : **NY** | Analysis Turnaround Time | | |
| Zip Code : **10573** | Standard : **10 business days** **OR** | Data Package Type : | |
| Country : | Rush (Specify): _____ **Days** | EDD Type : | |

| Sample Identification | Sample Date(s) | Time Start (24 hr Clock) | Time Stop (24 hr Clock) | Can Vacuum in Field ("Hg) (Start) | Can Vacuum in Field ("Hg) (Stop)** | Interior Temp. (F) (Start) | Interior Temp. (F) (Stop) | Out going Can Pressure ("Hg)(Lab) | In coming Can Pressure ("Hg)(Lab) | Flow Reg. ID | Can ID | | Flow Controller Readout (ml/min) | Can Cert ID | TO-15 | | | | Indoor/Ambinet Air | Soil Gas | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IA-B2-6-3/24/25 | 3/24/25 3/25/25 | 1648 | 1603 | -29 | -10.5 | 70 | 70 | -30 | -13.7 | 10626 ~~10240~~ | 10271 ~~10608~~ | 6 L | 4.16 | VL041974.D | X | | | | X | | | |

| Temperature (Fahrenheit) | Ambient | Maximum | Minimum | |
|---|---|---|---|---|
| Start | 54 | 60 | 48 | |
| Stop | 60 | | | |

GC/MS Analyst Signature (TO-15)

| Pressure (Inches of Hg) | Ambient | Maximum | Minimum | |
|---|---|---|---|---|
| Start | 29.73 | | | |
| Stop | 29.93 | | | |

** Submittal of this COC indicates approval of the analysis based on existing conditions.

* Hold Pending 5556

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings: 0.00 ppm

Sampling site (State): New Jersey

Quick Connector required : No

| | | | | | |
|---|---|---|---|---|---|
| Canisters Shiped by: Sam | Date/Time: 3/24/25 | Canisters Received by: | Date/Time: | | |
| Samples Relinquished by: CNN | Date/Time: 3/26/25 0810 | Received by: | Date/Time: 3-26-25 0810 | **B2502051 - 41** | |
| Relinquished by: | Date/Time: 3-26-25 1215 | Received by: | Date/Time: | | |

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

**Alliance Project No. :** _____

| | | | |
|---|---|---|---|
| Client Contact Information | Bottle Order ID : **B2502051** | Courier : | ____ of ____ COCs |
| Client ID : **WOOD06** Project ID : | **NYCHHC Environmental Services** | Sampler Name(s) : Clayton Hefner | Analysis / Matrix |
| Customer Name : **Woodard & Curran** | Project Manager : **Stephanie rogacki** | AIR ANALYSIS CHAIN-OF-CUSTODY | |
| Address : **800 Westchester Avenue, Suite N507** **Suite N507** | Phone Number : **800-807-4080** | | |
| | Fax Number : **914-448-0147** | Batch Certified | |
| City : **Rye Brook** | Site Details: | | |
| State : **NY** | Analysis Turnaround Time | | |
| Zip Code : **10573** | Standard : **10 business days** **OR** | Data Package Type : | |
| Country : | Rush (Specify): _____ **Days** | EDD Type : | |

| Sample Identification | Sample Date(s) | Time Start (24 hr Clock) | Time Stop (24 hr Clock) | Can Vacuum in Field ("Hg) (Start) | Can Vacuum in Field ("Hg) (Stop)** | Interior Temp. (F) (Start) | Interior Temp. (F) (Stop) | Out going Can Pressure ("Hg)(Lab) | In coming Can Pressure ("Hg)(Lab) | Flow Reg. ID | Can ID | | Flow Controller Readout (ml/min) | Can Cert ID | TO-15 | Indoor/Ambinet Air | Soil Gas |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A-614-I-3/20/25 | 3/20/25 3/20/25 | 1357 | 1245 | -30 | -5 | 72 | 69 | -30 | -6.3 | 10505 ~~10505~~ | 10266 ~~10294~~ | 6 L | 4.16 | ~~VL042078.D~~ | X | X | |

| Temperature (Fahrenheit) | Ambient | Maximum | Minimum | |
|---|---|---|---|---|
| Start | 51 | 60°F | 48°F | |
| Stop | 54 | | | |

GC/MS Analyst Signature (TO-15)

| Pressure (Inches of Hg) | Ambient | Maximum | Minimum | |
|---|---|---|---|---|
| Start | 29.74 | | | |
| Stop | 29.93 | | | |

** Submittal of this COC indicates approval of the analysis based on existing conditions.

* Hold Pending 555G

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings: 0.3 ppm

Sampling site (State):

Quick Connector required : No

| | | | | | |
|---|---|---|---|---|---|
| Canisters Shiped by: Sam | Date/Time: 03/24/25 | Canisters Received by: | Date/Time: | | |
| Samples Relinquished by: | Date/Time: 3/20/25 0910 | Received by: | Date/Time: 3-26-25 0910 | **B2502051 - 17** | |
| Relinquished by: | Date/Time: 3-20-25 1215 | Received by: | Date/Time: | | |

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

**Alliance Project No. :** _____

| | | | |
|---|---|---|---|
| Client Contact Information | Bottle Order ID : **B2502051** | Courier : | _____ of _____ COCs |
| Client ID : **WOOD06** Project ID : | **NYCHHC Environmental Services** | Sampler Name(s) : Cynthia Nuñez | Analysis / Matrix |
| Customer Name : **Woodard & Curran** | Project Manager : **Stephanie rogacki** | AIR ANALYSIS CHAIN-OF-CUSTODY | |
| Address : **800 Westchester Avenue, Suite N507** **Suite N507** | Phone Number : **800-807-4080** | | |
| | Fax Number : **914-448-0147** | | |
| | Site Details: | Batch Certified | |
| City : **Rye Brook** | | | |
| State : **NY** | Analysis Turnaround Time | | |
| Zip Code : **10573** | Standard : **10 business days** **OR** | Data Package Type : | |
| Country : | Rush (Specify): _____ **Days** | EDD Type : | |

| Sample Identification | Sample Date(s) | Time Start (24 hr Clock) | Time Stop (24 hr Clock) | Can Vacuum in Field ("Hg) (Start) | Can Vacuum in Field ("Hg) (Stop)** | Interior Temp. (F) (Start) | Interior Temp. (F) (Stop) | Out going Can Pressure ("Hg)(Lab) | In coming Can Pressure ("Hg)(Lab) | Flow Reg. ID | Can ID | | Flow Controller Readout (ml/min) | Can Cert ID | TO-15 | | | | Indoor/Ambinet Air | Soil Gas | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IA-82-5-3/24/25 | 3/24/25 3/25/25 | 1644 | 1504 | -29 | -8.5 | 70 | 70 | -30 | -8.0 | 10240 ~~10478~~ | 10608 ~~10323~~ | 6 L | 4.16 | ~~VL041974.D~~ | X | | | | X | | | |

| Temperature (Fahrenheit) | Ambient | Maximum | Minimum | |
|---|---|---|---|---|
| Start | 54 | 60 | 48 | |
| Stop | 60 | | | |

| Pressure (Inches of Hg) | Ambient | Maximum | Minimum | |
|---|---|---|---|---|
| Start | 29.73 | | | |
| Stop | 29.93 | | | |

GC/MS Analyst Signature (TO-15)

** Submittal of this COC indicates approval of the analysis based on existing conditions.

* Hold Pending 555G

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings: 0.00 ppm

Sampling site (State): New Jersey

Quick Connector required : NO

| | | | | | |
|---|---|---|---|---|---|
| Canisters Shiped by: | Date/Time: 3/24/25 | Canisters Received by: | Date/Time: | | |
| Samples Relinquished by: | Date/Time: 3/26/25 0910 | Received by: | Date/Time: 3-26-25 0910 | **B2502051 - 23** | |
| Relinquished by: | Date/Time: 3-26-25 1215 | Received by: | Date/Time: | | |

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

**Alliance Project No. :** _____

| | | | | | |
|---|---|---|---|---|---|
| Client Contact Information | | Bottle Order ID : | **B2502051** | Courier : | _____ of _____ COCs |
| Client ID : | **WOOD06** | Project ID : | **NYCHHC Environmental Services** | Sampler Name(s) : Clyston Hefner | Analysis / Matrix |
| Customer Name : | **Woodard & Curran** | Project Manager : | **Stephanie rogacki** | AIR ANALYSIS CHAIN-OF-CUSTODY | |
| Address : | **800 Westchester Avenue, Suite N507 Suite N507** | Phone Number : | **800-807-4080** | | |
| | | Fax Number : | **914-448-0147** | | |
| | | Site Details: | | Batch Certified | |
| City : | **Rye Brook** | | | | |
| State : | **NY** | Analysis Turnaround Time | | | |
| Zip Code : | **10573** | Standard : | **10 business days** **OR** | Data Package Type : | |
| Country : | | Rush (Specify): _____ | **Days** | EDD Type : | |

| Sample Identification | Sample Date(s) | Time Start (24 hr Clock) | Time Stop (24 hr Clock) | Can Vacuum in Field ("Hg) (Start) | Can Vacuum in Field ("Hg) (Stop)** | Interior Temp. (F) (Start) | Interior Temp. (F) (Stop) | Out going Can Pressure ("Hg)(Lab) | In coming Can Pressure ("Hg)(Lab) | Flow Reg. ID | Can ID | | Flow Controller Readout (ml/min) | Can Cert ID | TO-15 | | | Indoor/Ambinet Air | Soil Gas | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TA-B10-7-3/24/25 | 3/24/25 3/25/25 | 1302 | 1222 | -29 | -7.5 | 70 | 70 | -30 | -8.0 | 10476 ~~10204~~ | 10297 ~~10198~~ | 6 L | 4.16 | ~~VL042052.D~~ | X | | | X | | | |

| Temperature (Fahrenheit) | Ambient | Maximum | Minimum | |
|---|---|---|---|---|
| Start | 48°F | 60°F | | |
| Stop | 42°F | 42°F | | |

GC/MS Analyst Signature (TO-15): Sut

| Pressure (Inches of Hg) | Ambient | Maximum | Minimum | |
|---|---|---|---|---|
| Start | 29.75 | | | |
| Stop | 29.93 | | | |

** Submittal of this COC indicates approval of the analysis based on existing conditions.

• Hold Pending SSSG

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings: 0.3 ppm

Sampling site (State): New Jersey

Quick Connector required : No

| | | | | | |
|---|---|---|---|---|---|
| Canisters Shiped by: Sam | Date/Time: 03/24/25 | Canisters Received by: | | Date/Time: | |
| Samples Relinquished by: Clyston | Date/Time: 3/26/25 0910 | Received by: | | Date/Time: 3-26-25 0910 | 18 B2502051 - 5 |
| Relinquished by: | Date/Time: 3-26-25 1215 | Received by: | | Date/Time: | |

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

**Alliance Project No. :** _____

| | | | |
|---|---|---|---|
| Client Contact Information | Bottle Order ID : **B2502051** | Courier : | ____ of ____ COCs |
| Client ID : **WOOD06** Project ID : | **NYCHHC Environmental Services** | Sampler Name(s) : Clayton Hefner | Analysis / Matrix |
| Customer Name : **Woodard & Curran** | Project Manager : **Stephanie rogacki** | AIR ANALYSIS CHAIN-OF-CUSTODY | |
| Address : **800 Westchester Avenue, Suite N507** **Suite N507** | Phone Number : **800-807-4080** | | |
| | Fax Number : **914-448-0147** | | |
| | Site Details: | Batch Certified | |
| City : **Rye Brook** | | | |
| State : **NY** | Analysis Turnaround Time | | |
| Zip Code : **10573** | Standard : **10 business days** **OR** | Data Package Type : | |
| Country : | Rush (Specify): _____ **Days** | EDD Type : | |

| Sample Identification | Sample Date(s) | Time Start (24 hr Clock) | Time Stop (24 hr Clock) | Can Vacuum in Field ("Hg) (Start) | Can Vacuum in Field ("Hg) (Stop)** | Interior Temp. (F) (Start) | Interior Temp. (F) (Stop) | Out going Can Pressure ("Hg)(Lab) | In coming Can Pressure ("Hg)(Lab) | Flow Reg. ID | Can ID | | Flow Controller Readout (ml/min) | Can Cert ID | TO-15 | | | Indoor/Ambinet Air | Soil Gas | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IA-B2-2-3/24/25 | 3/24/25 3/25/25 | 1616 | 1519 | -30 | -9 | 70 | 70 | -30 | -8.0 | 10206 ~~10172~~ | 10331 ~~10492~~ | 6 L | 4.16 | ~~VL042143.D~~ | X | | | | X | | | |

| Temperature (Fahrenheit) | Ambient | Maximum | Minimum | |
|---|---|---|---|---|
| Start | 54 | 60 | 48 | |
| Stop | 60 | | | |

GC/MS Analyst Signature (TO-15)

| Pressure (Inches of Hg) | Ambient | Maximum | Minimum | |
|---|---|---|---|---|
| Start | 29.73 | | | |
| Stop | 29.93 | | | |

** Submittal of this COC indicates approval of the analysis based on existing conditions.

* Hold Pending SSSG

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings: 0.00 ppm

Sampling site (State): New Jersey

Quick Connector required : No

| | | | | | |
|---|---|---|---|---|---|
| Canisters Shiped by: | Date/Time: 3/24/25 | Canisters Received by: | Date/Time: | | |
| Samples Relinquished by: | Date/Time: 3/26/25 0910 | Received by: | Date/Time: 3-26-25 @ 10 | | B2502051 - 29 |
| Relinquished by: | Date/Time: 3-26-25 1215 | Received by: | Date/Time: | | |

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

**Alliance Project No. :** _____

| | | | |
|---|---|---|---|
| Client Contact Information | Bottle Order ID : **B2502051** | Courier : | _____ of _____ COCs |
| Client ID : **WOOD06** Project ID : **NYCHHC Environmental Services** | | Sampler Name(s) : Clayton Hutton | Analysis / Matrix |
| Customer Name : **Woodard & Curran** | Project Manager : **Stephanie rogacki** | AIR ANALYSIS CHAIN-OF-CUSTODY | |
| Address : **800 Westchester Avenue, Suite N507 Suite N507** | Phone Number : **800-807-4080** | | |
| | Fax Number : **914-448-0147** | | |
| | Site Details: | Batch Certified | |
| City : **Rye Brook** | | | |
| State : **NY** | Analysis Turnaround Time | | |
| Zip Code : **10573** | Standard : **10 business days** **OR** | Data Package Type : | |
| Country : | Rush (Specify): _____ **Days** | EDD Type : | |

| Sample Identification | Sample Date(s) | Time Start (24 hr Clock) | Time Stop (24 hr Clock) | Can Vacuum in Field ("Hg) (Start) | Can Vacuum in Field ("Hg) (Stop)** | Interior Temp. (F) (Start) | Interior Temp. (F) (Stop) | Out going Can Pressure ("Hg)(Lab) | In coming Can Pressure ("Hg)(Lab) | Flow Reg. ID | Can ID | | Flow Controller Readout (ml/min) | Can Cert ID | TO-15 | | | Indoor/Ambinet Air | Soil Gas | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IA-BG-3 - 3/24/25 | 3/24/25 3/25/25 | 1722 | 1627 | -29 | -4.5 | 64 | 65 | -30 | -5.5 | 10232 ~~10713~~ | 10595 ~~10306~~ | 6 L | 4.16 | VL042052.D | X | | | X | | | |

| Temperature (Fahrenheit) | Ambient | Maximum | Minimum | |
|---|---|---|---|---|
| Start | 55 | 60 | 48 | |
| Stop | 60 | | | |

GC/MS Analyst Signature (TO-15): [signature]

| Pressure (Inches of Hg) | Ambient | Maximum | Minimum | |
|---|---|---|---|---|
| Start | 29.73 | | | |
| Stop | 29.93 | | | |

** Submittal of this COC indicates approval of the analysis based on existing conditions.

* Hold Pending SSSG

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings: 0.00 ppm

Sampling site (State): New Jersey

Quick Connector required : NO

| | | | |
|---|---|---|---|
| Canisters Shiped by: Sam | Date/Time: 03/24/25 | Canisters Received by: | Date/Time: |
| Samples Relinquished by: CAH | Date/Time: 3/26/25 0940 | Received by: | Date/Time: 3-26-25 0940 |
| Relinquished by: | Date/Time: 3-26-25 1215 | Received by: | Date/Time: |

B2502051 - 19

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

**Alliance Project No. :** _____

| | | | |
|---|---|---|---|
| Client Contact Information | Bottle Order ID : **B2502051** | Courier : | ____ of ____ COCs |
| Client ID : **WOOD06** Project ID : | **NYCHHC Environmental Services** | Sampler Name(s) : Clyde Hutton | Analysis / Matrix |
| Customer Name : **Woodard & Curran** | Project Manager : **Stephanie rogacki** | AIR ANALYSIS CHAIN-OF-CUSTODY | |
| Address : **800 Westchester Avenue, Suite N507 Suite N507** | Phone Number : **800-807-4080** | | |
| | Fax Number : **914-448-0147** | | |
| | Site Details: | Batch Certified | |
| City : **Rye Brook** | | | |
| State : **NY** | Analysis Turnaround Time | | |
| Zip Code : **10573** | Standard : **10 business days** **OR** | Data Package Type : | |
| Country : | Rush (Specify): _____ **Days** | EDD Type : | |

| Sample Identification | Sample Date(s) | Time Start (24 hr Clock) | Time Stop (24 hr Clock) | Can Vacuum in Field ("Hg) (Start) | Can Vacuum in Field ("Hg) (Stop)** | Interior Temp. (F) (Start) | Interior Temp. (F) (Stop) | Out going Can Pressure ("Hg)(Lab) | In coming Can Pressure ("Hg)(Lab) | Flow Reg. ID | Can ID | | Flow Controller Readout (ml/min) | Can Cert ID | TO-15 | | | Indoor/Ambinet Air | Soil Gas | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IA-B2-1-3/24/25 | 3/24/25 3/25/25 | 1607 | 1501 | -29 | -6.5 | 70 | 70 | -30 | -7.5 | 10183 ~~10476~~ | 10332 ~~10154~~ | 6 L | 4.16 | ~~VL041974.D~~ | X | | | X | | | |

| Temperature (Fahrenheit) | Ambient | Maximum | Minimum | |
|---|---|---|---|---|
| Start | 54° | 60° | 48° | |
| Stop | 60° | | | |

GC/MS Analyst Signature (TO-15)

| Pressure (Inches of Hg) | Ambient | Maximum | Minimum | |
|---|---|---|---|---|
| Start | 29.73 | | | |
| Stop | 29.93 | | | |

** Submittal of this COC indicates approval of the analysis based on existing conditions.

* Hold Pending SSSG

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings: 0.00 ppm

Sampling site (State): New Jersey

Quick Connector required : No

| | | | | | |
|---|---|---|---|---|---|
| Canisters Shiped by: Sam | Date/Time: 03/24/25 | Canisters Received by: | | Date/Time: | B2502051 - 4 |
| Samples Relinquished by: Clyde | Date/Time: 3/26/25 0910 | Received by: | | Date/Time: 3-26-25 0910 | |
| Relinquished by: | Date/Time: 3-26-25 1215 | Received by: | | Date/Time: | |

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

**Alliance Project No. :** _____

| | | | |
|---|---|---|---|
| Client Contact Information | Bottle Order ID : **B2502051** | Courier : | ____ of ____ COCs |
| Client ID : **WOOD06** Project ID : **NYCHHC Environmental Services** | | Sampler Name(s) : Clayton Nuttner | Analysis / Matrix |
| Customer Name : **Woodard & Curran** | Project Manager : **Stephanie rogacki** | AIR ANALYSIS CHAIN-OF-CUSTODY | |
| Address : **800 Westchester Avenue, Suite N507** **Suite N507** | Phone Number : **800-807-4080** | | |
| City : **Rye Brook** | Fax Number : **914-448-0147** | | |
| State : **NY** | Site Details: | Batch Certified | |
| Zip Code : **10573** | Analysis Turnaround Time | Data Package Type : | |
| Country : | Standard : **10 business days** **OR** | EDD Type : | |
| | Rush (Specify): _____ **Days** | | |

| Sample Identification | Sample Date(s) | Time Start (24 hr Clock) | Time Stop (24 hr Clock) | Can Vacuum in Field ("Hg) (Start) | Can Vacuum in Field ("Hg) (Stop)** | Interior Temp. (F) (Start) | Interior Temp. (F) (Stop) | Out going Can Pressure ("Hg)(Lab) | In coming Can Pressure ("Hg)(Lab) | Flow Reg. ID | Can ID | | Flow Controller Readout (ml/min) | Can Cert ID | TO-15 | | | | Indoor/Ambinet Air | Soil Gas | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IA-B2-4-3/24/25 | 3/24/25 3/25/25 | 1625 | 1507 | -30 | -5 | 70 | 70 | -30 | -7.1 | 10558 ~~40236~~ | 10306 ~~10332~~ | 6 L | 4.16 | VL042052.D | X | | | | X | | | |

| Temperature (Fahrenheit) | Ambient | Maximum | Minimum | |
|---|---|---|---|---|
| Start | 54 | 60 | 48 | |
| Stop | 60 | | | |

GC/MS Analyst Signature (TO-15)

| Pressure (Inches of Hg) | Ambient | Maximum | Minimum | |
|---|---|---|---|---|
| Start | 29.73 | | | |
| Stop | 29.93 | | | |

** Submittal of this COC indicates approval of the analysis based on existing conditions.

* Hold Pending 5886

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings: 0.0 ppm

Sampling site (State): New Jersey

Quick Connector required : NO

| | | | | | |
|---|---|---|---|---|---|
| Canisters Shiped by: Sum | Date/Time: 03/24/25 | Canisters Received by: | | Date/Time: | |
| Samples Relinquished by: COM | Date/Time: 3/26/25 0910 | Received by: | | Date/Time: 3-26-25 0910 | **B2502051 - 25** |
| Relinquished by: | Date/Time: 3-26-25 1215 | Received by: | | Date/Time: | |

**From:** Jill Tribley <jtribley@woodardcurran.com>
**Sent:** Friday, April 25, 2025 10:03 AM
**To:** Yazmeen Gomez
**Cc:** Stephanie Rogacki; Bryan Maurer
**Subject:** RE: Q1665 instructions for further analysis

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Thanks for the info Yazmeen, let's go ahead and analyze them even though the hold was up on some yesterday.

Jill D. Tribley, P.G.
412-535-0833
Woodard & Curran

**From:** Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>
**Sent:** Friday, April 25, 2025 10:01 AM
**To:** Jill Tribley <jtribley@woodardcurran.com>
**Cc:** Stephanie Rogacki <SRogacki@woodardcurran.com>; Bryan Maurer <bmaurer@woodardcurran.com>
**Subject:** RE: Q1665 instructions for further analysis

Good morning Jill,

Holding time is 30 days from the sampling date, so it would be up today (some yesterday). We can still run these if you need us to.

**Best Regards,**

**Yazmeen** Gomez
**Sr. Project Manager**
**An Alliance Technical Group Company**
**Main:** 908-789-8900
**Direct:** 908-728-3147
**Address:** 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com AST AEM AAS

**From:** Jill Tribley <jtribley@woodardcurran.com>
**Sent:** Friday, April 25, 2025 8:46 AM

**To:** Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>; Kiran Saleem <Kiran.Saleem@alliancetg.com>
**Cc:** Stephanie Rogacki <SRogacki@woodardcurran.com>; Bryan Maurer <bmaurer@woodardcurran.com>
**Subject:** Q1665 instructions for further analysis

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**Secured by Check Point**

Good morning Yameen, can we please get the remaining air samples from this SDG prepped for analysis and run for TO-15? Are we within a day or 2 of the hold time? Please see the pink highlights on the attached for which samples we are are requesting to be analyzed (it is basically, the rest of the samples in this group) and please reach out if you have any questions.
Thank you,
-Jill

**Jill D. Tribley, P.G.**
Technical Manager 2 | Principal

Woodard & Curran

412.535.0833 412.600.9893 woodardcurran.com
jtribley@woodardcurran.com
400 Penn Center Blvd., Suite 600, Pittsburgh, PA 15235

**From:** Bryan Maurer <bmaurer@woodardcurran.com>
**Sent:** Monday, April 14, 2025 10:36 AM
**To:** Jill Tribley; Yazmeen Gomez; Stephanie Rogacki; Kiran Saleem
**Cc:** Clayton Hefner
**Subject:** RE: Summary Report Details For Project US EPA Riverside Industrial Park Superfund Site-Q1725.

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Yazmeen, please keep the -14 and -17 samples on hold…do not discard at this time.
Bryan

Bryan Maurer
Woodard & Curran
770-679-2043 (direct)
412-600-2561 (cell)

**From:** Jill Tribley <jtribley@woodardcurran.com>
**Sent:** Monday, April 14, 2025 10:28 AM
**To:** Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>; Bryan Maurer <bmaurer@woodardcurran.com>; Stephanie Rogacki <SRogacki@woodardcurran.com>; Kiran Saleem <Kiran.Saleem@alliancetg.com>
**Cc:** Clayton Hefner <CHefner@woodardcurran.com>
**Subject:** RE: Summary Report Details For Project US EPA Riverside Industrial Park Superfund Site-Q1725.

The following HOLD sample can be analyzed:
Q1665-15, IA-B14-1-32425

The following two HOLD samples can be discarded:
Q1665-14, IA-B14-2-32425
Q1665-17, IA-B14-3-32425

Jill D. Tribley, P.G.
412-535-0833
Woodard & Curran

**From:** Jill Tribley
**Sent:** Friday, April 11, 2025 11:10 AM
**To:** Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>; CHEMTECH-Data@chemtech.net; Bryan Maurer <bmaurer@woodardcurran.com>; Stephanie Rogacki <SRogacki@woodardcurran.com>
**Cc:** Clayton Hefner <CHefner@woodardcurran.com>
**Subject:** RE: Summary Report Details For Project US EPA Riverside Industrial Park Superfund Site-Q1725.

Yes! They can be cleaned out, we won't need those.

Jill D. Tribley, P.G.
412-535-0833
Woodard & Curran

---

**From:** Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>
**Sent:** Friday, April 11, 2025 11:08 AM
**To:** Jill Tribley <jtribley@woodardcurran.com>; CHEMTECH-Data@chemtech.net; Bryan Maurer <bmaurer@woodardcurran.com>; Stephanie Rogacki <SRogacki@woodardcurran.com>
**Cc:** Clayton Hefner <CHefner@woodardcurran.com>
**Subject:** RE: Summary Report Details For Project US EPA Riverside Industrial Park Superfund Site-Q1725.

To clarify, did you want us to run those two samples, or they are OK to be cleaned out?

As for everything else, sounds good!

**Best Regards,**


**Yazmeen Gomez**
**Sr. Project Manager**
**An Alliance Technical Group Company**
**Main:** 908-789-8900
**Direct:** 908-728-3147
**Address:** 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com


---

**From:** Jill Tribley <jtribley@woodardcurran.com>
**Sent:** Friday, April 11, 2025 11:05 AM
**To:** Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>; Kiran Saleem <Kiran.Saleem@alliancetg.com>; CHEMTECH-Data@chemtech.net; Bryan Maurer <bmaurer@woodardcurran.com>; Stephanie Rogacki <SRogacki@woodardcurran.com>
**Cc:** Clayton Hefner <CHefner@woodardcurran.com>
**Subject:** RE: Summary Report Details For Project US EPA Riverside Industrial Park Superfund Site-Q1725.


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Hi Yazmeen, the following two summa cans can be removed from hold:

Q1665-02 (Sample ID IA-B16-1-32425)
Q1665-13 (Sample ID IA-B16-2-32425)

I am still awaiting instruction on B-14 samples (Q1665-14, -15, and -17) but will have an answer on that on Monday morning.

We are still in discussion on the B2 samples (Q1665-05, -12, -16, -20, -21, and -22). Hold time would be up on those 4/23/25, based on the sample date of 3/24/25, correct?

I believe this covers the remaining HOLD cans, but please correct me if I'm missing any.

Jill D. Tribley, P.G.
412-535-0833
Woodard & Curran

---

**From:** Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>
**Sent:** Friday, April 11, 2025 10:03 AM
**To:** Jill Tribley <jtribley@woodardcurran.com>; Kiran Saleem <Kiran.Saleem@alliancetg.com>; CHEMTECH-Data@chemtech.net; Bryan Maurer <bmaurer@woodardcurran.com>; Stephanie Rogacki <SRogacki@woodardcurran.com>
**Cc:** Clayton Hefner <CHefner@woodardcurran.com>
**Subject:** RE: Summary Report Details For Project US EPA Riverside Industrial Park Superfund Site-Q1725.

Good morning Jill,

Can we clean out the rest of the Summa Cans that aren't going to be activated? Or do you still need those on hold?

**Best Regards,**

**Yazmeen Gomez**
**Sr. Project Manager**
**An Alliance Technical Group Company**
**Main:** 908-789-8900
**Direct:** 908-728-3147
**Address:** 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

---

**From:** Jill Tribley <jtribley@woodardcurran.com>
**Sent:** Thursday, April 10, 2025 4:48 PM
**To:** Kiran Saleem <Kiran.Saleem@alliancetg.com>; CHEMTECH-Data@chemtech.net; Bryan Maurer <bmaurer@woodardcurran.com>; Stephanie Rogacki <SRogacki@woodardcurran.com>
**Cc:** Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>; Clayton Hefner <CHefner@woodardcurran.com>
**Subject:** RE: Summary Report Details For Project US EPA Riverside Industrial Park Superfund Site-Q1725.

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Hello Kiran, please analyze the samples from the attached SDGs:
Q1726 – all (Building 2 IA samples)
Q1668 – all (Building 1 IA samples)
Q1665 – Samples -03, -10, -11, and -18 (Building 10 samples) These are highlighted on the attached login summary; I sent previous instruction on this SDG earlier this week. These samples are in addition to the analysis we requested on 4/8.
Please reach out if you have any questions!

Jill D. Tribley, P.G.
412-535-0833
Woodard & Curran

---

**From:** Kiran Saleem <Kiran.Saleem@alliancetg.com>
**Sent:** Thursday, April 10, 2025 2:06 PM
**To:** CHEMTECH-Data@chemtech.net; Bryan Maurer <bmaurer@woodardcurran.com>; Jill Tribley <jtribley@woodardcurran.com>; Stephanie Rogacki <SRogacki@woodardcurran.com>
**Cc:** Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>
**Subject:** Re: Summary Report Details For Project US EPA Riverside Industrial Park Superfund Site-Q1725.

Good Afternoon Bryan,

Please review the results and let us know which samples you would want to activate from which are on hold.

*Thank you!*

**NOTE:** Chemtech is now an Alliance Technical Group company. Please add AllianceTG.com to your safe senders list to ensure receipt of important emails.

Regards,

**Kiran Saleem**
**Project Manager**
**Alliance Technical Group**
**Main:** 908-789-8900
**Direct:** 908-728-3148
**Address:** 284 Sheffield St, Ste 1, Mountainside, NJ 07092
**www.alliancetg.com**

---

**From:** CHEMTECH-Data@chemtech.net <CHEMTECH-Data@chemtech.net>
**Sent:** Thursday, April 10, 2025 1:26 PM
**To:** bmaurer@woodardcurran.com <bmaurer@woodardcurran.com>; jtribley@woodardcurran.com <jtribley@woodardcurran.com>; srogacki@woodardcurran.com <srogacki@woodardcurran.com>
**Subject:** Summary Report Details For Project US EPA Riverside Industrial Park Superfund Site-Q1725.

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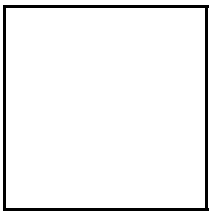

**To Bryan Maurer;**

**Please see the attached Summary Report for the following project, or download the file using your login credentials from the link below.**

| | |
|---|---|
| **Order ID** | : Q1725 |
| **Project ID** | : US EPA Riverside Industrial Park Superfund Site |
| **Download File** | : **https://chemtech.net/secureLogin.aspx** |
| **Order Date** | : 4/3/2025 1:48:00 PM |

| | |
|---|---|
| **CHEMTECH's Project Manager** | : YAZMEEN GOMEZ , YAZMEEN@CHEMTECH.NET , 908-357-0579 Ext :3149 |
| **CHEMTECH's Sales Executive** | : Jordan Hedvat , jordan@chemtech.net , 908-728-3144 Ext : |

Thank you for the opportunity to provide you with our services. For any questions please feel free to contact your project manager.

Click Here for our short online customer Survey **chemtech.net/ClientSurvey.aspx**.

**Thank you,**

**Alliance Technical Group LLC.**

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**From:** Yazmeen Gomez
**Sent:** Tuesday, April 08, 2025 1:33 PM
**To:** Jill Tribley; Bryan Maurer; Stephanie Rogacki
**Cc:** Clayton Hefner
**Subject:** RE: Edd Details For Project US EPA Riverside Industrial Park Superfund Site-Q1669.

Hi Jill,

No problem, Q1665 Samples - 01, 04, 06, 08, 09, and 20. Will be activated.

May I ask when you will know if you will need to run the remaining samples or not? Just so I can let the Air Lab know an estimate on how long these samples will be held.

**Best Regards,**

**Yazmeen Gomez**
**Sr. Project Manager**
**An Alliance Technical Group Company**
**Main:** 908-789-8900
**Direct:** 908-728-3147
**Address:** 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

**From:** Jill Tribley <jtribley@woodardcurran.com>
**Sent:** Tuesday, April 8, 2025 1:27 PM
**To:** Bryan Maurer <bmaurer@woodardcurran.com>; Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>; Stephanie Rogacki <SRogacki@woodardcurran.com>
**Cc:** Clayton Hefner <CHefner@woodardcurran.com>
**Subject:** RE: Edd Details For Project US EPA Riverside Industrial Park Superfund Site-Q1669.

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Hi Yazmeen, see attached marked up sample login for instructions, as well as below:
Please analyze the following samples from the Q1665 batch: -01, -04, -06, -08, -09, and -20.
I'm sorry we missed it before, but can you change the ID on sample -20 to: "IA-B9-3-32435"? (Not B4).
Thank you!
-Jill

Jill D. Tribley, P.G.
412-535-0833

**From:** Bryan Maurer <bmaurer@woodardcurran.com>
**Sent:** Tuesday, April 8, 2025 1:05 PM
**To:** Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>; Stephanie Rogacki <SRogacki@woodardcurran.com>; Jill Tribley <jtribley@woodardcurran.com>
**Subject:** RE: Edd Details For Project US EPA Riverside Industrial Park Superfund Site-Q1669.

Sorry Yazmeen, I meant to sent this to Jill, not you.
Jill, please see below and let Yazmeen know what we want to run.
Bryan

Bryan Maurer
Woodard & Curran
770-679-2043 (direct)
412-600-2561 (cell)

**From:** Bryan Maurer
**Sent:** Tuesday, April 8, 2025 1:04 PM
**To:** Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>; Stephanie Rogacki <SRogacki@woodardcurran.com>
**Subject:** RE: Edd Details For Project US EPA Riverside Industrial Park Superfund Site-Q1669.

Jill,
Let's go ahead and run the next set of Bldg 9 samples. Keep the Bldg 16 samples on hold for now.
Bryan

Bryan Maurer
Woodard & Curran
770-679-2043 (direct)
412-600-2561 (cell)

**From:** Jill Tribley <jtribley@woodardcurran.com>
**Sent:** Tuesday, April 8, 2025 12:26 PM
**To:** Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>; Bryan Maurer <bmaurer@woodardcurran.com>; Stephanie Rogacki <SRogacki@woodardcurran.com>
**Subject:** RE: Edd Details For Project US EPA Riverside Industrial Park Superfund Site-Q1669.

We are awaiting client buy-in to our recommendations. As soon as we hear back, we will let you know.

Jill D. Tribley, P.G.
412-535-0833

**From:** Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>
**Sent:** Tuesday, April 8, 2025 11:55 AM
**To:** Bryan Maurer <bmaurer@woodardcurran.com>; Jill Tribley <jtribley@woodardcurran.com>; Stephanie Rogacki <SRogacki@woodardcurran.com>
**Subject:** RE: Edd Details For Project US EPA Riverside Industrial Park Superfund Site-Q1669.

Please let me know if you will need to activate or disregard samples based off results.

Thank you!

**Best Regards,**

**Yazmeen Gomez**
**Sr. Project Manager**
**An Alliance Technical Group Company**
**Main:** 908-789-8900
**Direct:** 908-728-3147
**Address:** 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

---

**From:** CHEMTECH-Data@chemtech.net <CHEMTECH-Data@chemtech.net>
**Sent:** Tuesday, April 8, 2025 11:39 AM
**To:** bmaurer@woodardcurran.com; jtribley@woodardcurran.com; srogacki@woodardcurran.com
**Subject:** Edd Details For Project US EPA Riverside Industrial Park Superfund Site-Q1669.

**To Bryan Maurer;**

**Please see the attached EDD for the following project, or download the file using your login credentials from the link below.**

| | |
|---|---|
| **Order ID** | : Q1669 |
| **Project ID** | : US EPA Riverside Industrial Park Superfund Site |
| **Download File** | : **https://chemtech.net/secureLogin.aspx** |
| **Order Date** | : 3/27/2025 2:02:00 PM |
| **CHEMTECH's Project Manager** | : YAZMEEN GOMEZ , YAZMEEN@CHEMTECH.NET , 908-357-0579 Ext :3149 |
| **CHEMTECH's Sales Executive** | : Jordan Hedvat , jordan@chemtech.net , 908-728-3144 Ext : |

Thank you for the opportunity to provide you with our services. For any questions please feel free to contact your project manager.

Click Here for our short online customer Survey **chemtech.net/ClientSurvey.aspx**.

**Thank you,**

**Alliance Technical Group LLC.**

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**From:** Stephanie Rogacki <SRogacki@woodardcurran.com>
**Sent:** Thursday, March 27, 2025 5:08 PM
**To:** Yazmeen Gomez; Jill Tribley; Jordan Hedvat
**Cc:** Bryan Maurer; Kiran Saleem
**Subject:** Re: Sample Updates Request

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Very understandable, let's avoid the system crashes and report as is. Thank you!

Best regards,
Steph

**Stephanie Rogacki, MS, CSM**
Environmental Scientist 3| she/her

Woodard & Curran

914.460.5641 201.774.0238 woodardcurran.com

srogacki@woodardcurran.com

800 Westchester Avenue, Suite N507, Rye Brook, NY 10573

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**********

**From:** Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>
**Sent:** Thursday, March 27, 2025 5:02 PM
**To:** Stephanie Rogacki <SRogacki@woodardcurran.com>; Jill Tribley <jtribley@woodardcurran.com>; Jordan Hedvat <Jordan.Hedvat@AllianceTG.com>

**Cc:** Bryan Maurer <bmaurer@woodardcurran.com>; Kiran Saleem <Kiran.Saleem@alliancetg.com>
**Subject:** RE: Sample Updates Request

We try to avoid certain characters in project names and sample IDs because it causes the system to crash or cause errors sometimes.
I can use "-" but "/" will likely cause an issue once QA/QC try's to upload the data.

**Best Regards,**

**Yazmeen Gomez**
**Sr. Project Manager**
**An Alliance Technical Group Company**
**Main:** 908-789-8900
**Direct:** 908-728-3147
**Address:** 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

---

**From:** Stephanie Rogacki <SRogacki@woodardcurran.com>
**Sent:** Thursday, March 27, 2025 5:00 PM
**To:** Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>; Jill Tribley <jtribley@woodardcurran.com>; Jordan Hedvat <Jordan.Hedvat@AllianceTG.com>
**Cc:** Bryan Maurer <bmaurer@woodardcurran.com>; Kiran Saleem <Kiran.Saleem@alliancetg.com>
**Subject:** Re: Sample Updates Request

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**Secured by Check Point**

Confirmed.
And does the system not allow for the format with the following: IA-B9-3-3/24/2025 with the slashes or can the report/EDD still detail the sample IDs like this?

Best regards,
Steph

**Stephanie Rogacki, MS, CSM**
Environmental Scientist 3| she/her

914.460.5641 201.774.0238 woodardcurran.com

srogacki@woodardcurran.com

800 Westchester Avenue, Suite N507, Rye Brook, NY 10573

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**********

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**From:** Yazmeen Gomez
**Sent:** Thursday, March 27, 2025 4:57 PM
**To:** Jill Tribley; Stephanie Rogacki; Jordan Hedvat
**Cc:** Bryan Maurer
**Subject:** RE: Sample Updates Request

Its B-9 in our system – for some reason its not changing on the login summary. Please see attached.

**Best Regards,**

**Yazmeen Gomez**
**Sr. Project Manager**
**An Alliance Technical Group Company**
**Main:** 908-789-8900
**Direct:** 908-728-3147
**Address:** 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

---

**From:** Jill Tribley <jtribley@woodardcurran.com>
**Sent:** Thursday, March 27, 2025 4:52 PM
**To:** Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>; Stephanie Rogacki <SRogacki@woodardcurran.com>; Jordan Hedvat <Jordan.Hedvat@AllianceTG.com>
**Cc:** Bryan Maurer <bmaurer@woodardcurran.com>
**Subject:** RE: Sample Updates Request

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Thank you! I still see Q1665-20 listed with B4, full corrected sample ID should be IA-B9-3-3242025

Jill D. Tribley, P.G.
412-535-0833
Woodard & Curran

**From:** Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>
**Sent:** Thursday, March 27, 2025 4:49 PM
**To:** Stephanie Rogacki <SRogacki@woodardcurran.com>; Jordan Hedvat <Jordan.Hedvat@AllianceTG.com>
**Cc:** Jill Tribley <jtribley@woodardcurran.com>; Bryan Maurer <bmaurer@woodardcurran.com>
**Subject:** RE: Sample Updates Request

Stephanie,

Just resent all of the updated login summaries.

**Best Regards,**

**Yazmeen Gomez**
**Sr. Project Manager**
**An Alliance Technical Group Company**
**Main:** 908-789-8900
**Direct:** 908-728-3147
**Address:** 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

**From:** Stephanie Rogacki <SRogacki@woodardcurran.com>
**Sent:** Thursday, March 27, 2025 4:34 PM
**To:** Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>; Jordan Hedvat <Jordan.Hedvat@alliancetg.com>
**Cc:** Jill Tribley <jtribley@woodardcurran.com>; Bryan Maurer <bmaurer@woodardcurran.com>
**Subject:** Fw: Sample Updates Request

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Secured by Check Point

Correction below in red (should have been Q1669 not Q1665) and also:
Please correct B4 to B9 in Q1665-20 from group Q1665.

Best regards,

Steph

**Stephanie Rogacki, MS, CSM**
Environmental Scientist 3| she/her

Woodard & Curran

914.460.5641 201.774.0238 woodardcurran.com

srogacki@woodardcurran.com

800 Westchester Avenue, Suite N507, Rye Brook, NY 10573

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**********

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**From:** Stephanie Rogacki
**Sent:** Thursday, March 27, 2025 4:27 PM
**To:** Yazmeen Gomez; Jill Tribley; Jordan Hedvat
**Cc:** Bryan Maurer; Clayton Hefner; Kiran Saleem
**Subject:** Re: Sample Updates Request

Hi Yazmeen,

A couple more things:

- Please use the "mm/dd/yyyy" format for all sample IDs.
- Please change the 2 digit year to the 4 digit year. For instance, where it was documented on the COC, as "3/25/25" please change these to "3/25/2025"

**Q1669**:

- AA-1-3/25/25 should be AA-2-3/25/2025
- AA-1-3/26/25 should be AA-3-3/25/2025

Could you confirm the reporting compound list is the same as the list attached for LLTO-15?

Also could you make sure to include me on distributions from this email: Data-EWR@alliancetg.com

Thank you!

Best regards,
Steph

**Stephanie Rogacki, MS, CSM**
Environmental Scientist 3| she/her

Woodard & Curran

914.460.5641 201.774.0238 woodardcurran.com

srogacki@woodardcurran.com

800 Westchester Avenue, Suite N507, Rye Brook, NY 10573

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**********

---

**From:** Stephanie Rogacki
**Sent:** Thursday, March 27, 2025 3:10 PM
**To:** Yazmeen Gomez; Jill Tribley; Jordan Hedvat
**Cc:** Bryan Maurer; Clayton Hefner; Kiran Saleem
**Subject:** Re: Sample Updates Request

Hi Yazmeen,

I am answering on Jill's behalf. Thank you for checking with us.

Please analyze all samples listed in Q1669.

Additionally, please change AA-1-3/26/25 ID to AA-2-3/26/25; please also analyze this.

Best regards,

Steph

**Stephanie Rogacki, MS, CSM**
Environmental Scientist 3| she/her

Woodard & Curran

914.460.5641 201.774.0238 woodardcurran.com

srogacki@woodardcurran.com

800 Westchester Avenue, Suite N507, Rye Brook, NY 10573

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**********

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**From:** Yazmeen Gomez
**Sent:** Thursday, March 27, 2025 2:29 PM
**To:** Jill Tribley; Stephanie Rogacki; Jordan Hedvat
**Cc:** Bryan Maurer; Clayton Hefner; Kiran Saleem
**Subject:** RE: Sample Updates Request

Jill,

Please see attached – just confirming Q1668 are all on hold per COC and Q1669 are OK to analyze (no mention of hold on COC).

There is a few of Indoor and two Ambient air samples that don't mention a hold that I've logged into Q1669. Let me know if any of those need to be on hold.

**Best Regards,**

**Yazmeen Gomez**
**Sr. Project Manager**
**An Alliance Technical Group Company**
**Main:** 908-789-8900
**Direct:** 908-728-3147
**Address:** 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

**From:** Jill Tribley <jtribley@woodardcurran.com>
**Sent:** Thursday, March 27, 2025 1:28 PM
**To:** Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>; Stephanie Rogacki <SRogacki@woodardcurran.com>; Jordan Hedvat <Jordan.Hedvat@AllianceTG.com>
**Cc:** Bryan Maurer <bmaurer@woodardcurran.com>; Clayton Hefner <CHefner@woodardcurran.com>; Kiran Saleem <Kiran.Saleem@alliancetg.com>
**Subject:** RE: Sample Updates Request

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Secured by Check Point

Hi Yazmeen, this will be standard TAT.

Jill D. Tribley, P.G.
412-535-0833
Woodard & Curran

**From:** Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>
**Sent:** Thursday, March 27, 2025 1:14 PM
**To:** Jill Tribley <jtribley@woodardcurran.com>; Stephanie Rogacki <SRogacki@woodardcurran.com>; Jordan Hedvat <Jordan.Hedvat@AllianceTG.com>
**Cc:** Bryan Maurer <bmaurer@woodardcurran.com>; Clayton Hefner <CHefner@woodardcurran.com>; Kiran Saleem <Kiran.Saleem@alliancetg.com>
**Subject:** RE: Sample Updates Request

Jill,

Can you confirm the TAT? The lab wants to know if you need anything expediated for Tuesday or Wednesday results?

**Best Regards,**

**Yazmeen Gomez**
**Sr. Project Manager**
**An Alliance Technical Group Company**
**Main:** 908-789-8900
**Direct:** 908-728-3147
**Address:** 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

**From:** Jill Tribley <jtribley@woodardcurran.com>
**Sent:** Thursday, March 27, 2025 12:15 PM
**To:** Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>; Stephanie Rogacki <SRogacki@woodardcurran.com>; Jordan Hedvat <Jordan.Hedvat@AllianceTG.com>
**Cc:** Bryan Maurer <bmaurer@woodardcurran.com>; Clayton Hefner <CHefner@woodardcurran.com>; Kiran Saleem <Kiran.Saleem@alliancetg.com>
**Subject:** RE: Sample Updates Request

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Hello Yazmeen and Kiran,
I have the info for the (14) 6L Summas we need on Monday:

(5) 6L Summa canisters with regulators for a 24-hour sampling period
(4) 6L Summa canisters with 100 ml/min regulators
(3) 6L Summa canisters with 200 ml/min regulators
(2) 6L Summa canisters with 70 ml/min regulators

One of our folks can pick these up at 11 am at the lab.
We will be submitting these samples mid-next week.
A batch of samples and the unused 1.4 L canisters will be dropped off at the lab this afternoon.
Please confirm you can still accommodate this.
Thank you!
-Jill

Jill D. Tribley, P.G.
412-535-0833
Woodard & Curran

**From:** Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>
**Sent:** Wednesday, March 26, 2025 1:21 PM
**To:** Jill Tribley <jtribley@woodardcurran.com>; Stephanie Rogacki <SRogacki@woodardcurran.com>; Jordan Hedvat <Jordan.Hedvat@AllianceTG.com>
**Cc:** Bryan Maurer <bmaurer@woodardcurran.com>; Clayton Hefner <CHefner@woodardcurran.com>; Kiran Saleem

<Kiran.Saleem@alliancetg.com>
**Subject:** RE: Sample Updates Request

Jill,

I spoke with Mohammad he mentioned we can provide 14 Cans on Friday – if you wanted them all to be 200ml/min or to switch them up?

Also, for the sampling team – each Summa Can belongs to a specific Chain of Custody. Looks like the sampler was just crossing out things on our COC instead of keeping the coordinated Chain and Summa Can together which causes confusion in the lab. If you can just have the samplers keep the Chain and related Summa Can together, the same way they are packages when delivered.

**Best Regards,**

**Yazmeen Gomez**
**Sr. Project Manager**
**An Alliance Technical Group Company**
**Main:** 908-789-8900
**Direct:** 908-728-3147
**Address:** 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

---

**From:** Jill Tribley <jtribley@woodardcurran.com>
**Sent:** Wednesday, March 26, 2025 12:49 PM
**To:** Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>; Stephanie Rogacki <SRogacki@woodardcurran.com>; Jordan Hedvat <Jordan.Hedvat@AllianceTG.com>
**Cc:** Bryan Maurer <bmaurer@woodardcurran.com>; Clayton Hefner <CHefner@woodardcurran.com>
**Subject:** RE: Sample Updates Request

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Hi Yazmeen,
Can we get another pickup mid day tomorrow? Would you be able to bring the 24 hour IA and AA canisters at that time?

The canisters and associated regulators are for 1.4 liter canisters. We requested and require 6 liter canisters for this project. When can you get the correct canisters and regulators on site?

Jill D. Tribley, P.G.
412-535-0833

**From:** Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>
**Sent:** Wednesday, March 26, 2025 12:01 PM
**To:** Stephanie Rogacki <SRogacki@woodardcurran.com>; Jordan Hedvat <Jordan.Hedvat@AllianceTG.com>
**Cc:** Jill Tribley <jtribley@woodardcurran.com>; Bryan Maurer <bmaurer@woodardcurran.com>
**Subject:** RE: Sample Updates Request

Hi Stephanie,

Please see below responses in RED.

**Best Regards,**

**Yazmeen Gomez**
**Sr. Project Manager**
**An Alliance Technical Group Company**
**Main:** 908-789-8900
**Direct:** 908-728-3147
**Address:** 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

**From:** Stephanie Rogacki <SRogacki@woodardcurran.com>
**Sent:** Wednesday, March 26, 2025 11:54 AM
**To:** Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>; Jordan Hedvat <Jordan.Hedvat@alliancetg.com>
**Cc:** Jill Tribley <jtribley@woodardcurran.com>; Bryan Maurer <bmaurer@woodardcurran.com>
**Subject:** Sample Updates Request

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Secured by Check Point

Hi Yazmeen/Jordan,

1. When is the next pickup / drop off scheduled for? We currently do not have another pick up / drop off scheduled after today. Last we spoke you mentioned you weren't sure if you'd need additional cans. And you'd reach out once you've coordinated with the field teams to schedule the pickups.
2. We will need 7 more 24 hour samples - 6 IA and 1 AA When do you need these by?
3. The name of this project is Riverside Superfund Site not "NYCHHC Environmental Services" Noted
4. The PM for this project is Bryan Maurer not me. He is copied here. Please update him for project notes. Noted
5. Please copy both Bryan and Jill (copied) on results and acknowledgments, and all other correspondence regarding this project. Noted

Best regards,
Steph

**Stephanie Rogacki, MS, CSM**
Environmental Scientist 3| she/her

Woodard & Curran

914.460.5641 201.774.0238 woodardcurran.com

srogacki@woodardcurran.com

800 Westchester Avenue, Suite N507, Rye Brook, NY 10573

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**********

284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

# Laboratory Certification

| Certified By | License No. |
|---|---|
| | |
| CAS EPA CLP Contract | 68HERH20D0011 |
| | |
| Connecticut | PH-0830 |
| | |
| DOD ELAP (ANAB) | L2219 |
| | |
| Maine | 2024021 |
| | |
| Maryland | 296 |
| | |
| New Hampshire | 255424 Rev 1 |
| | |
| New Jersey | 20012 |
| | |
| New York | 11376 |
| | |
| Pennsylvania | 68-00548 |
| | |
| Soil Permit | 525-24-234-08441 |
| | |
| Texas | T104704488 |

# New Jersey Department of Environmental Protection



## Internal Chain of Custody

**Instructions:** Use 1 form for each 20 samples of aliquot

**Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample**

Laboratory: Chemtech
NAEB:
Field Sample Seal No. Q1665
Case No.: US EPA Riverside Industria

Location: 284 Sheffield Street, Mountainside,NJ 7092
Title: Sample Custodian
Date Broken 3/26/2025
Analytical Parameter/Fraction TO-15
Military Time Seal Broken: 09:10:00

| Sample No. | Aliquot/Extract No. | Sample No. | Aliquot/Extract No. |
|---|---|---|---|
| Q1665-01 | AA-DUP-1-32425 | Q1665-11 | IA-B10-1-32425 |
| ~~Q1665-02~~ | ~~IA-B10-1-32425~~ | Q1665-12 | IA-B2-6-32425 |
| Q1665-03 | IA-B10-2-32425 | ~~Q1665-13~~ | ~~IA-B10-2-32425~~ |
| Q1665-04 | AA-1-32425 | ~~Q1665-14~~ | ~~IA-B14-2-32425~~ |
| Q1665-05 | IA-B2-3-32425 | Q1665-15 | IA-B14-1-32425 |
| Q1665-06 | IA-B9-1-32425 | Q1665-16 | IA-B2-5-32425 |
| Q1665-07 | IA-DUP-1-32425 | ~~Q1665-17~~ | ~~IA-B14-3-32425~~ |
| Q1665-08 | IA-DUP-2-32425 | Q1665-18 | IA-B10-3-32425 |
| Q1665-09 | IA-B9-2-32425 | Q1665-19 | IA-B2-2-32425 |
| Q1665-10 | IA-B10-4-32425 | Q1665-20 | IA-B4-3-32425 |
| | | Q1665-21 | IA-B2-1-32420 25 |
| | | Q1665-22 | IA-B2-4-32420 25 |

| Date | Time | Relinquished By | Received By | Purpose of Change of Custody |
|---|---|---|---|---|
| 3-27-25 | 12:40 | Signature | Signature | |
| | | Printed Name Cassandra Pena | Printed Name Consultmyas Agent | |
| | | Signature | Signature | |
| | | Printed Name | Printed Name | |
| | | Signature | Signature | |
| | | Printed Name | Printed Name | |
| | | Signature | Signature | |
| | | Printed Name | Printed Name | |
| | | Signature | Signature | |
| | | Printed Name | Printed Name | |
| | | Signature | Signature | |
| | | Printed Name | Printed Name | |
| | | Signature | Signature | |
| | | Printed Name | Printed Name | |
| | | Signature | Signature | |
| | | Printed Name | Printed Name | |

*Distribution: White - Original (Sent With Report)* *Yellow - Contractor Archive* *Pink - Sample Custodian - Interim Copy*

**CHEMTECH** 284 Sheffield Street Mountainside, NJ 07092

# AIR SAMPLE PRESSURE & DILUTION LOGBOOK

Analyst Signature: _____ Supervisor Signature: _____

METHOD: TO-15 Pressure Gauge ID: AZ55971

| Date | Sample Number | Canister # | Initial Pressure psia | Initial Pressure Hg | Final Pressure psia | Final Pressure Hg | Dilution Factor | Comment |
|---|---|---|---|---|---|---|---|---|
| 03/26/25 | Q1665-01 | 10323 | 10.4 | -8.8 | | | | |
| | Q1665-02 | 10443 | 13.0 | -3.5 | | | | |
| | Q1665-03 | 10154 | 10.6 | -8.4 | | | | |
| | Q1665-04 | 10268 | 11.2 | -7.1 | | | | |
| | Q1665-05 | 10281 | 10.8 | -8.0 | | | | |
| | Q1665-06 | 10198 | 8.8 | -12.0 | | | | |
| | Q1665-07 | 10592 | 11.4 | -6.7 | | | | |
| | Q1665-08 | 10053 | 11.0 | -7.5 | | | | |
| | Q1665-09 | 10599 | 12.0 | -5.5 | | | | |
| | Q1665-10 | 10492 | 11.2 | -7.1 | | | | |
| | Q1665-11 | ~~10598~~ 10598 Sy | 11.6 | -6.3 | | | | |
| | Q1665-12 | 10271 | 8.0 | -13.7 | | | | |
| | Q1665-13 | 10315 | 13.8 | -1.8 | | | | |
| | Q1665-14 | 10275 | 11.2 | -7.1 | | | | |
| | Q1665-15 | 10266 | 11.6 | -6.3 | | | | |
| | Q1665-16 | 10608 | 10.8 | -8.0 | | | | |
| | Q1665-17 | 10294 | 11.4 | -6.7 | | | | |
| | Q1665-18 | 10297 | 10.4 | -8.0 | | | | |
| | Q1665-19 | 10331 | 10.8 | -8.0 | | | | |
| | Q1665-20 | 10595 | 12.0 | -5.5 | | | | |
| | Q1665-21 | 10332 | 11.0 | -7.5 | | | | |

# AIR SAMPLE PRESSURE & DILUTION LOGBOOK

Analyst Signature: _____ Supervisor Signature: _____

METHOD: TO-15 Pressure Gauge ID: AZ55971

| Date | Sample Number | Canister # | Initial Pressure psia | Initial Pressure Hg | Final Pressure psia | Final Pressure Hg | Dilution Factor | Comment |
|---|---|---|---|---|---|---|---|---|
| 03/25/25 | Q1665-22 | 10306 | 11.2 | -7.1 | | | | SV |
| 03/27/25 | Q1668-01 | 10588 | 11.8 | -5.9 | | | | |
| 03/27/25 | Q1668-02 | 10269 | 12.0 | -5.5 | | | | |
| ↓ | Q1668-03 | 10060 | 12.0 | -5.5 | | | | |
| ↓ | Q1668-04 | 10605 | 12.4 | -4.7 | | | | |
| 03/27/25 | Q1669-01 | 10311 | 11.0 | -7.5 | | | | |
| ↓ | Q1669-02 | 10283 | 11.8 | -5.9 | | | | |
| | Q1669-03 | 10320 | 11.6 | -6.3 | | | | |
| | Q1669-04 | 10267 | 12.4 | -4.7 | | | | |
| | Q1669-05 | 10607 | 13.0 | -3.5 | | | | |
| | Q1669-06 | 10606 | 13.8 | -1.8 | | | | |
| | Q1669-07 | 10445 | 10.8 | -8.0 | | | | |
| | Q1669-08 | 10282 | 11.2 | -7.1 | | | | |
| ↓ | Q1669-09 | 10285 | 11.6 | -6.3 | | | | |
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| | | | | | | | | |

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: AA-1-3/24/25
Client Name: Woodland Commons
Project Name: PPG Riverside
Date: 3/24/25 - 3/25/25 Time: 11:05 on 3/25/25
Analysis: To-15
Comments:
Storage Location: Air Lab
Sample: Q1665-04
Cust #: AA-1-32425
Date Received:
Date of Disposal:
B250205


CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: AA-Dup-3/24/25
Client Name: Woodland Commons
Project Name: PPG Riverside
Date: 3/24/25 - 3/25/25 Time: See # 11:05 on 3/25/25
Analysis: To-15
Comments:
Storage Location: Air Lab
Sample: Q1665-01
Cust #: AA-DUP-1-32425
Date Received:
B250205


CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: IA-B1-1-3/24/25
Client Name: Woodland Commons
Project Name: PPG Riverside
Date: 3/24/25 - 3/25/25 Time: 1618
Analysis: To-15
Comments:
Storage Location: Air Lab
Sample: Q1665-06
Cust #: IA-B9-1-32425
Date Received:
Date of Disposal:
B250205

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: IA-BP-2-3/24/25
Client Name: Wiggins & Curry
Project Name: PPG Riverside
Date: 3/24/25 Time: 1627 @ 3/25/25
Analysis: TO-15
Comments:
CHEMTECH'S
Date Received:
Disposal:
Storage Location: Air Lab
Sample: Q1665-20
Cust #: IA-B4-3-32425
B250205-1
10565
5.1


CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: IA-BP-2-3/24/25
Client Name: Wiggins & Curry
Project Name: PPG Riverside
Date: 3/24/25 Time: 1627 @ 3/25/25
Analysis: TO-15
Comments:
CHEMTECH'S
Date Received:
Disposal:
Storage Location: Air Lab
Sample: Q1665-09
Cust #: IA-B9-2-32425
B250205-1
10599
5.1


CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: IA-DUP-2-3/24/25
Client Name: Wiggins & Curry
Project Name: PPG Riverside
Date: 3/24/25 Time: 1618 @ 3/25/25
Analysis: TO-15
Comments:
CHEMTECH'S
Date Received:
Disposal:
Storage Location: Air Lab
Sample: Q1665-08
Cust #: IA-DUP-2-32425
B250205-1
10553
5.1

CHEMTECH

284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922

Client Sample ID #: IA-B10-1-3/24/25

Client Name: WLC

Project Name: Riverside

Date: 3/25/25 Time: 1212

Analysis: TO-15

Comments:

CHEMTECH'S SA

Date Received:

**Storage Location:** Air Lab
**Sample:** Q1665-11
**Cust #:** IA-B10-1-32425

B250205-1

CHEMTECH

284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922

Client Sample ID #: IA-B10-2-3/24/25

Client Name: WLC

Project Name: PPG Riverside

Date: 3/25/2025 Time: 1219

Analysis: TO-15

Comments:

CHEMTECH'S S

Date Received:

**Storage Location:** Air Lab
**Sample:** Q1665-03
**Cust #:** IA-B10-2-32425

B250205-2

CHEMTECH

284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922

Client Sample ID #: IA-B10-4-3/24/25

Client Name: WLC

Project Name: PPG Riverside

Date: 3/25/2025 Time: 1329

Analysis: TO-15

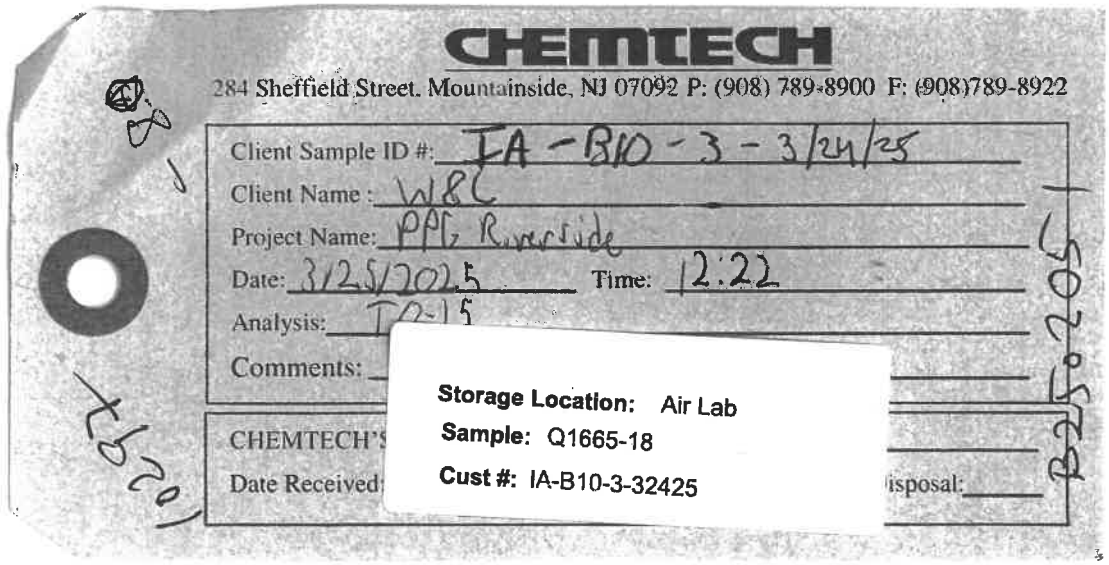
Comments:

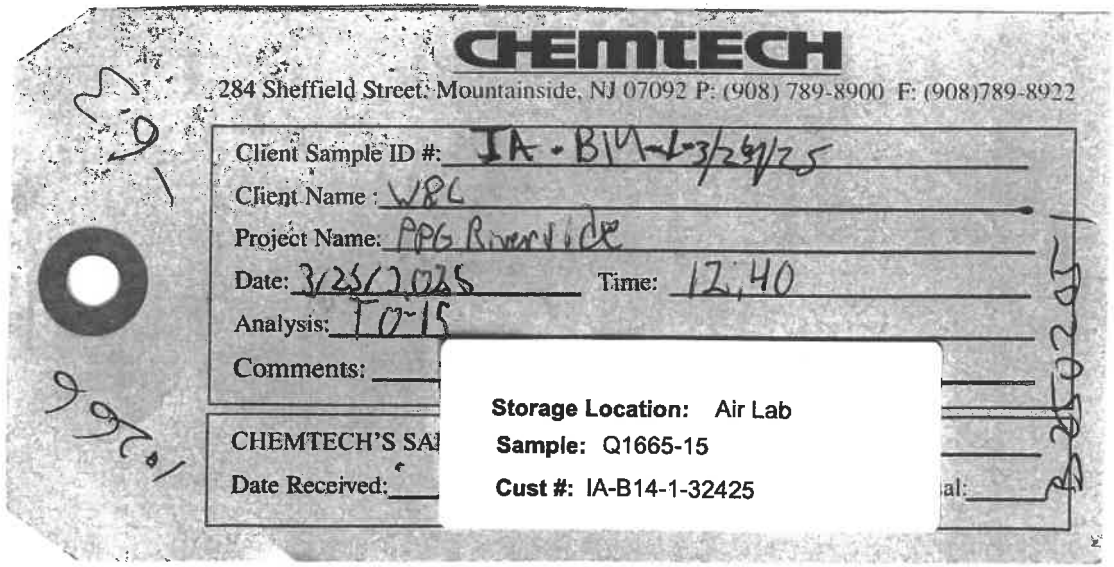
CHEMTECH'S SAM

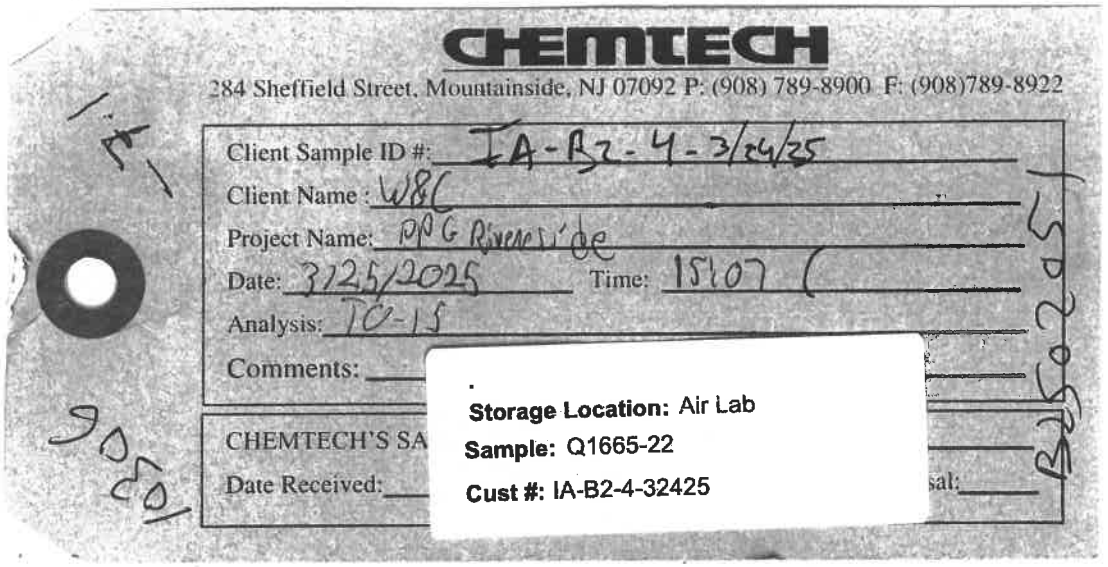
Date Received:

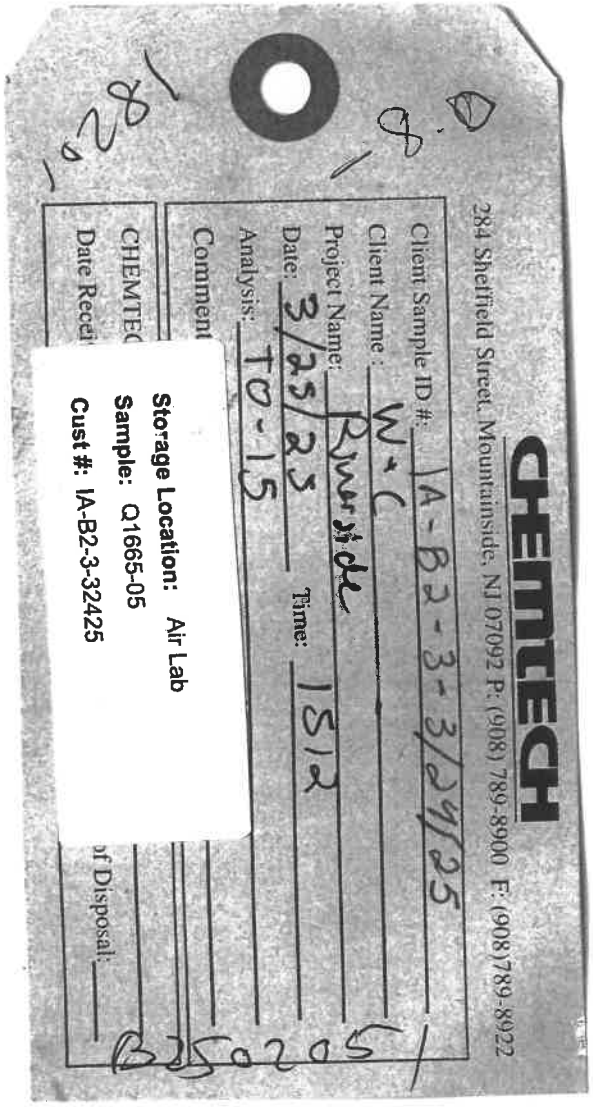
**Storage Location:** Air Lab
**Sample:** Q1665-10
**Cust #:** IA-B10-4-32425

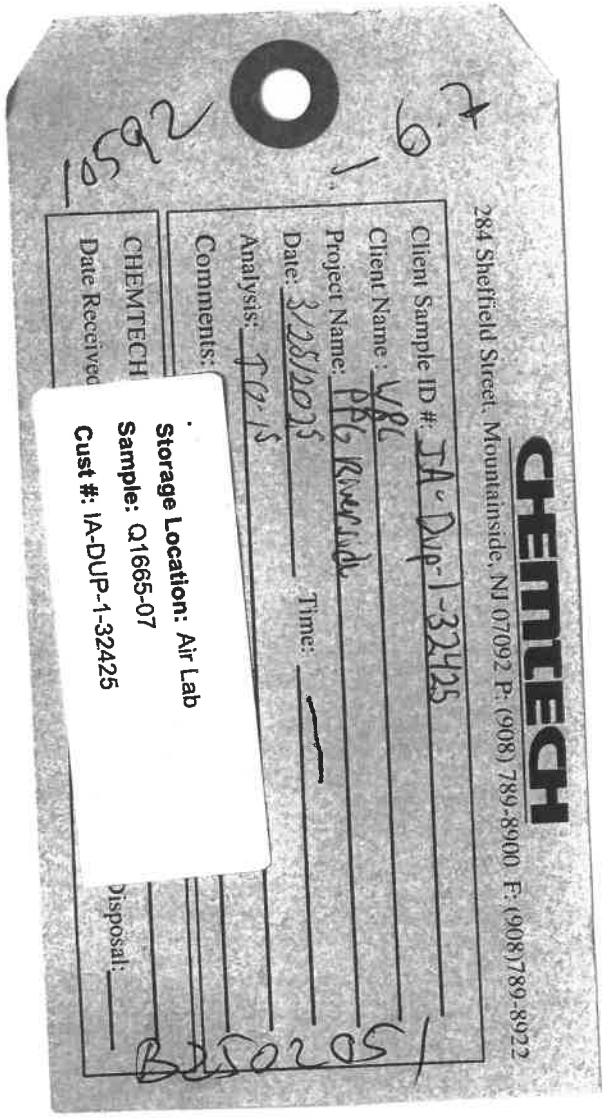
B250205-4

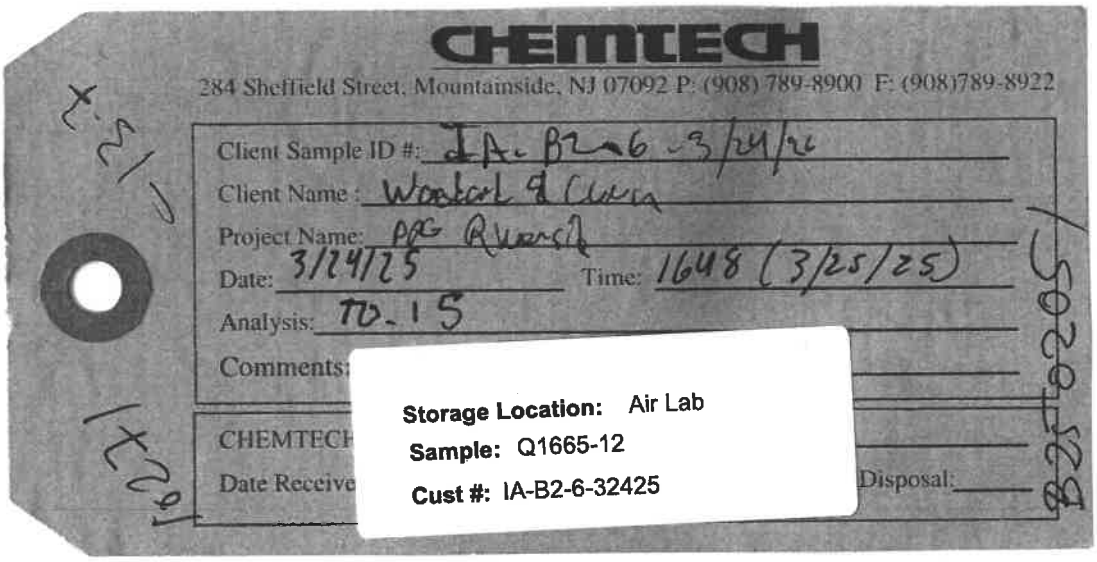

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: IA-B10-3-3/24/25
Client Name: WSP
Project Name: PPG Riverside
Date: 3/25/2025 Time: 12:22
Analysis: TO-15
Comments:
CHEMTECH'S
Date Received
isposal:
Storage Location: Air Lab
Sample: Q1665-18
Cust #: IA-B10-3-32425

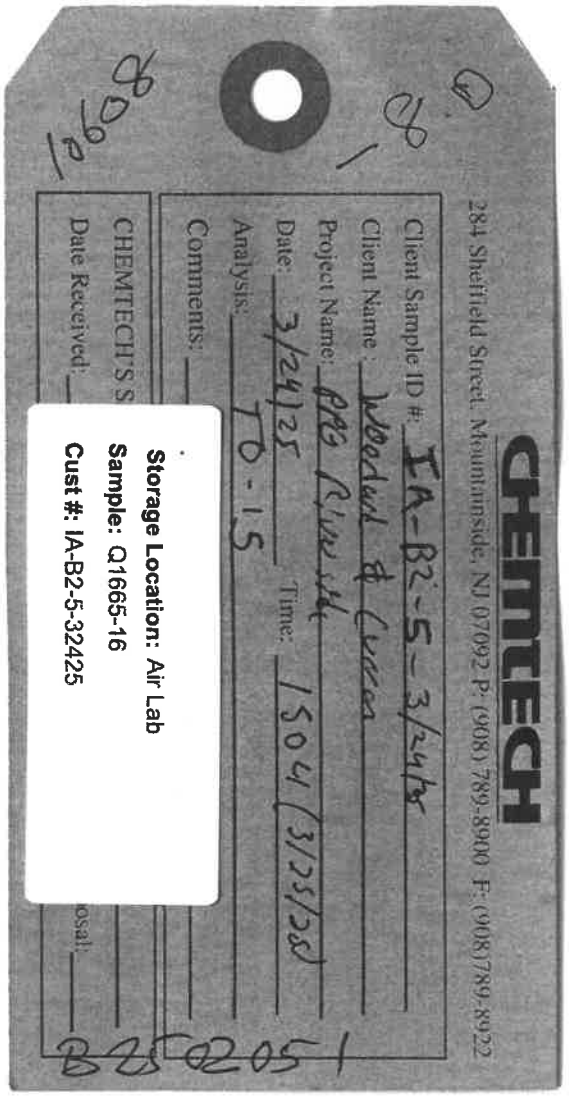

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: IA-B14-1-3/24/25
Client Name: WBC
Project Name: PPG Riverside
Date: 3/25/2025 Time: 12:40
Analysis: TO-15
Comments:
CHEMTECH'S SA
Date Received:
Storage Location: Air Lab
Sample: Q1665-15
Cust #: IA-B14-1-32425

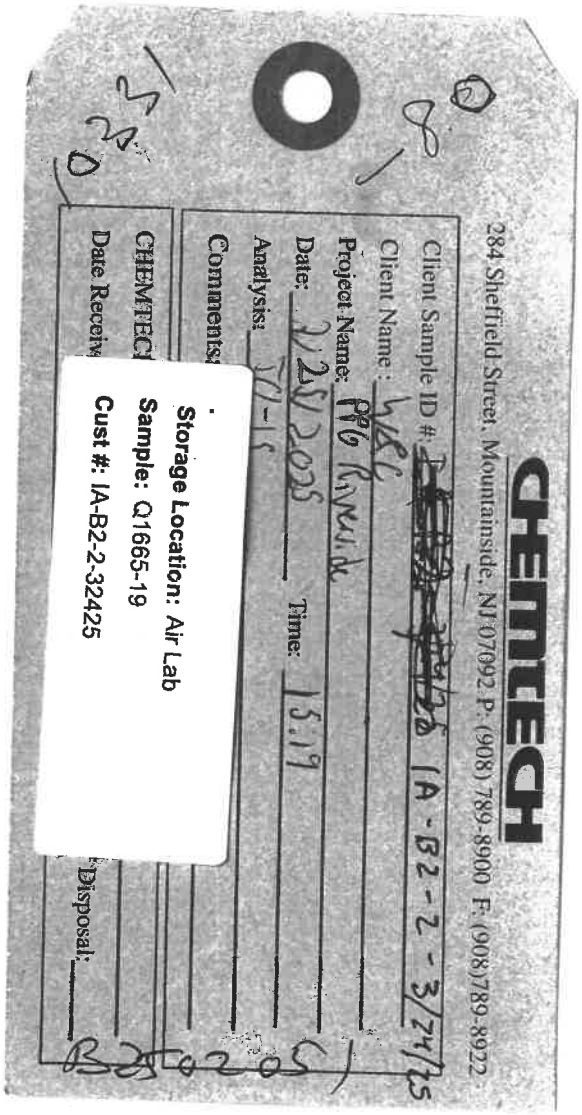

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: IA-B2-4-3/24/25
Client Name: W&C
Project Name: PPG Riverside
Date: 3/25/2025 Time: 15:07
Analysis: TO-15
Comments:
CHEMTECH'S SA
Date Received:
Storage Location: Air Lab
Sample: Q1665-22
Cust #: IA-B2-4-32425

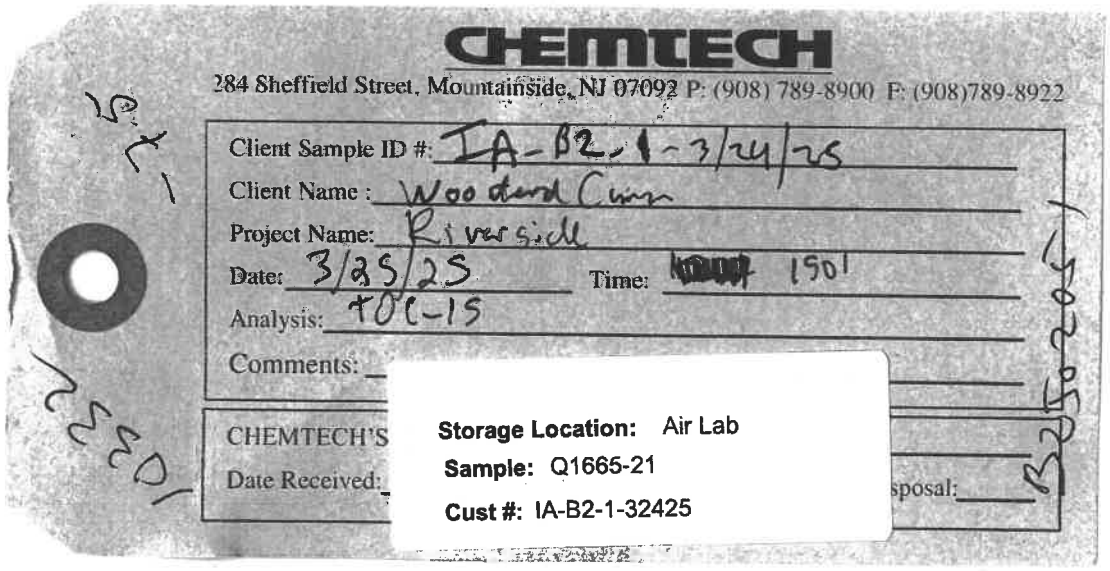

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: IA-B2-3-3/24/25
Client Name: W+C
Project Name: Riverside
Date: 3/25/25 Time: 1512
Analysis: TO-15
Comments:
CHEMTECH
Date Received:
Disposal:
Storage Location: Air Lab
Sample: Q1665-05
Cust #: IA-B2-3-32425


CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: IA-Dup-1-32425
Client Name: W+C
Project Name: PPG Riverside
Date: 3/25/2025 Time:
Analysis: TO-15
Comments:
CHEMTECH
Date Received:
Disposal:
Storage Location: Air Lab
Sample: Q1665-07
Cust #: IA-DUP-1-32425


CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: IA-B2-6-3/24/25
Client Name: Woodard & Curran
Project Name: PPG Riverside
Date: 3/24/25 Time: 1648 (3/25/25)
Analysis: TO-15
Comments:
CHEMTECH
Date Received:
Disposal:
Storage Location: Air Lab
Sample: Q1665-12
Cust #: IA-B2-6-32425


CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: IA-B2-5-3/24/25
Client Name: Woodard & Curran
Project Name: PPG Riverside
Date: 3/24/25 Time: 1504 (3/25/25)
Analysis: TO-15
Comments:
CHEMTECH'S
Date Received:
Disposal:
B250251
Storage Location: Air Lab
Sample: Q1665-16
Cust #: IA-B2-5-32425


CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: IA-B2-2-3/24/25
Client Name:
Project Name: PPG Riverside
Date: 3/25/2025 Time: 1519
Analysis: TO-15
Comments:
CHEMTECH
Date Receiv
Disposal:
B250251
Storage Location: Air Lab
Sample: Q1665-19
Cust #: IA-B2-2-32425


CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922
Client Sample ID #: IA-B2-1-3/24/25
Client Name: Woodard Curran
Project Name: Riverside
Date: 3/25/25 Time: 1501
Analysis: TO-15
Comments:
CHEMTECH'S
Date Received:
sposal:
B250251
Storage Location: Air Lab
Sample: Q1665-21
Cust #: IA-B2-1-32425

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# CASE NARRATIVE

**Woodard & Curran**
**Project Name: US EPA Riverside Industrial Park Superfund Site**
**Project # N/A**
**Chemtech Project # Q1665**
**Test Name: TO-15**

**A. Number of Samples and Date of Receipt:**
18 Air samples were received on 03/26/2025.

**B. Parameters**
According to the Chain of Custody document, the following analyses were requested: TO-15. This data package contains results for TO-15.

**C. Analytical Techniques:**
The analysis performed on instrument MSVOA_L were done using GC column RTX-1, which is 60 meters, 0.32 mm id, 1.0 um df, Restek Cat. #10157. The Trap was supplied by Entech, glass bead and Tenax , Entech 7100A Preconcentrator.The analysis of TO-15 was based on method TO-15.

**D. QA/ QC Samples:**
SamplesIA-B2-3-3242025,IA-DUP-1-3242025,IA-B2-6-3242025,IA-B2-5-3242025,IAB2-2-3242025,IA-B2-1-3242025 and IA-B2-4-3242025 Aalyzed out of holding time, Lab notified this issue to the client. See the communication in shipping Document section.

The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.

The RPD for {Q1665-01DUP} with File ID: VL042291.D met criteria except for m/p-Xylene[200%],due to difference in results of original and DUP.

The RPD for {Q1665-03DUP} with File ID: VL042318.D met criteria except for m/p-Xylene[200%],due to difference in results of original and DUP.

The Blank Spike for {VL0409ABS02} with File ID: VL042289.D met requirements for all samples except for Ethanol [45%],this compound did not meet the NJDKQP criteria and the in-house criteria.

The Blank Spike for {VL0411ABS01} with File ID: VL042314.D met requirements for all samples except for 1,1,2,2-Tetrachloroethane[132%], 1,2-Dichlorobenzene[132%],these compounds did not meet the NJDKQP criteria and the in-

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house criteria also it is failing high but no positive hit in associated samples therefore no corrective action taken.while Ethanol [42%] this compound did not meet the NJDKQP criteria and the in-house criteria.

The Blank Spike for {VL0415ABS01} with File ID: VL042328.D met requirements for all samples except for Methylene Chloride[67%], tert-Butyl Alcohol[68%],these compounds did not meet the NJDKQP criteria and the in-house criteria also it is failing low but only dilution samples analyzed under this Blank spike therefore no corrective action taken. while Ethanol [39%] this compound did not meet the NJDKQP criteria and the in-house criteria.

The Blank Spike for {VL0417ABS01} with File ID: VL042358.D met requirements for all samples except for Ethanol [32%],this compound did not meet the NJDKQP criteria and the in-house criteria

The Blank Spike for {VL0428ABS01} with File ID: VL042418.D met requirements for all samples except for Ethanol [30%],this compound did not meet the NJDKQP criteria and the in-house criteria

The Blank Spike for {VL0429ABS01} with File ID: VL042438.D met requirements for all samples except for Ethanol [29%],this compound did not meet the NJDKQP criteria and the in-house criteria

The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration with dated 03/27/2025 with L Instrument met the requirements except for Ethanol.

The Initial Calibration with dated 04/17/2025 with L Instrument met the requirements except for Ethanol.

The Continuous Calibration File ID VL042286.D met the requirements except for Ethanol.

The Continuous Calibration File ID VL042312.D met the requirements except for Ethanol.

The Continuous Calibration File ID VL042326.D met the requirements except for Methylene Chloride and tert-Butyl alcohol are failing low but only dilution samples analyzed under this Continuous Calibration therefore no corrective action taken.While Ethanol did not met the requirements.

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The Continuous Calibration File ID VL042416.D met the requirements except for Ethanol.

The Continuous Calibration File ID VL042436.D met the requirements except for Ethanol.

The Tuning criteria met requirements.

Samples IA-B10-2-3242025, IA-DUP-1-3242025, IA-B10-4-3242025, IA-B10-4-3242025DL, IA-B10-1-3242025, IA-B14-1-3242025, IA-B10-3-3242025, IA-B2-2-3242025 and IA-B2-1-3242025 were diluted due to high concentrations.

**E. Additional Comments:**
This data Package has been revised to include Parameter Bromoethene, Ethanol and isopropyl alcohol.
This data Package has been revised to include DUP raw data.
The not QT review data is reported in the Miscellaneous.
The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

The Sample #AA-DUP-1-3242025,IA-B10-2-3242025,AA-1-3242025, IA-B9-1-3242025, IA-DUP-2-3242025,IA-B9-2-3242025 ,IA-B10-4-3242025, IA-B10-1-3242025,IA-B2-6-3242025,IA-B14-1-3242025,IA-B14-1-3242025DL,IAB10-3-3242025, IA-DUP-1- 3242025DL, IA-B2-2-3242025DL and IAB2-1-3242025DL have the concentration of target compound belowMethod detection limits, therefore it is not reported as Hit in Form1.

The Manual Integrations are performed for the followings.

| Manual Integration Report | | | |
|---|---|---|---|
| Sequence | VL032725 | Instrument | MSVOA_I |

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDICCC010 | VL042172.D | m/p-Xylene | SAM | 3/31/2025 11:24:55 AM | MMDadoda | 4/3/2025 8:05:09 AM | Peak Integrated by Software incorrectly |
| VSTDICC002 | VL042173.D | 1,4-Dioxane | SAM | 3/31/2025 11:25:0 | MMDadoda | 4/3/2025 8:05:13 | Peak Integrated by |

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | 0 AM | | AM | Software incorrectly |
| VSTDICC002 | VL042173.D | Ethanol | SAM | 3/31/2025 11:25:00 AM | MMDadoda | 4/3/2025 8:05:13 AM | Peak Integrated by Software incorrectly |
| VSTDICC002 | VL042173.D | m/p-Xylene | SAM | 3/31/2025 11:25:00 AM | MMDadoda | 4/3/2025 8:05:13 AM | Peak Integrated by Software incorrectly |
| VSTDICC001 | VL042174.D | 1,4-Dioxane | SAM | 3/31/2025 11:26:28 AM | MMDadoda | 4/3/2025 8:05:22 AM | Peak Integrated by Software incorrectly |
| VSTDICC001 | VL042174.D | 4-Methyl-2-Pentanone | SAM | 3/31/2025 11:26:28 AM | MMDadoda | 4/3/2025 8:05:22 AM | Peak Integrated by Software incorrectly |
| VSTDICC001 | VL042174.D | Ethanol | SAM | 3/31/2025 11:26:28 AM | MMDadoda | 4/3/2025 8:05:22 AM | Peak Integrated by Software incorrectly |
| VSTDICC001 | VL042174.D | m/p-Xylene | SAM | 3/31/2025 11:26:28 AM | MMDadoda | 4/3/2025 8:05:22 AM | Peak Integrated by Software incorrectly |
| VSTDICC001 | VL042174.D | Methyl Methacrylate | SAM | 3/31/2025 | MMDadoda | 4/3/2025 | Peak Integrat |

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | 11:26:28 AM | | 8:05:22 AM | ed by Software incorrectly |
| VSTDICC001 | VL042174.D | Propene | SAM | 3/31/2025 11:26:28 AM | MMDadoda | 4/3/2025 8:05:22 AM | Peak Integrated by Software incorrectly |
| VSTDICC001 | VL042174.D | t-1,3-Dichloropropene | SAM | 3/31/2025 11:26:28 AM | MMDadoda | 4/3/2025 8:05:22 AM | Peak Integrated by Software incorrectly |
| VSTDICC001 | VL042174.D | trans-1,2-Dichloroethene | SAM | 3/31/2025 11:26:28 AM | MMDadoda | 4/3/2025 8:05:22 AM | Peak Integrated by Software incorrectly |
| VSTDICC001 | VL042174.D | Vinyl Acetate | SAM | 3/31/2025 11:26:28 AM | MMDadoda | 4/3/2025 8:05:22 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.5 | VL042175.D | 1,1,2-Trichloroethane | SAM | 3/31/2025 11:26:33 AM | MMDadoda | 4/3/2025 8:05:37 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.5 | VL042175.D | 1,4-Dioxane | SAM | 3/31/2025 11:26:33 AM | MMDadoda | 4/3/2025 8:05:37 AM | Peak Integrated by Software incorrectly |
| VSTDICC0. | VL042175 | cis-1,3- | SAM | 3/31/20 | MMDado | 4/3/202 | Peak |

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | .D | Dichloropropene | | 25 11:26:33 AM | da | 5 8:05:37 AM | Integrated by Software incorrectly |
| VSTDICC0.5 | VL042175.D | Cyclohexane | SAM | 3/31/2025 11:26:33 AM | MMDadoda | 4/3/2025 8:05:37 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.5 | VL042175.D | m/p-Xylene | SAM | 3/31/2025 11:26:33 AM | MMDadoda | 4/3/2025 8:05:37 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.5 | VL042175.D | Methyl Methacrylate | SAM | 3/31/2025 11:26:33 AM | MMDadoda | 4/3/2025 8:05:37 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.5 | VL042175.D | Propene | SAM | 3/31/2025 11:26:33 AM | MMDadoda | 4/3/2025 8:05:37 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.5 | VL042175.D | Tetrahydrofuran | SAM | 3/31/2025 11:26:33 AM | MMDadoda | 4/3/2025 8:05:37 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.5 | VL042175.D | Trichloroethene | SAM | 3/31/2025 11:26:33 AM | MMDadoda | 4/3/2025 8:05:37 AM | Peak Integrated by Software incorrectly |

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| VSTDICC0.1 | VL042176.D | 1,1,1-Trichloroethane | SAM | 3/31/2025 11:25:04 AM | MMDadoda | 4/3/2025 8:05:45 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.1 | VL042176.D | 1,1,2,2-Tetrachloroethane | SAM | 3/31/2025 11:25:04 AM | MMDadoda | 4/3/2025 8:05:45 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.1 | VL042176.D | 1,2-Dibromoethane | SAM | 3/31/2025 11:25:04 AM | MMDadoda | 4/3/2025 8:05:45 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.1 | VL042176.D | Carbon Tetrachloride | SAM | 3/31/2025 11:25:04 AM | MMDadoda | 4/3/2025 8:05:45 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.1 | VL042176.D | Trichloroethene | SAM | 3/31/2025 11:25:04 AM | MMDadoda | 4/3/2025 8:05:45 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.03 | VL042177.D | 1,1,1-Trichloroethane | SAM | 3/31/2025 11:26:39 AM | MMDadoda | 4/3/2025 8:05:59 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.03 | VL042177.D | 1,1,2,2-Tetrachloroethane | SAM | 3/31/2025 11:26:39 AM | MMDadoda | 4/3/2025 8:05:59 AM | Peak Integrated by Software incorrectly |

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Phone: 908 789 8900 Fax: 908 789 8922

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| VSTDICC0.03 | VL042177.D | Carbon Tetrachloride | SAM | 3/31/2025 11:26:39 AM | MMDadoda | 4/3/2025 8:05:59 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.03 | VL042177.D | Tetrachloroethene | SAM | 3/31/2025 11:26:39 AM | MMDadoda | 4/3/2025 8:05:59 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.03 | VL042177.D | Trichloroethene | SAM | 3/31/2025 11:26:39 AM | MMDadoda | 4/3/2025 8:05:59 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.03 | VL042177.D | Vinyl Chloride | SAM | 3/31/2025 11:26:39 AM | MMDadoda | 4/3/2025 8:05:59 AM | Peak Integrated by Software incorrectly |
| VSTDICC015 | VL042178.D | m/p-Xylene | SAM | 3/31/2025 11:25:14 AM | MMDadoda | 4/3/2025 8:06:09 AM | Peak Integrated by Software incorrectly |
| VSTDICV010 | VL042179.D | m/p-Xylene | SAM | 3/31/2025 11:28:50 AM | MMDadoda | 4/3/2025 8:06:14 AM | Peak Integrated by Software incorrectly |

| Manual Integration Report | | | |
|---|---|---|---|
| Sequence | VL040925 | Instrument | MSVOA_I |

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| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDCCC010 | VL042286.D | m/p-Xylene | SAM | 4/10/2025 12:04:04 PM | MMDadoda | 4/10/2025 3:39:20 PM | Peak Integrated by Software incorrectly |
| VL0409ABS01 | VL042288.D | m/p-Xylene | SAM | 4/10/2025 12:04:11 PM | MMDadoda | 4/10/2025 7:20:44 PM | Peak Integrated by Software incorrectly |
| VL0409ABS02 | VL042289.D | m/p-Xylene | SAM | 4/10/2025 12:04:58 PM | MMDadoda | 4/10/2025 7:20:47 PM | Peak Integrated by Software incorrectly |
| Q1665-01 | VL042290.D | Benzene | SAM | 4/10/2025 12:05:04 PM | MMDadoda | 4/10/2025 7:20:50 PM | Peak Integrated by Software incorrectly |
| Q1665-01 | VL042290.D | Carbon Tetrachloride | SAM | 4/10/2025 12:05:04 PM | MMDadoda | 4/10/2025 7:20:50 PM | Peak Integrated by Software incorrectly |
| Q1665-01 | VL042290.D | Chlorodifluoromethane | SAM | 4/10/2025 12:05:04 PM | MMDadoda | 4/10/2025 7:20:50 PM | Peak Integrated by Software incorrectly |
| Q1665-01 | VL042290.D | Heptane | SAM | 4/10/2025 12:05:04 PM | MMDadoda | 4/10/2025 7:20:50 PM | Peak Integrated by Softwar |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | | | | e incorrectly |
| Q1665-01 | VL042290.D | m/p-Xylene | SAM | 4/10/2025 12:05:04 PM | MMDadoda | 4/10/2025 7:20:50 PM | Peak Integrated by Software incorrectly |
| Q1665-01 | VL042290.D | Toluene | SAM | 4/10/2025 12:05:04 PM | MMDadoda | 4/10/2025 7:20:50 PM | Peak Integrated by Software incorrectly |
| Q1665-01DUP | VL042291.D | Carbon Tetrachloride | SAM | 4/10/2025 12:05:09 PM | MMDadoda | 4/10/2025 7:20:53 PM | Peak Integrated by Software incorrectly |
| Q1665-01DUP | VL042291.D | Chlorodifluoromethane | SAM | 4/10/2025 12:05:09 PM | MMDadoda | 4/10/2025 7:20:53 PM | Peak Integrated by Software incorrectly |
| Q1665-01DUP | VL042291.D | Heptane | SAM | 4/10/2025 12:05:09 PM | MMDadoda | 4/10/2025 7:20:53 PM | Peak Integrated by Software incorrectly |
| Q1665-01DUP | VL042291.D | m/p-Xylene | SAM | 4/10/2025 12:05:09 PM | MMDadoda | 4/10/2025 7:20:53 PM | Peak Integrated by Software incorrectly |
| Q1665-01DUP | VL042291.D | Trichlorofluoromethane | SAM | 4/10/2025 12:05:0 | MMDadoda | 4/10/2025 7:20:53 | Peak Integrated by |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | 9 PM | | PM | Software incorrectly |
| Q1665-04 | VL042292.D | Chlorodifluoromethane | SAM | 4/10/2025 12:05:14 PM | MMDadoda | 4/10/2025 7:20:55 PM | Peak Integrated by Software incorrectly |
| Q1665-04 | VL042292.D | m/p-Xylene | SAM | 4/10/2025 12:05:14 PM | MMDadoda | 4/10/2025 7:20:55 PM | Peak Integrated by Software incorrectly |
| Q1665-04 | VL042292.D | Toluene | SAM | 4/10/2025 12:05:14 PM | MMDadoda | 4/10/2025 7:20:55 PM | Peak Integrated by Software incorrectly |
| Q1665-06 | VL042293.D | Carbon Tetrachloride | SAM | 4/10/2025 12:04:30 PM | MMDadoda | 4/10/2025 7:20:58 PM | Peak Integrated by Software incorrectly |
| Q1665-06 | VL042293.D | Chlorodifluoromethane | SAM | 4/10/2025 12:04:30 PM | MMDadoda | 4/10/2025 7:20:58 PM | Peak Integrated by Software incorrectly |
| Q1665-06 | VL042293.D | Heptane | SAM | 4/10/2025 12:04:30 PM | MMDadoda | 4/10/2025 7:20:58 PM | Peak Integrated by Software incorrectly |
| Q1665-06 | VL042293.D | Propene | SAM | 4/10/2025 | MMDadoda | 4/10/2025 | Peak Integrat |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | 12:04:30 PM | | 7:20:58 PM | ed by Software incorrectly |
| Q1665-06 | VL042293.D | Tetrahydrofuran | SAM | 4/10/2025 12:04:30 PM | MMDadoda | 4/10/2025 7:20:58 PM | Peak Integrated by Software incorrectly |
| Q1665-08 | VL042294.D | Benzene | SAM | 4/10/2025 12:04:43 PM | MMDadoda | 4/10/2025 7:21:00 PM | Peak Integrated by Software incorrectly |
| Q1665-08 | VL042294.D | Carbon Tetrachloride | SAM | 4/10/2025 12:04:43 PM | MMDadoda | 4/10/2025 7:21:00 PM | Peak Integrated by Software incorrectly |
| Q1665-08 | VL042294.D | Chlorodifluoromethane | SAM | 4/10/2025 12:04:43 PM | MMDadoda | 4/10/2025 7:21:00 PM | Peak Integrated by Software incorrectly |
| Q1665-08 | VL042294.D | Propene | SAM | 4/10/2025 12:04:43 PM | MMDadoda | 4/10/2025 7:21:00 PM | Peak Integrated by Software incorrectly |
| Q1665-08 | VL042294.D | tert-Butyl alcohol | SAM | 4/10/2025 12:04:43 PM | MMDadoda | 4/10/2025 7:21:00 PM | Peak Integrated by Software incorrectly |
| Q1665-09 | VL04229 | Carbon | SAM | 4/10/20 | MMDado | 4/10/20 | Peak |

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|---|---|---|---|---|---|---|---|
| | 5.D | Tetrachloride | | 25 12:04:26 PM | da | 25 7:21:01 PM | Integrated by Software incorrectly |
| Q1665-09 | VL042295.D | Chlorodifluoromethane | SAM | 4/10/2025 12:04:26 PM | MMDadoda | 4/10/2025 7:21:01 PM | Peak Integrated by Software incorrectly |
| Q1665-09 | VL042295.D | Heptane | SAM | 4/10/2025 12:04:26 PM | MMDadoda | 4/10/2025 7:21:01 PM | Peak Integrated by Software incorrectly |
| Q1665-09 | VL042295.D | m/p-Xylene | SAM | 4/10/2025 12:04:26 PM | MMDadoda | 4/10/2025 7:21:01 PM | Peak Integrated by Software incorrectly |
| Q1665-09 | VL042295.D | Propene | SAM | 4/10/2025 12:04:26 PM | MMDadoda | 4/10/2025 7:21:01 PM | Peak Integrated by Software incorrectly |
| Q1665-20 | VL042296.D | Chlorobenzene | SAM | 4/10/2025 12:05:20 PM | MMDadoda | 4/10/2025 7:21:06 PM | Peak Integrated by Software incorrectly |
| Q1665-20 | VL042296.D | Chlorodifluoromethane | SAM | 4/10/2025 12:05:20 PM | MMDadoda | 4/10/2025 7:21:06 PM | Peak Integrated by Software incorrectly |

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|---|---|---|---|---|---|---|---|
| Q1665-20 | VL042296.D | Heptane | SAM | 4/10/2025 12:05:20 PM | MMDadoda | 4/10/2025 7:21:06 PM | Peak Integrated by Software incorrectly |
| Q1665-20 | VL042296.D | m/p-Xylene | SAM | 4/10/2025 12:05:20 PM | MMDadoda | 4/10/2025 7:21:06 PM | Peak Integrated by Software incorrectly |
| Q1665-20 | VL042296.D | Propene | SAM | 4/10/2025 12:05:20 PM | MMDadoda | 4/10/2025 7:21:06 PM | Peak Integrated by Software incorrectly |

## Manual Integration Report

| | | | |
|---|---|---|---|
| Sequence | VL041125 | Instrument | MSVOA_I |

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDCCC010 | VL042312.D | m/p-Xylene | SAM | 4/16/2025 9:17:16 PM | MMDadoda | 4/17/2025 1:40:05 PM | Peak Integrated by Software incorrectly |
| VL0411ABS01 | VL042314.D | m/p-Xylene | SAM | 4/16/2025 9:17:26 PM | MMDadoda | 4/17/2025 1:40:08 PM | Peak Integrated by Software incorrectly |
| Q1665-03 | VL042317.D | Carbon Tetrachloride | SAM | 4/16/2025 9:17:31 PM | MMDadoda | 4/17/2025 1:40:15 PM | Peak Integrated by Software |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | | | | incorrectly |
| Q1665-03 | VL042317.D | Heptane | SAM | 4/16/2025 9:17:31 PM | MMDadoda | 4/17/2025 1:40:15 PM | Peak Integrated by Software incorrectly |
| Q1665-03 | VL042317.D | m/p-Xylene | SAM | 4/16/2025 9:17:31 PM | MMDadoda | 4/17/2025 1:40:15 PM | Peak Integrated by Software incorrectly |
| Q1665-03 | VL042317.D | Propene | SAM | 4/16/2025 9:17:31 PM | MMDadoda | 4/17/2025 1:40:15 PM | Peak Integrated by Software incorrectly |
| Q1665-03 | VL042317.D | Tetrachloroethene | SAM | 4/16/2025 9:17:31 PM | MMDadoda | 4/17/2025 1:40:15 PM | Peak Integrated by Software incorrectly |
| Q1665-03DUP | VL042318.D | Carbon Tetrachloride | SAM | 4/16/2025 9:17:45 PM | MMDadoda | 4/17/2025 1:40:17 PM | Peak Integrated by Software incorrectly |
| Q1665-03DUP | VL042318.D | Heptane | SAM | 4/16/2025 9:17:45 PM | MMDadoda | 4/17/2025 1:40:17 PM | Peak Integrated by Software incorrectly |
| Q1665-03DUP | VL042318.D | m/p-Xylene | SAM | 4/16/2025 9:17:45 PM | MMDadoda | 4/17/2025 1:40:17 PM | Peak Integrated by Softwar |

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|---|---|---|---|---|---|---|---|
| | | | | | | | e incorrectly |
| Q1665-03DUP | VL042318.D | o-Xylene | SAM | 4/16/2025 9:17:45 PM | MMDadoda | 4/17/2025 1:40:17 PM | Peak Integrated by Software incorrectly |
| Q1665-03DUP | VL042318.D | Propene | SAM | 4/16/2025 9:17:45 PM | MMDadoda | 4/17/2025 1:40:17 PM | Peak Integrated by Software incorrectly |
| Q1665-03DUP | VL042318.D | tert-Butyl alcohol | SAM | 4/16/2025 9:17:45 PM | MMDadoda | 4/17/2025 1:40:17 PM | Peak Integrated by Software incorrectly |
| Q1665-03DUP | VL042318.D | Tetrachloroethene | SAM | 4/16/2025 9:17:45 PM | MMDadoda | 4/17/2025 1:40:17 PM | Peak Integrated by Software incorrectly |
| Q1665-03DUP | VL042318.D | Toluene | SAM | 4/16/2025 9:17:45 PM | MMDadoda | 4/17/2025 1:40:17 PM | Peak Integrated by Software incorrectly |
| Q1665-10 | VL042319.D | 2,2,4-Trimethylpentane | SAM | 4/16/2025 9:18:13 PM | MMDadoda | 4/17/2025 1:40:19 PM | Peak Integrated by Software incorrectly |
| Q1665-10 | VL042319.D | Carbon Tetrachloride | SAM | 4/16/2025 9:18:13 | MMDadoda | 4/17/2025 1:40:19 | Peak Integrated by |

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|---|---|---|---|---|---|---|---|
| | | | | PM | | PM | Software incorrectly |
| Q1665-10 | VL042319.D | Chlorodifluoromethane | SAM | 4/16/2025 9:18:13 PM | MMDadoda | 4/17/2025 1:40:19 PM | Peak Integrated by Software incorrectly |
| Q1665-10 | VL042319.D | Heptane | SAM | 4/16/2025 9:18:13 PM | MMDadoda | 4/17/2025 1:40:19 PM | Peak Integrated by Software incorrectly |
| Q1665-10 | VL042319.D | m/p-Xylene | SAM | 4/16/2025 9:18:13 PM | MMDadoda | 4/17/2025 1:40:19 PM | Peak Integrated by Software incorrectly |
| Q1665-10 | VL042319.D | Propene | SAM | 4/16/2025 9:18:13 PM | MMDadoda | 4/17/2025 1:40:19 PM | Peak Integrated by Software incorrectly |
| Q1665-10 | VL042319.D | Toluene | SAM | 4/16/2025 9:18:13 PM | MMDadoda | 4/17/2025 1:40:19 PM | Peak Integrated by Software incorrectly |
| Q1665-11 | VL042320.D | 4-Methyl-2-Pentanone | SAM | 4/16/2025 9:18:07 PM | MMDadoda | 4/17/2025 1:40:21 PM | Peak Integrated by Software incorrectly |
| Q1665-11 | VL042320.D | Carbon Tetrachloride | SAM | 4/16/2025 | MMDadoda | 4/17/2025 | Peak Integrat |

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | 9:18:07 PM | | 1:40:21 PM | ed by Software incorrectly |
| Q1665-11 | VL042320.D | m/p-Xylene | SAM | 4/16/2025 9:18:07 PM | MMDadoda | 4/17/2025 1:40:21 PM | Peak Integrated by Software incorrectly |
| Q1665-11 | VL042320.D | Propene | SAM | 4/16/2025 9:18:07 PM | MMDadoda | 4/17/2025 1:40:21 PM | Peak Integrated by Software incorrectly |
| Q1665-11 | VL042320.D | tert-Butyl alcohol | SAM | 4/16/2025 9:18:07 PM | MMDadoda | 4/17/2025 1:40:21 PM | Peak Integrated by Software incorrectly |
| Q1665-11 | VL042320.D | Toluene | SAM | 4/16/2025 9:18:07 PM | MMDadoda | 4/17/2025 1:40:21 PM | Peak Integrated by Software incorrectly |
| Q1665-18 | VL042321.D | 4-Methyl-2-Pentanone | SAM | 4/16/2025 9:18:36 PM | MMDadoda | 4/17/2025 1:40:23 PM | Peak Integrated by Software incorrectly |
| Q1665-18 | VL042321.D | Carbon Tetrachloride | SAM | 4/16/2025 9:18:36 PM | MMDadoda | 4/17/2025 1:40:23 PM | Peak Integrated by Software incorrectly |
| Q1665-18 | VL04232 | Chlorodifluoromet | SAM | 4/16/20 | MMDado | 4/17/20 | Peak |

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|---|---|---|---|---|---|---|---|
| | 1.D | hane | | 25 9:18:36 PM | da | 25 1:40:23 PM | Integrated by Software incorrectly |
| Q1665-18 | VL042321.D | Heptane | SAM | 4/16/2025 9:18:36 PM | MMDadoda | 4/17/2025 1:40:23 PM | Peak Integrated by Software incorrectly |
| Q1665-18 | VL042321.D | m/p-Xylene | SAM | 4/16/2025 9:18:36 PM | MMDadoda | 4/17/2025 1:40:23 PM | Peak Integrated by Software incorrectly |
| Q1665-18 | VL042321.D | o-Xylene | SAM | 4/16/2025 9:18:36 PM | MMDadoda | 4/17/2025 1:40:23 PM | Peak Integrated by Software incorrectly |
| Q1665-18 | VL042321.D | Propene | SAM | 4/16/2025 9:18:36 PM | MMDadoda | 4/17/2025 1:40:23 PM | Peak Integrated by Software incorrectly |
| Q1665-18 | VL042321.D | tert-Butyl alcohol | SAM | 4/16/2025 9:18:36 PM | MMDadoda | 4/17/2025 1:40:23 PM | Peak Integrated by Software incorrectly |
| Q1665-18 | VL042321.D | Tetrachloroethene | SAM | 4/16/2025 9:18:36 PM | MMDadoda | 4/17/2025 1:40:23 PM | Peak Integrated by Software incorrectly |

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|---|---|---|---|---|---|---|---|
| Q1665-10DL | VL042323.D | Propene | SAM | 4/16/2025 9:18:02 PM | MMDadoda | 4/17/2025 1:40:25 PM | Peak Integrated by Software incorrectly |
| Q1665-11DL | VL042324.D | Chloroform | SAM | 4/16/2025 9:17:57 PM | MMDadoda | 4/17/2025 1:40:26 PM | Peak Integrated by Software incorrectly |

| Manual Integration Report | | | |
|---|---|---|---|
| Sequence | VL041525 | Instrument | MSVOA_I |

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDCCC010 | VL042326.D | m/p-Xylene | SAM | 4/16/2025 2:13:04 PM | MMDadoda | 4/16/2025 3:47:21 PM | Peak Integrated by Software incorrectly |
| VL0415ABS01 | VL042328.D | m/p-Xylene | SAM | 4/16/2025 2:13:09 PM | MMDadoda | 4/16/2025 3:47:23 PM | Peak Integrated by Software incorrectly |
| Q1665-10DL2 | VL042332.D | Propene | SAM | 4/16/2025 2:13:14 PM | MMDadoda | 4/16/2025 3:47:25 PM | Peak Integrated by Software incorrectly |

| Manual Integration Report | | | |
|---|---|---|---|
| Sequence | VL041725 | Instrument | MSVOA_I |

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|

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|---|---|---|---|---|---|---|---|
| VSTDICCC010 | VL042349.D | m/p-Xylene | SAM | 4/18/2025 4:19:07 PM | MMDadoda | 4/18/2025 10:45:20 PM | Peak Integrated by Software incorrectly |
| VSTDICC002 | VL042350.D | 1,4-Dioxane | SAM | 4/18/2025 4:19:12 PM | MMDadoda | 4/18/2025 10:45:17 PM | Peak Integrated by Software incorrectly |
| VSTDICC002 | VL042350.D | cis-1,3-Dichloropropene | SAM | 4/18/2025 4:19:12 PM | MMDadoda | 4/18/2025 10:45:17 PM | Peak Integrated by Software incorrectly |
| VSTDICC002 | VL042350.D | Ethanol | SAM | 4/18/2025 4:19:12 PM | MMDadoda | 4/18/2025 10:45:17 PM | Peak Integrated by Software incorrectly |
| VSTDICC002 | VL042350.D | Heptane | SAM | 4/18/2025 4:19:12 PM | MMDadoda | 4/18/2025 10:45:17 PM | Peak Integrated by Software incorrectly |
| VSTDICC002 | VL042350.D | m/p-Xylene | SAM | 4/18/2025 4:19:12 PM | MMDadoda | 4/18/2025 10:45:17 PM | Peak Integrated by Software incorrectly |
| VSTDICC002 | VL042350.D | Trichloroethene | SAM | 4/18/2025 4:19:12 PM | MMDadoda | 4/18/2025 10:45:17 PM | Peak Integrated by Software incorrectly |

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|---|---|---|---|---|---|---|---|
| VSTDICC001 | VL042351.D | 1,1,2-Trichloroethane | SAM | 4/18/2025 4:19:17 PM | MMDadoda | 4/18/2025 10:45:15 PM | Peak Integrated by Software incorrectly |
| VSTDICC001 | VL042351.D | 1,3-Butadiene | SAM | 4/18/2025 4:19:17 PM | MMDadoda | 4/18/2025 10:45:15 PM | Peak Integrated by Software incorrectly |
| VSTDICC001 | VL042351.D | 1,4-Dioxane | SAM | 4/18/2025 4:19:17 PM | MMDadoda | 4/18/2025 10:45:15 PM | Peak Integrated by Software incorrectly |
| VSTDICC001 | VL042351.D | 2,2,4-Trimethylpentane | SAM | 4/18/2025 4:19:17 PM | MMDadoda | 4/18/2025 10:45:15 PM | Peak Integrated by Software incorrectly |
| VSTDICC001 | VL042351.D | cis-1,3-Dichloropropene | SAM | 4/18/2025 4:19:17 PM | MMDadoda | 4/18/2025 10:45:15 PM | Peak Integrated by Software incorrectly |
| VSTDICC001 | VL042351.D | Cyclohexane | SAM | 4/18/2025 4:19:17 PM | MMDadoda | 4/18/2025 10:45:15 PM | Peak Integrated by Software incorrectly |
| VSTDICC001 | VL042351.D | Ethanol | SAM | 4/18/2025 4:19:17 PM | MMDadoda | 4/18/2025 10:45:15 PM | Peak Integrated by Software incorrectly |

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|---|---|---|---|---|---|---|---|
| VSTDICC001 | VL042351.D | Heptane | SAM | 4/18/2025 4:19:17 PM | MMDadoda | 4/18/2025 10:45:15 PM | Peak Integrated by Software incorrectly |
| VSTDICC001 | VL042351.D | m/p-Xylene | SAM | 4/18/2025 4:19:17 PM | MMDadoda | 4/18/2025 10:45:15 PM | Peak Integrated by Software incorrectly |
| VSTDICC001 | VL042351.D | Methyl Methacrylate | SAM | 4/18/2025 4:19:17 PM | MMDadoda | 4/18/2025 10:45:15 PM | Peak Integrated by Software incorrectly |
| VSTDICC001 | VL042351.D | t-1,3-Dichloropropene | SAM | 4/18/2025 4:19:17 PM | MMDadoda | 4/18/2025 10:45:15 PM | Peak Integrated by Software incorrectly |
| VSTDICC0.5 | VL042352.D | 1,1,2-Trichloroethane | SAM | 4/18/2025 4:20:33 PM | MMDadoda | 4/18/2025 10:45:07 PM | Peak Integrated by Software incorrectly |
| VSTDICC0.5 | VL042352.D | 1,2-Dichloropropane | SAM | 4/18/2025 4:20:33 PM | MMDadoda | 4/18/2025 10:45:07 PM | Peak Integrated by Software incorrectly |
| VSTDICC0.5 | VL042352.D | 1,4-Dioxane | SAM | 4/18/2025 4:20:33 PM | MMDadoda | 4/18/2025 10:45:07 PM | Peak Integrated by Software incorrectly |

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|---|---|---|---|---|---|---|---|
| VSTDICC0.5 | VL042352.D | 4-Methyl-2-Pentanone | SAM | 4/18/2025 4:20:33 PM | MMDadoda | 4/18/2025 10:45:07 PM | Peak Integrated by Software incorrectly |
| VSTDICC0.5 | VL042352.D | Chlorobenzene | SAM | 4/18/2025 4:20:33 PM | MMDadoda | 4/18/2025 10:45:07 PM | Peak Integrated by Software incorrectly |
| VSTDICC0.5 | VL042352.D | cis-1,3-Dichloropropene | SAM | 4/18/2025 4:20:33 PM | MMDadoda | 4/18/2025 10:45:07 PM | Peak Integrated by Software incorrectly |
| VSTDICC0.5 | VL042352.D | Ethanol | SAM | 4/18/2025 4:20:33 PM | MMDadoda | 4/18/2025 10:45:07 PM | Peak Integrated by Software incorrectly |
| VSTDICC0.5 | VL042352.D | Heptane | SAM | 4/18/2025 4:20:33 PM | MMDadoda | 4/18/2025 10:45:07 PM | Peak Integrated by Software incorrectly |
| VSTDICC0.5 | VL042352.D | m/p-Xylene | SAM | 4/18/2025 4:20:33 PM | MMDadoda | 4/18/2025 10:45:07 PM | Peak Integrated by Software incorrectly |
| VSTDICC0.5 | VL042352.D | Methyl Methacrylate | SAM | 4/18/2025 4:20:33 PM | MMDadoda | 4/18/2025 10:45:07 PM | Peak Integrated by Software incorrectly |

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|---|---|---|---|---|---|---|---|
| VSTDICC0.5 | VL042352.D | t-1,3-Dichloropropene | SAM | 4/18/2025 4:20:33 PM | MMDadoda | 4/18/2025 10:45:07 PM | Peak Integrated by Software incorrectly |
| VSTDICC0.5 | VL042352.D | Tetrahydrofuran | SAM | 4/18/2025 4:20:33 PM | MMDadoda | 4/18/2025 10:45:07 PM | Peak Integrated by Software incorrectly |
| VSTDICC0.1 | VL042353.D | 1,1,1-Trichloroethane | SAM | 4/18/2025 4:20:37 PM | MMDadoda | 4/18/2025 10:45:04 PM | Peak Integrated by Software incorrectly |
| VSTDICC0.1 | VL042353.D | 1,1,2,2-Tetrachloroethane | SAM | 4/18/2025 4:20:37 PM | MMDadoda | 4/18/2025 10:45:04 PM | Peak Integrated by Software incorrectly |
| VSTDICC0.1 | VL042353.D | 1,2-Dibromoethane | SAM | 4/18/2025 4:20:37 PM | MMDadoda | 4/18/2025 10:45:04 PM | Peak Integrated by Software incorrectly |
| VSTDICC0.1 | VL042353.D | Tetrachloroethene | SAM | 4/18/2025 4:20:37 PM | MMDadoda | 4/18/2025 10:45:04 PM | Peak Integrated by Software incorrectly |
| VSTDICC0.1 | VL042353.D | Trichloroethene | SAM | 4/18/2025 4:20:37 PM | MMDadoda | 4/18/2025 10:45:04 PM | Peak Integrated by Software incorrectly |

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|---|---|---|---|---|---|---|---|
| VSTDICC0.03 | VL042354.D | 1,1,1-Trichloroethane | SAM | 4/18/2025 4:19:24 PM | MMDadoda | 4/18/2025 10:45:02 PM | Peak Integrated by Software incorrectly |
| VSTDICC0.03 | VL042354.D | 1,1,2,2-Tetrachloroethane | SAM | 4/18/2025 4:19:24 PM | MMDadoda | 4/18/2025 10:45:02 PM | Peak Integrated by Software incorrectly |
| VSTDICC0.03 | VL042354.D | Carbon Tetrachloride | SAM | 4/18/2025 4:19:24 PM | MMDadoda | 4/18/2025 10:45:02 PM | Peak Integrated by Software incorrectly |
| VSTDICC0.03 | VL042354.D | Tetrachloroethene | SAM | 4/18/2025 4:19:24 PM | MMDadoda | 4/18/2025 10:45:02 PM | Peak Integrated by Software incorrectly |
| VSTDICC0.03 | VL042354.D | Trichloroethene | SAM | 4/18/2025 4:19:24 PM | MMDadoda | 4/18/2025 10:45:02 PM | Peak Integrated by Software incorrectly |
| VSTDICC015 | VL042355.D | m/p-Xylene | SAM | 4/18/2025 4:21:35 PM | MMDadoda | 4/18/2025 10:44:59 PM | Peak Integrated by Software incorrectly |
| VSTDICV010 | VL042356.D | m/p-Xylene | SAM | 4/18/2025 4:20:42 PM | MMDadoda | 4/18/2025 10:44:57 PM | Peak Integrated by Software incorrectly |

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|---|---|---|---|---|---|---|---|
| VL0417ABS01 | VL042358.D | m/p-Xylene | SAM | 4/18/2025 4:21:39 PM | MMDadoda | 4/18/2025 10:44:55 PM | Peak Integrated by Software incorrectly |
| Q1665-15 | VL042359.D | 1,1,1-Trichloroethane | SAM | 4/18/2025 4:22:27 PM | MMDadoda | 4/18/2025 10:44:53 PM | Peak Integrated by Software incorrectly |
| Q1665-15 | VL042359.D | 1,4-Dioxane | SAM | 4/18/2025 4:22:27 PM | MMDadoda | 4/18/2025 10:44:53 PM | Peak Integrated by Software incorrectly |
| Q1665-15 | VL042359.D | 2,2,4-Trimethylpentane | SAM | 4/18/2025 4:22:27 PM | MMDadoda | 4/18/2025 10:44:53 PM | Peak Integrated by Software incorrectly |
| Q1665-15 | VL042359.D | 2-Hexanone | SAM | 4/18/2025 4:22:27 PM | MMDadoda | 4/18/2025 10:44:53 PM | Peak Integrated by Software incorrectly |
| Q1665-15 | VL042359.D | 4-Methyl-2-Pentanone | SAM | 4/18/2025 4:22:27 PM | MMDadoda | 4/18/2025 10:44:53 PM | Peak Integrated by Software incorrectly |
| Q1665-15 | VL042359.D | Benzene | SAM | 4/18/2025 4:22:27 PM | MMDadoda | 4/18/2025 10:44:53 PM | Peak Integrated by Software incorrectly |

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Q1665-15 | VL042359.D | Carbon Tetrachloride | SAM | 4/18/2025 4:22:27 PM | MMDadoda | 4/18/2025 10:44:53 PM | Peak Integrated by Software incorrectly |
| Q1665-15 | VL042359.D | Chlorodifluoromethane | SAM | 4/18/2025 4:22:27 PM | MMDadoda | 4/18/2025 10:44:53 PM | Peak Integrated by Software incorrectly |
| Q1665-15 | VL042359.D | Heptane | SAM | 4/18/2025 4:22:27 PM | MMDadoda | 4/18/2025 10:44:53 PM | Peak Integrated by Software incorrectly |
| Q1665-15 | VL042359.D | Naphthalene,2-methyl- | SAM | 4/18/2025 4:22:27 PM | MMDadoda | 4/18/2025 10:44:53 PM | Peak Integrated by Software incorrectly |
| Q1665-15DL | VL042360.D | 2-Butanone | SAM | 4/18/2025 4:21:44 PM | MMDadoda | 4/18/2025 10:44:49 PM | Peak Integrated by Software incorrectly |
| Q1665-15DL | VL042360.D | Ethanol | SAM | 4/18/2025 4:21:44 PM | MMDadoda | 4/18/2025 10:44:49 PM | Peak Integrated by Software incorrectly |
| Q1665-15DL | VL042360.D | m/p-Xylene | SAM | 4/18/2025 4:21:44 PM | MMDadoda | 4/18/2025 10:44:49 PM | Peak Integrated by Software incorrectly |

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Q1665-15DL | VL042360.D | Toluene | SAM | 4/18/2025 4:21:44 PM | MMDadoda | 4/18/2025 10:44:49 PM | Peak Integrated by Software incorrectly |

| Manual Integration Report | | | |
|---|---|---|---|
| Sequence | VL042825 | Instrument | MSVOA_I |

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDCCC010 | VL042416.D | m/p-Xylene | SAM | 4/29/2025 9:26:25 AM | MMDadoda | 4/30/2025 2:28:57 PM | Peak Integrated by Software incorrectly |
| VL0428ABS01 | VL042418.D | m/p-Xylene | SAM | 4/29/2025 9:26:31 AM | MMDadoda | 4/30/2025 2:29:13 PM | Peak Integrated by Software incorrectly |
| Q1665-05 | VL042419.D | 2,2,4-Trimethylpentane | SAM | 4/29/2025 9:28:27 AM | MMDadoda | 4/30/2025 2:29:21 PM | Peak Integrated by Software incorrectly |
| Q1665-05 | VL042419.D | 4-Methyl-2-Pentanone | SAM | 4/29/2025 9:28:27 AM | MMDadoda | 4/30/2025 2:29:21 PM | Peak Integrated by Software incorrectly |
| Q1665-05 | VL042419.D | Acetone | SAM | 4/29/2025 9:28:27 AM | MMDadoda | 4/30/2025 2:29:21 PM | Peak Integrated by Software |

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | | | | incorrectly |
| Q1665-05 | VL042419.D | Carbon Tetrachloride | SAM | 4/29/2025 9:28:27 AM | MMDadoda | 4/30/2025 2:29:21 PM | Peak Integrated by Software incorrectly |
| Q1665-05 | VL042419.D | Chlorodifluoromethane | SAM | 4/29/2025 9:28:27 AM | MMDadoda | 4/30/2025 2:29:21 PM | Peak Integrated by Software incorrectly |
| Q1665-05 | VL042419.D | Cyclohexane | SAM | 4/29/2025 9:28:27 AM | MMDadoda | 4/30/2025 2:29:21 PM | Peak Integrated by Software incorrectly |
| Q1665-05 | VL042419.D | Heptane | SAM | 4/29/2025 9:28:27 AM | MMDadoda | 4/30/2025 2:29:21 PM | Peak Integrated by Software incorrectly |
| Q1665-05 | VL042419.D | Propene | SAM | 4/29/2025 9:28:27 AM | MMDadoda | 4/30/2025 2:29:21 PM | Peak Integrated by Software incorrectly |
| Q1665-05 | VL042419.D | Tetrachloroethene | SAM | 4/29/2025 9:28:27 AM | MMDadoda | 4/30/2025 2:29:21 PM | Peak Integrated by Software incorrectly |
| Q1665-07 | VL042420.D | Acetone | SAM | 4/29/2025 9:26:36 AM | MMDadoda | 4/30/2025 2:29:25 PM | Peak Integrated by Softwar |

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | | | | e incorrectly |
| Q1665-07 | VL042420.D | Benzene | SAM | 4/29/2025 9:26:36 AM | MMDadoda | 4/30/2025 2:29:25 PM | Peak Integrated by Software incorrectly |
| Q1665-07 | VL042420.D | Carbon Tetrachloride | SAM | 4/29/2025 9:26:36 AM | MMDadoda | 4/30/2025 2:29:25 PM | Peak Integrated by Software incorrectly |
| Q1665-07 | VL042420.D | Chlorodifluoromethane | SAM | 4/29/2025 9:26:36 AM | MMDadoda | 4/30/2025 2:29:25 PM | Peak Integrated by Software incorrectly |
| Q1665-07 | VL042420.D | Heptane | SAM | 4/29/2025 9:26:36 AM | MMDadoda | 4/30/2025 2:29:25 PM | Peak Integrated by Software incorrectly |
| Q1665-07 | VL042420.D | m/p-Xylene | SAM | 4/29/2025 9:26:36 AM | MMDadoda | 4/30/2025 2:29:25 PM | Peak Integrated by Software incorrectly |
| Q1665-07 | VL042420.D | Propene | SAM | 4/29/2025 9:26:36 AM | MMDadoda | 4/30/2025 2:29:25 PM | Peak Integrated by Software incorrectly |
| Q1665-07 | VL042420.D | Tetrachloroethene | SAM | 4/29/2025 9:26:36 | MMDadoda | 4/30/2025 2:29:25 | Peak Integrated by |

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | AM | | PM | Software incorrectly |
| Q1665-07 | VL042420.D | Tetrahydrofuran | SAM | 4/29/2025 9:26:36 AM | MMDadoda | 4/30/2025 2:29:25 PM | Peak Integrated by Software incorrectly |
| Q1665-12 | VL042421.D | Benzene | SAM | 4/29/2025 9:27:26 AM | MMDadoda | 4/30/2025 2:30:38 PM | Peak Integrated by Software incorrectly |
| Q1665-12 | VL042421.D | Carbon Tetrachloride | SAM | 4/29/2025 9:27:26 AM | MMDadoda | 4/30/2025 2:30:38 PM | Peak Integrated by Software incorrectly |
| Q1665-12 | VL042421.D | Chlorodifluoromethane | SAM | 4/29/2025 9:27:26 AM | MMDadoda | 4/30/2025 2:30:38 PM | Peak Integrated by Software incorrectly |
| Q1665-12 | VL042421.D | Cyclohexane | SAM | 4/29/2025 9:27:26 AM | MMDadoda | 4/30/2025 2:30:38 PM | Peak Integrated by Software incorrectly |
| Q1665-12 | VL042421.D | Heptane | SAM | 4/29/2025 9:27:26 AM | MMDadoda | 4/30/2025 2:30:38 PM | Peak Integrated by Software incorrectly |
| Q1665-12 | VL042421.D | m/p-Xylene | SAM | 4/29/2025 | MMDadoda | 4/30/2025 | Peak Integrat |

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | 9:27:26 AM | | 2:30:38 PM | ed by Software incorrectly |
| Q1665-12 | VL042421.D | n-propylbenzene | SAM | 4/29/2025 9:27:26 AM | MMDadoda | 4/30/2025 2:30:38 PM | Peak Integrated by Software incorrectly |
| Q1665-12 | VL042421.D | Propene | SAM | 4/29/2025 9:27:26 AM | MMDadoda | 4/30/2025 2:30:38 PM | Peak Integrated by Software incorrectly |
| Q1665-12 | VL042421.D | Tetrahydrofuran | SAM | 4/29/2025 9:27:26 AM | MMDadoda | 4/30/2025 2:30:38 PM | Peak Integrated by Software incorrectly |
| Q1665-16 | VL042422.D | 2,2,4-Trimethylpentane | SAM | 4/29/2025 9:27:50 AM | MMDadoda | 4/30/2025 2:29:28 PM | Peak Integrated by Software incorrectly |
| Q1665-16 | VL042422.D | Carbon Tetrachloride | SAM | 4/29/2025 9:27:50 AM | MMDadoda | 4/30/2025 2:29:28 PM | Peak Integrated by Software incorrectly |
| Q1665-16 | VL042422.D | Chlorodifluoromethane | SAM | 4/29/2025 9:27:50 AM | MMDadoda | 4/30/2025 2:29:28 PM | Peak Integrated by Software incorrectly |
| Q1665-16 | VL04242 | Heptane | SAM | 4/29/20 | MMDado | 4/30/20 | Peak |

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 2.D | | | 25 9:27:50 AM | da | 25 2:29:28 PM | Integrated by Software incorrectly |
| Q1665-16 | VL042422.D | Propene | SAM | 4/29/2025 9:27:50 AM | MMDadoda | 4/30/2025 2:29:28 PM | Peak Integrated by Software incorrectly |
| Q1665-16 | VL042422.D | Styrene | SAM | 4/29/2025 9:27:50 AM | MMDadoda | 4/30/2025 2:29:28 PM | Peak Integrated by Software incorrectly |
| Q1665-16 | VL042422.D | tert-Butyl alcohol | SAM | 4/29/2025 9:27:50 AM | MMDadoda | 4/30/2025 2:29:28 PM | Peak Integrated by Software incorrectly |
| Q1665-16 | VL042422.D | Tetrahydrofuran | SAM | 4/29/2025 9:27:50 AM | MMDadoda | 4/30/2025 2:29:28 PM | Peak Integrated by Software incorrectly |
| Q1665-19 | VL042423.D | 2,2,4-Trimethylpentane | SAM | 4/29/2025 9:27:01 AM | MMDadoda | 4/30/2025 2:29:40 PM | Peak Integrated by Software incorrectly |
| Q1665-19 | VL042423.D | 2-Hexanone | SAM | 4/29/2025 9:27:01 AM | MMDadoda | 4/30/2025 2:29:40 PM | Peak Integrated by Software incorrectly |

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Q1665-19 | VL042423.D | 4-Ethyltoluene | SAM | 4/29/2025 9:27:01 AM | MMDadoda | 4/30/2025 2:29:40 PM | Peak Integrated by Software incorrectly |
| Q1665-19 | VL042423.D | 4-Methyl-2-Pentanone | SAM | 4/29/2025 9:27:01 AM | MMDadoda | 4/30/2025 2:29:40 PM | Peak Integrated by Software incorrectly |
| Q1665-19 | VL042423.D | Acetone | SAM | 4/29/2025 9:27:01 AM | MMDadoda | 4/30/2025 2:29:40 PM | Peak Integrated by Software incorrectly |
| Q1665-19 | VL042423.D | Carbon Tetrachloride | SAM | 4/29/2025 9:27:01 AM | MMDadoda | 4/30/2025 2:29:40 PM | Peak Integrated by Software incorrectly |
| Q1665-19 | VL042423.D | Cyclohexane | SAM | 4/29/2025 9:27:01 AM | MMDadoda | 4/30/2025 2:29:40 PM | Peak Integrated by Software incorrectly |
| Q1665-19 | VL042423.D | Heptane | SAM | 4/29/2025 9:27:01 AM | MMDadoda | 4/30/2025 2:29:40 PM | Peak Integrated by Software incorrectly |
| Q1665-19 | VL042423.D | Propene | SAM | 4/29/2025 9:27:01 AM | MMDadoda | 4/30/2025 2:29:40 PM | Peak Integrated by Software incorrectly |

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Q1665-19 | VL042423.D | Tetrachloroethene | SAM | 4/29/2025 9:27:01 AM | MMDadoda | 4/30/2025 2:29:40 PM | Peak Integrated by Software incorrectly |
| Q1665-21 | VL042424.D | 2,2,4-Trimethylpentane | SAM | 4/29/2025 9:27:55 AM | MMDadoda | 4/30/2025 2:30:38 PM | Peak Integrated by Software incorrectly |
| Q1665-21 | VL042424.D | Carbon Tetrachloride | SAM | 4/29/2025 9:27:55 AM | MMDadoda | 4/30/2025 2:30:38 PM | Peak Integrated by Software incorrectly |
| Q1665-21 | VL042424.D | Chlorodifluoromethane | SAM | 4/29/2025 9:27:55 AM | MMDadoda | 4/30/2025 2:30:38 PM | Peak Integrated by Software incorrectly |
| Q1665-21 | VL042424.D | Heptane | SAM | 4/29/2025 9:27:55 AM | MMDadoda | 4/30/2025 2:30:38 PM | Peak Integrated by Software incorrectly |
| Q1665-21 | VL042424.D | Propene | SAM | 4/29/2025 9:27:55 AM | MMDadoda | 4/30/2025 2:30:38 PM | Peak Integrated by Software incorrectly |
| Q1665-22 | VL042425.D | Acetone | SAM | 4/29/2025 9:27:07 AM | MMDadoda | 4/30/2025 2:29:43 PM | Peak Integrated by Software incorrectly |

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Q1665-22 | VL042425.D | Carbon Tetrachloride | SAM | 4/29/2025 9:27:07 AM | MMDadoda | 4/30/2025 2:29:43 PM | Peak Integrated by Software incorrectly |
| Q1665-22 | VL042425.D | Chlorodifluoromethane | SAM | 4/29/2025 9:27:07 AM | MMDadoda | 4/30/2025 2:29:43 PM | Peak Integrated by Software incorrectly |
| Q1665-22 | VL042425.D | Cyclohexane | SAM | 4/29/2025 9:27:07 AM | MMDadoda | 4/30/2025 2:29:43 PM | Peak Integrated by Software incorrectly |
| Q1665-22 | VL042425.D | Heptane | SAM | 4/29/2025 9:27:07 AM | MMDadoda | 4/30/2025 2:29:43 PM | Peak Integrated by Software incorrectly |
| Q1665-22 | VL042425.D | tert-Butyl alcohol | SAM | 4/29/2025 9:27:07 AM | MMDadoda | 4/30/2025 2:29:43 PM | Peak Integrated by Software incorrectly |

| Manual Integration Report | | | |
|---|---|---|---|
| Sequence | VL042925 | Instrument | MSVOA_I |

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDCCC010 | VL042436.D | 1,1,2-Trichloroethane | SAM | 4/30/2025 7:49:08 AM | MMDadoda | 4/30/2025 2:26:33 PM | Peak Integrated by Software |

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | | | | incorrectly |
| VSTDCCC010 | VL042436.D | m/p-Xylene | SAM | 4/30/2025 7:49:08 AM | MMDadoda | 4/30/2025 2:26:33 PM | Peak Integrated by Software incorrectly |
| VL0429ABS01 | VL042438.D | m/p-Xylene | SAM | 4/30/2025 7:49:14 AM | MMDadoda | 4/30/2025 2:26:38 PM | Peak Integrated by Software incorrectly |
| VL0429ABS01 | VL042438.D | Methyl Methacrylate | SAM | 4/30/2025 7:49:14 AM | MMDadoda | 4/30/2025 2:26:38 PM | Peak Integrated by Software incorrectly |
| Q1665-07DL | VL042451.D | 2,2,4-Trimethylpentane | SAM | 4/30/2025 7:52:06 AM | MMDadoda | 4/30/2025 2:27:43 PM | Peak Integrated by Software incorrectly |
| Q1665-07DL | VL042451.D | m/p-Xylene | SAM | 4/30/2025 7:52:06 AM | MMDadoda | 4/30/2025 2:27:43 PM | Peak Integrated by Software incorrectly |
| Q1665-19DL | VL042452.D | 2,2,4-Trimethylpentane | SAM | 4/30/2025 7:49:38 AM | MMDadoda | 4/30/2025 2:27:50 PM | Peak Integrated by Software incorrectly |
| Q1665-19DL | VL042452.D | m/p-Xylene | SAM | 4/30/2025 7:49:38 AM | MMDadoda | 4/30/2025 2:27:50 PM | Peak Integrated by Softwar |

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | | | | e incorrectly |
| Q1665-19DL | VL042452.D | Propene | SAM | 4/30/2025 7:49:38 AM | MMDadoda | 4/30/2025 2:27:50 PM | Peak Integrated by Software incorrectly |
| Q1665-19DL | VL042452.D | Toluene | SAM | 4/30/2025 7:49:38 AM | MMDadoda | 4/30/2025 2:27:50 PM | Peak Integrated by Software incorrectly |
| Q1665-21DL | VL042453.D | m/p-Xylene | SAM | 4/30/2025 7:52:12 AM | MMDadoda | 4/30/2025 2:27:54 PM | Peak Integrated by Software incorrectly |
| Q1665-21DL | VL042453.D | Propene | SAM | 4/30/2025 7:52:12 AM | MMDadoda | 4/30/2025 2:27:54 PM | Peak Integrated by Software incorrectly |

**F. Manual Integration Comments:**
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

---

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

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# DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

| | |
|---|---|
| Value | If the result is a value greater than or equal to the detection limit, report the value |
| **U** | Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required. |
| **ND** | Indicates the analyte was analyzed for, but not detected |
| **J** | Indicates an estimated value. This flag is used:<br>(1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.)<br>(2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others. |
| **B** | Indicates the analyte was found in the blank as well as the sample report as "12 B". |
| **E** | Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis. |
| **D** | This flag identifies all compounds identified in an analysis at a secondary dilution factor. |
| **P** | This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P". |
| **N** | This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used. |
| **A** | This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product. |
| **Q** | Indicates the LCS did not meet the control limits requirements |

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## APPENDIX A

## QA REVIEW GENERAL DOCUMENTATION

**Project #:** Q1665

| | Completed |
|---|---|
| **For thorough review, the report must have the following:** | |
| **GENERAL:** | |
| **Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)** | ✓ |
| **Check chain-of-custody for proper relinquish/return of samples** | ✓ |
| **Is the chain of custody signed and complete** | ✓ |
| **Check internal chain-of-custody for proper relinquish/return of samples /sample extracts** | ✓ |
| **Collect information for each project id from server. Were all requirements followed** | ✓ |
| **COVER PAGE:** | |
| **Do numbers of samples correspond to the number of samples in the Chain of Custody on login page** | ✓ |
| **Do lab numbers and client Ids on cover page agree with the Chain of Custody** | ✓ |
| **CHAIN OF CUSTODY:** | |
| **Do requested analyses on Chain of Custody agree with form I results** | ✓ |
| **Do requested analyses on Chain of Custody agree with the log-in page** | ✓ |
| **Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody** | ✓ |
| **Were the samples received within hold time** | ✓ |
| **Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle** | ✓ |
| **ANALYTICAL:** | |
| **Was method requirement followed?** | ✓ |
| **Was client requirement followed?** | ✓ |
| **Does the case narrative summarize all QC failure?** | ✓ |
| **All runlogs and manual integration are reviewed for requirements** | ✓ |
| **All manual calculations and /or hand notations verified** | ✓ |

**QA Review Signature:** MOHAMMAD AHMED **Date:** 07/03/2025

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | Q1665 | **OrderDate:** | 3/27/2025 11:29:02 AM |
| **Client:** | Woodard & Curran | **Project:** | US EPA Riverside Industrial Park Superfund Site |
| **Contact:** | Bryan Maurer | **Location:** | Air Lab |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q1665-01** | **AA-DUP-1-3242025** | **Air** | | | **03/25/25** | | | **03/26/25** |
| | | | TO-15 | TO-15 | | | 04/09/25 | |
| **Q1665-03** | **IA-B10-2-3242025** | **Air** | | | **03/25/25** | | | **03/26/25** |
| | | | TO-15 | TO-15 | | | 04/11/25 | |
| **Q1665-03DL** | **IA-B10-2-3242025DL** | **Air** | | | **03/25/25** | | | **03/26/25** |
| | | | TO-15 | TO-15 | | | 04/11/25 | |
| **Q1665-04** | **AA-1-3242025** | **Air** | | | **03/25/25** | | | **03/26/25** |
| | | | TO-15 | TO-15 | | | 04/09/25 | |
| **Q1665-05** | **IA-B2-3-3242025** | **Air** | | | **03/25/25** | | | **03/26/25** |
| | | | TO-15 | TO-15 | | | 04/28/25 | |
| **Q1665-06** | **IA-B9-1-3242025** | **Air** | | | **03/25/25** | | | **03/26/25** |
| | | | TO-15 | TO-15 | | | 04/09/25 | |
| **Q1665-07** | **IA-DUP-1-3242025** | **Air** | | | **03/25/25** | | | **03/26/25** |
| | | | TO-15 | TO-15 | | | 04/28/25 | |
| **Q1665-07DL** | **IA-DUP-1-3242025DL** | **Air** | | | **03/25/25** | | | **03/26/25** |
| | | | TO-15 | TO-15 | | | 04/29/25 | |
| **Q1665-08** | **IA-DUP-2-3242025** | **Air** | | | **03/24/25** | | | **03/26/25** |
| | | | TO-15 | TO-15 | | | 04/09/25 | |
| **Q1665-09** | **IA-B9-2-3242025** | **Air** | | | **03/25/25** | | | **03/26/25** |
| | | | TO-15 | TO-15 | | | 04/09/25 | |
| **Q1665-10** | **IA-B10-4-3242025** | **Air** | | | **03/25/25** | | | **03/26/25** |
| | | | TO-15 | TO-15 | | | 04/11/25 | |
| **Q1665-10DL** | **IA-B10-4-3242025DL** | **Air** | | | **03/25/25** | | | **03/26/25** |

## LAB CHRONICLE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | TO-15 | TO-15 | | 04/11/25 | |
| Q1665-10DL2 | IA-B10-4-3242025DL2 | Air | | | 03/25/25 | | 03/26/25 |
| | | | TO-15 | TO-15 | | 04/15/25 | |
| Q1665-11 | IA-B10-1-3242025 | Air | | | 03/25/25 | | 03/26/25 |
| | | | TO-15 | TO-15 | | 04/11/25 | |
| Q1665-11DL | IA-B10-1-3242025DL | Air | | | 03/25/25 | | 03/26/25 |
| | | | TO-15 | TO-15 | | 04/11/25 | |
| Q1665-12 | IA-B2-6-3242025 | Air | | | 03/25/25 | | 03/26/25 |
| | | | TO-15 | TO-15 | | 04/28/25 | |
| Q1665-15 | IA-B14-1-3242025 | Air | | | 03/25/25 | | 03/26/25 |
| | | | TO-15 | TO-15 | | 04/17/25 | |
| Q1665-15DL | IA-B14-1-3242025DL | Air | | | 03/25/25 | | 03/26/25 |
| | | | TO-15 | TO-15 | | 04/17/25 | |
| Q1665-16 | IA-B2-5-3242025 | Air | | | 03/25/25 | | 03/26/25 |
| | | | TO-15 | TO-15 | | 04/28/25 | |
| Q1665-18 | IA-B10-3-3242025 | Air | | | 03/25/25 | | 03/26/25 |
| | | | TO-15 | TO-15 | | 04/11/25 | |
| Q1665-18DL | IA-B10-3-3242025DL | Air | | | 03/25/25 | | 03/26/25 |
| | | | TO-15 | TO-15 | | 04/15/25 | |
| Q1665-19 | IA-B2-2-3242025 | Air | | | 03/25/25 | | 03/26/25 |
| | | | TO-15 | TO-15 | | 04/28/25 | |
| Q1665-19DL | IA-B2-2-3242025DL | Air | | | 03/25/25 | | 03/26/25 |
| | | | TO-15 | TO-15 | | 04/29/25 | |
| Q1665-20 | IA-B9-3-3242025 | Air | | | 03/25/25 | | 03/26/25 |
| | | | TO-15 | TO-15 | | 04/09/25 | |
| Q1665-21 | IA-B2-1-3242025 | Air | | | 03/25/25 | | 03/26/25 |
| | | | TO-15 | TO-15 | | 04/28/25 | |
| Q1665-21DL | IA-B2-1-3242025DL | Air | | | 03/25/25 | | 03/26/25 |

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## LAB CHRONICLE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | TO-15 | TO-15 | | 04/29/25 | |
| **Q1665-22** | **IA-B2-4-3242025** | **Air** | | | **03/25/25** | | **03/26/25** |
| | | | TO-15 | TO-15 | | 04/28/25 | |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q1665

**Client:** Woodard & Curran

| Sample ID | Client ID | Matrix | Parameter | | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| **Client ID:** | **AA-DUP-1-3242025** | | | | | | | | |
| Q1665-01 | AA-DUP-1-324202. | Air | Dichlorodifluoromethane | | 1.98 | J | 1.04 | 2.47 | ug/m3 |
| Q1665-01 | AA-DUP-1-324202. | Air | Ethanol | | 25.3 | Q | 0.60 | 0.94 | ug/m3 |
| Q1665-01 | AA-DUP-1-324202. | Air | Chloromethane | | 1.16 | | 0.21 | 1.03 | ug/m3 |
| Q1665-01 | AA-DUP-1-324202. | Air | Trichlorofluoromethane | | 1.18 | J | 0.90 | 2.81 | ug/m3 |
| Q1665-01 | AA-DUP-1-324202. | Air | Heptane | | 0.45 | J | 0.45 | 2.05 | ug/m3 |
| Q1665-01 | AA-DUP-1-324202. | Air | Isopropyl Alcohol | | 4.42 | | 0.17 | 1.23 | ug/m3 |
| Q1665-01 | AA-DUP-1-324202. | Air | Acetone | | 8.55 | | 0.57 | 1.19 | ug/m3 |
| Q1665-01 | AA-DUP-1-324202. | Air | Methylene Chloride | | 3.30 | | 0.66 | 1.74 | ug/m3 |
| Q1665-01 | AA-DUP-1-324202. | Air | 2-Butanone | | 1.06 | J | 0.35 | 1.47 | ug/m3 |
| Q1665-01 | AA-DUP-1-324202. | Air | Carbon Tetrachloride | | 0.44 | | 0.060 | 0.19 | ug/m3 |
| Q1665-01 | AA-DUP-1-324202. | Air | Benzene | | 0.80 | J | 0.29 | 1.60 | ug/m3 |
| Q1665-01 | AA-DUP-1-324202. | Air | Toluene | | 1.21 | J | 0.41 | 1.88 | ug/m3 |
| Q1665-01 | AA-DUP-1-324202. | Air | Hexane | | 5.64 | | 0.39 | 1.76 | ug/m3 |
| | | | **Total Voc :** | | 55.4 | | | | |
| Q1665-01 | AA-DUP-1-324202. | Air | Butane | * | 1.10 | J | 0 | 0 | ppbv |
| Q1665-01 | AA-DUP-1-324202. | Air | Chlorodifluoromethane | * | 0.33 | J | 0.090 | 0.50 | ppbv |
| Q1665-01 | AA-DUP-1-324202. | Air | Propene | * | 0.85 | J | 0.15 | 0.50 | ppbv |
| | | | **Total Tics :** | | 2.28 | | | | |
| | | | **Total Concentration:** | | 57.7 | | | | |
| **Client ID:** | **IA-B10-2-3242025** | | | | | | | | |
| Q1665-03 | IA-B10-2-3242025 | Air | Dichlorodifluoromethane | | 1.98 | J | 1.04 | 2.47 | ug/m3 |
| Q1665-03 | IA-B10-2-3242025 | Air | Ethanol | | 2450 | EQ | 0.60 | 0.94 | ug/m3 |
| Q1665-03 | IA-B10-2-3242025 | Air | Chloromethane | | 1.22 | | 0.21 | 1.03 | ug/m3 |
| Q1665-03 | IA-B10-2-3242025 | Air | Trichlorofluoromethane | | 1.18 | J | 0.90 | 2.81 | ug/m3 |
| Q1665-03 | IA-B10-2-3242025 | Air | tert-Butyl alcohol | | 1.42 | J | 0.58 | 1.52 | ug/m3 |
| Q1665-03 | IA-B10-2-3242025 | Air | Heptane | | 0.70 | J | 0.45 | 2.05 | ug/m3 |
| Q1665-03 | IA-B10-2-3242025 | Air | Isopropyl Alcohol | | 199 | E | 0.17 | 1.23 | ug/m3 |
| Q1665-03 | IA-B10-2-3242025 | Air | Acetone | | 196 | E | 0.57 | 1.19 | ug/m3 |
| Q1665-03 | IA-B10-2-3242025 | Air | Methylene Chloride | | 5.56 | | 0.66 | 1.74 | ug/m3 |
| Q1665-03 | IA-B10-2-3242025 | Air | 2-Butanone | | 79.0 | E | 0.35 | 1.47 | ug/m3 |
| Q1665-03 | IA-B10-2-3242025 | Air | Carbon Tetrachloride | | 0.57 | | 0.060 | 0.19 | ug/m3 |
| Q1665-03 | IA-B10-2-3242025 | Air | Chloroform | | 6.84 | | 0.39 | 2.44 | ug/m3 |
| Q1665-03 | IA-B10-2-3242025 | Air | Benzene | | 1.92 | | 0.29 | 1.60 | ug/m3 |
| Q1665-03 | IA-B10-2-3242025 | Air | Toluene | | 1.85 | J | 0.41 | 1.88 | ug/m3 |
| Q1665-03 | IA-B10-2-3242025 | Air | Tetrachloroethene | | 0.27 | | 0.14 | 0.20 | ug/m3 |
| Q1665-03 | IA-B10-2-3242025 | Air | o-Xylene | | 0.52 | J | 0.52 | 2.17 | ug/m3 |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q1665

**Client:** Woodard & Curran

| Sample ID | Client ID | Matrix | Parameter | | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| Q1665-03 | IA-B10-2-3242025 | Air | 1,2,4-Trimethylbenzene | | 0.59 | J | 0.39 | 2.46 | ug/m3 |
| Q1665-03 | IA-B10-2-3242025 | Air | Hexane | | 8.81 | | 0.39 | 1.76 | ug/m3 |
| | | | **Total Voc :** | | 2960 | | | | |
| Q1665-03 | IA-B10-2-3242025 | Air | Butane | * | 1.30 | J | 0 | 0 | ppbv |
| Q1665-03 | IA-B10-2-3242025 | Air | Plumbane, diethyldimethyl- | * | 65.1 | J | 0 | 0 | ppbv |
| Q1665-03 | IA-B10-2-3242025 | Air | D-Limonene | * | 21.3 | J | 0 | 0 | ppbv |
| Q1665-03 | IA-B10-2-3242025 | Air | Butanoic acid, 2-methyl-, ethyl | * | 1.50 | J | 0 | 0 | ppbv |
| Q1665-03 | IA-B10-2-3242025 | Air | Propene | * | 4.30 | J | 0.15 | 0.50 | ppbv |
| | | | **Total Tics :** | | 93.5 | | | | |
| | | | **Total Concentration:** | | 3050 | | | | |
| **Client ID:** | **IA-B10-2-3242025DL** | | | | | | | | |
| Q1665-03DL | IA-B10-2-3242025I | Air | Ethanol | | 3390 | EDQ | 6.03 | 9.42 | ug/m3 |
| Q1665-03DL | IA-B10-2-3242025I | Air | Isopropyl Alcohol | | 216 | D | 1.70 | 12.3 | ug/m3 |
| Q1665-03DL | IA-B10-2-3242025I | Air | Acetone | | 333 | D | 5.70 | 11.9 | ug/m3 |
| Q1665-03DL | IA-B10-2-3242025I | Air | Methylene Chloride | | 11.5 | JD | 6.60 | 17.4 | ug/m3 |
| Q1665-03DL | IA-B10-2-3242025I | Air | 2-Butanone | | 63.4 | D | 3.54 | 14.8 | ug/m3 |
| Q1665-03DL | IA-B10-2-3242025I | Air | Chloroform | | 6.84 | JD | 4.05 | 24.4 | ug/m3 |
| Q1665-03DL | IA-B10-2-3242025I | Air | Hexane | | 6.70 | JD | 3.88 | 17.6 | ug/m3 |
| | | | **Total Voc :** | | 4030 | | | | |
| | | | **Total Concentration:** | | 4030 | | | | |
| **Client ID:** | **AA-1-3242025** | | | | | | | | |
| Q1665-04 | AA-1-3242025 | Air | Dichlorodifluoromethane | | 1.98 | J | 1.04 | 2.47 | ug/m3 |
| Q1665-04 | AA-1-3242025 | Air | Ethanol | | 24.1 | Q | 0.60 | 0.94 | ug/m3 |
| Q1665-04 | AA-1-3242025 | Air | Chloromethane | | 1.14 | | 0.21 | 1.03 | ug/m3 |
| Q1665-04 | AA-1-3242025 | Air | Trichlorofluoromethane | | 1.18 | J | 0.90 | 2.81 | ug/m3 |
| Q1665-04 | AA-1-3242025 | Air | Isopropyl Alcohol | | 2.95 | | 0.17 | 1.23 | ug/m3 |
| Q1665-04 | AA-1-3242025 | Air | Acetone | | 8.31 | | 0.57 | 1.19 | ug/m3 |
| Q1665-04 | AA-1-3242025 | Air | Methylene Chloride | | 2.33 | | 0.66 | 1.74 | ug/m3 |
| Q1665-04 | AA-1-3242025 | Air | 2-Butanone | | 1.03 | J | 0.35 | 1.47 | ug/m3 |
| Q1665-04 | AA-1-3242025 | Air | Carbon Tetrachloride | | 0.57 | | 0.060 | 0.19 | ug/m3 |
| Q1665-04 | AA-1-3242025 | Air | Benzene | | 0.80 | J | 0.29 | 1.60 | ug/m3 |
| Q1665-04 | AA-1-3242025 | Air | Toluene | | 1.06 | J | 0.41 | 1.88 | ug/m3 |
| Q1665-04 | AA-1-3242025 | Air | Hexane | | 3.88 | | 0.39 | 1.76 | ug/m3 |
| | | | **Total Voc :** | | 49.4 | | | | |
| Q1665-04 | AA-1-3242025 | Air | Butane | * | 1.00 | J | 0 | 0 | ppbv |
| Q1665-04 | AA-1-3242025 | Air | Chlorodifluoromethane | * | 0.29 | J | 0.090 | 0.50 | ppbv |
| Q1665-04 | AA-1-3242025 | Air | Propene | * | 0.75 | J | 0.15 | 0.50 | ppbv |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q1665

**Client:** Woodard & Curran

| Sample ID | Client ID | Matrix | Parameter | | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| | | | **Total Tics :** | | 2.04 | | | | |
| | | | **Total Concentration:** | | 51.4 | | | | |
| **Client ID:** | **IA-B2-3-3242025** | | | | | | | | |
| Q1665-05 | IA-B2-3-3242025 | Air | Dichlorodifluoromethane | | 2.27 | J | 1.04 | 2.47 | ug/m3 |
| Q1665-05 | IA-B2-3-3242025 | Air | Ethanol | | 509 | EQ | 0.60 | 0.94 | ug/m3 |
| Q1665-05 | IA-B2-3-3242025 | Air | Chloromethane | | 0.99 | J | 0.21 | 1.03 | ug/m3 |
| Q1665-05 | IA-B2-3-3242025 | Air | Trichlorofluoromethane | | 1.18 | J | 0.90 | 2.81 | ug/m3 |
| Q1665-05 | IA-B2-3-3242025 | Air | tert-Butyl alcohol | | 9.40 | | 0.58 | 1.52 | ug/m3 |
| Q1665-05 | IA-B2-3-3242025 | Air | Heptane | | 2.05 | | 0.45 | 2.05 | ug/m3 |
| Q1665-05 | IA-B2-3-3242025 | Air | Isopropyl Alcohol | | 79.2 | E | 0.17 | 1.23 | ug/m3 |
| Q1665-05 | IA-B2-3-3242025 | Air | Acetone | | 34.9 | | 0.57 | 1.19 | ug/m3 |
| Q1665-05 | IA-B2-3-3242025 | Air | Methylene Chloride | | 4.17 | | 0.66 | 1.74 | ug/m3 |
| Q1665-05 | IA-B2-3-3242025 | Air | Cyclohexane | | 0.86 | J | 0.76 | 1.72 | ug/m3 |
| Q1665-05 | IA-B2-3-3242025 | Air | 2-Butanone | | 2.57 | | 0.35 | 1.47 | ug/m3 |
| Q1665-05 | IA-B2-3-3242025 | Air | Carbon Tetrachloride | | 0.50 | | 0.060 | 0.19 | ug/m3 |
| Q1665-05 | IA-B2-3-3242025 | Air | 2,2,4-Trimethylpentane | | 3.55 | | 0.47 | 2.34 | ug/m3 |
| Q1665-05 | IA-B2-3-3242025 | Air | Benzene | | 1.57 | J | 0.29 | 1.60 | ug/m3 |
| Q1665-05 | IA-B2-3-3242025 | Air | 1,2-Dichloroethane | | 1.86 | J | 0.36 | 2.02 | ug/m3 |
| Q1665-05 | IA-B2-3-3242025 | Air | 4-Methyl-2-Pentanone | | 1.48 | J | 0.37 | 2.05 | ug/m3 |
| Q1665-05 | IA-B2-3-3242025 | Air | Toluene | | 17.3 | | 0.41 | 1.88 | ug/m3 |
| Q1665-05 | IA-B2-3-3242025 | Air | Tetrachloroethene | | 0.34 | | 0.14 | 0.20 | ug/m3 |
| Q1665-05 | IA-B2-3-3242025 | Air | Ethyl Benzene | | 2.43 | | 0.52 | 2.17 | ug/m3 |
| Q1665-05 | IA-B2-3-3242025 | Air | m/p-Xylene | | 6.08 | | 0.91 | 4.34 | ug/m3 |
| Q1665-05 | IA-B2-3-3242025 | Air | o-Xylene | | 2.52 | | 0.52 | 2.17 | ug/m3 |
| Q1665-05 | IA-B2-3-3242025 | Air | Styrene | | 1.96 | J | 0.47 | 2.13 | ug/m3 |
| Q1665-05 | IA-B2-3-3242025 | Air | 1,3,5-Trimethylbenzene | | 0.88 | J | 0.54 | 2.46 | ug/m3 |
| Q1665-05 | IA-B2-3-3242025 | Air | 1,2,4-Trimethylbenzene | | 2.36 | J | 0.39 | 2.46 | ug/m3 |
| Q1665-05 | IA-B2-3-3242025 | Air | Naphthalene | | 0.58 | | 0.42 | 0.52 | ug/m3 |
| Q1665-05 | IA-B2-3-3242025 | Air | 4-Ethyltoluene | | 0.69 | J | 0.59 | 2.46 | ug/m3 |
| Q1665-05 | IA-B2-3-3242025 | Air | Hexane | | 8.11 | | 0.39 | 1.76 | ug/m3 |
| | | | **Total Voc :** | | 699 | | | | |
| Q1665-05 | IA-B2-3-3242025 | Air | Hexanal | * | 1.90 | J | 0 | 0 | ppbv |
| Q1665-05 | IA-B2-3-3242025 | Air | 1-Propanol | * | 3.20 | J | 0 | 0 | ppbv |
| Q1665-05 | IA-B2-3-3242025 | Air | .alpha.-Pinene | * | 2.10 | J | 0 | 0 | ppbv |
| Q1665-05 | IA-B2-3-3242025 | Air | Butane | * | 5.90 | J | 0 | 0 | ppbv |
| Q1665-05 | IA-B2-3-3242025 | Air | Pentane, 2-methyl- | * | 1.90 | J | 0 | 0 | ppbv |
| Q1665-05 | IA-B2-3-3242025 | Air | Di-tert-butyl peroxide | * | 3.50 | J | 0 | 0 | ppbv |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q1665

**Client:** Woodard & Curran

| Sample ID | Client ID | Matrix | Parameter | | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| Q1665-05 | IA-B2-3-3242025 | Air | Chlorodifluoromethane | * | 0.16 | J | 0.090 | 0.50 | ppbv |
| Q1665-05 | IA-B2-3-3242025 | Air | Propene | * | 1.80 | J | 0.15 | 0.50 | ppbv |
| Q1665-05 | IA-B2-3-3242025 | Air | n-propylbenzene | * | 0.12 | J | 0.080 | 0.50 | ppbv |
| | | | **Total Tics :** | | 20.6 | | | | |
| | | | **Total Concentration:** | | 719 | | | | |
| **Client ID:** | **IA-B9-1-3242025** | | | | | | | | |
| Q1665-06 | IA-B9-1-3242025 | Air | Dichlorodifluoromethane | | 1.83 | J | 1.04 | 2.47 | ug/m3 |
| Q1665-06 | IA-B9-1-3242025 | Air | Ethanol | | 71.2 | EQ | 0.60 | 0.94 | ug/m3 |
| Q1665-06 | IA-B9-1-3242025 | Air | Chloromethane | | 1.20 | | 0.21 | 1.03 | ug/m3 |
| Q1665-06 | IA-B9-1-3242025 | Air | Tetrahydrofuran | | 0.97 | J | 0.38 | 1.47 | ug/m3 |
| Q1665-06 | IA-B9-1-3242025 | Air | Trichlorofluoromethane | | 1.24 | J | 0.90 | 2.81 | ug/m3 |
| Q1665-06 | IA-B9-1-3242025 | Air | Heptane | | 0.49 | J | 0.45 | 2.05 | ug/m3 |
| Q1665-06 | IA-B9-1-3242025 | Air | Isopropyl Alcohol | | 57.5 | E | 0.17 | 1.23 | ug/m3 |
| Q1665-06 | IA-B9-1-3242025 | Air | Acetone | | 20.2 | | 0.57 | 1.19 | ug/m3 |
| Q1665-06 | IA-B9-1-3242025 | Air | Methylene Chloride | | 3.82 | | 0.66 | 1.74 | ug/m3 |
| Q1665-06 | IA-B9-1-3242025 | Air | 2-Butanone | | 13.9 | | 0.35 | 1.47 | ug/m3 |
| Q1665-06 | IA-B9-1-3242025 | Air | Carbon Tetrachloride | | 0.50 | | 0.060 | 0.19 | ug/m3 |
| Q1665-06 | IA-B9-1-3242025 | Air | Benzene | | 0.93 | J | 0.29 | 1.60 | ug/m3 |
| Q1665-06 | IA-B9-1-3242025 | Air | Toluene | | 1.81 | J | 0.41 | 1.88 | ug/m3 |
| Q1665-06 | IA-B9-1-3242025 | Air | Chlorobenzene | | 1.11 | J | 0.37 | 2.30 | ug/m3 |
| Q1665-06 | IA-B9-1-3242025 | Air | Hexane | | 7.05 | | 0.39 | 1.76 | ug/m3 |
| | | | **Total Voc :** | | 184 | | | | |
| Q1665-06 | IA-B9-1-3242025 | Air | .alpha.-Pinene | * | 1.70 | J | 0 | 0 | ppbv |
| Q1665-06 | IA-B9-1-3242025 | Air | Benzaldehyde | * | 6.60 | J | 0 | 0 | ppbv |
| Q1665-06 | IA-B9-1-3242025 | Air | Butane | * | 1.30 | J | 0 | 0 | ppbv |
| Q1665-06 | IA-B9-1-3242025 | Air | Chlorodifluoromethane | * | 0.90 | J | 0.090 | 0.50 | ppbv |
| Q1665-06 | IA-B9-1-3242025 | Air | Propene | * | 2.20 | J | 0.15 | 0.50 | ppbv |
| | | | **Total Tics :** | | 12.7 | | | | |
| | | | **Total Concentration:** | | 196 | | | | |
| **Client ID:** | **IA-DUP-1-3242025** | | | | | | | | |
| Q1665-07 | IA-DUP-1-3242025 | Air | Dichlorodifluoromethane | | 2.13 | J | 1.04 | 2.47 | ug/m3 |
| Q1665-07 | IA-DUP-1-3242025 | Air | Ethanol | | 509 | EQ | 0.60 | 0.94 | ug/m3 |
| Q1665-07 | IA-DUP-1-3242025 | Air | Chloromethane | | 1.16 | | 0.21 | 1.03 | ug/m3 |
| Q1665-07 | IA-DUP-1-3242025 | Air | Tetrahydrofuran | | 0.50 | J | 0.38 | 1.47 | ug/m3 |
| Q1665-07 | IA-DUP-1-3242025 | Air | Trichlorofluoromethane | | 1.18 | J | 0.90 | 2.81 | ug/m3 |
| Q1665-07 | IA-DUP-1-3242025 | Air | tert-Butyl alcohol | | 9.09 | | 0.58 | 1.52 | ug/m3 |
| Q1665-07 | IA-DUP-1-3242025 | Air | Heptane | | 1.93 | J | 0.45 | 2.05 | ug/m3 |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q1665

**Client:** Woodard & Curran

| Sample ID | Client ID | Matrix | Parameter | | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| Q1665-07 | IA-DUP-1-3242025 | Air | Isopropyl Alcohol | | 82.1 | E | 0.17 | 1.23 | ug/m3 |
| Q1665-07 | IA-DUP-1-3242025 | Air | Acetone | | 41.1 | E | 0.57 | 1.19 | ug/m3 |
| Q1665-07 | IA-DUP-1-3242025 | Air | Methylene Chloride | | 3.44 | | 0.66 | 1.74 | ug/m3 |
| Q1665-07 | IA-DUP-1-3242025 | Air | Cyclohexane | | 0.83 | J | 0.76 | 1.72 | ug/m3 |
| Q1665-07 | IA-DUP-1-3242025 | Air | 2-Butanone | | 2.51 | | 0.35 | 1.47 | ug/m3 |
| Q1665-07 | IA-DUP-1-3242025 | Air | Carbon Tetrachloride | | 0.44 | | 0.060 | 0.19 | ug/m3 |
| Q1665-07 | IA-DUP-1-3242025 | Air | 2,2,4-Trimethylpentane | | 2.94 | | 0.47 | 2.34 | ug/m3 |
| Q1665-07 | IA-DUP-1-3242025 | Air | Benzene | | 1.57 | J | 0.29 | 1.60 | ug/m3 |
| Q1665-07 | IA-DUP-1-3242025 | Air | 1,2-Dichloroethane | | 1.94 | J | 0.36 | 2.02 | ug/m3 |
| Q1665-07 | IA-DUP-1-3242025 | Air | 4-Methyl-2-Pentanone | | 1.48 | J | 0.37 | 2.05 | ug/m3 |
| Q1665-07 | IA-DUP-1-3242025 | Air | Toluene | | 16.6 | | 0.41 | 1.88 | ug/m3 |
| Q1665-07 | IA-DUP-1-3242025 | Air | Tetrachloroethene | | 0.34 | | 0.14 | 0.20 | ug/m3 |
| Q1665-07 | IA-DUP-1-3242025 | Air | Ethyl Benzene | | 2.26 | | 0.52 | 2.17 | ug/m3 |
| Q1665-07 | IA-DUP-1-3242025 | Air | m/p-Xylene | | 5.65 | | 0.91 | 4.34 | ug/m3 |
| Q1665-07 | IA-DUP-1-3242025 | Air | o-Xylene | | 2.22 | | 0.52 | 2.17 | ug/m3 |
| Q1665-07 | IA-DUP-1-3242025 | Air | Styrene | | 1.83 | J | 0.47 | 2.13 | ug/m3 |
| Q1665-07 | IA-DUP-1-3242025 | Air | 1,3,5-Trimethylbenzene | | 0.74 | J | 0.54 | 2.46 | ug/m3 |
| Q1665-07 | IA-DUP-1-3242025 | Air | 1,2,4-Trimethylbenzene | | 2.21 | J | 0.39 | 2.46 | ug/m3 |
| Q1665-07 | IA-DUP-1-3242025 | Air | 4-Ethyltoluene | | 0.69 | J | 0.59 | 2.46 | ug/m3 |
| Q1665-07 | IA-DUP-1-3242025 | Air | Hexane | | 8.11 | | 0.39 | 1.76 | ug/m3 |
| | | | **Total Voc :** | | 704 | | | | |
| Q1665-07 | IA-DUP-1-3242025 | Air | Hexanal | * | 1.90 | J | 0 | 0 | ppbv |
| Q1665-07 | IA-DUP-1-3242025 | Air | .alpha.-Pinene | * | 2.20 | J | 0 | 0 | ppbv |
| Q1665-07 | IA-DUP-1-3242025 | Air | Butane | * | 5.40 | J | 0 | 0 | ppbv |
| Q1665-07 | IA-DUP-1-3242025 | Air | Pentane, 2-methyl- | * | 1.90 | J | 0 | 0 | ppbv |
| Q1665-07 | IA-DUP-1-3242025 | Air | Di-tert-butyl peroxide | * | 3.30 | J | 0 | 0 | ppbv |
| Q1665-07 | IA-DUP-1-3242025 | Air | 2-Fluoropropene | * | 3.50 | J | 0 | 0 | ppbv |
| Q1665-07 | IA-DUP-1-3242025 | Air | Chlorodifluoromethane | * | 0.23 | J | 0.090 | 0.50 | ppbv |
| Q1665-07 | IA-DUP-1-3242025 | Air | Propene | * | 1.70 | J | 0.15 | 0.50 | ppbv |
| Q1665-07 | IA-DUP-1-3242025 | Air | n-propylbenzene | * | 0.12 | J | 0.080 | 0.50 | ppbv |
| | | | **Total Tics :** | | 20.3 | | | | |
| | | | **Total Concentration:** | | 724 | | | | |
| **Client ID:** | **IA-DUP-1-3242025DL** | | | | | | | | |
| Q1665-07DL | IA-DUP-1-3242025 | Air | Ethanol | | 528 | EDQ | 2.45 | 3.77 | ug/m3 |
| Q1665-07DL | IA-DUP-1-3242025 | Air | tert-Butyl alcohol | | 8.49 | D | 2.30 | 6.06 | ug/m3 |
| Q1665-07DL | IA-DUP-1-3242025 | Air | Isopropyl Alcohol | | 78.9 | D | 0.69 | 4.92 | ug/m3 |
| Q1665-07DL | IA-DUP-1-3242025 | Air | Acetone | | 40.6 | D | 2.28 | 4.75 | ug/m3 |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q1665

**Client:** Woodard & Curran

| Sample ID | Client ID | Matrix | Parameter | | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| Q1665-07DL | IA-DUP-1-3242025 | Air | 2-Butanone | | 2.62 | JD | 1.42 | 5.90 | ug/m3 |
| Q1665-07DL | IA-DUP-1-3242025 | Air | 2,2,4-Trimethylpentane | | 2.24 | JD | 1.87 | 9.34 | ug/m3 |
| Q1665-07DL | IA-DUP-1-3242025 | Air | Benzene | | 1.28 | JD | 1.12 | 6.39 | ug/m3 |
| Q1665-07DL | IA-DUP-1-3242025 | Air | Toluene | | 12.1 | D | 1.66 | 7.54 | ug/m3 |
| Q1665-07DL | IA-DUP-1-3242025 | Air | Hexane | | 5.64 | JD | 1.55 | 7.05 | ug/m3 |
| | | | **Total Voc :** | | 679 | | | | |
| | | | **Total Concentration:** | | 679 | | | | |
| **Client ID:** | **IA-DUP-2-3242025** | | | | | | | | |
| Q1665-08 | IA-DUP-2-3242025 | Air | Dichlorodifluoromethane | | 1.88 | J | 1.04 | 2.47 | ug/m3 |
| Q1665-08 | IA-DUP-2-3242025 | Air | Ethanol | | 64.4 | EQ | 0.60 | 0.94 | ug/m3 |
| Q1665-08 | IA-DUP-2-3242025 | Air | Chloromethane | | 2.27 | | 0.21 | 1.03 | ug/m3 |
| Q1665-08 | IA-DUP-2-3242025 | Air | Tetrahydrofuran | | 0.62 | J | 0.38 | 1.47 | ug/m3 |
| Q1665-08 | IA-DUP-2-3242025 | Air | Trichlorofluoromethane | | 1.40 | J | 0.90 | 2.81 | ug/m3 |
| Q1665-08 | IA-DUP-2-3242025 | Air | Isopropyl Alcohol | | 44.0 | E | 0.17 | 1.23 | ug/m3 |
| Q1665-08 | IA-DUP-2-3242025 | Air | Acetone | | 27.6 | | 0.57 | 1.19 | ug/m3 |
| Q1665-08 | IA-DUP-2-3242025 | Air | Methylene Chloride | | 3.47 | | 0.66 | 1.74 | ug/m3 |
| Q1665-08 | IA-DUP-2-3242025 | Air | 2-Butanone | | 9.73 | | 0.35 | 1.47 | ug/m3 |
| Q1665-08 | IA-DUP-2-3242025 | Air | Carbon Tetrachloride | | 0.82 | | 0.060 | 0.19 | ug/m3 |
| Q1665-08 | IA-DUP-2-3242025 | Air | Chloroform | | 1.56 | J | 0.39 | 2.44 | ug/m3 |
| Q1665-08 | IA-DUP-2-3242025 | Air | Benzene | | 0.54 | J | 0.29 | 1.60 | ug/m3 |
| Q1665-08 | IA-DUP-2-3242025 | Air | Hexane | | 3.31 | | 0.39 | 1.76 | ug/m3 |
| | | | **Total Voc :** | | 162 | | | | |
| Q1665-08 | IA-DUP-2-3242025 | Air | Butane | * | 1.30 | J | 0 | 0 | ppbv |
| Q1665-08 | IA-DUP-2-3242025 | Air | Chlorodifluoromethane | * | 0.96 | J | 0.090 | 0.50 | ppbv |
| Q1665-08 | IA-DUP-2-3242025 | Air | Propene | * | 2.40 | J | 0.15 | 0.50 | ppbv |
| | | | **Total Tics :** | | 4.66 | | | | |
| | | | **Total Concentration:** | | 166 | | | | |
| **Client ID:** | **IA-B9-2-3242025** | | | | | | | | |
| Q1665-09 | IA-B9-2-3242025 | Air | Dichlorodifluoromethane | | 2.08 | J | 1.04 | 2.47 | ug/m3 |
| Q1665-09 | IA-B9-2-3242025 | Air | Ethanol | | 48.2 | EQ | 0.60 | 0.94 | ug/m3 |
| Q1665-09 | IA-B9-2-3242025 | Air | Chloromethane | | 1.20 | | 0.21 | 1.03 | ug/m3 |
| Q1665-09 | IA-B9-2-3242025 | Air | Trichlorofluoromethane | | 1.24 | J | 0.90 | 2.81 | ug/m3 |
| Q1665-09 | IA-B9-2-3242025 | Air | Heptane | | 0.49 | J | 0.45 | 2.05 | ug/m3 |
| Q1665-09 | IA-B9-2-3242025 | Air | Isopropyl Alcohol | | 52.1 | E | 0.17 | 1.23 | ug/m3 |
| Q1665-09 | IA-B9-2-3242025 | Air | Acetone | | 15.2 | | 0.57 | 1.19 | ug/m3 |
| Q1665-09 | IA-B9-2-3242025 | Air | Methylene Chloride | | 4.17 | | 0.66 | 1.74 | ug/m3 |
| Q1665-09 | IA-B9-2-3242025 | Air | 2-Butanone | | 9.44 | | 0.35 | 1.47 | ug/m3 |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q1665

**Client:** Woodard & Curran

| Sample ID | Client ID | Matrix | Parameter | | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| Q1665-09 | IA-B9-2-3242025 | Air | Carbon Tetrachloride | | 0.57 | | 0.060 | 0.19 | ug/m3 |
| Q1665-09 | IA-B9-2-3242025 | Air | Benzene | | 0.96 | J | 0.29 | 1.60 | ug/m3 |
| Q1665-09 | IA-B9-2-3242025 | Air | Toluene | | 1.47 | J | 0.41 | 1.88 | ug/m3 |
| Q1665-09 | IA-B9-2-3242025 | Air | Chlorobenzene | | 0.92 | J | 0.37 | 2.30 | ug/m3 |
| Q1665-09 | IA-B9-2-3242025 | Air | Hexane | | 6.70 | | 0.39 | 1.76 | ug/m3 |
| | | | **Total Voc :** | | 145 | | | | |
| Q1665-09 | IA-B9-2-3242025 | Air | .alpha.-Pinene | * | 1.10 | J | 0 | 0 | ppbv |
| Q1665-09 | IA-B9-2-3242025 | Air | Benzaldehyde | * | 2.30 | J | 0 | 0 | ppbv |
| Q1665-09 | IA-B9-2-3242025 | Air | Butane | * | 2.10 | J | 0 | 0 | ppbv |
| Q1665-09 | IA-B9-2-3242025 | Air | Chlorodifluoromethane | * | 0.83 | J | 0.090 | 0.50 | ppbv |
| Q1665-09 | IA-B9-2-3242025 | Air | Propene | * | 4.50 | J | 0.15 | 0.50 | ppbv |
| | | | **Total Tics :** | | 10.8 | | | | |
| | | | **Total Concentration:** | | 156 | | | | |
| **Client ID:** | **IA-B10-4-3242025** | | | | | | | | |
| Q1665-10 | IA-B10-4-3242025 | Air | Dichlorodifluoromethane | | 1.93 | J | 1.04 | 2.47 | ug/m3 |
| Q1665-10 | IA-B10-4-3242025 | Air | Ethanol | | 1640 | EQ | 0.60 | 0.94 | ug/m3 |
| Q1665-10 | IA-B10-4-3242025 | Air | Chloromethane | | 1.26 | | 0.21 | 1.03 | ug/m3 |
| Q1665-10 | IA-B10-4-3242025 | Air | Trichlorofluoromethane | | 1.07 | J | 0.90 | 2.81 | ug/m3 |
| Q1665-10 | IA-B10-4-3242025 | Air | tert-Butyl alcohol | | 0.64 | J | 0.58 | 1.52 | ug/m3 |
| Q1665-10 | IA-B10-4-3242025 | Air | Heptane | | 0.57 | J | 0.45 | 2.05 | ug/m3 |
| Q1665-10 | IA-B10-4-3242025 | Air | Isopropyl Alcohol | | 516 | E | 0.17 | 1.23 | ug/m3 |
| Q1665-10 | IA-B10-4-3242025 | Air | Acetone | | 182 | E | 0.57 | 1.19 | ug/m3 |
| Q1665-10 | IA-B10-4-3242025 | Air | Methylene Chloride | | 2.05 | | 0.66 | 1.74 | ug/m3 |
| Q1665-10 | IA-B10-4-3242025 | Air | 2-Butanone | | 472 | E | 0.35 | 1.47 | ug/m3 |
| Q1665-10 | IA-B10-4-3242025 | Air | Carbon Tetrachloride | | 0.50 | | 0.060 | 0.19 | ug/m3 |
| Q1665-10 | IA-B10-4-3242025 | Air | Chloroform | | 2.83 | | 0.39 | 2.44 | ug/m3 |
| Q1665-10 | IA-B10-4-3242025 | Air | 2,2,4-Trimethylpentane | | 0.47 | J | 0.47 | 2.34 | ug/m3 |
| Q1665-10 | IA-B10-4-3242025 | Air | Benzene | | 1.50 | J | 0.29 | 1.60 | ug/m3 |
| Q1665-10 | IA-B10-4-3242025 | Air | Toluene | | 1.58 | J | 0.41 | 1.88 | ug/m3 |
| Q1665-10 | IA-B10-4-3242025 | Air | 1,2,4-Trimethylbenzene | | 0.54 | J | 0.39 | 2.46 | ug/m3 |
| Q1665-10 | IA-B10-4-3242025 | Air | Hexane | | 7.75 | | 0.39 | 1.76 | ug/m3 |
| | | | **Total Voc :** | | 2830 | | | | |
| Q1665-10 | IA-B10-4-3242025 | Air | Limonene | * | 6.40 | J | 0 | 0 | ppbv |
| Q1665-10 | IA-B10-4-3242025 | Air | Chlorodifluoromethane | * | 0.31 | J | 0.090 | 0.50 | ppbv |
| Q1665-10 | IA-B10-4-3242025 | Air | Propene | * | 110 | J | 0.15 | 0.50 | ppbv |
| | | | **Total Tics :** | | 117 | | | | |
| | | | **Total Concentration:** | | 2950 | | | | |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q1665

**Client:** Woodard & Curran

| Sample ID | Client ID | Matrix | Parameter | | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| **Client ID:** | **IA-B10-4-3242025DL** | | | | | | | | |
| Q1665-10DL | IA-B10-4-3242025I | Air | Ethanol | | 2070 | EDQ | 24.1 | 37.7 | ug/m3 |
| Q1665-10DL | IA-B10-4-3242025I | Air | Isopropyl Alcohol | | 1500 | ED | 6.88 | 49.2 | ug/m3 |
| Q1665-10DL | IA-B10-4-3242025I | Air | Acetone | | 333 | D | 22.8 | 47.5 | ug/m3 |
| Q1665-10DL | IA-B10-4-3242025I | Air | 2-Butanone | | 2060 | ED | 14.2 | 59.0 | ug/m3 |
| | | | **Total Voc :** | | 5970 | | | | |
| | | | **Total Concentration:** | | 5970 | | | | |
| **Client ID:** | **IA-B10-4-3242025DL2** | | | | | | | | |
| Q1665-10DL2 | IA-B10-4-3242025I | Air | Ethanol | | 1490 | DQ | 60.3 | 94.2 | ug/m3 |
| Q1665-10DL2 | IA-B10-4-3242025I | Air | Isopropyl Alcohol | | 1060 | D | 17.0 | 123 | ug/m3 |
| Q1665-10DL2 | IA-B10-4-3242025I | Air | Acetone | | 285 | D | 57.0 | 119 | ug/m3 |
| Q1665-10DL2 | IA-B10-4-3242025I | Air | 2-Butanone | | 1420 | D | 35.4 | 147 | ug/m3 |
| | | | **Total Voc :** | | 4250 | | | | |
| | | | **Total Concentration:** | | 4250 | | | | |
| **Client ID:** | **IA-B10-1-3242025** | | | | | | | | |
| Q1665-11 | IA-B10-1-3242025 | Air | Dichlorodifluoromethane | | 2.13 | J | 1.04 | 2.47 | ug/m3 |
| Q1665-11 | IA-B10-1-3242025 | Air | Ethanol | | 2070 | EQ | 0.60 | 0.94 | ug/m3 |
| Q1665-11 | IA-B10-1-3242025 | Air | Chloromethane | | 1.22 | | 0.21 | 1.03 | ug/m3 |
| Q1665-11 | IA-B10-1-3242025 | Air | Trichlorofluoromethane | | 1.24 | J | 0.90 | 2.81 | ug/m3 |
| Q1665-11 | IA-B10-1-3242025 | Air | tert-Butyl alcohol | | 1.27 | J | 0.58 | 1.52 | ug/m3 |
| Q1665-11 | IA-B10-1-3242025 | Air | Isopropyl Alcohol | | 126 | E | 0.17 | 1.23 | ug/m3 |
| Q1665-11 | IA-B10-1-3242025 | Air | Acetone | | 186 | E | 0.57 | 1.19 | ug/m3 |
| Q1665-11 | IA-B10-1-3242025 | Air | Methylene Chloride | | 51.4 | | 0.66 | 1.74 | ug/m3 |
| Q1665-11 | IA-B10-1-3242025 | Air | 2-Butanone | | 36.3 | | 0.35 | 1.47 | ug/m3 |
| Q1665-11 | IA-B10-1-3242025 | Air | Carbon Tetrachloride | | 0.50 | | 0.060 | 0.19 | ug/m3 |
| Q1665-11 | IA-B10-1-3242025 | Air | Chloroform | | 5.37 | | 0.39 | 2.44 | ug/m3 |
| Q1665-11 | IA-B10-1-3242025 | Air | Benzene | | 1.47 | J | 0.29 | 1.60 | ug/m3 |
| Q1665-11 | IA-B10-1-3242025 | Air | 4-Methyl-2-Pentanone | | 0.66 | J | 0.37 | 2.05 | ug/m3 |
| Q1665-11 | IA-B10-1-3242025 | Air | Toluene | | 1.51 | J | 0.41 | 1.88 | ug/m3 |
| Q1665-11 | IA-B10-1-3242025 | Air | m/p-Xylene | | 0.96 | J | 0.91 | 4.34 | ug/m3 |
| Q1665-11 | IA-B10-1-3242025 | Air | o-Xylene | | 0.65 | J | 0.52 | 2.17 | ug/m3 |
| Q1665-11 | IA-B10-1-3242025 | Air | 1,3,5-Trimethylbenzene | | 0.79 | J | 0.54 | 2.46 | ug/m3 |
| Q1665-11 | IA-B10-1-3242025 | Air | 1,2,4-Trimethylbenzene | | 2.80 | | 0.39 | 2.46 | ug/m3 |
| Q1665-11 | IA-B10-1-3242025 | Air | Hexane | | 28.6 | | 0.39 | 1.76 | ug/m3 |
| | | | **Total Voc :** | | 2520 | | | | |
| Q1665-11 | IA-B10-1-3242025 | Air | unknown3.230 | * | 1.30 | J | 0 | 0 | ppbv |
| Q1665-11 | IA-B10-1-3242025 | Air | Butane | * | 2.20 | J | 0 | 0 | ppbv |
| Q1665-11 | IA-B10-1-3242025 | Air | Decane | * | 1.80 | J | 0 | 0 | ppbv |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q1665

**Client:** Woodard & Curran

| Sample ID | Client ID | Matrix | Parameter | | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| Q1665-11 | IA-B10-1-3242025 | Air | 1-Hexene, 4-methyl- | * | 1.30 | J | 0 | 0 | ppbv |
| Q1665-11 | IA-B10-1-3242025 | Air | D-Limonene | * | 8.40 | J | 0 | 0 | ppbv |
| Q1665-11 | IA-B10-1-3242025 | Air | Propene | * | 3.80 | J | 0.15 | 0.50 | ppbv |
| Q1665-11 | IA-B10-1-3242025 | Air | p-Isopropyltoluene | * | 0.12 | J | 0.090 | 0.50 | ppbv |
| | | | **Total Tics :** | | 18.9 | | | | |
| | | | **Total Concentration:** | | 2540 | | | | |
| **Client ID:** | **IA-B10-1-3242025DL** | | | | | | | | |
| Q1665-11DL | IA-B10-1-3242025I | Air | Ethanol | | 2450 | EDQ | 6.03 | 9.42 | ug/m3 |
| Q1665-11DL | IA-B10-1-3242025I | Air | Isopropyl Alcohol | | 119 | D | 1.70 | 12.3 | ug/m3 |
| Q1665-11DL | IA-B10-1-3242025I | Air | Acetone | | 309 | D | 5.70 | 11.9 | ug/m3 |
| Q1665-11DL | IA-B10-1-3242025I | Air | Methylene Chloride | | 57.0 | D | 6.60 | 17.4 | ug/m3 |
| Q1665-11DL | IA-B10-1-3242025I | Air | 2-Butanone | | 29.5 | D | 3.54 | 14.8 | ug/m3 |
| Q1665-11DL | IA-B10-1-3242025I | Air | Chloroform | | 4.88 | JD | 4.05 | 24.4 | ug/m3 |
| Q1665-11DL | IA-B10-1-3242025I | Air | Hexane | | 15.5 | JD | 3.88 | 17.6 | ug/m3 |
| | | | **Total Voc :** | | 2980 | | | | |
| | | | **Total Concentration:** | | 2980 | | | | |
| **Client ID:** | **IA-B2-6-3242025** | | | | | | | | |
| Q1665-12 | IA-B2-6-3242025 | Air | Dichlorodifluoromethane | | 2.27 | J | 1.04 | 2.47 | ug/m3 |
| Q1665-12 | IA-B2-6-3242025 | Air | Ethanol | | 137 | EQ | 0.60 | 0.94 | ug/m3 |
| Q1665-12 | IA-B2-6-3242025 | Air | Chloromethane | | 1.14 | | 0.21 | 1.03 | ug/m3 |
| Q1665-12 | IA-B2-6-3242025 | Air | Trichlorofluoromethane | | 1.29 | J | 0.90 | 2.81 | ug/m3 |
| Q1665-12 | IA-B2-6-3242025 | Air | tert-Butyl alcohol | | 5.76 | | 0.58 | 1.52 | ug/m3 |
| Q1665-12 | IA-B2-6-3242025 | Air | Heptane | | 1.43 | J | 0.45 | 2.05 | ug/m3 |
| Q1665-12 | IA-B2-6-3242025 | Air | Isopropyl Alcohol | | 152 | E | 0.17 | 1.23 | ug/m3 |
| Q1665-12 | IA-B2-6-3242025 | Air | Methylene Chloride | | 15.3 | | 0.66 | 1.74 | ug/m3 |
| Q1665-12 | IA-B2-6-3242025 | Air | 2-Butanone | | 2.33 | | 0.35 | 1.47 | ug/m3 |
| Q1665-12 | IA-B2-6-3242025 | Air | Carbon Tetrachloride | | 0.44 | | 0.060 | 0.19 | ug/m3 |
| Q1665-12 | IA-B2-6-3242025 | Air | 2,2,4-Trimethylpentane | | 0.98 | J | 0.47 | 2.34 | ug/m3 |
| Q1665-12 | IA-B2-6-3242025 | Air | Benzene | | 1.18 | J | 0.29 | 1.60 | ug/m3 |
| Q1665-12 | IA-B2-6-3242025 | Air | 4-Methyl-2-Pentanone | | 4.10 | | 0.37 | 2.05 | ug/m3 |
| Q1665-12 | IA-B2-6-3242025 | Air | Toluene | | 5.28 | | 0.41 | 1.88 | ug/m3 |
| Q1665-12 | IA-B2-6-3242025 | Air | Ethyl Benzene | | 2.17 | | 0.52 | 2.17 | ug/m3 |
| Q1665-12 | IA-B2-6-3242025 | Air | m/p-Xylene | | 3.56 | J | 0.91 | 4.34 | ug/m3 |
| Q1665-12 | IA-B2-6-3242025 | Air | o-Xylene | | 1.48 | J | 0.52 | 2.17 | ug/m3 |
| Q1665-12 | IA-B2-6-3242025 | Air | Styrene | | 1.92 | J | 0.47 | 2.13 | ug/m3 |
| Q1665-12 | IA-B2-6-3242025 | Air | 1,3,5-Trimethylbenzene | | 0.98 | J | 0.54 | 2.46 | ug/m3 |
| Q1665-12 | IA-B2-6-3242025 | Air | 1,2,4-Trimethylbenzene | | 3.24 | | 0.39 | 2.46 | ug/m3 |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q1665

**Client:** Woodard & Curran

| Sample ID | Client ID | Matrix | Parameter | | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| Q1665-12 | IA-B2-6-3242025 | Air | 4-Ethyltoluene | | 0.79 | J | 0.59 | 2.46 | ug/m3 |
| Q1665-12 | IA-B2-6-3242025 | Air | Hexane | | 17.3 | | 0.39 | 1.76 | ug/m3 |
| | | | **Total Voc :** | | 361 | | | | |
| Q1665-12 | IA-B2-6-3242025 | Air | Hexanal | * | 1.60 | J | 0 | 0 | ppbv |
| Q1665-12 | IA-B2-6-3242025 | Air | Acetic acid, 2-ethylhexyl ester | * | 4.80 | J | 0 | 0 | ppbv |
| Q1665-12 | IA-B2-6-3242025 | Air | Butane | * | 2.40 | J | 0 | 0 | ppbv |
| Q1665-12 | IA-B2-6-3242025 | Air | Tridecane | * | 1.40 | J | 0 | 0 | ppbv |
| Q1665-12 | IA-B2-6-3242025 | Air | Undecane | * | 1.30 | J | 0 | 0 | ppbv |
| Q1665-12 | IA-B2-6-3242025 | Air | D-Limonene | * | 2.00 | J | 0 | 0 | ppbv |
| Q1665-12 | IA-B2-6-3242025 | Air | 11H-Dibenzo[b,e][1,4]diazepin | * | 2.30 | J | 0 | 0 | ppbv |
| Q1665-12 | IA-B2-6-3242025 | Air | Octane, 2,3,3-trimethyl- | * | 1.50 | J | 0 | 0 | ppbv |
| Q1665-12 | IA-B2-6-3242025 | Air | Chlorodifluoromethane | * | 0.24 | J | 0.090 | 0.50 | ppbv |
| Q1665-12 | IA-B2-6-3242025 | Air | Propene | * | 1.10 | J | 0.15 | 0.50 | ppbv |
| Q1665-12 | IA-B2-6-3242025 | Air | Isopropylbenzene | * | 0.12 | J | 0.090 | 0.50 | ppbv |
| Q1665-12 | IA-B2-6-3242025 | Air | n-propylbenzene | * | 0.16 | J | 0.080 | 0.50 | ppbv |
| | | | **Total Tics :** | | 18.9 | | | | |
| | | | **Total Concentration:** | | 380 | | | | |
| **Client ID:** | **IA-B14-1-3242025** | | | | | | | | |
| Q1665-15 | IA-B14-1-3242025 | Air | Dichlorodifluoromethane | | 2.13 | J | 1.04 | 2.47 | ug/m3 |
| Q1665-15 | IA-B14-1-3242025 | Air | Ethanol | | 32.6 | EQ | 0.60 | 0.94 | ug/m3 |
| Q1665-15 | IA-B14-1-3242025 | Air | Chloromethane | | 1.36 | | 0.21 | 1.03 | ug/m3 |
| Q1665-15 | IA-B14-1-3242025 | Air | Trichlorofluoromethane | | 1.18 | J | 0.90 | 2.81 | ug/m3 |
| Q1665-15 | IA-B14-1-3242025 | Air | Heptane | | 0.61 | J | 0.45 | 2.05 | ug/m3 |
| Q1665-15 | IA-B14-1-3242025 | Air | Isopropyl Alcohol | | 320 | E | 0.17 | 1.23 | ug/m3 |
| Q1665-15 | IA-B14-1-3242025 | Air | Acetone | | 91.2 | E | 0.57 | 1.19 | ug/m3 |
| Q1665-15 | IA-B14-1-3242025 | Air | Methylene Chloride | | 4.17 | | 0.66 | 1.74 | ug/m3 |
| Q1665-15 | IA-B14-1-3242025 | Air | 2-Butanone | | 2.18 | | 0.35 | 1.47 | ug/m3 |
| Q1665-15 | IA-B14-1-3242025 | Air | Carbon Tetrachloride | | 0.50 | | 0.060 | 0.19 | ug/m3 |
| Q1665-15 | IA-B14-1-3242025 | Air | Chloroform | | 1.03 | J | 0.39 | 2.44 | ug/m3 |
| Q1665-15 | IA-B14-1-3242025 | Air | 1,1,1-Trichloroethane | | 0.22 | | 0.050 | 0.16 | ug/m3 |
| Q1665-15 | IA-B14-1-3242025 | Air | 2,2,4-Trimethylpentane | | 0.84 | J | 0.47 | 2.34 | ug/m3 |
| Q1665-15 | IA-B14-1-3242025 | Air | Benzene | | 0.77 | J | 0.29 | 1.60 | ug/m3 |
| Q1665-15 | IA-B14-1-3242025 | Air | 4-Methyl-2-Pentanone | | 0.57 | J | 0.37 | 2.05 | ug/m3 |
| Q1665-15 | IA-B14-1-3242025 | Air | Toluene | | 3.32 | | 0.41 | 1.88 | ug/m3 |
| Q1665-15 | IA-B14-1-3242025 | Air | Ethyl Benzene | | 21.7 | | 0.52 | 2.17 | ug/m3 |
| Q1665-15 | IA-B14-1-3242025 | Air | m/p-Xylene | | 92.5 | | 0.91 | 4.34 | ug/m3 |
| Q1665-15 | IA-B14-1-3242025 | Air | o-Xylene | | 17.8 | | 0.52 | 2.17 | ug/m3 |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q1665

**Client:** Woodard & Curran

| Sample ID | Client ID | Matrix | Parameter | | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| Q1665-15 | IA-B14-1-3242025 | Air | 1,3,5-Trimethylbenzene | | 0.54 | J | 0.54 | 2.46 | ug/m3 |
| Q1665-15 | IA-B14-1-3242025 | Air | 1,2,4-Trimethylbenzene | | 1.33 | J | 0.39 | 2.46 | ug/m3 |
| Q1665-15 | IA-B14-1-3242025 | Air | Naphthalene | | 0.73 | | 0.42 | 0.52 | ug/m3 |
| Q1665-15 | IA-B14-1-3242025 | Air | Hexane | | 9.52 | | 0.39 | 1.76 | ug/m3 |
| Q1665-15 | IA-B14-1-3242025 | Air | 1,4-Dioxane | | 3.60 | | 0.76 | 1.80 | ug/m3 |
| | | | **Total Voc :** | | 610 | | | | |
| Q1665-15 | IA-B14-1-3242025 | Air | Hexanoic acid, methyl ester | * | 4.30 | J | 0 | 0 | ppbv |
| Q1665-15 | IA-B14-1-3242025 | Air | Heptanoic acid, methyl ester | * | 10.6 | J | 0 | 0 | ppbv |
| Q1665-15 | IA-B14-1-3242025 | Air | Butane | * | 1.20 | J | 0 | 0 | ppbv |
| Q1665-15 | IA-B14-1-3242025 | Air | 1-Pentene, 2,4,4-trimethyl- | * | 1.60 | J | 0 | 0 | ppbv |
| Q1665-15 | IA-B14-1-3242025 | Air | Octanoic acid, methyl ester | * | 6.40 | J | 0 | 0 | ppbv |
| Q1665-15 | IA-B14-1-3242025 | Air | Chlorodifluoromethane | * | 0.31 | J | 0.090 | 0.50 | ppbv |
| Q1665-15 | IA-B14-1-3242025 | Air | Naphthalene,2-methyl- | * | 0.15 | J | 0.15 | 0.50 | ppbv |
| Q1665-15 | IA-B14-1-3242025 | Air | Propene | * | 1.60 | J | 0.15 | 0.50 | ppbv |
| Q1665-15 | IA-B14-1-3242025 | Air | 2-Hexanone | * | 1.50 | J | 0.080 | 0.50 | ppbv |
| | | | **Total Tics :** | | 27.7 | | | | |
| | | | **Total Concentration:** | | 638 | | | | |
| **Client ID:** | **IA-B14-1-3242025DL** | | | | | | | | |
| Q1665-15DL | IA-B14-1-3242025I | Air | Ethanol | | 52.4 | DQ | 6.03 | 9.42 | ug/m3 |
| Q1665-15DL | IA-B14-1-3242025I | Air | Isopropyl Alcohol | | 418 | ED | 1.70 | 12.3 | ug/m3 |
| Q1665-15DL | IA-B14-1-3242025I | Air | Acetone | | 101 | D | 5.70 | 11.9 | ug/m3 |
| Q1665-15DL | IA-B14-1-3242025I | Air | 2-Butanone | | 3.83 | JD | 3.54 | 14.8 | ug/m3 |
| Q1665-15DL | IA-B14-1-3242025I | Air | Ethyl Benzene | | 22.1 | D | 5.21 | 21.7 | ug/m3 |
| Q1665-15DL | IA-B14-1-3242025I | Air | m/p-Xylene | | 96.9 | D | 9.12 | 43.4 | ug/m3 |
| Q1665-15DL | IA-B14-1-3242025I | Air | o-Xylene | | 17.8 | JD | 5.21 | 21.7 | ug/m3 |
| | | | **Total Voc :** | | 712 | | | | |
| | | | **Total Concentration:** | | 712 | | | | |
| **Client ID:** | **IA-B2-5-3242025** | | | | | | | | |
| Q1665-16 | IA-B2-5-3242025 | Air | Dichlorodifluoromethane | | 2.08 | J | 1.04 | 2.47 | ug/m3 |
| Q1665-16 | IA-B2-5-3242025 | Air | Ethanol | | 904 | EQ | 0.60 | 0.94 | ug/m3 |
| Q1665-16 | IA-B2-5-3242025 | Air | Chloromethane | | 2.07 | | 0.21 | 1.03 | ug/m3 |
| Q1665-16 | IA-B2-5-3242025 | Air | Tetrahydrofuran | | 0.47 | J | 0.38 | 1.47 | ug/m3 |
| Q1665-16 | IA-B2-5-3242025 | Air | Trichlorofluoromethane | | 1.24 | J | 0.90 | 2.81 | ug/m3 |
| Q1665-16 | IA-B2-5-3242025 | Air | tert-Butyl alcohol | | 0.73 | J | 0.58 | 1.52 | ug/m3 |
| Q1665-16 | IA-B2-5-3242025 | Air | Heptane | | 2.70 | | 0.45 | 2.05 | ug/m3 |
| Q1665-16 | IA-B2-5-3242025 | Air | Isopropyl Alcohol | | 72.0 | E | 0.17 | 1.23 | ug/m3 |
| Q1665-16 | IA-B2-5-3242025 | Air | Acetone | | 27.8 | | 0.57 | 1.19 | ug/m3 |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q1665

**Client:** Woodard & Curran

| Sample ID | Client ID | Matrix | Parameter | | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| Q1665-16 | IA-B2-5-3242025 | Air | Methylene Chloride | | 2.26 | | 0.66 | 1.74 | ug/m3 |
| Q1665-16 | IA-B2-5-3242025 | Air | Cyclohexane | | 1.72 | | 0.76 | 1.72 | ug/m3 |
| Q1665-16 | IA-B2-5-3242025 | Air | 2-Butanone | | 2.36 | | 0.35 | 1.47 | ug/m3 |
| Q1665-16 | IA-B2-5-3242025 | Air | Carbon Tetrachloride | | 0.57 | | 0.060 | 0.19 | ug/m3 |
| Q1665-16 | IA-B2-5-3242025 | Air | Chloroform | | 0.88 | J | 0.39 | 2.44 | ug/m3 |
| Q1665-16 | IA-B2-5-3242025 | Air | 2,2,4-Trimethylpentane | | 4.67 | | 0.47 | 2.34 | ug/m3 |
| Q1665-16 | IA-B2-5-3242025 | Air | Benzene | | 2.17 | | 0.29 | 1.60 | ug/m3 |
| Q1665-16 | IA-B2-5-3242025 | Air | Toluene | | 25.3 | | 0.41 | 1.88 | ug/m3 |
| Q1665-16 | IA-B2-5-3242025 | Air | Ethyl Benzene | | 2.52 | | 0.52 | 2.17 | ug/m3 |
| Q1665-16 | IA-B2-5-3242025 | Air | m/p-Xylene | | 8.69 | | 0.91 | 4.34 | ug/m3 |
| Q1665-16 | IA-B2-5-3242025 | Air | o-Xylene | | 3.00 | | 0.52 | 2.17 | ug/m3 |
| Q1665-16 | IA-B2-5-3242025 | Air | Styrene | | 1.06 | J | 0.47 | 2.13 | ug/m3 |
| Q1665-16 | IA-B2-5-3242025 | Air | 2-Chlorotoluene | | 1.66 | J | 0.57 | 2.59 | ug/m3 |
| Q1665-16 | IA-B2-5-3242025 | Air | 1,3,5-Trimethylbenzene | | 1.33 | J | 0.54 | 2.46 | ug/m3 |
| Q1665-16 | IA-B2-5-3242025 | Air | 1,2,4-Trimethylbenzene | | 3.74 | | 0.39 | 2.46 | ug/m3 |
| Q1665-16 | IA-B2-5-3242025 | Air | 4-Ethyltoluene | | 1.18 | J | 0.59 | 2.46 | ug/m3 |
| Q1665-16 | IA-B2-5-3242025 | Air | Hexane | | 11.3 | | 0.39 | 1.76 | ug/m3 |
| | | | **Total Voc :** | | 1090 | | | | |
| Q1665-16 | IA-B2-5-3242025 | Air | Hexanal | * | 2.10 | J | 0 | 0 | ppbv |
| Q1665-16 | IA-B2-5-3242025 | Air | Cyclopentane, methyl- | * | 2.00 | J | 0 | 0 | ppbv |
| Q1665-16 | IA-B2-5-3242025 | Air | Butane | * | 1.20 | J | 0 | 0 | ppbv |
| Q1665-16 | IA-B2-5-3242025 | Air | Pentane, 2-methyl- | * | 2.30 | J | 0 | 0 | ppbv |
| Q1665-16 | IA-B2-5-3242025 | Air | Pentane | * | 1.10 | J | 0 | 0 | ppbv |
| Q1665-16 | IA-B2-5-3242025 | Air | 1,3-Butanediamine | * | 1.60 | J | 0 | 0 | ppbv |
| Q1665-16 | IA-B2-5-3242025 | Air | Undecane | * | 1.40 | J | 0 | 0 | ppbv |
| Q1665-16 | IA-B2-5-3242025 | Air | 1-Hexene, 4-methyl- | * | 1.60 | J | 0 | 0 | ppbv |
| Q1665-16 | IA-B2-5-3242025 | Air | Chlorodifluoromethane | * | 0.28 | J | 0.090 | 0.50 | ppbv |
| Q1665-16 | IA-B2-5-3242025 | Air | Propene | * | 1.30 | J | 0.15 | 0.50 | ppbv |
| Q1665-16 | IA-B2-5-3242025 | Air | n-propylbenzene | * | 0.14 | J | 0.080 | 0.50 | ppbv |
| Q1665-16 | IA-B2-5-3242025 | Air | p-Isopropyltoluene | * | 0.19 | J | 0.090 | 0.50 | ppbv |
| | | | **Total Tics :** | | 15.2 | | | | |
| | | | **Total Concentration:** | | 1100 | | | | |
| **Client ID:** | **IA-B10-3-3242025** | | | | | | | | |
| Q1665-18 | IA-B10-3-3242025 | Air | Dichlorodifluoromethane | | 2.18 | J | 1.04 | 2.47 | ug/m3 |
| Q1665-18 | IA-B10-3-3242025 | Air | Ethanol | | 2640 | EQ | 0.60 | 0.94 | ug/m3 |
| Q1665-18 | IA-B10-3-3242025 | Air | Chloromethane | | 1.26 | | 0.21 | 1.03 | ug/m3 |
| Q1665-18 | IA-B10-3-3242025 | Air | Trichlorofluoromethane | | 1.07 | J | 0.90 | 2.81 | ug/m3 |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q1665

**Client:** Woodard & Curran

| Sample ID | Client ID | Matrix | Parameter | | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| Q1665-18 | IA-B10-3-3242025 | Air | tert-Butyl alcohol | | 1.36 | J | 0.58 | 1.52 | ug/m3 |
| Q1665-18 | IA-B10-3-3242025 | Air | Heptane | | 0.78 | J | 0.45 | 2.05 | ug/m3 |
| Q1665-18 | IA-B10-3-3242025 | Air | Isopropyl Alcohol | | 212 | E | 0.17 | 1.23 | ug/m3 |
| Q1665-18 | IA-B10-3-3242025 | Air | Acetone | | 215 | E | 0.57 | 1.19 | ug/m3 |
| Q1665-18 | IA-B10-3-3242025 | Air | Methylene Chloride | | 3.13 | | 0.66 | 1.74 | ug/m3 |
| Q1665-18 | IA-B10-3-3242025 | Air | 2-Butanone | | 67.0 | E | 0.35 | 1.47 | ug/m3 |
| Q1665-18 | IA-B10-3-3242025 | Air | Carbon Tetrachloride | | 0.50 | | 0.060 | 0.19 | ug/m3 |
| Q1665-18 | IA-B10-3-3242025 | Air | Chloroform | | 7.33 | | 0.39 | 2.44 | ug/m3 |
| Q1665-18 | IA-B10-3-3242025 | Air | Benzene | | 2.17 | | 0.29 | 1.60 | ug/m3 |
| Q1665-18 | IA-B10-3-3242025 | Air | 4-Methyl-2-Pentanone | | 1.84 | J | 0.37 | 2.05 | ug/m3 |
| Q1665-18 | IA-B10-3-3242025 | Air | Toluene | | 2.03 | | 0.41 | 1.88 | ug/m3 |
| Q1665-18 | IA-B10-3-3242025 | Air | Tetrachloroethene | | 0.27 | | 0.14 | 0.20 | ug/m3 |
| Q1665-18 | IA-B10-3-3242025 | Air | 1,2,4-Trimethylbenzene | | 0.79 | J | 0.39 | 2.46 | ug/m3 |
| Q1665-18 | IA-B10-3-3242025 | Air | Hexane | | 9.52 | | 0.39 | 1.76 | ug/m3 |
| | | | **Total Voc :** | | 3170 | | | | |
| Q1665-18 | IA-B10-3-3242025 | Air | Butane | * | 1.30 | J | 0 | 0 | ppbv |
| Q1665-18 | IA-B10-3-3242025 | Air | D-Limonene | * | 18.0 | J | 0 | 0 | ppbv |
| Q1665-18 | IA-B10-3-3242025 | Air | Butanoic acid, 2-methyl-, ethyl | * | 1.40 | J | 0 | 0 | ppbv |
| Q1665-18 | IA-B10-3-3242025 | Air | Bicyclo[3.1.1]heptane, 6,6-dim | * | 1.10 | J | 0 | 0 | ppbv |
| Q1665-18 | IA-B10-3-3242025 | Air | Chlorodifluoromethane | * | 0.18 | J | 0.090 | 0.50 | ppbv |
| Q1665-18 | IA-B10-3-3242025 | Air | Propene | * | 5.00 | J | 0.15 | 0.50 | ppbv |
| Q1665-18 | IA-B10-3-3242025 | Air | p-Isopropyltoluene | * | 0.11 | J | 0.090 | 0.50 | ppbv |
| | | | **Total Tics :** | | 27.1 | | | | |
| | | | **Total Concentration:** | | 3190 | | | | |
| **Client ID:** | **IA-B10-3-3242025DL** | | | | | | | | |
| Q1665-18DL | IA-B10-3-3242025I | Air | Ethanol | | 3390 | EDQ | 6.03 | 9.42 | ug/m3 |
| Q1665-18DL | IA-B10-3-3242025I | Air | Isopropyl Alcohol | | 194 | D | 1.70 | 12.3 | ug/m3 |
| Q1665-18DL | IA-B10-3-3242025I | Air | Acetone | | 356 | D | 5.70 | 11.9 | ug/m3 |
| Q1665-18DL | IA-B10-3-3242025I | Air | 2-Butanone | | 44.5 | D | 3.54 | 14.8 | ug/m3 |
| Q1665-18DL | IA-B10-3-3242025I | Air | Chloroform | | 6.35 | JD | 4.05 | 24.4 | ug/m3 |
| Q1665-18DL | IA-B10-3-3242025I | Air | Hexane | | 5.99 | JD | 3.88 | 17.6 | ug/m3 |
| | | | **Total Voc :** | | 4000 | | | | |
| | | | **Total Concentration:** | | 4000 | | | | |
| **Client ID:** | **IA-B2-2-3242025** | | | | | | | | |
| Q1665-19 | IA-B2-2-3242025 | Air | Dichlorodifluoromethane | | 2.27 | J | 1.04 | 2.47 | ug/m3 |
| Q1665-19 | IA-B2-2-3242025 | Air | Ethanol | | 603 | EQ | 0.60 | 0.94 | ug/m3 |
| Q1665-19 | IA-B2-2-3242025 | Air | Chloromethane | | 1.36 | | 0.21 | 1.03 | ug/m3 |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q1665

**Client:** Woodard & Curran

| Sample ID | Client ID | Matrix | Parameter | | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| Q1665-19 | IA-B2-2-3242025 | Air | Trichlorofluoromethane | | 1.24 | J | 0.90 | 2.81 | ug/m3 |
| Q1665-19 | IA-B2-2-3242025 | Air | tert-Butyl alcohol | | 8.79 | | 0.58 | 1.52 | ug/m3 |
| Q1665-19 | IA-B2-2-3242025 | Air | Heptane | | 2.01 | J | 0.45 | 2.05 | ug/m3 |
| Q1665-19 | IA-B2-2-3242025 | Air | Isopropyl Alcohol | | 78.7 | E | 0.17 | 1.23 | ug/m3 |
| Q1665-19 | IA-B2-2-3242025 | Air | Acetone | | 40.9 | E | 0.57 | 1.19 | ug/m3 |
| Q1665-19 | IA-B2-2-3242025 | Air | Methylene Chloride | | 3.09 | | 0.66 | 1.74 | ug/m3 |
| Q1665-19 | IA-B2-2-3242025 | Air | 2-Butanone | | 4.72 | | 0.35 | 1.47 | ug/m3 |
| Q1665-19 | IA-B2-2-3242025 | Air | Carbon Tetrachloride | | 0.38 | | 0.060 | 0.19 | ug/m3 |
| Q1665-19 | IA-B2-2-3242025 | Air | 2,2,4-Trimethylpentane | | 3.13 | | 0.47 | 2.34 | ug/m3 |
| Q1665-19 | IA-B2-2-3242025 | Air | Benzene | | 1.44 | J | 0.29 | 1.60 | ug/m3 |
| Q1665-19 | IA-B2-2-3242025 | Air | 1,2-Dichloroethane | | 1.86 | J | 0.36 | 2.02 | ug/m3 |
| Q1665-19 | IA-B2-2-3242025 | Air | 4-Methyl-2-Pentanone | | 1.64 | J | 0.37 | 2.05 | ug/m3 |
| Q1665-19 | IA-B2-2-3242025 | Air | Toluene | | 15.1 | | 0.41 | 1.88 | ug/m3 |
| Q1665-19 | IA-B2-2-3242025 | Air | Tetrachloroethene | | 0.34 | | 0.14 | 0.20 | ug/m3 |
| Q1665-19 | IA-B2-2-3242025 | Air | Ethyl Benzene | | 2.17 | | 0.52 | 2.17 | ug/m3 |
| Q1665-19 | IA-B2-2-3242025 | Air | m/p-Xylene | | 5.21 | | 0.91 | 4.34 | ug/m3 |
| Q1665-19 | IA-B2-2-3242025 | Air | o-Xylene | | 2.17 | | 0.52 | 2.17 | ug/m3 |
| Q1665-19 | IA-B2-2-3242025 | Air | Styrene | | 1.36 | J | 0.47 | 2.13 | ug/m3 |
| Q1665-19 | IA-B2-2-3242025 | Air | 1,3,5-Trimethylbenzene | | 0.69 | J | 0.54 | 2.46 | ug/m3 |
| Q1665-19 | IA-B2-2-3242025 | Air | 1,2,4-Trimethylbenzene | | 1.92 | J | 0.39 | 2.46 | ug/m3 |
| Q1665-19 | IA-B2-2-3242025 | Air | 4-Ethyltoluene | | 0.59 | J | 0.59 | 2.46 | ug/m3 |
| Q1665-19 | IA-B2-2-3242025 | Air | Hexane | | 8.46 | | 0.39 | 1.76 | ug/m3 |
| | | | **Total Voc :** | | 792 | | | | |
| Q1665-19 | IA-B2-2-3242025 | Air | 1-Propanol | * | 2.70 | J | 0 | 0 | ppbv |
| Q1665-19 | IA-B2-2-3242025 | Air | .alpha.-Pinene | * | 2.30 | J | 0 | 0 | ppbv |
| Q1665-19 | IA-B2-2-3242025 | Air | 3-Heptanone | * | 23.7 | J | 0 | 0 | ppbv |
| Q1665-19 | IA-B2-2-3242025 | Air | Butane | * | 24.9 | J | 0 | 0 | ppbv |
| Q1665-19 | IA-B2-2-3242025 | Air | Hexanal, 2-ethyl- | * | 3.70 | J | 0 | 0 | ppbv |
| Q1665-19 | IA-B2-2-3242025 | Air | Butanal | * | 2.00 | J | 0 | 0 | ppbv |
| Q1665-19 | IA-B2-2-3242025 | Air | Carbonic acid, monoamide, tert | * | 2.60 | J | 0 | 0 | ppbv |
| Q1665-19 | IA-B2-2-3242025 | Air | Propene | * | 4.40 | J | 0.15 | 0.50 | ppbv |
| Q1665-19 | IA-B2-2-3242025 | Air | 2-Hexanone | * | 0.25 | J | 0.080 | 0.50 | ppbv |
| Q1665-19 | IA-B2-2-3242025 | Air | n-propylbenzene | * | 0.11 | J | 0.080 | 0.50 | ppbv |
| | | | **Total Tics :** | | 66.7 | | | | |
| | | | **Total Concentration:** | | 859 | | | | |
| **Client ID:** | **IA-B2-2-3242025DL** | | | | | | | | |
| Q1665-19DL | IA-B2-2-3242025D | Air | Ethanol | | 603 | EDQ | 2.45 | 3.77 | ug/m3 |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q1665

**Client:** Woodard & Curran

| Sample ID | Client ID | Matrix | Parameter | | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| Q1665-19DL | IA-B2-2-3242025D | Air | tert-Butyl alcohol | | 8.19 | D | 2.30 | 6.06 | ug/m3 |
| Q1665-19DL | IA-B2-2-3242025D | Air | Isopropyl Alcohol | | 75.7 | D | 0.69 | 4.92 | ug/m3 |
| Q1665-19DL | IA-B2-2-3242025D | Air | Acetone | | 41.1 | D | 2.28 | 4.75 | ug/m3 |
| Q1665-19DL | IA-B2-2-3242025D | Air | Methylene Chloride | | 7.30 | D | 2.64 | 6.95 | ug/m3 |
| Q1665-19DL | IA-B2-2-3242025D | Air | 2-Butanone | | 4.13 | JD | 1.42 | 5.90 | ug/m3 |
| Q1665-19DL | IA-B2-2-3242025D | Air | 2,2,4-Trimethylpentane | | 2.34 | JD | 1.87 | 9.34 | ug/m3 |
| Q1665-19DL | IA-B2-2-3242025D | Air | Toluene | | 10.6 | D | 1.66 | 7.54 | ug/m3 |
| Q1665-19DL | IA-B2-2-3242025D | Air | Hexane | | 5.99 | JD | 1.55 | 7.05 | ug/m3 |
| | | | **Total Voc :** | | 758 | | | | |
| | | | **Total Concentration:** | | 758 | | | | |
| **Client ID:** | **IA-B9-3-3242025** | | | | | | | | |
| Q1665-20 | IA-B9-3-3242025 | Air | Dichlorodifluoromethane | | 2.08 | J | 1.04 | 2.47 | ug/m3 |
| Q1665-20 | IA-B9-3-3242025 | Air | Ethanol | | 59.7 | EQ | 0.60 | 0.94 | ug/m3 |
| Q1665-20 | IA-B9-3-3242025 | Air | Chloromethane | | 1.01 | J | 0.21 | 1.03 | ug/m3 |
| Q1665-20 | IA-B9-3-3242025 | Air | Tetrahydrofuran | | 0.83 | J | 0.38 | 1.47 | ug/m3 |
| Q1665-20 | IA-B9-3-3242025 | Air | Trichlorofluoromethane | | 1.18 | J | 0.90 | 2.81 | ug/m3 |
| Q1665-20 | IA-B9-3-3242025 | Air | Heptane | | 0.66 | J | 0.45 | 2.05 | ug/m3 |
| Q1665-20 | IA-B9-3-3242025 | Air | Isopropyl Alcohol | | 95.9 | E | 0.17 | 1.23 | ug/m3 |
| Q1665-20 | IA-B9-3-3242025 | Air | Acetone | | 19.0 | | 0.57 | 1.19 | ug/m3 |
| Q1665-20 | IA-B9-3-3242025 | Air | Methylene Chloride | | 4.52 | | 0.66 | 1.74 | ug/m3 |
| Q1665-20 | IA-B9-3-3242025 | Air | 2-Butanone | | 7.37 | | 0.35 | 1.47 | ug/m3 |
| Q1665-20 | IA-B9-3-3242025 | Air | Carbon Tetrachloride | | 0.50 | | 0.060 | 0.19 | ug/m3 |
| Q1665-20 | IA-B9-3-3242025 | Air | Benzene | | 0.89 | J | 0.29 | 1.60 | ug/m3 |
| Q1665-20 | IA-B9-3-3242025 | Air | Toluene | | 2.00 | | 0.41 | 1.88 | ug/m3 |
| Q1665-20 | IA-B9-3-3242025 | Air | Chlorobenzene | | 0.60 | J | 0.37 | 2.30 | ug/m3 |
| Q1665-20 | IA-B9-3-3242025 | Air | m/p-Xylene | | 0.96 | J | 0.91 | 4.34 | ug/m3 |
| Q1665-20 | IA-B9-3-3242025 | Air | o-Xylene | | 0.56 | J | 0.52 | 2.17 | ug/m3 |
| Q1665-20 | IA-B9-3-3242025 | Air | Hexane | | 5.29 | | 0.39 | 1.76 | ug/m3 |
| | | | **Total Voc :** | | 203 | | | | |
| Q1665-20 | IA-B9-3-3242025 | Air | Benzaldehyde | * | 1.10 | J | 0 | 0 | ppbv |
| Q1665-20 | IA-B9-3-3242025 | Air | Butane | * | 1.30 | J | 0 | 0 | ppbv |
| Q1665-20 | IA-B9-3-3242025 | Air | Chlorodifluoromethane | * | 0.56 | J | 0.090 | 0.50 | ppbv |
| Q1665-20 | IA-B9-3-3242025 | Air | Propene | * | 3.10 | J | 0.15 | 0.50 | ppbv |
| | | | **Total Tics :** | | 6.06 | | | | |
| | | | **Total Concentration:** | | 209 | | | | |
| **Client ID:** | **IA-B2-1-3242025** | | | | | | | | |
| Q1665-21 | IA-B2-1-3242025 | Air | Dichlorodifluoromethane | | 2.27 | J | 1.04 | 2.47 | ug/m3 |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q1665

**Client:** Woodard & Curran

| Sample ID | Client ID | Matrix | Parameter | | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| Q1665-21 | IA-B2-1-3242025 | Air | Ethanol | | 1300 | EQ | 0.60 | 0.94 | ug/m3 |
| Q1665-21 | IA-B2-1-3242025 | Air | Chloromethane | | 1.42 | | 0.21 | 1.03 | ug/m3 |
| Q1665-21 | IA-B2-1-3242025 | Air | Trichlorofluoromethane | | 1.24 | J | 0.90 | 2.81 | ug/m3 |
| Q1665-21 | IA-B2-1-3242025 | Air | tert-Butyl alcohol | | 0.85 | J | 0.58 | 1.52 | ug/m3 |
| Q1665-21 | IA-B2-1-3242025 | Air | Heptane | | 1.60 | J | 0.45 | 2.05 | ug/m3 |
| Q1665-21 | IA-B2-1-3242025 | Air | Isopropyl Alcohol | | 98.3 | E | 0.17 | 1.23 | ug/m3 |
| Q1665-21 | IA-B2-1-3242025 | Air | Acetone | | 36.1 | E | 0.57 | 1.19 | ug/m3 |
| Q1665-21 | IA-B2-1-3242025 | Air | Methylene Chloride | | 5.56 | | 0.66 | 1.74 | ug/m3 |
| Q1665-21 | IA-B2-1-3242025 | Air | Cyclohexane | | 1.03 | J | 0.76 | 1.72 | ug/m3 |
| Q1665-21 | IA-B2-1-3242025 | Air | 2-Butanone | | 2.09 | | 0.35 | 1.47 | ug/m3 |
| Q1665-21 | IA-B2-1-3242025 | Air | Carbon Tetrachloride | | 0.44 | | 0.060 | 0.19 | ug/m3 |
| Q1665-21 | IA-B2-1-3242025 | Air | 2,2,4-Trimethylpentane | | 2.29 | J | 0.47 | 2.34 | ug/m3 |
| Q1665-21 | IA-B2-1-3242025 | Air | Benzene | | 1.37 | J | 0.29 | 1.60 | ug/m3 |
| Q1665-21 | IA-B2-1-3242025 | Air | Toluene | | 32.0 | | 0.41 | 1.88 | ug/m3 |
| Q1665-21 | IA-B2-1-3242025 | Air | Ethyl Benzene | | 1.65 | J | 0.52 | 2.17 | ug/m3 |
| Q1665-21 | IA-B2-1-3242025 | Air | m/p-Xylene | | 5.21 | | 0.91 | 4.34 | ug/m3 |
| Q1665-21 | IA-B2-1-3242025 | Air | o-Xylene | | 2.26 | | 0.52 | 2.17 | ug/m3 |
| Q1665-21 | IA-B2-1-3242025 | Air | Styrene | | 1.02 | J | 0.47 | 2.13 | ug/m3 |
| Q1665-21 | IA-B2-1-3242025 | Air | 2-Chlorotoluene | | 0.57 | J | 0.57 | 2.59 | ug/m3 |
| Q1665-21 | IA-B2-1-3242025 | Air | 1,3,5-Trimethylbenzene | | 0.64 | J | 0.54 | 2.46 | ug/m3 |
| Q1665-21 | IA-B2-1-3242025 | Air | 1,2,4-Trimethylbenzene | | 1.33 | J | 0.39 | 2.46 | ug/m3 |
| Q1665-21 | IA-B2-1-3242025 | Air | 4-Ethyltoluene | | 0.59 | J | 0.59 | 2.46 | ug/m3 |
| Q1665-21 | IA-B2-1-3242025 | Air | Hexane | | 10.6 | | 0.39 | 1.76 | ug/m3 |
| | | | **Total Voc :** | | 1510 | | | | |
| Q1665-21 | IA-B2-1-3242025 | Air | Hexanal | * | 1.90 | J | 0 | 0 | ppbv |
| Q1665-21 | IA-B2-1-3242025 | Air | Butane | * | 1.30 | J | 0 | 0 | ppbv |
| Q1665-21 | IA-B2-1-3242025 | Air | Pentane | * | 1.00 | J | 0 | 0 | ppbv |
| Q1665-21 | IA-B2-1-3242025 | Air | Butanal, 3-methyl- | * | 1.20 | J | 0 | 0 | ppbv |
| Q1665-21 | IA-B2-1-3242025 | Air | 1-Pentene, 2-methyl- | * | 1.10 | J | 0 | 0 | ppbv |
| Q1665-21 | IA-B2-1-3242025 | Air | N-Vinylformamide | * | 1.20 | J | 0 | 0 | ppbv |
| Q1665-21 | IA-B2-1-3242025 | Air | Isoxazolidine, 4-ethyl-2,5-dime | * | 1.10 | J | 0 | 0 | ppbv |
| Q1665-21 | IA-B2-1-3242025 | Air | Chlorodifluoromethane | * | 0.31 | J | 0.090 | 0.50 | ppbv |
| Q1665-21 | IA-B2-1-3242025 | Air | Propene | * | 1.20 | J | 0.15 | 0.50 | ppbv |
| | | | **Total Tics :** | | 10.3 | | | | |
| | | | **Total Concentration:** | | 1520 | | | | |
| **Client ID:** | **IA-B2-1-3242025DL** | | | | | | | | |
| Q1665-21DL | IA-B2-1-3242025D | Air | Ethanol | | 1450 | EDQ | 2.45 | 3.77 | ug/m3 |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q1665

**Client:** Woodard & Curran

| Sample ID | Client ID | Matrix | Parameter | | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| Q1665-21DL | IA-B2-1-3242025D | Air | Chloromethane | | 1.32 | JD | 0.81 | 4.13 | ug/m3 |
| Q1665-21DL | IA-B2-1-3242025D | Air | Isopropyl Alcohol | | 90.5 | D | 0.69 | 4.92 | ug/m3 |
| Q1665-21DL | IA-B2-1-3242025D | Air | Acetone | | 37.3 | D | 2.28 | 4.75 | ug/m3 |
| Q1665-21DL | IA-B2-1-3242025D | Air | Methylene Chloride | | 11.1 | D | 2.64 | 6.95 | ug/m3 |
| Q1665-21DL | IA-B2-1-3242025D | Air | 2-Butanone | | 2.06 | JD | 1.42 | 5.90 | ug/m3 |
| Q1665-21DL | IA-B2-1-3242025D | Air | Toluene | | 21.5 | D | 1.66 | 7.54 | ug/m3 |
| Q1665-21DL | IA-B2-1-3242025D | Air | Hexane | | 8.11 | D | 1.55 | 7.05 | ug/m3 |
| | | | **Total Voc :** | | 1620 | | | | |
| | | | **Total Concentration:** | | 1620 | | | | |
| **Client ID:** | **IA-B2-4-3242025** | | | | | | | | |
| Q1665-22 | IA-B2-4-3242025 | Air | Dichlorodifluoromethane | | 2.47 | | 1.04 | 2.47 | ug/m3 |
| Q1665-22 | IA-B2-4-3242025 | Air | Ethanol | | 471 | EQ | 0.60 | 0.94 | ug/m3 |
| Q1665-22 | IA-B2-4-3242025 | Air | Chloromethane | | 1.24 | | 0.21 | 1.03 | ug/m3 |
| Q1665-22 | IA-B2-4-3242025 | Air | Trichlorofluoromethane | | 1.29 | J | 0.90 | 2.81 | ug/m3 |
| Q1665-22 | IA-B2-4-3242025 | Air | tert-Butyl alcohol | | 0.91 | J | 0.58 | 1.52 | ug/m3 |
| Q1665-22 | IA-B2-4-3242025 | Air | Heptane | | 2.70 | | 0.45 | 2.05 | ug/m3 |
| Q1665-22 | IA-B2-4-3242025 | Air | Isopropyl Alcohol | | 69.6 | E | 0.17 | 1.23 | ug/m3 |
| Q1665-22 | IA-B2-4-3242025 | Air | Acetone | | 32.8 | | 0.57 | 1.19 | ug/m3 |
| Q1665-22 | IA-B2-4-3242025 | Air | Methylene Chloride | | 2.08 | | 0.66 | 1.74 | ug/m3 |
| Q1665-22 | IA-B2-4-3242025 | Air | Cyclohexane | | 0.89 | J | 0.76 | 1.72 | ug/m3 |
| Q1665-22 | IA-B2-4-3242025 | Air | 2-Butanone | | 1.53 | | 0.35 | 1.47 | ug/m3 |
| Q1665-22 | IA-B2-4-3242025 | Air | Carbon Tetrachloride | | 0.44 | | 0.060 | 0.19 | ug/m3 |
| Q1665-22 | IA-B2-4-3242025 | Air | 2,2,4-Trimethylpentane | | 5.60 | | 0.47 | 2.34 | ug/m3 |
| Q1665-22 | IA-B2-4-3242025 | Air | Benzene | | 1.79 | | 0.29 | 1.60 | ug/m3 |
| Q1665-22 | IA-B2-4-3242025 | Air | Toluene | | 17.7 | | 0.41 | 1.88 | ug/m3 |
| Q1665-22 | IA-B2-4-3242025 | Air | Ethyl Benzene | | 2.22 | | 0.52 | 2.17 | ug/m3 |
| Q1665-22 | IA-B2-4-3242025 | Air | m/p-Xylene | | 7.82 | | 0.91 | 4.34 | ug/m3 |
| Q1665-22 | IA-B2-4-3242025 | Air | o-Xylene | | 3.00 | | 0.52 | 2.17 | ug/m3 |
| Q1665-22 | IA-B2-4-3242025 | Air | Styrene | | 0.60 | J | 0.47 | 2.13 | ug/m3 |
| Q1665-22 | IA-B2-4-3242025 | Air | 1,3,5-Trimethylbenzene | | 0.93 | J | 0.54 | 2.46 | ug/m3 |
| Q1665-22 | IA-B2-4-3242025 | Air | 1,2,4-Trimethylbenzene | | 2.51 | | 0.39 | 2.46 | ug/m3 |
| Q1665-22 | IA-B2-4-3242025 | Air | 4-Ethyltoluene | | 0.88 | J | 0.59 | 2.46 | ug/m3 |
| Q1665-22 | IA-B2-4-3242025 | Air | Hexane | | 9.52 | | 0.39 | 1.76 | ug/m3 |
| | | | **Total Voc :** | | 640 | | | | |
| Q1665-22 | IA-B2-4-3242025 | Air | unknown4.263 | * | 1.20 | J | 0 | 0 | ppbv |
| Q1665-22 | IA-B2-4-3242025 | Air | Hexanal | * | 1.10 | J | 0 | 0 | ppbv |
| Q1665-22 | IA-B2-4-3242025 | Air | .alpha.-Pinene | * | 1.40 | J | 0 | 0 | ppbv |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q1665

**Client:** Woodard & Curran

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| Q1665-22 | IA-B2-4-3242025 | Air | Pentane, 3-methyl- | * 1.20 | J | 0 | 0 | ppbv |
| Q1665-22 | IA-B2-4-3242025 | Air | Cyclopentane, methyl- | * 1.10 | J | 0 | 0 | ppbv |
| Q1665-22 | IA-B2-4-3242025 | Air | Butane | * 2.00 | J | 0 | 0 | ppbv |
| Q1665-22 | IA-B2-4-3242025 | Air | Pentane, 2-methyl- | * 1.70 | J | 0 | 0 | ppbv |
| Q1665-22 | IA-B2-4-3242025 | Air | Pentane | * 1.50 | J | 0 | 0 | ppbv |
| Q1665-22 | IA-B2-4-3242025 | Air | Chlorodifluoromethane | * 0.28 | J | 0.090 | 0.50 | ppbv |
| Q1665-22 | IA-B2-4-3242025 | Air | Propene | * 1.20 | J | 0.15 | 0.50 | ppbv |
| Q1665-22 | IA-B2-4-3242025 | Air | n-propylbenzene | * 0.12 | J | 0.080 | 0.50 | ppbv |
| | | | **Total Tics :** | 12.8 | | | | |
| | | | **Total Concentration:** | 652 | | | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site

**Sampling Date :** 03/25/25

**Field Id Number :** AA-DUP-1-3242025

**Analysis Date :** 04/09/25

**Laboratory Id Number :** Q1665-01

**Target Analyts :** Air Results

| Chemical | Cas Number | Molecular Weight | Insert Results in PPBV | Qualifier | Generate Results in ug/m3 | QAS Decision | Foot Notes |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 120.9 | 0.4 | J | 1.98 | | |
| Ethanol | 64-17-5 | 46.07 | 13.4 | | 25.2 | | |
| Chloromethane | 74-87-3 | 50.49 | 0.56 | | 1.16 | | |
| Vinyl Chloride | 75-01-4 | 62.5 | 0.01 | U | 0.03 | | |
| Bromomethane | 74-83-9 | 94.94 | 0.14 | U | 0.54 | | |
| Chloroethane | 75-00-3 | 64.52 | 0.17 | U | 0.45 | | |
| Tetrahydrofuran | 109-99-9 | 72.11 | 0.13 | U | 0.38 | | |
| Trichlorofluoromethane | 75-69-4 | 137.4 | 0.21 | J | 1.18 | | |
| Dichlorotetrafluoroethane | 76-14-2 | 170.9 | 0.09 | U | 0.63 | | |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1 | 187.4 | 0.16 | U | 1.23 | | |
| Bromoethene | 593-60-2 | 106.9 | 0.12 | U | 0.52 | | |
| tert-Butyl alcohol | 75-65-0 | 74.12 | 0.19 | U | 0.58 | | |
| Heptane | 142-82-5 | 100.2 | 0.11 | J | 0.45 | | |
| Isopropyl Alcohol | 67-63-0 | 60.1 | 1.8 | | 4.42 | | |
| 1,1-Dichloroethene | 75-35-4 | 96.94 | 0.14 | U | 0.56 | | |
| Acetone | 67-64-1 | 58.08 | 3.6 | | 8.55 | | |
| Carbon Disulfide | 75-15-0 | 76.14 | 0.16 | U | 0.5 | | |
| Methyl tert-Butyl Ether | 1634-04-4 | 88.15 | 0.12 | U | 0.43 | | |
| Methylene Chloride | 75-09-2 | 84.94 | 0.95 | | 3.3 | | |
| trans-1,2-Dichloroethene | 156-60-5 | 96.94 | 0.19 | U | 0.75 | | |
| 1,1-Dichloroethane | 75-34-3 | 98.96 | 0.13 | U | 0.53 | | |
| Cyclohexane | 110-82-7 | 84.16 | 0.22 | U | 0.76 | | |
| 2-Butanone | 78-93-3 | 72.11 | 0.36 | J | 1.06 | | |
| Carbon Tetrachloride | 56-23-5 | 153.8 | 0.07 | | 0.44 | | |
| cis-1,2-Dichloroethene | 156-59-2 | 96.94 | 0.09 | U | 0.36 | | |
| Chloroform | 67-66-3 | 119.4 | 0.08 | U | 0.39 | | |
| 1,1,1-Trichloroethane | 71-55-6 | 133.4 | 0.01 | U | 0.05 | | |
| 2,2,4-Trimethylpentane | 540-84-1 | 114.2 | 0.1 | U | 0.47 | | |
| Benzene | 71-43-2 | 78.11 | 0.25 | J | 0.8 | | |
| 1,2-Dichloroethane | 107-06-2 | 98.96 | 0.09 | U | 0.36 | | |
| Trichloroethene | 79-01-6 | 131.4 | 0.02 | U | 0.11 | | |
| 1,2-Dichloropropane | 78-87-5 | 113 | 0.11 | U | 0.51 | | |
| Bromodichloromethane | 75-27-4 | 163.8 | 0.08 | U | 0.54 | | |
| 4-Methyl-2-Pentanone | 108-10-1 | 100.2 | 0.09 | U | 0.37 | | |
| Toluene | 108-88-3 | 92.14 | 0.32 | J | 1.21 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site **Sampling Date :** 03/25/25

**Field Id Number :** AA-DUP-1-3242025 **Analysis Date :** 04/09/25

**Laboratory Id Number :** Q1665-01 **Target Analyts :** Air Results

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| t-1,3-Dichloropropene | 10061-02-6 | 111 | 0.06 | U | 0.27 | | |
| cis-1,3-Dichloropropene | 10061-01-5 | 111 | 0.06 | U | 0.27 | | |
| 1,1,2-Trichloroethane | 79-00-5 | 133.4 | 0.07 | U | 0.38 | | |
| Dibromochloromethane | 124-48-1 | 208.3 | 0.07 | U | 0.6 | | |
| 1,2-Dibromoethane | 106-93-4 | 187.9 | 0.07 | U | 0.54 | | |
| Tetrachloroethene | 127-18-4 | 165.8 | 0.02 | U | 0.14 | | |
| Chlorobenzene | 108-90-7 | 112.6 | 0.08 | U | 0.37 | | |
| Ethyl Benzene | 100-41-4 | 106.2 | 0.12 | U | 0.52 | | |
| m/p-Xylene | 179601-23-1 | 106.2 | 0.21 | U | 0.91 | | |
| o-Xylene | 95-47-6 | 106.2 | 0.12 | U | 0.52 | | |
| Styrene | 100-42-5 | 104.1 | 0.11 | U | 0.47 | | |
| Bromoform | 75-25-2 | 252.8 | 0.06 | U | 0.62 | | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 167.9 | 0.01 | U | 0.07 | | |
| 2-Chlorotoluene | 95-49-8 | 126.6 | 0.11 | U | 0.57 | | |
| 1,3,5-Trimethylbenzene | 108-67-8 | 120.2 | 0.11 | U | 0.54 | | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 120.2 | 0.08 | U | 0.39 | | |
| 1,3-Dichlorobenzene | 541-73-1 | 147 | 0.08 | U | 0.48 | | |
| 1,4-Dichlorobenzene | 106-46-7 | 147 | 0.05 | U | 0.3 | | |
| 1,2-Dichlorobenzene | 95-50-1 | 147 | 0.08 | U | 0.48 | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 181.5 | 0.09 | U | 0.67 | | |
| Hexachloro-1,3-Butadiene | 87-68-3 | 260.8 | 0.09 | U | 0.96 | | |
| Naphthalene | 91-20-3 | 128.17 | 0.08 | U | 0.42 | | |
| 1,3-Butadiene | 106-99-0 | 54.09 | 0.13 | U | 0.29 | | |
| 4-Ethyltoluene | 622-96-8 | 120.2 | 0.12 | U | 0.59 | | |
| Hexane | 110-54-3 | 86.17 | 1.6 | | 5.64 | | |
| Allyl Chloride | 107-05-1 | 76.53 | 0.15 | U | 0.47 | | |
| 1,4-Dioxane | 123-91-1 | 88.12 | 0.21 | U | 0.76 | | |
| Methyl Methacrylate | 80-62-6 | 100.117 | 0.09 | U | 0.37 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site

**Sampling Date :** 03/25/25

**Field Id Number :** IA-B10-2-3242025

**Analysis Date :** 04/11/25

**Laboratory Id Number :** Q1665-03

**Target Analyts :** Air Results

| Chemical | Cas Number | Molecular Weight | Insert Results in PPBV | Qualifier | Generate Results in ug/m3 | QAS Decision | Foot Notes |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 120.9 | 0.4 | J | 1.98 | | |
| Ethanol | 64-17-5 | 46.07 | 1300 | E | 2449 | | |
| Chloromethane | 74-87-3 | 50.49 | 0.59 | | 1.22 | | |
| Vinyl Chloride | 75-01-4 | 62.5 | 0.01 | U | 0.03 | | |
| Bromomethane | 74-83-9 | 94.94 | 0.14 | U | 0.54 | | |
| Chloroethane | 75-00-3 | 64.52 | 0.17 | U | 0.45 | | |
| Tetrahydrofuran | 109-99-9 | 72.11 | 0.13 | U | 0.38 | | |
| Trichlorofluoromethane | 75-69-4 | 137.4 | 0.21 | J | 1.18 | | |
| Dichlorotetrafluoroethane | 76-14-2 | 170.9 | 0.09 | U | 0.63 | | |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1 | 187.4 | 0.16 | U | 1.23 | | |
| Bromoethene | 593-60-2 | 106.9 | 0.12 | U | 0.52 | | |
| tert-Butyl alcohol | 75-65-0 | 74.12 | 0.47 | J | 1.42 | | |
| Heptane | 142-82-5 | 100.2 | 0.17 | J | 0.7 | | |
| Isopropyl Alcohol | 67-63-0 | 60.1 | 81.1 | E | 199 | | |
| 1,1-Dichloroethene | 75-35-4 | 96.94 | 0.14 | U | 0.56 | | |
| Acetone | 67-64-1 | 58.08 | 82.7 | E | 196 | | |
| Carbon Disulfide | 75-15-0 | 76.14 | 0.16 | U | 0.5 | | |
| Methyl tert-Butyl Ether | 1634-04-4 | 88.15 | 0.12 | U | 0.43 | | |
| Methylene Chloride | 75-09-2 | 84.94 | 1.6 | | 5.56 | | |
| trans-1,2-Dichloroethene | 156-60-5 | 96.94 | 0.19 | U | 0.75 | | |
| 1,1-Dichloroethane | 75-34-3 | 98.96 | 0.13 | U | 0.53 | | |
| Cyclohexane | 110-82-7 | 84.16 | 0.22 | U | 0.76 | | |
| 2-Butanone | 78-93-3 | 72.11 | 26.8 | E | 79.0 | | |
| Carbon Tetrachloride | 56-23-5 | 153.8 | 0.09 | | 0.57 | | |
| cis-1,2-Dichloroethene | 156-59-2 | 96.94 | 0.09 | U | 0.36 | | |
| Chloroform | 67-66-3 | 119.4 | 1.4 | | 6.84 | | |
| 1,1,1-Trichloroethane | 71-55-6 | 133.4 | 0.01 | U | 0.05 | | |
| 2,2,4-Trimethylpentane | 540-84-1 | 114.2 | 0.1 | U | 0.47 | | |
| Benzene | 71-43-2 | 78.11 | 0.6 | | 1.92 | | |
| 1,2-Dichloroethane | 107-06-2 | 98.96 | 0.09 | U | 0.36 | | |
| Trichloroethene | 79-01-6 | 131.4 | 0.02 | U | 0.11 | | |
| 1,2-Dichloropropane | 78-87-5 | 113 | 0.11 | U | 0.51 | | |
| Bromodichloromethane | 75-27-4 | 163.8 | 0.08 | U | 0.54 | | |
| 4-Methyl-2-Pentanone | 108-10-1 | 100.2 | 0.09 | U | 0.37 | | |
| Toluene | 108-88-3 | 92.14 | 0.49 | J | 1.85 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site **Sampling Date :** 03/25/25

**Field Id Number :** IA-B10-2-3242025 **Analysis Date :** 04/11/25

**Laboratory Id Number :** Q1665-03 **Target Analyts :** Air Results

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| t-1,3-Dichloropropene | 10061-02-6 | 111 | 0.06 | U | 0.27 | | |
| cis-1,3-Dichloropropene | 10061-01-5 | 111 | 0.06 | U | 0.27 | | |
| 1,1,2-Trichloroethane | 79-00-5 | 133.4 | 0.07 | U | 0.38 | | |
| Dibromochloromethane | 124-48-1 | 208.3 | 0.07 | U | 0.6 | | |
| 1,2-Dibromoethane | 106-93-4 | 187.9 | 0.07 | U | 0.54 | | |
| Tetrachloroethene | 127-18-4 | 165.8 | 0.04 | | 0.27 | | |
| Chlorobenzene | 108-90-7 | 112.6 | 0.08 | U | 0.37 | | |
| Ethyl Benzene | 100-41-4 | 106.2 | 0.12 | U | 0.52 | | |
| m/p-Xylene | 179601-23-1 | 106.2 | 0.21 | U | 0.91 | | |
| o-Xylene | 95-47-6 | 106.2 | 0.12 | J | 0.52 | | |
| Styrene | 100-42-5 | 104.1 | 0.11 | U | 0.47 | | |
| Bromoform | 75-25-2 | 252.8 | 0.06 | U | 0.62 | | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 167.9 | 0.01 | U | 0.07 | | |
| 2-Chlorotoluene | 95-49-8 | 126.6 | 0.11 | U | 0.57 | | |
| 1,3,5-Trimethylbenzene | 108-67-8 | 120.2 | 0.11 | U | 0.54 | | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 120.2 | 0.12 | J | 0.59 | | |
| 1,3-Dichlorobenzene | 541-73-1 | 147 | 0.08 | U | 0.48 | | |
| 1,4-Dichlorobenzene | 106-46-7 | 147 | 0.05 | U | 0.3 | | |
| 1,2-Dichlorobenzene | 95-50-1 | 147 | 0.08 | U | 0.48 | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 181.5 | 0.09 | U | 0.67 | | |
| Hexachloro-1,3-Butadiene | 87-68-3 | 260.8 | 0.09 | U | 0.96 | | |
| Naphthalene | 91-20-3 | 128.17 | 0.08 | U | 0.42 | | |
| 1,3-Butadiene | 106-99-0 | 54.09 | 0.13 | U | 0.29 | | |
| 4-Ethyltoluene | 622-96-8 | 120.2 | 0.12 | U | 0.59 | | |
| Hexane | 110-54-3 | 86.17 | 2.5 | | 8.81 | | |
| Allyl Chloride | 107-05-1 | 76.53 | 0.15 | U | 0.47 | | |
| 1,4-Dioxane | 123-91-1 | 88.12 | 0.21 | U | 0.76 | | |
| Methyl Methacrylate | 80-62-6 | 100.117 | 0.09 | U | 0.37 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site

**Sampling Date :** 03/25/25

**Field Id Number :** IA-B10-2-3242025DL

**Analysis Date :** 04/11/25

**Laboratory Id Number :** Q1665-03DL

**Target Analyts :** Air Results

| Chemical | Cas Number | Molecular Weight | Insert Results in PPBV | Qualifier | Generate Results in ug/m3 | QAS Decision | Foot Notes |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 120.9 | 2.1 | UD | 10.4 | | |
| Ethanol | 64-17-5 | 46.07 | 1800 | ED | 3391 | | |
| Chloromethane | 74-87-3 | 50.49 | 0.98 | UD | 2.02 | | |
| Vinyl Chloride | 75-01-4 | 62.5 | 0.14 | UD | 0.36 | | |
| Bromomethane | 74-83-9 | 94.94 | 1.4 | UD | 5.44 | | |
| Chloroethane | 75-00-3 | 64.52 | 1.7 | UD | 4.49 | | |
| Tetrahydrofuran | 109-99-9 | 72.11 | 1.3 | UD | 3.83 | | |
| Trichlorofluoromethane | 75-69-4 | 137.4 | 1.6 | UD | 8.99 | | |
| Dichlorotetrafluoroethane | 76-14-2 | 170.9 | 0.88 | UD | 6.15 | | |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1 | 187.4 | 1.6 | UD | 12.3 | | |
| Bromoethene | 593-60-2 | 106.9 | 1.2 | UD | 5.25 | | |
| tert-Butyl alcohol | 75-65-0 | 74.12 | 1.9 | UD | 5.76 | | |
| Heptane | 142-82-5 | 100.2 | 1.1 | UD | 4.51 | | |
| Isopropyl Alcohol | 67-63-0 | 60.1 | 88 | D | 216 | | |
| 1,1-Dichloroethene | 75-35-4 | 96.94 | 1.4 | UD | 5.55 | | |
| Acetone | 67-64-1 | 58.08 | 140 | D | 332 | | |
| Carbon Disulfide | 75-15-0 | 76.14 | 1.6 | UD | 4.98 | | |
| Methyl tert-Butyl Ether | 1634-04-4 | 88.15 | 1.2 | UD | 4.33 | | |
| Methylene Chloride | 75-09-2 | 84.94 | 3.3 | JD | 11.5 | | |
| trans-1,2-Dichloroethene | 156-60-5 | 96.94 | 1.9 | UD | 7.53 | | |
| 1,1-Dichloroethane | 75-34-3 | 98.96 | 1.3 | UD | 5.26 | | |
| Cyclohexane | 110-82-7 | 84.16 | 2.2 | UD | 7.57 | | |
| 2-Butanone | 78-93-3 | 72.11 | 21.5 | D | 63.4 | | |
| Carbon Tetrachloride | 56-23-5 | 153.8 | 0.11 | UD | 0.69 | | |
| cis-1,2-Dichloroethene | 156-59-2 | 96.94 | 0.89 | UD | 3.53 | | |
| Chloroform | 67-66-3 | 119.4 | 1.4 | JD | 6.84 | | |
| 1,1,1-Trichloroethane | 71-55-6 | 133.4 | 0.1 | UD | 0.55 | | |
| 2,2,4-Trimethylpentane | 540-84-1 | 114.2 | 1 | UD | 4.67 | | |
| Benzene | 71-43-2 | 78.11 | 0.87 | UD | 2.78 | | |
| 1,2-Dichloroethane | 107-06-2 | 98.96 | 0.91 | UD | 3.68 | | |
| Trichloroethene | 79-01-6 | 131.4 | 0.17 | UD | 0.91 | | |
| 1,2-Dichloropropane | 78-87-5 | 113 | 1.1 | UD | 5.08 | | |
| Bromodichloromethane | 75-27-4 | 163.8 | 0.77 | UD | 5.16 | | |
| 4-Methyl-2-Pentanone | 108-10-1 | 100.2 | 0.93 | UD | 3.81 | | |
| Toluene | 108-88-3 | 92.14 | 1.1 | UD | 4.15 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site **Sampling Date :** 03/25/25

**Field Id Number :** IA-B10-2-3242025DL **Analysis Date :** 04/11/25

**Laboratory Id Number :** Q1665-03DL **Target Analyts :** Air Results

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| t-1,3-Dichloropropene | 10061-02-6 | 111 | 0.6 | UD | 2.72 | | |
| cis-1,3-Dichloropropene | 10061-01-5 | 111 | 0.64 | UD | 2.91 | | |
| 1,1,2-Trichloroethane | 79-00-5 | 133.4 | 0.71 | UD | 3.87 | | |
| Dibromochloromethane | 124-48-1 | 208.3 | 0.66 | UD | 5.62 | | |
| 1,2-Dibromoethane | 106-93-4 | 187.9 | 0.72 | UD | 5.53 | | |
| Tetrachloroethene | 127-18-4 | 165.8 | 0.15 | UD | 1.02 | | |
| Chlorobenzene | 108-90-7 | 112.6 | 0.76 | UD | 3.5 | | |
| Ethyl Benzene | 100-41-4 | 106.2 | 1.2 | UD | 5.21 | | |
| m/p-Xylene | 179601-23-1 | 106.2 | 2.1 | UD | 9.12 | | |
| o-Xylene | 95-47-6 | 106.2 | 1.2 | UD | 5.21 | | |
| Styrene | 100-42-5 | 104.1 | 1.1 | UD | 4.68 | | |
| Bromoform | 75-25-2 | 252.8 | 0.57 | UD | 5.89 | | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 167.9 | 0.11 | UD | 0.76 | | |
| 2-Chlorotoluene | 95-49-8 | 126.6 | 1.1 | UD | 5.7 | | |
| 1,3,5-Trimethylbenzene | 108-67-8 | 120.2 | 1.1 | UD | 5.41 | | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 120.2 | 0.78 | UD | 3.83 | | |
| 1,3-Dichlorobenzene | 541-73-1 | 147 | 0.8 | UD | 4.81 | | |
| 1,4-Dichlorobenzene | 106-46-7 | 147 | 0.53 | UD | 3.19 | | |
| 1,2-Dichlorobenzene | 95-50-1 | 147 | 0.75 | UD | 4.51 | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 181.5 | 0.85 | UD | 6.31 | | |
| Hexachloro-1,3-Butadiene | 87-68-3 | 260.8 | 0.85 | UD | 9.07 | | |
| Naphthalene | 91-20-3 | 128.17 | 0.75 | UD | 3.93 | | |
| 1,3-Butadiene | 106-99-0 | 54.09 | 1.3 | UD | 2.88 | | |
| 4-Ethyltoluene | 622-96-8 | 120.2 | 1.2 | UD | 5.9 | | |
| Hexane | 110-54-3 | 86.17 | 1.9 | JD | 6.7 | | |
| Allyl Chloride | 107-05-1 | 76.53 | 1.5 | UD | 4.7 | | |
| 1,4-Dioxane | 123-91-1 | 88.12 | 2.1 | UD | 7.57 | | |
| Methyl Methacrylate | 80-62-6 | 100.117 | 0.86 | UD | 3.52 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site

**Sampling Date :** 03/25/25

**Field Id Number :** AA-1-3242025

**Analysis Date :** 04/09/25

**Laboratory Id Number :** Q1665-04

**Target Analyts :** Air Results

| Chemical | Cas Number | Molecular Weight | Insert Results in PPBV | Qualifier | Generate Results in ug/m3 | QAS Decision | Foot Notes |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 120.9 | 0.4 | J | 1.98 | | |
| Ethanol | 64-17-5 | 46.07 | 12.8 | | 24.1 | | |
| Chloromethane | 74-87-3 | 50.49 | 0.55 | | 1.14 | | |
| Vinyl Chloride | 75-01-4 | 62.5 | 0.01 | U | 0.03 | | |
| Bromomethane | 74-83-9 | 94.94 | 0.14 | U | 0.54 | | |
| Chloroethane | 75-00-3 | 64.52 | 0.17 | U | 0.45 | | |
| Tetrahydrofuran | 109-99-9 | 72.11 | 0.13 | U | 0.38 | | |
| Trichlorofluoromethane | 75-69-4 | 137.4 | 0.21 | J | 1.18 | | |
| Dichlorotetrafluoroethane | 76-14-2 | 170.9 | 0.09 | U | 0.63 | | |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1 | 187.4 | 0.16 | U | 1.23 | | |
| Bromoethene | 593-60-2 | 106.9 | 0.12 | U | 0.52 | | |
| tert-Butyl alcohol | 75-65-0 | 74.12 | 0.19 | U | 0.58 | | |
| Heptane | 142-82-5 | 100.2 | 0.11 | U | 0.45 | | |
| Isopropyl Alcohol | 67-63-0 | 60.1 | 1.2 | | 2.95 | | |
| 1,1-Dichloroethene | 75-35-4 | 96.94 | 0.14 | U | 0.56 | | |
| Acetone | 67-64-1 | 58.08 | 3.5 | | 8.31 | | |
| Carbon Disulfide | 75-15-0 | 76.14 | 0.16 | U | 0.5 | | |
| Methyl tert-Butyl Ether | 1634-04-4 | 88.15 | 0.12 | U | 0.43 | | |
| Methylene Chloride | 75-09-2 | 84.94 | 0.67 | | 2.33 | | |
| trans-1,2-Dichloroethene | 156-60-5 | 96.94 | 0.19 | U | 0.75 | | |
| 1,1-Dichloroethane | 75-34-3 | 98.96 | 0.13 | U | 0.53 | | |
| Cyclohexane | 110-82-7 | 84.16 | 0.22 | U | 0.76 | | |
| 2-Butanone | 78-93-3 | 72.11 | 0.35 | J | 1.03 | | |
| Carbon Tetrachloride | 56-23-5 | 153.8 | 0.09 | | 0.57 | | |
| cis-1,2-Dichloroethene | 156-59-2 | 96.94 | 0.09 | U | 0.36 | | |
| Chloroform | 67-66-3 | 119.4 | 0.08 | U | 0.39 | | |
| 1,1,1-Trichloroethane | 71-55-6 | 133.4 | 0.01 | U | 0.05 | | |
| 2,2,4-Trimethylpentane | 540-84-1 | 114.2 | 0.1 | U | 0.47 | | |
| Benzene | 71-43-2 | 78.11 | 0.25 | J | 0.8 | | |
| 1,2-Dichloroethane | 107-06-2 | 98.96 | 0.09 | U | 0.36 | | |
| Trichloroethene | 79-01-6 | 131.4 | 0.02 | U | 0.11 | | |
| 1,2-Dichloropropane | 78-87-5 | 113 | 0.11 | U | 0.51 | | |
| Bromodichloromethane | 75-27-4 | 163.8 | 0.08 | U | 0.54 | | |
| 4-Methyl-2-Pentanone | 108-10-1 | 100.2 | 0.09 | U | 0.37 | | |
| Toluene | 108-88-3 | 92.14 | 0.28 | J | 1.06 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site **Sampling Date :** 03/25/25

**Field Id Number :** AA-1-3242025 **Analysis Date :** 04/09/25

**Laboratory Id Number :** Q1665-04 **Target Analyts :** Air Results

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| t-1,3-Dichloropropene | 10061-02-6 | 111 | 0.06 | U | 0.27 | | |
| cis-1,3-Dichloropropene | 10061-01-5 | 111 | 0.06 | U | 0.27 | | |
| 1,1,2-Trichloroethane | 79-00-5 | 133.4 | 0.07 | U | 0.38 | | |
| Dibromochloromethane | 124-48-1 | 208.3 | 0.07 | U | 0.6 | | |
| 1,2-Dibromoethane | 106-93-4 | 187.9 | 0.07 | U | 0.54 | | |
| Tetrachloroethene | 127-18-4 | 165.8 | 0.02 | U | 0.14 | | |
| Chlorobenzene | 108-90-7 | 112.6 | 0.08 | U | 0.37 | | |
| Ethyl Benzene | 100-41-4 | 106.2 | 0.12 | U | 0.52 | | |
| m/p-Xylene | 179601-23-1 | 106.2 | 0.21 | U | 0.91 | | |
| o-Xylene | 95-47-6 | 106.2 | 0.12 | U | 0.52 | | |
| Styrene | 100-42-5 | 104.1 | 0.11 | U | 0.47 | | |
| Bromoform | 75-25-2 | 252.8 | 0.06 | U | 0.62 | | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 167.9 | 0.01 | U | 0.07 | | |
| 2-Chlorotoluene | 95-49-8 | 126.6 | 0.11 | U | 0.57 | | |
| 1,3,5-Trimethylbenzene | 108-67-8 | 120.2 | 0.11 | U | 0.54 | | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 120.2 | 0.08 | U | 0.39 | | |
| 1,3-Dichlorobenzene | 541-73-1 | 147 | 0.08 | U | 0.48 | | |
| 1,4-Dichlorobenzene | 106-46-7 | 147 | 0.05 | U | 0.3 | | |
| 1,2-Dichlorobenzene | 95-50-1 | 147 | 0.08 | U | 0.48 | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 181.5 | 0.09 | U | 0.67 | | |
| Hexachloro-1,3-Butadiene | 87-68-3 | 260.8 | 0.09 | U | 0.96 | | |
| Naphthalene | 91-20-3 | 128.17 | 0.08 | U | 0.42 | | |
| 1,3-Butadiene | 106-99-0 | 54.09 | 0.13 | U | 0.29 | | |
| 4-Ethyltoluene | 622-96-8 | 120.2 | 0.12 | U | 0.59 | | |
| Hexane | 110-54-3 | 86.17 | 1.1 | | 3.88 | | |
| Allyl Chloride | 107-05-1 | 76.53 | 0.15 | U | 0.47 | | |
| 1,4-Dioxane | 123-91-1 | 88.12 | 0.21 | U | 0.76 | | |
| Methyl Methacrylate | 80-62-6 | 100.117 | 0.09 | U | 0.37 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site

**Sampling Date :** 03/25/25

**Field Id Number :** IA-B2-3-3242025

**Analysis Date :** 04/28/25

**Laboratory Id Number :** Q1665-05

**Target Analyts :** Air Results

| Chemical | Cas Number | Molecular Weight | Insert Results in PPBV | Qualifier | Generate Results in ug/m3 | QAS Decision | Foot Notes |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 120.9 | 0.46 | J | 2.27 | | |
| Ethanol | 64-17-5 | 46.07 | 270 | E | 508 | | |
| Chloromethane | 74-87-3 | 50.49 | 0.48 | J | 0.99 | | |
| Vinyl Chloride | 75-01-4 | 62.5 | 0.01 | U | 0.03 | | |
| Bromomethane | 74-83-9 | 94.94 | 0.14 | U | 0.54 | | |
| Chloroethane | 75-00-3 | 64.52 | 0.17 | U | 0.45 | | |
| Tetrahydrofuran | 109-99-9 | 72.11 | 0.13 | U | 0.38 | | |
| Trichlorofluoromethane | 75-69-4 | 137.4 | 0.21 | J | 1.18 | | |
| Dichlorotetrafluoroethane | 76-14-2 | 170.9 | 0.09 | U | 0.63 | | |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1 | 187.4 | 0.16 | U | 1.23 | | |
| Bromoethene | 593-60-2 | 106.9 | 0.12 | U | 0.52 | | |
| tert-Butyl alcohol | 75-65-0 | 74.12 | 3.1 | | 9.4 | | |
| Heptane | 142-82-5 | 100.2 | 0.5 | | 2.05 | | |
| Isopropyl Alcohol | 67-63-0 | 60.1 | 32.2 | E | 79.2 | | |
| 1,1-Dichloroethene | 75-35-4 | 96.94 | 0.14 | U | 0.56 | | |
| Acetone | 67-64-1 | 58.08 | 14.7 | | 34.9 | | |
| Carbon Disulfide | 75-15-0 | 76.14 | 0.16 | U | 0.5 | | |
| Methyl tert-Butyl Ether | 1634-04-4 | 88.15 | 0.12 | U | 0.43 | | |
| Methylene Chloride | 75-09-2 | 84.94 | 1.2 | | 4.17 | | |
| trans-1,2-Dichloroethene | 156-60-5 | 96.94 | 0.19 | U | 0.75 | | |
| 1,1-Dichloroethane | 75-34-3 | 98.96 | 0.13 | U | 0.53 | | |
| Cyclohexane | 110-82-7 | 84.16 | 0.25 | J | 0.86 | | |
| 2-Butanone | 78-93-3 | 72.11 | 0.87 | | 2.57 | | |
| Carbon Tetrachloride | 56-23-5 | 153.8 | 0.08 | | 0.5 | | |
| cis-1,2-Dichloroethene | 156-59-2 | 96.94 | 0.09 | U | 0.36 | | |
| Chloroform | 67-66-3 | 119.4 | 0.08 | U | 0.39 | | |
| 1,1,1-Trichloroethane | 71-55-6 | 133.4 | 0.01 | U | 0.05 | | |
| 2,2,4-Trimethylpentane | 540-84-1 | 114.2 | 0.76 | | 3.55 | | |
| Benzene | 71-43-2 | 78.11 | 0.49 | J | 1.57 | | |
| 1,2-Dichloroethane | 107-06-2 | 98.96 | 0.46 | J | 1.86 | | |
| Trichloroethene | 79-01-6 | 131.4 | 0.02 | U | 0.11 | | |
| 1,2-Dichloropropane | 78-87-5 | 113 | 0.11 | U | 0.51 | | |
| Bromodichloromethane | 75-27-4 | 163.8 | 0.08 | U | 0.54 | | |
| 4-Methyl-2-Pentanone | 108-10-1 | 100.2 | 0.36 | J | 1.48 | | |
| Toluene | 108-88-3 | 92.14 | 4.6 | | 17.3 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site **Sampling Date :** 03/25/25

**Field Id Number :** IA-B2-3-3242025 **Analysis Date :** 04/28/25

**Laboratory Id Number :** Q1665-05 **Target Analyts :** Air Results

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| t-1,3-Dichloropropene | 10061-02-6 | 111 | 0.06 | U | 0.27 | | |
| cis-1,3-Dichloropropene | 10061-01-5 | 111 | 0.06 | U | 0.27 | | |
| 1,1,2-Trichloroethane | 79-00-5 | 133.4 | 0.07 | U | 0.38 | | |
| Dibromochloromethane | 124-48-1 | 208.3 | 0.07 | U | 0.6 | | |
| 1,2-Dibromoethane | 106-93-4 | 187.9 | 0.07 | U | 0.54 | | |
| Tetrachloroethene | 127-18-4 | 165.8 | 0.05 | | 0.34 | | |
| Chlorobenzene | 108-90-7 | 112.6 | 0.08 | U | 0.37 | | |
| Ethyl Benzene | 100-41-4 | 106.2 | 0.56 | | 2.43 | | |
| m/p-Xylene | 179601-23-1 | 106.2 | 1.4 | | 6.08 | | |
| o-Xylene | 95-47-6 | 106.2 | 0.58 | | 2.52 | | |
| Styrene | 100-42-5 | 104.1 | 0.46 | J | 1.96 | | |
| Bromoform | 75-25-2 | 252.8 | 0.06 | U | 0.62 | | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 167.9 | 0.01 | U | 0.07 | | |
| 2-Chlorotoluene | 95-49-8 | 126.6 | 0.11 | U | 0.57 | | |
| 1,3,5-Trimethylbenzene | 108-67-8 | 120.2 | 0.18 | J | 0.88 | | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 120.2 | 0.48 | J | 2.36 | | |
| 1,3-Dichlorobenzene | 541-73-1 | 147 | 0.08 | U | 0.48 | | |
| 1,4-Dichlorobenzene | 106-46-7 | 147 | 0.05 | U | 0.3 | | |
| 1,2-Dichlorobenzene | 95-50-1 | 147 | 0.08 | U | 0.48 | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 181.5 | 0.09 | U | 0.67 | | |
| Hexachloro-1,3-Butadiene | 87-68-3 | 260.8 | 0.09 | U | 0.96 | | |
| Naphthalene | 91-20-3 | 128.17 | 0.11 | | 0.58 | | |
| 1,3-Butadiene | 106-99-0 | 54.09 | 0.13 | U | 0.29 | | |
| 4-Ethyltoluene | 622-96-8 | 120.2 | 0.14 | J | 0.69 | | |
| Hexane | 110-54-3 | 86.17 | 2.3 | | 8.11 | | |
| Allyl Chloride | 107-05-1 | 76.53 | 0.15 | U | 0.47 | | |
| 1,4-Dioxane | 123-91-1 | 88.12 | 0.21 | U | 0.76 | | |
| Methyl Methacrylate | 80-62-6 | 100.117 | 0.09 | U | 0.37 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site

**Sampling Date :** 03/25/25

**Field Id Number :** IA-B9-1-3242025

**Analysis Date :** 04/09/25

**Laboratory Id Number :** Q1665-06

**Target Analyts :** Air Results

| Chemical | Cas Number | Molecular Weight | Insert Results in PPBV | Qualifier | Generate Results in ug/m3 | QAS Decision | Foot Notes |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 120.9 | 0.37 | J | 1.83 | | |
| Ethanol | 64-17-5 | 46.07 | 37.8 | E | 71.2 | | |
| Chloromethane | 74-87-3 | 50.49 | 0.58 | | 1.2 | | |
| Vinyl Chloride | 75-01-4 | 62.5 | 0.01 | U | 0.03 | | |
| Bromomethane | 74-83-9 | 94.94 | 0.14 | U | 0.54 | | |
| Chloroethane | 75-00-3 | 64.52 | 0.17 | U | 0.45 | | |
| Tetrahydrofuran | 109-99-9 | 72.11 | 0.33 | J | 0.97 | | |
| Trichlorofluoromethane | 75-69-4 | 137.4 | 0.22 | J | 1.24 | | |
| Dichlorotetrafluoroethane | 76-14-2 | 170.9 | 0.09 | U | 0.63 | | |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1 | 187.4 | 0.16 | U | 1.23 | | |
| Bromoethene | 593-60-2 | 106.9 | 0.12 | U | 0.52 | | |
| tert-Butyl alcohol | 75-65-0 | 74.12 | 0.19 | U | 0.58 | | |
| Heptane | 142-82-5 | 100.2 | 0.12 | J | 0.49 | | |
| Isopropyl Alcohol | 67-63-0 | 60.1 | 23.4 | E | 57.5 | | |
| 1,1-Dichloroethene | 75-35-4 | 96.94 | 0.14 | U | 0.56 | | |
| Acetone | 67-64-1 | 58.08 | 8.5 | | 20.2 | | |
| Carbon Disulfide | 75-15-0 | 76.14 | 0.16 | U | 0.5 | | |
| Methyl tert-Butyl Ether | 1634-04-4 | 88.15 | 0.12 | U | 0.43 | | |
| Methylene Chloride | 75-09-2 | 84.94 | 1.1 | | 3.82 | | |
| trans-1,2-Dichloroethene | 156-60-5 | 96.94 | 0.19 | U | 0.75 | | |
| 1,1-Dichloroethane | 75-34-3 | 98.96 | 0.13 | U | 0.53 | | |
| Cyclohexane | 110-82-7 | 84.16 | 0.22 | U | 0.76 | | |
| 2-Butanone | 78-93-3 | 72.11 | 4.7 | | 13.9 | | |
| Carbon Tetrachloride | 56-23-5 | 153.8 | 0.08 | | 0.5 | | |
| cis-1,2-Dichloroethene | 156-59-2 | 96.94 | 0.09 | U | 0.36 | | |
| Chloroform | 67-66-3 | 119.4 | 0.08 | U | 0.39 | | |
| 1,1,1-Trichloroethane | 71-55-6 | 133.4 | 0.01 | U | 0.05 | | |
| 2,2,4-Trimethylpentane | 540-84-1 | 114.2 | 0.1 | U | 0.47 | | |
| Benzene | 71-43-2 | 78.11 | 0.29 | J | 0.93 | | |
| 1,2-Dichloroethane | 107-06-2 | 98.96 | 0.09 | U | 0.36 | | |
| Trichloroethene | 79-01-6 | 131.4 | 0.02 | U | 0.11 | | |
| 1,2-Dichloropropane | 78-87-5 | 113 | 0.11 | U | 0.51 | | |
| Bromodichloromethane | 75-27-4 | 163.8 | 0.08 | U | 0.54 | | |
| 4-Methyl-2-Pentanone | 108-10-1 | 100.2 | 0.09 | U | 0.37 | | |
| Toluene | 108-88-3 | 92.14 | 0.48 | J | 1.81 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site **Sampling Date :** 03/25/25

**Field Id Number :** IA-B9-1-3242025 **Analysis Date :** 04/09/25

**Laboratory Id Number :** Q1665-06 **Target Analyts :** Air Results

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| t-1,3-Dichloropropene | 10061-02-6 | 111 | 0.06 | U | 0.27 | | |
| cis-1,3-Dichloropropene | 10061-01-5 | 111 | 0.06 | U | 0.27 | | |
| 1,1,2-Trichloroethane | 79-00-5 | 133.4 | 0.07 | U | 0.38 | | |
| Dibromochloromethane | 124-48-1 | 208.3 | 0.07 | U | 0.6 | | |
| 1,2-Dibromoethane | 106-93-4 | 187.9 | 0.07 | U | 0.54 | | |
| Tetrachloroethene | 127-18-4 | 165.8 | 0.02 | U | 0.14 | | |
| Chlorobenzene | 108-90-7 | 112.6 | 0.24 | J | 1.11 | | |
| Ethyl Benzene | 100-41-4 | 106.2 | 0.12 | U | 0.52 | | |
| m/p-Xylene | 179601-23-1 | 106.2 | 0.21 | U | 0.91 | | |
| o-Xylene | 95-47-6 | 106.2 | 0.12 | U | 0.52 | | |
| Styrene | 100-42-5 | 104.1 | 0.11 | U | 0.47 | | |
| Bromoform | 75-25-2 | 252.8 | 0.06 | U | 0.62 | | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 167.9 | 0.01 | U | 0.07 | | |
| 2-Chlorotoluene | 95-49-8 | 126.6 | 0.11 | U | 0.57 | | |
| 1,3,5-Trimethylbenzene | 108-67-8 | 120.2 | 0.11 | U | 0.54 | | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 120.2 | 0.08 | U | 0.39 | | |
| 1,3-Dichlorobenzene | 541-73-1 | 147 | 0.08 | U | 0.48 | | |
| 1,4-Dichlorobenzene | 106-46-7 | 147 | 0.05 | U | 0.3 | | |
| 1,2-Dichlorobenzene | 95-50-1 | 147 | 0.08 | U | 0.48 | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 181.5 | 0.09 | U | 0.67 | | |
| Hexachloro-1,3-Butadiene | 87-68-3 | 260.8 | 0.09 | U | 0.96 | | |
| Naphthalene | 91-20-3 | 128.17 | 0.08 | U | 0.42 | | |
| 1,3-Butadiene | 106-99-0 | 54.09 | 0.13 | U | 0.29 | | |
| 4-Ethyltoluene | 622-96-8 | 120.2 | 0.12 | U | 0.59 | | |
| Hexane | 110-54-3 | 86.17 | 2 | | 7.05 | | |
| Allyl Chloride | 107-05-1 | 76.53 | 0.15 | U | 0.47 | | |
| 1,4-Dioxane | 123-91-1 | 88.12 | 0.21 | U | 0.76 | | |
| Methyl Methacrylate | 80-62-6 | 100.117 | 0.09 | U | 0.37 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site

**Sampling Date :** 03/25/25

**Field Id Number :** IA-DUP-1-3242025

**Analysis Date :** 04/28/25

**Laboratory Id Number :** Q1665-07

**Target Analyts :** Air Results

| Chemical | Cas Number | Molecular Weight | Insert Results in PPBV | Qualifier | Generate Results in ug/m3 | QAS Decision | Foot Notes |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 120.9 | 0.43 | J | 2.13 | | |
| Ethanol | 64-17-5 | 46.07 | 270 | E | 508 | | |
| Chloromethane | 74-87-3 | 50.49 | 0.56 | | 1.16 | | |
| Vinyl Chloride | 75-01-4 | 62.5 | 0.01 | U | 0.03 | | |
| Bromomethane | 74-83-9 | 94.94 | 0.14 | U | 0.54 | | |
| Chloroethane | 75-00-3 | 64.52 | 0.17 | U | 0.45 | | |
| Tetrahydrofuran | 109-99-9 | 72.11 | 0.17 | J | 0.5 | | |
| Trichlorofluoromethane | 75-69-4 | 137.4 | 0.21 | J | 1.18 | | |
| Dichlorotetrafluoroethane | 76-14-2 | 170.9 | 0.09 | U | 0.63 | | |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1 | 187.4 | 0.16 | U | 1.23 | | |
| Bromoethene | 593-60-2 | 106.9 | 0.12 | U | 0.52 | | |
| tert-Butyl alcohol | 75-65-0 | 74.12 | 3 | | 9.09 | | |
| Heptane | 142-82-5 | 100.2 | 0.47 | J | 1.93 | | |
| Isopropyl Alcohol | 67-63-0 | 60.1 | 33.4 | E | 82.1 | | |
| 1,1-Dichloroethene | 75-35-4 | 96.94 | 0.14 | U | 0.56 | | |
| Acetone | 67-64-1 | 58.08 | 17.3 | E | 41.1 | | |
| Carbon Disulfide | 75-15-0 | 76.14 | 0.16 | U | 0.5 | | |
| Methyl tert-Butyl Ether | 1634-04-4 | 88.15 | 0.12 | U | 0.43 | | |
| Methylene Chloride | 75-09-2 | 84.94 | 0.99 | | 3.44 | | |
| trans-1,2-Dichloroethene | 156-60-5 | 96.94 | 0.19 | U | 0.75 | | |
| 1,1-Dichloroethane | 75-34-3 | 98.96 | 0.13 | U | 0.53 | | |
| Cyclohexane | 110-82-7 | 84.16 | 0.24 | J | 0.83 | | |
| 2-Butanone | 78-93-3 | 72.11 | 0.85 | | 2.51 | | |
| Carbon Tetrachloride | 56-23-5 | 153.8 | 0.07 | | 0.44 | | |
| cis-1,2-Dichloroethene | 156-59-2 | 96.94 | 0.09 | U | 0.36 | | |
| Chloroform | 67-66-3 | 119.4 | 0.08 | U | 0.39 | | |
| 1,1,1-Trichloroethane | 71-55-6 | 133.4 | 0.01 | U | 0.05 | | |
| 2,2,4-Trimethylpentane | 540-84-1 | 114.2 | 0.63 | | 2.94 | | |
| Benzene | 71-43-2 | 78.11 | 0.49 | J | 1.57 | | |
| 1,2-Dichloroethane | 107-06-2 | 98.96 | 0.48 | J | 1.94 | | |
| Trichloroethene | 79-01-6 | 131.4 | 0.02 | U | 0.11 | | |
| 1,2-Dichloropropane | 78-87-5 | 113 | 0.11 | U | 0.51 | | |
| Bromodichloromethane | 75-27-4 | 163.8 | 0.08 | U | 0.54 | | |
| 4-Methyl-2-Pentanone | 108-10-1 | 100.2 | 0.36 | J | 1.48 | | |
| Toluene | 108-88-3 | 92.14 | 4.4 | | 16.6 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site **Sampling Date :** 03/25/25

**Field Id Number :** IA-DUP-1-3242025 **Analysis Date :** 04/28/25

**Laboratory Id Number :** Q1665-07 **Target Analyts :** Air Results

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| t-1,3-Dichloropropene | 10061-02-6 | 111 | 0.06 | U | 0.27 | | |
| cis-1,3-Dichloropropene | 10061-01-5 | 111 | 0.06 | U | 0.27 | | |
| 1,1,2-Trichloroethane | 79-00-5 | 133.4 | 0.07 | U | 0.38 | | |
| Dibromochloromethane | 124-48-1 | 208.3 | 0.07 | U | 0.6 | | |
| 1,2-Dibromoethane | 106-93-4 | 187.9 | 0.07 | U | 0.54 | | |
| Tetrachloroethene | 127-18-4 | 165.8 | 0.05 | | 0.34 | | |
| Chlorobenzene | 108-90-7 | 112.6 | 0.08 | U | 0.37 | | |
| Ethyl Benzene | 100-41-4 | 106.2 | 0.52 | | 2.26 | | |
| m/p-Xylene | 179601-23-1 | 106.2 | 1.3 | | 5.65 | | |
| o-Xylene | 95-47-6 | 106.2 | 0.51 | | 2.22 | | |
| Styrene | 100-42-5 | 104.1 | 0.43 | J | 1.83 | | |
| Bromoform | 75-25-2 | 252.8 | 0.06 | U | 0.62 | | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 167.9 | 0.01 | U | 0.07 | | |
| 2-Chlorotoluene | 95-49-8 | 126.6 | 0.11 | U | 0.57 | | |
| 1,3,5-Trimethylbenzene | 108-67-8 | 120.2 | 0.15 | J | 0.74 | | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 120.2 | 0.45 | J | 2.21 | | |
| 1,3-Dichlorobenzene | 541-73-1 | 147 | 0.08 | U | 0.48 | | |
| 1,4-Dichlorobenzene | 106-46-7 | 147 | 0.05 | U | 0.3 | | |
| 1,2-Dichlorobenzene | 95-50-1 | 147 | 0.08 | U | 0.48 | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 181.5 | 0.09 | U | 0.67 | | |
| Hexachloro-1,3-Butadiene | 87-68-3 | 260.8 | 0.09 | U | 0.96 | | |
| Naphthalene | 91-20-3 | 128.17 | 0.08 | U | 0.42 | | |
| 1,3-Butadiene | 106-99-0 | 54.09 | 0.13 | U | 0.29 | | |
| 4-Ethyltoluene | 622-96-8 | 120.2 | 0.14 | J | 0.69 | | |
| Hexane | 110-54-3 | 86.17 | 2.3 | | 8.11 | | |
| Allyl Chloride | 107-05-1 | 76.53 | 0.15 | U | 0.47 | | |
| 1,4-Dioxane | 123-91-1 | 88.12 | 0.21 | U | 0.76 | | |
| Methyl Methacrylate | 80-62-6 | 100.117 | 0.09 | U | 0.37 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site

**Sampling Date :** 03/25/25

**Field Id Number :** IA-DUP-1-3242025DL

**Analysis Date :** 04/29/25

**Laboratory Id Number :** Q1665-07DL

**Target Analyts :** Air Results

| Chemical | Cas Number | Molecular Weight | Insert Results in PPBV | Qualifier | Generate Results in ug/m3 | QAS Decision | Foot Notes |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 120.9 | 0.84 | UD | 4.15 | | |
| Ethanol | 64-17-5 | 46.07 | 280 | ED | 527 | | |
| Chloromethane | 74-87-3 | 50.49 | 0.39 | UD | 0.81 | | |
| Vinyl Chloride | 75-01-4 | 62.5 | 0.06 | UD | 0.15 | | |
| Bromomethane | 74-83-9 | 94.94 | 0.56 | UD | 2.17 | | |
| Chloroethane | 75-00-3 | 64.52 | 0.68 | UD | 1.79 | | |
| Tetrahydrofuran | 109-99-9 | 72.11 | 0.52 | UD | 1.53 | | |
| Trichlorofluoromethane | 75-69-4 | 137.4 | 0.64 | UD | 3.6 | | |
| Dichlorotetrafluoroethane | 76-14-2 | 170.9 | 0.35 | UD | 2.45 | | |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1 | 187.4 | 0.64 | UD | 4.91 | | |
| Bromoethene | 593-60-2 | 106.9 | 0.48 | UD | 2.1 | | |
| tert-Butyl alcohol | 75-65-0 | 74.12 | 2.8 | D | 8.49 | | |
| Heptane | 142-82-5 | 100.2 | 0.44 | UD | 1.8 | | |
| Isopropyl Alcohol | 67-63-0 | 60.1 | 32.1 | D | 78.9 | | |
| 1,1-Dichloroethene | 75-35-4 | 96.94 | 0.56 | UD | 2.22 | | |
| Acetone | 67-64-1 | 58.08 | 17.1 | D | 40.6 | | |
| Carbon Disulfide | 75-15-0 | 76.14 | 0.64 | UD | 1.99 | | |
| Methyl tert-Butyl Ether | 1634-04-4 | 88.15 | 0.48 | UD | 1.73 | | |
| Methylene Chloride | 75-09-2 | 84.94 | 0.76 | UD | 2.64 | | |
| trans-1,2-Dichloroethene | 156-60-5 | 96.94 | 0.76 | UD | 3.01 | | |
| 1,1-Dichloroethane | 75-34-3 | 98.96 | 0.52 | UD | 2.1 | | |
| Cyclohexane | 110-82-7 | 84.16 | 0.88 | UD | 3.03 | | |
| 2-Butanone | 78-93-3 | 72.11 | 0.89 | JD | 2.62 | | |
| Carbon Tetrachloride | 56-23-5 | 153.8 | 0.04 | UD | 0.25 | | |
| cis-1,2-Dichloroethene | 156-59-2 | 96.94 | 0.36 | UD | 1.43 | | |
| Chloroform | 67-66-3 | 119.4 | 0.33 | UD | 1.61 | | |
| 1,1,1-Trichloroethane | 71-55-6 | 133.4 | 0.04 | UD | 0.22 | | |
| 2,2,4-Trimethylpentane | 540-84-1 | 114.2 | 0.48 | JD | 2.24 | | |
| Benzene | 71-43-2 | 78.11 | 0.4 | JD | 1.28 | | |
| 1,2-Dichloroethane | 107-06-2 | 98.96 | 0.36 | UD | 1.46 | | |
| Trichloroethene | 79-01-6 | 131.4 | 0.07 | UD | 0.38 | | |
| 1,2-Dichloropropane | 78-87-5 | 113 | 0.44 | UD | 2.03 | | |
| Bromodichloromethane | 75-27-4 | 163.8 | 0.31 | UD | 2.08 | | |
| 4-Methyl-2-Pentanone | 108-10-1 | 100.2 | 0.37 | UD | 1.52 | | |
| Toluene | 108-88-3 | 92.14 | 3.2 | D | 12.1 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site **Sampling Date :** 03/25/25

**Field Id Number :** IA-DUP-1-3242025DL **Analysis Date :** 04/29/25

**Laboratory Id Number :** Q1665-07DL **Target Analyts :** Air Results

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| t-1,3-Dichloropropene | 10061-02-6 | 111 | 0.24 | UD | 1.09 | | |
| cis-1,3-Dichloropropene | 10061-01-5 | 111 | 0.26 | UD | 1.18 | | |
| 1,1,2-Trichloroethane | 79-00-5 | 133.4 | 0.28 | UD | 1.53 | | |
| Dibromochloromethane | 124-48-1 | 208.3 | 0.26 | UD | 2.22 | | |
| 1,2-Dibromoethane | 106-93-4 | 187.9 | 0.29 | UD | 2.23 | | |
| Tetrachloroethene | 127-18-4 | 165.8 | 0.06 | UD | 0.41 | | |
| Chlorobenzene | 108-90-7 | 112.6 | 0.3 | UD | 1.38 | | |
| Ethyl Benzene | 100-41-4 | 106.2 | 0.48 | UD | 2.08 | | |
| m/p-Xylene | 179601-23-1 | 106.2 | 0.84 | UD | 3.65 | | |
| o-Xylene | 95-47-6 | 106.2 | 0.48 | UD | 2.08 | | |
| Styrene | 100-42-5 | 104.1 | 0.44 | UD | 1.87 | | |
| Bromoform | 75-25-2 | 252.8 | 0.23 | UD | 2.38 | | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 167.9 | 0.04 | UD | 0.27 | | |
| 2-Chlorotoluene | 95-49-8 | 126.6 | 0.44 | UD | 2.28 | | |
| 1,3,5-Trimethylbenzene | 108-67-8 | 120.2 | 0.44 | UD | 2.16 | | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 120.2 | 0.31 | UD | 1.52 | | |
| 1,3-Dichlorobenzene | 541-73-1 | 147 | 0.32 | UD | 1.92 | | |
| 1,4-Dichlorobenzene | 106-46-7 | 147 | 0.21 | UD | 1.26 | | |
| 1,2-Dichlorobenzene | 95-50-1 | 147 | 0.3 | UD | 1.8 | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 181.5 | 0.34 | UD | 2.52 | | |
| Hexachloro-1,3-Butadiene | 87-68-3 | 260.8 | 0.34 | UD | 3.63 | | |
| Naphthalene | 91-20-3 | 128.17 | 0.3 | UD | 1.57 | | |
| 1,3-Butadiene | 106-99-0 | 54.09 | 0.52 | UD | 1.15 | | |
| 4-Ethyltoluene | 622-96-8 | 120.2 | 0.48 | UD | 2.36 | | |
| Hexane | 110-54-3 | 86.17 | 1.6 | JD | 5.64 | | |
| Allyl Chloride | 107-05-1 | 76.53 | 0.6 | UD | 1.88 | | |
| 1,4-Dioxane | 123-91-1 | 88.12 | 0.84 | UD | 3.03 | | |
| Methyl Methacrylate | 80-62-6 | 100.117 | 0.34 | UD | 1.39 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site

**Sampling Date :** 03/24/25

**Field Id Number :** IA-DUP-2-3242025

**Analysis Date :** 04/09/25

**Laboratory Id Number :** Q1665-08

**Target Analyts :** Air Results

| Chemical | Cas Number | Molecular Weight | Insert Results in PPBV | Qualifier | Generate Results in ug/m3 | QAS Decision | Foot Notes |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 120.9 | 0.38 | J | 1.88 | | |
| Ethanol | 64-17-5 | 46.07 | 34.2 | E | 64.4 | | |
| Chloromethane | 74-87-3 | 50.49 | 1.1 | | 2.27 | | |
| Vinyl Chloride | 75-01-4 | 62.5 | 0.01 | U | 0.03 | | |
| Bromomethane | 74-83-9 | 94.94 | 0.14 | U | 0.54 | | |
| Chloroethane | 75-00-3 | 64.52 | 0.17 | U | 0.45 | | |
| Tetrahydrofuran | 109-99-9 | 72.11 | 0.21 | J | 0.62 | | |
| Trichlorofluoromethane | 75-69-4 | 137.4 | 0.25 | J | 1.4 | | |
| Dichlorotetrafluoroethane | 76-14-2 | 170.9 | 0.09 | U | 0.63 | | |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1 | 187.4 | 0.16 | U | 1.23 | | |
| Bromoethene | 593-60-2 | 106.9 | 0.12 | U | 0.52 | | |
| tert-Butyl alcohol | 75-65-0 | 74.12 | 0.19 | U | 0.58 | | |
| Heptane | 142-82-5 | 100.2 | 0.11 | U | 0.45 | | |
| Isopropyl Alcohol | 67-63-0 | 60.1 | 17.9 | E | 44 | | |
| 1,1-Dichloroethene | 75-35-4 | 96.94 | 0.14 | U | 0.56 | | |
| Acetone | 67-64-1 | 58.08 | 11.6 | | 27.6 | | |
| Carbon Disulfide | 75-15-0 | 76.14 | 0.16 | U | 0.5 | | |
| Methyl tert-Butyl Ether | 1634-04-4 | 88.15 | 0.12 | U | 0.43 | | |
| Methylene Chloride | 75-09-2 | 84.94 | 1 | | 3.47 | | |
| trans-1,2-Dichloroethene | 156-60-5 | 96.94 | 0.19 | U | 0.75 | | |
| 1,1-Dichloroethane | 75-34-3 | 98.96 | 0.13 | U | 0.53 | | |
| Cyclohexane | 110-82-7 | 84.16 | 0.22 | U | 0.76 | | |
| 2-Butanone | 78-93-3 | 72.11 | 3.3 | | 9.73 | | |
| Carbon Tetrachloride | 56-23-5 | 153.8 | 0.13 | | 0.82 | | |
| cis-1,2-Dichloroethene | 156-59-2 | 96.94 | 0.09 | U | 0.36 | | |
| Chloroform | 67-66-3 | 119.4 | 0.32 | J | 1.56 | | |
| 1,1,1-Trichloroethane | 71-55-6 | 133.4 | 0.01 | U | 0.05 | | |
| 2,2,4-Trimethylpentane | 540-84-1 | 114.2 | 0.1 | U | 0.47 | | |
| Benzene | 71-43-2 | 78.11 | 0.17 | J | 0.54 | | |
| 1,2-Dichloroethane | 107-06-2 | 98.96 | 0.09 | U | 0.36 | | |
| Trichloroethene | 79-01-6 | 131.4 | 0.02 | U | 0.11 | | |
| 1,2-Dichloropropane | 78-87-5 | 113 | 0.11 | U | 0.51 | | |
| Bromodichloromethane | 75-27-4 | 163.8 | 0.08 | U | 0.54 | | |
| 4-Methyl-2-Pentanone | 108-10-1 | 100.2 | 0.09 | U | 0.37 | | |
| Toluene | 108-88-3 | 92.14 | 0.11 | U | 0.41 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site **Sampling Date :** 03/24/25

**Field Id Number :** IA-DUP-2-3242025 **Analysis Date :** 04/09/25

**Laboratory Id Number :** Q1665-08 **Target Analyts :** Air Results

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| t-1,3-Dichloropropene | 10061-02-6 | 111 | 0.06 | U | 0.27 | | |
| cis-1,3-Dichloropropene | 10061-01-5 | 111 | 0.06 | U | 0.27 | | |
| 1,1,2-Trichloroethane | 79-00-5 | 133.4 | 0.07 | U | 0.38 | | |
| Dibromochloromethane | 124-48-1 | 208.3 | 0.07 | U | 0.6 | | |
| 1,2-Dibromoethane | 106-93-4 | 187.9 | 0.07 | U | 0.54 | | |
| Tetrachloroethene | 127-18-4 | 165.8 | 0.02 | U | 0.14 | | |
| Chlorobenzene | 108-90-7 | 112.6 | 0.08 | U | 0.37 | | |
| Ethyl Benzene | 100-41-4 | 106.2 | 0.12 | U | 0.52 | | |
| m/p-Xylene | 179601-23-1 | 106.2 | 0.21 | U | 0.91 | | |
| o-Xylene | 95-47-6 | 106.2 | 0.12 | U | 0.52 | | |
| Styrene | 100-42-5 | 104.1 | 0.11 | U | 0.47 | | |
| Bromoform | 75-25-2 | 252.8 | 0.06 | U | 0.62 | | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 167.9 | 0.01 | U | 0.07 | | |
| 2-Chlorotoluene | 95-49-8 | 126.6 | 0.11 | U | 0.57 | | |
| 1,3,5-Trimethylbenzene | 108-67-8 | 120.2 | 0.11 | U | 0.54 | | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 120.2 | 0.08 | U | 0.39 | | |
| 1,3-Dichlorobenzene | 541-73-1 | 147 | 0.08 | U | 0.48 | | |
| 1,4-Dichlorobenzene | 106-46-7 | 147 | 0.05 | U | 0.3 | | |
| 1,2-Dichlorobenzene | 95-50-1 | 147 | 0.08 | U | 0.48 | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 181.5 | 0.09 | U | 0.67 | | |
| Hexachloro-1,3-Butadiene | 87-68-3 | 260.8 | 0.09 | U | 0.96 | | |
| Naphthalene | 91-20-3 | 128.17 | 0.08 | U | 0.42 | | |
| 1,3-Butadiene | 106-99-0 | 54.09 | 0.13 | U | 0.29 | | |
| 4-Ethyltoluene | 622-96-8 | 120.2 | 0.12 | U | 0.59 | | |
| Hexane | 110-54-3 | 86.17 | 0.94 | | 3.31 | | |
| Allyl Chloride | 107-05-1 | 76.53 | 0.15 | U | 0.47 | | |
| 1,4-Dioxane | 123-91-1 | 88.12 | 0.21 | U | 0.76 | | |
| Methyl Methacrylate | 80-62-6 | 100.117 | 0.09 | U | 0.37 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site
**Sampling Date :** 03/25/25
**Field Id Number :** IA-B9-2-3242025
**Analysis Date :** 04/09/25
**Laboratory Id Number :** Q1665-09
**Target Analyts :** Air Results

| Chemical | Cas Number | Molecular Weight | Insert Results in PPBV | Qualifier | Generate Results in ug/m3 | QAS Decision | Foot Notes |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 120.9 | 0.42 | J | 2.08 | | |
| Ethanol | 64-17-5 | 46.07 | 25.6 | E | 48.2 | | |
| Chloromethane | 74-87-3 | 50.49 | 0.58 | | 1.2 | | |
| Vinyl Chloride | 75-01-4 | 62.5 | 0.01 | U | 0.03 | | |
| Bromomethane | 74-83-9 | 94.94 | 0.14 | U | 0.54 | | |
| Chloroethane | 75-00-3 | 64.52 | 0.17 | U | 0.45 | | |
| Tetrahydrofuran | 109-99-9 | 72.11 | 0.13 | U | 0.38 | | |
| Trichlorofluoromethane | 75-69-4 | 137.4 | 0.22 | J | 1.24 | | |
| Dichlorotetrafluoroethane | 76-14-2 | 170.9 | 0.09 | U | 0.63 | | |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1 | 187.4 | 0.16 | U | 1.23 | | |
| Bromoethene | 593-60-2 | 106.9 | 0.12 | U | 0.52 | | |
| tert-Butyl alcohol | 75-65-0 | 74.12 | 0.19 | U | 0.58 | | |
| Heptane | 142-82-5 | 100.2 | 0.12 | J | 0.49 | | |
| Isopropyl Alcohol | 67-63-0 | 60.1 | 21.2 | E | 52.1 | | |
| 1,1-Dichloroethene | 75-35-4 | 96.94 | 0.14 | U | 0.56 | | |
| Acetone | 67-64-1 | 58.08 | 6.4 | | 15.2 | | |
| Carbon Disulfide | 75-15-0 | 76.14 | 0.16 | U | 0.5 | | |
| Methyl tert-Butyl Ether | 1634-04-4 | 88.15 | 0.12 | U | 0.43 | | |
| Methylene Chloride | 75-09-2 | 84.94 | 1.2 | | 4.17 | | |
| trans-1,2-Dichloroethene | 156-60-5 | 96.94 | 0.19 | U | 0.75 | | |
| 1,1-Dichloroethane | 75-34-3 | 98.96 | 0.13 | U | 0.53 | | |
| Cyclohexane | 110-82-7 | 84.16 | 0.22 | U | 0.76 | | |
| 2-Butanone | 78-93-3 | 72.11 | 3.2 | | 9.44 | | |
| Carbon Tetrachloride | 56-23-5 | 153.8 | 0.09 | | 0.57 | | |
| cis-1,2-Dichloroethene | 156-59-2 | 96.94 | 0.09 | U | 0.36 | | |
| Chloroform | 67-66-3 | 119.4 | 0.08 | U | 0.39 | | |
| 1,1,1-Trichloroethane | 71-55-6 | 133.4 | 0.01 | U | 0.05 | | |
| 2,2,4-Trimethylpentane | 540-84-1 | 114.2 | 0.1 | U | 0.47 | | |
| Benzene | 71-43-2 | 78.11 | 0.3 | J | 0.96 | | |
| 1,2-Dichloroethane | 107-06-2 | 98.96 | 0.09 | U | 0.36 | | |
| Trichloroethene | 79-01-6 | 131.4 | 0.02 | U | 0.11 | | |
| 1,2-Dichloropropane | 78-87-5 | 113 | 0.11 | U | 0.51 | | |
| Bromodichloromethane | 75-27-4 | 163.8 | 0.08 | U | 0.54 | | |
| 4-Methyl-2-Pentanone | 108-10-1 | 100.2 | 0.09 | U | 0.37 | | |
| Toluene | 108-88-3 | 92.14 | 0.39 | J | 1.47 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site **Sampling Date :** 03/25/25

**Field Id Number :** IA-B9-2-3242025 **Analysis Date :** 04/09/25

**Laboratory Id Number :** Q1665-09 **Target Analyts :** Air Results

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| t-1,3-Dichloropropene | 10061-02-6 | 111 | 0.06 | U | 0.27 | | |
| cis-1,3-Dichloropropene | 10061-01-5 | 111 | 0.06 | U | 0.27 | | |
| 1,1,2-Trichloroethane | 79-00-5 | 133.4 | 0.07 | U | 0.38 | | |
| Dibromochloromethane | 124-48-1 | 208.3 | 0.07 | U | 0.6 | | |
| 1,2-Dibromoethane | 106-93-4 | 187.9 | 0.07 | U | 0.54 | | |
| Tetrachloroethene | 127-18-4 | 165.8 | 0.02 | U | 0.14 | | |
| Chlorobenzene | 108-90-7 | 112.6 | 0.2 | J | 0.92 | | |
| Ethyl Benzene | 100-41-4 | 106.2 | 0.12 | U | 0.52 | | |
| m/p-Xylene | 179601-23-1 | 106.2 | 0.21 | U | 0.91 | | |
| o-Xylene | 95-47-6 | 106.2 | 0.12 | U | 0.52 | | |
| Styrene | 100-42-5 | 104.1 | 0.11 | U | 0.47 | | |
| Bromoform | 75-25-2 | 252.8 | 0.06 | U | 0.62 | | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 167.9 | 0.01 | U | 0.07 | | |
| 2-Chlorotoluene | 95-49-8 | 126.6 | 0.11 | U | 0.57 | | |
| 1,3,5-Trimethylbenzene | 108-67-8 | 120.2 | 0.11 | U | 0.54 | | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 120.2 | 0.08 | U | 0.39 | | |
| 1,3-Dichlorobenzene | 541-73-1 | 147 | 0.08 | U | 0.48 | | |
| 1,4-Dichlorobenzene | 106-46-7 | 147 | 0.05 | U | 0.3 | | |
| 1,2-Dichlorobenzene | 95-50-1 | 147 | 0.08 | U | 0.48 | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 181.5 | 0.09 | U | 0.67 | | |
| Hexachloro-1,3-Butadiene | 87-68-3 | 260.8 | 0.09 | U | 0.96 | | |
| Naphthalene | 91-20-3 | 128.17 | 0.08 | U | 0.42 | | |
| 1,3-Butadiene | 106-99-0 | 54.09 | 0.13 | U | 0.29 | | |
| 4-Ethyltoluene | 622-96-8 | 120.2 | 0.12 | U | 0.59 | | |
| Hexane | 110-54-3 | 86.17 | 1.9 | | 6.7 | | |
| Allyl Chloride | 107-05-1 | 76.53 | 0.15 | U | 0.47 | | |
| 1,4-Dioxane | 123-91-1 | 88.12 | 0.21 | U | 0.76 | | |
| Methyl Methacrylate | 80-62-6 | 100.117 | 0.09 | U | 0.37 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site

**Sampling Date :** 03/25/25

**Field Id Number :** IA-B10-4-3242025

**Analysis Date :** 04/11/25

**Laboratory Id Number :** Q1665-10

**Target Analyts :** Air Results

| Chemical | Cas Number | Molecular Weight | Insert Results in PPBV | Qualifier | Generate Results in ug/m3 | QAS Decision | Foot Notes |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 120.9 | 0.39 | J | 1.93 | | |
| Ethanol | 64-17-5 | 46.07 | 870 | E | 1639 | | |
| Chloromethane | 74-87-3 | 50.49 | 0.61 | | 1.26 | | |
| Vinyl Chloride | 75-01-4 | 62.5 | 0.01 | U | 0.03 | | |
| Bromomethane | 74-83-9 | 94.94 | 0.14 | U | 0.54 | | |
| Chloroethane | 75-00-3 | 64.52 | 0.17 | U | 0.45 | | |
| Tetrahydrofuran | 109-99-9 | 72.11 | 0.13 | U | 0.38 | | |
| Trichlorofluoromethane | 75-69-4 | 137.4 | 0.19 | J | 1.07 | | |
| Dichlorotetrafluoroethane | 76-14-2 | 170.9 | 0.09 | U | 0.63 | | |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1 | 187.4 | 0.16 | U | 1.23 | | |
| Bromoethene | 593-60-2 | 106.9 | 0.12 | U | 0.52 | | |
| tert-Butyl alcohol | 75-65-0 | 74.12 | 0.21 | J | 0.64 | | |
| Heptane | 142-82-5 | 100.2 | 0.14 | J | 0.57 | | |
| Isopropyl Alcohol | 67-63-0 | 60.1 | 210 | E | 516 | | |
| 1,1-Dichloroethene | 75-35-4 | 96.94 | 0.14 | U | 0.56 | | |
| Acetone | 67-64-1 | 58.08 | 76.7 | E | 182 | | |
| Carbon Disulfide | 75-15-0 | 76.14 | 0.16 | U | 0.5 | | |
| Methyl tert-Butyl Ether | 1634-04-4 | 88.15 | 0.12 | U | 0.43 | | |
| Methylene Chloride | 75-09-2 | 84.94 | 0.59 | | 2.05 | | |
| trans-1,2-Dichloroethene | 156-60-5 | 96.94 | 0.19 | U | 0.75 | | |
| 1,1-Dichloroethane | 75-34-3 | 98.96 | 0.13 | U | 0.53 | | |
| Cyclohexane | 110-82-7 | 84.16 | 0.22 | U | 0.76 | | |
| 2-Butanone | 78-93-3 | 72.11 | 160 | E | 471 | | |
| Carbon Tetrachloride | 56-23-5 | 153.8 | 0.08 | | 0.5 | | |
| cis-1,2-Dichloroethene | 156-59-2 | 96.94 | 0.09 | U | 0.36 | | |
| Chloroform | 67-66-3 | 119.4 | 0.58 | | 2.83 | | |
| 1,1,1-Trichloroethane | 71-55-6 | 133.4 | 0.01 | U | 0.05 | | |
| 2,2,4-Trimethylpentane | 540-84-1 | 114.2 | 0.1 | J | 0.47 | | |
| Benzene | 71-43-2 | 78.11 | 0.47 | J | 1.5 | | |
| 1,2-Dichloroethane | 107-06-2 | 98.96 | 0.09 | U | 0.36 | | |
| Trichloroethene | 79-01-6 | 131.4 | 0.02 | U | 0.11 | | |
| 1,2-Dichloropropane | 78-87-5 | 113 | 0.11 | U | 0.51 | | |
| Bromodichloromethane | 75-27-4 | 163.8 | 0.08 | U | 0.54 | | |
| 4-Methyl-2-Pentanone | 108-10-1 | 100.2 | 0.09 | U | 0.37 | | |
| Toluene | 108-88-3 | 92.14 | 0.42 | J | 1.58 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site **Sampling Date :** 03/25/25

**Field Id Number :** IA-B10-4-3242025 **Analysis Date :** 04/11/25

**Laboratory Id Number :** Q1665-10 **Target Analyts :** Air Results

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| t-1,3-Dichloropropene | 10061-02-6 | 111 | 0.06 | U | 0.27 | | |
| cis-1,3-Dichloropropene | 10061-01-5 | 111 | 0.06 | U | 0.27 | | |
| 1,1,2-Trichloroethane | 79-00-5 | 133.4 | 0.07 | U | 0.38 | | |
| Dibromochloromethane | 124-48-1 | 208.3 | 0.07 | U | 0.6 | | |
| 1,2-Dibromoethane | 106-93-4 | 187.9 | 0.07 | U | 0.54 | | |
| Tetrachloroethene | 127-18-4 | 165.8 | 0.02 | U | 0.14 | | |
| Chlorobenzene | 108-90-7 | 112.6 | 0.08 | U | 0.37 | | |
| Ethyl Benzene | 100-41-4 | 106.2 | 0.12 | U | 0.52 | | |
| m/p-Xylene | 179601-23-1 | 106.2 | 0.21 | U | 0.91 | | |
| o-Xylene | 95-47-6 | 106.2 | 0.12 | U | 0.52 | | |
| Styrene | 100-42-5 | 104.1 | 0.11 | U | 0.47 | | |
| Bromoform | 75-25-2 | 252.8 | 0.06 | U | 0.62 | | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 167.9 | 0.01 | U | 0.07 | | |
| 2-Chlorotoluene | 95-49-8 | 126.6 | 0.11 | U | 0.57 | | |
| 1,3,5-Trimethylbenzene | 108-67-8 | 120.2 | 0.11 | U | 0.54 | | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 120.2 | 0.11 | J | 0.54 | | |
| 1,3-Dichlorobenzene | 541-73-1 | 147 | 0.08 | U | 0.48 | | |
| 1,4-Dichlorobenzene | 106-46-7 | 147 | 0.05 | U | 0.3 | | |
| 1,2-Dichlorobenzene | 95-50-1 | 147 | 0.08 | U | 0.48 | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 181.5 | 0.09 | U | 0.67 | | |
| Hexachloro-1,3-Butadiene | 87-68-3 | 260.8 | 0.09 | U | 0.96 | | |
| Naphthalene | 91-20-3 | 128.17 | 0.08 | U | 0.42 | | |
| 1,3-Butadiene | 106-99-0 | 54.09 | 0.13 | U | 0.29 | | |
| 4-Ethyltoluene | 622-96-8 | 120.2 | 0.12 | U | 0.59 | | |
| Hexane | 110-54-3 | 86.17 | 2.2 | | 7.75 | | |
| Allyl Chloride | 107-05-1 | 76.53 | 0.15 | U | 0.47 | | |
| 1,4-Dioxane | 123-91-1 | 88.12 | 0.21 | U | 0.76 | | |
| Methyl Methacrylate | 80-62-6 | 100.117 | 0.09 | U | 0.37 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site

**Sampling Date :** 03/25/25

**Field Id Number :** IA-B10-4-3242025DL

**Analysis Date :** 04/11/25

**Laboratory Id Number :** Q1665-10DL

**Target Analyts :** Air Results

| Chemical | Cas Number | Molecular Weight | Insert Results in PPBV | Qualifier | Generate Results in ug/m3 | QAS Decision | Foot Notes |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 120.9 | 8.4 | UD | 41.5 | | |
| Ethanol | 64-17-5 | 46.07 | 1100 | ED | 2072 | | |
| Chloromethane | 74-87-3 | 50.49 | 3.9 | UD | 8.05 | | |
| Vinyl Chloride | 75-01-4 | 62.5 | 0.56 | UD | 1.43 | | |
| Bromomethane | 74-83-9 | 94.94 | 5.6 | UD | 21.7 | | |
| Chloroethane | 75-00-3 | 64.52 | 6.8 | UD | 17.9 | | |
| Tetrahydrofuran | 109-99-9 | 72.11 | 5.2 | UD | 15.3 | | |
| Trichlorofluoromethane | 75-69-4 | 137.4 | 6.4 | UD | 36.0 | | |
| Dichlorotetrafluoroethane | 76-14-2 | 170.9 | 3.5 | UD | 24.5 | | |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1 | 187.4 | 6.4 | UD | 49.0 | | |
| Bromoethene | 593-60-2 | 106.9 | 4.8 | UD | 21.0 | | |
| tert-Butyl alcohol | 75-65-0 | 74.12 | 7.6 | UD | 23.0 | | |
| Heptane | 142-82-5 | 100.2 | 4.4 | UD | 18.0 | | |
| Isopropyl Alcohol | 67-63-0 | 60.1 | 610 | ED | 1499 | | |
| 1,1-Dichloroethene | 75-35-4 | 96.94 | 5.6 | UD | 22.2 | | |
| Acetone | 67-64-1 | 58.08 | 140 | D | 332 | | |
| Carbon Disulfide | 75-15-0 | 76.14 | 6.4 | UD | 19.9 | | |
| Methyl tert-Butyl Ether | 1634-04-4 | 88.15 | 4.8 | UD | 17.3 | | |
| Methylene Chloride | 75-09-2 | 84.94 | 7.6 | UD | 26.4 | | |
| trans-1,2-Dichloroethene | 156-60-5 | 96.94 | 7.6 | UD | 30.1 | | |
| 1,1-Dichloroethane | 75-34-3 | 98.96 | 5.2 | UD | 21.0 | | |
| Cyclohexane | 110-82-7 | 84.16 | 8.8 | UD | 30.3 | | |
| 2-Butanone | 78-93-3 | 72.11 | 700 | ED | 2064 | | |
| Carbon Tetrachloride | 56-23-5 | 153.8 | 0.44 | UD | 2.77 | | |
| cis-1,2-Dichloroethene | 156-59-2 | 96.94 | 3.6 | UD | 14.3 | | |
| Chloroform | 67-66-3 | 119.4 | 3.3 | UD | 16.1 | | |
| 1,1,1-Trichloroethane | 71-55-6 | 133.4 | 0.38 | UD | 2.07 | | |
| 2,2,4-Trimethylpentane | 540-84-1 | 114.2 | 4 | UD | 18.7 | | |
| Benzene | 71-43-2 | 78.11 | 3.5 | UD | 11.2 | | |
| 1,2-Dichloroethane | 107-06-2 | 98.96 | 3.6 | UD | 14.6 | | |
| Trichloroethene | 79-01-6 | 131.4 | 0.68 | UD | 3.65 | | |
| 1,2-Dichloropropane | 78-87-5 | 113 | 4.4 | UD | 20.3 | | |
| Bromodichloromethane | 75-27-4 | 163.8 | 3.1 | UD | 20.8 | | |
| 4-Methyl-2-Pentanone | 108-10-1 | 100.2 | 3.7 | UD | 15.2 | | |
| Toluene | 108-88-3 | 92.14 | 4.4 | UD | 16.6 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site **Sampling Date :** 03/25/25

**Field Id Number :** IA-B10-4-3242025DL **Analysis Date :** 04/11/25

**Laboratory Id Number :** Q1665-10DL **Target Analyts :** Air Results

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| t-1,3-Dichloropropene | 10061-02-6 | 111 | 2.4 | UD | 10.9 | | |
| cis-1,3-Dichloropropene | 10061-01-5 | 111 | 2.6 | UD | 11.8 | | |
| 1,1,2-Trichloroethane | 79-00-5 | 133.4 | 2.8 | UD | 15.3 | | |
| Dibromochloromethane | 124-48-1 | 208.3 | 2.6 | UD | 22.2 | | |
| 1,2-Dibromoethane | 106-93-4 | 187.9 | 2.9 | UD | 22.3 | | |
| Tetrachloroethene | 127-18-4 | 165.8 | 0.6 | UD | 4.07 | | |
| Chlorobenzene | 108-90-7 | 112.6 | 3 | UD | 13.8 | | |
| Ethyl Benzene | 100-41-4 | 106.2 | 4.8 | UD | 20.8 | | |
| m/p-Xylene | 179601-23-1 | 106.2 | 8.4 | UD | 36.5 | | |
| o-Xylene | 95-47-6 | 106.2 | 4.8 | UD | 20.8 | | |
| Styrene | 100-42-5 | 104.1 | 4.4 | UD | 18.7 | | |
| Bromoform | 75-25-2 | 252.8 | 2.3 | UD | 23.8 | | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 167.9 | 0.44 | UD | 3.02 | | |
| 2-Chlorotoluene | 95-49-8 | 126.6 | 4.4 | UD | 22.8 | | |
| 1,3,5-Trimethylbenzene | 108-67-8 | 120.2 | 4.4 | UD | 21.6 | | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 120.2 | 3.1 | UD | 15.2 | | |
| 1,3-Dichlorobenzene | 541-73-1 | 147 | 3.2 | UD | 19.2 | | |
| 1,4-Dichlorobenzene | 106-46-7 | 147 | 2.1 | UD | 12.6 | | |
| 1,2-Dichlorobenzene | 95-50-1 | 147 | 3 | UD | 18.0 | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 181.5 | 3.4 | UD | 25.2 | | |
| Hexachloro-1,3-Butadiene | 87-68-3 | 260.8 | 3.4 | UD | 36.3 | | |
| Naphthalene | 91-20-3 | 128.17 | 3 | UD | 15.7 | | |
| 1,3-Butadiene | 106-99-0 | 54.09 | 5.2 | UD | 11.5 | | |
| 4-Ethyltoluene | 622-96-8 | 120.2 | 4.8 | UD | 23.6 | | |
| Hexane | 110-54-3 | 86.17 | 4.4 | UD | 15.5 | | |
| Allyl Chloride | 107-05-1 | 76.53 | 6 | UD | 18.8 | | |
| 1,4-Dioxane | 123-91-1 | 88.12 | 8.4 | UD | 30.3 | | |
| Methyl Methacrylate | 80-62-6 | 100.117 | 3.4 | UD | 13.9 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site

**Sampling Date :** 03/25/25

**Field Id Number :** IA-B10-4-3242025DL2

**Analysis Date :** 04/15/25

**Laboratory Id Number :** Q1665-10DL2

**Target Analyts :** Air Results

| Chemical | Cas Number | Molecular Weight | Insert Results in PPBV | Qualifier | Generate Results in ug/m3 | QAS Decision | Foot Notes |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 120.9 | 21 | UD | 103 | | |
| Ethanol | 64-17-5 | 46.07 | 790 | D | 1488 | | |
| Chloromethane | 74-87-3 | 50.49 | 9.8 | UD | 20.2 | | |
| Vinyl Chloride | 75-01-4 | 62.5 | 1.4 | UD | 3.58 | | |
| Bromomethane | 74-83-9 | 94.94 | 14 | UD | 54.4 | | |
| Chloroethane | 75-00-3 | 64.52 | 17 | UD | 44.9 | | |
| Tetrahydrofuran | 109-99-9 | 72.11 | 13 | UD | 38.3 | | |
| Trichlorofluoromethane | 75-69-4 | 137.4 | 16 | UD | 89.9 | | |
| Dichlorotetrafluoroethane | 76-14-2 | 170.9 | 8.8 | UD | 61.5 | | |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1 | 187.4 | 16 | UD | 122 | | |
| Bromoethene | 593-60-2 | 106.9 | 12 | UD | 52.5 | | |
| tert-Butyl alcohol | 75-65-0 | 74.12 | 19 | UD | 57.6 | | |
| Heptane | 142-82-5 | 100.2 | 11 | UD | 45.1 | | |
| Isopropyl Alcohol | 67-63-0 | 60.1 | 430 | D | 1056 | | |
| 1,1-Dichloroethene | 75-35-4 | 96.94 | 14 | UD | 55.5 | | |
| Acetone | 67-64-1 | 58.08 | 120 | D | 285 | | |
| Carbon Disulfide | 75-15-0 | 76.14 | 16 | UD | 49.8 | | |
| Methyl tert-Butyl Ether | 1634-04-4 | 88.15 | 12 | UD | 43.3 | | |
| Methylene Chloride | 75-09-2 | 84.94 | 19 | UD | 66.0 | | |
| trans-1,2-Dichloroethene | 156-60-5 | 96.94 | 19 | UD | 75.3 | | |
| 1,1-Dichloroethane | 75-34-3 | 98.96 | 13 | UD | 52.6 | | |
| Cyclohexane | 110-82-7 | 84.16 | 22 | UD | 75.7 | | |
| 2-Butanone | 78-93-3 | 72.11 | 480 | D | 1415 | | |
| Carbon Tetrachloride | 56-23-5 | 153.8 | 1.1 | UD | 6.92 | | |
| cis-1,2-Dichloroethene | 156-59-2 | 96.94 | 8.9 | UD | 35.3 | | |
| Chloroform | 67-66-3 | 119.4 | 8.3 | UD | 40.5 | | |
| 1,1,1-Trichloroethane | 71-55-6 | 133.4 | 0.95 | UD | 5.18 | | |
| 2,2,4-Trimethylpentane | 540-84-1 | 114.2 | 10 | UD | 46.7 | | |
| Benzene | 71-43-2 | 78.11 | 8.7 | UD | 27.8 | | |
| 1,2-Dichloroethane | 107-06-2 | 98.96 | 9.1 | UD | 36.8 | | |
| Trichloroethene | 79-01-6 | 131.4 | 1.7 | UD | 9.14 | | |
| 1,2-Dichloropropane | 78-87-5 | 113 | 11 | UD | 50.8 | | |
| Bromodichloromethane | 75-27-4 | 163.8 | 7.7 | UD | 51.6 | | |
| 4-Methyl-2-Pentanone | 108-10-1 | 100.2 | 9.3 | UD | 38.1 | | |
| Toluene | 108-88-3 | 92.14 | 11 | UD | 41.4 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site **Sampling Date :** 03/25/25

**Field Id Number :** IA-B10-4-3242025DL2 **Analysis Date :** 04/15/25

**Laboratory Id Number :** Q1665-10DL2 **Target Analyts :** Air Results

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| t-1,3-Dichloropropene | 10061-02-6 | 111 | 6 | UD | 27.2 | | |
| cis-1,3-Dichloropropene | 10061-01-5 | 111 | 6.4 | UD | 29.1 | | |
| 1,1,2-Trichloroethane | 79-00-5 | 133.4 | 7.1 | UD | 38.7 | | |
| Dibromochloromethane | 124-48-1 | 208.3 | 6.6 | UD | 56.2 | | |
| 1,2-Dibromoethane | 106-93-4 | 187.9 | 7.2 | UD | 55.3 | | |
| Tetrachloroethene | 127-18-4 | 165.8 | 1.5 | UD | 10.2 | | |
| Chlorobenzene | 108-90-7 | 112.6 | 7.6 | UD | 35 | | |
| Ethyl Benzene | 100-41-4 | 106.2 | 12 | UD | 52.1 | | |
| m/p-Xylene | 179601-23-1 | 106.2 | 21 | UD | 91.2 | | |
| o-Xylene | 95-47-6 | 106.2 | 12 | UD | 52.1 | | |
| Styrene | 100-42-5 | 104.1 | 11 | UD | 46.8 | | |
| Bromoform | 75-25-2 | 252.8 | 5.7 | UD | 58.9 | | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 167.9 | 1.1 | UD | 7.55 | | |
| 2-Chlorotoluene | 95-49-8 | 126.6 | 11 | UD | 57.0 | | |
| 1,3,5-Trimethylbenzene | 108-67-8 | 120.2 | 11 | UD | 54.1 | | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 120.2 | 7.8 | UD | 38.4 | | |
| 1,3-Dichlorobenzene | 541-73-1 | 147 | 8 | UD | 48.1 | | |
| 1,4-Dichlorobenzene | 106-46-7 | 147 | 5.3 | UD | 31.9 | | |
| 1,2-Dichlorobenzene | 95-50-1 | 147 | 7.5 | UD | 45.1 | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 181.5 | 8.5 | UD | 63.1 | | |
| Hexachloro-1,3-Butadiene | 87-68-3 | 260.8 | 8.5 | UD | 90.7 | | |
| Naphthalene | 91-20-3 | 128.17 | 7.5 | UD | 39.3 | | |
| 1,3-Butadiene | 106-99-0 | 54.09 | 13 | UD | 28.8 | | |
| 4-Ethyltoluene | 622-96-8 | 120.2 | 12 | UD | 59.0 | | |
| Hexane | 110-54-3 | 86.17 | 11 | UD | 38.8 | | |
| Allyl Chloride | 107-05-1 | 76.53 | 15 | UD | 47.0 | | |
| 1,4-Dioxane | 123-91-1 | 88.12 | 21 | UD | 75.7 | | |
| Methyl Methacrylate | 80-62-6 | 100.117 | 8.6 | UD | 35.2 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site

**Sampling Date :** 03/25/25

**Field Id Number :** IA-B10-1-3242025

**Analysis Date :** 04/11/25

**Laboratory Id Number :** Q1665-11

**Target Analyts :** Air Results

| Chemical | Cas Number | Molecular Weight | Insert Results in PPBV | Qualifier | Generate Results in ug/m3 | QAS Decision | Foot Notes |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 120.9 | 0.43 | J | 2.13 | | |
| Ethanol | 64-17-5 | 46.07 | 1100 | E | 2072 | | |
| Chloromethane | 74-87-3 | 50.49 | 0.59 | | 1.22 | | |
| Vinyl Chloride | 75-01-4 | 62.5 | 0.01 | U | 0.03 | | |
| Bromomethane | 74-83-9 | 94.94 | 0.14 | U | 0.54 | | |
| Chloroethane | 75-00-3 | 64.52 | 0.17 | U | 0.45 | | |
| Tetrahydrofuran | 109-99-9 | 72.11 | 0.13 | U | 0.38 | | |
| Trichlorofluoromethane | 75-69-4 | 137.4 | 0.22 | J | 1.24 | | |
| Dichlorotetrafluoroethane | 76-14-2 | 170.9 | 0.09 | U | 0.63 | | |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1 | 187.4 | 0.16 | U | 1.23 | | |
| Bromoethene | 593-60-2 | 106.9 | 0.12 | U | 0.52 | | |
| tert-Butyl alcohol | 75-65-0 | 74.12 | 0.42 | J | 1.27 | | |
| Heptane | 142-82-5 | 100.2 | 0.11 | U | 0.45 | | |
| Isopropyl Alcohol | 67-63-0 | 60.1 | 51.2 | E | 125 | | |
| 1,1-Dichloroethene | 75-35-4 | 96.94 | 0.14 | U | 0.56 | | |
| Acetone | 67-64-1 | 58.08 | 78.5 | E | 186 | | |
| Carbon Disulfide | 75-15-0 | 76.14 | 0.16 | U | 0.5 | | |
| Methyl tert-Butyl Ether | 1634-04-4 | 88.15 | 0.12 | U | 0.43 | | |
| Methylene Chloride | 75-09-2 | 84.94 | 14.8 | | 51.4 | | |
| trans-1,2-Dichloroethene | 156-60-5 | 96.94 | 0.19 | U | 0.75 | | |
| 1,1-Dichloroethane | 75-34-3 | 98.96 | 0.13 | U | 0.53 | | |
| Cyclohexane | 110-82-7 | 84.16 | 0.22 | U | 0.76 | | |
| 2-Butanone | 78-93-3 | 72.11 | 12.3 | | 36.3 | | |
| Carbon Tetrachloride | 56-23-5 | 153.8 | 0.08 | | 0.5 | | |
| cis-1,2-Dichloroethene | 156-59-2 | 96.94 | 0.09 | U | 0.36 | | |
| Chloroform | 67-66-3 | 119.4 | 1.1 | | 5.37 | | |
| 1,1,1-Trichloroethane | 71-55-6 | 133.4 | 0.01 | U | 0.05 | | |
| 2,2,4-Trimethylpentane | 540-84-1 | 114.2 | 0.1 | U | 0.47 | | |
| Benzene | 71-43-2 | 78.11 | 0.46 | J | 1.47 | | |
| 1,2-Dichloroethane | 107-06-2 | 98.96 | 0.09 | U | 0.36 | | |
| Trichloroethene | 79-01-6 | 131.4 | 0.02 | U | 0.11 | | |
| 1,2-Dichloropropane | 78-87-5 | 113 | 0.11 | U | 0.51 | | |
| Bromodichloromethane | 75-27-4 | 163.8 | 0.08 | U | 0.54 | | |
| 4-Methyl-2-Pentanone | 108-10-1 | 100.2 | 0.16 | J | 0.66 | | |
| Toluene | 108-88-3 | 92.14 | 0.4 | J | 1.51 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site **Sampling Date :** 03/25/25

**Field Id Number :** IA-B10-1-3242025 **Analysis Date :** 04/11/25

**Laboratory Id Number :** Q1665-11 **Target Analyts :** Air Results

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| t-1,3-Dichloropropene | 10061-02-6 | 111 | 0.06 | U | 0.27 | | |
| cis-1,3-Dichloropropene | 10061-01-5 | 111 | 0.06 | U | 0.27 | | |
| 1,1,2-Trichloroethane | 79-00-5 | 133.4 | 0.07 | U | 0.38 | | |
| Dibromochloromethane | 124-48-1 | 208.3 | 0.07 | U | 0.6 | | |
| 1,2-Dibromoethane | 106-93-4 | 187.9 | 0.07 | U | 0.54 | | |
| Tetrachloroethene | 127-18-4 | 165.8 | 0.02 | U | 0.14 | | |
| Chlorobenzene | 108-90-7 | 112.6 | 0.08 | U | 0.37 | | |
| Ethyl Benzene | 100-41-4 | 106.2 | 0.12 | U | 0.52 | | |
| m/p-Xylene | 179601-23-1 | 106.2 | 0.22 | J | 0.96 | | |
| o-Xylene | 95-47-6 | 106.2 | 0.15 | J | 0.65 | | |
| Styrene | 100-42-5 | 104.1 | 0.11 | U | 0.47 | | |
| Bromoform | 75-25-2 | 252.8 | 0.06 | U | 0.62 | | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 167.9 | 0.01 | U | 0.07 | | |
| 2-Chlorotoluene | 95-49-8 | 126.6 | 0.11 | U | 0.57 | | |
| 1,3,5-Trimethylbenzene | 108-67-8 | 120.2 | 0.16 | J | 0.79 | | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 120.2 | 0.57 | | 2.8 | | |
| 1,3-Dichlorobenzene | 541-73-1 | 147 | 0.08 | U | 0.48 | | |
| 1,4-Dichlorobenzene | 106-46-7 | 147 | 0.05 | U | 0.3 | | |
| 1,2-Dichlorobenzene | 95-50-1 | 147 | 0.08 | U | 0.48 | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 181.5 | 0.09 | U | 0.67 | | |
| Hexachloro-1,3-Butadiene | 87-68-3 | 260.8 | 0.09 | U | 0.96 | | |
| Naphthalene | 91-20-3 | 128.17 | 0.08 | U | 0.42 | | |
| 1,3-Butadiene | 106-99-0 | 54.09 | 0.13 | U | 0.29 | | |
| 4-Ethyltoluene | 622-96-8 | 120.2 | 0.12 | U | 0.59 | | |
| Hexane | 110-54-3 | 86.17 | 8.1 | | 28.6 | | |
| Allyl Chloride | 107-05-1 | 76.53 | 0.15 | U | 0.47 | | |
| 1,4-Dioxane | 123-91-1 | 88.12 | 0.21 | U | 0.76 | | |
| Methyl Methacrylate | 80-62-6 | 100.117 | 0.09 | U | 0.37 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site

**Sampling Date :** 03/25/25

**Field Id Number :** IA-B10-1-3242025DL

**Analysis Date :** 04/11/25

**Laboratory Id Number :** Q1665-11DL

**Target Analyts :** Air Results

| Chemical | Cas Number | Molecular Weight | Insert Results in PPBV | Qualifier | Generate Results in ug/m3 | QAS Decision | Foot Notes |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 120.9 | 2.1 | UD | 10.4 | | |
| Ethanol | 64-17-5 | 46.07 | 1300 | ED | 2449 | | |
| Chloromethane | 74-87-3 | 50.49 | 0.98 | UD | 2.02 | | |
| Vinyl Chloride | 75-01-4 | 62.5 | 0.14 | UD | 0.36 | | |
| Bromomethane | 74-83-9 | 94.94 | 1.4 | UD | 5.44 | | |
| Chloroethane | 75-00-3 | 64.52 | 1.7 | UD | 4.49 | | |
| Tetrahydrofuran | 109-99-9 | 72.11 | 1.3 | UD | 3.83 | | |
| Trichlorofluoromethane | 75-69-4 | 137.4 | 1.6 | UD | 8.99 | | |
| Dichlorotetrafluoroethane | 76-14-2 | 170.9 | 0.88 | UD | 6.15 | | |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1 | 187.4 | 1.6 | UD | 12.3 | | |
| Bromoethene | 593-60-2 | 106.9 | 1.2 | UD | 5.25 | | |
| tert-Butyl alcohol | 75-65-0 | 74.12 | 1.9 | UD | 5.76 | | |
| Heptane | 142-82-5 | 100.2 | 1.1 | UD | 4.51 | | |
| Isopropyl Alcohol | 67-63-0 | 60.1 | 48.3 | D | 118 | | |
| 1,1-Dichloroethene | 75-35-4 | 96.94 | 1.4 | UD | 5.55 | | |
| Acetone | 67-64-1 | 58.08 | 130 | D | 308 | | |
| Carbon Disulfide | 75-15-0 | 76.14 | 1.6 | UD | 4.98 | | |
| Methyl tert-Butyl Ether | 1634-04-4 | 88.15 | 1.2 | UD | 4.33 | | |
| Methylene Chloride | 75-09-2 | 84.94 | 16.4 | D | 57.0 | | |
| trans-1,2-Dichloroethene | 156-60-5 | 96.94 | 1.9 | UD | 7.53 | | |
| 1,1-Dichloroethane | 75-34-3 | 98.96 | 1.3 | UD | 5.26 | | |
| Cyclohexane | 110-82-7 | 84.16 | 2.2 | UD | 7.57 | | |
| 2-Butanone | 78-93-3 | 72.11 | 10 | D | 29.5 | | |
| Carbon Tetrachloride | 56-23-5 | 153.8 | 0.11 | UD | 0.69 | | |
| cis-1,2-Dichloroethene | 156-59-2 | 96.94 | 0.89 | UD | 3.53 | | |
| Chloroform | 67-66-3 | 119.4 | 1 | JD | 4.88 | | |
| 1,1,1-Trichloroethane | 71-55-6 | 133.4 | 0.1 | UD | 0.55 | | |
| 2,2,4-Trimethylpentane | 540-84-1 | 114.2 | 1 | UD | 4.67 | | |
| Benzene | 71-43-2 | 78.11 | 0.87 | UD | 2.78 | | |
| 1,2-Dichloroethane | 107-06-2 | 98.96 | 0.91 | UD | 3.68 | | |
| Trichloroethene | 79-01-6 | 131.4 | 0.17 | UD | 0.91 | | |
| 1,2-Dichloropropane | 78-87-5 | 113 | 1.1 | UD | 5.08 | | |
| Bromodichloromethane | 75-27-4 | 163.8 | 0.77 | UD | 5.16 | | |
| 4-Methyl-2-Pentanone | 108-10-1 | 100.2 | 0.93 | UD | 3.81 | | |
| Toluene | 108-88-3 | 92.14 | 1.1 | UD | 4.15 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site **Sampling Date :** 03/25/25

**Field Id Number :** IA-B10-1-3242025DL **Analysis Date :** 04/11/25

**Laboratory Id Number :** Q1665-11DL **Target Analyts :** Air Results

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| t-1,3-Dichloropropene | 10061-02-6 | 111 | 0.6 | UD | 2.72 | | |
| cis-1,3-Dichloropropene | 10061-01-5 | 111 | 0.64 | UD | 2.91 | | |
| 1,1,2-Trichloroethane | 79-00-5 | 133.4 | 0.71 | UD | 3.87 | | |
| Dibromochloromethane | 124-48-1 | 208.3 | 0.66 | UD | 5.62 | | |
| 1,2-Dibromoethane | 106-93-4 | 187.9 | 0.72 | UD | 5.53 | | |
| Tetrachloroethene | 127-18-4 | 165.8 | 0.15 | UD | 1.02 | | |
| Chlorobenzene | 108-90-7 | 112.6 | 0.76 | UD | 3.5 | | |
| Ethyl Benzene | 100-41-4 | 106.2 | 1.2 | UD | 5.21 | | |
| m/p-Xylene | 179601-23-1 | 106.2 | 2.1 | UD | 9.12 | | |
| o-Xylene | 95-47-6 | 106.2 | 1.2 | UD | 5.21 | | |
| Styrene | 100-42-5 | 104.1 | 1.1 | UD | 4.68 | | |
| Bromoform | 75-25-2 | 252.8 | 0.57 | UD | 5.89 | | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 167.9 | 0.11 | UD | 0.76 | | |
| 2-Chlorotoluene | 95-49-8 | 126.6 | 1.1 | UD | 5.7 | | |
| 1,3,5-Trimethylbenzene | 108-67-8 | 120.2 | 1.1 | UD | 5.41 | | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 120.2 | 0.78 | UD | 3.83 | | |
| 1,3-Dichlorobenzene | 541-73-1 | 147 | 0.8 | UD | 4.81 | | |
| 1,4-Dichlorobenzene | 106-46-7 | 147 | 0.53 | UD | 3.19 | | |
| 1,2-Dichlorobenzene | 95-50-1 | 147 | 0.75 | UD | 4.51 | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 181.5 | 0.85 | UD | 6.31 | | |
| Hexachloro-1,3-Butadiene | 87-68-3 | 260.8 | 0.85 | UD | 9.07 | | |
| Naphthalene | 91-20-3 | 128.17 | 0.75 | UD | 3.93 | | |
| 1,3-Butadiene | 106-99-0 | 54.09 | 1.3 | UD | 2.88 | | |
| 4-Ethyltoluene | 622-96-8 | 120.2 | 1.2 | UD | 5.9 | | |
| Hexane | 110-54-3 | 86.17 | 4.4 | JD | 15.5 | | |
| Allyl Chloride | 107-05-1 | 76.53 | 1.5 | UD | 4.7 | | |
| 1,4-Dioxane | 123-91-1 | 88.12 | 2.1 | UD | 7.57 | | |
| Methyl Methacrylate | 80-62-6 | 100.117 | 0.86 | UD | 3.52 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site

**Sampling Date :** 03/25/25

**Field Id Number :** IA-B2-6-3242025

**Analysis Date :** 04/28/25

**Laboratory Id Number :** Q1665-12

**Target Analyts :** Air Results

| Chemical | Cas Number | Molecular Weight | Insert Results in PPBV | Qualifier | Generate Results in ug/m3 | QAS Decision | Foot Notes |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 120.9 | 0.46 | J | 2.27 | | |
| Ethanol | 64-17-5 | 46.07 | 72.5 | E | 136 | | |
| Chloromethane | 74-87-3 | 50.49 | 0.55 | | 1.14 | | |
| Vinyl Chloride | 75-01-4 | 62.5 | 0.01 | U | 0.03 | | |
| Bromomethane | 74-83-9 | 94.94 | 0.14 | U | 0.54 | | |
| Chloroethane | 75-00-3 | 64.52 | 0.17 | U | 0.45 | | |
| Tetrahydrofuran | 109-99-9 | 72.11 | 0.13 | U | 0.38 | | |
| Trichlorofluoromethane | 75-69-4 | 137.4 | 0.23 | J | 1.29 | | |
| Dichlorotetrafluoroethane | 76-14-2 | 170.9 | 0.09 | U | 0.63 | | |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1 | 187.4 | 0.16 | U | 1.23 | | |
| Bromoethene | 593-60-2 | 106.9 | 0.12 | U | 0.52 | | |
| tert-Butyl alcohol | 75-65-0 | 74.12 | 1.9 | | 5.76 | | |
| Heptane | 142-82-5 | 100.2 | 0.35 | J | 1.43 | | |
| Isopropyl Alcohol | 67-63-0 | 60.1 | 61.7 | E | 151 | | |
| 1,1-Dichloroethene | 75-35-4 | 96.94 | 0.14 | U | 0.56 | | |
| Acetone | 67-64-1 | 58.08 | 0.24 | U | 0.57 | | |
| Carbon Disulfide | 75-15-0 | 76.14 | 0.16 | U | 0.5 | | |
| Methyl tert-Butyl Ether | 1634-04-4 | 88.15 | 0.12 | U | 0.43 | | |
| Methylene Chloride | 75-09-2 | 84.94 | 4.4 | | 15.3 | | |
| trans-1,2-Dichloroethene | 156-60-5 | 96.94 | 0.19 | U | 0.75 | | |
| 1,1-Dichloroethane | 75-34-3 | 98.96 | 0.13 | U | 0.53 | | |
| Cyclohexane | 110-82-7 | 84.16 | 0.22 | U | 0.76 | | |
| 2-Butanone | 78-93-3 | 72.11 | 0.79 | | 2.33 | | |
| Carbon Tetrachloride | 56-23-5 | 153.8 | 0.07 | | 0.44 | | |
| cis-1,2-Dichloroethene | 156-59-2 | 96.94 | 0.09 | U | 0.36 | | |
| Chloroform | 67-66-3 | 119.4 | 0.08 | U | 0.39 | | |
| 1,1,1-Trichloroethane | 71-55-6 | 133.4 | 0.01 | U | 0.05 | | |
| 2,2,4-Trimethylpentane | 540-84-1 | 114.2 | 0.21 | J | 0.98 | | |
| Benzene | 71-43-2 | 78.11 | 0.37 | J | 1.18 | | |
| 1,2-Dichloroethane | 107-06-2 | 98.96 | 0.09 | U | 0.36 | | |
| Trichloroethene | 79-01-6 | 131.4 | 0.02 | U | 0.11 | | |
| 1,2-Dichloropropane | 78-87-5 | 113 | 0.11 | U | 0.51 | | |
| Bromodichloromethane | 75-27-4 | 163.8 | 0.08 | U | 0.54 | | |
| 4-Methyl-2-Pentanone | 108-10-1 | 100.2 | 1 | | 4.1 | | |
| Toluene | 108-88-3 | 92.14 | 1.4 | | 5.28 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site **Sampling Date :** 03/25/25

**Field Id Number :** IA-B2-6-3242025 **Analysis Date :** 04/28/25

**Laboratory Id Number :** Q1665-12 **Target Analyts :** Air Results

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| t-1,3-Dichloropropene | 10061-02-6 | 111 | 0.06 | U | 0.27 | | |
| cis-1,3-Dichloropropene | 10061-01-5 | 111 | 0.06 | U | 0.27 | | |
| 1,1,2-Trichloroethane | 79-00-5 | 133.4 | 0.07 | U | 0.38 | | |
| Dibromochloromethane | 124-48-1 | 208.3 | 0.07 | U | 0.6 | | |
| 1,2-Dibromoethane | 106-93-4 | 187.9 | 0.07 | U | 0.54 | | |
| Tetrachloroethene | 127-18-4 | 165.8 | 0.02 | U | 0.14 | | |
| Chlorobenzene | 108-90-7 | 112.6 | 0.08 | U | 0.37 | | |
| Ethyl Benzene | 100-41-4 | 106.2 | 0.5 | | 2.17 | | |
| m/p-Xylene | 179601-23-1 | 106.2 | 0.82 | J | 3.56 | | |
| o-Xylene | 95-47-6 | 106.2 | 0.34 | J | 1.48 | | |
| Styrene | 100-42-5 | 104.1 | 0.45 | J | 1.92 | | |
| Bromoform | 75-25-2 | 252.8 | 0.06 | U | 0.62 | | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 167.9 | 0.01 | U | 0.07 | | |
| 2-Chlorotoluene | 95-49-8 | 126.6 | 0.11 | U | 0.57 | | |
| 1,3,5-Trimethylbenzene | 108-67-8 | 120.2 | 0.2 | J | 0.98 | | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 120.2 | 0.66 | | 3.24 | | |
| 1,3-Dichlorobenzene | 541-73-1 | 147 | 0.08 | U | 0.48 | | |
| 1,4-Dichlorobenzene | 106-46-7 | 147 | 0.05 | U | 0.3 | | |
| 1,2-Dichlorobenzene | 95-50-1 | 147 | 0.08 | U | 0.48 | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 181.5 | 0.09 | U | 0.67 | | |
| Hexachloro-1,3-Butadiene | 87-68-3 | 260.8 | 0.09 | U | 0.96 | | |
| Naphthalene | 91-20-3 | 128.17 | 0.08 | U | 0.42 | | |
| 1,3-Butadiene | 106-99-0 | 54.09 | 0.13 | U | 0.29 | | |
| 4-Ethyltoluene | 622-96-8 | 120.2 | 0.16 | J | 0.79 | | |
| Hexane | 110-54-3 | 86.17 | 4.9 | | 17.3 | | |
| Allyl Chloride | 107-05-1 | 76.53 | 0.15 | U | 0.47 | | |
| 1,4-Dioxane | 123-91-1 | 88.12 | 0.21 | U | 0.76 | | |
| Methyl Methacrylate | 80-62-6 | 100.117 | 0.09 | U | 0.37 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site

**Sampling Date :** 03/25/25

**Field Id Number :** IA-B14-1-3242025

**Analysis Date :** 04/17/25

**Laboratory Id Number :** Q1665-15

**Target Analyts :** Air Results

| Chemical | Cas Number | Molecular Weight | Insert Results in PPBV | Qualifier | Generate Results in ug/m3 | QAS Decision | Foot Notes |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 120.9 | 0.43 | J | 2.13 | | |
| Ethanol | 64-17-5 | 46.07 | 17.3 | E | 32.6 | | |
| Chloromethane | 74-87-3 | 50.49 | 0.66 | | 1.36 | | |
| Vinyl Chloride | 75-01-4 | 62.5 | 0.01 | U | 0.03 | | |
| Bromomethane | 74-83-9 | 94.94 | 0.14 | U | 0.54 | | |
| Chloroethane | 75-00-3 | 64.52 | 0.17 | U | 0.45 | | |
| Tetrahydrofuran | 109-99-9 | 72.11 | 0.13 | U | 0.38 | | |
| Trichlorofluoromethane | 75-69-4 | 137.4 | 0.21 | J | 1.18 | | |
| Dichlorotetrafluoroethane | 76-14-2 | 170.9 | 0.09 | U | 0.63 | | |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1 | 187.4 | 0.16 | U | 1.23 | | |
| Bromoethene | 593-60-2 | 106.9 | 0.12 | U | 0.52 | | |
| tert-Butyl alcohol | 75-65-0 | 74.12 | 0.19 | U | 0.58 | | |
| Heptane | 142-82-5 | 100.2 | 0.15 | J | 0.61 | | |
| Isopropyl Alcohol | 67-63-0 | 60.1 | 130 | E | 319 | | |
| 1,1-Dichloroethene | 75-35-4 | 96.94 | 0.14 | U | 0.56 | | |
| Acetone | 67-64-1 | 58.08 | 38.4 | E | 91.2 | | |
| Carbon Disulfide | 75-15-0 | 76.14 | 0.16 | U | 0.5 | | |
| Methyl tert-Butyl Ether | 1634-04-4 | 88.15 | 0.12 | U | 0.43 | | |
| Methylene Chloride | 75-09-2 | 84.94 | 1.2 | | 4.17 | | |
| trans-1,2-Dichloroethene | 156-60-5 | 96.94 | 0.19 | U | 0.75 | | |
| 1,1-Dichloroethane | 75-34-3 | 98.96 | 0.13 | U | 0.53 | | |
| Cyclohexane | 110-82-7 | 84.16 | 0.22 | U | 0.76 | | |
| 2-Butanone | 78-93-3 | 72.11 | 0.74 | | 2.18 | | |
| Carbon Tetrachloride | 56-23-5 | 153.8 | 0.08 | | 0.5 | | |
| cis-1,2-Dichloroethene | 156-59-2 | 96.94 | 0.09 | U | 0.36 | | |
| Chloroform | 67-66-3 | 119.4 | 0.21 | J | 1.03 | | |
| 1,1,1-Trichloroethane | 71-55-6 | 133.4 | 0.04 | | 0.22 | | |
| 2,2,4-Trimethylpentane | 540-84-1 | 114.2 | 0.18 | J | 0.84 | | |
| Benzene | 71-43-2 | 78.11 | 0.24 | J | 0.77 | | |
| 1,2-Dichloroethane | 107-06-2 | 98.96 | 0.09 | U | 0.36 | | |
| Trichloroethene | 79-01-6 | 131.4 | 0.02 | U | 0.11 | | |
| 1,2-Dichloropropane | 78-87-5 | 113 | 0.11 | U | 0.51 | | |
| Bromodichloromethane | 75-27-4 | 163.8 | 0.08 | U | 0.54 | | |
| 4-Methyl-2-Pentanone | 108-10-1 | 100.2 | 0.14 | J | 0.57 | | |
| Toluene | 108-88-3 | 92.14 | 0.88 | | 3.32 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site **Sampling Date :** 03/25/25

**Field Id Number :** IA-B14-1-3242025 **Analysis Date :** 04/17/25

**Laboratory Id Number :** Q1665-15 **Target Analyts :** Air Results

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| t-1,3-Dichloropropene | 10061-02-6 | 111 | 0.06 | U | 0.27 | | |
| cis-1,3-Dichloropropene | 10061-01-5 | 111 | 0.06 | U | 0.27 | | |
| 1,1,2-Trichloroethane | 79-00-5 | 133.4 | 0.07 | U | 0.38 | | |
| Dibromochloromethane | 124-48-1 | 208.3 | 0.07 | U | 0.6 | | |
| 1,2-Dibromoethane | 106-93-4 | 187.9 | 0.07 | U | 0.54 | | |
| Tetrachloroethene | 127-18-4 | 165.8 | 0.02 | U | 0.14 | | |
| Chlorobenzene | 108-90-7 | 112.6 | 0.08 | U | 0.37 | | |
| Ethyl Benzene | 100-41-4 | 106.2 | 5 | | 21.7 | | |
| m/p-Xylene | 179601-23-1 | 106.2 | 21.3 | | 92.5 | | |
| o-Xylene | 95-47-6 | 106.2 | 4.1 | | 17.8 | | |
| Styrene | 100-42-5 | 104.1 | 0.11 | U | 0.47 | | |
| Bromoform | 75-25-2 | 252.8 | 0.06 | U | 0.62 | | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 167.9 | 0.01 | U | 0.07 | | |
| 2-Chlorotoluene | 95-49-8 | 126.6 | 0.11 | U | 0.57 | | |
| 1,3,5-Trimethylbenzene | 108-67-8 | 120.2 | 0.11 | J | 0.54 | | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 120.2 | 0.27 | J | 1.33 | | |
| 1,3-Dichlorobenzene | 541-73-1 | 147 | 0.08 | U | 0.48 | | |
| 1,4-Dichlorobenzene | 106-46-7 | 147 | 0.05 | U | 0.3 | | |
| 1,2-Dichlorobenzene | 95-50-1 | 147 | 0.08 | U | 0.48 | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 181.5 | 0.09 | U | 0.67 | | |
| Hexachloro-1,3-Butadiene | 87-68-3 | 260.8 | 0.09 | U | 0.96 | | |
| Naphthalene | 91-20-3 | 128.17 | 0.14 | | 0.73 | | |
| 1,3-Butadiene | 106-99-0 | 54.09 | 0.13 | U | 0.29 | | |
| 4-Ethyltoluene | 622-96-8 | 120.2 | 0.12 | U | 0.59 | | |
| Hexane | 110-54-3 | 86.17 | 2.7 | | 9.52 | | |
| Allyl Chloride | 107-05-1 | 76.53 | 0.15 | U | 0.47 | | |
| 1,4-Dioxane | 123-91-1 | 88.12 | 1 | | 3.6 | | |
| Methyl Methacrylate | 80-62-6 | 100.117 | 0.09 | U | 0.37 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site

**Sampling Date :** 03/25/25

**Field Id Number :** IA-B14-1-3242025DL

**Analysis Date :** 04/17/25

**Laboratory Id Number :** Q1665-15DL

**Target Analyts :** Air Results

| Chemical | Cas Number | Molecular Weight | Insert Results in PPBV | Qualifier | Generate Results in ug/m3 | QAS Decision | Foot Notes |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 120.9 | 2.1 | UD | 10.4 | | |
| Ethanol | 64-17-5 | 46.07 | 27.8 | D | 52.4 | | |
| Chloromethane | 74-87-3 | 50.49 | 0.98 | UD | 2.02 | | |
| Vinyl Chloride | 75-01-4 | 62.5 | 0.14 | UD | 0.36 | | |
| Bromomethane | 74-83-9 | 94.94 | 1.4 | UD | 5.44 | | |
| Chloroethane | 75-00-3 | 64.52 | 1.7 | UD | 4.49 | | |
| Tetrahydrofuran | 109-99-9 | 72.11 | 1.3 | UD | 3.83 | | |
| Trichlorofluoromethane | 75-69-4 | 137.4 | 1.6 | UD | 8.99 | | |
| Dichlorotetrafluoroethane | 76-14-2 | 170.9 | 0.88 | UD | 6.15 | | |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1 | 187.4 | 1.6 | UD | 12.3 | | |
| Bromoethene | 593-60-2 | 106.9 | 1.2 | UD | 5.25 | | |
| tert-Butyl alcohol | 75-65-0 | 74.12 | 1.9 | UD | 5.76 | | |
| Heptane | 142-82-5 | 100.2 | 1.1 | UD | 4.51 | | |
| Isopropyl Alcohol | 67-63-0 | 60.1 | 170 | ED | 417 | | |
| 1,1-Dichloroethene | 75-35-4 | 96.94 | 1.4 | UD | 5.55 | | |
| Acetone | 67-64-1 | 58.08 | 42.5 | D | 100 | | |
| Carbon Disulfide | 75-15-0 | 76.14 | 1.6 | UD | 4.98 | | |
| Methyl tert-Butyl Ether | 1634-04-4 | 88.15 | 1.2 | UD | 4.33 | | |
| Methylene Chloride | 75-09-2 | 84.94 | 1.9 | UD | 6.6 | | |
| trans-1,2-Dichloroethene | 156-60-5 | 96.94 | 1.9 | UD | 7.53 | | |
| 1,1-Dichloroethane | 75-34-3 | 98.96 | 1.3 | UD | 5.26 | | |
| Cyclohexane | 110-82-7 | 84.16 | 2.2 | UD | 7.57 | | |
| 2-Butanone | 78-93-3 | 72.11 | 1.3 | JD | 3.83 | | |
| Carbon Tetrachloride | 56-23-5 | 153.8 | 0.11 | UD | 0.69 | | |
| cis-1,2-Dichloroethene | 156-59-2 | 96.94 | 0.89 | UD | 3.53 | | |
| Chloroform | 67-66-3 | 119.4 | 0.83 | UD | 4.05 | | |
| 1,1,1-Trichloroethane | 71-55-6 | 133.4 | 0.1 | UD | 0.55 | | |
| 2,2,4-Trimethylpentane | 540-84-1 | 114.2 | 1 | UD | 4.67 | | |
| Benzene | 71-43-2 | 78.11 | 0.87 | UD | 2.78 | | |
| 1,2-Dichloroethane | 107-06-2 | 98.96 | 0.91 | UD | 3.68 | | |
| Trichloroethene | 79-01-6 | 131.4 | 0.17 | UD | 0.91 | | |
| 1,2-Dichloropropane | 78-87-5 | 113 | 1.1 | UD | 5.08 | | |
| Bromodichloromethane | 75-27-4 | 163.8 | 0.77 | UD | 5.16 | | |
| 4-Methyl-2-Pentanone | 108-10-1 | 100.2 | 0.93 | UD | 3.81 | | |
| Toluene | 108-88-3 | 92.14 | 1.1 | UD | 4.15 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site **Sampling Date :** 03/25/25

**Field Id Number :** IA-B14-1-3242025DL **Analysis Date :** 04/17/25

**Laboratory Id Number :** Q1665-15DL **Target Analyts :** Air Results

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| t-1,3-Dichloropropene | 10061-02-6 | 111 | 0.6 | UD | 2.72 | | |
| cis-1,3-Dichloropropene | 10061-01-5 | 111 | 0.64 | UD | 2.91 | | |
| 1,1,2-Trichloroethane | 79-00-5 | 133.4 | 0.71 | UD | 3.87 | | |
| Dibromochloromethane | 124-48-1 | 208.3 | 0.66 | UD | 5.62 | | |
| 1,2-Dibromoethane | 106-93-4 | 187.9 | 0.72 | UD | 5.53 | | |
| Tetrachloroethene | 127-18-4 | 165.8 | 0.15 | UD | 1.02 | | |
| Chlorobenzene | 108-90-7 | 112.6 | 0.76 | UD | 3.5 | | |
| Ethyl Benzene | 100-41-4 | 106.2 | 5.1 | D | 22.2 | | |
| m/p-Xylene | 179601-23-1 | 106.2 | 22.3 | D | 96.9 | | |
| o-Xylene | 95-47-6 | 106.2 | 4.1 | JD | 17.8 | | |
| Styrene | 100-42-5 | 104.1 | 1.1 | UD | 4.68 | | |
| Bromoform | 75-25-2 | 252.8 | 0.57 | UD | 5.89 | | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 167.9 | 0.11 | UD | 0.76 | | |
| 2-Chlorotoluene | 95-49-8 | 126.6 | 1.1 | UD | 5.7 | | |
| 1,3,5-Trimethylbenzene | 108-67-8 | 120.2 | 1.1 | UD | 5.41 | | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 120.2 | 0.78 | UD | 3.83 | | |
| 1,3-Dichlorobenzene | 541-73-1 | 147 | 0.8 | UD | 4.81 | | |
| 1,4-Dichlorobenzene | 106-46-7 | 147 | 0.53 | UD | 3.19 | | |
| 1,2-Dichlorobenzene | 95-50-1 | 147 | 0.75 | UD | 4.51 | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 181.5 | 0.85 | UD | 6.31 | | |
| Hexachloro-1,3-Butadiene | 87-68-3 | 260.8 | 0.85 | UD | 9.07 | | |
| Naphthalene | 91-20-3 | 128.17 | 0.75 | UD | 3.93 | | |
| 1,3-Butadiene | 106-99-0 | 54.09 | 1.3 | UD | 2.88 | | |
| 4-Ethyltoluene | 622-96-8 | 120.2 | 1.2 | UD | 5.9 | | |
| Hexane | 110-54-3 | 86.17 | 1.1 | UD | 3.88 | | |
| Allyl Chloride | 107-05-1 | 76.53 | 1.5 | UD | 4.7 | | |
| 1,4-Dioxane | 123-91-1 | 88.12 | 2.1 | UD | 7.57 | | |
| Methyl Methacrylate | 80-62-6 | 100.117 | 0.86 | UD | 3.52 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site

**Sampling Date :** 03/25/25

**Field Id Number :** IA-B2-5-3242025

**Analysis Date :** 04/28/25

**Laboratory Id Number :** Q1665-16

**Target Analyts :** Air Results

| Chemical | Cas Number | Molecular Weight | Insert Results in PPBV | Qualifier | Generate Results in ug/m3 | QAS Decision | Foot Notes |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 120.9 | 0.42 | J | 2.08 | | |
| Ethanol | 64-17-5 | 46.07 | 480 | E | 904 | | |
| Chloromethane | 74-87-3 | 50.49 | 1 | | 2.07 | | |
| Vinyl Chloride | 75-01-4 | 62.5 | 0.01 | U | 0.03 | | |
| Bromomethane | 74-83-9 | 94.94 | 0.14 | U | 0.54 | | |
| Chloroethane | 75-00-3 | 64.52 | 0.17 | U | 0.45 | | |
| Tetrahydrofuran | 109-99-9 | 72.11 | 0.16 | J | 0.47 | | |
| Trichlorofluoromethane | 75-69-4 | 137.4 | 0.22 | J | 1.24 | | |
| Dichlorotetrafluoroethane | 76-14-2 | 170.9 | 0.09 | U | 0.63 | | |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1 | 187.4 | 0.16 | U | 1.23 | | |
| Bromoethene | 593-60-2 | 106.9 | 0.12 | U | 0.52 | | |
| tert-Butyl alcohol | 75-65-0 | 74.12 | 0.24 | J | 0.73 | | |
| Heptane | 142-82-5 | 100.2 | 0.66 | | 2.7 | | |
| Isopropyl Alcohol | 67-63-0 | 60.1 | 29.3 | E | 72.0 | | |
| 1,1-Dichloroethene | 75-35-4 | 96.94 | 0.14 | U | 0.56 | | |
| Acetone | 67-64-1 | 58.08 | 11.7 | | 27.8 | | |
| Carbon Disulfide | 75-15-0 | 76.14 | 0.16 | U | 0.5 | | |
| Methyl tert-Butyl Ether | 1634-04-4 | 88.15 | 0.12 | U | 0.43 | | |
| Methylene Chloride | 75-09-2 | 84.94 | 0.65 | | 2.26 | | |
| trans-1,2-Dichloroethene | 156-60-5 | 96.94 | 0.19 | U | 0.75 | | |
| 1,1-Dichloroethane | 75-34-3 | 98.96 | 0.13 | U | 0.53 | | |
| Cyclohexane | 110-82-7 | 84.16 | 0.5 | | 1.72 | | |
| 2-Butanone | 78-93-3 | 72.11 | 0.8 | | 2.36 | | |
| Carbon Tetrachloride | 56-23-5 | 153.8 | 0.09 | | 0.57 | | |
| cis-1,2-Dichloroethene | 156-59-2 | 96.94 | 0.09 | U | 0.36 | | |
| Chloroform | 67-66-3 | 119.4 | 0.18 | J | 0.88 | | |
| 1,1,1-Trichloroethane | 71-55-6 | 133.4 | 0.01 | U | 0.05 | | |
| 2,2,4-Trimethylpentane | 540-84-1 | 114.2 | 1 | | 4.67 | | |
| Benzene | 71-43-2 | 78.11 | 0.68 | | 2.17 | | |
| 1,2-Dichloroethane | 107-06-2 | 98.96 | 0.09 | U | 0.36 | | |
| Trichloroethene | 79-01-6 | 131.4 | 0.02 | U | 0.11 | | |
| 1,2-Dichloropropane | 78-87-5 | 113 | 0.11 | U | 0.51 | | |
| Bromodichloromethane | 75-27-4 | 163.8 | 0.08 | U | 0.54 | | |
| 4-Methyl-2-Pentanone | 108-10-1 | 100.2 | 0.09 | U | 0.37 | | |
| Toluene | 108-88-3 | 92.14 | 6.7 | | 25.2 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site

**Sampling Date :** 03/25/25

**Field Id Number :** IA-B2-5-3242025

**Analysis Date :** 04/28/25

**Laboratory Id Number :** Q1665-16

**Target Analyts :** Air Results

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| t-1,3-Dichloropropene | 10061-02-6 | 111 | 0.06 | U | 0.27 | | |
| cis-1,3-Dichloropropene | 10061-01-5 | 111 | 0.06 | U | 0.27 | | |
| 1,1,2-Trichloroethane | 79-00-5 | 133.4 | 0.07 | U | 0.38 | | |
| Dibromochloromethane | 124-48-1 | 208.3 | 0.07 | U | 0.6 | | |
| 1,2-Dibromoethane | 106-93-4 | 187.9 | 0.07 | U | 0.54 | | |
| Tetrachloroethene | 127-18-4 | 165.8 | 0.02 | U | 0.14 | | |
| Chlorobenzene | 108-90-7 | 112.6 | 0.08 | U | 0.37 | | |
| Ethyl Benzene | 100-41-4 | 106.2 | 0.58 | | 2.52 | | |
| m/p-Xylene | 179601-23-1 | 106.2 | 2 | | 8.69 | | |
| o-Xylene | 95-47-6 | 106.2 | 0.69 | | 3 | | |
| Styrene | 100-42-5 | 104.1 | 0.25 | J | 1.06 | | |
| Bromoform | 75-25-2 | 252.8 | 0.06 | U | 0.62 | | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 167.9 | 0.01 | U | 0.07 | | |
| 2-Chlorotoluene | 95-49-8 | 126.6 | 0.32 | J | 1.66 | | |
| 1,3,5-Trimethylbenzene | 108-67-8 | 120.2 | 0.27 | J | 1.33 | | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 120.2 | 0.76 | | 3.74 | | |
| 1,3-Dichlorobenzene | 541-73-1 | 147 | 0.08 | U | 0.48 | | |
| 1,4-Dichlorobenzene | 106-46-7 | 147 | 0.05 | U | 0.3 | | |
| 1,2-Dichlorobenzene | 95-50-1 | 147 | 0.08 | U | 0.48 | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 181.5 | 0.09 | U | 0.67 | | |
| Hexachloro-1,3-Butadiene | 87-68-3 | 260.8 | 0.09 | U | 0.96 | | |
| Naphthalene | 91-20-3 | 128.17 | 0.08 | U | 0.42 | | |
| 1,3-Butadiene | 106-99-0 | 54.09 | 0.13 | U | 0.29 | | |
| 4-Ethyltoluene | 622-96-8 | 120.2 | 0.24 | J | 1.18 | | |
| Hexane | 110-54-3 | 86.17 | 3.2 | | 11.3 | | |
| Allyl Chloride | 107-05-1 | 76.53 | 0.15 | U | 0.47 | | |
| 1,4-Dioxane | 123-91-1 | 88.12 | 0.21 | U | 0.76 | | |
| Methyl Methacrylate | 80-62-6 | 100.117 | 0.09 | U | 0.37 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site

**Sampling Date :** 03/25/25

**Field Id Number :** IA-B10-3-3242025

**Analysis Date :** 04/11/25

**Laboratory Id Number :** Q1665-18

**Target Analyts :** Air Results

| Chemical | Cas Number | Molecular Weight | Insert Results in PPBV | Qualifier | Generate Results in ug/m3 | QAS Decision | Foot Notes |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 120.9 | 0.44 | J | 2.18 | | |
| Ethanol | 64-17-5 | 46.07 | 1400 | E | 2637 | | |
| Chloromethane | 74-87-3 | 50.49 | 0.61 | | 1.26 | | |
| Vinyl Chloride | 75-01-4 | 62.5 | 0.01 | U | 0.03 | | |
| Bromomethane | 74-83-9 | 94.94 | 0.14 | U | 0.54 | | |
| Chloroethane | 75-00-3 | 64.52 | 0.17 | U | 0.45 | | |
| Tetrahydrofuran | 109-99-9 | 72.11 | 0.13 | U | 0.38 | | |
| Trichlorofluoromethane | 75-69-4 | 137.4 | 0.19 | J | 1.07 | | |
| Dichlorotetrafluoroethane | 76-14-2 | 170.9 | 0.09 | U | 0.63 | | |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1 | 187.4 | 0.16 | U | 1.23 | | |
| Bromoethene | 593-60-2 | 106.9 | 0.12 | U | 0.52 | | |
| tert-Butyl alcohol | 75-65-0 | 74.12 | 0.45 | J | 1.36 | | |
| Heptane | 142-82-5 | 100.2 | 0.19 | J | 0.78 | | |
| Isopropyl Alcohol | 67-63-0 | 60.1 | 86.2 | E | 211 | | |
| 1,1-Dichloroethene | 75-35-4 | 96.94 | 0.14 | U | 0.56 | | |
| Acetone | 67-64-1 | 58.08 | 90.6 | E | 215 | | |
| Carbon Disulfide | 75-15-0 | 76.14 | 0.16 | U | 0.5 | | |
| Methyl tert-Butyl Ether | 1634-04-4 | 88.15 | 0.12 | U | 0.43 | | |
| Methylene Chloride | 75-09-2 | 84.94 | 0.9 | | 3.13 | | |
| trans-1,2-Dichloroethene | 156-60-5 | 96.94 | 0.19 | U | 0.75 | | |
| 1,1-Dichloroethane | 75-34-3 | 98.96 | 0.13 | U | 0.53 | | |
| Cyclohexane | 110-82-7 | 84.16 | 0.22 | U | 0.76 | | |
| 2-Butanone | 78-93-3 | 72.11 | 22.7 | E | 67.0 | | |
| Carbon Tetrachloride | 56-23-5 | 153.8 | 0.08 | | 0.5 | | |
| cis-1,2-Dichloroethene | 156-59-2 | 96.94 | 0.09 | U | 0.36 | | |
| Chloroform | 67-66-3 | 119.4 | 1.5 | | 7.33 | | |
| 1,1,1-Trichloroethane | 71-55-6 | 133.4 | 0.01 | U | 0.05 | | |
| 2,2,4-Trimethylpentane | 540-84-1 | 114.2 | 0.1 | U | 0.47 | | |
| Benzene | 71-43-2 | 78.11 | 0.68 | | 2.17 | | |
| 1,2-Dichloroethane | 107-06-2 | 98.96 | 0.09 | U | 0.36 | | |
| Trichloroethene | 79-01-6 | 131.4 | 0.02 | U | 0.11 | | |
| 1,2-Dichloropropane | 78-87-5 | 113 | 0.11 | U | 0.51 | | |
| Bromodichloromethane | 75-27-4 | 163.8 | 0.08 | U | 0.54 | | |
| 4-Methyl-2-Pentanone | 108-10-1 | 100.2 | 0.45 | J | 1.84 | | |
| Toluene | 108-88-3 | 92.14 | 0.54 | | 2.03 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site **Sampling Date :** 03/25/25

**Field Id Number :** IA-B10-3-3242025 **Analysis Date :** 04/11/25

**Laboratory Id Number :** Q1665-18 **Target Analyts :** Air Results

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| t-1,3-Dichloropropene | 10061-02-6 | 111 | 0.06 | U | 0.27 | | |
| cis-1,3-Dichloropropene | 10061-01-5 | 111 | 0.06 | U | 0.27 | | |
| 1,1,2-Trichloroethane | 79-00-5 | 133.4 | 0.07 | U | 0.38 | | |
| Dibromochloromethane | 124-48-1 | 208.3 | 0.07 | U | 0.6 | | |
| 1,2-Dibromoethane | 106-93-4 | 187.9 | 0.07 | U | 0.54 | | |
| Tetrachloroethene | 127-18-4 | 165.8 | 0.04 | | 0.27 | | |
| Chlorobenzene | 108-90-7 | 112.6 | 0.08 | U | 0.37 | | |
| Ethyl Benzene | 100-41-4 | 106.2 | 0.12 | U | 0.52 | | |
| m/p-Xylene | 179601-23-1 | 106.2 | 0.21 | U | 0.91 | | |
| o-Xylene | 95-47-6 | 106.2 | 0.12 | U | 0.52 | | |
| Styrene | 100-42-5 | 104.1 | 0.11 | U | 0.47 | | |
| Bromoform | 75-25-2 | 252.8 | 0.06 | U | 0.62 | | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 167.9 | 0.01 | U | 0.07 | | |
| 2-Chlorotoluene | 95-49-8 | 126.6 | 0.11 | U | 0.57 | | |
| 1,3,5-Trimethylbenzene | 108-67-8 | 120.2 | 0.11 | U | 0.54 | | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 120.2 | 0.16 | J | 0.79 | | |
| 1,3-Dichlorobenzene | 541-73-1 | 147 | 0.08 | U | 0.48 | | |
| 1,4-Dichlorobenzene | 106-46-7 | 147 | 0.05 | U | 0.3 | | |
| 1,2-Dichlorobenzene | 95-50-1 | 147 | 0.08 | U | 0.48 | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 181.5 | 0.09 | U | 0.67 | | |
| Hexachloro-1,3-Butadiene | 87-68-3 | 260.8 | 0.09 | U | 0.96 | | |
| Naphthalene | 91-20-3 | 128.17 | 0.08 | U | 0.42 | | |
| 1,3-Butadiene | 106-99-0 | 54.09 | 0.13 | U | 0.29 | | |
| 4-Ethyltoluene | 622-96-8 | 120.2 | 0.12 | U | 0.59 | | |
| Hexane | 110-54-3 | 86.17 | 2.7 | | 9.52 | | |
| Allyl Chloride | 107-05-1 | 76.53 | 0.15 | U | 0.47 | | |
| 1,4-Dioxane | 123-91-1 | 88.12 | 0.21 | U | 0.76 | | |
| Methyl Methacrylate | 80-62-6 | 100.117 | 0.09 | U | 0.37 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site

**Sampling Date :** 03/25/25

**Field Id Number :** IA-B10-3-3242025DL

**Analysis Date :** 04/15/25

**Laboratory Id Number :** Q1665-18DL

**Target Analyts :** Air Results

| Chemical | Cas Number | Molecular Weight | Insert Results in PPBV | Qualifier | Generate Results in ug/m3 | QAS Decision | Foot Notes |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 120.9 | 2.1 | UD | 10.4 | | |
| Ethanol | 64-17-5 | 46.07 | 1800 | ED | 3391 | | |
| Chloromethane | 74-87-3 | 50.49 | 0.98 | UD | 2.02 | | |
| Vinyl Chloride | 75-01-4 | 62.5 | 0.14 | UD | 0.36 | | |
| Bromomethane | 74-83-9 | 94.94 | 1.4 | UD | 5.44 | | |
| Chloroethane | 75-00-3 | 64.52 | 1.7 | UD | 4.49 | | |
| Tetrahydrofuran | 109-99-9 | 72.11 | 1.3 | UD | 3.83 | | |
| Trichlorofluoromethane | 75-69-4 | 137.4 | 1.6 | UD | 8.99 | | |
| Dichlorotetrafluoroethane | 76-14-2 | 170.9 | 0.88 | UD | 6.15 | | |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1 | 187.4 | 1.6 | UD | 12.3 | | |
| Bromoethene | 593-60-2 | 106.9 | 1.2 | UD | 5.25 | | |
| tert-Butyl alcohol | 75-65-0 | 74.12 | 1.9 | UD | 5.76 | | |
| Heptane | 142-82-5 | 100.2 | 1.1 | UD | 4.51 | | |
| Isopropyl Alcohol | 67-63-0 | 60.1 | 78.9 | D | 193 | | |
| 1,1-Dichloroethene | 75-35-4 | 96.94 | 1.4 | UD | 5.55 | | |
| Acetone | 67-64-1 | 58.08 | 150 | D | 356 | | |
| Carbon Disulfide | 75-15-0 | 76.14 | 1.6 | UD | 4.98 | | |
| Methyl tert-Butyl Ether | 1634-04-4 | 88.15 | 1.2 | UD | 4.33 | | |
| Methylene Chloride | 75-09-2 | 84.94 | 1.9 | UD | 6.6 | | |
| trans-1,2-Dichloroethene | 156-60-5 | 96.94 | 1.9 | UD | 7.53 | | |
| 1,1-Dichloroethane | 75-34-3 | 98.96 | 1.3 | UD | 5.26 | | |
| Cyclohexane | 110-82-7 | 84.16 | 2.2 | UD | 7.57 | | |
| 2-Butanone | 78-93-3 | 72.11 | 15.1 | D | 44.5 | | |
| Carbon Tetrachloride | 56-23-5 | 153.8 | 0.11 | UD | 0.69 | | |
| cis-1,2-Dichloroethene | 156-59-2 | 96.94 | 0.89 | UD | 3.53 | | |
| Chloroform | 67-66-3 | 119.4 | 1.3 | JD | 6.35 | | |
| 1,1,1-Trichloroethane | 71-55-6 | 133.4 | 0.1 | UD | 0.55 | | |
| 2,2,4-Trimethylpentane | 540-84-1 | 114.2 | 1 | UD | 4.67 | | |
| Benzene | 71-43-2 | 78.11 | 0.87 | UD | 2.78 | | |
| 1,2-Dichloroethane | 107-06-2 | 98.96 | 0.91 | UD | 3.68 | | |
| Trichloroethene | 79-01-6 | 131.4 | 0.17 | UD | 0.91 | | |
| 1,2-Dichloropropane | 78-87-5 | 113 | 1.1 | UD | 5.08 | | |
| Bromodichloromethane | 75-27-4 | 163.8 | 0.77 | UD | 5.16 | | |
| 4-Methyl-2-Pentanone | 108-10-1 | 100.2 | 0.93 | UD | 3.81 | | |
| Toluene | 108-88-3 | 92.14 | 1.1 | UD | 4.15 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site **Sampling Date :** 03/25/25

**Field Id Number :** IA-B10-3-3242025DL **Analysis Date :** 04/15/25

**Laboratory Id Number :** Q1665-18DL **Target Analyts :** Air Results

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| t-1,3-Dichloropropene | 10061-02-6 | 111 | 0.6 | UD | 2.72 | | |
| cis-1,3-Dichloropropene | 10061-01-5 | 111 | 0.64 | UD | 2.91 | | |
| 1,1,2-Trichloroethane | 79-00-5 | 133.4 | 0.71 | UD | 3.87 | | |
| Dibromochloromethane | 124-48-1 | 208.3 | 0.66 | UD | 5.62 | | |
| 1,2-Dibromoethane | 106-93-4 | 187.9 | 0.72 | UD | 5.53 | | |
| Tetrachloroethene | 127-18-4 | 165.8 | 0.15 | UD | 1.02 | | |
| Chlorobenzene | 108-90-7 | 112.6 | 0.76 | UD | 3.5 | | |
| Ethyl Benzene | 100-41-4 | 106.2 | 1.2 | UD | 5.21 | | |
| m/p-Xylene | 179601-23-1 | 106.2 | 2.1 | UD | 9.12 | | |
| o-Xylene | 95-47-6 | 106.2 | 1.2 | UD | 5.21 | | |
| Styrene | 100-42-5 | 104.1 | 1.1 | UD | 4.68 | | |
| Bromoform | 75-25-2 | 252.8 | 0.57 | UD | 5.89 | | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 167.9 | 0.11 | UD | 0.76 | | |
| 2-Chlorotoluene | 95-49-8 | 126.6 | 1.1 | UD | 5.7 | | |
| 1,3,5-Trimethylbenzene | 108-67-8 | 120.2 | 1.1 | UD | 5.41 | | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 120.2 | 0.78 | UD | 3.83 | | |
| 1,3-Dichlorobenzene | 541-73-1 | 147 | 0.8 | UD | 4.81 | | |
| 1,4-Dichlorobenzene | 106-46-7 | 147 | 0.53 | UD | 3.19 | | |
| 1,2-Dichlorobenzene | 95-50-1 | 147 | 0.75 | UD | 4.51 | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 181.5 | 0.85 | UD | 6.31 | | |
| Hexachloro-1,3-Butadiene | 87-68-3 | 260.8 | 0.85 | UD | 9.07 | | |
| Naphthalene | 91-20-3 | 128.17 | 0.75 | UD | 3.93 | | |
| 1,3-Butadiene | 106-99-0 | 54.09 | 1.3 | UD | 2.88 | | |
| 4-Ethyltoluene | 622-96-8 | 120.2 | 1.2 | UD | 5.9 | | |
| Hexane | 110-54-3 | 86.17 | 1.7 | JD | 5.99 | | |
| Allyl Chloride | 107-05-1 | 76.53 | 1.5 | UD | 4.7 | | |
| 1,4-Dioxane | 123-91-1 | 88.12 | 2.1 | UD | 7.57 | | |
| Methyl Methacrylate | 80-62-6 | 100.117 | 0.86 | UD | 3.52 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site

**Sampling Date :** 03/25/25

**Field Id Number :** IA-B2-2-3242025

**Analysis Date :** 04/28/25

**Laboratory Id Number :** Q1665-19

**Target Analyts :** Air Results

| Chemical | Cas Number | Molecular Weight | Insert Results in PPBV | Qualifier | Generate Results in ug/m3 | QAS Decision | Foot Notes |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 120.9 | 0.46 | J | 2.27 | | |
| Ethanol | 64-17-5 | 46.07 | 320 | E | 602 | | |
| Chloromethane | 74-87-3 | 50.49 | 0.66 | | 1.36 | | |
| Vinyl Chloride | 75-01-4 | 62.5 | 0.01 | U | 0.03 | | |
| Bromomethane | 74-83-9 | 94.94 | 0.14 | U | 0.54 | | |
| Chloroethane | 75-00-3 | 64.52 | 0.17 | U | 0.45 | | |
| Tetrahydrofuran | 109-99-9 | 72.11 | 0.13 | U | 0.38 | | |
| Trichlorofluoromethane | 75-69-4 | 137.4 | 0.22 | J | 1.24 | | |
| Dichlorotetrafluoroethane | 76-14-2 | 170.9 | 0.09 | U | 0.63 | | |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1 | 187.4 | 0.16 | U | 1.23 | | |
| Bromoethene | 593-60-2 | 106.9 | 0.12 | U | 0.52 | | |
| tert-Butyl alcohol | 75-65-0 | 74.12 | 2.9 | | 8.79 | | |
| Heptane | 142-82-5 | 100.2 | 0.49 | J | 2.01 | | |
| Isopropyl Alcohol | 67-63-0 | 60.1 | 32 | E | 78.7 | | |
| 1,1-Dichloroethene | 75-35-4 | 96.94 | 0.14 | U | 0.56 | | |
| Acetone | 67-64-1 | 58.08 | 17.2 | E | 40.9 | | |
| Carbon Disulfide | 75-15-0 | 76.14 | 0.16 | U | 0.5 | | |
| Methyl tert-Butyl Ether | 1634-04-4 | 88.15 | 0.12 | U | 0.43 | | |
| Methylene Chloride | 75-09-2 | 84.94 | 0.89 | | 3.09 | | |
| trans-1,2-Dichloroethene | 156-60-5 | 96.94 | 0.19 | U | 0.75 | | |
| 1,1-Dichloroethane | 75-34-3 | 98.96 | 0.13 | U | 0.53 | | |
| Cyclohexane | 110-82-7 | 84.16 | 0.22 | U | 0.76 | | |
| 2-Butanone | 78-93-3 | 72.11 | 1.6 | | 4.72 | | |
| Carbon Tetrachloride | 56-23-5 | 153.8 | 0.06 | | 0.38 | | |
| cis-1,2-Dichloroethene | 156-59-2 | 96.94 | 0.09 | U | 0.36 | | |
| Chloroform | 67-66-3 | 119.4 | 0.08 | U | 0.39 | | |
| 1,1,1-Trichloroethane | 71-55-6 | 133.4 | 0.01 | U | 0.05 | | |
| 2,2,4-Trimethylpentane | 540-84-1 | 114.2 | 0.67 | | 3.13 | | |
| Benzene | 71-43-2 | 78.11 | 0.45 | J | 1.44 | | |
| 1,2-Dichloroethane | 107-06-2 | 98.96 | 0.46 | J | 1.86 | | |
| Trichloroethene | 79-01-6 | 131.4 | 0.02 | U | 0.11 | | |
| 1,2-Dichloropropane | 78-87-5 | 113 | 0.11 | U | 0.51 | | |
| Bromodichloromethane | 75-27-4 | 163.8 | 0.08 | U | 0.54 | | |
| 4-Methyl-2-Pentanone | 108-10-1 | 100.2 | 0.4 | J | 1.64 | | |
| Toluene | 108-88-3 | 92.14 | 4 | | 15.1 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site **Sampling Date :** 03/25/25

**Field Id Number :** IA-B2-2-3242025 **Analysis Date :** 04/28/25

**Laboratory Id Number :** Q1665-19 **Target Analyts :** Air Results

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| t-1,3-Dichloropropene | 10061-02-6 | 111 | 0.06 | U | 0.27 | | |
| cis-1,3-Dichloropropene | 10061-01-5 | 111 | 0.06 | U | 0.27 | | |
| 1,1,2-Trichloroethane | 79-00-5 | 133.4 | 0.07 | U | 0.38 | | |
| Dibromochloromethane | 124-48-1 | 208.3 | 0.07 | U | 0.6 | | |
| 1,2-Dibromoethane | 106-93-4 | 187.9 | 0.07 | U | 0.54 | | |
| Tetrachloroethene | 127-18-4 | 165.8 | 0.05 | | 0.34 | | |
| Chlorobenzene | 108-90-7 | 112.6 | 0.08 | U | 0.37 | | |
| Ethyl Benzene | 100-41-4 | 106.2 | 0.5 | | 2.17 | | |
| m/p-Xylene | 179601-23-1 | 106.2 | 1.2 | | 5.21 | | |
| o-Xylene | 95-47-6 | 106.2 | 0.5 | | 2.17 | | |
| Styrene | 100-42-5 | 104.1 | 0.32 | J | 1.36 | | |
| Bromoform | 75-25-2 | 252.8 | 0.06 | U | 0.62 | | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 167.9 | 0.01 | U | 0.07 | | |
| 2-Chlorotoluene | 95-49-8 | 126.6 | 0.11 | U | 0.57 | | |
| 1,3,5-Trimethylbenzene | 108-67-8 | 120.2 | 0.14 | J | 0.69 | | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 120.2 | 0.39 | J | 1.92 | | |
| 1,3-Dichlorobenzene | 541-73-1 | 147 | 0.08 | U | 0.48 | | |
| 1,4-Dichlorobenzene | 106-46-7 | 147 | 0.05 | U | 0.3 | | |
| 1,2-Dichlorobenzene | 95-50-1 | 147 | 0.08 | U | 0.48 | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 181.5 | 0.09 | U | 0.67 | | |
| Hexachloro-1,3-Butadiene | 87-68-3 | 260.8 | 0.09 | U | 0.96 | | |
| Naphthalene | 91-20-3 | 128.17 | 0.08 | U | 0.42 | | |
| 1,3-Butadiene | 106-99-0 | 54.09 | 0.13 | U | 0.29 | | |
| 4-Ethyltoluene | 622-96-8 | 120.2 | 0.12 | J | 0.59 | | |
| Hexane | 110-54-3 | 86.17 | 2.4 | | 8.46 | | |
| Allyl Chloride | 107-05-1 | 76.53 | 0.15 | U | 0.47 | | |
| 1,4-Dioxane | 123-91-1 | 88.12 | 0.21 | U | 0.76 | | |
| Methyl Methacrylate | 80-62-6 | 100.117 | 0.09 | U | 0.37 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site

**Sampling Date :** 03/25/25

**Field Id Number :** IA-B2-2-3242025DL

**Analysis Date :** 04/29/25

**Laboratory Id Number :** Q1665-19DL

**Target Analyts :** Air Results

| Chemical | Cas Number | Molecular Weight | Insert Results in PPBV | Qualifier | Generate Results in ug/m3 | QAS Decision | Foot Notes |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 120.9 | 0.84 | UD | 4.15 | | |
| Ethanol | 64-17-5 | 46.07 | 320 | ED | 602 | | |
| Chloromethane | 74-87-3 | 50.49 | 0.39 | UD | 0.81 | | |
| Vinyl Chloride | 75-01-4 | 62.5 | 0.06 | UD | 0.15 | | |
| Bromomethane | 74-83-9 | 94.94 | 0.56 | UD | 2.17 | | |
| Chloroethane | 75-00-3 | 64.52 | 0.68 | UD | 1.79 | | |
| Tetrahydrofuran | 109-99-9 | 72.11 | 0.52 | UD | 1.53 | | |
| Trichlorofluoromethane | 75-69-4 | 137.4 | 0.64 | UD | 3.6 | | |
| Dichlorotetrafluoroethane | 76-14-2 | 170.9 | 0.35 | UD | 2.45 | | |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1 | 187.4 | 0.64 | UD | 4.91 | | |
| Bromoethene | 593-60-2 | 106.9 | 0.48 | UD | 2.1 | | |
| tert-Butyl alcohol | 75-65-0 | 74.12 | 2.7 | D | 8.19 | | |
| Heptane | 142-82-5 | 100.2 | 0.44 | UD | 1.8 | | |
| Isopropyl Alcohol | 67-63-0 | 60.1 | 30.8 | D | 75.7 | | |
| 1,1-Dichloroethene | 75-35-4 | 96.94 | 0.56 | UD | 2.22 | | |
| Acetone | 67-64-1 | 58.08 | 17.3 | D | 41.1 | | |
| Carbon Disulfide | 75-15-0 | 76.14 | 0.64 | UD | 1.99 | | |
| Methyl tert-Butyl Ether | 1634-04-4 | 88.15 | 0.48 | UD | 1.73 | | |
| Methylene Chloride | 75-09-2 | 84.94 | 2.1 | D | 7.3 | | |
| trans-1,2-Dichloroethene | 156-60-5 | 96.94 | 0.76 | UD | 3.01 | | |
| 1,1-Dichloroethane | 75-34-3 | 98.96 | 0.52 | UD | 2.1 | | |
| Cyclohexane | 110-82-7 | 84.16 | 0.88 | UD | 3.03 | | |
| 2-Butanone | 78-93-3 | 72.11 | 1.4 | JD | 4.13 | | |
| Carbon Tetrachloride | 56-23-5 | 153.8 | 0.04 | UD | 0.25 | | |
| cis-1,2-Dichloroethene | 156-59-2 | 96.94 | 0.36 | UD | 1.43 | | |
| Chloroform | 67-66-3 | 119.4 | 0.33 | UD | 1.61 | | |
| 1,1,1-Trichloroethane | 71-55-6 | 133.4 | 0.04 | UD | 0.22 | | |
| 2,2,4-Trimethylpentane | 540-84-1 | 114.2 | 0.5 | JD | 2.34 | | |
| Benzene | 71-43-2 | 78.11 | 0.35 | UD | 1.12 | | |
| 1,2-Dichloroethane | 107-06-2 | 98.96 | 0.36 | UD | 1.46 | | |
| Trichloroethene | 79-01-6 | 131.4 | 0.07 | UD | 0.38 | | |
| 1,2-Dichloropropane | 78-87-5 | 113 | 0.44 | UD | 2.03 | | |
| Bromodichloromethane | 75-27-4 | 163.8 | 0.31 | UD | 2.08 | | |
| 4-Methyl-2-Pentanone | 108-10-1 | 100.2 | 0.37 | UD | 1.52 | | |
| Toluene | 108-88-3 | 92.14 | 2.8 | D | 10.6 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site **Sampling Date :** 03/25/25

**Field Id Number :** IA-B2-2-3242025DL **Analysis Date :** 04/29/25

**Laboratory Id Number :** Q1665-19DL **Target Analyts :** Air Results

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| t-1,3-Dichloropropene | 10061-02-6 | 111 | 0.24 | UD | 1.09 | | |
| cis-1,3-Dichloropropene | 10061-01-5 | 111 | 0.26 | UD | 1.18 | | |
| 1,1,2-Trichloroethane | 79-00-5 | 133.4 | 0.28 | UD | 1.53 | | |
| Dibromochloromethane | 124-48-1 | 208.3 | 0.26 | UD | 2.22 | | |
| 1,2-Dibromoethane | 106-93-4 | 187.9 | 0.29 | UD | 2.23 | | |
| Tetrachloroethene | 127-18-4 | 165.8 | 0.06 | UD | 0.41 | | |
| Chlorobenzene | 108-90-7 | 112.6 | 0.3 | UD | 1.38 | | |
| Ethyl Benzene | 100-41-4 | 106.2 | 0.48 | UD | 2.08 | | |
| m/p-Xylene | 179601-23-1 | 106.2 | 0.84 | UD | 3.65 | | |
| o-Xylene | 95-47-6 | 106.2 | 0.48 | UD | 2.08 | | |
| Styrene | 100-42-5 | 104.1 | 0.44 | UD | 1.87 | | |
| Bromoform | 75-25-2 | 252.8 | 0.23 | UD | 2.38 | | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 167.9 | 0.04 | UD | 0.27 | | |
| 2-Chlorotoluene | 95-49-8 | 126.6 | 0.44 | UD | 2.28 | | |
| 1,3,5-Trimethylbenzene | 108-67-8 | 120.2 | 0.44 | UD | 2.16 | | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 120.2 | 0.31 | UD | 1.52 | | |
| 1,3-Dichlorobenzene | 541-73-1 | 147 | 0.32 | UD | 1.92 | | |
| 1,4-Dichlorobenzene | 106-46-7 | 147 | 0.21 | UD | 1.26 | | |
| 1,2-Dichlorobenzene | 95-50-1 | 147 | 0.3 | UD | 1.8 | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 181.5 | 0.34 | UD | 2.52 | | |
| Hexachloro-1,3-Butadiene | 87-68-3 | 260.8 | 0.34 | UD | 3.63 | | |
| Naphthalene | 91-20-3 | 128.17 | 0.3 | UD | 1.57 | | |
| 1,3-Butadiene | 106-99-0 | 54.09 | 0.52 | UD | 1.15 | | |
| 4-Ethyltoluene | 622-96-8 | 120.2 | 0.48 | UD | 2.36 | | |
| Hexane | 110-54-3 | 86.17 | 1.7 | JD | 5.99 | | |
| Allyl Chloride | 107-05-1 | 76.53 | 0.6 | UD | 1.88 | | |
| 1,4-Dioxane | 123-91-1 | 88.12 | 0.84 | UD | 3.03 | | |
| Methyl Methacrylate | 80-62-6 | 100.117 | 0.34 | UD | 1.39 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site

**Sampling Date :** 03/25/25

**Field Id Number :** IA-B9-3-3242025

**Analysis Date :** 04/09/25

**Laboratory Id Number :** Q1665-20

**Target Analyts :** Air Results

| Chemical | Cas Number | Molecular Weight | Insert Results in PPBV | Qualifier | Generate Results in ug/m3 | QAS Decision | Foot Notes |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 120.9 | 0.42 | J | 2.08 | | |
| Ethanol | 64-17-5 | 46.07 | 31.7 | E | 59.7 | | |
| Chloromethane | 74-87-3 | 50.49 | 0.49 | J | 1.01 | | |
| Vinyl Chloride | 75-01-4 | 62.5 | 0.01 | U | 0.03 | | |
| Bromomethane | 74-83-9 | 94.94 | 0.14 | U | 0.54 | | |
| Chloroethane | 75-00-3 | 64.52 | 0.17 | U | 0.45 | | |
| Tetrahydrofuran | 109-99-9 | 72.11 | 0.28 | J | 0.83 | | |
| Trichlorofluoromethane | 75-69-4 | 137.4 | 0.21 | J | 1.18 | | |
| Dichlorotetrafluoroethane | 76-14-2 | 170.9 | 0.09 | U | 0.63 | | |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1 | 187.4 | 0.16 | U | 1.23 | | |
| Bromoethene | 593-60-2 | 106.9 | 0.12 | U | 0.52 | | |
| tert-Butyl alcohol | 75-65-0 | 74.12 | 0.19 | U | 0.58 | | |
| Heptane | 142-82-5 | 100.2 | 0.16 | J | 0.66 | | |
| Isopropyl Alcohol | 67-63-0 | 60.1 | 39 | E | 95.9 | | |
| 1,1-Dichloroethene | 75-35-4 | 96.94 | 0.14 | U | 0.56 | | |
| Acetone | 67-64-1 | 58.08 | 8 | | 19 | | |
| Carbon Disulfide | 75-15-0 | 76.14 | 0.16 | U | 0.5 | | |
| Methyl tert-Butyl Ether | 1634-04-4 | 88.15 | 0.12 | U | 0.43 | | |
| Methylene Chloride | 75-09-2 | 84.94 | 1.3 | | 4.52 | | |
| trans-1,2-Dichloroethene | 156-60-5 | 96.94 | 0.19 | U | 0.75 | | |
| 1,1-Dichloroethane | 75-34-3 | 98.96 | 0.13 | U | 0.53 | | |
| Cyclohexane | 110-82-7 | 84.16 | 0.22 | U | 0.76 | | |
| 2-Butanone | 78-93-3 | 72.11 | 2.5 | | 7.37 | | |
| Carbon Tetrachloride | 56-23-5 | 153.8 | 0.08 | | 0.5 | | |
| cis-1,2-Dichloroethene | 156-59-2 | 96.94 | 0.09 | U | 0.36 | | |
| Chloroform | 67-66-3 | 119.4 | 0.08 | U | 0.39 | | |
| 1,1,1-Trichloroethane | 71-55-6 | 133.4 | 0.01 | U | 0.05 | | |
| 2,2,4-Trimethylpentane | 540-84-1 | 114.2 | 0.1 | U | 0.47 | | |
| Benzene | 71-43-2 | 78.11 | 0.28 | J | 0.89 | | |
| 1,2-Dichloroethane | 107-06-2 | 98.96 | 0.09 | U | 0.36 | | |
| Trichloroethene | 79-01-6 | 131.4 | 0.02 | U | 0.11 | | |
| 1,2-Dichloropropane | 78-87-5 | 113 | 0.11 | U | 0.51 | | |
| Bromodichloromethane | 75-27-4 | 163.8 | 0.08 | U | 0.54 | | |
| 4-Methyl-2-Pentanone | 108-10-1 | 100.2 | 0.09 | U | 0.37 | | |
| Toluene | 108-88-3 | 92.14 | 0.53 | | 2 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site **Sampling Date :** 03/25/25

**Field Id Number :** IA-B9-3-3242025 **Analysis Date :** 04/09/25

**Laboratory Id Number :** Q1665-20 **Target Analyts :** Air Results

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| t-1,3-Dichloropropene | 10061-02-6 | 111 | 0.06 | U | 0.27 | | |
| cis-1,3-Dichloropropene | 10061-01-5 | 111 | 0.06 | U | 0.27 | | |
| 1,1,2-Trichloroethane | 79-00-5 | 133.4 | 0.07 | U | 0.38 | | |
| Dibromochloromethane | 124-48-1 | 208.3 | 0.07 | U | 0.6 | | |
| 1,2-Dibromoethane | 106-93-4 | 187.9 | 0.07 | U | 0.54 | | |
| Tetrachloroethene | 127-18-4 | 165.8 | 0.02 | U | 0.14 | | |
| Chlorobenzene | 108-90-7 | 112.6 | 0.13 | J | 0.6 | | |
| Ethyl Benzene | 100-41-4 | 106.2 | 0.12 | U | 0.52 | | |
| m/p-Xylene | 179601-23-1 | 106.2 | 0.22 | J | 0.96 | | |
| o-Xylene | 95-47-6 | 106.2 | 0.13 | J | 0.56 | | |
| Styrene | 100-42-5 | 104.1 | 0.11 | U | 0.47 | | |
| Bromoform | 75-25-2 | 252.8 | 0.06 | U | 0.62 | | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 167.9 | 0.01 | U | 0.07 | | |
| 2-Chlorotoluene | 95-49-8 | 126.6 | 0.11 | U | 0.57 | | |
| 1,3,5-Trimethylbenzene | 108-67-8 | 120.2 | 0.11 | U | 0.54 | | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 120.2 | 0.08 | U | 0.39 | | |
| 1,3-Dichlorobenzene | 541-73-1 | 147 | 0.08 | U | 0.48 | | |
| 1,4-Dichlorobenzene | 106-46-7 | 147 | 0.05 | U | 0.3 | | |
| 1,2-Dichlorobenzene | 95-50-1 | 147 | 0.08 | U | 0.48 | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 181.5 | 0.09 | U | 0.67 | | |
| Hexachloro-1,3-Butadiene | 87-68-3 | 260.8 | 0.09 | U | 0.96 | | |
| Naphthalene | 91-20-3 | 128.17 | 0.08 | U | 0.42 | | |
| 1,3-Butadiene | 106-99-0 | 54.09 | 0.13 | U | 0.29 | | |
| 4-Ethyltoluene | 622-96-8 | 120.2 | 0.12 | U | 0.59 | | |
| Hexane | 110-54-3 | 86.17 | 1.5 | | 5.29 | | |
| Allyl Chloride | 107-05-1 | 76.53 | 0.15 | U | 0.47 | | |
| 1,4-Dioxane | 123-91-1 | 88.12 | 0.21 | U | 0.76 | | |
| Methyl Methacrylate | 80-62-6 | 100.117 | 0.09 | U | 0.37 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site

**Sampling Date :** 03/25/25

**Field Id Number :** IA-B2-1-3242025

**Analysis Date :** 04/28/25

**Laboratory Id Number :** Q1665-21

**Target Analyts :** Air Results

| Chemical | Cas Number | Molecular Weight | Insert Results in PPBV | Qualifier | Generate Results in ug/m3 | QAS Decision | Foot Notes |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 120.9 | 0.46 | J | 2.27 | | |
| Ethanol | 64-17-5 | 46.07 | 690 | E | 1300 | | |
| Chloromethane | 74-87-3 | 50.49 | 0.69 | | 1.42 | | |
| Vinyl Chloride | 75-01-4 | 62.5 | 0.01 | U | 0.03 | | |
| Bromomethane | 74-83-9 | 94.94 | 0.14 | U | 0.54 | | |
| Chloroethane | 75-00-3 | 64.52 | 0.17 | U | 0.45 | | |
| Tetrahydrofuran | 109-99-9 | 72.11 | 0.13 | U | 0.38 | | |
| Trichlorofluoromethane | 75-69-4 | 137.4 | 0.22 | J | 1.24 | | |
| Dichlorotetrafluoroethane | 76-14-2 | 170.9 | 0.09 | U | 0.63 | | |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1 | 187.4 | 0.16 | U | 1.23 | | |
| Bromoethene | 593-60-2 | 106.9 | 0.12 | U | 0.52 | | |
| tert-Butyl alcohol | 75-65-0 | 74.12 | 0.28 | J | 0.85 | | |
| Heptane | 142-82-5 | 100.2 | 0.39 | J | 1.6 | | |
| Isopropyl Alcohol | 67-63-0 | 60.1 | 40 | E | 98.3 | | |
| 1,1-Dichloroethene | 75-35-4 | 96.94 | 0.14 | U | 0.56 | | |
| Acetone | 67-64-1 | 58.08 | 15.2 | E | 36.1 | | |
| Carbon Disulfide | 75-15-0 | 76.14 | 0.16 | U | 0.5 | | |
| Methyl tert-Butyl Ether | 1634-04-4 | 88.15 | 0.12 | U | 0.43 | | |
| Methylene Chloride | 75-09-2 | 84.94 | 1.6 | | 5.56 | | |
| trans-1,2-Dichloroethene | 156-60-5 | 96.94 | 0.19 | U | 0.75 | | |
| 1,1-Dichloroethane | 75-34-3 | 98.96 | 0.13 | U | 0.53 | | |
| Cyclohexane | 110-82-7 | 84.16 | 0.3 | J | 1.03 | | |
| 2-Butanone | 78-93-3 | 72.11 | 0.71 | | 2.09 | | |
| Carbon Tetrachloride | 56-23-5 | 153.8 | 0.07 | | 0.44 | | |
| cis-1,2-Dichloroethene | 156-59-2 | 96.94 | 0.09 | U | 0.36 | | |
| Chloroform | 67-66-3 | 119.4 | 0.08 | U | 0.39 | | |
| 1,1,1-Trichloroethane | 71-55-6 | 133.4 | 0.01 | U | 0.05 | | |
| 2,2,4-Trimethylpentane | 540-84-1 | 114.2 | 0.49 | J | 2.29 | | |
| Benzene | 71-43-2 | 78.11 | 0.43 | J | 1.37 | | |
| 1,2-Dichloroethane | 107-06-2 | 98.96 | 0.09 | U | 0.36 | | |
| Trichloroethene | 79-01-6 | 131.4 | 0.02 | U | 0.11 | | |
| 1,2-Dichloropropane | 78-87-5 | 113 | 0.11 | U | 0.51 | | |
| Bromodichloromethane | 75-27-4 | 163.8 | 0.08 | U | 0.54 | | |
| 4-Methyl-2-Pentanone | 108-10-1 | 100.2 | 0.09 | U | 0.37 | | |
| Toluene | 108-88-3 | 92.14 | 8.5 | | 32.0 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site **Sampling Date :** 03/25/25

**Field Id Number :** IA-B2-1-3242025 **Analysis Date :** 04/28/25

**Laboratory Id Number :** Q1665-21 **Target Analyts :** Air Results

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| t-1,3-Dichloropropene | 10061-02-6 | 111 | 0.06 | U | 0.27 | | |
| cis-1,3-Dichloropropene | 10061-01-5 | 111 | 0.06 | U | 0.27 | | |
| 1,1,2-Trichloroethane | 79-00-5 | 133.4 | 0.07 | U | 0.38 | | |
| Dibromochloromethane | 124-48-1 | 208.3 | 0.07 | U | 0.6 | | |
| 1,2-Dibromoethane | 106-93-4 | 187.9 | 0.07 | U | 0.54 | | |
| Tetrachloroethene | 127-18-4 | 165.8 | 0.02 | U | 0.14 | | |
| Chlorobenzene | 108-90-7 | 112.6 | 0.08 | U | 0.37 | | |
| Ethyl Benzene | 100-41-4 | 106.2 | 0.38 | J | 1.65 | | |
| m/p-Xylene | 179601-23-1 | 106.2 | 1.2 | | 5.21 | | |
| o-Xylene | 95-47-6 | 106.2 | 0.52 | | 2.26 | | |
| Styrene | 100-42-5 | 104.1 | 0.24 | J | 1.02 | | |
| Bromoform | 75-25-2 | 252.8 | 0.06 | U | 0.62 | | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 167.9 | 0.01 | U | 0.07 | | |
| 2-Chlorotoluene | 95-49-8 | 126.6 | 0.11 | J | 0.57 | | |
| 1,3,5-Trimethylbenzene | 108-67-8 | 120.2 | 0.13 | J | 0.64 | | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 120.2 | 0.27 | J | 1.33 | | |
| 1,3-Dichlorobenzene | 541-73-1 | 147 | 0.08 | U | 0.48 | | |
| 1,4-Dichlorobenzene | 106-46-7 | 147 | 0.05 | U | 0.3 | | |
| 1,2-Dichlorobenzene | 95-50-1 | 147 | 0.08 | U | 0.48 | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 181.5 | 0.09 | U | 0.67 | | |
| Hexachloro-1,3-Butadiene | 87-68-3 | 260.8 | 0.09 | U | 0.96 | | |
| Naphthalene | 91-20-3 | 128.17 | 0.08 | U | 0.42 | | |
| 1,3-Butadiene | 106-99-0 | 54.09 | 0.13 | U | 0.29 | | |
| 4-Ethyltoluene | 622-96-8 | 120.2 | 0.12 | J | 0.59 | | |
| Hexane | 110-54-3 | 86.17 | 3 | | 10.6 | | |
| Allyl Chloride | 107-05-1 | 76.53 | 0.15 | U | 0.47 | | |
| 1,4-Dioxane | 123-91-1 | 88.12 | 0.21 | U | 0.76 | | |
| Methyl Methacrylate | 80-62-6 | 100.117 | 0.09 | U | 0.37 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site

**Sampling Date :** 03/25/25

**Field Id Number :** IA-B2-1-3242025DL

**Analysis Date :** 04/29/25

**Laboratory Id Number :** Q1665-21DL

**Target Analyts :** Air Results

| Chemical | Cas Number | Molecular Weight | Insert Results in PPBV | Qualifier | Generate Results in ug/m3 | QAS Decision | Foot Notes |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 120.9 | 0.84 | UD | 4.15 | | |
| Ethanol | 64-17-5 | 46.07 | 770 | ED | 1450 | | |
| Chloromethane | 74-87-3 | 50.49 | 0.64 | JD | 1.32 | | |
| Vinyl Chloride | 75-01-4 | 62.5 | 0.06 | UD | 0.15 | | |
| Bromomethane | 74-83-9 | 94.94 | 0.56 | UD | 2.17 | | |
| Chloroethane | 75-00-3 | 64.52 | 0.68 | UD | 1.79 | | |
| Tetrahydrofuran | 109-99-9 | 72.11 | 0.52 | UD | 1.53 | | |
| Trichlorofluoromethane | 75-69-4 | 137.4 | 0.64 | UD | 3.6 | | |
| Dichlorotetrafluoroethane | 76-14-2 | 170.9 | 0.35 | UD | 2.45 | | |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1 | 187.4 | 0.64 | UD | 4.91 | | |
| Bromoethene | 593-60-2 | 106.9 | 0.48 | UD | 2.1 | | |
| tert-Butyl alcohol | 75-65-0 | 74.12 | 0.76 | UD | 2.3 | | |
| Heptane | 142-82-5 | 100.2 | 0.44 | UD | 1.8 | | |
| Isopropyl Alcohol | 67-63-0 | 60.1 | 36.8 | D | 90.5 | | |
| 1,1-Dichloroethene | 75-35-4 | 96.94 | 0.56 | UD | 2.22 | | |
| Acetone | 67-64-1 | 58.08 | 15.7 | D | 37.3 | | |
| Carbon Disulfide | 75-15-0 | 76.14 | 0.64 | UD | 1.99 | | |
| Methyl tert-Butyl Ether | 1634-04-4 | 88.15 | 0.48 | UD | 1.73 | | |
| Methylene Chloride | 75-09-2 | 84.94 | 3.2 | D | 11.1 | | |
| trans-1,2-Dichloroethene | 156-60-5 | 96.94 | 0.76 | UD | 3.01 | | |
| 1,1-Dichloroethane | 75-34-3 | 98.96 | 0.52 | UD | 2.1 | | |
| Cyclohexane | 110-82-7 | 84.16 | 0.88 | UD | 3.03 | | |
| 2-Butanone | 78-93-3 | 72.11 | 0.7 | JD | 2.06 | | |
| Carbon Tetrachloride | 56-23-5 | 153.8 | 0.04 | UD | 0.25 | | |
| cis-1,2-Dichloroethene | 156-59-2 | 96.94 | 0.36 | UD | 1.43 | | |
| Chloroform | 67-66-3 | 119.4 | 0.33 | UD | 1.61 | | |
| 1,1,1-Trichloroethane | 71-55-6 | 133.4 | 0.04 | UD | 0.22 | | |
| 2,2,4-Trimethylpentane | 540-84-1 | 114.2 | 0.4 | UD | 1.87 | | |
| Benzene | 71-43-2 | 78.11 | 0.35 | UD | 1.12 | | |
| 1,2-Dichloroethane | 107-06-2 | 98.96 | 0.36 | UD | 1.46 | | |
| Trichloroethene | 79-01-6 | 131.4 | 0.07 | UD | 0.38 | | |
| 1,2-Dichloropropane | 78-87-5 | 113 | 0.44 | UD | 2.03 | | |
| Bromodichloromethane | 75-27-4 | 163.8 | 0.31 | UD | 2.08 | | |
| 4-Methyl-2-Pentanone | 108-10-1 | 100.2 | 0.37 | UD | 1.52 | | |
| Toluene | 108-88-3 | 92.14 | 5.7 | D | 21.5 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site **Sampling Date :** 03/25/25

**Field Id Number :** IA-B2-1-3242025DL **Analysis Date :** 04/29/25

**Laboratory Id Number :** Q1665-21DL **Target Analyts :** Air Results

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| t-1,3-Dichloropropene | 10061-02-6 | 111 | 0.24 | UD | 1.09 | | |
| cis-1,3-Dichloropropene | 10061-01-5 | 111 | 0.26 | UD | 1.18 | | |
| 1,1,2-Trichloroethane | 79-00-5 | 133.4 | 0.28 | UD | 1.53 | | |
| Dibromochloromethane | 124-48-1 | 208.3 | 0.26 | UD | 2.22 | | |
| 1,2-Dibromoethane | 106-93-4 | 187.9 | 0.29 | UD | 2.23 | | |
| Tetrachloroethene | 127-18-4 | 165.8 | 0.06 | UD | 0.41 | | |
| Chlorobenzene | 108-90-7 | 112.6 | 0.3 | UD | 1.38 | | |
| Ethyl Benzene | 100-41-4 | 106.2 | 0.48 | UD | 2.08 | | |
| m/p-Xylene | 179601-23-1 | 106.2 | 0.84 | UD | 3.65 | | |
| o-Xylene | 95-47-6 | 106.2 | 0.48 | UD | 2.08 | | |
| Styrene | 100-42-5 | 104.1 | 0.44 | UD | 1.87 | | |
| Bromoform | 75-25-2 | 252.8 | 0.23 | UD | 2.38 | | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 167.9 | 0.04 | UD | 0.27 | | |
| 2-Chlorotoluene | 95-49-8 | 126.6 | 0.44 | UD | 2.28 | | |
| 1,3,5-Trimethylbenzene | 108-67-8 | 120.2 | 0.44 | UD | 2.16 | | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 120.2 | 0.31 | UD | 1.52 | | |
| 1,3-Dichlorobenzene | 541-73-1 | 147 | 0.32 | UD | 1.92 | | |
| 1,4-Dichlorobenzene | 106-46-7 | 147 | 0.21 | UD | 1.26 | | |
| 1,2-Dichlorobenzene | 95-50-1 | 147 | 0.3 | UD | 1.8 | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 181.5 | 0.34 | UD | 2.52 | | |
| Hexachloro-1,3-Butadiene | 87-68-3 | 260.8 | 0.34 | UD | 3.63 | | |
| Naphthalene | 91-20-3 | 128.17 | 0.3 | UD | 1.57 | | |
| 1,3-Butadiene | 106-99-0 | 54.09 | 0.52 | UD | 1.15 | | |
| 4-Ethyltoluene | 622-96-8 | 120.2 | 0.48 | UD | 2.36 | | |
| Hexane | 110-54-3 | 86.17 | 2.3 | D | 8.11 | | |
| Allyl Chloride | 107-05-1 | 76.53 | 0.6 | UD | 1.88 | | |
| 1,4-Dioxane | 123-91-1 | 88.12 | 0.84 | UD | 3.03 | | |
| Methyl Methacrylate | 80-62-6 | 100.117 | 0.34 | UD | 1.39 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site

**Sampling Date :** 03/25/25

**Field Id Number :** IA-B2-4-3242025

**Analysis Date :** 04/28/25

**Laboratory Id Number :** Q1665-22

**Target Analyts :** Air Results

| Chemical | Cas Number | Molecular Weight | Insert Results in PPBV | Qualifier | Generate Results in ug/m3 | QAS Decision | Foot Notes |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | 120.9 | 0.5 | | 2.47 | | |
| Ethanol | 64-17-5 | 46.07 | 250 | E | 471 | | |
| Chloromethane | 74-87-3 | 50.49 | 0.6 | | 1.24 | | |
| Vinyl Chloride | 75-01-4 | 62.5 | 0.01 | U | 0.03 | | |
| Bromomethane | 74-83-9 | 94.94 | 0.14 | U | 0.54 | | |
| Chloroethane | 75-00-3 | 64.52 | 0.17 | U | 0.45 | | |
| Tetrahydrofuran | 109-99-9 | 72.11 | 0.13 | U | 0.38 | | |
| Trichlorofluoromethane | 75-69-4 | 137.4 | 0.23 | J | 1.29 | | |
| Dichlorotetrafluoroethane | 76-14-2 | 170.9 | 0.09 | U | 0.63 | | |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1 | 187.4 | 0.16 | U | 1.23 | | |
| Bromoethene | 593-60-2 | 106.9 | 0.12 | U | 0.52 | | |
| tert-Butyl alcohol | 75-65-0 | 74.12 | 0.3 | J | 0.91 | | |
| Heptane | 142-82-5 | 100.2 | 0.66 | | 2.7 | | |
| Isopropyl Alcohol | 67-63-0 | 60.1 | 28.3 | E | 69.6 | | |
| 1,1-Dichloroethene | 75-35-4 | 96.94 | 0.14 | U | 0.56 | | |
| Acetone | 67-64-1 | 58.08 | 13.8 | | 32.8 | | |
| Carbon Disulfide | 75-15-0 | 76.14 | 0.16 | U | 0.5 | | |
| Methyl tert-Butyl Ether | 1634-04-4 | 88.15 | 0.12 | U | 0.43 | | |
| Methylene Chloride | 75-09-2 | 84.94 | 0.6 | | 2.08 | | |
| trans-1,2-Dichloroethene | 156-60-5 | 96.94 | 0.19 | U | 0.75 | | |
| 1,1-Dichloroethane | 75-34-3 | 98.96 | 0.13 | U | 0.53 | | |
| Cyclohexane | 110-82-7 | 84.16 | 0.26 | J | 0.89 | | |
| 2-Butanone | 78-93-3 | 72.11 | 0.52 | | 1.53 | | |
| Carbon Tetrachloride | 56-23-5 | 153.8 | 0.07 | | 0.44 | | |
| cis-1,2-Dichloroethene | 156-59-2 | 96.94 | 0.09 | U | 0.36 | | |
| Chloroform | 67-66-3 | 119.4 | 0.08 | U | 0.39 | | |
| 1,1,1-Trichloroethane | 71-55-6 | 133.4 | 0.01 | U | 0.05 | | |
| 2,2,4-Trimethylpentane | 540-84-1 | 114.2 | 1.2 | | 5.6 | | |
| Benzene | 71-43-2 | 78.11 | 0.56 | | 1.79 | | |
| 1,2-Dichloroethane | 107-06-2 | 98.96 | 0.09 | U | 0.36 | | |
| Trichloroethene | 79-01-6 | 131.4 | 0.02 | U | 0.11 | | |
| 1,2-Dichloropropane | 78-87-5 | 113 | 0.11 | U | 0.51 | | |
| Bromodichloromethane | 75-27-4 | 163.8 | 0.08 | U | 0.54 | | |
| 4-Methyl-2-Pentanone | 108-10-1 | 100.2 | 0.09 | U | 0.37 | | |
| Toluene | 108-88-3 | 92.14 | 4.7 | | 17.7 | | |

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**Project :** US EPA Riverside Industrial Park Superfund Site **Sampling Date :** 03/25/25

**Field Id Number :** IA-B2-4-3242025 **Analysis Date :** 04/28/25

**Laboratory Id Number :** Q1665-22 **Target Analyts :** Air Results

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| t-1,3-Dichloropropene | 10061-02-6 | 111 | 0.06 | U | 0.27 | | |
| cis-1,3-Dichloropropene | 10061-01-5 | 111 | 0.06 | U | 0.27 | | |
| 1,1,2-Trichloroethane | 79-00-5 | 133.4 | 0.07 | U | 0.38 | | |
| Dibromochloromethane | 124-48-1 | 208.3 | 0.07 | U | 0.6 | | |
| 1,2-Dibromoethane | 106-93-4 | 187.9 | 0.07 | U | 0.54 | | |
| Tetrachloroethene | 127-18-4 | 165.8 | 0.02 | U | 0.14 | | |
| Chlorobenzene | 108-90-7 | 112.6 | 0.08 | U | 0.37 | | |
| Ethyl Benzene | 100-41-4 | 106.2 | 0.51 | | 2.22 | | |
| m/p-Xylene | 179601-23-1 | 106.2 | 1.8 | | 7.82 | | |
| o-Xylene | 95-47-6 | 106.2 | 0.69 | | 3 | | |
| Styrene | 100-42-5 | 104.1 | 0.14 | J | 0.6 | | |
| Bromoform | 75-25-2 | 252.8 | 0.06 | U | 0.62 | | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 167.9 | 0.01 | U | 0.07 | | |
| 2-Chlorotoluene | 95-49-8 | 126.6 | 0.11 | U | 0.57 | | |
| 1,3,5-Trimethylbenzene | 108-67-8 | 120.2 | 0.19 | J | 0.93 | | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 120.2 | 0.51 | | 2.51 | | |
| 1,3-Dichlorobenzene | 541-73-1 | 147 | 0.08 | U | 0.48 | | |
| 1,4-Dichlorobenzene | 106-46-7 | 147 | 0.05 | U | 0.3 | | |
| 1,2-Dichlorobenzene | 95-50-1 | 147 | 0.08 | U | 0.48 | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 181.5 | 0.09 | U | 0.67 | | |
| Hexachloro-1,3-Butadiene | 87-68-3 | 260.8 | 0.09 | U | 0.96 | | |
| Naphthalene | 91-20-3 | 128.17 | 0.08 | U | 0.42 | | |
| 1,3-Butadiene | 106-99-0 | 54.09 | 0.13 | U | 0.29 | | |
| 4-Ethyltoluene | 622-96-8 | 120.2 | 0.18 | J | 0.88 | | |
| Hexane | 110-54-3 | 86.17 | 2.7 | | 9.52 | | |
| Allyl Chloride | 107-05-1 | 76.53 | 0.15 | U | 0.47 | | |
| 1,4-Dioxane | 123-91-1 | 88.12 | 0.21 | U | 0.76 | | |
| Methyl Methacrylate | 80-62-6 | 100.117 | 0.09 | U | 0.37 | | |

| Method | Matrix | Parameter | Spike_Amt_ Added | Calculated MDL | MB Data | MB Datafile | New MDL TO Be Used | MDL Unit |
|---|---|---|---|---|---|---|---|---|
| TO-15 | Air | 1,1,1,2-Tetrachloroethane | 0.4 | 0.090683682 | 0 | | 0.091 | ppbv |
| TO-15 | Air | 1,1,1-Trichloroethane | 0.03 | 0.00947589 | 0 | | 0.0095 | ppbv |
| TO-15 | Air | 1,1,2,2-Tetrachloroethane | 0.03 | 0.010183321 | 0 | | 0.011 | ppbv |
| TO-15 | Air | 1,1,2-Trichloroethane | 0.4 | 0.070112514 | 0 | | 0.071 | ppbv |
| TO-15 | Air | 1,1,2-Trichlorotrifluoroethane | 0.4 | 0.155560652 | 0 | | 0.16 | ppbv |
| TO-15 | Air | 1,1-Dichloroethane | 0.4 | 0.122378743 | 0 | | 0.13 | ppbv |
| TO-15 | Air | 1,1-Dichloroethene | 0.4 | 0.139735617 | 0 | | 0.14 | ppbv |
| TO-15 | Air | 1,2,4-Trichlorobenzene | 0.4 | 0.084677012 | 0 | | 0.085 | ppbv |
| TO-15 | Air | 1,2,4-Trimethylbenzene | 0.4 | 0.077496367 | 0 | | 0.078 | ppbv |
| TO-15 | Air | 1,2-Dibromoethane | 0.4 | 0.071318853 | 0 | | 0.072 | ppbv |
| TO-15 | Air | 1,2-Dichlorobenzene | 0.4 | 0.074250332 | 0 | | 0.075 | ppbv |
| TO-15 | Air | 1,2-Dichloroethane | 0.4 | 0.090890005 | 0 | | 0.091 | ppbv |
| TO-15 | Air | 1,2-Dichloropropane | 0.4 | 0.073346868 | 0.109 | VL038919.D | 0.11 | ppbv |
| TO-15 | Air | 1,3,5-Trimethylbenzene | 0.4 | 0.101198372 | 0 | | 0.11 | ppbv |
| TO-15 | Air | 1,3-Butadiene | 0.4 | 0.124009143 | 0 | | 0.13 | ppbv |
| TO-15 | Air | 1,3-Dichlorobenzene | 0.4 | 0.079013305 | 0 | | 0.08 | ppbv |
| TO-15 | Air | 1,4-Dichlorobenzene | 0.4 | 0.052746151 | 0 | | 0.053 | ppbv |
| TO-15 | Air | 1,4-Dioxane | 0.4 | 0.202123585 | 0 | | 0.21 | ppbv |
| TO-15 | Air | 2,2,4-Trimethylpentane | 0.4 | 0.09988427 | 0 | | 0.10 | ppbv |
| TO-15 | Air | 2-Butanone | 0.4 | 0.118687999 | 0 | | 0.12 | ppbv |
| TO-15 | Air | 2-Chlorotoluene | 0.4 | 0.104141644 | 0 | | 0.11 | ppbv |
| TO-15 | Air | 2-Hexanone | 0.4 | 0.080656229 | 0 | | 0.081 | ppbv |
| TO-15 | Air | 4-Ethyltoluene | 0.4 | 0.112037051 | 0 | | 0.12 | ppbv |
| TO-15 | Air | 4-Methyl-2-Pentanone | 0.4 | 0.092836933 | 0 | | 0.093 | ppbv |
| TO-15 | Air | Acetone | 0.4 | 0.234416891 | 0 | | 0.24 | ppbv |
| TO-15 | Air | Allyl Chloride | 0.4 | 0.145618654 | 0 | | 0.15 | ppbv |
| TO-15 | Air | Benzene | 0.4 | 0.086407689 | 0 | | 0.087 | ppbv |
| TO-15 | Air | Benzyl Chloride | 0.4 | 0.173895169 | 0 | | 0.18 | ppbv |
| TO-15 | Air | Bromodichloromethane | 0.4 | 0.076780313 | 0 | | 0.077 | ppbv |
| TO-15 | Air | Bromoethene | 0.4 | 0.115560124 | 0 | | 0.12 | ppbv |
| TO-15 | Air | Bromoform | 0.4 | 0.056947551 | 0 | | 0.057 | ppbv |
| TO-15 | Air | Bromomethane | 0.4 | 0.137678239 | 0 | | 0.14 | ppbv |
| TO-15 | Air | Carbon Disulfide | 0.4 | 0.157343925 | 0 | | 0.16 | ppbv |
| TO-15 | Air | Carbon Tetrachloride | 0.03 | 0.010617308 | 0 | | 0.011 | ppbv |
| TO-15 | Air | Chlorobenzene | 0.4 | 0.075202602 | 0 | | 0.076 | ppbv |
| TO-15 | Air | Chlorodifluoromethane | 0.4 | 0.087466815 | 0 | | 0.088 | ppbv |
| TO-15 | Air | Chloroethane | 0.4 | 0.163530318 | 0 | | 0.17 | ppbv |
| TO-15 | Air | Chloroform | 0.4 | 0.082232394 | 0 | | 0.083 | ppbv |
| TO-15 | Air | Chloromethane | 0.4 | 0.097292998 | 0 | | 0.098 | ppbv |
| TO-15 | Air | cis-1,2-Dichloroethene | 0.4 | 0.088332535 | 0 | | 0.089 | ppbv |
| TO-15 | Air | cis-1,3-Dichloropropene | 0.4 | 0.063248763 | 0 | | 0.064 | ppbv |
| TO-15 | Air | Cyclohexane | 0.4 | 0.217999816 | 0 | | 0.22 | ppbv |
| TO-15 | Air | Dibromochloromethane | 0.4 | 0.065703935 | 0 | | 0.066 | ppbv |
| TO-15 | Air | Dichlorodifluoromethane | 0.4 | 0.20957733 | 0 | | 0.21 | ppbv |
| TO-15 | Air | Dichlorotetrafluoroethane | 0.4 | 0.087348046 | 0 | | 0.088 | ppbv |
| TO-15 | Air | Ethyl Acetate | 0.4 | 0.078161123 | 0 | | 0.079 | ppbv |
| TO-15 | Air | Ethyl Benzene | 0.4 | 0.115413562 | 0 | | 0.12 | ppbv |
| TO-15 | Air | Heptane | 0.4 | 0.100800637 | 0 | | 0.11 | ppbv |
| TO-15 | Air | Hexachloro-1,3-Butadiene | 0.4 | 0.084169773 | 0 | | 0.085 | ppbv |
| TO-15 | Air | Hexane | 0.4 | 0.106485082 | 0 | | 0.11 | ppbv |
| TO-15 | Air | Isopropyl Alcohol | 0.4 | 0.068329134 | 0 | | 0.069 | ppbv |
| TO-15 | Air | Isopropylbenzene | 0.4 | 0.086744608 | 0 | | 0.087 | ppbv |
| TO-15 | Air | m/p-Xylene | 0.4 | 0.205831125 | 0 | | 0.21 | ppbv |
| TO-15 | Air | Methyl Methacrylate | 0.4 | 0.085528753 | 0 | | 0.086 | ppbv |
| TO-15 | Air | Methyl tert-Butyl Ether | 0.4 | 0.119546728 | 0 | | 0.12 | ppbv |
| TO-15 | Air | Methylene Chloride | 0.4 | 0.18405265 | 0.11 | VL039022.D | 0.19 | ppbv |
| TO-15 | Air | Naphthalene | 0.4 | 0.074961199 | 0 | | 0.075 | ppbv |
| TO-15 | Air | Naphthalene,2-methyl- | 0.4 | 0.148496389 | 0 | | 0.15 | ppbv |
| TO-15 | Air | n-Butylbenzene | 0.4 | 0.08201719 | 0 | | 0.083 | ppbv |
| TO-15 | Air | n-propylbenzene | 0.4 | 0.0778963 | 0 | | 0.078 | ppbv |
| TO-15 | Air | o-Xylene | 0.4 | 0.117630235 | 0 | | 0.12 | ppbv |
| TO-15 | Air | p-Isopropyltoluene | 0.4 | 0.085704866 | 0 | | 0.086 | ppbv |
| TO-15 | Air | Propene | 0.4 | 0.143790814 | 0.14 | VL039337.D | 0.15 | ppbv |
| TO-15 | Air | sec-Butylbenzene | 0.4 | 0.093164076 | 0 | | 0.094 | ppbv |
| TO-15 | Air | Styrene | 0.4 | 0.109444442 | 0 | | 0.11 | ppbv |
| TO-15 | Air | t-1,3-Dichloropropene | 0.4 | 0.059734415 | 0 | | 0.06 | ppbv |
| TO-15 | Air | tert-Butyl alcohol | 0.4 | 0.187711954 | 0 | | 0.19 | ppbv |
| TO-15 | Air | tert-Butylbenzene | 0.4 | 0.092760327 | 0 | | 0.093 | ppbv |
| TO-15 | Air | Tetrachloroethene | 0.03 | 0.014462962 | 0 | | 0.015 | ppbv |
| TO-15 | Air | Tetrahydrofuran | 0.4 | 0.122655048 | 0 | | 0.13 | ppbv |
| TO-15 | Air | Toluene | 0.4 | 0.109284 | 0 | | 0.11 | ppbv |
| TO-15 | Air | trans-1,2-Dichloroethene | 0.4 | 0.185264638 | 0 | | 0.19 | ppbv |
| TO-15 | Air | Trichloroethene | 0.03 | 0.016558175 | 0 | | 0.017 | ppbv |
| TO-15 | Air | Trichlorofluoromethane | 0.4 | 0.157465794 | 0 | | 0.16 | ppbv |
| TO-15 | Air | Vinyl Acetate | 0.4 | 0.152371485 | 0 | | 0.16 | ppbv |
| TO-15 | Air | Vinyl Chloride | 0.03 | 0.013585954 | 0 | | 0.014 | ppbv |
| TO-15 | Air | Ethanol | 0.4 | 0.317031286 | 0 | | 0.32 | ug/L |

| StdevVal | StudentsT Value | Instrument ID | Datafile1 | Concentration1 | Adate1 | Datafile2 | Concentration2 |
|---|---|---|---|---|---|---|---|
| 0.03485153 | 2.602 | MSVOA_L | VL038602.D | 0.51 | 03142022T18:52:00 | VL038645.D | 0.494 |
| 0.003641772 | 2.602 | MSVOA_L | VL038599.D | 0.03 | 03142022T17:01:00 | VL038658.D | 0.029 |
| 0.003913651 | 2.602 | MSVOA_L | VL038599.D | 0.03 | 03142022T17:01:00 | VL038658.D | 0.035 |
| 0.026945624 | 2.602 | MSVOA_L | VL038602.D | 0.44 | 03142022T18:52:00 | VL038645.D | 0.439 |
| 0.059785032 | 2.602 | MSVOA_L | VL038602.D | 0.47 | 03142022T18:52:00 | VL038645.D | 0.466 |
| 0.047032569 | 2.602 | MSVOA_L | VL038602.D | 0.45 | 03142022T18:52:00 | VL038645.D | 0.456 |
| 0.053703158 | 2.602 | MSVOA_L | VL038602.D | 0.43 | 03142022T18:52:00 | VL038645.D | 0.411 |
| 0.032543048 | 2.602 | MSVOA_L | VL038602.D | 0.3 | 03142022T18:52:00 | VL038645.D | 0.336 |
| 0.029783385 | 2.602 | MSVOA_L | VL038602.D | 0.38 | 03142022T18:52:00 | VL038645.D | 0.396 |
| 0.027409244 | 2.602 | MSVOA_L | VL038602.D | 0.38 | 03142022T18:52:00 | VL038645.D | 0.352 |
| 0.028535869 | 2.602 | MSVOA_L | VL038602.D | 0.45 | 03142022T18:52:00 | VL038645.D | 0.407 |
| 0.034930824 | 2.602 | MSVOA_L | VL038602.D | 0.41 | 03142022T18:52:00 | VL038645.D | 0.445 |
| 0.02818865 | 2.602 | MSVOA_L | VL038602.D | 0.43 | 03142022T18:52:00 | VL038645.D | 0.406 |
| 0.038892534 | 2.602 | MSVOA_L | VL038602.D | 0.33 | 03142022T18:52:00 | VL038645.D | 0.374 |
| 0.047659163 | 2.602 | MSVOA_L | VL038602.D | 0.42 | 03142022T18:52:00 | VL038645.D | 0.419 |
| 0.030366374 | 2.602 | MSVOA_L | VL038602.D | 0.42 | 03142022T18:52:00 | VL038645.D | 0.428 |
| 0.020271388 | 2.602 | MSVOA_L | VL038602.D | 0.42 | 03142022T18:52:00 | VL038645.D | 0.418 |
| 0.077680086 | 2.602 | MSVOA_L | VL038602.D | 0.46 | 03142022T18:52:00 | VL038645.D | 0.285 |
| 0.038387498 | 2.602 | MSVOA_L | VL038602.D | 0.39 | 03142022T18:52:00 | VL038645.D | 0.383 |
| 0.045614143 | 2.602 | MSVOA_L | VL038602.D | 0.4 | 03142022T18:52:00 | VL038645.D | 0.406 |
| 0.040023691 | 2.602 | MSVOA_L | VL038602.D | 0.37 | 03142022T18:52:00 | VL038645.D | 0.375 |
| 0.030997782 | 2.602 | MSVOA_L | VL038602.D | 0.3 | 03142022T18:52:00 | VL038645.D | 0.283 |
| 0.043058052 | 2.602 | MSVOA_L | VL038602.D | 0.34 | 03142022T18:52:00 | VL038645.D | 0.356 |
| 0.035679067 | 2.602 | MSVOA_L | VL038602.D | 0.3 | 03142022T18:52:00 | VL038645.D | 0.282 |
| 0.090091042 | 2.602 | MSVOA_L | VL038602.D | 0.43 | 03142022T18:52:00 | VL038645.D | 0.468 |
| 0.055964125 | 2.602 | MSVOA_L | VL038602.D | 0.4 | 03142022T18:52:00 | VL038645.D | 0.392 |
| 0.033208182 | 2.602 | MSVOA_L | VL038602.D | 0.38 | 03142022T18:52:00 | VL038645.D | 0.407 |
| 0.066831349 | 2.602 | MSVOA_L | VL038602.D | 0.44 | 03142022T18:52:00 | VL038645.D | 0.454 |
| 0.029508191 | 2.602 | MSVOA_L | VL038602.D | 0.43 | 03142022T18:52:00 | VL038645.D | 0.408 |
| 0.044412039 | 2.602 | MSVOA_L | VL038602.D | 0.42 | 03142022T18:52:00 | VL038645.D | 0.433 |
| 0.021886069 | 2.602 | MSVOA_L | VL038602.D | 0.38 | 03142022T18:52:00 | VL038645.D | 0.31 |
| 0.052912467 | 2.602 | MSVOA_L | VL038602.D | 0.43 | 03142022T18:52:00 | VL038645.D | 0.404 |
| 0.060470378 | 2.602 | MSVOA_L | VL038602.D | 0.37 | 03142022T18:52:00 | VL038645.D | 0.357 |
| 0.004080441 | 2.602 | MSVOA_L | VL038599.D | 0.03 | 03142022T17:01:00 | VL038658.D | 0.026 |
| 0.028901845 | 2.602 | MSVOA_L | VL038602.D | 0.48 | 03142022T18:52:00 | VL038645.D | 0.467 |
| 0.033615225 | 2.602 | MSVOA_L | VL038602.D | 0.45 | 03142022T18:52:00 | VL038645.D | 0.468 |
| 0.062847932 | 2.602 | MSVOA_L | VL038602.D | 0.44 | 03142022T18:52:00 | VL038645.D | 0.453 |
| 0.031603534 | 2.602 | MSVOA_L | VL038602.D | 0.45 | 03142022T18:52:00 | VL038645.D | 0.464 |
| 0.037391621 | 2.602 | MSVOA_L | VL038602.D | 0.47 | 03142022T18:52:00 | VL038645.D | 0.439 |
| 0.033947938 | 2.602 | MSVOA_L | VL038602.D | 0.36 | 03142022T18:52:00 | VL038645.D | 0.391 |
| 0.024307749 | 2.602 | MSVOA_L | VL038602.D | 0.3 | 03142022T18:52:00 | VL038645.D | 0.317 |
| 0.083781636 | 2.602 | MSVOA_L | VL038602.D | 0.42 | 03142022T18:52:00 | VL038645.D | 0.414 |
| 0.02525132 | 2.602 | MSVOA_L | VL038602.D | 0.39 | 03142022T18:52:00 | VL038645.D | 0.359 |
| 0.080544708 | 2.602 | MSVOA_L | VL038602.D | 0.49 | 03142022T18:52:00 | VL038645.D | 0.43 |
| 0.033569579 | 2.602 | MSVOA_L | VL038602.D | 0.5 | 03142022T18:52:00 | VL038645.D | 0.472 |
| 0.030038864 | 2.602 | MSVOA_L | VL038602.D | 0.39 | 03142022T18:52:00 | VL038645.D | 0.412 |
| 0.044355712 | 2.602 | MSVOA_L | VL038602.D | 0.33 | 03142022T18:52:00 | VL038645.D | 0.357 |
| 0.038739676 | 2.602 | MSVOA_L | VL038602.D | 0.35 | 03142022T18:52:00 | VL038645.D | 0.349 |
| 0.032348107 | 2.602 | MSVOA_L | VL038602.D | 0.48 | 03142022T18:52:00 | VL038645.D | 0.5 |
| 0.04092432 | 2.602 | MSVOA_L | VL038602.D | 0.37 | 03142022T18:52:00 | VL038645.D | 0.411 |
| 0.026260236 | 2.602 | MSVOA_L | VL038602.D | 0.47 | 03142022T18:52:00 | VL038645.D | 0.44 |
| 0.033337666 | 2.602 | MSVOA_L | VL038602.D | 0.4 | 03142022T18:52:00 | VL038645.D | 0.387 |
| 0.079104967 | 2.602 | MSVOA_L | VL038602.D | 0.76 | 03142022T18:52:00 | VL038645.D | 0.762 |
| 0.032870389 | 2.602 | MSVOA_L | VL038602.D | 0.31 | 03142022T18:52:00 | VL038645.D | 0.334 |
| 0.045944169 | 2.602 | MSVOA_L | VL038602.D | 0.41 | 03142022T18:52:00 | VL038645.D | 0.418 |
| 0.070735069 | 2.602 | MSVOA_L | VL038602.D | 0.49 | 03142022T18:52:00 | VL038645.D | 0.479 |
| 0.02880907 | 2.602 | MSVOA_L | VL038602.D | 0.25 | 03142022T18:52:00 | VL038645.D | 0.289 |
| 0.057070096 | 2.602 | MSVOA_L | VL038602.D | 0.14 | 03142022T18:52:00 | VL038645.D | 0.074 |
| 0.031520826 | 2.602 | MSVOA_L | VL038602.D | 0.35 | 03142022T18:52:00 | VL038645.D | 0.366 |
| 0.029937087 | 2.602 | MSVOA_L | VL038602.D | 0.37 | 03142022T18:52:00 | VL038645.D | 0.365 |
| 0.045207623 | 2.602 | MSVOA_L | VL038602.D | 0.36 | 03142022T18:52:00 | VL038645.D | 0.368 |
| 0.032938073 | 2.602 | MSVOA_L | VL038602.D | 0.35 | 03142022T18:52:00 | VL038645.D | 0.366 |
| 0.05526165 | 2.602 | MSVOA_L | VL038602.D | 0.44 | 03142022T18:52:00 | VL038645.D | 0.443 |
| 0.035804795 | 2.602 | MSVOA_L | VL038602.D | 0.38 | 03142022T18:52:00 | VL038645.D | 0.392 |
| 0.042061661 | 2.602 | MSVOA_L | VL038602.D | 0.26 | 03142022T18:52:00 | VL038645.D | 0.275 |
| 0.022957116 | 2.602 | MSVOA_L | VL038602.D | 0.27 | 03142022T18:52:00 | VL038645.D | 0.29 |
| 0.072141412 | 2.602 | MSVOA_L | VL038602.D | 0.44 | 03142022T18:52:00 | VL038645.D | 0.459 |
| 0.035649626 | 2.602 | MSVOA_L | VL038602.D | 0.37 | 03142022T18:52:00 | VL038645.D | 0.405 |
| 0.005558402 | 2.602 | MSVOA_L | VL038599.D | 0.03 | 03142022T17:01:00 | VL038658.D | 0.031 |
| 0.047138758 | 2.602 | MSVOA_L | VL038602.D | 0.3 | 03142022T18:52:00 | VL038645.D | 0.324 |
| 0.042 | 2.602 | MSVOA_L | VL038602.D | 0.31 | 03142022T18:52:00 | VL038645.D | 0.332 |
| 0.07120086 | 2.602 | MSVOA_L | VL038602.D | 0.4 | 03142022T18:52:00 | VL038645.D | 0.396 |
| 0.006363634 | 2.602 | MSVOA_L | VL038599.D | 0.03 | 03142022T17:01:00 | VL038658.D | 0.035 |
| 0.060517215 | 2.602 | MSVOA_L | VL038602.D | 0.46 | 03142022T18:52:00 | VL038645.D | 0.472 |
| 0.058559372 | 2.602 | MSVOA_L | VL038602.D | 0.4 | 03142022T18:52:00 | VL038645.D | 0.389 |
| 0.00522135 | 2.602 | MSVOA_L | VL038599.D | 0.03 | 03142022T17:01:00 | VL038658.D | 0.031 |
| 0.105747594 | 2.998 | MSVOA_L | VL040210.D | 0.438 | 02222023T00:52:00 | VL040220.D | 0.43 |

| Adate2 | Datafile3 | Concentration3 | Adate3 | Datafile4 | Concentration4 | Adate4 | Datafile5 |
|---|---|---|---|---|---|---|---|
| 03182022T03:39:00 | VL039242.D | 0.45 | 06082022T19:44:00 | VL039436.D | 0.45 | 07062022T02:26:00 | VL039568.D |
| 03212022T20:11:00 | VL039329.D | 0.036 | 06222022T20:53:00 | VL039439.D | 0.033 | 07062022T09:13:00 | VL039570.D |
| 03212022T20:11:00 | VL039329.D | 0.029 | 06222022T20:53:00 | VL039439.D | 0.035 | 07062022T09:13:00 | VL039570.D |
| 03182022T03:39:00 | VL039242.D | 0.417 | 06082022T19:44:00 | VL039436.D | 0.445 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.615 | 06082022T19:44:00 | VL039436.D | 0.498 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.493 | 06082022T19:44:00 | VL039436.D | 0.545 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.594 | 06082022T19:44:00 | VL039436.D | 0.485 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.318 | 06082022T19:44:00 | VL039436.D | 0.328 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.389 | 06082022T19:44:00 | VL039436.D | 0.387 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.392 | 06082022T19:44:00 | VL039436.D | 0.391 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.409 | 06082022T19:44:00 | VL039436.D | 0.393 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.494 | 06082022T19:44:00 | VL039436.D | 0.435 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.404 | 06082022T19:44:00 | VL039436.D | 0.451 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.421 | 06082022T19:44:00 | VL039436.D | 0.397 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.583 | 06082022T19:44:00 | VL039436.D | 0.486 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.409 | 06082022T19:44:00 | VL039436.D | 0.465 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.392 | 06082022T19:44:00 | VL039436.D | 0.41 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.454 | 06082022T19:44:00 | VL039436.D | 0.535 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.37 | 06082022T19:44:00 | VL039436.D | 0.425 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.438 | 06082022T19:44:00 | VL039436.D | 0.482 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.415 | 06082022T19:44:00 | VL039436.D | 0.401 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.309 | 06082022T19:44:00 | VL039436.D | 0.31 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.391 | 06082022T19:44:00 | VL039436.D | 0.393 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.371 | 06082022T19:44:00 | VL039436.D | 0.372 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.649 | 06082022T19:44:00 | VL039436.D | 0.621 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.58 | 06082022T19:44:00 | VL039436.D | 0.45 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.391 | 06082022T19:44:00 | VL039436.D | 0.429 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.328 | 06082022T19:44:00 | VL039436.D | 0.438 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.398 | 06082022T19:44:00 | VL039436.D | 0.395 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.526 | 06082022T19:44:00 | VL039436.D | 0.475 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.335 | 06082022T19:44:00 | VL039436.D | 0.322 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.535 | 06082022T19:44:00 | VL039436.D | 0.503 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.494 | 06082022T19:44:00 | VL039436.D | 0.389 | 07062022T02:26:00 | VL039568.D |
| 03212022T20:11:00 | VL039329.D | 0.028 | 06222022T20:53:00 | VL039439.D | 0.03 | 07062022T09:13:00 | VL039570.D |
| 03182022T03:39:00 | VL039242.D | 0.418 | 06082022T19:44:00 | VL039436.D | 0.473 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.489 | 06082022T19:44:00 | VL039436.D | 0.483 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.595 | 06082022T19:44:00 | VL039436.D | 0.52 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.453 | 06082022T19:44:00 | VL039436.D | 0.469 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.5 | 06082022T19:44:00 | VL039436.D | 0.482 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.403 | 06082022T19:44:00 | VL039436.D | 0.434 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.315 | 06082022T19:44:00 | VL039436.D | 0.327 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.428 | 06082022T19:44:00 | VL039436.D | 0.512 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.359 | 06082022T19:44:00 | VL039436.D | 0.37 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.618 | 06082022T19:44:00 | VL039436.D | 0.675 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.551 | 06082022T19:44:00 | VL039436.D | 0.51 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.376 | 06082022T19:44:00 | VL039436.D | 0.441 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.374 | 06082022T19:44:00 | VL039436.D | 0.381 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.33 | 06082022T19:44:00 | VL039436.D | 0.41 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.444 | 06082022T19:44:00 | VL039436.D | 0.472 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.394 | 06082022T19:44:00 | VL039436.D | 0.47 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.504 | 06082022T19:44:00 | VL039436.D | 0.465 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.425 | 06082022T19:44:00 | VL039436.D | 0.416 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.815 | 06082022T19:44:00 | VL039436.D | 0.805 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.347 | 06082022T19:44:00 | VL039436.D | 0.361 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.492 | 06082022T19:44:00 | VL039436.D | 0.452 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.684 | 06082022T19:44:00 | VL039436.D | 0.578 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.282 | 06082022T19:44:00 | VL039436.D | 0.302 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.155 | 06082022T19:44:00 | VL039436.D | 0.143 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.39 | 06082022T19:44:00 | VL039436.D | 0.374 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.394 | 06082022T19:44:00 | VL039436.D | 0.397 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.421 | 06082022T19:44:00 | VL039436.D | 0.403 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.378 | 06082022T19:44:00 | VL039436.D | 0.388 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.435 | 06082022T19:44:00 | VL039436.D | 0.521 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.411 | 06082022T19:44:00 | VL039436.D | 0.406 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.345 | 06082022T19:44:00 | VL039436.D | 0.302 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.309 | 06082022T19:44:00 | VL039436.D | 0.279 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.655 | 06082022T19:44:00 | VL039436.D | 0.505 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.403 | 06082022T19:44:00 | VL039436.D | 0.388 | 07062022T02:26:00 | VL039568.D |
| 03212022T20:11:00 | VL039329.D | 0.036 | 06222022T20:53:00 | VL039439.D | 0.034 | 07062022T09:13:00 | VL039570.D |
| 03182022T03:39:00 | VL039242.D | 0.346 | 06082022T19:44:00 | VL039436.D | 0.38 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.341 | 06082022T19:44:00 | VL039436.D | 0.37 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.64 | 06082022T19:44:00 | VL039436.D | 0.494 | 07062022T02:26:00 | VL039568.D |
| 03212022T20:11:00 | VL039329.D | 0.038 | 06222022T20:53:00 | VL039439.D | 0.034 | 07062022T09:13:00 | VL039570.D |
| 03182022T03:39:00 | VL039242.D | 0.596 | 06082022T19:44:00 | VL039436.D | 0.492 | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.418 | 06082022T19:44:00 | VL039436.D | 0.437 | 07062022T02:26:00 | VL039568.D |
| 03212022T20:11:00 | VL039329.D | 0.043 | 06222022T20:53:00 | VL039439.D | 0.036 | 07062022T09:13:00 | VL039570.D |
| 02232023T13:12:00 | VL040329.D | 0.51 | 04102023T17:39:00 | VL040349.D | 0.633 | 04122023T23:23:00 | VL040559.D |

| Concentration5 | Adate5 | Datafile6 | Concentration6 | Adate6 | Datafile7 | Concentration7 | Adate7 |
|---|---|---|---|---|---|---|---|
| 0.433 | 08182022T21:04:00 | VL039600.D | 0.463 | 08262022T12:33:00 | VL039709.D | 0.402 | 10102022T23:30:00 |
| 0.03 | 08182022T22:24:00 | VL039586.D | 0.031 | 08252022T20:23:00 | VL039711.D | 0.03 | 10112022T00:45:00 |
| 0.03 | 08182022T22:24:00 | VL039586.D | 0.029 | 08252022T20:23:00 | VL039711.D | 0.03 | 10112022T00:45:00 |
| 0.404 | 08182022T21:04:00 | VL039600.D | 0.424 | 08262022T12:33:00 | VL039709.D | 0.412 | 10102022T23:30:00 |
| 0.448 | 08182022T21:04:00 | VL039600.D | 0.454 | 08262022T12:33:00 | VL039709.D | 0.438 | 10102022T23:30:00 |
| 0.426 | 08182022T21:04:00 | VL039600.D | 0.451 | 08262022T12:33:00 | VL039709.D | 0.445 | 10102022T23:30:00 |
| 0.394 | 08182022T21:04:00 | VL039600.D | 0.387 | 08262022T12:33:00 | VL039709.D | 0.427 | 10102022T23:30:00 |
| 0.314 | 08182022T21:04:00 | VL039600.D | 0.367 | 08262022T12:33:00 | VL039709.D | 0.373 | 10102022T23:30:00 |
| 0.342 | 08182022T21:04:00 | VL039600.D | 0.389 | 08262022T12:33:00 | VL039709.D | 0.389 | 10102022T23:30:00 |
| 0.361 | 08182022T21:04:00 | VL039600.D | 0.402 | 08262022T12:33:00 | VL039709.D | 0.375 | 10102022T23:30:00 |
| 0.408 | 08182022T21:04:00 | VL039600.D | 0.431 | 08262022T12:33:00 | VL039709.D | 0.448 | 10102022T23:30:00 |
| 0.411 | 08182022T21:04:00 | VL039600.D | 0.455 | 08262022T12:33:00 | VL039709.D | 0.418 | 10102022T23:30:00 |
| 0.444 | 08182022T21:04:00 | VL039600.D | 0.429 | 08262022T12:33:00 | VL039709.D | 0.373 | 10102022T23:30:00 |
| 0.331 | 08182022T21:04:00 | VL039600.D | 0.357 | 08262022T12:33:00 | VL039709.D | 0.342 | 10102022T23:30:00 |
| 0.405 | 08182022T21:04:00 | VL039600.D | 0.449 | 08262022T12:33:00 | VL039709.D | 0.422 | 10102022T23:30:00 |
| 0.368 | 08182022T21:04:00 | VL039600.D | 0.414 | 08262022T12:33:00 | VL039709.D | 0.399 | 10102022T23:30:00 |
| 0.404 | 08182022T21:04:00 | VL039600.D | 0.384 | 08262022T12:33:00 | VL039709.D | 0.439 | 10102022T23:30:00 |
| 0.373 | 08182022T21:04:00 | VL039600.D | 0.341 | 08262022T12:33:00 | VL039709.D | 0.418 | 10102022T23:30:00 |
| 0.348 | 08182022T21:04:00 | VL039600.D | 0.379 | 08262022T12:33:00 | VL039709.D | 0.392 | 10102022T23:30:00 |
| 0.314 | 08182022T21:04:00 | VL039600.D | 0.451 | 08262022T12:33:00 | VL039709.D | 0.354 | 10102022T23:30:00 |
| 0.312 | 08182022T21:04:00 | VL039600.D | 0.359 | 08262022T12:33:00 | VL039709.D | 0.348 | 10102022T23:30:00 |
| 0.27 | 08182022T21:04:00 | VL039600.D | 0.294 | 08262022T12:33:00 | VL039709.D | 0.326 | 10102022T23:30:00 |
| 0.284 | 08182022T21:04:00 | VL039600.D | 0.348 | 08262022T12:33:00 | VL039709.D | 0.355 | 10102022T23:30:00 |
| 0.322 | 08182022T21:04:00 | VL039600.D | 0.335 | 08262022T12:33:00 | VL039709.D | 0.32 | 10102022T23:30:00 |
| 0.363 | 08182022T21:04:00 | VL039600.D | 0.484 | 08262022T12:33:00 | VL039709.D | 0.5 | 10102022T23:30:00 |
| 0.418 | 08182022T21:04:00 | VL039600.D | 0.459 | 08262022T12:33:00 | VL039709.D | 0.379 | 10102022T23:30:00 |
| 0.345 | 08182022T21:04:00 | VL039600.D | 0.376 | 08262022T12:33:00 | VL039709.D | 0.398 | 10102022T23:30:00 |
| 0.394 | 08182022T21:04:00 | VL039600.D | 0.336 | 08262022T12:33:00 | VL039709.D | 0.356 | 10102022T23:30:00 |
| 0.382 | 08182022T21:04:00 | VL039600.D | 0.367 | 08262022T12:33:00 | VL039709.D | 0.377 | 10102022T23:30:00 |
| 0.408 | 08182022T21:04:00 | VL039600.D | 0.441 | 08262022T12:33:00 | VL039709.D | 0.388 | 10102022T23:30:00 |
| 0.305 | 08182022T21:04:00 | VL039600.D | 0.303 | 08262022T12:33:00 | VL039709.D | 0.293 | 10102022T23:30:00 |
| 0.364 | 08182022T21:04:00 | VL039600.D | 0.494 | 08262022T12:33:00 | VL039709.D | 0.464 | 10102022T23:30:00 |
| 0.399 | 08182022T21:04:00 | VL039600.D | 0.268 | 08262022T12:33:00 | VL039709.D | 0.332 | 10102022T23:30:00 |
| 0.03 | 08182022T22:24:00 | VL039586.D | 0.027 | 08252022T20:23:00 | VL039711.D | 0.03 | 10112022T00:45:00 |
| 0.431 | 08182022T21:04:00 | VL039600.D | 0.466 | 08262022T12:33:00 | VL039709.D | 0.46 | 10102022T23:30:00 |
| 0.456 | 08182022T21:04:00 | VL039600.D | 0.504 | 08262022T12:33:00 | VL039709.D | 0.446 | 10102022T23:30:00 |
| 0.462 | 08182022T21:04:00 | VL039600.D | 0.504 | 08262022T12:33:00 | VL039709.D | 0.531 | 10102022T23:30:00 |
| 0.423 | 08182022T21:04:00 | VL039600.D | 0.46 | 08262022T12:33:00 | VL039709.D | 0.411 | 10102022T23:30:00 |
| 0.392 | 08182022T21:04:00 | VL039600.D | 0.472 | 08262022T12:33:00 | VL039709.D | 0.485 | 10102022T23:30:00 |
| 0.36 | 08182022T21:04:00 | VL039600.D | 0.407 | 08262022T12:33:00 | VL039709.D | 0.438 | 10102022T23:30:00 |
| 0.277 | 08182022T21:04:00 | VL039600.D | 0.291 | 08262022T12:33:00 | VL039709.D | 0.284 | 10102022T23:30:00 |
| 0.376 | 08182022T21:04:00 | VL039600.D | 0.395 | 08262022T12:33:00 | VL039709.D | 0.383 | 10102022T23:30:00 |
| 0.339 | 08182022T21:04:00 | VL039600.D | 0.335 | 08262022T12:33:00 | VL039709.D | 0.301 | 10102022T23:30:00 |
| 0.62 | 08182022T21:04:00 | VL039600.D | 0.643 | 08262022T12:33:00 | VL039709.D | 0.694 | 10102022T23:30:00 |
| 0.454 | 08182022T21:04:00 | VL039600.D | 0.508 | 08262022T12:33:00 | VL039709.D | 0.473 | 10102022T23:30:00 |
| 0.341 | 08182022T21:04:00 | VL039600.D | 0.432 | 08262022T12:33:00 | VL039709.D | 0.395 | 10102022T23:30:00 |
| 0.297 | 08182022T21:04:00 | VL039600.D | 0.338 | 08262022T12:33:00 | VL039709.D | 0.334 | 10102022T23:30:00 |
| 0.347 | 08182022T21:04:00 | VL039600.D | 0.382 | 08262022T12:33:00 | VL039709.D | 0.407 | 10102022T23:30:00 |
| 0.447 | 08182022T21:04:00 | VL039600.D | 0.502 | 08262022T12:33:00 | VL039709.D | 0.468 | 10102022T23:30:00 |
| 0.385 | 08182022T21:04:00 | VL039600.D | 0.405 | 08262022T12:33:00 | VL039709.D | 0.435 | 10102022T23:30:00 |
| 0.458 | 08182022T21:04:00 | VL039600.D | 0.434 | 08262022T12:33:00 | VL039709.D | 0.481 | 10102022T23:30:00 |
| 0.361 | 08182022T21:04:00 | VL039600.D | 0.388 | 08262022T12:33:00 | VL039709.D | 0.405 | 10102022T23:30:00 |
| 0.673 | 08182022T21:04:00 | VL039600.D | 0.719 | 08262022T12:33:00 | VL039709.D | 0.688 | 10102022T23:30:00 |
| 0.3 | 08182022T21:04:00 | VL039600.D | 0.323 | 08262022T12:33:00 | VL039709.D | 0.346 | 10102022T23:30:00 |
| 0.337 | 08182022T21:04:00 | VL039600.D | 0.355 | 08262022T12:33:00 | VL039709.D | 0.396 | 10102022T23:30:00 |
| 0.536 | 08182022T21:04:00 | VL039600.D | 0.634 | 08262022T12:33:00 | VL039709.D | 0.499 | 10102022T23:30:00 |
| 0.28 | 08182022T21:04:00 | VL039600.D | 0.302 | 08262022T12:33:00 | VL039709.D | 0.291 | 10102022T23:30:00 |
| 0.158 | 08182022T21:04:00 | VL039600.D | 0.094 | 08262022T12:33:00 | VL039709.D | 0.149 | 10102022T23:30:00 |
| 0.321 | 08182022T21:04:00 | VL039600.D | 0.354 | 08262022T12:33:00 | VL039709.D | 0.358 | 10102022T23:30:00 |
| 0.332 | 08182022T21:04:00 | VL039600.D | 0.338 | 08262022T12:33:00 | VL039709.D | 0.347 | 10102022T23:30:00 |
| 0.315 | 08182022T21:04:00 | VL039600.D | 0.347 | 08262022T12:33:00 | VL039709.D | 0.354 | 10102022T23:30:00 |
| 0.316 | 08182022T21:04:00 | VL039600.D | 0.362 | 08262022T12:33:00 | VL039709.D | 0.358 | 10102022T23:30:00 |
| 0.499 | 08182022T21:04:00 | VL039600.D | 0.578 | 08262022T12:33:00 | VL039709.D | 0.533 | 10102022T23:30:00 |
| 0.359 | 08182022T21:04:00 | VL039600.D | 0.382 | 08262022T12:33:00 | VL039709.D | 0.371 | 10102022T23:30:00 |
| 0.23 | 08182022T21:04:00 | VL039600.D | 0.257 | 08262022T12:33:00 | VL039709.D | 0.278 | 10102022T23:30:00 |
| 0.252 | 08182022T21:04:00 | VL039600.D | 0.252 | 08262022T12:33:00 | VL039709.D | 0.273 | 10102022T23:30:00 |
| 0.384 | 08182022T21:04:00 | VL039600.D | 0.382 | 08262022T12:33:00 | VL039709.D | 0.454 | 10102022T23:30:00 |
| 0.345 | 08182022T21:04:00 | VL039600.D | 0.399 | 08262022T12:33:00 | VL039709.D | 0.371 | 10102022T23:30:00 |
| 0.03 | 08182022T22:24:00 | VL039586.D | 0.038 | 08252022T20:23:00 | VL039711.D | 0.03 | 10112022T00:45:00 |
| 0.299 | 08182022T21:04:00 | VL039600.D | 0.344 | 08262022T12:33:00 | VL039709.D | 0.389 | 10102022T23:30:00 |
| 0.288 | 08182022T21:04:00 | VL039600.D | 0.296 | 08262022T12:33:00 | VL039709.D | 0.33 | 10102022T23:30:00 |
| 0.375 | 08182022T21:04:00 | VL039600.D | 0.466 | 08262022T12:33:00 | VL039709.D | 0.437 | 10102022T23:30:00 |
| 0.03 | 08182022T22:24:00 | VL039586.D | 0.031 | 08252022T20:23:00 | VL039711.D | 0.04 | 10112022T00:45:00 |
| 0.436 | 08182022T21:04:00 | VL039600.D | 0.47 | 08262022T12:33:00 | VL039709.D | 0.385 | 10102022T23:30:00 |
| 0.42 | 08182022T21:04:00 | VL039600.D | 0.483 | 08262022T12:33:00 | VL039709.D | 0.363 | 10102022T23:30:00 |
| 0.03 | 08182022T22:24:00 | VL039586.D | 0.029 | 08252022T20:23:00 | VL039711.D | 0.03 | 10112022T00:45:00 |
| 0.636 | 07272023T03:27:00 | VL040579.D | 0.42 | 07312023T19:20:00 | VL040747.D | 0.607 | 10042023T19:33:00 |

| Datafile8 | Concentration8 | Adate8 | Datafile9 | Concentration9 | Adate9 | Datafile10 | Concentration10 |
|---|---|---|---|---|---|---|---|
| VL040134.D | 0.42 | 01302023T15:54:00 | VL040210.D | 0.383 | 02222023T00:52:00 | VL040220.D | 0.42 |
| VL040136.D | 0.03 | 01302023T17:08:00 | VL040222.D | 0.038 | 02232023T14:26:00 | VL040223.D | 0.033 |
| VL040136.D | 0.03 | 01302023T17:08:00 | VL040222.D | 0.032 | 02232023T14:26:00 | VL040223.D | 0.027 |
| VL040134.D | 0.41 | 01302023T15:54:00 | VL040210.D | 0.395 | 02222023T00:52:00 | VL040220.D | 0.43 |
| VL040134.D | 0.38 | 01302023T15:54:00 | VL040210.D | 0.476 | 02222023T00:52:00 | VL040220.D | 0.47 |
| VL040134.D | 0.38 | 01302023T15:54:00 | VL040210.D | 0.436 | 02222023T00:52:00 | VL040220.D | 0.45 |
| VL040134.D | 0.4 | 01302023T15:54:00 | VL040210.D | 0.452 | 02222023T00:52:00 | VL040220.D | 0.45 |
| VL040134.D | 0.32 | 01302023T15:54:00 | VL040210.D | 0.299 | 02222023T00:52:00 | VL040220.D | 0.32 |
| VL040134.D | 0.37 | 01302023T15:54:00 | VL040210.D | 0.375 | 02222023T00:52:00 | VL040220.D | 0.37 |
| VL040134.D | 0.39 | 01302023T15:54:00 | VL040210.D | 0.38 | 02222023T00:52:00 | VL040220.D | 0.38 |
| VL040134.D | 0.38 | 01302023T15:54:00 | VL040210.D | 0.378 | 02222023T00:52:00 | VL040220.D | 0.43 |
| VL040134.D | 0.4 | 01302023T15:54:00 | VL040210.D | 0.434 | 02222023T00:52:00 | VL040220.D | 0.44 |
| VL040134.D | 0.41 | 01302023T15:54:00 | VL040210.D | 0.432 | 02222023T00:52:00 | VL040220.D | 0.43 |
| VL040134.D | 0.35 | 01302023T15:54:00 | VL040210.D | 0.344 | 02222023T00:52:00 | VL040220.D | 0.34 |
| VL040134.D | 0.43 | 01302023T15:54:00 | VL040210.D | 0.396 | 02222023T00:52:00 | VL040220.D | 0.41 |
| VL040134.D | 0.37 | 01302023T15:54:00 | VL040210.D | 0.395 | 02222023T00:52:00 | VL040220.D | 0.42 |
| VL040134.D | 0.4 | 01302023T15:54:00 | VL040210.D | 0.402 | 02222023T00:52:00 | VL040220.D | 0.4 |
| VL040134.D | 0.41 | 01302023T15:54:00 | VL040210.D | 0.387 | 02222023T00:52:00 | VL040220.D | 0.43 |
| VL040134.D | 0.39 | 01302023T15:54:00 | VL040210.D | 0.352 | 02222023T00:52:00 | VL040220.D | 0.38 |
| VL040134.D | 0.38 | 01302023T15:54:00 | VL040210.D | 0.416 | 02222023T00:52:00 | VL040220.D | 0.44 |
| VL040134.D | 0.36 | 01302023T15:54:00 | VL040210.D | 0.34 | 02222023T00:52:00 | VL040220.D | 0.36 |
| VL040134.D | 0.32 | 01302023T15:54:00 | VL040210.D | 0.318 | 02222023T00:52:00 | VL040220.D | 0.34 |
| VL040134.D | 0.35 | 01302023T15:54:00 | VL040210.D | 0.321 | 02222023T00:52:00 | VL040220.D | 0.36 |
| VL040134.D | 0.36 | 01302023T15:54:00 | VL040210.D | 0.337 | 02222023T00:52:00 | VL040220.D | 0.37 |
| VL040134.D | 0.45 | 01302023T15:54:00 | VL040210.D | 0.482 | 02222023T00:52:00 | VL040220.D | 0.5 |
| VL040134.D | 0.36 | 01302023T15:54:00 | VL040210.D | 0.411 | 02222023T00:52:00 | VL040220.D | 0.45 |
| VL040134.D | 0.38 | 01302023T15:54:00 | VL040210.D | 0.359 | 02222023T00:52:00 | VL040220.D | 0.39 |
| VL040134.D | 0.29 | 01302023T15:54:00 | VL040210.D | 0.311 | 02222023T00:52:00 | VL040220.D | 0.38 |
| VL040134.D | 0.37 | 01302023T15:54:00 | VL040210.D | 0.378 | 02222023T00:52:00 | VL040220.D | 0.38 |
| VL040134.D | 0.37 | 01302023T15:54:00 | VL040210.D | 0.413 | 02222023T00:52:00 | VL040220.D | 0.42 |
| VL040134.D | 0.32 | 01302023T15:54:00 | VL040210.D | 0.32 | 02222023T00:52:00 | VL040220.D | 0.33 |
| VL040134.D | 0.4 | 01302023T15:54:00 | VL040210.D | 0.408 | 02222023T00:52:00 | VL040220.D | 0.49 |
| VL040134.D | 0.31 | 01302023T15:54:00 | VL040210.D | 0.391 | 02222023T00:52:00 | VL040220.D | 0.37 |
| VL040136.D | 0.03 | 01302023T17:08:00 | VL040222.D | 0.033 | 02232023T14:26:00 | VL040223.D | 0.037 |
| VL040134.D | 0.44 | 01302023T15:54:00 | VL040210.D | 0.414 | 02222023T00:52:00 | VL040220.D | 0.45 |
| VL040134.D | 0.43 | 01302023T15:54:00 | VL040210.D | 0.474 | 02222023T00:52:00 | VL040220.D | 0.46 |
| VL040134.D | 0.37 | 01302023T15:54:00 | VL040210.D | 0.416 | 02222023T00:52:00 | VL040220.D | 0.44 |
| VL040134.D | 0.47 | 01302023T15:54:00 | VL040210.D | 0.445 | 02222023T00:52:00 | VL040220.D | 0.42 |
| VL040134.D | 0.46 | 01302023T15:54:00 | VL040210.D | 0.443 | 02222023T00:52:00 | VL040220.D | 0.47 |
| VL040134.D | 0.38 | 01302023T15:54:00 | VL040210.D | 0.435 | 02222023T00:52:00 | VL040220.D | 0.38 |
| VL040134.D | 0.33 | 01302023T15:54:00 | VL040210.D | 0.284 | 02222023T00:52:00 | VL040220.D | 0.34 |
| VL040134.D | 0.49 | 01302023T15:54:00 | VL040210.D | 0.521 | 02222023T00:52:00 | VL040220.D | 0.34 |
| VL040134.D | 0.35 | 01302023T15:54:00 | VL040210.D | 0.343 | 02222023T00:52:00 | VL040220.D | 0.34 |
| VL040134.D | 0.48 | 01302023T15:54:00 | VL040210.D | 0.497 | 02222023T00:52:00 | VL040220.D | 0.49 |
| VL040134.D | 0.43 | 01302023T15:54:00 | VL040210.D | 0.431 | 02222023T00:52:00 | VL040220.D | 0.46 |
| VL040134.D | 0.39 | 01302023T15:54:00 | VL040210.D | 0.398 | 02222023T00:52:00 | VL040220.D | 0.42 |
| VL040134.D | 0.36 | 01302023T15:54:00 | VL040210.D | 0.309 | 02222023T00:52:00 | VL040220.D | 0.33 |
| VL040134.D | 0.34 | 01302023T15:54:00 | VL040210.D | 0.336 | 02222023T00:52:00 | VL040220.D | 0.37 |
| VL040134.D | 0.43 | 01302023T15:54:00 | VL040210.D | 0.421 | 02222023T00:52:00 | VL040220.D | 0.44 |
| VL040134.D | 0.41 | 01302023T15:54:00 | VL040210.D | 0.4 | 02222023T00:52:00 | VL040220.D | 0.41 |
| VL040134.D | 0.4 | 01302023T15:54:00 | VL040210.D | 0.479 | 02222023T00:52:00 | VL040220.D | 0.48 |
| VL040134.D | 0.38 | 01302023T15:54:00 | VL040210.D | 0.361 | 02222023T00:52:00 | VL040220.D | 0.4 |
| VL040134.D | 0.71 | 01302023T15:54:00 | VL040210.D | 0.699 | 02222023T00:52:00 | VL040220.D | 0.75 |
| VL040134.D | 0.35 | 01302023T15:54:00 | VL040210.D | 0.314 | 02222023T00:52:00 | VL040220.D | 0.35 |
| VL040134.D | 0.38 | 01302023T15:54:00 | VL040210.D | 0.421 | 02222023T00:52:00 | VL040220.D | 0.41 |
| VL040134.D | 0.44 | 01302023T15:54:00 | VL040210.D | 0.558 | 02222023T00:52:00 | VL040220.D | 0.57 |
| VL040134.D | 0.27 | 01302023T15:54:00 | VL040210.D | 0.246 | 02222023T00:52:00 | VL040220.D | 0.27 |
| VL040134.D | 0.19 | 01302023T15:54:00 | VL040210.D | 0.116 | 02222023T00:52:00 | VL040220.D | 0.21 |
| VL040134.D | 0.34 | 01302023T15:54:00 | VL040210.D | 0.349 | 02222023T00:52:00 | VL040220.D | 0.35 |
| VL040134.D | 0.34 | 01302023T15:54:00 | VL040210.D | 0.354 | 02222023T00:52:00 | VL040220.D | 0.36 |
| VL040134.D | 0.34 | 01302023T15:54:00 | VL040210.D | 0.331 | 02222023T00:52:00 | VL040220.D | 0.36 |
| VL040134.D | 0.33 | 01302023T15:54:00 | VL040210.D | 0.329 | 02222023T00:52:00 | VL040220.D | 0.34 |
| VL040134.D | 0.42 | 01302023T15:54:00 | VL040210.D | 0.432 | 02222023T00:52:00 | VL040220.D | 0.43 |
| VL040134.D | 0.36 | 01302023T15:54:00 | VL040210.D | 0.352 | 02222023T00:52:00 | VL040220.D | 0.37 |
| VL040134.D | 0.29 | 01302023T15:54:00 | VL040210.D | 0.262 | 02222023T00:52:00 | VL040220.D | 0.27 |
| VL040134.D | 0.3 | 01302023T15:54:00 | VL040210.D | 0.292 | 02222023T00:52:00 | VL040220.D | 0.3 |
| VL040134.D | 0.4 | 01302023T15:54:00 | VL040210.D | 0.395 | 02222023T00:52:00 | VL040220.D | 0.44 |
| VL040134.D | 0.35 | 01302023T15:54:00 | VL040210.D | 0.349 | 02222023T00:52:00 | VL040220.D | 0.36 |
| VL040136.D | 0.03 | 01302023T17:08:00 | VL040222.D | 0.029 | 02232023T14:26:00 | VL040223.D | 0.031 |
| VL040134.D | 0.42 | 01302023T15:54:00 | VL040210.D | 0.368 | 02222023T00:52:00 | VL040220.D | 0.42 |
| VL040134.D | 0.34 | 01302023T15:54:00 | VL040210.D | 0.297 | 02222023T00:52:00 | VL040220.D | 0.33 |
| VL040134.D | 0.35 | 01302023T15:54:00 | VL040210.D | 0.397 | 02222023T00:52:00 | VL040220.D | 0.42 |
| VL040136.D | 0.03 | 01302023T17:08:00 | VL040222.D | 0.027 | 02232023T14:26:00 | VL040223.D | 0.028 |
| VL040134.D | 0.4 | 01302023T15:54:00 | VL040210.D | 0.451 | 02222023T00:52:00 | VL040220.D | 0.45 |
| VL040134.D | 0.39 | 01302023T15:54:00 | VL040210.D | 0.438 | 02222023T00:52:00 | VL040220.D | 0.4 |
| VL040136.D | 0.03 | 01302023T17:08:00 | VL040222.D | 0.033 | 02232023T14:26:00 | VL040223.D | 0.038 |
| VL040805.D | 0.675 | 10252023T18:12:00 | | | | | |

| Adate10 | Datafile11 | Concentration11 | Adate11 | Datafile12 | Concentration12 | Adate12 | Datafile13 |
|---|---|---|---|---|---|---|---|
| 02232023T13:12:00 | VL040329.D | 0.45 | 04102023T17:39:00 | VL040349.D | 0.434 | 04122023T23:23:00 | VL040559.D |
| 02232023T15:04:00 | VL040332.D | 0.028 | 04102023T19:33:00 | VL040346.D | 0.027 | 04122023T19:50:00 | VL040576.D |
| 02232023T15:04:00 | VL040332.D | 0.023 | 04102023T19:33:00 | VL040346.D | 0.03 | 04122023T19:50:00 | VL040576.D |
| 02232023T13:12:00 | VL040329.D | 0.41 | 04102023T17:39:00 | VL040349.D | 0.403 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.42 | 04102023T17:39:00 | VL040349.D | 0.429 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.43 | 04102023T17:39:00 | VL040349.D | 0.4 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.44 | 04102023T17:39:00 | VL040349.D | 0.419 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.3 | 04102023T17:39:00 | VL040349.D | 0.302 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.34 | 04102023T17:39:00 | VL040349.D | 0.362 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.37 | 04102023T17:39:00 | VL040349.D | 0.398 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.38 | 04102023T17:39:00 | VL040349.D | 0.402 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.45 | 04102023T17:39:00 | VL040349.D | 0.427 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.41 | 04102023T17:39:00 | VL040349.D | 0.385 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.33 | 04102023T17:39:00 | VL040349.D | 0.311 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.38 | 04102023T17:39:00 | VL040349.D | 0.448 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.38 | 04102023T17:39:00 | VL040349.D | 0.392 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.39 | 04102023T17:39:00 | VL040349.D | 0.402 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.33 | 04102023T17:39:00 | VL040349.D | 0.33 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.35 | 04102023T17:39:00 | VL040349.D | 0.356 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.45 | 04102023T17:39:00 | VL040349.D | 0.451 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.32 | 04102023T17:39:00 | VL040349.D | 0.31 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.28 | 04102023T17:39:00 | VL040349.D | 0.29 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.32 | 04102023T17:39:00 | VL040349.D | 0.303 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.33 | 04102023T17:39:00 | VL040349.D | 0.339 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.58 | 04102023T17:39:00 | VL040349.D | 0.582 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.39 | 04102023T17:39:00 | VL040349.D | 0.402 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.37 | 04102023T17:39:00 | VL040349.D | 0.365 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.37 | 04102023T17:39:00 | VL040349.D | 0.421 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.38 | 04102023T17:39:00 | VL040349.D | 0.397 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.41 | 04102023T17:39:00 | VL040349.D | 0.415 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.31 | 04102023T17:39:00 | VL040349.D | 0.337 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.44 | 04102023T17:39:00 | VL040349.D | 0.51 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.34 | 04102023T17:39:00 | VL040349.D | 0.342 | 04122023T23:23:00 | VL040559.D |
| 02232023T15:04:00 | VL040332.D | 0.028 | 04102023T19:33:00 | VL040346.D | 0.025 | 04122023T19:50:00 | VL040576.D |
| 02232023T13:12:00 | VL040329.D | 0.45 | 04102023T17:39:00 | VL040349.D | 0.433 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.45 | 04102023T17:39:00 | VL040349.D | 0.453 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.4 | 04102023T17:39:00 | VL040349.D | 0.487 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.43 | 04102023T17:39:00 | VL040349.D | 0.456 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.47 | 04102023T17:39:00 | VL040349.D | 0.455 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.38 | 04102023T17:39:00 | VL040349.D | 0.376 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.29 | 04102023T17:39:00 | VL040349.D | 0.287 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.29 | 04102023T17:39:00 | VL040349.D | 0.35 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.35 | 04102023T17:39:00 | VL040349.D | 0.339 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.51 | 04102023T17:39:00 | VL040349.D | 0.483 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.46 | 04102023T17:39:00 | VL040349.D | 0.467 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.39 | 04102023T17:39:00 | VL040349.D | 0.394 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.32 | 04102023T17:39:00 | VL040349.D | 0.31 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.33 | 04102023T17:39:00 | VL040349.D | 0.336 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.45 | 04102023T17:39:00 | VL040349.D | 0.441 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.37 | 04102023T17:39:00 | VL040349.D | 0.365 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.47 | 04102023T17:39:00 | VL040349.D | 0.442 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.38 | 04102023T17:39:00 | VL040349.D | 0.363 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.66 | 04102023T17:39:00 | VL040349.D | 0.659 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.31 | 04102023T17:39:00 | VL040349.D | 0.305 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.41 | 04102023T17:39:00 | VL040349.D | 0.362 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.47 | 04102023T17:39:00 | VL040349.D | 0.533 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.26 | 04102023T17:39:00 | VL040349.D | 0.261 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.21 | 04102023T17:39:00 | VL040349.D | 0.19 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.33 | 04102023T17:39:00 | VL040349.D | 0.334 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.35 | 04102023T17:39:00 | VL040349.D | 0.345 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.31 | 04102023T17:39:00 | VL040349.D | 0.327 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.32 | 04102023T17:39:00 | VL040349.D | 0.314 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.42 | 04102023T17:39:00 | VL040349.D | 0.465 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.35 | 04102023T17:39:00 | VL040349.D | 0.335 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.26 | 04102023T17:39:00 | VL040349.D | 0.257 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.27 | 04102023T17:39:00 | VL040349.D | 0.256 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.46 | 04102023T17:39:00 | VL040349.D | 0.427 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.34 | 04102023T17:39:00 | VL040349.D | 0.327 | 04122023T23:23:00 | VL040559.D |
| 02232023T15:04:00 | VL040332.D | 0.022 | 04102023T19:33:00 | VL040346.D | 0.029 | 04122023T19:50:00 | VL040576.D |
| 02232023T13:12:00 | VL040329.D | 0.3 | 04102023T17:39:00 | VL040349.D | 0.347 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.29 | 04102023T17:39:00 | VL040349.D | 0.291 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.37 | 04102023T17:39:00 | VL040349.D | 0.391 | 04122023T23:23:00 | VL040559.D |
| 02232023T15:04:00 | VL040332.D | 0.029 | 04102023T19:33:00 | VL040346.D | 0.028 | 04122023T19:50:00 | VL040576.D |
| 02232023T13:12:00 | VL040329.D | 0.45 | 04102023T17:39:00 | VL040349.D | 0.47 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.37 | 04102023T17:39:00 | VL040349.D | 0.58 | 04122023T23:23:00 | VL040559.D |
| 02232023T15:04:00 | VL040332.D | 0.024 | 04102023T19:33:00 | VL040346.D | 0.029 | 04122023T19:50:00 | VL040576.D |

| Concentration13 | Adate13 | Datafile14 | Concentration14 | Adate14 | Datafile15 | Concentration15 | Adate15 |
|---|---|---|---|---|---|---|---|
| 0.48 | 07272023T03:27:00 | VL040579.D | 0.42 | 07312023T19:20:00 | VL040747.D | 0.488 | 10042023T19:33:00 |
| 0.03 | 07312023T17:18:00 | VL040581.D | 0.031 | 07312023T20:41:00 | VL040772.D | 0.035 | 10122023T01:48:00 |
| 0.031 | 07312023T17:18:00 | VL040581.D | 0.026 | 07312023T20:41:00 | VL040772.D | 0.029 | 10122023T01:48:00 |
| 0.459 | 07272023T03:27:00 | VL040579.D | 0.36 | 07312023T19:20:00 | VL040747.D | 0.405 | 10042023T19:33:00 |
| 0.573 | 07272023T03:27:00 | VL040579.D | 0.5 | 07312023T19:20:00 | VL040747.D | 0.557 | 10042023T19:33:00 |
| 0.535 | 07272023T03:27:00 | VL040579.D | 0.43 | 07312023T19:20:00 | VL040747.D | 0.527 | 10042023T19:33:00 |
| 0.527 | 07272023T03:27:00 | VL040579.D | 0.42 | 07312023T19:20:00 | VL040747.D | 0.481 | 10042023T19:33:00 |
| 0.33 | 07272023T03:27:00 | VL040579.D | 0.23 | 07312023T19:20:00 | VL040747.D | 0.305 | 10042023T19:33:00 |
| 0.389 | 07272023T03:27:00 | VL040579.D | 0.3 | 07312023T19:20:00 | VL040747.D | 0.361 | 10042023T19:33:00 |
| 0.425 | 07272023T03:27:00 | VL040579.D | 0.32 | 07312023T19:20:00 | VL040747.D | 0.359 | 10042023T19:33:00 |
| 0.442 | 07272023T03:27:00 | VL040579.D | 0.36 | 07312023T19:20:00 | VL040747.D | 0.45 | 10042023T19:33:00 |
| 0.519 | 07272023T03:27:00 | VL040579.D | 0.41 | 07312023T19:20:00 | VL040747.D | 0.426 | 10042023T19:33:00 |
| 0.452 | 07272023T03:27:00 | VL040579.D | 0.36 | 07312023T19:20:00 | VL040747.D | 0.42 | 10042023T19:33:00 |
| 0.33 | 07272023T03:27:00 | VL040579.D | 0.26 | 07312023T19:20:00 | VL040747.D | 0.321 | 10042023T19:33:00 |
| 0.412 | 07272023T03:27:00 | VL040579.D | 0.41 | 07312023T19:20:00 | VL040747.D | 0.466 | 10042023T19:33:00 |
| 0.388 | 07272023T03:27:00 | VL040579.D | 0.33 | 07312023T19:20:00 | VL040747.D | 0.412 | 10042023T19:33:00 |
| 0.438 | 07272023T03:27:00 | VL040579.D | 0.36 | 07312023T19:20:00 | VL040747.D | 0.382 | 10042023T19:33:00 |
| 0.373 | 07272023T03:27:00 | VL040579.D | 0.29 | 07312023T19:20:00 | VL040747.D | 0.257 | 10042023T19:33:00 |
| 0.398 | 07272023T03:27:00 | VL040579.D | 0.27 | 07312023T19:20:00 | VL040747.D | 0.335 | 10042023T19:33:00 |
| 0.448 | 07272023T03:27:00 | VL040579.D | 0.37 | 07312023T19:20:00 | VL040747.D | 0.443 | 10042023T19:33:00 |
| 0.35 | 07272023T03:27:00 | VL040579.D | 0.27 | 07312023T19:20:00 | VL040747.D | 0.325 | 10042023T19:33:00 |
| 0.303 | 07272023T03:27:00 | VL040579.D | 0.22 | 07312023T19:20:00 | VL040747.D | 0.283 | 10042023T19:33:00 |
| 0.32 | 07272023T03:27:00 | VL040579.D | 0.23 | 07312023T19:20:00 | VL040747.D | 0.317 | 10042023T19:33:00 |
| 0.348 | 07272023T03:27:00 | VL040579.D | 0.27 | 07312023T19:20:00 | VL040747.D | 0.302 | 10042023T19:33:00 |
| 0.674 | 07272023T03:27:00 | VL040579.D | 0.48 | 07312023T19:20:00 | VL040747.D | 0.65 | 10042023T19:33:00 |
| 0.436 | 07272023T03:27:00 | VL040579.D | 0.37 | 07312023T19:20:00 | VL040747.D | 0.511 | 10042023T19:33:00 |
| 0.397 | 07272023T03:27:00 | VL040579.D | 0.3 | 07312023T19:20:00 | VL040747.D | 0.386 | 10042023T19:33:00 |
| 0.425 | 07272023T03:27:00 | VL040579.D | 0.34 | 07312023T19:20:00 | VL040747.D | 0.307 | 10042023T19:33:00 |
| 0.467 | 07272023T03:27:00 | VL040579.D | 0.4 | 07312023T19:20:00 | VL040747.D | 0.409 | 10042023T19:33:00 |
| 0.508 | 07272023T03:27:00 | VL040579.D | 0.42 | 07312023T19:20:00 | VL040747.D | 0.506 | 10042023T19:33:00 |
| 0.352 | 07272023T03:27:00 | VL040579.D | 0.33 | 07312023T19:20:00 | VL040747.D | 0.349 | 10042023T19:33:00 |
| 0.543 | 07272023T03:27:00 | VL040579.D | 0.46 | 07312023T19:20:00 | VL040747.D | 0.496 | 10042023T19:33:00 |
| 0.46 | 07272023T03:27:00 | VL040579.D | 0.42 | 07312023T19:20:00 | VL040747.D | 0.477 | 10042023T19:33:00 |
| 0.036 | 07312023T17:18:00 | VL040581.D | 0.033 | 07312023T20:41:00 | VL040772.D | 0.031 | 10122023T01:48:00 |
| 0.481 | 07272023T03:27:00 | VL040579.D | 0.38 | 07312023T19:20:00 | VL040747.D | 0.489 | 10042023T19:33:00 |
| 0.526 | 07272023T03:27:00 | VL040579.D | 0.45 | 07312023T19:20:00 | VL040747.D | 0.55 | 10042023T19:33:00 |
| 0.516 | 07272023T03:27:00 | VL040579.D | 0.43 | 07312023T19:20:00 | VL040747.D | 0.576 | 10042023T19:33:00 |
| 0.521 | 07272023T03:27:00 | VL040579.D | 0.41 | 07312023T19:20:00 | VL040747.D | 0.501 | 10042023T19:33:00 |
| 0.486 | 07272023T03:27:00 | VL040579.D | 0.39 | 07312023T19:20:00 | VL040747.D | 0.544 | 10042023T19:33:00 |
| 0.405 | 07272023T03:27:00 | VL040579.D | 0.32 | 07312023T19:20:00 | VL040747.D | 0.431 | 10042023T19:33:00 |
| 0.295 | 07272023T03:27:00 | VL040579.D | 0.25 | 07312023T19:20:00 | VL040747.D | 0.298 | 10042023T19:33:00 |
| 0.301 | 07272023T03:27:00 | VL040579.D | 0.21 | 07312023T19:20:00 | VL040747.D | 0.317 | 10042023T19:33:00 |
| 0.403 | 07272023T03:27:00 | VL040579.D | 0.35 | 07312023T19:20:00 | VL040747.D | 0.381 | 10042023T19:33:00 |
| 0.54 | 07272023T03:27:00 | VL040579.D | 0.47 | 07312023T19:20:00 | VL040747.D | 0.562 | 10042023T19:33:00 |
| 0.516 | 07272023T03:27:00 | VL040579.D | 0.46 | 07312023T19:20:00 | VL040747.D | 0.509 | 10042023T19:33:00 |
| 0.424 | 07272023T03:27:00 | VL040579.D | 0.34 | 07312023T19:20:00 | VL040747.D | 0.441 | 10042023T19:33:00 |
| 0.32 | 07272023T03:27:00 | VL040579.D | 0.21 | 07312023T19:20:00 | VL040747.D | 0.299 | 10042023T19:33:00 |
| 0.341 | 07272023T03:27:00 | VL040579.D | 0.25 | 07312023T19:20:00 | VL040747.D | 0.355 | 10042023T19:33:00 |
| 0.466 | 07272023T03:27:00 | VL040579.D | 0.37 | 07312023T19:20:00 | VL040747.D | 0.479 | 10042023T19:33:00 |
| 0.38 | 07272023T03:27:00 | VL040579.D | 0.31 | 07312023T19:20:00 | VL040747.D | 0.465 | 10042023T19:33:00 |
| 0.451 | 07272023T03:27:00 | VL040579.D | 0.43 | 07312023T19:20:00 | VL040747.D | 0.426 | 10042023T19:33:00 |
| 0.379 | 07272023T03:27:00 | VL040579.D | 0.29 | 07312023T19:20:00 | VL040747.D | 0.386 | 10042023T19:33:00 |
| 0.735 | 07272023T03:27:00 | VL040579.D | 0.54 | 07312023T19:20:00 | VL040747.D | 0.682 | 10042023T19:33:00 |
| 0.283 | 07272023T03:27:00 | VL040579.D | 0.23 | 07312023T19:20:00 | VL040747.D | 0.324 | 10042023T19:33:00 |
| 0.468 | 07272023T03:27:00 | VL040579.D | 0.38 | 07312023T19:20:00 | VL040747.D | 0.472 | 10042023T19:33:00 |
| 0.619 | 07272023T03:27:00 | VL040579.D | 0.62 | 07312023T19:20:00 | VL040747.D | 0.625 | 10042023T19:33:00 |
| 0.274 | 07272023T03:27:00 | VL040579.D | 0.19 | 07312023T19:20:00 | VL040747.D | 0.258 | 10042023T19:33:00 |
| 0.107 | 07272023T03:27:00 | VL040579.D | 0.06 | 07312023T19:20:00 | VL040747.D | 0.133 | 10042023T19:33:00 |
| 0.361 | 07272023T03:27:00 | VL040579.D | 0.27 | 07312023T19:20:00 | VL040747.D | 0.343 | 10042023T19:33:00 |
| 0.355 | 07272023T03:27:00 | VL040579.D | 0.27 | 07312023T19:20:00 | VL040747.D | 0.369 | 10042023T19:33:00 |
| 0.355 | 07272023T03:27:00 | VL040579.D | 0.26 | 07312023T19:20:00 | VL040747.D | 0.301 | 10042023T19:33:00 |
| 0.357 | 07272023T03:27:00 | VL040579.D | 0.26 | 07312023T19:20:00 | VL040747.D | 0.313 | 10042023T19:33:00 |
| 0.436 | 07272023T03:27:00 | VL040579.D | 0.34 | 07312023T19:20:00 | VL040747.D | 0.471 | 10042023T19:33:00 |
| 0.393 | 07272023T03:27:00 | VL040579.D | 0.29 | 07312023T19:20:00 | VL040747.D | 0.354 | 10042023T19:33:00 |
| 0.242 | 07272023T03:27:00 | VL040579.D | 0.17 | 07312023T19:20:00 | VL040747.D | 0.266 | 10042023T19:33:00 |
| 0.283 | 07272023T03:27:00 | VL040579.D | 0.23 | 07312023T19:20:00 | VL040747.D | 0.312 | 10042023T19:33:00 |
| 0.539 | 07272023T03:27:00 | VL040579.D | 0.43 | 07312023T19:20:00 | VL040747.D | 0.394 | 10042023T19:33:00 |
| 0.366 | 07272023T03:27:00 | VL040579.D | 0.28 | 07312023T19:20:00 | VL040747.D | 0.381 | 10042023T19:33:00 |
| 0.025 | 07312023T17:18:00 | VL040581.D | 0.028 | 07312023T20:41:00 | VL040772.D | 0.044 | 10122023T01:48:00 |
| 0.353 | 07272023T03:27:00 | VL040579.D | 0.26 | 07312023T19:20:00 | VL040747.D | 0.351 | 10042023T19:33:00 |
| 0.285 | 07272023T03:27:00 | VL040579.D | 0.2 | 07312023T19:20:00 | VL040747.D | 0.288 | 10042023T19:33:00 |
| 0.477 | 07272023T03:27:00 | VL040579.D | 0.4 | 07312023T19:20:00 | VL040747.D | 0.507 | 10042023T19:33:00 |
| 0.027 | 07312023T17:18:00 | VL040581.D | 0.027 | 07312023T20:41:00 | VL040772.D | 0.039 | 10122023T01:48:00 |
| 0.589 | 07272023T03:27:00 | VL040579.D | 0.52 | 07312023T19:20:00 | VL040747.D | 0.561 | 10042023T19:33:00 |
| 0.487 | 07272023T03:27:00 | VL040579.D | 0.46 | 07312023T19:20:00 | VL040747.D | 0.456 | 10042023T19:33:00 |
| 0.03 | 07312023T17:18:00 | VL040581.D | 0.033 | 07312023T20:41:00 | VL040772.D | 0.041 | 10122023T01:48:00 |

| Datafile16 | Concentration16 | Adate16 | Department | AVG Concentration | Recovery |
|---|---|---|---|---|---|
| VL040805.D | 0.428 | 10252023T18:12:00 | VOC | 0.45 | 110 |
| VL040787.D | 0.04 | 10232023T20:32:00 | VOC | 0.032 | 110 |
| VL040787.D | 0.04 | 10232023T20:32:00 | VOC | 0.03 | 100 |
| VL040805.D | 0.471 | 10252023T18:12:00 | VOC | 0.42 | 110 |
| VL040805.D | 0.476 | 10252023T18:12:00 | VOC | 0.48 | 120 |
| VL040805.D | 0.427 | 10252023T18:12:00 | VOC | 0.46 | 110 |
| VL040805.D | 0.47 | 10252023T18:12:00 | VOC | 0.45 | 110 |
| VL040805.D | 0.288 | 10252023T18:12:00 | VOC | 0.31 | 79 |
| VL040805.D | 0.435 | 10252023T18:12:00 | VOC | 0.37 | 93 |
| VL040805.D | 0.433 | 10252023T18:12:00 | VOC | 0.38 | 95 |
| VL040805.D | 0.405 | 10252023T18:12:00 | VOC | 0.41 | 100 |
| VL040805.D | 0.501 | 10252023T18:12:00 | VOC | 0.44 | 110 |
| VL040805.D | 0.456 | 10252023T18:12:00 | VOC | 0.42 | 100 |
| VL040805.D | 0.403 | 10252023T18:12:00 | VOC | 0.35 | 87 |
| VL040805.D | 0.455 | 10252023T18:12:00 | VOC | 0.44 | 110 |
| VL040805.D | 0.412 | 10252023T18:12:00 | VOC | 0.4 | 100 |
| VL040805.D | 0.414 | 10252023T18:12:00 | VOC | 0.4 | 100 |
| VL040805.D | 0.486 | 10252023T18:12:00 | VOC | 0.38 | 96 |
| VL040805.D | 0.434 | 10252023T18:12:00 | VOC | 0.37 | 93 |
| VL040805.D | 0.467 | 10252023T18:12:00 | VOC | 0.42 | 100 |
| VL040805.D | 0.42 | 10252023T18:12:00 | VOC | 0.35 | 88 |
| VL040805.D | 0.353 | 10252023T18:12:00 | VOC | 0.3 | 75 |
| VL040805.D | 0.397 | 10252023T18:12:00 | VOC | 0.34 | 84 |
| VL040805.D | 0.403 | 10252023T18:12:00 | VOC | 0.34 | 84 |
| VL040805.D | 0.576 | 10252023T18:12:00 | VOC | 0.53 | 130 |
| VL040805.D | 0.422 | 10252023T18:12:00 | VOC | 0.43 | 110 |
| VL040805.D | 0.445 | 10252023T18:12:00 | VOC | 0.38 | 96 |
| VL040805.D | 0.205 | 10252023T18:12:00 | VOC | 0.36 | 91 |
| VL040805.D | 0.458 | 10252023T18:12:00 | VOC | 0.4 | 100 |
| VL040805.D | 0.436 | 10252023T18:12:00 | VOC | 0.44 | 110 |
| VL040805.D | 0.34 | 10252023T18:12:00 | VOC | 0.33 | 82 |
| VL040805.D | 0.508 | 10252023T18:12:00 | VOC | 0.47 | 120 |
| VL040805.D | 0.361 | 10252023T18:12:00 | VOC | 0.38 | 95 |
| VL040787.D | 0.04 | 10232023T20:32:00 | VOC | 0.031 | 100 |
| VL040805.D | 0.454 | 10252023T18:12:00 | VOC | 0.45 | 110 |
| VL040805.D | 0.517 | 10252023T18:12:00 | VOC | 0.48 | 120 |
| VL040805.D | 0.435 | 10252023T18:12:00 | VOC | 0.47 | 120 |
| VL040805.D | 0.487 | 10252023T18:12:00 | VOC | 0.45 | 110 |
| VL040805.D | 0.458 | 10252023T18:12:00 | VOC | 0.46 | 120 |
| VL040805.D | 0.435 | 10252023T18:12:00 | VOC | 0.4 | 99 |
| VL040805.D | 0.335 | 10252023T18:12:00 | VOC | 0.3 | 75 |
| VL040805.D | 0.416 | 10252023T18:12:00 | VOC | 0.39 | 96 |
| VL040805.D | 0.384 | 10252023T18:12:00 | VOC | 0.36 | 89 |
| VL040805.D | 0.516 | 10252023T18:12:00 | VOC | 0.54 | 140 |
| VL040805.D | 0.505 | 10252023T18:12:00 | VOC | 0.48 | 120 |
| VL040805.D | 0.404 | 10252023T18:12:00 | VOC | 0.4 | 100 |
| VL040805.D | 0.406 | 10252023T18:12:00 | VOC | 0.33 | 82 |
| VL040805.D | 0.404 | 10252023T18:12:00 | VOC | 0.35 | 88 |
| VL040805.D | 0.446 | 10252023T18:12:00 | VOC | 0.45 | 110 |
| VL040805.D | 0.452 | 10252023T18:12:00 | VOC | 0.4 | 100 |
| VL040805.D | 0.442 | 10252023T18:12:00 | VOC | 0.45 | 110 |
| VL040805.D | 0.435 | 10252023T18:12:00 | VOC | 0.38 | 96 |
| VL040805.D | 0.888 | 10252023T18:12:00 | VOC | 0.72 | 180 |
| VL040805.D | 0.348 | 10252023T18:12:00 | VOC | 0.32 | 80 |
| VL040805.D | 0.353 | 10252023T18:12:00 | VOC | 0.41 | 100 |
| VL040805.D | 0.619 | 10252023T18:12:00 | VOC | 0.56 | 140 |
| VL040805.D | 0.226 | 10252023T18:12:00 | VOC | 0.27 | 66 |
| VL040805.D | 0 | 10252023T18:12:00 | VOC | 0.14 | 35 |
| VL040805.D | 0.415 | 10252023T18:12:00 | VOC | 0.35 | 88 |
| VL040805.D | 0.389 | 10252023T18:12:00 | VOC | 0.35 | 89 |
| VL040805.D | 0.439 | 10252023T18:12:00 | VOC | 0.35 | 87 |
| VL040805.D | 0.381 | 10252023T18:12:00 | VOC | 0.34 | 85 |
| VL040805.D | 0.467 | 10252023T18:12:00 | VOC | 0.46 | 110 |
| VL040805.D | 0.449 | 10252023T18:12:00 | VOC | 0.37 | 93 |
| VL040805.D | 0.35 | 10252023T18:12:00 | VOC | 0.27 | 67 |
| VL040805.D | 0.291 | 10252023T18:12:00 | VOC | 0.28 | 70 |
| VL040805.D | 0.37 | 10252023T18:12:00 | VOC | 0.45 | 110 |
| VL040805.D | 0.427 | 10252023T18:12:00 | VOC | 0.37 | 92 |
| VL040787.D | 0.04 | 10232023T20:32:00 | VOC | 0.032 | 110 |
| VL040805.D | 0.416 | 10252023T18:12:00 | VOC | 0.35 | 88 |
| VL040805.D | 0.38 | 10252023T18:12:00 | VOC | 0.31 | 78 |
| VL040805.D | 0.435 | 10252023T18:12:00 | VOC | 0.43 | 110 |
| VL040787.D | 0.05 | 10232023T20:32:00 | VOC | 0.033 | 110 |
| VL040805.D | 0.506 | 10252023T18:12:00 | VOC | 0.48 | 120 |
| VL040805.D | 0.341 | 10252023T18:12:00 | VOC | 0.43 | 110 |
| VL040787.D | 0.04 | 10232023T20:32:00 | VOC | 0.033 | 110 |
| | | | VOC | 0.544 | 136 |

# QC SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Surrogate Summary

**SDG No.:** Q1665

**Client:** Woodard & Curran

**Analytical Method:** SWTO-15

| Lab Sample ID | Client ID | Parameter | Spike | Result | RecoveryQual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|
| Q1665-01 | AA-DUP-1-3242025 | 1-Bromo-4-Fluorobenzene | 10 | 9.12 | 91 | 70 (65) | 130 (135) |
| Q1665-01DUP | AA-DUP-1-3242025DUP | 1-Bromo-4-Fluorobenzene | 10 | 9.35 | 93 | 70 (65) | 130 (135) |
| Q1665-03 | IA-B10-2-3242025 | 1-Bromo-4-Fluorobenzene | 10 | 9.83 | 98 | 70 (65) | 130 (135) |
| Q1665-03DL | IA-B10-2-3242025DL | 1-Bromo-4-Fluorobenzene | 10 | 9.07 | 91 | 70 (65) | 130 (135) |
| Q1665-03DUP | IA-B10-2-3242025DUP | 1-Bromo-4-Fluorobenzene | 10 | 9.74 | 97 | 70 (65) | 130 (135) |
| Q1665-04 | AA-1-3242025 | 1-Bromo-4-Fluorobenzene | 10 | 9.22 | 92 | 70 (65) | 130 (135) |
| Q1665-05 | IA-B2-3-3242025 | 1-Bromo-4-Fluorobenzene | 10 | 10.5 | 105 | 70 (65) | 130 (135) |
| Q1665-06 | IA-B9-1-3242025 | 1-Bromo-4-Fluorobenzene | 10 | 9.36 | 94 | 70 (65) | 130 (135) |
| Q1665-07 | IA-DUP-1-3242025 | 1-Bromo-4-Fluorobenzene | 10 | 10.4 | 104 | 70 (65) | 130 (135) |
| Q1665-07DL | IA-DUP-1-3242025DL | 1-Bromo-4-Fluorobenzene | 10 | 10.7 | 107 | 70 (65) | 130 (135) |
| Q1665-08 | IA-DUP-2-3242025 | 1-Bromo-4-Fluorobenzene | 10 | 9.13 | 91 | 70 (65) | 130 (135) |
| Q1665-09 | IA-B9-2-3242025 | 1-Bromo-4-Fluorobenzene | 10 | 9.71 | 97 | 70 (65) | 130 (135) |
| Q1665-10 | IA-B10-4-3242025 | 1-Bromo-4-Fluorobenzene | 10 | 9.57 | 96 | 70 (65) | 130 (135) |
| Q1665-10DL | IA-B10-4-3242025DL | 1-Bromo-4-Fluorobenzene | 10 | 9.14 | 91 | 70 (65) | 130 (135) |
| Q1665-10DL2 | IA-B10-4-3242025DL2 | 1-Bromo-4-Fluorobenzene | 10 | 9.33 | 93 | 70 (65) | 130 (135) |
| Q1665-11 | IA-B10-1-3242025 | 1-Bromo-4-Fluorobenzene | 10 | 10.0 | 100 | 70 (65) | 130 (135) |
| Q1665-11DL | IA-B10-1-3242025DL | 1-Bromo-4-Fluorobenzene | 10 | 9.22 | 92 | 70 (65) | 130 (135) |
| Q1665-12 | IA-B2-6-3242025 | 1-Bromo-4-Fluorobenzene | 10 | 10.5 | 105 | 70 (65) | 130 (135) |
| Q1665-15 | IA-B14-1-3242025 | 1-Bromo-4-Fluorobenzene | 10 | 10.1 | 101 | 70 (65) | 130 (135) |
| Q1665-15DL | IA-B14-1-3242025DL | 1-Bromo-4-Fluorobenzene | 10 | 10.2 | 102 | 70 (65) | 130 (135) |
| Q1665-16 | IA-B2-5-3242025 | 1-Bromo-4-Fluorobenzene | 10 | 10.7 | 107 | 70 (65) | 130 (135) |
| Q1665-18 | IA-B10-3-3242025 | 1-Bromo-4-Fluorobenzene | 10 | 9.39 | 94 | 70 (65) | 130 (135) |
| Q1665-18DL | IA-B10-3-3242025DL | 1-Bromo-4-Fluorobenzene | 10 | 9.51 | 95 | 70 (65) | 130 (135) |
| Q1665-19 | IA-B2-2-3242025 | 1-Bromo-4-Fluorobenzene | 10 | 10.7 | 107 | 70 (65) | 130 (135) |
| Q1665-19DL | IA-B2-2-3242025DL | 1-Bromo-4-Fluorobenzene | 10 | 11.3 | 113 | 70 (65) | 130 (135) |
| Q1665-20 | IA-B9-3-3242025 | 1-Bromo-4-Fluorobenzene | 10 | 9.39 | 94 | 70 (65) | 130 (135) |
| Q1665-21 | IA-B2-1-3242025 | 1-Bromo-4-Fluorobenzene | 10 | 10.5 | 105 | 70 (65) | 130 (135) |
| Q1665-21DL | IA-B2-1-3242025DL | 1-Bromo-4-Fluorobenzene | 10 | 10.9 | 109 | 70 (65) | 130 (135) |
| Q1665-22 | IA-B2-4-3242025 | 1-Bromo-4-Fluorobenzene | 10 | 10.4 | 104 | 70 (65) | 130 (135) |
| VL0409ABL01 | VL0409ABL01 | 1-Bromo-4-Fluorobenzene | 10 | 9.13 | 91 | 70 (65) | 130 (135) |
| VL0409ABS02 | VL0409ABS02 | 1-Bromo-4-Fluorobenzene | 10 | 9.52 | 95 | 70 (65) | 130 (135) |
| VL0411ABL01 | VL0411ABL01 | 1-Bromo-4-Fluorobenzene | 10 | 9.05 | 91 | 70 (65) | 130 (135) |
| VL0411ABS01 | VL0411ABS01 | 1-Bromo-4-Fluorobenzene | 10 | 9.91 | 99 | 70 (65) | 130 (135) |
| VL0415ABL01 | VL0415ABL01 | 1-Bromo-4-Fluorobenzene | 10 | 9.25 | 93 | 70 (65) | 130 (135) |
| VL0415ABS01 | VL0415ABS01 | 1-Bromo-4-Fluorobenzene | 10 | 9.72 | 97 | 70 (65) | 130 (135) |
| VL0417ABL01 | VL0417ABL01 | 1-Bromo-4-Fluorobenzene | 10 | 10.1 | 101 | 70 (65) | 130 (135) |
| VL0417ABS01 | VL0417ABS01 | 1-Bromo-4-Fluorobenzene | 10 | 10.1 | 101 | 70 (65) | 130 (135) |
| VL0428ABL01 | VL0428ABL01 | 1-Bromo-4-Fluorobenzene | 10 | 10.4 | 105 | 70 (65) | 130 (135) |
| VL0428ABS01 | VL0428ABS01 | 1-Bromo-4-Fluorobenzene | 10 | 10.5 | 105 | 70 (65) | 130 (135) |
| VL0429ABL01 | VL0429ABL01 | 1-Bromo-4-Fluorobenzene | 10 | 10.6 | 106 | 70 (65) | 130 (135) |
| VL0429ABS01 | VL0429ABS01 | 1-Bromo-4-Fluorobenzene | 10 | 11.3 | 113 | 70 (65) | 130 (135) |

( ) = LABORATORY INHOUSE LIMIT

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q1665 **Analytical Method:** SWTO-15

**Client:** Woodard & Curran **Datafile :** VL042289.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VL0409ABS02 | Dichlorodifluoromethane | 10 | 9.60 | ppbv | 96 | | | 40 (70) | 160 (130) | |
| | Ethanol | 10 | 4.50 | ppbv | 45 | | * | 70 (70) | 130 (130) | |
| | Chloromethane | 10 | 9.80 | ppbv | 98 | | | 40 (70) | 160 (130) | |
| | Vinyl Chloride | 10 | 8.70 | ppbv | 87 | | | 70 (70) | 130 (130) | |
| | Bromomethane | 10 | 9.00 | ppbv | 90 | | | 40 (70) | 160 (130) | |
| | Chloroethane | 10 | 9.20 | ppbv | 92 | | | 40 (70) | 160 (130) | |
| | Tetrahydrofuran | 10 | 10.7 | ppbv | 107 | | | 70 (70) | 130 (130) | |
| | Trichlorofluoromethane | 10 | 9.50 | ppbv | 95 | | | 40 (70) | 160 (130) | |
| | 1,1,2-Trichlorotrifluoroethane | 10 | 9.50 | ppbv | 95 | | | 70 (70) | 130 (130) | |
| | Dichlorotetrafluoethane | 10 | 9.70 | ppbv | 97 | | | 70 (70) | 130 (130) | |
| | Bromoethene | 10 | 8.80 | ppbv | 88 | | | 70 (70) | 130 (130) | |
| | tert-Butyl Alcohol | 10 | 8.30 | ppbv | 83 | | | 70 (70) | 130 (130) | |
| | Heptane | 10 | 9.70 | ppbv | 97 | | | 70 (70) | 130 (130) | |
| | Isopropyl Alcohol | 10 | 8.80 | ppbv | 88 | | | 70 (70) | 130 (130) | |
| | 1,1-Dichloroethene | 10 | 8.90 | ppbv | 89 | | | 70 (70) | 130 (130) | |
| | Acetone | 10 | 8.90 | ppbv | 89 | | | 40 (70) | 160 (130) | |
| | Carbon disulfide | 10 | 9.30 | ppbv | 93 | | | 40 (70) | 160 (130) | |
| | Methyl tert-butyl Ether | 10 | 8.50 | ppbv | 85 | | | 70 (70) | 130 (130) | |
| | Methylene Chloride | 10 | 8.40 | ppbv | 84 | | | 70 (70) | 130 (130) | |
| | trans-1,2-Dichloroethene | 10 | 8.80 | ppbv | 88 | | | 70 (70) | 130 (130) | |
| | 1,1-Dichloroethane | 10 | 9.70 | ppbv | 97 | | | 70 (70) | 130 (130) | |
| | Cyclohexane | 10 | 9.40 | ppbv | 94 | | | 70 (70) | 130 (130) | |
| | 2-Butanone | 10 | 10.9 | ppbv | 109 | | | 40 (70) | 160 (130) | |
| | Carbon Tetrachloride | 10 | 10.4 | ppbv | 104 | | | 70 (70) | 130 (130) | |
| | cis-1,2-Dichloroethene | 10 | 9.70 | ppbv | 97 | | | 70 (70) | 130 (130) | |
| | Chloroform | 10 | 10.4 | ppbv | 104 | | | 70 (70) | 130 (130) | |
| | 1,1,1-Trichloroethane | 10 | 8.90 | ppbv | 89 | | | 70 (70) | 130 (130) | |
| | 2,2,4-Trimethylpentane | 10 | 10.7 | ppbv | 107 | | | 70 (70) | 130 (130) | |
| | Benzene | 10 | 10.6 | ppbv | 106 | | | 70 (70) | 130 (130) | |
| | 1,2-Dichloroethane | 10 | 11.0 | ppbv | 110 | | | 70 (70) | 130 (130) | |
| | Trichloroethene | 10 | 10.1 | ppbv | 101 | | | 70 (70) | 130 (130) | |
| | 1,2-Dichloropropane | 10 | 10.6 | ppbv | 106 | | | 70 (70) | 130 (130) | |
| | Bromodichloromethane | 10 | 10.9 | ppbv | 109 | | | 70 (70) | 130 (130) | |
| | 4-Methyl-2-Pentanone | 10 | 9.60 | ppbv | 96 | | | 40 (70) | 160 (130) | |
| | Toluene | 10 | 9.90 | ppbv | 99 | | | 70 (70) | 130 (130) | |
| | t-1,3-Dichloropropene | 10 | 8.50 | ppbv | 85 | | | 70 (70) | 130 (130) | |
| | cis-1,3-Dichloropropene | 10 | 9.20 | ppbv | 92 | | | 70 (70) | 130 (130) | |
| | 1,1,2-Trichloroethane | 10 | 10.8 | ppbv | 108 | | | 70 (70) | 130 (130) | |
| | Dibromochloromethane | 10 | 10.5 | ppbv | 105 | | | 70 (70) | 130 (130) | |
| | 1,2-Dibromoethane | 10 | 10.6 | ppbv | 106 | | | 70 (70) | 130 (130) | |
| | Tetrachloroethene | 10 | 8.90 | ppbv | 89 | | | 70 (70) | 130 (130) | |
| | Chlorobenzene | 10 | 11.4 | ppbv | 114 | | | 70 (70) | 130 (130) | |
| | Ethyl Benzene | 10 | 10.6 | ppbv | 106 | | | 70 (70) | 130 (130) | |
| | m/p-Xylene | 20 | 22.2 | ppbv | 111 | | | 70 (70) | 130 (130) | |
| | o-Xylene | 10 | 11.0 | ppbv | 110 | | | 70 (70) | 130 (130) | |
| | Styrene | 10 | 10.0 | ppbv | 100 | | | 70 (70) | 130 (130) | |
| | Bromoform | 10 | 10.4 | ppbv | 104 | | | 70 (70) | 130 (130) | |
| | 1,1,2,2-Tetrachloroethane | 10 | 11.8 | ppbv | 118 | | | 70 (70) | 130 (130) | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

| | | | |
|---|---|---|---|
| **SDG No.:** | **Q1665** | **Analytical Method:** | **SWTO-15** |
| **Client:** | **Woodard & Curran** | **Datafile :** | VL042289.D |

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| **VL0409ABS02** | 2-Chlorotoluene | 10 | 10.9 | ppbv | 109 | | | 70 (70) | 130 (130) | |
| | 1,3,5-Trimethylbenzene | 10 | 10.9 | ppbv | 109 | | | 70 (70) | 130 (130) | |
| | 1,2,4-Trimethylbenzene | 10 | 10.7 | ppbv | 107 | | | 70 (70) | 130 (130) | |
| | 1,3-Dichlorobenzene | 10 | 11.6 | ppbv | 116 | | | 70 (70) | 130 (130) | |
| | 1,4-Dichlorobenzene | 10 | 11.7 | ppbv | 117 | | | 70 (70) | 130 (130) | |
| | 1,2-Dichlorobenzene | 10 | 11.9 | ppbv | 119 | | | 70 (70) | 130 (130) | |
| | 1,2,4-Trichlorobenzene | 10 | 10.8 | ppbv | 108 | | | 70 (70) | 130 (130) | |
| | Hexachloro-1,3-butadiene | 10 | 9.30 | ppbv | 93 | | | 70 (70) | 130 (130) | |
| | Naphthalene | 10 | 11.3 | ppbv | 113 | | | 40 (70) | 160 (130) | |
| | 1,3-Butadiene | 10 | 8.60 | ppbv | 86 | | | 70 (70) | 130 (130) | |
| | 4-Ethyltoluene | 10 | 11.1 | ppbv | 111 | | | 70 (70) | 130 (130) | |
| | Hexane | 10 | 9.90 | ppbv | 99 | | | 70 (70) | 130 (130) | |
| | Allyl Chloride | 10 | 9.30 | ppbv | 93 | | | 70 (70) | 130 (130) | |
| | 1,4-Dioxane | 10 | 9.40 | ppbv | 94 | | | 40 (70) | 160 (130) | |
| | Methyl methacrylate | 10 | 9.40 | ppbv | 94 | | | 70 (70) | 130 (130) | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q1665 **Analytical Method:** SWTO-15

**Client:** Woodard & Curran **Datafile :** VL042314.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VL0411ABS01 | Dichlorodifluoromethane | 10 | 9.90 | ppbv | 99 | | | 40 (70) | 160 (130) | |
| | Ethanol | 10 | 4.20 | ppbv | 42 | | * | 70 (70) | 130 (130) | |
| | Chloromethane | 10 | 10.2 | ppbv | 102 | | | 40 (70) | 160 (130) | |
| | Vinyl Chloride | 10 | 8.70 | ppbv | 87 | | | 70 (70) | 130 (130) | |
| | Bromomethane | 10 | 8.90 | ppbv | 89 | | | 40 (70) | 160 (130) | |
| | Chloroethane | 10 | 9.30 | ppbv | 93 | | | 40 (70) | 160 (130) | |
| | Tetrahydrofuran | 10 | 10.9 | ppbv | 109 | | | 70 (70) | 130 (130) | |
| | Trichlorofluoromethane | 10 | 9.60 | ppbv | 96 | | | 40 (70) | 160 (130) | |
| | 1,1,2-Trichlorotrifluoroethane | 10 | 9.10 | ppbv | 91 | | | 70 (70) | 130 (130) | |
| | Dichlorotetrafluoethane | 10 | 9.80 | ppbv | 98 | | | 70 (70) | 130 (130) | |
| | Bromoethene | 10 | 8.80 | ppbv | 88 | | | 70 (70) | 130 (130) | |
| | tert-Butyl Alcohol | 10 | 7.80 | ppbv | 78 | | | 70 (70) | 130 (130) | |
| | Heptane | 10 | 9.90 | ppbv | 99 | | | 70 (70) | 130 (130) | |
| | Isopropyl Alcohol | 10 | 8.40 | ppbv | 84 | | | 70 (70) | 130 (130) | |
| | 1,1-Dichloroethene | 10 | 8.40 | ppbv | 84 | | | 70 (70) | 130 (130) | |
| | Acetone | 10 | 9.20 | ppbv | 92 | | | 40 (70) | 160 (130) | |
| | Carbon disulfide | 10 | 8.80 | ppbv | 88 | | | 40 (70) | 160 (130) | |
| | Methyl tert-butyl Ether | 10 | 7.90 | ppbv | 79 | | | 70 (70) | 130 (130) | |
| | Methylene Chloride | 10 | 8.10 | ppbv | 81 | | | 70 (70) | 130 (130) | |
| | trans-1,2-Dichloroethene | 10 | 8.70 | ppbv | 87 | | | 70 (70) | 130 (130) | |
| | 1,1-Dichloroethane | 10 | 9.80 | ppbv | 98 | | | 70 (70) | 130 (130) | |
| | Cyclohexane | 10 | 9.00 | ppbv | 90 | | | 70 (70) | 130 (130) | |
| | 2-Butanone | 10 | 11.3 | ppbv | 113 | | | 40 (70) | 160 (130) | |
| | Carbon Tetrachloride | 10 | 11.2 | ppbv | 112 | | | 70 (70) | 130 (130) | |
| | cis-1,2-Dichloroethene | 10 | 9.20 | ppbv | 92 | | | 70 (70) | 130 (130) | |
| | Chloroform | 10 | 10.5 | ppbv | 105 | | | 70 (70) | 130 (130) | |
| | 1,1,1-Trichloroethane | 10 | 8.80 | ppbv | 88 | | | 70 (70) | 130 (130) | |
| | 2,2,4-Trimethylpentane | 10 | 11.4 | ppbv | 114 | | | 70 (70) | 130 (130) | |
| | Benzene | 10 | 11.1 | ppbv | 111 | | | 70 (70) | 130 (130) | |
| | 1,2-Dichloroethane | 10 | 11.5 | ppbv | 115 | | | 70 (70) | 130 (130) | |
| | Trichloroethene | 10 | 10.6 | ppbv | 106 | | | 70 (70) | 130 (130) | |
| | 1,2-Dichloropropane | 10 | 11.2 | ppbv | 112 | | | 70 (70) | 130 (130) | |
| | Bromodichloromethane | 10 | 11.7 | ppbv | 117 | | | 70 (70) | 130 (130) | |
| | 4-Methyl-2-Pentanone | 10 | 10.1 | ppbv | 101 | | | 40 (70) | 160 (130) | |
| | Toluene | 10 | 10.1 | ppbv | 101 | | | 70 (70) | 130 (130) | |
| | t-1,3-Dichloropropene | 10 | 8.30 | ppbv | 83 | | | 70 (70) | 130 (130) | |
| | cis-1,3-Dichloropropene | 10 | 9.20 | ppbv | 92 | | | 70 (70) | 130 (130) | |
| | 1,1,2-Trichloroethane | 10 | 11.7 | ppbv | 117 | | | 70 (70) | 130 (130) | |
| | Dibromochloromethane | 10 | 11.2 | ppbv | 112 | | | 70 (70) | 130 (130) | |
| | 1,2-Dibromoethane | 10 | 11.2 | ppbv | 112 | | | 70 (70) | 130 (130) | |
| | Tetrachloroethene | 10 | 9.50 | ppbv | 95 | | | 70 (70) | 130 (130) | |
| | Chlorobenzene | 10 | 12.5 | ppbv | 125 | | | 70 (70) | 130 (130) | |
| | Ethyl Benzene | 10 | 11.1 | ppbv | 111 | | | 70 (70) | 130 (130) | |
| | m/p-Xylene | 20 | 24.2 | ppbv | 121 | | | 70 (70) | 130 (130) | |
| | o-Xylene | 10 | 11.9 | ppbv | 119 | | | 70 (70) | 130 (130) | |
| | Styrene | 10 | 10.5 | ppbv | 105 | | | 70 (70) | 130 (130) | |
| | Bromoform | 10 | 11.3 | ppbv | 113 | | | 70 (70) | 130 (130) | |
| | 1,1,2,2-Tetrachloroethane | 10 | 13.2 | ppbv | 132 | | * | 70 (70) | 130 (130) | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q1665 **Analytical Method:** SWTO-15

**Client:** Woodard & Curran **Datafile :** VL042314.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VL0411ABS01 | 2-Chlorotoluene | 10 | 11.8 | ppbv | 118 | | | 70 (70) | 130 (130) | |
| | 1,3,5-Trimethylbenzene | 10 | 11.9 | ppbv | 119 | | | 70 (70) | 130 (130) | |
| | 1,2,4-Trimethylbenzene | 10 | 11.9 | ppbv | 119 | | | 70 (70) | 130 (130) | |
| | 1,3-Dichlorobenzene | 10 | 12.8 | ppbv | 128 | | | 70 (70) | 130 (130) | |
| | 1,4-Dichlorobenzene | 10 | 12.9 | ppbv | 129 | | | 70 (70) | 130 (130) | |
| | 1,2-Dichlorobenzene | 10 | 13.2 | ppbv | 132 | | * | 70 (70) | 130 (130) | |
| | 1,2,4-Trichlorobenzene | 10 | 10.8 | ppbv | 108 | | | 70 (70) | 130 (130) | |
| | Hexachloro-1,3-butadiene | 10 | 9.80 | ppbv | 98 | | | 70 (70) | 130 (130) | |
| | Naphthalene | 10 | 10.9 | ppbv | 109 | | | 40 (70) | 160 (130) | |
| | 1,3-Butadiene | 10 | 9.10 | ppbv | 91 | | | 70 (70) | 130 (130) | |
| | 4-Ethyltoluene | 10 | 12.1 | ppbv | 121 | | | 70 (70) | 130 (130) | |
| | Hexane | 10 | 10.0 | ppbv | 100 | | | 70 (70) | 130 (130) | |
| | Allyl Chloride | 10 | 8.90 | ppbv | 89 | | | 70 (70) | 130 (130) | |
| | 1,4-Dioxane | 10 | 9.40 | ppbv | 94 | | | 40 (70) | 160 (130) | |
| | Methyl methacrylate | 10 | 9.50 | ppbv | 95 | | | 70 (70) | 130 (130) | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q1665 **Analytical Method:** SWTO-15

**Client:** Woodard & Curran **Datafile :** VL042328.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VL0415ABS01 | Dichlorodifluoromethane | 10 | 8.40 | ppbv | 84 | | | 40 (70) | 160 (130) | |
| | Ethanol | 10 | 3.90 | ppbv | 39 | | * | 70 (70) | 130 (130) | |
| | Chloromethane | 10 | 8.50 | ppbv | 85 | | | 40 (70) | 160 (130) | |
| | Vinyl Chloride | 10 | 7.50 | ppbv | 75 | | | 70 (70) | 130 (130) | |
| | Bromomethane | 10 | 7.70 | ppbv | 77 | | | 40 (70) | 160 (130) | |
| | Chloroethane | 10 | 7.90 | ppbv | 79 | | | 40 (70) | 160 (130) | |
| | Tetrahydrofuran | 10 | 9.40 | ppbv | 94 | | | 70 (70) | 130 (130) | |
| | Trichlorofluoromethane | 10 | 8.20 | ppbv | 82 | | | 40 (70) | 160 (130) | |
| | 1,1,2-Trichlorotrifluoroethane | 10 | 7.60 | ppbv | 76 | | | 70 (70) | 130 (130) | |
| | Dichlorotetrafluoethane | 10 | 8.20 | ppbv | 82 | | | 70 (70) | 130 (130) | |
| | Bromoethene | 10 | 7.40 | ppbv | 74 | | | 70 (70) | 130 (130) | |
| | tert-Butyl Alcohol | 10 | 6.80 | ppbv | 68 | | * | 70 (70) | 130 (130) | |
| | Heptane | 10 | 8.50 | ppbv | 85 | | | 70 (70) | 130 (130) | |
| | Isopropyl Alcohol | 10 | 7.40 | ppbv | 74 | | | 70 (70) | 130 (130) | |
| | 1,1-Dichloroethene | 10 | 7.30 | ppbv | 73 | | | 70 (70) | 130 (130) | |
| | Acetone | 10 | 7.40 | ppbv | 74 | | | 40 (70) | 160 (130) | |
| | Carbon disulfide | 10 | 7.40 | ppbv | 74 | | | 40 (70) | 160 (130) | |
| | Methyl tert-butyl Ether | 10 | 7.20 | ppbv | 72 | | | 70 (70) | 130 (130) | |
| | Methylene Chloride | 10 | 6.70 | ppbv | 67 | | * | 70 (70) | 130 (130) | |
| | trans-1,2-Dichloroethene | 10 | 7.20 | ppbv | 72 | | | 70 (70) | 130 (130) | |
| | 1,1-Dichloroethane | 10 | 8.30 | ppbv | 83 | | | 70 (70) | 130 (130) | |
| | Cyclohexane | 10 | 7.90 | ppbv | 79 | | | 70 (70) | 130 (130) | |
| | 2-Butanone | 10 | 9.30 | ppbv | 93 | | | 40 (70) | 160 (130) | |
| | Carbon Tetrachloride | 10 | 9.10 | ppbv | 91 | | | 70 (70) | 130 (130) | |
| | cis-1,2-Dichloroethene | 10 | 8.10 | ppbv | 81 | | | 70 (70) | 130 (130) | |
| | Chloroform | 10 | 8.80 | ppbv | 88 | | | 70 (70) | 130 (130) | |
| | 1,1,1-Trichloroethane | 10 | 7.50 | ppbv | 75 | | | 70 (70) | 130 (130) | |
| | 2,2,4-Trimethylpentane | 10 | 9.50 | ppbv | 95 | | | 70 (70) | 130 (130) | |
| | Benzene | 10 | 9.30 | ppbv | 93 | | | 70 (70) | 130 (130) | |
| | 1,2-Dichloroethane | 10 | 9.30 | ppbv | 93 | | | 70 (70) | 130 (130) | |
| | Trichloroethene | 10 | 9.00 | ppbv | 90 | | | 70 (70) | 130 (130) | |
| | 1,2-Dichloropropane | 10 | 9.30 | ppbv | 93 | | | 70 (70) | 130 (130) | |
| | Bromodichloromethane | 10 | 9.40 | ppbv | 94 | | | 70 (70) | 130 (130) | |
| | 4-Methyl-2-Pentanone | 10 | 8.40 | ppbv | 84 | | | 40 (70) | 160 (130) | |
| | Toluene | 10 | 8.60 | ppbv | 86 | | | 70 (70) | 130 (130) | |
| | t-1,3-Dichloropropene | 10 | 7.20 | ppbv | 72 | | | 70 (70) | 130 (130) | |
| | cis-1,3-Dichloropropene | 10 | 7.80 | ppbv | 78 | | | 70 (70) | 130 (130) | |
| | 1,1,2-Trichloroethane | 10 | 9.60 | ppbv | 96 | | | 70 (70) | 130 (130) | |
| | Dibromochloromethane | 10 | 9.30 | ppbv | 93 | | | 70 (70) | 130 (130) | |
| | 1,2-Dibromoethane | 10 | 9.10 | ppbv | 91 | | | 70 (70) | 130 (130) | |
| | Tetrachloroethene | 10 | 8.00 | ppbv | 80 | | | 70 (70) | 130 (130) | |
| | Chlorobenzene | 10 | 9.70 | ppbv | 97 | | | 70 (70) | 130 (130) | |
| | Ethyl Benzene | 10 | 8.70 | ppbv | 87 | | | 70 (70) | 130 (130) | |
| | m/p-Xylene | 20 | 18.5 | ppbv | 93 | | | 70 (70) | 130 (130) | |
| | o-Xylene | 10 | 9.10 | ppbv | 91 | | | 70 (70) | 130 (130) | |
| | Styrene | 10 | 8.20 | ppbv | 82 | | | 70 (70) | 130 (130) | |
| | Bromoform | 10 | 9.20 | ppbv | 92 | | | 70 (70) | 130 (130) | |
| | 1,1,2,2-Tetrachloroethane | 10 | 10.2 | ppbv | 102 | | | 70 (70) | 130 (130) | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q1665 **Analytical Method:** SWTO-15

**Client:** Woodard & Curran **Datafile :** VL042328.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VL0415ABS01 | 2-Chlorotoluene | 10 | 9.00 | ppbv | 90 | | | 70 (70) | 130 (130) | |
| | 1,3,5-Trimethylbenzene | 10 | 9.10 | ppbv | 91 | | | 70 (70) | 130 (130) | |
| | 1,2,4-Trimethylbenzene | 10 | 8.90 | ppbv | 89 | | | 70 (70) | 130 (130) | |
| | 1,3-Dichlorobenzene | 10 | 9.80 | ppbv | 98 | | | 70 (70) | 130 (130) | |
| | 1,4-Dichlorobenzene | 10 | 9.90 | ppbv | 99 | | | 70 (70) | 130 (130) | |
| | 1,2-Dichlorobenzene | 10 | 10.2 | ppbv | 102 | | | 70 (70) | 130 (130) | |
| | 1,2,4-Trichlorobenzene | 10 | 9.60 | ppbv | 96 | | | 70 (70) | 130 (130) | |
| | Hexachloro-1,3-butadiene | 10 | 8.10 | ppbv | 81 | | | 70 (70) | 130 (130) | |
| | Naphthalene | 10 | 10.0 | ppbv | 100 | | | 40 (70) | 160 (130) | |
| | 1,3-Butadiene | 10 | 7.60 | ppbv | 76 | | | 70 (70) | 130 (130) | |
| | 4-Ethyltoluene | 10 | 9.20 | ppbv | 92 | | | 70 (70) | 130 (130) | |
| | Hexane | 10 | 8.50 | ppbv | 85 | | | 70 (70) | 130 (130) | |
| | Allyl Chloride | 10 | 7.50 | ppbv | 75 | | | 70 (70) | 130 (130) | |
| | 1,4-Dioxane | 10 | 8.10 | ppbv | 81 | | | 40 (70) | 160 (130) | |
| | Methyl methacrylate | 10 | 8.10 | ppbv | 81 | | | 70 (70) | 130 (130) | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q1665 **Analytical Method:** SWTO-15

**Client:** Woodard & Curran **Datafile :** VL042358.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VL0417ABS01 | Dichlorodifluoromethane | 10 | 10.3 | ppbv | 103 | | | 40 (70) | 160 (130) | |
| | Ethanol | 10 | 3.20 | ppbv | 32 | | * | 70 (70) | 130 (130) | |
| | Chloromethane | 10 | 10.1 | ppbv | 101 | | | 40 (70) | 160 (130) | |
| | Vinyl Chloride | 10 | 9.00 | ppbv | 90 | | | 70 (70) | 130 (130) | |
| | Bromomethane | 10 | 9.20 | ppbv | 92 | | | 40 (70) | 160 (130) | |
| | Chloroethane | 10 | 10.1 | ppbv | 101 | | | 40 (70) | 160 (130) | |
| | Tetrahydrofuran | 10 | 9.70 | ppbv | 97 | | | 70 (70) | 130 (130) | |
| | Trichlorofluoromethane | 10 | 10.1 | ppbv | 101 | | | 40 (70) | 160 (130) | |
| | 1,1,2-Trichlorotrifluoroethane | 10 | 10.1 | ppbv | 101 | | | 70 (70) | 130 (130) | |
| | Dichlorotetrafluoethane | 10 | 10.2 | ppbv | 102 | | | 70 (70) | 130 (130) | |
| | Bromoethene | 10 | 9.80 | ppbv | 98 | | | 70 (70) | 130 (130) | |
| | tert-Butyl Alcohol | 10 | 9.80 | ppbv | 98 | | | 70 (70) | 130 (130) | |
| | Heptane | 10 | 9.20 | ppbv | 92 | | | 70 (70) | 130 (130) | |
| | Isopropyl Alcohol | 10 | 9.40 | ppbv | 94 | | | 70 (70) | 130 (130) | |
| | 1,1-Dichloroethene | 10 | 9.80 | ppbv | 98 | | | 70 (70) | 130 (130) | |
| | Acetone | 10 | 8.70 | ppbv | 87 | | | 40 (70) | 160 (130) | |
| | Carbon disulfide | 10 | 10.2 | ppbv | 102 | | | 40 (70) | 160 (130) | |
| | Methyl tert-butyl Ether | 10 | 9.50 | ppbv | 95 | | | 70 (70) | 130 (130) | |
| | Methylene Chloride | 10 | 8.90 | ppbv | 89 | | | 70 (70) | 130 (130) | |
| | trans-1,2-Dichloroethene | 10 | 9.70 | ppbv | 97 | | | 70 (70) | 130 (130) | |
| | 1,1-Dichloroethane | 10 | 10.2 | ppbv | 102 | | | 70 (70) | 130 (130) | |
| | Cyclohexane | 10 | 10.1 | ppbv | 101 | | | 70 (70) | 130 (130) | |
| | 2-Butanone | 10 | 9.80 | ppbv | 98 | | | 40 (70) | 160 (130) | |
| | Carbon Tetrachloride | 10 | 9.60 | ppbv | 96 | | | 70 (70) | 130 (130) | |
| | cis-1,2-Dichloroethene | 10 | 10.4 | ppbv | 104 | | | 70 (70) | 130 (130) | |
| | Chloroform | 10 | 10.2 | ppbv | 102 | | | 70 (70) | 130 (130) | |
| | 1,1,1-Trichloroethane | 10 | 9.70 | ppbv | 97 | | | 70 (70) | 130 (130) | |
| | 2,2,4-Trimethylpentane | 10 | 10.0 | ppbv | 100 | | | 70 (70) | 130 (130) | |
| | Benzene | 10 | 10.1 | ppbv | 101 | | | 70 (70) | 130 (130) | |
| | 1,2-Dichloroethane | 10 | 10.4 | ppbv | 104 | | | 70 (70) | 130 (130) | |
| | Trichloroethene | 10 | 9.30 | ppbv | 93 | | | 70 (70) | 130 (130) | |
| | 1,2-Dichloropropane | 10 | 9.90 | ppbv | 99 | | | 70 (70) | 130 (130) | |
| | Bromodichloromethane | 10 | 10.3 | ppbv | 103 | | | 70 (70) | 130 (130) | |
| | 4-Methyl-2-Pentanone | 10 | 8.80 | ppbv | 88 | | | 40 (70) | 160 (130) | |
| | Toluene | 10 | 9.80 | ppbv | 98 | | | 70 (70) | 130 (130) | |
| | t-1,3-Dichloropropene | 10 | 9.90 | ppbv | 99 | | | 70 (70) | 130 (130) | |
| | cis-1,3-Dichloropropene | 10 | 10.1 | ppbv | 101 | | | 70 (70) | 130 (130) | |
| | 1,1,2-Trichloroethane | 10 | 10.2 | ppbv | 102 | | | 70 (70) | 130 (130) | |
| | Dibromochloromethane | 10 | 10.3 | ppbv | 103 | | | 70 (70) | 130 (130) | |
| | 1,2-Dibromoethane | 10 | 9.90 | ppbv | 99 | | | 70 (70) | 130 (130) | |
| | Tetrachloroethene | 10 | 8.80 | ppbv | 88 | | | 70 (70) | 130 (130) | |
| | Chlorobenzene | 10 | 10.0 | ppbv | 100 | | | 70 (70) | 130 (130) | |
| | Ethyl Benzene | 10 | 10.0 | ppbv | 100 | | | 70 (70) | 130 (130) | |
| | m/p-Xylene | 20 | 19.8 | ppbv | 99 | | | 70 (70) | 130 (130) | |
| | o-Xylene | 10 | 9.80 | ppbv | 98 | | | 70 (70) | 130 (130) | |
| | Styrene | 10 | 10.1 | ppbv | 101 | | | 70 (70) | 130 (130) | |
| | Bromoform | 10 | 9.90 | ppbv | 99 | | | 70 (70) | 130 (130) | |
| | 1,1,2,2-Tetrachloroethane | 10 | 8.90 | ppbv | 89 | | | 70 (70) | 130 (130) | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

| | | | |
|---|---|---|---|
| **SDG No.:** | **Q1665** | **Analytical Method:** | **SWTO-15** |
| **Client:** | **Woodard & Curran** | **Datafile :** | VL042358.D |

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| **VL0417ABS01** | 2-Chlorotoluene | 10 | 9.90 | ppbv | 99 | | | 70 (70) | 130 (130) | |
| | 1,3,5-Trimethylbenzene | 10 | 9.60 | ppbv | 96 | | | 70 (70) | 130 (130) | |
| | 1,2,4-Trimethylbenzene | 10 | 9.00 | ppbv | 90 | | | 70 (70) | 130 (130) | |
| | 1,3-Dichlorobenzene | 10 | 9.50 | ppbv | 95 | | | 70 (70) | 130 (130) | |
| | 1,4-Dichlorobenzene | 10 | 9.40 | ppbv | 94 | | | 70 (70) | 130 (130) | |
| | 1,2-Dichlorobenzene | 10 | 9.50 | ppbv | 95 | | | 70 (70) | 130 (130) | |
| | 1,2,4-Trichlorobenzene | 10 | 9.40 | ppbv | 94 | | | 70 (70) | 130 (130) | |
| | Hexachloro-1,3-butadiene | 10 | 9.10 | ppbv | 91 | | | 70 (70) | 130 (130) | |
| | Naphthalene | 10 | 9.00 | ppbv | 90 | | | 40 (70) | 160 (130) | |
| | 1,3-Butadiene | 10 | 9.10 | ppbv | 91 | | | 70 (70) | 130 (130) | |
| | 4-Ethyltoluene | 10 | 9.60 | ppbv | 96 | | | 70 (70) | 130 (130) | |
| | Hexane | 10 | 9.80 | ppbv | 98 | | | 70 (70) | 130 (130) | |
| | Allyl Chloride | 10 | 9.70 | ppbv | 97 | | | 70 (70) | 130 (130) | |
| | 1,4-Dioxane | 10 | 8.70 | ppbv | 87 | | | 40 (70) | 160 (130) | |
| | Methyl methacrylate | 10 | 9.30 | ppbv | 93 | | | 70 (70) | 130 (130) | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q1665 **Analytical Method:** SWTO-15

**Client:** Woodard & Curran **Datafile :** VL042418.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VL0428ABS01 | Dichlorodifluoromethane | 10 | 10.0 | ppbv | 100 | | | 40 (70) | 160 (130) | |
| | Ethanol | 10 | 3.00 | ppbv | 30 | | * | 70 (70) | 130 (130) | |
| | Chloromethane | 10 | 9.70 | ppbv | 97 | | | 40 (70) | 160 (130) | |
| | Vinyl Chloride | 10 | 8.70 | ppbv | 87 | | | 70 (70) | 130 (130) | |
| | Bromomethane | 10 | 9.40 | ppbv | 94 | | | 40 (70) | 160 (130) | |
| | Chloroethane | 10 | 9.50 | ppbv | 95 | | | 40 (70) | 160 (130) | |
| | Tetrahydrofuran | 10 | 8.40 | ppbv | 84 | | | 70 (70) | 130 (130) | |
| | Trichlorofluoromethane | 10 | 10.0 | ppbv | 100 | | | 40 (70) | 160 (130) | |
| | 1,1,2-Trichlorotrifluoroethane | 10 | 9.60 | ppbv | 96 | | | 70 (70) | 130 (130) | |
| | Dichlorotetrafluoethane | 10 | 10.0 | ppbv | 100 | | | 70 (70) | 130 (130) | |
| | Bromoethene | 10 | 9.60 | ppbv | 96 | | | 70 (70) | 130 (130) | |
| | tert-Butyl Alcohol | 10 | 8.90 | ppbv | 89 | | | 70 (70) | 130 (130) | |
| | Heptane | 10 | 7.60 | ppbv | 76 | | | 70 (70) | 130 (130) | |
| | Isopropyl Alcohol | 10 | 8.80 | ppbv | 88 | | | 70 (70) | 130 (130) | |
| | 1,1-Dichloroethene | 10 | 9.20 | ppbv | 92 | | | 70 (70) | 130 (130) | |
| | Acetone | 10 | 8.60 | ppbv | 86 | | | 40 (70) | 160 (130) | |
| | Carbon disulfide | 10 | 9.40 | ppbv | 94 | | | 40 (70) | 160 (130) | |
| | Methyl tert-butyl Ether | 10 | 8.70 | ppbv | 87 | | | 70 (70) | 130 (130) | |
| | Methylene Chloride | 10 | 7.90 | ppbv | 79 | | | 70 (70) | 130 (130) | |
| | trans-1,2-Dichloroethene | 10 | 9.20 | ppbv | 92 | | | 70 (70) | 130 (130) | |
| | 1,1-Dichloroethane | 10 | 9.40 | ppbv | 94 | | | 70 (70) | 130 (130) | |
| | Cyclohexane | 10 | 8.60 | ppbv | 86 | | | 70 (70) | 130 (130) | |
| | 2-Butanone | 10 | 8.60 | ppbv | 86 | | | 40 (70) | 160 (130) | |
| | Carbon Tetrachloride | 10 | 9.90 | ppbv | 99 | | | 70 (70) | 130 (130) | |
| | cis-1,2-Dichloroethene | 10 | 9.50 | ppbv | 95 | | | 70 (70) | 130 (130) | |
| | Chloroform | 10 | 9.80 | ppbv | 98 | | | 70 (70) | 130 (130) | |
| | 1,1,1-Trichloroethane | 10 | 9.50 | ppbv | 95 | | | 70 (70) | 130 (130) | |
| | 2,2,4-Trimethylpentane | 10 | 8.70 | ppbv | 87 | | | 70 (70) | 130 (130) | |
| | Benzene | 10 | 9.00 | ppbv | 90 | | | 70 (70) | 130 (130) | |
| | 1,2-Dichloroethane | 10 | 10.6 | ppbv | 106 | | | 70 (70) | 130 (130) | |
| | Trichloroethene | 10 | 8.30 | ppbv | 83 | | | 70 (70) | 130 (130) | |
| | 1,2-Dichloropropane | 10 | 8.80 | ppbv | 88 | | | 70 (70) | 130 (130) | |
| | Bromodichloromethane | 10 | 10.2 | ppbv | 102 | | | 70 (70) | 130 (130) | |
| | 4-Methyl-2-Pentanone | 10 | 7.70 | ppbv | 77 | | | 40 (70) | 160 (130) | |
| | Toluene | 10 | 8.90 | ppbv | 89 | | | 70 (70) | 130 (130) | |
| | t-1,3-Dichloropropene | 10 | 9.10 | ppbv | 91 | | | 70 (70) | 130 (130) | |
| | cis-1,3-Dichloropropene | 10 | 9.10 | ppbv | 91 | | | 70 (70) | 130 (130) | |
| | 1,1,2-Trichloroethane | 10 | 9.50 | ppbv | 95 | | | 70 (70) | 130 (130) | |
| | Dibromochloromethane | 10 | 9.80 | ppbv | 98 | | | 70 (70) | 130 (130) | |
| | 1,2-Dibromoethane | 10 | 9.20 | ppbv | 92 | | | 70 (70) | 130 (130) | |
| | Tetrachloroethene | 10 | 8.10 | ppbv | 81 | | | 70 (70) | 130 (130) | |
| | Chlorobenzene | 10 | 9.50 | ppbv | 95 | | | 70 (70) | 130 (130) | |
| | Ethyl Benzene | 10 | 9.30 | ppbv | 93 | | | 70 (70) | 130 (130) | |
| | m/p-Xylene | 20 | 19.0 | ppbv | 95 | | | 70 (70) | 130 (130) | |
| | o-Xylene | 10 | 9.50 | ppbv | 95 | | | 70 (70) | 130 (130) | |
| | Styrene | 10 | 9.10 | ppbv | 91 | | | 70 (70) | 130 (130) | |
| | Bromoform | 10 | 9.20 | ppbv | 92 | | | 70 (70) | 130 (130) | |
| | 1,1,2,2-Tetrachloroethane | 10 | 8.80 | ppbv | 88 | | | 70 (70) | 130 (130) | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q1665 **Analytical Method:** SWTO-15

**Client:** Woodard & Curran **Datafile :** VL042418.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VL0428ABS01 | 2-Chlorotoluene | 10 | 9.60 | ppbv | 96 | | | 70 (70) | 130 (130) | |
| | 1,3,5-Trimethylbenzene | 10 | 9.30 | ppbv | 93 | | | 70 (70) | 130 (130) | |
| | 1,2,4-Trimethylbenzene | 10 | 8.90 | ppbv | 89 | | | 70 (70) | 130 (130) | |
| | 1,3-Dichlorobenzene | 10 | 9.00 | ppbv | 90 | | | 70 (70) | 130 (130) | |
| | 1,4-Dichlorobenzene | 10 | 9.00 | ppbv | 90 | | | 70 (70) | 130 (130) | |
| | 1,2-Dichlorobenzene | 10 | 9.10 | ppbv | 91 | | | 70 (70) | 130 (130) | |
| | 1,2,4-Trichlorobenzene | 10 | 8.70 | ppbv | 87 | | | 70 (70) | 130 (130) | |
| | Hexachloro-1,3-butadiene | 10 | 8.80 | ppbv | 88 | | | 70 (70) | 130 (130) | |
| | Naphthalene | 10 | 8.50 | ppbv | 85 | | | 40 (70) | 160 (130) | |
| | 1,3-Butadiene | 10 | 9.00 | ppbv | 90 | | | 70 (70) | 130 (130) | |
| | 4-Ethyltoluene | 10 | 9.40 | ppbv | 94 | | | 70 (70) | 130 (130) | |
| | Hexane | 10 | 8.10 | ppbv | 81 | | | 70 (70) | 130 (130) | |
| | Allyl Chloride | 10 | 9.00 | ppbv | 90 | | | 70 (70) | 130 (130) | |
| | 1,4-Dioxane | 10 | 8.00 | ppbv | 80 | | | 40 (70) | 160 (130) | |
| | Methyl methacrylate | 10 | 8.30 | ppbv | 83 | | | 70 (70) | 130 (130) | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q1665 **Analytical Method:** SWTO-15

**Client:** Woodard & Curran **Datafile :** VL042438.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VL0429ABS01 | Dichlorodifluoromethane | 10 | 11.6 | ppbv | 116 | | | 40 (70) | 160 (130) | |
| | Ethanol | 10 | 2.90 | ppbv | 29 | | * | 70 (70) | 130 (130) | |
| | Chloromethane | 10 | 11.0 | ppbv | 110 | | | 40 (70) | 160 (130) | |
| | Vinyl Chloride | 10 | 9.60 | ppbv | 96 | | | 70 (70) | 130 (130) | |
| | Bromomethane | 10 | 10.7 | ppbv | 107 | | | 40 (70) | 160 (130) | |
| | Chloroethane | 10 | 10.5 | ppbv | 105 | | | 40 (70) | 160 (130) | |
| | Tetrahydrofuran | 10 | 8.50 | ppbv | 85 | | | 70 (70) | 130 (130) | |
| | Trichlorofluoromethane | 10 | 11.5 | ppbv | 115 | | | 40 (70) | 160 (130) | |
| | 1,1,2-Trichlorotrifluoroethane | 10 | 10.9 | ppbv | 109 | | | 70 (70) | 130 (130) | |
| | Dichlorotetrafluoethane | 10 | 11.2 | ppbv | 112 | | | 70 (70) | 130 (130) | |
| | Bromoethene | 10 | 10.7 | ppbv | 107 | | | 70 (70) | 130 (130) | |
| | tert-Butyl Alcohol | 10 | 9.70 | ppbv | 97 | | | 70 (70) | 130 (130) | |
| | Heptane | 10 | 7.60 | ppbv | 76 | | | 70 (70) | 130 (130) | |
| | Isopropyl Alcohol | 10 | 9.80 | ppbv | 98 | | | 70 (70) | 130 (130) | |
| | 1,1-Dichloroethene | 10 | 10.2 | ppbv | 102 | | | 70 (70) | 130 (130) | |
| | Acetone | 10 | 9.90 | ppbv | 99 | | | 40 (70) | 160 (130) | |
| | Carbon disulfide | 10 | 10.4 | ppbv | 104 | | | 40 (70) | 160 (130) | |
| | Methyl tert-butyl Ether | 10 | 9.30 | ppbv | 93 | | | 70 (70) | 130 (130) | |
| | Methylene Chloride | 10 | 9.00 | ppbv | 90 | | | 70 (70) | 130 (130) | |
| | trans-1,2-Dichloroethene | 10 | 9.90 | ppbv | 99 | | | 70 (70) | 130 (130) | |
| | 1,1-Dichloroethane | 10 | 10.9 | ppbv | 109 | | | 70 (70) | 130 (130) | |
| | Cyclohexane | 10 | 8.60 | ppbv | 86 | | | 70 (70) | 130 (130) | |
| | 2-Butanone | 10 | 9.30 | ppbv | 93 | | | 40 (70) | 160 (130) | |
| | Carbon Tetrachloride | 10 | 11.0 | ppbv | 110 | | | 70 (70) | 130 (130) | |
| | cis-1,2-Dichloroethene | 10 | 9.60 | ppbv | 96 | | | 70 (70) | 130 (130) | |
| | Chloroform | 10 | 10.6 | ppbv | 106 | | | 70 (70) | 130 (130) | |
| | 1,1,1-Trichloroethane | 10 | 10.3 | ppbv | 103 | | | 70 (70) | 130 (130) | |
| | 2,2,4-Trimethylpentane | 10 | 9.00 | ppbv | 90 | | | 70 (70) | 130 (130) | |
| | Benzene | 10 | 9.30 | ppbv | 93 | | | 70 (70) | 130 (130) | |
| | 1,2-Dichloroethane | 10 | 12.0 | ppbv | 120 | | | 70 (70) | 130 (130) | |
| | Trichloroethene | 10 | 8.50 | ppbv | 85 | | | 70 (70) | 130 (130) | |
| | 1,2-Dichloropropane | 10 | 9.00 | ppbv | 90 | | | 70 (70) | 130 (130) | |
| | Bromodichloromethane | 10 | 11.1 | ppbv | 111 | | | 70 (70) | 130 (130) | |
| | 4-Methyl-2-Pentanone | 10 | 7.80 | ppbv | 78 | | | 40 (70) | 160 (130) | |
| | Toluene | 10 | 8.80 | ppbv | 88 | | | 70 (70) | 130 (130) | |
| | t-1,3-Dichloropropene | 10 | 8.90 | ppbv | 89 | | | 70 (70) | 130 (130) | |
| | cis-1,3-Dichloropropene | 10 | 8.80 | ppbv | 88 | | | 70 (70) | 130 (130) | |
| | 1,1,2-Trichloroethane | 10 | 9.90 | ppbv | 99 | | | 70 (70) | 130 (130) | |
| | Dibromochloromethane | 10 | 10.2 | ppbv | 102 | | | 70 (70) | 130 (130) | |
| | 1,2-Dibromoethane | 10 | 9.60 | ppbv | 96 | | | 70 (70) | 130 (130) | |
| | Tetrachloroethene | 10 | 8.00 | ppbv | 80 | | | 70 (70) | 130 (130) | |
| | Chlorobenzene | 10 | 10.3 | ppbv | 103 | | | 70 (70) | 130 (130) | |
| | Ethyl Benzene | 10 | 10.1 | ppbv | 101 | | | 70 (70) | 130 (130) | |
| | m/p-Xylene | 20 | 20.9 | ppbv | 104 | | | 70 (70) | 130 (130) | |
| | o-Xylene | 10 | 10.6 | ppbv | 106 | | | 70 (70) | 130 (130) | |
| | Styrene | 10 | 9.20 | ppbv | 92 | | | 70 (70) | 130 (130) | |
| | Bromoform | 10 | 9.40 | ppbv | 94 | | | 70 (70) | 130 (130) | |
| | 1,1,2,2-Tetrachloroethane | 10 | 9.80 | ppbv | 98 | | | 70 (70) | 130 (130) | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

| | | | |
|---|---|---|---|
| **SDG No.:** | **Q1665** | **Analytical Method:** | **SWTO-15** |
| **Client:** | **Woodard & Curran** | **Datafile :** | VL042438.D |

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| **VL0429ABS01** | 2-Chlorotoluene | 10 | 10.6 | ppbv | 106 | | | 70 (70) | 130 (130) | |
| | 1,3,5-Trimethylbenzene | 10 | 10.4 | ppbv | 104 | | | 70 (70) | 130 (130) | |
| | 1,2,4-Trimethylbenzene | 10 | 9.90 | ppbv | 99 | | | 70 (70) | 130 (130) | |
| | 1,3-Dichlorobenzene | 10 | 9.90 | ppbv | 99 | | | 70 (70) | 130 (130) | |
| | 1,4-Dichlorobenzene | 10 | 9.90 | ppbv | 99 | | | 70 (70) | 130 (130) | |
| | 1,2-Dichlorobenzene | 10 | 10.1 | ppbv | 101 | | | 70 (70) | 130 (130) | |
| | 1,2,4-Trichlorobenzene | 10 | 9.50 | ppbv | 95 | | | 70 (70) | 130 (130) | |
| | Hexachloro-1,3-butadiene | 10 | 10.0 | ppbv | 100 | | | 70 (70) | 130 (130) | |
| | Naphthalene | 10 | 9.40 | ppbv | 94 | | | 40 (70) | 160 (130) | |
| | 1,3-Butadiene | 10 | 9.90 | ppbv | 99 | | | 70 (70) | 130 (130) | |
| | 4-Ethyltoluene | 10 | 10.4 | ppbv | 104 | | | 70 (70) | 130 (130) | |
| | Hexane | 10 | 8.30 | ppbv | 83 | | | 70 (70) | 130 (130) | |
| | Allyl Chloride | 10 | 9.90 | ppbv | 99 | | | 70 (70) | 130 (130) | |
| | 1,4-Dioxane | 10 | 7.50 | ppbv | 75 | | | 40 (70) | 160 (130) | |
| | Methyl methacrylate | 10 | 8.00 | ppbv | 80 | | | 70 (70) | 130 (130) | |

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## Duplicate Sample Summary

| | | | | |
|---|---|---|---|---|
| **Lab Sample Id :** | Q1665-01DUP | | Q1665-01 | |
| **Client Id :** | AA-DUP-1-3242025DUP | | AA-DUP-1-3242025 | |
| **DF :** | 1 | | 1 | |
| **Datafile :** | VL042291.D | | VL042290.D | |
| **Anal Date & Time :** | 04/09/2025 | 14:02 | 04/09/2025 | 13:25 |

| Parameter | Result | Result | RPD |
|---|---|---|---|
| 1,1,1-Trichloroethane | 0 | 0 | 0 |
| 1,1,2,2-Tetrachloroethane | 0 | 0 | 0 |
| 1,1,2-Trichloroethane | 0 | 0 | 0 |
| 1,1,2-Trichlorotrifluoroethane | 0 | 0 | 0 |
| 1,1-Dichloroethane | 0 | 0 | 0 |
| 1,1-Dichloroethene | 0 | 0 | 0 |
| 1,2,4-Trichlorobenzene | 0 | 0 | 0 |
| 1,2,4-Trimethylbenzene | 0 | 0 | 0 |
| 1,2-Dibromoethane | 0 | 0 | 0 |
| 1,2-Dichlorobenzene | 0 | 0 | 0 |
| 1,2-Dichloroethane | 0 | 0 | 0 |
| 1,2-Dichloropropane | 0 | 0 | 0 |
| 1,3,5-Trimethylbenzene | 0 | 0 | 0 |
| 1,3-Butadiene | 0 | 0 | 0 |
| 1,3-Dichlorobenzene | 0 | 0 | 0 |
| 1,4-Dichlorobenzene | 0 | 0 | 0 |
| 1,4-Dioxane | 0 | 0 | 0 |
| 2,2,4-Trimethylpentane | 0 | 0 | 0 |
| 2-Butanone | 0.33 | 0.36 | 8.7 |
| 2-Chlorotoluene | 0 | 0 | 0 |
| 4-Ethyltoluene | 0 | 0 | 0 |
| 4-Methyl-2-Pentanone | 0 | 0 | 0 |
| Acetone | 3.6 | 3.6 | 0 |
| Allyl Chloride | 0 | 0 | 0 |
| Benzene | 0.24 | 0.25 | 4.1 |
| Bromodichloromethane | 0 | 0 | 0 |
| Bromoethene | 0 | 0 | 0 |
| Bromoform | 0 | 0 | 0 |
| Bromomethane | 0 | 0 | 0 |
| Carbon Disulfide | 0 | 0 | 0 |
| | | | |

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## Duplicate Sample Summary

| | | |
|---|---|---|
| **Lab Sample Id :** | Q1665-01DUP | Q1665-01 |
| **Client Id :** | AA-DUP-1-3242025DUP | AA-DUP-1-3242025 |
| **DF :** | 1 | 1 |
| **Datafile :** | VL042291.D | VL042290.D |
| **Anal Date & Time :** | 04/09/2025 14:02 | 04/09/2025 13:25 |

| Parameter | Result | Result | RPD |
|---|---|---|---|
| Carbon Tetrachloride | 0.08 | 0.07 | 13.3 |
| Chlorobenzene | 0 | 0 | 0 |
| Chloroethane | 0 | 0 | 0 |
| Chloroform | 0 | 0 | 0 |
| Chloromethane | 0.55 | 0.56 | 1.8 |
| cis-1,2-Dichloroethene | 0 | 0 | 0 |
| cis-1,3-Dichloropropene | 0 | 0 | 0 |
| Cyclohexane | 0 | 0 | 0 |
| Dibromochloromethane | 0 | 0 | 0 |
| Dichlorodifluoromethane | 0.38 | 0.4 | 5.1 |
| Dichlorotetrafluoroethane | 0 | 0 | 0 |
| Ethanol | 12.8 | 13.4 | 4.6 |
| Ethyl Benzene | 0 | 0 | 0 |
| Heptane | 0.1 | 0.11 | 9.5 |
| Hexachloro-1,3-Butadiene | 0 | 0 | 0 |
| Hexane | 1.4 | 1.6 | 13.3 |
| Isopropyl Alcohol | 1.9 | 1.8 | 5.4 |
| m/p-Xylene | 0.12 | 0 | 200 * |
| Methyl Methacrylate | 0 | 0 | 0 |
| Methyl tert-Butyl Ether | 0 | 0 | 0 |
| Methylene Chloride | 0.95 | 0.95 | 0 |
| Naphthalene | 0 | 0 | 0 |
| o-Xylene | 0 | 0 | 0 |
| Styrene | 0 | 0 | 0 |
| t-1,3-Dichloropropene | 0 | 0 | 0 |
| tert-Butyl alcohol | 0 | 0 | 0 |
| Tetrachloroethene | 0 | 0 | 0 |
| Tetrahydrofuran | 0 | 0 | 0 |
| Toluene | 0.28 | 0.32 | 13.3 |
| trans-1,2-Dichloroethene | 0 | 0 | 0 |
| Trichloroethene | 0 | 0 | 0 |
| | | | |

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## Duplicate Sample Summary

| | | | | |
|---|---|---|---|---|
| **Lab Sample Id :** | Q1665-01DUP | | Q1665-01 | |
| **Client Id :** | AA-DUP-1-3242025DUP | | AA-DUP-1-3242025 | |
| **DF :** | 1 | | 1 | |
| **Datafile :** | VL042291.D | | VL042290.D | |
| **Anal Date & Time :** | 04/09/2025 | 14:02 | 04/09/2025 | 13:25 |

| Parameter | Result | Result | RPD |
|---|---|---|---|
| Trichlorofluoromethane | 0.22 | 0.21 | 4.7 |
| Vinyl Chloride | 0 | 0 | 0 |

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## Duplicate Sample Summary

| | | |
|---|---|---|
| **Lab Sample Id :** | Q1665-03DUP | Q1665-03 |
| **Client Id :** | IA-B10-2-3242025DUP | IA-B10-2-3242025 |
| **DF :** | 1 | 1 |
| **Datafile :** | VL042318.D | VL042317.D |
| **Anal Date & Time :** | 04/11/2025 13:52 | 04/11/2025 13:15 |

| Parameter | Result | Result | RPD |
|---|---|---|---|
| 1,1,1-Trichloroethane | 0 | 0 | 0 |
| 1,1,2,2-Tetrachloroethane | 0 | 0 | 0 |
| 1,1,2-Trichloroethane | 0 | 0 | 0 |
| 1,1,2-Trichlorotrifluoroethane | 0 | 0 | 0 |
| 1,1-Dichloroethane | 0 | 0 | 0 |
| 1,1-Dichloroethene | 0 | 0 | 0 |
| 1,2,4-Trichlorobenzene | 0 | 0 | 0 |
| 1,2,4-Trimethylbenzene | 0.13 | 0.12 | 8 |
| 1,2-Dibromoethane | 0 | 0 | 0 |
| 1,2-Dichlorobenzene | 0 | 0 | 0 |
| 1,2-Dichloroethane | 0 | 0 | 0 |
| 1,2-Dichloropropane | 0 | 0 | 0 |
| 1,3,5-Trimethylbenzene | 0 | 0 | 0 |
| 1,3-Butadiene | 0 | 0 | 0 |
| 1,3-Dichlorobenzene | 0 | 0 | 0 |
| 1,4-Dichlorobenzene | 0 | 0 | 0 |
| 1,4-Dioxane | 0 | 0 | 0 |
| 2,2,4-Trimethylpentane | 0 | 0 | 0 |
| 2-Butanone | 26.6 | 26.8 | 0.75 |
| 2-Chlorotoluene | 0 | 0 | 0 |
| 4-Ethyltoluene | 0 | 0 | 0 |
| 4-Methyl-2-Pentanone | 0 | 0 | 0 |
| Acetone | 82.1 | 82.7 | 0.73 |
| Allyl Chloride | 0 | 0 | 0 |
| Benzene | 0.6 | 0.6 | 0 |
| Bromodichloromethane | 0 | 0 | 0 |
| Bromoethene | 0 | 0 | 0 |
| Bromoform | 0 | 0 | 0 |
| Bromomethane | 0 | 0 | 0 |
| Carbon Disulfide | 0 | 0 | 0 |
| | | | |

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# Duplicate Sample Summary

| | | | | |
|---|---|---|---|---|
| **Lab Sample Id :** | Q1665-03DUP | | Q1665-03 | |
| **Client Id :** | IA-B10-2-3242025DUP | | IA-B10-2-3242025 | |
| **DF :** | 1 | | 1 | |
| **Datafile :** | VL042318.D | | VL042317.D | |
| **Anal Date & Time :** | 04/11/2025 | 13:52 | 04/11/2025 | 13:15 |

| Parameter | Result | Result | RPD |
|---|---|---|---|
| Carbon Tetrachloride | 0.09 | 0.09 | 0 |
| Chlorobenzene | 0 | 0 | 0 |
| Chloroethane | 0 | 0 | 0 |
| Chloroform | 1.4 | 1.4 | 0 |
| Chloromethane | 0.59 | 0.59 | 0 |
| cis-1,2-Dichloroethene | 0 | 0 | 0 |
| cis-1,3-Dichloropropene | 0 | 0 | 0 |
| Cyclohexane | 0 | 0 | 0 |
| Dibromochloromethane | 0 | 0 | 0 |
| Dichlorodifluoromethane | 0.42 | 0.4 | 4.9 |
| Dichlorotetrafluoroethane | 0 | 0 | 0 |
| Ethanol | 1300 | 1300 | 0 |
| Ethyl Benzene | 0 | 0 | 0 |
| Heptane | 0.19 | 0.17 | 11.1 |
| Hexachloro-1,3-Butadiene | 0 | 0 | 0 |
| Hexane | 2.7 | 2.5 | 7.7 |
| Isopropyl Alcohol | 83.2 | 81.1 | 2.6 |
| m/p-Xylene | 0.2 | 0 | 200 * |
| Methyl Methacrylate | 0 | 0 | 0 |
| Methyl tert-Butyl Ether | 0 | 0 | 0 |
| Methylene Chloride | 1.6 | 1.6 | 0 |
| Naphthalene | 0 | 0 | 0 |
| o-Xylene | 0.12 | 0.12 | 0 |
| Styrene | 0 | 0 | 0 |
| t-1,3-Dichloropropene | 0 | 0 | 0 |
| tert-Butyl alcohol | 0.46 | 0.47 | 2.2 |
| Tetrachloroethene | 0.04 | 0.04 | 0 |
| Tetrahydrofuran | 0 | 0 | 0 |
| Toluene | 0.51 | 0.49 | 4 |
| trans-1,2-Dichloroethene | 0 | 0 | 0 |
| Trichloroethene | 0 | 0 | 0 |
| | | | |

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## Duplicate Sample Summary

| | | | | |
|---|---|---|---|---|
| **Lab Sample Id :** | Q1665-03DUP | | Q1665-03 | |
| **Client Id :** | IA-B10-2-3242025DUP | | IA-B10-2-3242025 | |
| **DF :** | 1 | | 1 | |
| **Datafile :** | VL042318.D | | VL042317.D | |
| **Anal Date & Time :** | 04/11/2025 | 13:52 | 04/11/2025 | 13:15 |

| Parameter | Result | Result | RPD |
|---|---|---|---|
| Trichlorofluoromethane | 0.22 | 0.21 | 4.7 |
| Vinyl Chloride | 0 | 0 | 0 |

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# VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0409ABL01

Lab Name: CHEMTECH Contract: WOOD06

Lab Code: CHEM Case No.: Q1665 SAS No.: Q1665 SDG NO.: Q1665

Lab File ID: VL042287.D Lab Sample ID: VL0409ABL01

Date Analyzed: 04/09/2025 Time Analyzed: 11:03

GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_L

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| VL0409ABS02 | VL0409ABS02 | VL042289.D | 04/09/2025 |
| AA-DUP-1-3242025 | Q1665-01 | VL042290.D | 04/09/2025 |
| AA-DUP-1-3242025DUP | Q1665-01DUP | VL042291.D | 04/09/2025 |
| AA-1-3242025 | Q1665-04 | VL042292.D | 04/09/2025 |
| IA-B9-1-3242025 | Q1665-06 | VL042293.D | 04/09/2025 |
| IA-DUP-2-3242025 | Q1665-08 | VL042294.D | 04/09/2025 |
| IA-B9-2-3242025 | Q1665-09 | VL042295.D | 04/09/2025 |
| IA-B9-3-3242025 | Q1665-20 | VL042296.D | 04/09/2025 |

COMMENTS:

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# VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0411ABL01

Lab Name: CHEMTECH Contract: WOOD06

Lab Code: CHEM Case No.: Q1665 SAS No.: Q1665 SDG NO.: Q1665

Lab File ID: VL042313.D Lab Sample ID: VL0411ABL01

Date Analyzed: 04/11/2025 Time Analyzed: 10:36

GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_L

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| VL0411ABS01 | VL0411ABS01 | VL042314.D | 04/11/2025 |
| IA-B10-2-3242025 | Q1665-03 | VL042317.D | 04/11/2025 |
| IA-B10-2-3242025DUP | Q1665-03DUP | VL042318.D | 04/11/2025 |
| IA-B10-4-3242025 | Q1665-10 | VL042319.D | 04/11/2025 |
| IA-B10-1-3242025 | Q1665-11 | VL042320.D | 04/11/2025 |
| IA-B10-3-3242025 | Q1665-18 | VL042321.D | 04/11/2025 |
| IA-B10-2-3242025DL | Q1665-03DL | VL042322.D | 04/11/2025 |
| IA-B10-4-3242025DL | Q1665-10DL | VL042323.D | 04/11/2025 |
| IA-B10-1-3242025DL | Q1665-11DL | VL042324.D | 04/11/2025 |

COMMENTS:

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# VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0415ABL01

Lab Name: CHEMTECH Contract: WOOD06

Lab Code: CHEM Case No.: Q1665 SAS No.: Q1665 SDG NO.: Q1665

Lab File ID: VL042327.D Lab Sample ID: VL0415ABL01

Date Analyzed: 04/15/2025 Time Analyzed: 12:12

GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_L

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| VL0415ABS01 | VL0415ABS01 | VL042328.D | 04/15/2025 |
| IA-B10-3-3242025DL | Q1665-18DL | VL042331.D | 04/15/2025 |
| IA-B10-4-3242025DL2 | Q1665-10DL2 | VL042332.D | 04/15/2025 |

COMMENTS:

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# VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0417ABL01

Lab Name: CHEMTECH Contract: WOOD06

Lab Code: CHEM Case No.: Q1665 SAS No.: Q1665 SDG NO.: Q1665

Lab File ID: VL042357.D Lab Sample ID: VL0417ABL01

Date Analyzed: 04/17/2025 Time Analyzed: 14:23

GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_L

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| VL0417ABS01 | VL0417ABS01 | VL042358.D | 04/17/2025 |
| IA-B14-1-3242025 | Q1665-15 | VL042359.D | 04/17/2025 |
| IA-B14-1-3242025DL | Q1665-15DL | VL042360.D | 04/17/2025 |

COMMENTS:

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# VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0428ABL01

Lab Name: CHEMTECH Contract: WOOD06

Lab Code: CHEM Case No.: Q1665 SAS No.: Q1665 SDG NO.: Q1665

Lab File ID: VL042417.D Lab Sample ID: VL0428ABL01

Date Analyzed: 04/28/2025 Time Analyzed: 09:27

GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_L

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| VL0428ABS01 | VL0428ABS01 | VL042418.D | 04/28/2025 |
| IA-B2-3-3242025 | Q1665-05 | VL042419.D | 04/28/2025 |
| IA-DUP-1-3242025 | Q1665-07 | VL042420.D | 04/28/2025 |
| IA-B2-6-3242025 | Q1665-12 | VL042421.D | 04/28/2025 |
| IA-B2-5-3242025 | Q1665-16 | VL042422.D | 04/28/2025 |
| IA-B2-2-3242025 | Q1665-19 | VL042423.D | 04/28/2025 |
| IA-B2-1-3242025 | Q1665-21 | VL042424.D | 04/28/2025 |
| IA-B2-4-3242025 | Q1665-22 | VL042425.D | 04/28/2025 |

COMMENTS:

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# VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0429ABL01

Lab Name: CHEMTECH Contract: WOOD06

Lab Code: CHEM Case No.: Q1665 SAS No.: Q1665 SDG NO.: Q1665

Lab File ID: VL042437.D Lab Sample ID: VL0429ABL01

Date Analyzed: 04/29/2025 Time Analyzed: 09:25

GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_L

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| VL0429ABS01 | VL0429ABS01 | VL042438.D | 04/29/2025 |
| IA-DUP-1-3242025DL | Q1665-07DL | VL042451.D | 04/29/2025 |
| IA-B2-2-3242025DL | Q1665-19DL | VL042452.D | 04/29/2025 |
| IA-B2-1-3242025DL | Q1665-21DL | VL042453.D | 04/29/2025 |

COMMENTS:

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# VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: WOOD06

Lab Code: CHEM Case No.: Q1665 SAS No.: Q1665 SDG NO.: Q1665

Lab File ID: VL042171.D BFB Injection Date: 03/27/2025

Instrument ID: MSVOA_L BFB Injection Time: 07:44

GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: Y/N N

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 8.0 - 40.0% of mass 95 | 23 |
| 75 | 30.0 - 66.0% of mass 95 | 56.3 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.6 |
| 173 | Less than 2.0% of mass 174 | 0.0 ( 0.0 ) 1 |
| 174 | 50.0 - 120.0% of mass 95 | 63.8 |
| 175 | 4.0 - 9.0% of mass 174 | 5.1 ( 8 ) 1 |
| 176 | 93.0 - 101.0% of mass 174 | 61.1 ( 95.7 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.2 ( 6.8 ) 2 |

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDICCC010 | VSTDICCC010 | VL042172.D | 03/27/2025 | 08:26 |
| VSTDICC002 | VSTDICC002 | VL042173.D | 03/27/2025 | 08:59 |
| VSTDICC001 | VSTDICC001 | VL042174.D | 03/27/2025 | 09:30 |
| VSTDICC0.5 | VSTDICC0.5 | VL042175.D | 03/27/2025 | 10:01 |
| VSTDICC0.1 | VSTDICC0.1 | VL042176.D | 03/27/2025 | 10:32 |
| VSTDICC0.03 | VSTDICC0.03 | VL042177.D | 03/27/2025 | 11:03 |
| VSTDICC015 | VSTDICC015 | VL042178.D | 03/27/2025 | 11:36 |

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# VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: WOOD06

Lab Code: CHEM Case No.: Q1665 SAS No.: Q1665 SDG NO.: Q1665

Lab File ID: VL042285.D BFB Injection Date: 04/09/2025

Instrument ID: MSVOA_L BFB Injection Time: 09:38

GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: Y/N N

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 8.0 - 40.0% of mass 95 | 23.2 |
| 75 | 30.0 - 66.0% of mass 95 | 57.1 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.8 |
| 173 | Less than 2.0% of mass 174 | 0.5 ( 0.8 ) 1 |
| 174 | 50.0 - 120.0% of mass 95 | 61.3 |
| 175 | 4.0 - 9.0% of mass 174 | 4.2 ( 6.9 ) 1 |
| 176 | 93.0 - 101.0% of mass 174 | 57.5 ( 93.9 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 3.7 ( 6.4 ) 2 |

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDCCC010 | VSTDCCC010 | VL042286.D | 04/09/2025 | 10:20 |
| VL0409ABL01 | VL0409ABL01 | VL042287.D | 04/09/2025 | 11:03 |
| VL0409ABS02 | VL0409ABS02 | VL042289.D | 04/09/2025 | 12:31 |
| AA-DUP-1-3242025 | Q1665-01 | VL042290.D | 04/09/2025 | 13:25 |
| AA-DUP-1-3242025DUP | Q1665-01DUP | VL042291.D | 04/09/2025 | 14:02 |
| AA-1-3242025 | Q1665-04 | VL042292.D | 04/09/2025 | 14:36 |
| IA-B9-1-3242025 | Q1665-06 | VL042293.D | 04/09/2025 | 15:15 |
| IA-DUP-2-3242025 | Q1665-08 | VL042294.D | 04/09/2025 | 15:50 |
| IA-B9-2-3242025 | Q1665-09 | VL042295.D | 04/09/2025 | 16:23 |
| IA-B9-3-3242025 | Q1665-20 | VL042296.D | 04/09/2025 | 16:57 |

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# VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: WOOD06

Lab Code: CHEM Case No.: Q1665 SAS No.: Q1665 SDG NO.: Q1665

Lab File ID: VL042311.D BFB Injection Date: 04/11/2025

Instrument ID: MSVOA_L BFB Injection Time: 08:18

GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: Y/N N

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 8.0 - 40.0% of mass 95 | 24.4 |
| 75 | 30.0 - 66.0% of mass 95 | 57.3 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.6 |
| 173 | Less than 2.0% of mass 174 | 0.3 ( 0.5 ) 1 |
| 174 | 50.0 - 120.0% of mass 95 | 61.1 |
| 175 | 4.0 - 9.0% of mass 174 | 4.6 ( 7.5 ) 1 |
| 176 | 93.0 - 101.0% of mass 174 | 57.9 ( 94.7 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 3.8 ( 6.6 ) 2 |

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDCCC010 | VSTDCCC010 | VL042312.D | 04/11/2025 | 09:50 |
| VL0411ABL01 | VL0411ABL01 | VL042313.D | 04/11/2025 | 10:36 |
| VL0411ABS01 | VL0411ABS01 | VL042314.D | 04/11/2025 | 11:23 |
| IA-B10-2-3242025 | Q1665-03 | VL042317.D | 04/11/2025 | 13:15 |
| IA-B10-2-3242025DUP | Q1665-03DUP | VL042318.D | 04/11/2025 | 13:52 |
| IA-B10-4-3242025 | Q1665-10 | VL042319.D | 04/11/2025 | 14:27 |
| IA-B10-1-3242025 | Q1665-11 | VL042320.D | 04/11/2025 | 15:01 |
| IA-B10-3-3242025 | Q1665-18 | VL042321.D | 04/11/2025 | 15:36 |
| IA-B10-2-3242025DL | Q1665-03DL | VL042322.D | 04/11/2025 | 16:08 |
| IA-B10-4-3242025DL | Q1665-10DL | VL042323.D | 04/11/2025 | 16:39 |
| IA-B10-1-3242025DL | Q1665-11DL | VL042324.D | 04/11/2025 | 17:10 |

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# VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: WOOD06

Lab Code: CHEM Case No.: Q1665 SAS No.: Q1665 SDG NO.: Q1665

Lab File ID: VL042325.D BFB Injection Date: 04/15/2025

Instrument ID: MSVOA_L BFB Injection Time: 07:45

GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: Y/N N

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 8.0 - 40.0% of mass 95 | 24 |
| 75 | 30.0 - 66.0% of mass 95 | 55.5 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.7 |
| 173 | Less than 2.0% of mass 174 | 0.8 ( 1.3 ) 1 |
| 174 | 50.0 - 120.0% of mass 95 | 62.4 |
| 175 | 4.0 - 9.0% of mass 174 | 4.3 ( 6.8 ) 1 |
| 176 | 93.0 - 101.0% of mass 174 | 59.1 ( 94.8 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 3.7 ( 6.2 ) 2 |

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDCCC010 | VSTDCCC010 | VL042326.D | 04/15/2025 | 11:30 |
| VL0415ABL01 | VL0415ABL01 | VL042327.D | 04/15/2025 | 12:12 |
| VL0415ABS01 | VL0415ABS01 | VL042328.D | 04/15/2025 | 12:54 |
| IA-B10-3-3242025DL | Q1665-18DL | VL042331.D | 04/15/2025 | 14:29 |
| IA-B10-4-3242025DL2 | Q1665-10DL2 | VL042332.D | 04/15/2025 | 15:01 |

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# VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: WOOD06

Lab Code: CHEM Case No.: Q1665 SAS No.: Q1665 SDG NO.: Q1665

Lab File ID: VL042348.D BFB Injection Date: 04/17/2025

Instrument ID: MSVOA_L BFB Injection Time: 07:50

GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: Y/N N

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 8.0 - 40.0% of mass 95 | 23.1 |
| 75 | 30.0 - 66.0% of mass 95 | 57 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.8 |
| 173 | Less than 2.0% of mass 174 | 0.0 ( 0.0 ) 1 |
| 174 | 50.0 - 120.0% of mass 95 | 59.5 |
| 175 | 4.0 - 9.0% of mass 174 | 4.5 ( 7.6 ) 1 |
| 176 | 93.0 - 101.0% of mass 174 | 57.6 ( 96.9 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 3.6 ( 6.3 ) 2 |

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDICCC010 | VSTDICCC010 | VL042349.D | 04/17/2025 | 09:44 |
| VSTDICC002 | VSTDICC002 | VL042350.D | 04/17/2025 | 10:17 |
| VSTDICC001 | VSTDICC001 | VL042351.D | 04/17/2025 | 10:48 |
| VSTDICC0.5 | VSTDICC0.5 | VL042352.D | 04/17/2025 | 11:19 |
| VSTDICC0.1 | VSTDICC0.1 | VL042353.D | 04/17/2025 | 11:50 |
| VSTDICC0.03 | VSTDICC0.03 | VL042354.D | 04/17/2025 | 12:22 |
| VSTDICC015 | VSTDICC015 | VL042355.D | 04/17/2025 | 12:54 |
| VL0417ABL01 | VL0417ABL01 | VL042357.D | 04/17/2025 | 14:23 |
| VL0417ABS01 | VL0417ABS01 | VL042358.D | 04/17/2025 | 15:39 |
| IA-B14-1-3242025 | Q1665-15 | VL042359.D | 04/17/2025 | 16:12 |
| IA-B14-1-3242025DL | Q1665-15DL | VL042360.D | 04/17/2025 | 16:44 |

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# VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: WOOD06

Lab Code: CHEM Case No.: Q1665 SAS No.: Q1665 SDG NO.: Q1665

Lab File ID: VL042415.D BFB Injection Date: 04/28/2025

Instrument ID: MSVOA_L BFB Injection Time: 07:59

GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: Y/N N

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 8.0 - 40.0% of mass 95 | 24.1 |
| 75 | 30.0 - 66.0% of mass 95 | 62.3 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.4 |
| 173 | Less than 2.0% of mass 174 | 0.1 ( 0.2 ) 1 |
| 174 | 50.0 - 120.0% of mass 95 | 53.8 |
| 175 | 4.0 - 9.0% of mass 174 | 3.9 ( 7.3 ) 1 |
| 176 | 93.0 - 101.0% of mass 174 | 53.9 ( 100.2) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 3.3 ( 6.1 ) 2 |

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDCCC010 | VSTDCCC010 | VL042416.D | 04/28/2025 | 08:44 |
| VL0428ABL01 | VL0428ABL01 | VL042417.D | 04/28/2025 | 09:27 |
| VL0428ABS01 | VL0428ABS01 | VL042418.D | 04/28/2025 | 10:10 |
| IA-B2-3-3242025 | Q1665-05 | VL042419.D | 04/28/2025 | 10:59 |
| IA-DUP-1-3242025 | Q1665-07 | VL042420.D | 04/28/2025 | 11:33 |
| IA-B2-6-3242025 | Q1665-12 | VL042421.D | 04/28/2025 | 12:17 |
| IA-B2-5-3242025 | Q1665-16 | VL042422.D | 04/28/2025 | 12:51 |
| IA-B2-2-3242025 | Q1665-19 | VL042423.D | 04/28/2025 | 13:26 |
| IA-B2-1-3242025 | Q1665-21 | VL042424.D | 04/28/2025 | 14:00 |
| IA-B2-4-3242025 | Q1665-22 | VL042425.D | 04/28/2025 | 14:34 |

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# VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: WOOD06

Lab Code: CHEM Case No.: Q1665 SAS No.: Q1665 SDG NO.: Q1665

Lab File ID: VL042435.D BFB Injection Date: 04/29/2025

Instrument ID: MSVOA_L BFB Injection Time: 07:55

GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: Y/N N

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 8.0 - 40.0% of mass 95 | 26.5 |
| 75 | 30.0 - 66.0% of mass 95 | 65.6 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 7.1 |
| 173 | Less than 2.0% of mass 174 | 0.6 ( 1.1 ) 1 |
| 174 | 50.0 - 120.0% of mass 95 | 51.1 |
| 175 | 4.0 - 9.0% of mass 174 | 3.7 ( 7.3 ) 1 |
| 176 | 93.0 - 101.0% of mass 174 | 50.1 ( 98 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 3.5 ( 7 ) 2 |

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDCCC010 | VSTDCCC010 | VL042436.D | 04/29/2025 | 08:39 |
| VL0429ABL01 | VL0429ABL01 | VL042437.D | 04/29/2025 | 09:25 |
| VL0429ABS01 | VL0429ABS01 | VL042438.D | 04/29/2025 | 10:08 |
| IA-DUP-1-3242025DL | Q1665-07DL | VL042451.D | 04/29/2025 | 17:37 |
| IA-B2-2-3242025DL | Q1665-19DL | VL042452.D | 04/29/2025 | 18:09 |
| IA-B2-1-3242025DL | Q1665-21DL | VL042453.D | 04/29/2025 | 18:42 |

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## VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: WOOD06

Lab Code: CHEM Case No.: Q1665 SAS No.: Q1665 SDG NO.: Q1665

Lab File ID: VL042286.D Date Analyzed: 04/09/2025

Instrument ID: MSVOA_L Time Analyzed: 10:20

GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

| | IS1 AREA # | RT # | IS2 AREA # | RT # | IS3 AREA # | RT # |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 155631 | 2.78 | 397176 | 3.96 | 350140 | 8.88 |
| UPPER LIMIT | 217883 | 3.11 | 556046 | 4.29 | 490196 | 9.21 |
| LOWER LIMIT | 93378.6 | 2.45 | 238306 | 3.63 | 210084 | 8.55 |
| EPA SAMPLE NO. | | | | | | |
| AA-DUP-1-3242025 | 159221 | 2.78 | 408039 | 3.95 | 345931 | 8.88 |
| AA-DUP-1-3242025DUP | 156655 | 2.78 | 397453 | 3.95 | 332015 | 8.88 |
| AA-1-3242025 | 157856 | 2.78 | 383411 | 3.96 | 331322 | 8.88 |
| IA-B9-1-3242025 | 162172 | 2.78 | 394727 | 3.95 | 338809 | 8.88 |
| IA-DUP-2-3242025 | 159184 | 2.79 | 384747 | 3.96 | 314874 | 8.88 |
| IA-B9-2-3242025 | 157163 | 2.79 | 385586 | 3.96 | 326865 | 8.88 |
| IA-B9-3-3242025 | 161865 | 2.79 | 384782 | 3.96 | 329132 | 8.88 |
| VL0409ABL01 | 156784 | 2.78 | 391570 | 3.96 | 334054 | 8.88 |
| VL0409ABS02 | 160536 | 2.78 | 421845 | 3.95 | 368487 | 8.88 |

IS1 = Bromochloromethane
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +40% of internal standard area
AREA LOWER LIMIT = -40% of internal standard area
RT UPPER LIMIT = +0.33 minutes of internal standard RT
RT LOWER LIMIT = -0.33 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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## VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: WOOD06

Lab Code: CHEM Case No.: Q1665 SAS No.: Q1665 SDG NO.: Q1665

Lab File ID: VL042312.D Date Analyzed: 04/11/2025

Instrument ID: MSVOA_L Time Analyzed: 09:50

GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

| | IS1 AREA # | RT # | IS2 AREA # | RT # | IS3 AREA # | RT # |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 183700 | 2.79 | 463746 | 3.96 | 401340 | 8.89 |
| UPPER LIMIT | 257180 | 3.12 | 649244 | 4.29 | 561876 | 9.22 |
| LOWER LIMIT | 110220 | 2.46 | 278248 | 3.63 | 240804 | 8.56 |
| EPA SAMPLE NO. | | | | | | |
| IA-B10-2-3242025 | 179309 | 2.79 | 422807 | 3.97 | 360993 | 8.89 |
| IA-B10-2-3242025DL | 183437 | 2.79 | 437835 | 3.97 | 360512 | 8.89 |
| IA-B10-2-3242025DUP | 183054 | 2.79 | 442590 | 3.96 | 380933 | 8.88 |
| IA-B10-4-3242025 | 190778 | 2.79 | 461210 | 3.96 | 383940 | 8.89 |
| IA-B10-4-3242025DL | 173105 | 2.79 | 400666 | 3.96 | 338211 | 8.89 |
| IA-B10-1-3242025 | 183875 | 2.79 | 460651 | 3.96 | 381290 | 8.88 |
| IA-B10-1-3242025DL | 176603 | 2.79 | 398133 | 3.97 | 325777 | 8.89 |
| IA-B10-3-3242025 | 184452 | 2.79 | 454008 | 3.96 | 391031 | 8.88 |
| VL0411ABL01 | 180225 | 2.79 | 445487 | 3.96 | 373548 | 8.89 |
| VL0411ABS01 | 178456 | 2.78 | 444353 | 3.96 | 386060 | 8.88 |

IS1 = Bromochloromethane
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +40% of internal standard area
AREA LOWER LIMIT = -40% of internal standard area
RT UPPER LIMIT = +0.33 minutes of internal standard RT
RT LOWER LIMIT = -0.33 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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## VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: WOOD06

Lab Code: CHEM Case No.: Q1665 SAS No.: Q1665 SDG NO.: Q1665

Lab File ID: VL042326.D Date Analyzed: 04/15/2025

Instrument ID: MSVOA_L Time Analyzed: 11:30

GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

| | IS1 AREA # | RT # | IS2 AREA # | RT # | IS3 AREA # | RT # |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 172263 | 2.81 | 457227 | 3.99 | 411493 | 8.91 |
| UPPER LIMIT | 241168 | 3.14 | 640118 | 4.32 | 576090 | 9.24 |
| LOWER LIMIT | 103358 | 2.48 | 274336 | 3.66 | 246896 | 8.58 |
| EPA SAMPLE NO. | | | | | | |
| IA-B10-4-3242025DL2 | 164444 | 2.81 | 385228 | 4.00 | 327587 | 8.92 |
| IA-B10-3-3242025DL | 168977 | 2.81 | 401158 | 3.99 | 339800 | 8.91 |
| VL0415ABL01 | 173729 | 2.81 | 447320 | 3.99 | 385318 | 8.92 |
| VL0415ABS01 | 171986 | 2.81 | 444595 | 3.99 | 399604 | 8.92 |

IS1 = Bromochloromethane
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +40% of internal standard area
AREA LOWER LIMIT = -40% of internal standard area
RT UPPER LIMIT = +0.33 minutes of internal standard RT
RT LOWER LIMIT = -0.33 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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## VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: WOOD06

Lab Code: CHEM Case No.: Q1665 SAS No.: Q1665 SDG NO.: Q1665

Lab File ID: VL042349.D Date Analyzed: 04/17/2025

Instrument ID: MSVOA_L Time Analyzed: 09:44

GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

| | IS1 AREA # | RT # | IS2 AREA # | RT # | IS3 AREA # | RT # |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 125455 | 2.79 | 366544 | 3.96 | 338126 | 8.88 |
| UPPER LIMIT | 175637 | 3.12 | 513162 | 4.29 | 473376 | 9.21 |
| LOWER LIMIT | 75273 | 2.46 | 219926 | 3.63 | 202876 | 8.55 |
| EPA SAMPLE NO. | | | | | | |
| IA-B14-1-3242025 | 123457 | 2.79 | 354157 | 3.96 | 318284 | 8.88 |
| IA-B14-1-3242025DL | 121918 | 2.79 | 347081 | 3.96 | 308280 | 8.88 |
| VL0417ABL01 | 113566 | 2.79 | 328716 | 3.97 | 297633 | 8.89 |
| VL0417ABS01 | 122375 | 2.79 | 352201 | 3.97 | 321521 | 8.89 |

IS1 = Bromochloromethane
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +40% of internal standard area
AREA LOWER LIMIT = -40% of internal standard area
RT UPPER LIMIT = +0.33 minutes of internal standard RT
RT LOWER LIMIT = -0.33 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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## VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: WOOD06

Lab Code: CHEM Case No.: Q1665 SAS No.: Q1665 SDG NO.: Q1665

Lab File ID: VL042416.D Date Analyzed: 04/28/2025

Instrument ID: MSVOA_L Time Analyzed: 08:44

GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

| | IS1 AREA # | RT # | IS2 AREA # | RT # | IS3 AREA # | RT # |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 121989 | 2.78 | 345031 | 3.96 | 305240 | 8.88 |
| UPPER LIMIT | 170785 | 3.11 | 483043 | 4.29 | 427336 | 9.21 |
| LOWER LIMIT | 73193.4 | 2.45 | 207019 | 3.63 | 183144 | 8.55 |
| EPA SAMPLE NO. | | | | | | |
| IA-B2-3-3242025 | 141298 | 2.78 | 401917 | 3.95 | 351139 | 8.88 |
| IA-DUP-1-3242025 | 141186 | 2.78 | 402115 | 3.95 | 352885 | 8.87 |
| IA-B2-6-3242025 | 140992 | 2.78 | 398020 | 3.95 | 341014 | 8.88 |
| IA-B2-5-3242025 | 143445 | 2.78 | 401346 | 3.95 | 346372 | 8.87 |
| IA-B2-2-3242025 | 134276 | 2.78 | 394249 | 3.95 | 337638 | 8.88 |
| IA-B2-1-3242025 | 134924 | 2.78 | 377834 | 3.96 | 330143 | 8.88 |
| IA-B2-4-3242025 | 133015 | 2.78 | 381932 | 3.96 | 330693 | 8.88 |
| VL0428ABL01 | 121027 | 2.78 | 346921 | 3.95 | 302157 | 8.87 |
| VL0428ABS01 | 122448 | 2.78 | 337202 | 3.95 | 299130 | 8.88 |

IS1 = Bromochloromethane
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +40% of internal standard area
AREA LOWER LIMIT = -40% of internal standard area
RT UPPER LIMIT = +0.33 minutes of internal standard RT
RT LOWER LIMIT = -0.33 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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## VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: WOOD06

Lab Code: CHEM Case No.: Q1665 SAS No.: Q1665 SDG NO.: Q1665

Lab File ID: VL042436.D Date Analyzed: 04/29/2025

Instrument ID: MSVOA_L Time Analyzed: 08:39

GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

| | IS1 AREA # | RT # | IS2 AREA # | RT # | IS3 AREA # | RT # |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 114553 | 2.78 | 311268 | 3.95 | 269987 | 8.88 |
| UPPER LIMIT | 160374 | 3.11 | 435775 | 4.28 | 377982 | 9.21 |
| LOWER LIMIT | 68731.8 | 2.45 | 186761 | 3.62 | 161992 | 8.55 |
| EPA SAMPLE NO. | | | | | | |
| IA-DUP-1-3242025DL | 116268 | 2.80 | 307149 | 3.97 | 260772 | 8.90 |
| IA-B2-2-3242025DL | 114403 | 2.79 | 305602 | 3.97 | 261578 | 8.90 |
| IA-B2-1-3242025DL | 114227 | 2.80 | 302811 | 3.97 | 257605 | 8.90 |
| VL0429ABL01 | 119014 | 2.79 | 328601 | 3.96 | 276498 | 8.89 |
| VL0429ABS01 | 116772 | 2.79 | 317590 | 3.96 | 272312 | 8.88 |

IS1 = Bromochloromethane
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +40% of internal standard area
AREA LOWER LIMIT = -40% of internal standard area
RT UPPER LIMIT = +0.33 minutes of internal standard RT
RT LOWER LIMIT = -0.33 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

# SAMPLE DATA

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | AA-DUP-1-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-01 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042290.D | 1 | | 04/09/25 13:25 | VL040925 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.40 | 1.98 | J | 1.04 | 2.47 | ug/m3 |
| 64-17-5 | Ethanol | 13.4 | 25.3 | Q | 0.60 | 0.94 | ug/m3 |
| 74-87-3 | Chloromethane | 0.56 | 1.16 | | 0.21 | 1.03 | ug/m3 |
| 75-01-4 | Vinyl Chloride | 0.010 | 0.030 | U | 0.030 | 0.080 | ug/m3 |
| 74-83-9 | Bromomethane | 0.14 | 0.54 | U | 0.54 | 1.94 | ug/m3 |
| 75-00-3 | Chloroethane | 0.17 | 0.45 | U | 0.45 | 1.32 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | 0.13 | 0.38 | U | 0.38 | 1.47 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | 0.21 | 1.18 | J | 0.90 | 2.81 | ug/m3 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.16 | 1.23 | U | 1.23 | 3.83 | ug/m3 |
| 76-14-2 | Dichlorotetrafluoroethane | 0.090 | 0.63 | U | 0.63 | 3.49 | ug/m3 |
| 593-60-2 | Bromoethene | 0.12 | 0.52 | U | 0.52 | 2.19 | ug/m3 |
| 75-65-0 | tert-Butyl alcohol | 0.19 | 0.58 | U | 0.58 | 1.52 | ug/m3 |
| 142-82-5 | Heptane | 0.11 | 0.45 | J | 0.45 | 2.05 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | 1.80 | 4.42 | | 0.17 | 1.23 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethene | 0.14 | 0.56 | U | 0.56 | 1.98 | ug/m3 |
| 67-64-1 | Acetone | 3.60 | 8.55 | | 0.57 | 1.19 | ug/m3 |
| 75-15-0 | Carbon Disulfide | 0.16 | 0.50 | U | 0.50 | 1.56 | ug/m3 |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.12 | 0.43 | U | 0.43 | 1.80 | ug/m3 |
| 75-09-2 | Methylene Chloride | 0.95 | 3.30 | | 0.66 | 1.74 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.19 | 0.75 | U | 0.75 | 1.98 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | 0.13 | 0.53 | U | 0.53 | 2.02 | ug/m3 |
| 110-82-7 | Cyclohexane | 0.22 | 0.76 | U | 0.76 | 1.72 | ug/m3 |
| 78-93-3 | 2-Butanone | 0.36 | 1.06 | J | 0.35 | 1.47 | ug/m3 |
| 56-23-5 | Carbon Tetrachloride | 0.070 | 0.44 | | 0.060 | 0.19 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.090 | 0.36 | U | 0.36 | 1.98 | ug/m3 |
| 67-66-3 | Chloroform | 0.080 | 0.39 | U | 0.39 | 2.44 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.010 | 0.050 | U | 0.050 | 0.16 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | 0.10 | 0.47 | U | 0.47 | 2.34 | ug/m3 |
| 71-43-2 | Benzene | 0.25 | 0.80 | J | 0.29 | 1.60 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | 0.090 | 0.36 | U | 0.36 | 2.02 | ug/m3 |
| 79-01-6 | Trichloroethene | 0.020 | 0.11 | U | 0.11 | 0.16 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | 0.11 | 0.51 | U | 0.51 | 2.31 | ug/m3 |
| 75-27-4 | Bromodichloromethane | 0.080 | 0.54 | U | 0.54 | 3.35 | ug/m3 |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.090 | 0.37 | U | 0.37 | 2.05 | ug/m3 |
| 108-88-3 | Toluene | 0.32 | 1.21 | J | 0.41 | 1.88 | ug/m3 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | AA-DUP-1-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-01 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042290.D | 1 | | 04/09/25 13:25 | VL040925 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.060 | 0.27 | U | 0.27 | 2.27 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.060 | 0.27 | U | 0.27 | 2.27 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.070 | 0.38 | U | 0.38 | 2.73 | ug/m3 |
| 124-48-1 | Dibromochloromethane | 0.070 | 0.60 | U | 0.60 | 4.26 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane | 0.070 | 0.54 | U | 0.54 | 0.77 | ug/m3 |
| 127-18-4 | Tetrachloroethene | 0.020 | 0.14 | U | 0.14 | 0.20 | ug/m3 |
| 108-90-7 | Chlorobenzene | 0.080 | 0.37 | U | 0.37 | 2.30 | ug/m3 |
| 100-41-4 | Ethyl Benzene | 0.12 | 0.52 | U | 0.52 | 2.17 | ug/m3 |
| 179601-23-1 | m/p-Xylene | 0.21 | 0.91 | U | 0.91 | 4.34 | ug/m3 |
| 95-47-6 | o-Xylene | 0.12 | 0.52 | U | 0.52 | 2.17 | ug/m3 |
| 100-42-5 | Styrene | 0.11 | 0.47 | U | 0.47 | 2.13 | ug/m3 |
| 75-25-2 | Bromoform | 0.060 | 0.62 | U | 0.62 | 5.17 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.010 | 0.070 | U | 0.070 | 0.21 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | 0.11 | 0.57 | U | 0.57 | 2.59 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.11 | 0.54 | U | 0.54 | 2.46 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.080 | 0.39 | U | 0.39 | 2.46 | ug/m3 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.080 | 0.48 | U | 0.48 | 3.01 | ug/m3 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.050 | 0.30 | U | 0.30 | 3.01 | ug/m3 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.080 | 0.48 | U | 0.48 | 3.01 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.090 | 0.67 | U | 0.67 | 3.71 | ug/m3 |
| 87-68-3 | Hexachloro-1,3-Butadiene | 0.090 | 0.96 | U | 0.96 | 5.33 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | 0.13 | 0.29 | U | 0.29 | 1.11 | ug/m3 |
| 91-20-3 | Naphthalene | 0.080 | 0.42 | U | 0.42 | 0.52 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | 0.12 | 0.59 | U | 0.59 | 2.46 | ug/m3 |
| 110-54-3 | Hexane | 1.60 | 5.64 | | 0.39 | 1.76 | ug/m3 |
| 107-05-1 | Allyl Chloride | 0.15 | 0.47 | U | 0.47 | 1.57 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | 0.21 | 0.76 | U | 0.76 | 1.80 | ug/m3 |
| 80-62-6 | Methyl Methacrylate | 0.090 | 0.37 | U | 0.37 | 2.05 | ug/m3 |
| **SURROGATES** | | | | | | | |
| 460-00-4 | 1-Bromo-4-Fluorobenzene | 9.10 | | | 70 (65) - 130 (135) | 91% | SPK: 10 |
| **INTERNAL STANDARDS** | | | | | | | |
| 74-97-5 | Bromochloromethane | 159000 | | 2.784 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 408000 | | 3.952 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 346000 | | 8.875 | | | |
| **TENTITIVE IDENTIFIED COMPOUNDS** | | | | | | | |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | AA-DUP-1-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-01 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042290.D | 1 | | 04/09/25 13:25 | VL040925 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 75-45-6 | Chlorodifluoromethane | 0.33 | | J | | 1.47 | ppbv |
| 115-07-1 | Propene | 0.85 | | J | | 1.49 | ppbv |
| 000106-97-8 | Butane | 1.10 | | J | | 1.62 | ppbv |

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042290.D
Acq On : 09 Apr 2025 13:25
Operator : SY/MD
Sample : Q1665-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 01:43:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) Bromochloromethane | 2.784 | 49 | 159221 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.952 | 114 | 408039 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.875 | 117 | 345931 | 10.000 | ppbv | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.371 | 95 | 258960 | 9.116 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 91.200% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.496 | 85 | 9289 | 0.395 | ppbv | | 96 |
| 3) Chlorodifluoromethane | 1.473 | 51 | 7907m | 0.329 | ppbv | | |
| 4) Chloromethane | 1.531 | 50 | 5425 | 0.565 | ppbv | | 93 |
| 9) Propene | 1.486 | 41 | 9320 | 0.847 | ppbv | # | 80 |
| 10) Heptane | 4.972 | 43 | 3212m | 0.110 | ppbv | | |
| 11) Trichlorofluoromethane | 1.874 | 101 | 4760 | 0.208 | ppbv | | 94 |
| 13) Ethanol | 1.719 | 45 | 13916 | 13.373 | ppbv | | 84 |
| 15) Acetone | 1.835 | 43 | 79179 | 3.556 | ppbv | | 93 |
| 19) Isopropyl Alcohol | 1.884 | 45 | 22614 | 1.800 | ppbv | # | 35 |
| 20) Methylene Chloride | 2.059 | 84 | 7901 | 0.953 | ppbv | | 93 |
| 26) Hexane | 2.823 | 57 | 34660 | 1.553 | ppbv | # | 37 |
| 34) 2-Butanone | 2.561 | 43 | 10562 | 0.357 | ppbv | | 99 |
| 35) Carbon Tetrachloride | 3.761 | 117 | 2251m | 0.071 | ppbv | | |
| 36) Benzene | 3.651 | 78 | 9975m | 0.247 | ppbv | | |
| 53) Toluene | 6.930 | 91 | 15442m | 0.322 | ppbv | | |
| 59) m/p-Xylene | 9.529 | 91 | 6464m | 0.132 | ppbv | | |

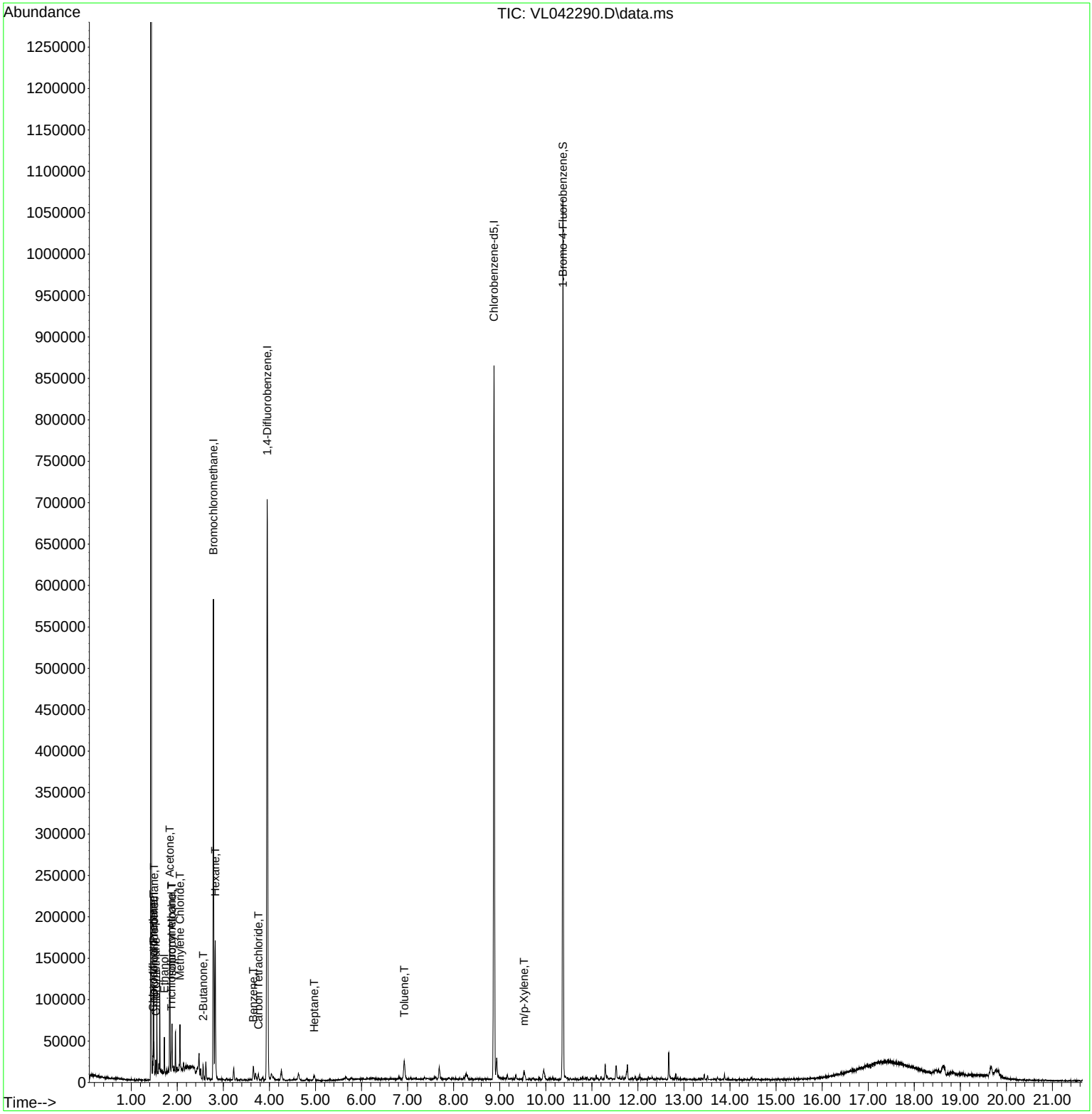
(#) = qualifier out of range (m) = manual integration (+) = signals summed

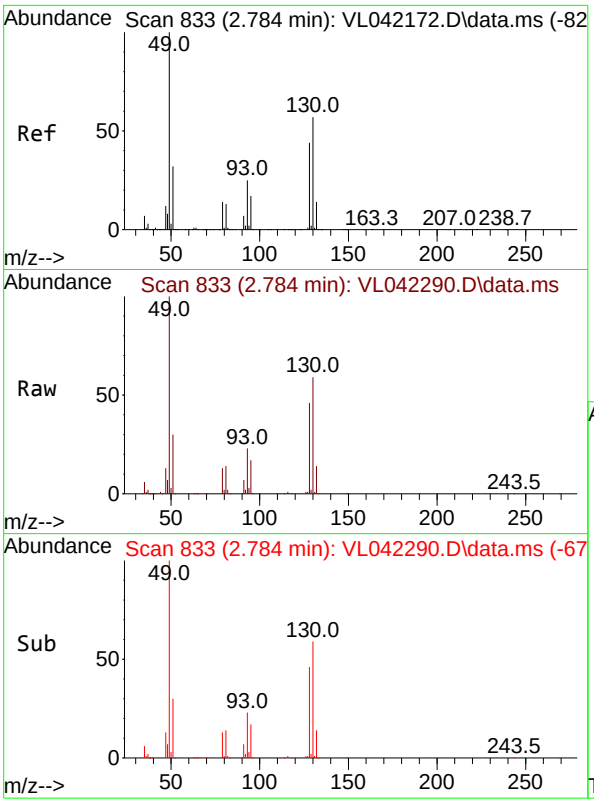
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042290.D
Acq On : 09 Apr 2025 13:25
Operator : SY/MD
Sample : Q1665-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 01:43:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

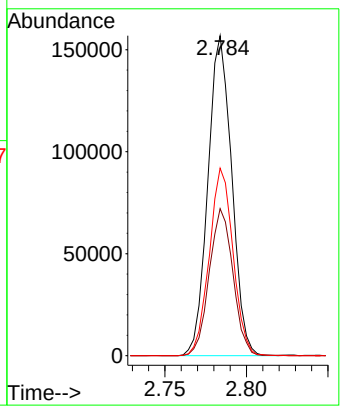





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

Tgt Ion: 49 Resp: 15922

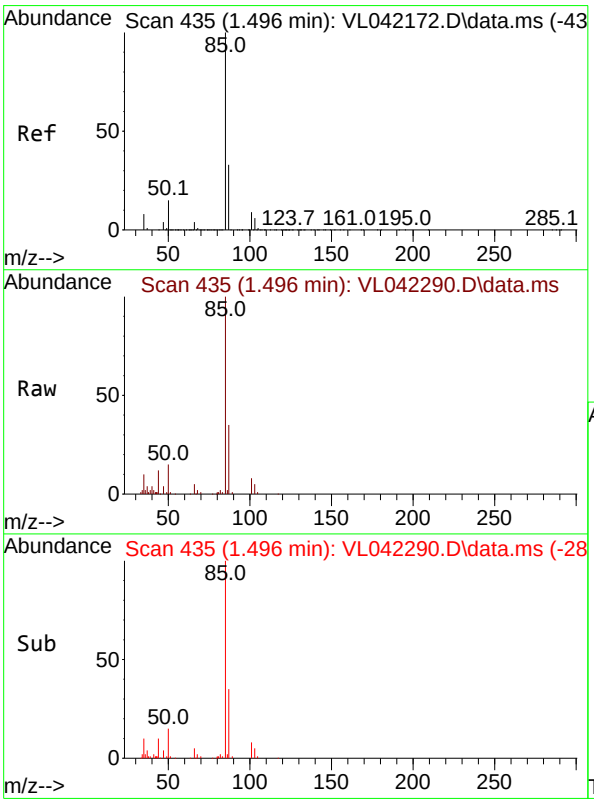
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 45.7 | 22.9 | 68.5 |
| 130 | 58.4 | 28.8 | 86.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025

**Manual Integrations**
**APPROVED**

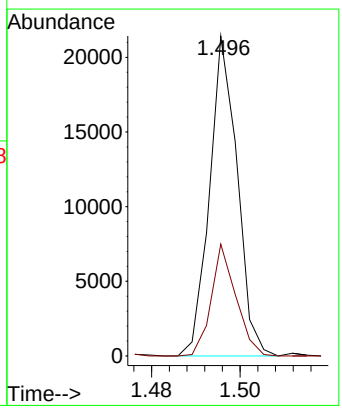
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

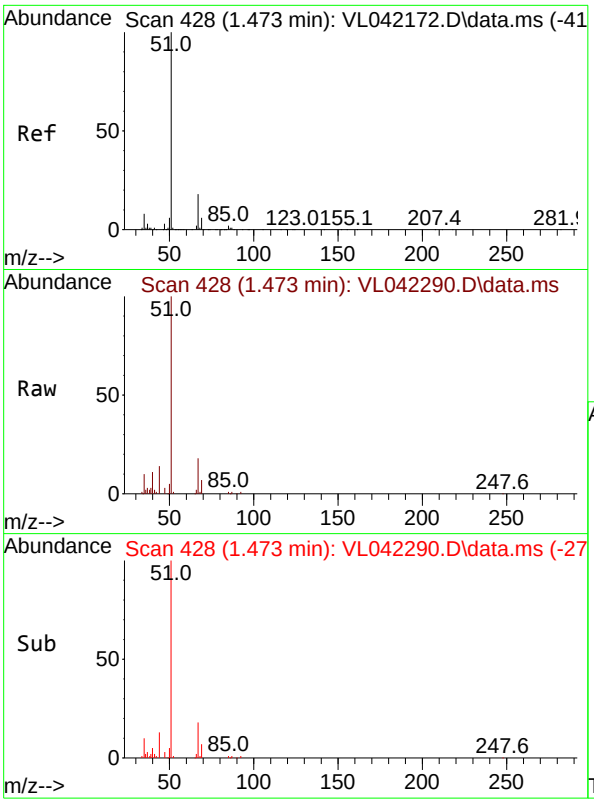



#2
Dichlorodifluoromethane
Concen: 0.395 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

Tgt Ion: 85 Resp: 9289

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 34.9 | 26.1 | 39.1 |

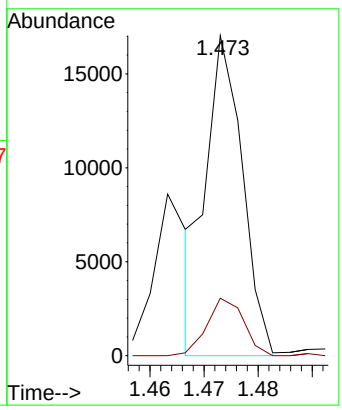





#3
Chlorodifluoromethane
Concen: 0.329 ppbv m
RT: 1.473 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

Tgt Ion: 51 Resp: 790

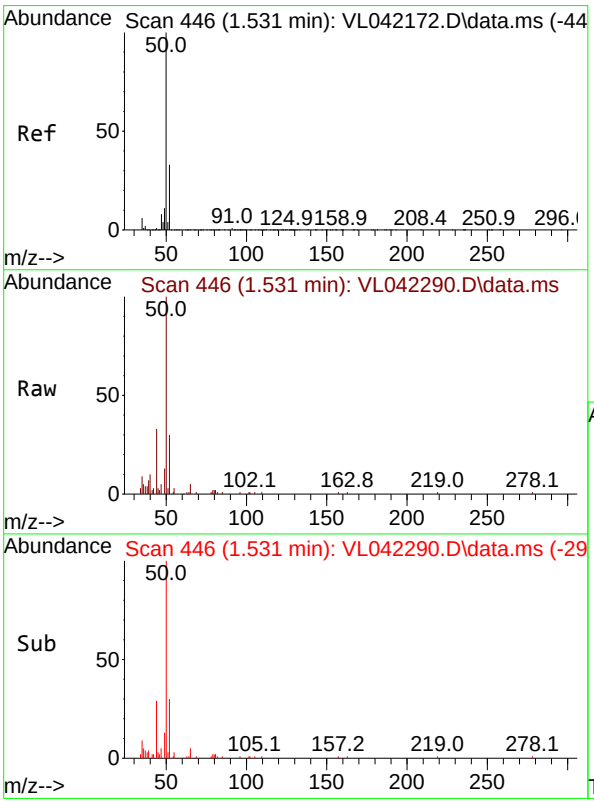
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 18.8 | 15.0 | 22.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025

**Manual Integrations**
**APPROVED**

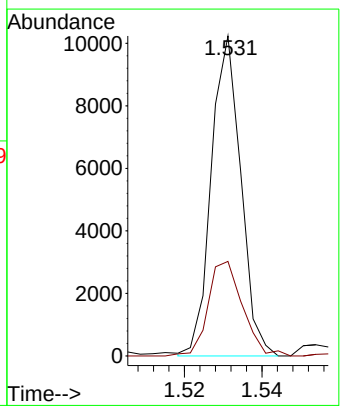
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

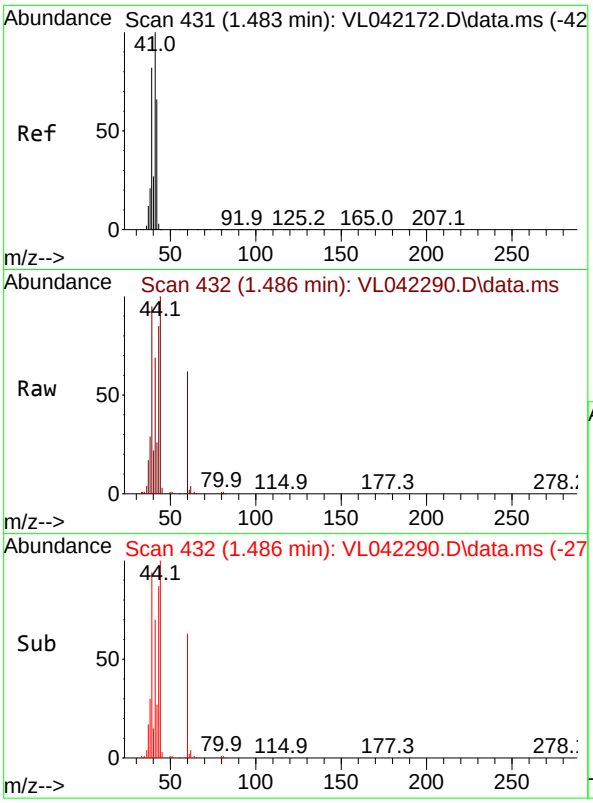



#4
Chloromethane
Concen: 0.565 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

Tgt Ion: 50 Resp: 5425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 28.9 | 26.1 | 39.1 |

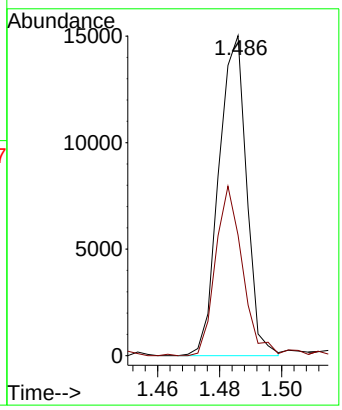





#9
Propene
Concen: 0.847 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

Tgt Ion: 41 Resp: 932

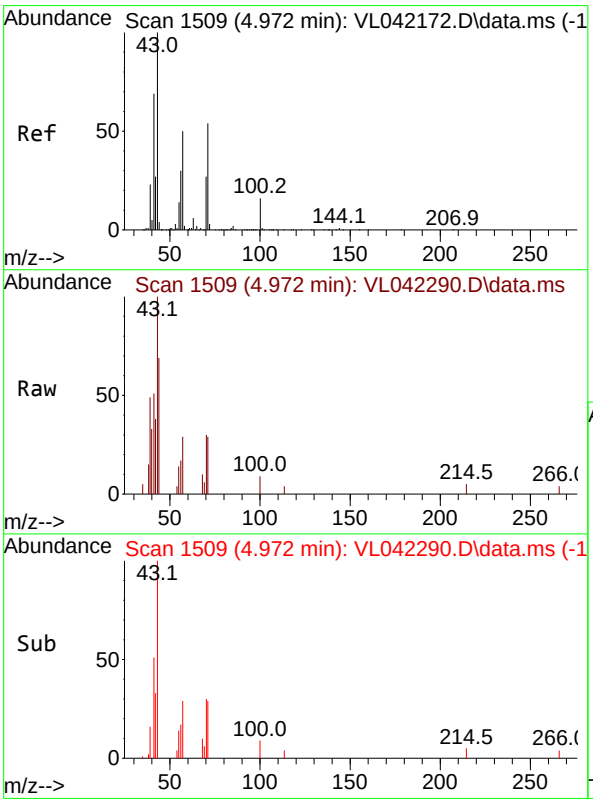
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 52.7 | 55.4 | 83.2# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025

**Manual Integrations**
**APPROVED**

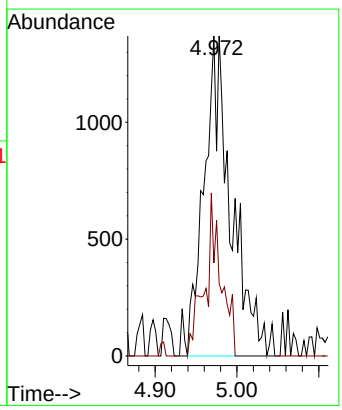
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

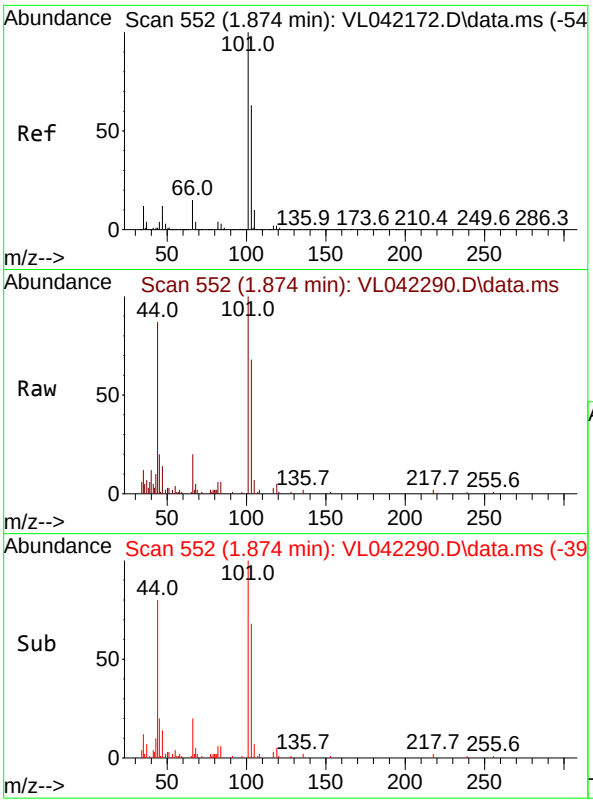



#10
Heptane
Concen: 0.110 ppbv m
RT: 4.972 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

Tgt Ion: 43 Resp: 3212

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 29.6 | 39.4 | 59.2# |

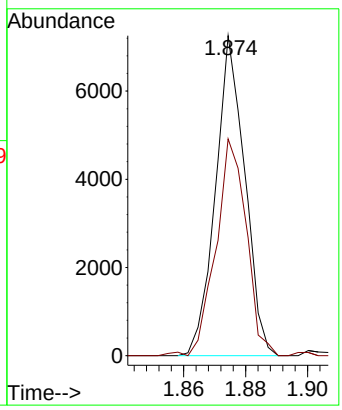





#11
Trichlorofluoromethane
Concen: 0.208 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

Tgt Ion:101 Resp: 476

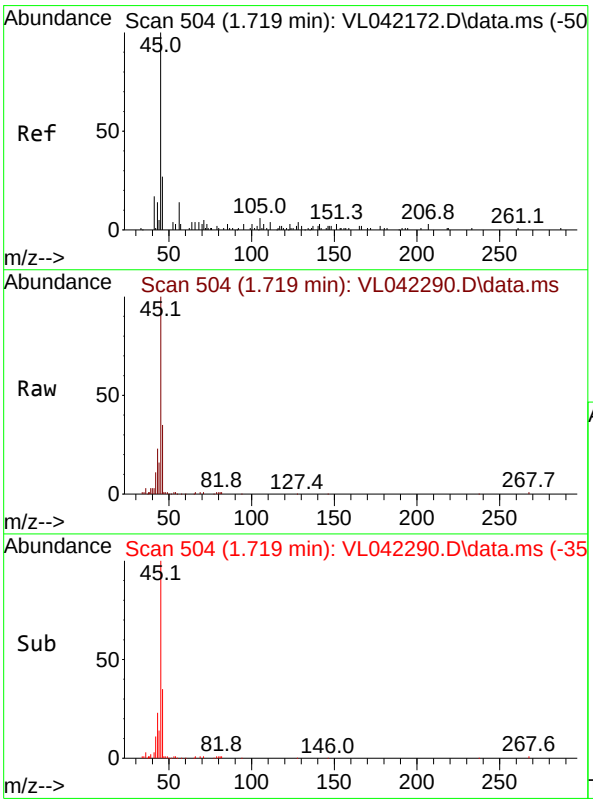
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 67.7 | 50.2 | 75.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025

**Manual Integrations**
**APPROVED**

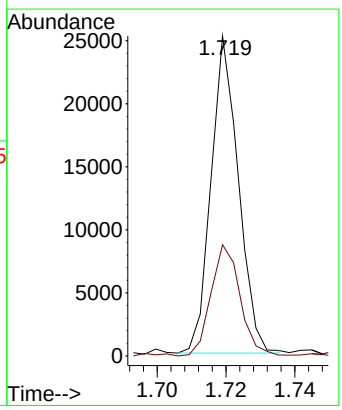
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

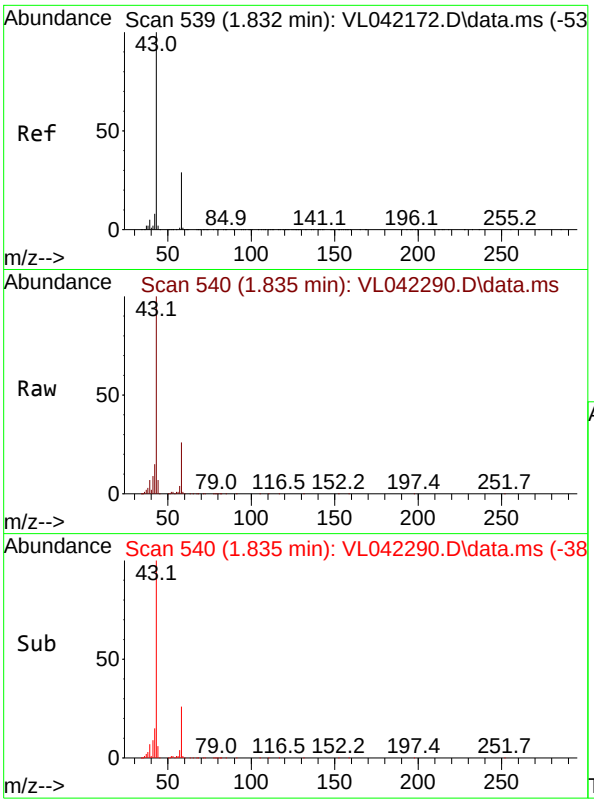



#13
Ethanol
Concen: 13.373 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

Tgt Ion: 45 Resp: 13916

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 39.5 | 20.2 | 80.8 |

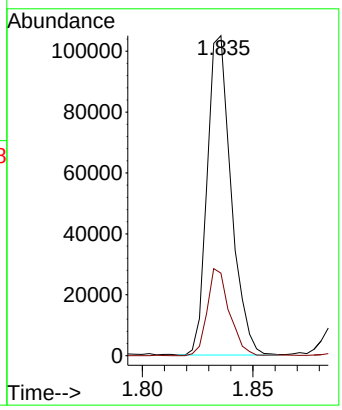





#15
Acetone
Concen: 3.556 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

Tgt Ion: 43 Resp: 7917

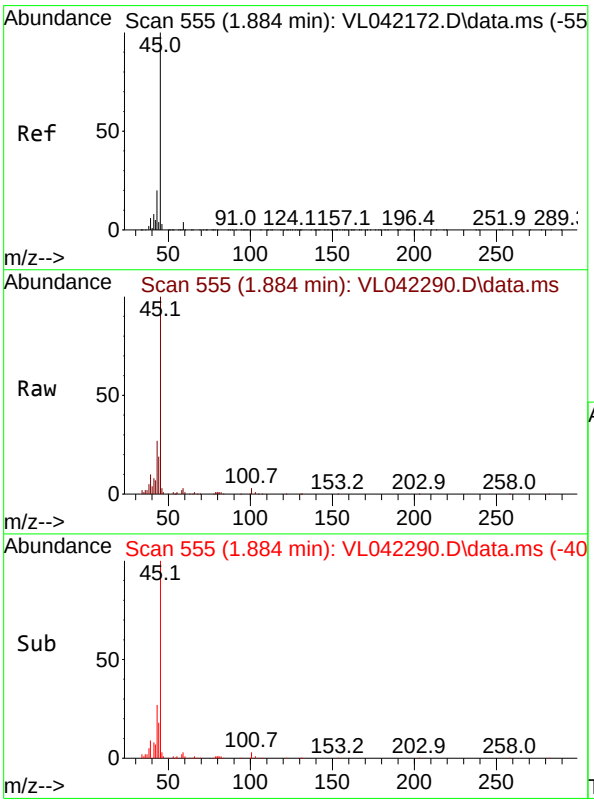
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 25.4 | 23.2 | 34.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025

**Manual Integrations**
**APPROVED**

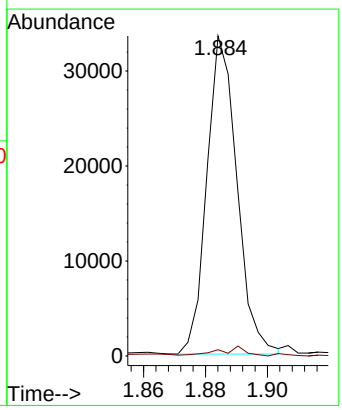
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

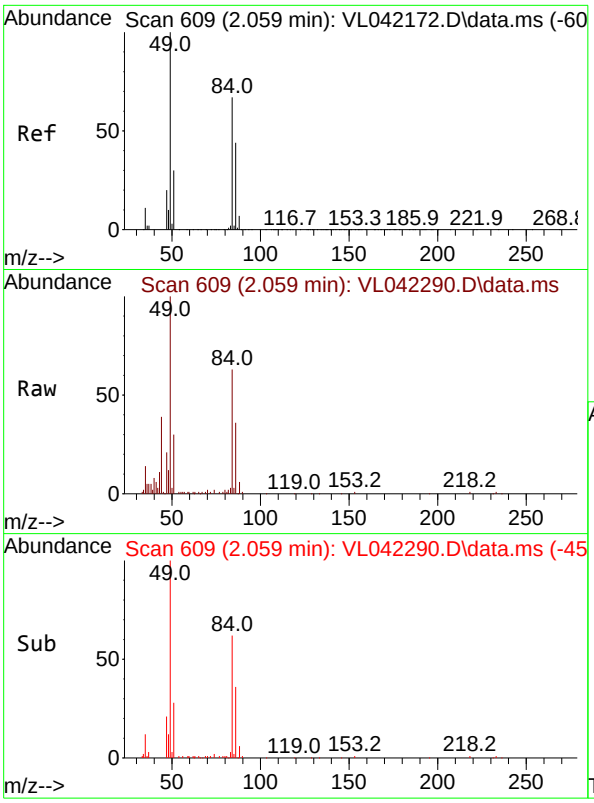



#19
Isopropyl Alcohol
Concen: 1.800 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

Tgt Ion: 45 Resp: 22614

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 89.0 | 36.9 | 55.3# |

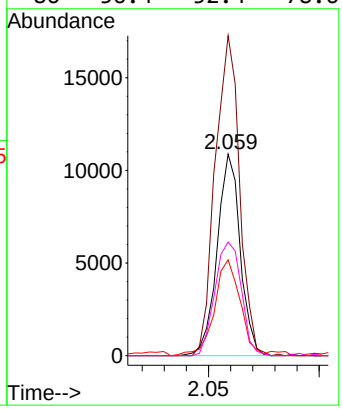





#20
Methylene Chloride
Concen: 0.953 ppbv
RT: 2.059 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

Tgt Ion: 84 Resp: 790

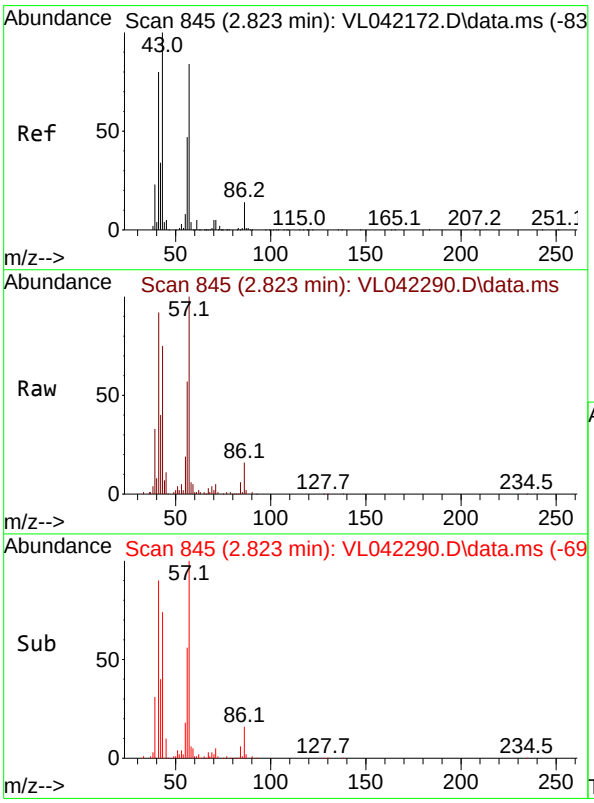
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 158.8 | 120.2 | 180.4 |
| 51 | 47.0 | 37.4 | 56.0 |
| 86 | 56.4 | 52.4 | 78.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025

**Manual Integrations**
**APPROVED**

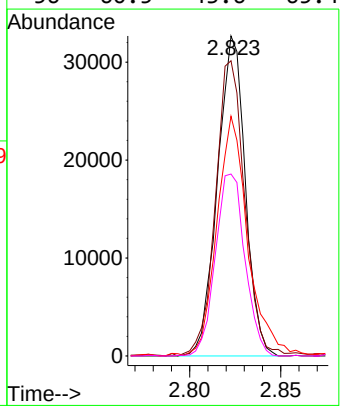
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

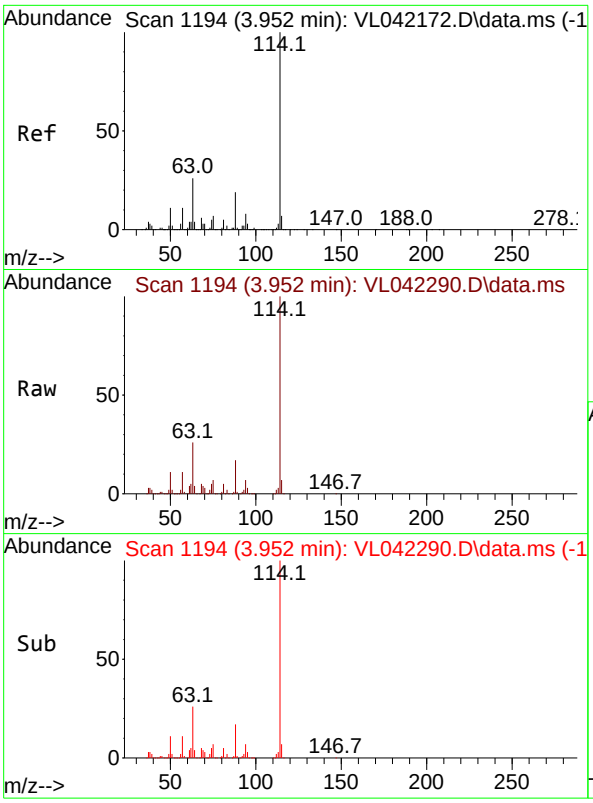



#26
Hexane
Concen: 1.553 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

Tgt Ion: 57 Resp: 34660

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 96.0 | 76.6 | 114.8 |
| 43 | 85.4 | 207.8 | 311.8# |
| 56 | 60.5 | 43.6 | 65.4 |






#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

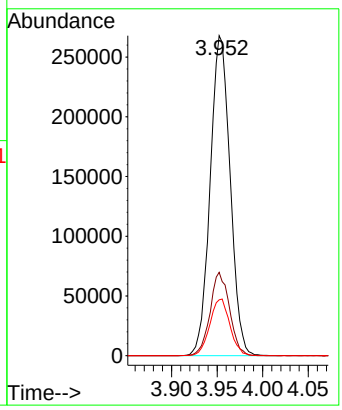
Tgt Ion:114 Resp: 40803

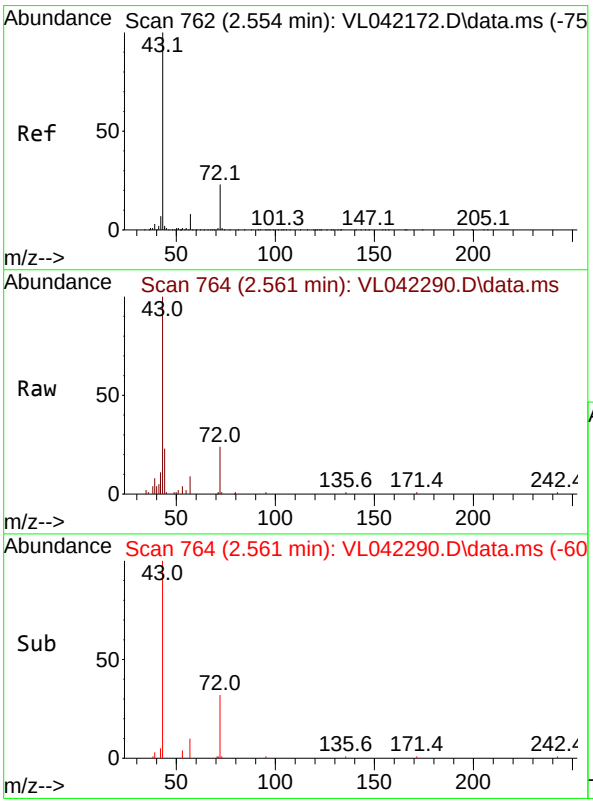
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.4 | 20.7 | 31.1 |
| 88 | 17.8 | 15.0 | 22.4 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

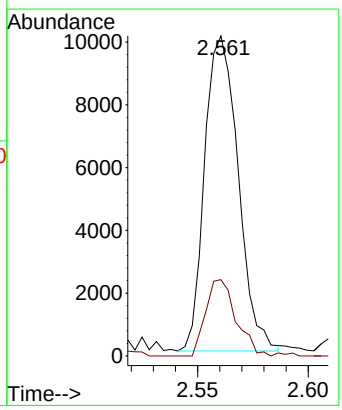


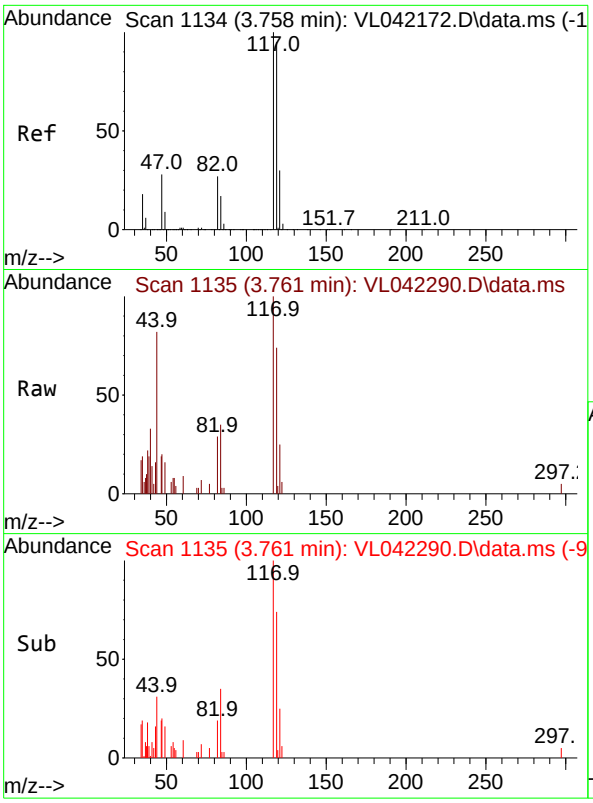




#34
2-Butanone
Concen: 0.357 ppbv
RT: 2.561 min Scan# 764
Delta R.T. 0.006 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

Tgt Ion: 43 Resp: 10562

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 22.3 | 18.2 | 27.2 |






#35
Carbon Tetrachloride
Concen: 0.071 ppbv m
RT: 3.761 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

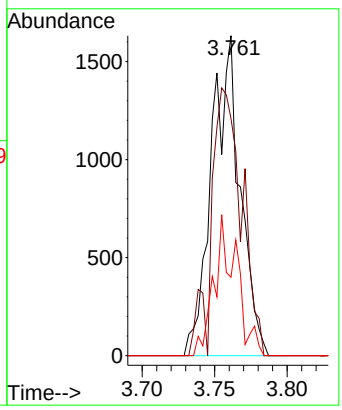
Tgt Ion:117 Resp: 225

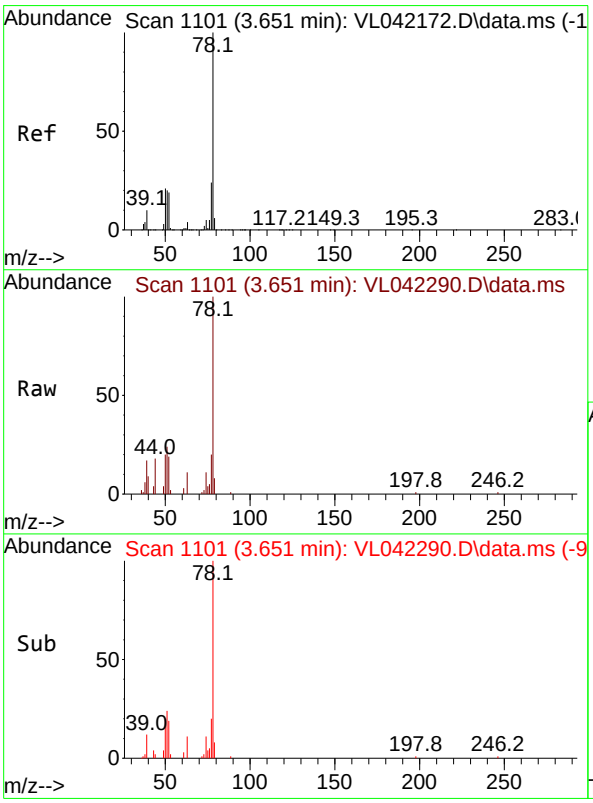
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 74.1 | 76.2 | 114.2# |
| 121 | 24.5 | 24.2 | 36.4 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

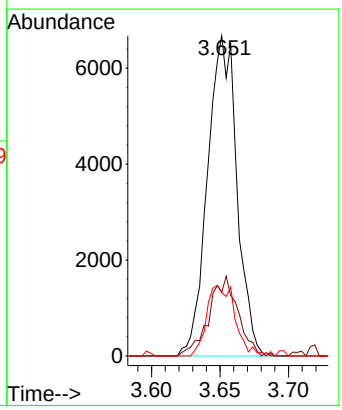


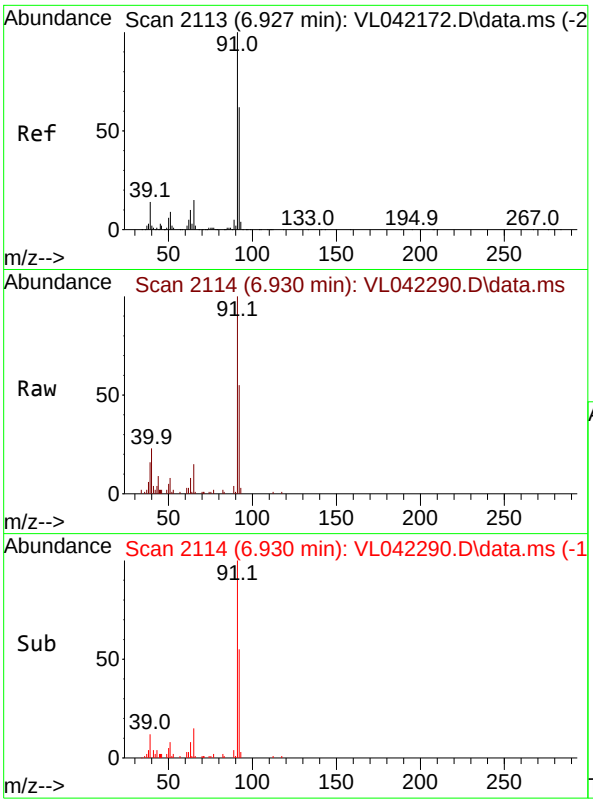




#36
Benzene
Concen: 0.247 ppbv m
RT: 3.651 min Scan# 1101
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

Tgt Ion: 78 Resp: 9975

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 19.9 | 19.1 | 28.7 |
| 50 | 19.8 | 16.6 | 24.8 |

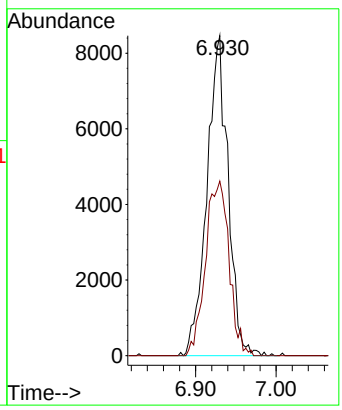





#53
Toluene
Concen: 0.322 ppbv m
RT: 6.930 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

Tgt Ion: 91 Resp: 1544

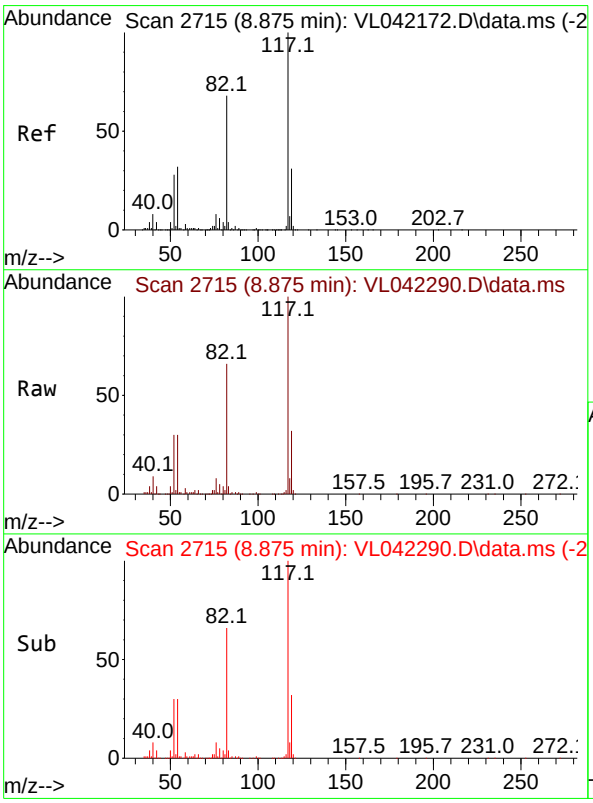
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 60.7 | 48.4 | 72.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025

**Manual Integrations**
**APPROVED**

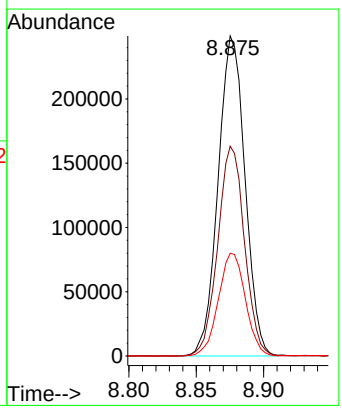
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

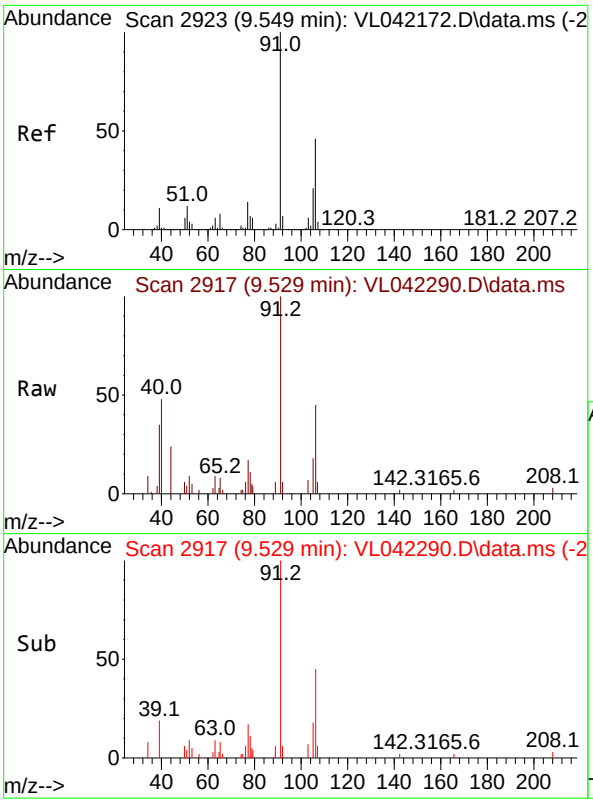



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

Tgt Ion:117 Resp: 345931

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 65.1 | 55.8 | 83.6 |
| 119 | 32.4 | 25.5 | 38.3 |






#59
m/p-Xylene
Concen: 0.132 ppbv m
RT: 9.529 min Scan# 2
Delta R.T. -0.020 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

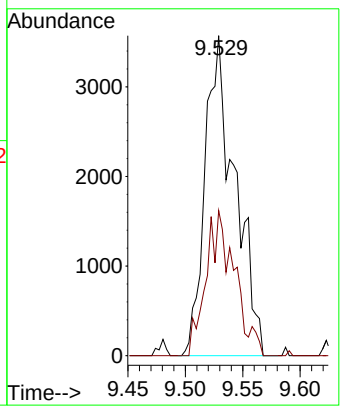
Tgt Ion: 91 Resp: 646

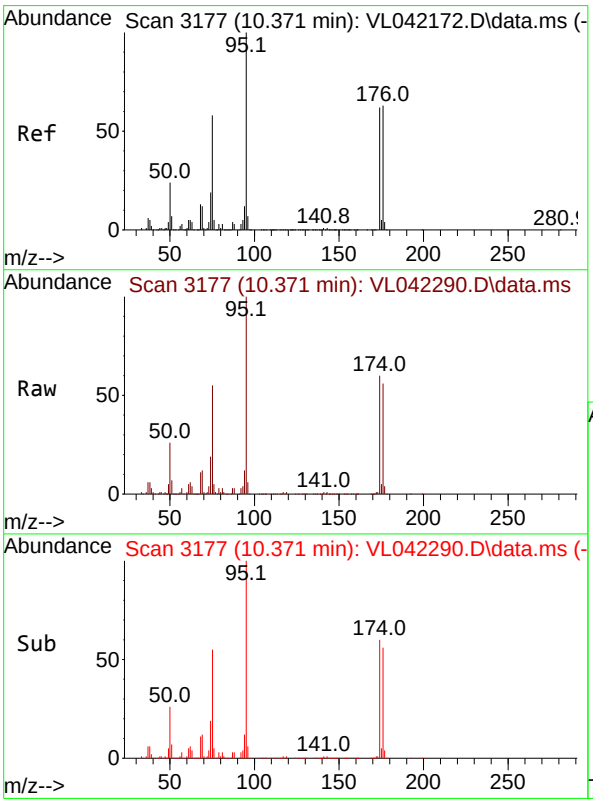
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 0.0 | 36.4 | 54.6 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

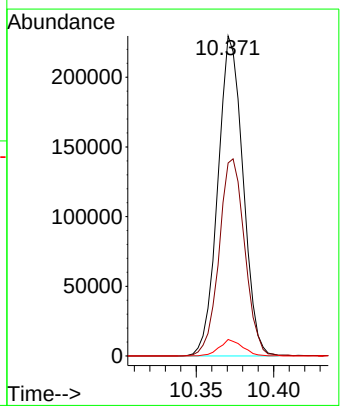



#68
1-Bromo-4-Fluorobenzene
Concen: 9.116 ppbv
RT: 10.371 min Scan# 3177
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

Tgt Ion: 95 Resp: 258960

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 63.3 | 50.6 | 76.0 |
| 175 | 4.8 | 3.8 | 5.6 |



LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042290.D
Acq On : 09 Apr 2025 13:25
Operator : SY/MD
Sample : Q1665-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

Signal : TIC: VL042290.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.428 | 409 | 414 | 420 | rBV | 4043153 | 4322373 | 100.00% | 47.520% |
| 2 | 1.486 | 427 | 432 | 434 | rBV2 | 94090 | 49930 | 1.16% | 0.549% |
| 3 | 1.557 | 449 | 454 | 458 | rBV | 97756 | 50996 | 1.18% | 0.561% |
| 4 | 1.619 | 470 | 473 | 477 | rVB | 122404 | 63382 | 1.47% | 0.697% |
| 5 | 1.835 | 533 | 540 | 549 | rBV2 | 182262 | 162453 | 3.76% | 1.786% |
| 6 | 1.884 | 549 | 555 | 560 | rBV2 | 57956 | 51799 | 1.20% | 0.569% |
| 7 | 2.059 | 605 | 609 | 617 | rVB | 54805 | 45166 | 1.04% | 0.497% |
| 8 | 2.784 | 825 | 833 | 839 | rBV | 579526 | 591430 | 13.68% | 6.502% |
| 9 | 2.823 | 839 | 845 | 855 | rVB2 | 165579 | 187537 | 4.34% | 2.062% |
| 10 | 3.952 | 1182 | 1194 | 1209 | rBV | 700409 | 1073780 | 24.84% | 11.805% |
| 11 | 6.927 | 2100 | 2113 | 2123 | rBV3 | 21740 | 43524 | 1.01% | 0.479% |
| 12 | 8.875 | 2703 | 2715 | 2726 | rBV | 862041 | 1216021 | 28.13% | 13.369% |
| 13 | 10.371 | 3163 | 3177 | 3187 | rBV | 1063377 | 1237447 | 28.63% | 13.605% |

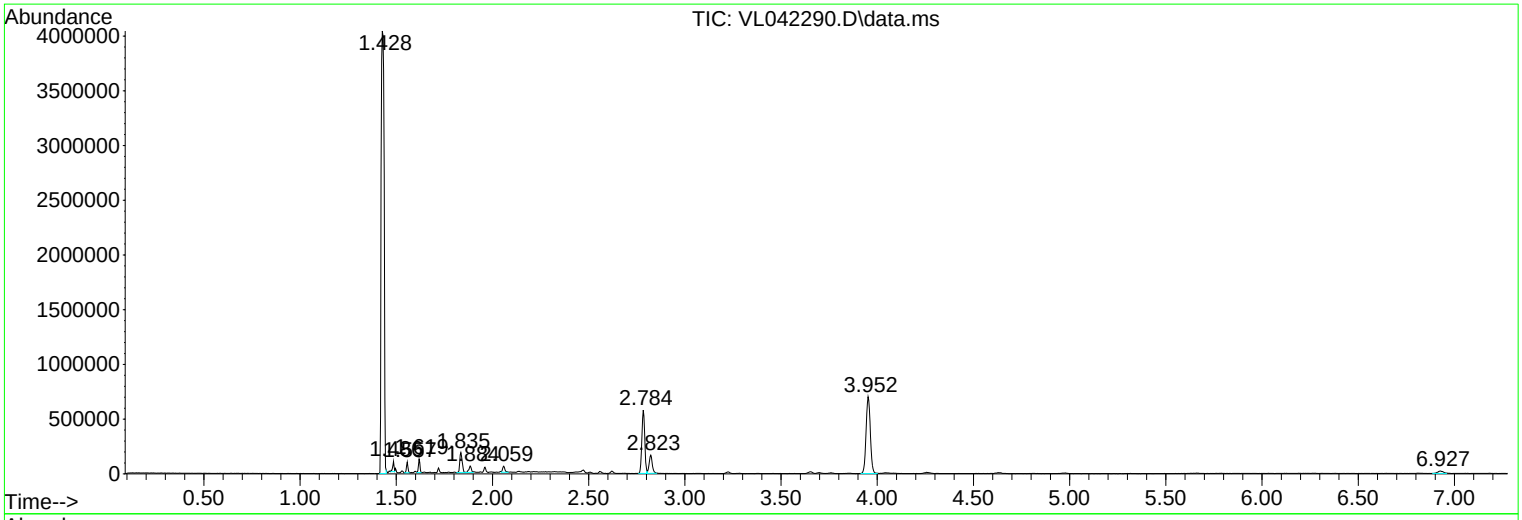
Sum of corrected areas: 9095838

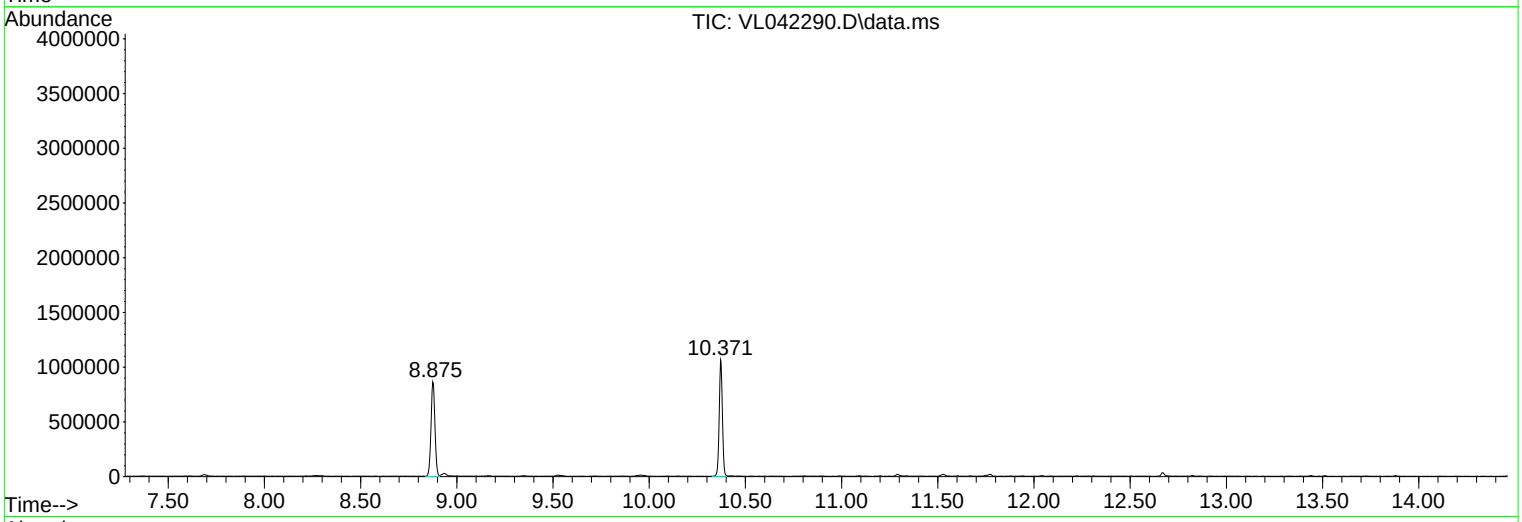
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042290.D
Acq On : 09 Apr 2025 13:25
Operator : SY/MD
Sample : Q1665-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

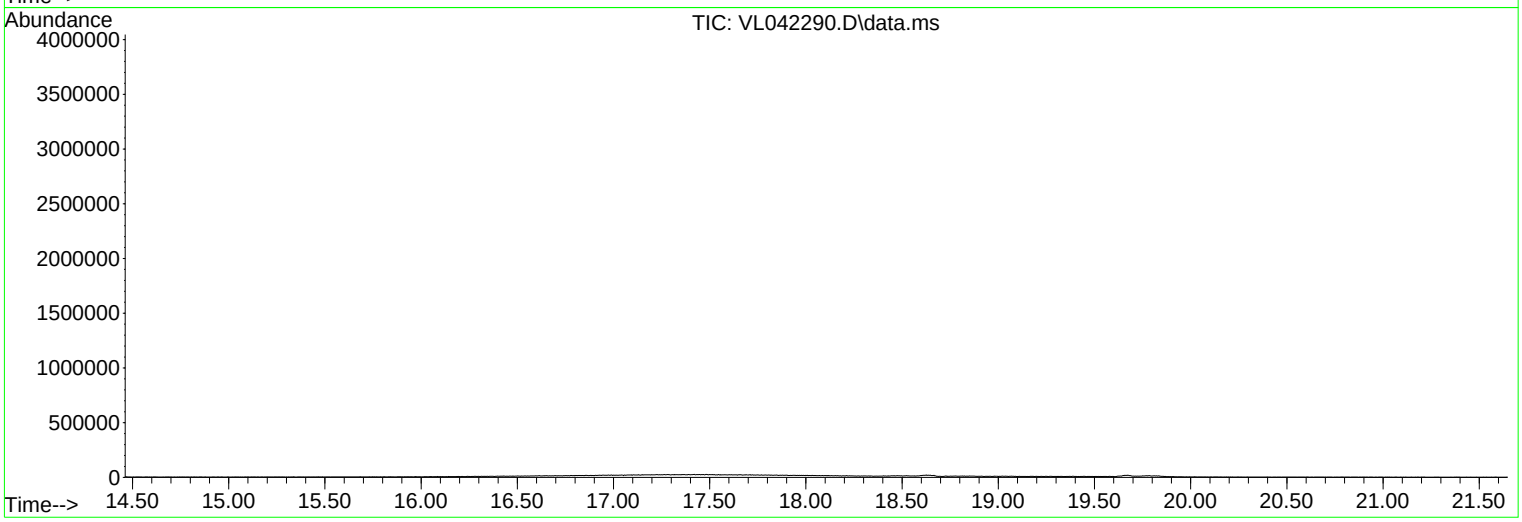
**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042290.D
Acq On : 09 Apr 2025 13:25
Operator : SY/MD
Sample : Q1665-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

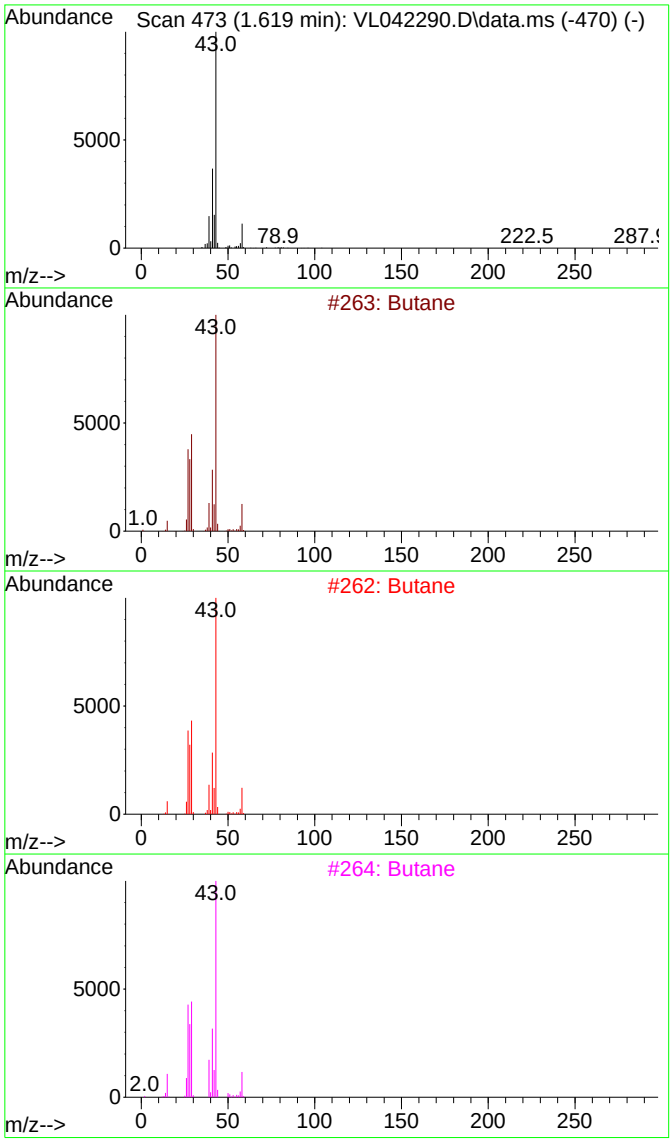
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

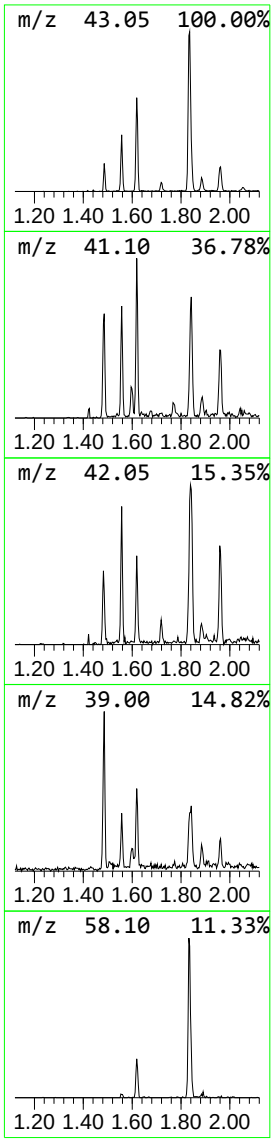
**********

Peak Number 1 Butane Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.619 | 1.07 ppbv | 63382 | Bromochloromethane | 2.784 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane | 58 | C4H10 | 000106-97-8 | 59 |
| 2 | Butane | 58 | C4H10 | 000106-97-8 | 59 |
| 3 | Butane | 58 | C4H10 | 000106-97-8 | 45 |
| 4 | Isopropylsulfonyl chloride | 142 | C3H7ClO2S | 010147-37-2 | 23 |
| 5 | Butane | 58 | C4H10 | 000106-97-8 | 9 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042290.D
Acq On : 09 Apr 2025 13:25
Operator : SY/MD
Sample : Q1665-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Butane | 1.619 | 1.1 | ppbv | 63382 | 1 | 2.784 | 591430 | 10.0 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B10-2-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-03 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042317.D | 1 | | 04/11/25 13:15 | VL041125 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.40 | 1.98 | J | 1.04 | 2.47 | ug/m3 |
| 64-17-5 | Ethanol | 1300 | 2450 | EQ | 0.60 | 0.94 | ug/m3 |
| 74-87-3 | Chloromethane | 0.59 | 1.22 | | 0.21 | 1.03 | ug/m3 |
| 75-01-4 | Vinyl Chloride | 0.010 | 0.030 | U | 0.030 | 0.080 | ug/m3 |
| 74-83-9 | Bromomethane | 0.14 | 0.54 | U | 0.54 | 1.94 | ug/m3 |
| 75-00-3 | Chloroethane | 0.17 | 0.45 | U | 0.45 | 1.32 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | 0.13 | 0.38 | U | 0.38 | 1.47 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | 0.21 | 1.18 | J | 0.90 | 2.81 | ug/m3 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.16 | 1.23 | U | 1.23 | 3.83 | ug/m3 |
| 76-14-2 | Dichlorotetrafluoroethane | 0.090 | 0.63 | U | 0.63 | 3.49 | ug/m3 |
| 593-60-2 | Bromoethene | 0.12 | 0.52 | U | 0.52 | 2.19 | ug/m3 |
| 75-65-0 | tert-Butyl alcohol | 0.47 | 1.42 | J | 0.58 | 1.52 | ug/m3 |
| 142-82-5 | Heptane | 0.17 | 0.70 | J | 0.45 | 2.05 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | 81.1 | 199 | E | 0.17 | 1.23 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethene | 0.14 | 0.56 | U | 0.56 | 1.98 | ug/m3 |
| 67-64-1 | Acetone | 82.7 | 196 | E | 0.57 | 1.19 | ug/m3 |
| 75-15-0 | Carbon Disulfide | 0.16 | 0.50 | U | 0.50 | 1.56 | ug/m3 |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.12 | 0.43 | U | 0.43 | 1.80 | ug/m3 |
| 75-09-2 | Methylene Chloride | 1.60 | 5.56 | | 0.66 | 1.74 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.19 | 0.75 | U | 0.75 | 1.98 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | 0.13 | 0.53 | U | 0.53 | 2.02 | ug/m3 |
| 110-82-7 | Cyclohexane | 0.22 | 0.76 | U | 0.76 | 1.72 | ug/m3 |
| 78-93-3 | 2-Butanone | 26.8 | 79.0 | E | 0.35 | 1.47 | ug/m3 |
| 56-23-5 | Carbon Tetrachloride | 0.090 | 0.57 | | 0.060 | 0.19 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.090 | 0.36 | U | 0.36 | 1.98 | ug/m3 |
| 67-66-3 | Chloroform | 1.40 | 6.84 | | 0.39 | 2.44 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.010 | 0.050 | U | 0.050 | 0.16 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | 0.10 | 0.47 | U | 0.47 | 2.34 | ug/m3 |
| 71-43-2 | Benzene | 0.60 | 1.92 | | 0.29 | 1.60 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | 0.090 | 0.36 | U | 0.36 | 2.02 | ug/m3 |
| 79-01-6 | Trichloroethene | 0.020 | 0.11 | U | 0.11 | 0.16 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | 0.11 | 0.51 | U | 0.51 | 2.31 | ug/m3 |
| 75-27-4 | Bromodichloromethane | 0.080 | 0.54 | U | 0.54 | 3.35 | ug/m3 |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.090 | 0.37 | U | 0.37 | 2.05 | ug/m3 |
| 108-88-3 | Toluene | 0.49 | 1.85 | J | 0.41 | 1.88 | ug/m3 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B10-2-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-03 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042317.D | 1 | | 04/11/25 13:15 | VL041125 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.060 | 0.27 | U | 0.27 | 2.27 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.060 | 0.27 | U | 0.27 | 2.27 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.070 | 0.38 | U | 0.38 | 2.73 | ug/m3 |
| 124-48-1 | Dibromochloromethane | 0.070 | 0.60 | U | 0.60 | 4.26 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane | 0.070 | 0.54 | U | 0.54 | 0.77 | ug/m3 |
| 127-18-4 | Tetrachloroethene | 0.040 | 0.27 | | 0.14 | 0.20 | ug/m3 |
| 108-90-7 | Chlorobenzene | 0.080 | 0.37 | U | 0.37 | 2.30 | ug/m3 |
| 100-41-4 | Ethyl Benzene | 0.12 | 0.52 | U | 0.52 | 2.17 | ug/m3 |
| 179601-23-1 | m/p-Xylene | 0.21 | 0.91 | U | 0.91 | 4.34 | ug/m3 |
| 95-47-6 | o-Xylene | 0.12 | 0.52 | J | 0.52 | 2.17 | ug/m3 |
| 100-42-5 | Styrene | 0.11 | 0.47 | U | 0.47 | 2.13 | ug/m3 |
| 75-25-2 | Bromoform | 0.060 | 0.62 | U | 0.62 | 5.17 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.010 | 0.070 | UQ | 0.070 | 0.21 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | 0.11 | 0.57 | U | 0.57 | 2.59 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.11 | 0.54 | U | 0.54 | 2.46 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.12 | 0.59 | J | 0.39 | 2.46 | ug/m3 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.080 | 0.48 | U | 0.48 | 3.01 | ug/m3 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.050 | 0.30 | U | 0.30 | 3.01 | ug/m3 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.080 | 0.48 | UQ | 0.48 | 3.01 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.090 | 0.67 | U | 0.67 | 3.71 | ug/m3 |
| 87-68-3 | Hexachloro-1,3-Butadiene | 0.090 | 0.96 | U | 0.96 | 5.33 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | 0.13 | 0.29 | U | 0.29 | 1.11 | ug/m3 |
| 91-20-3 | Naphthalene | 0.080 | 0.42 | U | 0.42 | 0.52 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | 0.12 | 0.59 | U | 0.59 | 2.46 | ug/m3 |
| 110-54-3 | Hexane | 2.50 | 8.81 | | 0.39 | 1.76 | ug/m3 |
| 107-05-1 | Allyl Chloride | 0.15 | 0.47 | U | 0.47 | 1.57 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | 0.21 | 0.76 | U | 0.76 | 1.80 | ug/m3 |
| 80-62-6 | Methyl Methacrylate | 0.090 | 0.37 | U | 0.37 | 2.05 | ug/m3 |
| **SURROGATES** | | | | | | | |
| 460-00-4 | 1-Bromo-4-Fluorobenzene | 9.80 | | | 70 (65) - 130 (135) | 98% | SPK: 10 |
| **INTERNAL STANDARDS** | | | | | | | |
| 74-97-5 | Bromochloromethane | 179000 | | 2.79 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 423000 | | 3.965 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 361000 | | 8.888 | | | |
| **TENTITIVE IDENTIFIED COMPOUNDS** | | | | | | | |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B10-2-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-03 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042317.D | 1 | | 04/11/25 13:15 | VL041125 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 115-07-1 | Propene | 4.30 | | J | | 1.49 | ppbv |
| 000106-97-8 | Butane | 1.30 | | J | | 1.62 | ppbv |
| 007452-79-1 | Butanoic acid, 2-methyl-, ethyl es | 1.50 | | J | | 9.16 | ppbv |
| 005989-27-5 | D-Limonene | 21.3 | | J | | 12.0 | ppbv |
| 001762-27-2 | Plumbane, diethyldimethyl- | 65.1 | | J | | 13.4 | ppbv |

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042317.D
Acq On : 11 Apr 2025 13:15
Operator : SY/MD
Sample : Q1665-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 11 22:59:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 2.790 | 49 | 179309 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.965 | 114 | 422807 | 10.000 | ppbv | | 0.01 |
| 55) Chlorobenzene-d5 | 8.888 | 117 | 360993 | 10.000 | ppbv | | 0.01 |
| System Monitoring Compounds | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.380 | 95 | 291371 | 9.829 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 98.300% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.499 | 85 | 10578 | 0.400 | ppbv | | 98 |
| 4) Chloromethane | 1.531 | 50 | 6409 | 0.592 | ppbv | | 93 |
| 9) Propene | 1.489 | 41 | 53741m | 4.335 | ppbv | | |
| 10) Heptane | 4.978 | 43 | 5613m | 0.170 | ppbv | | |
| 11) Trichlorofluoromethane | 1.881 | 101 | 5509 | 0.214 | ppbv | | 86 |
| 13) Ethanol | 1.725 | 45 | 1540169 | 1314.265 | ppbv | | 93 |
| 15) Acetone | 1.835 | 43 | 2074699 | 82.732 | ppbv | # | 78 |
| 17) tert-Butyl alcohol | 2.046 | 59 | 14565 | 0.466 | ppbv | | 97 |
| 19) Isopropyl Alcohol | 1.887 | 45 | 1147205 | 81.079 | ppbv | # | 58 |
| 20) Methylene Chloride | 2.065 | 84 | 14725 | 1.577 | ppbv | | 90 |
| 26) Hexane | 2.829 | 57 | 64050 | 2.548 | ppbv | | 93 |
| 29) Chloroform | 2.855 | 83 | 50104 | 1.362 | ppbv | | 95 |
| 34) 2-Butanone | 2.560 | 43 | 822701 | 26.834 | ppbv | | 98 |
| 35) Carbon Tetrachloride | 3.768 | 117 | 2921m | 0.088 | ppbv | | |
| 36) Benzene | 3.664 | 78 | 25066 | 0.598 | ppbv | # | 90 |
| 52) Tetrachloroethene | 8.228 | 164 | 585m | 0.035 | ppbv | | |
| 53) Toluene | 6.939 | 91 | 24232 | 0.488 | ppbv | | 99 |
| 59) m/p-Xylene | 9.535 | 91 | 9717m | 0.190 | ppbv | | |
| 60) o-Xylene | 9.969 | 91 | 5940 | 0.116 | ppbv | | 89 |
| 74) 1,2,4-Trimethylbenzene | 11.542 | 105 | 7764 | 0.121 | ppbv | # | 72 |

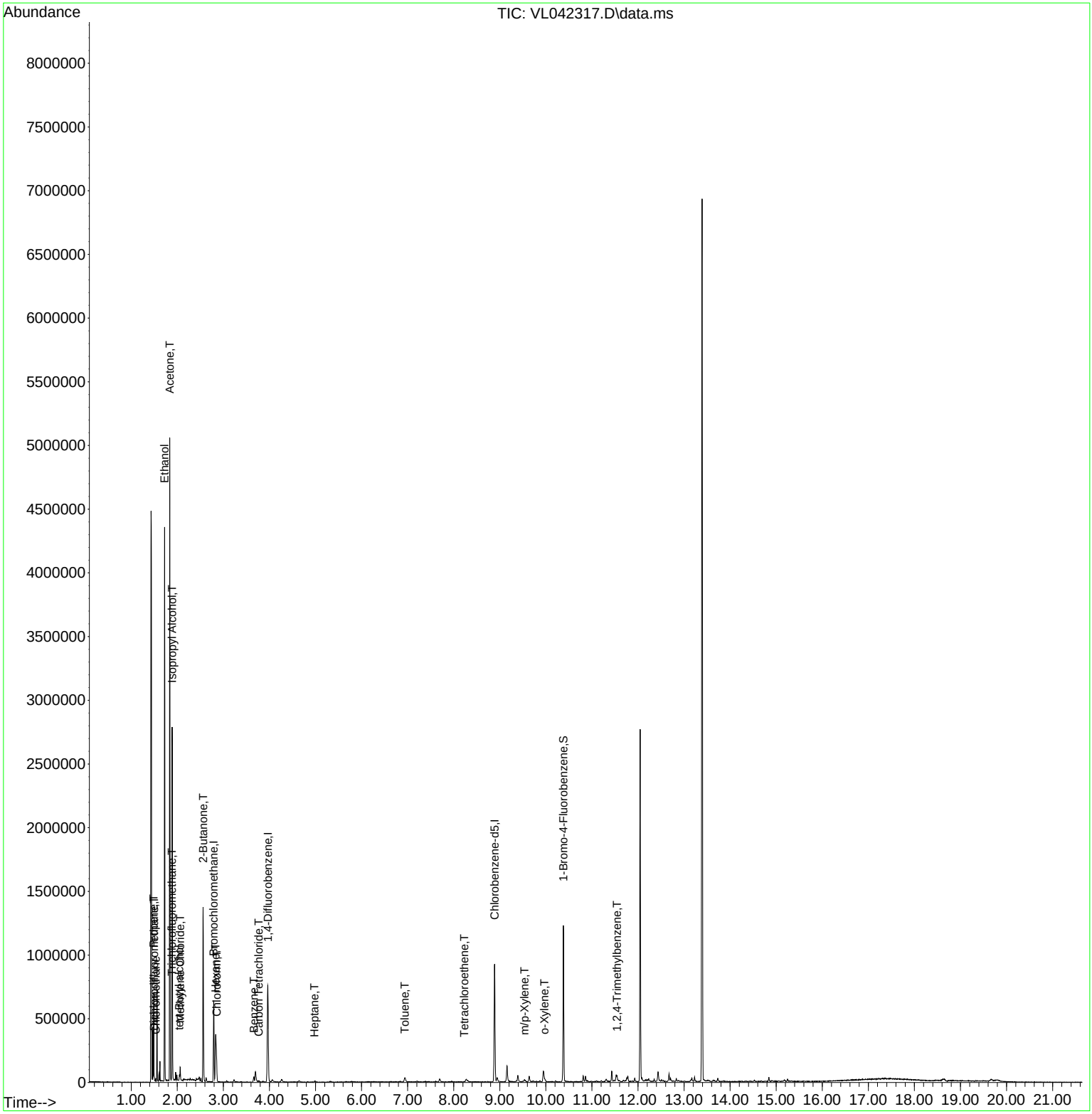
(#) = qualifier out of range (m) = manual integration (+) = signals summed

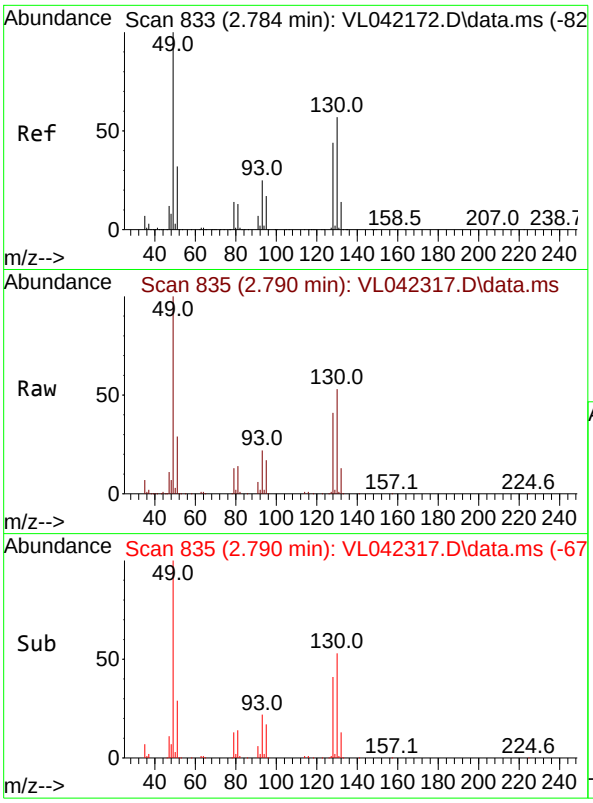
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042317.D
Acq On : 11 Apr 2025 13:15
Operator : SY/MD
Sample : Q1665-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 11 22:59:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

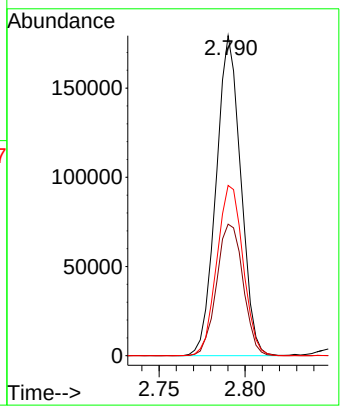





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion: 49 Resp: 17930

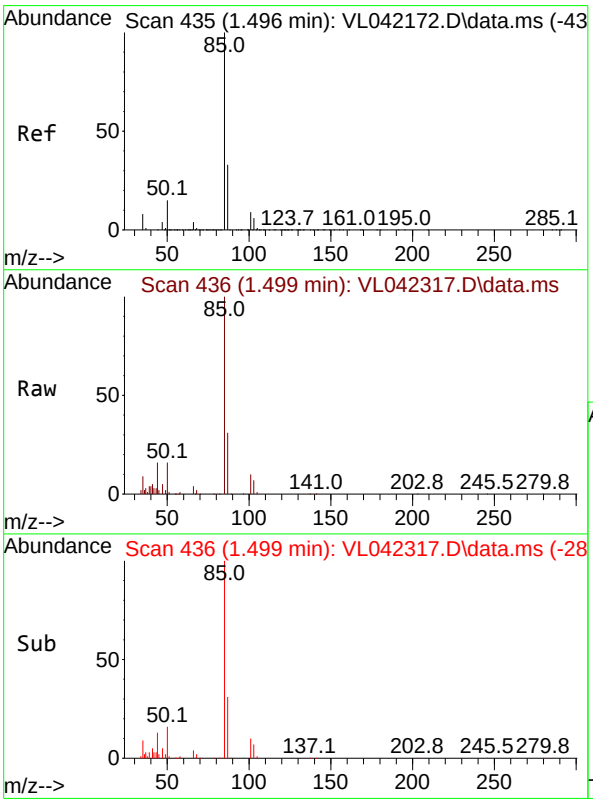
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 44.1 | 22.9 | 68.5 |
| 130 | 56.5 | 28.8 | 86.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025

**Manual Integrations**
**APPROVED**

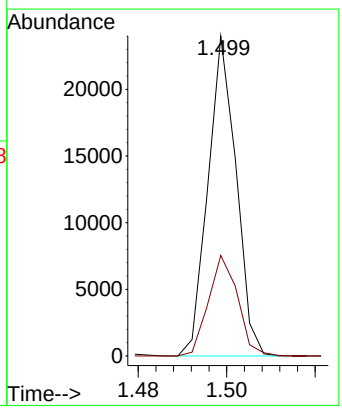
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

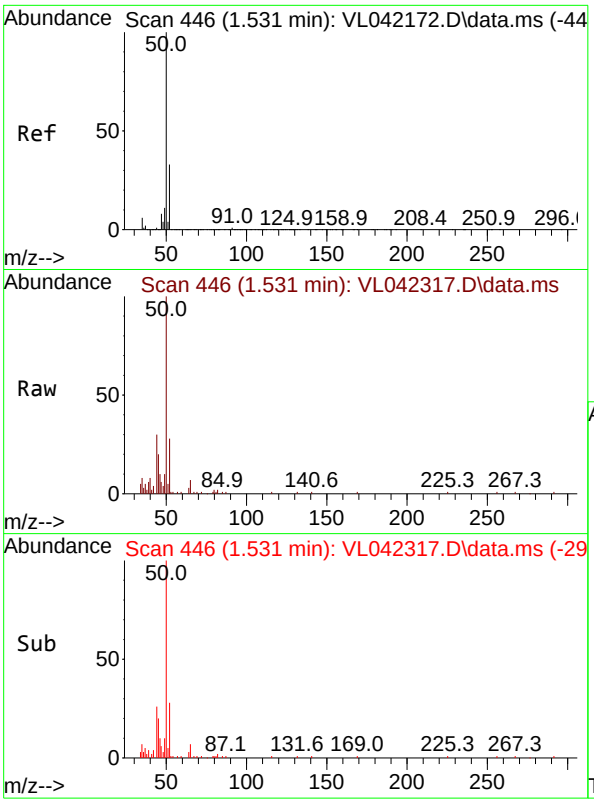



#2
Dichlorodifluoromethane
Concen: 0.400 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion: 85 Resp: 10578

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.4 | 26.1 | 39.1 |

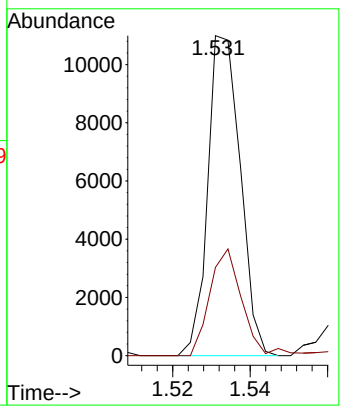





#4
Chloromethane
Concen: 0.592 ppbv
RT: 1.531 min Scan# 44
Delta R.T. -0.000 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion: 50 Resp: 640

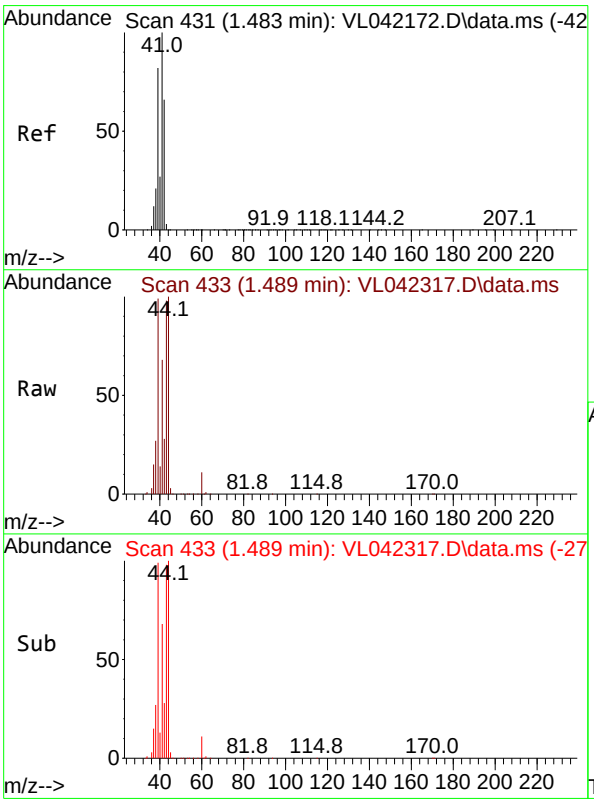
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 28.9 | 26.1 | 39.1 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025

**Manual Integrations**
**APPROVED**

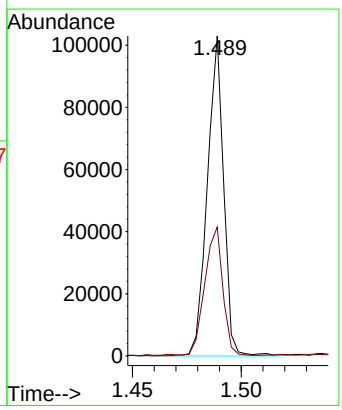
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

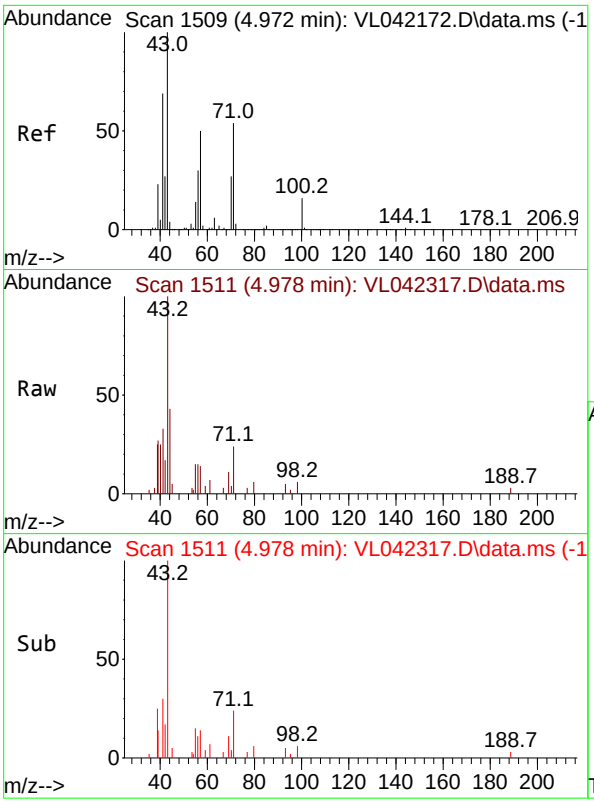



#9
Propene
Concen: 4.335 ppbv m
RT: 1.489 min Scan# 433
Delta R.T. 0.006 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion: 41 Resp: 53741

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 131.6 | 55.4 | 83.2# |






#10
Heptane
Concen: 0.170 ppbv m
RT: 4.978 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

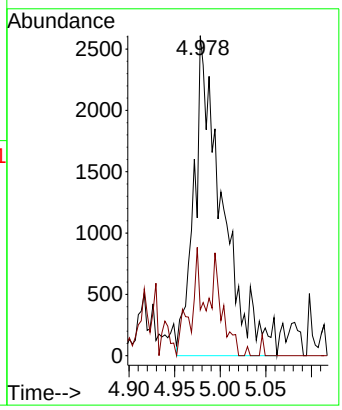
Tgt Ion: 43 Resp: 561

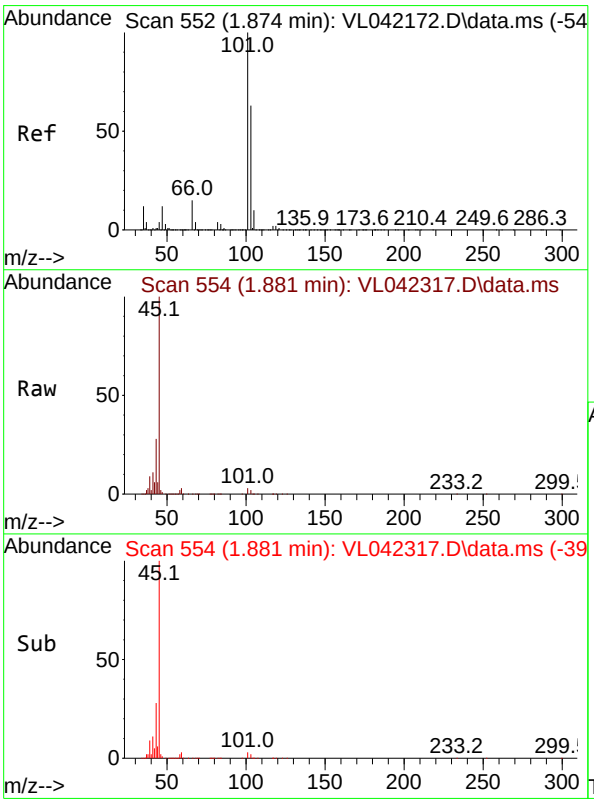
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 0.0 | 39.4 | 59.2# |

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

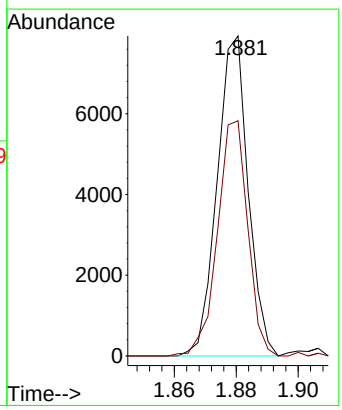


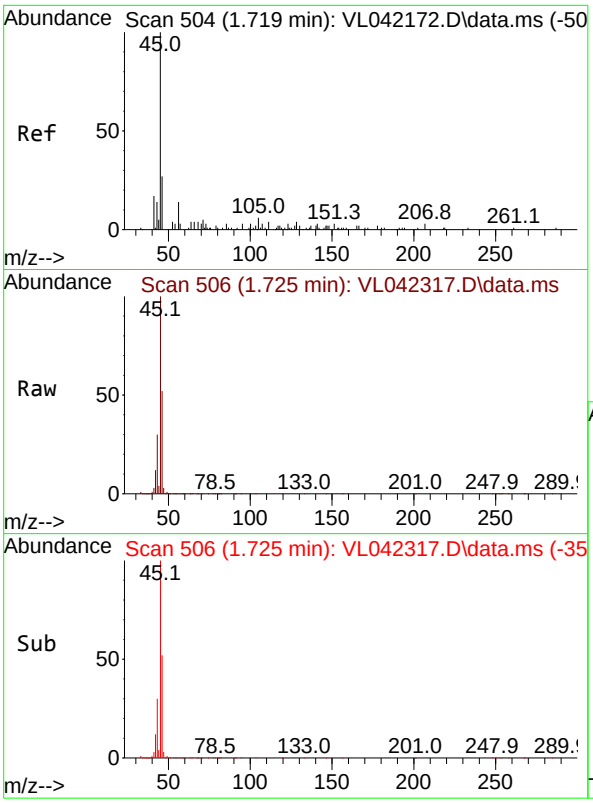




#11
Trichlorofluoromethane
Concen: 0.214 ppbv
RT: 1.881 min Scan# 554
Delta R.T. 0.006 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion:101 Resp: 5509

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 73.5 | 50.2 | 75.2 |

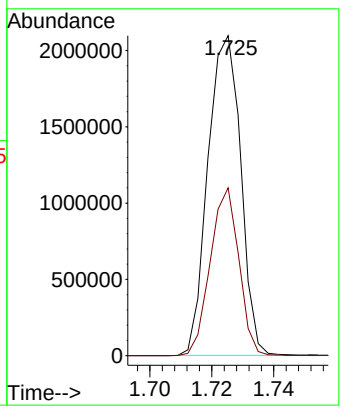





#13
Ethanol
Concen: 1314.265 ppbv
RT: 1.725 min Scan# 5
Delta R.T. 0.006 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion: 45 Resp: 154016

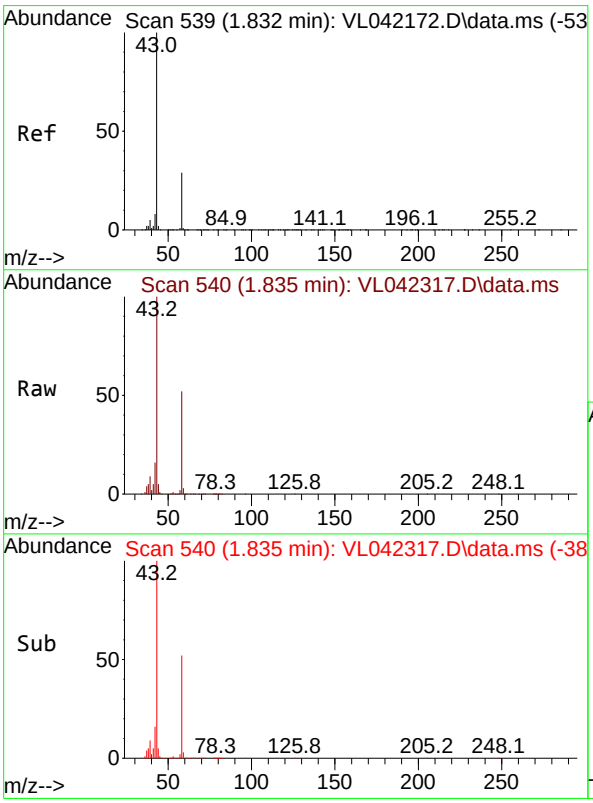
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 45.9 | 20.2 | 80.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025

**Manual Integrations**
**APPROVED**

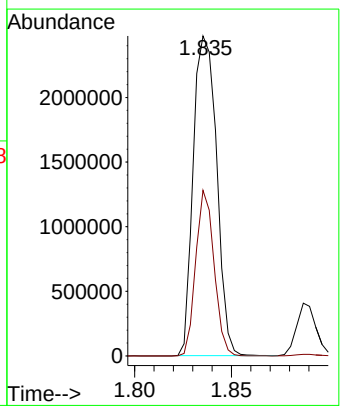
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

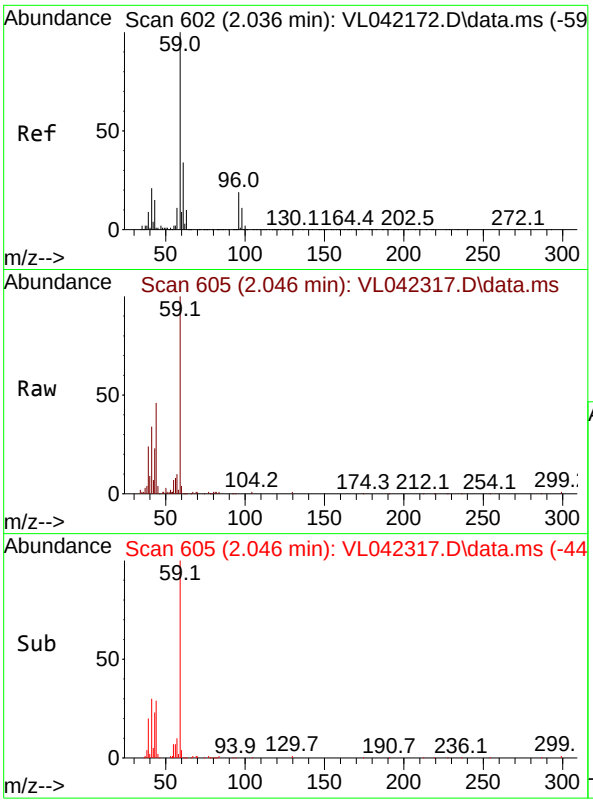



#15
Acetone
Concen: 82.732 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion: 43 Resp: 2074699

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 40.8 | 23.2 | 34.8# |

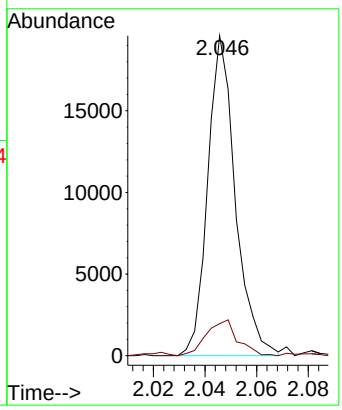





#17
tert-Butyl alcohol
Concen: 0.466 ppbv
RT: 2.046 min Scan# 6
Delta R.T. 0.009 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion: 59 Resp: 1456

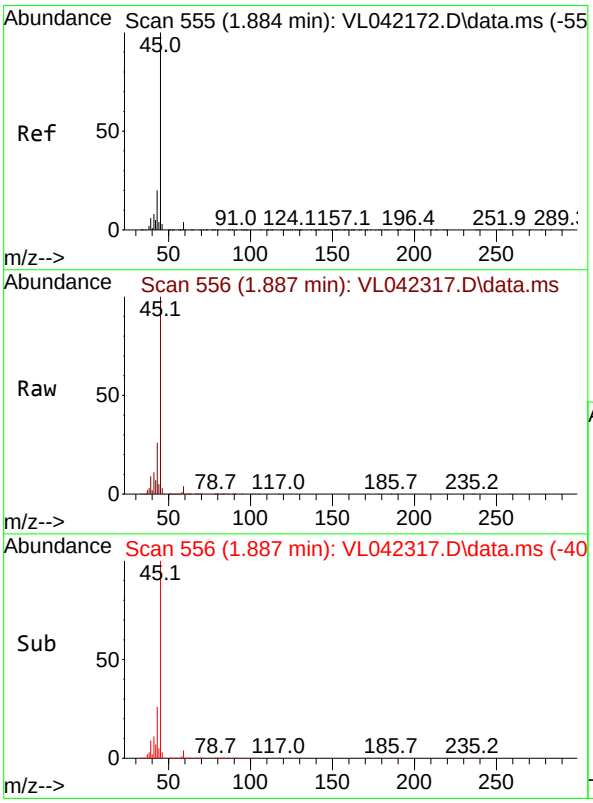
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 12.2 | 8.9 | 13.3 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025

**Manual Integrations**
**APPROVED**

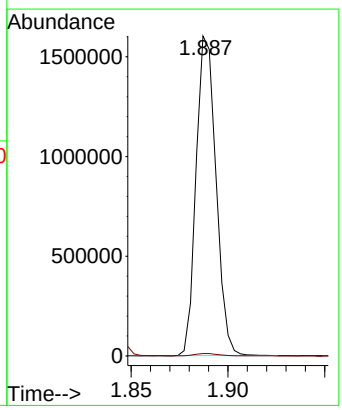
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

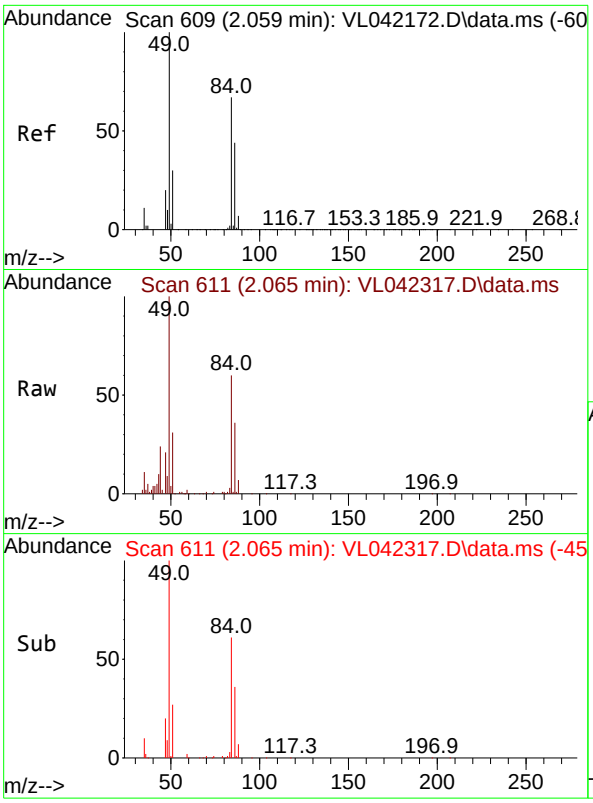



#19
Isopropyl Alcohol
Concen: 81.079 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion: 45 Resp: 1147205

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 73.9 | 36.9 | 55.3# |

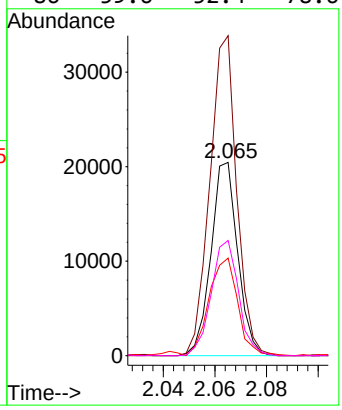





#20
Methylene Chloride
Concen: 1.577 ppbv
RT: 2.065 min Scan# 6
Delta R.T. 0.006 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion: 84 Resp: 1472

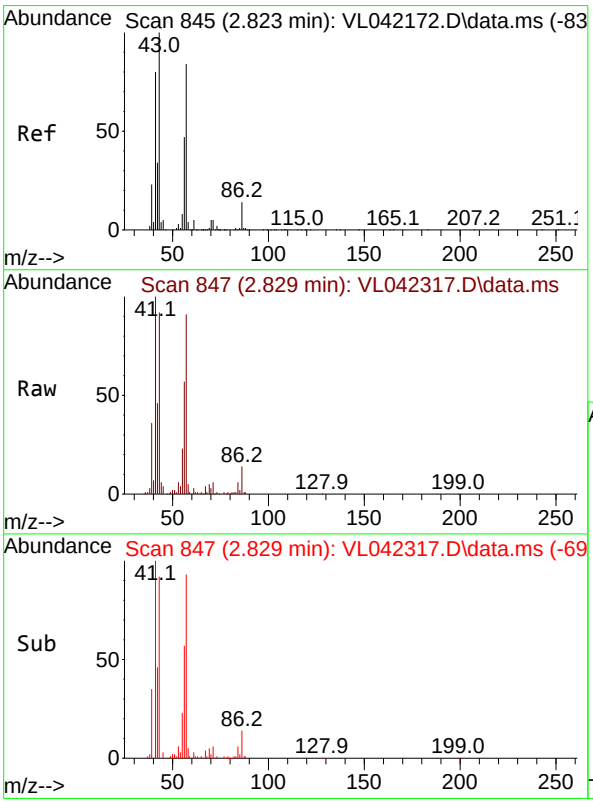
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 165.6 | 120.2 | 180.4 |
| 51 | 49.9 | 37.4 | 56.0 |
| 86 | 59.6 | 52.4 | 78.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025

**Manual Integrations**
**APPROVED**

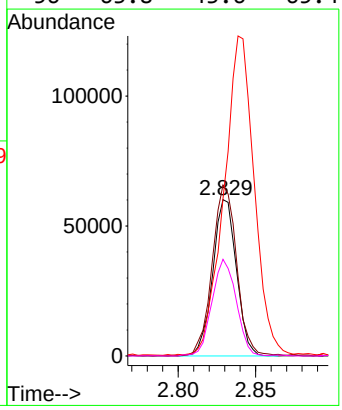
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

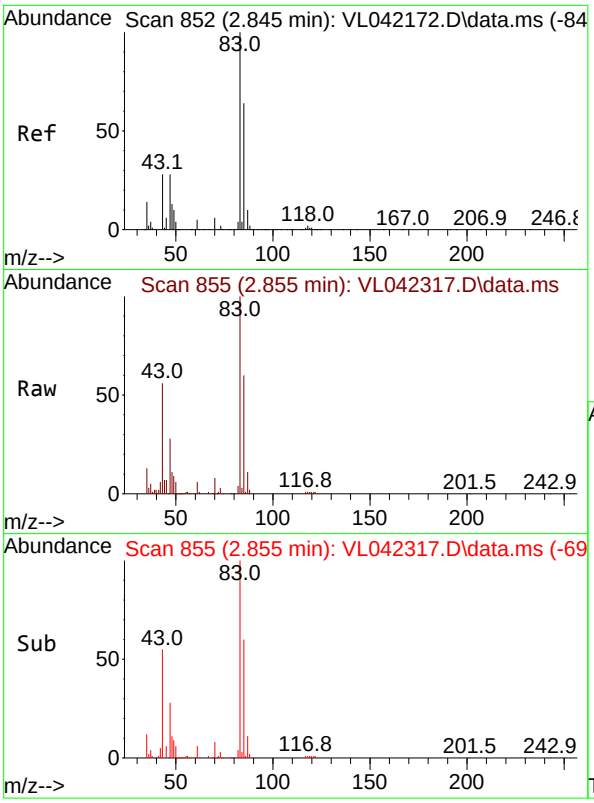



#26
Hexane
Concen: 2.548 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.006 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion: 57 Resp: 64050

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 113.9 | 76.6 | 114.8 |
| 43 | 263.8 | 207.8 | 311.8 |
| 56 | 63.8 | 43.6 | 65.4 |






#29
Chloroform
Concen: 1.362 ppbv
RT: 2.855 min Scan# 8
Delta R.T. 0.009 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion: 83 Resp: 5010

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 60.2 | 51.4 | 77.2 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025

**Manual Integrations**
**APPROVED**

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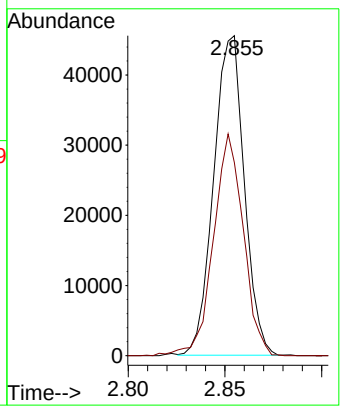
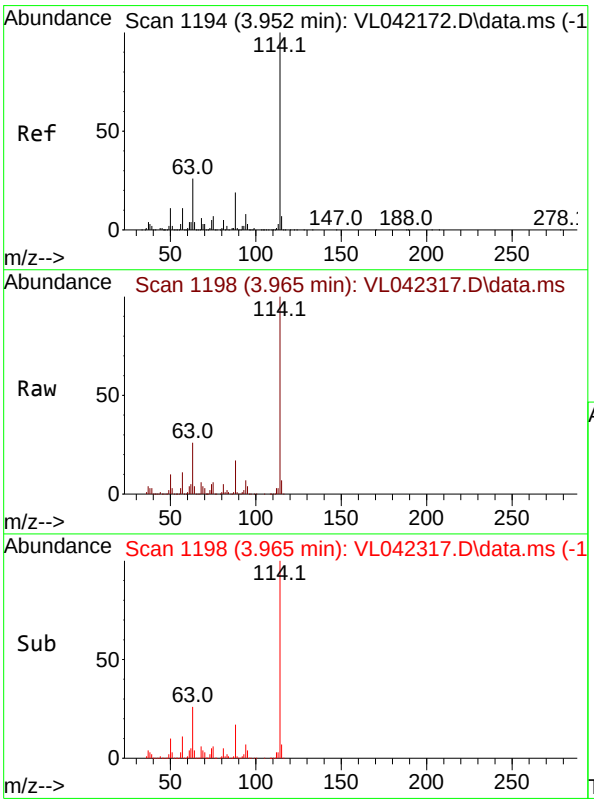
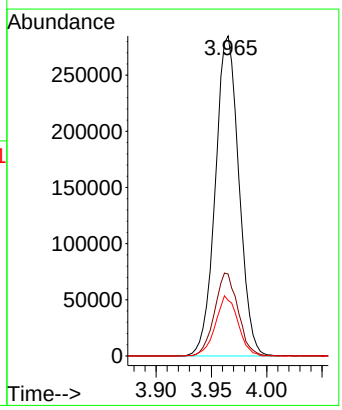


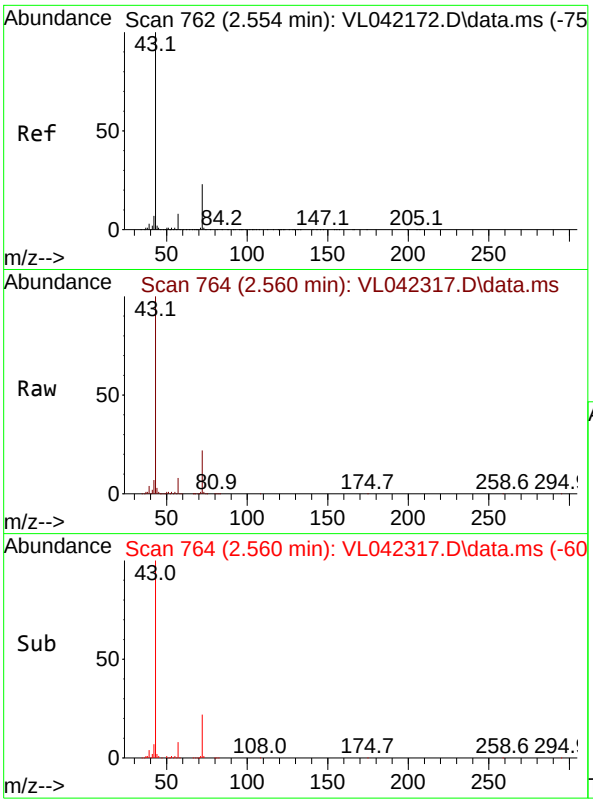




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. 0.013 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion:114 Resp: 422807

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.8 | 20.7 | 31.1 |
| 88 | 17.9 | 15.0 | 22.4 |






#34
2-Butanone
Concen: 26.834 ppbv
RT: 2.560 min Scan# 7
Delta R.T. 0.006 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion: 43 Resp: 82270

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 21.9 | 18.2 | 27.2 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025

**Manual Integrations**
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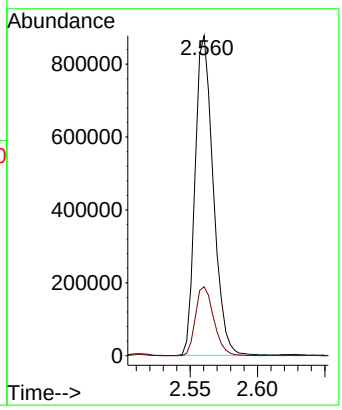
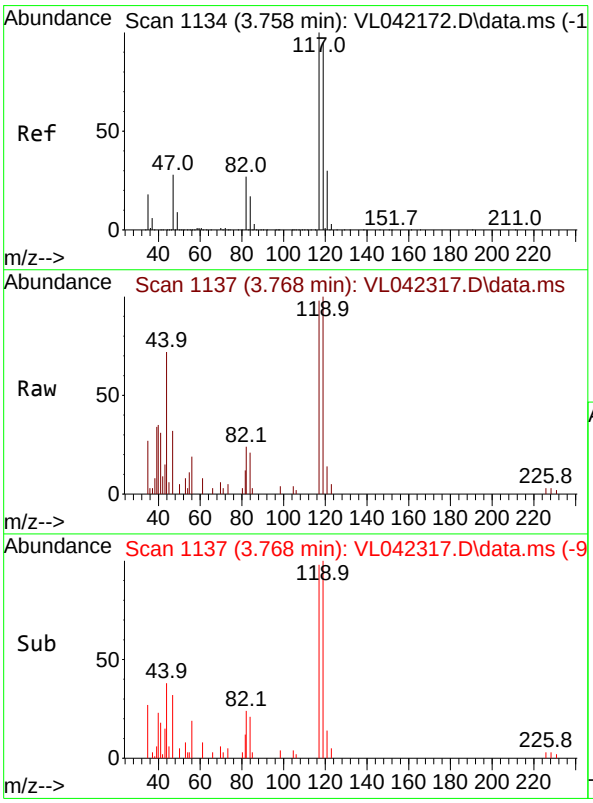
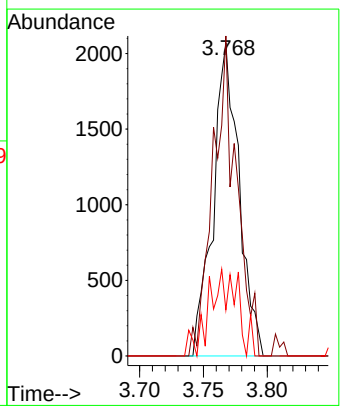


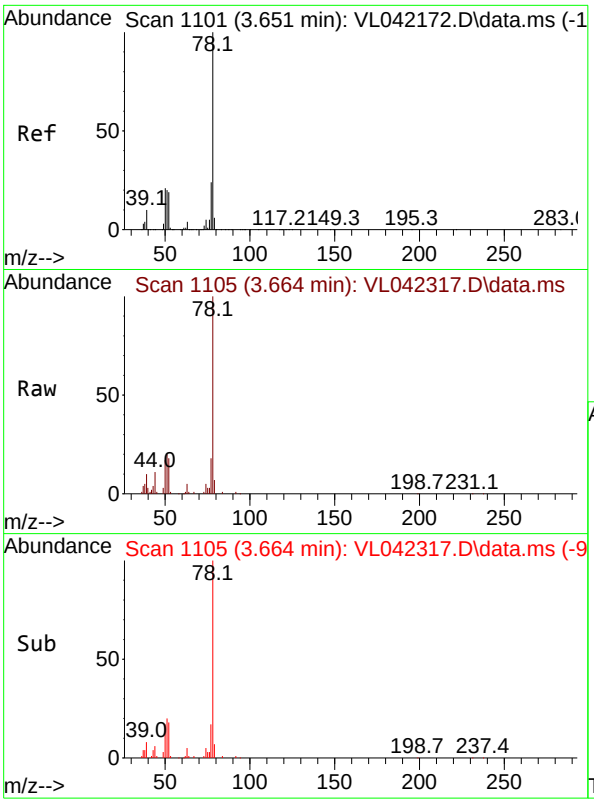




#35
Carbon Tetrachloride
Concen: 0.088 ppbv m
RT: 3.768 min Scan# 1137
Delta R.T. 0.009 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion:117 Resp: 2921

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 102.2 | 76.2 | 114.2 |
| 121 | 14.7 | 24.2 | 36.4# |

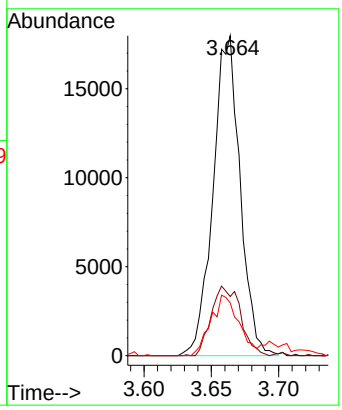





#36
Benzene
Concen: 0.598 ppbv
RT: 3.664 min Scan# 1
Delta R.T. 0.013 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion: 78 Resp: 2506

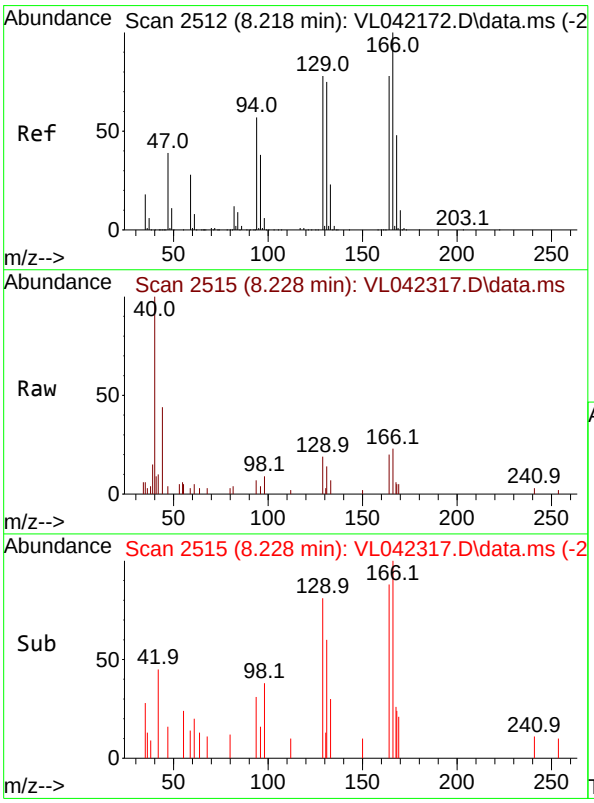
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 18.5 | 19.1 | 28.7# |
| 50 | 16.5 | 16.6 | 24.8# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025

**Manual Integrations**
**APPROVED**

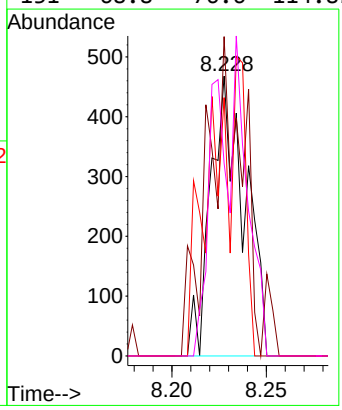
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

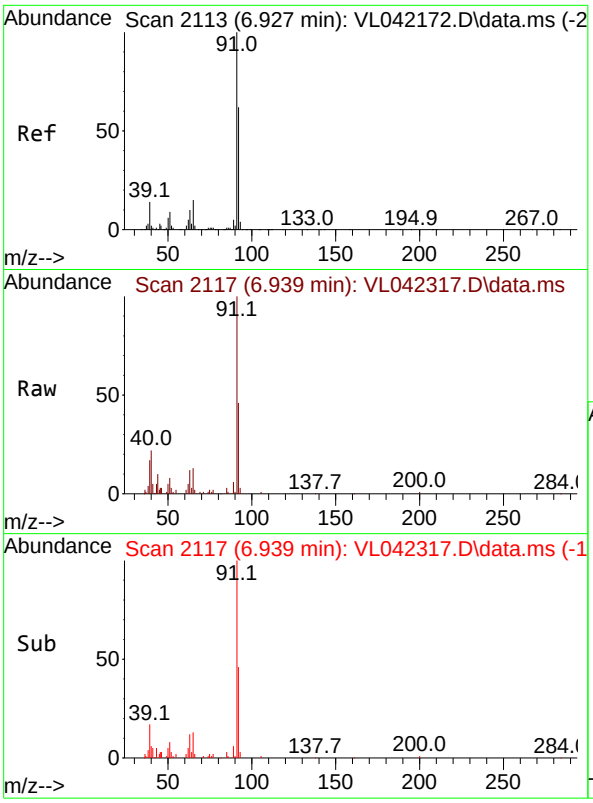



#52
Tetrachloroethene
Concen: 0.035 ppbv m
RT: 8.228 min Scan# 2515
Delta R.T. 0.009 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion:164 Resp: 585

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 114.1 | 102.5 | 153.7 |
| 129 | 92.3 | 79.8 | 119.8 |
| 131 | 68.8 | 76.6 | 114.8# |

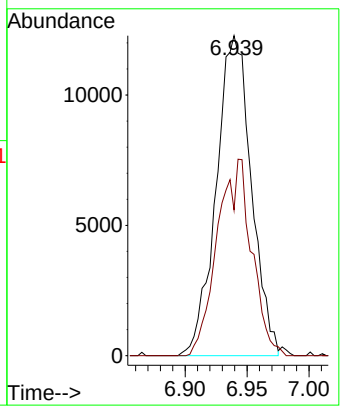





#53
Toluene
Concen: 0.488 ppbv
RT: 6.939 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion: 91 Resp: 2423

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 60.1 | 48.4 | 72.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025

**Manual Integrations**
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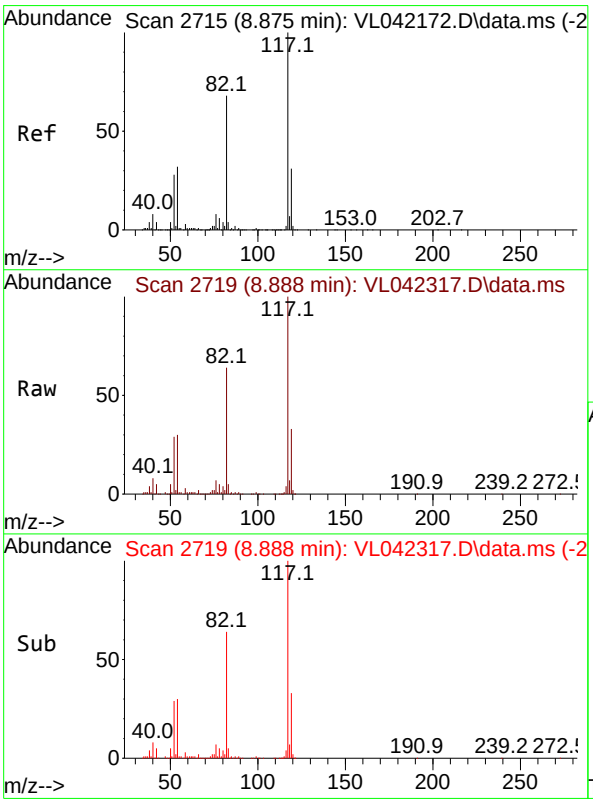
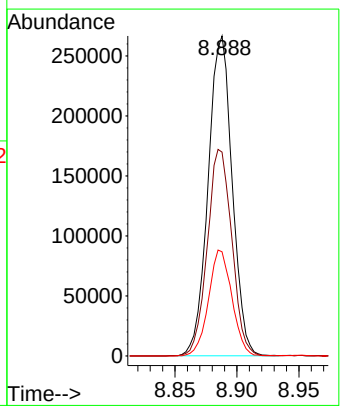
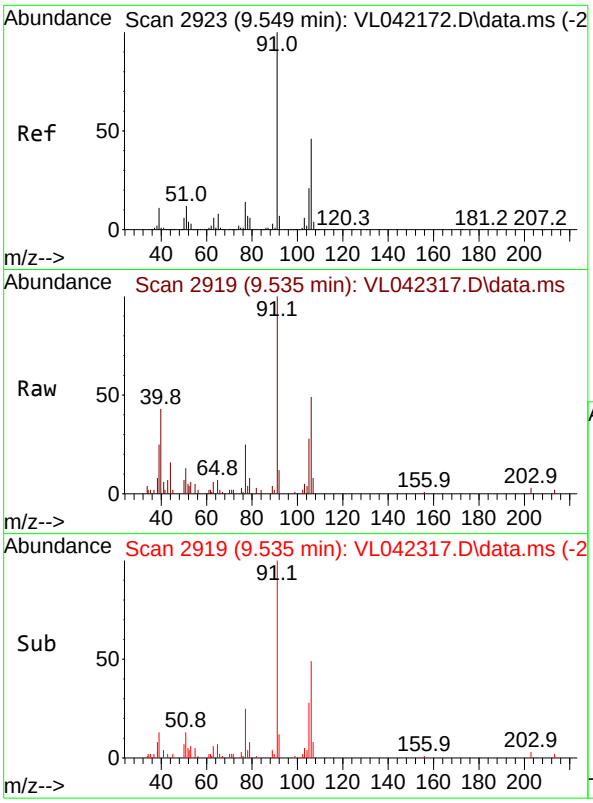



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.013 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion:117 Resp: 360993

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 65.8 | 55.8 | 83.6 |
| 119 | 32.5 | 25.5 | 38.3 |






#59
m/p-Xylene
Concen: 0.190 ppbv m
RT: 9.535 min Scan# 2
Delta R.T. -0.013 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion: 91 Resp: 971

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 0.0 | 36.4 | 54.6# |

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025

**Manual Integrations**
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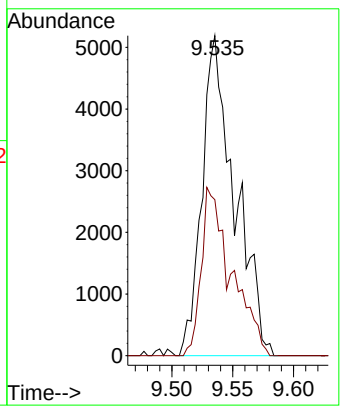
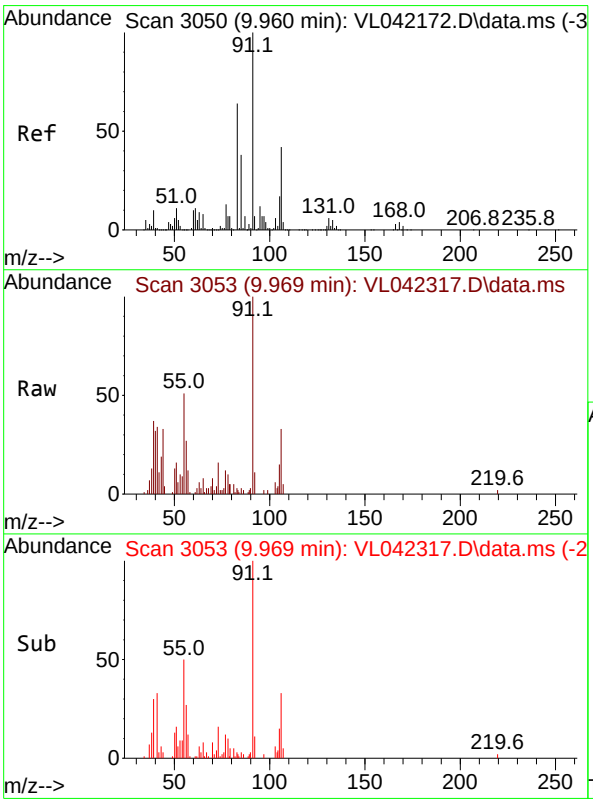
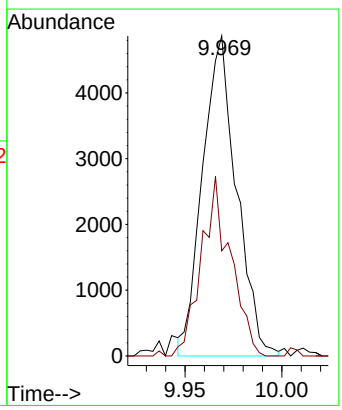


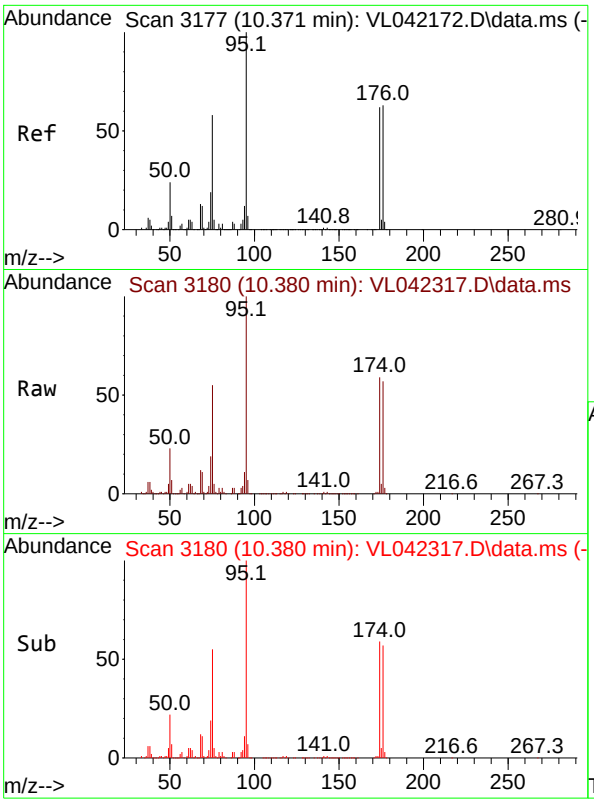




#60
o-Xylene
Concen: 0.116 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. 0.009 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion: 91 Resp: 5940

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 48.4 | 20.8 | 62.5 |

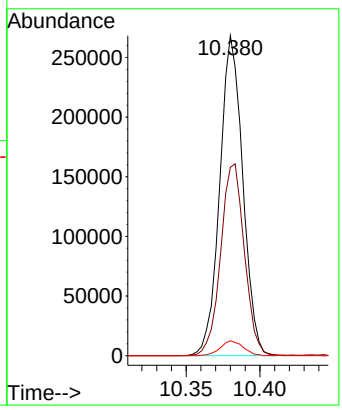





#68
1-Bromo-4-Fluorobenzene
Concen: 9.829 ppbv
RT: 10.380 min Scan# 3
Delta R.T. 0.009 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion: 95 Resp: 29137

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 62.0 | 50.6 | 76.0 |
| 175 | 4.7 | 3.8 | 5.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025

**Manual Integrations**
**APPROVED**

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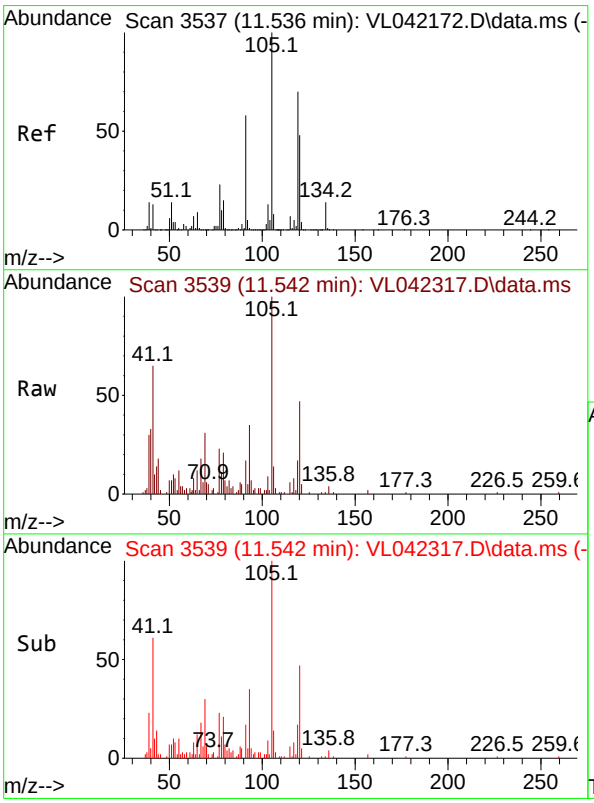
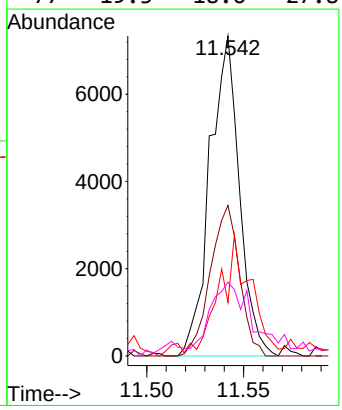



#74
1,2,4-Trimethylbenzene
Concen: 0.121 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.006 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion:105 Resp: 7764

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.1 | 38.6 | 58.0 |
| 91 | 14.6 | 46.2 | 69.2# |
| 77 | 19.3 | 18.6 | 27.8 |



LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042317.D
Acq On : 11 Apr 2025 13:15
Operator : SY/MD
Sample : Q1665-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

Signal : TIC: VL042317.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.431 | 410 | 415 | 421 | rBV | 4482541 | 5052124 | 60.26% | 15.216% |
| 2 | 1.466 | 423 | 426 | 429 | rBV | 386882 | 185005 | 2.21% | 0.557% |
| 3 | 1.489 | 429 | 433 | 436 | rVV | 662537 | 293642 | 3.50% | 0.884% |
| 4 | 1.560 | 450 | 455 | 463 | rVB | 716250 | 427524 | 5.10% | 1.288% |
| 5 | 1.622 | 471 | 474 | 478 | rVB | 154258 | 84399 | 1.01% | 0.254% |
| 6 | 1.725 | 501 | 506 | 515 | rBV | 4344863 | 2985888 | 35.62% | 8.993% |
| 7 | 1.835 | 536 | 540 | 549 | rVB | 5042209 | 3811166 | 45.46% | 11.478% |
| 8 | 1.887 | 549 | 556 | 569 | rVB | 2772547 | 1964262 | 23.43% | 5.916% |
| 9 | 2.062 | 607 | 610 | 619 | rVB2 | 105530 | 85340 | 1.02% | 0.257% |
| 10 | 2.560 | 758 | 764 | 777 | rBV | 1369531 | 1292354 | 15.42% | 3.892% |
| 11 | 2.790 | 827 | 835 | 841 | rBV | 638381 | 661936 | 7.90% | 1.994% |
| 12 | 2.832 | 841 | 848 | 864 | rVB3 | 372995 | 685725 | 8.18% | 2.065% |
| 13 | 3.696 | 1109 | 1115 | 1128 | rVB4 | 76520 | 119959 | 1.43% | 0.361% |
| 14 | 3.962 | 1184 | 1197 | 1212 | rBV | 758733 | 1148776 | 13.70% | 3.460% |
| 15 | 8.888 | 2703 | 2719 | 2729 | rBV | 924924 | 1287814 | 15.36% | 3.879% |
| 16 | 9.157 | 2790 | 2802 | 2814 | rBV3 | 125181 | 197996 | 2.36% | 0.596% |
| 17 | 9.946 | 3035 | 3046 | 3064 | rBV8 | 85724 | 187553 | 2.24% | 0.565% |
| 18 | 10.380 | 3166 | 3180 | 3193 | rBV | 1227490 | 1385001 | 16.52% | 4.171% |
| 19 | 11.429 | 3492 | 3504 | 3512 | rBV3 | 81675 | 101412 | 1.21% | 0.305% |
| 20 | 12.047 | 3686 | 3695 | 3705 | rBV | 2763242 | 2746269 | 32.76% | 8.271% |
| 21 | 12.435 | 3803 | 3815 | 3824 | rBV7 | 74961 | 116054 | 1.38% | 0.350% |
| 22 | 13.390 | 4100 | 4110 | 4121 | rBV2 | 6926152 | 8383575 | 100.00% | 25.249% |

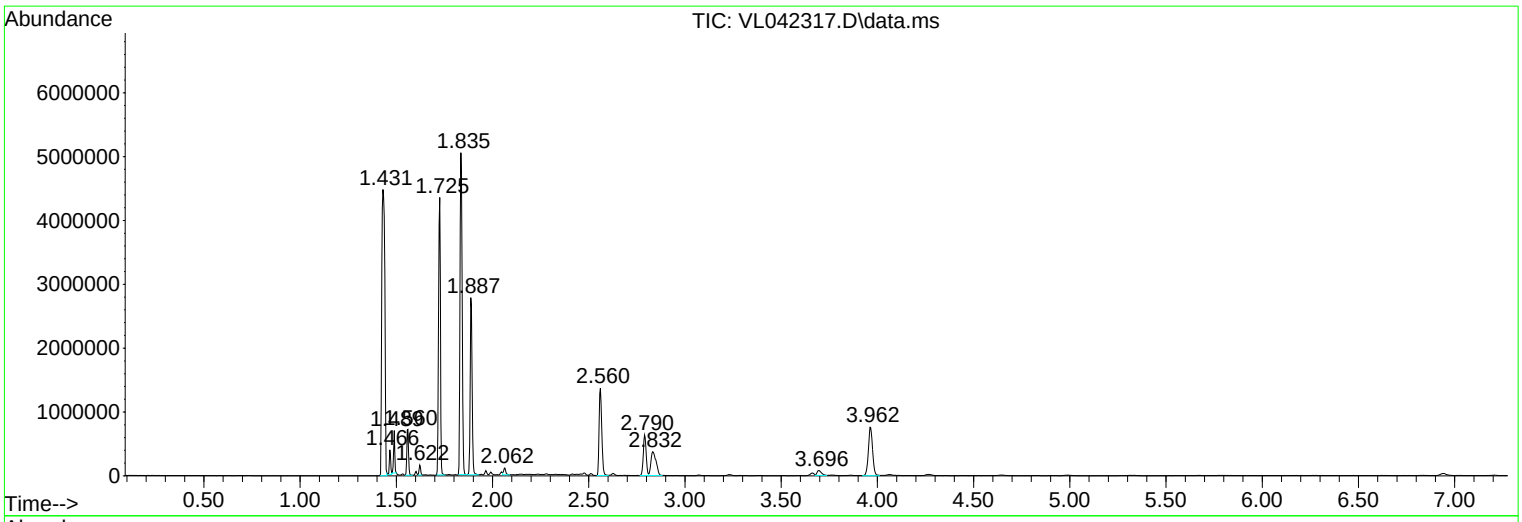
Sum of corrected areas: 33203774

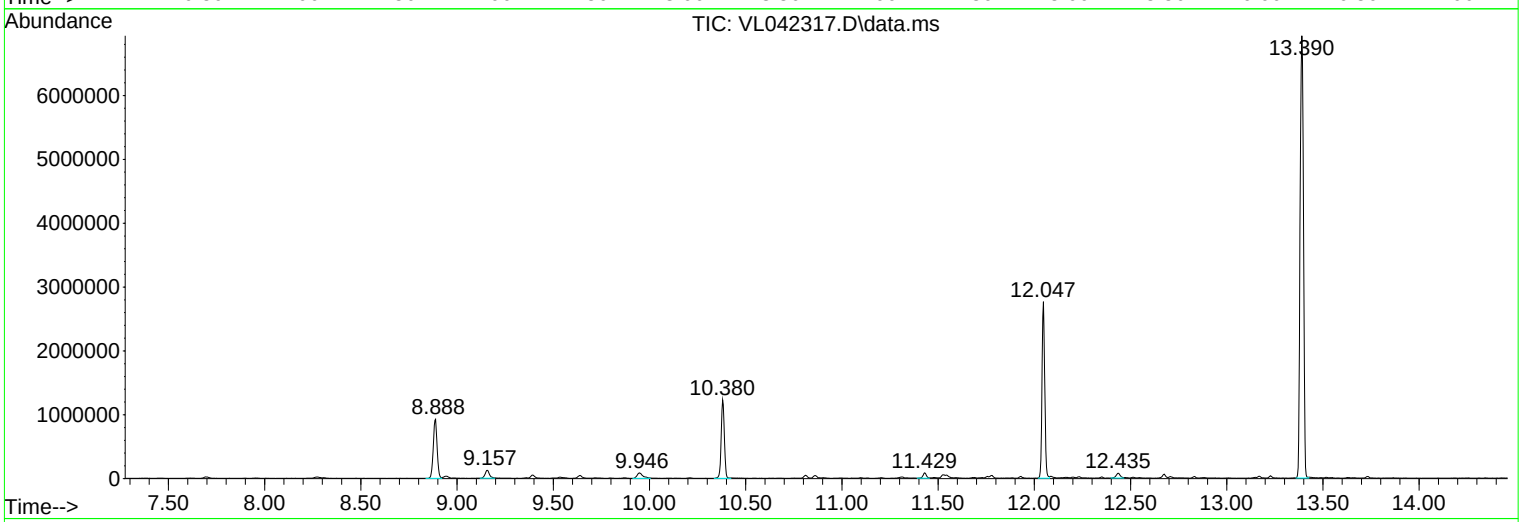
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042317.D
Acq On : 11 Apr 2025 13:15
Operator : SY/MD
Sample : Q1665-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

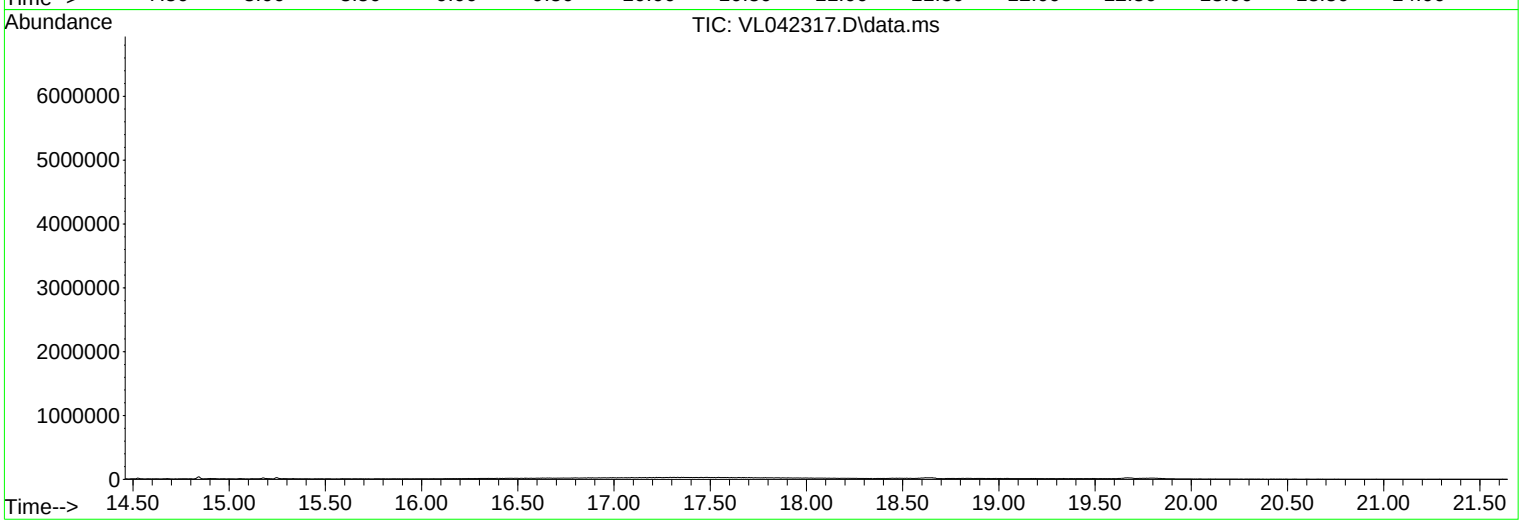
**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042317.D
Acq On : 11 Apr 2025 13:15
Operator : SY/MD
Sample : Q1665-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

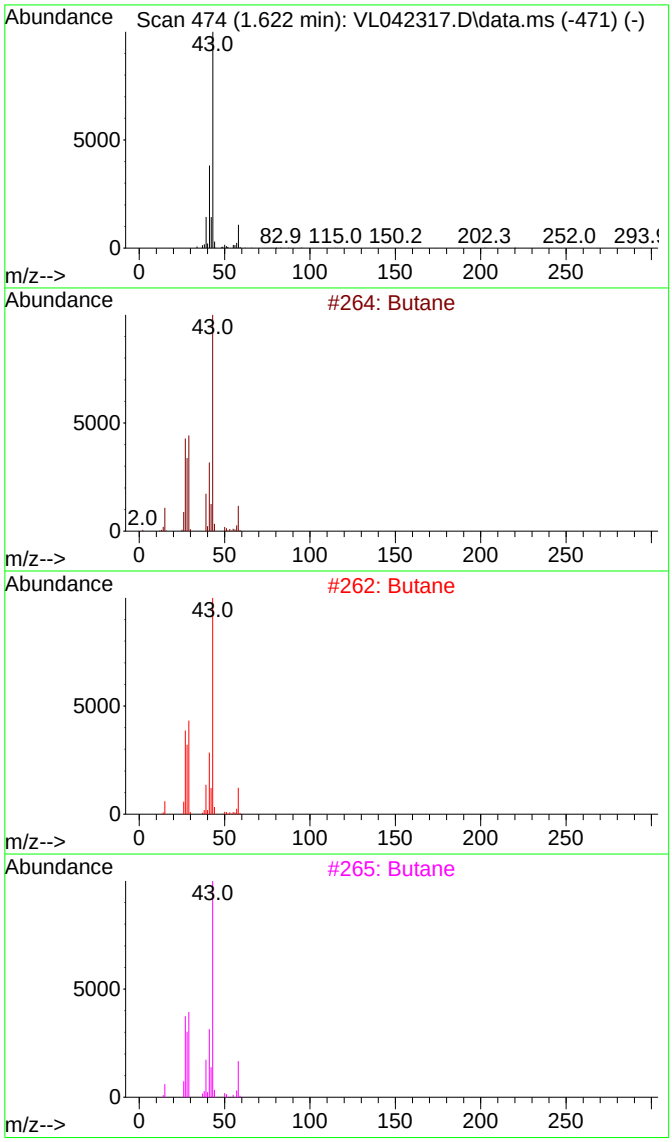
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

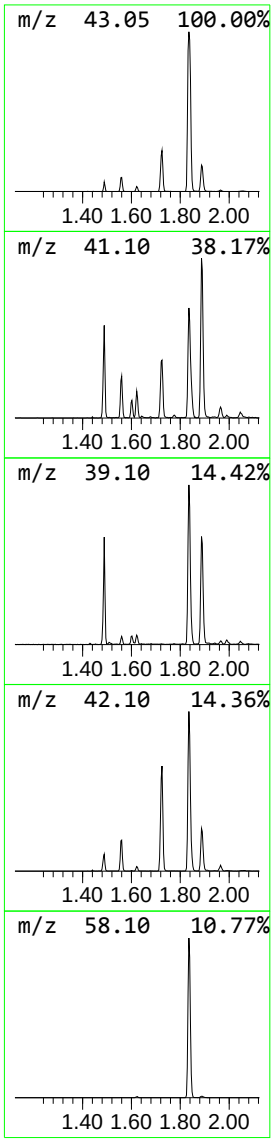
**********

Peak Number 1 Butane Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.622 | 1.28 ppbv | 84399 | Bromochloromethane | 2.790 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane | 58 | C4H10 | 000106-97-8 | 72 |
| 2 | Butane | 58 | C4H10 | 000106-97-8 | 59 |
| 3 | Butane | 58 | C4H10 | 000106-97-8 | 59 |
| 4 | Butane | 58 | C4H10 | 000106-97-8 | 59 |
| 5 | Isobutane | 58 | C4H10 | 000075-28-5 | 9 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042317.D
Acq On : 11 Apr 2025 13:15
Operator : SY/MD
Sample : Q1665-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025

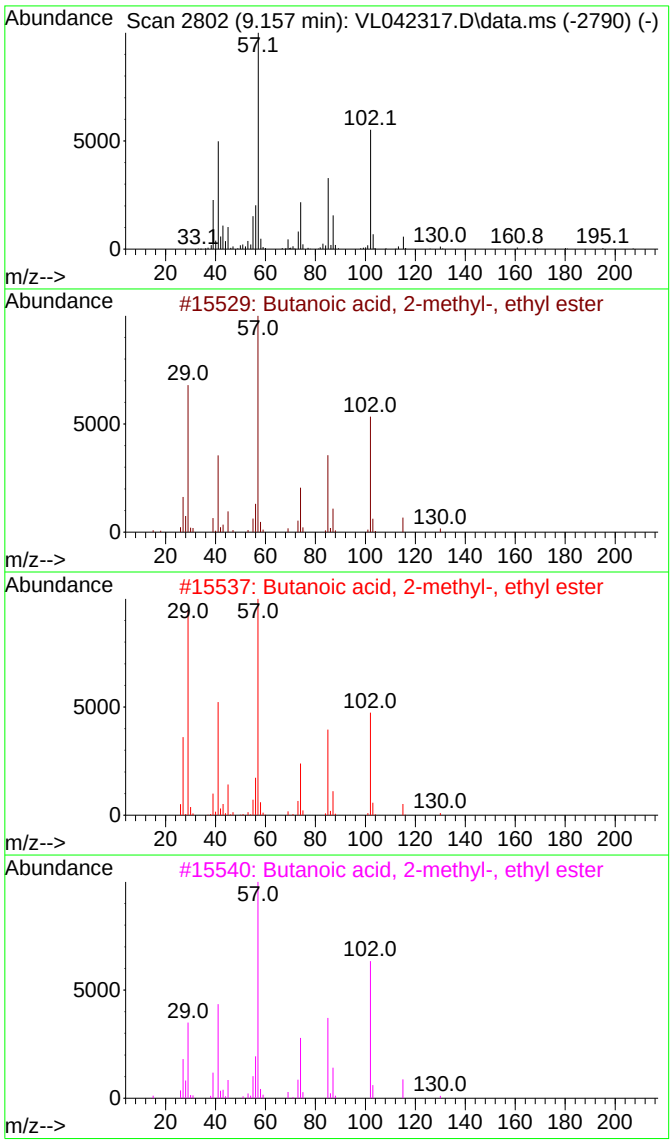
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

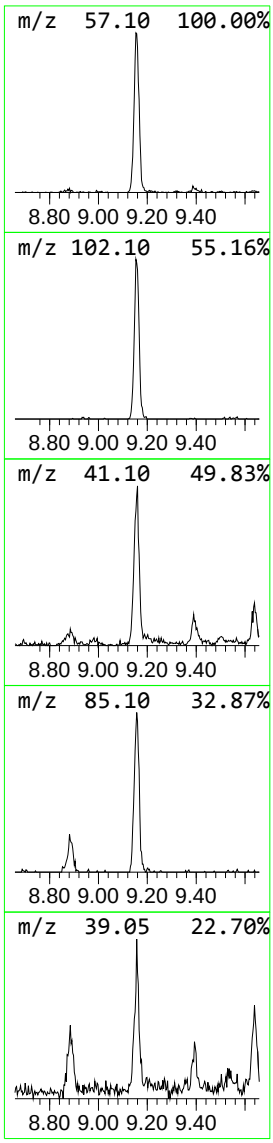
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 2 Butanoic acid, 2-methyl-, e... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.157 | 1.54 ppbv | 197996 | Chlorobenzene-d5 | 8.888 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butanoic acid, 2-methyl-, ethyl ... | 130 | C7H14O2 | 007452-79-1 | 93 |
| 2 | Butanoic acid, 2-methyl-, ethyl ... | 130 | C7H14O2 | 007452-79-1 | 81 |
| 3 | Butanoic acid, 2-methyl-, ethyl ... | 130 | C7H14O2 | 007452-79-1 | 76 |
| 4 | Butanoic acid, 2-methyl-, ethyl ... | 130 | C7H14O2 | 007452-79-1 | 74 |
| 5 | Propanoic acid, ethyl ester | 102 | C5H10O2 | 000105-37-3 | 40 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042317.D
Acq On : 11 Apr 2025 13:15
Operator : SY/MD
Sample : Q1665-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

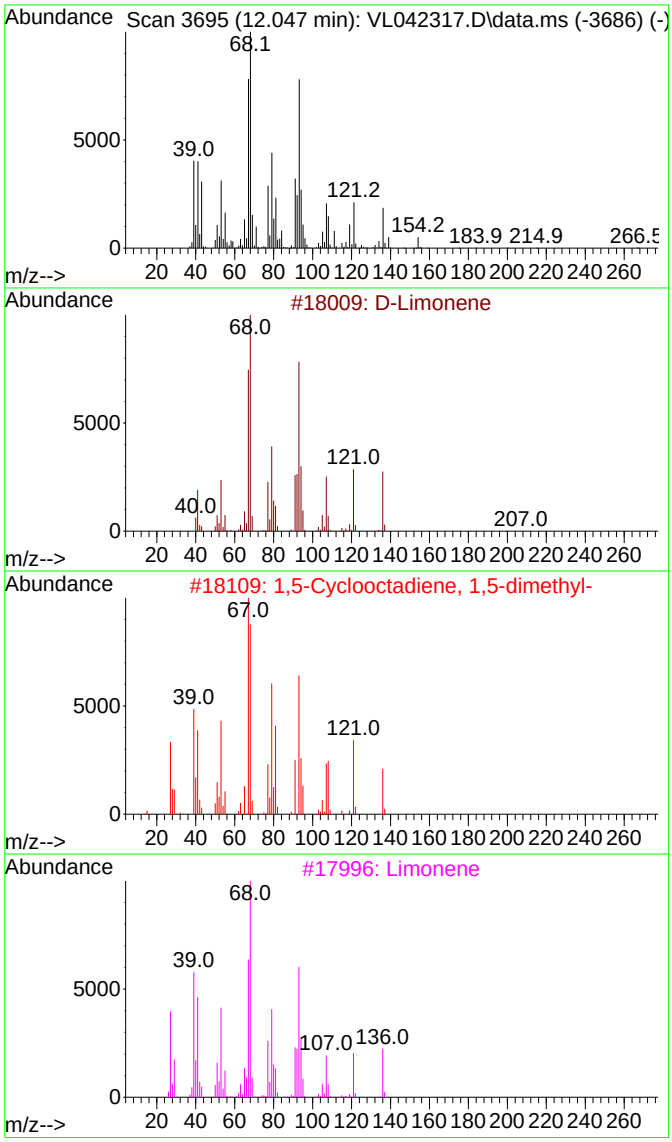
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

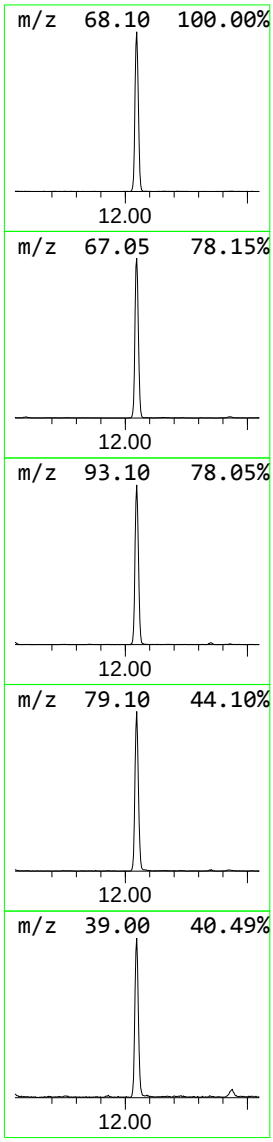
**********

Peak Number 3 D-Limonene Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.047 | 21.32 ppbv | 2746270 | Chlorobenzene-d5 | 8.888 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | D-Limonene | 136 | C10H16 | 005989-27-5 | 97 |
| 2 | 1,5-Cyclooctadiene, 1,5-dimethyl- | 136 | C10H16 | 003760-14-3 | 92 |
| 3 | Limonene | 136 | C10H16 | 000138-86-3 | 86 |
| 4 | Limonene | 136 | C10H16 | 000138-86-3 | 81 |
| 5 | D-Limonene | 136 | C10H16 | 005989-27-5 | 81 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042317.D
Acq On : 11 Apr 2025 13:15
Operator : SY/MD
Sample : Q1665-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025

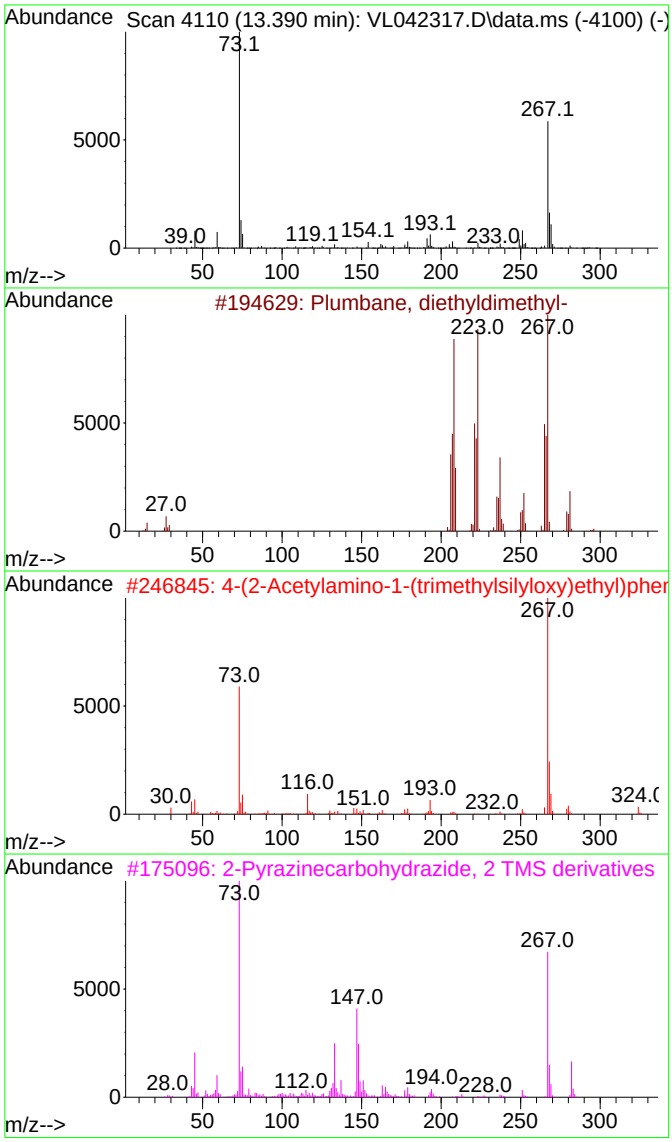
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

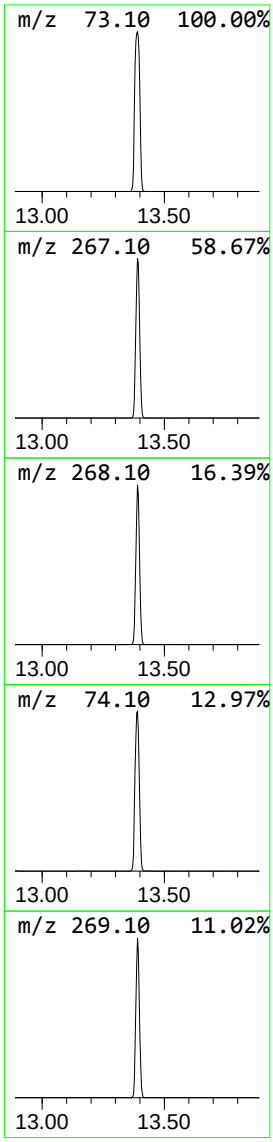
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 4 Plumbane, diethyldimethyl- Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.390 | 65.10 ppbv | 8383580 | Chlorobenzene-d5 | 8.888 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Plumbane, diethyldimethyl- | 296 | C6H16Pb | 001762-27-2 | 91 |
| 2 | 4-(2-Acetylamino-1-(trimethylsil... | 339 | C16H29NO3Si2 | 1000373-43-5 | 72 |
| 3 | 2-Pyrazinecarbohydrazide, 2 TMS ... | 282 | C11H22N4OSi2 | 1000477-45-2 | 72 |
| 4 | 2,5-Dihydroxybenzaldehyde, 2TMS ... | 282 | C13H22O3Si2 | 056114-69-3 | 64 |
| 5 | Salicylic acid, 2TMS derivative | 282 | C13H22O3Si2 | 003789-85-3 | 64 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042317.D
Acq On : 11 Apr 2025 13:15
Operator : SY/MD
Sample : Q1665-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Butane | 1.622 | 1.3 | ppbv | 84399 | 1 | 2.790 | 661936 | 10.0 |
| Butanoic acid, ... | 9.157 | 1.5 | ppbv | 197996 | 3 | 8.888 | 1287810 | 10.0 |
| D-Limonene | 12.047 | 21.3 | ppbv | 2746270 | 3 | 8.888 | 1287810 | 10.0 |
| Plumbane, dieth... | 13.390 | 65.1 | ppbv | 8383580 | 3 | 8.888 | 1287810 | 10.0 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B10-2-3242025DL | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-03DL | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042322.D | 10 | | 04/11/25 16:08 | VL041125 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 2.10 | 10.4 | UD | 10.4 | 24.7 | ug/m3 |
| 64-17-5 | Ethanol | 1800 | 3390 | EDQ | 6.03 | 9.42 | ug/m3 |
| 74-87-3 | Chloromethane | 0.98 | 2.02 | UD | 2.02 | 10.3 | ug/m3 |
| 75-01-4 | Vinyl Chloride | 0.14 | 0.36 | UD | 0.36 | 0.77 | ug/m3 |
| 74-83-9 | Bromomethane | 1.40 | 5.44 | UD | 5.44 | 19.4 | ug/m3 |
| 75-00-3 | Chloroethane | 1.70 | 4.49 | UD | 4.49 | 13.2 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | 1.30 | 3.83 | UD | 3.83 | 14.8 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | 1.60 | 8.99 | UD | 8.99 | 28.1 | ug/m3 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 1.60 | 12.3 | UD | 12.3 | 38.3 | ug/m3 |
| 76-14-2 | Dichlorotetrafluoroethane | 0.88 | 6.15 | UD | 6.15 | 35.0 | ug/m3 |
| 593-60-2 | Bromoethene | 1.20 | 5.25 | UD | 5.25 | 21.9 | ug/m3 |
| 75-65-0 | tert-Butyl alcohol | 1.90 | 5.76 | UD | 5.76 | 15.2 | ug/m3 |
| 142-82-5 | Heptane | 1.10 | 4.51 | UD | 4.51 | 20.5 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | 88.0 | 216 | D | 1.70 | 12.3 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethene | 1.40 | 5.55 | UD | 5.55 | 19.8 | ug/m3 |
| 67-64-1 | Acetone | 140 | 333 | D | 5.70 | 11.9 | ug/m3 |
| 75-15-0 | Carbon Disulfide | 1.60 | 4.98 | UD | 4.98 | 15.6 | ug/m3 |
| 1634-04-4 | Methyl tert-Butyl Ether | 1.20 | 4.33 | UD | 4.33 | 18.0 | ug/m3 |
| 75-09-2 | Methylene Chloride | 3.30 | 11.5 | JD | 6.60 | 17.4 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethene | 1.90 | 7.53 | UD | 7.53 | 19.8 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | 1.30 | 5.26 | UD | 5.26 | 20.2 | ug/m3 |
| 110-82-7 | Cyclohexane | 2.20 | 7.57 | UD | 7.57 | 17.2 | ug/m3 |
| 78-93-3 | 2-Butanone | 21.5 | 63.4 | D | 3.54 | 14.8 | ug/m3 |
| 56-23-5 | Carbon Tetrachloride | 0.11 | 0.69 | UD | 0.69 | 1.89 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.89 | 3.53 | UD | 3.53 | 19.8 | ug/m3 |
| 67-66-3 | Chloroform | 1.40 | 6.84 | JD | 4.05 | 24.4 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.10 | 0.55 | UD | 0.55 | 1.64 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | 1.00 | 4.67 | UD | 4.67 | 23.4 | ug/m3 |
| 71-43-2 | Benzene | 0.87 | 2.78 | UD | 2.78 | 16.0 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | 0.91 | 3.68 | UD | 3.68 | 20.2 | ug/m3 |
| 79-01-6 | Trichloroethene | 0.17 | 0.91 | UD | 0.91 | 1.61 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | 1.10 | 5.08 | UD | 5.08 | 23.1 | ug/m3 |
| 75-27-4 | Bromodichloromethane | 0.77 | 5.16 | UD | 5.16 | 33.5 | ug/m3 |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.93 | 3.81 | UD | 3.81 | 20.5 | ug/m3 |
| 108-88-3 | Toluene | 1.10 | 4.15 | UD | 4.15 | 18.8 | ug/m3 |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B10-2-3242025DL | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-03DL | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042322.D | 10 | | 04/11/25 16:08 | VL041125 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.60 | 2.72 | UD | 2.72 | 22.7 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.64 | 2.91 | UD | 2.91 | 22.7 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.71 | 3.87 | UD | 3.87 | 27.3 | ug/m3 |
| 124-48-1 | Dibromochloromethane | 0.66 | 5.62 | UD | 5.62 | 42.6 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane | 0.72 | 5.53 | UD | 5.53 | 7.69 | ug/m3 |
| 127-18-4 | Tetrachloroethene | 0.15 | 1.02 | UD | 1.02 | 2.03 | ug/m3 |
| 108-90-7 | Chlorobenzene | 0.76 | 3.50 | UD | 3.50 | 23.0 | ug/m3 |
| 100-41-4 | Ethyl Benzene | 1.20 | 5.21 | UD | 5.21 | 21.7 | ug/m3 |
| 179601-23-1 | m/p-Xylene | 2.10 | 9.12 | UD | 9.12 | 43.4 | ug/m3 |
| 95-47-6 | o-Xylene | 1.20 | 5.21 | UD | 5.21 | 21.7 | ug/m3 |
| 100-42-5 | Styrene | 1.10 | 4.68 | UD | 4.68 | 21.3 | ug/m3 |
| 75-25-2 | Bromoform | 0.57 | 5.89 | UD | 5.89 | 51.7 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.11 | 0.76 | UDQ | 0.76 | 2.06 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | 1.10 | 5.70 | UD | 5.70 | 25.9 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 1.10 | 5.41 | UD | 5.41 | 24.6 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.78 | 3.83 | UD | 3.83 | 24.6 | ug/m3 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.80 | 4.81 | UD | 4.81 | 30.1 | ug/m3 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.53 | 3.19 | UD | 3.19 | 30.1 | ug/m3 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.75 | 4.51 | UDQ | 4.51 | 30.1 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.85 | 6.31 | UD | 6.31 | 37.1 | ug/m3 |
| 87-68-3 | Hexachloro-1,3-Butadiene | 0.85 | 9.07 | UD | 9.07 | 53.3 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | 1.30 | 2.88 | UD | 2.88 | 11.1 | ug/m3 |
| 91-20-3 | Naphthalene | 0.75 | 3.93 | UD | 3.93 | 5.24 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | 1.20 | 5.90 | UD | 5.90 | 24.6 | ug/m3 |
| 110-54-3 | Hexane | 1.90 | 6.70 | JD | 3.88 | 17.6 | ug/m3 |
| 107-05-1 | Allyl Chloride | 1.50 | 4.70 | UD | 4.70 | 15.7 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | 2.10 | 7.57 | UD | 7.57 | 18.0 | ug/m3 |
| 80-62-6 | Methyl Methacrylate | 0.86 | 3.52 | UD | 3.52 | 20.5 | ug/m3 |
| **SURROGATES** | | | | | | | |
| 460-00-4 | 1-Bromo-4-Fluorobenzene | 9.10 | | | 70 (65) - 130 (135) | 91% | SPK: 10 |
| **INTERNAL STANDARDS** | | | | | | | |
| 74-97-5 | Bromochloromethane | 183000 | | 2.791 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 438000 | | 3.965 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 361000 | | 8.885 | | | |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B10-2-3242025DL | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-03DL | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042322.D | 10 | | 04/11/25 16:08 | VL041125 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042322.D
Acq On : 11 Apr 2025 16:08
Operator : SY/MD
Sample : Q1665-03DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025DL

Quant Time: Apr 11 23:02:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

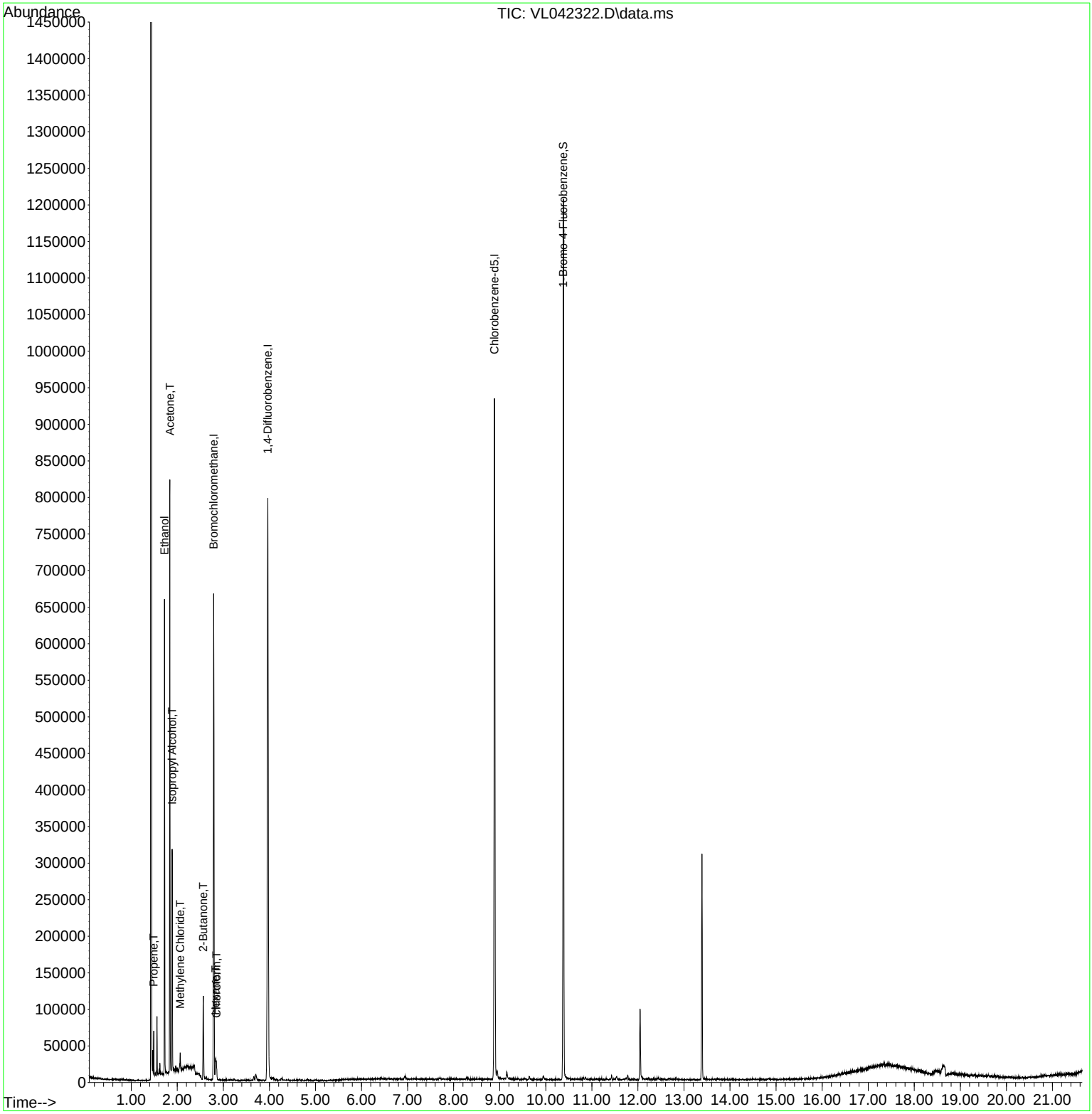
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 2.791 | 49 | 183437 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.965 | 114 | 437835 | 10.000 | ppbv | | 0.01 |
| 55) Chlorobenzene-d5 | 8.885 | 117 | 360512 | 10.000 | ppbv | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.380 | 95 | 268511 | 9.070 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 90.700% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 9) Propene | 1.489 | 41 | 5497 | 0.433 | ppbv | | 91 |
| 13) Ethanol | 1.722 | 45 | 212244 | 177.037 | ppbv | | 84 |
| 15) Acetone | 1.839 | 43 | 354601 | 13.822 | ppbv | | 95 |
| 19) Isopropyl Alcohol | 1.888 | 45 | 127328 | 8.796 | ppbv | # | 59 |
| 20) Methylene Chloride | 2.062 | 84 | 3179 | 0.333 | ppbv | | 93 |
| 26) Hexane | 2.829 | 57 | 4958 | 0.193 | ppbv | # | 79 |
| 29) Chloroform | 2.852 | 83 | 5087 | 0.135 | ppbv | | 100 |
| 34) 2-Butanone | 2.564 | 43 | 68236 | 2.149 | ppbv | | 97 |

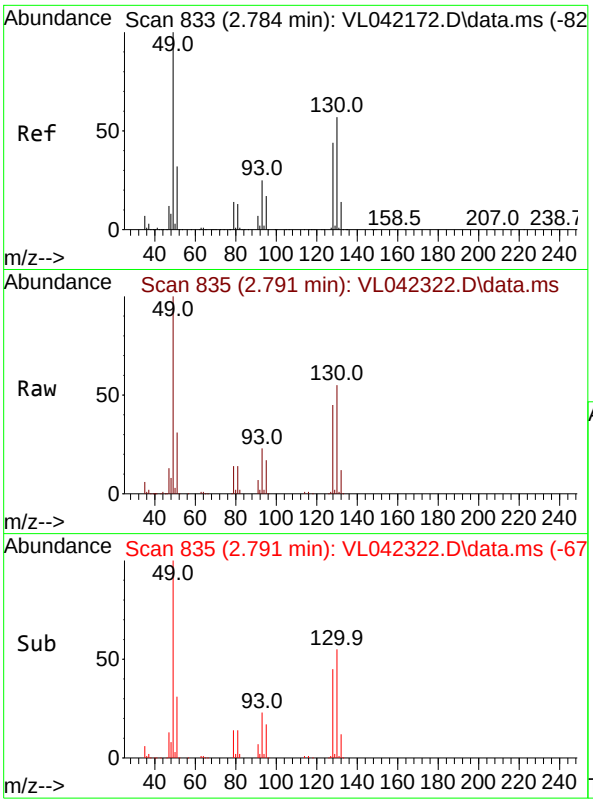
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042322.D
Acq On : 11 Apr 2025 16:08
Operator : SY/MD
Sample : Q1665-03DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025DL

Quant Time: Apr 11 23:02:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration



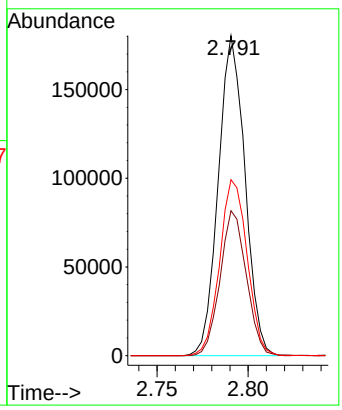


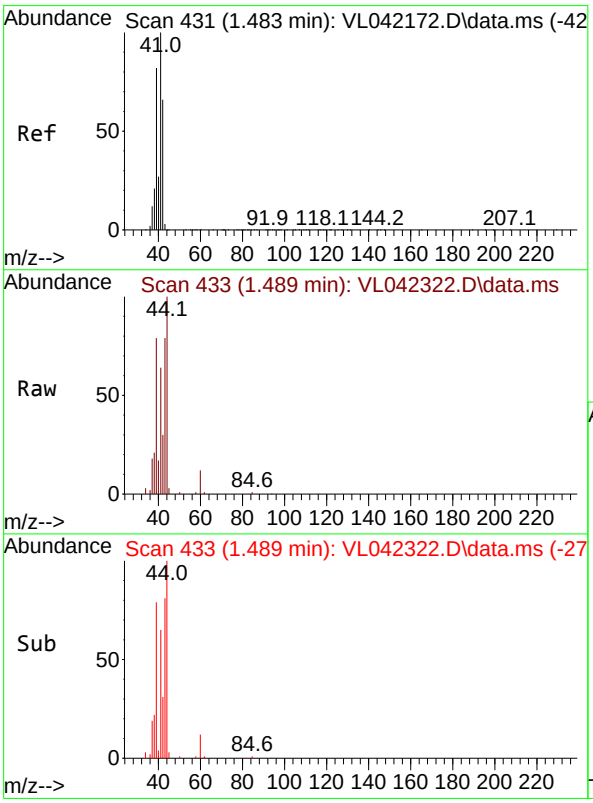

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 8
Delta R.T. 0.007 min
Lab File: VL042322.D
Acq: 11 Apr 2025 16:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025DL

Tgt Ion: 49 Resp: 183437

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 44.6 | 22.9 | 68.5 |
| 130 | 56.8 | 28.8 | 86.4 |

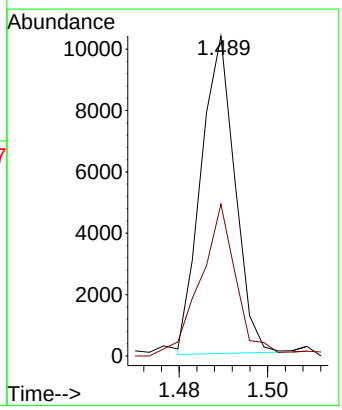


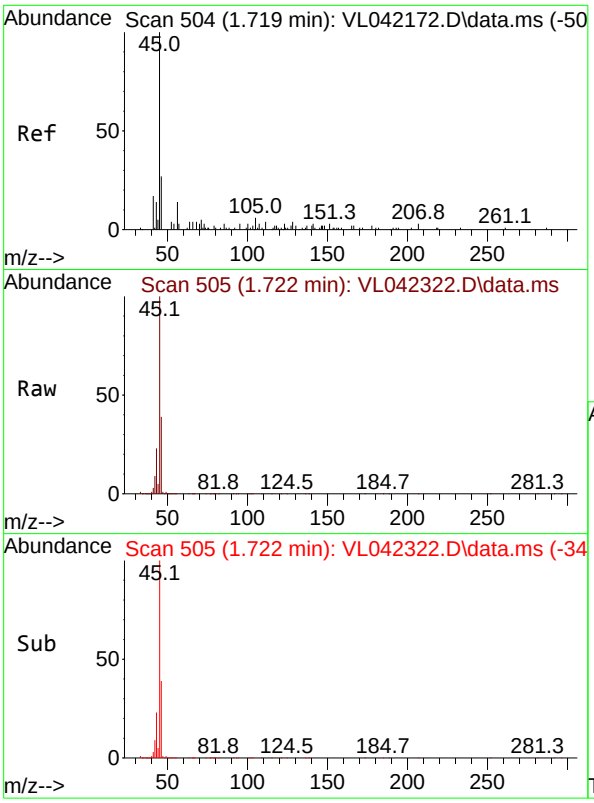




#9
Propene
Concen: 0.433 ppbv
RT: 1.489 min Scan# 433
Delta R.T. 0.007 min
Lab File: VL042322.D
Acq: 11 Apr 2025 16:08

Tgt Ion: 41 Resp: 5497

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 62.3 | 55.4 | 83.2 |



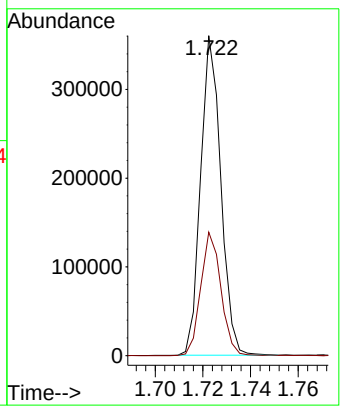


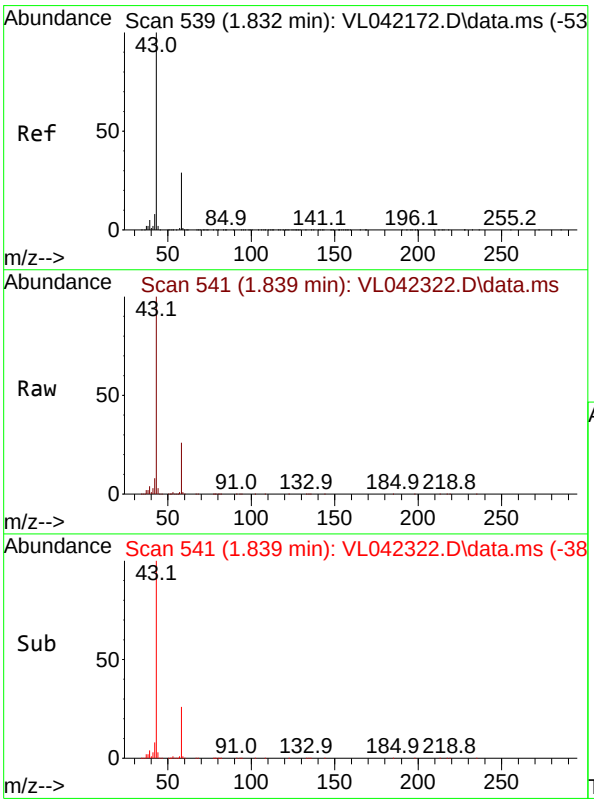

#13
Ethanol
Concen: 177.037 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042322.D
Acq: 11 Apr 2025 16:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025DL

Tgt Ion: 45 Resp: 212244

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 39.1 | 20.2 | 80.8 |

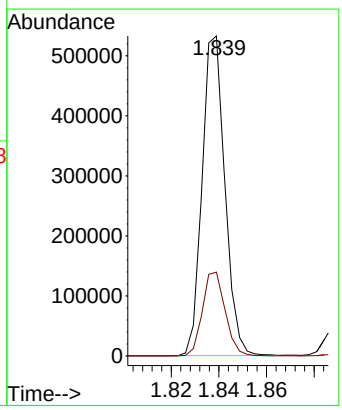


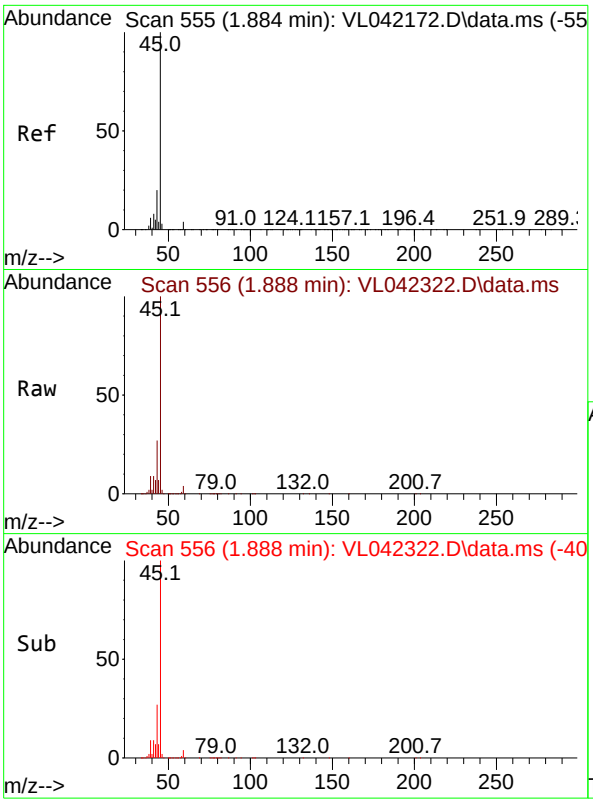




#15
Acetone
Concen: 13.822 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.007 min
Lab File: VL042322.D
Acq: 11 Apr 2025 16:08

Tgt Ion: 43 Resp: 354601

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 26.3 | 23.2 | 34.8 |



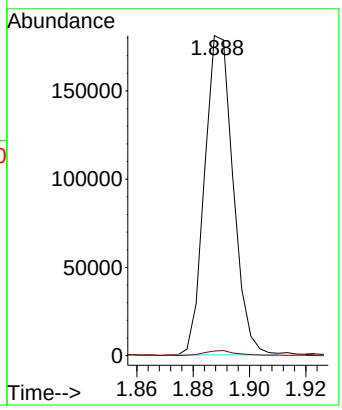


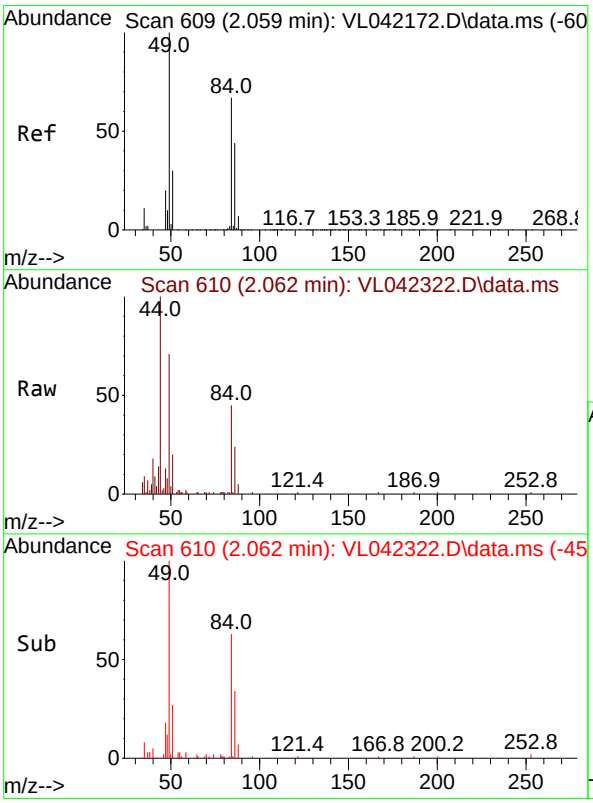

#19
Isopropyl Alcohol
Concen: 8.796 ppbv
RT: 1.888 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042322.D
Acq: 11 Apr 2025 16:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025DL

Tgt Ion: 45 Resp: 127328

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 73.2 | 36.9 | 55.3# |

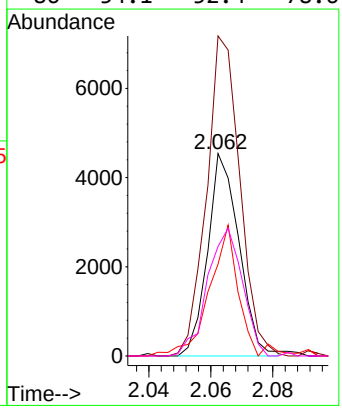


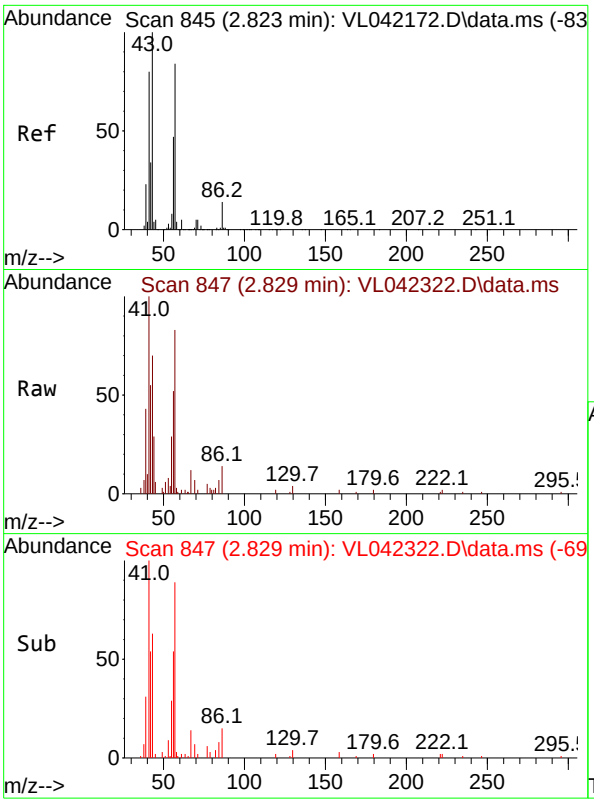




#20
Methylene Chloride
Concen: 0.333 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042322.D
Acq: 11 Apr 2025 16:08

Tgt Ion: 84 Resp: 3179

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 156.6 | 120.2 | 180.4 |
| 51 | 43.2 | 37.4 | 56.0 |
| 86 | 54.1 | 52.4 | 78.6 |



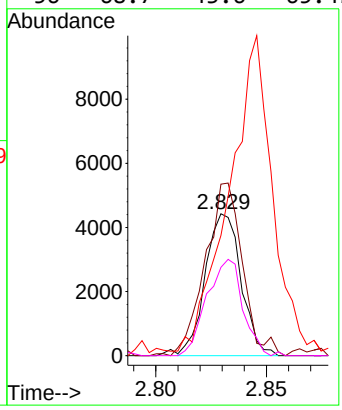


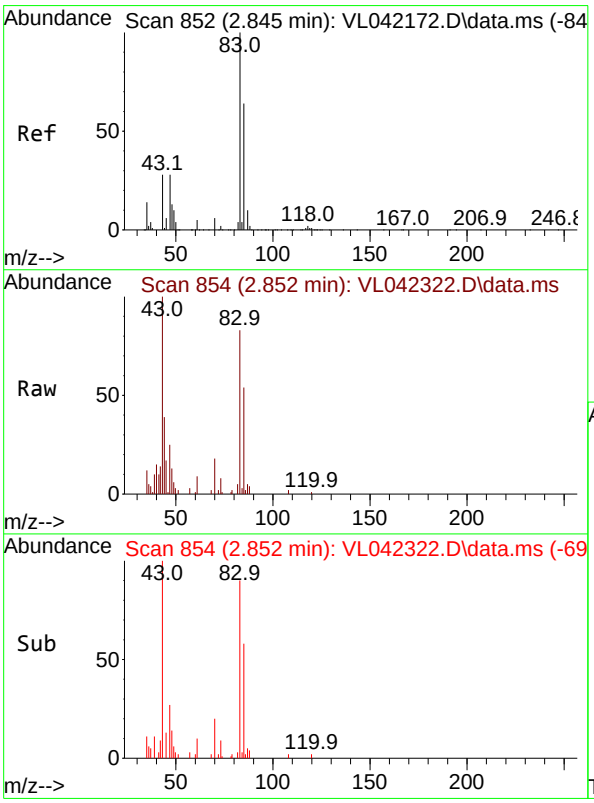

#26
Hexane
Concen: 0.193 ppbv
RT: 2.829 min Scan# 84
Delta R.T. 0.007 min
Lab File: VL042322.D
Acq: 11 Apr 2025 16:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025DL

Tgt Ion: 57 Resp: 4958

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 135.9 | 76.6 | 114.8# |
| 43 | 284.3 | 207.8 | 311.8 |
| 56 | 68.7 | 43.6 | 65.4# |

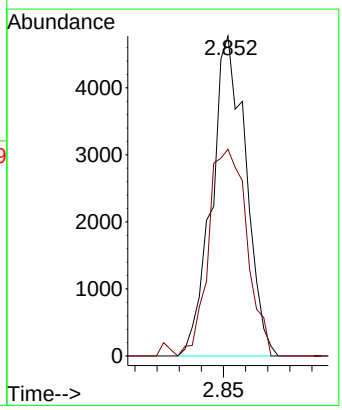


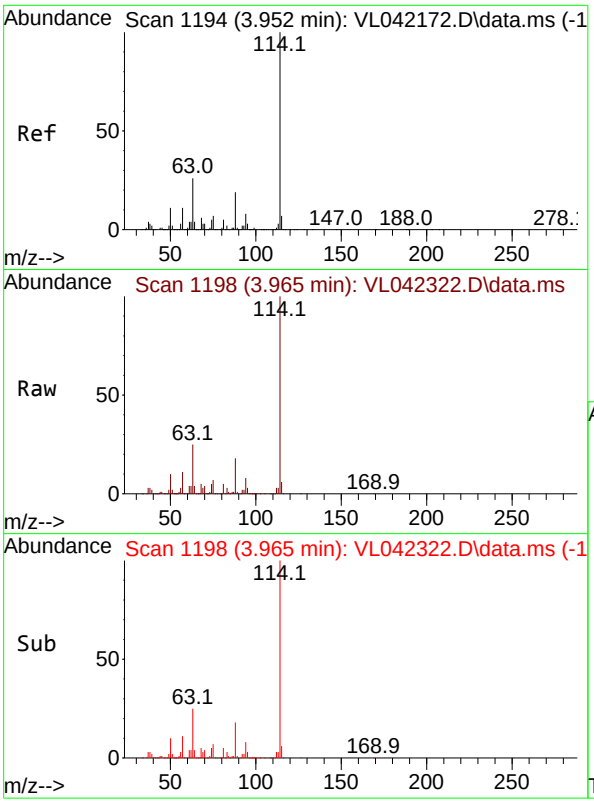




#29
Chloroform
Concen: 0.135 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.007 min
Lab File: VL042322.D
Acq: 11 Apr 2025 16:08

Tgt Ion: 83 Resp: 5087

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.6 | 51.4 | 77.2 |



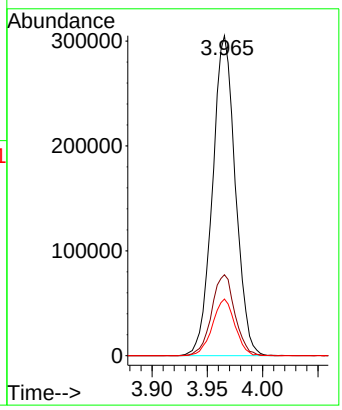


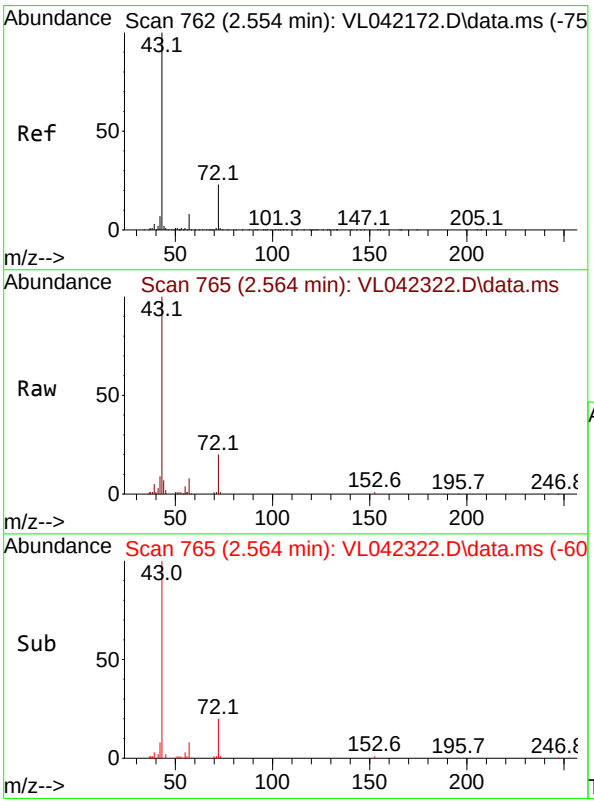

#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 11
Delta R.T. 0.013 min
Lab File: VL042322.D
Acq: 11 Apr 2025 16:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025DL

Tgt Ion:114 Resp: 437835

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.9 | 20.7 | 31.1 |
| 88 | 17.5 | 15.0 | 22.4 |

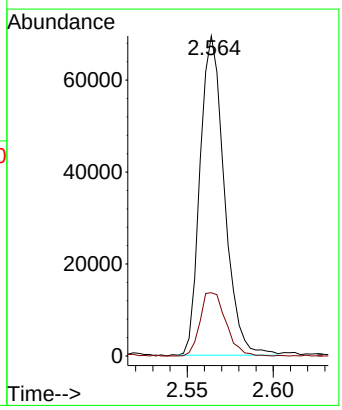


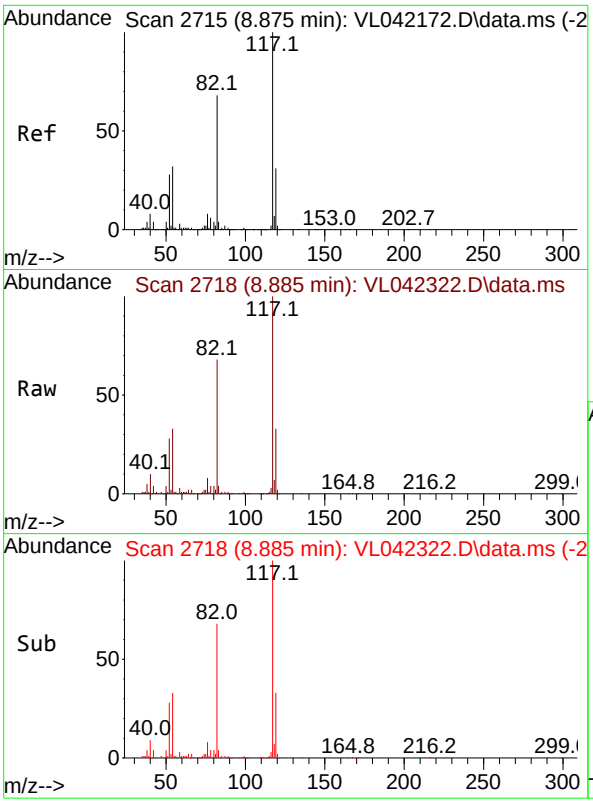




#34
2-Butanone
Concen: 2.149 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.010 min
Lab File: VL042322.D
Acq: 11 Apr 2025 16:08

Tgt Ion: 43 Resp: 68236

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 21.2 | 18.2 | 27.2 |



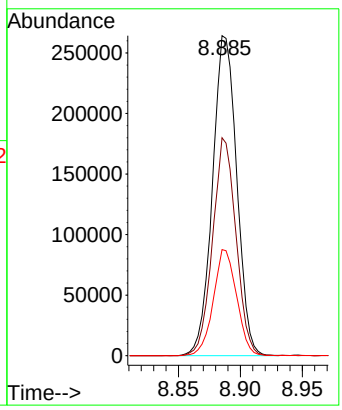


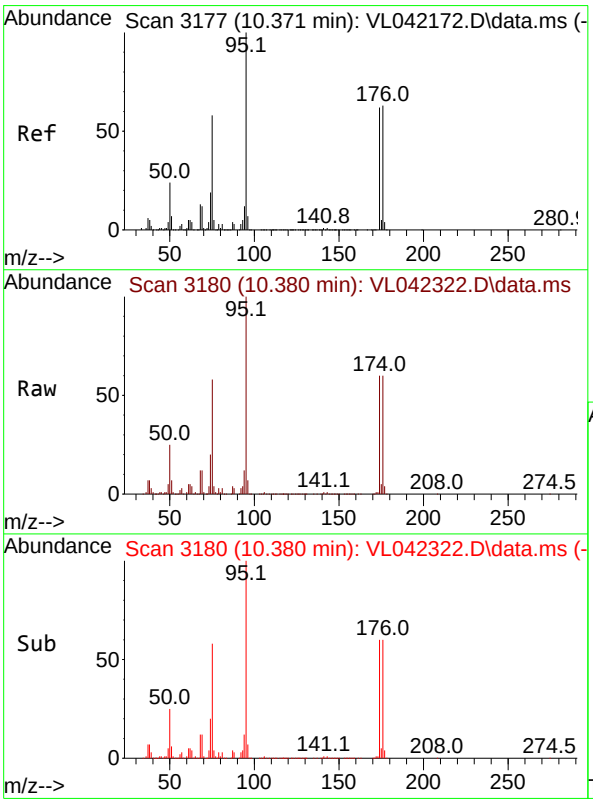

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042322.D
Acq: 11 Apr 2025 16:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025DL

Tgt Ion:117 Resp: 360512

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 65.6 | 55.8 | 83.6 |
| 119 | 31.9 | 25.5 | 38.3 |

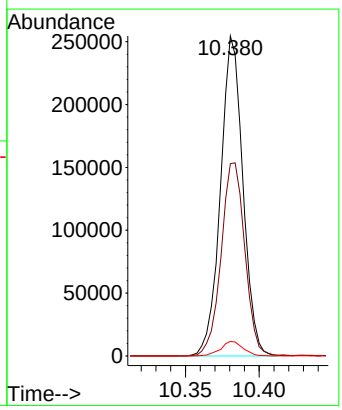



#68
1-Bromo-4-Fluorobenzene
Concen: 9.070 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.010 min
Lab File: VL042322.D
Acq: 11 Apr 2025 16:08

Tgt Ion: 95 Resp: 268511

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 64.6 | 50.6 | 76.0 |
| 175 | 4.7 | 3.8 | 5.6 |



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | AA-1-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-04 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042292.D | 1 | | 04/09/25 14:36 | VL040925 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.40 | 1.98 | J | 1.04 | 2.47 | ug/m3 |
| 64-17-5 | Ethanol | 12.8 | 24.1 | Q | 0.60 | 0.94 | ug/m3 |
| 74-87-3 | Chloromethane | 0.55 | 1.14 | | 0.21 | 1.03 | ug/m3 |
| 75-01-4 | Vinyl Chloride | 0.010 | 0.030 | U | 0.030 | 0.080 | ug/m3 |
| 74-83-9 | Bromomethane | 0.14 | 0.54 | U | 0.54 | 1.94 | ug/m3 |
| 75-00-3 | Chloroethane | 0.17 | 0.45 | U | 0.45 | 1.32 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | 0.13 | 0.38 | U | 0.38 | 1.47 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | 0.21 | 1.18 | J | 0.90 | 2.81 | ug/m3 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.16 | 1.23 | U | 1.23 | 3.83 | ug/m3 |
| 76-14-2 | Dichlorotetrafluoroethane | 0.090 | 0.63 | U | 0.63 | 3.49 | ug/m3 |
| 593-60-2 | Bromoethene | 0.12 | 0.52 | U | 0.52 | 2.19 | ug/m3 |
| 75-65-0 | tert-Butyl alcohol | 0.19 | 0.58 | U | 0.58 | 1.52 | ug/m3 |
| 142-82-5 | Heptane | 0.11 | 0.45 | U | 0.45 | 2.05 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | 1.20 | 2.95 | | 0.17 | 1.23 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethene | 0.14 | 0.56 | U | 0.56 | 1.98 | ug/m3 |
| 67-64-1 | Acetone | 3.50 | 8.31 | | 0.57 | 1.19 | ug/m3 |
| 75-15-0 | Carbon Disulfide | 0.16 | 0.50 | U | 0.50 | 1.56 | ug/m3 |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.12 | 0.43 | U | 0.43 | 1.80 | ug/m3 |
| 75-09-2 | Methylene Chloride | 0.67 | 2.33 | | 0.66 | 1.74 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.19 | 0.75 | U | 0.75 | 1.98 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | 0.13 | 0.53 | U | 0.53 | 2.02 | ug/m3 |
| 110-82-7 | Cyclohexane | 0.22 | 0.76 | U | 0.76 | 1.72 | ug/m3 |
| 78-93-3 | 2-Butanone | 0.35 | 1.03 | J | 0.35 | 1.47 | ug/m3 |
| 56-23-5 | Carbon Tetrachloride | 0.090 | 0.57 | | 0.060 | 0.19 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.090 | 0.36 | U | 0.36 | 1.98 | ug/m3 |
| 67-66-3 | Chloroform | 0.080 | 0.39 | U | 0.39 | 2.44 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.010 | 0.050 | U | 0.050 | 0.16 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | 0.10 | 0.47 | U | 0.47 | 2.34 | ug/m3 |
| 71-43-2 | Benzene | 0.25 | 0.80 | J | 0.29 | 1.60 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | 0.090 | 0.36 | U | 0.36 | 2.02 | ug/m3 |
| 79-01-6 | Trichloroethene | 0.020 | 0.11 | U | 0.11 | 0.16 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | 0.11 | 0.51 | U | 0.51 | 2.31 | ug/m3 |
| 75-27-4 | Bromodichloromethane | 0.080 | 0.54 | U | 0.54 | 3.35 | ug/m3 |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.090 | 0.37 | U | 0.37 | 2.05 | ug/m3 |
| 108-88-3 | Toluene | 0.28 | 1.06 | J | 0.41 | 1.88 | ug/m3 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | AA-1-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-04 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042292.D | 1 | | 04/09/25 14:36 | VL040925 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.060 | 0.27 | U | 0.27 | 2.27 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.060 | 0.27 | U | 0.27 | 2.27 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.070 | 0.38 | U | 0.38 | 2.73 | ug/m3 |
| 124-48-1 | Dibromochloromethane | 0.070 | 0.60 | U | 0.60 | 4.26 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane | 0.070 | 0.54 | U | 0.54 | 0.77 | ug/m3 |
| 127-18-4 | Tetrachloroethene | 0.020 | 0.14 | U | 0.14 | 0.20 | ug/m3 |
| 108-90-7 | Chlorobenzene | 0.080 | 0.37 | U | 0.37 | 2.30 | ug/m3 |
| 100-41-4 | Ethyl Benzene | 0.12 | 0.52 | U | 0.52 | 2.17 | ug/m3 |
| 179601-23-1 | m/p-Xylene | 0.21 | 0.91 | U | 0.91 | 4.34 | ug/m3 |
| 95-47-6 | o-Xylene | 0.12 | 0.52 | U | 0.52 | 2.17 | ug/m3 |
| 100-42-5 | Styrene | 0.11 | 0.47 | U | 0.47 | 2.13 | ug/m3 |
| 75-25-2 | Bromoform | 0.060 | 0.62 | U | 0.62 | 5.17 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.010 | 0.070 | U | 0.070 | 0.21 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | 0.11 | 0.57 | U | 0.57 | 2.59 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.11 | 0.54 | U | 0.54 | 2.46 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.080 | 0.39 | U | 0.39 | 2.46 | ug/m3 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.080 | 0.48 | U | 0.48 | 3.01 | ug/m3 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.050 | 0.30 | U | 0.30 | 3.01 | ug/m3 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.080 | 0.48 | U | 0.48 | 3.01 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.090 | 0.67 | U | 0.67 | 3.71 | ug/m3 |
| 87-68-3 | Hexachloro-1,3-Butadiene | 0.090 | 0.96 | U | 0.96 | 5.33 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | 0.13 | 0.29 | U | 0.29 | 1.11 | ug/m3 |
| 91-20-3 | Naphthalene | 0.080 | 0.42 | U | 0.42 | 0.52 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | 0.12 | 0.59 | U | 0.59 | 2.46 | ug/m3 |
| 110-54-3 | Hexane | 1.10 | 3.88 | | 0.39 | 1.76 | ug/m3 |
| 107-05-1 | Allyl Chloride | 0.15 | 0.47 | U | 0.47 | 1.57 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | 0.21 | 0.76 | U | 0.76 | 1.80 | ug/m3 |
| 80-62-6 | Methyl Methacrylate | 0.090 | 0.37 | U | 0.37 | 2.05 | ug/m3 |
| **SURROGATES** | | | | | | | |
| 460-00-4 | 1-Bromo-4-Fluorobenzene | 9.20 | | | 70 (65) - 130 (135) | 92% | SPK: 10 |
| **INTERNAL STANDARDS** | | | | | | | |
| 74-97-5 | Bromochloromethane | 158000 | | 2.784 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 383000 | | 3.956 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 331000 | | 8.879 | | | |
| **TENTITIVE IDENTIFIED COMPOUNDS** | | | | | | | |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | AA-1-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-04 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042292.D | 1 | | 04/09/25 14:36 | VL040925 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 75-45-6 | Chlorodifluoromethane | 0.29 | | J | | 1.47 | ppbv |
| 115-07-1 | Propene | 0.75 | | J | | 1.49 | ppbv |
| 000106-97-8 | Butane | 1.00 | | J | | 1.62 | ppbv |

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042292.D
Acq On : 09 Apr 2025 14:36
Operator : SY/MD
Sample : Q1665-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 01:44:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-1-3242025

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 2.784 | 49 | 157856 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.956 | 114 | 383411 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.879 | 117 | 331322 | 10.000 | ppbv | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.374 | 95 | 250999 | 9.225 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 92.200% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.496 | 85 | 9272 | 0.398 | ppbv | | 99 |
| 3) Chlorodifluoromethane | 1.473 | 51 | 6821m | 0.286 | ppbv | | |
| 4) Chloromethane | 1.531 | 50 | 5277 | 0.554 | ppbv | | 92 |
| 9) Propene | 1.486 | 41 | 8231 | 0.754 | ppbv | | 93 |
| 11) Trichlorofluoromethane | 1.874 | 101 | 4773 | 0.210 | ppbv | | 100 |
| 13) Ethanol | 1.719 | 45 | 13232 | 12.826 | ppbv | | 88 |
| 15) Acetone | 1.836 | 43 | 76719 | 3.475 | ppbv | | 91 |
| 19) Isopropyl Alcohol | 1.884 | 45 | 14854 | 1.192 | ppbv | # | 1 |
| 20) Methylene Chloride | 2.059 | 84 | 5511 | 0.670 | ppbv | | 96 |
| 26) Hexane | 2.823 | 57 | 23758 | 1.073 | ppbv | # | 35 |
| 34) 2-Butanone | 2.561 | 43 | 9840 | 0.354 | ppbv | | 99 |
| 35) Carbon Tetrachloride | 3.758 | 117 | 2688 | 0.090 | ppbv | | 89 |
| 36) Benzene | 3.651 | 78 | 9637 | 0.254 | ppbv | # | 85 |
| 53) Toluene | 6.937 | 91 | 12644m | 0.281 | ppbv | | |
| 59) m/p-Xylene | 9.529 | 91 | 5742m | 0.122 | ppbv | | |

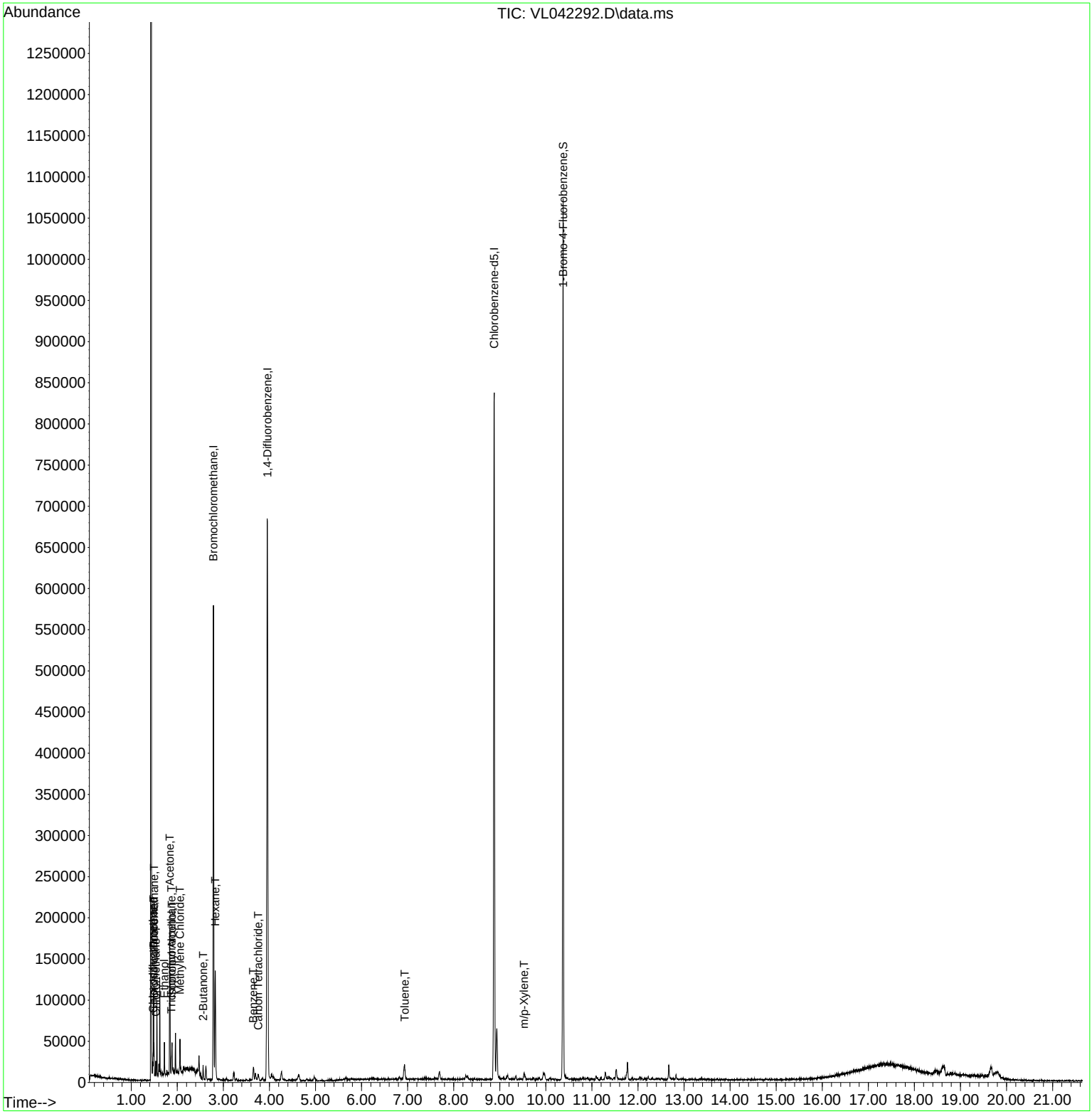
(#) = qualifier out of range (m) = manual integration (+) = signals summed

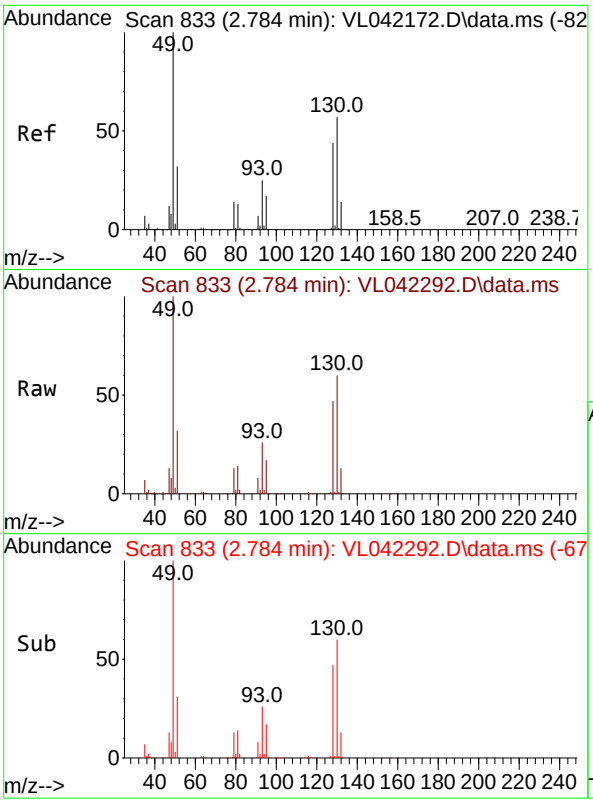
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042292.D
Acq On : 09 Apr 2025 14:36
Operator : SY/MD
Sample : Q1665-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 01:44:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-1-3242025

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

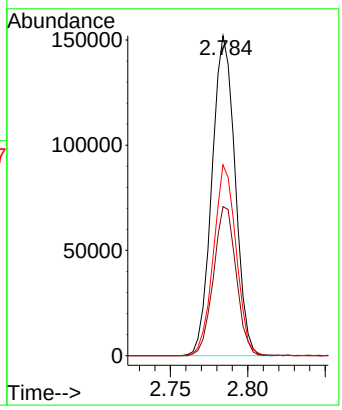





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

Tgt Ion: 49 Resp: 15785

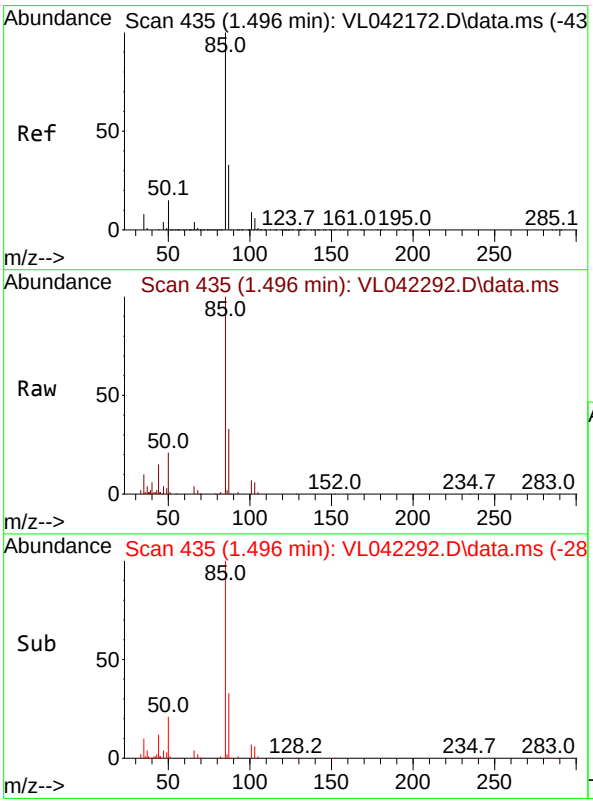
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 45.7 | 22.9 | 68.5 |
| 130 | 58.3 | 28.8 | 86.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-1-3242025

**Manual Integrations**
**APPROVED**

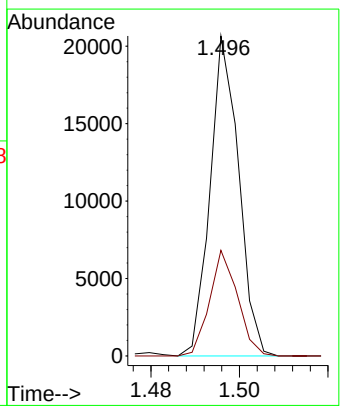
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

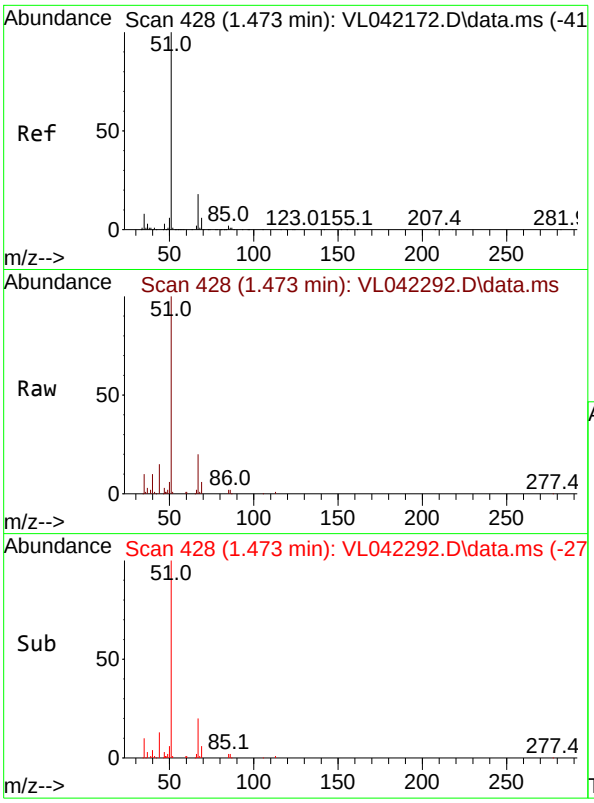



#2
Dichlorodifluoromethane
Concen: 0.398 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.000 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

Tgt Ion: 85 Resp: 9272

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.0 | 26.1 | 39.1 |

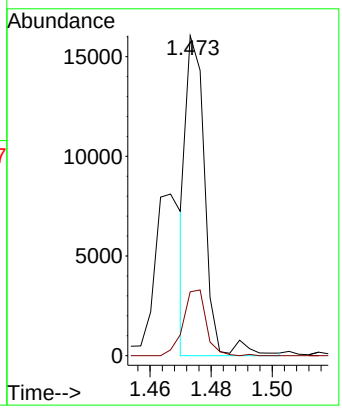





#3
Chlorodifluoromethane
Concen: 0.286 ppbv m
RT: 1.473 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

Tgt Ion: 51 Resp: 682

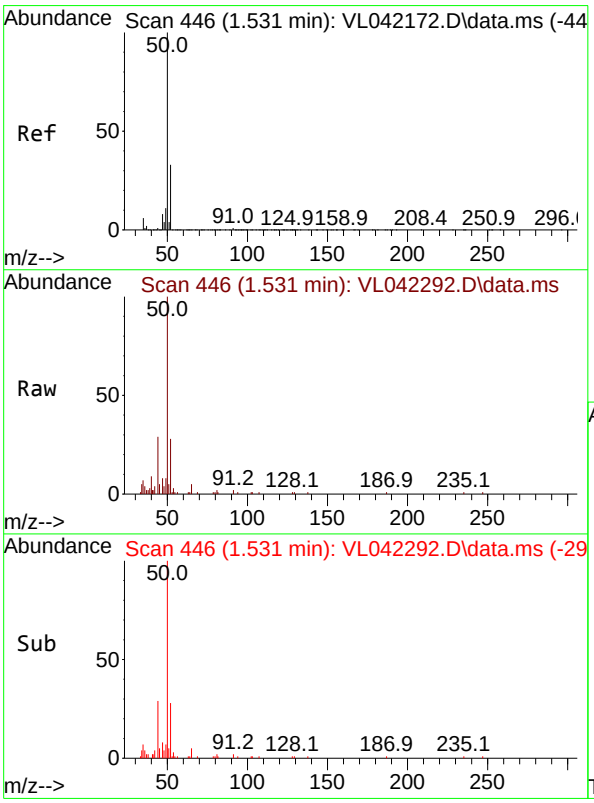
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 25.2 | 15.0 | 22.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-1-3242025

**Manual Integrations**
**APPROVED**

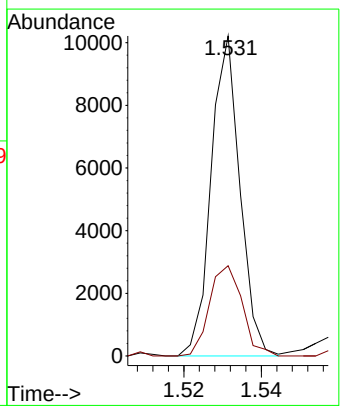
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

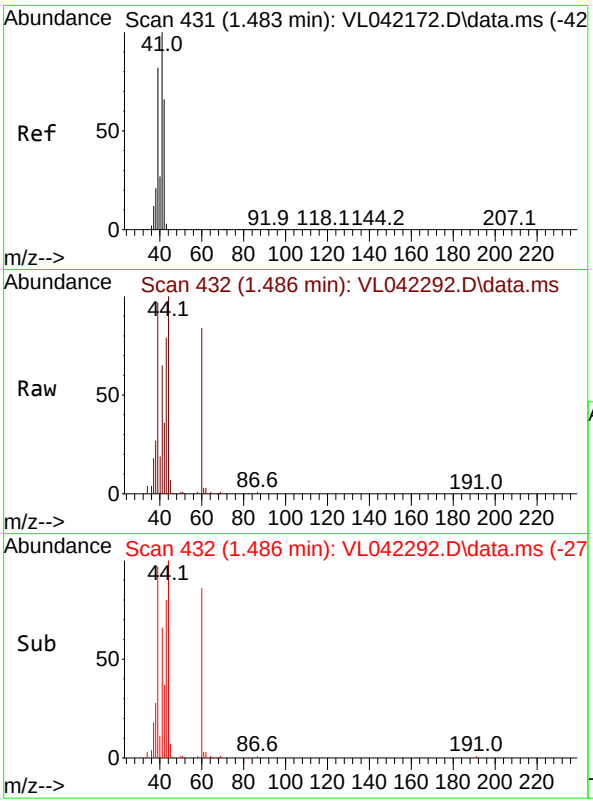



#4
Chloromethane
Concen: 0.554 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

Tgt Ion: 50 Resp: 5277

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 28.2 | 26.1 | 39.1 |

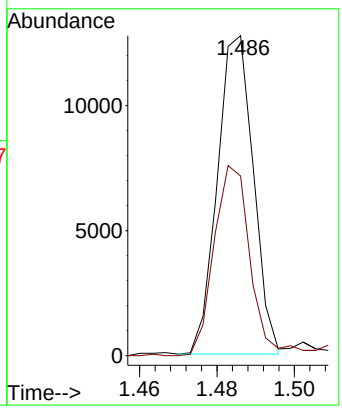





#9
Propene
Concen: 0.754 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

Tgt Ion: 41 Resp: 823

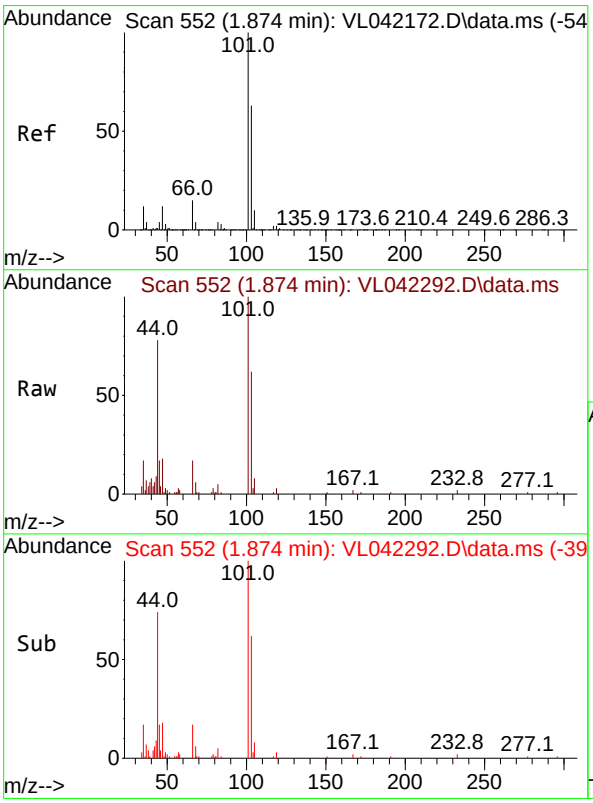
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 63.3 | 55.4 | 83.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-1-3242025

**Manual Integrations**
**APPROVED**

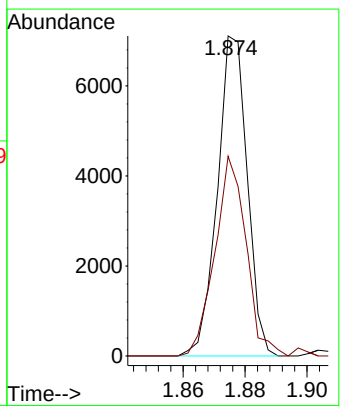
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

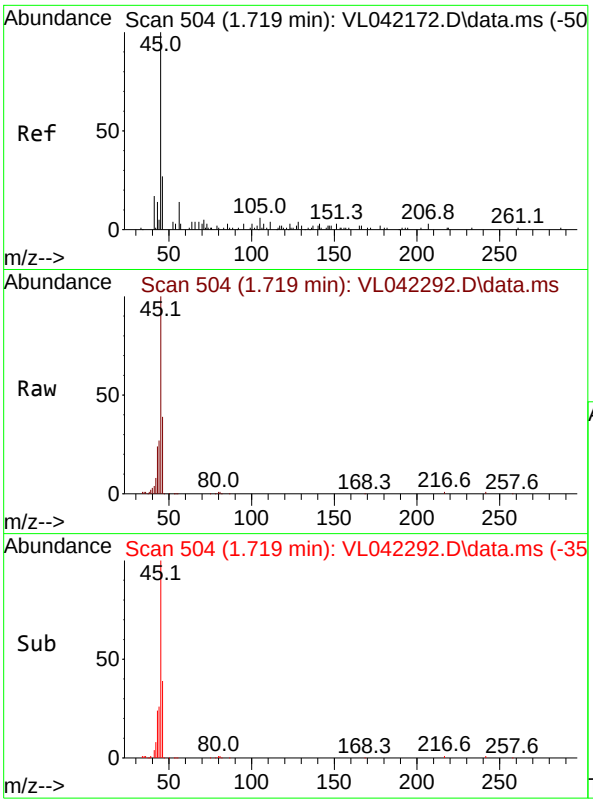



#11
Trichlorofluoromethane
Concen: 0.210 ppbv
RT: 1.874 min Scan# 552
Delta R.T. 0.000 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

Tgt Ion:101 Resp: 4773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 62.4 | 50.2 | 75.2 |

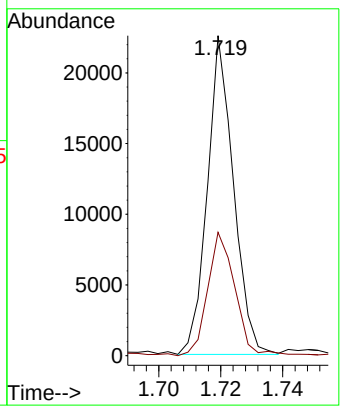





#13
Ethanol
Concen: 12.826 ppbv
RT: 1.719 min Scan# 5(
Delta R.T. 0.000 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

Tgt Ion: 45 Resp: 1323

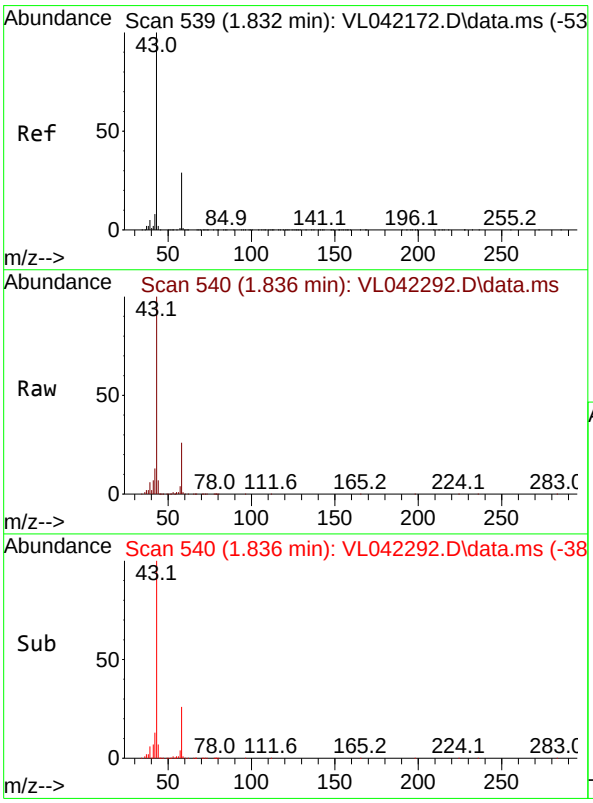
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 42.5 | 20.2 | 80.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-1-3242025

**Manual Integrations**
**APPROVED**

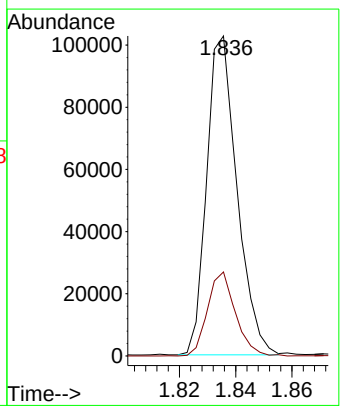
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

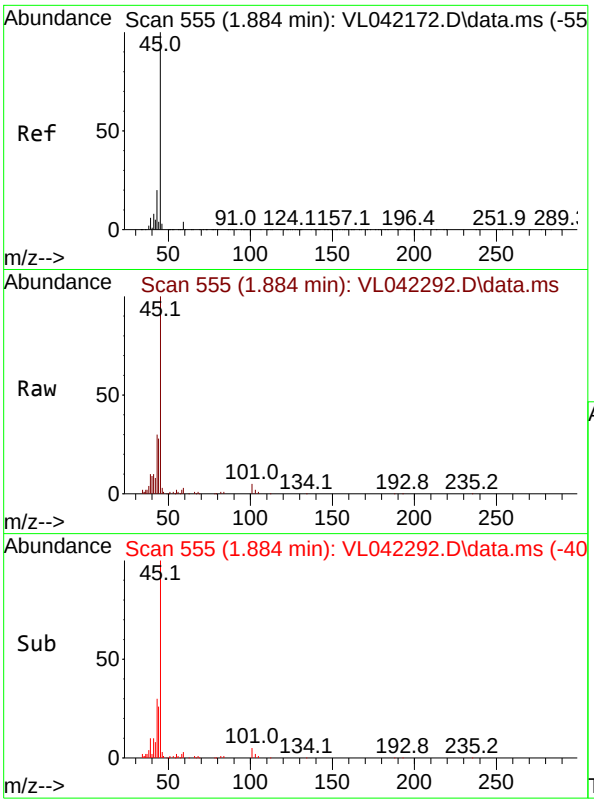



#15
Acetone
Concen: 3.475 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

Tgt Ion: 43 Resp: 76719

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 24.3 | 23.2 | 34.8 |

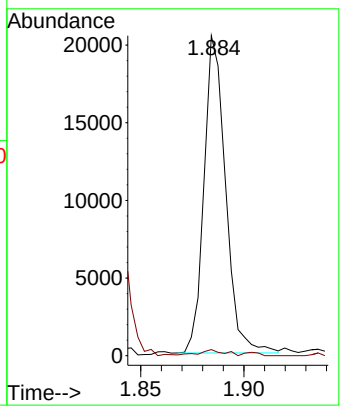





#19
Isopropyl Alcohol
Concen: 1.192 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

Tgt Ion: 45 Resp: 1485

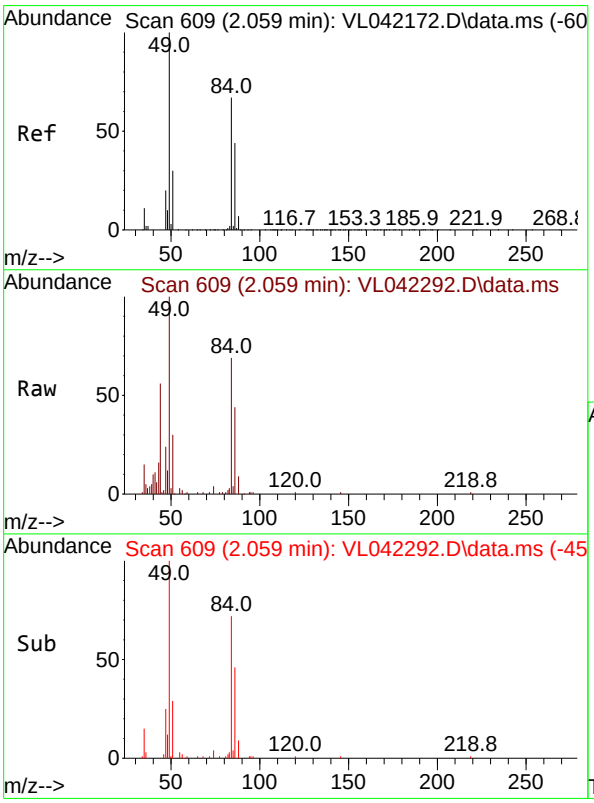
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 125.4 | 36.9 | 55.3 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-1-3242025

**Manual Integrations**
**APPROVED**

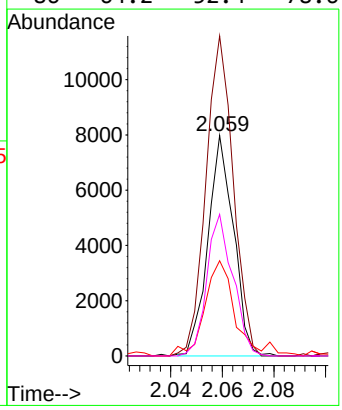
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

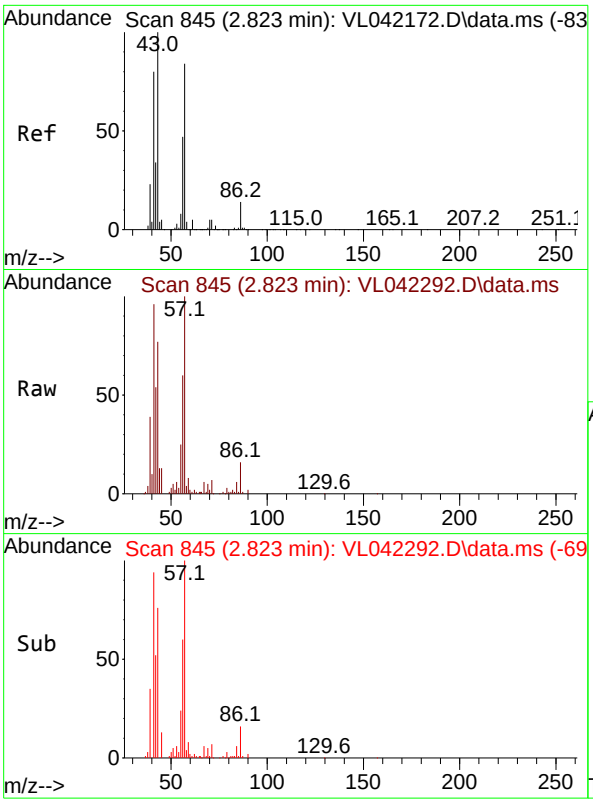



#20
Methylene Chloride
Concen: 0.670 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.000 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

Tgt Ion: 84 Resp: 5511

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 145.1 | 120.2 | 180.4 |
| 51 | 42.4 | 37.4 | 56.0 |
| 86 | 64.2 | 52.4 | 78.6 |

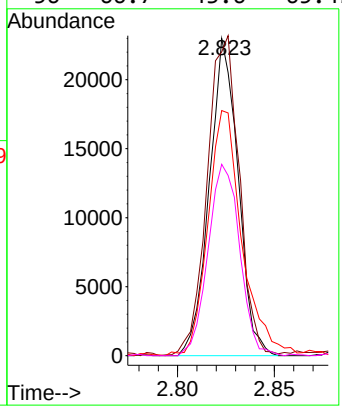





#26
Hexane
Concen: 1.073 ppbv
RT: 2.823 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

Tgt Ion: 57 Resp: 2375

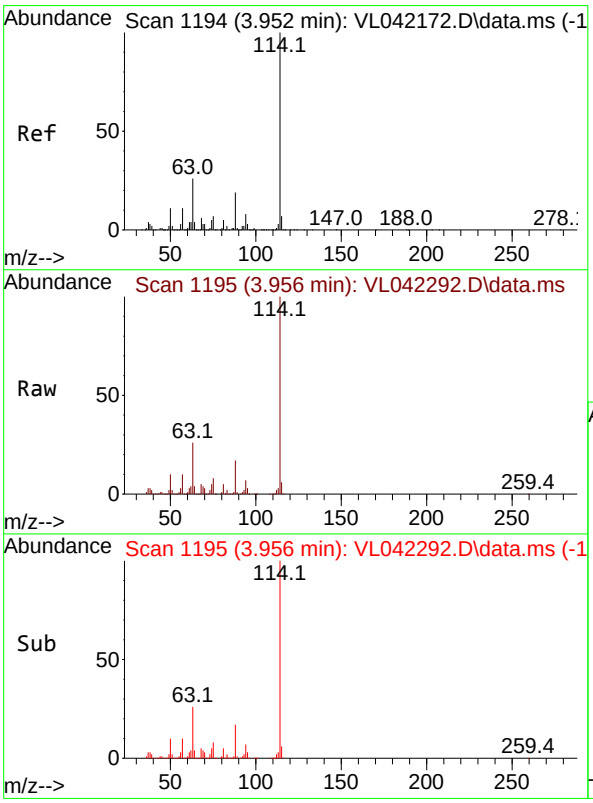
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 112.9 | 76.6 | 114.8 |
| 43 | 94.2 | 207.8 | 311.8# |
| 56 | 66.7 | 43.6 | 65.4# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-1-3242025

**Manual Integrations**
**APPROVED**

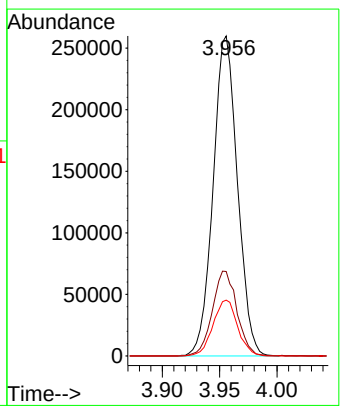
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

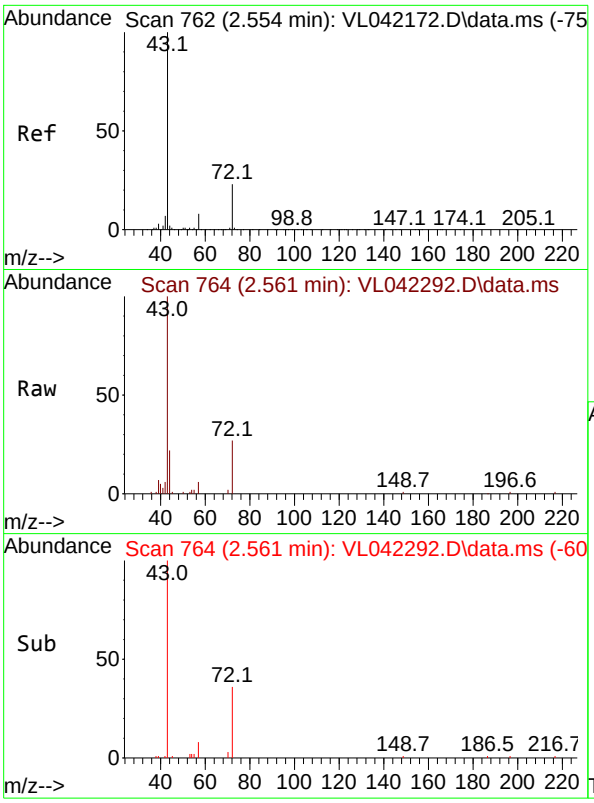



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 1195
Delta R.T. 0.003 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

Tgt Ion:114 Resp: 383411

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 26.7 | 20.7 | 31.1 |
| 88 | 17.7 | 15.0 | 22.4 |

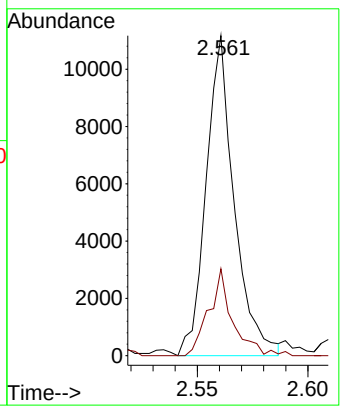





#34
2-Butanone
Concen: 0.354 ppbv
RT: 2.561 min Scan# 7
Delta R.T. 0.006 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

Tgt Ion: 43 Resp: 984

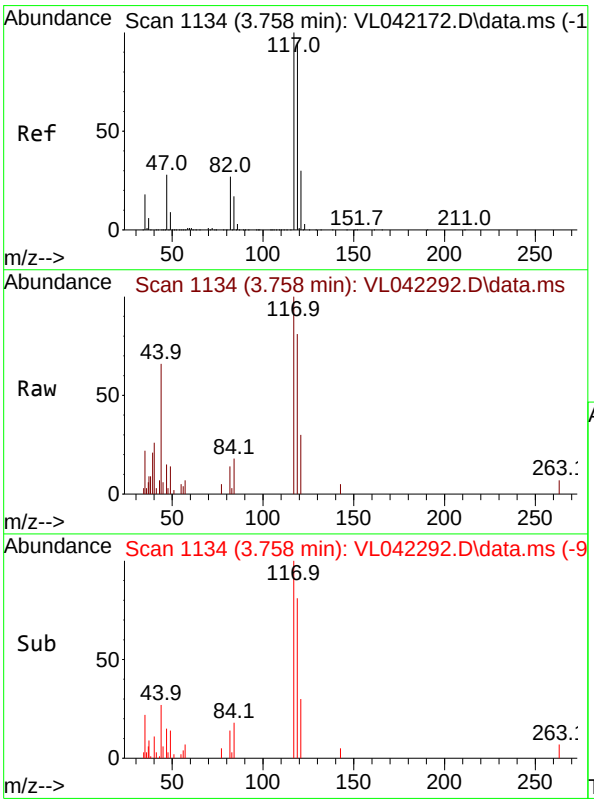
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 23.2 | 18.2 | 27.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-1-3242025

**Manual Integrations**
**APPROVED**

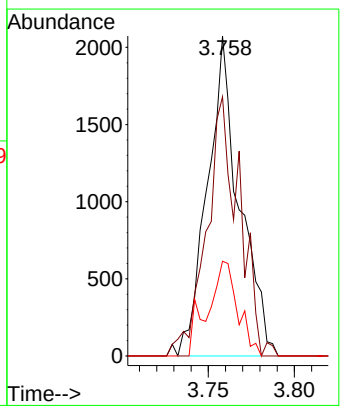
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

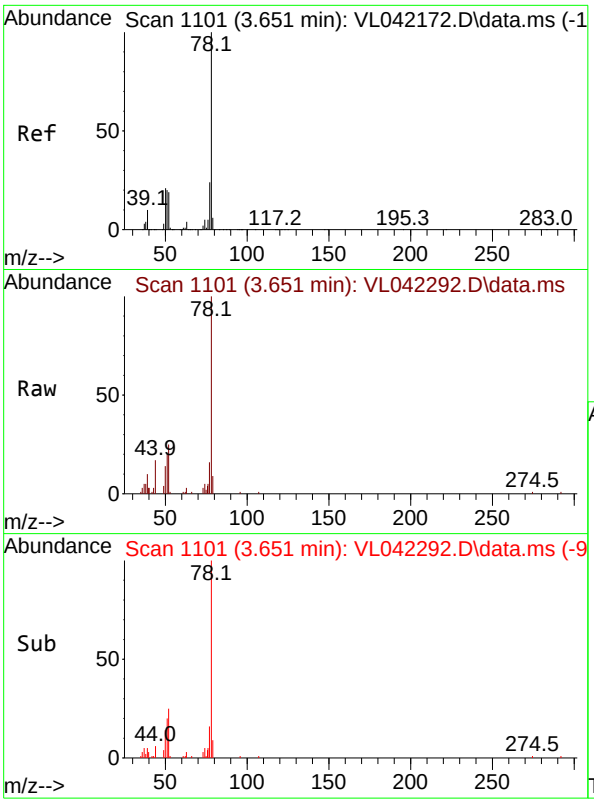



#35
Carbon Tetrachloride
Concen: 0.090 ppbv
RT: 3.758 min Scan# 1134
Delta R.T. 0.000 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

Tgt Ion:117 Resp: 2688

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 81.0 | 76.2 | 114.2 |
| 121 | 29.6 | 24.2 | 36.4 |

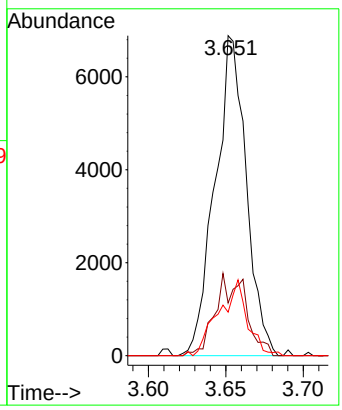





#36
Benzene
Concen: 0.254 ppbv
RT: 3.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

Tgt Ion: 78 Resp: 963

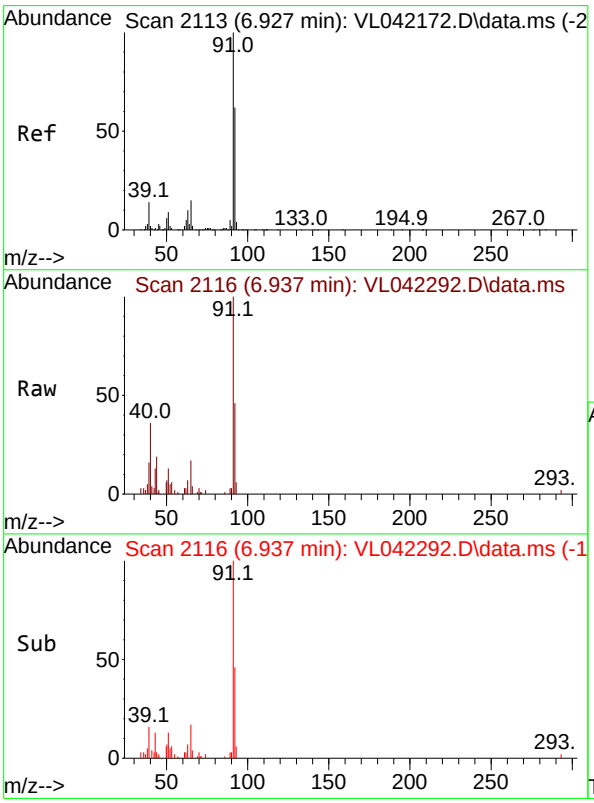
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 16.4 | 19.1 | 28.7# |
| 50 | 13.6 | 16.6 | 24.8# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-1-3242025

**Manual Integrations**
**APPROVED**

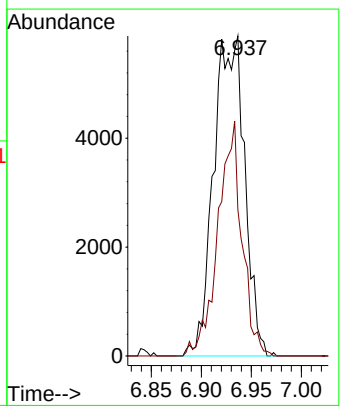
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

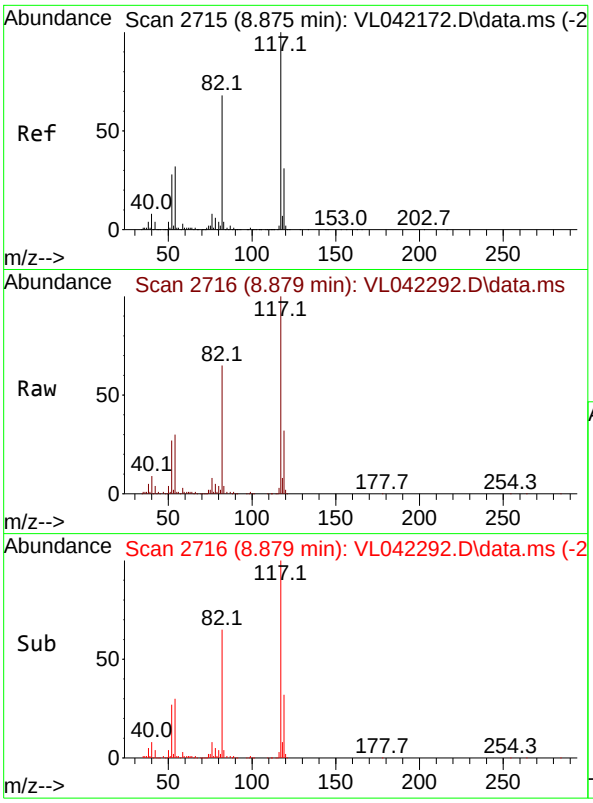



#53
Toluene
Concen: 0.281 ppbv m
RT: 6.937 min Scan# 2116
Delta R.T. 0.010 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

Tgt Ion: 91 Resp: 12644

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 56.7 | 48.4 | 72.6 |

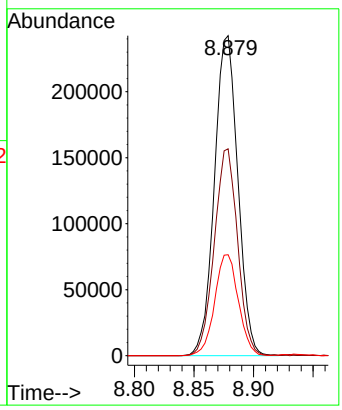





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

Tgt Ion:117 Resp: 33132

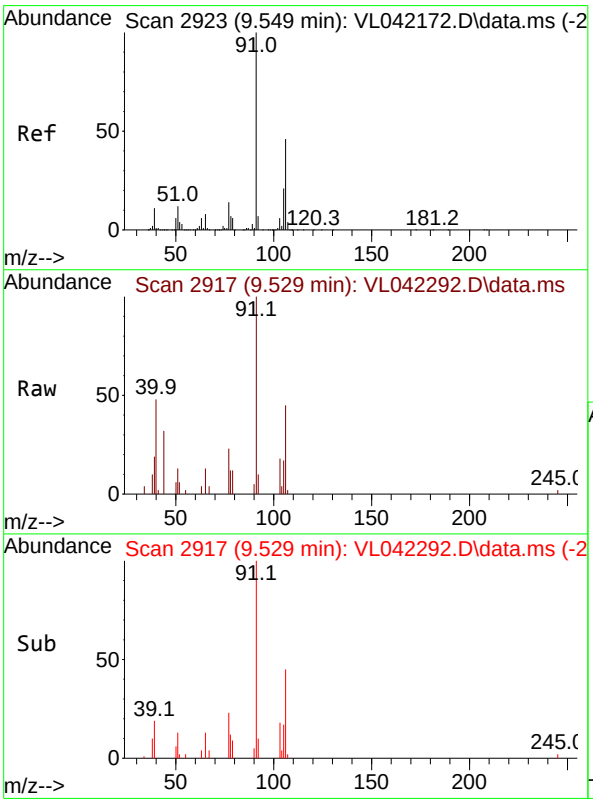
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 64.4 | 55.8 | 83.6 |
| 119 | 31.9 | 25.5 | 38.3 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-1-3242025

**Manual Integrations**
**APPROVED**

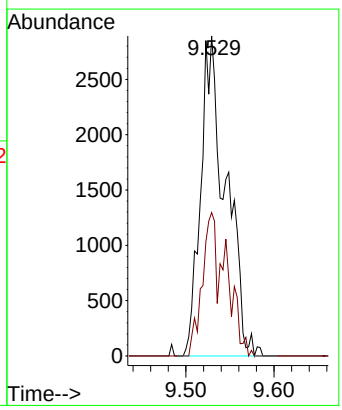
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

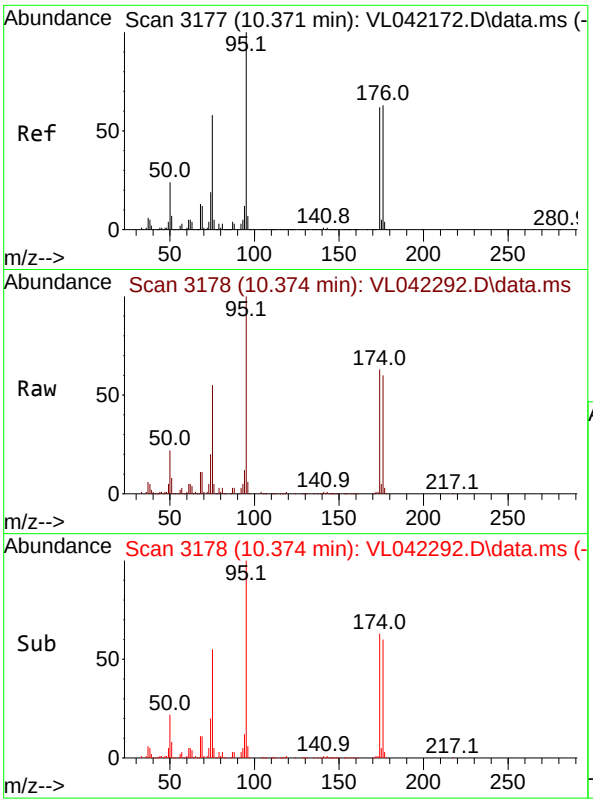



#59
m/p-Xylene
Concen: 0.122 ppbv m
RT: 9.529 min Scan# 2917
Delta R.T. -0.019 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

Tgt Ion: 91 Resp: 5742

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 0.0 | 36.4 | 54.6# |

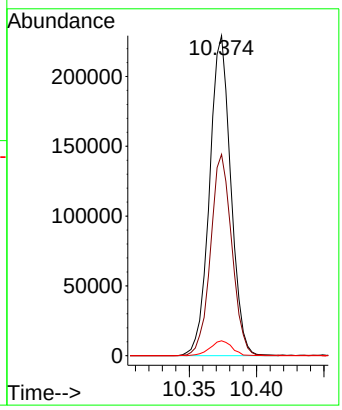





#68
1-Bromo-4-Fluorobenzene
Concen: 9.225 ppbv
RT: 10.374 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

Tgt Ion: 95 Resp: 25099

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 63.1 | 50.6 | 76.0 |
| 175 | 4.8 | 3.8 | 5.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-1-3242025

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042292.D
Acq On : 09 Apr 2025 14:36
Operator : SY/MD
Sample : Q1665-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-1-3242025

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

Signal : TIC: VL042292.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.428 | 409 | 414 | 420 | rBV | 4055154 | 4358881 | 100.00% | 48.851% |
| 2 | 1.486 | 427 | 432 | 434 | rBV2 | 89859 | 48474 | 1.11% | 0.543% |
| 3 | 1.557 | 449 | 454 | 458 | rVB | 91331 | 47137 | 1.08% | 0.528% |
| 4 | 1.619 | 470 | 473 | 477 | rVB | 118004 | 60050 | 1.38% | 0.673% |
| 5 | 1.836 | 535 | 540 | 547 | rBV2 | 174929 | 156752 | 3.60% | 1.757% |
| 6 | 2.784 | 825 | 833 | 840 | rBV | 576389 | 591579 | 13.57% | 6.630% |
| 7 | 2.823 | 840 | 845 | 860 | rVB2 | 132350 | 156487 | 3.59% | 1.754% |
| 8 | 3.952 | 1180 | 1194 | 1213 | rBV | 682675 | 1044834 | 23.97% | 11.710% |
| 9 | 8.879 | 2704 | 2716 | 2726 | rBV | 833986 | 1156517 | 26.53% | 12.961% |
| 10 | 8.937 | 2726 | 2734 | 2745 | rVB5 | 59177 | 101204 | 2.32% | 1.134% |
| 11 | 10.374 | 3161 | 3178 | 3190 | rBV | 1070379 | 1200804 | 27.55% | 13.458% |

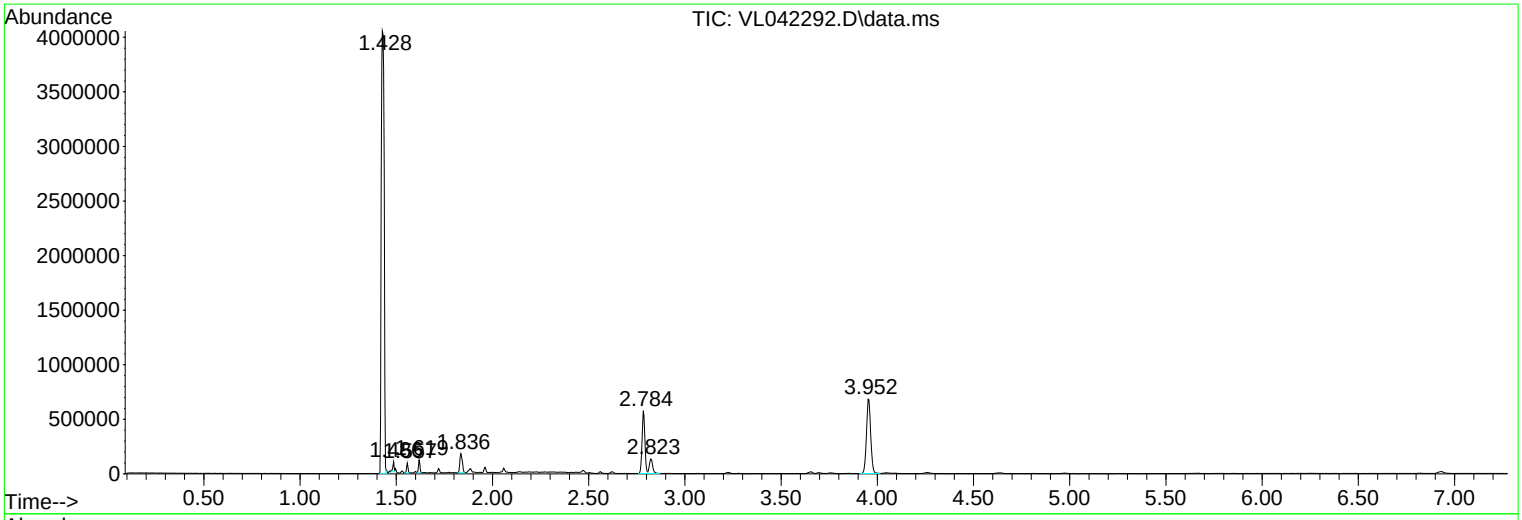
Sum of corrected areas: 8922719

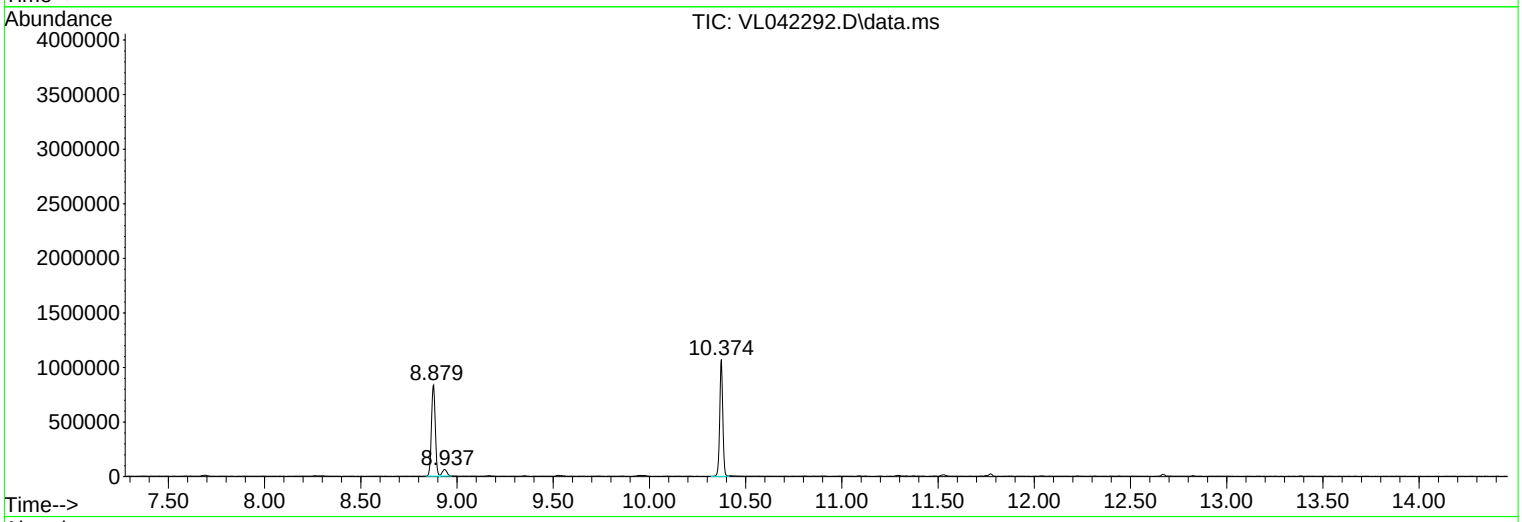
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042292.D
Acq On : 09 Apr 2025 14:36
Operator : SY/MD
Sample : Q1665-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

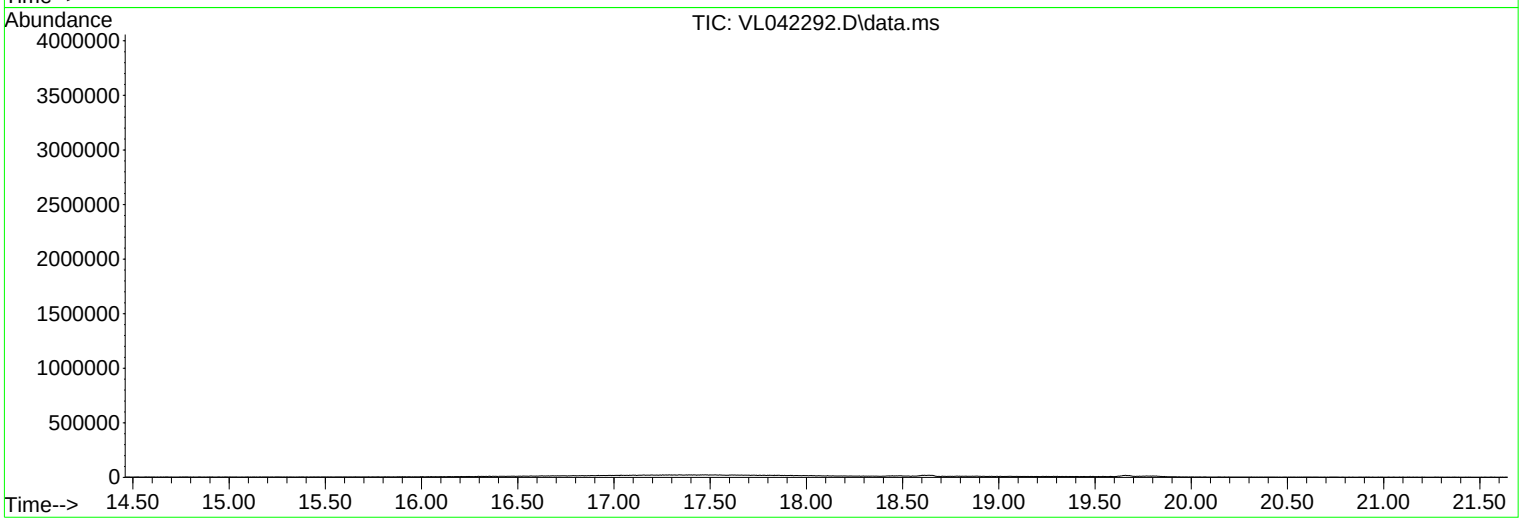
**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-1-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042292.D
Acq On : 09 Apr 2025 14:36
Operator : SY/MD
Sample : Q1665-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-1-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

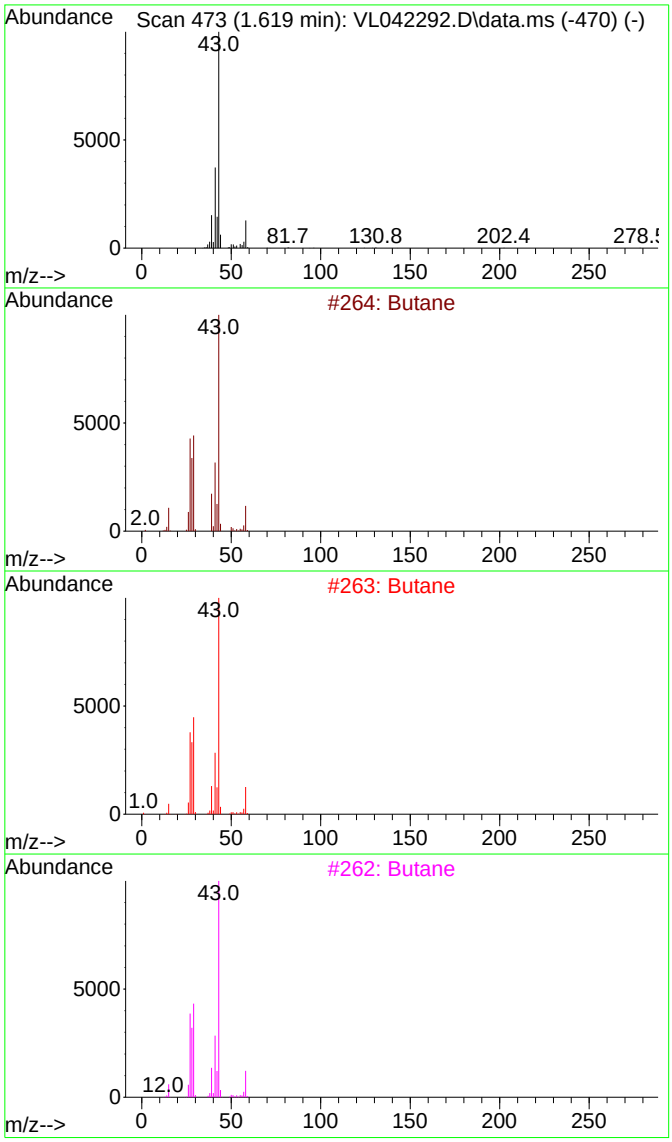
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

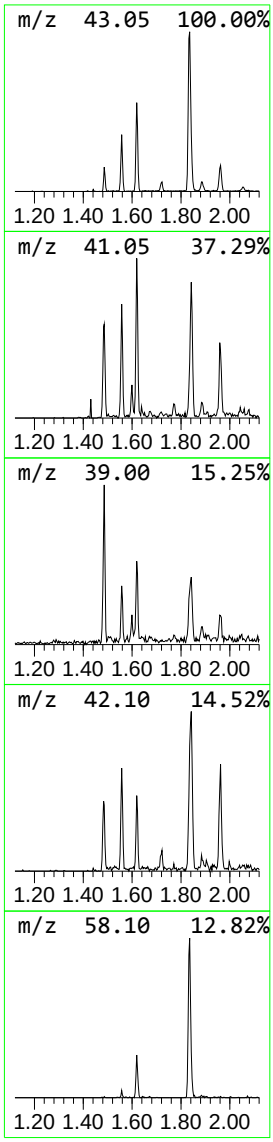
**********

Peak Number 1 Butane Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.619 | 1.02 ppbv | 60050 | Bromochloromethane | 2.784 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane | 58 | C4H10 | 000106-97-8 | 64 |
| 2 | Butane | 58 | C4H10 | 000106-97-8 | 64 |
| 3 | Butane | 58 | C4H10 | 000106-97-8 | 64 |
| 4 | Butane | 58 | C4H10 | 000106-97-8 | 64 |
| 5 | Formic acid, chloro-, (3,4,4-tri... | 194 | C7H11ClO4 | 107323-92-2 | 39 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042292.D
Acq On : 09 Apr 2025 14:36
Operator : SY/MD
Sample : Q1665-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-1-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Butane | 1.619 | 1.0 | ppbv | 60050 | 1 | 2.784 | 591579 | 10.0 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B2-3-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-05 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042419.D | 1 | | 04/28/25 10:59 | VL042825 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.46 | 2.27 | J | 1.04 | 2.47 | ug/m3 |
| 64-17-5 | Ethanol | 270 | 509 | EQ | 0.60 | 0.94 | ug/m3 |
| 74-87-3 | Chloromethane | 0.48 | 0.99 | J | 0.21 | 1.03 | ug/m3 |
| 75-01-4 | Vinyl Chloride | 0.010 | 0.030 | U | 0.030 | 0.080 | ug/m3 |
| 74-83-9 | Bromomethane | 0.14 | 0.54 | U | 0.54 | 1.94 | ug/m3 |
| 75-00-3 | Chloroethane | 0.17 | 0.45 | U | 0.45 | 1.32 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | 0.13 | 0.38 | U | 0.38 | 1.47 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | 0.21 | 1.18 | J | 0.90 | 2.81 | ug/m3 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.16 | 1.23 | U | 1.23 | 3.83 | ug/m3 |
| 76-14-2 | Dichlorotetrafluoroethane | 0.090 | 0.63 | U | 0.63 | 3.49 | ug/m3 |
| 593-60-2 | Bromoethene | 0.12 | 0.52 | U | 0.52 | 2.19 | ug/m3 |
| 75-65-0 | tert-Butyl alcohol | 3.10 | 9.40 | | 0.58 | 1.52 | ug/m3 |
| 142-82-5 | Heptane | 0.50 | 2.05 | | 0.45 | 2.05 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | 32.2 | 79.2 | E | 0.17 | 1.23 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethene | 0.14 | 0.56 | U | 0.56 | 1.98 | ug/m3 |
| 67-64-1 | Acetone | 14.7 | 34.9 | | 0.57 | 1.19 | ug/m3 |
| 75-15-0 | Carbon Disulfide | 0.16 | 0.50 | U | 0.50 | 1.56 | ug/m3 |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.12 | 0.43 | U | 0.43 | 1.80 | ug/m3 |
| 75-09-2 | Methylene Chloride | 1.20 | 4.17 | | 0.66 | 1.74 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.19 | 0.75 | U | 0.75 | 1.98 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | 0.13 | 0.53 | U | 0.53 | 2.02 | ug/m3 |
| 110-82-7 | Cyclohexane | 0.25 | 0.86 | J | 0.76 | 1.72 | ug/m3 |
| 78-93-3 | 2-Butanone | 0.87 | 2.57 | | 0.35 | 1.47 | ug/m3 |
| 56-23-5 | Carbon Tetrachloride | 0.080 | 0.50 | | 0.060 | 0.19 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.090 | 0.36 | U | 0.36 | 1.98 | ug/m3 |
| 67-66-3 | Chloroform | 0.080 | 0.39 | U | 0.39 | 2.44 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.010 | 0.050 | U | 0.050 | 0.16 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | 0.76 | 3.55 | | 0.47 | 2.34 | ug/m3 |
| 71-43-2 | Benzene | 0.49 | 1.57 | J | 0.29 | 1.60 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | 0.46 | 1.86 | J | 0.36 | 2.02 | ug/m3 |
| 79-01-6 | Trichloroethene | 0.020 | 0.11 | U | 0.11 | 0.16 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | 0.11 | 0.51 | U | 0.51 | 2.31 | ug/m3 |
| 75-27-4 | Bromodichloromethane | 0.080 | 0.54 | U | 0.54 | 3.35 | ug/m3 |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.36 | 1.48 | J | 0.37 | 2.05 | ug/m3 |
| 108-88-3 | Toluene | 4.60 | 17.3 | | 0.41 | 1.88 | ug/m3 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B2-3-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-05 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042419.D | 1 | | 04/28/25 10:59 | VL042825 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.060 | 0.27 | U | 0.27 | 2.27 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.060 | 0.27 | U | 0.27 | 2.27 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.070 | 0.38 | U | 0.38 | 2.73 | ug/m3 |
| 124-48-1 | Dibromochloromethane | 0.070 | 0.60 | U | 0.60 | 4.26 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane | 0.070 | 0.54 | U | 0.54 | 0.77 | ug/m3 |
| 127-18-4 | Tetrachloroethene | 0.050 | 0.34 | | 0.14 | 0.20 | ug/m3 |
| 108-90-7 | Chlorobenzene | 0.080 | 0.37 | U | 0.37 | 2.30 | ug/m3 |
| 100-41-4 | Ethyl Benzene | 0.56 | 2.43 | | 0.52 | 2.17 | ug/m3 |
| 179601-23-1 | m/p-Xylene | 1.40 | 6.08 | | 0.91 | 4.34 | ug/m3 |
| 95-47-6 | o-Xylene | 0.58 | 2.52 | | 0.52 | 2.17 | ug/m3 |
| 100-42-5 | Styrene | 0.46 | 1.96 | J | 0.47 | 2.13 | ug/m3 |
| 75-25-2 | Bromoform | 0.060 | 0.62 | U | 0.62 | 5.17 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.010 | 0.070 | U | 0.070 | 0.21 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | 0.11 | 0.57 | U | 0.57 | 2.59 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.18 | 0.88 | J | 0.54 | 2.46 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.48 | 2.36 | J | 0.39 | 2.46 | ug/m3 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.080 | 0.48 | U | 0.48 | 3.01 | ug/m3 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.050 | 0.30 | U | 0.30 | 3.01 | ug/m3 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.080 | 0.48 | U | 0.48 | 3.01 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.090 | 0.67 | U | 0.67 | 3.71 | ug/m3 |
| 87-68-3 | Hexachloro-1,3-Butadiene | 0.090 | 0.96 | U | 0.96 | 5.33 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | 0.13 | 0.29 | U | 0.29 | 1.11 | ug/m3 |
| 91-20-3 | Naphthalene | 0.11 | 0.58 | | 0.42 | 0.52 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | 0.14 | 0.69 | J | 0.59 | 2.46 | ug/m3 |
| 110-54-3 | Hexane | 2.30 | 8.11 | | 0.39 | 1.76 | ug/m3 |
| 107-05-1 | Allyl Chloride | 0.15 | 0.47 | U | 0.47 | 1.57 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | 0.21 | 0.76 | U | 0.76 | 1.80 | ug/m3 |
| 80-62-6 | Methyl Methacrylate | 0.090 | 0.37 | U | 0.37 | 2.05 | ug/m3 |
| **SURROGATES** | | | | | | | |
| 460-00-4 | 1-Bromo-4-Fluorobenzene | 10.5 | | | 70 (65) - 130 (135) | 105% | SPK: 10 |
| **INTERNAL STANDARDS** | | | | | | | |
| 74-97-5 | Bromochloromethane | 141000 | | 2.784 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 402000 | | 3.952 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 351000 | | 8.875 | | | |
| **TENTITIVE IDENTIFIED COMPOUNDS** | | | | | | | |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B2-3-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-05 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042419.D | 1 | | 04/28/25 10:59 | VL042825 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 75-45-6 | Chlorodifluoromethane | 0.16 | | J | | 1.47 | ppbv |
| 115-07-1 | Propene | 1.80 | | J | | 1.49 | ppbv |
| 000106-97-8 | Butane | 5.90 | | J | | 1.62 | ppbv |
| 000071-23-8 | 1-Propanol | 3.20 | | J | | 2.27 | ppbv |
| 000107-83-5 | Pentane, 2-methyl- | 1.90 | | J | | 2.47 | ppbv |
| 000110-05-4 | Di-tert-butyl peroxide | 3.50 | | J | | 6.84 | ppbv |
| 000066-25-1 | Hexanal | 1.90 | | J | | 7.68 | ppbv |
| 000080-56-8 | .alpha.-Pinene | 2.10 | | J | | 10.9 | ppbv |
| 103-65-1 | n-propylbenzene | 0.12 | | J | | 11.0 | ppbv |

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Quantitation Report (LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042419.D
Acq On : 28 Apr 2025 10:59
Operator : SY/MD
Sample : Q1665-05
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 29 01:33:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-3-3242025

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) Bromochloromethane | 2.784 | 49 | 141298 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.952 | 114 | 401917 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.875 | 117 | 351139 | 10.000 | ppbv | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.370 | 95 | 302429 | 10.481 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 104.800% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.495 | 85 | 11370 | 0.455 | ppbv | | 96 |
| 3) Chlorodifluoromethane | 1.473 | 51 | 3875m | 0.163 | ppbv | | |
| 4) Chloromethane | 1.531 | 50 | 4722 | 0.478 | ppbv | # | 79 |
| 9) Propene | 1.486 | 41 | 19126m | 1.767 | ppbv | | |
| 10) Heptane | 4.965 | 43 | 15130m | 0.497 | ppbv | | |
| 11) Trichlorofluoromethane | 1.874 | 101 | 5024 | 0.212 | ppbv | | 97 |
| 13) Ethanol | 1.719 | 45 | 460303 | 267.501 | ppbv | | 76 |
| 15) Acetone | 1.832 | 43 | 340098m | 14.703 | ppbv | | |
| 17) tert-Butyl alcohol | 2.039 | 59 | 88272 | 3.079 | ppbv | | 99 |
| 19) Isopropyl Alcohol | 1.884 | 45 | 414153 | 32.231 | ppbv | # | 66 |
| 20) Methylene Chloride | 2.059 | 84 | 10525 | 1.162 | ppbv | | 85 |
| 26) Hexane | 2.819 | 57 | 52451 | 2.273 | ppbv | # | 43 |
| 30) Cyclohexane | 3.849 | 84 | 4707m | 0.252 | ppbv | | |
| 34) 2-Butanone | 2.557 | 43 | 27638 | 0.869 | ppbv | | 99 |
| 35) Carbon Tetrachloride | 3.768 | 117 | 3056m | 0.084 | ppbv | | |
| 36) Benzene | 3.648 | 78 | 21233 | 0.490 | ppbv | | 98 |
| 37) 1,2-Dichloroethane | 3.211 | 62 | 11865 | 0.456 | ppbv | | 100 |
| 44) 2,2,4-Trimethylpentane | 4.629 | 57 | 56896m | 0.760 | ppbv | | |
| 50) 4-Methyl-2-Pentanone | 5.758 | 43 | 19082m | 0.361 | ppbv | | |
| 52) Tetrachloroethene | 8.211 | 164 | 894m | 0.053 | ppbv | | |
| 53) Toluene | 6.923 | 91 | 241564 | 4.644 | ppbv | | 99 |
| 58) Ethyl Benzene | 9.348 | 91 | 39060 | 0.561 | ppbv | | 95 |
| 59) m/p-Xylene | 9.526 | 91 | 78855 | 1.407 | ppbv | | 100 |
| 60) o-Xylene | 9.959 | 91 | 32637 | 0.578 | ppbv | | 97 |
| 61) Styrene | 9.869 | 104 | 12396 | 0.460 | ppbv | | 94 |
| 64) n-propylbenzene | 10.985 | 120 | 2557 | 0.123 | ppbv | | 89 |
| 72) 4-Ethyltoluene | 11.121 | 105 | 9307 | 0.135 | ppbv | # | 56 |
| 73) 1,3,5-Trimethylbenzene | 11.199 | 105 | 10799 | 0.177 | ppbv | | 90 |
| 74) 1,2,4-Trimethylbenzene | 11.532 | 105 | 33801 | 0.475 | ppbv | # | 61 |
| 79) Naphthalene | 13.507 | 128 | 9645 | 0.113 | ppbv | | 99 |

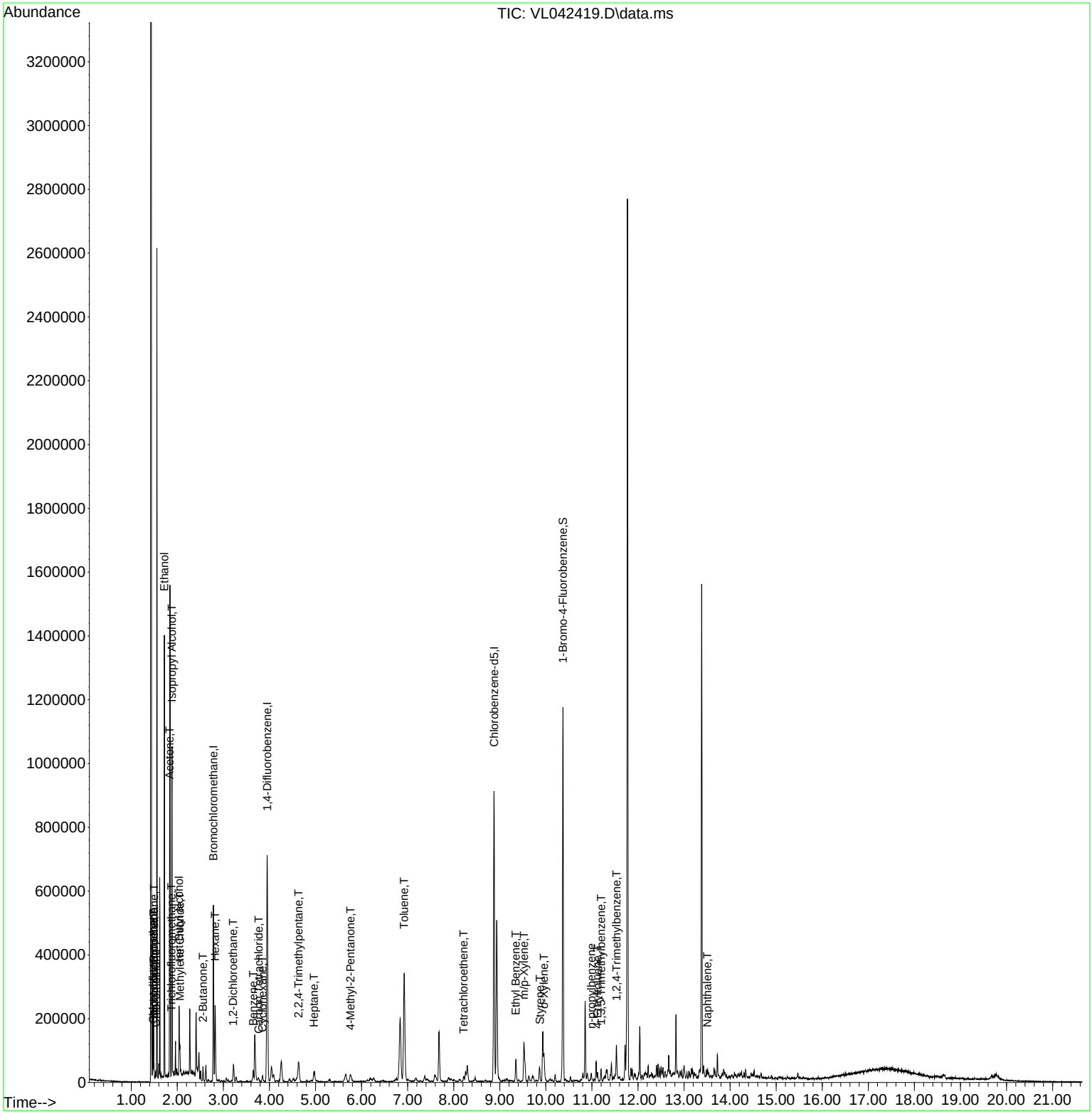
(#) = qualifier out of range (m) = manual integration (+) = signals summed

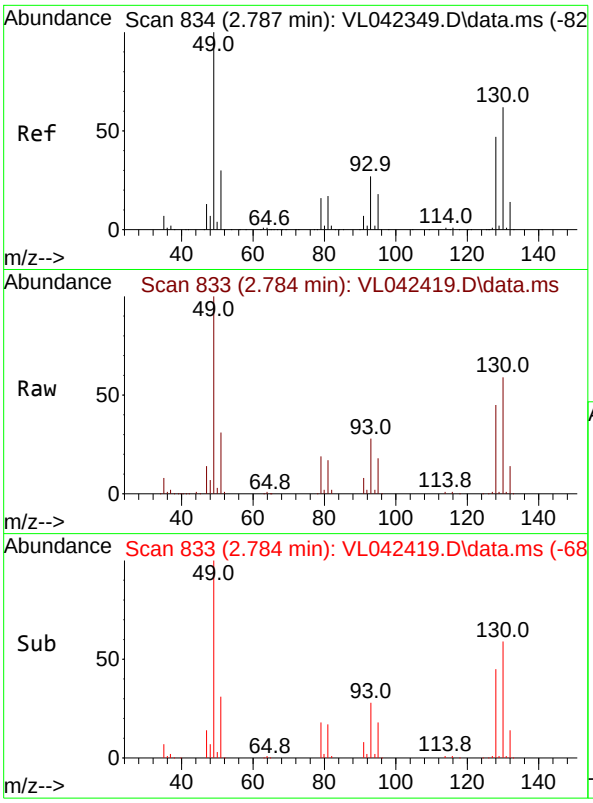
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042419.D
Acq On : 28 Apr 2025 10:59
Operator : SY/MD
Sample : Q1665-05
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 29 01:33:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-3-3242025

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025






#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

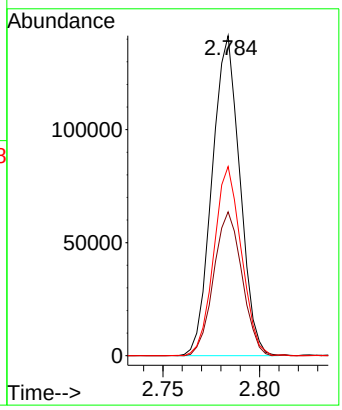
Tgt Ion: 49 Resp: 14129

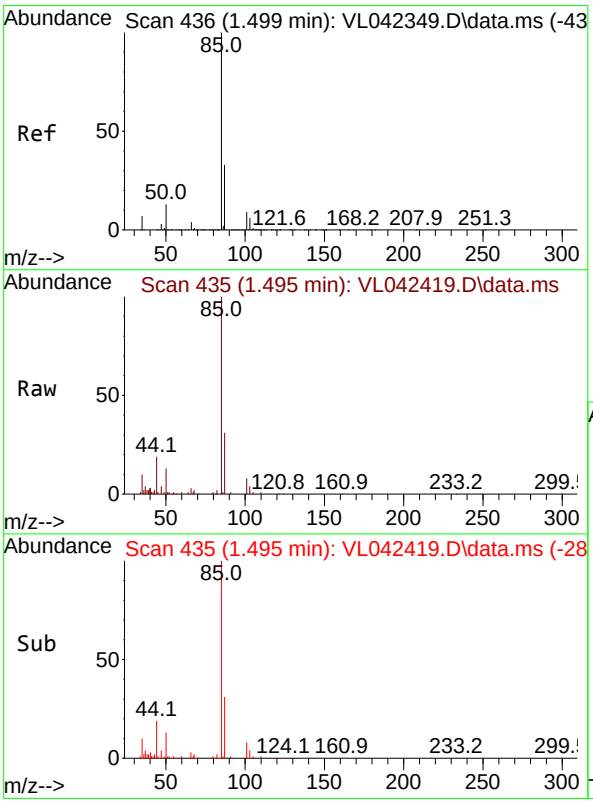
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 45.8 | 22.8 | 68.4 |
| 130 | 58.6 | 29.3 | 88.0 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-3-3242025

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

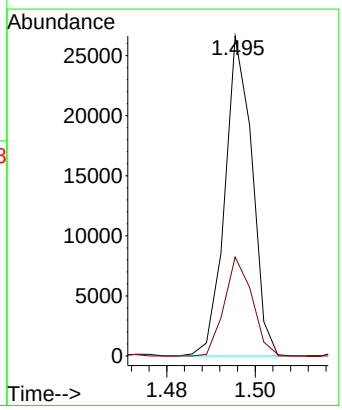


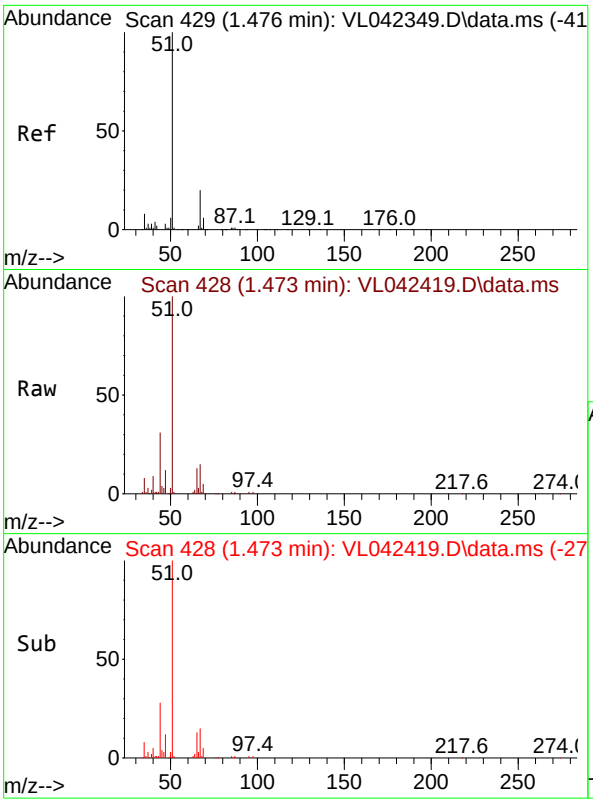




#2
Dichlorodifluoromethane
Concen: 0.455 ppbv
RT: 1.495 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 85 Resp: 11370

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 30.9 | 26.6 | 39.8 |

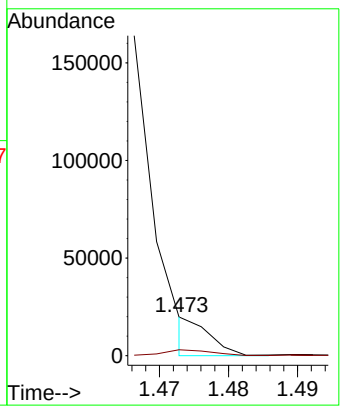





#3
Chlorodifluoromethane
Concen: 0.163 ppbv m
RT: 1.473 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 51 Resp: 387

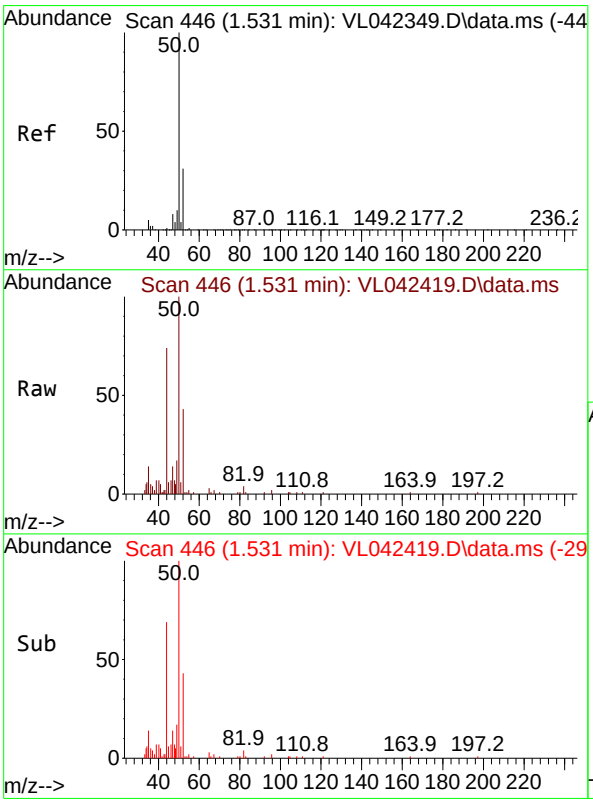
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 36.2 | 16.2 | 24.4# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-3-3242025

**Manual Integrations**
**APPROVED**

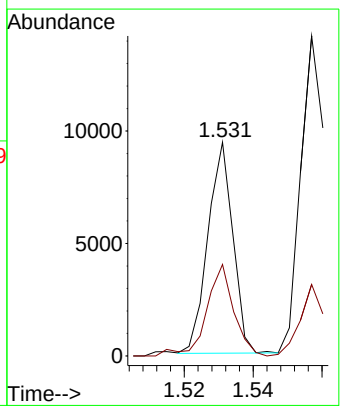
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

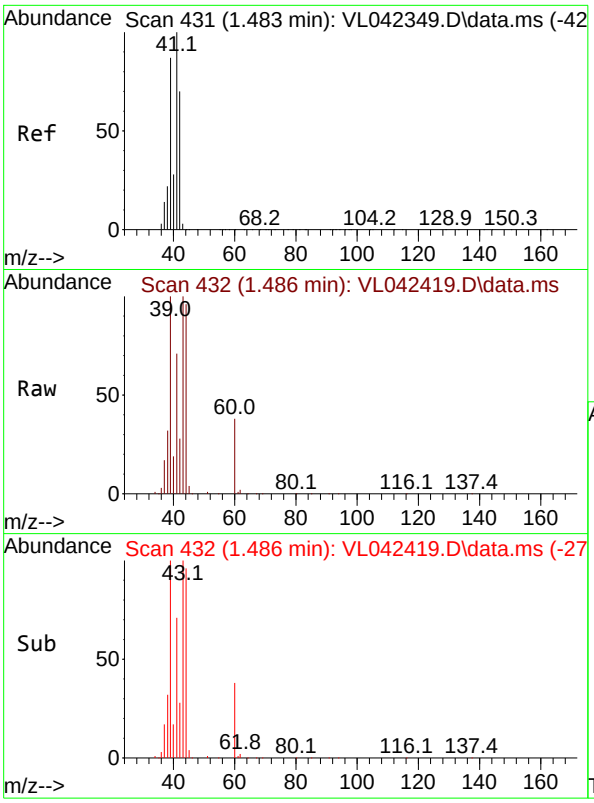



#4
Chloromethane
Concen: 0.478 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 50 Resp: 4722

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 42.6 | 24.7 | 37.1# |

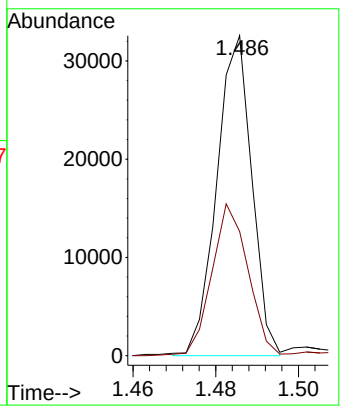





#9
Propene
Concen: 1.767 ppbv m
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 41 Resp: 1912

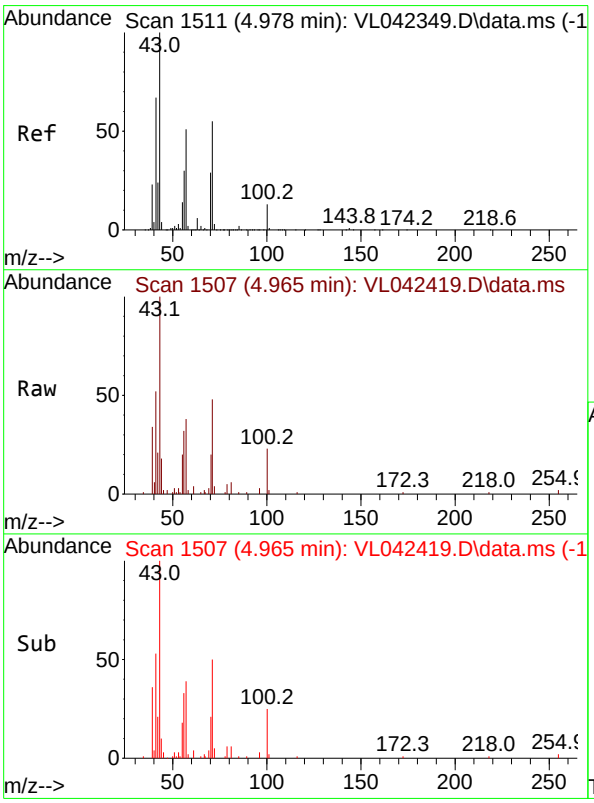
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 950.4 | 56.2 | 84.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-3-3242025

**Manual Integrations**
**APPROVED**

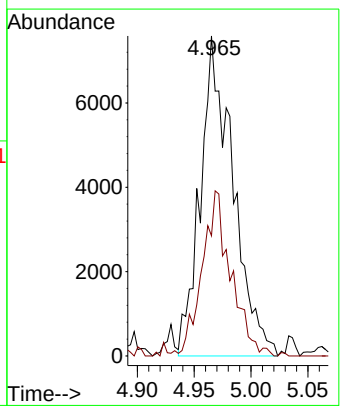
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

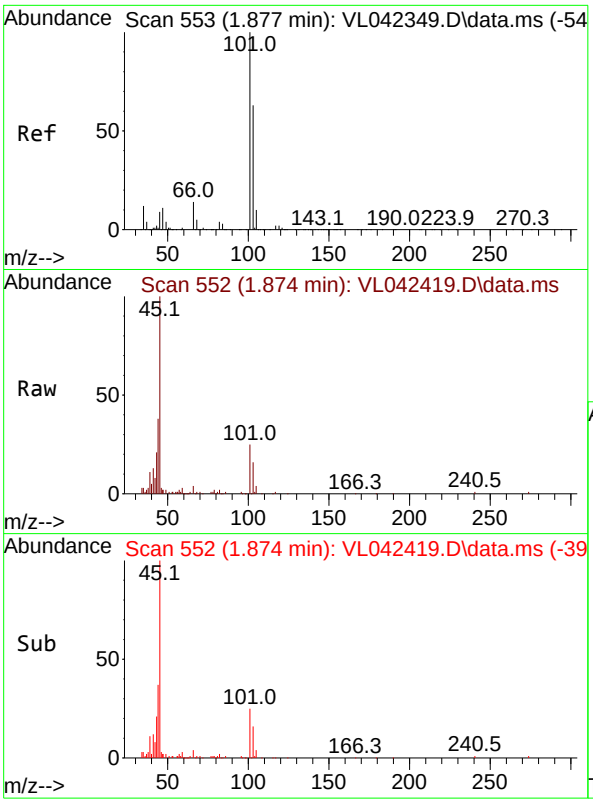



#10
Heptane
Concen: 0.497 ppbv m
RT: 4.965 min Scan# 1507
Delta R.T. -0.013 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 43 Resp: 15130

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 46.3 | 39.9 | 59.9 |






#11
Trichlorofluoromethane
Concen: 0.212 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

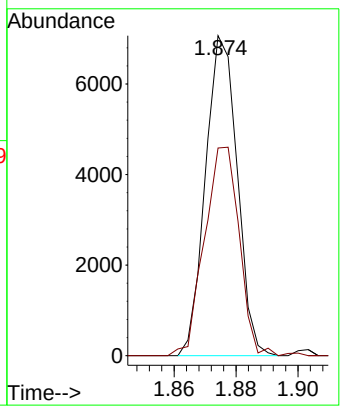
Tgt Ion:101 Resp: 502

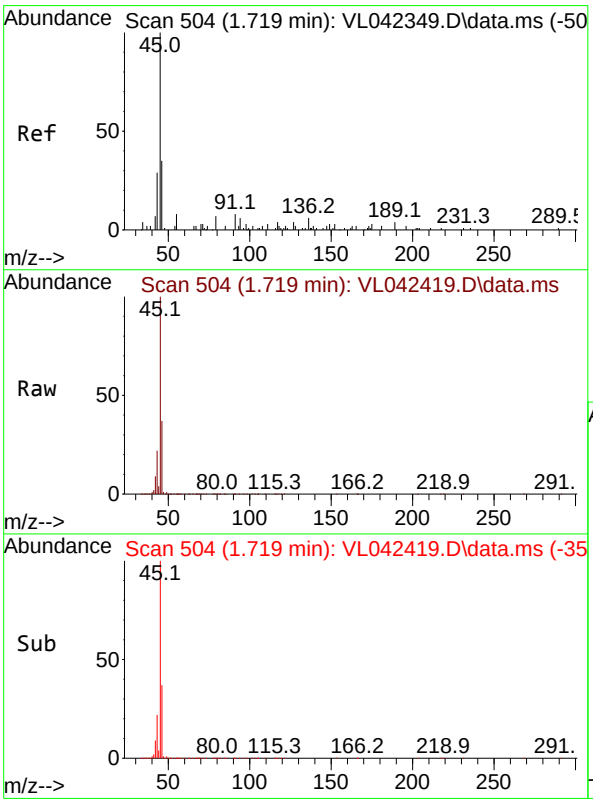
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.9 | 50.1 | 75.1 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-3-3242025

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

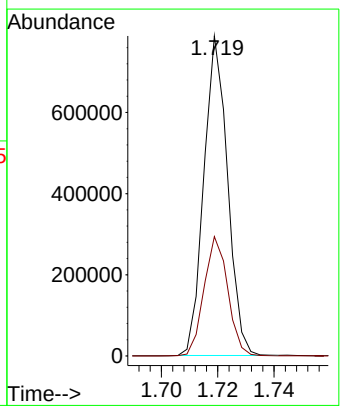


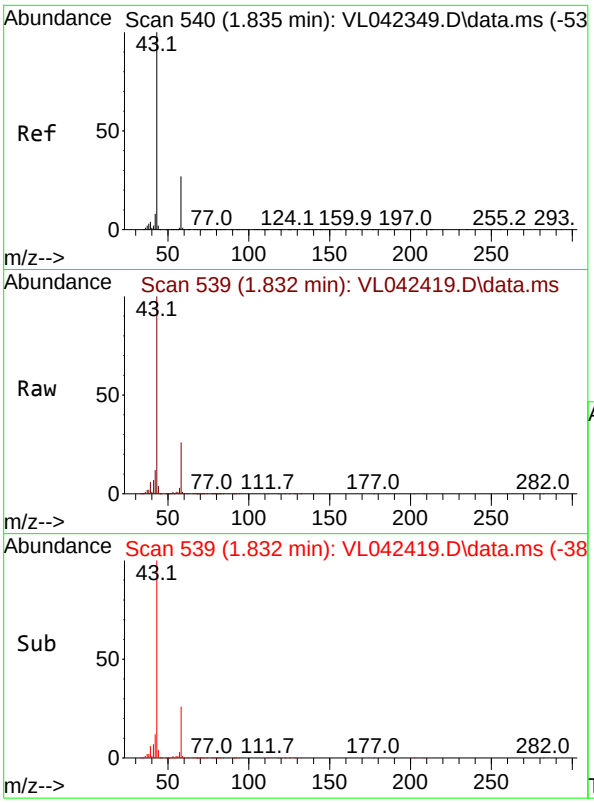




#13
Ethanol
Concen: 267.501 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 45 Resp: 460303

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 37.6 | 21.9 | 87.7 |

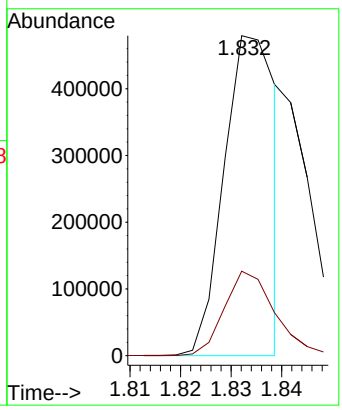





#15
Acetone
Concen: 14.703 ppbv m
RT: 1.832 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 43 Resp: 34009

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 26.2 | 22.4 | 33.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-3-3242025

**Manual Integrations**
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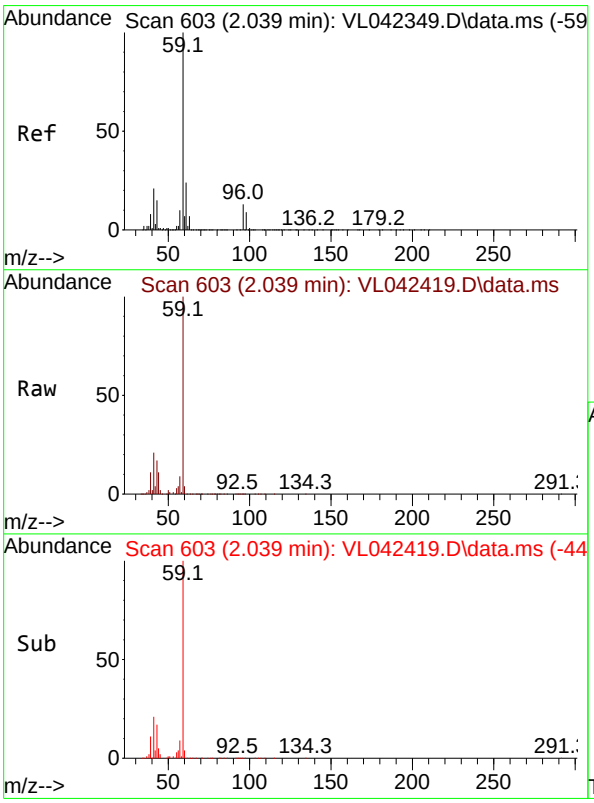
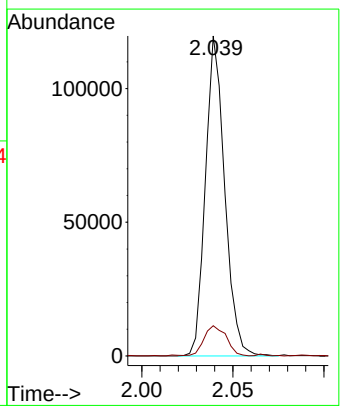
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

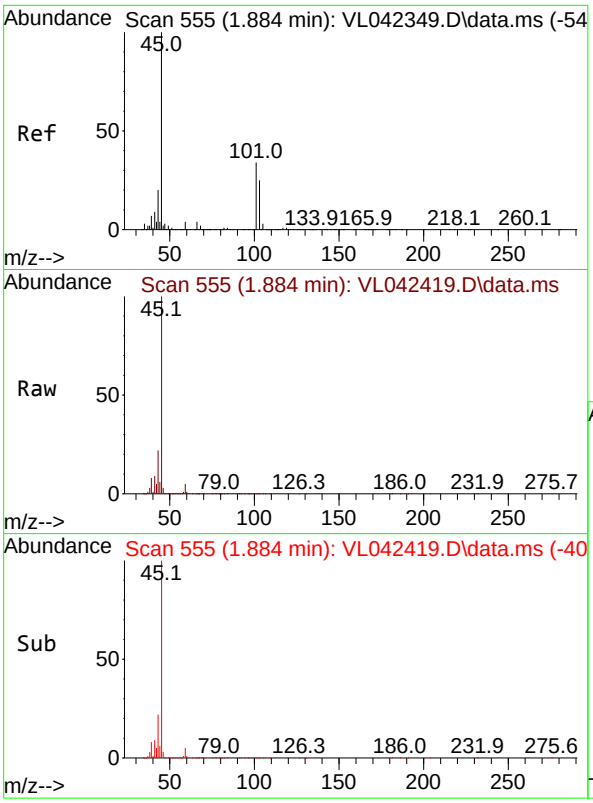



#17
tert-Butyl alcohol
Concen: 3.079 ppbv
RT: 2.039 min Scan# 603
Delta R.T. -0.000 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 59 Resp: 88272

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 11.2 | 8.7 | 13.1 |






#19
Isopropyl Alcohol
Concen: 32.231 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 45 Resp: 41415

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 21.5 | 34.5 | 51.7# |

**Instrument :**
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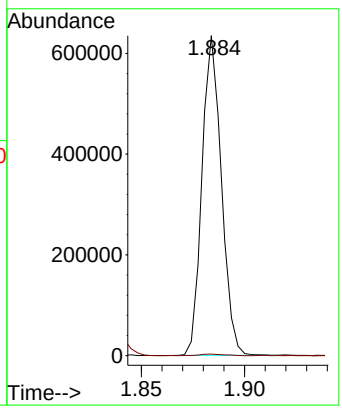
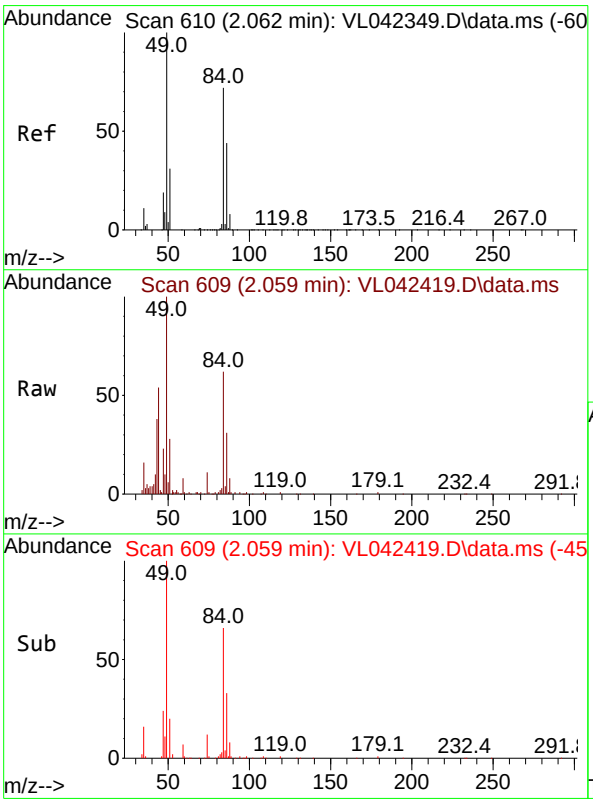
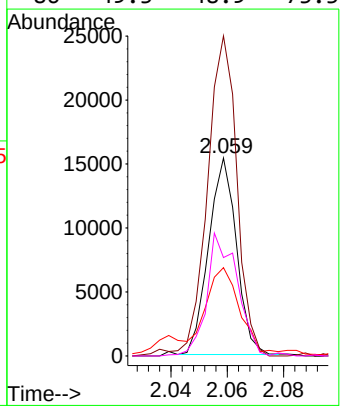


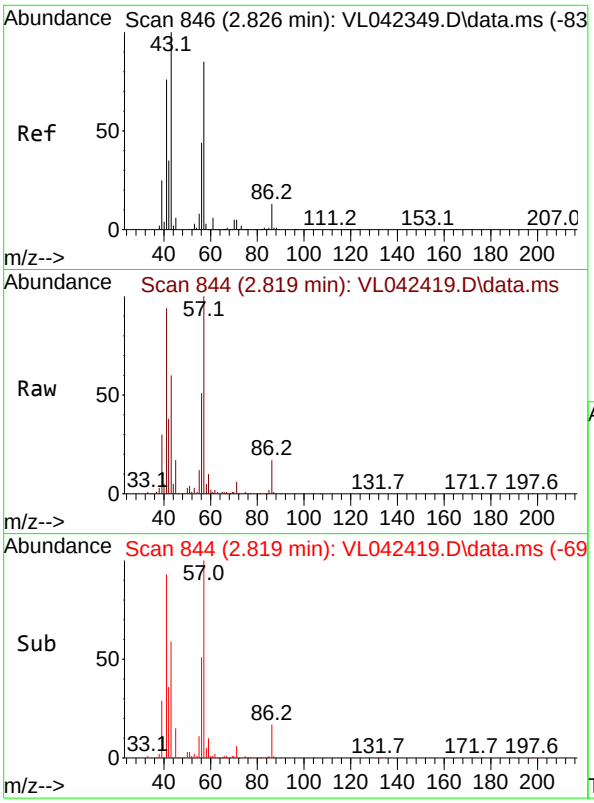




#20
Methylene Chloride
Concen: 1.162 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 84 Resp: 10525

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 162.9 | 111.6 | 167.4 |
| 51 | 42.8 | 35.1 | 52.7 |
| 86 | 49.3 | 48.9 | 73.3 |

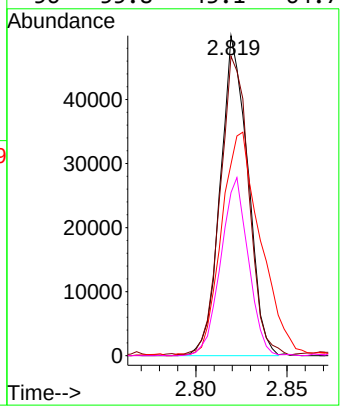





#26
Hexane
Concen: 2.273 ppbv
RT: 2.819 min Scan# 84
Delta R.T. -0.007 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 57 Resp: 5245

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 97.9 | 77.9 | 116.9 |
| 43 | 99.2 | 208.4 | 312.6# |
| 56 | 55.8 | 43.1 | 64.7 |




**Instrument :**
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**ClientSampleId :**
IA-B2-3-3242025

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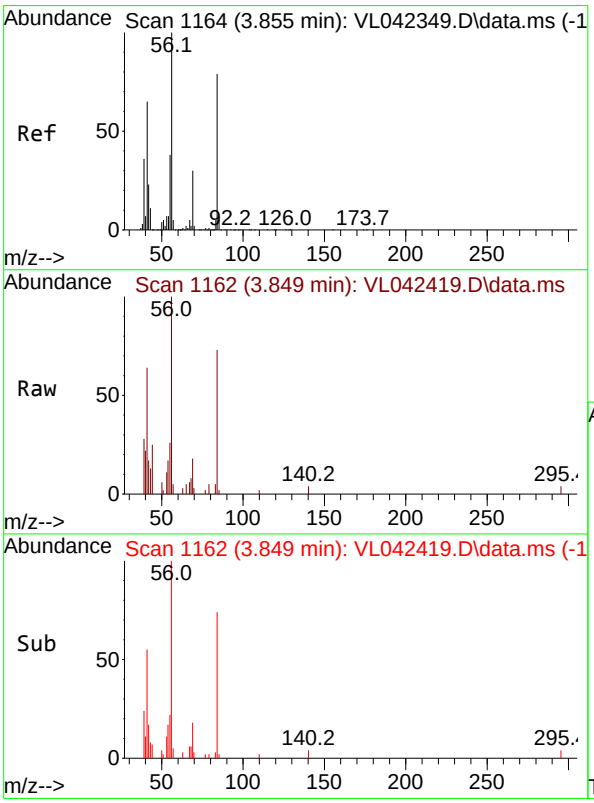
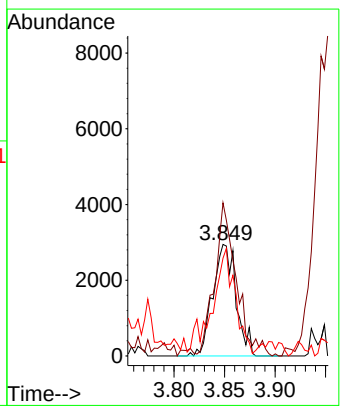
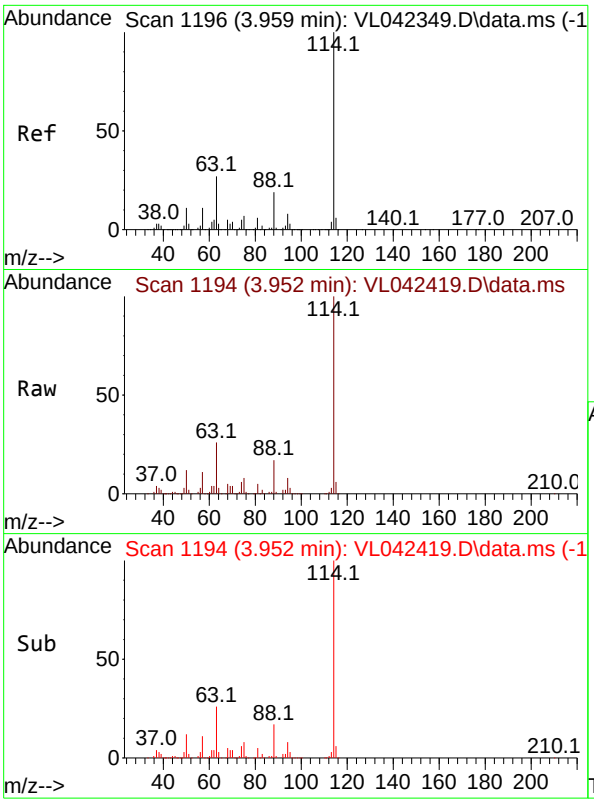



#30
Cyclohexane
Concen: 0.252 ppbv m
RT: 3.849 min Scan# 1162
Delta R.T. -0.007 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 84 Resp: 4707

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 131.0 | 101.0 | 151.4 |
| 41 | 110.2 | 67.4 | 101.0# |

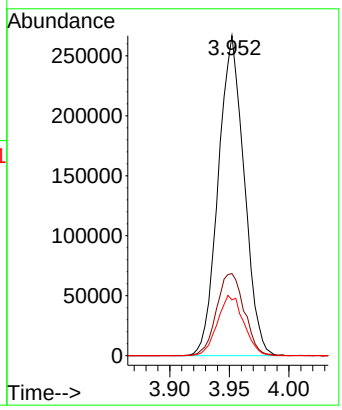





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1
Delta R.T. -0.007 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion:114 Resp: 40191

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 27.5 | 21.8 | 32.6 |
| 88 | 19.2 | 15.5 | 23.3 |

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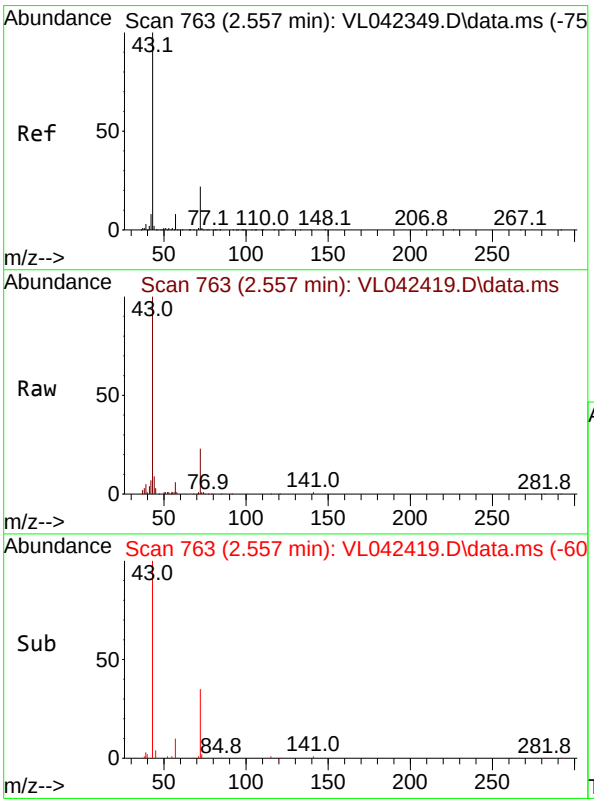
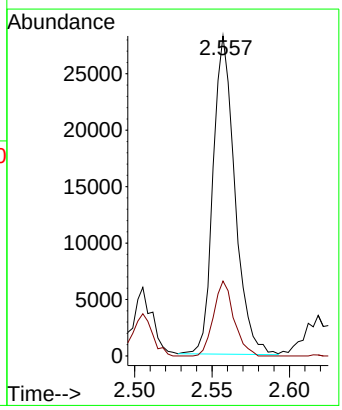
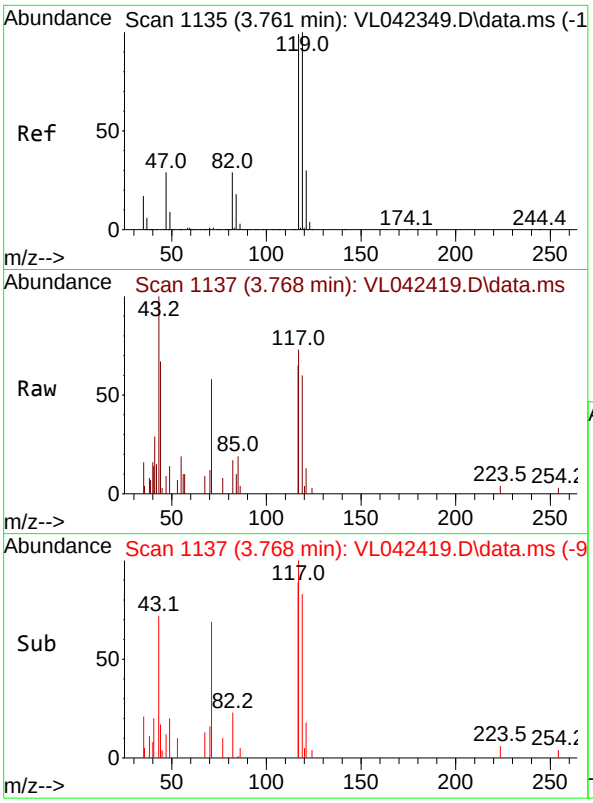



#34
2-Butanone
Concen: 0.869 ppbv
RT: 2.557 min Scan# 763
Delta R.T. -0.000 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 43 Resp: 27638

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 22.0 | 18.2 | 27.2 |

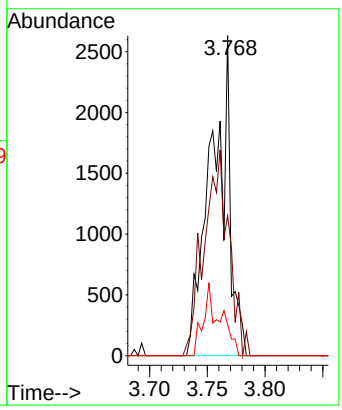





#35
Carbon Tetrachloride
Concen: 0.084 ppbv m
RT: 3.768 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion:117 Resp: 305

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 82.6 | 80.5 | 120.7 |
| 121 | 18.4 | 24.2 | 36.2# |




**Instrument :**
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IA-B2-3-3242025

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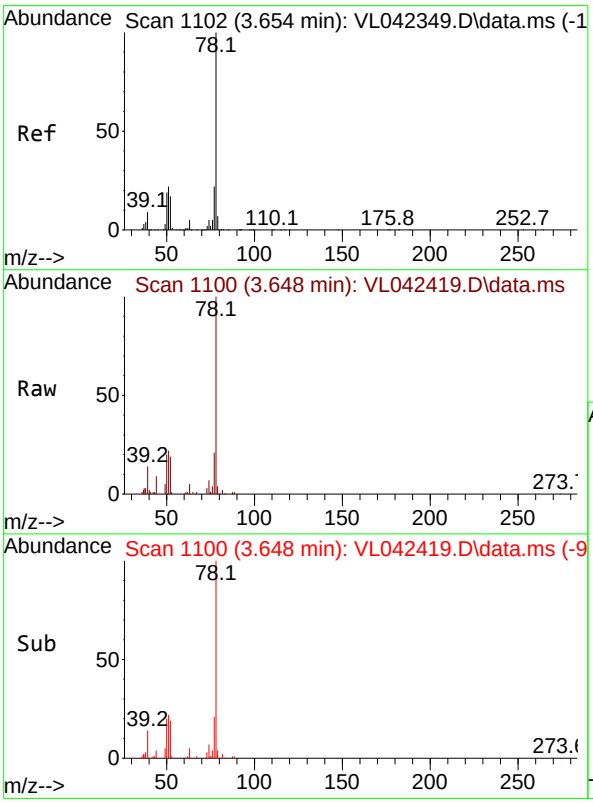
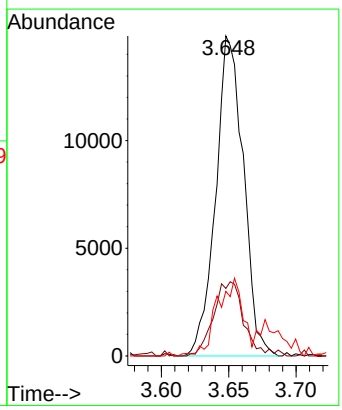
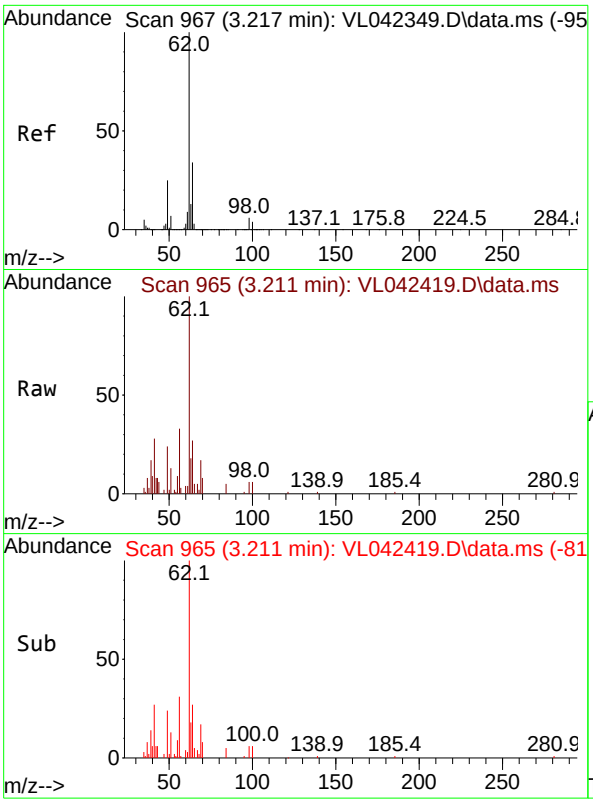



#36
Benzene
Concen: 0.490 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. -0.007 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 78 Resp: 21233

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 21.1 | 17.4 | 26.0 |
| 50 | 20.2 | 15.5 | 23.3 |

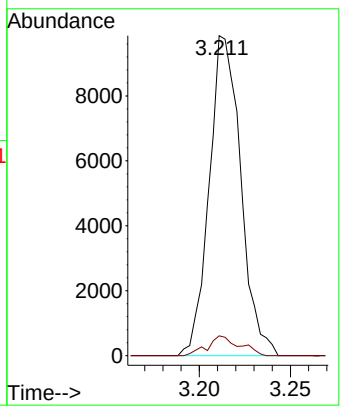





#37
1,2-Dichloroethane
Concen: 0.456 ppbv
RT: 3.211 min Scan# 9
Delta R.T. -0.007 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 62 Resp: 1186

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 6.2 | 5.1 | 7.7 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-3-3242025

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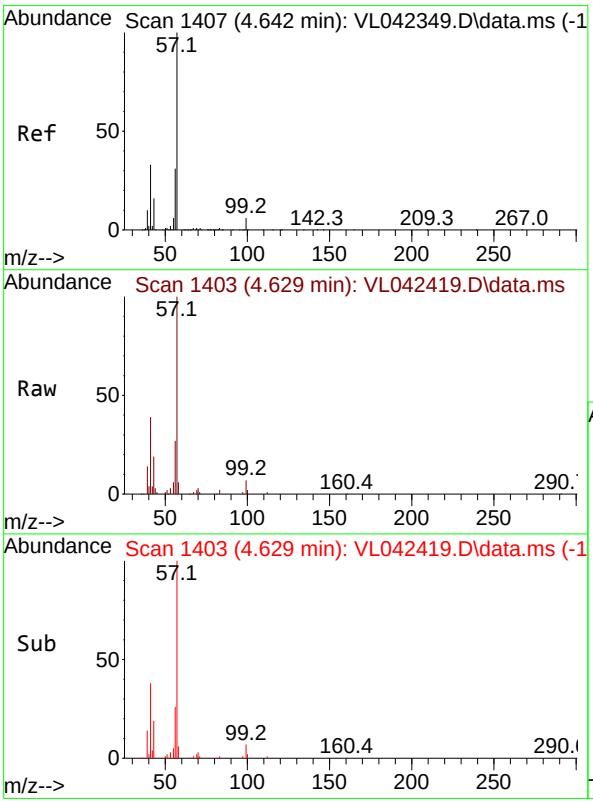
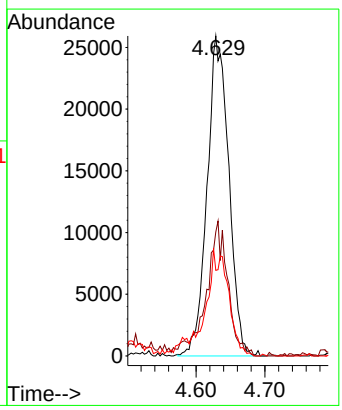
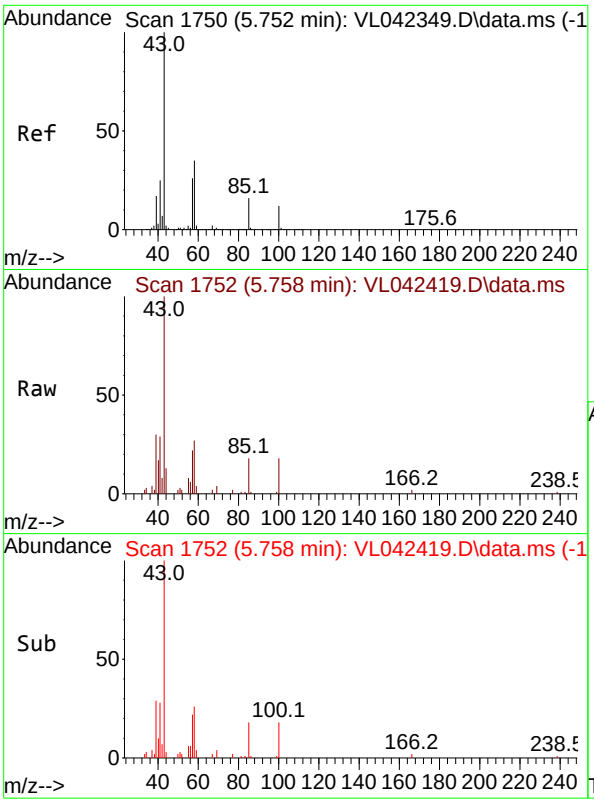



#44
2,2,4-Trimethylpentane
Concen: 0.760 ppbv m
RT: 4.629 min Scan# 1403
Delta R.T. -0.013 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 57 Resp: 56896

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 0.0 | 27.2 | 40.8# |
| 56 | 0.0 | 25.7 | 38.5# |

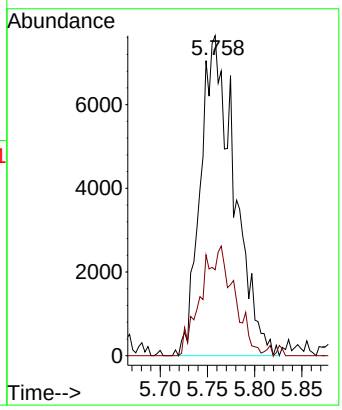





#50
4-Methyl-2-Pentanone
Concen: 0.361 ppbv m
RT: 5.758 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 43 Resp: 1908

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 0.0 | 28.6 | 43.0# |

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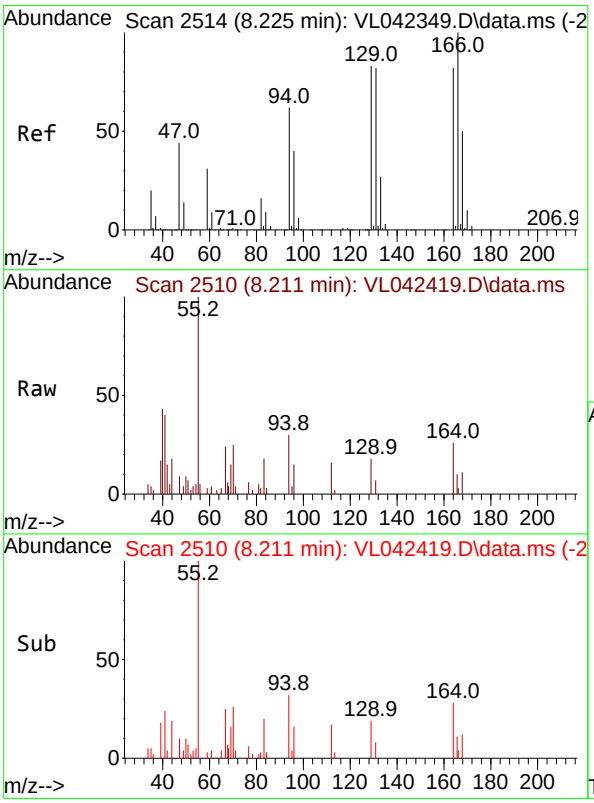
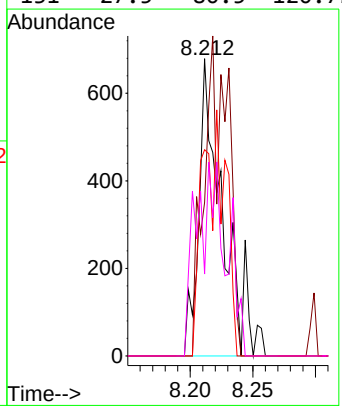
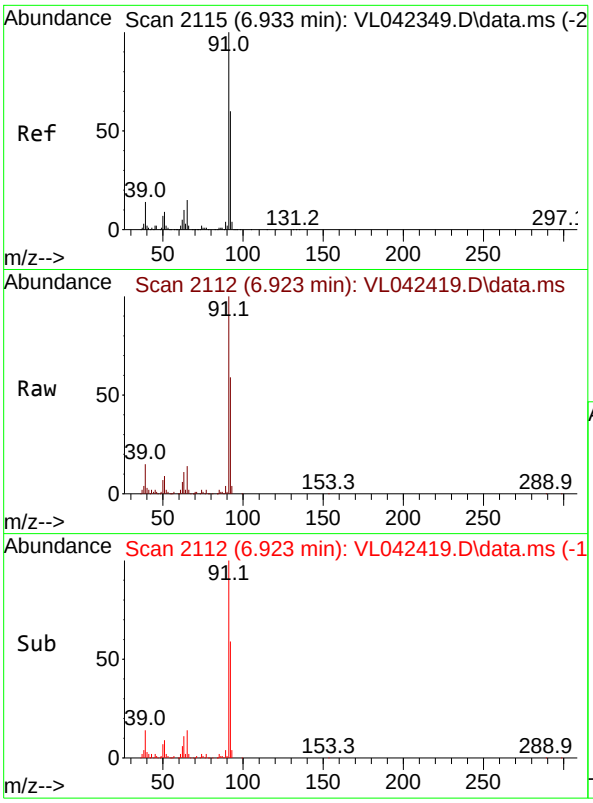



#52
Tetrachloroethene
Concen: 0.053 ppbv m
RT: 8.211 min Scan# 2510
Delta R.T. -0.013 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion:164 Resp: 894

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 38.4 | 98.2 | 147.2# |
| 129 | 69.4 | 81.8 | 122.8# |
| 131 | 27.5 | 80.5 | 120.7# |

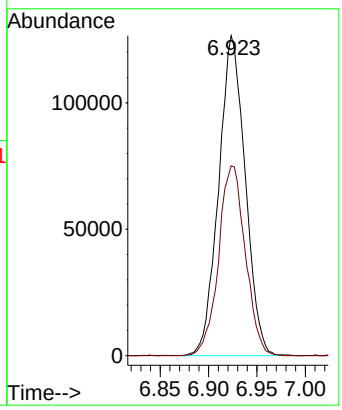





#53
Toluene
Concen: 4.644 ppbv
RT: 6.923 min Scan# 21
Delta R.T. -0.010 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 91 Resp: 24156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 59.8 | 48.2 | 72.4 |

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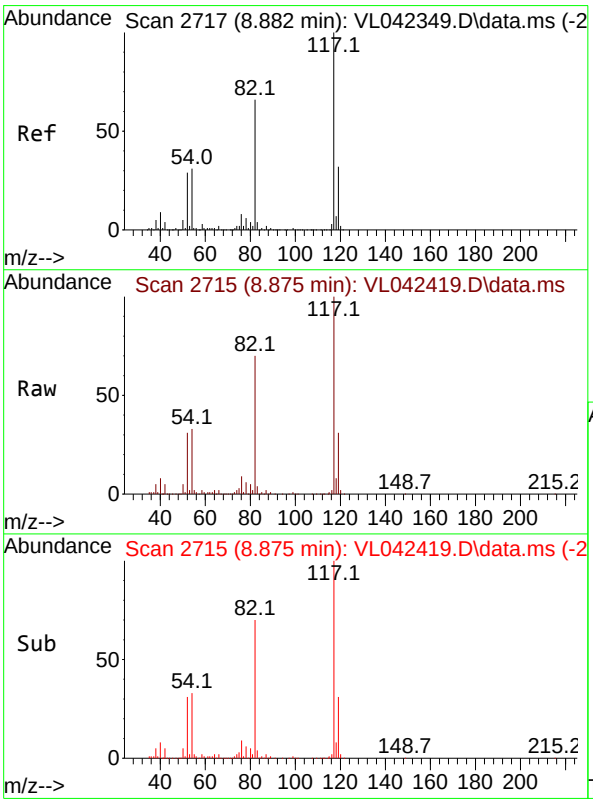
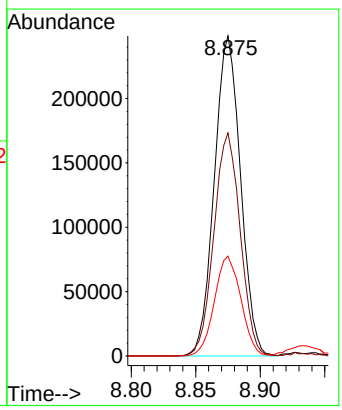
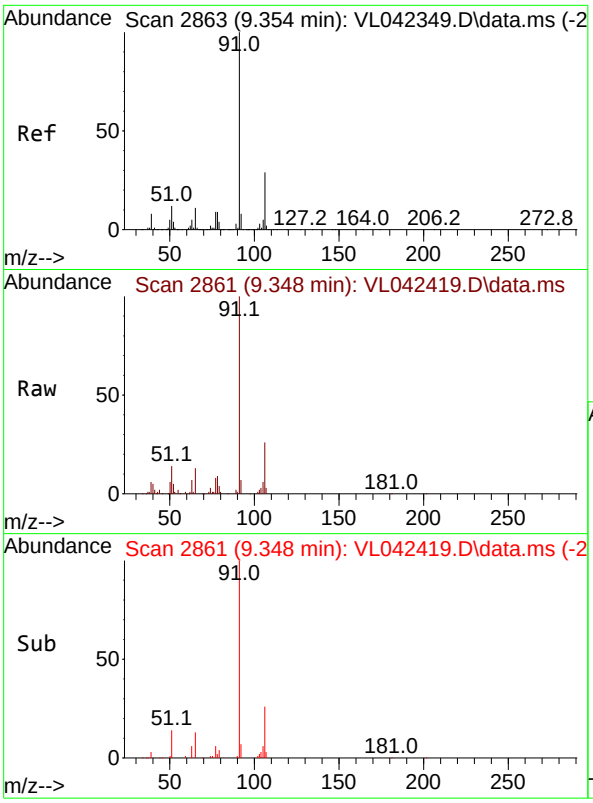



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. -0.007 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion:117 Resp: 351139

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 70.1 | 57.8 | 86.6 |
| 119 | 31.6 | 25.2 | 37.8 |






#58
Ethyl Benzene
Concen: 0.561 ppbv
RT: 9.348 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 91 Resp: 3906

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 25.9 | 23.0 | 34.4 |

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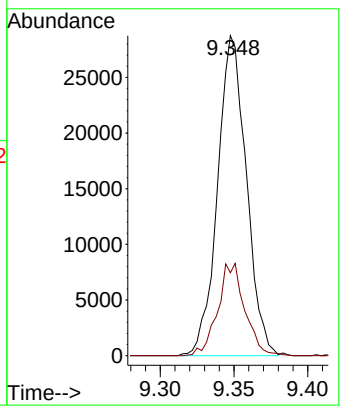
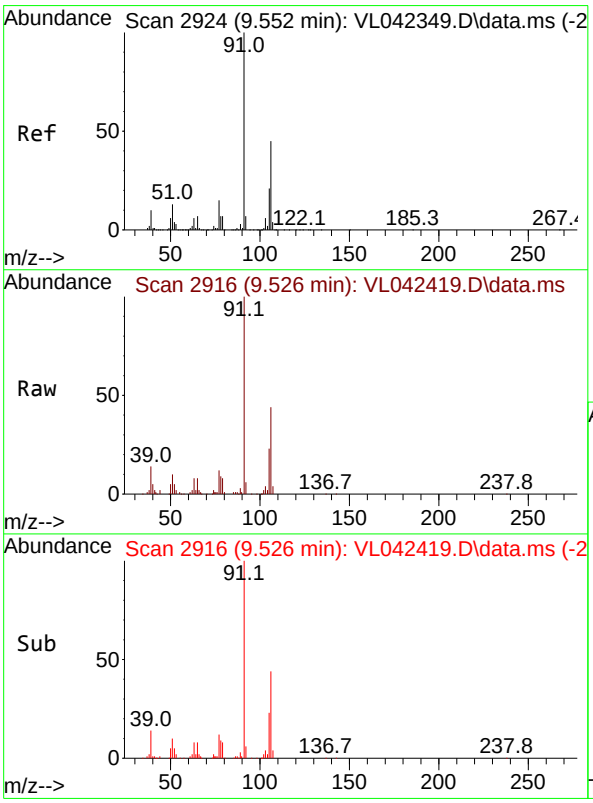
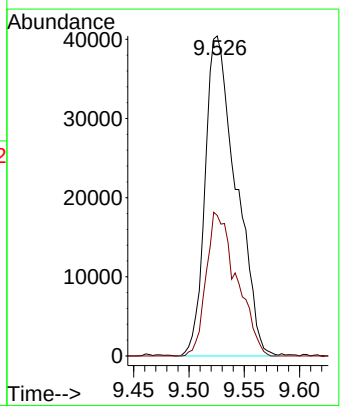


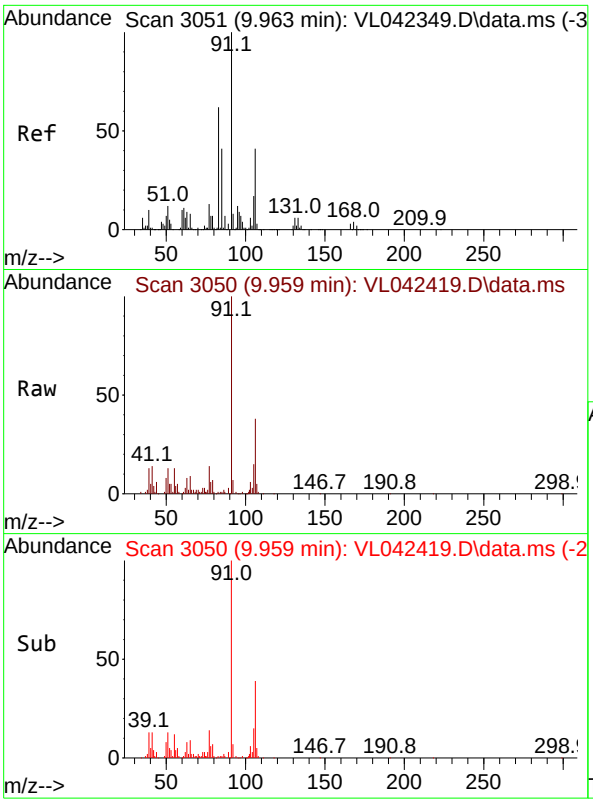




#59
m/p-Xylene
Concen: 1.407 ppbv
RT: 9.526 min Scan# 2916
Delta R.T. -0.026 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 91 Resp: 78855

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 44.3 | 35.4 | 53.2 |

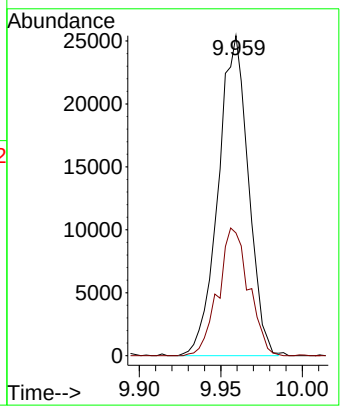





#60
o-Xylene
Concen: 0.578 ppbv
RT: 9.959 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 91 Resp: 3263

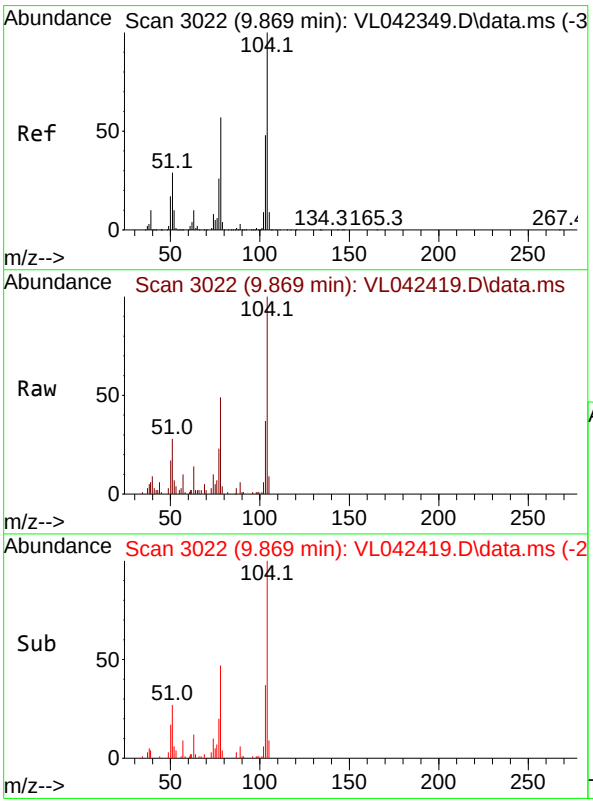
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 40.6 | 21.1 | 63.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-3-3242025

**Manual Integrations**
**APPROVED**

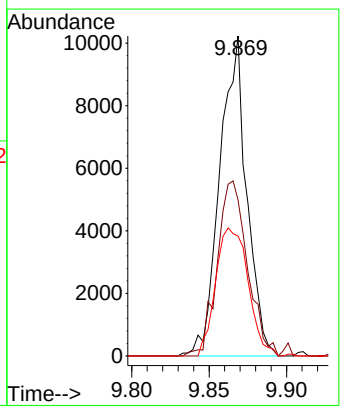
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

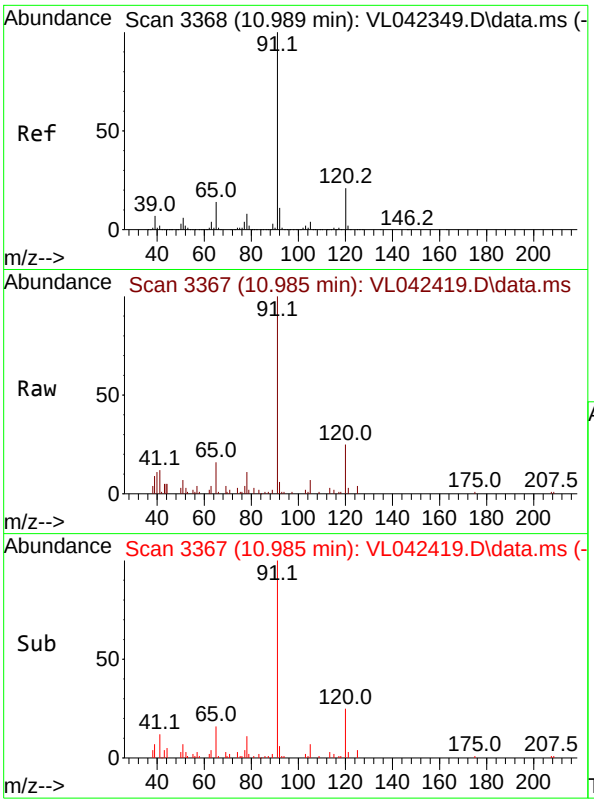



#61
Styrene
Concen: 0.460 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. -0.000 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion:104 Resp: 12396

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 62.2 | 44.6 | 66.8 |
| 103 | 48.4 | 37.4 | 56.0 |






#64
n-propylbenzene
Concen: 0.123 ppbv
RT: 10.985 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

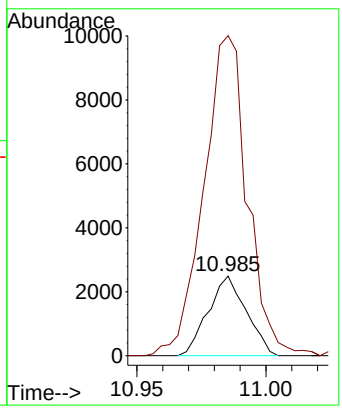
Tgt Ion:120 Resp: 255

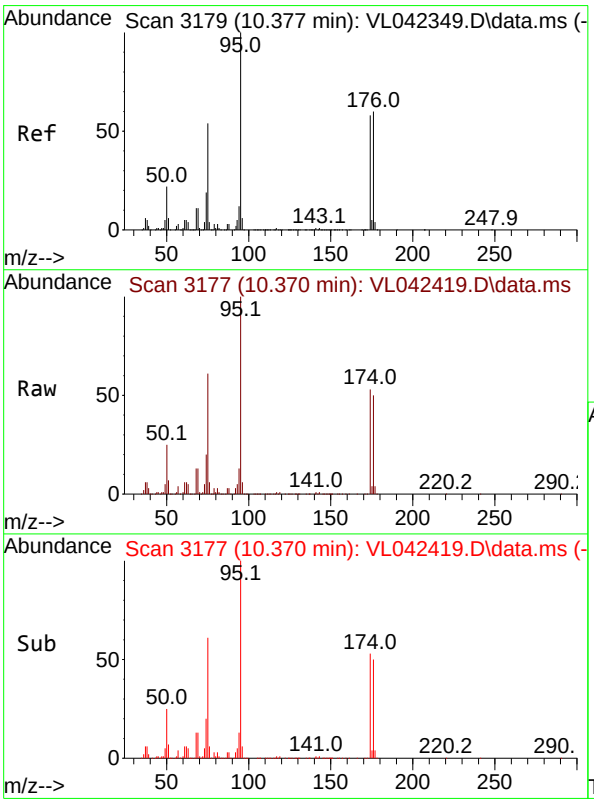
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 461.4 | 392.4 | 588.6 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-3-3242025

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

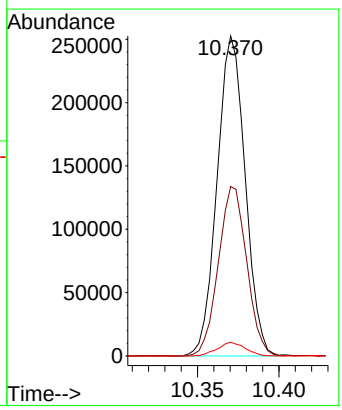


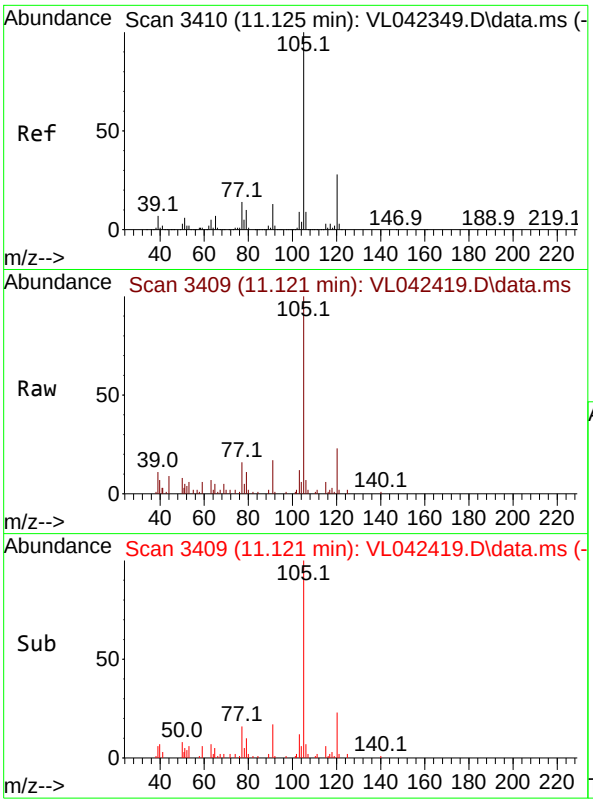




#68
1-Bromo-4-Fluorobenzene
Concen: 10.481 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. -0.007 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 95 Resp: 302429

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 53.5 | 48.5 | 72.7 |
| 175 | 4.2 | 3.7 | 5.5 |

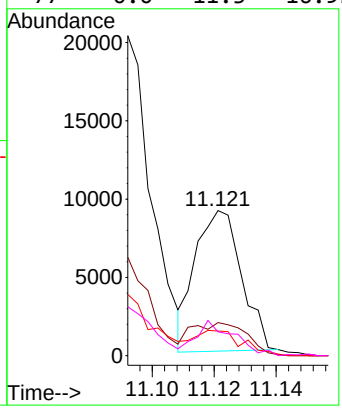





#72
4-Ethyltoluene
Concen: 0.135 ppbv
RT: 11.121 min Scan# 34
Delta R.T. -0.003 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion:105 Resp: 930

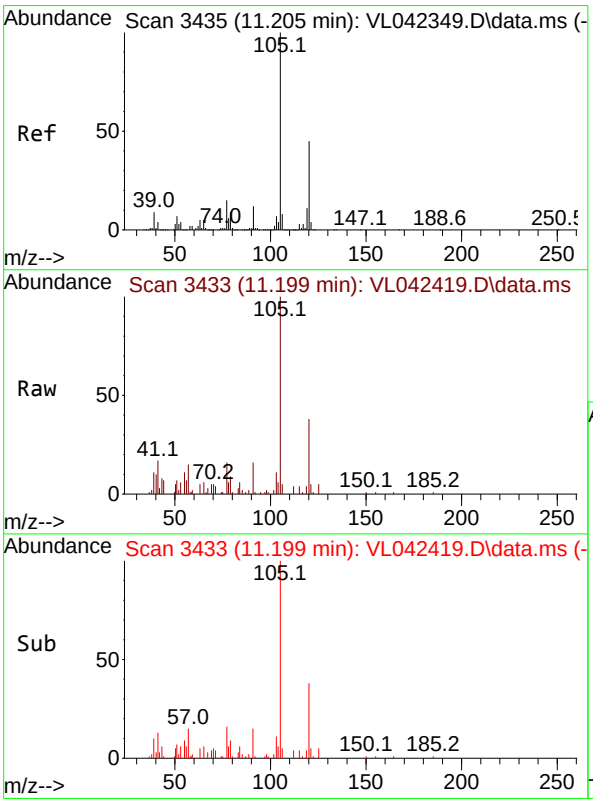
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 0.0 | 23.2 | 34.8# |
| 91 | 0.0 | 10.4 | 15.6# |
| 77 | 0.0 | 11.3 | 16.9# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-3-3242025

**Manual Integrations**
**APPROVED**

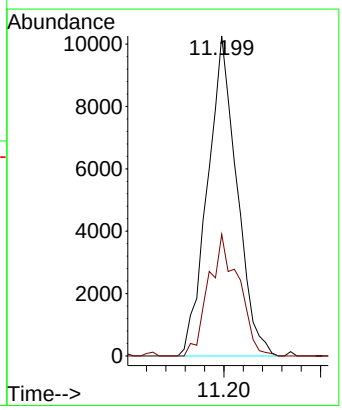
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

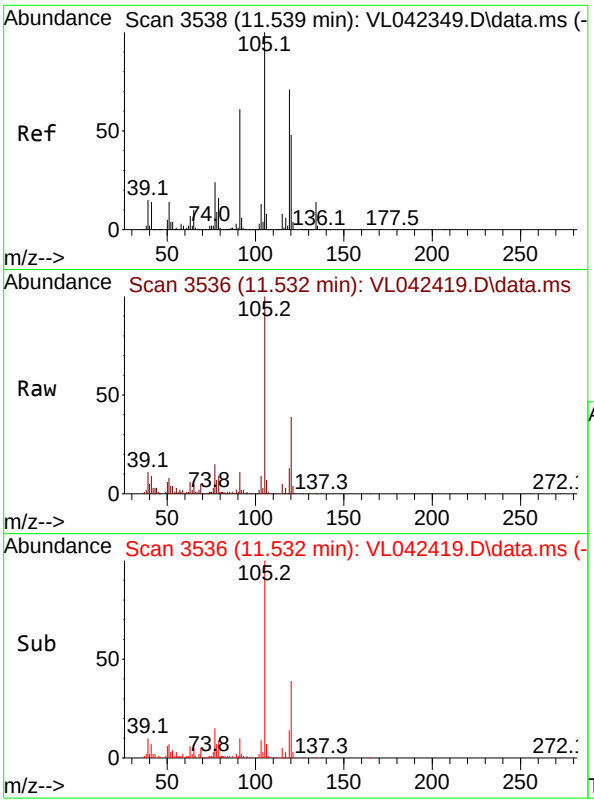



#73
1,3,5-Trimethylbenzene
Concen: 0.177 ppbv
RT: 11.199 min Scan# 3433
Delta R.T. -0.007 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion:105 Resp: 10799

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 38.0 | 35.6 | 53.4 |

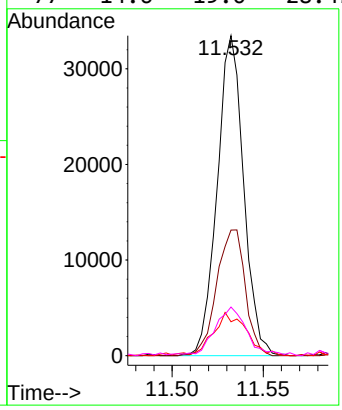





#74
1,2,4-Trimethylbenzene
Concen: 0.475 ppbv
RT: 11.532 min Scan# 3
Delta R.T. -0.007 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion:105 Resp: 3380

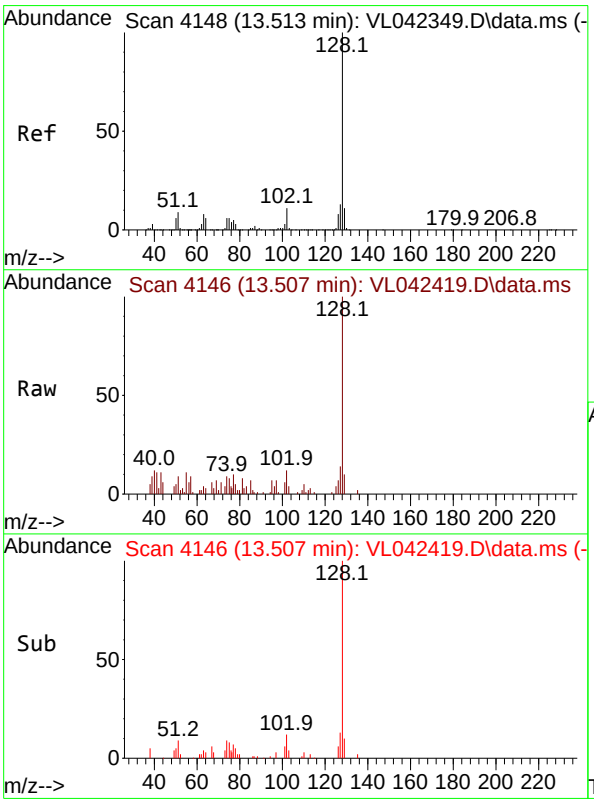
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 39.3 | 38.1 | 57.1 |
| 91 | 10.1 | 48.8 | 73.2# |
| 77 | 14.6 | 19.0 | 28.4# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-3-3242025

**Manual Integrations**
**APPROVED**

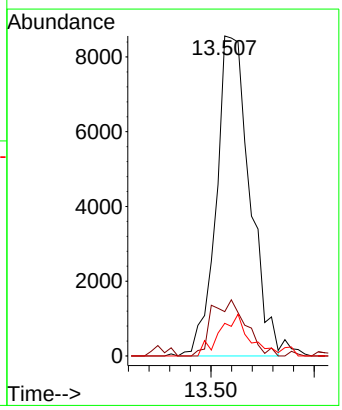
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025




#79
Naphthalene
Concen: 0.113 ppbv
RT: 13.507 min Scan# 4146
Delta R.T. -0.007 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion:128 Resp: 9645

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.8 | 10.6 | 15.8 |
| 129 | 10.2 | 8.6 | 12.8 |



LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042419.D
Acq On : 28 Apr 2025 10:59
Operator : SY/MD
Sample : Q1665-05
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-3-3242025

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

Signal : TIC: VL042419.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.428 | 409 | 414 | 420 | rBV | 4506965 | 5135248 | 100.00% | 19.971% |
| 2 | 1.463 | 422 | 425 | 429 | rBV | 421014 | 223277 | 4.35% | 0.868% |
| 3 | 1.486 | 429 | 432 | 434 | rVV | 193450 | 85350 | 1.66% | 0.332% |
| 4 | 1.557 | 450 | 454 | 458 | rBV | 2597879 | 1272098 | 24.77% | 4.947% |
| 5 | 1.618 | 469 | 473 | 478 | rVB | 626476 | 330155 | 6.43% | 1.284% |
| 6 | 1.719 | 500 | 504 | 512 | rVB | 1383524 | 810395 | 15.78% | 3.152% |
| 7 | 1.842 | 535 | 542 | 548 | rBV2 | 1540249 | 1388196 | 27.03% | 5.399% |
| 8 | 1.884 | 548 | 555 | 560 | rBV | 1035018 | 687640 | 13.39% | 2.674% |
| 9 | 1.962 | 575 | 579 | 584 | rBV | 104300 | 67533 | 1.32% | 0.263% |
| 10 | 2.039 | 599 | 603 | 606 | rBV | 214233 | 161971 | 3.15% | 0.630% |
| 11 | 2.055 | 606 | 608 | 613 | rVB2 | 84284 | 63748 | 1.24% | 0.248% |
| 12 | 2.269 | 668 | 674 | 681 | rBV | 203508 | 179945 | 3.50% | 0.700% |
| 13 | 2.408 | 711 | 717 | 723 | rBV | 196640 | 194323 | 3.78% | 0.756% |
| 14 | 2.470 | 728 | 736 | 742 | rVB4 | 83308 | 108248 | 2.11% | 0.421% |
| 15 | 2.622 | 774 | 783 | 789 | rBV | 50564 | 54809 | 1.07% | 0.213% |
| 16 | 2.784 | 824 | 833 | 839 | rBV | 551996 | 560743 | 10.92% | 2.181% |
| 17 | 2.819 | 839 | 844 | 858 | rVB2 | 236646 | 286583 | 5.58% | 1.115% |
| 18 | 3.217 | 960 | 967 | 979 | rVB5 | 52399 | 78921 | 1.54% | 0.307% |
| 19 | 3.648 | 1088 | 1100 | 1106 | rBV5 | 35452 | 58830 | 1.15% | 0.229% |
| 20 | 3.680 | 1106 | 1110 | 1125 | rVB2 | 143321 | 217354 | 4.23% | 0.845% |
| 21 | 3.952 | 1182 | 1194 | 1206 | rBV | 708837 | 1117982 | 21.77% | 4.348% |
| 22 | 4.043 | 1212 | 1222 | 1230 | rBV4 | 43223 | 78233 | 1.52% | 0.304% |
| 23 | 4.256 | 1274 | 1288 | 1303 | rVB5 | 63919 | 138204 | 2.69% | 0.537% |
| 24 | 4.629 | 1394 | 1403 | 1420 | rVB4 | 61017 | 138366 | 2.69% | 0.538% |
| 25 | 5.655 | 1702 | 1720 | 1732 | rBV8 | 21305 | 56000 | 1.09% | 0.218% |
| 26 | 5.761 | 1739 | 1753 | 1763 | rBV4 | 22814 | 57456 | 1.12% | 0.223% |
| 27 | 6.836 | 2068 | 2085 | 2099 | rBV2 | 195019 | 468733 | 9.13% | 1.823% |
| 28 | 6.927 | 2099 | 2113 | 2129 | rVB2 | 335620 | 695772 | 13.55% | 2.706% |
| 29 | 7.681 | 2336 | 2346 | 2358 | rBV3 | 152808 | 255492 | 4.98% | 0.994% |
| 30 | 8.292 | 2528 | 2535 | 2550 | rVB7 | 50303 | 95640 | 1.86% | 0.372% |
| 31 | 8.875 | 2700 | 2715 | 2724 | rBV2 | 910919 | 1348888 | 26.27% | 5.246% |
| 32 | 8.933 | 2724 | 2733 | 2745 | rVB2 | 495279 | 797933 | 15.54% | 3.103% |
| 33 | 9.348 | 2851 | 2861 | 2874 | rBV | 69371 | 104120 | 2.03% | 0.405% |
| 34 | 9.522 | 2905 | 2915 | 2933 | rVB | 120835 | 242077 | 4.71% | 0.941% |
| 35 | 9.862 | 3010 | 3020 | 3028 | rBV6 | 44121 | 68270 | 1.33% | 0.266% |
| 36 | 9.933 | 3032 | 3042 | 3047 | rVV2 | 156222 | 224672 | 4.38% | 0.874% |

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042419.D
Acq On : 28 Apr 2025 10:59
Operator : SY/MD
Sample : Q1665-05
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-3-3242025

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 37 | 9.959 | 3047 | 3050 | 3070 | rVB5 | 89818 | 126623 | 2.47% | 0.492% |
| 38 | 10.370 | 3162 | 3177 | 3187 | rBV2 | 1173726 | 1461419 | 28.46% | 5.683% |
| 39 | 10.853 | 3317 | 3326 | 3334 | rVB | 243697 | 282763 | 5.51% | 1.100% |
| 40 | 11.092 | 3393 | 3400 | 3405 | rBV | 59576 | 67790 | 1.32% | 0.264% |
| 41 | 11.422 | 3496 | 3502 | 3508 | rVB3 | 49990 | 58943 | 1.15% | 0.229% |
| 42 | 11.532 | 3526 | 3536 | 3546 | rVB2 | 105104 | 144627 | 2.82% | 0.562% |
| 43 | 11.720 | 3583 | 3594 | 3598 | rBV | 110204 | 131642 | 2.56% | 0.512% |
| 44 | 11.772 | 3598 | 3610 | 3624 | rVB2 | 2762131 | 3323481 | 64.72% | 12.925% |
| 45 | 12.037 | 3686 | 3692 | 3702 | rVB3 | 165355 | 186261 | 3.63% | 0.724% |
| 46 | 12.668 | 3882 | 3887 | 3894 | rVB4 | 58194 | 58579 | 1.14% | 0.228% |
| 47 | 12.824 | 3928 | 3935 | 3942 | rBV2 | 187612 | 180664 | 3.52% | 0.703% |
| 48 | 12.998 | 3982 | 3989 | 4000 | rVB7 | 38362 | 58139 | 1.13% | 0.226% |
| 49 | 13.380 | 4099 | 4107 | 4115 | rVV2 | 1535788 | 1705492 | 33.21% | 6.633% |
| 50 | 13.723 | 4207 | 4213 | 4220 | rBV3 | 70290 | 74000 | 1.44% | 0.288% |

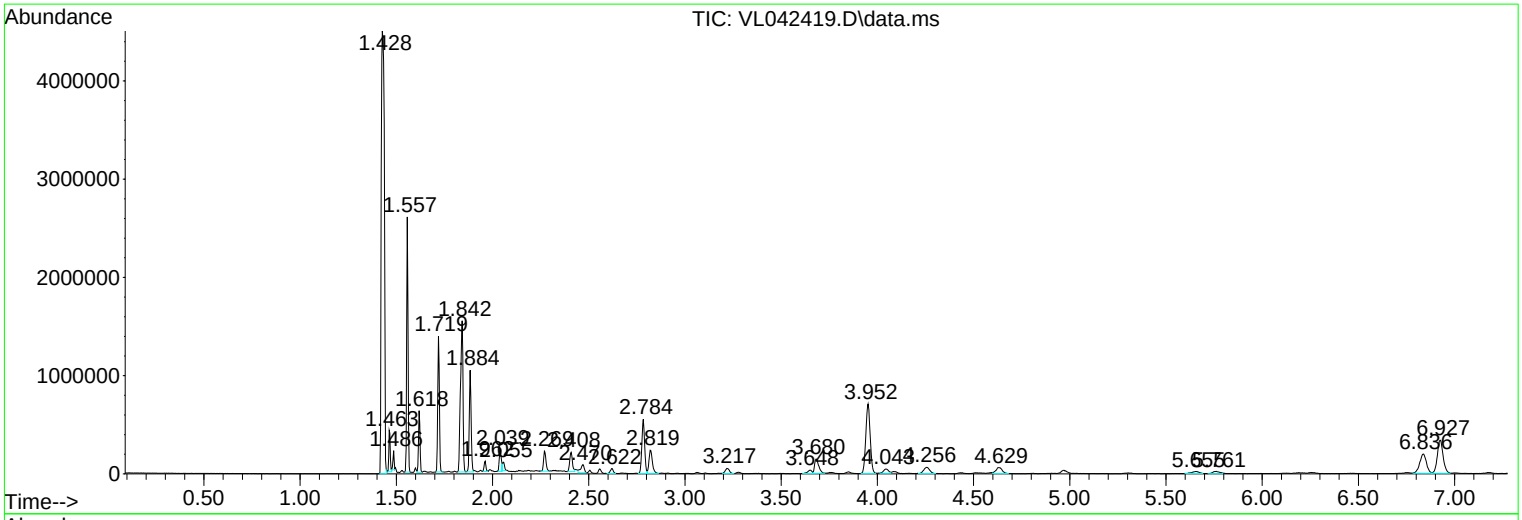
Sum of corrected areas: 25713628

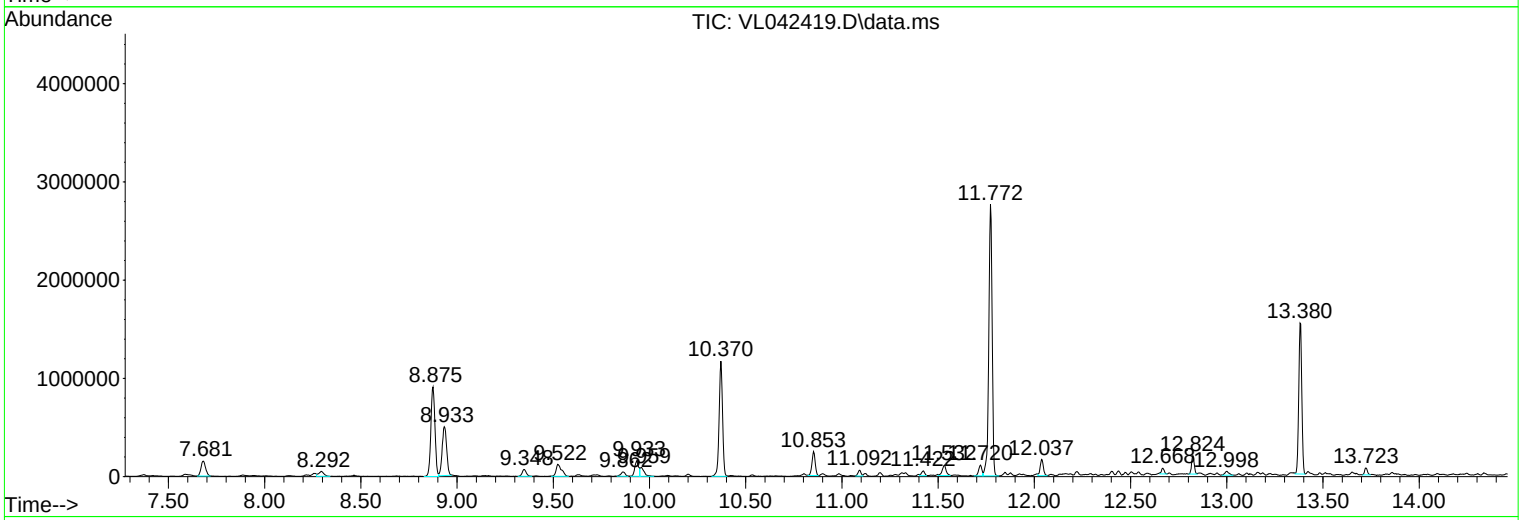
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042419.D
Acq On : 28 Apr 2025 10:59
Operator : SY/MD
Sample : Q1665-05
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

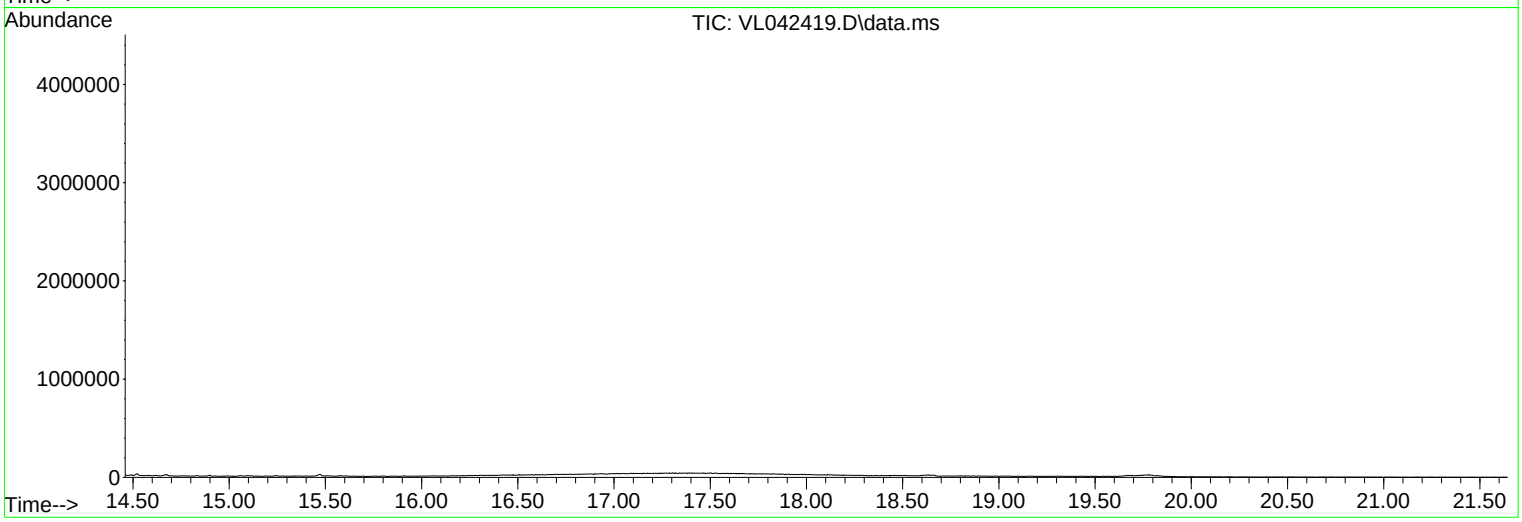
**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-3-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042419.D
Acq On : 28 Apr 2025 10:59
Operator : SY/MD
Sample : Q1665-05
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-3-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

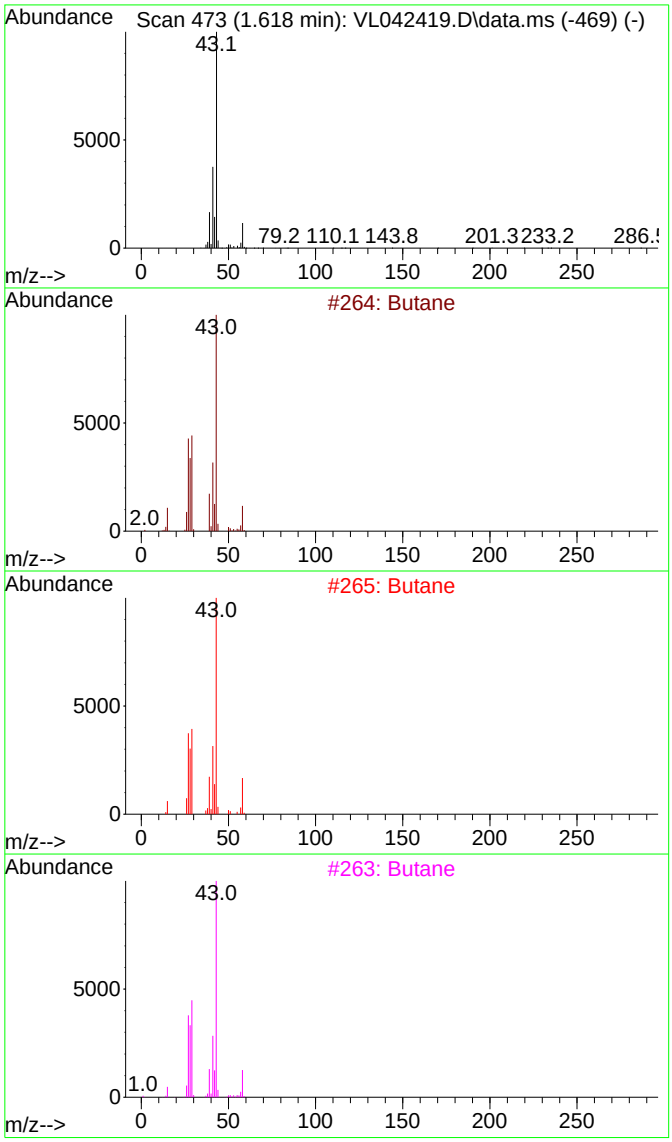
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

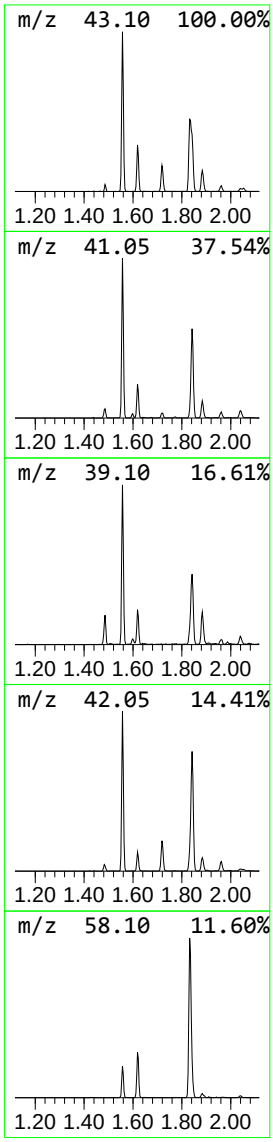
**********

Peak Number 1 Butane Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.618 | 5.89 ppbv | 330155 | Bromochloromethane | 2.784 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane | 58 | C4H10 | 000106-97-8 | 72 |
| 2 | Butane | 58 | C4H10 | 000106-97-8 | 72 |
| 3 | Butane | 58 | C4H10 | 000106-97-8 | 64 |
| 4 | Butane | 58 | C4H10 | 000106-97-8 | 64 |
| 5 | Propane, 2-nitro- | 89 | C3H7NO2 | 000079-46-9 | 9 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042419.D
Acq On : 28 Apr 2025 10:59
Operator : SY/MD
Sample : Q1665-05
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-3-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

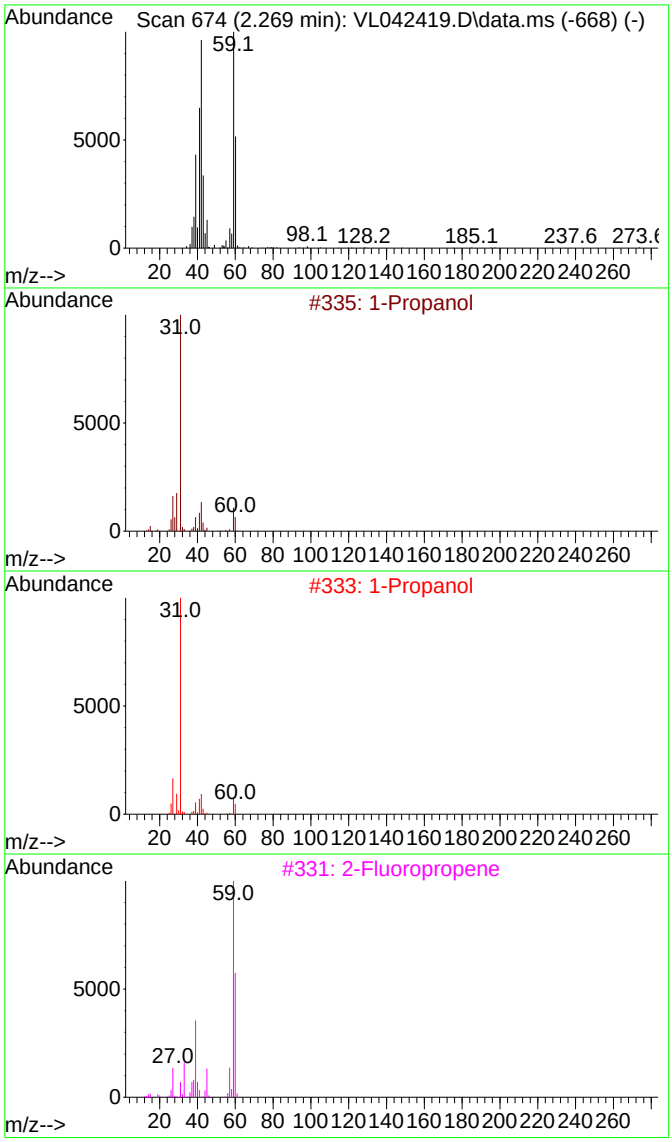
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

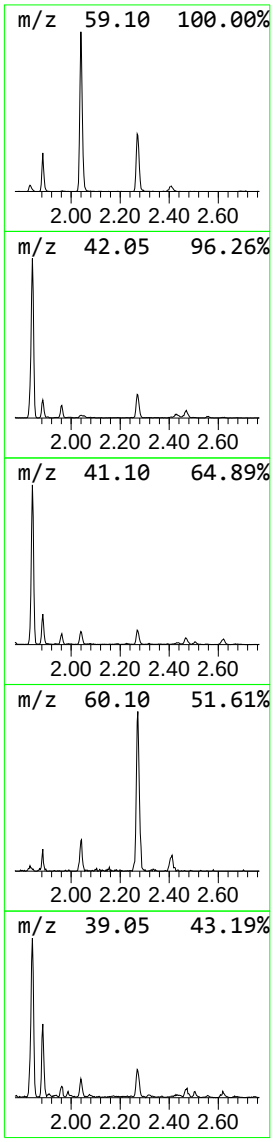
**********

Peak Number 2 1-Propanol Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.269 | 3.21 ppbv | 179945 | Bromochloromethane | 2.784 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Propanol | 60 | C3H8O | 000071-23-8 | 58 |
| 2 | 1-Propanol | 60 | C3H8O | 000071-23-8 | 53 |
| 3 | 2-Fluoropropene | 60 | C3H5F | 001184-60-7 | 43 |
| 4 | 1-Propanol | 60 | C3H8O | 000071-23-8 | 40 |
| 5 | Cyclopropane | 42 | C3H6 | 000075-19-4 | 38 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042419.D
Acq On : 28 Apr 2025 10:59
Operator : SY/MD
Sample : Q1665-05
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-3-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

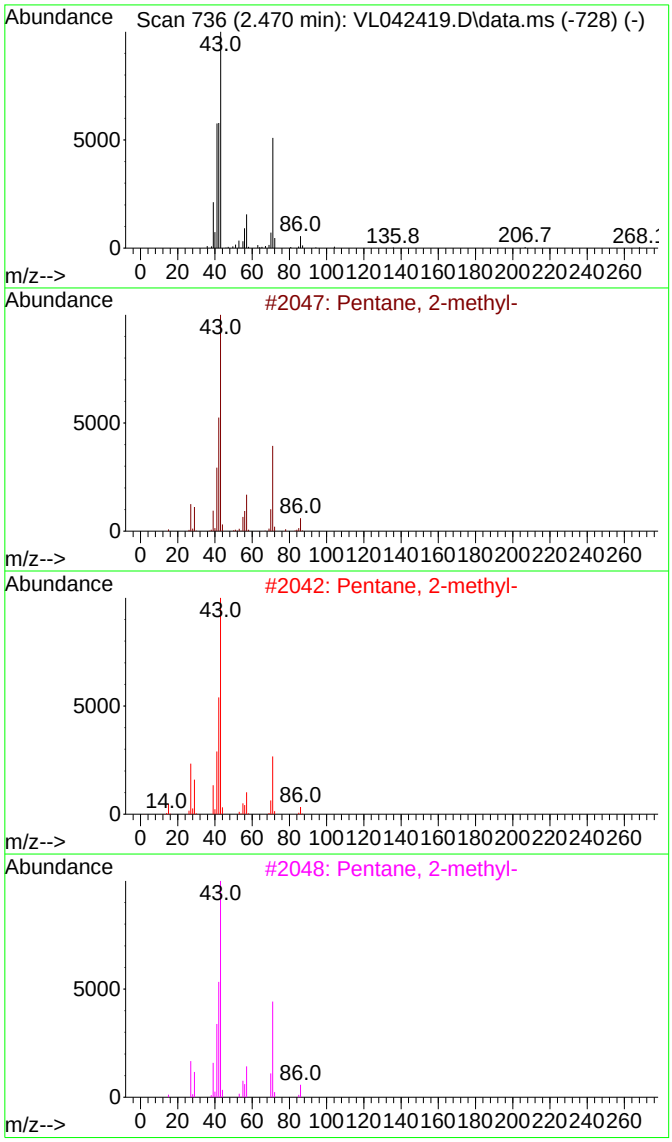
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

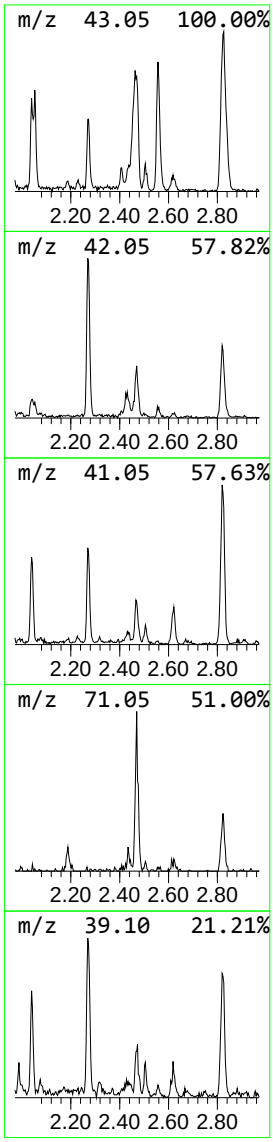
**********

Peak Number 4 Pentane, 2-methyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.470 | 1.93 ppbv | 108248 | Bromochloromethane | 2.784 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane, 2-methyl- | 86 | C6H14 | 000107-83-5 | 78 |
| 2 | Pentane, 2-methyl- | 86 | C6H14 | 000107-83-5 | 78 |
| 3 | Pentane, 2-methyl- | 86 | C6H14 | 000107-83-5 | 78 |
| 4 | Pentane, 2-methyl- | 86 | C6H14 | 000107-83-5 | 64 |
| 5 | Pentane, 2-methyl- | 86 | C6H14 | 000107-83-5 | 64 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042419.D
Acq On : 28 Apr 2025 10:59
Operator : SY/MD
Sample : Q1665-05
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-3-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

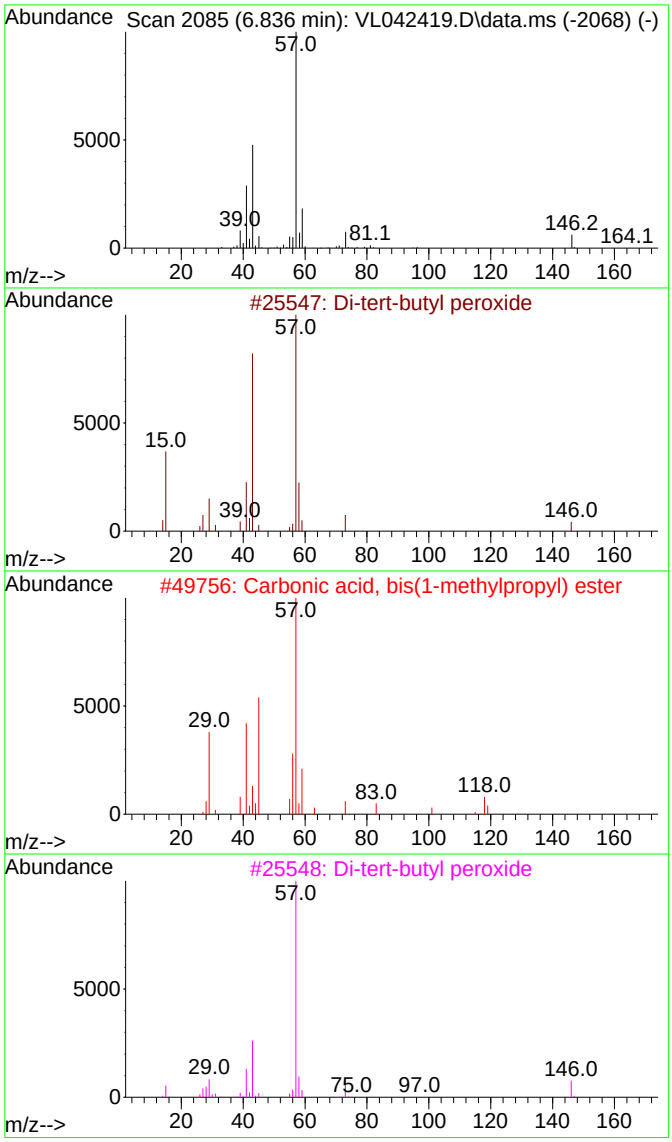
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

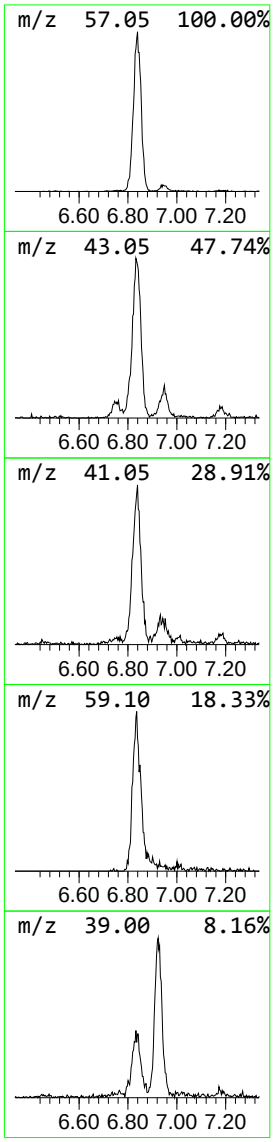
**********

Peak Number 5 Di-tert-butyl peroxide Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.836 | 3.47 ppbv | 468733 | Chlorobenzene-d5 | 8.875 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Di-tert-butyl peroxide | 146 | C8H18O2 | 000110-05-4 | 53 |
| 2 | Carbonic acid, bis(1-methylpropy... | 174 | C9H18O3 | 000623-63-2 | 42 |
| 3 | Di-tert-butyl peroxide | 146 | C8H18O2 | 000110-05-4 | 42 |
| 4 | Di-tert-butyl peroxide | 146 | C8H18O2 | 000110-05-4 | 40 |
| 5 | Propanoic acid, 2,2-dimethyl-, s... | 208 | C5H9AgO2 | 007324-58-5 | 38 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042419.D
Acq On : 28 Apr 2025 10:59
Operator : SY/MD
Sample : Q1665-05
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-3-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

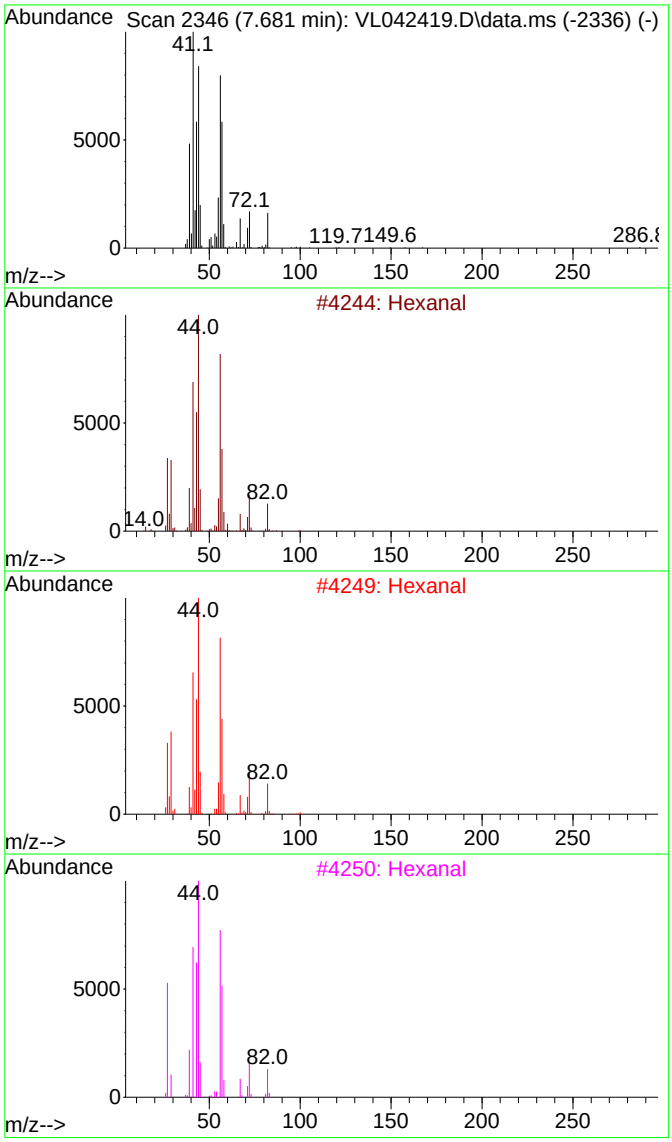
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

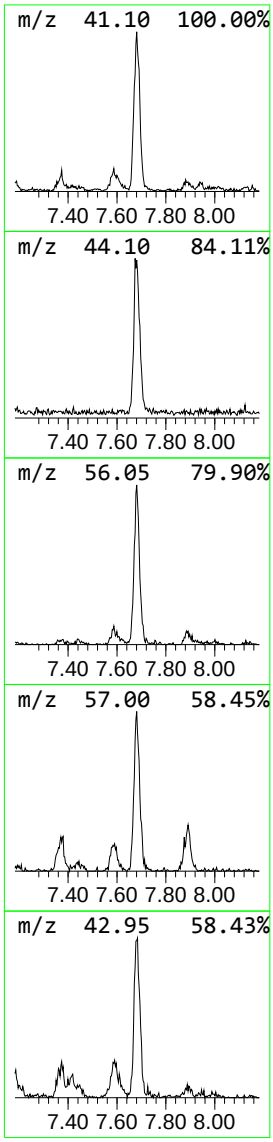
**********

Peak Number 6 Hexanal Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.681 | 1.89 ppbv | 255492 | Chlorobenzene-d5 | 8.875 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexanal | 100 | C6H12O | 000066-25-1 | 74 |
| 2 | Hexanal | 100 | C6H12O | 000066-25-1 | 72 |
| 3 | Hexanal | 100 | C6H12O | 000066-25-1 | 72 |
| 4 | Hexanal | 100 | C6H12O | 000066-25-1 | 64 |
| 5 | Hexanal | 100 | C6H12O | 000066-25-1 | 58 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042419.D
Acq On : 28 Apr 2025 10:59
Operator : SY/MD
Sample : Q1665-05
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-3-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

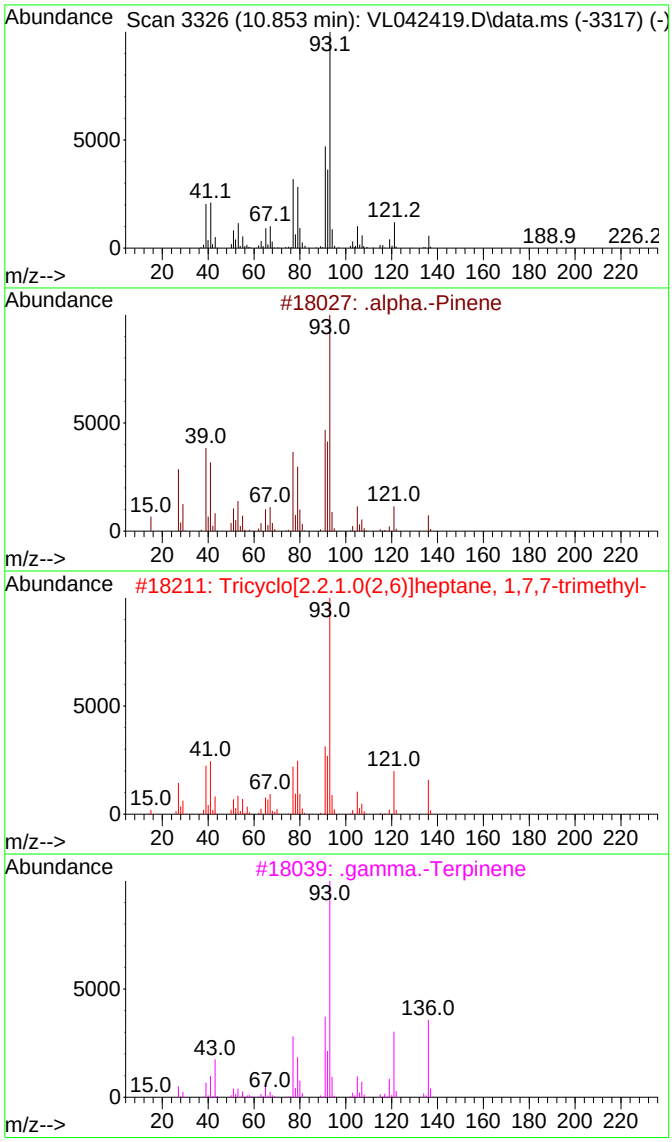
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

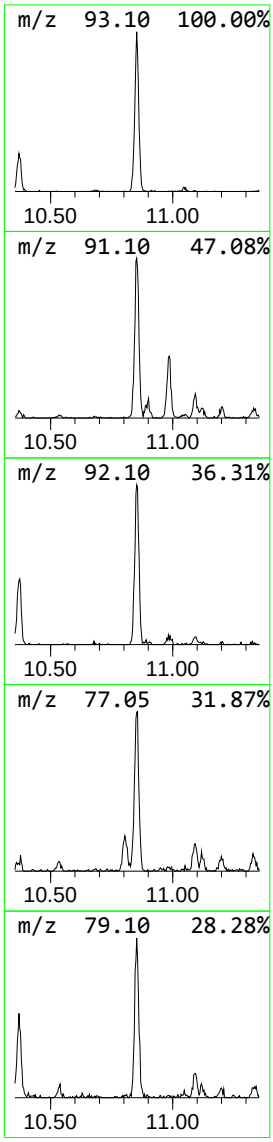
**********

Peak Number 8 .alpha.-Pinene Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.853 | 2.10 ppbv | 282763 | Chlorobenzene-d5 | 8.875 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | .alpha.-Pinene | 136 | C10H16 | 000080-56-8 | 95 |
| 2 | Tricyclo[2.2.1.0(2,6)]heptane, 1... | 136 | C10H16 | 000508-32-7 | 91 |
| 3 | .gamma.-Terpinene | 136 | C10H16 | 000099-85-4 | 91 |
| 4 | Bicyclo[3.1.1]hept-2-ene, 3,6,6-... | 136 | C10H16 | 004889-83-2 | 91 |
| 5 | .gamma.-Terpinene | 136 | C10H16 | 000099-85-4 | 90 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042419.D
Acq On : 28 Apr 2025 10:59
Operator : SY/MD
Sample : Q1665-05
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-3-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Butane | 1.618 | 5.9 | ppbv | 330155 | 1 | 2.784 | 560743 | 10.0 |
| 1-Propanol | 2.269 | 3.2 | ppbv | 179945 | 1 | 2.784 | 560743 | 10.0 |
| Pentane, 2-methyl- | 2.470 | 1.9 | ppbv | 108248 | 1 | 2.784 | 560743 | 10.0 |
| Di-tert-butyl p... | 6.836 | 3.5 | ppbv | 468733 | 3 | 8.875 | 1348890 | 10.0 |
| Hexanal | 7.681 | 1.9 | ppbv | 255492 | 3 | 8.875 | 1348890 | 10.0 |
| .alpha.-Pinene | 10.853 | 2.1 | ppbv | 282763 | 3 | 8.875 | 1348890 | 10.0 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B9-1-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-06 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042293.D | 1 | | 04/09/25 15:15 | VL040925 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.37 | 1.83 | J | 1.04 | 2.47 | ug/m3 |
| 64-17-5 | Ethanol | 37.8 | 71.2 | EQ | 0.60 | 0.94 | ug/m3 |
| 74-87-3 | Chloromethane | 0.58 | 1.20 | | 0.21 | 1.03 | ug/m3 |
| 75-01-4 | Vinyl Chloride | 0.010 | 0.030 | U | 0.030 | 0.080 | ug/m3 |
| 74-83-9 | Bromomethane | 0.14 | 0.54 | U | 0.54 | 1.94 | ug/m3 |
| 75-00-3 | Chloroethane | 0.17 | 0.45 | U | 0.45 | 1.32 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | 0.33 | 0.97 | J | 0.38 | 1.47 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | 0.22 | 1.24 | J | 0.90 | 2.81 | ug/m3 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.16 | 1.23 | U | 1.23 | 3.83 | ug/m3 |
| 76-14-2 | Dichlorotetrafluoroethane | 0.090 | 0.63 | U | 0.63 | 3.49 | ug/m3 |
| 593-60-2 | Bromoethene | 0.12 | 0.52 | U | 0.52 | 2.19 | ug/m3 |
| 75-65-0 | tert-Butyl alcohol | 0.19 | 0.58 | U | 0.58 | 1.52 | ug/m3 |
| 142-82-5 | Heptane | 0.12 | 0.49 | J | 0.45 | 2.05 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | 23.4 | 57.5 | E | 0.17 | 1.23 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethene | 0.14 | 0.56 | U | 0.56 | 1.98 | ug/m3 |
| 67-64-1 | Acetone | 8.50 | 20.2 | | 0.57 | 1.19 | ug/m3 |
| 75-15-0 | Carbon Disulfide | 0.16 | 0.50 | U | 0.50 | 1.56 | ug/m3 |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.12 | 0.43 | U | 0.43 | 1.80 | ug/m3 |
| 75-09-2 | Methylene Chloride | 1.10 | 3.82 | | 0.66 | 1.74 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.19 | 0.75 | U | 0.75 | 1.98 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | 0.13 | 0.53 | U | 0.53 | 2.02 | ug/m3 |
| 110-82-7 | Cyclohexane | 0.22 | 0.76 | U | 0.76 | 1.72 | ug/m3 |
| 78-93-3 | 2-Butanone | 4.70 | 13.9 | | 0.35 | 1.47 | ug/m3 |
| 56-23-5 | Carbon Tetrachloride | 0.080 | 0.50 | | 0.060 | 0.19 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.090 | 0.36 | U | 0.36 | 1.98 | ug/m3 |
| 67-66-3 | Chloroform | 0.080 | 0.39 | U | 0.39 | 2.44 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.010 | 0.050 | U | 0.050 | 0.16 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | 0.10 | 0.47 | U | 0.47 | 2.34 | ug/m3 |
| 71-43-2 | Benzene | 0.29 | 0.93 | J | 0.29 | 1.60 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | 0.090 | 0.36 | U | 0.36 | 2.02 | ug/m3 |
| 79-01-6 | Trichloroethene | 0.020 | 0.11 | U | 0.11 | 0.16 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | 0.11 | 0.51 | U | 0.51 | 2.31 | ug/m3 |
| 75-27-4 | Bromodichloromethane | 0.080 | 0.54 | U | 0.54 | 3.35 | ug/m3 |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.090 | 0.37 | U | 0.37 | 2.05 | ug/m3 |
| 108-88-3 | Toluene | 0.48 | 1.81 | J | 0.41 | 1.88 | ug/m3 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B9-1-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-06 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042293.D | 1 | | 04/09/25 15:15 | VL040925 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.060 | 0.27 | U | 0.27 | 2.27 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.060 | 0.27 | U | 0.27 | 2.27 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.070 | 0.38 | U | 0.38 | 2.73 | ug/m3 |
| 124-48-1 | Dibromochloromethane | 0.070 | 0.60 | U | 0.60 | 4.26 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane | 0.070 | 0.54 | U | 0.54 | 0.77 | ug/m3 |
| 127-18-4 | Tetrachloroethene | 0.020 | 0.14 | U | 0.14 | 0.20 | ug/m3 |
| 108-90-7 | Chlorobenzene | 0.24 | 1.11 | J | 0.37 | 2.30 | ug/m3 |
| 100-41-4 | Ethyl Benzene | 0.12 | 0.52 | U | 0.52 | 2.17 | ug/m3 |
| 179601-23-1 | m/p-Xylene | 0.21 | 0.91 | U | 0.91 | 4.34 | ug/m3 |
| 95-47-6 | o-Xylene | 0.12 | 0.52 | U | 0.52 | 2.17 | ug/m3 |
| 100-42-5 | Styrene | 0.11 | 0.47 | U | 0.47 | 2.13 | ug/m3 |
| 75-25-2 | Bromoform | 0.060 | 0.62 | U | 0.62 | 5.17 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.010 | 0.070 | U | 0.070 | 0.21 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | 0.11 | 0.57 | U | 0.57 | 2.59 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.11 | 0.54 | U | 0.54 | 2.46 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.080 | 0.39 | U | 0.39 | 2.46 | ug/m3 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.080 | 0.48 | U | 0.48 | 3.01 | ug/m3 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.050 | 0.30 | U | 0.30 | 3.01 | ug/m3 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.080 | 0.48 | U | 0.48 | 3.01 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.090 | 0.67 | U | 0.67 | 3.71 | ug/m3 |
| 87-68-3 | Hexachloro-1,3-Butadiene | 0.090 | 0.96 | U | 0.96 | 5.33 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | 0.13 | 0.29 | U | 0.29 | 1.11 | ug/m3 |
| 91-20-3 | Naphthalene | 0.080 | 0.42 | U | 0.42 | 0.52 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | 0.12 | 0.59 | U | 0.59 | 2.46 | ug/m3 |
| 110-54-3 | Hexane | 2.00 | 7.05 | | 0.39 | 1.76 | ug/m3 |
| 107-05-1 | Allyl Chloride | 0.15 | 0.47 | U | 0.47 | 1.57 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | 0.21 | 0.76 | U | 0.76 | 1.80 | ug/m3 |
| 80-62-6 | Methyl Methacrylate | 0.090 | 0.37 | U | 0.37 | 2.05 | ug/m3 |
| **SURROGATES** | | | | | | | |
| 460-00-4 | 1-Bromo-4-Fluorobenzene | 9.40 | | | 70 (65) - 130 (135) | 94% | SPK: 10 |
| **INTERNAL STANDARDS** | | | | | | | |
| 74-97-5 | Bromochloromethane | 162000 | | 2.784 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 395000 | | 3.952 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 339000 | | 8.875 | | | |
| **TENTITIVE IDENTIFIED COMPOUNDS** | | | | | | | |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B9-1-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-06 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042293.D | 1 | | 04/09/25 15:15 | VL040925 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 75-45-6 | Chlorodifluoromethane | 0.90 | | J | | 1.47 | ppbv |
| 115-07-1 | Propene | 2.20 | | J | | 1.49 | ppbv |
| 000106-97-8 | Butane | 1.30 | | J | | 1.62 | ppbv |
| 000100-52-7 | Benzaldehyde | 6.60 | | J | | 10.8 | ppbv |
| 000080-56-8 | .alpha.-Pinene | 1.70 | | J | | 10.9 | ppbv |

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042293.D
Acq On : 09 Apr 2025 15:15
Operator : SY/MD
Sample : Q1665-06
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 01:45:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-1-3242025

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 2.784 | 49 | 162172 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.952 | 114 | 394727 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.875 | 117 | 338809 | 10.000 | ppbv | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.370 | 95 | 260496 | 9.362 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 93.600% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.496 | 85 | 8768 | 0.366 | ppbv | | 100 |
| 3) Chlorodifluoromethane | 1.473 | 51 | 21947m | 0.897 | ppbv | | |
| 4) Chloromethane | 1.531 | 50 | 5713 | 0.584 | ppbv | | 94 |
| 9) Propene | 1.486 | 41 | 24421m | 2.178 | ppbv | | |
| 10) Heptane | 4.975 | 43 | 3638m | 0.122 | ppbv | | |
| 11) Trichlorofluoromethane | 1.874 | 101 | 5120 | 0.220 | ppbv | | 94 |
| 13) Ethanol | 1.719 | 45 | 40099 | 37.833 | ppbv | | 81 |
| 15) Acetone | 1.832 | 43 | 192031 | 8.467 | ppbv | | 94 |
| 19) Isopropyl Alcohol | 1.884 | 45 | 298845 | 23.353 | ppbv | # | 32 |
| 20) Methylene Chloride | 2.059 | 84 | 9248 | 1.095 | ppbv | | 97 |
| 26) Hexane | 2.823 | 57 | 46406 | 2.041 | ppbv | # | 35 |
| 34) 2-Butanone | 2.554 | 43 | 134955 | 4.715 | ppbv | | 98 |
| 35) Carbon Tetrachloride | 3.758 | 117 | 2420m | 0.078 | ppbv | | |
| 36) Benzene | 3.651 | 78 | 11524 | 0.294 | ppbv | # | 90 |
| 41) Tetrahydrofuran | 3.062 | 42 | 5513m | 0.334 | ppbv | | |
| 53) Toluene | 6.930 | 91 | 22070 | 0.476 | ppbv | | 98 |
| 57) Chlorobenzene | 8.914 | 112 | 7743 | 0.241 | ppbv | # | 83 |
| 59) m/p-Xylene | 9.529 | 91 | 8935 | 0.186 | ppbv | | 95 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042293.D
Acq On : 09 Apr 2025 15:15
Operator : SY/MD
Sample : Q1665-06
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 01:45:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-1-3242025

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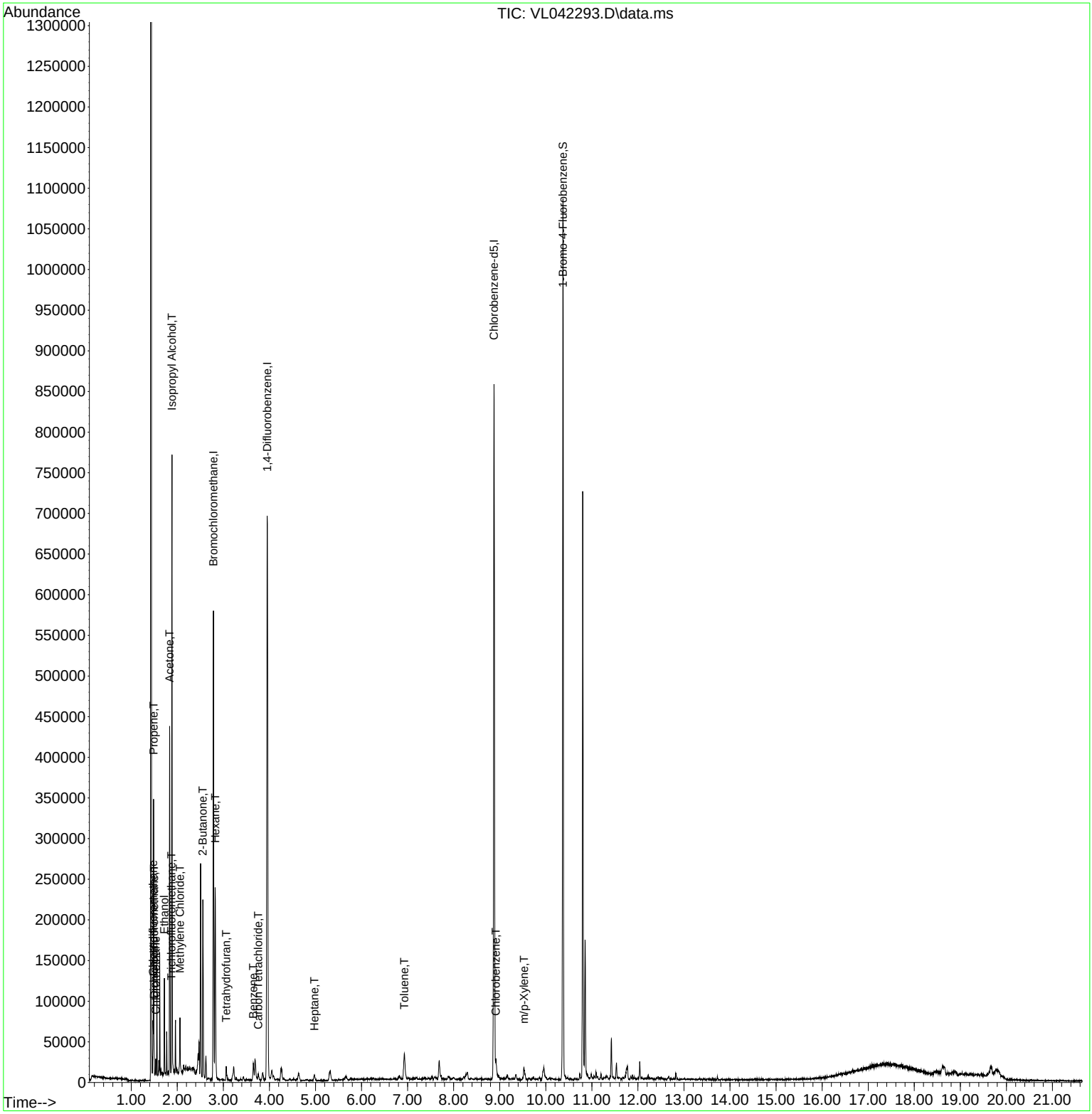
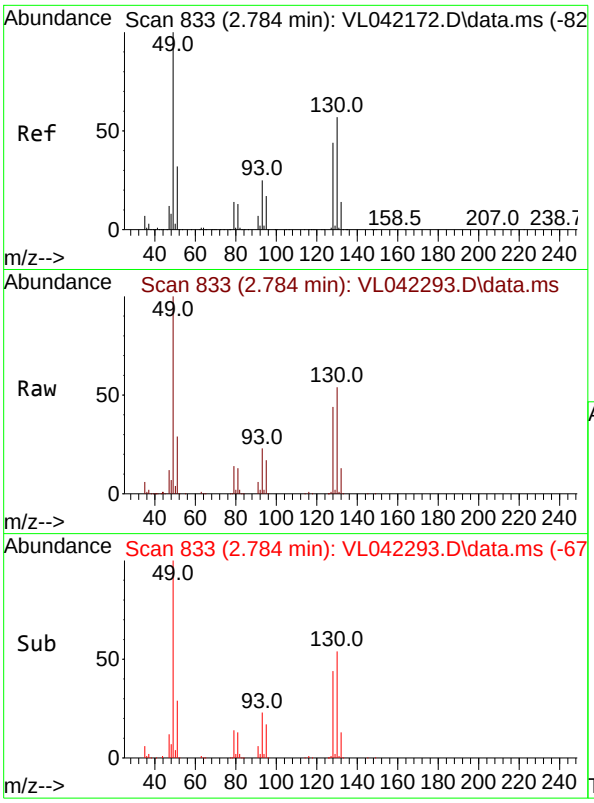
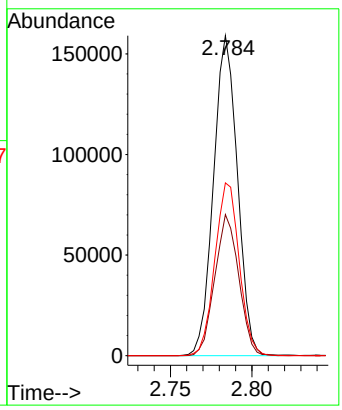





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion: 49 Resp: 16217

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 44.1 | 22.9 | 68.5 |
| 130 | 55.0 | 28.8 | 86.4 |

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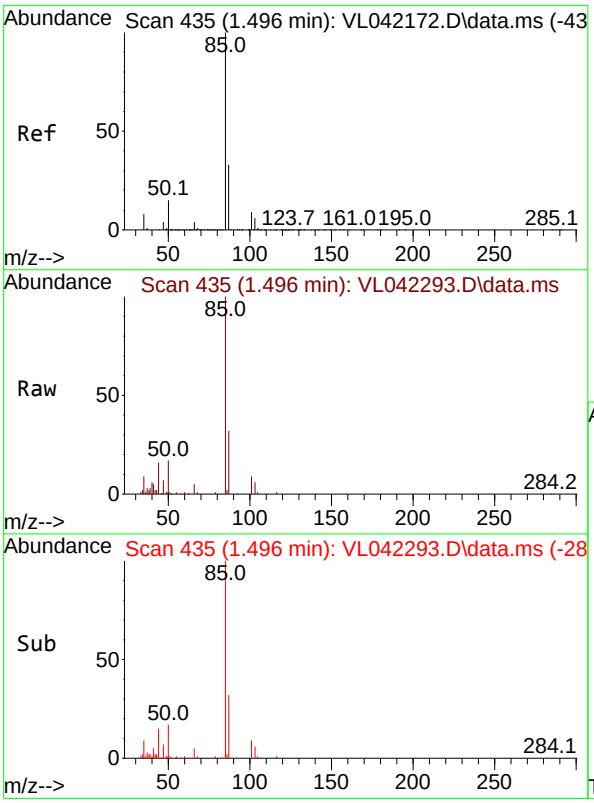
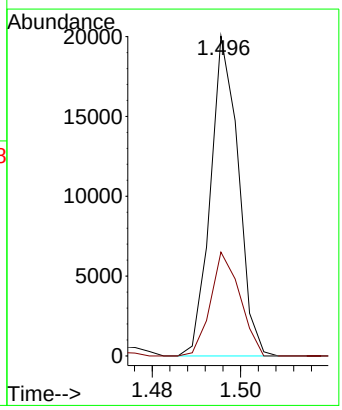
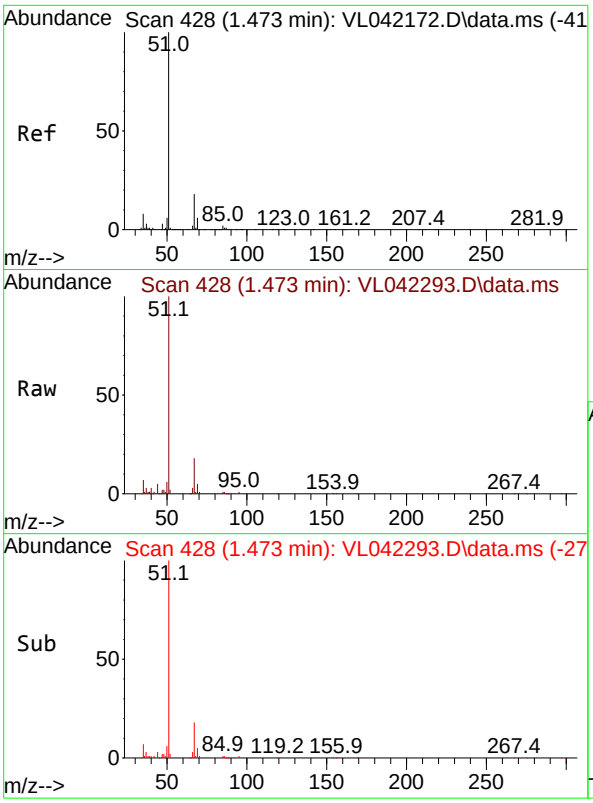



#2
Dichlorodifluoromethane
Concen: 0.366 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion: 85 Resp: 8768

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.5 | 26.1 | 39.1 |

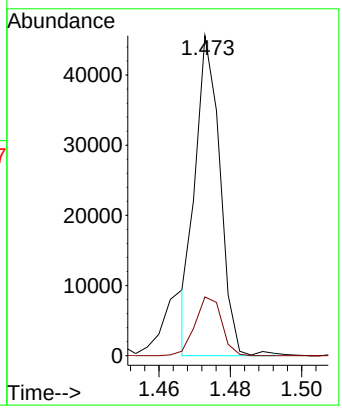





#3
Chlorodifluoromethane
Concen: 0.897 ppbv m
RT: 1.473 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion: 51 Resp: 2194

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 19.8 | 15.0 | 22.6 |

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**ClientSampleId :**
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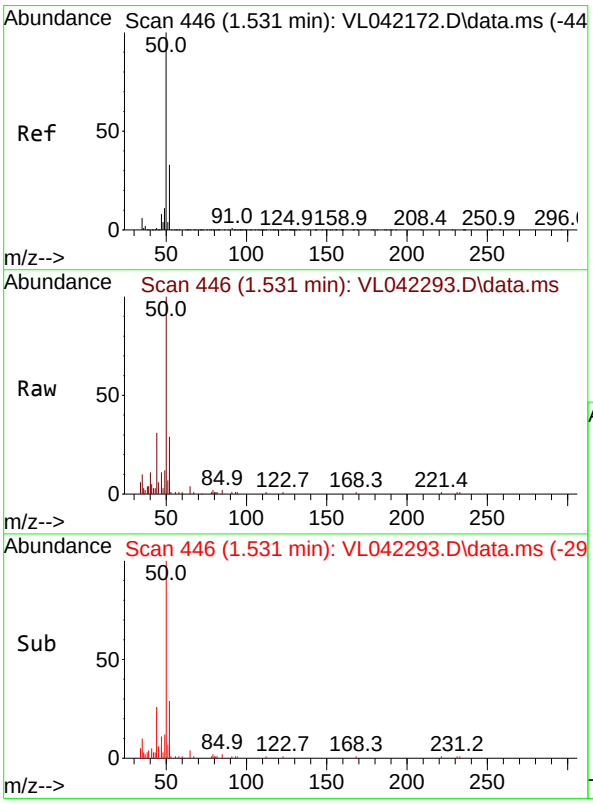
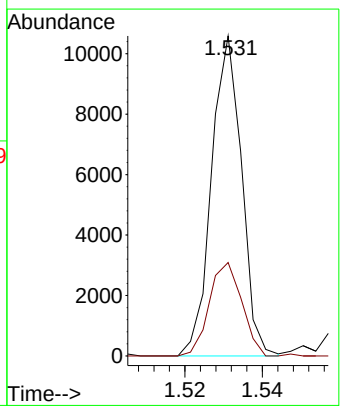
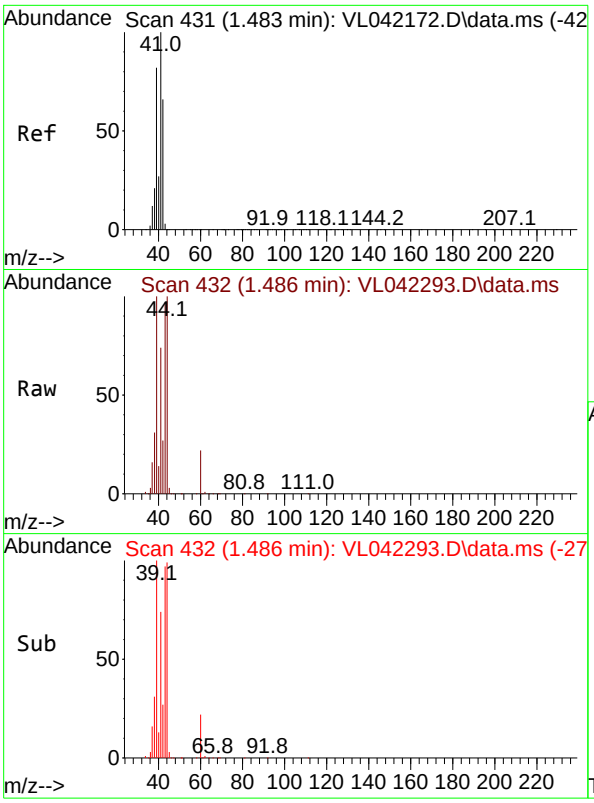



#4
Chloromethane
Concen: 0.584 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion: 50 Resp: 5713

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 29.2 | 26.1 | 39.1 |

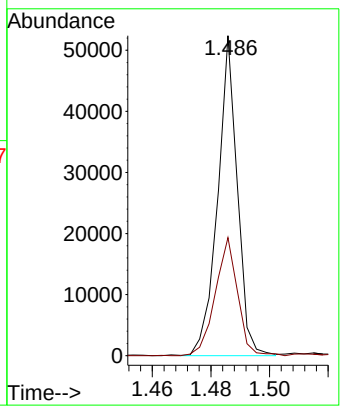





#9
Propene
Concen: 2.178 ppbv m
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion: 41 Resp: 2442

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 76.6 | 55.4 | 83.2 |

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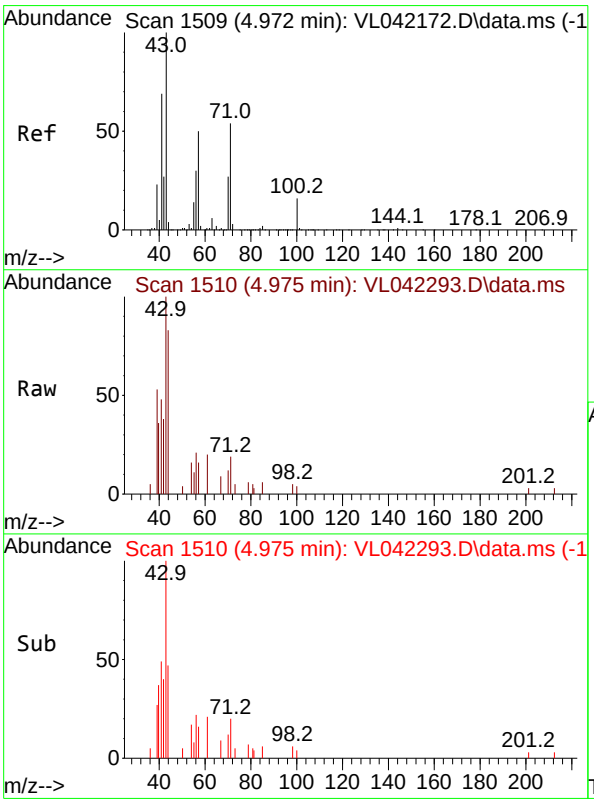
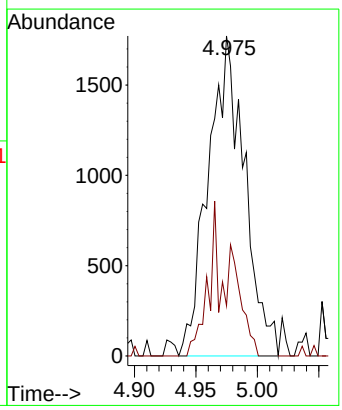
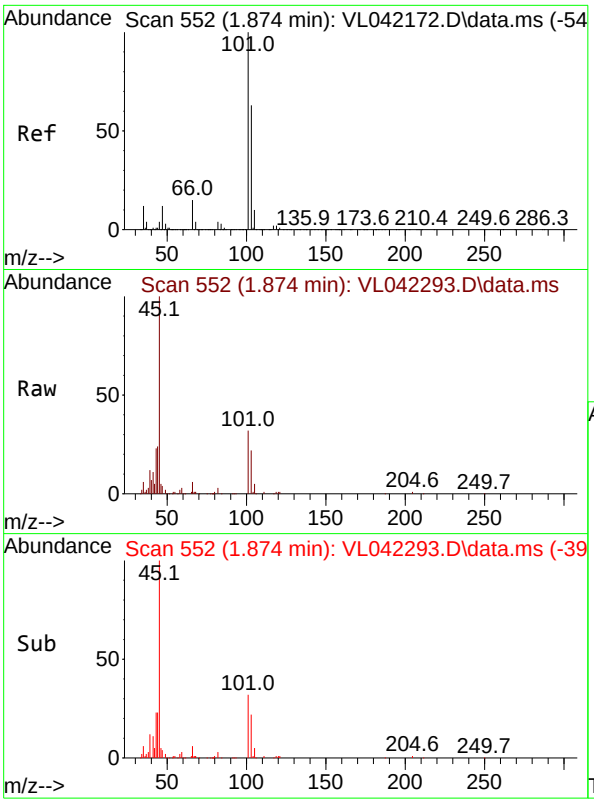



#10
Heptane
Concen: 0.122 ppbv m
RT: 4.975 min Scan# 1510
Delta R.T. 0.003 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion: 43 Resp: 3638

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 0.0 | 39.4 | 59.2# |

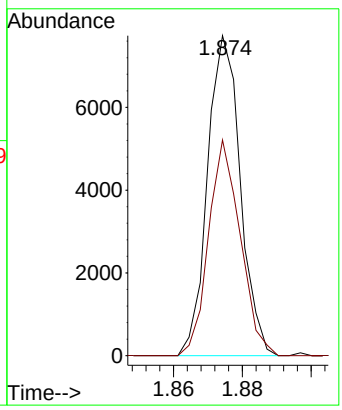





#11
Trichlorofluoromethane
Concen: 0.220 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion:101 Resp: 512

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 67.4 | 50.2 | 75.2 |

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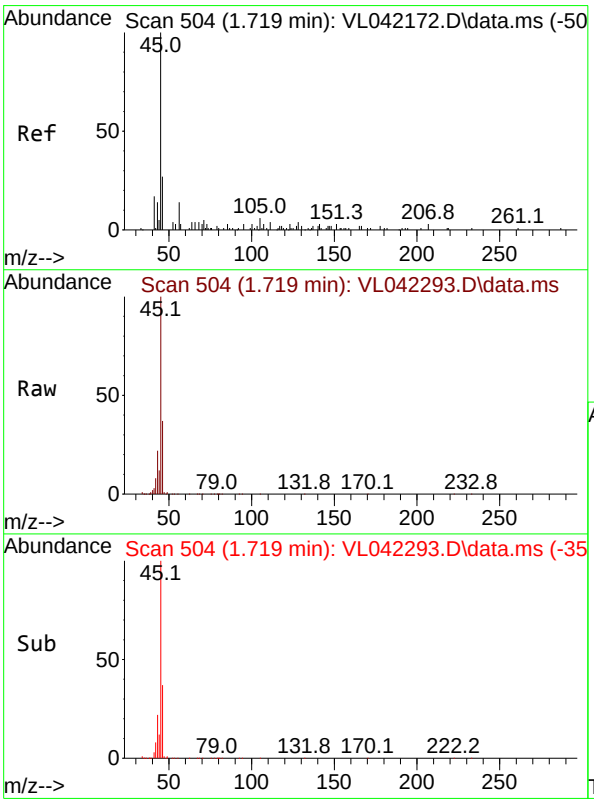
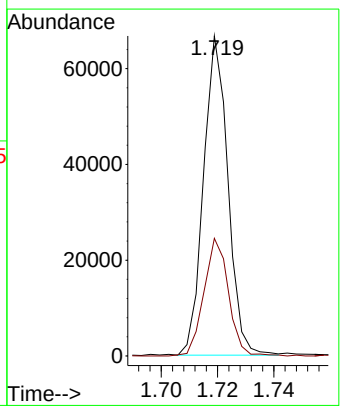
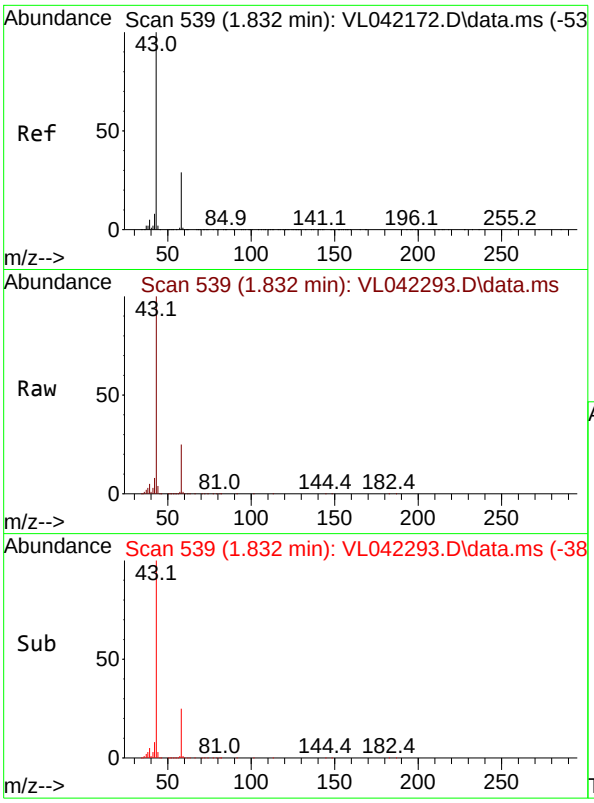



#13
Ethanol
Concen: 37.833 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion: 45 Resp: 40099

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 37.4 | 20.2 | 80.8 |

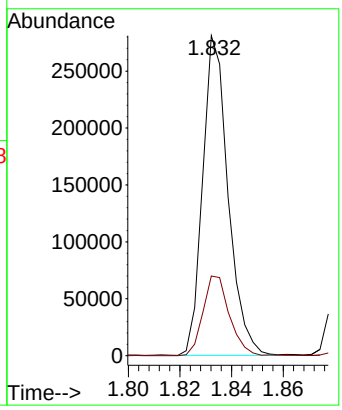





#15
Acetone
Concen: 8.467 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion: 43 Resp: 19203

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 26.1 | 23.2 | 34.8 |

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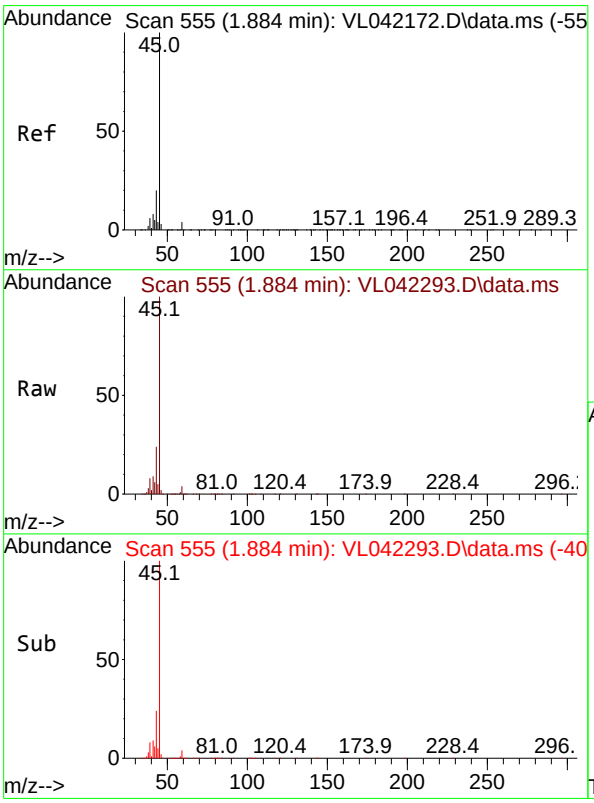
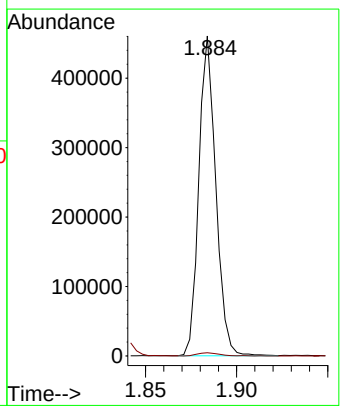
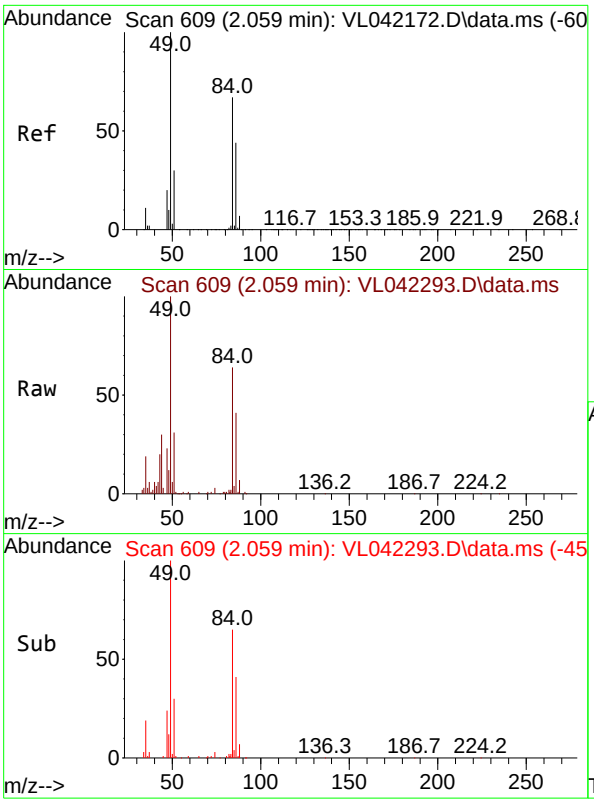



#19
Isopropyl Alcohol
Concen: 23.353 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion: 45 Resp: 298845

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 1.3 | 36.9 | 55.3# |

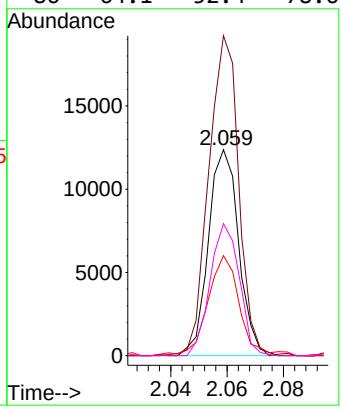





#20
Methylene Chloride
Concen: 1.095 ppbv
RT: 2.059 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion: 84 Resp: 924

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 154.7 | 120.2 | 180.4 |
| 51 | 47.8 | 37.4 | 56.0 |
| 86 | 64.1 | 52.4 | 78.6 |

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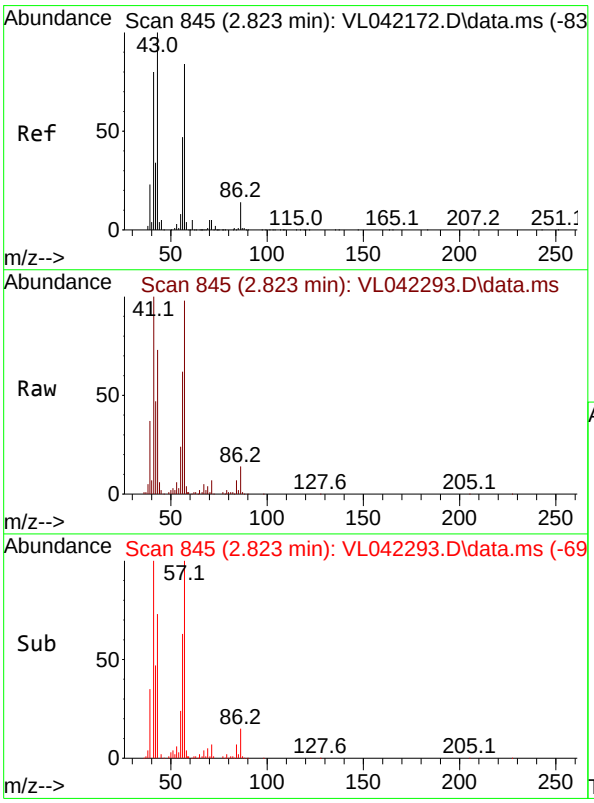
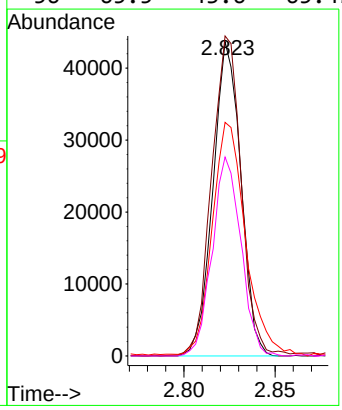
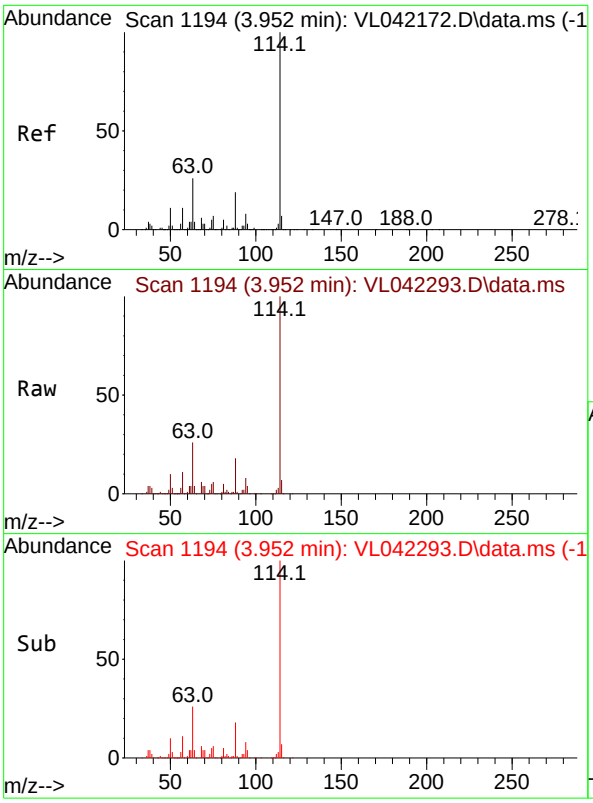



#26
Hexane
Concen: 2.041 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion: 57 Resp: 46406

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 108.6 | 76.6 | 114.8 |
| 43 | 89.9 | 207.8 | 311.8# |
| 56 | 65.5 | 43.6 | 65.4# |






#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion:114 Resp: 39472

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.3 | 20.7 | 31.1 |
| 88 | 17.6 | 15.0 | 22.4 |

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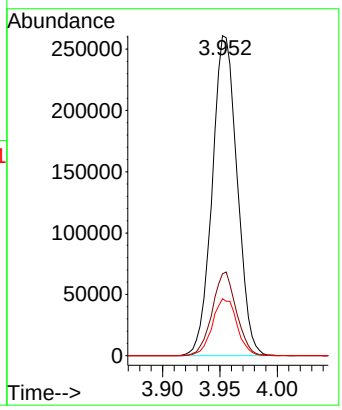
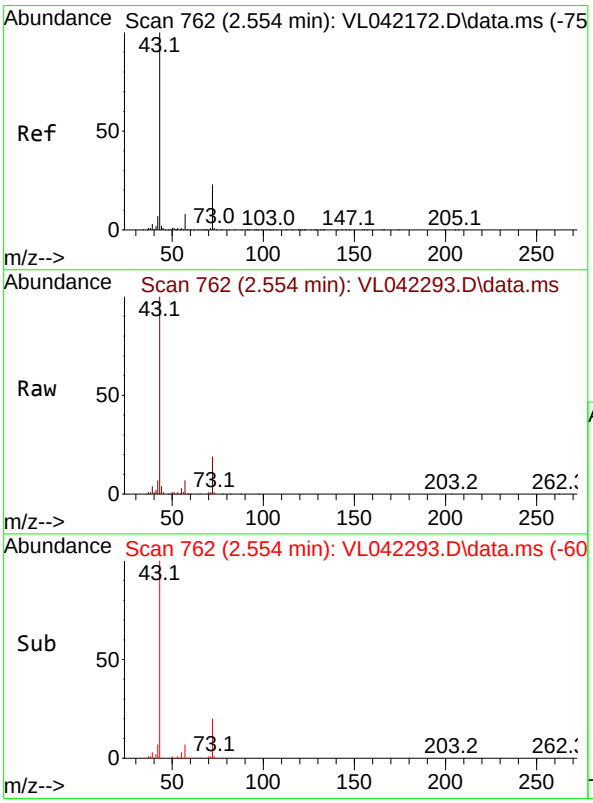
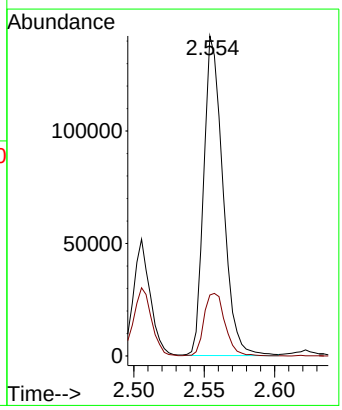


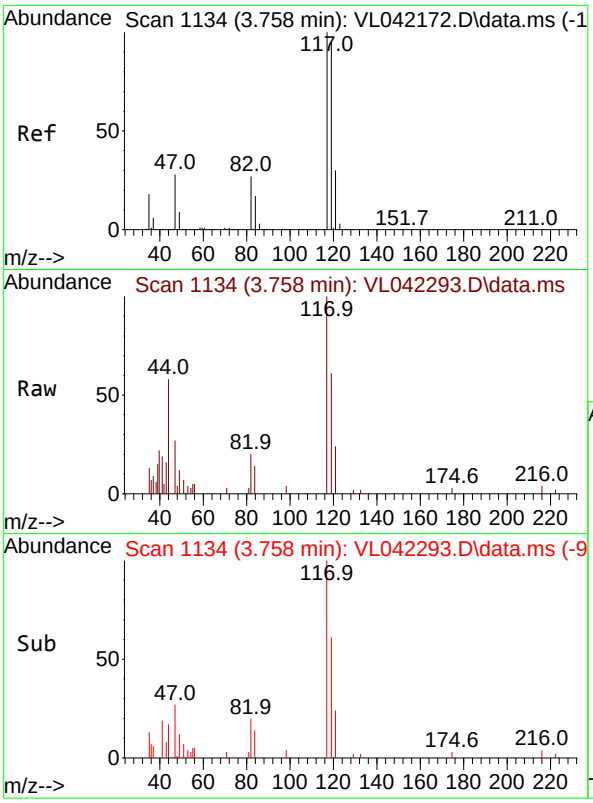




#34
2-Butanone
Concen: 4.715 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion: 43 Resp: 134955

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 21.5 | 18.2 | 27.2 |

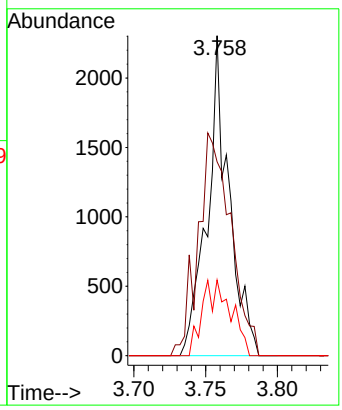





#35
Carbon Tetrachloride
Concen: 0.078 ppbv m
RT: 3.758 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion:117 Resp: 242

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 60.6 | 76.2 | 114.2# |
| 121 | 23.6 | 24.2 | 36.4# |

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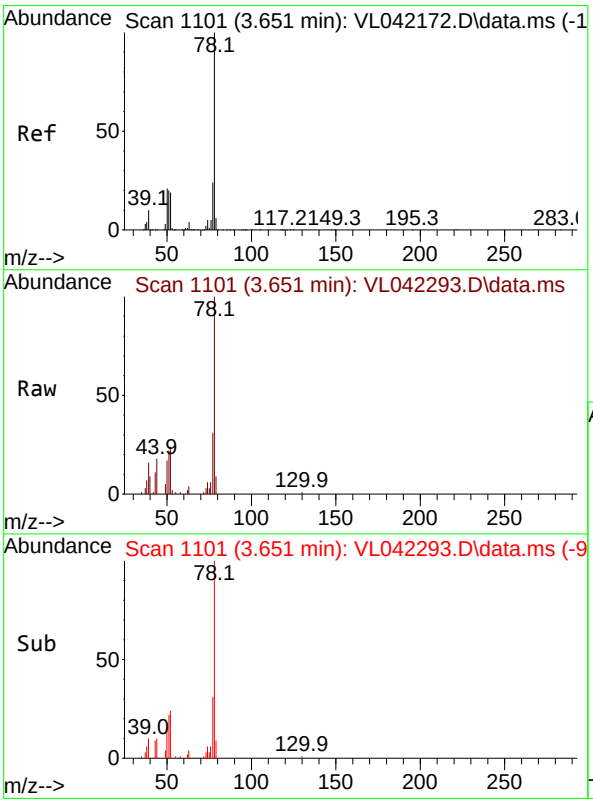
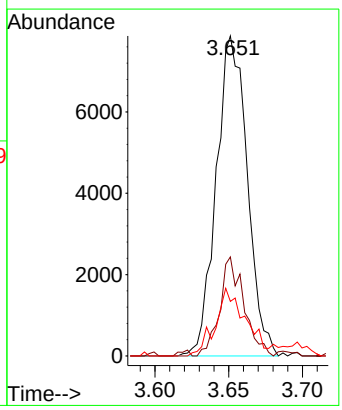
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

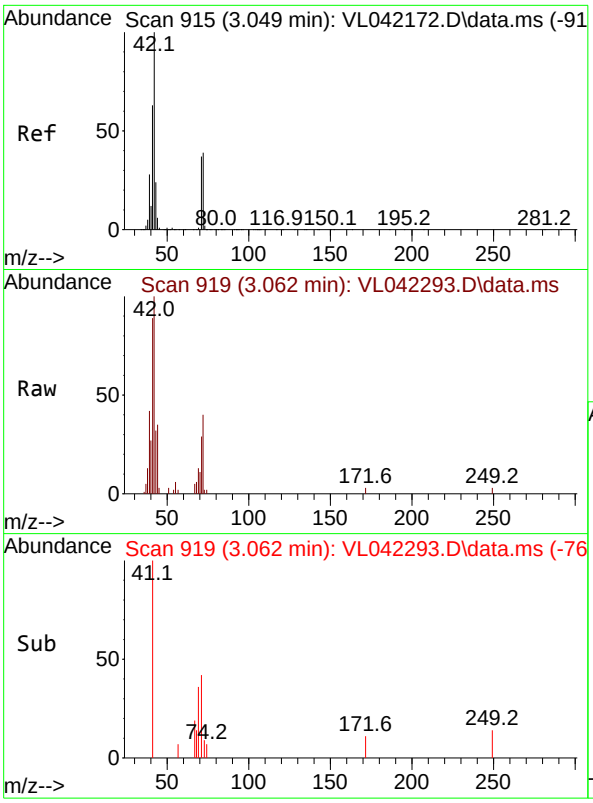



#36
Benzene
Concen: 0.294 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion: 78 Resp: 11524

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 29.8 | 19.1 | 28.7# |
| 50 | 17.1 | 16.6 | 24.8 |

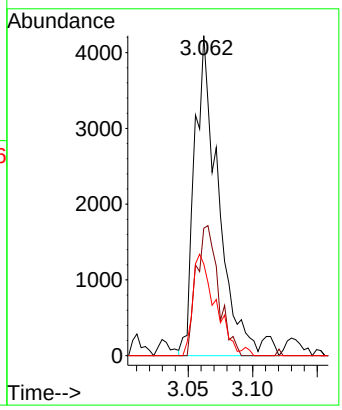





#41
Tetrahydrofuran
Concen: 0.334 ppbv m
RT: 3.062 min Scan# 91
Delta R.T. 0.013 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion: 42 Resp: 551

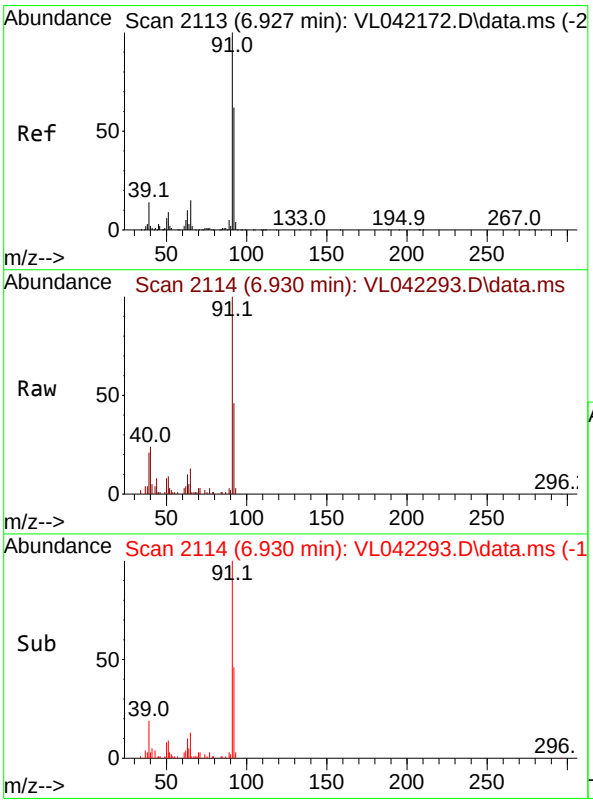
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 37.1 | 31.4 | 47.0 |
| 71 | 30.0 | 30.2 | 45.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-1-3242025

**Manual Integrations**
**APPROVED**

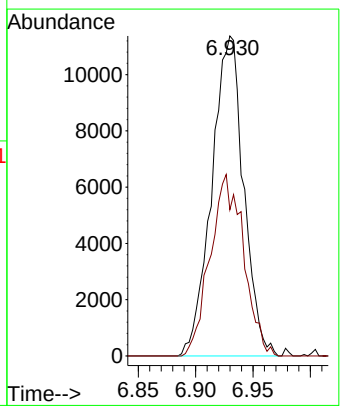
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

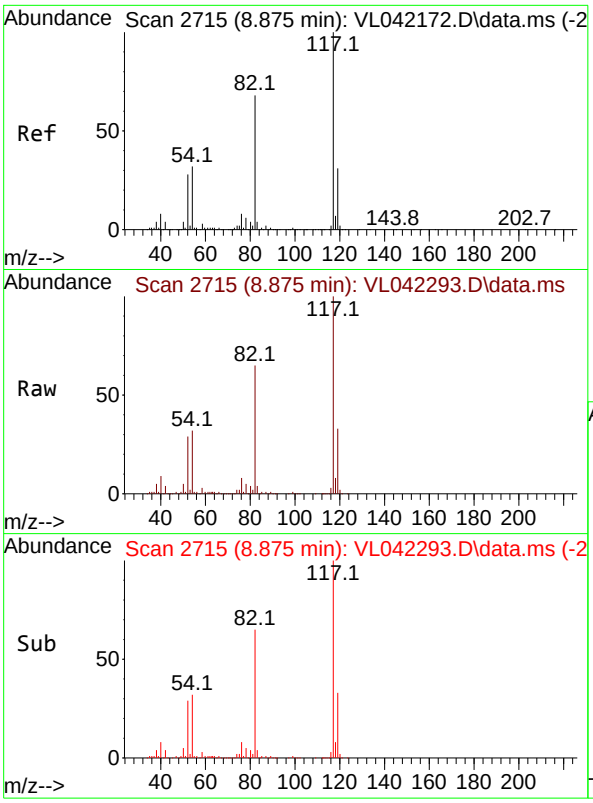



#53
Toluene
Concen: 0.476 ppbv
RT: 6.930 min Scan# 2114
Delta R.T. 0.003 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion: 91 Resp: 22070

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 59.2 | 48.4 | 72.6 |

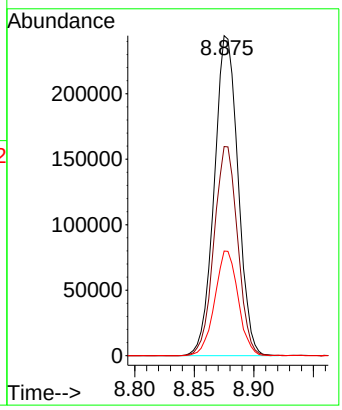





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion:117 Resp: 338809

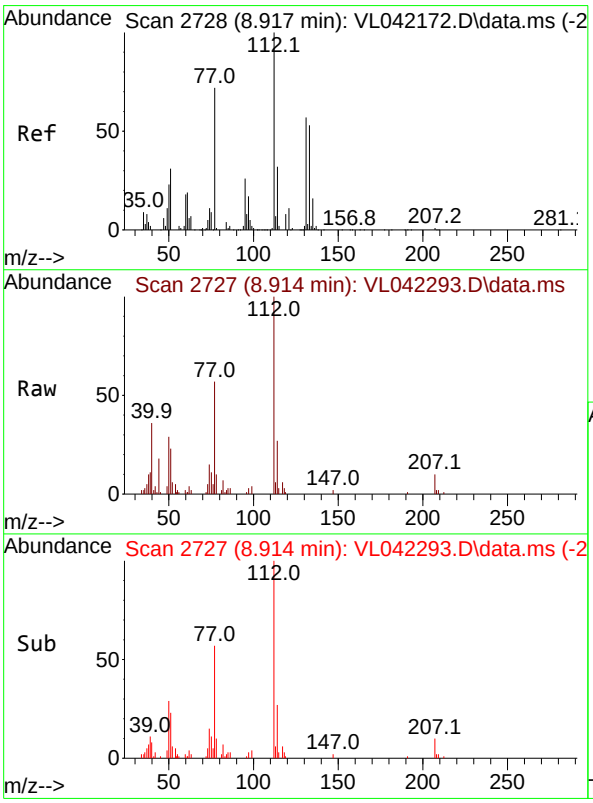
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 65.0 | 55.8 | 83.6 |
| 119 | 32.2 | 25.5 | 38.3 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-1-3242025

**Manual Integrations**
**APPROVED**

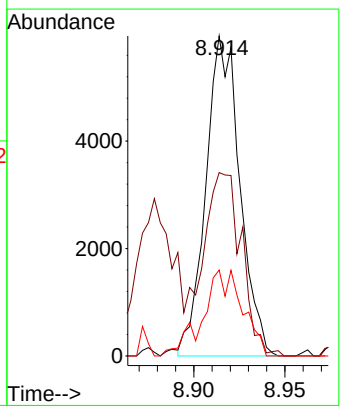
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

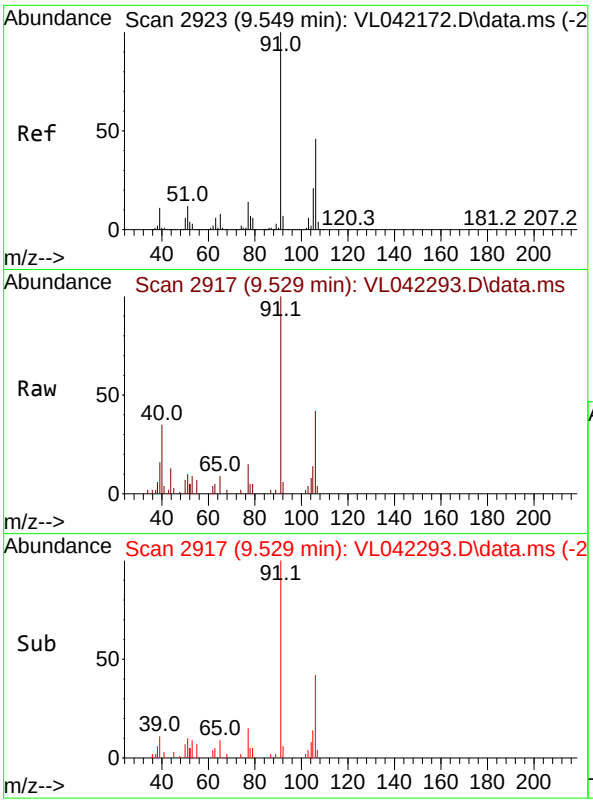



#57
Chlorobenzene
Concen: 0.241 ppbv
RT: 8.914 min Scan# 2727
Delta R.T. -0.003 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion:112 Resp: 7743

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 55.6 | 58.2 | 87.2# |
| 114 | 26.9 | 29.1 | 35.5# |






#59
m/p-Xylene
Concen: 0.186 ppbv
RT: 9.529 min Scan# 2
Delta R.T. -0.020 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

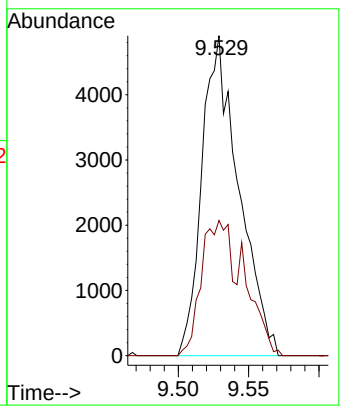
Tgt Ion: 91 Resp: 893

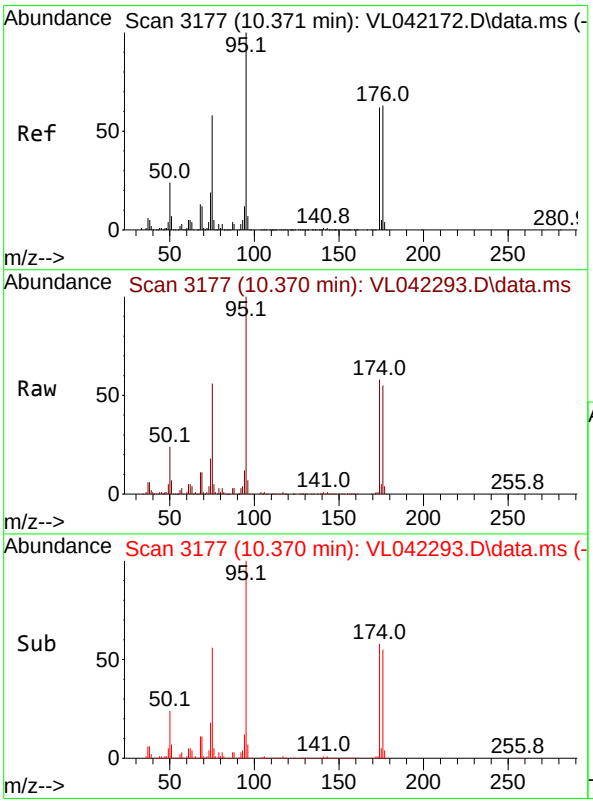
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 48.6 | 36.4 | 54.6 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-1-3242025

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

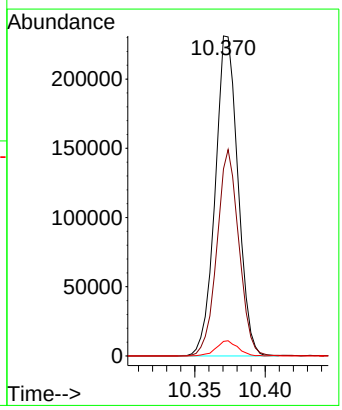



#68
1-Bromo-4-Fluorobenzene
Concen: 9.362 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion: 95 Resp: 260496

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 62.4 | 50.6 | 76.0 |
| 175 | 4.6 | 3.8 | 5.6 |



LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042293.D
Acq On : 09 Apr 2025 15:15
Operator : SY/MD
Sample : Q1665-06
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-1-3242025

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

Signal : TIC: VL042293.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.428 | 409 | 414 | 420 | rBV | 4017627 | 4259013 | 100.00% | 36.952% |
| 2 | 1.473 | 423 | 428 | 430 | rBV | 65327 | 47061 | 1.10% | 0.408% |
| 3 | 1.486 | 430 | 432 | 435 | rVB | 301256 | 120629 | 2.83% | 1.047% |
| 4 | 1.557 | 449 | 454 | 458 | rBV2 | 147440 | 77747 | 1.83% | 0.675% |
| 5 | 1.619 | 470 | 473 | 477 | rVB | 151441 | 76764 | 1.80% | 0.666% |
| 6 | 1.719 | 500 | 504 | 509 | rBV | 117390 | 70063 | 1.65% | 0.608% |
| 7 | 1.832 | 535 | 539 | 547 | rBV | 427013 | 342294 | 8.04% | 2.970% |
| 8 | 1.884 | 547 | 555 | 567 | rVV | 760467 | 514963 | 12.09% | 4.468% |
| 9 | 1.962 | 575 | 579 | 584 | rVB | 64942 | 43543 | 1.02% | 0.378% |
| 10 | 2.059 | 600 | 609 | 620 | rBV3 | 67970 | 63176 | 1.48% | 0.548% |
| 11 | 2.505 | 741 | 747 | 756 | rVB2 | 262854 | 238162 | 5.59% | 2.066% |
| 12 | 2.554 | 756 | 762 | 774 | rVB | 219238 | 210809 | 4.95% | 1.829% |
| 13 | 2.784 | 824 | 833 | 840 | rBV | 577319 | 600058 | 14.09% | 5.206% |
| 14 | 2.823 | 840 | 845 | 856 | rVB2 | 234561 | 264482 | 6.21% | 2.295% |
| 15 | 3.952 | 1181 | 1194 | 1206 | rBV | 693894 | 1051476 | 24.69% | 9.123% |
| 16 | 6.930 | 2100 | 2114 | 2129 | rBV2 | 32120 | 73043 | 1.72% | 0.634% |
| 17 | 8.875 | 2702 | 2715 | 2725 | rBV | 854795 | 1196039 | 28.08% | 10.377% |
| 18 | 10.374 | 3164 | 3178 | 3191 | rBV | 1083409 | 1235983 | 29.02% | 10.724% |
| 19 | 10.801 | 3297 | 3310 | 3320 | rBV | 722340 | 786914 | 18.48% | 6.827% |
| 20 | 10.853 | 3320 | 3326 | 3335 | rVB | 165665 | 197699 | 4.64% | 1.715% |
| 21 | 11.422 | 3496 | 3502 | 3512 | rVB4 | 47525 | 55874 | 1.31% | 0.485% |

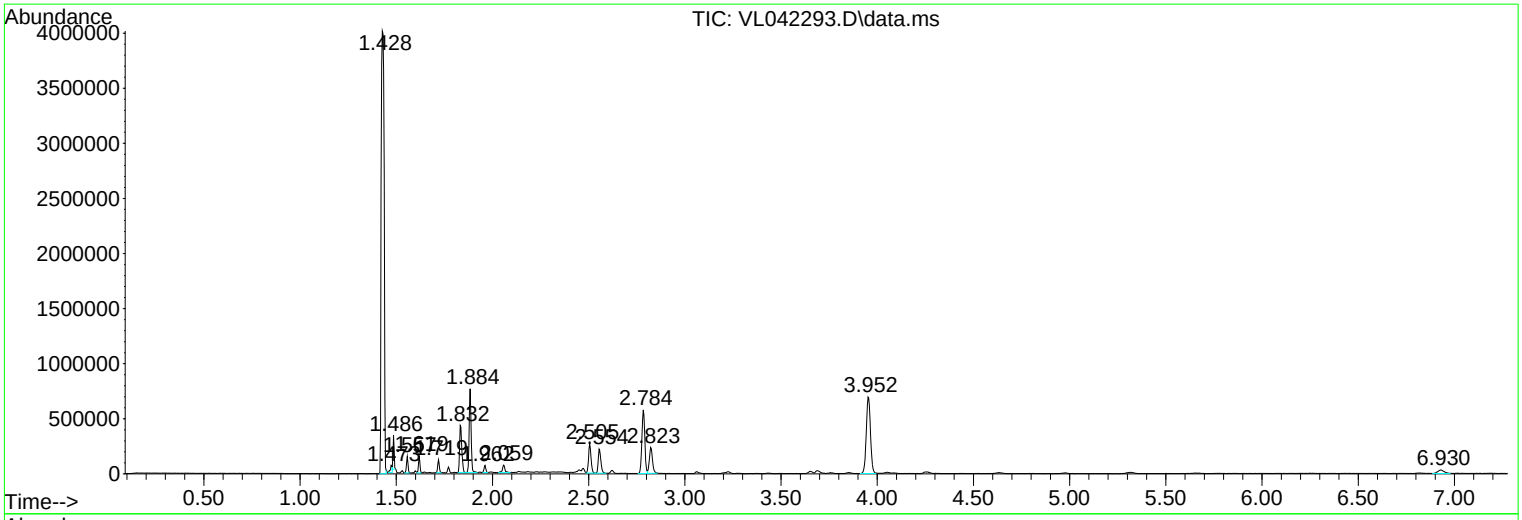
Sum of corrected areas: 11525792

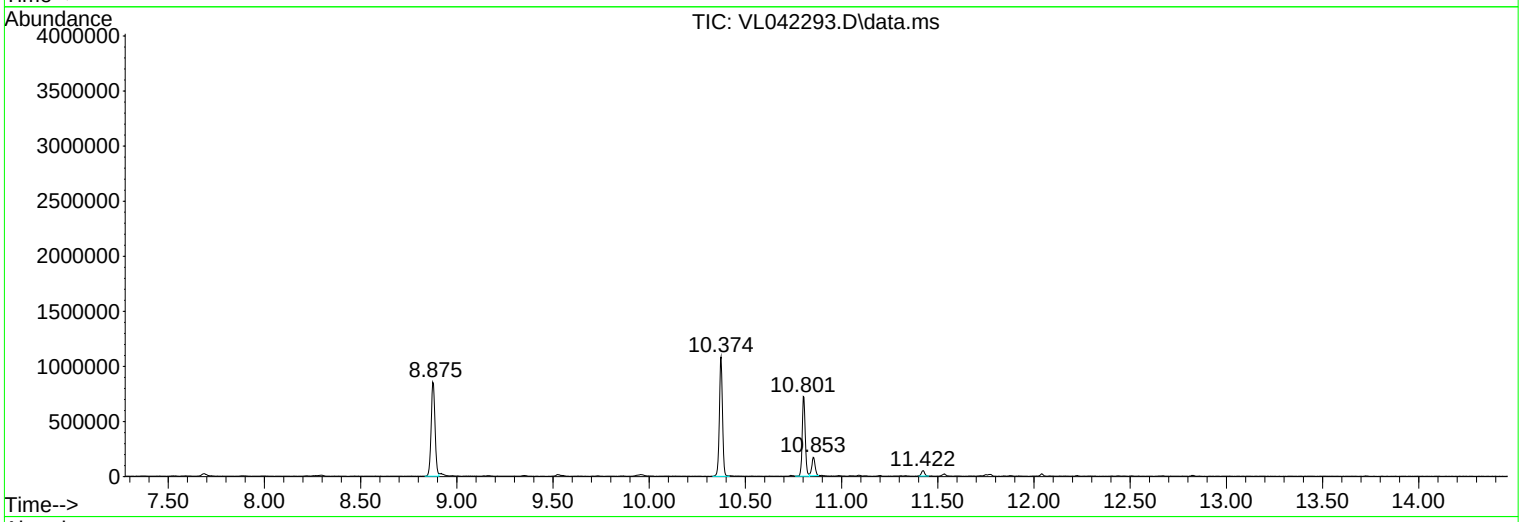
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042293.D
Acq On : 09 Apr 2025 15:15
Operator : SY/MD
Sample : Q1665-06
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

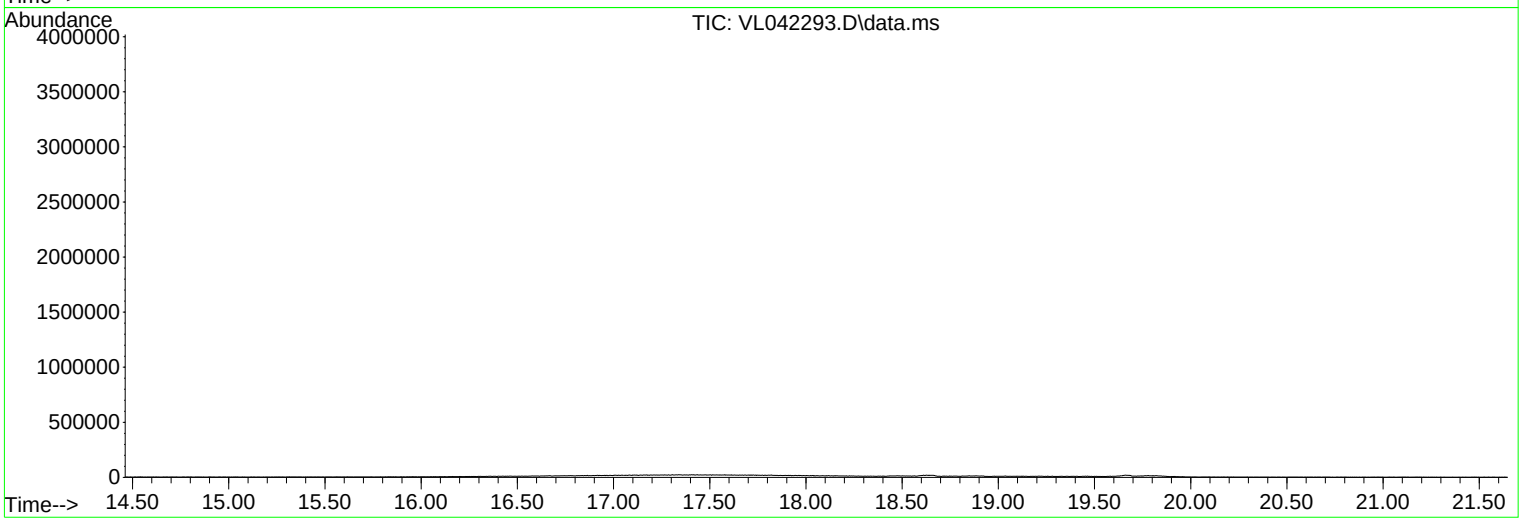
**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-1-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042293.D
Acq On : 09 Apr 2025 15:15
Operator : SY/MD
Sample : Q1665-06
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-1-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

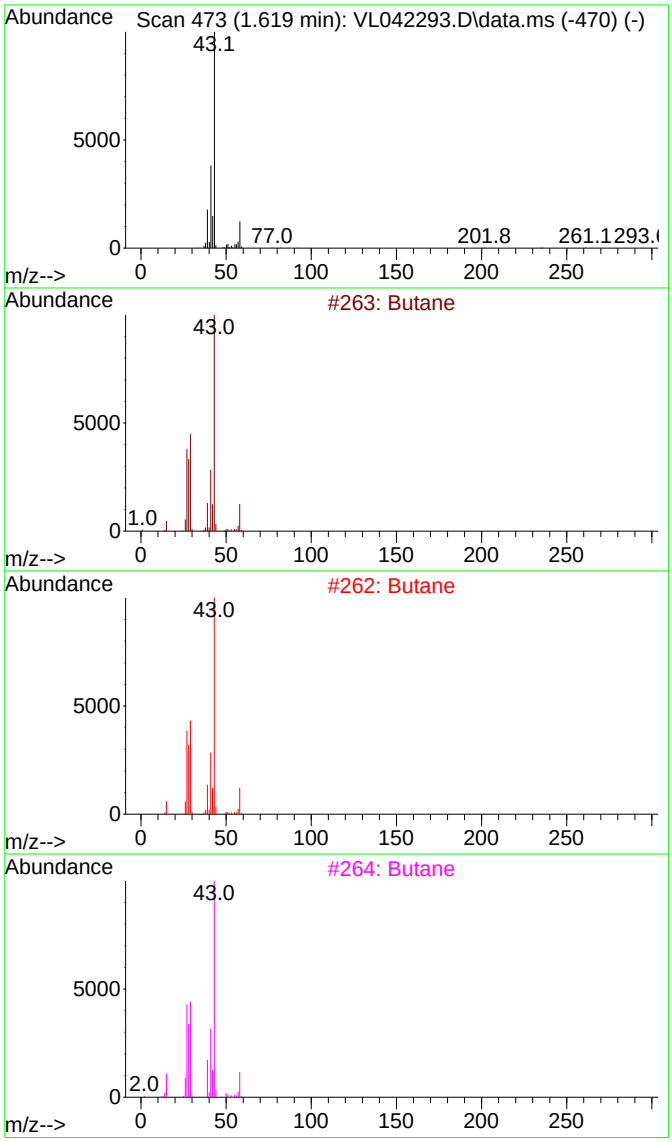
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

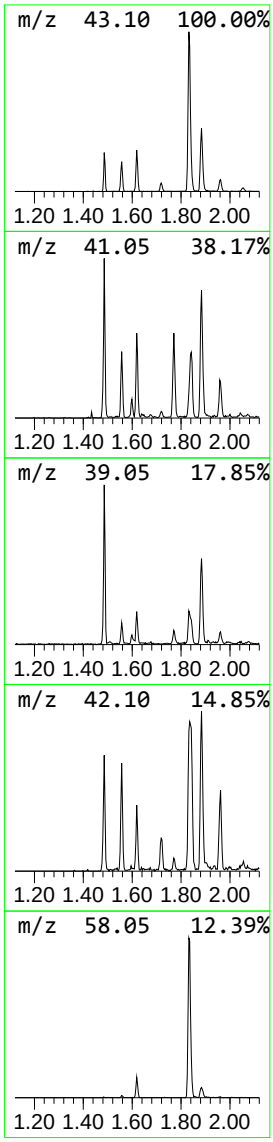
**********

Peak Number 1 Butane Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.619 | 1.28 ppbv | 76764 | Bromochloromethane | 2.784 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane | 58 | C4H10 | 000106-97-8 | 72 |
| 2 | Butane | 58 | C4H10 | 000106-97-8 | 72 |
| 3 | Butane | 58 | C4H10 | 000106-97-8 | 72 |
| 4 | Butane | 58 | C4H10 | 000106-97-8 | 59 |
| 5 | Acetone | 58 | C3H6O | 000067-64-1 | 5 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042293.D
Acq On : 09 Apr 2025 15:15
Operator : SY/MD
Sample : Q1665-06
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-1-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

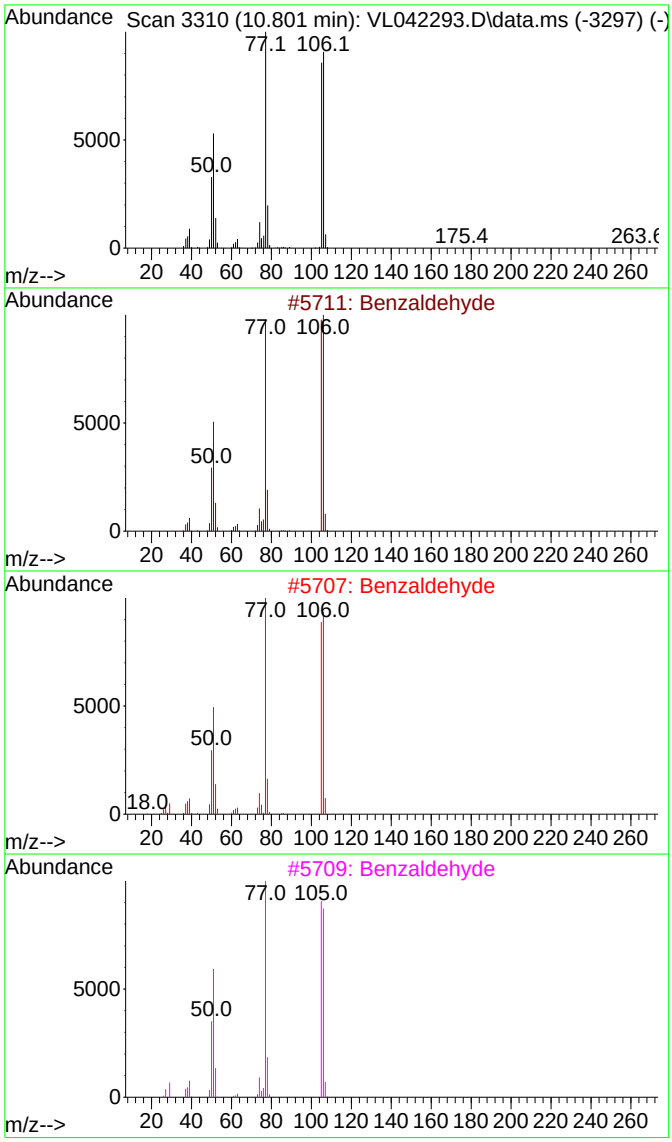
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

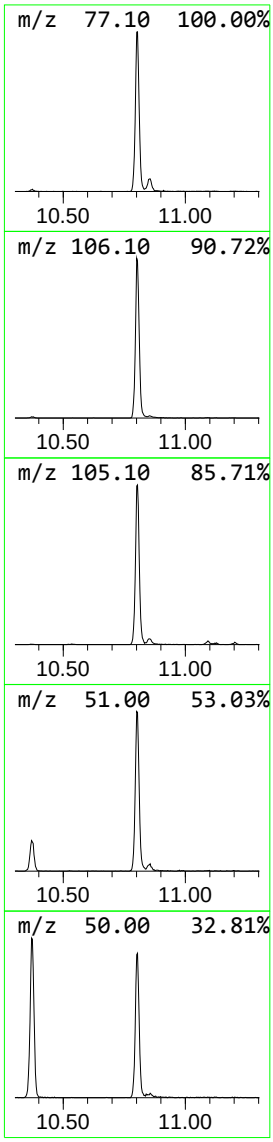
**********

Peak Number 2 Benzaldehyde Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.801 | 6.58 ppbv | 786914 | Chlorobenzene-d5 | 8.875 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzaldehyde | 106 | C7H6O | 000100-52-7 | 97 |
| 2 | Benzaldehyde | 106 | C7H6O | 000100-52-7 | 96 |
| 3 | Benzaldehyde | 106 | C7H6O | 000100-52-7 | 96 |
| 4 | Benzaldehyde | 106 | C7H6O | 000100-52-7 | 95 |
| 5 | Benzaldehyde | 106 | C7H6O | 000100-52-7 | 91 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042293.D
Acq On : 09 Apr 2025 15:15
Operator : SY/MD
Sample : Q1665-06
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-1-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

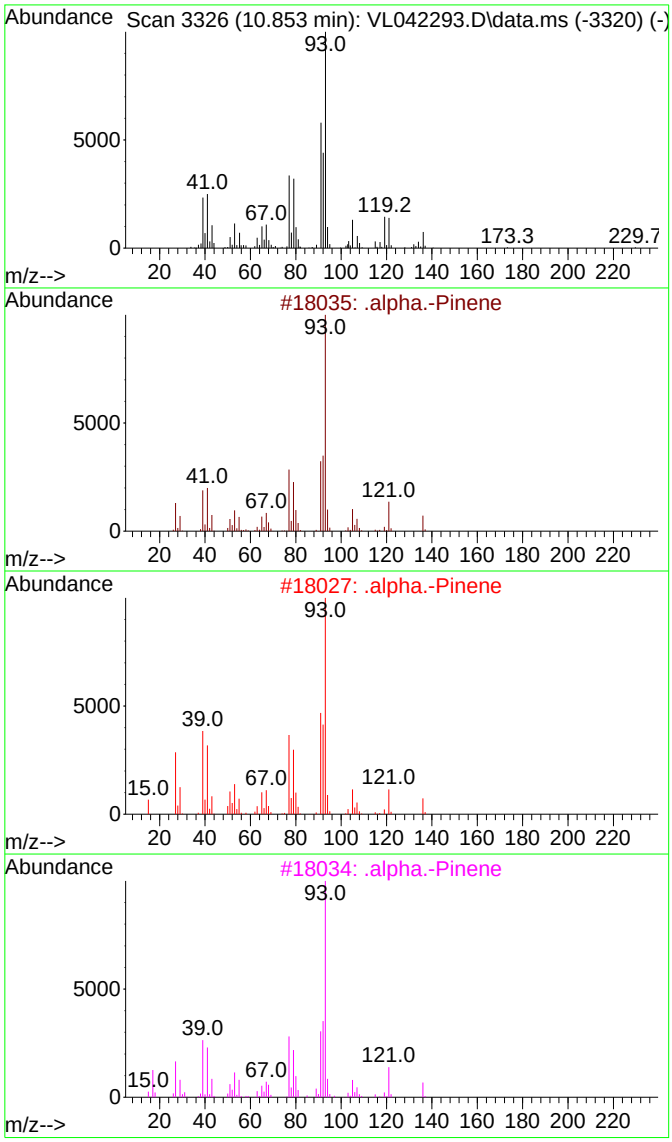
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

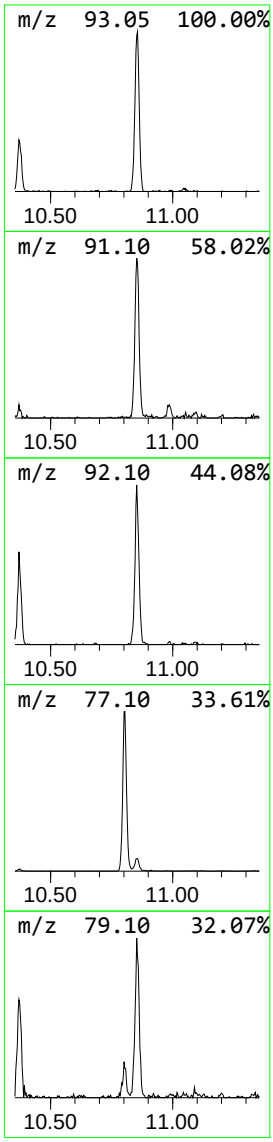
**********

Peak Number 3 .alpha.-Pinene Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.853 | 1.65 ppbv | 197699 | Chlorobenzene-d5 | 8.875 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | .alpha.-Pinene | 136 | C10H16 | 000080-56-8 | 97 |
| 2 | .alpha.-Pinene | 136 | C10H16 | 000080-56-8 | 93 |
| 3 | .alpha.-Pinene | 136 | C10H16 | 000080-56-8 | 91 |
| 4 | (1R)-2,6,6-Trimethylbicyclo[3.1.... | 136 | C10H16 | 007785-70-8 | 90 |
| 5 | Tricyclo[2.2.1.0(2,6)]heptane, 1... | 136 | C10H16 | 000488-97-1 | 87 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042293.D
Acq On : 09 Apr 2025 15:15
Operator : SY/MD
Sample : Q1665-06
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-1-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Butane | 1.619 | 1.3 | ppbv | 76764 | 1 | 2.784 | 600058 | 10.0 |
| Benzaldehyde | 10.801 | 6.6 | ppbv | 786914 | 3 | 8.875 | 1196040 | 10.0 |
| .alpha.-Pinene | 10.853 | 1.6 | ppbv | 197699 | 3 | 8.875 | 1196040 | 10.0 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-DUP-1-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-07 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042420.D | 1 | | 04/28/25 11:33 | VL042825 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.43 | 2.13 | J | 1.04 | 2.47 | ug/m3 |
| 64-17-5 | Ethanol | 270 | 509 | EQ | 0.60 | 0.94 | ug/m3 |
| 74-87-3 | Chloromethane | 0.56 | 1.16 | | 0.21 | 1.03 | ug/m3 |
| 75-01-4 | Vinyl Chloride | 0.010 | 0.030 | U | 0.030 | 0.080 | ug/m3 |
| 74-83-9 | Bromomethane | 0.14 | 0.54 | U | 0.54 | 1.94 | ug/m3 |
| 75-00-3 | Chloroethane | 0.17 | 0.45 | U | 0.45 | 1.32 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | 0.17 | 0.50 | J | 0.38 | 1.47 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | 0.21 | 1.18 | J | 0.90 | 2.81 | ug/m3 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.16 | 1.23 | U | 1.23 | 3.83 | ug/m3 |
| 76-14-2 | Dichlorotetrafluoroethane | 0.090 | 0.63 | U | 0.63 | 3.49 | ug/m3 |
| 593-60-2 | Bromoethene | 0.12 | 0.52 | U | 0.52 | 2.19 | ug/m3 |
| 75-65-0 | tert-Butyl alcohol | 3.00 | 9.09 | | 0.58 | 1.52 | ug/m3 |
| 142-82-5 | Heptane | 0.47 | 1.93 | J | 0.45 | 2.05 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | 33.4 | 82.1 | E | 0.17 | 1.23 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethene | 0.14 | 0.56 | U | 0.56 | 1.98 | ug/m3 |
| 67-64-1 | Acetone | 17.3 | 41.1 | E | 0.57 | 1.19 | ug/m3 |
| 75-15-0 | Carbon Disulfide | 0.16 | 0.50 | U | 0.50 | 1.56 | ug/m3 |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.12 | 0.43 | U | 0.43 | 1.80 | ug/m3 |
| 75-09-2 | Methylene Chloride | 0.99 | 3.44 | | 0.66 | 1.74 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.19 | 0.75 | U | 0.75 | 1.98 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | 0.13 | 0.53 | U | 0.53 | 2.02 | ug/m3 |
| 110-82-7 | Cyclohexane | 0.24 | 0.83 | J | 0.76 | 1.72 | ug/m3 |
| 78-93-3 | 2-Butanone | 0.85 | 2.51 | | 0.35 | 1.47 | ug/m3 |
| 56-23-5 | Carbon Tetrachloride | 0.070 | 0.44 | | 0.060 | 0.19 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.090 | 0.36 | U | 0.36 | 1.98 | ug/m3 |
| 67-66-3 | Chloroform | 0.080 | 0.39 | U | 0.39 | 2.44 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.010 | 0.050 | U | 0.050 | 0.16 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | 0.63 | 2.94 | | 0.47 | 2.34 | ug/m3 |
| 71-43-2 | Benzene | 0.49 | 1.57 | J | 0.29 | 1.60 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | 0.48 | 1.94 | J | 0.36 | 2.02 | ug/m3 |
| 79-01-6 | Trichloroethene | 0.020 | 0.11 | U | 0.11 | 0.16 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | 0.11 | 0.51 | U | 0.51 | 2.31 | ug/m3 |
| 75-27-4 | Bromodichloromethane | 0.080 | 0.54 | U | 0.54 | 3.35 | ug/m3 |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.36 | 1.48 | J | 0.37 | 2.05 | ug/m3 |
| 108-88-3 | Toluene | 4.40 | 16.6 | | 0.41 | 1.88 | ug/m3 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-DUP-1-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-07 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042420.D | 1 | | 04/28/25 11:33 | VL042825 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.060 | 0.27 | U | 0.27 | 2.27 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.060 | 0.27 | U | 0.27 | 2.27 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.070 | 0.38 | U | 0.38 | 2.73 | ug/m3 |
| 124-48-1 | Dibromochloromethane | 0.070 | 0.60 | U | 0.60 | 4.26 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane | 0.070 | 0.54 | U | 0.54 | 0.77 | ug/m3 |
| 127-18-4 | Tetrachloroethene | 0.050 | 0.34 | | 0.14 | 0.20 | ug/m3 |
| 108-90-7 | Chlorobenzene | 0.080 | 0.37 | U | 0.37 | 2.30 | ug/m3 |
| 100-41-4 | Ethyl Benzene | 0.52 | 2.26 | | 0.52 | 2.17 | ug/m3 |
| 179601-23-1 | m/p-Xylene | 1.30 | 5.65 | | 0.91 | 4.34 | ug/m3 |
| 95-47-6 | o-Xylene | 0.51 | 2.22 | | 0.52 | 2.17 | ug/m3 |
| 100-42-5 | Styrene | 0.43 | 1.83 | J | 0.47 | 2.13 | ug/m3 |
| 75-25-2 | Bromoform | 0.060 | 0.62 | U | 0.62 | 5.17 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.010 | 0.070 | U | 0.070 | 0.21 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | 0.11 | 0.57 | U | 0.57 | 2.59 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.15 | 0.74 | J | 0.54 | 2.46 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.45 | 2.21 | J | 0.39 | 2.46 | ug/m3 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.080 | 0.48 | U | 0.48 | 3.01 | ug/m3 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.050 | 0.30 | U | 0.30 | 3.01 | ug/m3 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.080 | 0.48 | U | 0.48 | 3.01 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.090 | 0.67 | U | 0.67 | 3.71 | ug/m3 |
| 87-68-3 | Hexachloro-1,3-Butadiene | 0.090 | 0.96 | U | 0.96 | 5.33 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | 0.13 | 0.29 | U | 0.29 | 1.11 | ug/m3 |
| 91-20-3 | Naphthalene | 0.080 | 0.42 | U | 0.42 | 0.52 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | 0.14 | 0.69 | J | 0.59 | 2.46 | ug/m3 |
| 110-54-3 | Hexane | 2.30 | 8.11 | | 0.39 | 1.76 | ug/m3 |
| 107-05-1 | Allyl Chloride | 0.15 | 0.47 | U | 0.47 | 1.57 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | 0.21 | 0.76 | U | 0.76 | 1.80 | ug/m3 |
| 80-62-6 | Methyl Methacrylate | 0.090 | 0.37 | U | 0.37 | 2.05 | ug/m3 |
| **SURROGATES** | | | | | | | |
| 460-00-4 | 1-Bromo-4-Fluorobenzene | 10.4 | | | 70 (65) - 130 (135) | 104% | SPK: 10 |
| **INTERNAL STANDARDS** | | | | | | | |
| 74-97-5 | Bromochloromethane | 141000 | | 2.777 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 402000 | | 3.949 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 353000 | | 8.868 | | | |
| **TENTITIVE IDENTIFIED COMPOUNDS** | | | | | | | |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-DUP-1-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-07 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042420.D | 1 | | 04/28/25 11:33 | VL042825 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 75-45-6 | Chlorodifluoromethane | 0.23 | | J | | 1.47 | ppbv |
| 115-07-1 | Propene | 1.70 | | J | | 1.48 | ppbv |
| 000106-97-8 | Butane | 5.40 | | J | | 1.62 | ppbv |
| 001184-60-7 | 2-Fluoropropene | 3.50 | | J | | 2.27 | ppbv |
| 000107-83-5 | Pentane, 2-methyl- | 1.90 | | J | | 2.47 | ppbv |
| 000110-05-4 | Di-tert-butyl peroxide | 3.30 | | J | | 6.83 | ppbv |
| 000066-25-1 | Hexanal | 1.90 | | J | | 7.67 | ppbv |
| 000080-56-8 | .alpha.-Pinene | 2.20 | | J | | 10.8 | ppbv |
| 103-65-1 | n-propylbenzene | 0.12 | | J | | 11.0 | ppbv |

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042420.D
Acq On : 28 Apr 2025 11:33
Operator : SY/MD
Sample : Q1665-07
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 29 01:34:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) Bromochloromethane | 2.777 | 49 | 141186 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.949 | 114 | 402115 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.868 | 117 | 352885 | 10.000 | ppbv | | -0.01 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.367 | 95 | 302328 | 10.426 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 104.300% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.495 | 85 | 10705 | 0.429 | ppbv | | 100 |
| 3) Chlorodifluoromethane | 1.470 | 51 | 5425m | 0.228 | ppbv | | |
| 4) Chloromethane | 1.528 | 50 | 5568 | 0.564 | ppbv | | 99 |
| 9) Propene | 1.482 | 41 | 18668m | 1.726 | ppbv | | |
| 10) Heptane | 4.965 | 43 | 14258m | 0.469 | ppbv | | |
| 11) Trichlorofluoromethane | 1.871 | 101 | 4925 | 0.208 | ppbv | | 88 |
| 13) Ethanol | 1.719 | 45 | 472110 | 274.580 | ppbv | | 77 |
| 15) Acetone | 1.832 | 43 | 398840m | 17.256 | ppbv | | |
| 17) tert-Butyl alcohol | 2.039 | 59 | 85888 | 2.999 | ppbv | | 100 |
| 19) Isopropyl Alcohol | 1.881 | 45 | 428440 | 33.369 | ppbv | # | 66 |
| 20) Methylene Chloride | 2.055 | 84 | 8914 | 0.985 | ppbv | | 95 |
| 26) Hexane | 2.816 | 57 | 53184 | 2.306 | ppbv | # | 41 |
| 30) Cyclohexane | 3.842 | 84 | 4557 | 0.244 | ppbv | # | 88 |
| 34) 2-Butanone | 2.554 | 43 | 26974 | 0.848 | ppbv | | 98 |
| 35) Carbon Tetrachloride | 3.761 | 117 | 2508m | 0.069 | ppbv | | |
| 36) Benzene | 3.641 | 78 | 21444m | 0.494 | ppbv | | |
| 37) 1,2-Dichloroethane | 3.208 | 62 | 12506 | 0.480 | ppbv | | 98 |
| 41) Tetrahydrofuran | 3.059 | 42 | 3145m | 0.170 | ppbv | | |
| 44) 2,2,4-Trimethylpentane | 4.625 | 57 | 47245 | 0.631 | ppbv | # | 85 |
| 50) 4-Methyl-2-Pentanone | 5.748 | 43 | 18997 | 0.359 | ppbv | | 100 |
| 52) Tetrachloroethene | 8.215 | 164 | 871m | 0.052 | ppbv | | |
| 53) Toluene | 6.920 | 91 | 226903 | 4.360 | ppbv | | 99 |
| 58) Ethyl Benzene | 9.344 | 91 | 36433 | 0.521 | ppbv | | 97 |
| 59) m/p-Xylene | 9.522 | 91 | 71388m | 1.267 | ppbv | | |
| 60) o-Xylene | 9.956 | 91 | 28805 | 0.508 | ppbv | | 99 |
| 61) Styrene | 9.859 | 104 | 11652 | 0.430 | ppbv | | 93 |
| 64) n-propylbenzene | 10.979 | 120 | 2601 | 0.124 | ppbv | | 72 |
| 72) 4-Ethyltoluene | 11.118 | 105 | 9487 | 0.137 | ppbv | # | 64 |
| 73) 1,3,5-Trimethylbenzene | 11.196 | 105 | 9349 | 0.153 | ppbv | # | 77 |
| 74) 1,2,4-Trimethylbenzene | 11.529 | 105 | 32107 | 0.449 | ppbv | # | 65 |

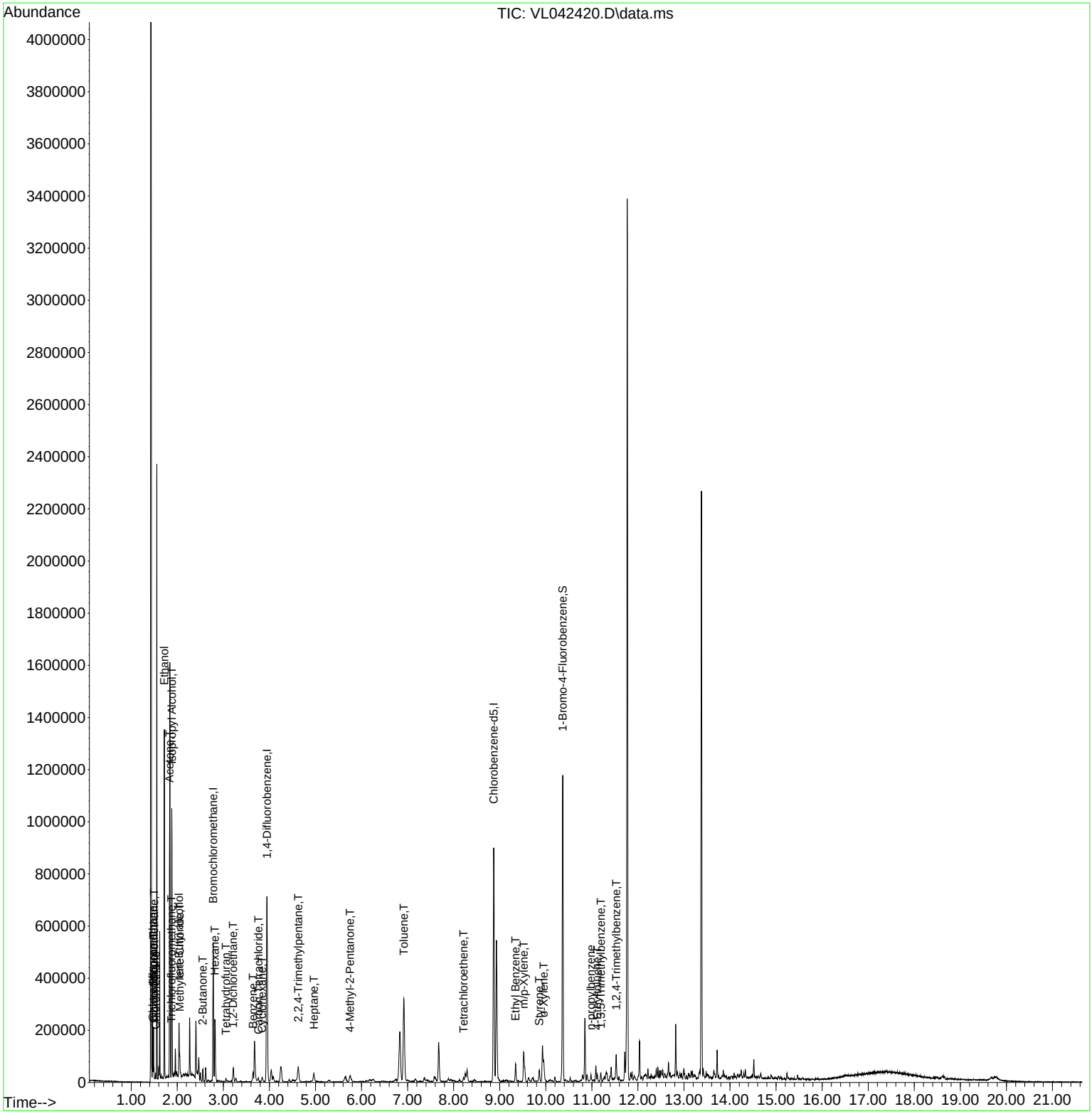
(#) = qualifier out of range (m) = manual integration (+) = signals summed

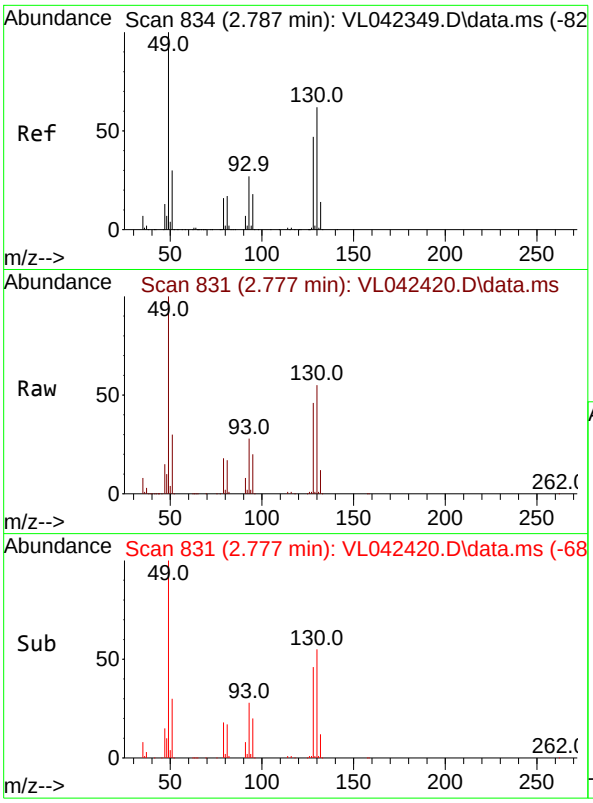
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042420.D
Acq On : 28 Apr 2025 11:33
Operator : SY/MD
Sample : Q1665-07
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 29 01:34:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

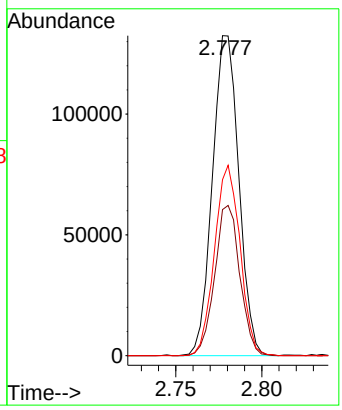





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.777 min Scan# 8
Delta R.T. -0.010 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion: 49 Resp: 14118

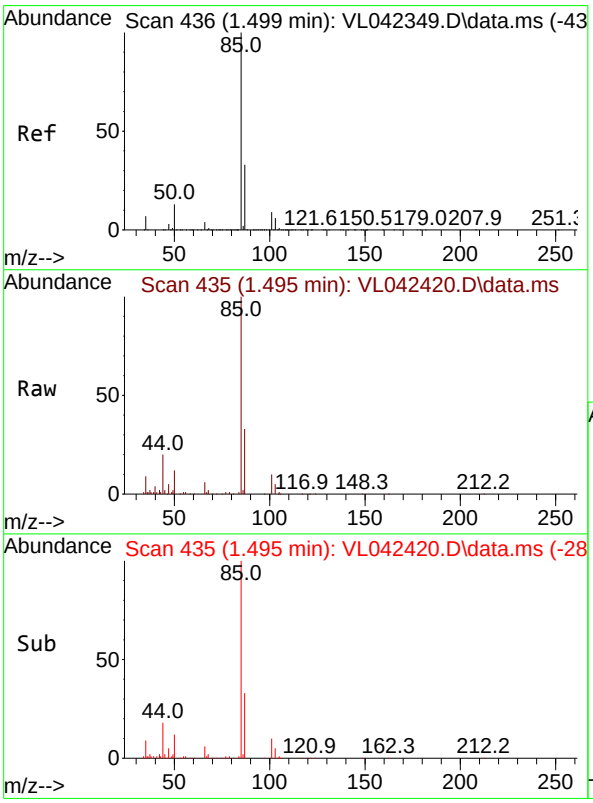
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 44.9 | 22.8 | 68.4 |
| 130 | 57.5 | 29.3 | 88.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025

**Manual Integrations**
**APPROVED**

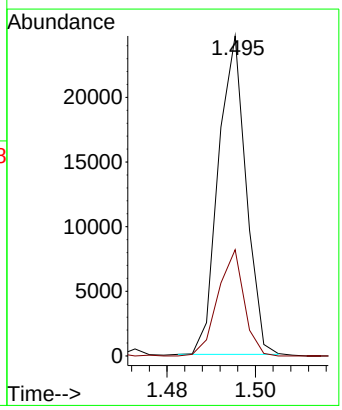
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

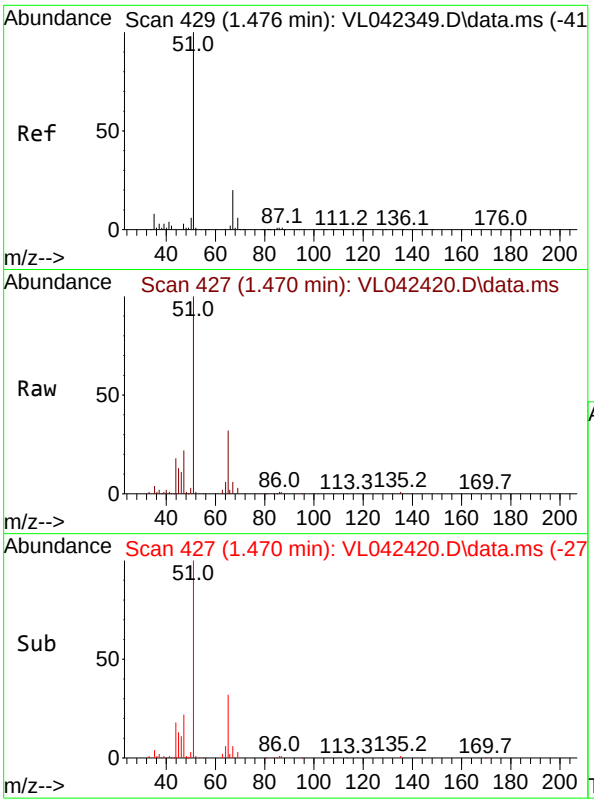



#2
Dichlorodifluoromethane
Concen: 0.429 ppbv
RT: 1.495 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion: 85 Resp: 10705

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.4 | 26.6 | 39.8 |






#3
Chlorodifluoromethane
Concen: 0.228 ppbv m
RT: 1.470 min Scan# 4
Delta R.T. -0.007 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

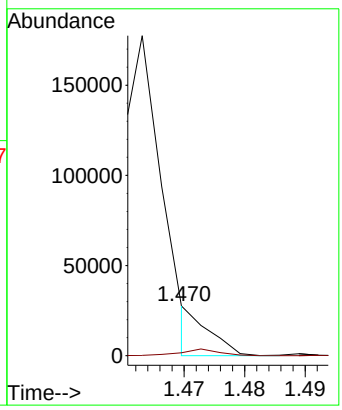
Tgt Ion: 51 Resp: 542

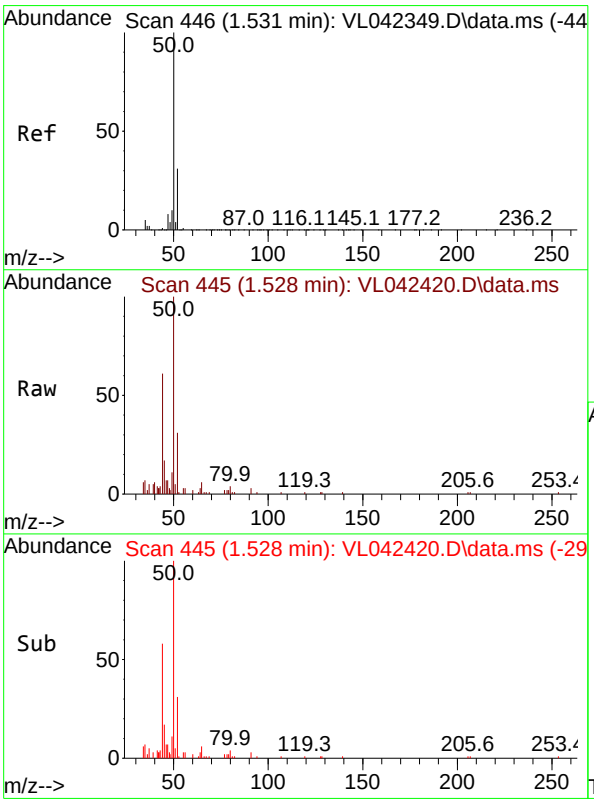
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 33.1 | 16.2 | 24.4 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

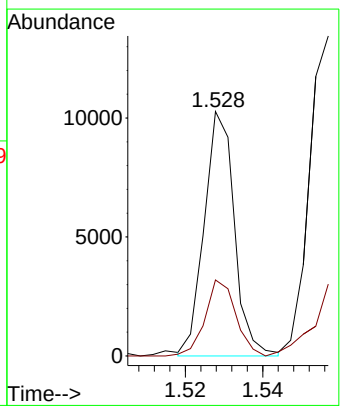


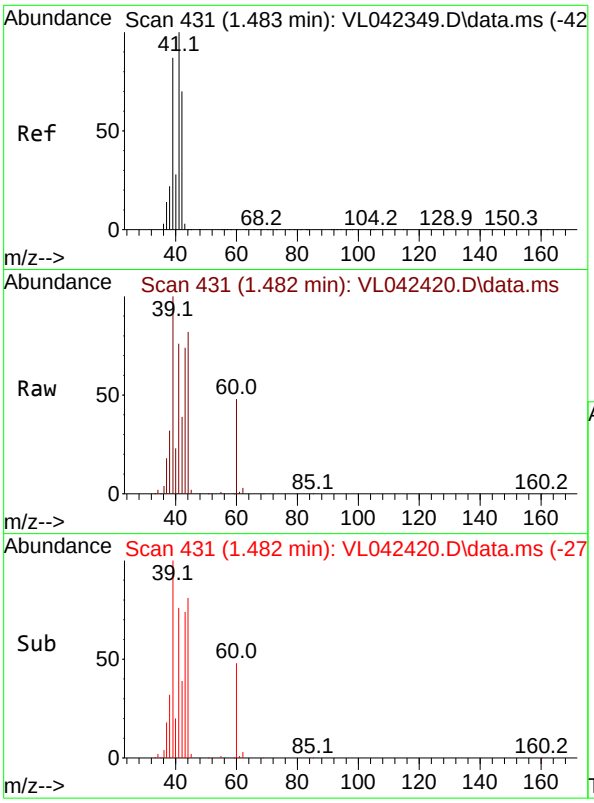




#4
Chloromethane
Concen: 0.564 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.003 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion: 50 Resp: 5568

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 30.2 | 24.7 | 37.1 |

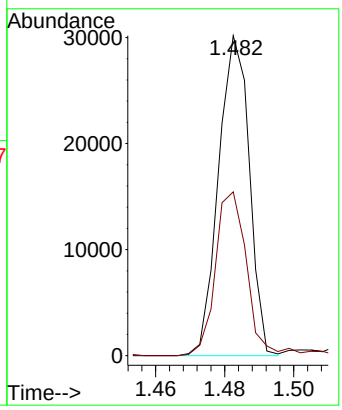





#9
Propene
Concen: 1.726 ppbv m
RT: 1.482 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion: 41 Resp: 1866

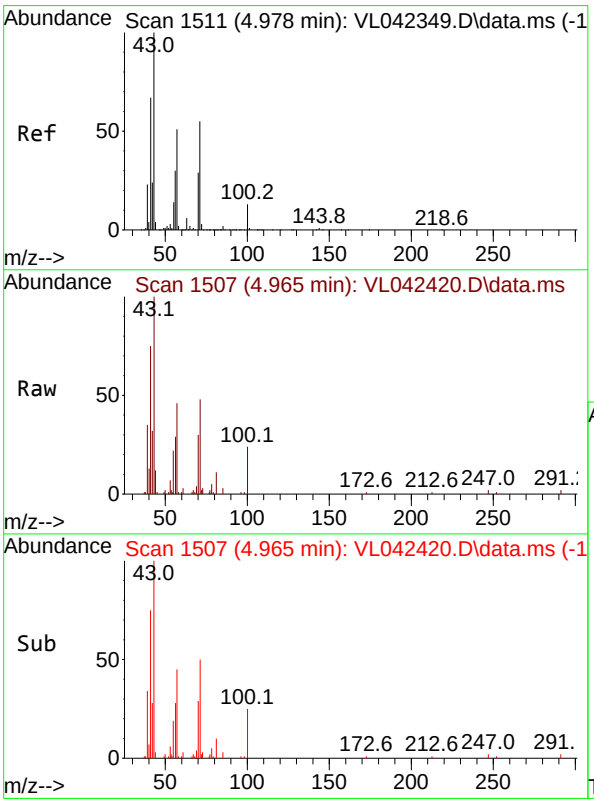
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 1003.3 | 56.2 | 84.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025

**Manual Integrations**
**APPROVED**

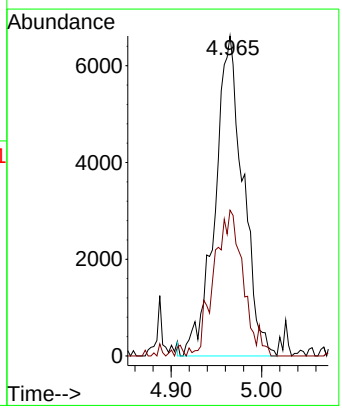
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

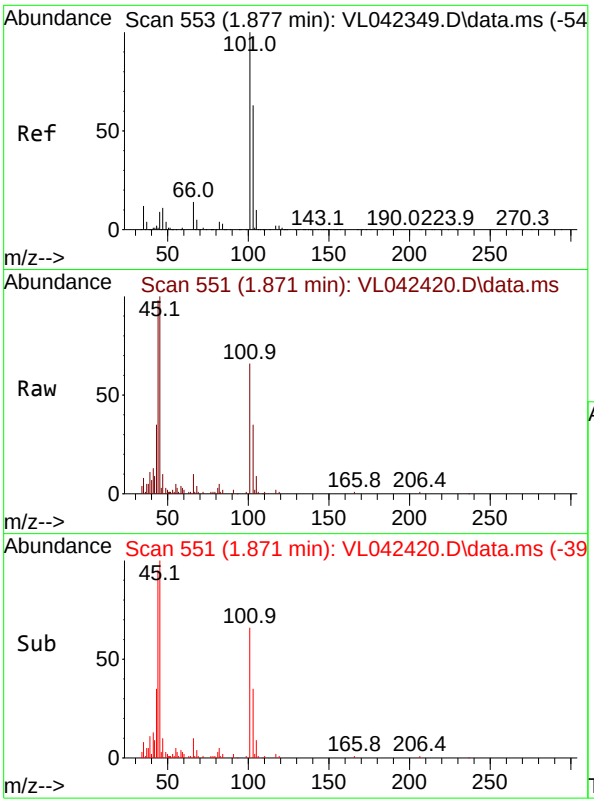



#10
Heptane
Concen: 0.469 ppbv m
RT: 4.965 min Scan# 1507
Delta R.T. -0.013 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion: 43 Resp: 14258

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 48.8 | 39.9 | 59.9 |






#11
Trichlorofluoromethane
Concen: 0.208 ppbv
RT: 1.871 min Scan# 5
Delta R.T. -0.007 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

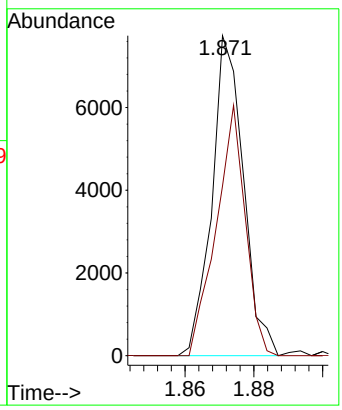
Tgt Ion:101 Resp: 492

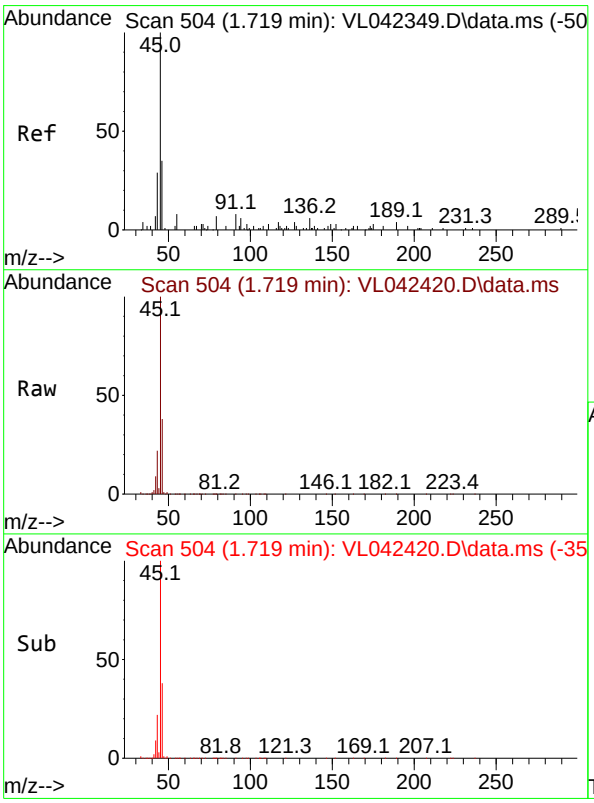
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 53.0 | 50.1 | 75.1 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

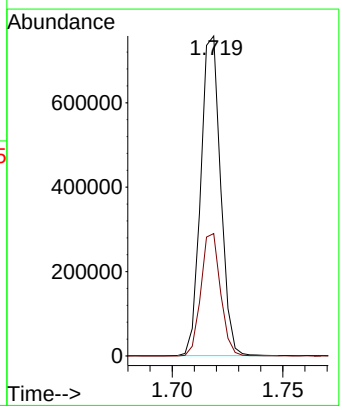


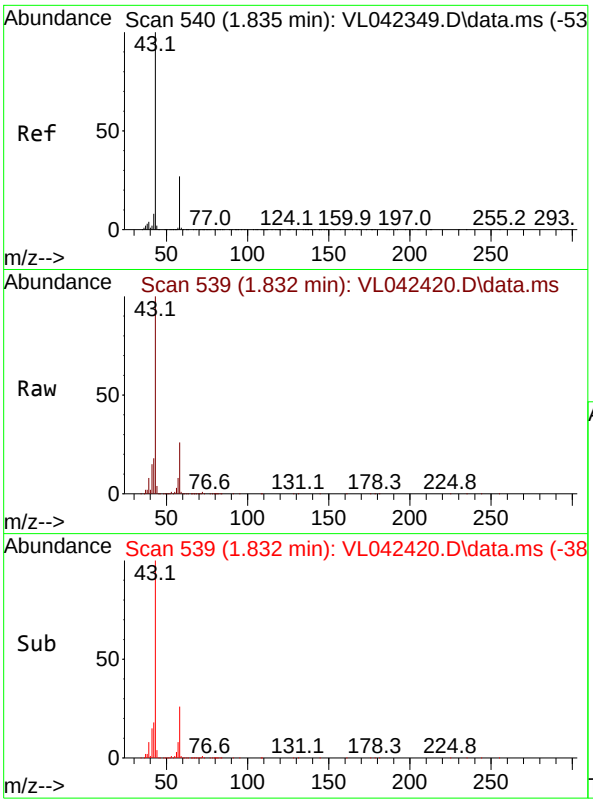




#13
Ethanol
Concen: 274.580 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion: 45 Resp: 472110

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 38.1 | 21.9 | 87.7 |

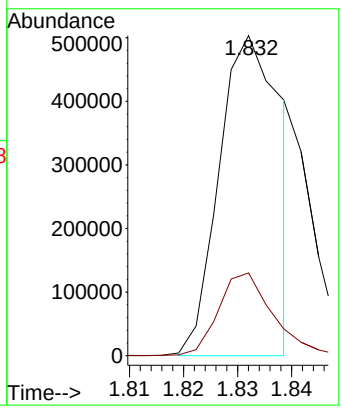





#15
Acetone
Concen: 17.256 ppbv m
RT: 1.832 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion: 43 Resp: 39884

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 23.0 | 22.4 | 33.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025

**Manual Integrations**
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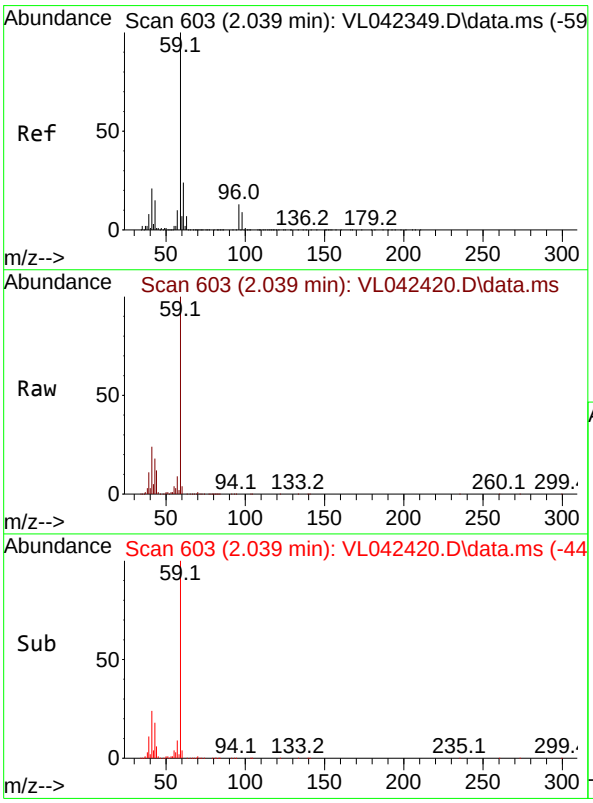
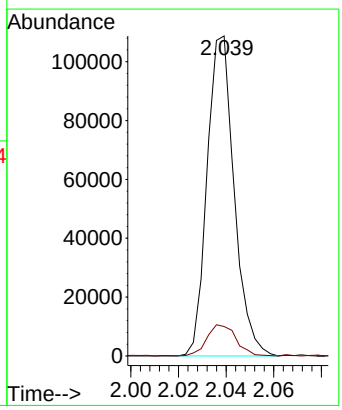
Supervised By :Mahesh Dadoda 04/30/2025

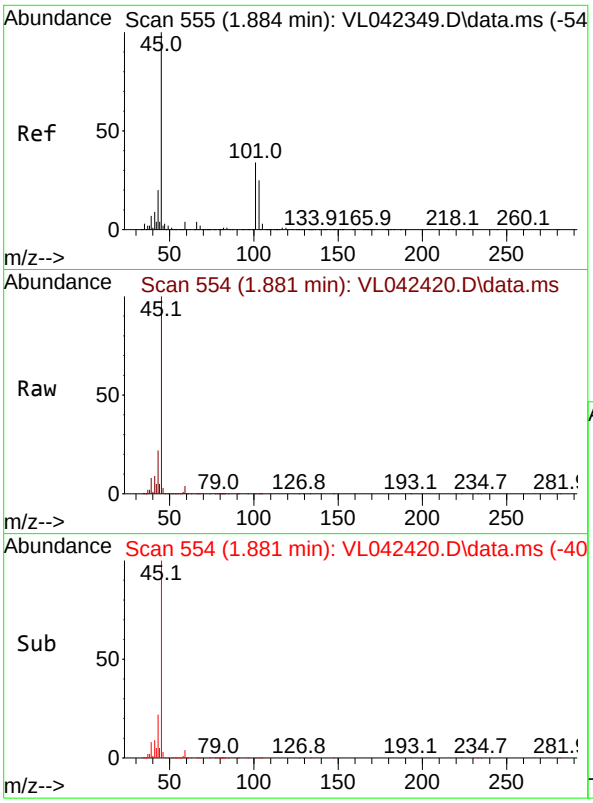



#17
tert-Butyl alcohol
Concen: 2.999 ppbv
RT: 2.039 min Scan# 603
Delta R.T. -0.000 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion: 59 Resp: 85888

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.9 | 8.7 | 13.1 |






#19
Isopropyl Alcohol
Concen: 33.369 ppbv
RT: 1.881 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion: 45 Resp: 42844

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 21.4 | 34.5 | 51.7 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025

**Manual Integrations**
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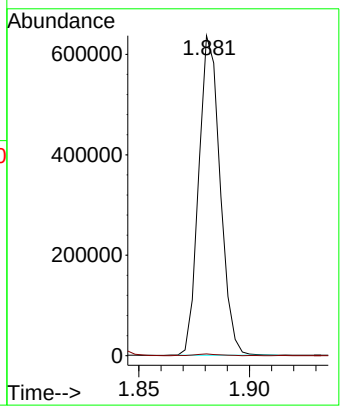
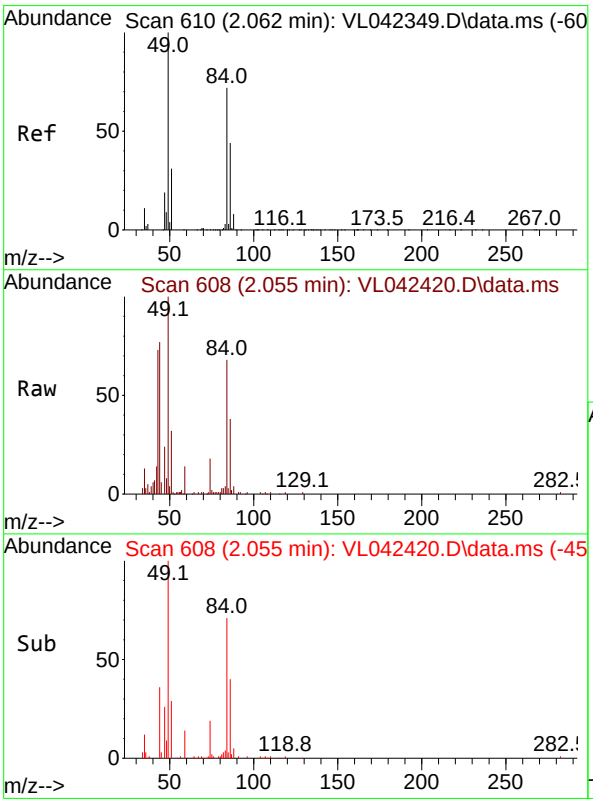
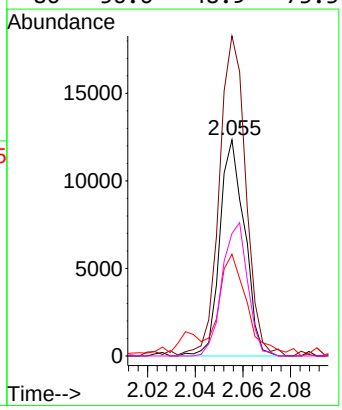


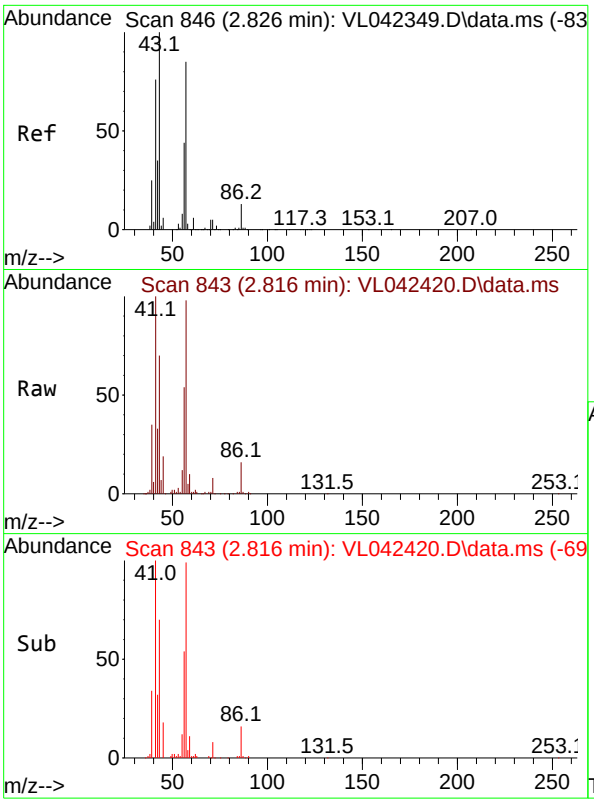




#20
Methylene Chloride
Concen: 0.985 ppbv
RT: 2.055 min Scan# 608
Delta R.T. -0.007 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion: 84 Resp: 8914

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 147.6 | 111.6 | 167.4 |
| 51 | 44.3 | 35.1 | 52.7 |
| 86 | 56.6 | 48.9 | 73.3 |

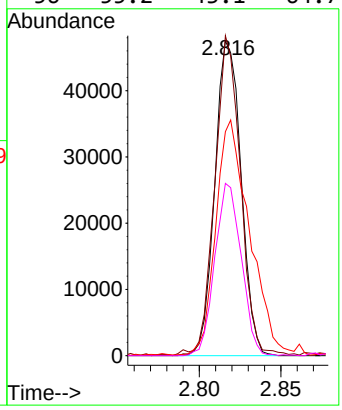





#26
Hexane
Concen: 2.306 ppbv
RT: 2.816 min Scan# 84
Delta R.T. -0.010 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion: 57 Resp: 5318

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 100.2 | 77.9 | 116.9 |
| 43 | 97.0 | 208.4 | 312.6# |
| 56 | 55.2 | 43.1 | 64.7 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025

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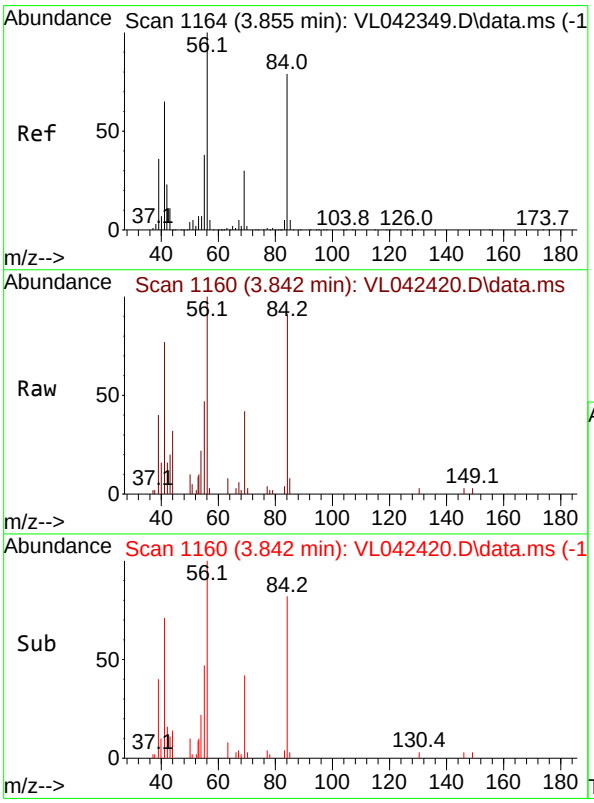
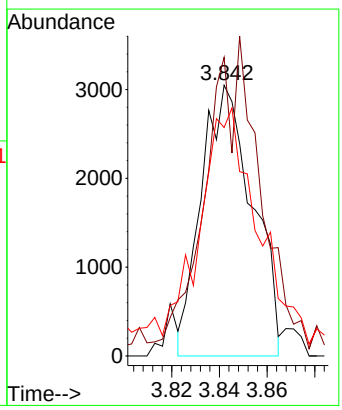
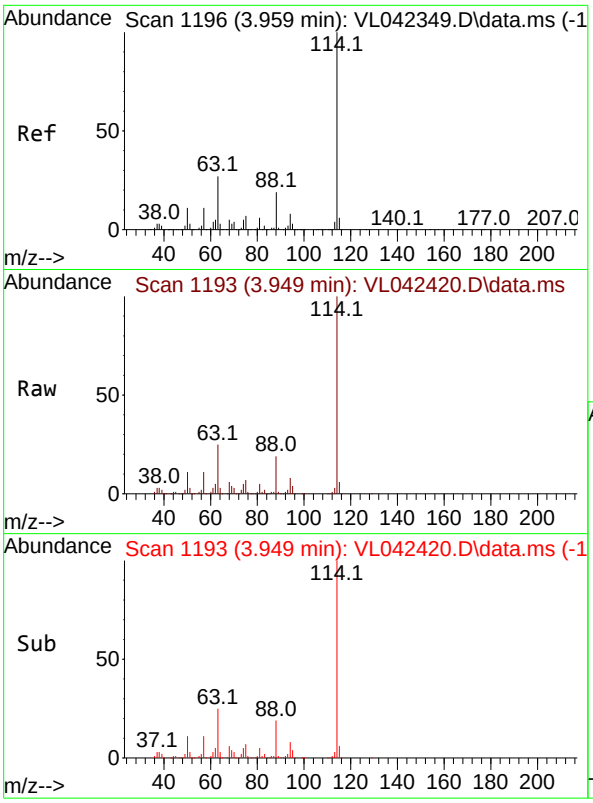



#30
Cyclohexane
Concen: 0.244 ppbv
RT: 3.842 min Scan# 1160
Delta R.T. -0.013 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion: 84 Resp: 4557

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 131.8 | 101.0 | 151.4 |
| 41 | 104.1 | 67.4 | 101.0# |

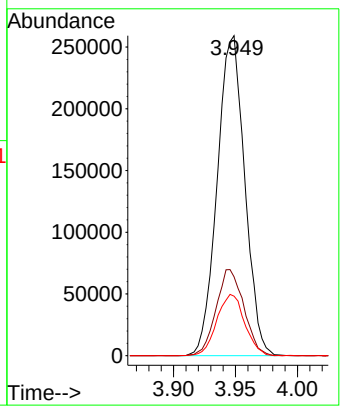





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1
Delta R.T. -0.010 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion:114 Resp: 40211

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 27.1 | 21.8 | 32.6 |
| 88 | 19.4 | 15.5 | 23.3 |




**Instrument :**
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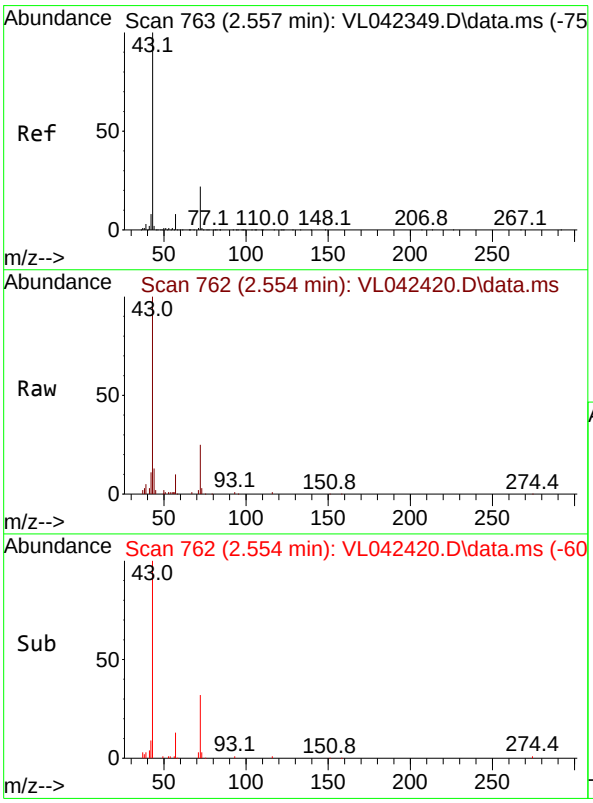
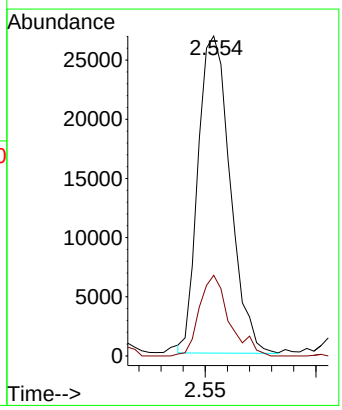
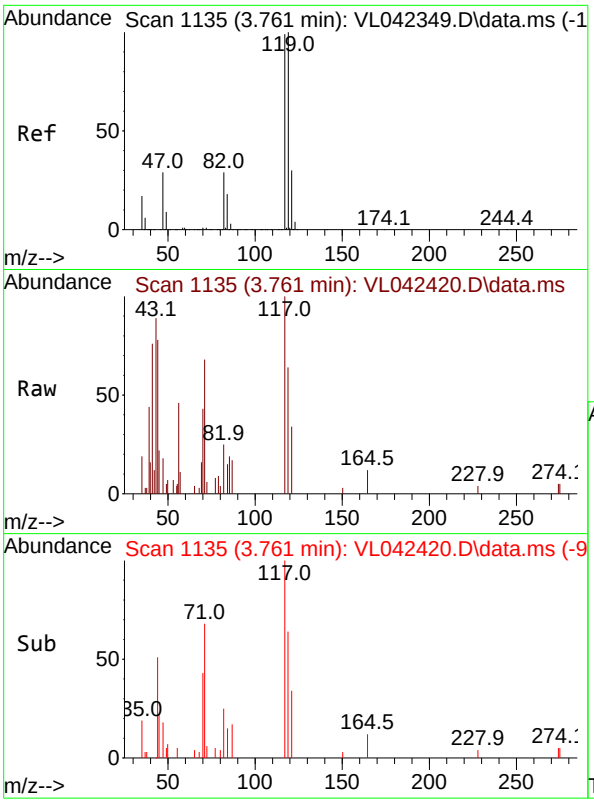



#34
2-Butanone
Concen: 0.848 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.003 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion: 43 Resp: 26974

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 23.7 | 18.2 | 27.2 |






#35
Carbon Tetrachloride
Concen: 0.069 ppbv m
RT: 3.761 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion:117 Resp: 250

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 64.4 | 80.5 | 120.7# |
| 121 | 33.6 | 24.2 | 36.2 |

**Instrument :**
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IA-DUP-1-3242025

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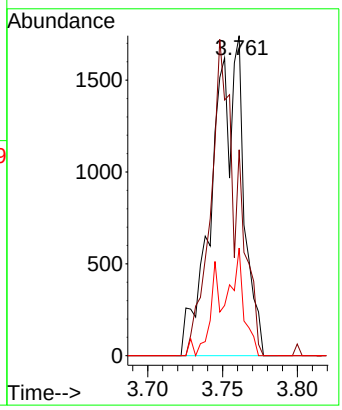
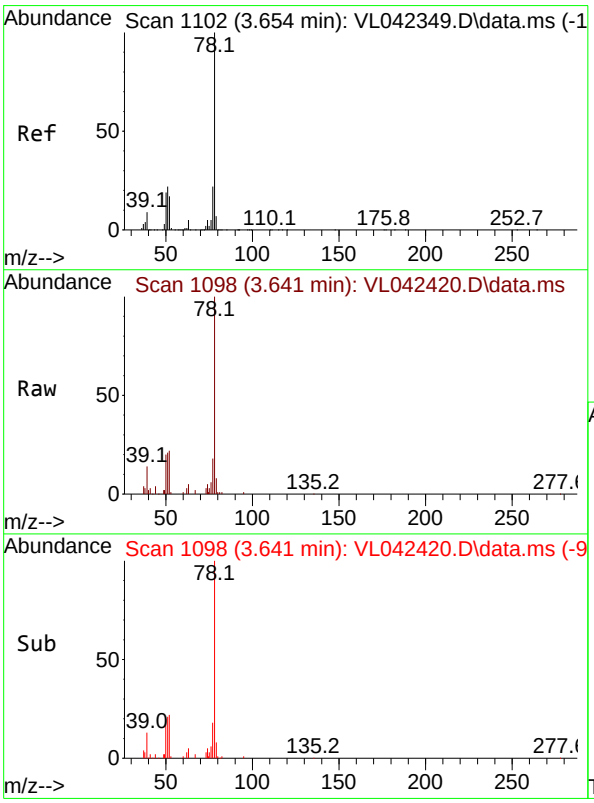
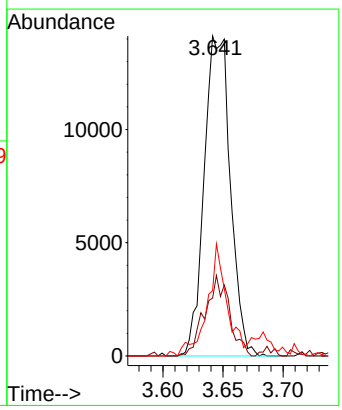


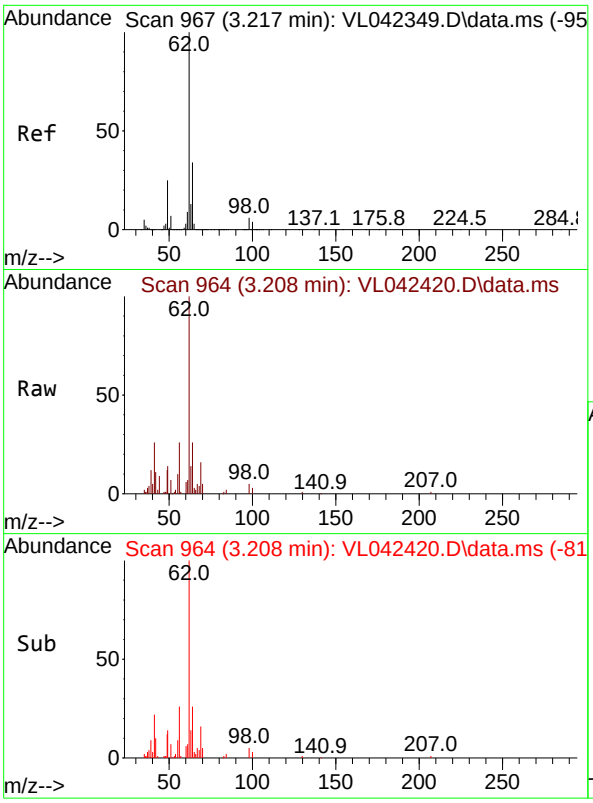




#36
Benzene
Concen: 0.494 ppbv m
RT: 3.641 min Scan# 1098
Delta R.T. -0.013 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion: 78 Resp: 21444

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 18.1 | 17.4 | 26.0 |
| 50 | 20.4 | 15.5 | 23.3 |

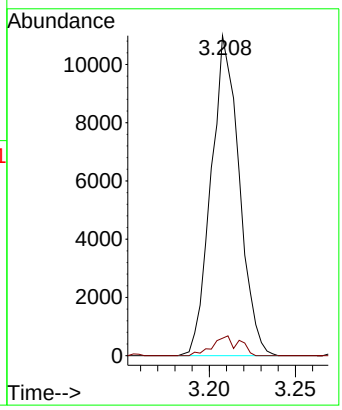





#37
1,2-Dichloroethane
Concen: 0.480 ppbv
RT: 3.208 min Scan# 9
Delta R.T. -0.010 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion: 62 Resp: 1250

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 5.9 | 5.1 | 7.7 |




**Instrument :**
MSVOA_L
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IA-DUP-1-3242025

**Manual Integrations**
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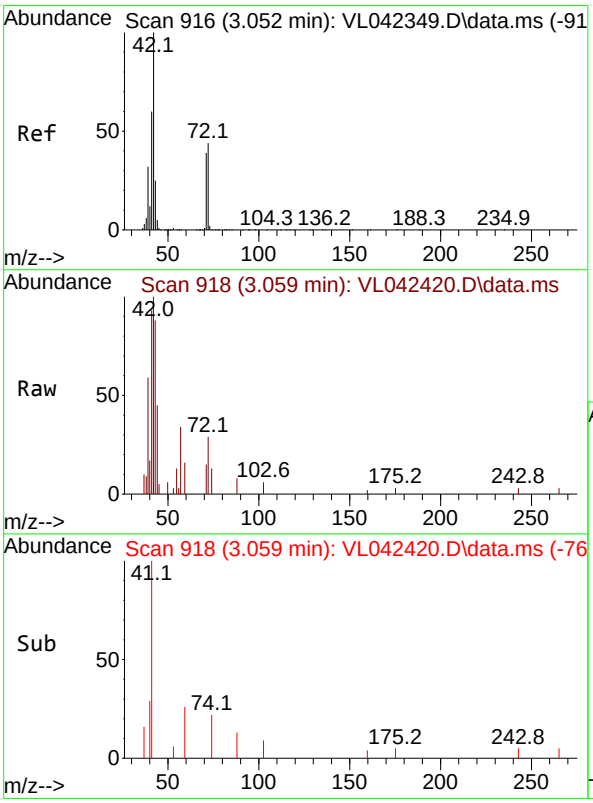
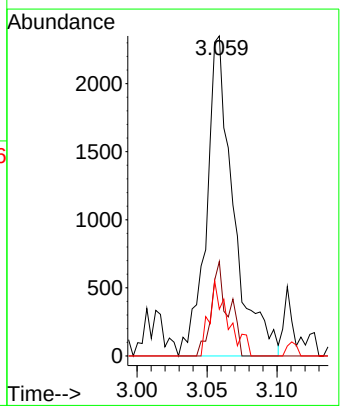
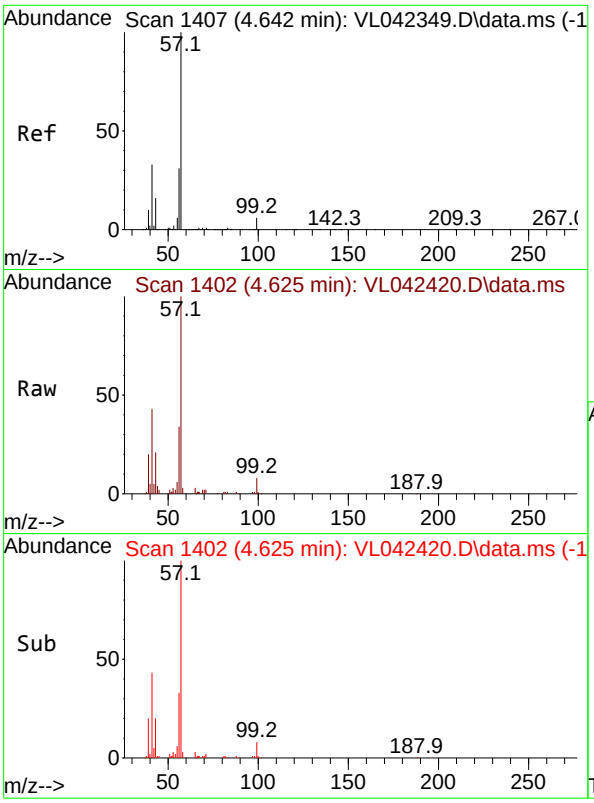



#41
Tetrahydrofuran
Concen: 0.170 ppbv m
RT: 3.059 min Scan# 918
Delta R.T. 0.006 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion: 42 Resp: 3145

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 18.5 | 32.3 | 48.5# |
| 71 | 16.4 | 31.4 | 47.2# |

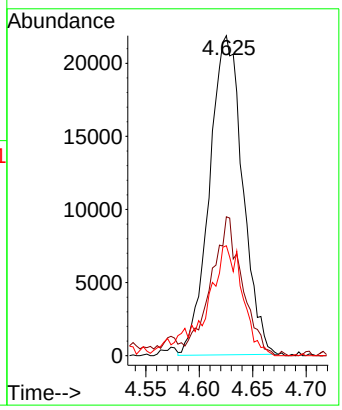





#44
2,2,4-Trimethylpentane
Concen: 0.631 ppbv
RT: 4.625 min Scan# 14
Delta R.T. -0.016 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion: 57 Resp: 4724

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 44.6 | 27.2 | 40.8 |
| 56 | 38.4 | 25.7 | 38.5 |




**Instrument :**
MSVOA_L
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IA-DUP-1-3242025

**Manual Integrations**
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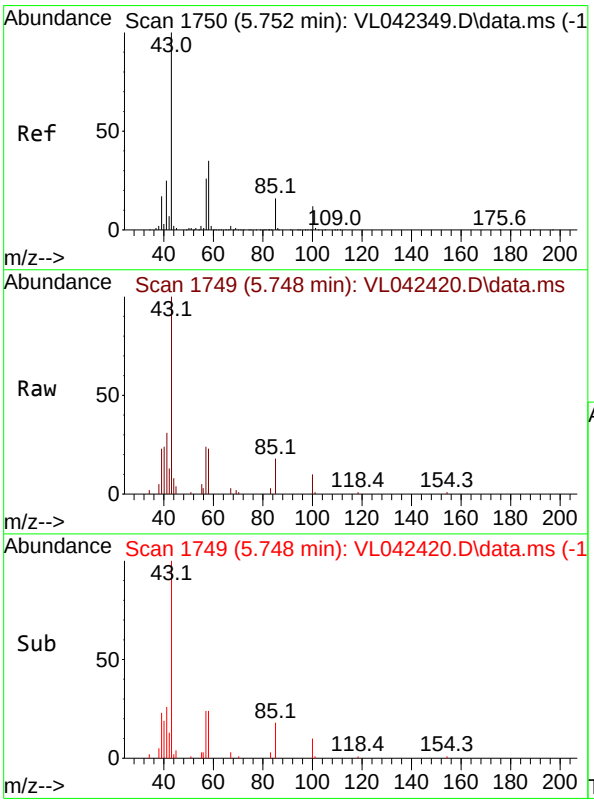
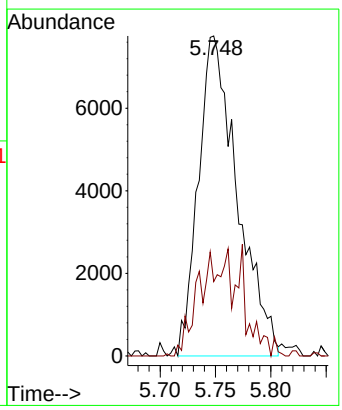
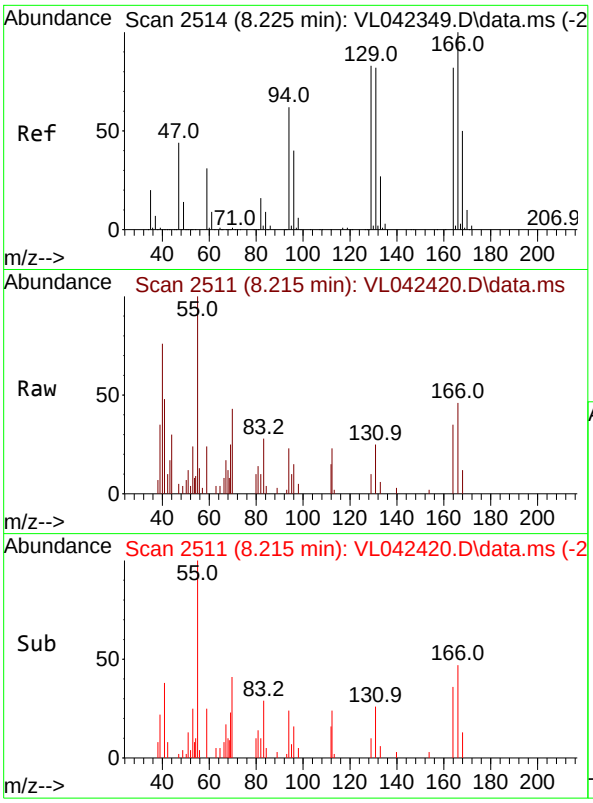



#50
4-Methyl-2-Pentanone
Concen: 0.359 ppbv
RT: 5.748 min Scan# 1749
Delta R.T. -0.003 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion: 43 Resp: 18997

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 35.5 | 28.6 | 43.0 |

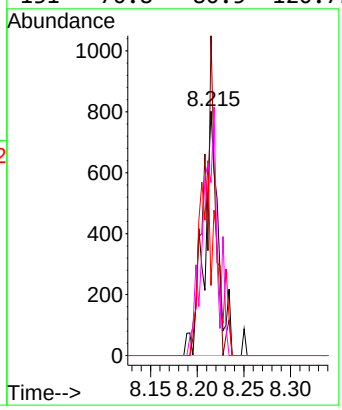





#52
Tetrachloroethene
Concen: 0.052 ppbv m
RT: 8.215 min Scan# 2
Delta R.T. -0.010 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion:164 Resp: 87

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 130.9 | 98.2 | 147.2 |
| 129 | 28.7 | 81.8 | 122.8# |
| 131 | 70.8 | 80.5 | 120.7# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025

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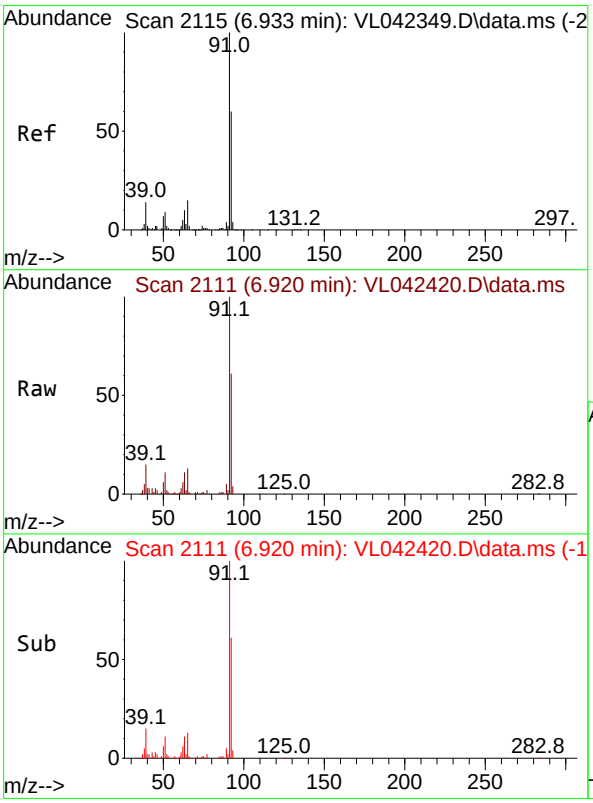
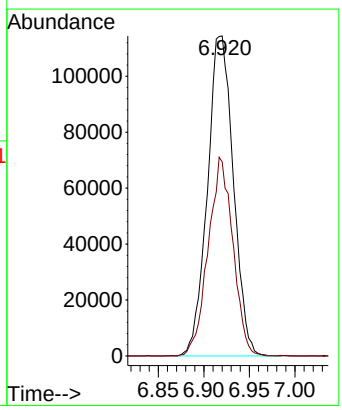
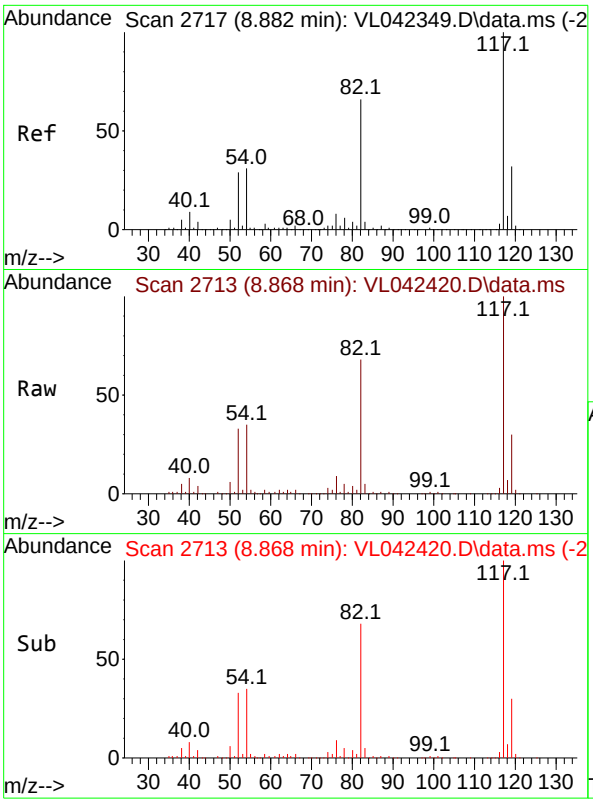



#53
Toluene
Concen: 4.360 ppbv
RT: 6.920 min Scan# 2111
Delta R.T. -0.013 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion: 91 Resp: 226903

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 59.2 | 48.2 | 72.4 |

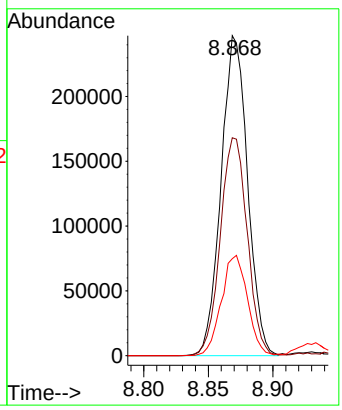





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.868 min Scan# 2
Delta R.T. -0.013 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion:117 Resp: 35288

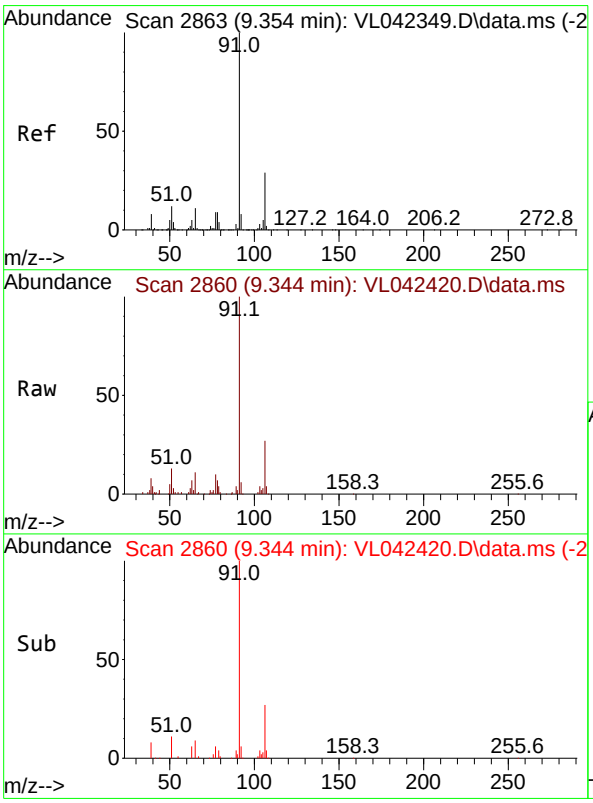
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 69.3 | 57.8 | 86.6 |
| 119 | 31.0 | 25.2 | 37.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025

**Manual Integrations**
**APPROVED**

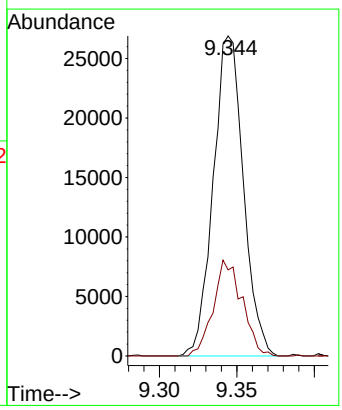
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

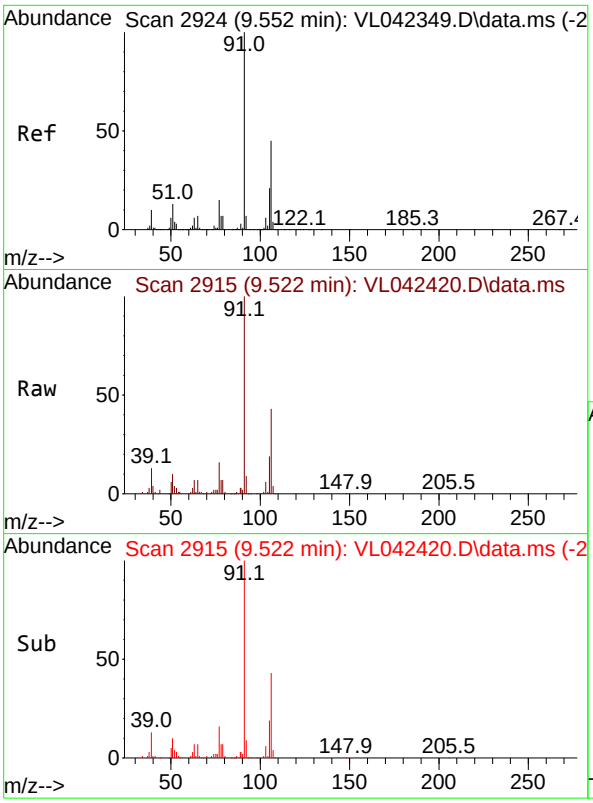



#58
Ethyl Benzene
Concen: 0.521 ppbv
RT: 9.344 min Scan# 2860
Delta R.T. -0.010 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion: 91 Resp: 36433

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 26.9 | 23.0 | 34.4 |

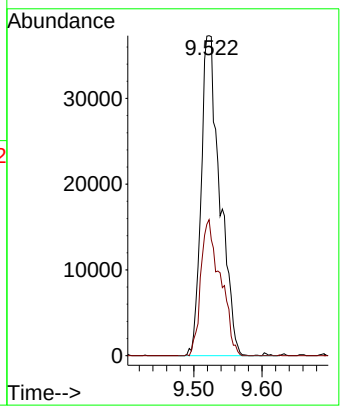





#59
m/p-Xylene
Concen: 1.267 ppbv m
RT: 9.522 min Scan# 2
Delta R.T. -0.029 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion: 91 Resp: 7138

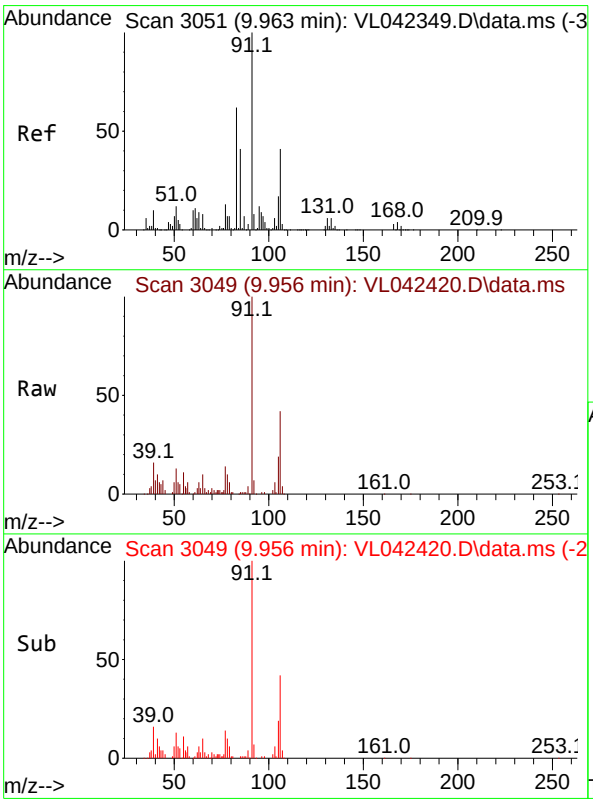
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 0.0 | 35.4 | 53.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025

**Manual Integrations**
**APPROVED**

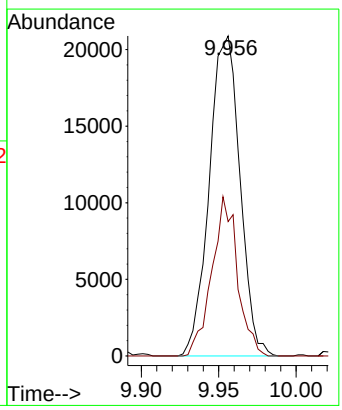
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

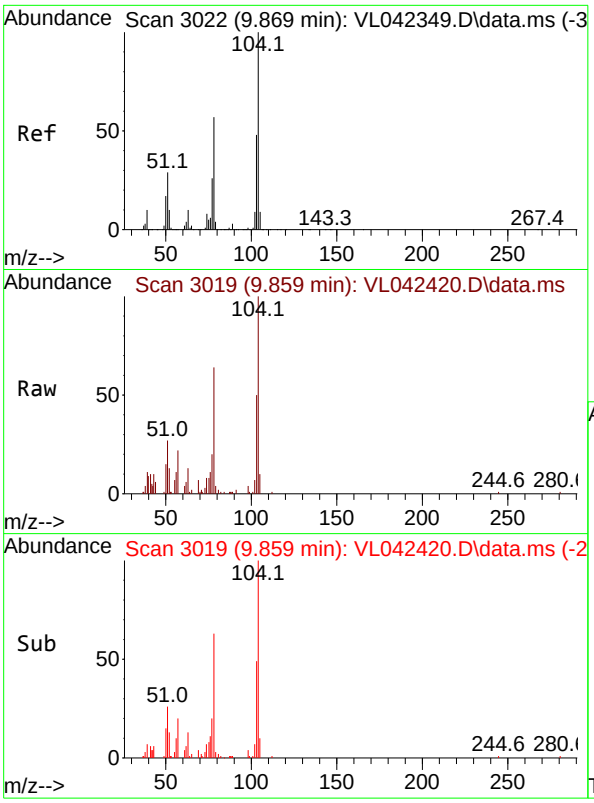



#60
o-Xylene
Concen: 0.508 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. -0.007 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion: 91 Resp: 28805

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 41.5 | 21.1 | 63.4 |

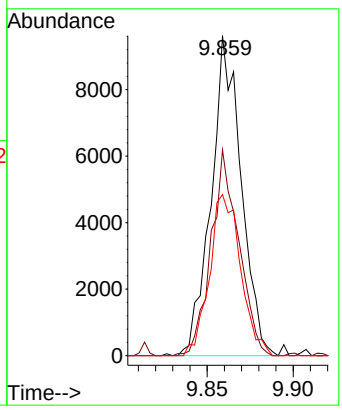





#61
Styrene
Concen: 0.430 ppbv
RT: 9.859 min Scan# 3(
Delta R.T. -0.010 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion:104 Resp: 1165

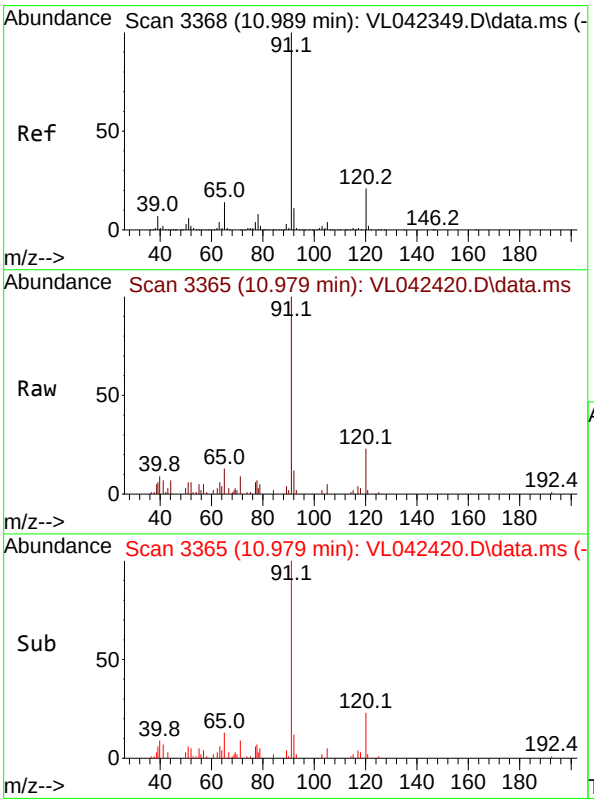
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 59.6 | 44.6 | 66.8 |
| 103 | 52.4 | 37.4 | 56.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025

**Manual Integrations**
**APPROVED**

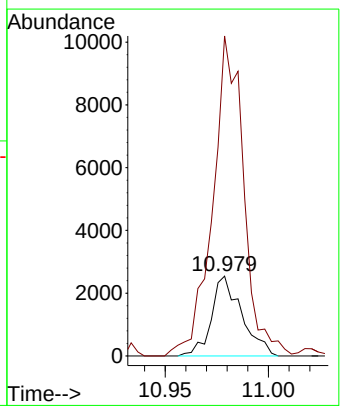
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

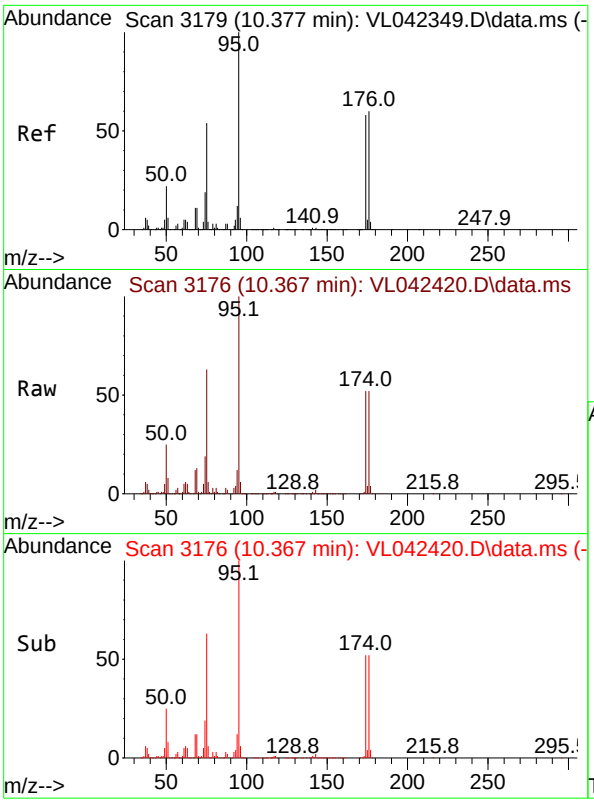



#64
n-propylbenzene
Concen: 0.124 ppbv
RT: 10.979 min Scan# 3365
Delta R.T. -0.010 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion:120 Resp: 2601

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 415.6 | 392.4 | 588.6 |

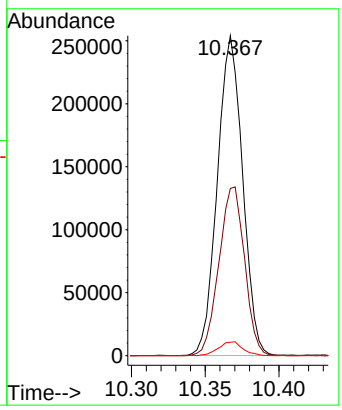





#68
1-Bromo-4-Fluorobenzene
Concen: 10.426 ppbv
RT: 10.367 min Scan# 3
Delta R.T. -0.010 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion: 95 Resp: 30232

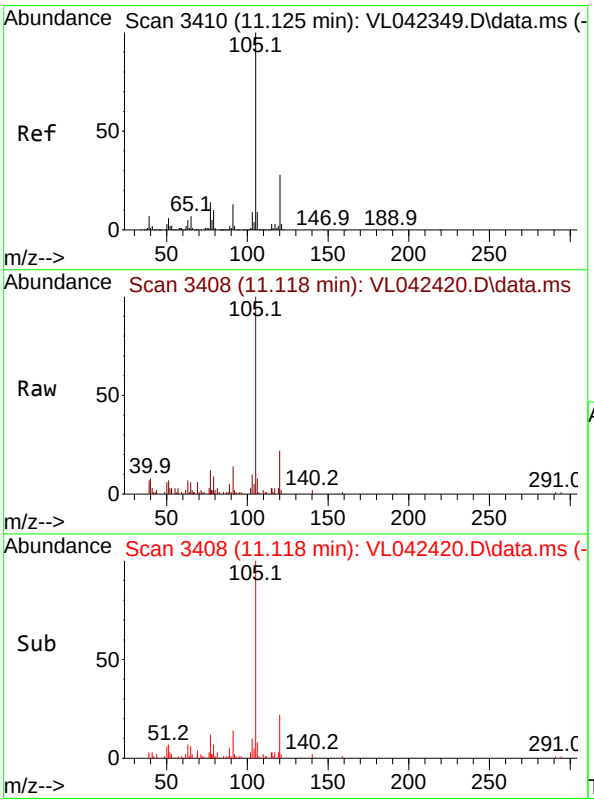
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 53.7 | 48.5 | 72.7 |
| 175 | 4.2 | 3.7 | 5.5 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025

**Manual Integrations**
**APPROVED**

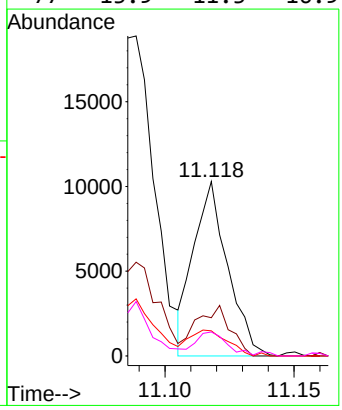
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

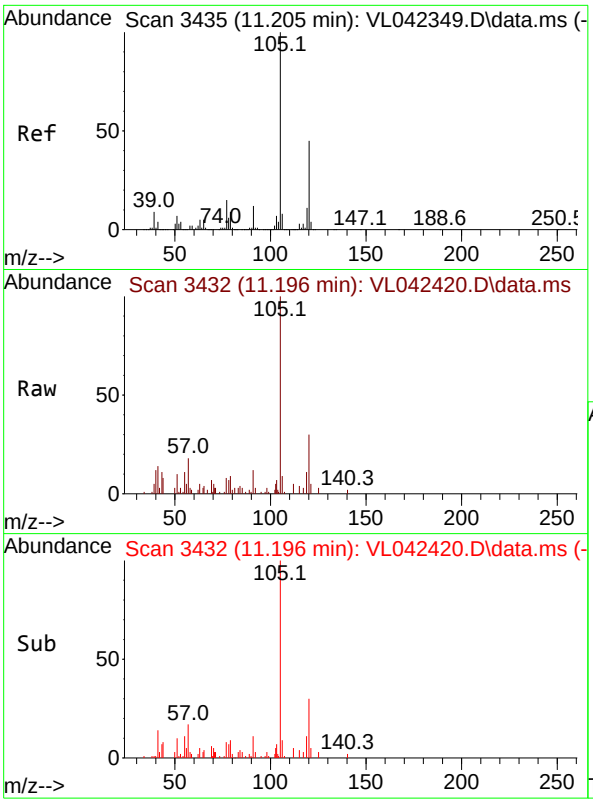



#72
4-Ethyltoluene
Concen: 0.137 ppbv
RT: 11.118 min Scan# 3408
Delta R.T. -0.007 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion:105 Resp: 9487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 0.0 | 23.2 | 34.8# |
| 91 | 0.0 | 10.4 | 15.6# |
| 77 | 13.9 | 11.3 | 16.9 |

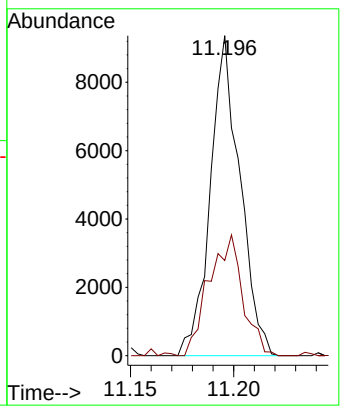





#73
1,3,5-Trimethylbenzene
Concen: 0.153 ppbv
RT: 11.196 min Scan# 34
Delta R.T. -0.010 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion:105 Resp: 934

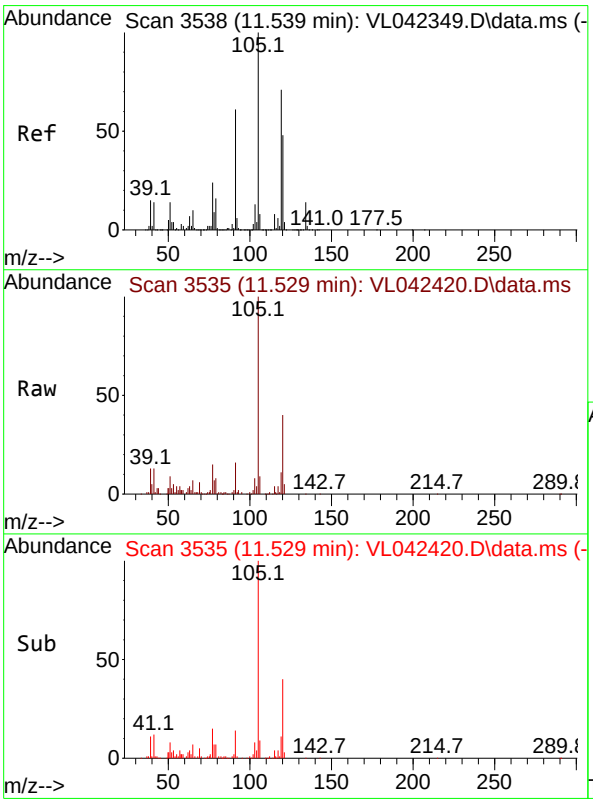
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 29.8 | 35.6 | 53.4# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025

**Manual Integrations**
**APPROVED**

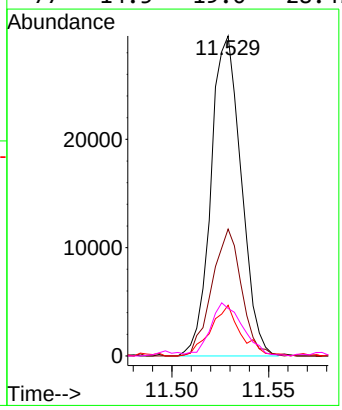
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025




#74
1,2,4-Trimethylbenzene
Concen: 0.449 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.010 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion:105 Resp: 32107

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 39.7 | 38.1 | 57.1 |
| 91 | 15.9 | 48.8 | 73.2# |
| 77 | 14.5 | 19.0 | 28.4# |



LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042420.D
Acq On : 28 Apr 2025 11:33
Operator : SY/MD
Sample : Q1665-07
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

Signal : TIC: VL042420.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.427 | 409 | 414 | 420 | rBV | 4575981 | 5213096 | 100.00% | 19.143% |
| 2 | 1.463 | 422 | 425 | 428 | rBV | 417175 | 194654 | 3.73% | 0.715% |
| 3 | 1.486 | 428 | 432 | 434 | rVV2 | 173357 | 87278 | 1.67% | 0.320% |
| 4 | 1.557 | 450 | 454 | 458 | rVB | 2357835 | 1295061 | 24.84% | 4.756% |
| 5 | 1.618 | 469 | 473 | 477 | rVB | 563139 | 303366 | 5.82% | 1.114% |
| 6 | 1.719 | 499 | 504 | 511 | rVB | 1335484 | 830838 | 15.94% | 3.051% |
| 7 | 1.839 | 534 | 541 | 548 | rBV2 | 1591719 | 1428300 | 27.40% | 5.245% |
| 8 | 1.881 | 548 | 554 | 561 | rBV | 1030988 | 703713 | 13.50% | 2.584% |
| 9 | 1.958 | 573 | 578 | 582 | rVB | 106374 | 73614 | 1.41% | 0.270% |
| 10 | 2.039 | 593 | 603 | 606 | rBV | 206174 | 180042 | 3.45% | 0.661% |
| 11 | 2.269 | 665 | 674 | 680 | rBV | 223689 | 195359 | 3.75% | 0.717% |
| 12 | 2.405 | 710 | 716 | 724 | rBV | 218384 | 228868 | 4.39% | 0.840% |
| 13 | 2.466 | 728 | 735 | 741 | rVB2 | 86854 | 103452 | 1.98% | 0.380% |
| 14 | 2.615 | 774 | 781 | 788 | rVV | 53368 | 52445 | 1.01% | 0.193% |
| 15 | 2.780 | 823 | 832 | 838 | rBV | 532755 | 557758 | 10.70% | 2.048% |
| 16 | 2.816 | 838 | 843 | 856 | rVB | 239045 | 294711 | 5.65% | 1.082% |
| 17 | 3.217 | 958 | 967 | 975 | rVB2 | 51395 | 73402 | 1.41% | 0.270% |
| 18 | 3.645 | 1086 | 1099 | 1104 | rBV4 | 37109 | 58028 | 1.11% | 0.213% |
| 19 | 3.677 | 1104 | 1109 | 1123 | rVB | 152347 | 223832 | 4.29% | 0.822% |
| 20 | 3.946 | 1179 | 1192 | 1207 | rBV2 | 709896 | 1118424 | 21.45% | 4.107% |
| 21 | 4.039 | 1210 | 1221 | 1228 | rBV3 | 42753 | 73471 | 1.41% | 0.270% |
| 22 | 4.243 | 1274 | 1284 | 1285 | rBV2 | 56797 | 57597 | 1.10% | 0.211% |
| 23 | 4.250 | 1285 | 1286 | 1302 | rVB5 | 56978 | 72576 | 1.39% | 0.267% |
| 24 | 4.625 | 1380 | 1402 | 1417 | rVB2 | 58488 | 135334 | 2.60% | 0.497% |
| 25 | 4.965 | 1496 | 1507 | 1521 | rVB3 | 30944 | 57316 | 1.10% | 0.210% |
| 26 | 6.833 | 2065 | 2084 | 2097 | rBV2 | 189096 | 447186 | 8.58% | 1.642% |
| 27 | 6.917 | 2097 | 2110 | 2128 | rVB | 315907 | 654501 | 12.55% | 2.403% |
| 28 | 7.674 | 2331 | 2344 | 2362 | rVB4 | 150358 | 252178 | 4.84% | 0.926% |
| 29 | 8.289 | 2528 | 2534 | 2549 | rVB5 | 47502 | 83280 | 1.60% | 0.306% |
| 30 | 8.868 | 2697 | 2713 | 2723 | rBV | 897638 | 1339523 | 25.70% | 4.919% |
| 31 | 8.930 | 2723 | 2732 | 2743 | rVB | 531392 | 840484 | 16.12% | 3.086% |
| 32 | 9.341 | 2850 | 2859 | 2870 | rBV3 | 68323 | 94855 | 1.82% | 0.348% |
| 33 | 9.519 | 2905 | 2914 | 2920 | rBV2 | 112294 | 175228 | 3.36% | 0.643% |
| 34 | 9.859 | 3008 | 3019 | 3029 | rVB4 | 43447 | 63493 | 1.22% | 0.233% |
| 35 | 9.930 | 3031 | 3041 | 3045 | rVV3 | 136375 | 191773 | 3.68% | 0.704% |
| 36 | 9.953 | 3045 | 3048 | 3065 | rVB5 | 80711 | 125927 | 2.42% | 0.462% |

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042420.D
Acq On : 28 Apr 2025 11:33
Operator : SY/MD
Sample : Q1665-07
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 37 | 10.367 | 3162 | 3176 | 3187 | rBV2 | 1173470 | 1449415 | 27.80% | 5.322% |
| 38 | 10.849 | 3316 | 3325 | 3333 | rVB | 239417 | 289624 | 5.56% | 1.064% |
| 39 | 11.089 | 3392 | 3399 | 3404 | rBV | 57289 | 65202 | 1.25% | 0.239% |
| 40 | 11.419 | 3495 | 3501 | 3508 | rVB3 | 48203 | 57001 | 1.09% | 0.209% |
| 41 | 11.529 | 3526 | 3535 | 3544 | rVB2 | 93595 | 123335 | 2.37% | 0.453% |
| 42 | 11.713 | 3582 | 3592 | 3597 | rBV | 111140 | 130182 | 2.50% | 0.478% |
| 43 | 11.769 | 3597 | 3609 | 3620 | rVB | 3380314 | 4067318 | 78.02% | 14.935% |
| 44 | 12.034 | 3675 | 3691 | 3700 | rBV4 | 150973 | 202073 | 3.88% | 0.742% |
| 45 | 12.665 | 3880 | 3886 | 3892 | rVB5 | 52359 | 56665 | 1.09% | 0.208% |
| 46 | 12.820 | 3927 | 3934 | 3940 | rBV2 | 198839 | 189856 | 3.64% | 0.697% |
| 47 | 12.998 | 3981 | 3989 | 4000 | rVB2 | 41155 | 65465 | 1.26% | 0.240% |
| 48 | 13.377 | 4098 | 4106 | 4115 | rVB2 | 2240897 | 2497432 | 47.91% | 9.171% |
| 49 | 13.720 | 4205 | 4212 | 4218 | rVB2 | 104244 | 94143 | 1.81% | 0.346% |
| 50 | 14.516 | 4453 | 4458 | 4466 | rVB | 68509 | 63960 | 1.23% | 0.235% |

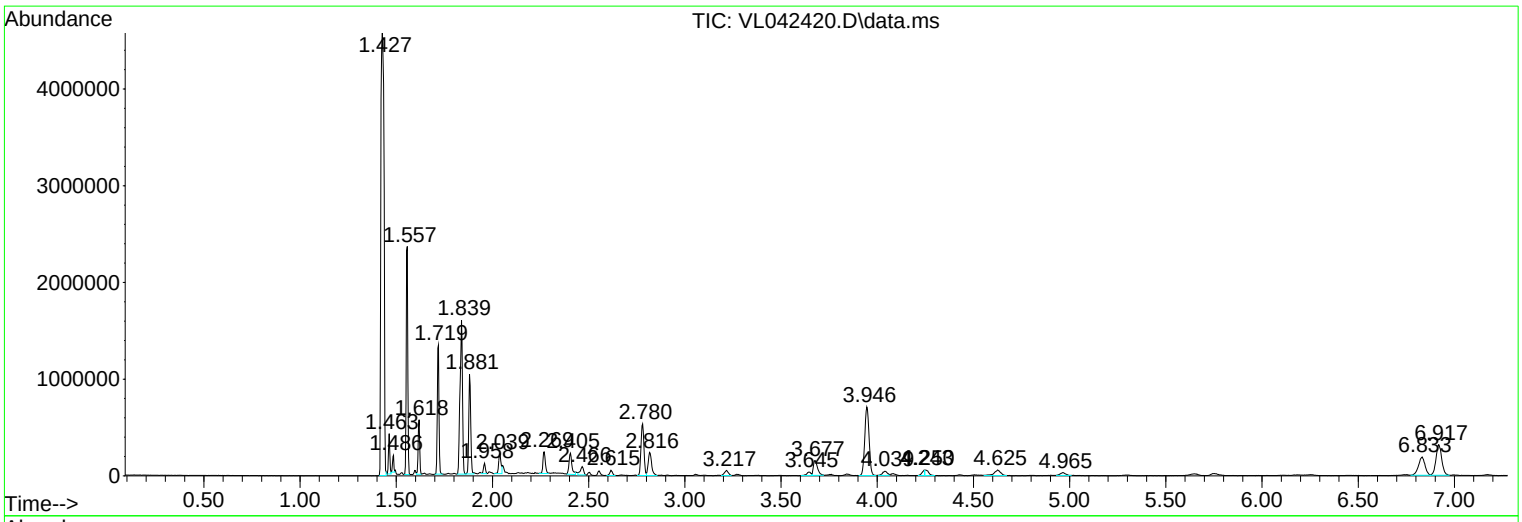
Sum of corrected areas: 27232634

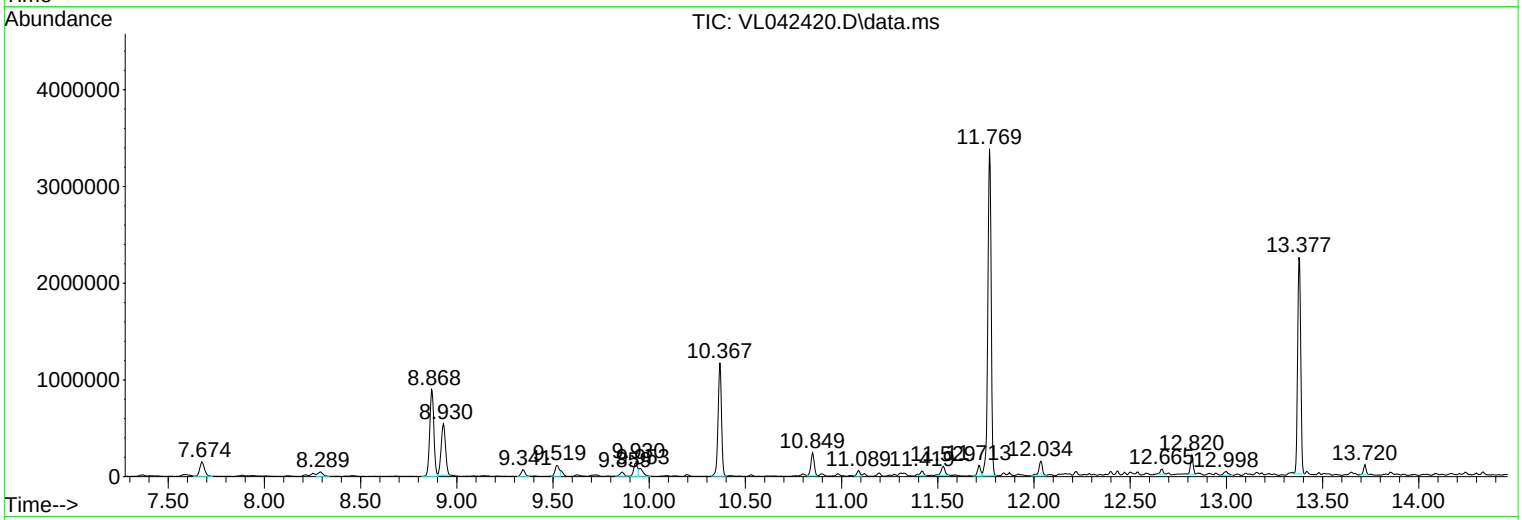
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042420.D
Acq On : 28 Apr 2025 11:33
Operator : SY/MD
Sample : Q1665-07
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

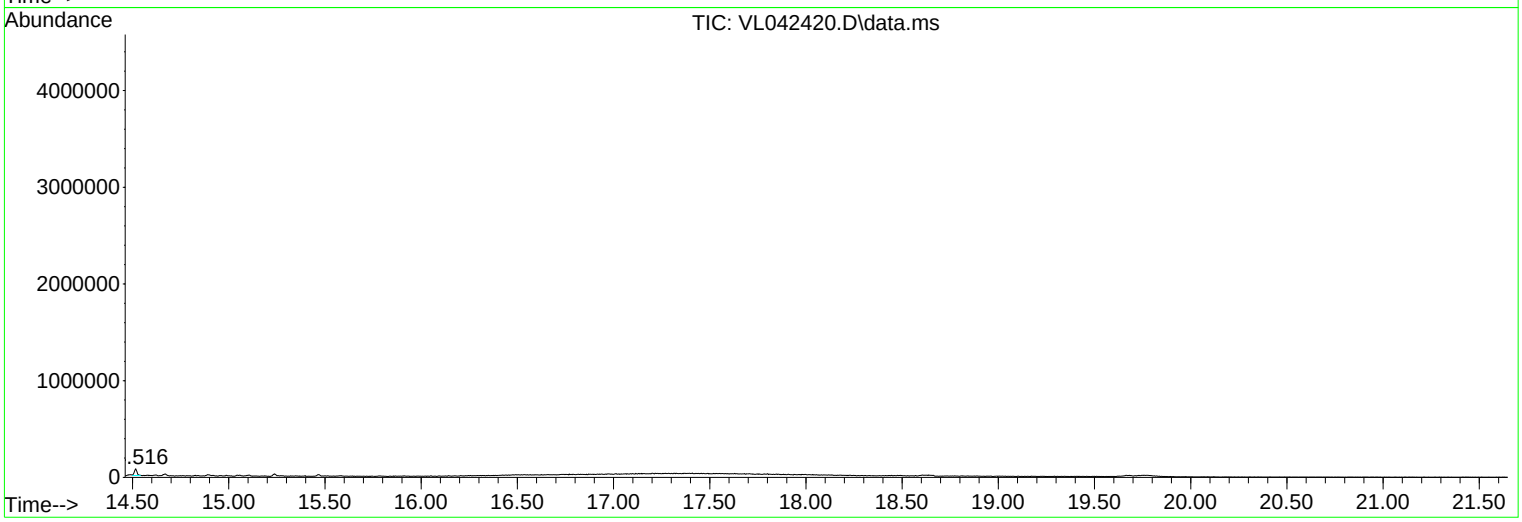
**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042420.D
Acq On : 28 Apr 2025 11:33
Operator : SY/MD
Sample : Q1665-07
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

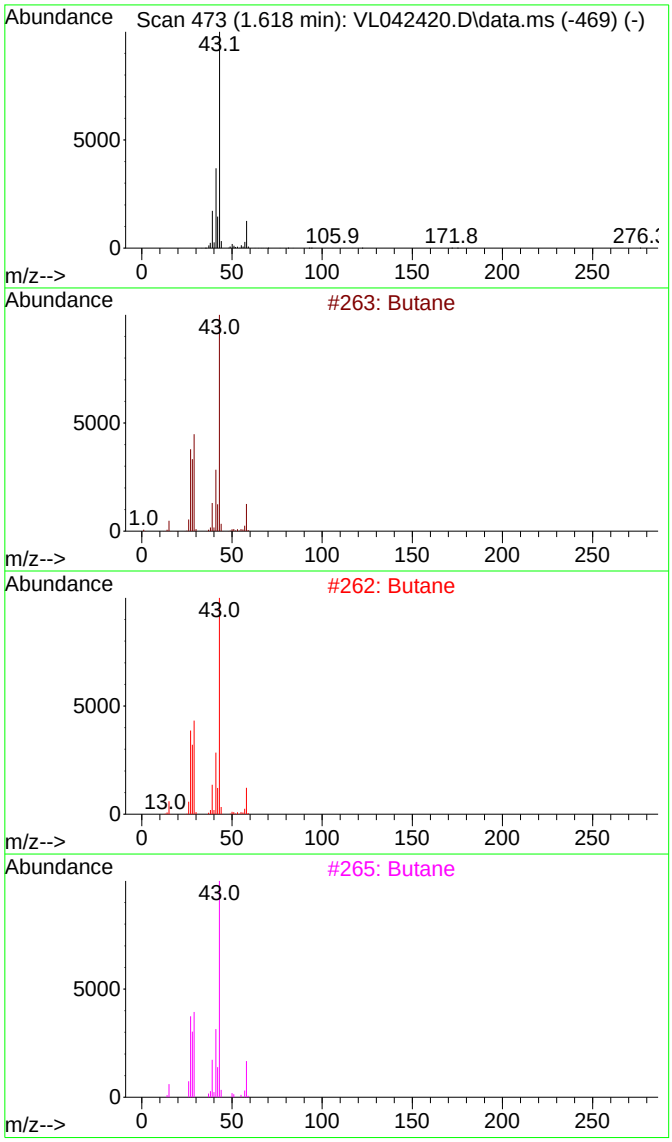
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

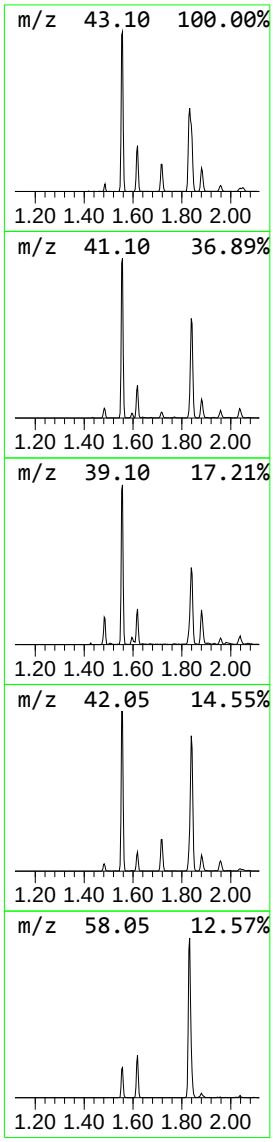
**********

Peak Number 1 Butane Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.618 | 5.44 ppbv | 303366 | Bromochloromethane | 2.777 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane | 58 | C4H10 | 000106-97-8 | 72 |
| 2 | Butane | 58 | C4H10 | 000106-97-8 | 72 |
| 3 | Butane | 58 | C4H10 | 000106-97-8 | 64 |
| 4 | Butane | 58 | C4H10 | 000106-97-8 | 52 |
| 5 | Isobutane | 58 | C4H10 | 000075-28-5 | 9 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042420.D
Acq On : 28 Apr 2025 11:33
Operator : SY/MD
Sample : Q1665-07
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

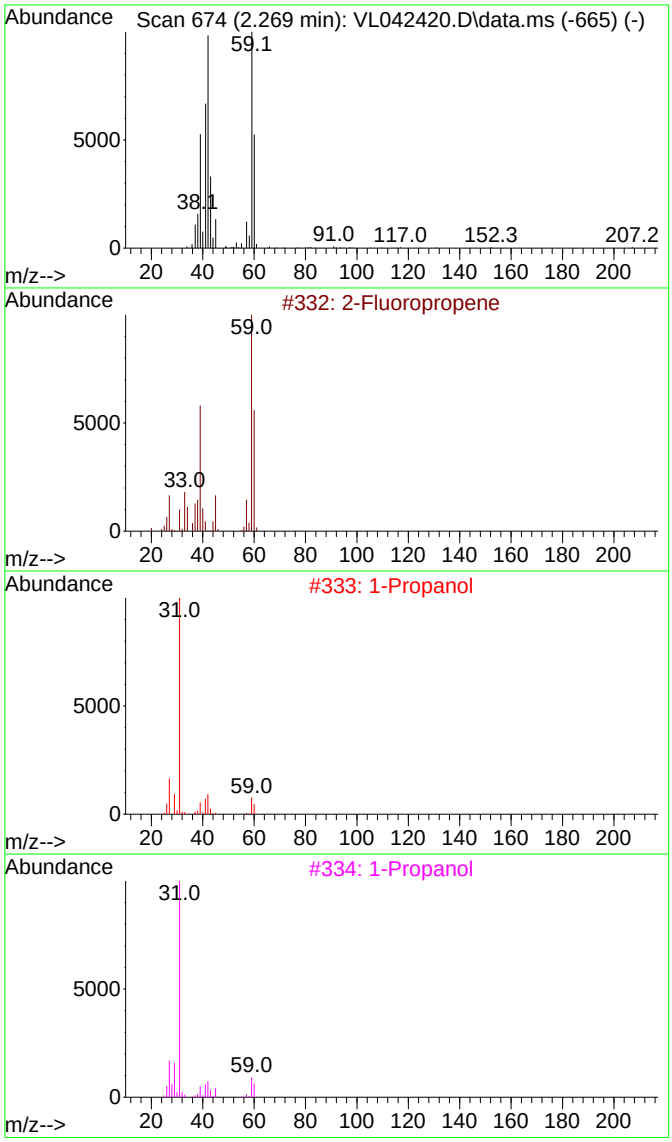
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

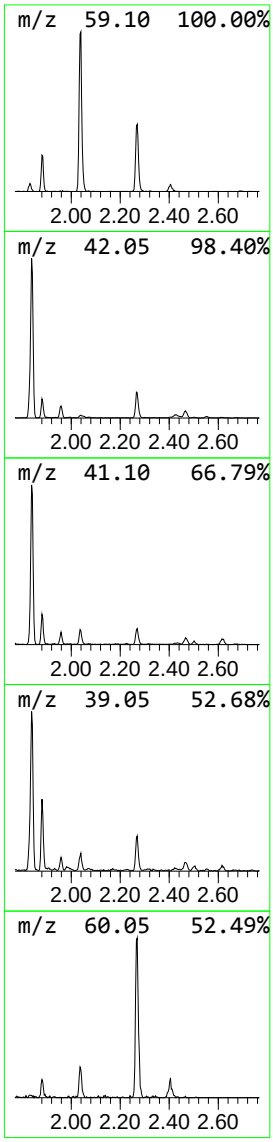
**********

Peak Number 2 2-Fluoropropene Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.269 | 3.50 ppbv | 195359 | Bromochloromethane | 2.777 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Fluoropropene | 60 | C3H5F | 001184-60-7 | 53 |
| 2 | 1-Propanol | 60 | C3H8O | 000071-23-8 | 53 |
| 3 | 1-Propanol | 60 | C3H8O | 000071-23-8 | 50 |
| 4 | 1-Propanol | 60 | C3H8O | 000071-23-8 | 46 |
| 5 | 2-Fluoropropene | 60 | C3H5F | 001184-60-7 | 38 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042420.D
Acq On : 28 Apr 2025 11:33
Operator : SY/MD
Sample : Q1665-07
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

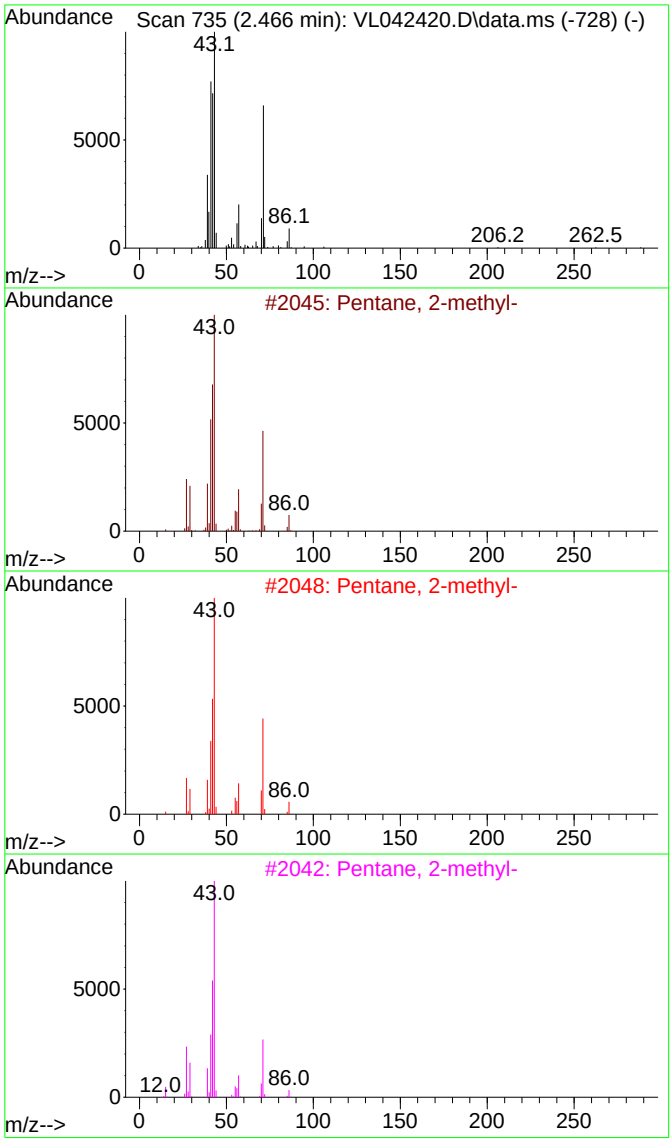
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

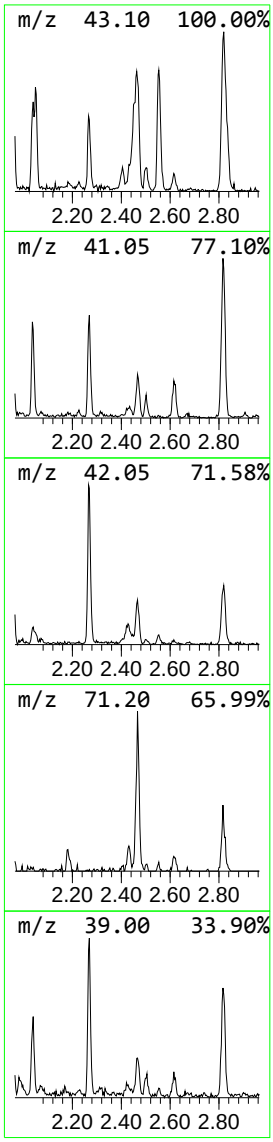
**********

Peak Number 4 Pentane, 2-methyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.466 | 1.85 ppbv | 103452 | Bromochloromethane | 2.777 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane, 2-methyl- | 86 | C6H14 | 000107-83-5 | 91 |
| 2 | Pentane, 2-methyl- | 86 | C6H14 | 000107-83-5 | 80 |
| 3 | Pentane, 2-methyl- | 86 | C6H14 | 000107-83-5 | 72 |
| 4 | Pentane, 2-methyl- | 86 | C6H14 | 000107-83-5 | 64 |
| 5 | Butane, 2,3-dimethyl- | 86 | C6H14 | 000079-29-8 | 50 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042420.D
Acq On : 28 Apr 2025 11:33
Operator : SY/MD
Sample : Q1665-07
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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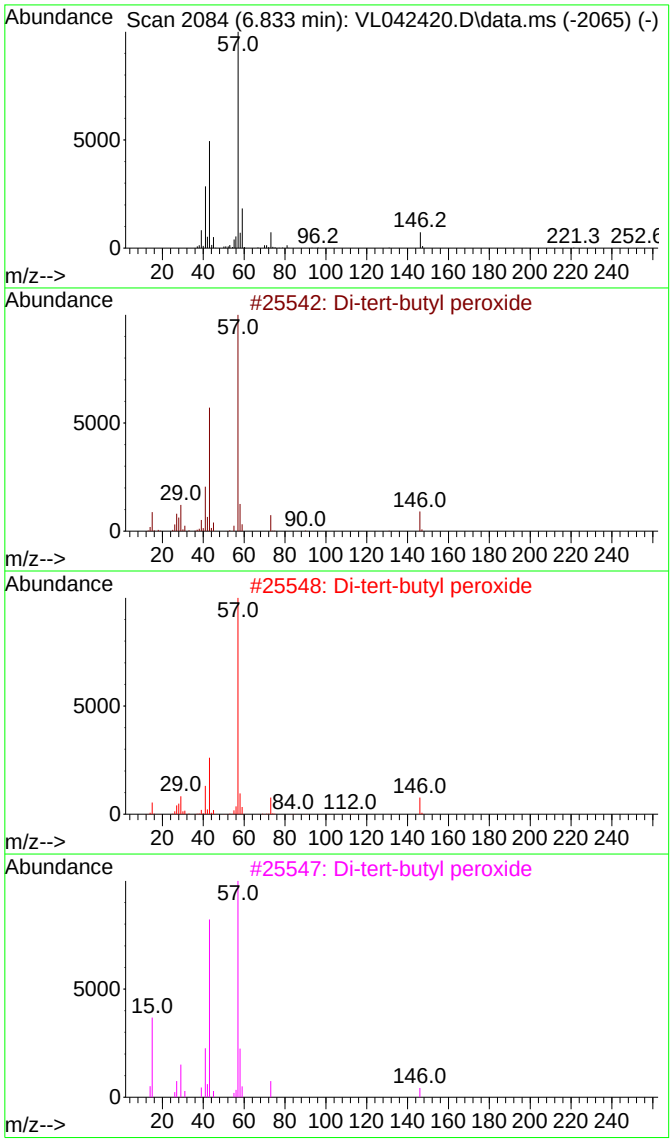
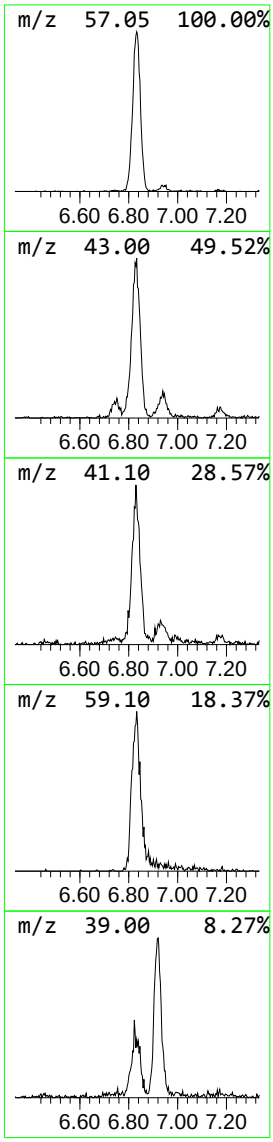
Peak Number 5 Di-tert-butyl peroxide Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.833 | 3.34 ppbv | 447186 | Chlorobenzene-d5 | 8.868 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Di-tert-butyl peroxide | 146 | C8H18O2 | 000110-05-4 | 59 |
| 2 | Di-tert-butyl peroxide | 146 | C8H18O2 | 000110-05-4 | 42 |
| 3 | Di-tert-butyl peroxide | 146 | C8H18O2 | 000110-05-4 | 40 |
| 4 | Phosphine, bis(1,1-dimethylethyl)- | 146 | C8H19P | 000819-19-2 | 37 |
| 5 | Propanoic acid, 2,2-dimethyl- | 102 | C5H10O2 | 000075-98-9 | 28 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042420.D
Acq On : 28 Apr 2025 11:33
Operator : SY/MD
Sample : Q1665-07
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

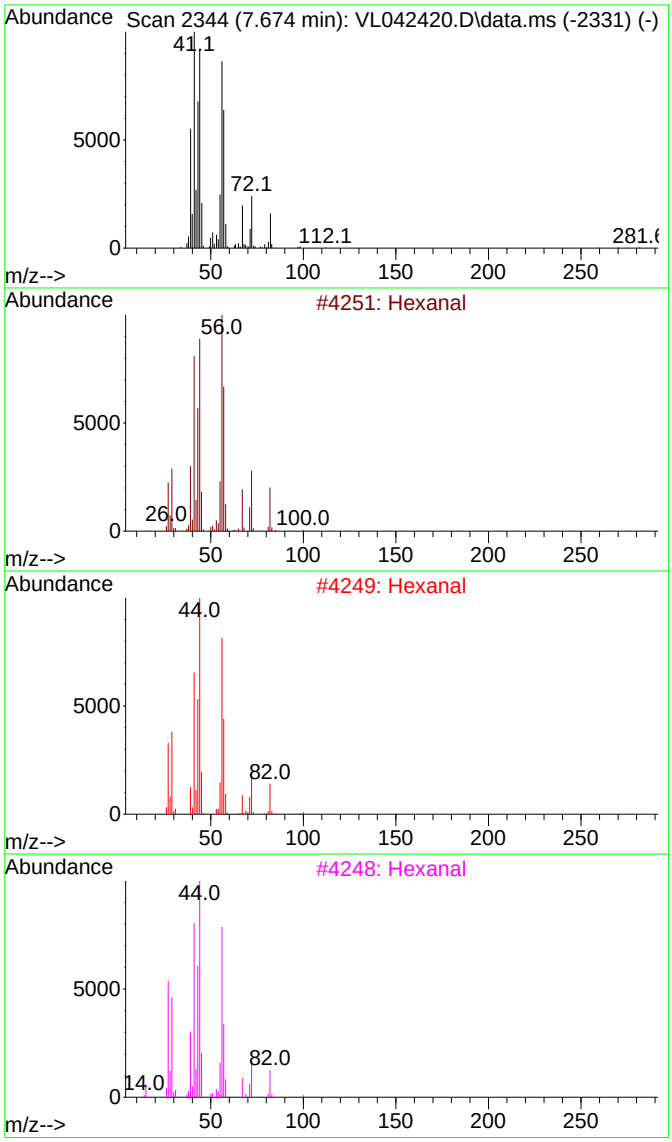
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

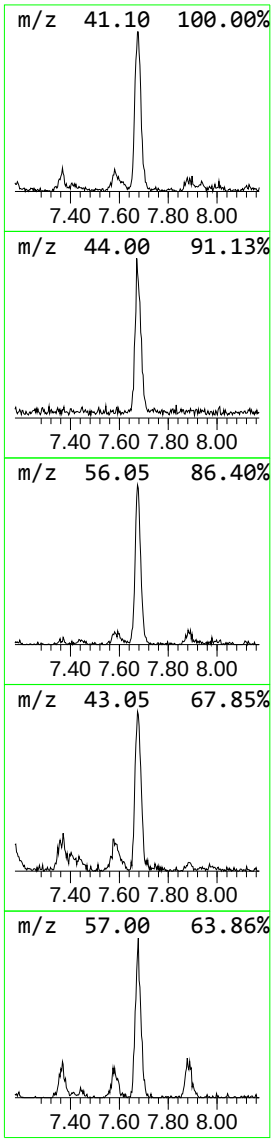
**********

Peak Number 6 Hexanal Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.674 | 1.88 ppbv | 252178 | Chlorobenzene-d5 | 8.868 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexanal | 100 | C6H12O | 000066-25-1 | 64 |
| 2 | Hexanal | 100 | C6H12O | 000066-25-1 | 64 |
| 3 | Hexanal | 100 | C6H12O | 000066-25-1 | 59 |
| 4 | Hexanal | 100 | C6H12O | 000066-25-1 | 50 |
| 5 | Hexanal | 100 | C6H12O | 000066-25-1 | 45 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042420.D
Acq On : 28 Apr 2025 11:33
Operator : SY/MD
Sample : Q1665-07
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

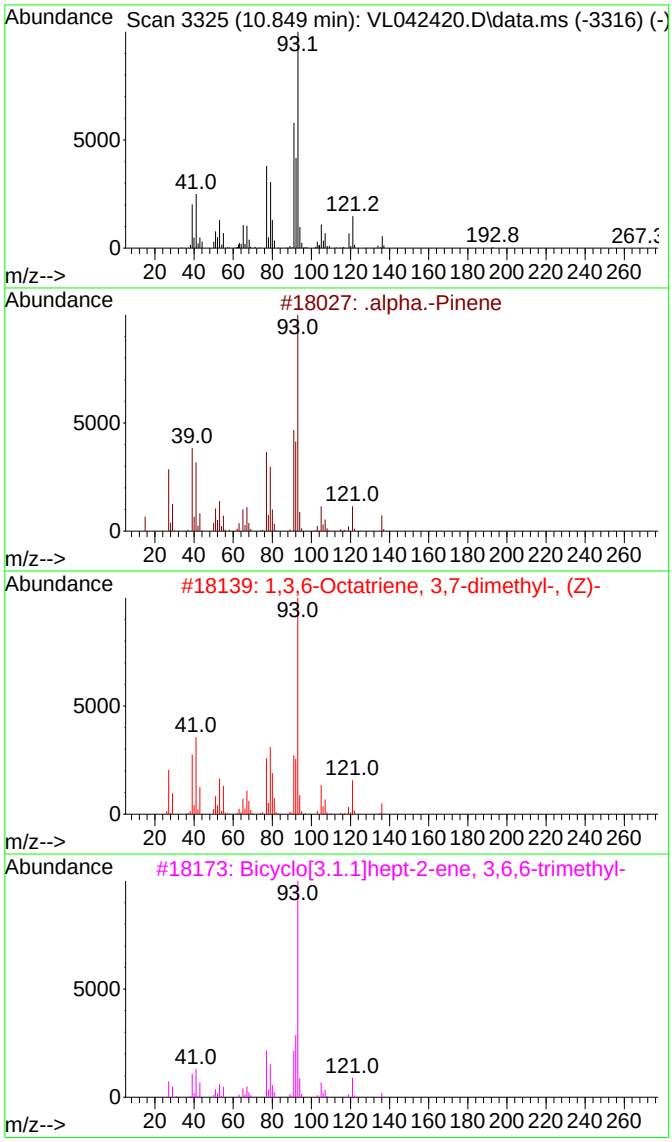
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

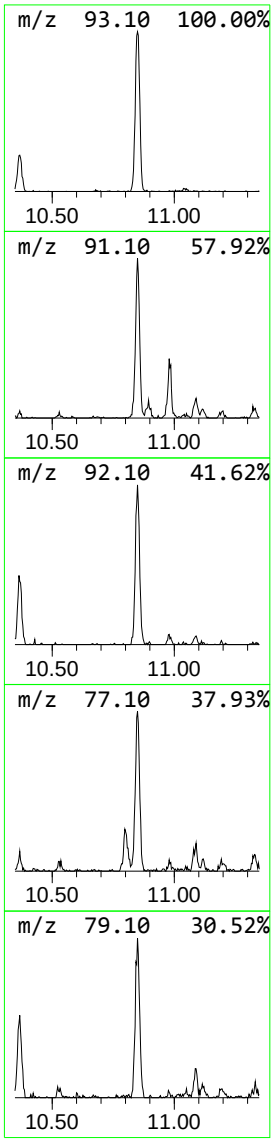
**********

Peak Number 8 .alpha.-Pinene Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.849 | 2.16 ppbv | 289624 | Chlorobenzene-d5 | 8.868 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | .alpha.-Pinene | 136 | C10H16 | 000080-56-8 | 94 |
| 2 | 1,3,6-Octatriene, 3,7-dimethyl-,... | 136 | C10H16 | 003338-55-4 | 93 |
| 3 | Bicyclo[3.1.1]hept-2-ene, 3,6,6-... | 136 | C10H16 | 004889-83-2 | 91 |
| 4 | 4-Carene, (1S,3S,6R)-(-)- | 136 | C10H16 | 005208-50-4 | 90 |
| 5 | .gamma.-Terpinene | 136 | C10H16 | 000099-85-4 | 87 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042420.D
Acq On : 28 Apr 2025 11:33
Operator : SY/MD
Sample : Q1665-07
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Butane | 1.618 | 5.4 | ppbv | 303366 | 1 | 2.777 | 557758 | 10.0 |
| 2-Fluoropropene | 2.269 | 3.5 | ppbv | 195359 | 1 | 2.777 | 557758 | 10.0 |
| Pentane, 2-methyl- | 2.466 | 1.9 | ppbv | 103452 | 1 | 2.777 | 557758 | 10.0 |
| Di-tert-butyl p... | 6.833 | 3.3 | ppbv | 447186 | 3 | 8.868 | 1339520 | 10.0 |
| Hexanal | 7.674 | 1.9 | ppbv | 252178 | 3 | 8.868 | 1339520 | 10.0 |
| .alpha.-Pinene | 10.849 | 2.2 | ppbv | 289624 | 3 | 8.868 | 1339520 | 10.0 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-DUP-1-3242025DL | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-07DL | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042451.D | 4 | | 04/29/25 17:37 | VL042925 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.84 | 4.15 | UD | 4.15 | 9.89 | ug/m3 |
| 64-17-5 | Ethanol | 280 | 528 | EDQ | 2.45 | 3.77 | ug/m3 |
| 74-87-3 | Chloromethane | 0.39 | 0.81 | UD | 0.81 | 4.13 | ug/m3 |
| 75-01-4 | Vinyl Chloride | 0.060 | 0.15 | UD | 0.15 | 0.31 | ug/m3 |
| 74-83-9 | Bromomethane | 0.56 | 2.17 | UD | 2.17 | 7.77 | ug/m3 |
| 75-00-3 | Chloroethane | 0.68 | 1.79 | UD | 1.79 | 5.28 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | 0.52 | 1.53 | UD | 1.53 | 5.90 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | 0.64 | 3.60 | UD | 3.60 | 11.2 | ug/m3 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.64 | 4.91 | UD | 4.91 | 15.3 | ug/m3 |
| 76-14-2 | Dichlorotetrafluoroethane | 0.35 | 2.45 | UD | 2.45 | 14.0 | ug/m3 |
| 593-60-2 | Bromoethene | 0.48 | 2.10 | UD | 2.10 | 8.74 | ug/m3 |
| 75-65-0 | tert-Butyl alcohol | 2.80 | 8.49 | D | 2.30 | 6.06 | ug/m3 |
| 142-82-5 | Heptane | 0.44 | 1.80 | UD | 1.80 | 8.20 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | 32.1 | 78.9 | D | 0.69 | 4.92 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethene | 0.56 | 2.22 | UD | 2.22 | 7.93 | ug/m3 |
| 67-64-1 | Acetone | 17.1 | 40.6 | D | 2.28 | 4.75 | ug/m3 |
| 75-15-0 | Carbon Disulfide | 0.64 | 1.99 | UD | 1.99 | 6.23 | ug/m3 |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.48 | 1.73 | UD | 1.73 | 7.21 | ug/m3 |
| 75-09-2 | Methylene Chloride | 0.76 | 2.64 | UD | 2.64 | 6.95 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.76 | 3.01 | UD | 3.01 | 7.93 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | 0.52 | 2.10 | UD | 2.10 | 8.09 | ug/m3 |
| 110-82-7 | Cyclohexane | 0.88 | 3.03 | UD | 3.03 | 6.88 | ug/m3 |
| 78-93-3 | 2-Butanone | 0.89 | 2.62 | JD | 1.42 | 5.90 | ug/m3 |
| 56-23-5 | Carbon Tetrachloride | 0.040 | 0.25 | UD | 0.25 | 0.75 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.36 | 1.43 | UD | 1.43 | 7.93 | ug/m3 |
| 67-66-3 | Chloroform | 0.33 | 1.61 | UD | 1.61 | 9.77 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.040 | 0.22 | UD | 0.22 | 0.65 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | 0.48 | 2.24 | JD | 1.87 | 9.34 | ug/m3 |
| 71-43-2 | Benzene | 0.40 | 1.28 | JD | 1.12 | 6.39 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | 0.36 | 1.46 | UD | 1.46 | 8.09 | ug/m3 |
| 79-01-6 | Trichloroethene | 0.070 | 0.38 | UD | 0.38 | 0.64 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | 0.44 | 2.03 | UD | 2.03 | 9.24 | ug/m3 |
| 75-27-4 | Bromodichloromethane | 0.31 | 2.08 | UD | 2.08 | 13.4 | ug/m3 |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.37 | 1.52 | UD | 1.52 | 8.20 | ug/m3 |
| 108-88-3 | Toluene | 3.20 | 12.1 | D | 1.66 | 7.54 | ug/m3 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-DUP-1-3242025DL | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-07DL | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042451.D | 4 | | 04/29/25 17:37 | VL042925 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.24 | 1.09 | UD | 1.09 | 9.08 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.26 | 1.18 | UD | 1.18 | 9.08 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.28 | 1.53 | UD | 1.53 | 10.9 | ug/m3 |
| 124-48-1 | Dibromochloromethane | 0.26 | 2.22 | UD | 2.22 | 17.0 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane | 0.29 | 2.23 | UD | 2.23 | 3.07 | ug/m3 |
| 127-18-4 | Tetrachloroethene | 0.060 | 0.41 | UD | 0.41 | 0.81 | ug/m3 |
| 108-90-7 | Chlorobenzene | 0.30 | 1.38 | UD | 1.38 | 9.21 | ug/m3 |
| 100-41-4 | Ethyl Benzene | 0.48 | 2.08 | UD | 2.08 | 8.69 | ug/m3 |
| 179601-23-1 | m/p-Xylene | 0.84 | 3.65 | UD | 3.65 | 17.4 | ug/m3 |
| 95-47-6 | o-Xylene | 0.48 | 2.08 | UD | 2.08 | 8.69 | ug/m3 |
| 100-42-5 | Styrene | 0.44 | 1.87 | UD | 1.87 | 8.52 | ug/m3 |
| 75-25-2 | Bromoform | 0.23 | 2.38 | UD | 2.38 | 20.7 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.040 | 0.27 | UD | 0.27 | 0.82 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | 0.44 | 2.28 | UD | 2.28 | 10.4 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.44 | 2.16 | UD | 2.16 | 9.83 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.31 | 1.52 | UD | 1.52 | 9.83 | ug/m3 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.32 | 1.92 | UD | 1.92 | 12.0 | ug/m3 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.21 | 1.26 | UD | 1.26 | 12.0 | ug/m3 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.30 | 1.80 | UD | 1.80 | 12.0 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.34 | 2.52 | UD | 2.52 | 14.8 | ug/m3 |
| 87-68-3 | Hexachloro-1,3-Butadiene | 0.34 | 3.63 | UD | 3.63 | 21.3 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | 0.52 | 1.15 | UD | 1.15 | 4.42 | ug/m3 |
| 91-20-3 | Naphthalene | 0.30 | 1.57 | UD | 1.57 | 2.10 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | 0.48 | 2.36 | UD | 2.36 | 9.83 | ug/m3 |
| 110-54-3 | Hexane | 1.60 | 5.64 | JD | 1.55 | 7.05 | ug/m3 |
| 107-05-1 | Allyl Chloride | 0.60 | 1.88 | UD | 1.88 | 6.26 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | 0.84 | 3.03 | UD | 3.03 | 7.21 | ug/m3 |
| 80-62-6 | Methyl Methacrylate | 0.34 | 1.39 | UD | 1.39 | 8.19 | ug/m3 |
| **SURROGATES** | | | | | | | |
| 460-00-4 | 1-Bromo-4-Fluorobenzene | 10.7 | | | 70 (65) - 130 (135) | 107% | SPK: 10 |
| **INTERNAL STANDARDS** | | | | | | | |
| 74-97-5 | Bromochloromethane | 116000 | | 2.797 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 307000 | | 3.972 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 261000 | | 8.895 | | | |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-DUP-1-3242025DL | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-07DL | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042451.D | 4 | | 04/29/25 17:37 | VL042925 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
Data File : VL042451.D
Acq On : 29 Apr 2025 17:37
Operator : SY/MD
Sample : Q1665-07DL 4X
Misc : 400mL/MSVOA_L
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 30 01:23:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025DL

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 2.797 | 49 | 116268 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.972 | 114 | 307149 | 10.000 | ppbv | | 0.01 |
| 55) Chlorobenzene-d5 | 8.895 | 117 | 260772 | 10.000 | ppbv | | 0.01 |
| System Monitoring Compounds | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.390 | 95 | 230005 | 10.733 | ppbv | | 0.01 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 107.300% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.502 | 85 | 2557 | 0.124 | ppbv | | 93 |
| 9) Propene | 1.492 | 41 | 3728 | 0.418 | ppbv | | 89 |
| 13) Ethanol | 1.725 | 45 | 99875 | 70.537 | ppbv | | 75 |
| 15) Acetone | 1.842 | 43 | 81145m | 4.263 | ppbv | | |
| 17) tert-Butyl alcohol | 2.049 | 59 | 16691 | 0.708 | ppbv | # | 88 |
| 19) Isopropyl Alcohol | 1.894 | 45 | 84766 | 8.017 | ppbv | # | 36 |
| 26) Hexane | 2.839 | 57 | 7600 | 0.400 | ppbv | # | 41 |
| 34) 2-Butanone | 2.570 | 43 | 5426 | 0.223 | ppbv | | 96 |
| 36) Benzene | 3.671 | 78 | 3299 | 0.100 | ppbv | | 95 |
| 44) 2,2,4-Trimethylpentane | 4.658 | 57 | 6925m | 0.121 | ppbv | | |
| 53) Toluene | 6.956 | 91 | 32058 | 0.806 | ppbv | | 99 |
| 59) m/p-Xylene | 9.548 | 91 | 7657m | 0.184 | ppbv | | |

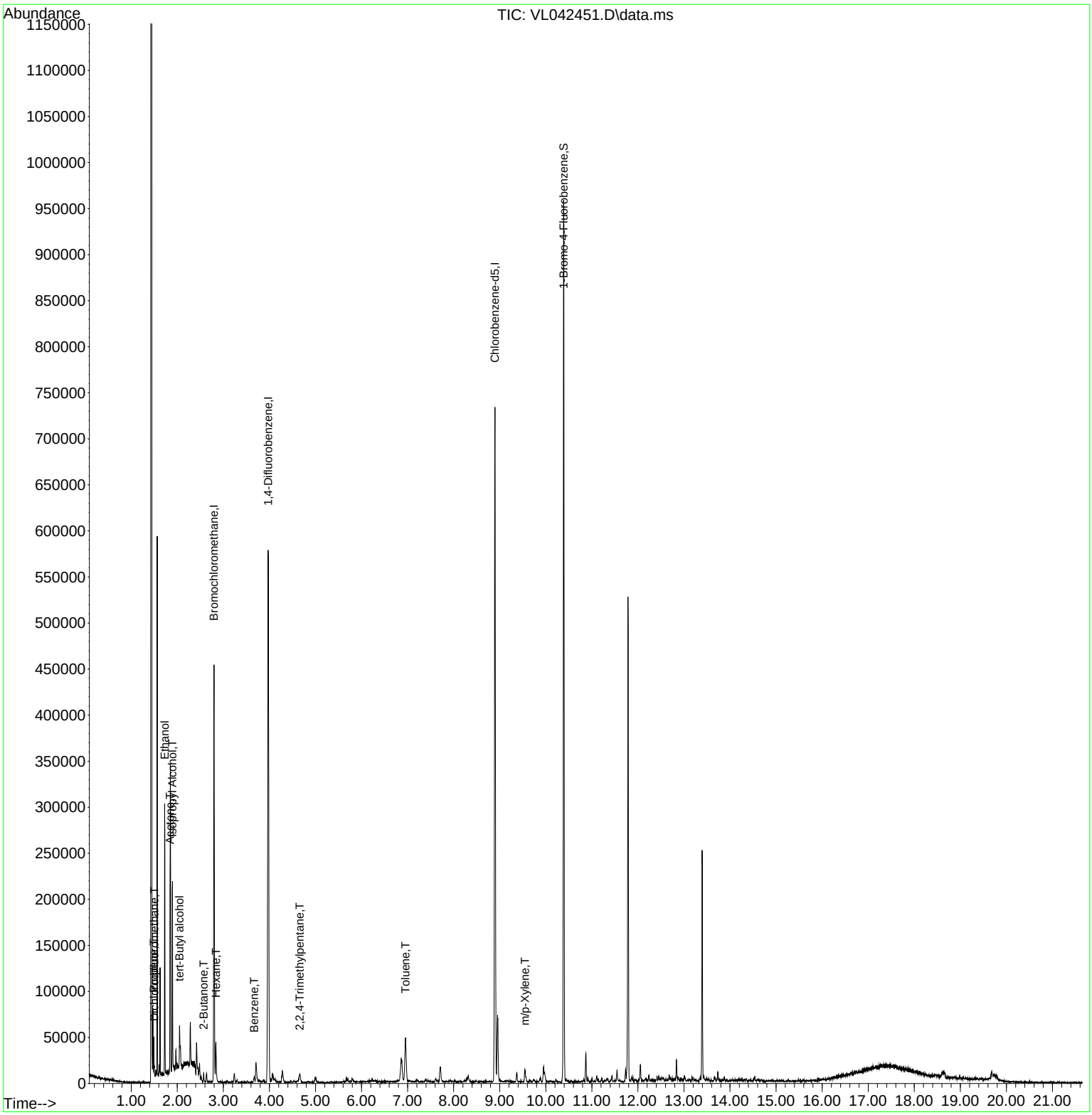
(#) = qualifier out of range (m) = manual integration (+) = signals summed

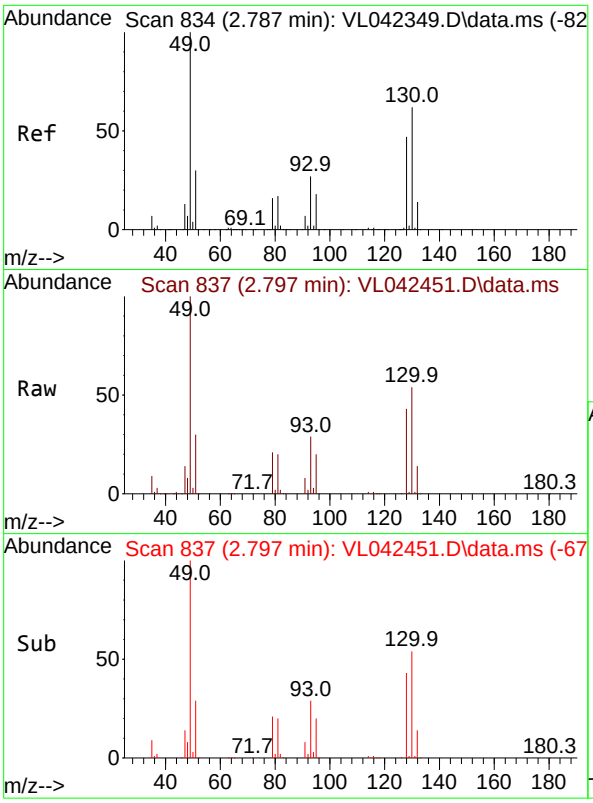
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
Data File : VL042451.D
Acq On : 29 Apr 2025 17:37
Operator : SY/MD
Sample : Q1665-07DL 4X
Misc : 400mL/MSVOA_L
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 30 01:23:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025DL

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025






#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 8
Delta R.T. 0.010 min
Lab File: VL042451.D
Acq: 29 Apr 2025 17:37

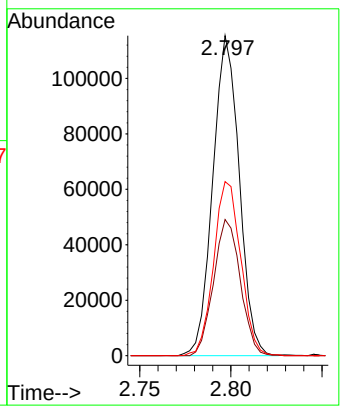
Tgt Ion: 49 Resp: 11626

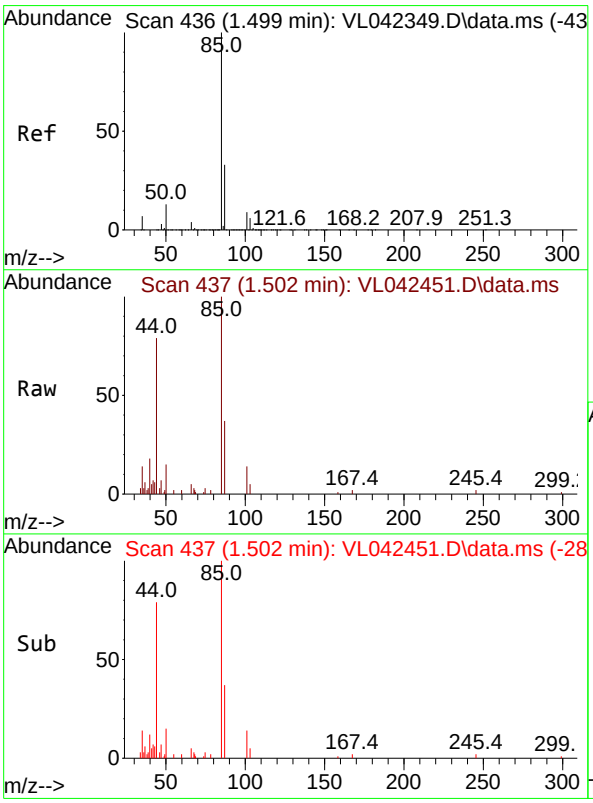
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 43.0 | 22.8 | 68.4 |
| 130 | 55.7 | 29.3 | 88.0 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025DL

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

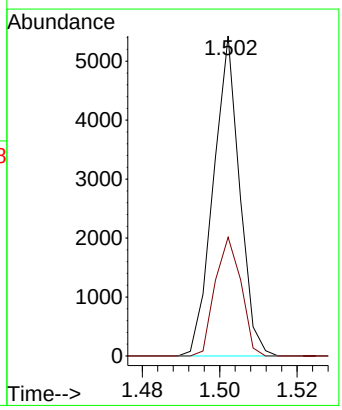


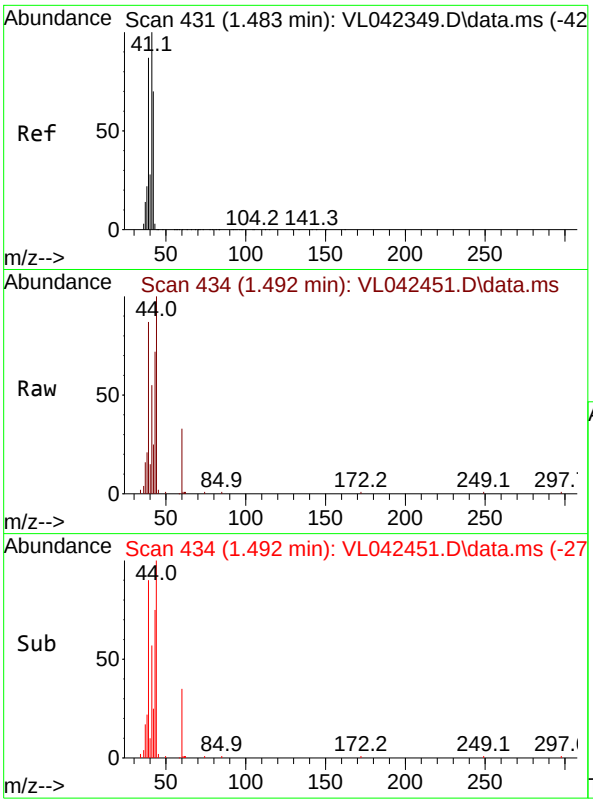




#2
Dichlorodifluoromethane
Concen: 0.124 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL042451.D
Acq: 29 Apr 2025 17:37

Tgt Ion: 85 Resp: 2557

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 37.1 | 26.6 | 39.8 |

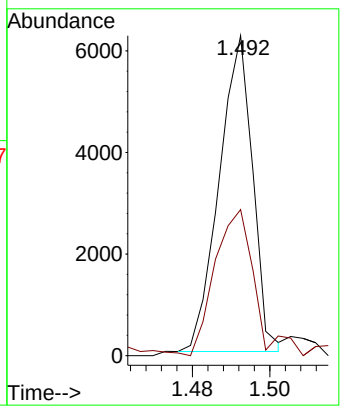





#9
Propene
Concen: 0.418 ppbv
RT: 1.492 min Scan# 4
Delta R.T. 0.010 min
Lab File: VL042451.D
Acq: 29 Apr 2025 17:37

Tgt Ion: 41 Resp: 372

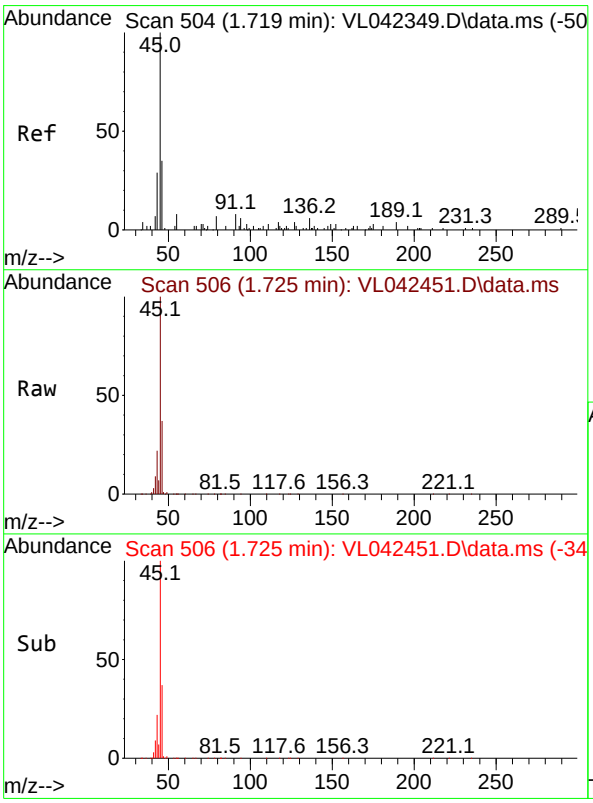
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 61.4 | 56.2 | 84.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025DL

**Manual Integrations**
**APPROVED**

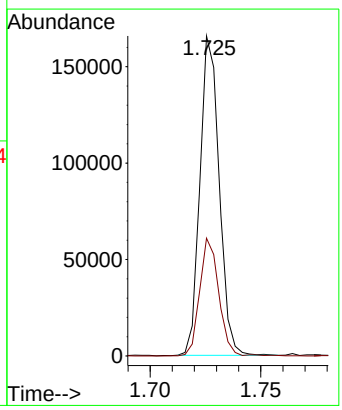
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

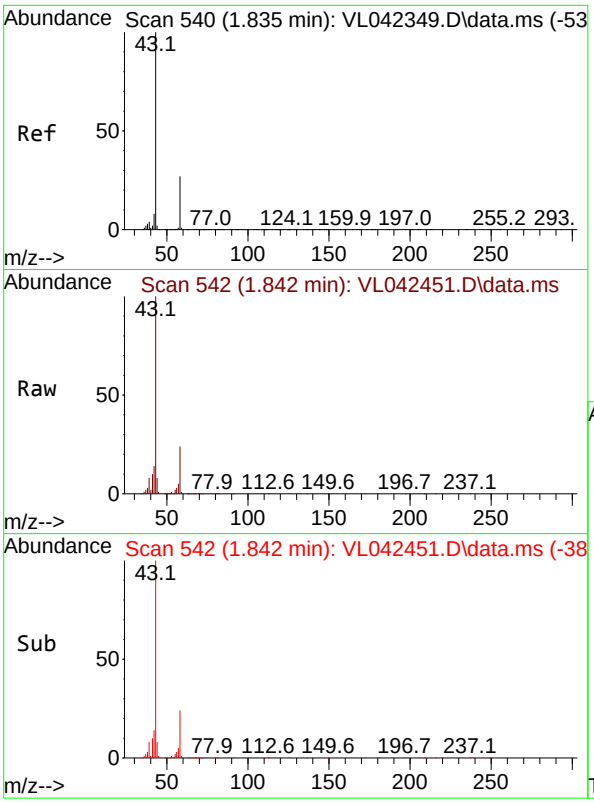



#13
Ethanol
Concen: 70.537 ppbv
RT: 1.725 min Scan# 506
Delta R.T. 0.007 min
Lab File: VL042451.D
Acq: 29 Apr 2025 17:37

Tgt Ion: 45 Resp: 99875

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 36.8 | 21.9 | 87.7 |

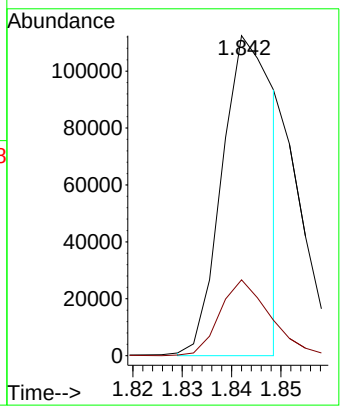





#15
Acetone
Concen: 4.263 ppbv m
RT: 1.842 min Scan# 54
Delta R.T. 0.007 min
Lab File: VL042451.D
Acq: 29 Apr 2025 17:37

Tgt Ion: 43 Resp: 8114

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 23.7 | 22.4 | 33.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025DL

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/30/2025
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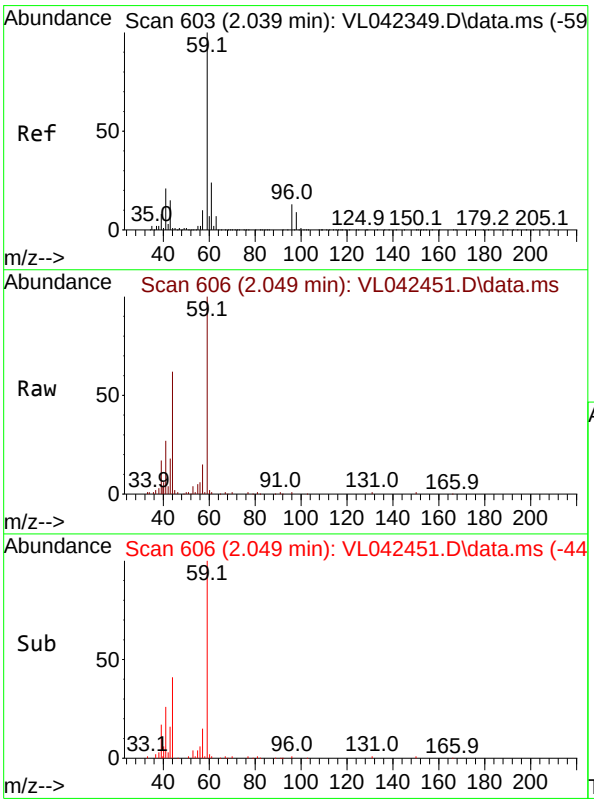
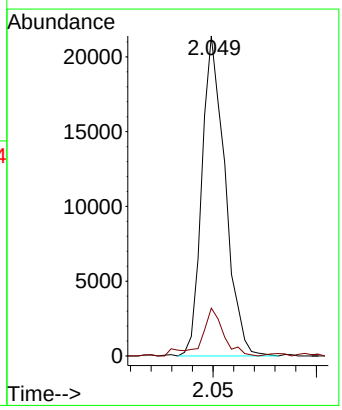
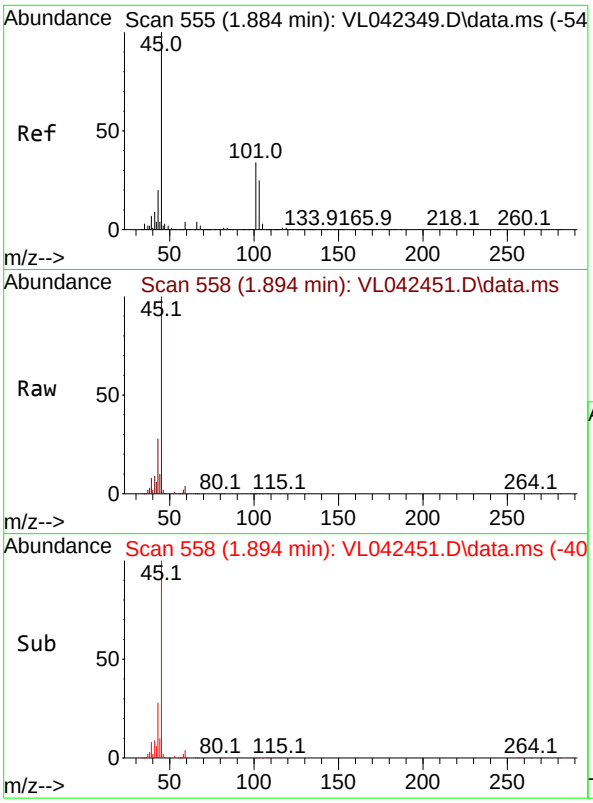



#17
tert-Butyl alcohol
Concen: 0.708 ppbv
RT: 2.049 min Scan# 606
Delta R.T. 0.010 min
Lab File: VL042451.D
Acq: 29 Apr 2025 17:37

Tgt Ion: 59 Resp: 16691

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 15.5 | 8.7 | 13.1# |






#19
Isopropyl Alcohol
Concen: 8.017 ppbv
RT: 1.894 min Scan# 5
Delta R.T. 0.010 min
Lab File: VL042451.D
Acq: 29 Apr 2025 17:37

Tgt Ion: 45 Resp: 8476

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 2.1 | 34.5 | 51.7# |

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025DL

**Manual Integrations**
**APPROVED**

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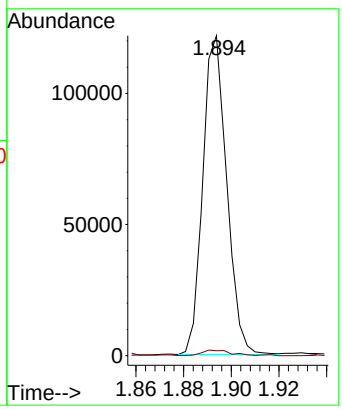
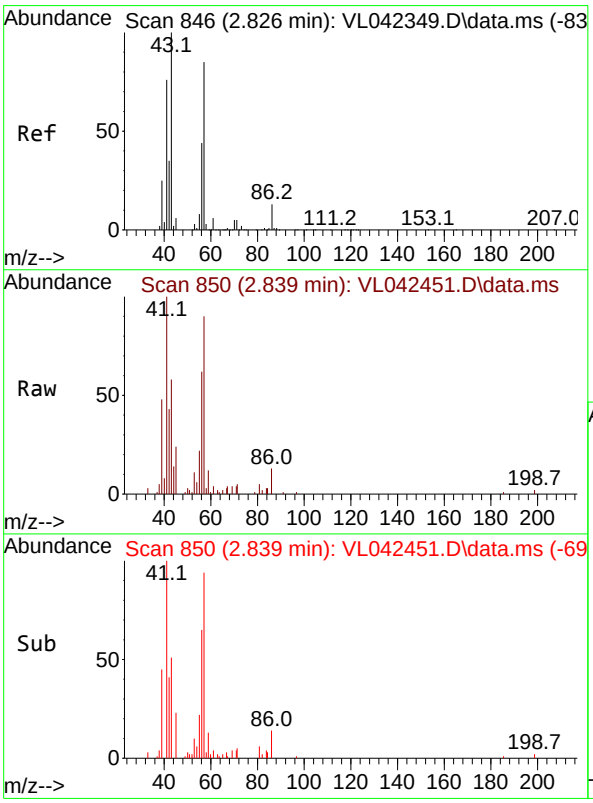
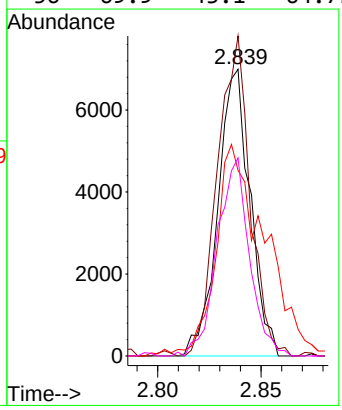


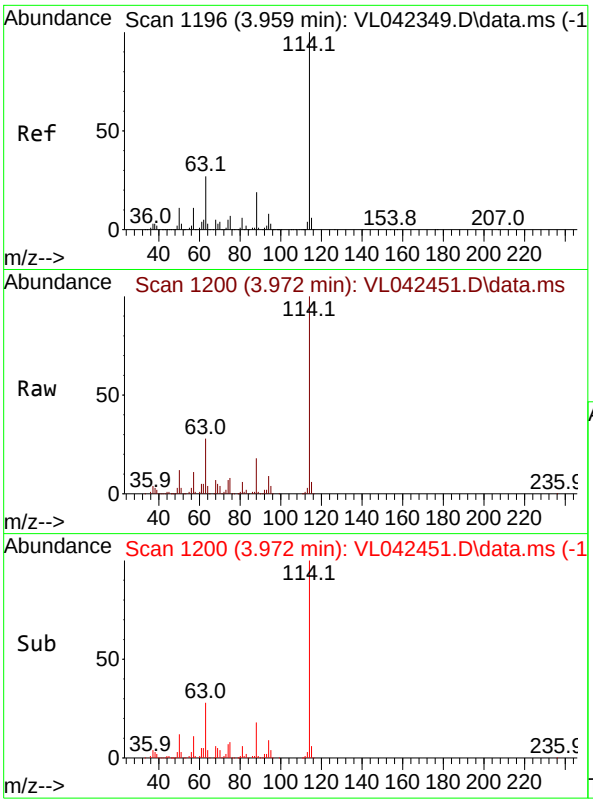




#26
Hexane
Concen: 0.400 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.013 min
Lab File: VL042451.D
Acq: 29 Apr 2025 17:37

Tgt Ion: 57 Resp: 7600

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 113.7 | 77.9 | 116.9 |
| 43 | 111.5 | 208.4 | 312.6# |
| 56 | 69.9 | 43.1 | 64.7# |

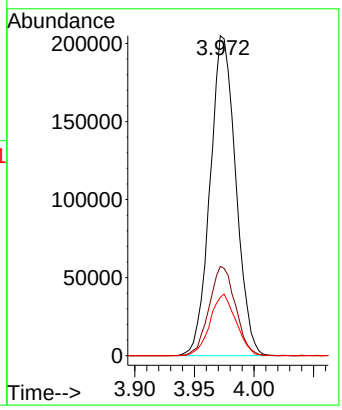





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.972 min Scan# 1
Delta R.T. 0.013 min
Lab File: VL042451.D
Acq: 29 Apr 2025 17:37

Tgt Ion:114 Resp: 30714

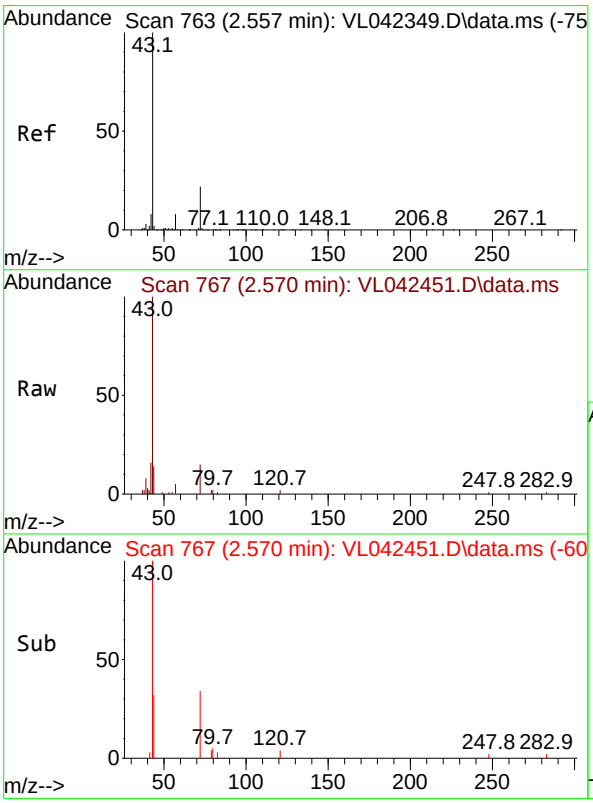
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 28.6 | 21.8 | 32.6 |
| 88 | 19.5 | 15.5 | 23.3 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025DL

**Manual Integrations**
**APPROVED**

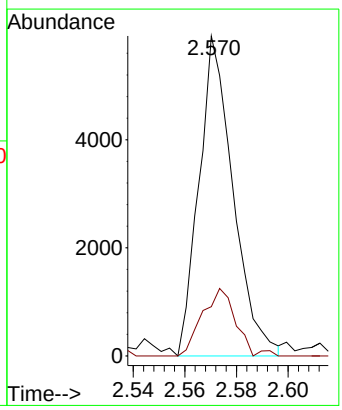
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

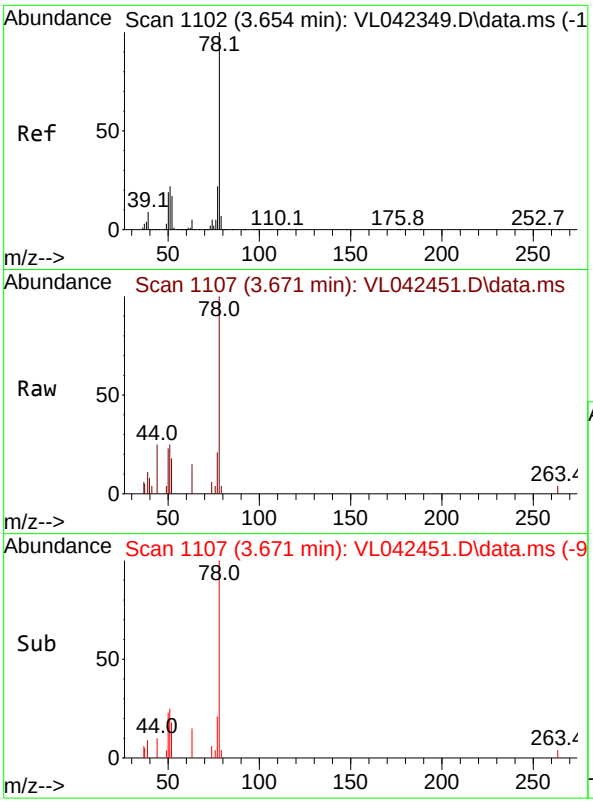



#34
2-Butanone
Concen: 0.223 ppbv
RT: 2.570 min Scan# 767
Delta R.T. 0.013 min
Lab File: VL042451.D
Acq: 29 Apr 2025 17:37

Tgt Ion: 43 Resp: 5426

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 20.8 | 18.2 | 27.2 |

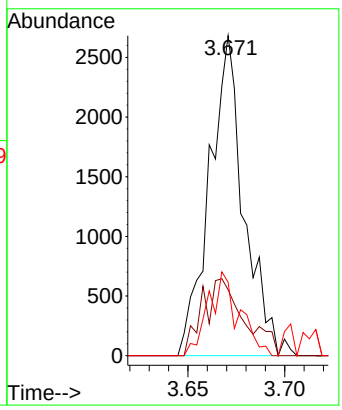





#36
Benzene
Concen: 0.100 ppbv
RT: 3.671 min Scan# 11
Delta R.T. 0.016 min
Lab File: VL042451.D
Acq: 29 Apr 2025 17:37

Tgt Ion: 78 Resp: 329

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 20.6 | 17.4 | 26.0 |
| 50 | 23.0 | 15.5 | 23.3 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025DL

**Manual Integrations**
**APPROVED**

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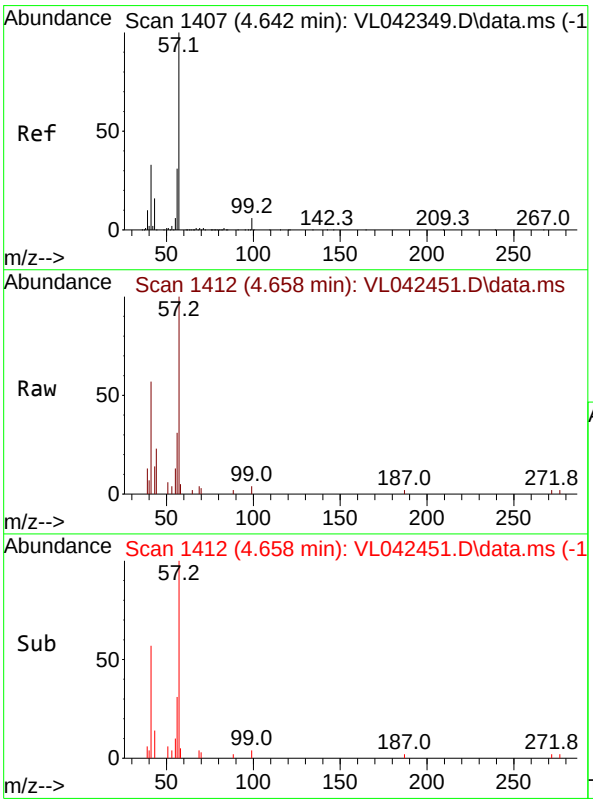
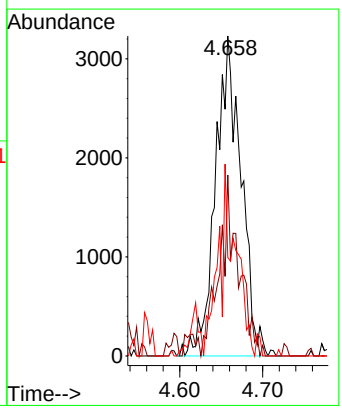
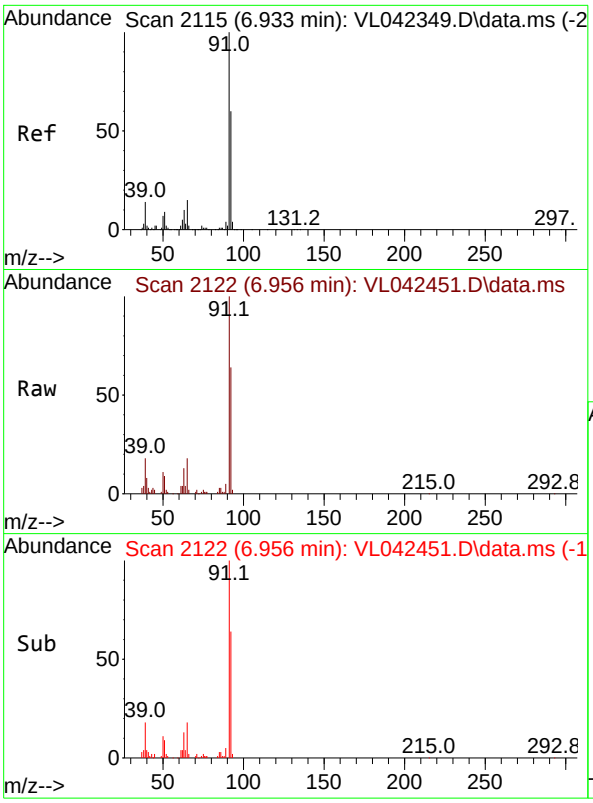



#44
2,2,4-Trimethylpentane
Concen: 0.121 ppbv m
RT: 4.658 min Scan# 1412
Delta R.T. 0.016 min
Lab File: VL042451.D
Acq: 29 Apr 2025 17:37

Tgt Ion: 57 Resp: 6925

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 45.6 | 27.2 | 40.8# |
| 56 | 46.2 | 25.7 | 38.5# |

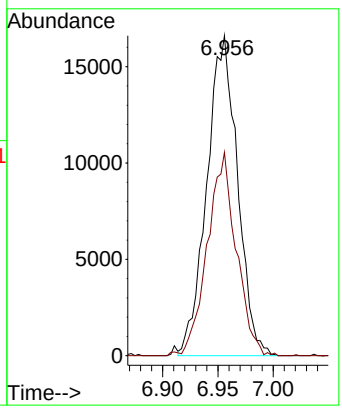





#53
Toluene
Concen: 0.806 ppbv
RT: 6.956 min Scan# 21
Delta R.T. 0.023 min
Lab File: VL042451.D
Acq: 29 Apr 2025 17:37

Tgt Ion: 91 Resp: 3205

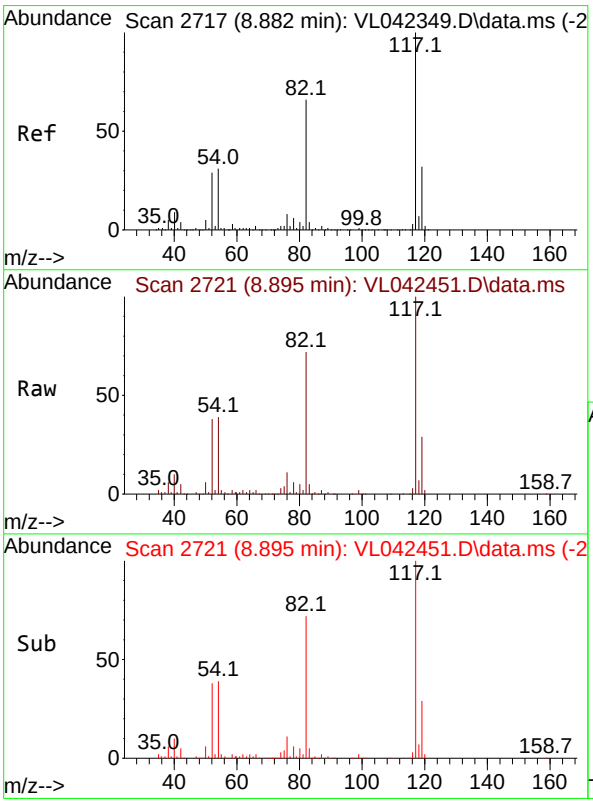
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 59.8 | 48.2 | 72.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025DL

**Manual Integrations**
**APPROVED**

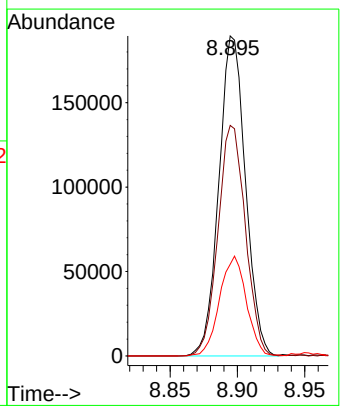
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

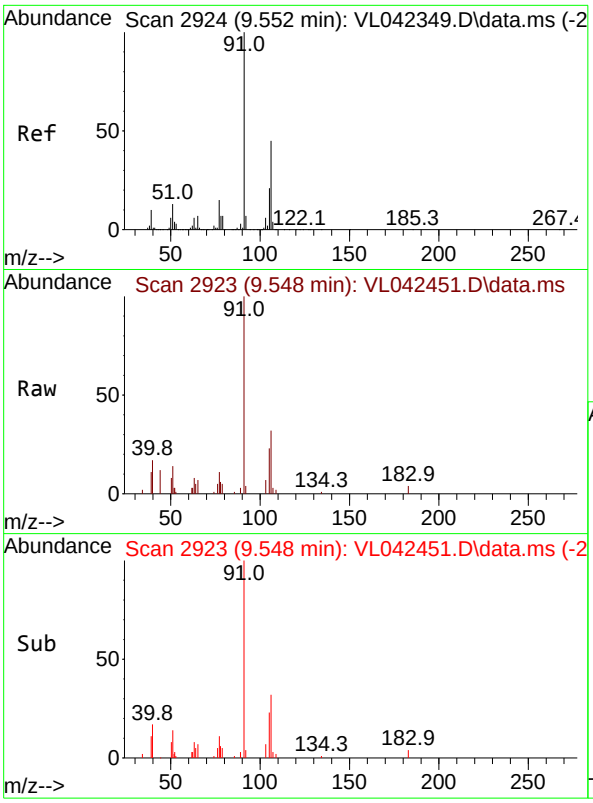



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.895 min Scan# 2721
Delta R.T. 0.013 min
Lab File: VL042451.D
Acq: 29 Apr 2025 17:37

Tgt Ion:117 Resp: 260772

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 74.0 | 57.8 | 86.6 |
| 119 | 31.5 | 25.2 | 37.8 |






#59
m/p-Xylene
Concen: 0.184 ppbv m
RT: 9.548 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042451.D
Acq: 29 Apr 2025 17:37

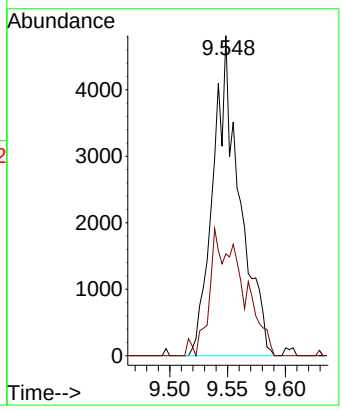
Tgt Ion: 91 Resp: 765

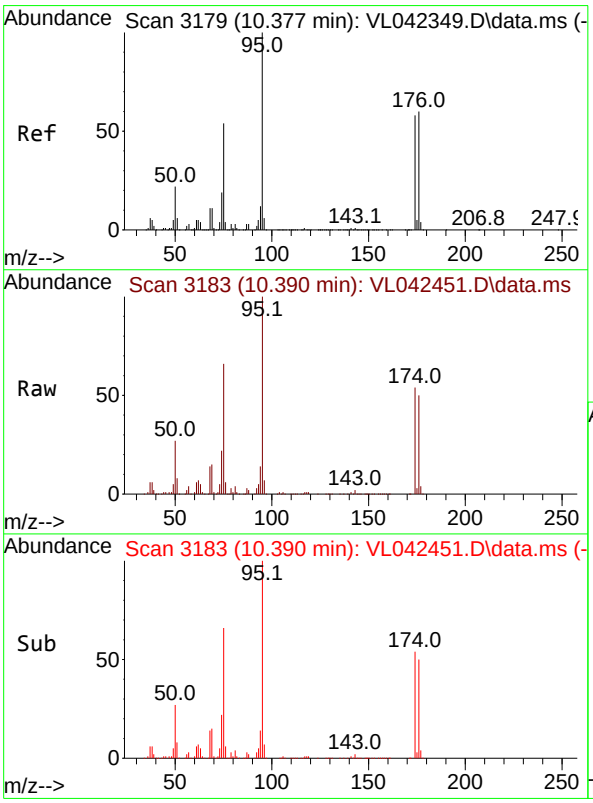
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 0.0 | 35.4 | 53.2 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025DL

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

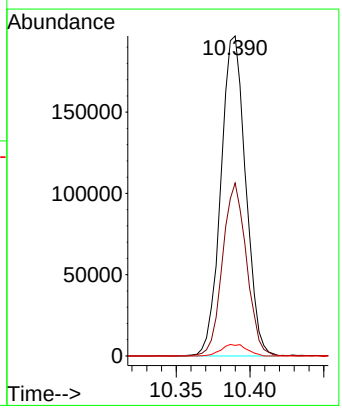



#68
1-Bromo-4-Fluorobenzene
Concen: 10.733 ppbv
RT: 10.390 min Scan# 3183
Delta R.T. 0.013 min
Lab File: VL042451.D
Acq: 29 Apr 2025 17:37

Tgt Ion: 95 Resp: 230005

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 52.2 | 48.5 | 72.7 |
| 175 | 3.8 | 3.7 | 5.5 |



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/24/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-DUP-2-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-08 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042294.D | 1 | | 04/09/25 15:50 | VL040925 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.38 | 1.88 | J | 1.04 | 2.47 | ug/m3 |
| 64-17-5 | Ethanol | 34.2 | 64.4 | EQ | 0.60 | 0.94 | ug/m3 |
| 74-87-3 | Chloromethane | 1.10 | 2.27 | | 0.21 | 1.03 | ug/m3 |
| 75-01-4 | Vinyl Chloride | 0.010 | 0.030 | U | 0.030 | 0.080 | ug/m3 |
| 74-83-9 | Bromomethane | 0.14 | 0.54 | U | 0.54 | 1.94 | ug/m3 |
| 75-00-3 | Chloroethane | 0.17 | 0.45 | U | 0.45 | 1.32 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | 0.21 | 0.62 | J | 0.38 | 1.47 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | 0.25 | 1.40 | J | 0.90 | 2.81 | ug/m3 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.16 | 1.23 | U | 1.23 | 3.83 | ug/m3 |
| 76-14-2 | Dichlorotetrafluoroethane | 0.090 | 0.63 | U | 0.63 | 3.49 | ug/m3 |
| 593-60-2 | Bromoethene | 0.12 | 0.52 | U | 0.52 | 2.19 | ug/m3 |
| 75-65-0 | tert-Butyl alcohol | 0.19 | 0.58 | U | 0.58 | 1.52 | ug/m3 |
| 142-82-5 | Heptane | 0.11 | 0.45 | U | 0.45 | 2.05 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | 17.9 | 44.0 | E | 0.17 | 1.23 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethene | 0.14 | 0.56 | U | 0.56 | 1.98 | ug/m3 |
| 67-64-1 | Acetone | 11.6 | 27.6 | | 0.57 | 1.19 | ug/m3 |
| 75-15-0 | Carbon Disulfide | 0.16 | 0.50 | U | 0.50 | 1.56 | ug/m3 |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.12 | 0.43 | U | 0.43 | 1.80 | ug/m3 |
| 75-09-2 | Methylene Chloride | 1.00 | 3.47 | | 0.66 | 1.74 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.19 | 0.75 | U | 0.75 | 1.98 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | 0.13 | 0.53 | U | 0.53 | 2.02 | ug/m3 |
| 110-82-7 | Cyclohexane | 0.22 | 0.76 | U | 0.76 | 1.72 | ug/m3 |
| 78-93-3 | 2-Butanone | 3.30 | 9.73 | | 0.35 | 1.47 | ug/m3 |
| 56-23-5 | Carbon Tetrachloride | 0.13 | 0.82 | | 0.060 | 0.19 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.090 | 0.36 | U | 0.36 | 1.98 | ug/m3 |
| 67-66-3 | Chloroform | 0.32 | 1.56 | J | 0.39 | 2.44 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.010 | 0.050 | U | 0.050 | 0.16 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | 0.10 | 0.47 | U | 0.47 | 2.34 | ug/m3 |
| 71-43-2 | Benzene | 0.17 | 0.54 | J | 0.29 | 1.60 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | 0.090 | 0.36 | U | 0.36 | 2.02 | ug/m3 |
| 79-01-6 | Trichloroethene | 0.020 | 0.11 | U | 0.11 | 0.16 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | 0.11 | 0.51 | U | 0.51 | 2.31 | ug/m3 |
| 75-27-4 | Bromodichloromethane | 0.080 | 0.54 | U | 0.54 | 3.35 | ug/m3 |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.090 | 0.37 | U | 0.37 | 2.05 | ug/m3 |
| 108-88-3 | Toluene | 0.11 | 0.41 | U | 0.41 | 1.88 | ug/m3 |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/24/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-DUP-2-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-08 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042294.D | 1 | | 04/09/25 15:50 | VL040925 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.060 | 0.27 | U | 0.27 | 2.27 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.060 | 0.27 | U | 0.27 | 2.27 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.070 | 0.38 | U | 0.38 | 2.73 | ug/m3 |
| 124-48-1 | Dibromochloromethane | 0.070 | 0.60 | U | 0.60 | 4.26 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane | 0.070 | 0.54 | U | 0.54 | 0.77 | ug/m3 |
| 127-18-4 | Tetrachloroethene | 0.020 | 0.14 | U | 0.14 | 0.20 | ug/m3 |
| 108-90-7 | Chlorobenzene | 0.080 | 0.37 | U | 0.37 | 2.30 | ug/m3 |
| 100-41-4 | Ethyl Benzene | 0.12 | 0.52 | U | 0.52 | 2.17 | ug/m3 |
| 179601-23-1 | m/p-Xylene | 0.21 | 0.91 | U | 0.91 | 4.34 | ug/m3 |
| 95-47-6 | o-Xylene | 0.12 | 0.52 | U | 0.52 | 2.17 | ug/m3 |
| 100-42-5 | Styrene | 0.11 | 0.47 | U | 0.47 | 2.13 | ug/m3 |
| 75-25-2 | Bromoform | 0.060 | 0.62 | U | 0.62 | 5.17 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.010 | 0.070 | U | 0.070 | 0.21 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | 0.11 | 0.57 | U | 0.57 | 2.59 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.11 | 0.54 | U | 0.54 | 2.46 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.080 | 0.39 | U | 0.39 | 2.46 | ug/m3 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.080 | 0.48 | U | 0.48 | 3.01 | ug/m3 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.050 | 0.30 | U | 0.30 | 3.01 | ug/m3 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.080 | 0.48 | U | 0.48 | 3.01 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.090 | 0.67 | U | 0.67 | 3.71 | ug/m3 |
| 87-68-3 | Hexachloro-1,3-Butadiene | 0.090 | 0.96 | U | 0.96 | 5.33 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | 0.13 | 0.29 | U | 0.29 | 1.11 | ug/m3 |
| 91-20-3 | Naphthalene | 0.080 | 0.42 | U | 0.42 | 0.52 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | 0.12 | 0.59 | U | 0.59 | 2.46 | ug/m3 |
| 110-54-3 | Hexane | 0.94 | 3.31 | | 0.39 | 1.76 | ug/m3 |
| 107-05-1 | Allyl Chloride | 0.15 | 0.47 | U | 0.47 | 1.57 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | 0.21 | 0.76 | U | 0.76 | 1.80 | ug/m3 |
| 80-62-6 | Methyl Methacrylate | 0.090 | 0.37 | U | 0.37 | 2.05 | ug/m3 |
| **SURROGATES** | | | | | | | |
| 460-00-4 | 1-Bromo-4-Fluorobenzene | 9.10 | | | 70 (65) - 130 (135) | 91% | SPK: 10 |
| **INTERNAL STANDARDS** | | | | | | | |
| 74-97-5 | Bromochloromethane | 159000 | | 2.787 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 385000 | | 3.959 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 315000 | | 8.882 | | | |
| **TENTITIVE IDENTIFIED COMPOUNDS** | | | | | | | |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/24/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-DUP-2-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-08 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042294.D | 1 | | 04/09/25 15:50 | VL040925 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 75-45-6 | Chlorodifluoromethane | 0.96 | | J | | 1.48 | ppbv |
| 115-07-1 | Propene | 2.40 | | J | | 1.49 | ppbv |
| 000106-97-8 | Butane | 1.30 | | J | | 1.62 | ppbv |

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042294.D
Acq On : 09 Apr 2025 15:50
Operator : SY/MD
Sample : Q1665-08
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 01:45:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-2-3242025

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) Bromochloromethane | 2.787 | 49 | 159184 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.959 | 114 | 384747 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.882 | 117 | 314874 | 10.000 | ppbv | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95 | 236151 | 9.133 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 91.300% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.499 | 85 | 9013 | 0.383 | ppbv | | 100 |
| 3) Chlorodifluoromethane | 1.476 | 51 | 22919m | 0.955 | ppbv | | |
| 4) Chloromethane | 1.534 | 50 | 10945 | 1.139 | ppbv | | 99 |
| 9) Propene | 1.489 | 41 | 26110m | 2.372 | ppbv | | |
| 11) Trichlorofluoromethane | 1.877 | 101 | 5632 | 0.246 | ppbv | | 99 |
| 13) Ethanol | 1.722 | 45 | 35576 | 34.196 | ppbv | | 82 |
| 15) Acetone | 1.835 | 43 | 257522 | 11.567 | ppbv | | 96 |
| 17) tert-Butyl alcohol | 2.046 | 59 | 3101m | 0.112 | ppbv | | |
| 19) Isopropyl Alcohol | 1.887 | 45 | 224606 | 17.881 | ppbv | # | 33 |
| 20) Methylene Chloride | 2.062 | 84 | 8683 | 1.047 | ppbv | # | 84 |
| 26) Hexane | 2.829 | 57 | 20910 | 0.937 | ppbv | # | 31 |
| 29) Chloroform | 2.848 | 83 | 10374 | 0.318 | ppbv | | 96 |
| 34) 2-Butanone | 2.560 | 43 | 91945 | 3.296 | ppbv | | 97 |
| 35) Carbon Tetrachloride | 3.764 | 117 | 3816m | 0.127 | ppbv | | |
| 36) Benzene | 3.661 | 78 | 6378m | 0.167 | ppbv | | |
| 41) Tetrahydrofuran | 3.069 | 42 | 3356m | 0.209 | ppbv | | |

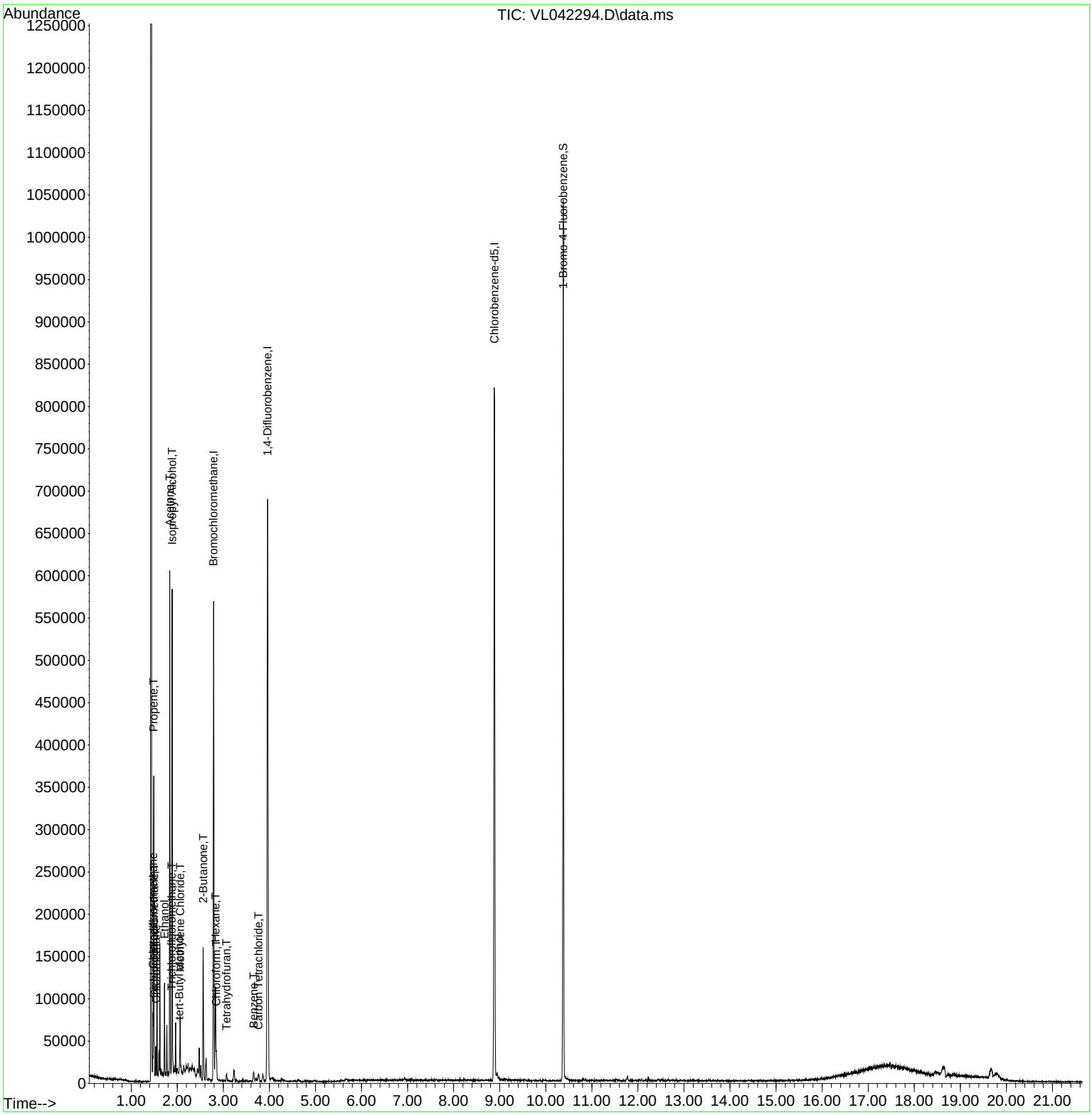
(#) = qualifier out of range (m) = manual integration (+) = signals summed

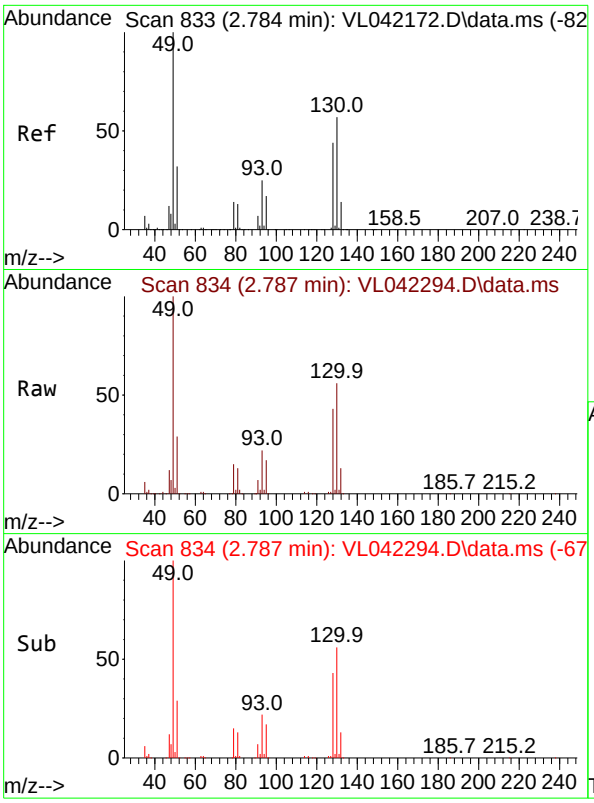
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042294.D
Acq On : 09 Apr 2025 15:50
Operator : SY/MD
Sample : Q1665-08
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 01:45:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-2-3242025

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

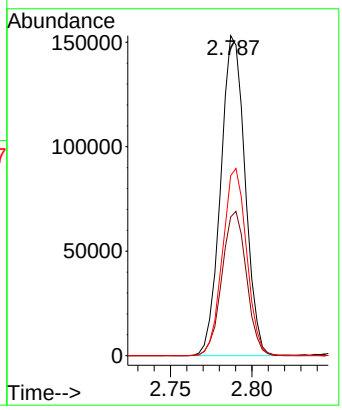





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

Tgt Ion: 49 Resp: 15918

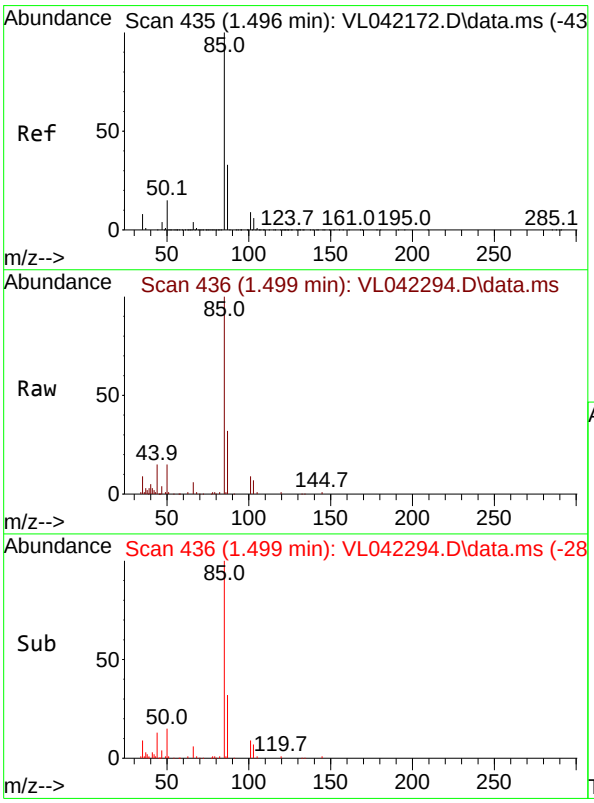
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 45.2 | 22.9 | 68.5 |
| 130 | 57.8 | 28.8 | 86.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-2-3242025

**Manual Integrations**
**APPROVED**

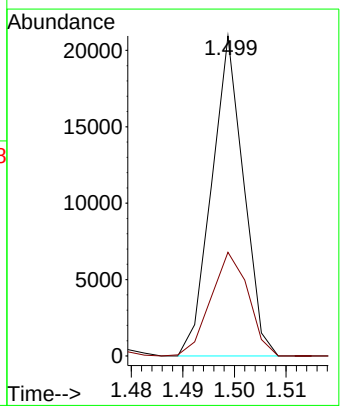
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

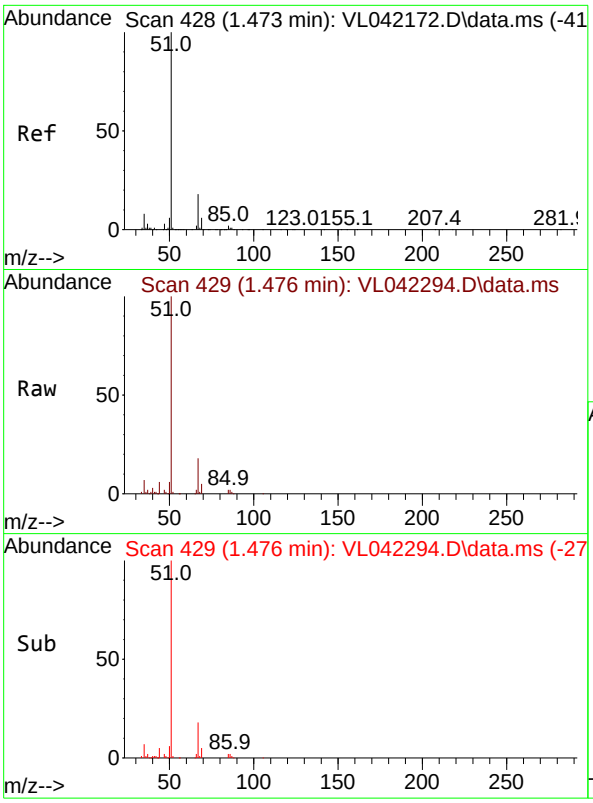



#2
Dichlorodifluoromethane
Concen: 0.383 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

Tgt Ion: 85 Resp: 9013

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.4 | 26.1 | 39.1 |

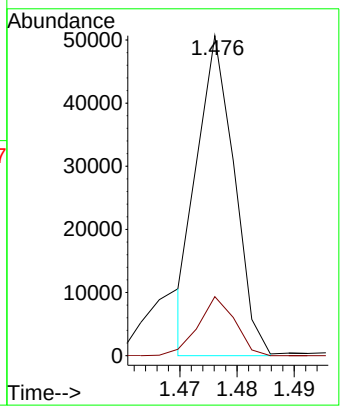





#3
Chlorodifluoromethane
Concen: 0.955 ppbv m
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

Tgt Ion: 51 Resp: 2291

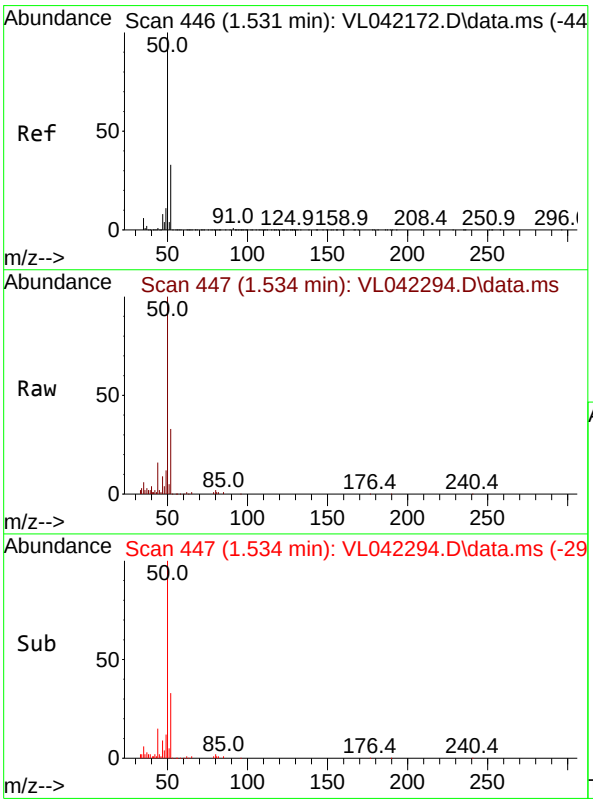
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 18.4 | 15.0 | 22.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-2-3242025

**Manual Integrations**
**APPROVED**

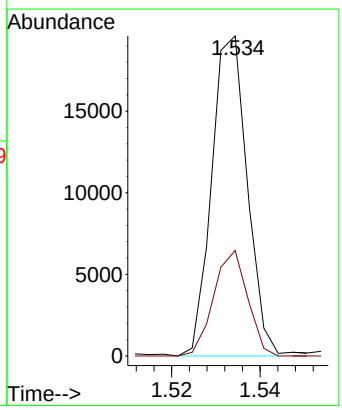
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

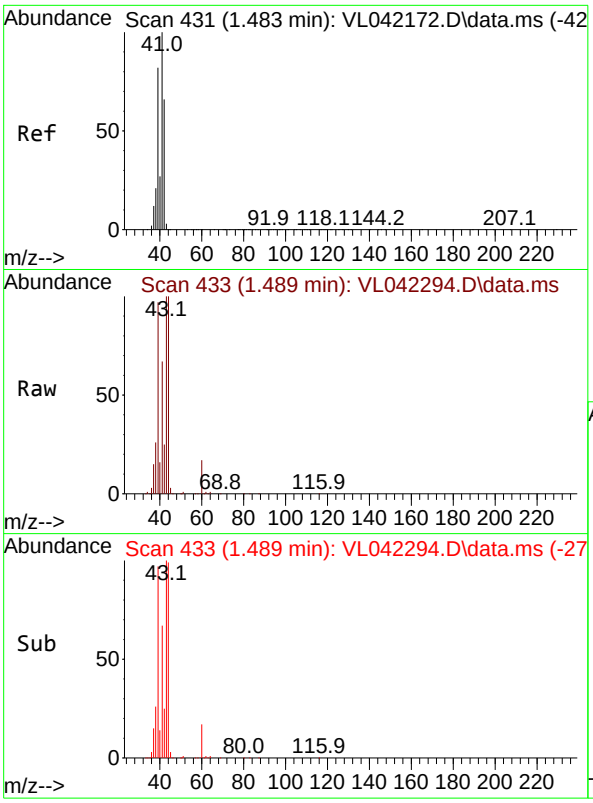



#4
Chloromethane
Concen: 1.139 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

Tgt Ion: 50 Resp: 10945

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.9 | 26.1 | 39.1 |

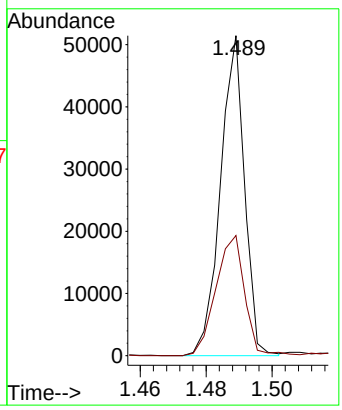





#9
Propene
Concen: 2.372 ppbv m
RT: 1.489 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

Tgt Ion: 41 Resp: 2611

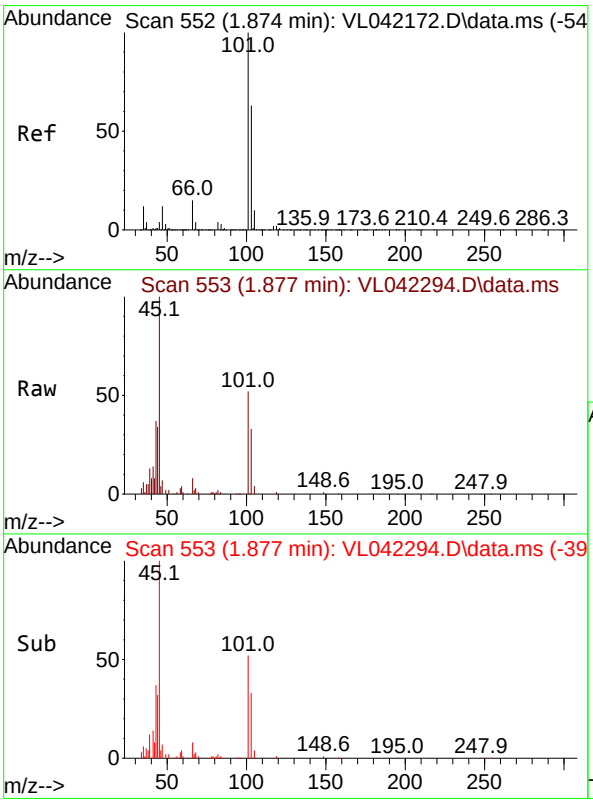
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 55.8 | 55.4 | 83.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-2-3242025

**Manual Integrations**
**APPROVED**

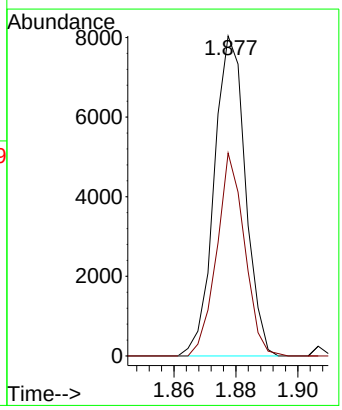
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

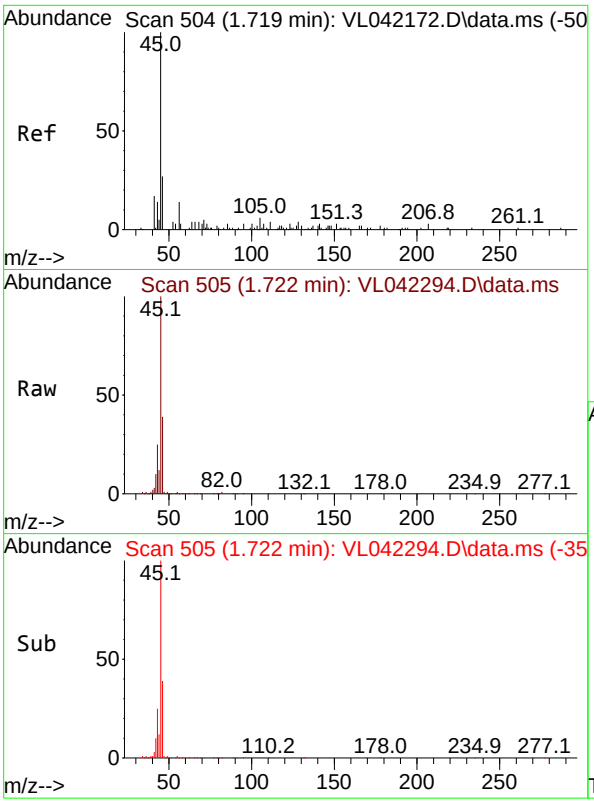



#11
Trichlorofluoromethane
Concen: 0.246 ppbv
RT: 1.877 min Scan# 553
Delta R.T. 0.003 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

Tgt Ion:101 Resp: 5632

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.4 | 50.2 | 75.2 |

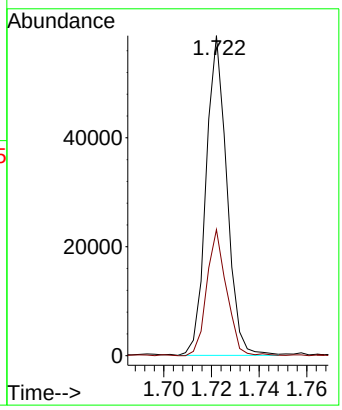





#13
Ethanol
Concen: 34.196 ppbv
RT: 1.722 min Scan# 5(
Delta R.T. 0.003 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

Tgt Ion: 45 Resp: 3557(

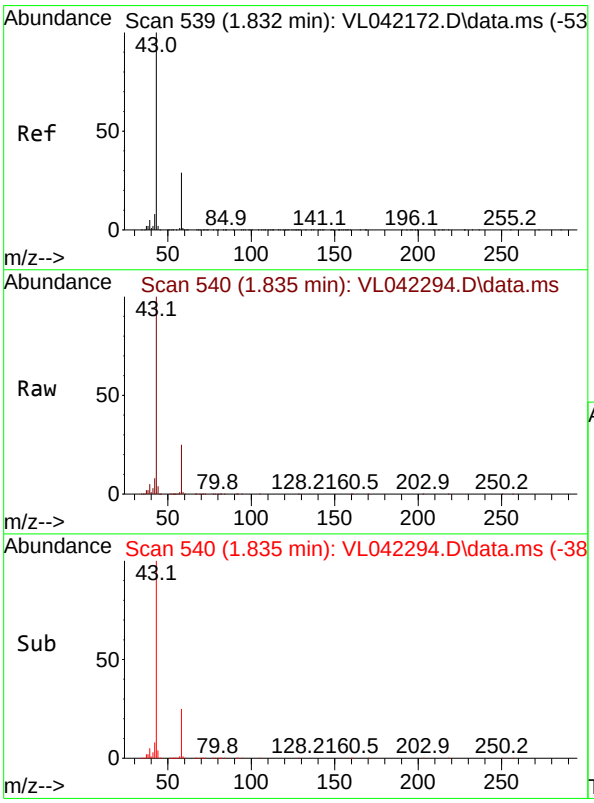
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 38.1 | 20.2 | 80.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-2-3242025

**Manual Integrations**
**APPROVED**

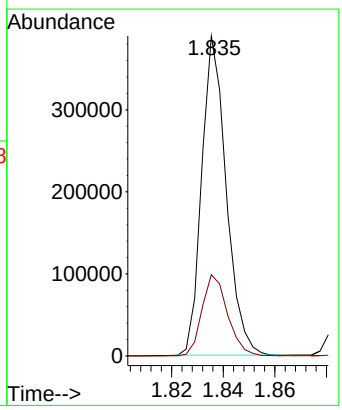
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

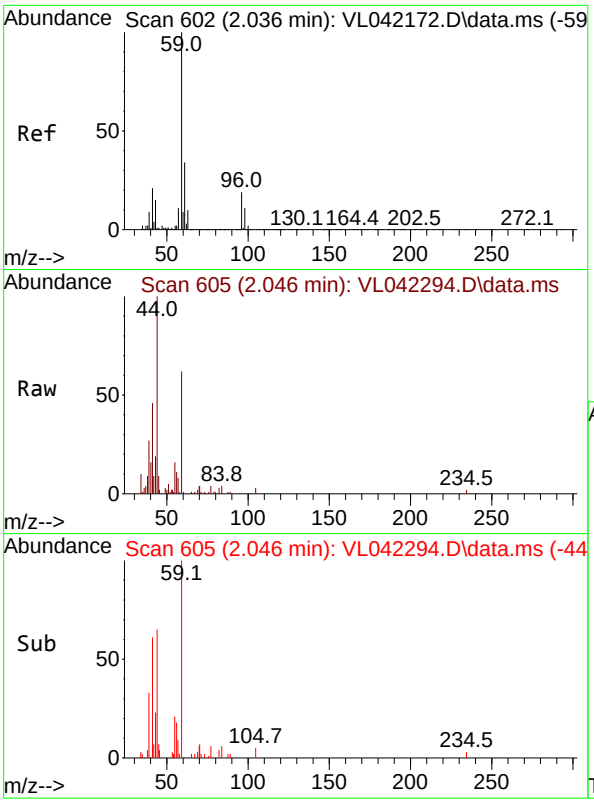



#15
Acetone
Concen: 11.567 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

Tgt Ion: 43 Resp: 257522

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 26.6 | 23.2 | 34.8 |






#17
tert-Butyl alcohol
Concen: 0.112 ppbv m
RT: 2.046 min Scan# 6
Delta R.T. 0.009 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

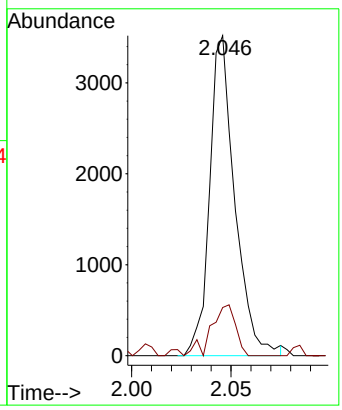
Tgt Ion: 59 Resp: 310

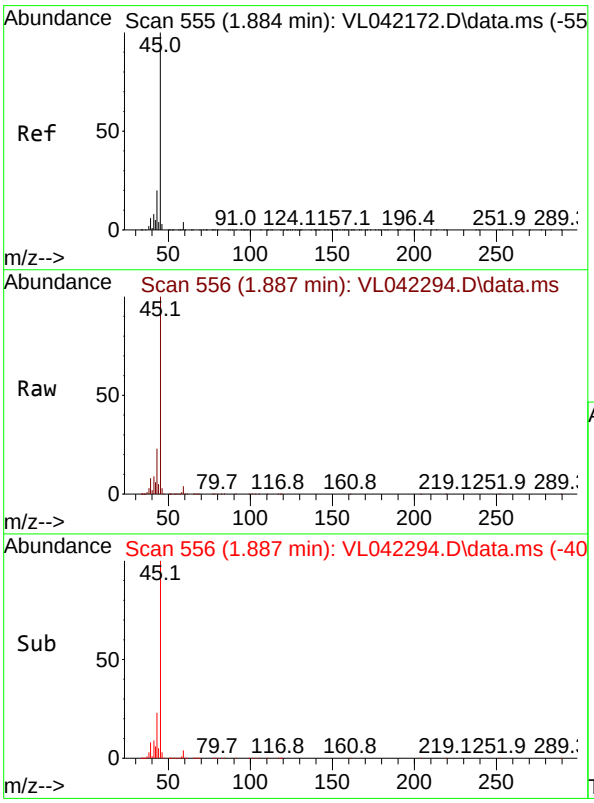
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 34.5 | 8.9 | 13.3# |

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-2-3242025

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

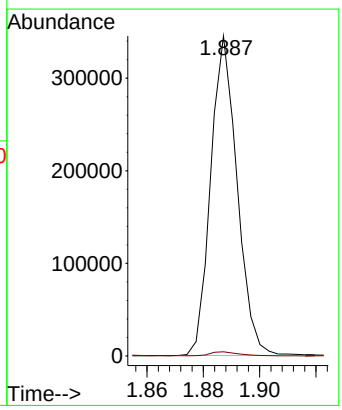


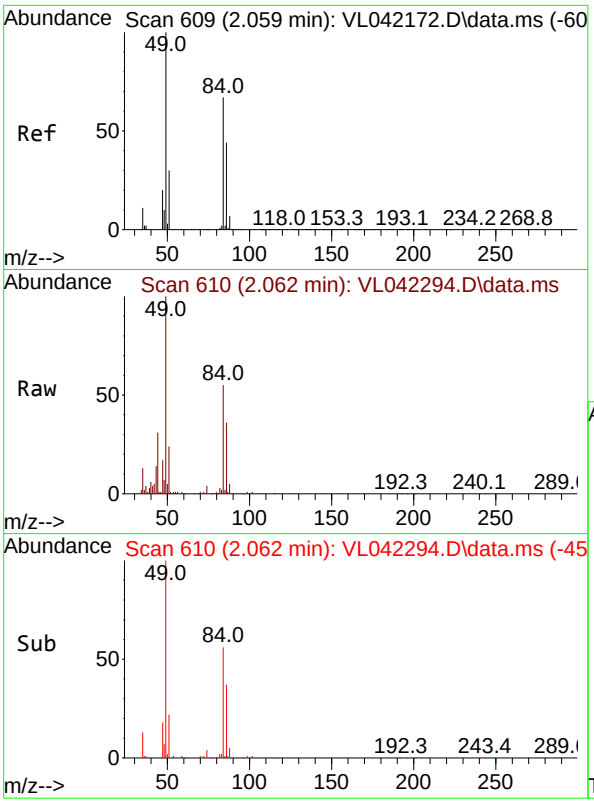




#19
Isopropyl Alcohol
Concen: 17.881 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

Tgt Ion: 45 Resp: 224606

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 1.5 | 36.9 | 55.3# |

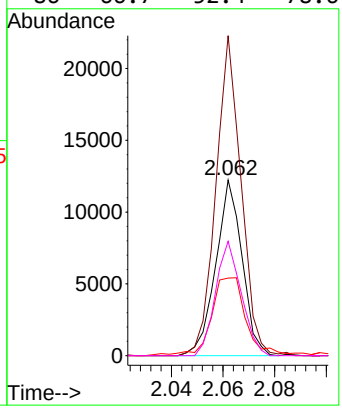





#20
Methylene Chloride
Concen: 1.047 ppbv
RT: 2.062 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

Tgt Ion: 84 Resp: 868

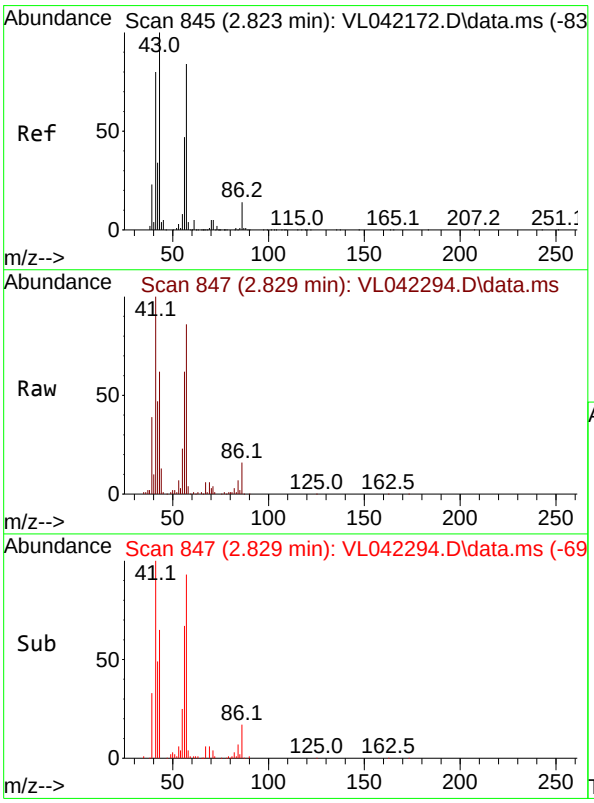
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 182.2 | 120.2 | 180.4# |
| 51 | 43.8 | 37.4 | 56.0 |
| 86 | 66.7 | 52.4 | 78.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-2-3242025

**Manual Integrations**
**APPROVED**

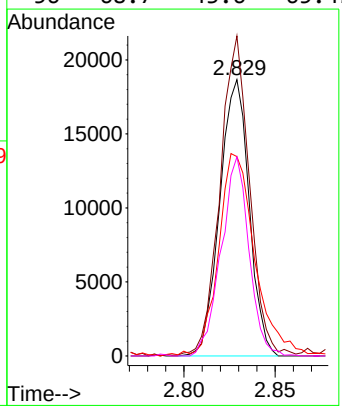
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

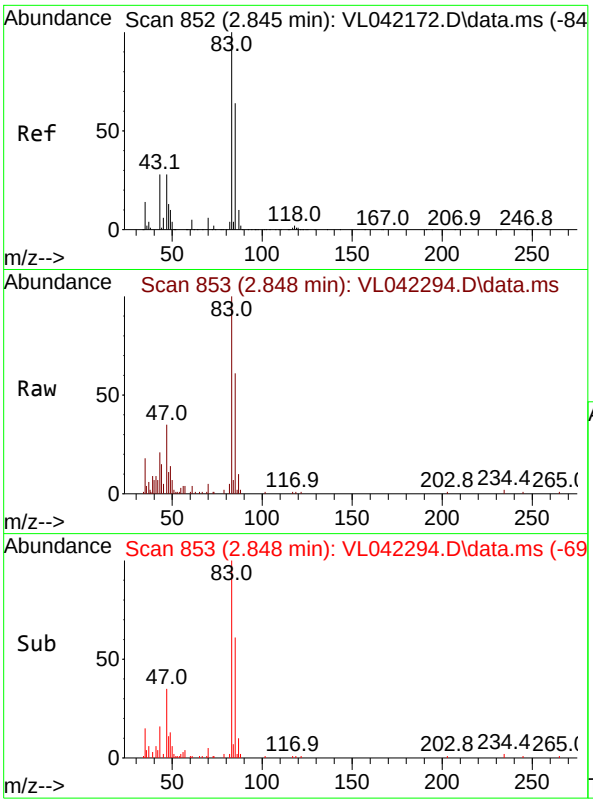



#26
Hexane
Concen: 0.937 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.006 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

Tgt Ion: 57 Resp: 20910

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 120.6 | 76.6 | 114.8# |
| 43 | 88.4 | 207.8 | 311.8# |
| 56 | 68.7 | 43.6 | 65.4# |






#29
Chloroform
Concen: 0.318 ppbv
RT: 2.848 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

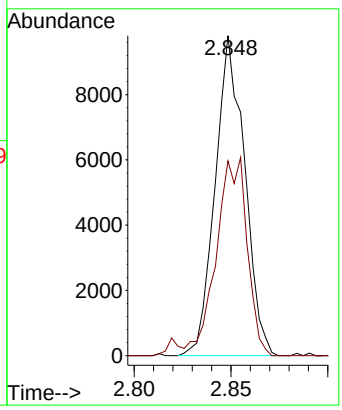
Tgt Ion: 83 Resp: 1037

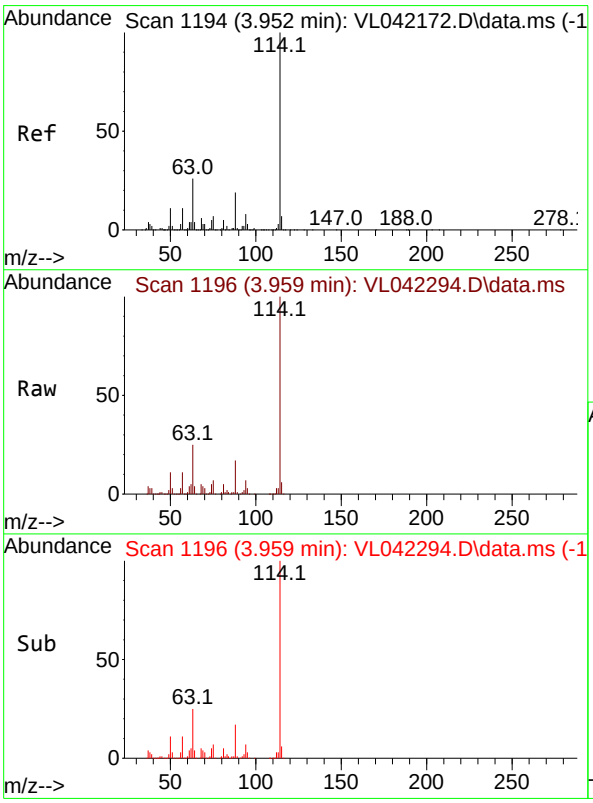
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 60.8 | 51.4 | 77.2 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-2-3242025

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

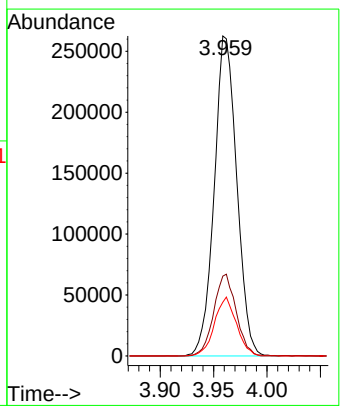


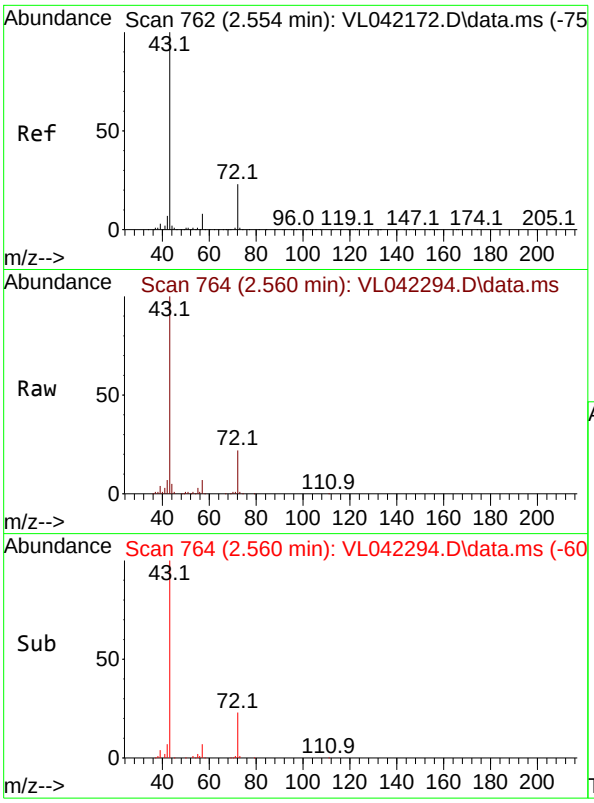




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.006 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

Tgt Ion:114 Resp: 384747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.5 | 20.7 | 31.1 |
| 88 | 18.0 | 15.0 | 22.4 |






#34
2-Butanone
Concen: 3.296 ppbv
RT: 2.560 min Scan# 7
Delta R.T. 0.006 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

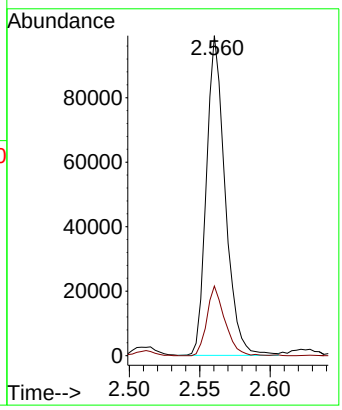
Tgt Ion: 43 Resp: 9194

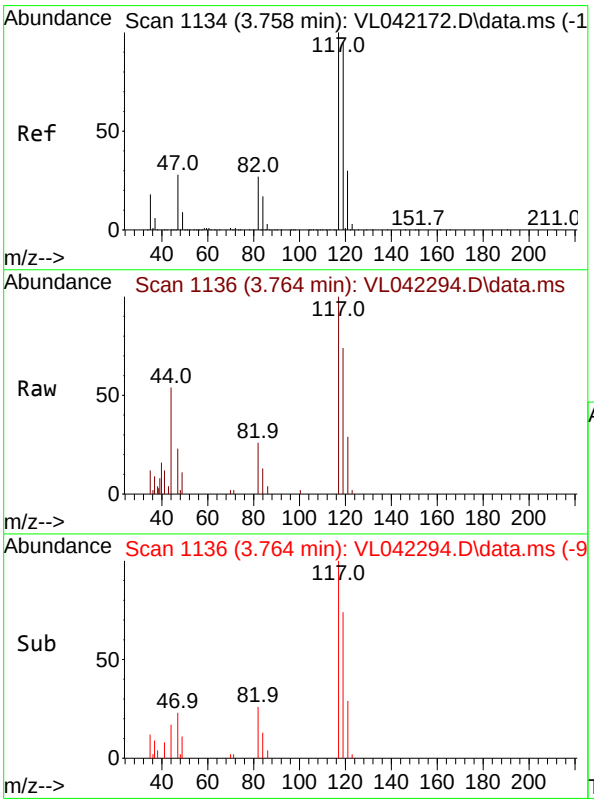
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 21.0 | 18.2 | 27.2 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-2-3242025

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

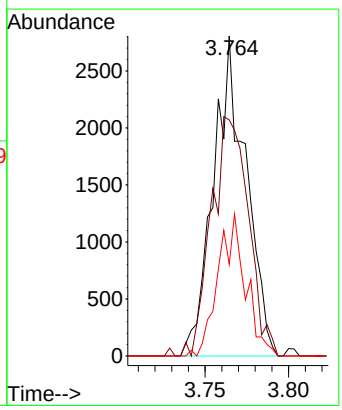


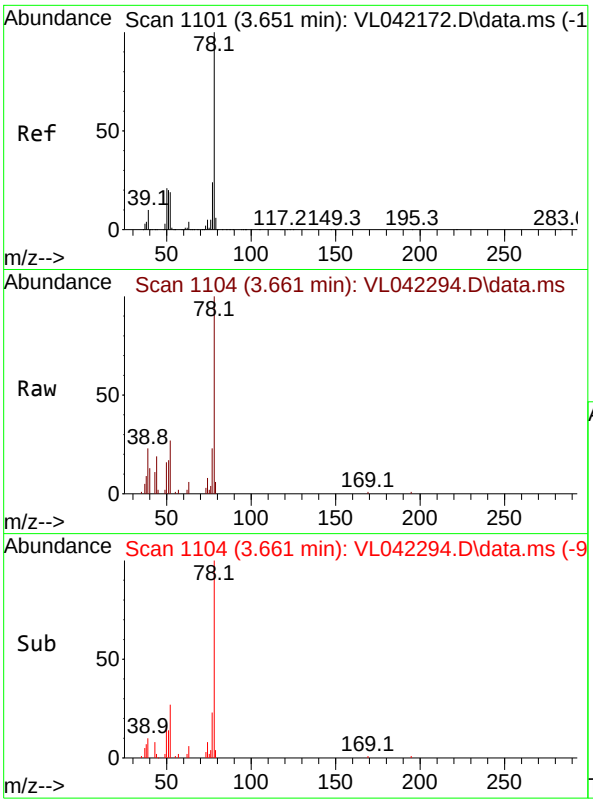




#35
Carbon Tetrachloride
Concen: 0.127 ppbv m
RT: 3.764 min Scan# 1136
Delta R.T. 0.006 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

Tgt Ion:117 Resp: 3816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 73.7 | 76.2 | 114.2# |
| 121 | 28.6 | 24.2 | 36.4 |

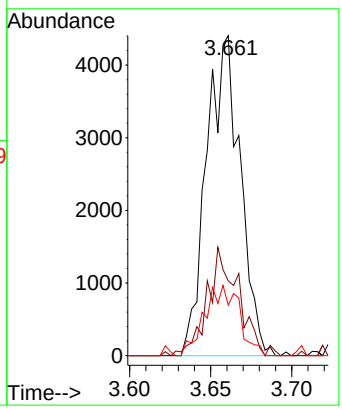





#36
Benzene
Concen: 0.167 ppbv m
RT: 3.661 min Scan# 1
Delta R.T. 0.009 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

Tgt Ion: 78 Resp: 637

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.3 | 19.1 | 28.7 |
| 50 | 15.8 | 16.6 | 24.8# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-2-3242025

**Manual Integrations**
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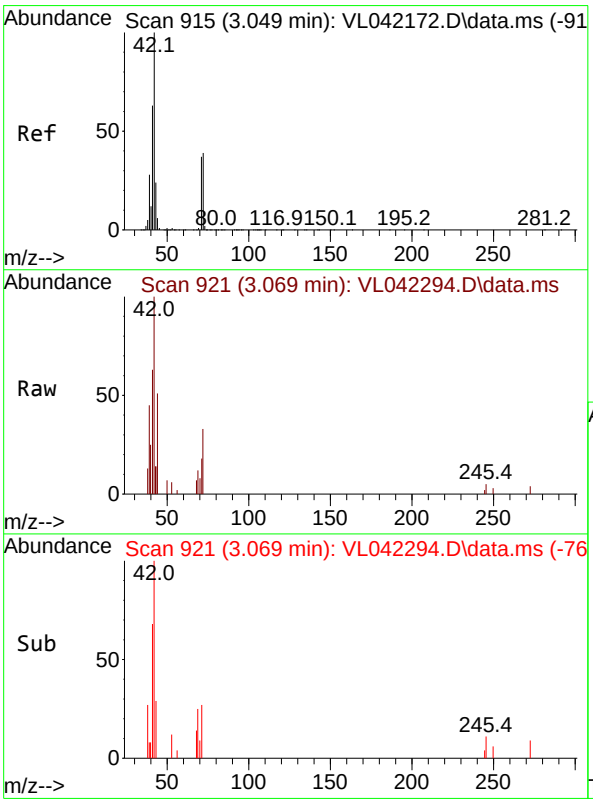
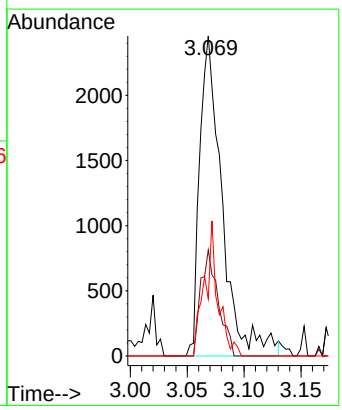
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

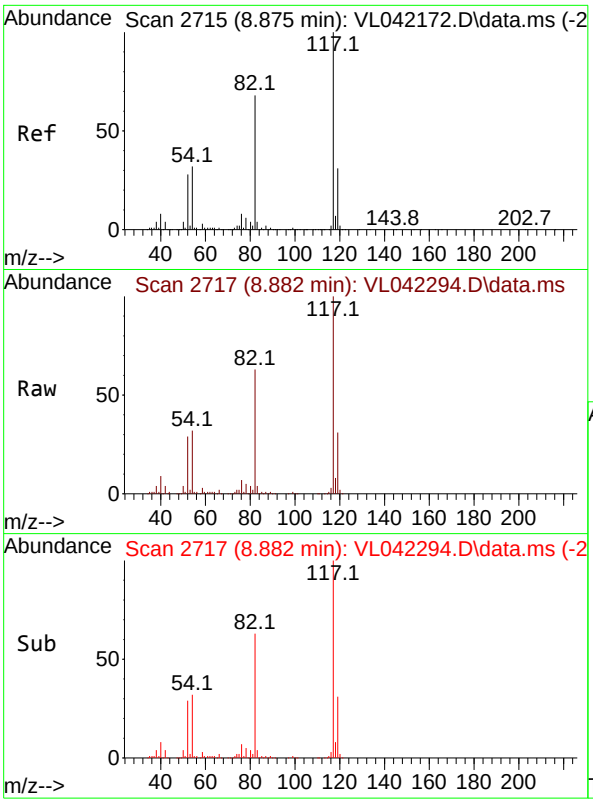



#41
Tetrahydrofuran
Concen: 0.209 ppbv m
RT: 3.069 min Scan# 921
Delta R.T. 0.019 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

Tgt Ion: 42 Resp: 3356

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 0.0 | 31.4 | 47.0# |
| 71 | 0.0 | 30.2 | 45.4# |

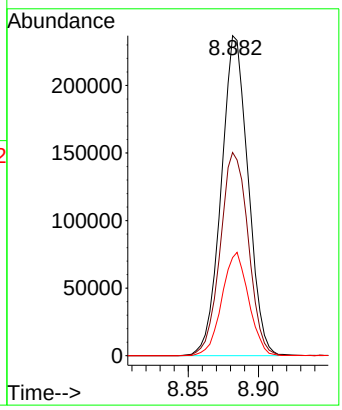





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

Tgt Ion:117 Resp: 31487

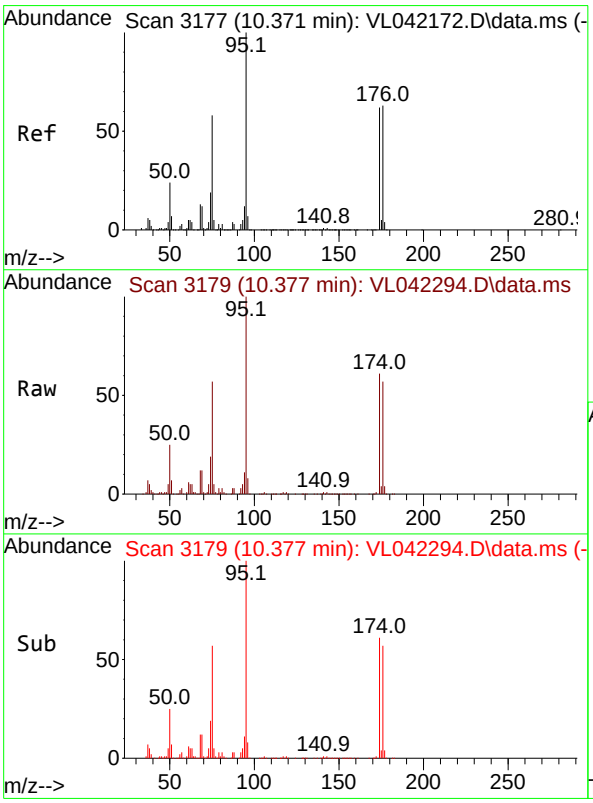
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 66.2 | 55.8 | 83.6 |
| 119 | 32.2 | 25.5 | 38.3 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-2-3242025

**Manual Integrations**
**APPROVED**

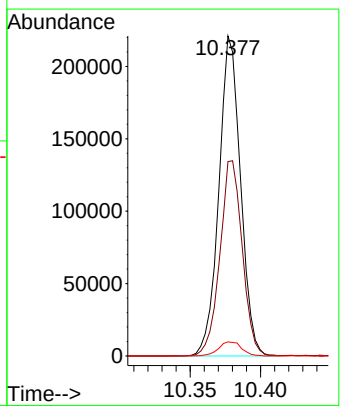
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025




#68
1-Bromo-4-Fluorobenzene
Concen: 9.133 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.006 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

Tgt Ion: 95 Resp: 236151

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 63.3 | 50.6 | 76.0 |
| 175 | 4.7 | 3.8 | 5.6 |



LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042294.D
Acq On : 09 Apr 2025 15:50
Operator : SY/MD
Sample : Q1665-08
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-2-3242025

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

Signal : TIC: VL042294.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.431 | 410 | 415 | 421 | rBV | 4093843 | 4418420 | 100.00% | 44.859% |
| 2 | 1.489 | 430 | 433 | 435 | rVB | 316272 | 133654 | 3.02% | 1.357% |
| 3 | 1.560 | 451 | 455 | 458 | rBV2 | 185941 | 103828 | 2.35% | 1.054% |
| 4 | 1.622 | 470 | 474 | 478 | rVB | 155150 | 79236 | 1.79% | 0.804% |
| 5 | 1.722 | 500 | 505 | 511 | rVB | 108861 | 65226 | 1.48% | 0.662% |
| 6 | 1.835 | 536 | 540 | 548 | rBV | 594224 | 443224 | 10.03% | 4.500% |
| 7 | 1.887 | 548 | 556 | 567 | rBV | 572012 | 397343 | 8.99% | 4.034% |
| 8 | 2.062 | 599 | 610 | 614 | rBV4 | 67860 | 62620 | 1.42% | 0.636% |
| 9 | 2.560 | 759 | 764 | 773 | rBV | 156399 | 144584 | 3.27% | 1.468% |
| 10 | 2.790 | 823 | 835 | 841 | rBV | 566438 | 593553 | 13.43% | 6.026% |
| 11 | 2.829 | 841 | 847 | 852 | rBV | 97408 | 108402 | 2.45% | 1.101% |
| 12 | 3.962 | 1183 | 1197 | 1212 | rBV | 687429 | 1034469 | 23.41% | 10.503% |
| 13 | 8.882 | 2705 | 2717 | 2729 | rBV | 819517 | 1132351 | 25.63% | 11.496% |
| 14 | 10.377 | 3169 | 3179 | 3192 | rBV | 1040232 | 1132652 | 25.63% | 11.500% |

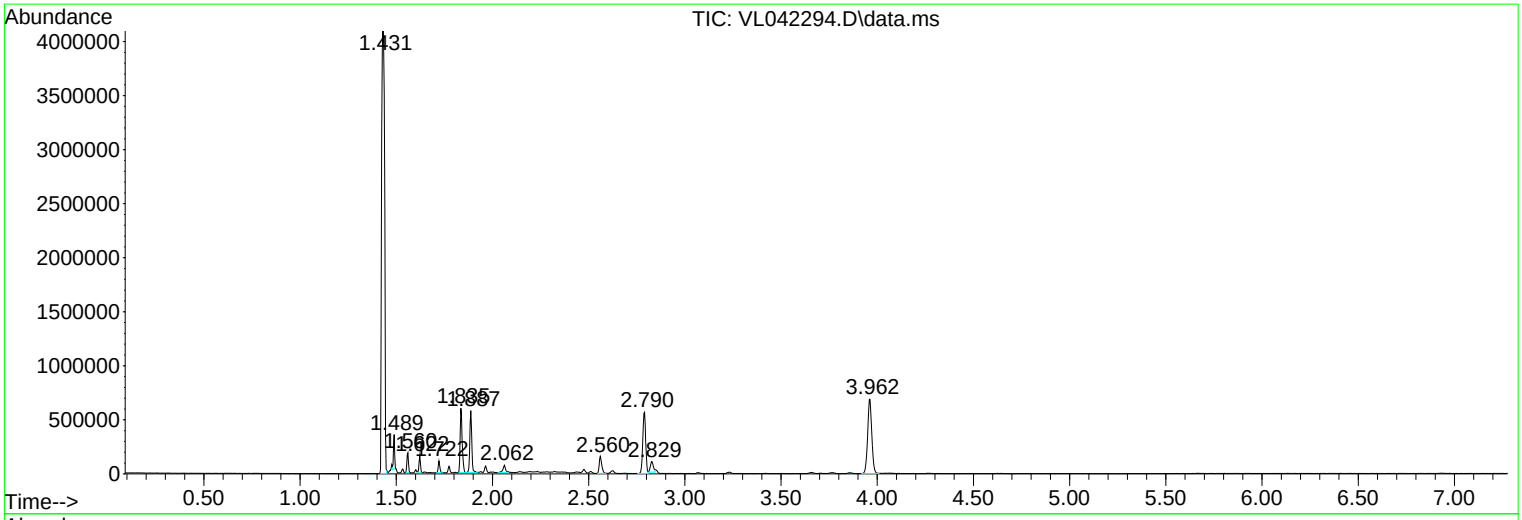
Sum of corrected areas: 9849562

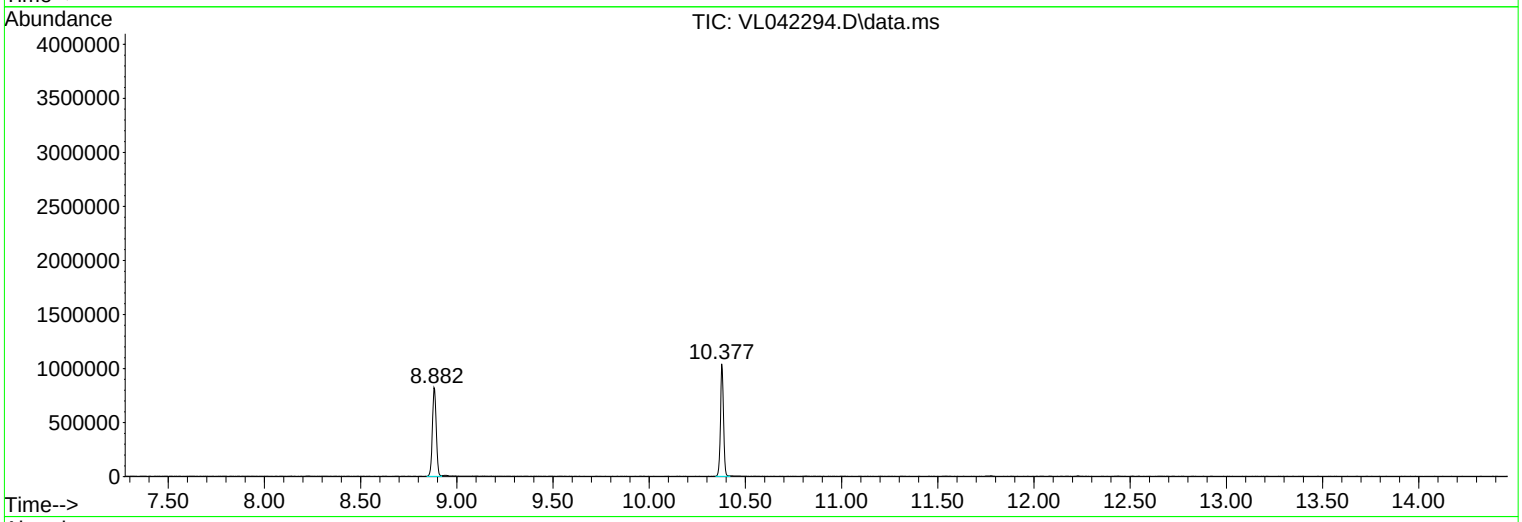
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042294.D
Acq On : 09 Apr 2025 15:50
Operator : SY/MD
Sample : Q1665-08
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

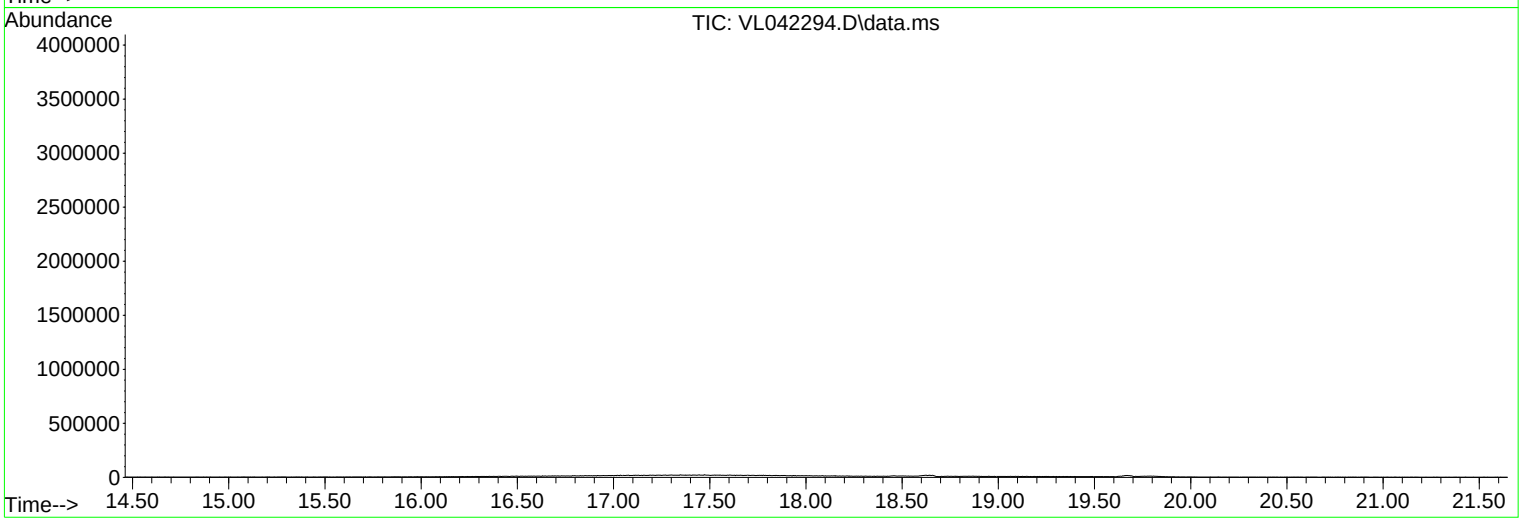
**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-2-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042294.D
Acq On : 09 Apr 2025 15:50
Operator : SY/MD
Sample : Q1665-08
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-2-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

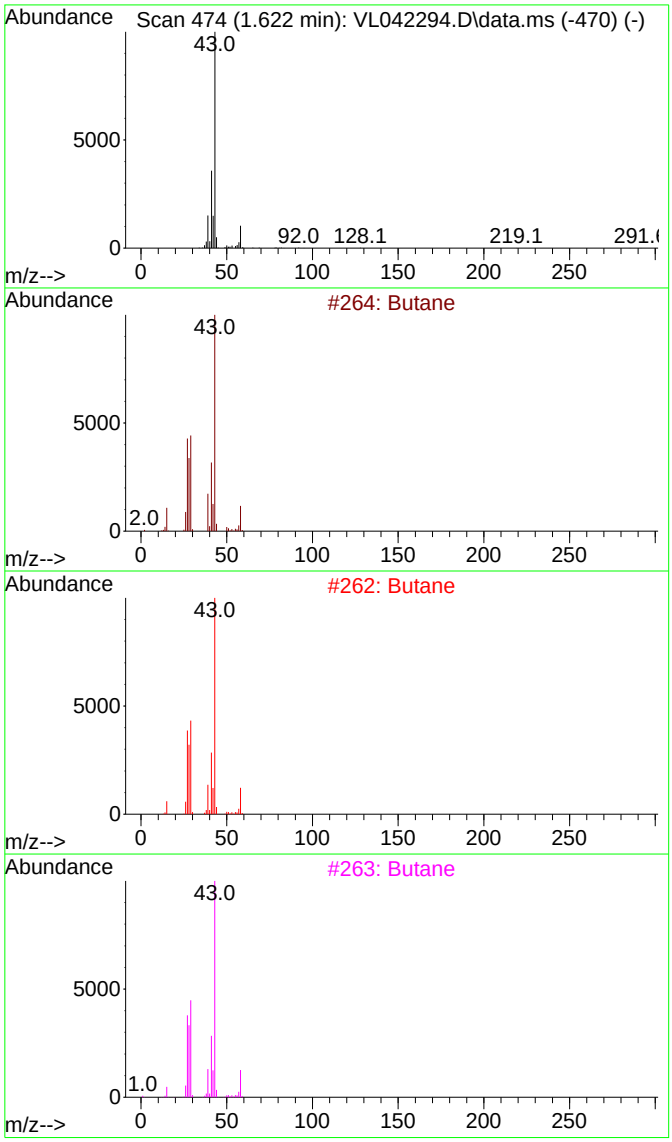
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

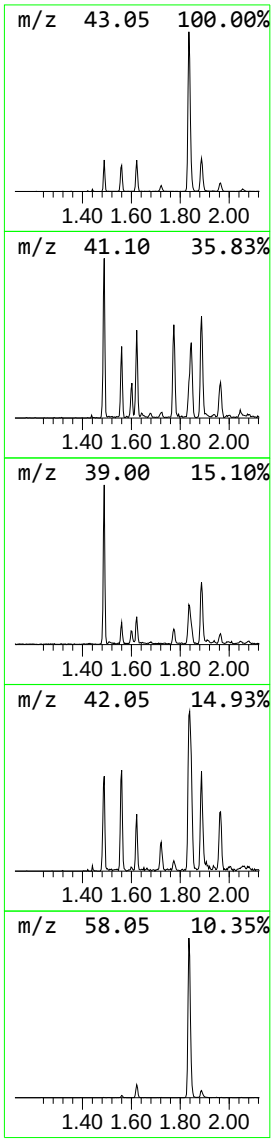
**********

Peak Number 1 Butane Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.622 | 1.33 ppbv | 79236 | Bromochloromethane | 2.787 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane | 58 | C4H10 | 000106-97-8 | 64 |
| 2 | Butane | 58 | C4H10 | 000106-97-8 | 64 |
| 3 | Butane | 58 | C4H10 | 000106-97-8 | 64 |
| 4 | Butane | 58 | C4H10 | 000106-97-8 | 64 |
| 5 | Isobutane | 58 | C4H10 | 000075-28-5 | 9 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042294.D
Acq On : 09 Apr 2025 15:50
Operator : SY/MD
Sample : Q1665-08
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-2-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Butane | 1.622 | 1.3 | ppbv | 79236 | 1 | 2.787 | 593553 | 10.0 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B9-2-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-09 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042295.D | 1 | | 04/09/25 16:23 | VL040925 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.42 | 2.08 | J | 1.04 | 2.47 | ug/m3 |
| 64-17-5 | Ethanol | 25.6 | 48.2 | EQ | 0.60 | 0.94 | ug/m3 |
| 74-87-3 | Chloromethane | 0.58 | 1.20 | | 0.21 | 1.03 | ug/m3 |
| 75-01-4 | Vinyl Chloride | 0.010 | 0.030 | U | 0.030 | 0.080 | ug/m3 |
| 74-83-9 | Bromomethane | 0.14 | 0.54 | U | 0.54 | 1.94 | ug/m3 |
| 75-00-3 | Chloroethane | 0.17 | 0.45 | U | 0.45 | 1.32 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | 0.13 | 0.38 | U | 0.38 | 1.47 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | 0.22 | 1.24 | J | 0.90 | 2.81 | ug/m3 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.16 | 1.23 | U | 1.23 | 3.83 | ug/m3 |
| 76-14-2 | Dichlorotetrafluoroethane | 0.090 | 0.63 | U | 0.63 | 3.49 | ug/m3 |
| 593-60-2 | Bromoethene | 0.12 | 0.52 | U | 0.52 | 2.19 | ug/m3 |
| 75-65-0 | tert-Butyl alcohol | 0.19 | 0.58 | U | 0.58 | 1.52 | ug/m3 |
| 142-82-5 | Heptane | 0.12 | 0.49 | J | 0.45 | 2.05 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | 21.2 | 52.1 | E | 0.17 | 1.23 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethene | 0.14 | 0.56 | U | 0.56 | 1.98 | ug/m3 |
| 67-64-1 | Acetone | 6.40 | 15.2 | | 0.57 | 1.19 | ug/m3 |
| 75-15-0 | Carbon Disulfide | 0.16 | 0.50 | U | 0.50 | 1.56 | ug/m3 |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.12 | 0.43 | U | 0.43 | 1.80 | ug/m3 |
| 75-09-2 | Methylene Chloride | 1.20 | 4.17 | | 0.66 | 1.74 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.19 | 0.75 | U | 0.75 | 1.98 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | 0.13 | 0.53 | U | 0.53 | 2.02 | ug/m3 |
| 110-82-7 | Cyclohexane | 0.22 | 0.76 | U | 0.76 | 1.72 | ug/m3 |
| 78-93-3 | 2-Butanone | 3.20 | 9.44 | | 0.35 | 1.47 | ug/m3 |
| 56-23-5 | Carbon Tetrachloride | 0.090 | 0.57 | | 0.060 | 0.19 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.090 | 0.36 | U | 0.36 | 1.98 | ug/m3 |
| 67-66-3 | Chloroform | 0.080 | 0.39 | U | 0.39 | 2.44 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.010 | 0.050 | U | 0.050 | 0.16 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | 0.10 | 0.47 | U | 0.47 | 2.34 | ug/m3 |
| 71-43-2 | Benzene | 0.30 | 0.96 | J | 0.29 | 1.60 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | 0.090 | 0.36 | U | 0.36 | 2.02 | ug/m3 |
| 79-01-6 | Trichloroethene | 0.020 | 0.11 | U | 0.11 | 0.16 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | 0.11 | 0.51 | U | 0.51 | 2.31 | ug/m3 |
| 75-27-4 | Bromodichloromethane | 0.080 | 0.54 | U | 0.54 | 3.35 | ug/m3 |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.090 | 0.37 | U | 0.37 | 2.05 | ug/m3 |
| 108-88-3 | Toluene | 0.39 | 1.47 | J | 0.41 | 1.88 | ug/m3 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B9-2-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-09 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042295.D | 1 | | 04/09/25 16:23 | VL040925 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.060 | 0.27 | U | 0.27 | 2.27 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.060 | 0.27 | U | 0.27 | 2.27 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.070 | 0.38 | U | 0.38 | 2.73 | ug/m3 |
| 124-48-1 | Dibromochloromethane | 0.070 | 0.60 | U | 0.60 | 4.26 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane | 0.070 | 0.54 | U | 0.54 | 0.77 | ug/m3 |
| 127-18-4 | Tetrachloroethene | 0.020 | 0.14 | U | 0.14 | 0.20 | ug/m3 |
| 108-90-7 | Chlorobenzene | 0.20 | 0.92 | J | 0.37 | 2.30 | ug/m3 |
| 100-41-4 | Ethyl Benzene | 0.12 | 0.52 | U | 0.52 | 2.17 | ug/m3 |
| 179601-23-1 | m/p-Xylene | 0.21 | 0.91 | U | 0.91 | 4.34 | ug/m3 |
| 95-47-6 | o-Xylene | 0.12 | 0.52 | U | 0.52 | 2.17 | ug/m3 |
| 100-42-5 | Styrene | 0.11 | 0.47 | U | 0.47 | 2.13 | ug/m3 |
| 75-25-2 | Bromoform | 0.060 | 0.62 | U | 0.62 | 5.17 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.010 | 0.070 | U | 0.070 | 0.21 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | 0.11 | 0.57 | U | 0.57 | 2.59 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.11 | 0.54 | U | 0.54 | 2.46 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.080 | 0.39 | U | 0.39 | 2.46 | ug/m3 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.080 | 0.48 | U | 0.48 | 3.01 | ug/m3 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.050 | 0.30 | U | 0.30 | 3.01 | ug/m3 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.080 | 0.48 | U | 0.48 | 3.01 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.090 | 0.67 | U | 0.67 | 3.71 | ug/m3 |
| 87-68-3 | Hexachloro-1,3-Butadiene | 0.090 | 0.96 | U | 0.96 | 5.33 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | 0.13 | 0.29 | U | 0.29 | 1.11 | ug/m3 |
| 91-20-3 | Naphthalene | 0.080 | 0.42 | U | 0.42 | 0.52 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | 0.12 | 0.59 | U | 0.59 | 2.46 | ug/m3 |
| 110-54-3 | Hexane | 1.90 | 6.70 | | 0.39 | 1.76 | ug/m3 |
| 107-05-1 | Allyl Chloride | 0.15 | 0.47 | U | 0.47 | 1.57 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | 0.21 | 0.76 | U | 0.76 | 1.80 | ug/m3 |
| 80-62-6 | Methyl Methacrylate | 0.090 | 0.37 | U | 0.37 | 2.05 | ug/m3 |
| **SURROGATES** | | | | | | | |
| 460-00-4 | 1-Bromo-4-Fluorobenzene | 9.70 | | | 70 (65) - 130 (135) | 97% | SPK: 10 |
| **INTERNAL STANDARDS** | | | | | | | |
| 74-97-5 | Bromochloromethane | 157000 | | 2.787 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 386000 | | 3.959 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 327000 | | 8.882 | | | |
| **TENTITIVE IDENTIFIED COMPOUNDS** | | | | | | | |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B9-2-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-09 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042295.D | 1 | | 04/09/25 16:23 | VL040925 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 75-45-6 | Chlorodifluoromethane | 0.83 | | J | | 1.48 | ppbv |
| 115-07-1 | Propene | 4.50 | | J | | 1.49 | ppbv |
| 000106-97-8 | Butane | 2.10 | | J | | 1.62 | ppbv |
| 000100-52-7 | Benzaldehyde | 2.30 | | J | | 10.8 | ppbv |
| 000080-56-8 | .alpha.-Pinene | 1.10 | | J | | 10.9 | ppbv |

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042295.D
Acq On : 09 Apr 2025 16:23
Operator : SY/MD
Sample : Q1665-09
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 01:46:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-2-3242025

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 2.787 | 49 | 157163 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.959 | 114 | 385586 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.882 | 117 | 326865 | 10.000 | ppbv | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95 | 260627 | 9.709 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 97.100% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.499 | 85 | 9767 | 0.421 | ppbv | | 99 |
| 3) Chlorodifluoromethane | 1.476 | 51 | 19628m | 0.828 | ppbv | | |
| 4) Chloromethane | 1.531 | 50 | 5476 | 0.577 | ppbv | | 100 |
| 9) Propene | 1.489 | 41 | 49325m | 4.540 | ppbv | | |
| 10) Heptane | 4.988 | 43 | 3418m | 0.118 | ppbv | | |
| 11) Trichlorofluoromethane | 1.877 | 101 | 5036 | 0.223 | ppbv | | 91 |
| 13) Ethanol | 1.722 | 45 | 26305 | 25.610 | ppbv | | 83 |
| 15) Acetone | 1.835 | 43 | 140811 | 6.406 | ppbv | | 91 |
| 19) Isopropyl Alcohol | 1.887 | 45 | 262397 | 21.158 | ppbv | # | 33 |
| 20) Methylene Chloride | 2.062 | 84 | 9600 | 1.173 | ppbv | | 93 |
| 26) Hexane | 2.826 | 57 | 42387 | 1.924 | ppbv | # | 35 |
| 34) 2-Butanone | 2.560 | 43 | 89072 | 3.186 | ppbv | | 97 |
| 35) Carbon Tetrachloride | 3.758 | 117 | 2602m | 0.086 | ppbv | | |
| 36) Benzene | 3.654 | 78 | 11286 | 0.295 | ppbv | | 92 |
| 53) Toluene | 6.933 | 91 | 17473 | 0.386 | ppbv | | 97 |
| 57) Chlorobenzene | 8.924 | 112 | 6308 | 0.203 | ppbv | # | 76 |
| 59) m/p-Xylene | 9.529 | 91 | 9059m | 0.195 | ppbv | | |
| 60) o-Xylene | 9.963 | 91 | 4768 | 0.103 | ppbv | | 97 |

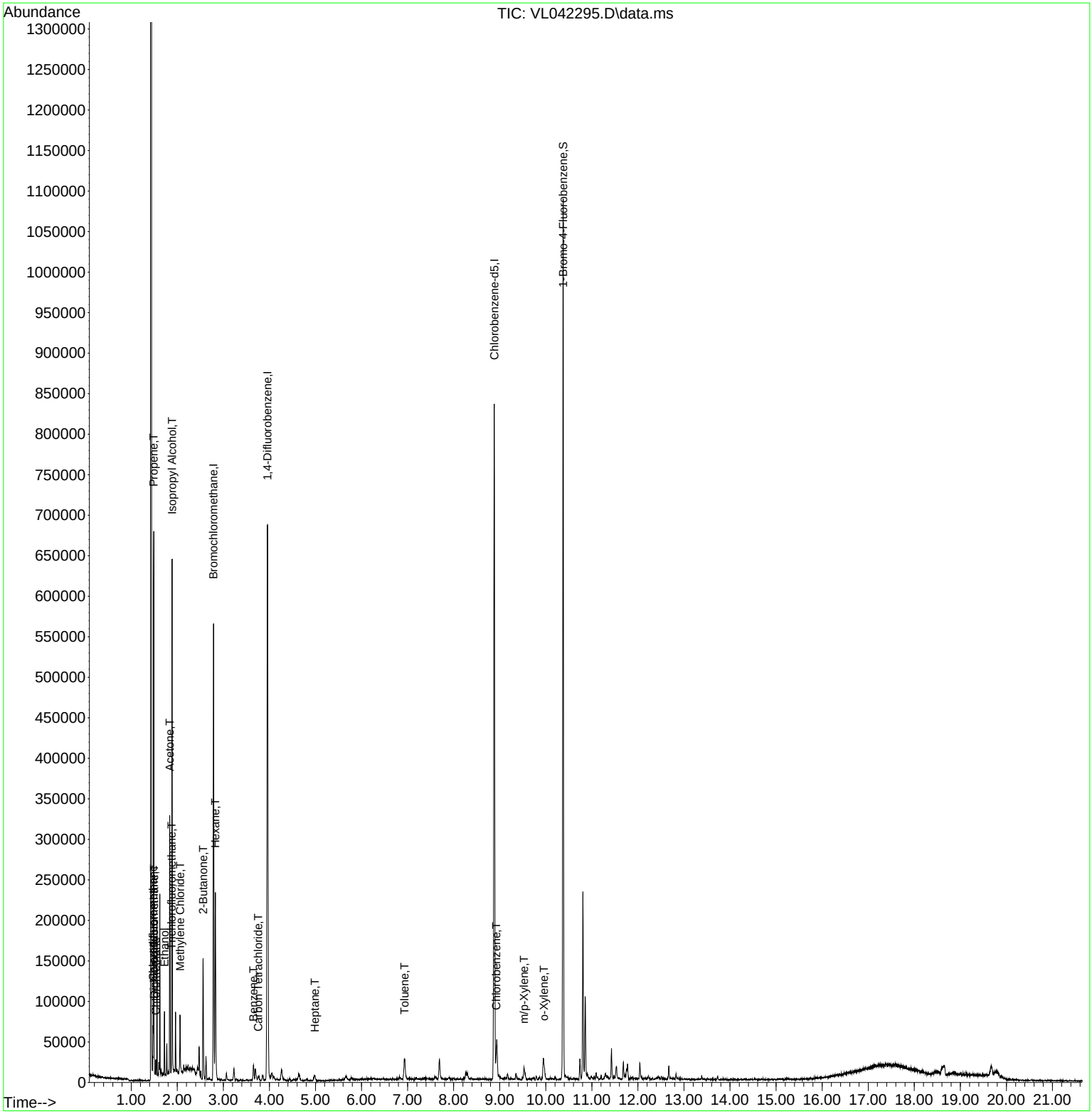
(#) = qualifier out of range (m) = manual integration (+) = signals summed

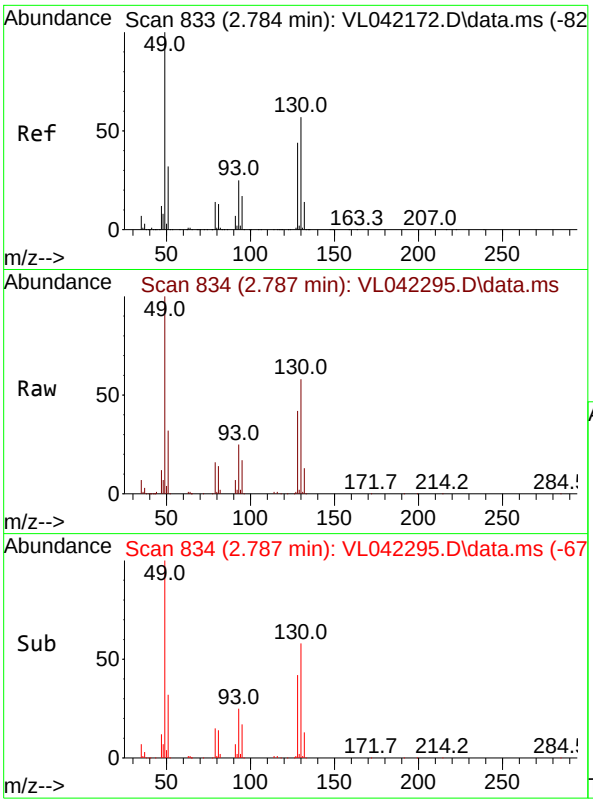
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042295.D
Acq On : 09 Apr 2025 16:23
Operator : SY/MD
Sample : Q1665-09
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 01:46:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-2-3242025

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

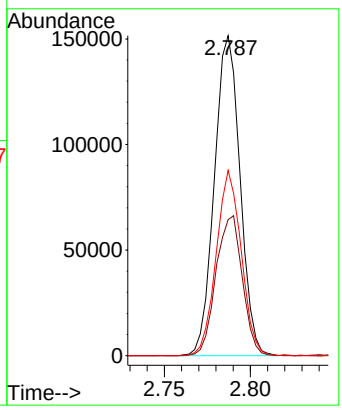





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Tgt Ion: 49 Resp: 15716

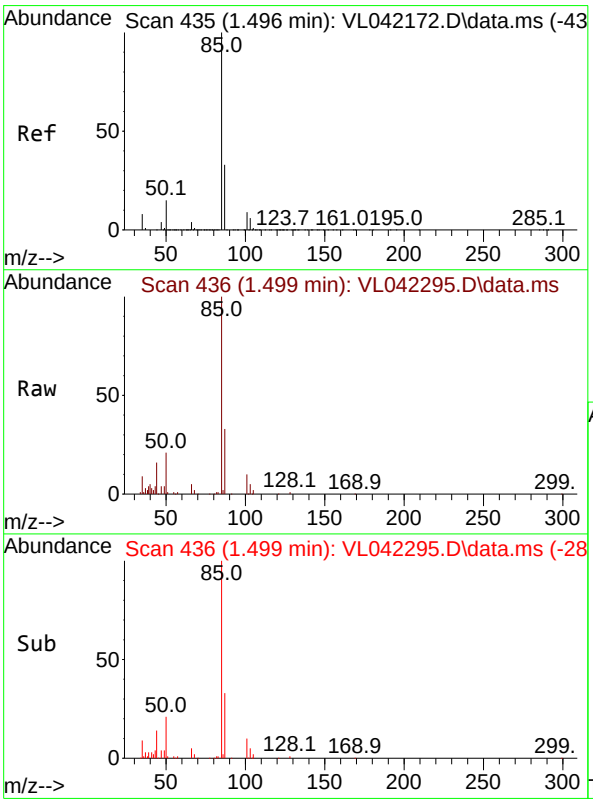
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 44.9 | 22.9 | 68.5 |
| 130 | 56.4 | 28.8 | 86.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-2-3242025

**Manual Integrations**
**APPROVED**

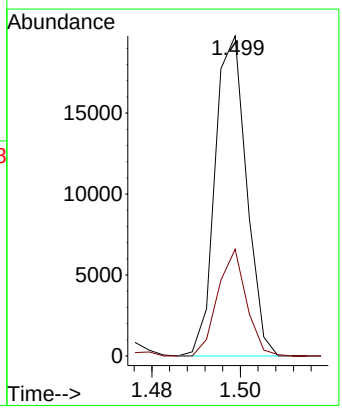
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

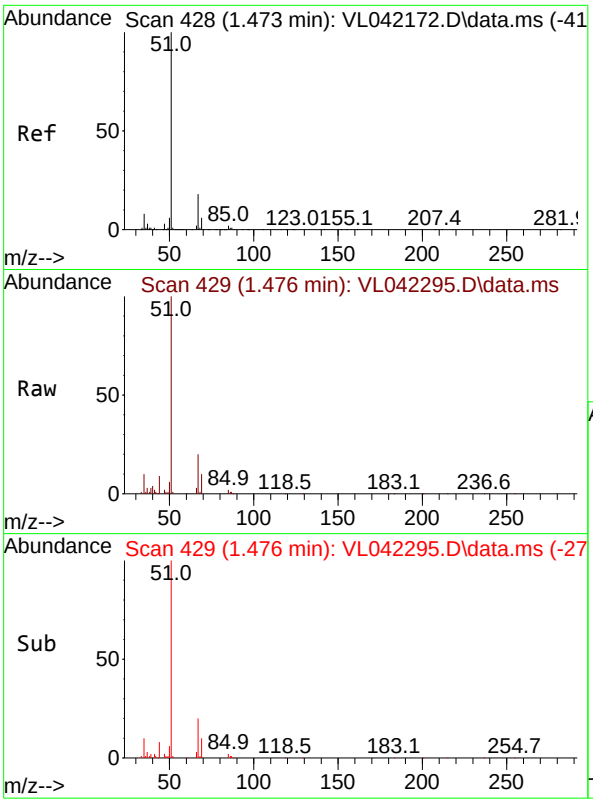



#2
Dichlorodifluoromethane
Concen: 0.421 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Tgt Ion: 85 Resp: 9767

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.4 | 26.1 | 39.1 |

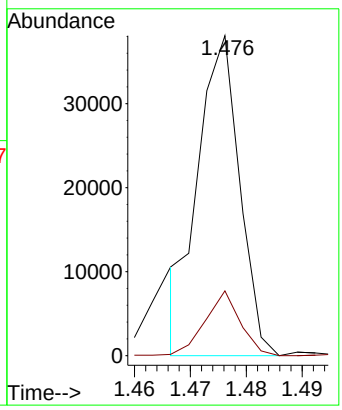





#3
Chlorodifluoromethane
Concen: 0.828 ppbv m
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Tgt Ion: 51 Resp: 1962

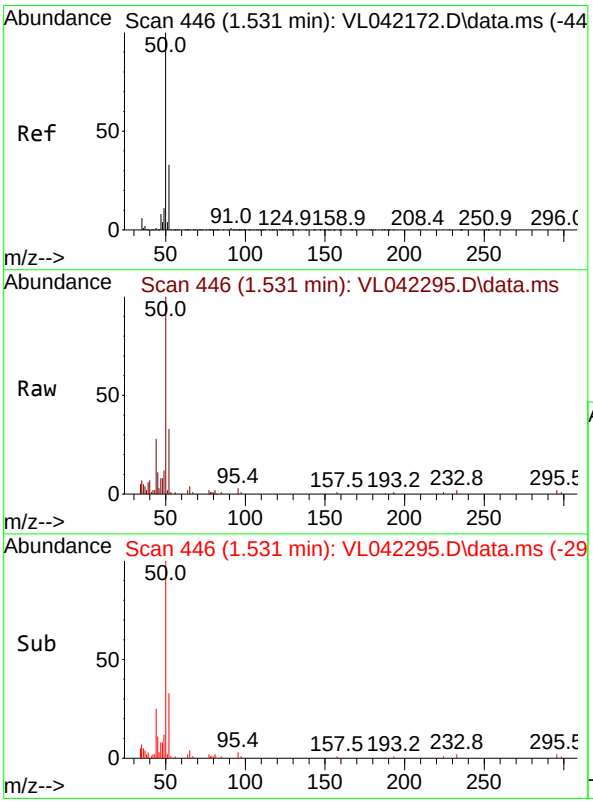
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 17.6 | 15.0 | 22.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-2-3242025

**Manual Integrations**
**APPROVED**

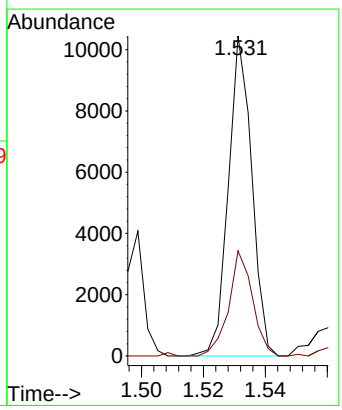
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

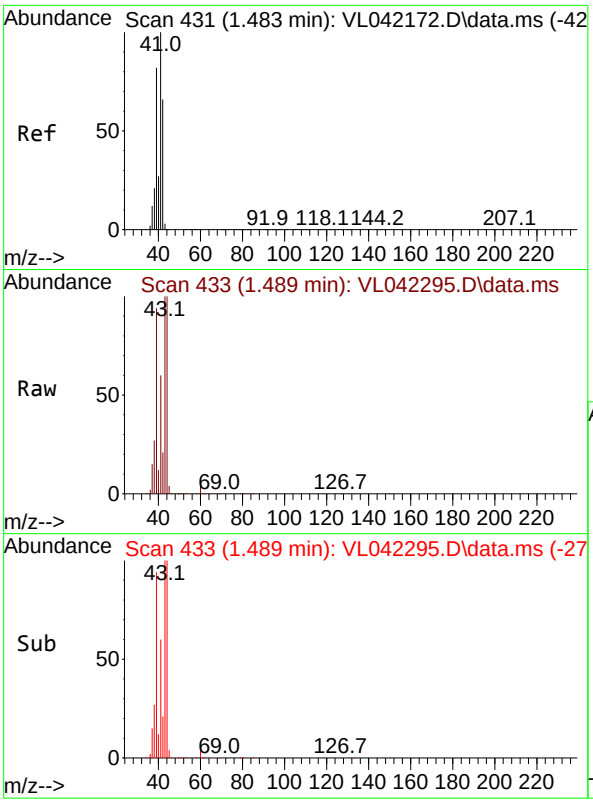



#4
Chloromethane
Concen: 0.577 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Tgt Ion: 50 Resp: 5476

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.9 | 26.1 | 39.1 |

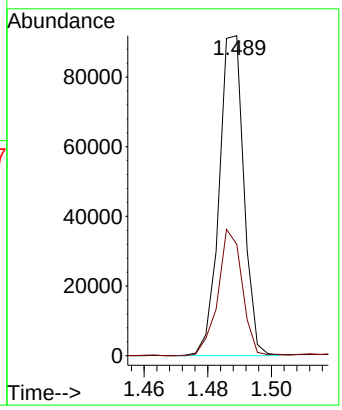





#9
Propene
Concen: 4.540 ppbv m
RT: 1.489 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Tgt Ion: 41 Resp: 4932

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 30.3 | 55.4 | 83.2# |




**Instrument :**
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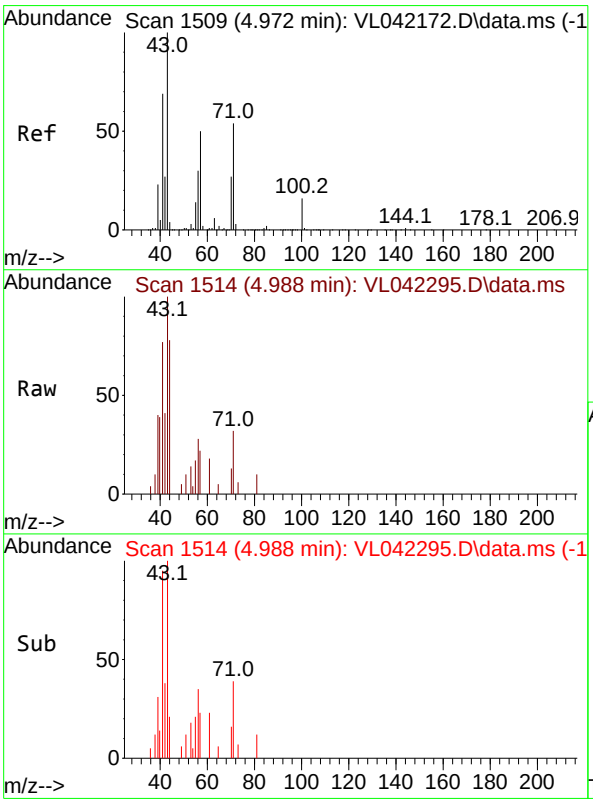
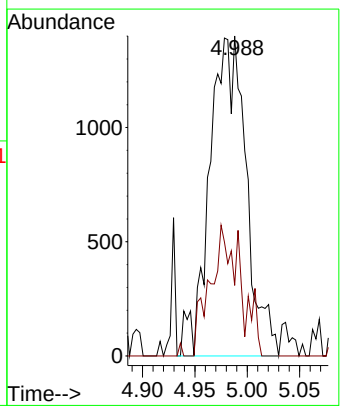
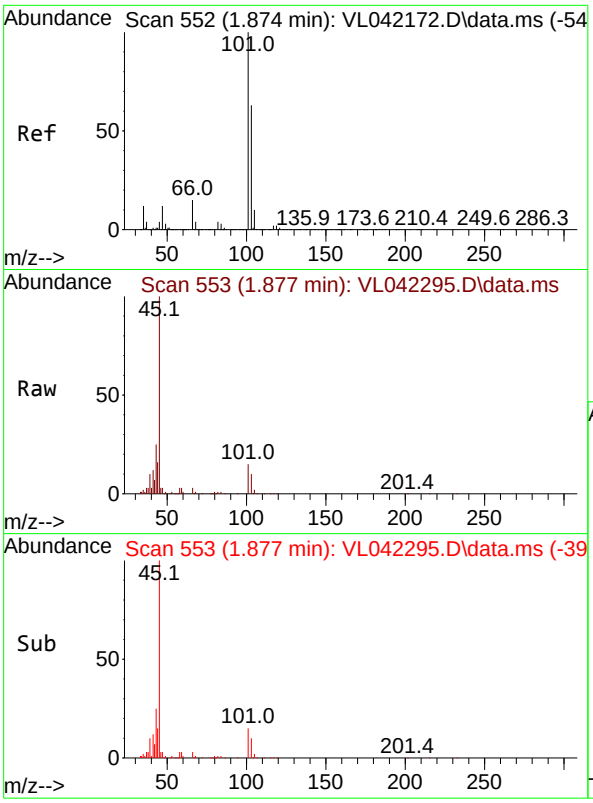



#10
Heptane
Concen: 0.118 ppbv m
RT: 4.988 min Scan# 1514
Delta R.T. 0.016 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Tgt Ion: 43 Resp: 3418

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 34.3 | 39.4 | 59.2# |






#11
Trichlorofluoromethane
Concen: 0.223 ppbv
RT: 1.877 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Tgt Ion:101 Resp: 503

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 69.5 | 50.2 | 75.2 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-2-3242025

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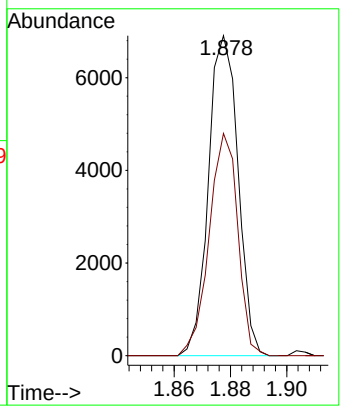
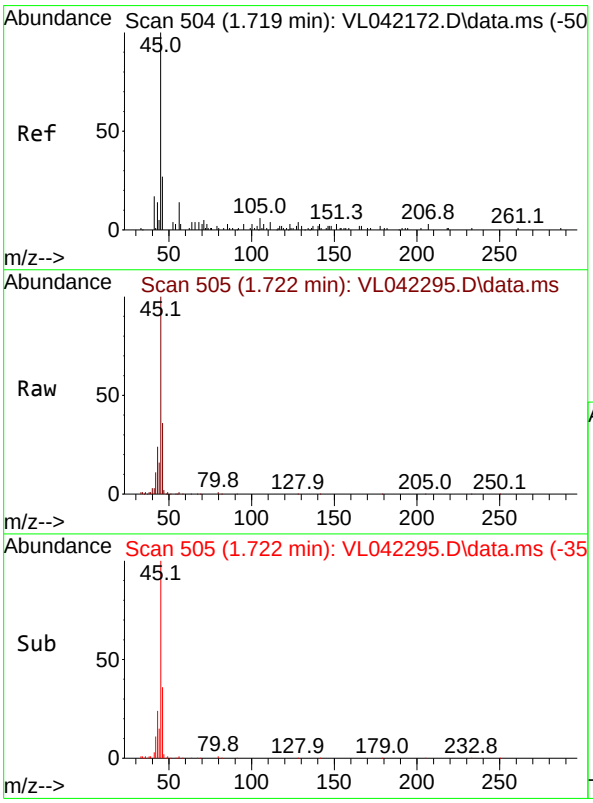
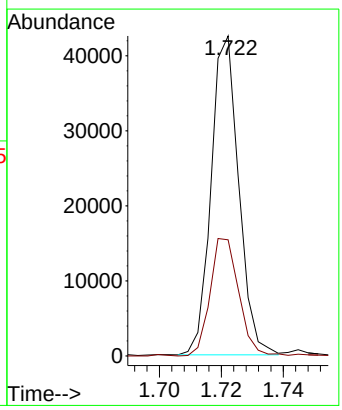


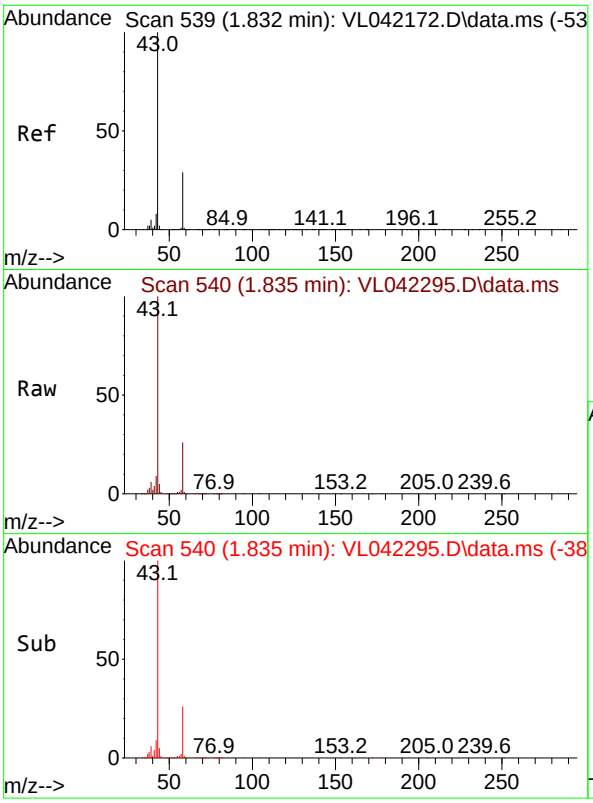




#13
Ethanol
Concen: 25.610 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Tgt Ion: 45 Resp: 26305

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 39.0 | 20.2 | 80.8 |

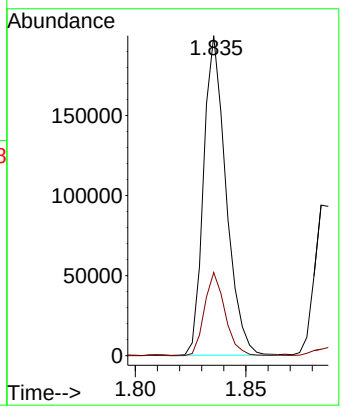





#15
Acetone
Concen: 6.406 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Tgt Ion: 43 Resp: 14081

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 24.0 | 23.2 | 34.8 |




**Instrument :**
MSVOA_L
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IA-B9-2-3242025

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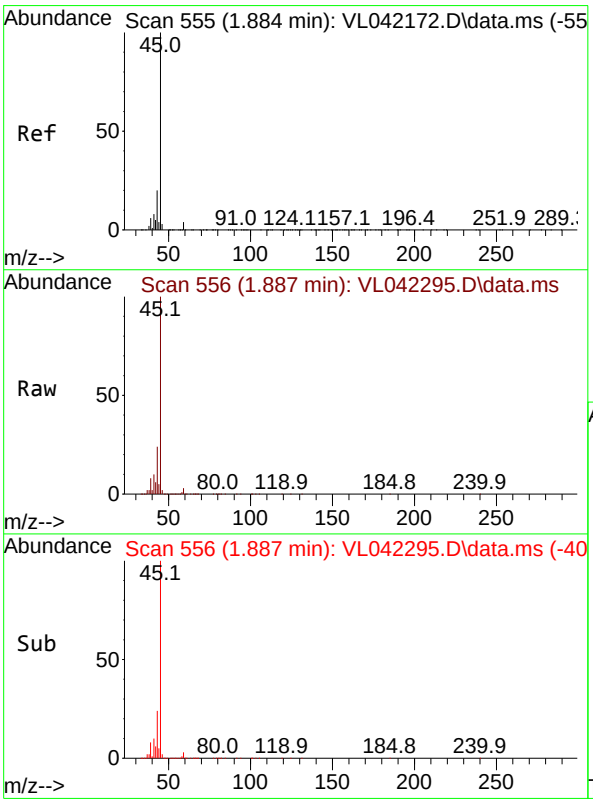
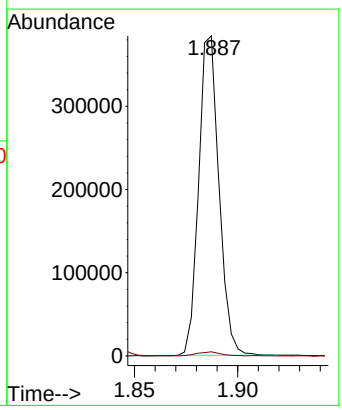
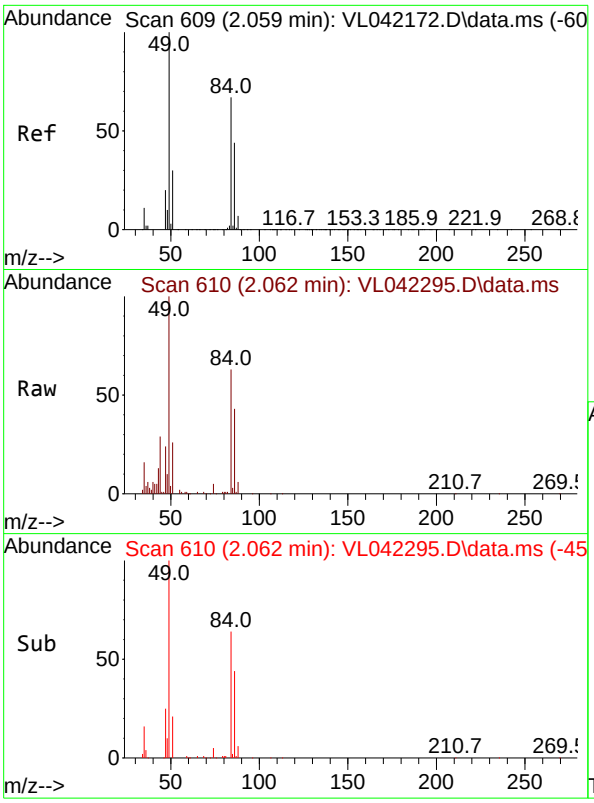



#19
Isopropyl Alcohol
Concen: 21.158 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Tgt Ion: 45 Resp: 262397

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 1.6 | 36.9 | 55.3# |

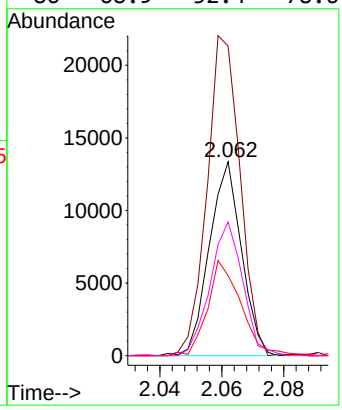





#20
Methylene Chloride
Concen: 1.173 ppbv
RT: 2.062 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Tgt Ion: 84 Resp: 960

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 158.7 | 120.2 | 180.4 |
| 51 | 39.5 | 37.4 | 56.0 |
| 86 | 68.9 | 52.4 | 78.6 |




**Instrument :**
MSVOA_L
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IA-B9-2-3242025

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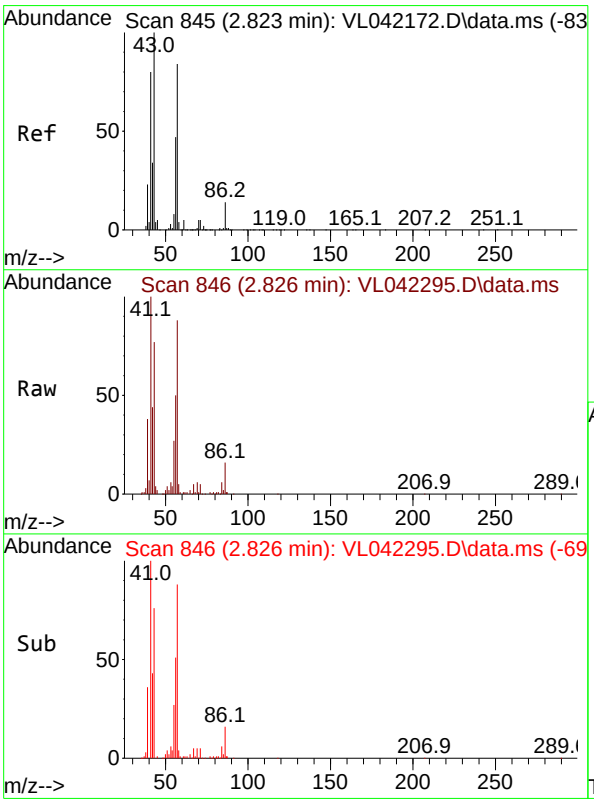
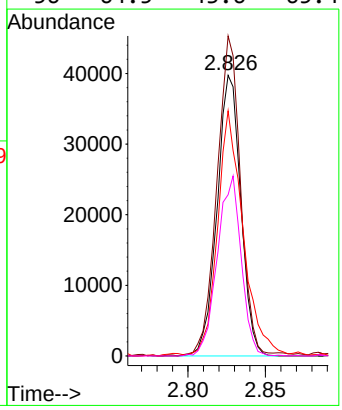
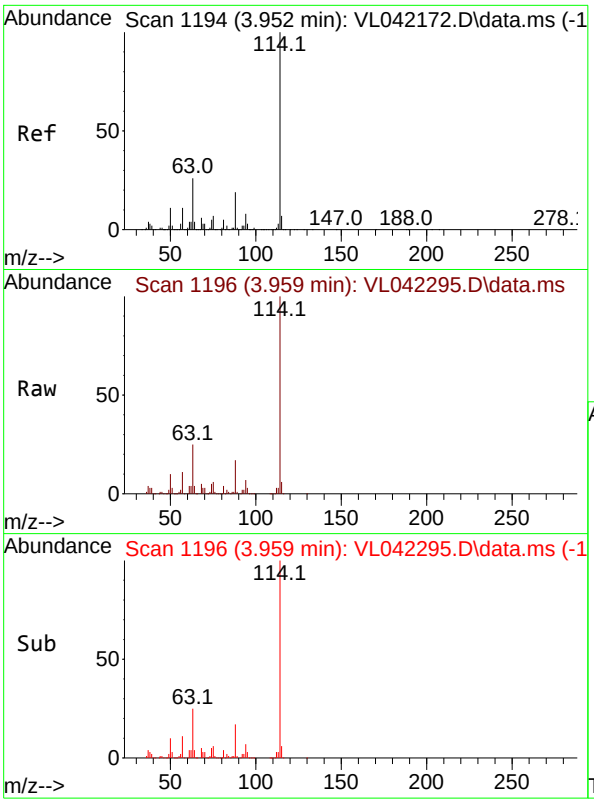



#26
Hexane
Concen: 1.924 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.003 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Tgt Ion: 57 Resp: 42387

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 114.5 | 76.6 | 114.8 |
| 43 | 95.4 | 207.8 | 311.8# |
| 56 | 64.5 | 43.6 | 65.4 |






#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Tgt Ion:114 Resp: 38558

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.4 | 20.7 | 31.1 |
| 88 | 17.6 | 15.0 | 22.4 |

**Instrument :**
MSVOA_L
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IA-B9-2-3242025

**Manual Integrations**
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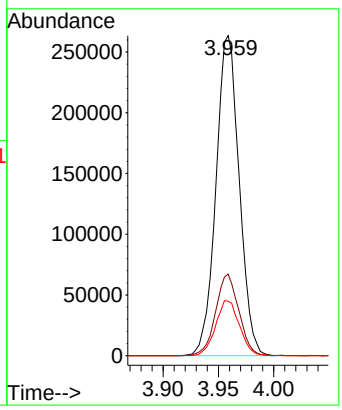
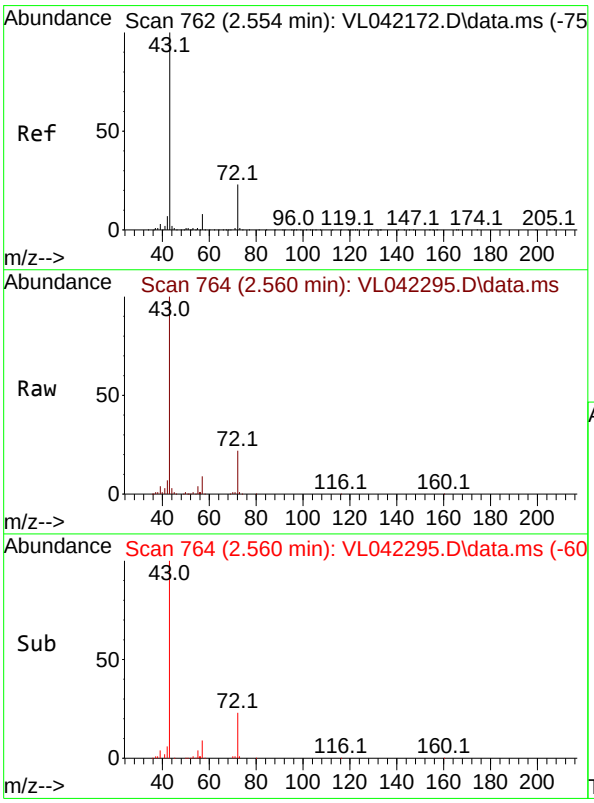
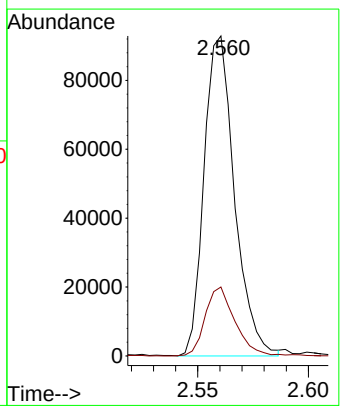


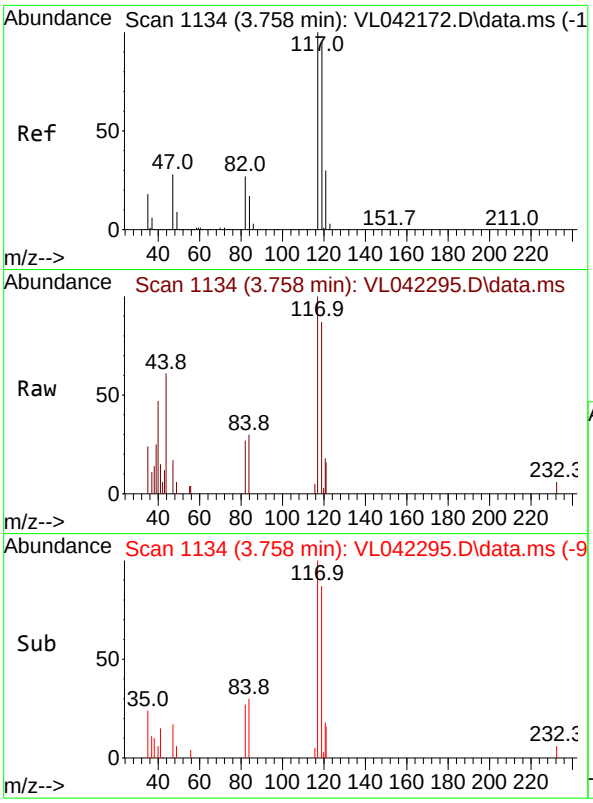




#34
2-Butanone
Concen: 3.186 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.006 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Tgt Ion: 43 Resp: 89072

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 21.3 | 18.2 | 27.2 |






#35
Carbon Tetrachloride
Concen: 0.086 ppbv m
RT: 3.758 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Tgt Ion:117 Resp: 260

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 86.9 | 76.2 | 114.2 |
| 121 | 16.3 | 24.2 | 36.4# |

**Instrument :**
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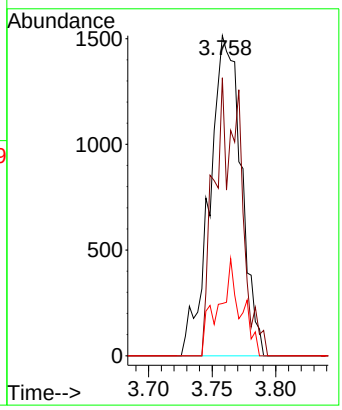
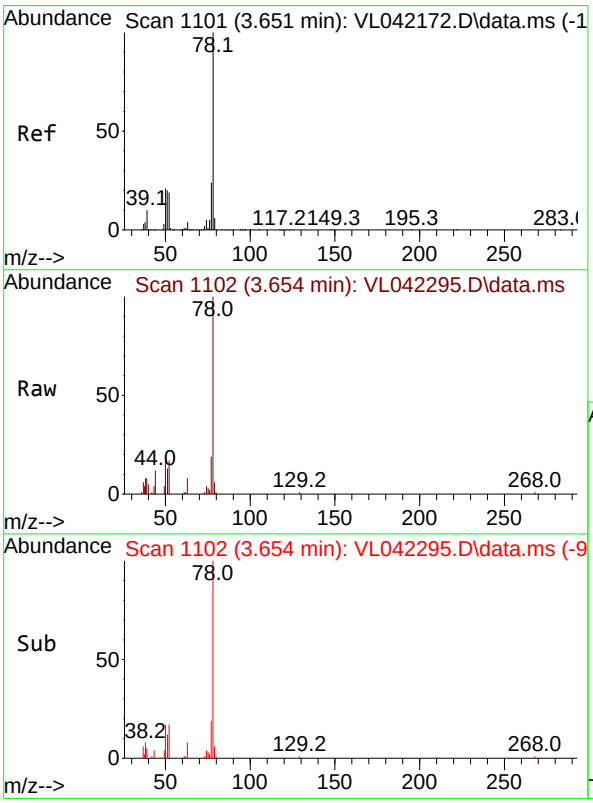
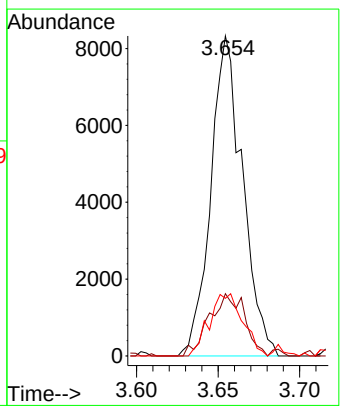


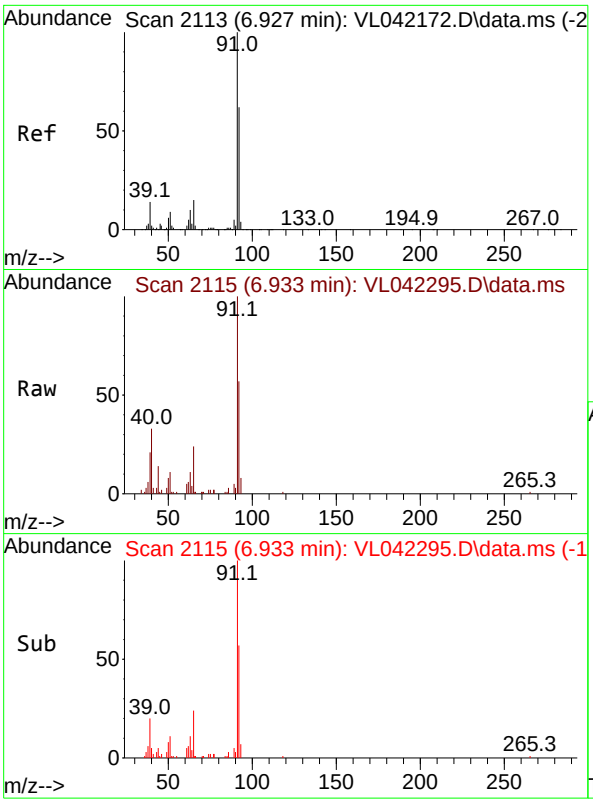




#36
Benzene
Concen: 0.295 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.003 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Tgt Ion: 78 Resp: 11286

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 19.4 | 19.1 | 28.7 |
| 50 | 18.0 | 16.6 | 24.8 |

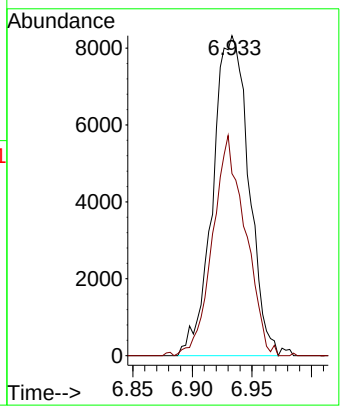





#53
Toluene
Concen: 0.386 ppbv
RT: 6.933 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Tgt Ion: 91 Resp: 1747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 62.6 | 48.4 | 72.6 |




**Instrument :**
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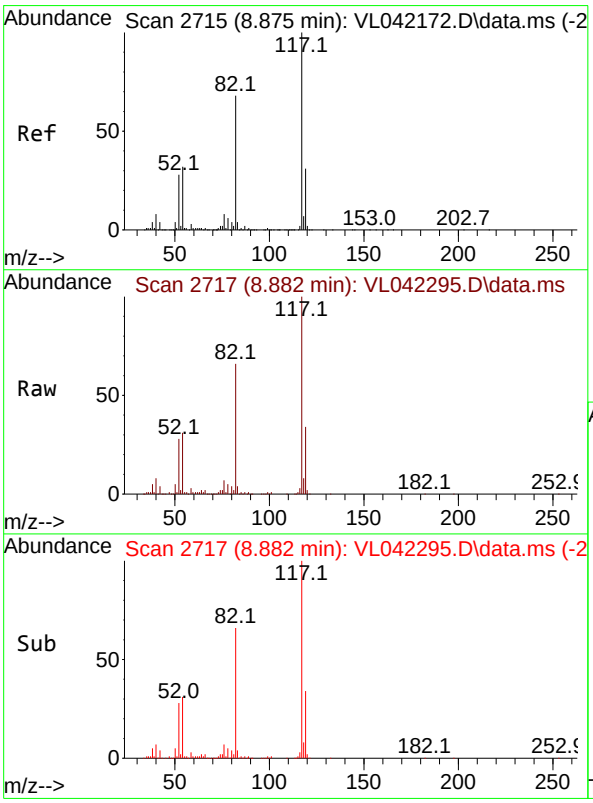
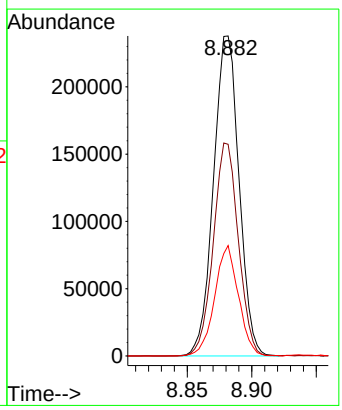
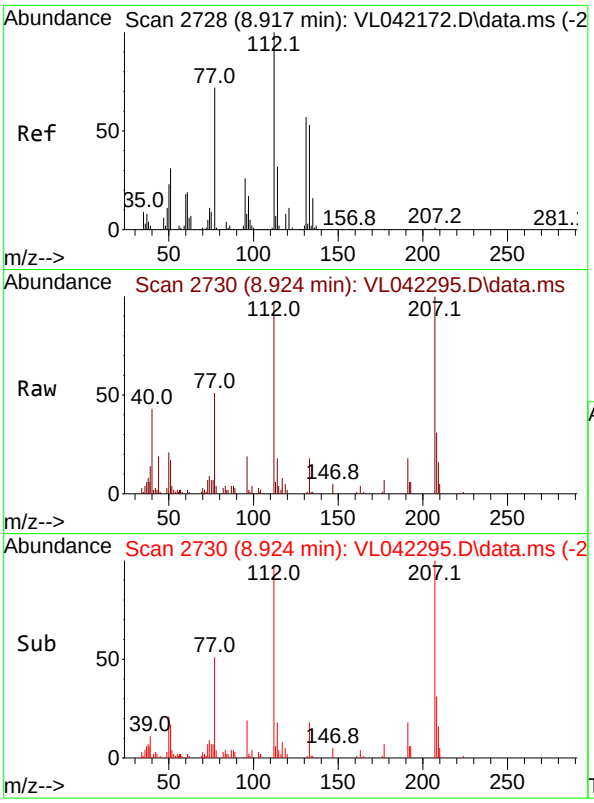



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. 0.006 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Tgt Ion:117 Resp: 326865

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 65.3 | 55.8 | 83.6 |
| 119 | 32.2 | 25.5 | 38.3 |






#57
Chlorobenzene
Concen: 0.203 ppbv
RT: 8.924 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Tgt Ion:112 Resp: 630

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 52.5 | 58.2 | 87.2# |
| 114 | 18.9 | 29.1 | 35.5# |

**Instrument :**
MSVOA_L
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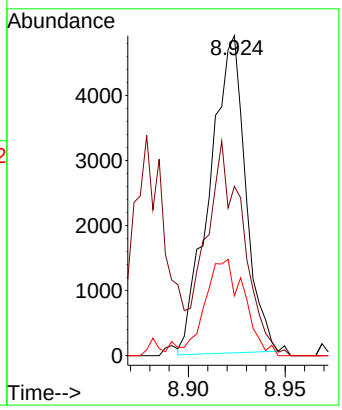
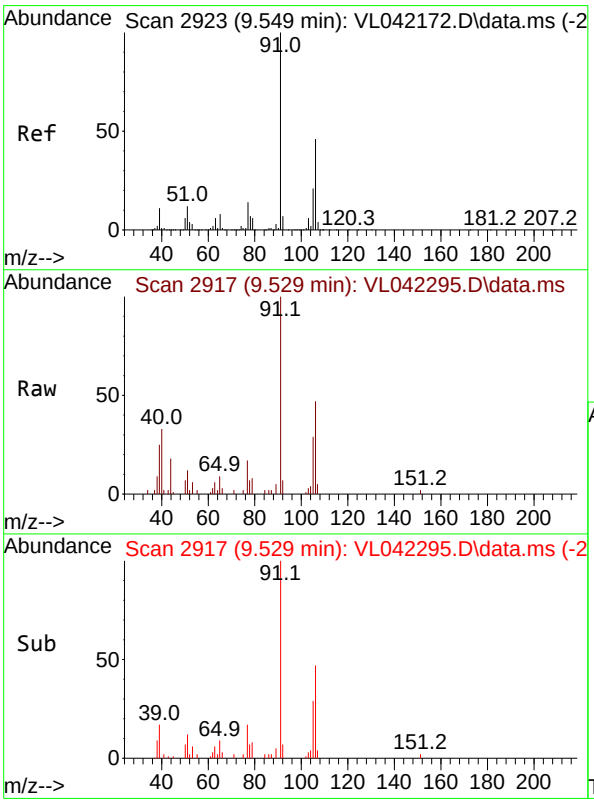
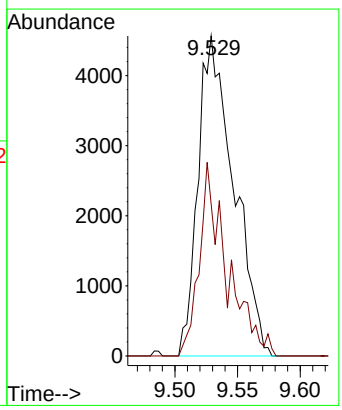


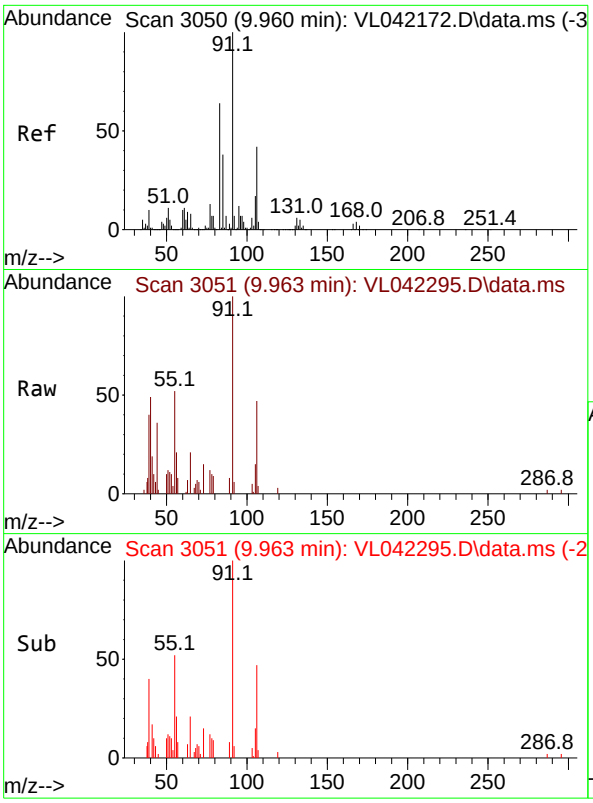




#59
m/p-Xylene
Concen: 0.195 ppbv m
RT: 9.529 min Scan# 2917
Delta R.T. -0.020 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Tgt Ion: 91 Resp: 9059

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 0.0 | 36.4 | 54.6# |

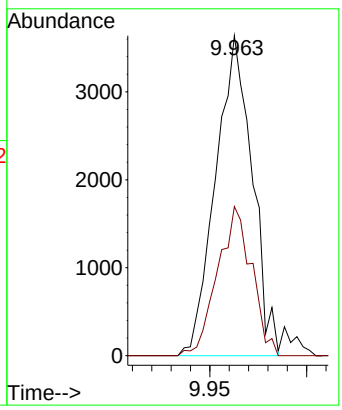





#60
o-Xylene
Concen: 0.103 ppbv
RT: 9.963 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Tgt Ion: 91 Resp: 476

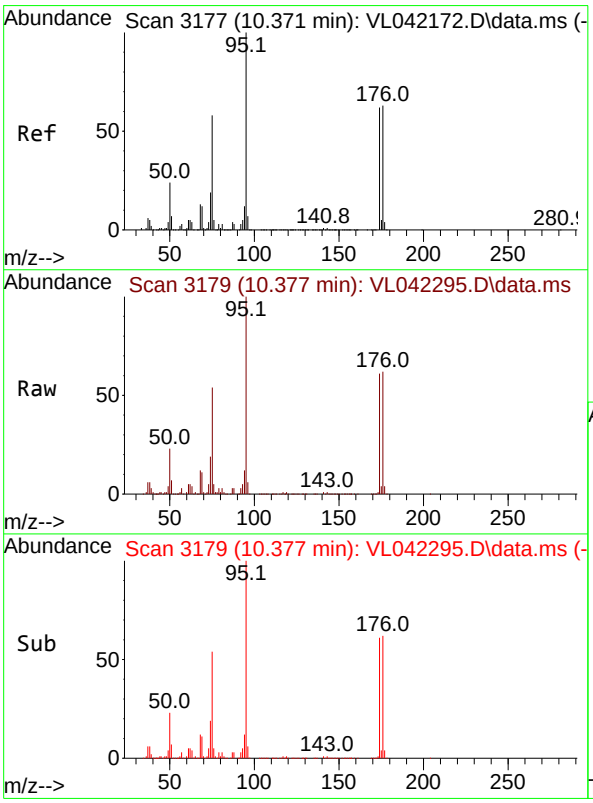
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 43.4 | 20.8 | 62.5 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-2-3242025

**Manual Integrations**
**APPROVED**

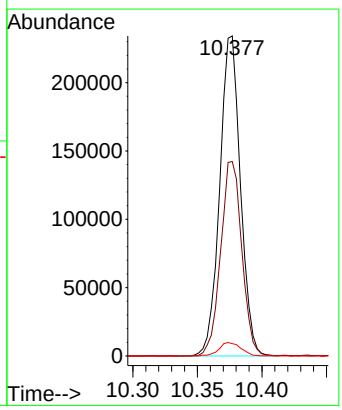
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025




#68
1-Bromo-4-Fluorobenzene
Concen: 9.709 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.006 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Tgt Ion: 95 Resp: 260627

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 62.2 | 50.6 | 76.0 |
| 175 | 4.5 | 3.8 | 5.6 |



LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042295.D
Acq On : 09 Apr 2025 16:23
Operator : SY/MD
Sample : Q1665-09
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-2-3242025

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

Signal : TIC: VL042295.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.431 | 410 | 415 | 420 | rBV | 4129338 | 4562717 | 100.00% | 41.033% |
| 2 | 1.489 | 430 | 433 | 439 | rVB2 | 670119 | 339449 | 7.44% | 3.053% |
| 3 | 1.560 | 451 | 455 | 459 | rVB2 | 191945 | 107746 | 2.36% | 0.969% |
| 4 | 1.622 | 470 | 474 | 478 | rVB | 223093 | 119679 | 2.62% | 1.076% |
| 5 | 1.722 | 500 | 505 | 509 | rVB | 78708 | 48107 | 1.05% | 0.433% |
| 6 | 1.835 | 535 | 540 | 548 | rBV2 | 318759 | 270034 | 5.92% | 2.428% |
| 7 | 1.887 | 548 | 556 | 564 | rBV | 634452 | 460116 | 10.08% | 4.138% |
| 8 | 1.962 | 575 | 579 | 584 | rVB | 74343 | 51516 | 1.13% | 0.463% |
| 9 | 2.059 | 599 | 609 | 618 | rBV2 | 72583 | 70998 | 1.56% | 0.638% |
| 10 | 2.560 | 758 | 764 | 775 | rBV | 148170 | 142597 | 3.13% | 1.282% |
| 11 | 2.787 | 825 | 834 | 840 | rBV | 563234 | 583683 | 12.79% | 5.249% |
| 12 | 2.826 | 840 | 846 | 861 | rVB2 | 231138 | 263623 | 5.78% | 2.371% |
| 13 | 3.959 | 1181 | 1196 | 1213 | rBV | 685084 | 1034851 | 22.68% | 9.306% |
| 14 | 6.933 | 2103 | 2115 | 2129 | rBV4 | 25955 | 60156 | 1.32% | 0.541% |
| 15 | 7.694 | 2338 | 2350 | 2363 | rBV6 | 24740 | 45915 | 1.01% | 0.413% |
| 16 | 8.882 | 2704 | 2717 | 2726 | rBV | 833396 | 1155582 | 25.33% | 10.392% |
| 17 | 8.937 | 2726 | 2734 | 2743 | rVB5 | 44994 | 81546 | 1.79% | 0.733% |
| 18 | 9.946 | 3038 | 3046 | 3065 | rVB9 | 26083 | 59766 | 1.31% | 0.537% |
| 19 | 10.377 | 3166 | 3179 | 3190 | rBV | 1085554 | 1229439 | 26.95% | 11.056% |
| 20 | 10.807 | 3302 | 3312 | 3320 | rBV2 | 229938 | 262238 | 5.75% | 2.358% |
| 21 | 10.856 | 3320 | 3327 | 3337 | rVB2 | 98488 | 122350 | 2.68% | 1.100% |
| 22 | 11.426 | 3492 | 3503 | 3515 | rVB4 | 37751 | 47637 | 1.04% | 0.428% |

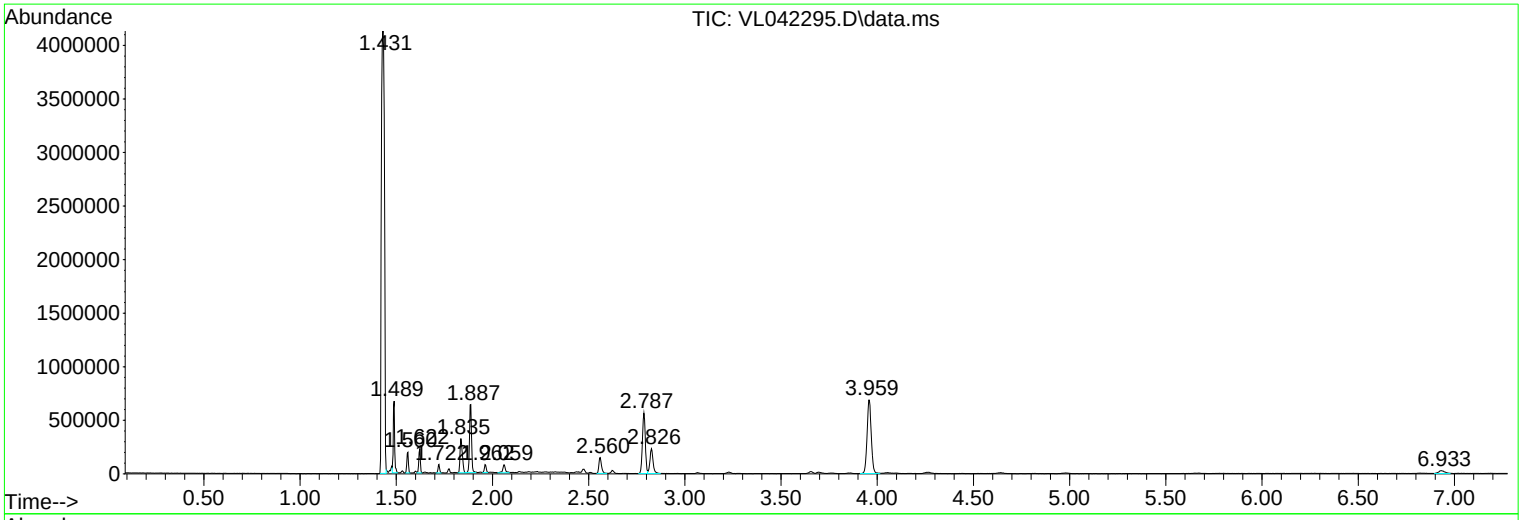
Sum of corrected areas: 11119745

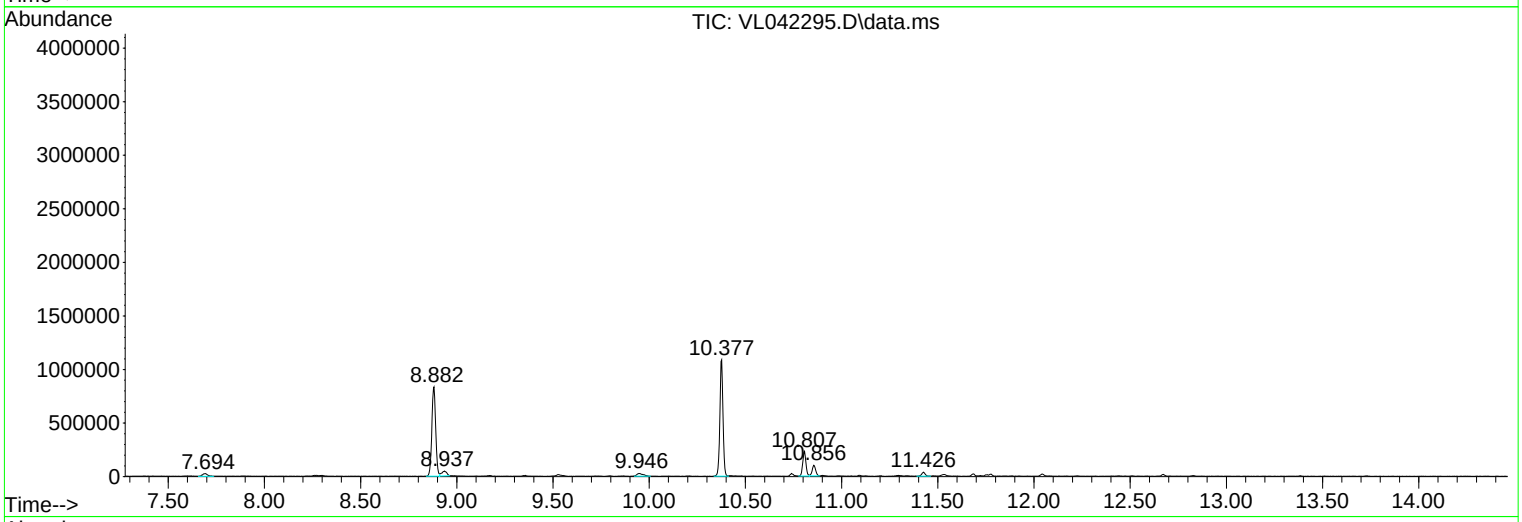
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042295.D
Acq On : 09 Apr 2025 16:23
Operator : SY/MD
Sample : Q1665-09
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

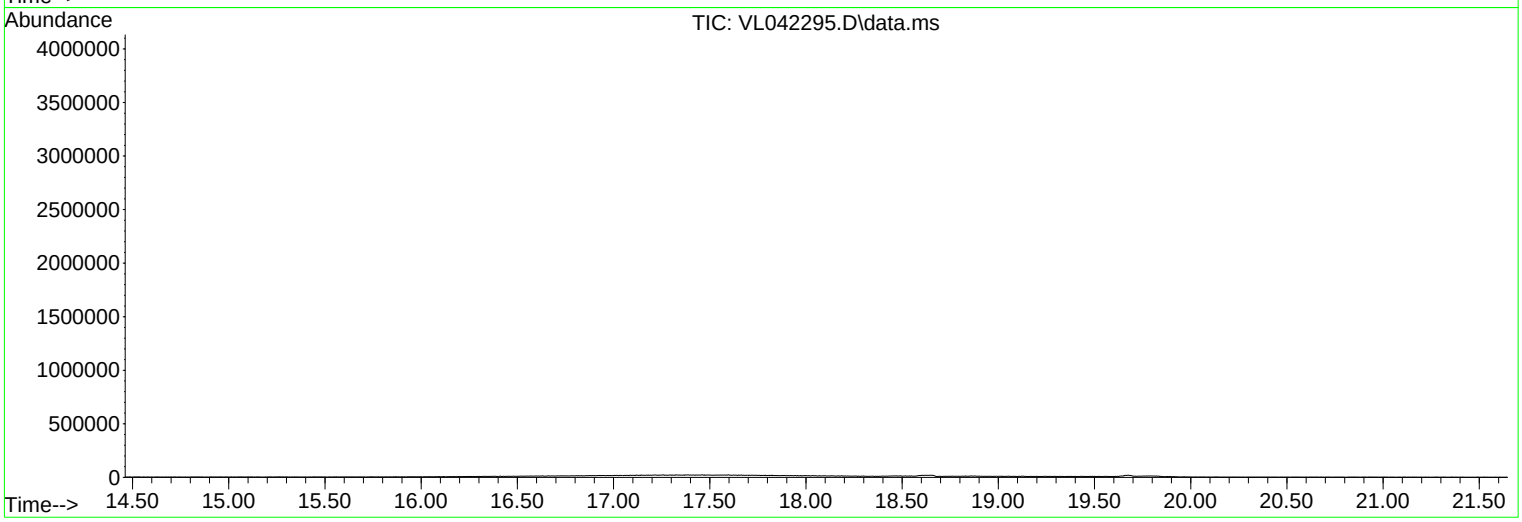
**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-2-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042295.D
Acq On : 09 Apr 2025 16:23
Operator : SY/MD
Sample : Q1665-09
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-2-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

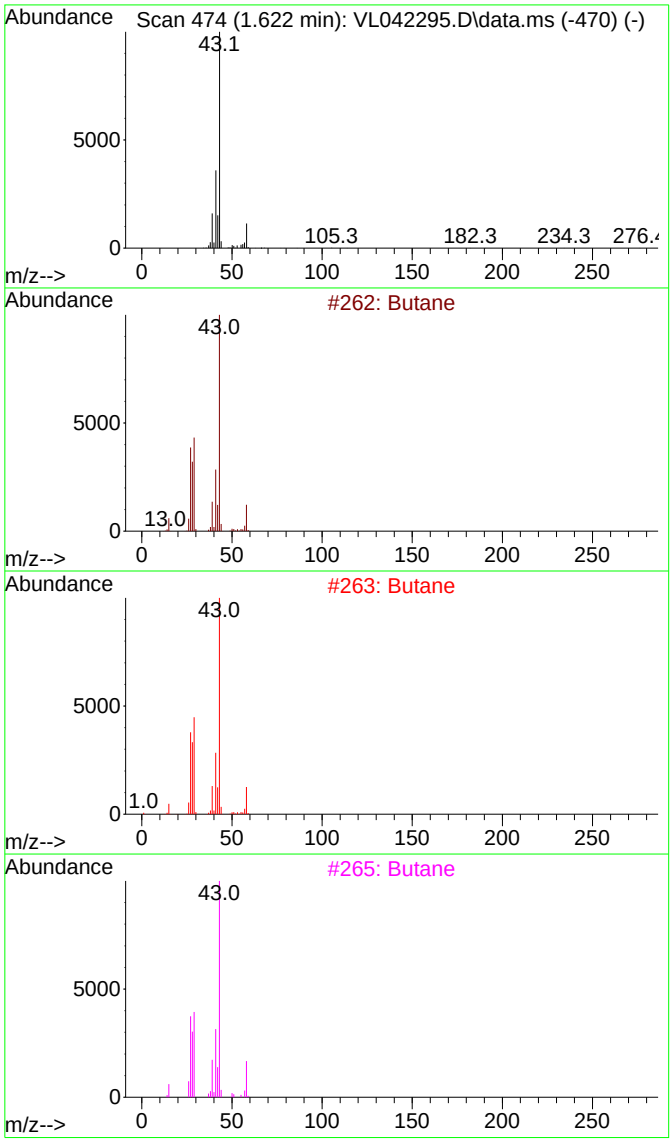
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

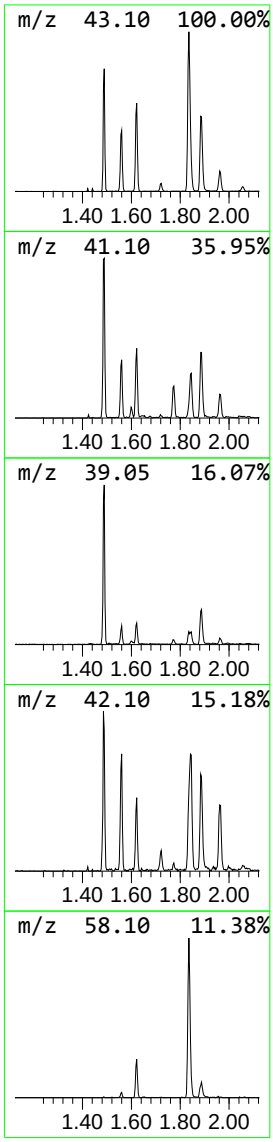
**********

Peak Number 1 Butane Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.622 | 2.05 ppbv | 119679 | Bromochloromethane | 2.787 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane | 58 | C4H10 | 000106-97-8 | 72 |
| 2 | Butane | 58 | C4H10 | 000106-97-8 | 72 |
| 3 | Butane | 58 | C4H10 | 000106-97-8 | 64 |
| 4 | Butane | 58 | C4H10 | 000106-97-8 | 64 |
| 5 | Isobutane | 58 | C4H10 | 000075-28-5 | 9 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042295.D
Acq On : 09 Apr 2025 16:23
Operator : SY/MD
Sample : Q1665-09
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-2-3242025

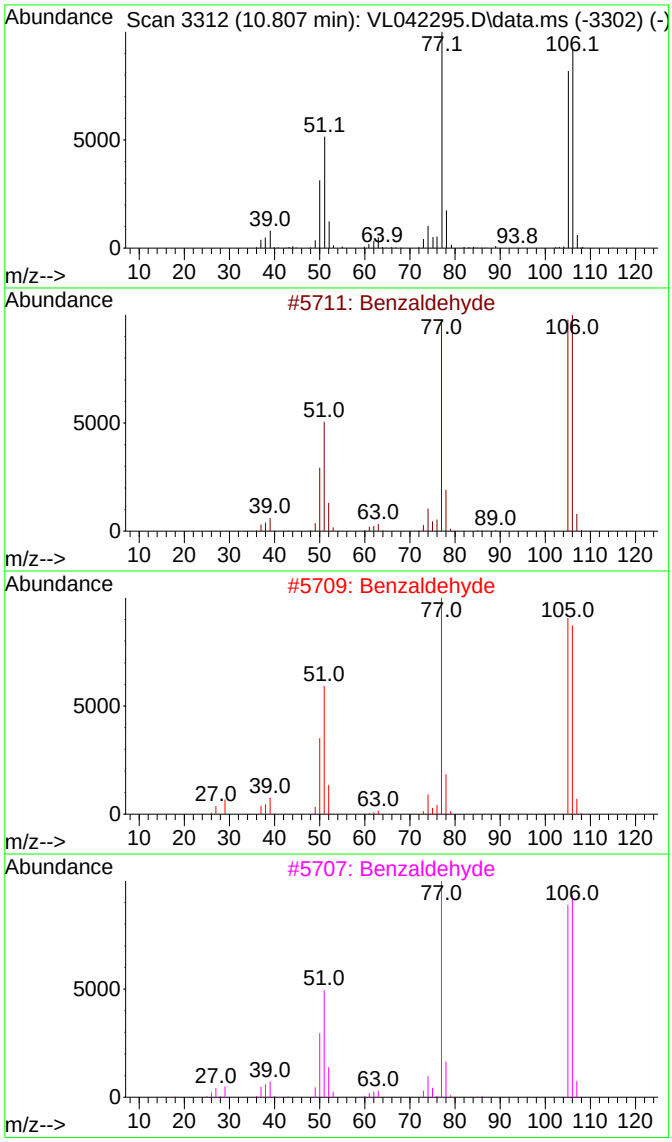
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

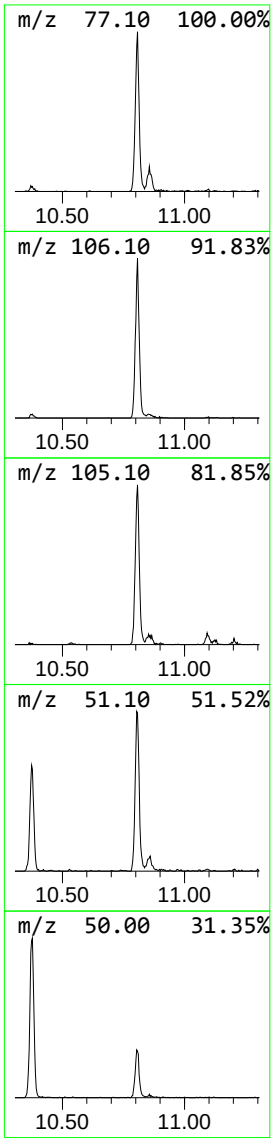
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 2 Benzaldehyde Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.807 | 2.27 ppbv | 262238 | Chlorobenzene-d5 | 8.882 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzaldehyde | 106 | C7H6O | 000100-52-7 | 97 |
| 2 | Benzaldehyde | 106 | C7H6O | 000100-52-7 | 97 |
| 3 | Benzaldehyde | 106 | C7H6O | 000100-52-7 | 96 |
| 4 | Benzaldehyde | 106 | C7H6O | 000100-52-7 | 94 |
| 5 | Benzaldehyde | 106 | C7H6O | 000100-52-7 | 91 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042295.D
Acq On : 09 Apr 2025 16:23
Operator : SY/MD
Sample : Q1665-09
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-2-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

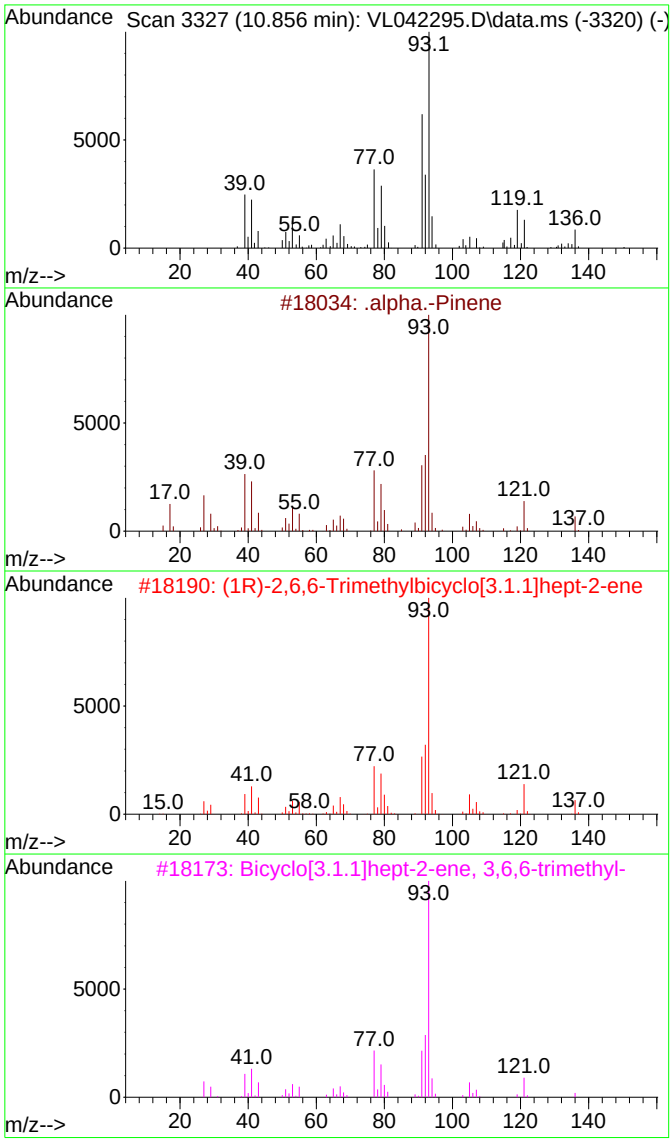
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

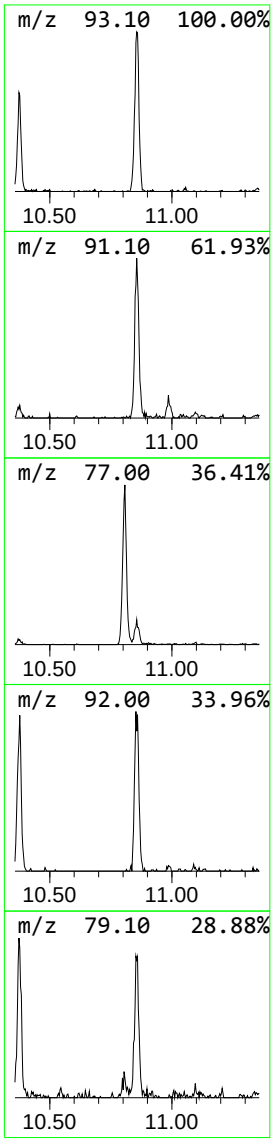
**********

Peak Number 3 .alpha.-Pinene Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.856 | 1.06 ppbv | 122350 | Chlorobenzene-d5 | 8.882 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | .alpha.-Pinene | 136 | C10H16 | 000080-56-8 | 90 |
| 2 | (1R)-2,6,6-Trimethylbicyclo[3.1.... | 136 | C10H16 | 007785-70-8 | 90 |
| 3 | Bicyclo[3.1.1]hept-2-ene, 3,6,6-... | 136 | C10H16 | 004889-83-2 | 90 |
| 4 | .gamma.-Terpinene | 136 | C10H16 | 000099-85-4 | 90 |
| 5 | .beta.-Pinene | 136 | C10H16 | 000127-91-3 | 87 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042295.D
Acq On : 09 Apr 2025 16:23
Operator : SY/MD
Sample : Q1665-09
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-2-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Butane | 1.622 | 2.0 | ppbv | 119679 | 1 | 2.787 | 583683 | 10.0 |
| Benzaldehyde | 10.807 | 2.3 | ppbv | 262238 | 3 | 8.882 | 1155580 | 10.0 |
| .alpha.-Pinene | 10.856 | 1.1 | ppbv | 122350 | 3 | 8.882 | 1155580 | 10.0 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B10-4-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-10 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042319.D | 1 | | 04/11/25 14:27 | VL041125 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.39 | 1.93 | J | 1.04 | 2.47 | ug/m3 |
| 64-17-5 | Ethanol | 870 | 1640 | EQ | 0.60 | 0.94 | ug/m3 |
| 74-87-3 | Chloromethane | 0.61 | 1.26 | | 0.21 | 1.03 | ug/m3 |
| 75-01-4 | Vinyl Chloride | 0.010 | 0.030 | U | 0.030 | 0.080 | ug/m3 |
| 74-83-9 | Bromomethane | 0.14 | 0.54 | U | 0.54 | 1.94 | ug/m3 |
| 75-00-3 | Chloroethane | 0.17 | 0.45 | U | 0.45 | 1.32 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | 0.13 | 0.38 | U | 0.38 | 1.47 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | 0.19 | 1.07 | J | 0.90 | 2.81 | ug/m3 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.16 | 1.23 | U | 1.23 | 3.83 | ug/m3 |
| 76-14-2 | Dichlorotetrafluoroethane | 0.090 | 0.63 | U | 0.63 | 3.49 | ug/m3 |
| 593-60-2 | Bromoethene | 0.12 | 0.52 | U | 0.52 | 2.19 | ug/m3 |
| 75-65-0 | tert-Butyl alcohol | 0.21 | 0.64 | J | 0.58 | 1.52 | ug/m3 |
| 142-82-5 | Heptane | 0.14 | 0.57 | J | 0.45 | 2.05 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | 210 | 516 | E | 0.17 | 1.23 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethene | 0.14 | 0.56 | U | 0.56 | 1.98 | ug/m3 |
| 67-64-1 | Acetone | 76.7 | 182 | E | 0.57 | 1.19 | ug/m3 |
| 75-15-0 | Carbon Disulfide | 0.16 | 0.50 | U | 0.50 | 1.56 | ug/m3 |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.12 | 0.43 | U | 0.43 | 1.80 | ug/m3 |
| 75-09-2 | Methylene Chloride | 0.59 | 2.05 | | 0.66 | 1.74 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.19 | 0.75 | U | 0.75 | 1.98 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | 0.13 | 0.53 | U | 0.53 | 2.02 | ug/m3 |
| 110-82-7 | Cyclohexane | 0.22 | 0.76 | U | 0.76 | 1.72 | ug/m3 |
| 78-93-3 | 2-Butanone | 160 | 472 | E | 0.35 | 1.47 | ug/m3 |
| 56-23-5 | Carbon Tetrachloride | 0.080 | 0.50 | | 0.060 | 0.19 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.090 | 0.36 | U | 0.36 | 1.98 | ug/m3 |
| 67-66-3 | Chloroform | 0.58 | 2.83 | | 0.39 | 2.44 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.010 | 0.050 | U | 0.050 | 0.16 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | 0.10 | 0.47 | J | 0.47 | 2.34 | ug/m3 |
| 71-43-2 | Benzene | 0.47 | 1.50 | J | 0.29 | 1.60 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | 0.090 | 0.36 | U | 0.36 | 2.02 | ug/m3 |
| 79-01-6 | Trichloroethene | 0.020 | 0.11 | U | 0.11 | 0.16 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | 0.11 | 0.51 | U | 0.51 | 2.31 | ug/m3 |
| 75-27-4 | Bromodichloromethane | 0.080 | 0.54 | U | 0.54 | 3.35 | ug/m3 |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.090 | 0.37 | U | 0.37 | 2.05 | ug/m3 |
| 108-88-3 | Toluene | 0.42 | 1.58 | J | 0.41 | 1.88 | ug/m3 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B10-4-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-10 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042319.D | 1 | | 04/11/25 14:27 | VL041125 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.060 | 0.27 | U | 0.27 | 2.27 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.060 | 0.27 | U | 0.27 | 2.27 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.070 | 0.38 | U | 0.38 | 2.73 | ug/m3 |
| 124-48-1 | Dibromochloromethane | 0.070 | 0.60 | U | 0.60 | 4.26 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane | 0.070 | 0.54 | U | 0.54 | 0.77 | ug/m3 |
| 127-18-4 | Tetrachloroethene | 0.020 | 0.14 | U | 0.14 | 0.20 | ug/m3 |
| 108-90-7 | Chlorobenzene | 0.080 | 0.37 | U | 0.37 | 2.30 | ug/m3 |
| 100-41-4 | Ethyl Benzene | 0.12 | 0.52 | U | 0.52 | 2.17 | ug/m3 |
| 179601-23-1 | m/p-Xylene | 0.21 | 0.91 | U | 0.91 | 4.34 | ug/m3 |
| 95-47-6 | o-Xylene | 0.12 | 0.52 | U | 0.52 | 2.17 | ug/m3 |
| 100-42-5 | Styrene | 0.11 | 0.47 | U | 0.47 | 2.13 | ug/m3 |
| 75-25-2 | Bromoform | 0.060 | 0.62 | U | 0.62 | 5.17 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.010 | 0.070 | UQ | 0.070 | 0.21 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | 0.11 | 0.57 | U | 0.57 | 2.59 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.11 | 0.54 | U | 0.54 | 2.46 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.11 | 0.54 | J | 0.39 | 2.46 | ug/m3 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.080 | 0.48 | U | 0.48 | 3.01 | ug/m3 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.050 | 0.30 | U | 0.30 | 3.01 | ug/m3 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.080 | 0.48 | UQ | 0.48 | 3.01 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.090 | 0.67 | U | 0.67 | 3.71 | ug/m3 |
| 87-68-3 | Hexachloro-1,3-Butadiene | 0.090 | 0.96 | U | 0.96 | 5.33 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | 0.13 | 0.29 | U | 0.29 | 1.11 | ug/m3 |
| 91-20-3 | Naphthalene | 0.080 | 0.42 | U | 0.42 | 0.52 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | 0.12 | 0.59 | U | 0.59 | 2.46 | ug/m3 |
| 110-54-3 | Hexane | 2.20 | 7.75 | | 0.39 | 1.76 | ug/m3 |
| 107-05-1 | Allyl Chloride | 0.15 | 0.47 | U | 0.47 | 1.57 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | 0.21 | 0.76 | U | 0.76 | 1.80 | ug/m3 |
| 80-62-6 | Methyl Methacrylate | 0.090 | 0.37 | U | 0.37 | 2.05 | ug/m3 |
| **SURROGATES** | | | | | | | |
| 460-00-4 | 1-Bromo-4-Fluorobenzene | 9.60 | | | 70 (65) - 130 (135) | 96% | SPK: 10 |
| **INTERNAL STANDARDS** | | | | | | | |
| 74-97-5 | Bromochloromethane | 191000 | | 2.787 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 461000 | | 3.962 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 384000 | | 8.885 | | | |
| **TENTITIVE IDENTIFIED COMPOUNDS** | | | | | | | |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B10-4-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-10 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042319.D | 1 | | 04/11/25 14:27 | VL041125 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 75-45-6 | Chlorodifluoromethane | 0.31 | | J | | 1.48 | ppbv |
| 115-07-1 | Propene | 110 | | J | | 1.49 | ppbv |
| 000138-86-3 | Limonene | 6.40 | | J | | 12.0 | ppbv |

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042319.D
Acq On : 11 Apr 2025 14:27
Operator : SY/MD
Sample : Q1665-10
Misc : 400mL/MSVOA_L
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 11 23:00:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) Bromochloromethane | 2.787 | 49 | 190778 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.962 | 114 | 461210 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.885 | 117 | 383940 | 10.000 | ppbv | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95 | 301822 | 9.573 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 95.700% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.499 | 85 | 10940 | 0.388 | ppbv | | 100 |
| 3) Chlorodifluoromethane | 1.476 | 51 | 8870m | 0.308 | ppbv | | |
| 4) Chloromethane | 1.531 | 50 | 6976 | 0.606 | ppbv | | 98 |
| 9) Propene | 1.486 | 41 | 1470651m | 111.500 | ppbv | | |
| 10) Heptane | 4.985 | 43 | 4922m | 0.140 | ppbv | | |
| 11) Trichlorofluoromethane | 1.878 | 101 | 5102 | 0.186 | ppbv | | 87 |
| 13) Ethanol | 1.722 | 45 | 1088476 | 872.986 | ppbv | | 86 |
| 15) Acetone | 1.836 | 43 | 2047600 | 76.743 | ppbv | # | 79 |
| 17) tert-Butyl alcohol | 2.046 | 59 | 6995 | 0.210 | ppbv | # | 37 |
| 19) Isopropyl Alcohol | 1.891 | 45 | 3151010 | 209.311 | ppbv | # | 32 |
| 20) Methylene Chloride | 2.062 | 84 | 5890 | 0.593 | ppbv | | 86 |
| 26) Hexane | 2.826 | 57 | 60038 | 2.245 | ppbv | # | 4 |
| 29) Chloroform | 2.849 | 83 | 22740 | 0.581 | ppbv | | 100 |
| 34) 2-Butanone | 2.564 | 43 | 5516146 | 164.939 | ppbv | # | 36 |
| 35) Carbon Tetrachloride | 3.761 | 117 | 2766m | 0.077 | ppbv | | |
| 36) Benzene | 3.655 | 78 | 21386 | 0.468 | ppbv | # | 93 |
| 44) 2,2,4-Trimethylpentane | 4.645 | 57 | 7908m | 0.102 | ppbv | | |
| 53) Toluene | 6.937 | 91 | 22633m | 0.418 | ppbv | | |
| 59) m/p-Xylene | 9.532 | 91 | 10027m | 0.184 | ppbv | | |
| 74) 1,2,4-Trimethylbenzene | 11.539 | 105 | 7147 | 0.105 | ppbv | # | 67 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042319.D
Acq On : 11 Apr 2025 14:27
Operator : SY/MD
Sample : Q1665-10
Misc : 400mL/MSVOA_L
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 11 23:00:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025

**Manual Integrations APPROVED**
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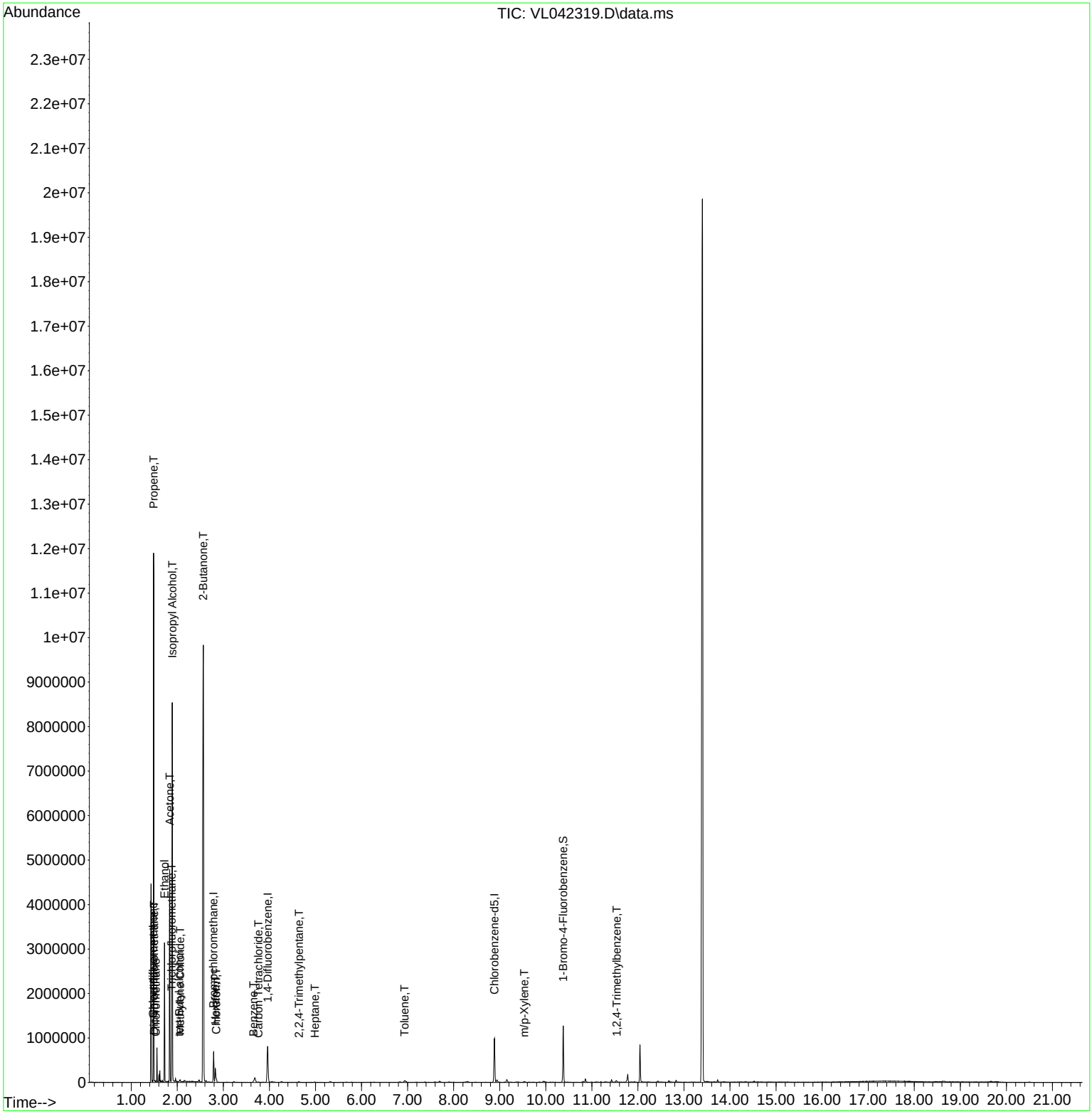
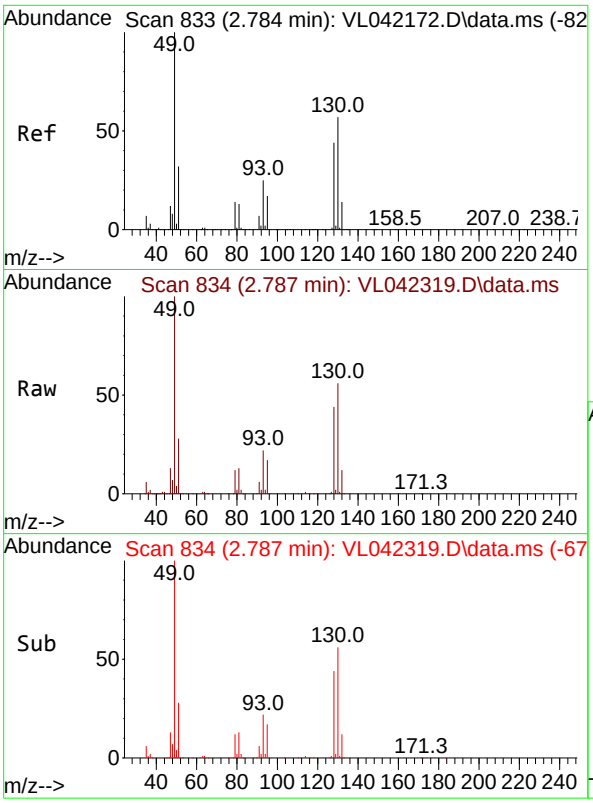
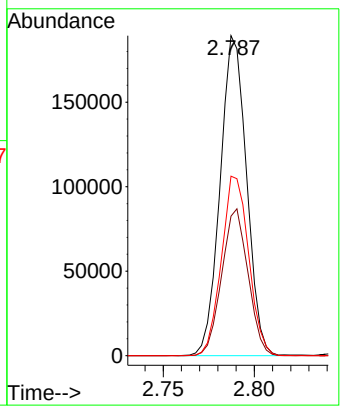





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion: 49 Resp: 19077

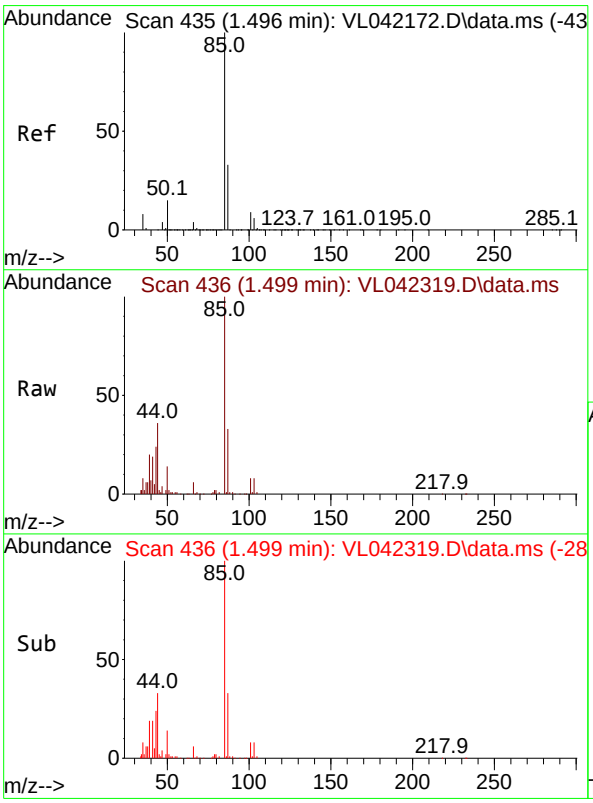
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 45.7 | 22.9 | 68.5 |
| 130 | 57.8 | 28.8 | 86.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025

**Manual Integrations**
**APPROVED**

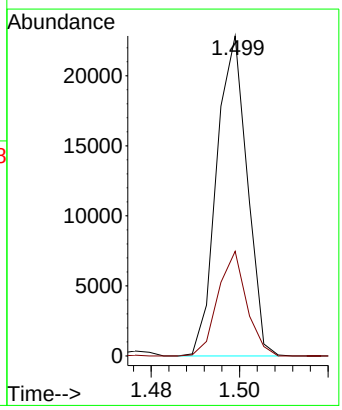
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

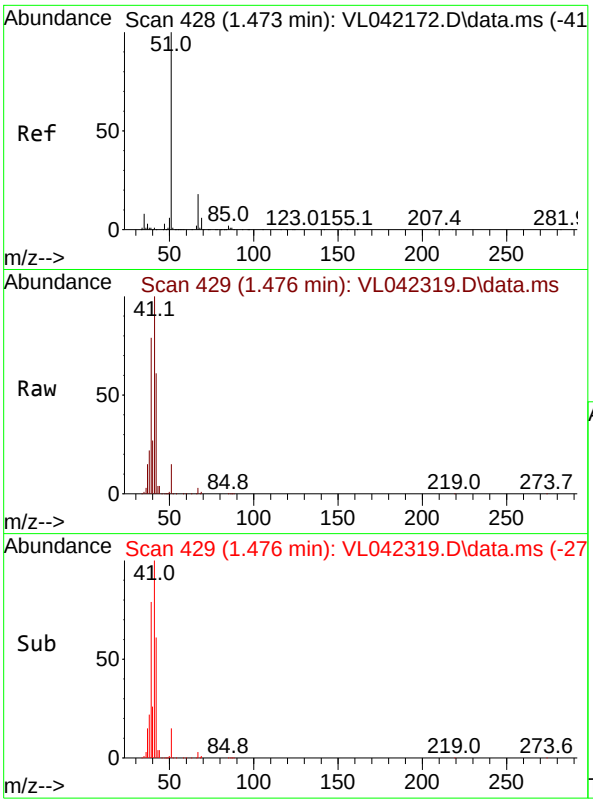



#2
Dichlorodifluoromethane
Concen: 0.388 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion: 85 Resp: 10940

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.7 | 26.1 | 39.1 |

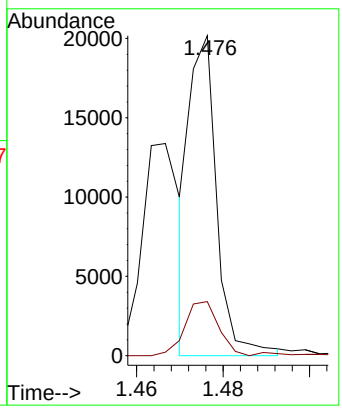





#3
Chlorodifluoromethane
Concen: 0.308 ppbv m
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion: 51 Resp: 887

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 24.1 | 15.0 | 22.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025

**Manual Integrations**
**APPROVED**

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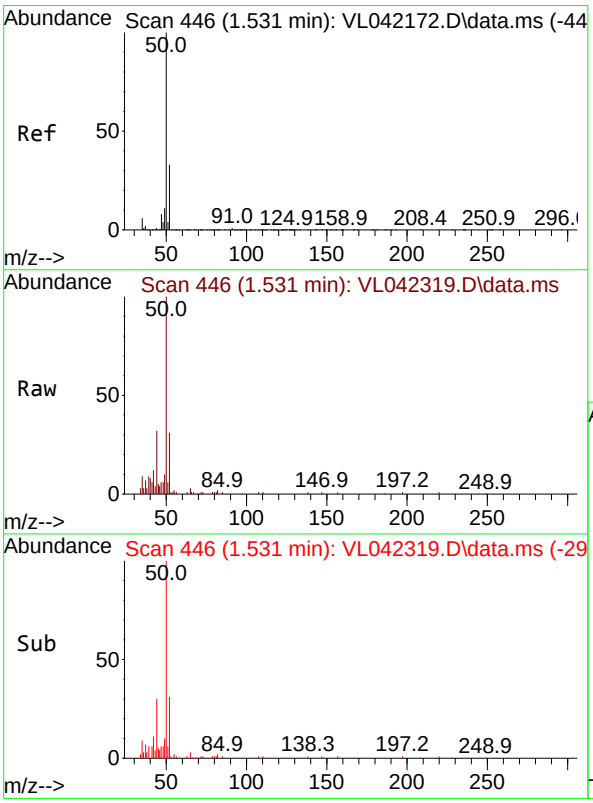
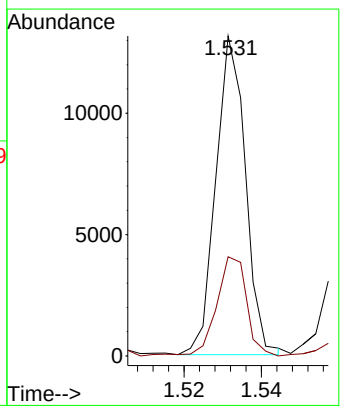
Supervised By :Mahesh Dadoda 04/17/2025

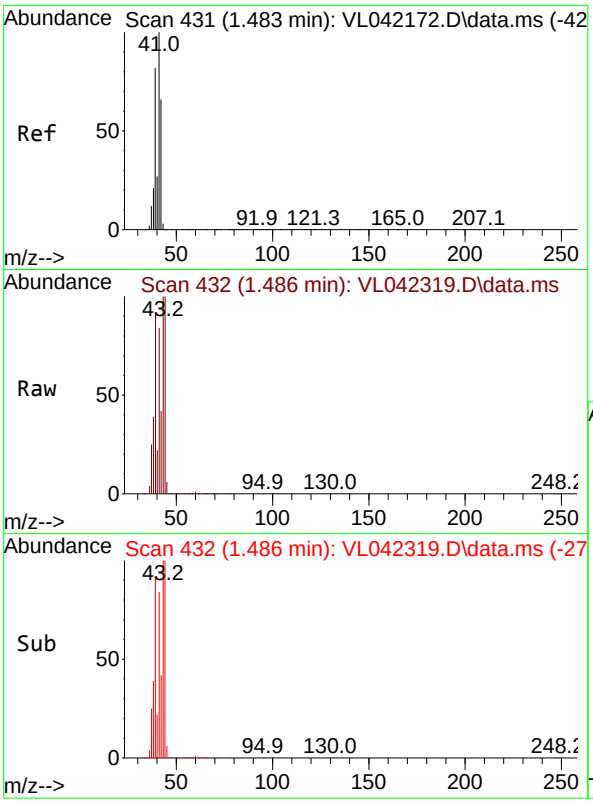



#4
Chloromethane
Concen: 0.606 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion: 50 Resp: 6976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 31.5 | 26.1 | 39.1 |

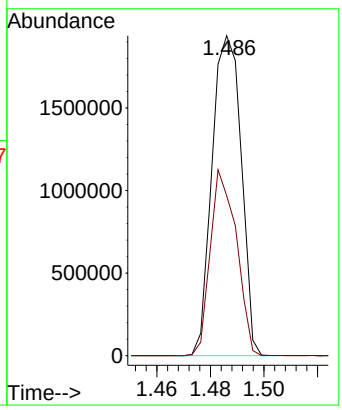





#9
Propene
Concen: 111.500 ppbv m
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion: 41 Resp: 147065

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 4.1 | 55.4 | 83.2# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025

**Manual Integrations**
**APPROVED**

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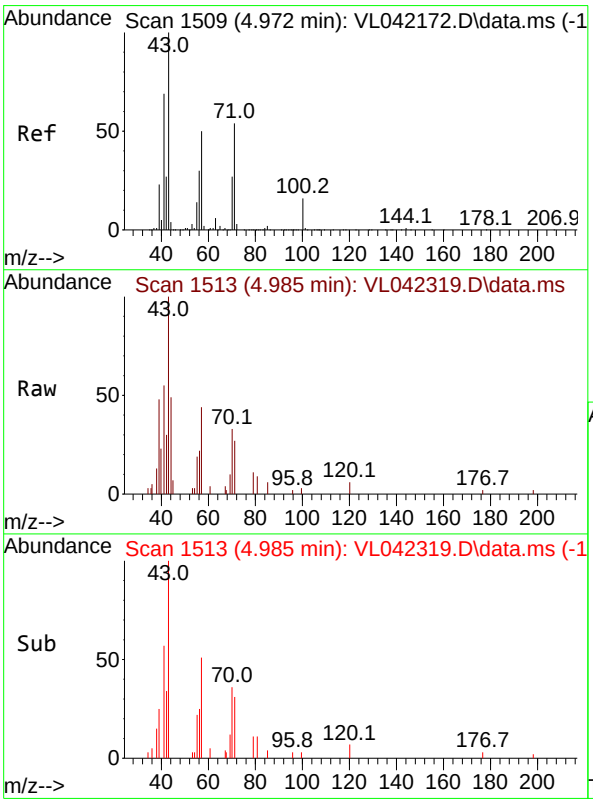
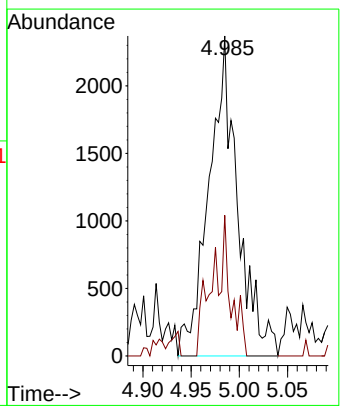
Supervised By :Mahesh Dadoda 04/17/2025

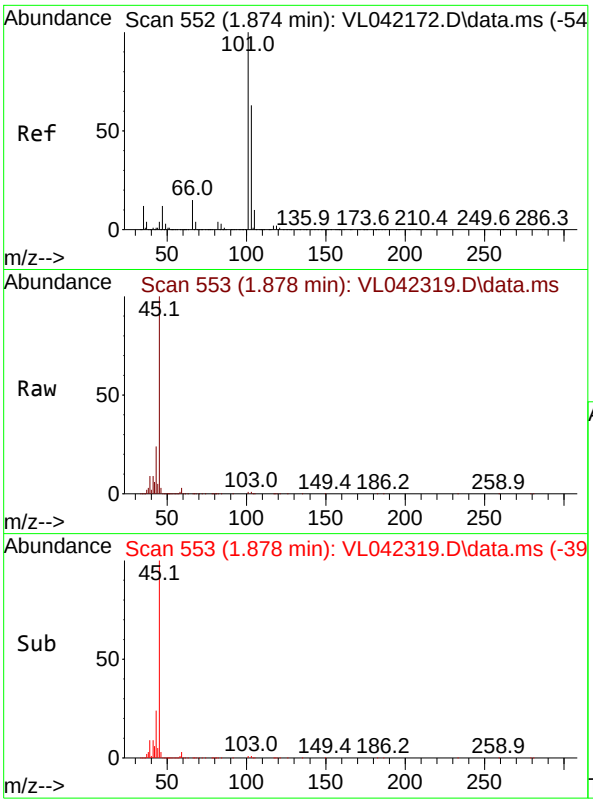



#10
Heptane
Concen: 0.140 ppbv m
RT: 4.985 min Scan# 1513
Delta R.T. 0.013 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion: 43 Resp: 4922

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 27.8 | 39.4 | 59.2# |

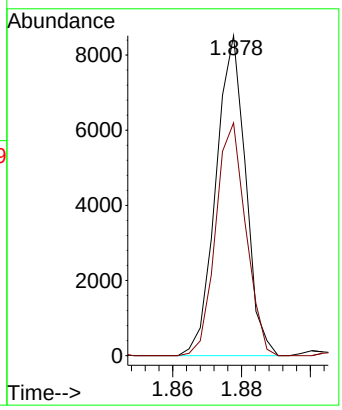





#11
Trichlorofluoromethane
Concen: 0.186 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion:101 Resp: 510

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 72.7 | 50.2 | 75.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025

**Manual Integrations**
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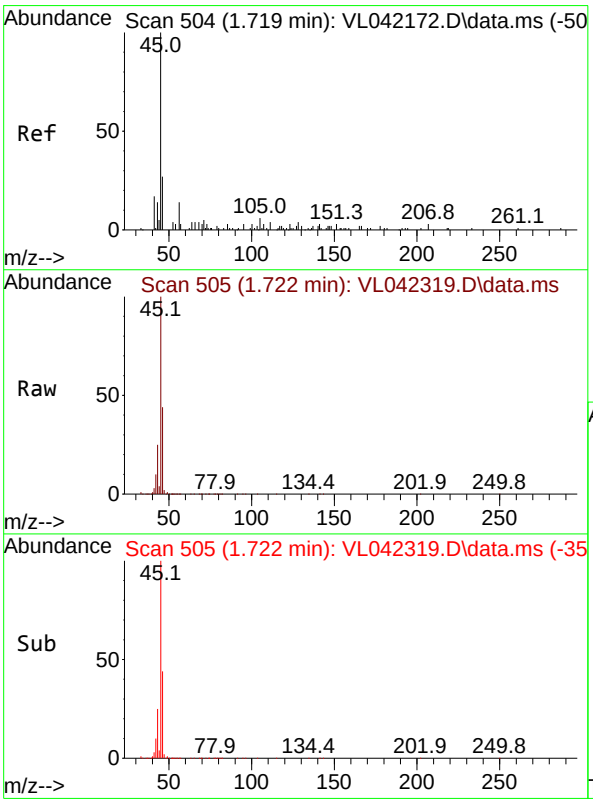
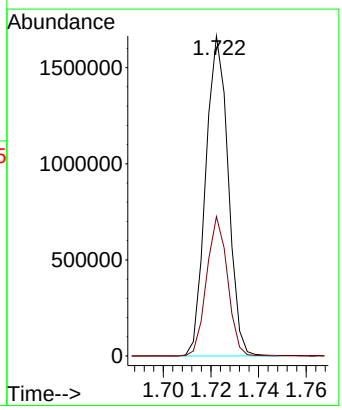
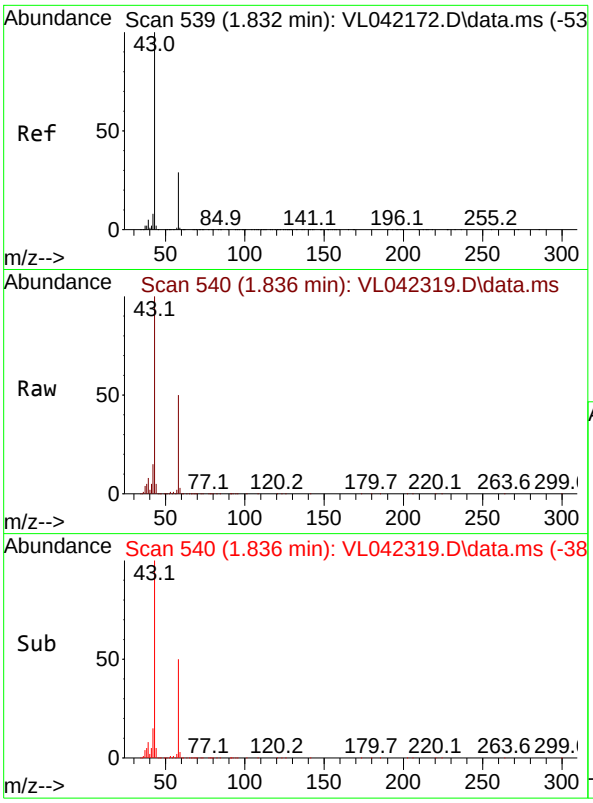



#13
Ethanol
Concen: 872.986 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion: 45 Resp: 1088476

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 40.7 | 20.2 | 80.8 |






#15
Acetone
Concen: 76.743 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion: 43 Resp: 204760

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 40.0 | 23.2 | 34.8# |

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025

**Manual Integrations**
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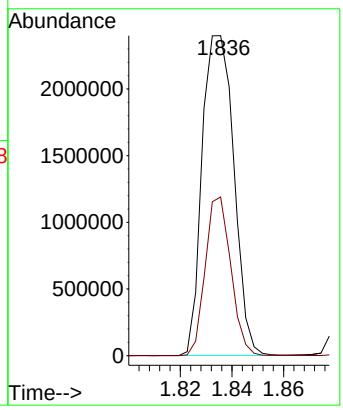
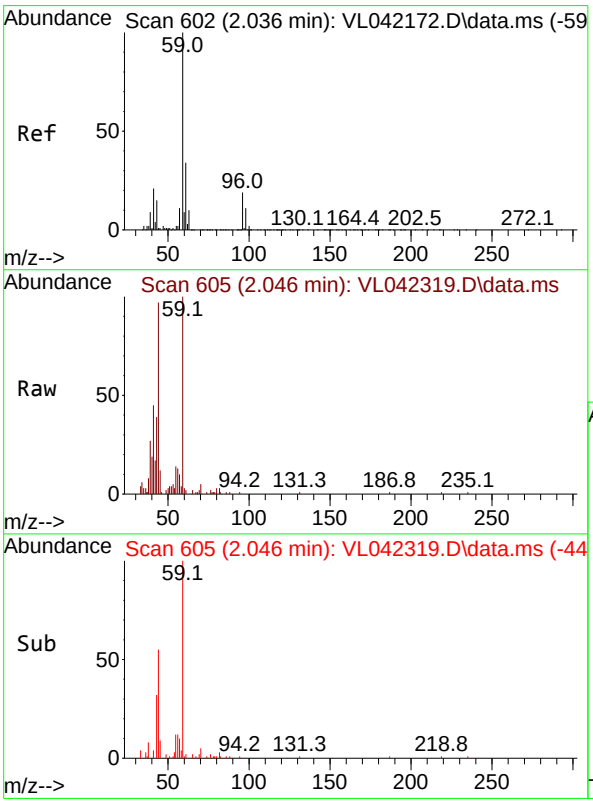
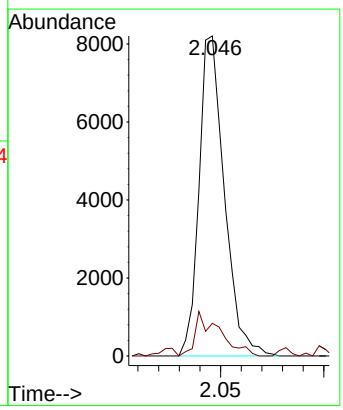


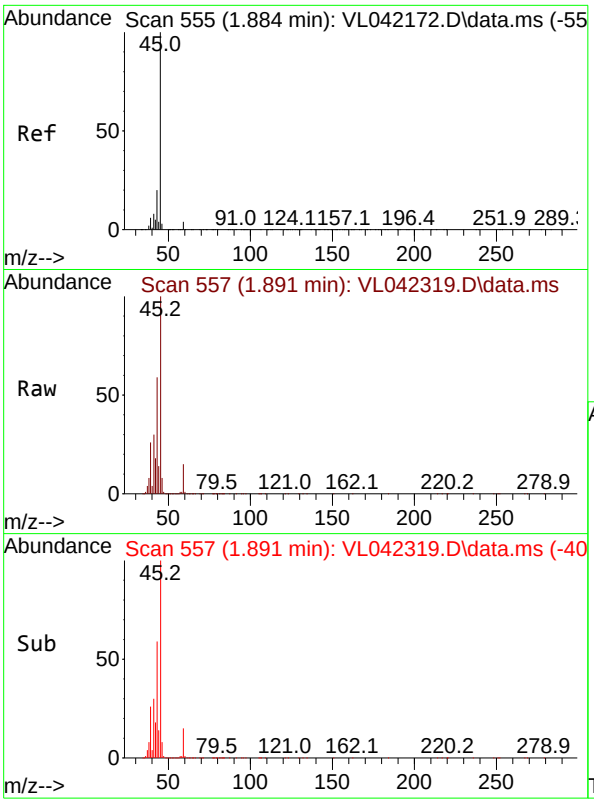




#17
tert-Butyl alcohol
Concen: 0.210 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.010 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion: 59 Resp: 6995

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 35.0 | 8.9 | 13.3# |

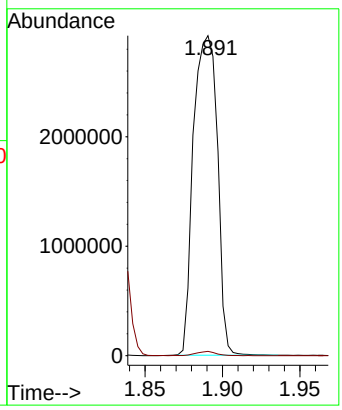





#19
Isopropyl Alcohol
Concen: 209.311 ppbv
RT: 1.891 min Scan# 5
Delta R.T. 0.006 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion: 45 Resp: 315101

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 1.1 | 36.9 | 55.3# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025

**Manual Integrations**
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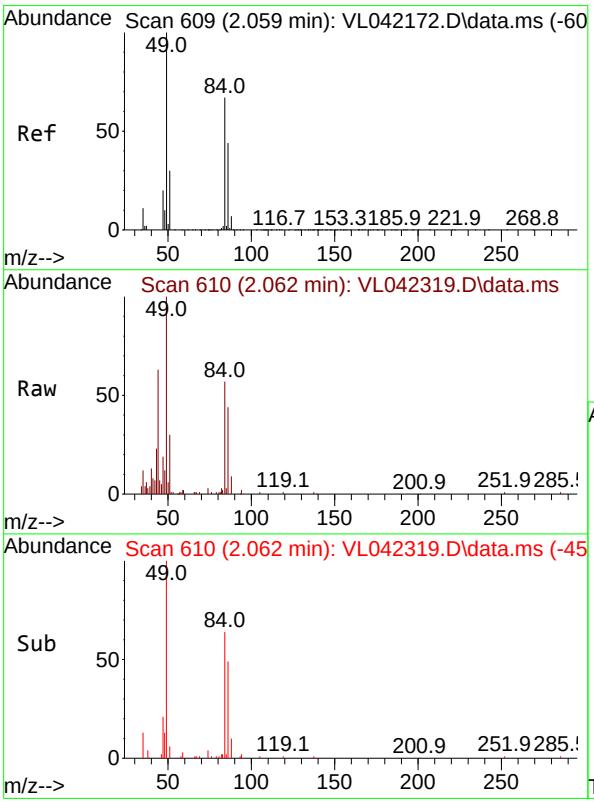
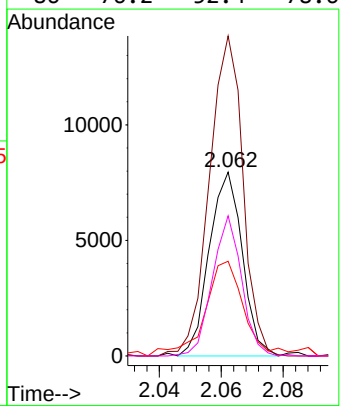
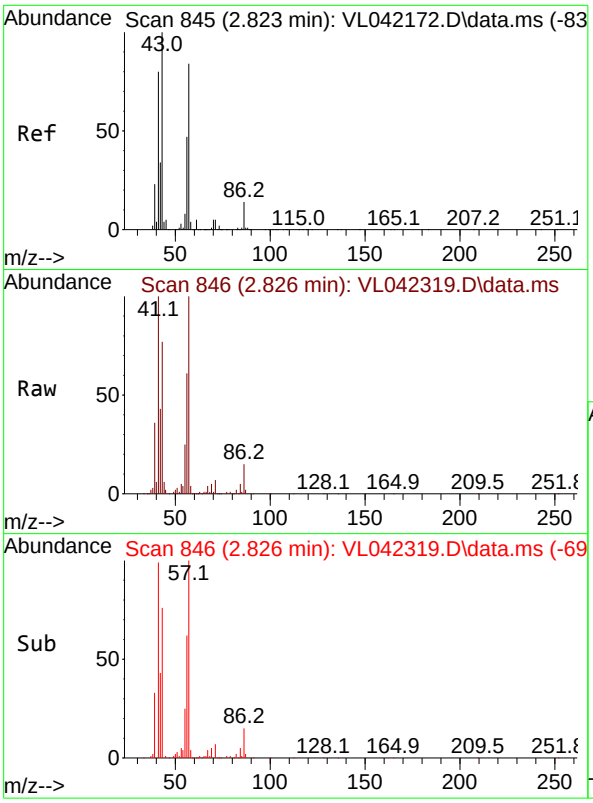



#20
Methylene Chloride
Concen: 0.593 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion: 84 Resp: 5890

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 173.3 | 120.2 | 180.4 |
| 51 | 47.2 | 37.4 | 56.0 |
| 86 | 76.2 | 52.4 | 78.6 |

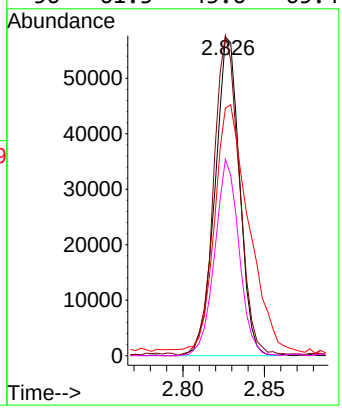





#26
Hexane
Concen: 2.245 ppbv
RT: 2.826 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion: 57 Resp: 6003

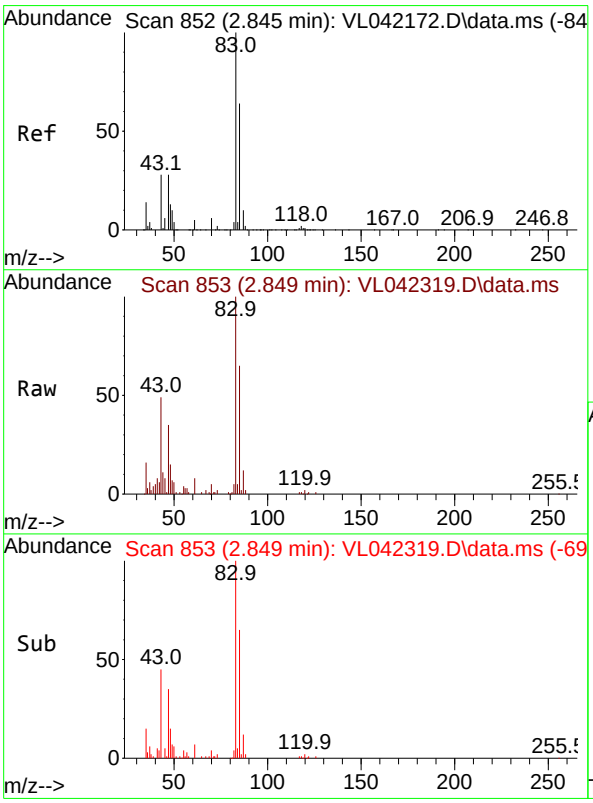
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 106.2 | 76.6 | 114.8 |
| 43 | 0.0 | 207.8 | 311.8 |
| 56 | 61.3 | 43.6 | 65.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025

**Manual Integrations**
**APPROVED**

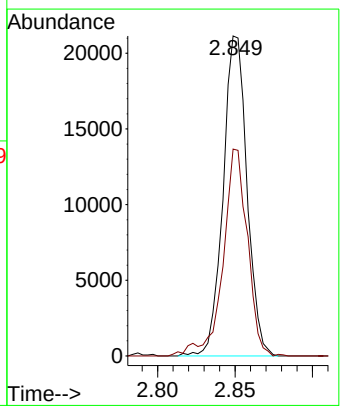
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

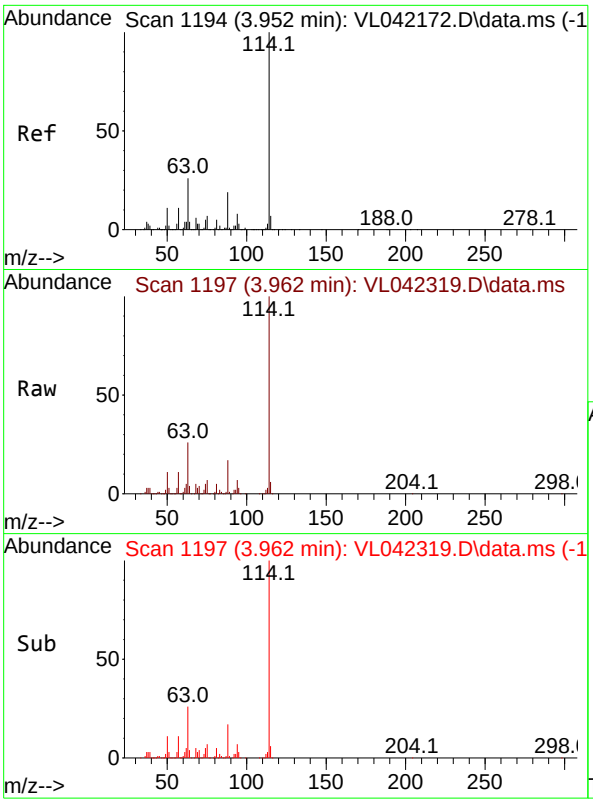



#29
Chloroform
Concen: 0.581 ppbv
RT: 2.849 min Scan# 853
Delta R.T. 0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion: 83 Resp: 22740

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.2 | 51.4 | 77.2 |

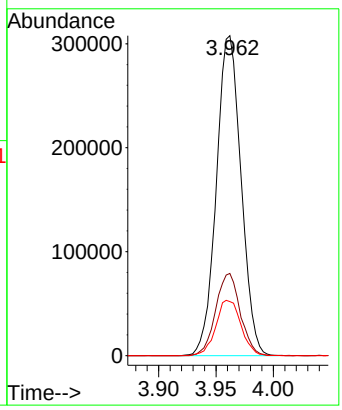





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion:114 Resp: 46121

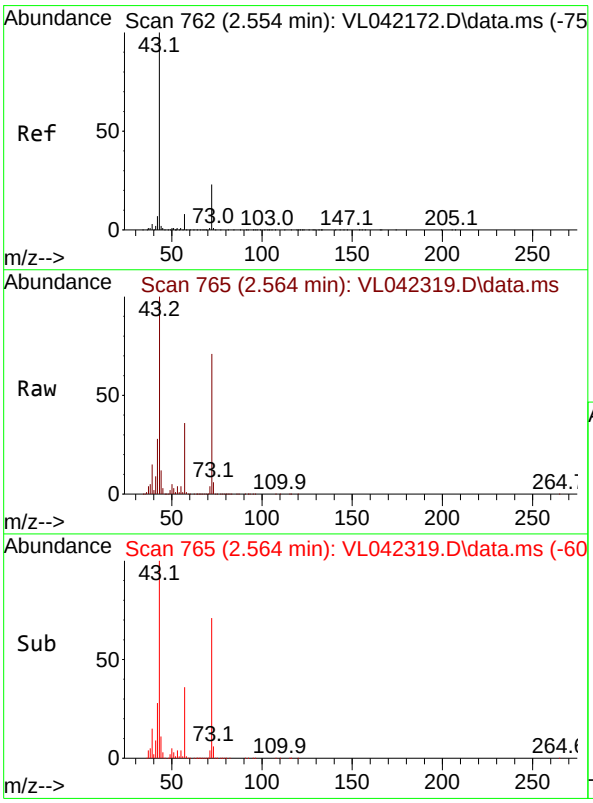
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.6 | 20.7 | 31.1 |
| 88 | 17.7 | 15.0 | 22.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025

**Manual Integrations**
**APPROVED**

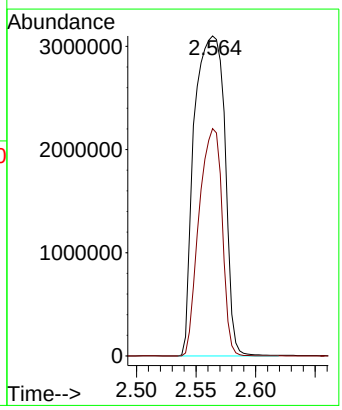
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

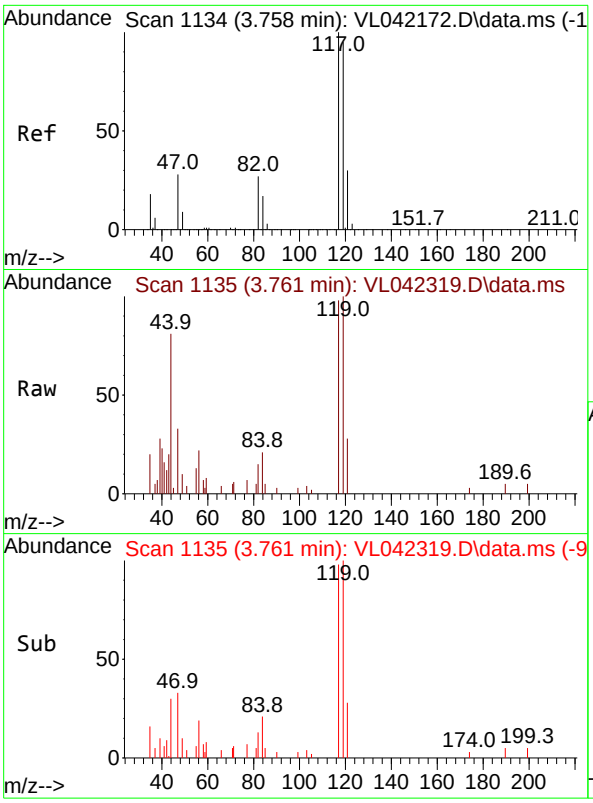



#34
2-Butanone
Concen: 164.939 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.010 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion: 43 Resp: 5516146

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 53.8 | 18.2 | 27.2# |

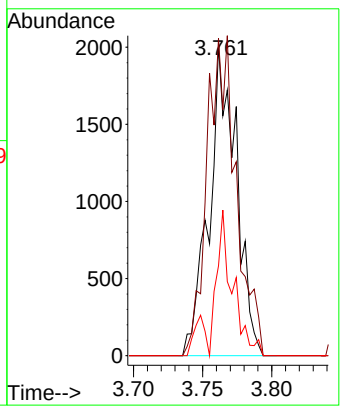





#35
Carbon Tetrachloride
Concen: 0.077 ppbv m
RT: 3.761 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion:117 Resp: 276

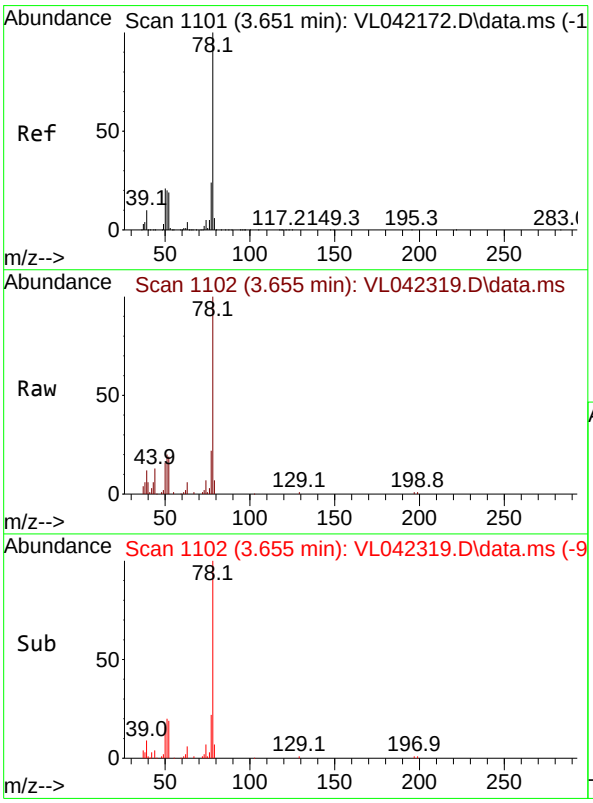
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 102.3 | 76.2 | 114.2 |
| 121 | 29.0 | 24.2 | 36.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025

**Manual Integrations**
**APPROVED**

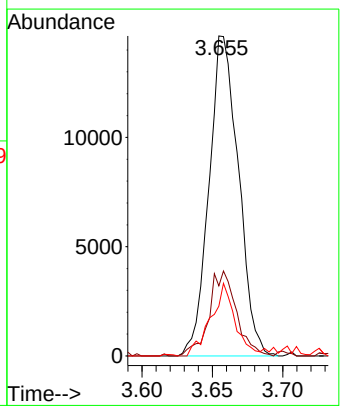
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

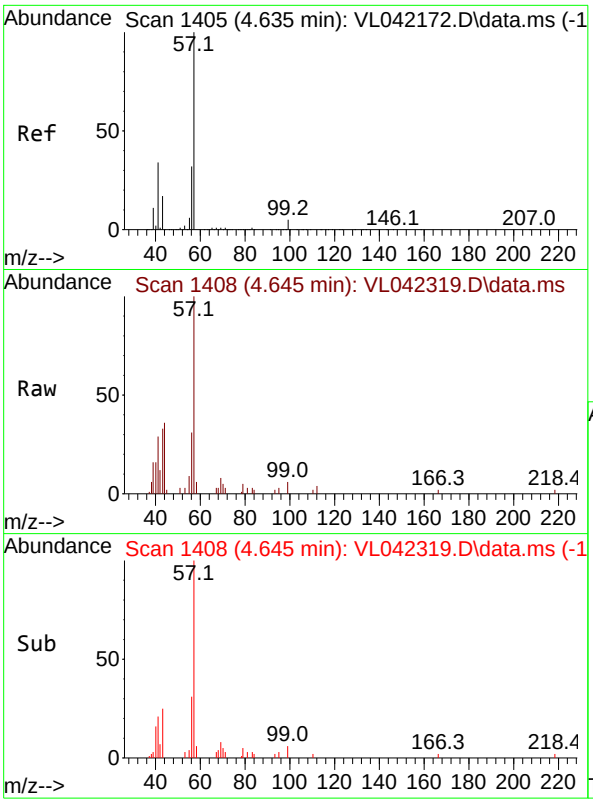



#36
Benzene
Concen: 0.468 ppbv
RT: 3.655 min Scan# 1102
Delta R.T. 0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion: 78 Resp: 21386

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 21.9 | 19.1 | 28.7 |
| 50 | 15.6 | 16.6 | 24.8# |

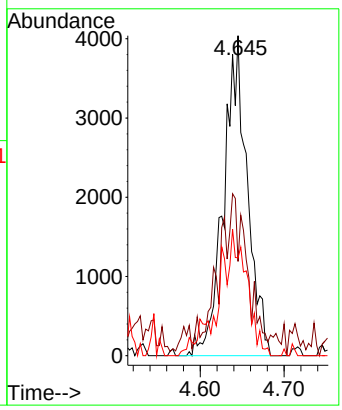





#44
2,2,4-Trimethylpentane
Concen: 0.102 ppbv m
RT: 4.645 min Scan# 14
Delta R.T. 0.010 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion: 57 Resp: 790

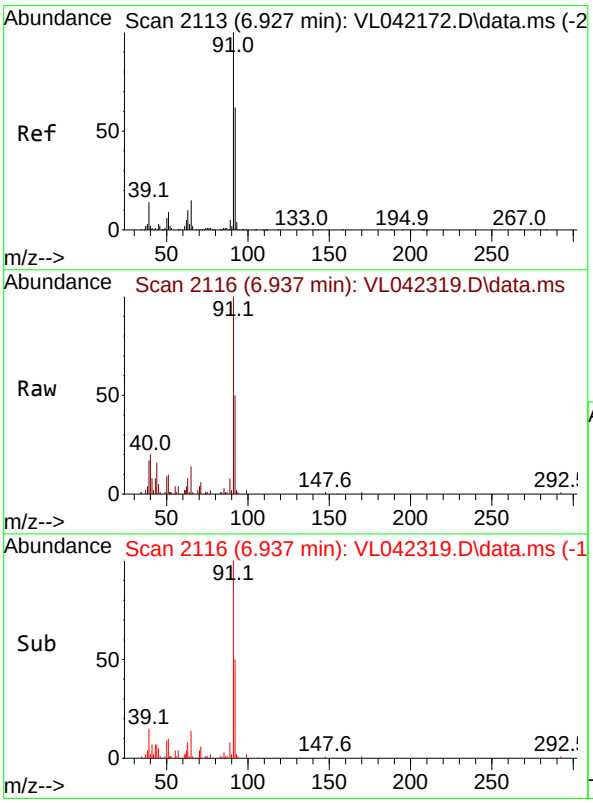
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 62.5 | 26.8 | 40.2# |
| 56 | 47.2 | 25.6 | 38.4# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025

**Manual Integrations**
**APPROVED**

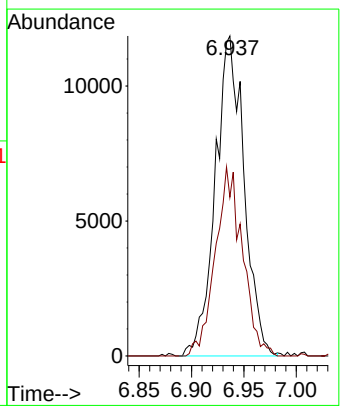
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

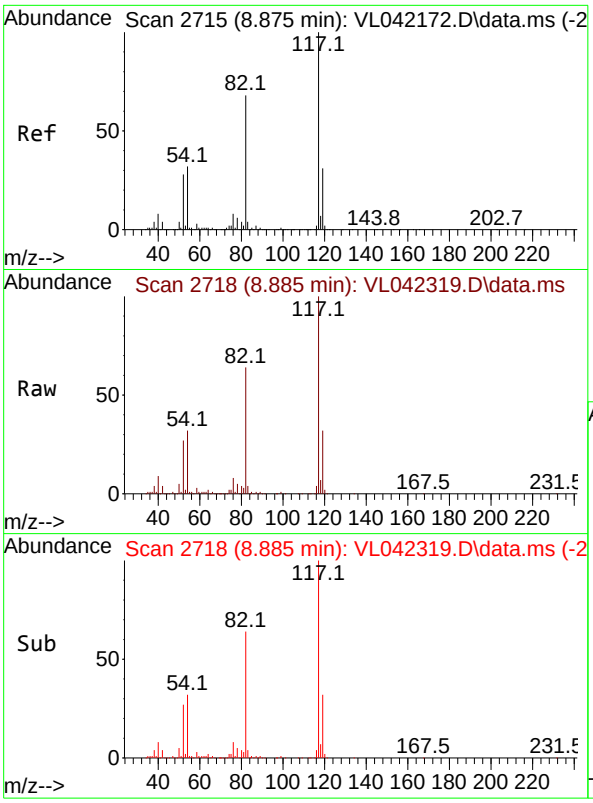



#53
Toluene
Concen: 0.418 ppbv m
RT: 6.937 min Scan# 2116
Delta R.T. 0.010 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion: 91 Resp: 22633

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 0.0 | 48.4 | 72.6# |

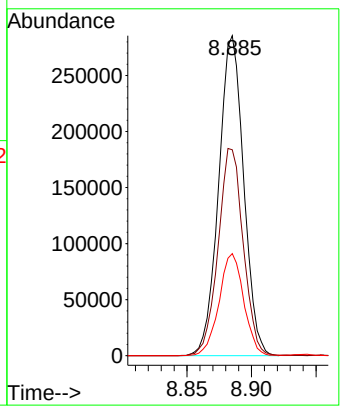





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion:117 Resp: 38394

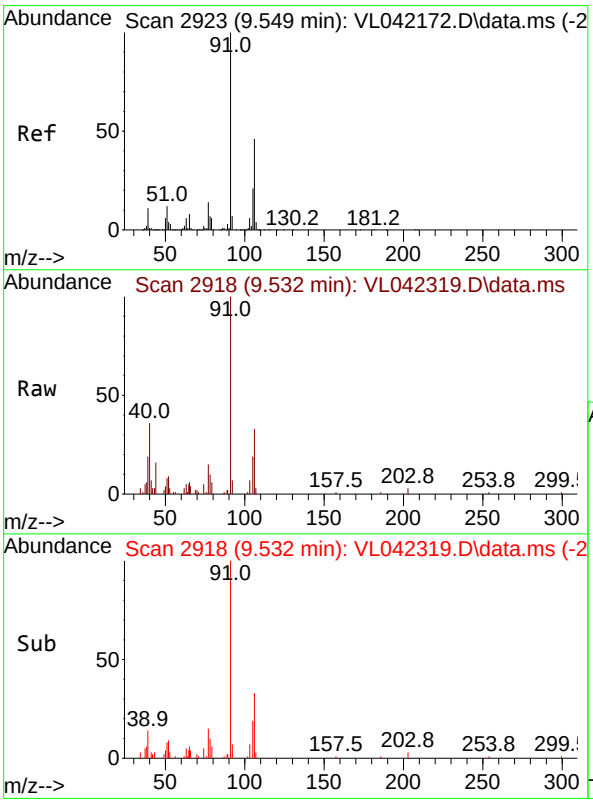
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 65.1 | 55.8 | 83.6 |
| 119 | 31.7 | 25.5 | 38.3 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025

**Manual Integrations**
**APPROVED**

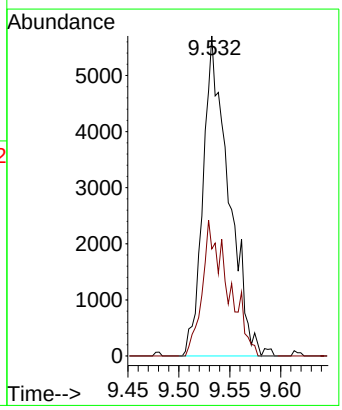
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

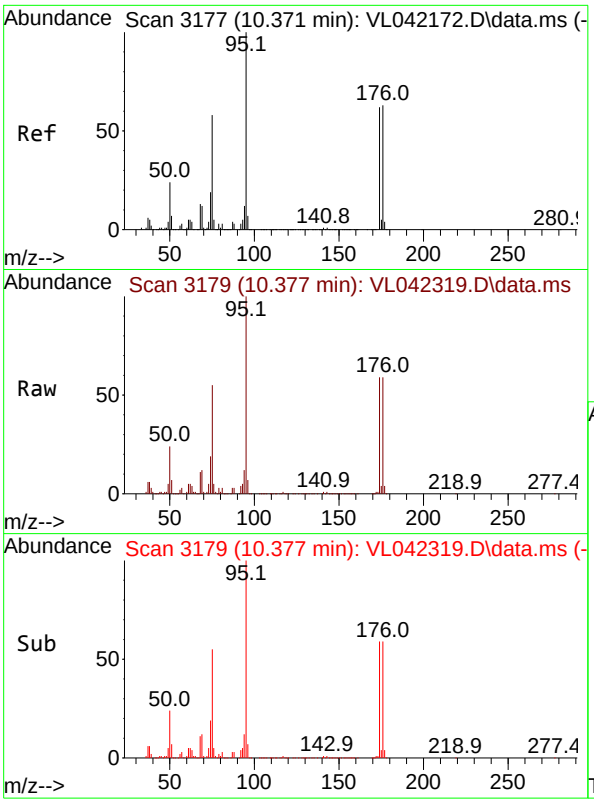



#59
m/p-Xylene
Concen: 0.184 ppbv m
RT: 9.532 min Scan# 2918
Delta R.T. -0.016 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion: 91 Resp: 10027

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 0.0 | 36.4 | 54.6# |

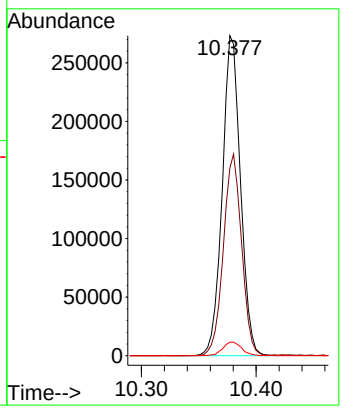





#68
1-Bromo-4-Fluorobenzene
Concen: 9.573 ppbv
RT: 10.377 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion: 95 Resp: 30182

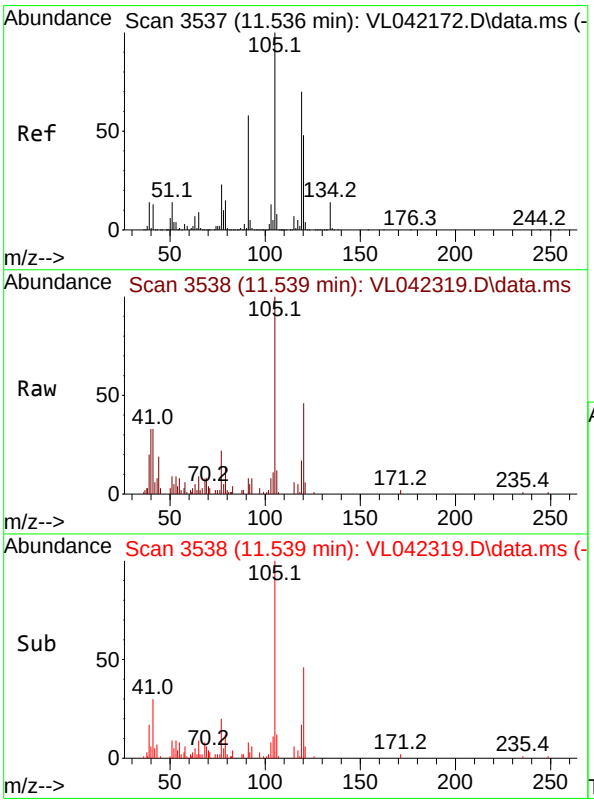
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 63.1 | 50.6 | 76.0 |
| 175 | 4.4 | 3.8 | 5.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025

**Manual Integrations**
**APPROVED**

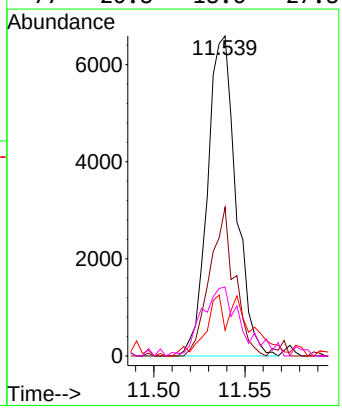
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025




#74
1,2,4-Trimethylbenzene
Concen: 0.105 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion:105 Resp: 7147

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.5 | 38.6 | 58.0 |
| 91 | 6.7 | 46.2 | 69.2# |
| 77 | 20.8 | 18.6 | 27.8 |



LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042319.D
Acq On : 11 Apr 2025 14:27
Operator : SY/MD
Sample : Q1665-10
Misc : 400mL/MSVOA_L
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

Signal : TIC: VL042319.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.431 | 410 | 415 | 420 | rBV | 4461856 | 5036438 | 15.29% | 6.311% |
| 2 | 1.486 | 427 | 432 | 436 | rBV2 | 11872708 | 8270577 | 25.11% | 10.364% |
| 3 | 1.561 | 450 | 455 | 459 | rBV | 769173 | 428453 | 1.30% | 0.537% |
| 4 | 1.722 | 500 | 505 | 517 | rBV | 3136769 | 2001187 | 6.08% | 2.508% |
| 5 | 1.836 | 535 | 540 | 547 | rBV | 4778992 | 3716760 | 11.28% | 4.657% |
| 6 | 1.891 | 551 | 557 | 569 | rVB | 8516802 | 7444641 | 22.60% | 9.329% |
| 7 | 2.564 | 756 | 765 | 779 | rBV | 9828517 | 13918858 | 42.26% | 17.441% |
| 8 | 2.790 | 826 | 835 | 841 | rBV | 681158 | 715232 | 2.17% | 0.896% |
| 9 | 2.826 | 841 | 846 | 861 | rVB2 | 301318 | 411098 | 1.25% | 0.515% |
| 10 | 3.962 | 1181 | 1197 | 1218 | rBV | 804813 | 1249606 | 3.79% | 1.566% |
| 11 | 8.885 | 2705 | 2718 | 2728 | rBV | 985107 | 1356122 | 4.12% | 1.699% |
| 12 | 10.377 | 3165 | 3179 | 3192 | rBV | 1273943 | 1448388 | 4.40% | 1.815% |
| 13 | 12.044 | 3680 | 3694 | 3704 | rBV | 839703 | 866648 | 2.63% | 1.086% |
| 14 | 13.400 | 4099 | 4113 | 4128 | rBV2 | 19852849 | 32939482 | 100.00% | 41.276% |

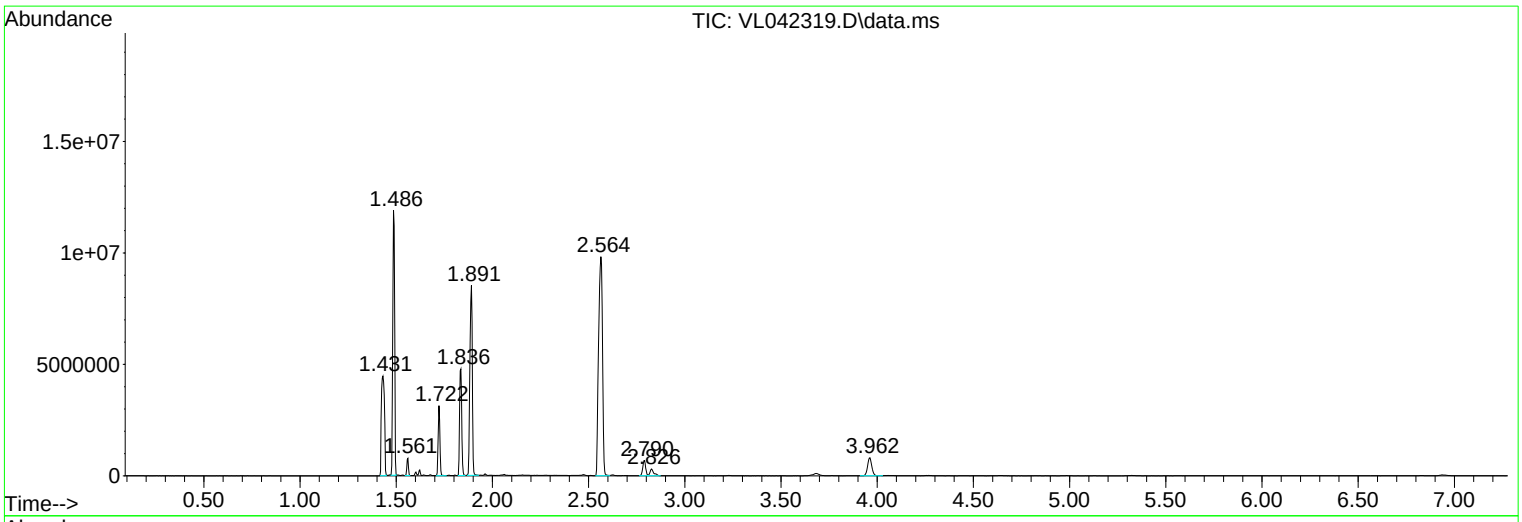
Sum of corrected areas: 79803490

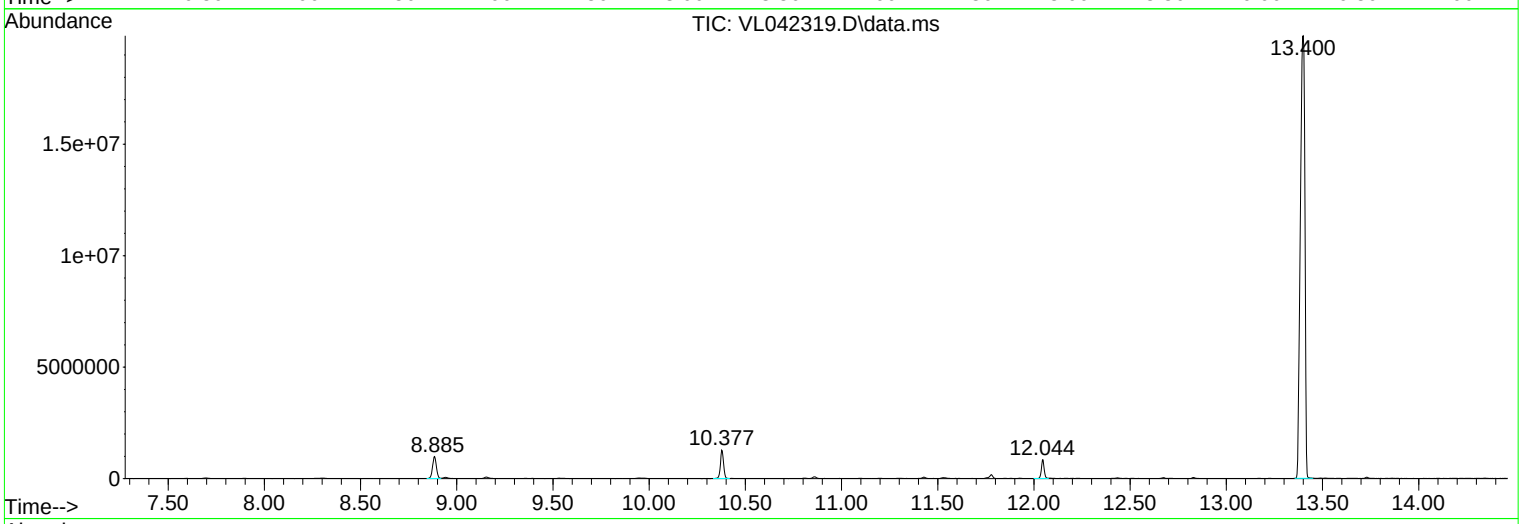
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042319.D
Acq On : 11 Apr 2025 14:27
Operator : SY/MD
Sample : Q1665-10
Misc : 400mL/MSVOA_L
ALS Vial : 2 Sample Multiplier: 1

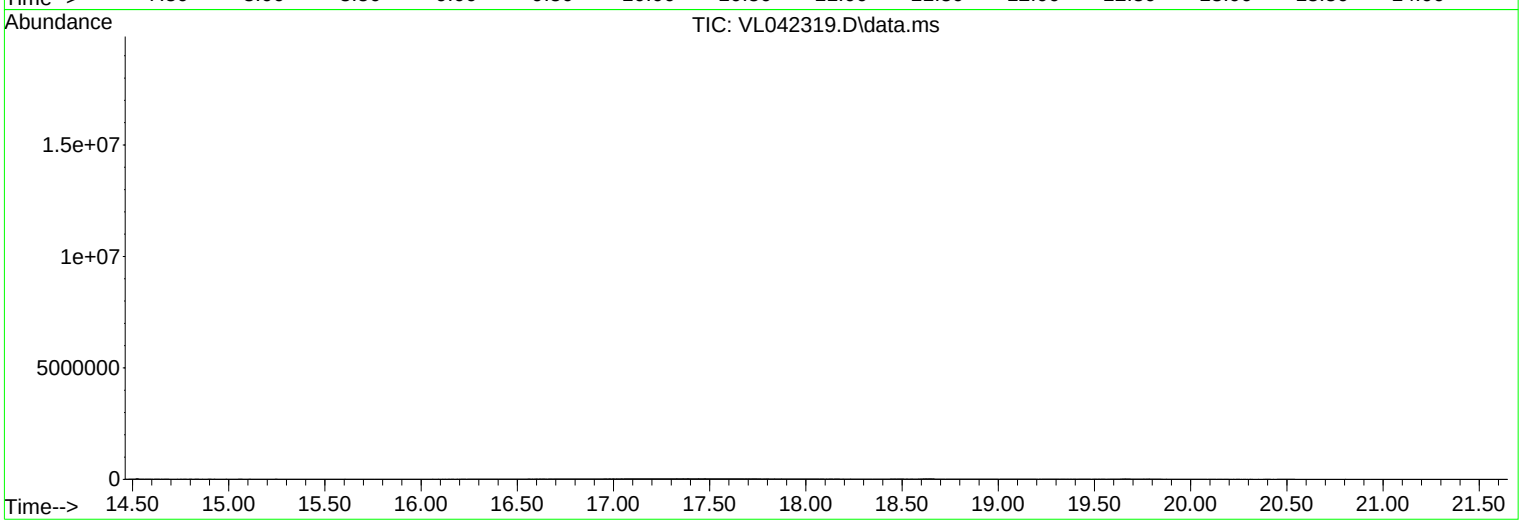
**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042319.D
Acq On : 11 Apr 2025 14:27
Operator : SY/MD
Sample : Q1665-10
Misc : 400mL/MSVOA_L
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

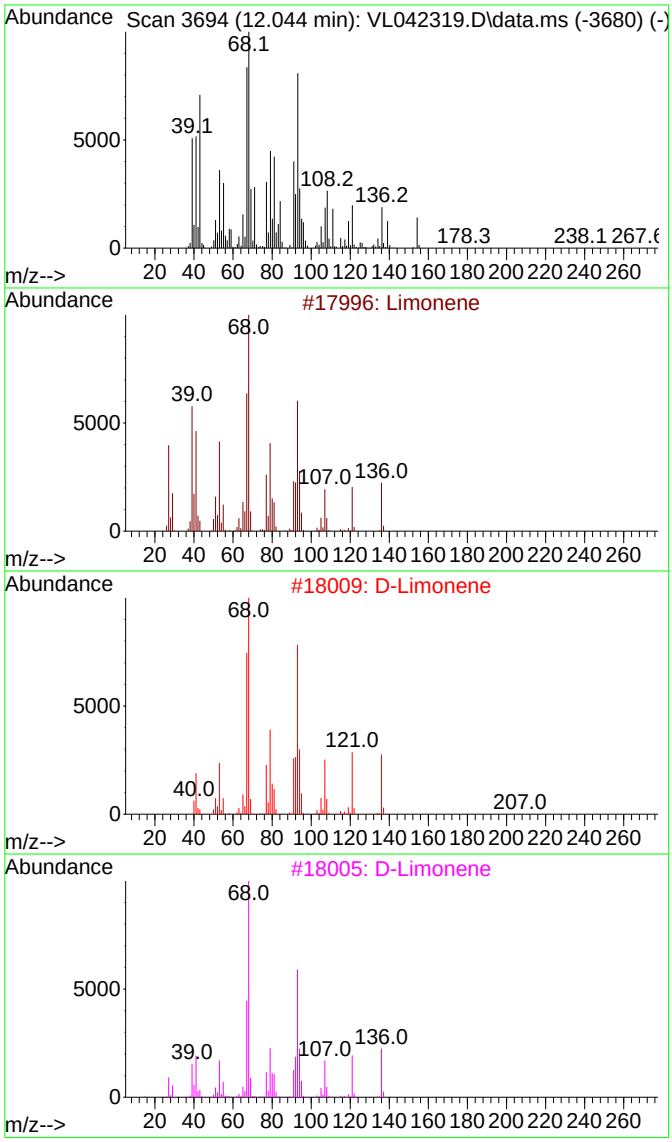
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

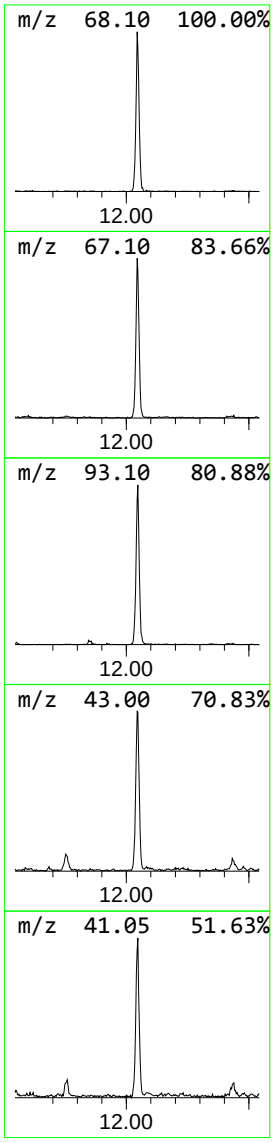
**********

Peak Number 1 Limonene Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.044 | 6.39 ppbv | 866648 | Chlorobenzene-d5 | 8.885 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Limonene | 136 | C10H16 | 000138-86-3 | 91 |
| 2 | D-Limonene | 136 | C10H16 | 005989-27-5 | 91 |
| 3 | D-Limonene | 136 | C10H16 | 005989-27-5 | 70 |
| 4 | D-Limonene | 136 | C10H16 | 005989-27-5 | 70 |
| 5 | D-Limonene | 136 | C10H16 | 005989-27-5 | 70 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042319.D
Acq On : 11 Apr 2025 14:27
Operator : SY/MD
Sample : Q1665-10
Misc : 400mL/MSVOA_L
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | --Internal Standard--- | | |
|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Limonene | 12.044 | 6.4 | ppbv | 866648 | 3 | 8.885 | 1356120 | 10.0 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B10-4-3242025DL | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-10DL | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042323.D | 40 | | 04/11/25 16:39 | VL041125 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 8.40 | 41.5 | UD | 41.5 | 98.9 | ug/m3 |
| 64-17-5 | Ethanol | 1100 | 2070 | EDQ | 24.1 | 37.7 | ug/m3 |
| 74-87-3 | Chloromethane | 3.90 | 8.05 | UD | 8.05 | 41.3 | ug/m3 |
| 75-01-4 | Vinyl Chloride | 0.56 | 1.43 | UD | 1.43 | 3.07 | ug/m3 |
| 74-83-9 | Bromomethane | 5.60 | 21.7 | UD | 21.7 | 77.7 | ug/m3 |
| 75-00-3 | Chloroethane | 6.80 | 17.9 | UD | 17.9 | 52.8 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | 5.20 | 15.3 | UD | 15.3 | 59.0 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | 6.40 | 36.0 | UD | 36.0 | 112 | ug/m3 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 6.40 | 49.0 | UD | 49.0 | 153 | ug/m3 |
| 76-14-2 | Dichlorotetrafluoroethane | 3.50 | 24.5 | UD | 24.5 | 140 | ug/m3 |
| 593-60-2 | Bromoethene | 4.80 | 21.0 | UD | 21.0 | 87.4 | ug/m3 |
| 75-65-0 | tert-Butyl alcohol | 7.60 | 23.0 | UD | 23.0 | 60.6 | ug/m3 |
| 142-82-5 | Heptane | 4.40 | 18.0 | UD | 18.0 | 82.0 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | 610 | 1500 | ED | 6.88 | 49.2 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethene | 5.60 | 22.2 | UD | 22.2 | 79.3 | ug/m3 |
| 67-64-1 | Acetone | 140 | 333 | D | 22.8 | 47.5 | ug/m3 |
| 75-15-0 | Carbon Disulfide | 6.40 | 19.9 | UD | 19.9 | 62.3 | ug/m3 |
| 1634-04-4 | Methyl tert-Butyl Ether | 4.80 | 17.3 | UD | 17.3 | 72.1 | ug/m3 |
| 75-09-2 | Methylene Chloride | 7.60 | 26.4 | UD | 26.4 | 69.5 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethene | 7.60 | 30.1 | UD | 30.1 | 79.3 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | 5.20 | 21.1 | UD | 21.1 | 81.0 | ug/m3 |
| 110-82-7 | Cyclohexane | 8.80 | 30.3 | UD | 30.3 | 68.8 | ug/m3 |
| 78-93-3 | 2-Butanone | 700 | 2060 | ED | 14.2 | 59.0 | ug/m3 |
| 56-23-5 | Carbon Tetrachloride | 0.44 | 2.77 | UD | 2.77 | 7.55 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethene | 3.60 | 14.3 | UD | 14.3 | 79.3 | ug/m3 |
| 67-66-3 | Chloroform | 3.30 | 16.1 | UD | 16.1 | 97.7 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.38 | 2.07 | UD | 2.07 | 6.55 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | 4.00 | 18.7 | UD | 18.7 | 93.4 | ug/m3 |
| 71-43-2 | Benzene | 3.50 | 11.2 | UD | 11.2 | 63.9 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | 3.60 | 14.6 | UD | 14.6 | 81.0 | ug/m3 |
| 79-01-6 | Trichloroethene | 0.68 | 3.65 | UD | 3.65 | 6.45 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | 4.40 | 20.3 | UD | 20.3 | 92.4 | ug/m3 |
| 75-27-4 | Bromodichloromethane | 3.10 | 20.8 | UD | 20.8 | 134 | ug/m3 |
| 108-10-1 | 4-Methyl-2-Pentanone | 3.70 | 15.2 | UD | 15.2 | 82.0 | ug/m3 |
| 108-88-3 | Toluene | 4.40 | 16.6 | UD | 16.6 | 75.4 | ug/m3 |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B10-4-3242025DL | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-10DL | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042323.D | 40 | | 04/11/25 16:39 | VL041125 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 2.40 | 10.9 | UD | 10.9 | 90.8 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | 2.60 | 11.8 | UD | 11.8 | 90.8 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | 2.80 | 15.3 | UD | 15.3 | 109 | ug/m3 |
| 124-48-1 | Dibromochloromethane | 2.60 | 22.1 | UD | 22.1 | 170 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane | 2.90 | 22.3 | UD | 22.3 | 30.7 | ug/m3 |
| 127-18-4 | Tetrachloroethene | 0.60 | 4.07 | UD | 4.07 | 8.14 | ug/m3 |
| 108-90-7 | Chlorobenzene | 3.00 | 13.8 | UD | 13.8 | 92.1 | ug/m3 |
| 100-41-4 | Ethyl Benzene | 4.80 | 20.9 | UD | 20.9 | 86.9 | ug/m3 |
| 179601-23-1 | m/p-Xylene | 8.40 | 36.5 | UD | 36.5 | 174 | ug/m3 |
| 95-47-6 | o-Xylene | 4.80 | 20.9 | UD | 20.9 | 86.9 | ug/m3 |
| 100-42-5 | Styrene | 4.40 | 18.7 | UD | 18.7 | 85.2 | ug/m3 |
| 75-25-2 | Bromoform | 2.30 | 23.8 | UD | 23.8 | 207 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.44 | 3.02 | UDQ | 3.02 | 8.24 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | 4.40 | 22.8 | UD | 22.8 | 104 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 4.40 | 21.6 | UD | 21.6 | 98.3 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 3.10 | 15.2 | UD | 15.2 | 98.3 | ug/m3 |
| 541-73-1 | 1,3-Dichlorobenzene | 3.20 | 19.2 | UD | 19.2 | 120 | ug/m3 |
| 106-46-7 | 1,4-Dichlorobenzene | 2.10 | 12.6 | UD | 12.6 | 120 | ug/m3 |
| 95-50-1 | 1,2-Dichlorobenzene | 3.00 | 18.0 | UDQ | 18.0 | 120 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 3.40 | 25.2 | UD | 25.2 | 148 | ug/m3 |
| 87-68-3 | Hexachloro-1,3-Butadiene | 3.40 | 36.3 | UD | 36.3 | 213 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | 5.20 | 11.5 | UD | 11.5 | 44.3 | ug/m3 |
| 91-20-3 | Naphthalene | 3.00 | 15.7 | UD | 15.7 | 21.0 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | 4.80 | 23.6 | UD | 23.6 | 98.3 | ug/m3 |
| 110-54-3 | Hexane | 4.40 | 15.5 | UD | 15.5 | 70.5 | ug/m3 |
| 107-05-1 | Allyl Chloride | 6.00 | 18.8 | UD | 18.8 | 62.6 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | 8.40 | 30.3 | UD | 30.3 | 72.1 | ug/m3 |
| 80-62-6 | Methyl Methacrylate | 3.40 | 13.9 | UD | 13.9 | 81.9 | ug/m3 |
| **SURROGATES** | | | | | | | |
| 460-00-4 | 1-Bromo-4-Fluorobenzene | 9.10 | | | 70 (65) - 130 (135) | 91% | SPK: 10 |
| **INTERNAL STANDARDS** | | | | | | | |
| 74-97-5 | Bromochloromethane | 173000 | | 2.787 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 401000 | | 3.962 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 338000 | | 8.885 | | | |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B10-4-3242025DL | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-10DL | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042323.D | 40 | | 04/11/25 16:39 | VL041125 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042323.D
Acq On : 11 Apr 2025 16:39
Operator : SY/MD
Sample : Q1665-10DL 40X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 11 23:02:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025DL

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 2.787 | 49 | 173105 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.962 | 114 | 400666 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.885 | 117 | 338211 | 10.000 | ppbv | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.380 | 95 | 253785 | 9.137 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 91.400% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 9) Propene | 1.489 | 41 | 65076m | 5.438 | ppbv | | |
| 13) Ethanol | 1.742 | 45 | 31113 | 27.501 | ppbv | | 85 |
| 15) Acetone | 1.842 | 43 | 84634 | 3.496 | ppbv | | 95 |
| 19) Isopropyl Alcohol | 1.900 | 45 | 207505 | 15.191 | ppbv | # | 34 |
| 34) 2-Butanone | 2.564 | 43 | 510012 | 17.554 | ppbv | | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042323.D
Acq On : 11 Apr 2025 16:39
Operator : SY/MD
Sample : Q1665-10DL 40X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 11 23:02:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025DL

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/16/2025
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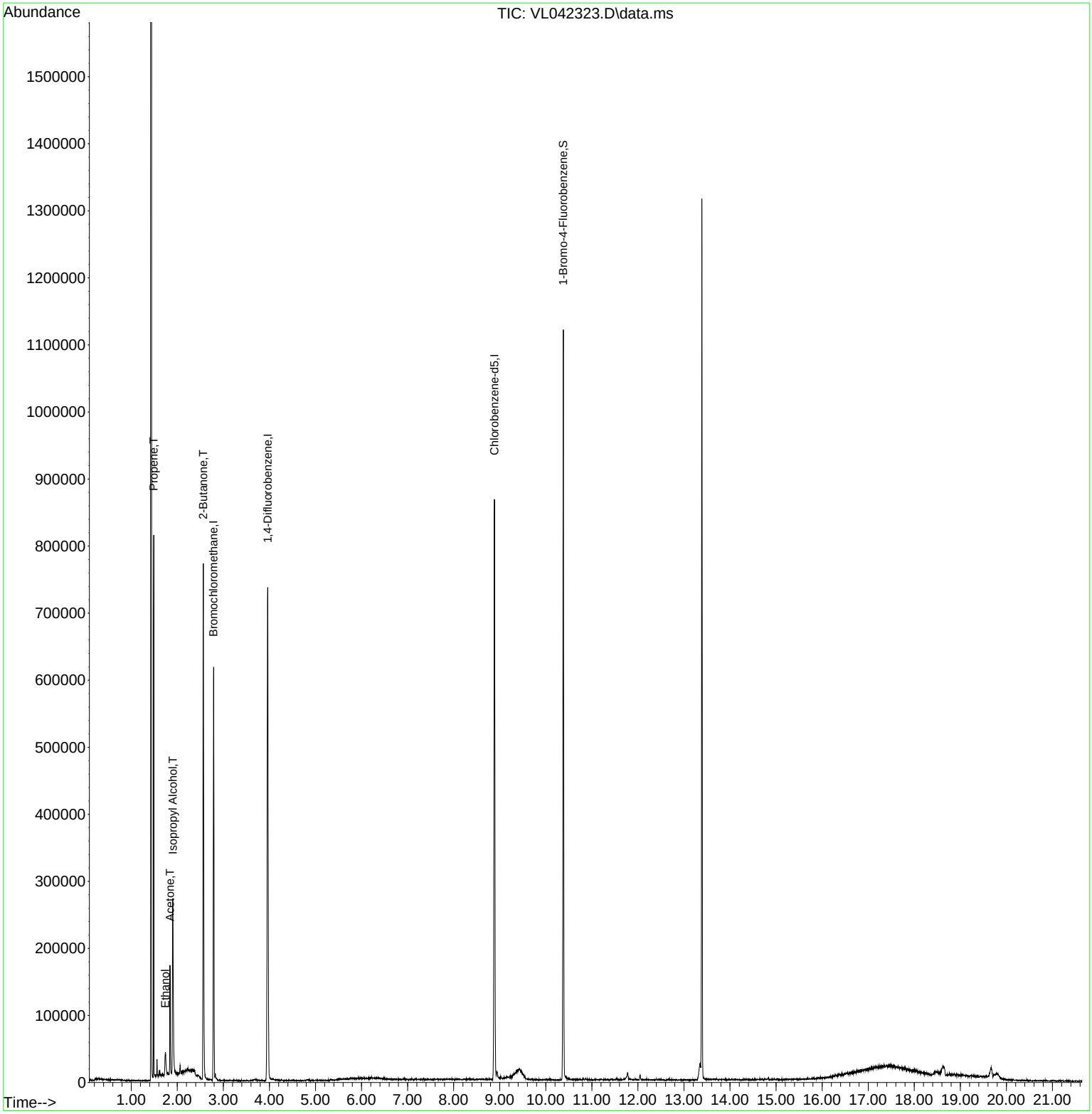
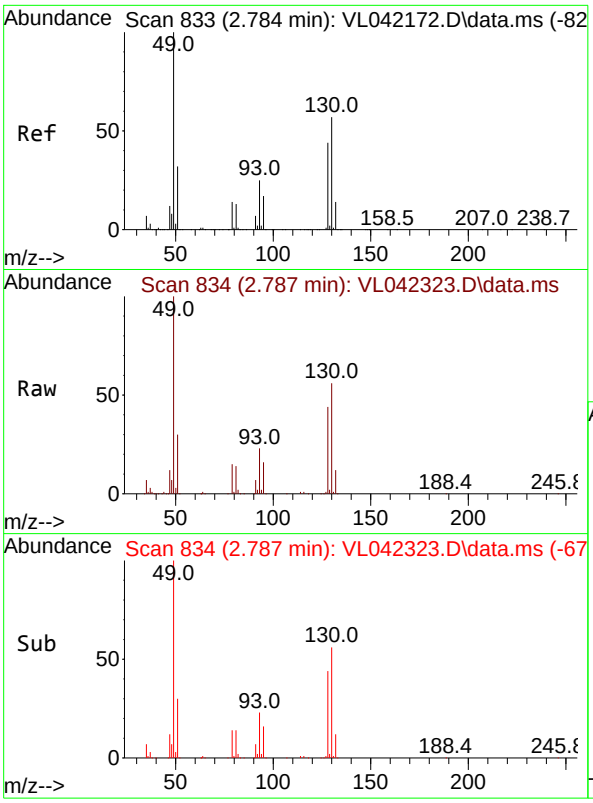
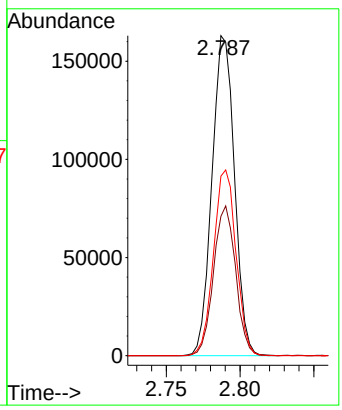





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

Tgt Ion: 49 Resp: 17310

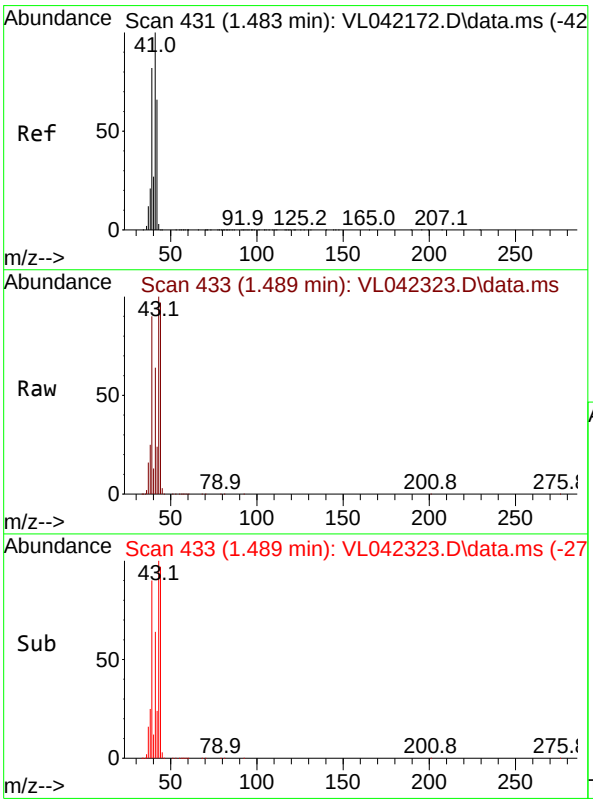
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 46.0 | 22.9 | 68.5 |
| 130 | 58.2 | 28.8 | 86.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025DL

**Manual Integrations**
**APPROVED**

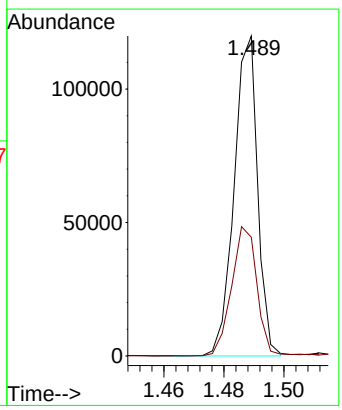
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

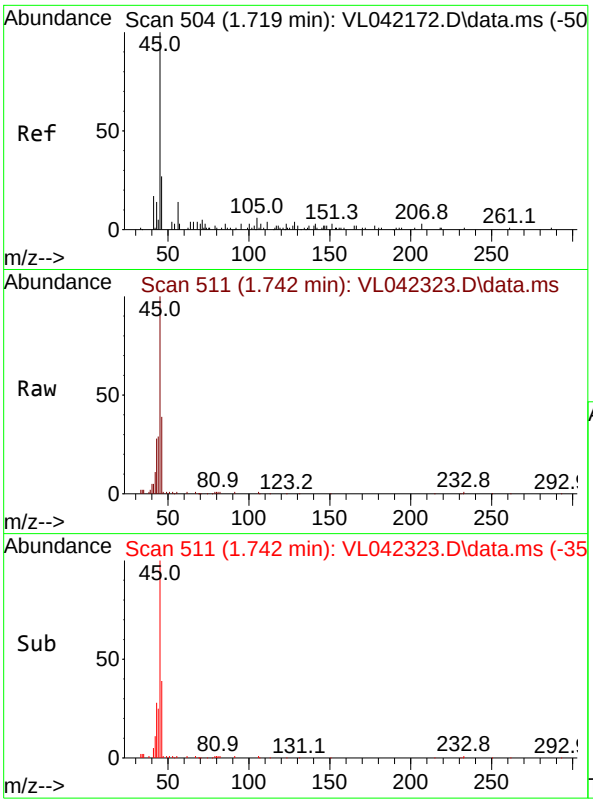



#9
Propene
Concen: 5.438 ppbv m
RT: 1.489 min Scan# 433
Delta R.T. 0.006 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

Tgt Ion: 41 Resp: 65076

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 21.2 | 55.4 | 83.2# |

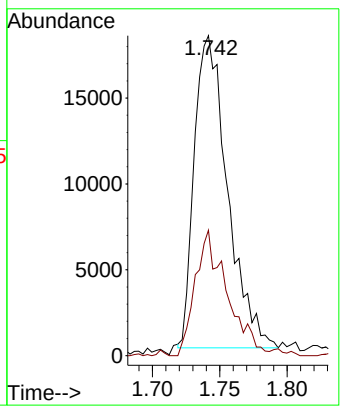





#13
Ethanol
Concen: 27.501 ppbv
RT: 1.742 min Scan# 5
Delta R.T. 0.022 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

Tgt Ion: 45 Resp: 3111

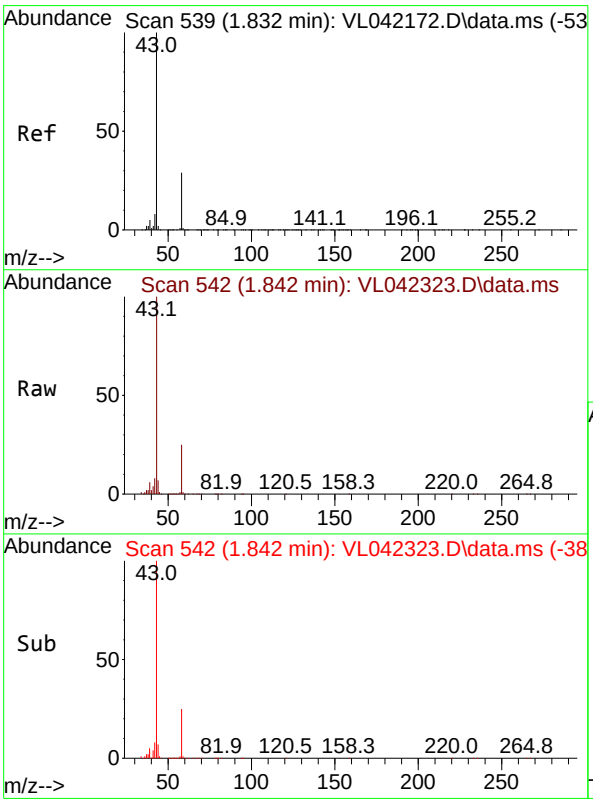
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 40.0 | 20.2 | 80.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025DL

**Manual Integrations**
**APPROVED**

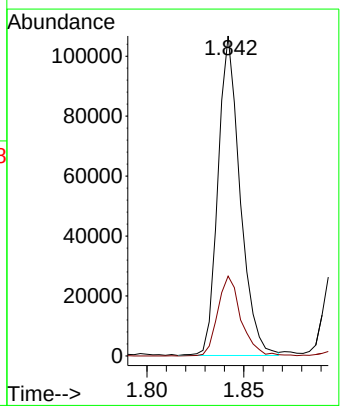
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

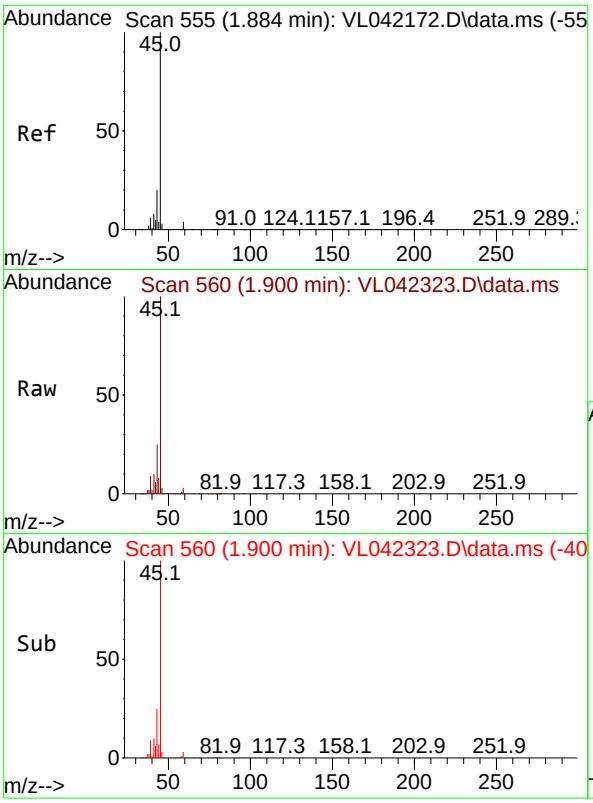



#15
Acetone
Concen: 3.496 ppbv
RT: 1.842 min Scan# 542
Delta R.T. 0.010 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

Tgt Ion: 43 Resp: 84634

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 26.3 | 23.2 | 34.8 |






#19
Isopropyl Alcohol
Concen: 15.191 ppbv
RT: 1.900 min Scan# 5
Delta R.T. 0.016 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

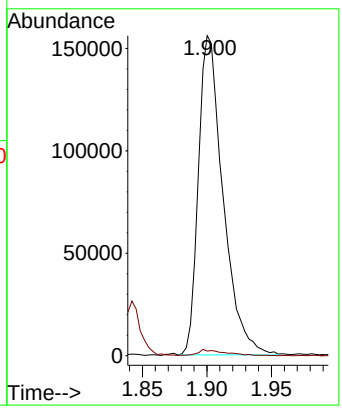
Tgt Ion: 45 Resp: 20750

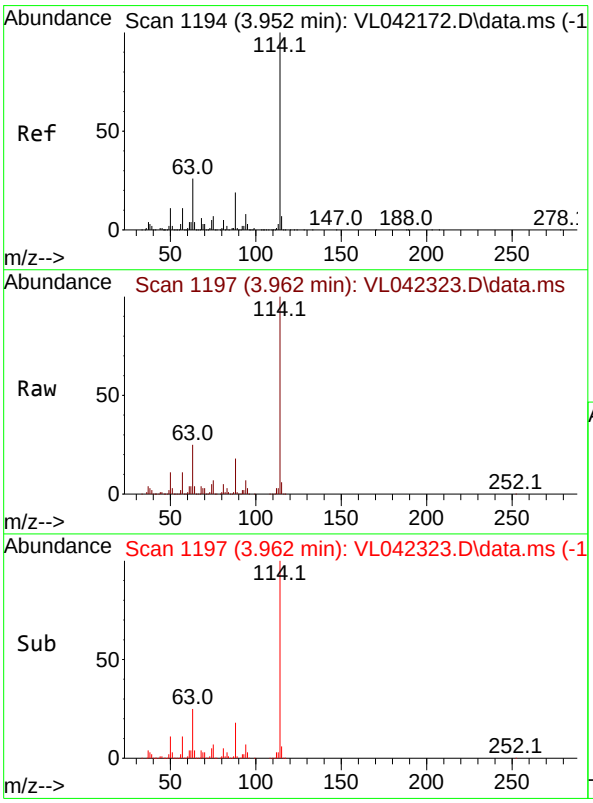
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 2.1 | 36.9 | 55.3# |

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025DL

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

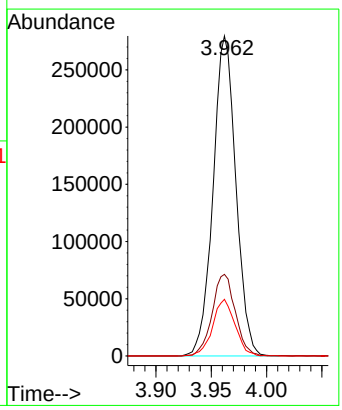


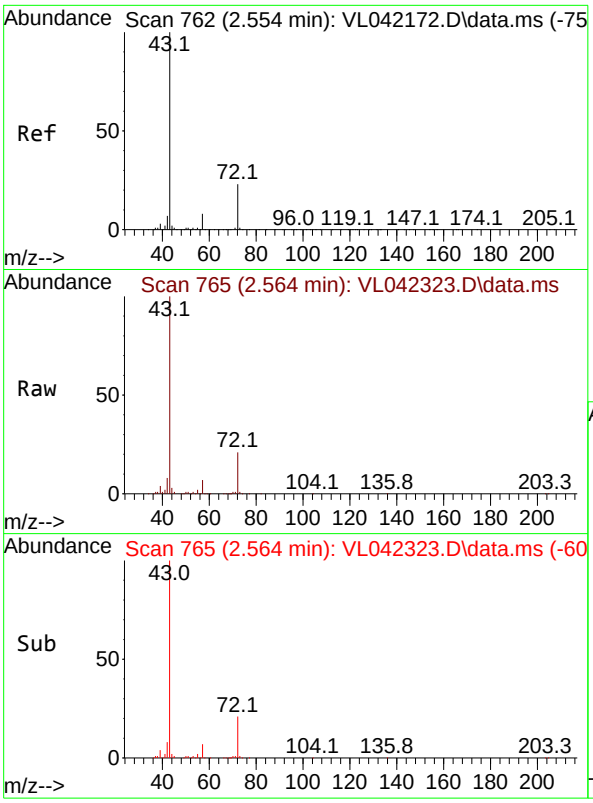




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.010 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

Tgt Ion:114 Resp: 400666

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.9 | 20.7 | 31.1 |
| 88 | 17.4 | 15.0 | 22.4 |

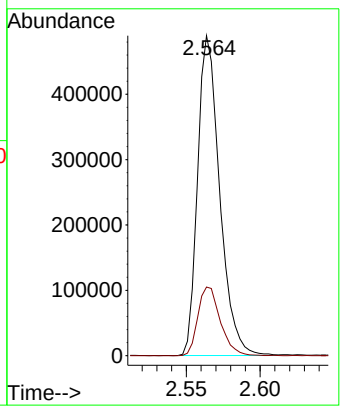





#34
2-Butanone
Concen: 17.554 ppbv
RT: 2.564 min Scan# 7
Delta R.T. 0.010 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

Tgt Ion: 43 Resp: 51001

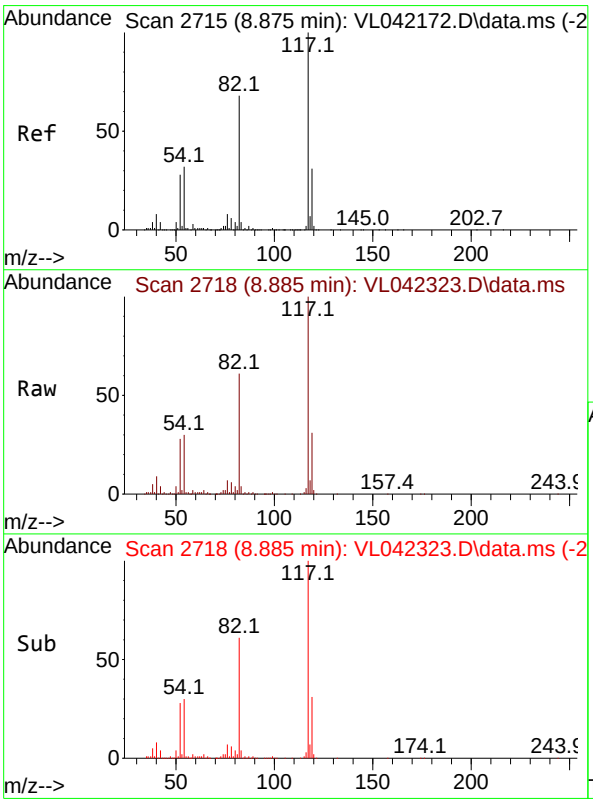
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 21.9 | 18.2 | 27.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025DL

**Manual Integrations**
**APPROVED**

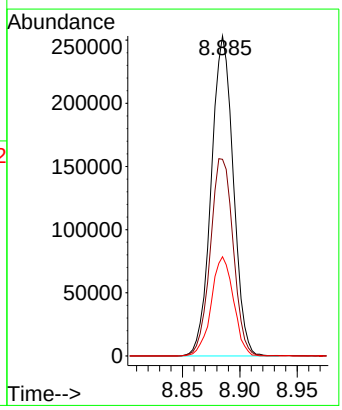
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

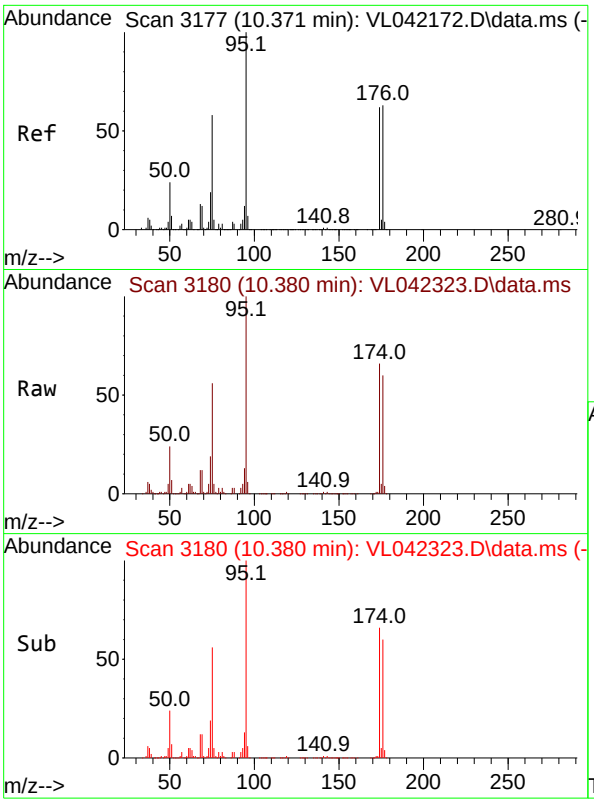



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.010 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

Tgt Ion:117 Resp: 338211

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 64.2 | 55.8 | 83.6 |
| 119 | 31.4 | 25.5 | 38.3 |

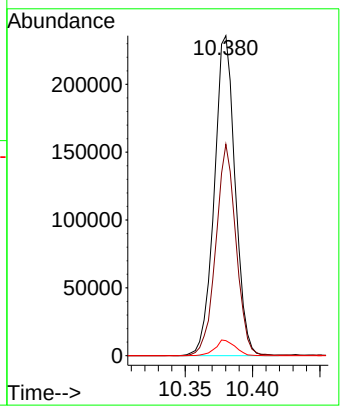





#68
1-Bromo-4-Fluorobenzene
Concen: 9.137 ppbv
RT: 10.380 min Scan# 3
Delta R.T. 0.010 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

Tgt Ion: 95 Resp: 25378

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 64.4 | 50.6 | 76.0 |
| 175 | 4.7 | 3.8 | 5.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025DL

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B10-4-3242025DL2 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-10DL2 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042332.D | 100 | | 04/15/25 15:01 | VL041525 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 21.0 | 104 | UD | 104 | 247 | ug/m3 |
| 64-17-5 | Ethanol | 790 | 1490 | DQ | 60.3 | 94.2 | ug/m3 |
| 74-87-3 | Chloromethane | 9.80 | 20.2 | UD | 20.2 | 103 | ug/m3 |
| 75-01-4 | Vinyl Chloride | 1.40 | 3.58 | UD | 3.58 | 7.67 | ug/m3 |
| 74-83-9 | Bromomethane | 14.0 | 54.4 | UD | 54.4 | 194 | ug/m3 |
| 75-00-3 | Chloroethane | 17.0 | 44.9 | UD | 44.9 | 132 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | 13.0 | 38.3 | UD | 38.3 | 147 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | 16.0 | 89.9 | UD | 89.9 | 281 | ug/m3 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 16.0 | 123 | UD | 123 | 383 | ug/m3 |
| 76-14-2 | Dichlorotetrafluoroethane | 8.80 | 61.5 | UD | 61.5 | 349 | ug/m3 |
| 593-60-2 | Bromoethene | 12.0 | 52.5 | UD | 52.5 | 219 | ug/m3 |
| 75-65-0 | tert-Butyl alcohol | 19.0 | 57.6 | UDQ | 57.6 | 152 | ug/m3 |
| 142-82-5 | Heptane | 11.0 | 45.1 | UD | 45.1 | 205 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | 430 | 1060 | D | 17.0 | 123 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethene | 14.0 | 55.5 | UD | 55.5 | 198 | ug/m3 |
| 67-64-1 | Acetone | 120 | 285 | D | 57.0 | 119 | ug/m3 |
| 75-15-0 | Carbon Disulfide | 16.0 | 49.8 | UD | 49.8 | 156 | ug/m3 |
| 1634-04-4 | Methyl tert-Butyl Ether | 12.0 | 43.3 | UD | 43.3 | 180 | ug/m3 |
| 75-09-2 | Methylene Chloride | 19.0 | 66.0 | UDQ | 66.0 | 174 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethene | 19.0 | 75.3 | UD | 75.3 | 198 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | 13.0 | 52.6 | UD | 52.6 | 202 | ug/m3 |
| 110-82-7 | Cyclohexane | 22.0 | 75.7 | UD | 75.7 | 172 | ug/m3 |
| 78-93-3 | 2-Butanone | 480 | 1420 | D | 35.4 | 147 | ug/m3 |
| 56-23-5 | Carbon Tetrachloride | 1.10 | 6.92 | UD | 6.92 | 18.9 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethene | 8.90 | 35.3 | UD | 35.3 | 198 | ug/m3 |
| 67-66-3 | Chloroform | 8.30 | 40.5 | UD | 40.5 | 244 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.95 | 5.18 | UD | 5.18 | 16.4 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | 10.0 | 46.7 | UD | 46.7 | 234 | ug/m3 |
| 71-43-2 | Benzene | 8.70 | 27.8 | UD | 27.8 | 160 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | 9.10 | 36.8 | UD | 36.8 | 202 | ug/m3 |
| 79-01-6 | Trichloroethene | 1.70 | 9.14 | UD | 9.14 | 16.1 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | 11.0 | 50.8 | UD | 50.8 | 231 | ug/m3 |
| 75-27-4 | Bromodichloromethane | 7.70 | 51.6 | UD | 51.6 | 335 | ug/m3 |
| 108-10-1 | 4-Methyl-2-Pentanone | 9.30 | 38.1 | UD | 38.1 | 205 | ug/m3 |
| 108-88-3 | Toluene | 11.0 | 41.5 | UD | 41.5 | 188 | ug/m3 |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B10-4-3242025DL2 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-10DL2 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042332.D | 100 | | 04/15/25 15:01 | VL041525 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 6.00 | 27.2 | UD | 27.2 | 227 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | 6.40 | 29.1 | UD | 29.1 | 227 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | 7.10 | 38.7 | UD | 38.7 | 273 | ug/m3 |
| 124-48-1 | Dibromochloromethane | 6.60 | 56.2 | UD | 56.2 | 426 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane | 7.20 | 55.3 | UD | 55.3 | 76.8 | ug/m3 |
| 127-18-4 | Tetrachloroethene | 1.50 | 10.2 | UD | 10.2 | 20.3 | ug/m3 |
| 108-90-7 | Chlorobenzene | 7.60 | 35.0 | UD | 35.0 | 230 | ug/m3 |
| 100-41-4 | Ethyl Benzene | 12.0 | 52.1 | UD | 52.1 | 217 | ug/m3 |
| 179601-23-1 | m/p-Xylene | 21.0 | 91.2 | UD | 91.2 | 434 | ug/m3 |
| 95-47-6 | o-Xylene | 12.0 | 52.1 | UD | 52.1 | 217 | ug/m3 |
| 100-42-5 | Styrene | 11.0 | 46.8 | UD | 46.8 | 213 | ug/m3 |
| 75-25-2 | Bromoform | 5.70 | 58.9 | UD | 58.9 | 517 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.10 | 7.55 | UD | 7.55 | 20.6 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | 11.0 | 57.0 | UD | 57.0 | 259 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 11.0 | 54.1 | UD | 54.1 | 246 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 7.80 | 38.4 | UD | 38.4 | 246 | ug/m3 |
| 541-73-1 | 1,3-Dichlorobenzene | 8.00 | 48.1 | UD | 48.1 | 301 | ug/m3 |
| 106-46-7 | 1,4-Dichlorobenzene | 5.30 | 31.9 | UD | 31.9 | 301 | ug/m3 |
| 95-50-1 | 1,2-Dichlorobenzene | 7.50 | 45.1 | UD | 45.1 | 301 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 8.50 | 63.1 | UD | 63.1 | 371 | ug/m3 |
| 87-68-3 | Hexachloro-1,3-Butadiene | 8.50 | 90.7 | UD | 90.7 | 533 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | 13.0 | 28.8 | UD | 28.8 | 111 | ug/m3 |
| 91-20-3 | Naphthalene | 7.50 | 39.3 | UD | 39.3 | 52.4 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | 12.0 | 59.0 | UD | 59.0 | 246 | ug/m3 |
| 110-54-3 | Hexane | 11.0 | 38.8 | UD | 38.8 | 176 | ug/m3 |
| 107-05-1 | Allyl Chloride | 15.0 | 47.0 | UD | 47.0 | 157 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | 21.0 | 75.7 | UD | 75.7 | 180 | ug/m3 |
| 80-62-6 | Methyl Methacrylate | 8.60 | 35.2 | UD | 35.2 | 205 | ug/m3 |
| **SURROGATES** | | | | | | | |
| 460-00-4 | 1-Bromo-4-Fluorobenzene | 9.30 | | | 70 (65) - 130 (135) | 93% | SPK: 10 |
| **INTERNAL STANDARDS** | | | | | | | |
| 74-97-5 | Bromochloromethane | 164000 | | 2.81 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 385000 | | 3.998 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 328000 | | 8.917 | | | |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B10-4-3242025DL2 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-10DL2 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042332.D | 100 | | 04/15/25 15:01 | VL041525 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
Data File : VL042332.D
Acq On : 15 Apr 2025 15:01
Operator : SY/MD
Sample : Q1665-10DL2 100X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 16 01:32:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025DL2

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 2.810 | 49 | 164444 | 10.000 | ppbv | | 0.03 |
| 33) 1,4-Difluorobenzene | 3.998 | 114 | 385228 | 10.000 | ppbv | | 0.05 |
| 55) Chlorobenzene-d5 | 8.917 | 117 | 327587 | 10.000 | ppbv | | 0.04 |
| System Monitoring Compounds | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.406 | 95 | 251001 | 9.330 | ppbv | | 0.04 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 93.300% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 9) Propene | 1.499 | 41 | 20713m | 1.822 | ppbv | | |
| 13) Ethanol | 1.732 | 45 | 8531 | 7.938 | ppbv | | 83 |
| 15) Acetone | 1.848 | 43 | 26934 | 1.171 | ppbv | | 95 |
| 19) Isopropyl Alcohol | 1.900 | 45 | 55262 | 4.259 | ppbv | # | 34 |
| 34) 2-Butanone | 2.580 | 43 | 135118 | 4.837 | ppbv | | 97 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
Data File : VL042332.D
Acq On : 15 Apr 2025 15:01
Operator : SY/MD
Sample : Q1665-10DL2 100X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 16 01:32:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025DL2

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/16/2025
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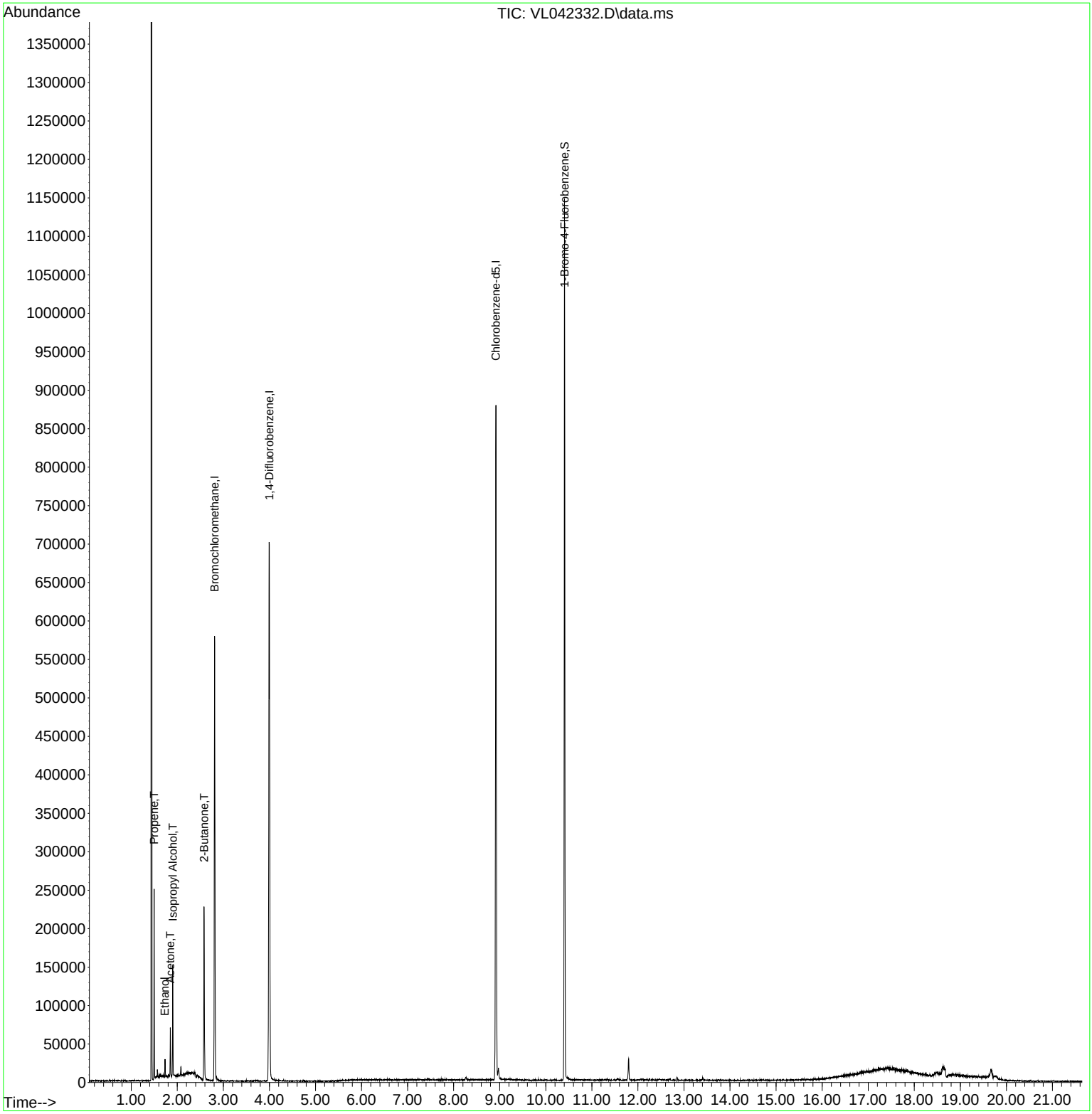
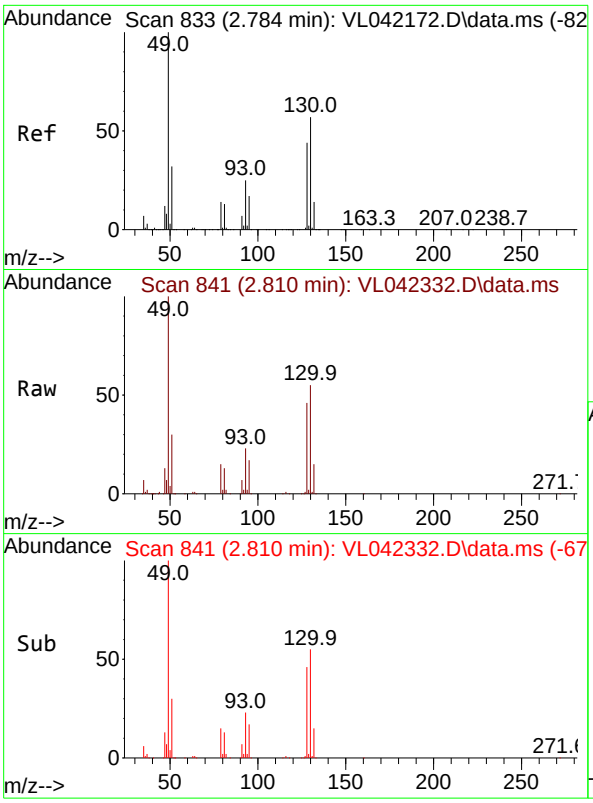
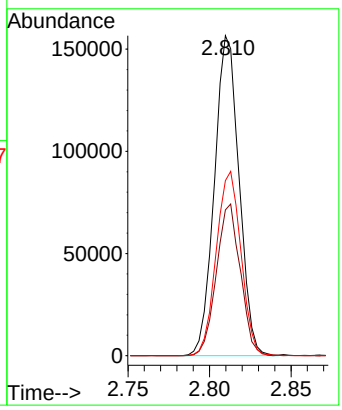





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.810 min Scan# 84
Delta R.T. 0.026 min
Lab File: VL042332.D
Acq: 15 Apr 2025 15:01

Tgt Ion: 49 Resp: 16444

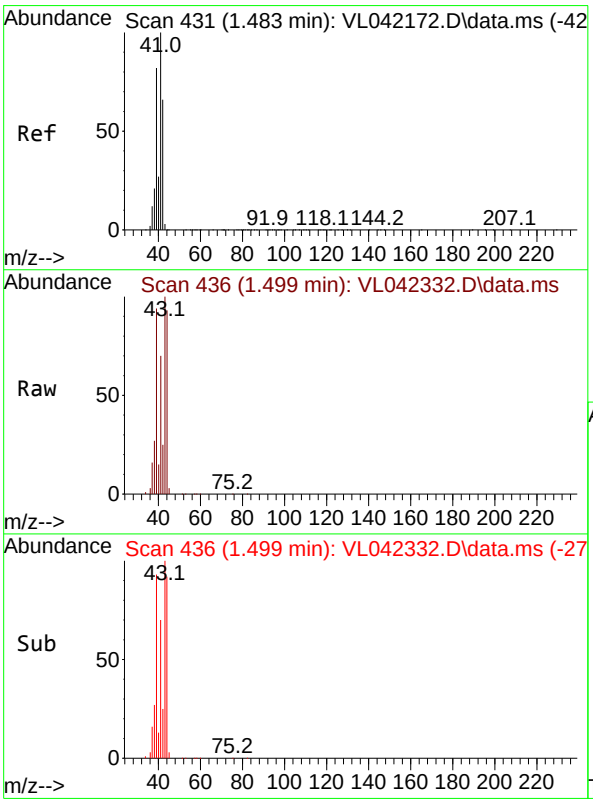
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 46.1 | 22.9 | 68.5 |
| 130 | 57.7 | 28.8 | 86.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025DL2

**Manual Integrations**
**APPROVED**

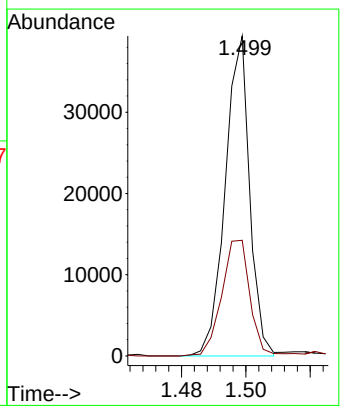
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

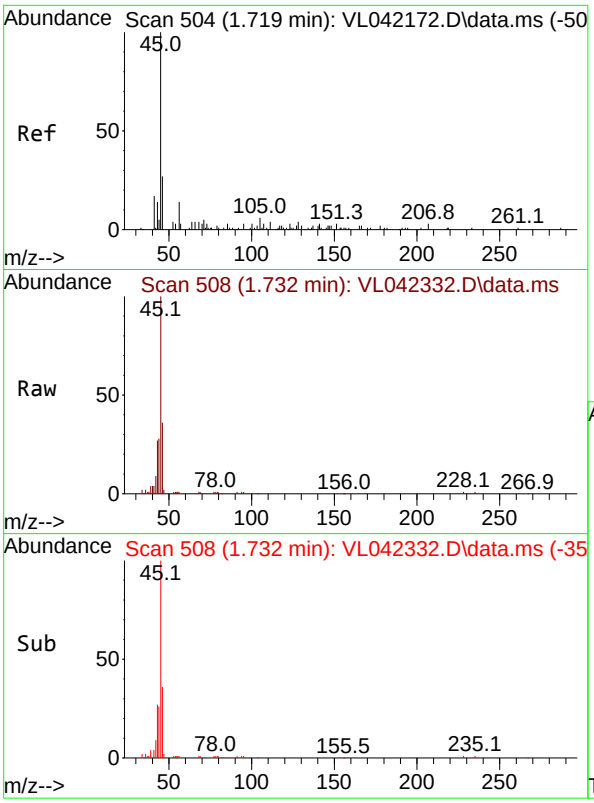



#9
Propene
Concen: 1.822 ppbv m
RT: 1.499 min Scan# 436
Delta R.T. 0.016 min
Lab File: VL042332.D
Acq: 15 Apr 2025 15:01

Tgt Ion: 41 Resp: 20713

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 19.5 | 55.4 | 83.2# |

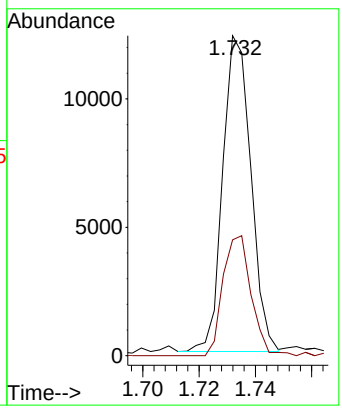





#13
Ethanol
Concen: 7.938 ppbv
RT: 1.732 min Scan# 5
Delta R.T. 0.013 min
Lab File: VL042332.D
Acq: 15 Apr 2025 15:01

Tgt Ion: 45 Resp: 853

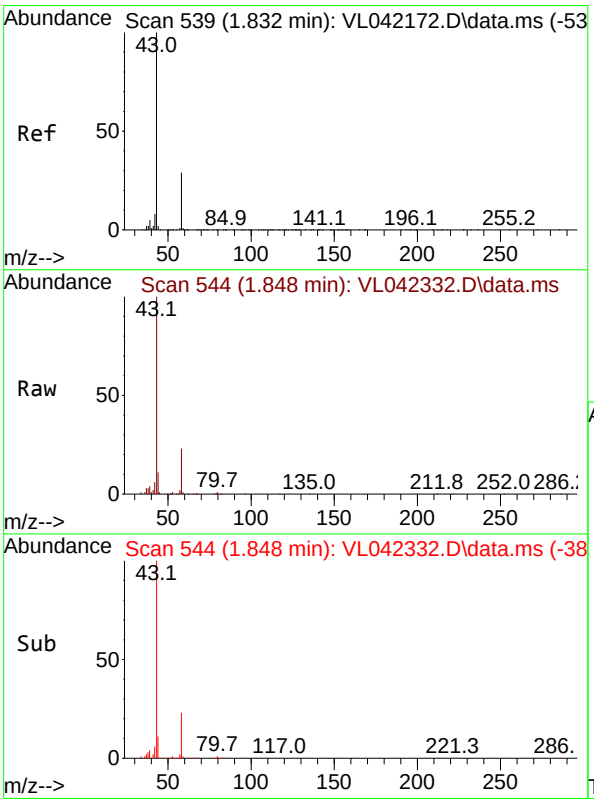
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 39.0 | 20.2 | 80.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025DL2

**Manual Integrations**
**APPROVED**

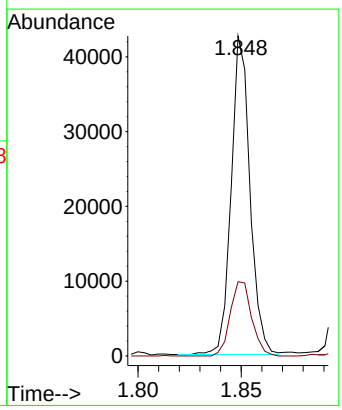
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

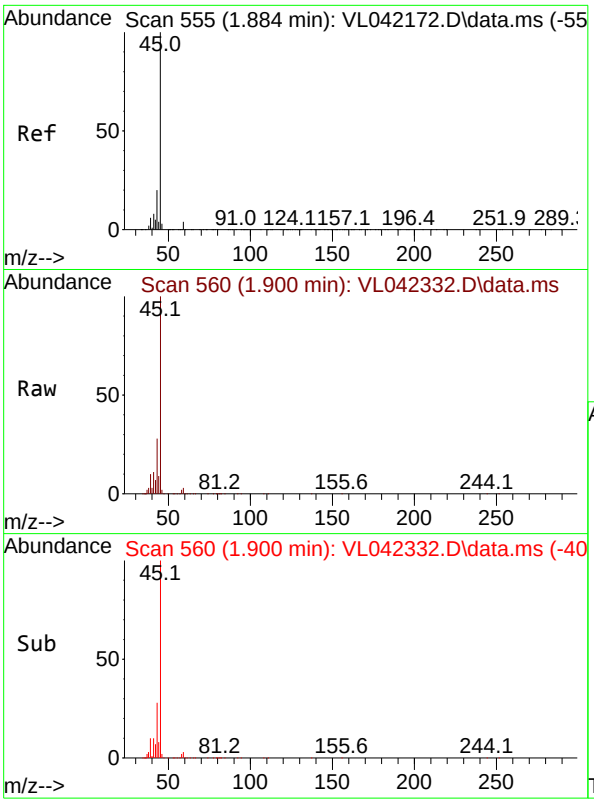



#15
Acetone
Concen: 1.171 ppbv
RT: 1.848 min Scan# 544
Delta R.T. 0.016 min
Lab File: VL042332.D
Acq: 15 Apr 2025 15:01

Tgt Ion: 43 Resp: 26934

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 26.6 | 23.2 | 34.8 |






#19
Isopropyl Alcohol
Concen: 4.259 ppbv
RT: 1.900 min Scan# 5
Delta R.T. 0.016 min
Lab File: VL042332.D
Acq: 15 Apr 2025 15:01

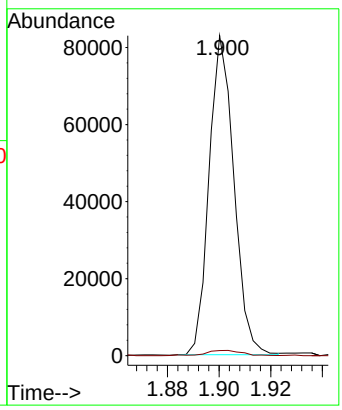
Tgt Ion: 45 Resp: 5526

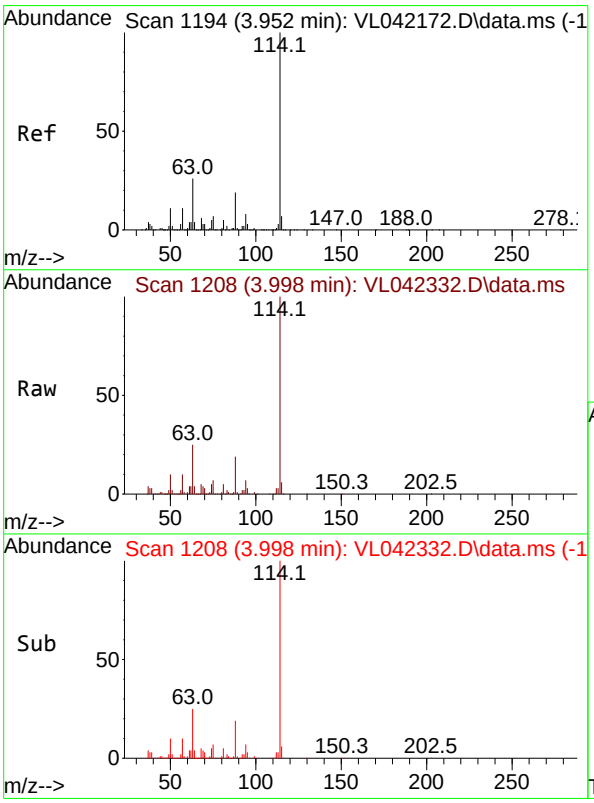
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 2.5 | 36.9 | 55.3# |

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025DL2

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

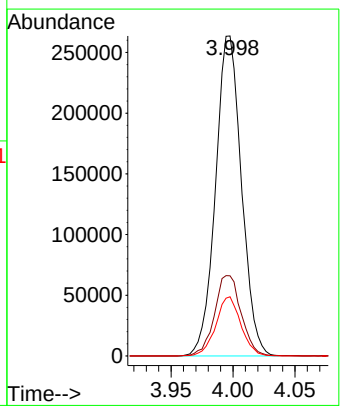


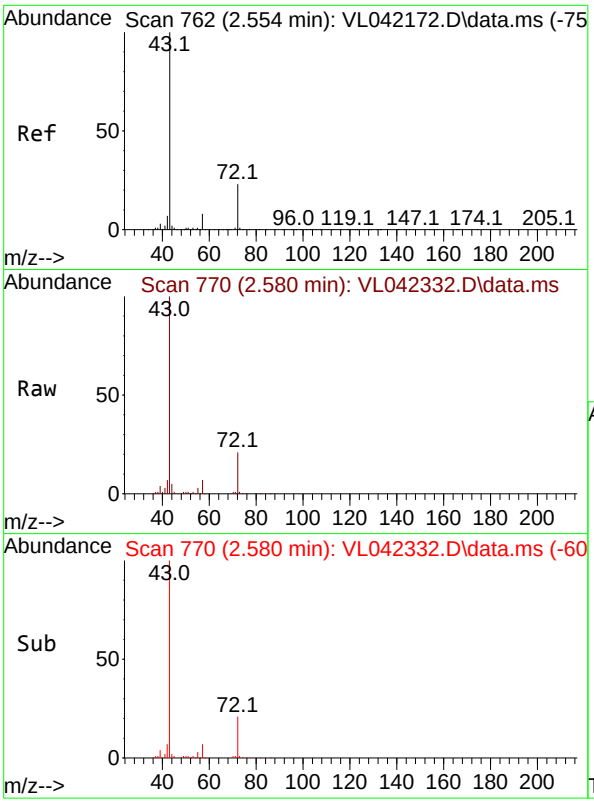




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.998 min Scan# 1208
Delta R.T. 0.045 min
Lab File: VL042332.D
Acq: 15 Apr 2025 15:01

Tgt Ion:114 Resp: 385228

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.9 | 20.7 | 31.1 |
| 88 | 17.9 | 15.0 | 22.4 |






#34
2-Butanone
Concen: 4.837 ppbv
RT: 2.580 min Scan# 7
Delta R.T. 0.026 min
Lab File: VL042332.D
Acq: 15 Apr 2025 15:01

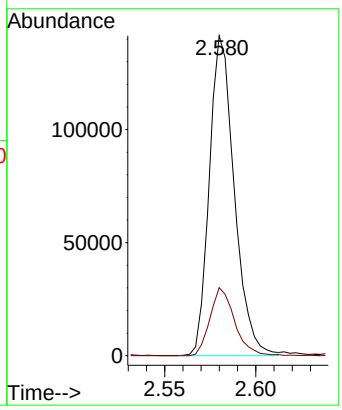
Tgt Ion: 43 Resp: 13511

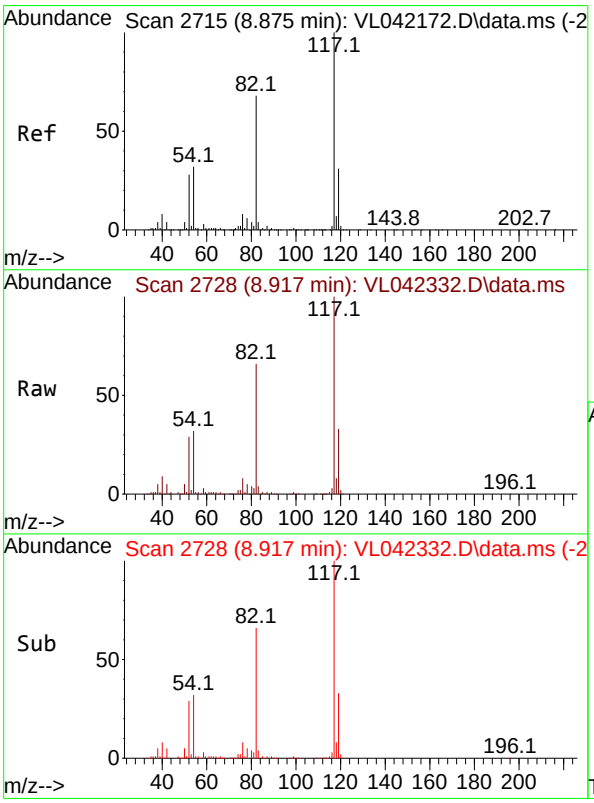
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 21.0 | 18.2 | 27.2 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025DL2

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

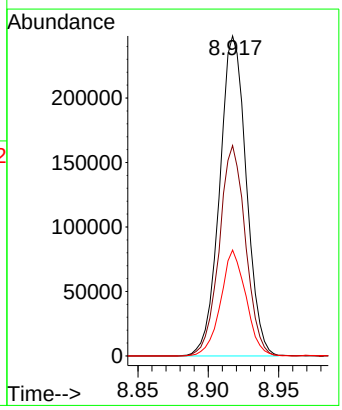


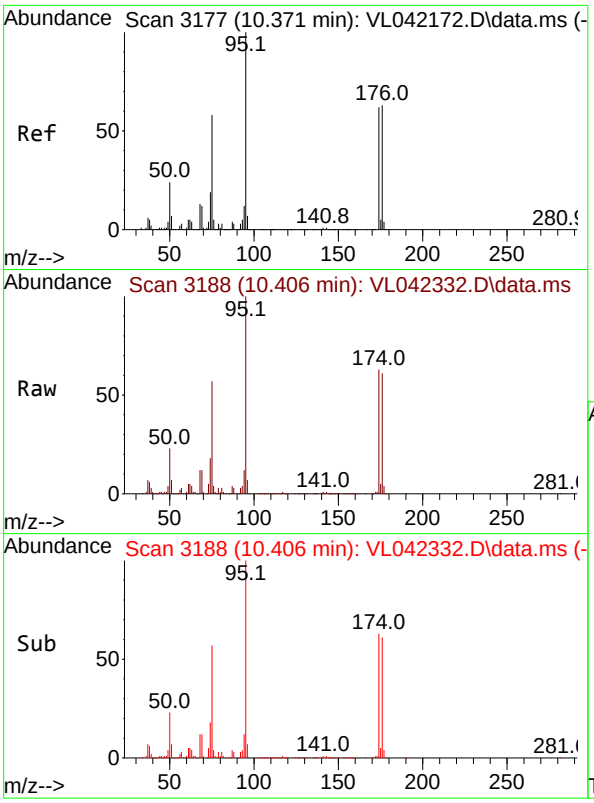




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. 0.042 min
Lab File: VL042332.D
Acq: 15 Apr 2025 15:01

Tgt Ion:117 Resp: 327587

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 64.9 | 55.8 | 83.6 |
| 119 | 31.5 | 25.5 | 38.3 |

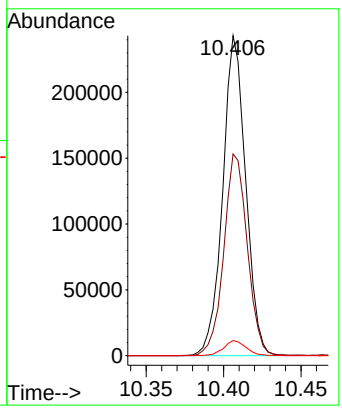





#68
1-Bromo-4-Fluorobenzene
Concen: 9.330 ppbv
RT: 10.406 min Scan# 3
Delta R.T. 0.035 min
Lab File: VL042332.D
Acq: 15 Apr 2025 15:01

Tgt Ion: 95 Resp: 25100

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 64.9 | 50.6 | 76.0 |
| 175 | 4.6 | 3.8 | 5.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025DL2

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B10-1-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-11 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042320.D | 1 | | 04/11/25 15:01 | VL041125 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.43 | 2.13 | J | 1.04 | 2.47 | ug/m3 |
| 64-17-5 | Ethanol | 1100 | 2070 | EQ | 0.60 | 0.94 | ug/m3 |
| 74-87-3 | Chloromethane | 0.59 | 1.22 | | 0.21 | 1.03 | ug/m3 |
| 75-01-4 | Vinyl Chloride | 0.010 | 0.030 | U | 0.030 | 0.080 | ug/m3 |
| 74-83-9 | Bromomethane | 0.14 | 0.54 | U | 0.54 | 1.94 | ug/m3 |
| 75-00-3 | Chloroethane | 0.17 | 0.45 | U | 0.45 | 1.32 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | 0.13 | 0.38 | U | 0.38 | 1.47 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | 0.22 | 1.24 | J | 0.90 | 2.81 | ug/m3 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.16 | 1.23 | U | 1.23 | 3.83 | ug/m3 |
| 76-14-2 | Dichlorotetrafluoroethane | 0.090 | 0.63 | U | 0.63 | 3.49 | ug/m3 |
| 593-60-2 | Bromoethene | 0.12 | 0.52 | U | 0.52 | 2.19 | ug/m3 |
| 75-65-0 | tert-Butyl alcohol | 0.42 | 1.27 | J | 0.58 | 1.52 | ug/m3 |
| 142-82-5 | Heptane | 0.11 | 0.45 | U | 0.45 | 2.05 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | 51.2 | 126 | E | 0.17 | 1.23 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethene | 0.14 | 0.56 | U | 0.56 | 1.98 | ug/m3 |
| 67-64-1 | Acetone | 78.5 | 186 | E | 0.57 | 1.19 | ug/m3 |
| 75-15-0 | Carbon Disulfide | 0.16 | 0.50 | U | 0.50 | 1.56 | ug/m3 |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.12 | 0.43 | U | 0.43 | 1.80 | ug/m3 |
| 75-09-2 | Methylene Chloride | 14.8 | 51.4 | | 0.66 | 1.74 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.19 | 0.75 | U | 0.75 | 1.98 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | 0.13 | 0.53 | U | 0.53 | 2.02 | ug/m3 |
| 110-82-7 | Cyclohexane | 0.22 | 0.76 | U | 0.76 | 1.72 | ug/m3 |
| 78-93-3 | 2-Butanone | 12.3 | 36.3 | | 0.35 | 1.47 | ug/m3 |
| 56-23-5 | Carbon Tetrachloride | 0.080 | 0.50 | | 0.060 | 0.19 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.090 | 0.36 | U | 0.36 | 1.98 | ug/m3 |
| 67-66-3 | Chloroform | 1.10 | 5.37 | | 0.39 | 2.44 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.010 | 0.050 | U | 0.050 | 0.16 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | 0.10 | 0.47 | U | 0.47 | 2.34 | ug/m3 |
| 71-43-2 | Benzene | 0.46 | 1.47 | J | 0.29 | 1.60 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | 0.090 | 0.36 | U | 0.36 | 2.02 | ug/m3 |
| 79-01-6 | Trichloroethene | 0.020 | 0.11 | U | 0.11 | 0.16 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | 0.11 | 0.51 | U | 0.51 | 2.31 | ug/m3 |
| 75-27-4 | Bromodichloromethane | 0.080 | 0.54 | U | 0.54 | 3.35 | ug/m3 |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.16 | 0.66 | J | 0.37 | 2.05 | ug/m3 |
| 108-88-3 | Toluene | 0.40 | 1.51 | J | 0.41 | 1.88 | ug/m3 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B10-1-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-11 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042320.D | 1 | | 04/11/25 15:01 | VL041125 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.060 | 0.27 | U | 0.27 | 2.27 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.060 | 0.27 | U | 0.27 | 2.27 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.070 | 0.38 | U | 0.38 | 2.73 | ug/m3 |
| 124-48-1 | Dibromochloromethane | 0.070 | 0.60 | U | 0.60 | 4.26 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane | 0.070 | 0.54 | U | 0.54 | 0.77 | ug/m3 |
| 127-18-4 | Tetrachloroethene | 0.020 | 0.14 | U | 0.14 | 0.20 | ug/m3 |
| 108-90-7 | Chlorobenzene | 0.080 | 0.37 | U | 0.37 | 2.30 | ug/m3 |
| 100-41-4 | Ethyl Benzene | 0.12 | 0.52 | U | 0.52 | 2.17 | ug/m3 |
| 179601-23-1 | m/p-Xylene | 0.22 | 0.96 | J | 0.91 | 4.34 | ug/m3 |
| 95-47-6 | o-Xylene | 0.15 | 0.65 | J | 0.52 | 2.17 | ug/m3 |
| 100-42-5 | Styrene | 0.11 | 0.47 | U | 0.47 | 2.13 | ug/m3 |
| 75-25-2 | Bromoform | 0.060 | 0.62 | U | 0.62 | 5.17 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.010 | 0.070 | UQ | 0.070 | 0.21 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | 0.11 | 0.57 | U | 0.57 | 2.59 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.16 | 0.79 | J | 0.54 | 2.46 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.57 | 2.80 | | 0.39 | 2.46 | ug/m3 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.080 | 0.48 | U | 0.48 | 3.01 | ug/m3 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.050 | 0.30 | U | 0.30 | 3.01 | ug/m3 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.080 | 0.48 | UQ | 0.48 | 3.01 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.090 | 0.67 | U | 0.67 | 3.71 | ug/m3 |
| 87-68-3 | Hexachloro-1,3-Butadiene | 0.090 | 0.96 | U | 0.96 | 5.33 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | 0.13 | 0.29 | U | 0.29 | 1.11 | ug/m3 |
| 91-20-3 | Naphthalene | 0.080 | 0.42 | U | 0.42 | 0.52 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | 0.12 | 0.59 | U | 0.59 | 2.46 | ug/m3 |
| 110-54-3 | Hexane | 8.10 | 28.6 | | 0.39 | 1.76 | ug/m3 |
| 107-05-1 | Allyl Chloride | 0.15 | 0.47 | U | 0.47 | 1.57 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | 0.21 | 0.76 | U | 0.76 | 1.80 | ug/m3 |
| 80-62-6 | Methyl Methacrylate | 0.090 | 0.37 | U | 0.37 | 2.05 | ug/m3 |
| **SURROGATES** | | | | | | | |
| 460-00-4 | 1-Bromo-4-Fluorobenzene | 10.0 | | | 70 (65) - 130 (135) | 100% | SPK: 10 |
| **INTERNAL STANDARDS** | | | | | | | |
| 74-97-5 | Bromochloromethane | 184000 | | 2.787 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 461000 | | 3.955 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 381000 | | 8.882 | | | |
| **TENTITIVE IDENTIFIED COMPOUNDS** | | | | | | | |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B10-1-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-11 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042320.D | 1 | | 04/11/25 15:01 | VL041125 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 115-07-1 | Propene | 3.80 | | J | | 1.49 | ppbv |
| 000106-97-8 | Butane | 2.20 | | J | | 1.62 | ppbv |
| 003769-23-1 | 1-Hexene, 4-methyl- | 1.30 | | J | | 2.63 | ppbv |
| | unknown3.230 | 1.30 | | J | | 3.23 | ppbv |
| 000124-18-5 | Decane | 1.80 | | J | | 11.8 | ppbv |
| 99-87-6 | p-Isopropyltoluene | 0.12 | | J | | 11.9 | ppbv |
| 005989-27-5 | D-Limonene | 8.40 | | J | | 12.0 | ppbv |

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042320.D
Acq On : 11 Apr 2025 15:01
Operator : SY/MD
Sample : Q1665-11
Misc : 400mL/MSVOA_L
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 11 23:01:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) Bromochloromethane | 2.787 | 49 | 183875 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.955 | 114 | 460651 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.882 | 117 | 381290 | 10.000 | ppbv | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95 | 314052 | 10.030 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 100.300% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.496 | 85 | 11636 | 0.429 | ppbv | | 90 |
| 4) Chloromethane | 1.531 | 50 | 6489 | 0.585 | ppbv | # | 86 |
| 9) Propene | 1.486 | 41 | 48793m | 3.838 | ppbv | | |
| 11) Trichlorofluoromethane | 1.877 | 101 | 5866 | 0.222 | ppbv | | 100 |
| 13) Ethanol | 1.722 | 45 | 1300122 | 1081.877 | ppbv | | 88 |
| 15) Acetone | 1.832 | 43 | 2018088 | 78.476 | ppbv | # | 79 |
| 17) tert-Butyl alcohol | 2.043 | 59 | 13419m | 0.419 | ppbv | | |
| 19) Isopropyl Alcohol | 1.884 | 45 | 743440 | 51.238 | ppbv | # | 5 |
| 20) Methylene Chloride | 2.062 | 84 | 141997 | 14.826 | ppbv | | 96 |
| 26) Hexane | 2.826 | 57 | 208675 | 8.094 | ppbv | # | 41 |
| 29) Chloroform | 2.848 | 83 | 40045 | 1.061 | ppbv | | 96 |
| 34) 2-Butanone | 2.557 | 43 | 411404 | 12.316 | ppbv | | 98 |
| 35) Carbon Tetrachloride | 3.755 | 117 | 2791m | 0.078 | ppbv | | |
| 36) Benzene | 3.654 | 78 | 21158 | 0.463 | ppbv | | 98 |
| 50) 4-Methyl-2-Pentanone | 5.774 | 43 | 8442m | 0.159 | ppbv | | |
| 53) Toluene | 6.930 | 91 | 21762m | 0.402 | ppbv | | |
| 59) m/p-Xylene | 9.532 | 91 | 12058m | 0.223 | ppbv | | |
| 60) o-Xylene | 9.966 | 91 | 7975 | 0.147 | ppbv | | 99 |
| 69) p-Isopropyltoluene | 11.927 | 119 | 10393 | 0.116 | ppbv | # | 90 |
| 72) 4-Ethyltoluene | 11.125 | 105 | 7507 | 0.111 | ppbv | # | 64 |
| 73) 1,3,5-Trimethylbenzene | 11.205 | 105 | 9483 | 0.161 | ppbv | | 96 |
| 74) 1,2,4-Trimethylbenzene | 11.536 | 105 | 38801 | 0.571 | ppbv | # | 68 |

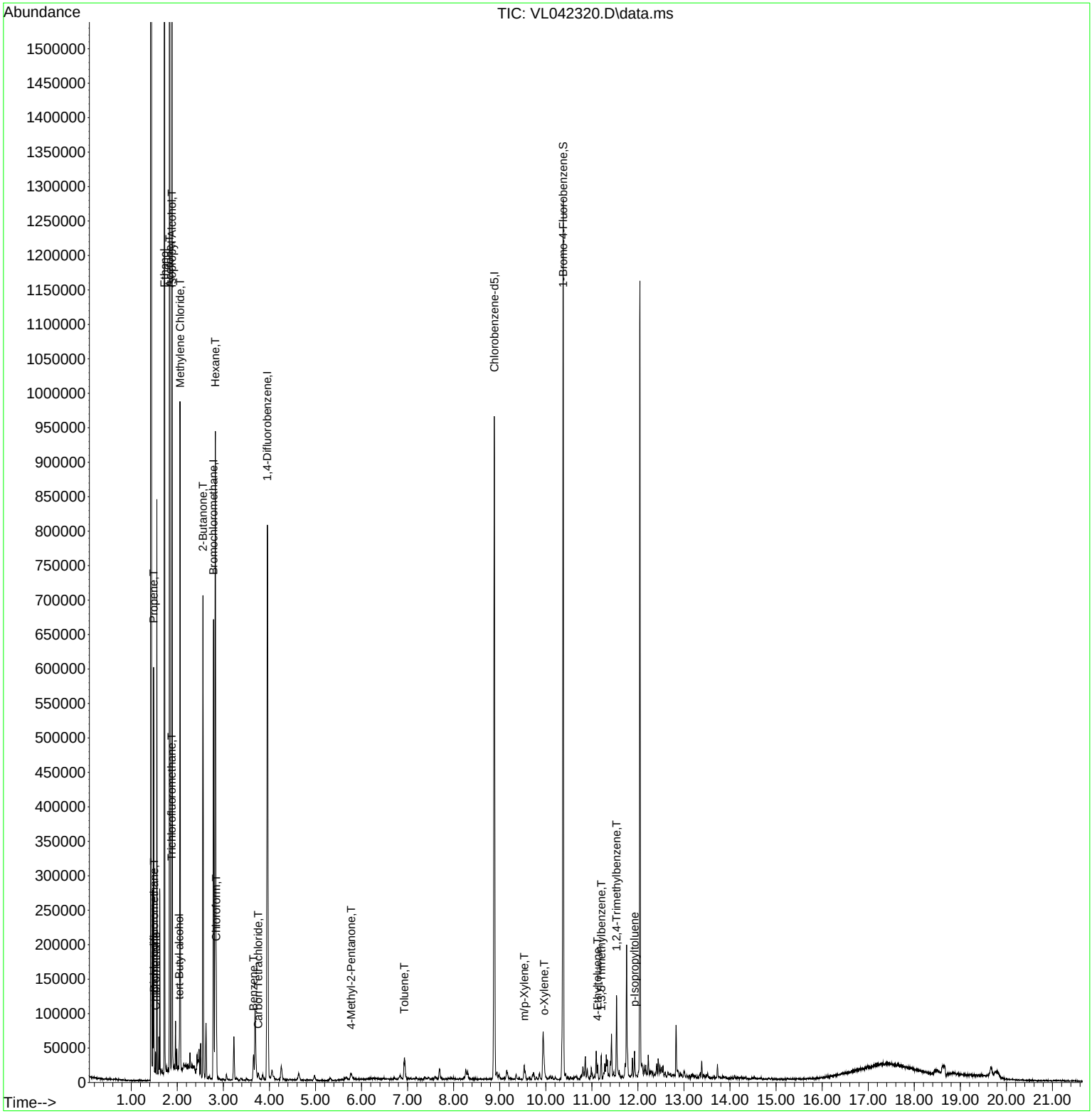
(#) = qualifier out of range (m) = manual integration (+) = signals summed

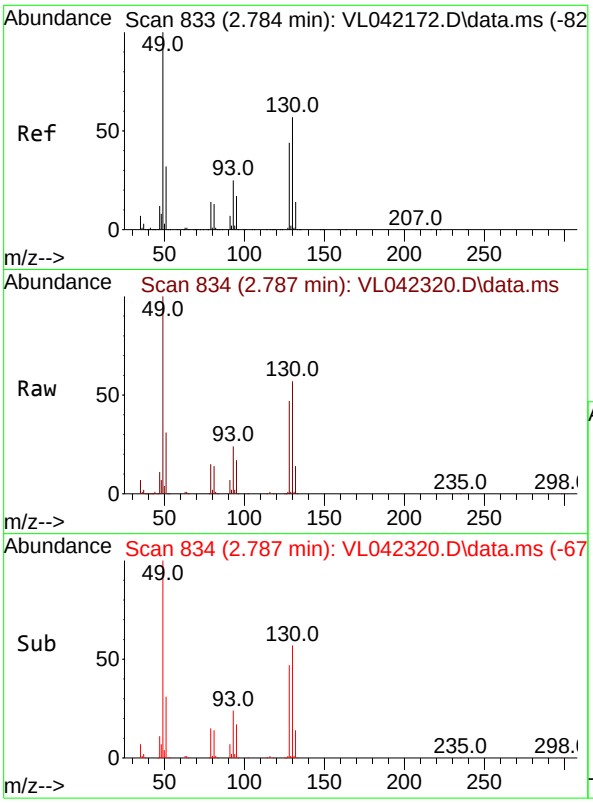
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042320.D
Acq On : 11 Apr 2025 15:01
Operator : SY/MD
Sample : Q1665-11
Misc : 400mL/MSVOA_L
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 11 23:01:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

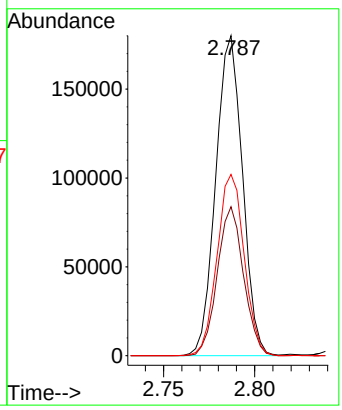





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion: 49 Resp: 18387

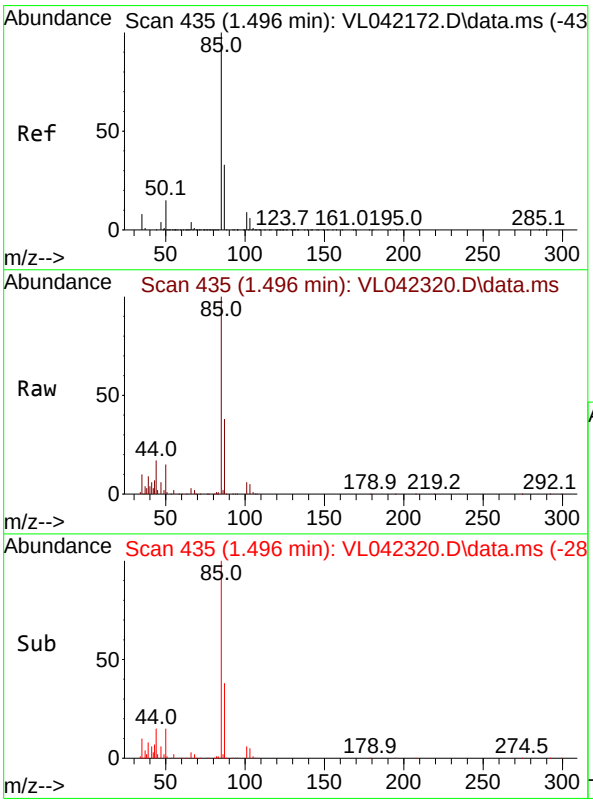
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 45.7 | 22.9 | 68.5 |
| 130 | 57.5 | 28.8 | 86.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025

**Manual Integrations**
**APPROVED**

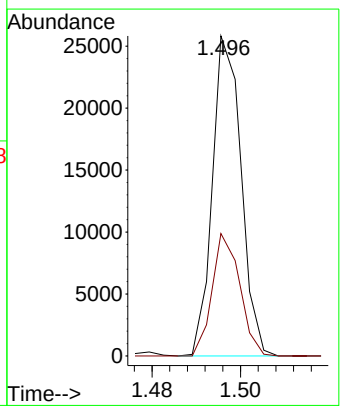
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

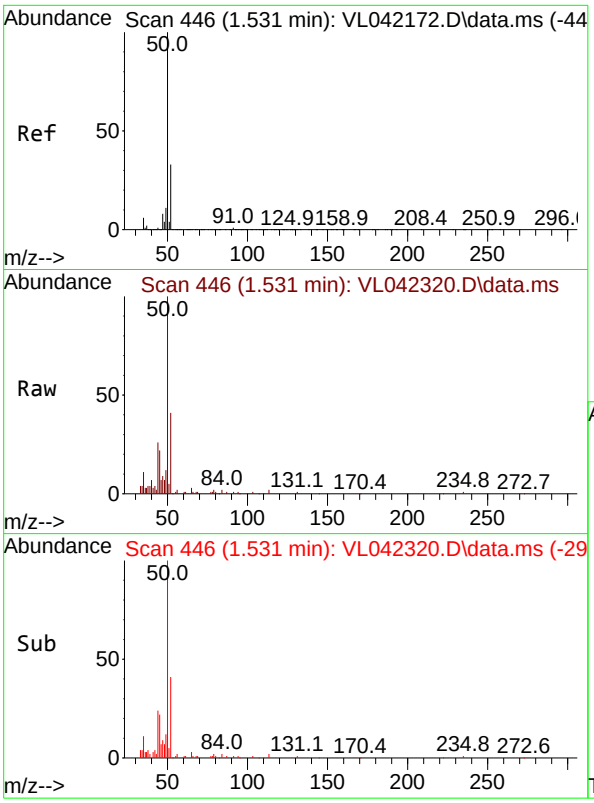



#2
Dichlorodifluoromethane
Concen: 0.429 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion: 85 Resp: 11636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 38.2 | 26.1 | 39.1 |

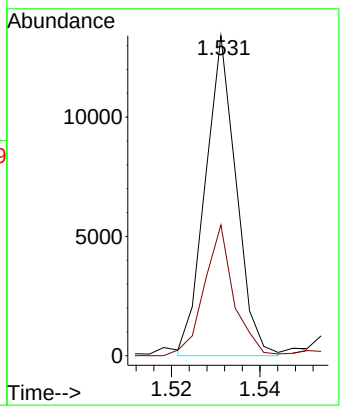





#4
Chloromethane
Concen: 0.585 ppbv
RT: 1.531 min Scan# 44
Delta R.T. -0.000 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion: 50 Resp: 648

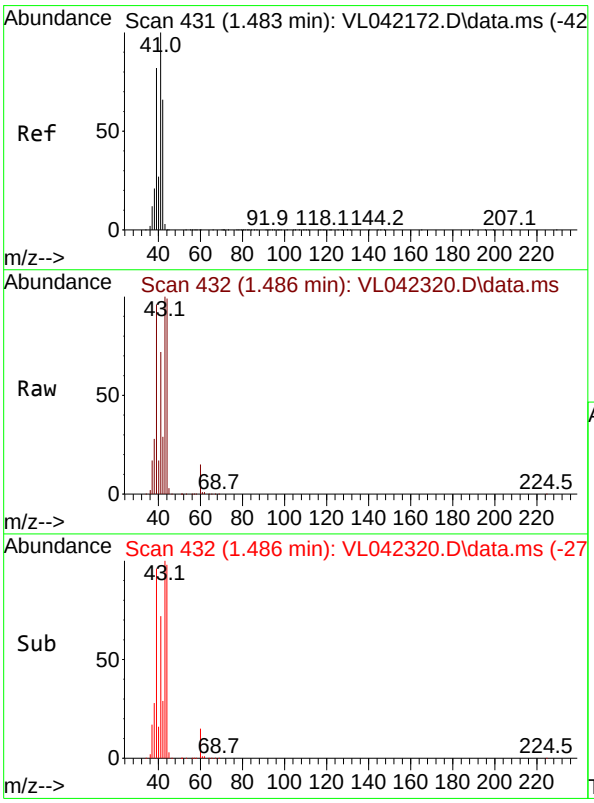
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 40.7 | 26.1 | 39.1# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025

**Manual Integrations**
**APPROVED**

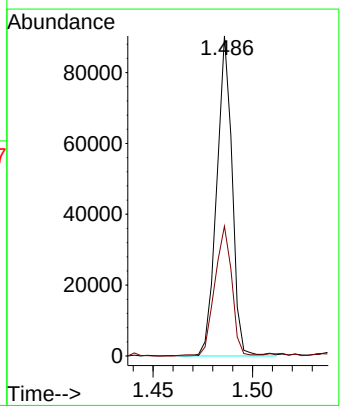
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

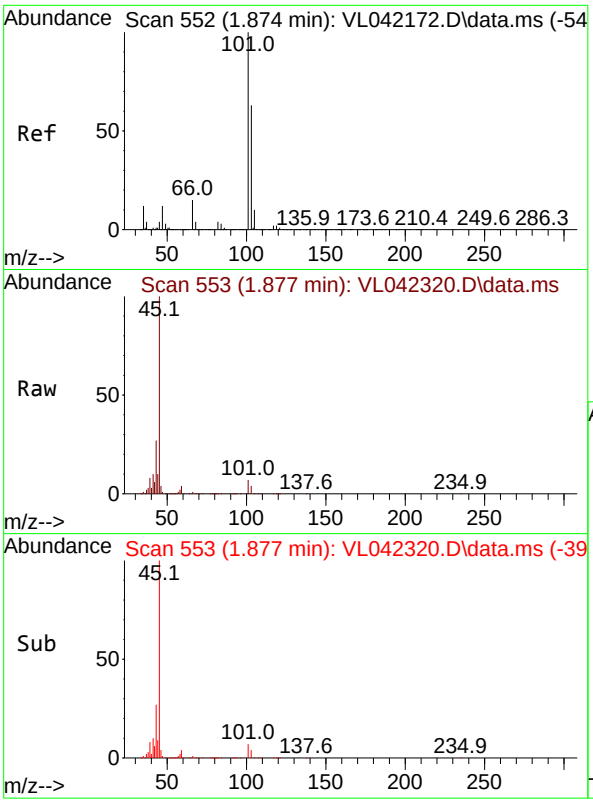



#9
Propene
Concen: 3.838 ppbv m
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion: 41 Resp: 48793

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 87.5 | 55.4 | 83.2# |

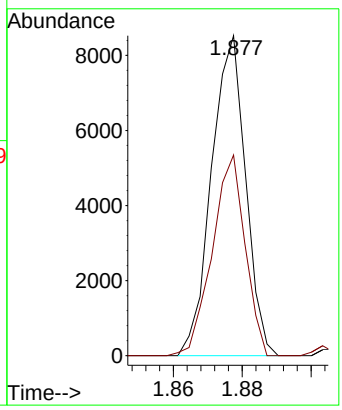





#11
Trichlorofluoromethane
Concen: 0.222 ppbv
RT: 1.877 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion:101 Resp: 586

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 62.7 | 50.2 | 75.2 |




**Instrument :**
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IA-B10-1-3242025

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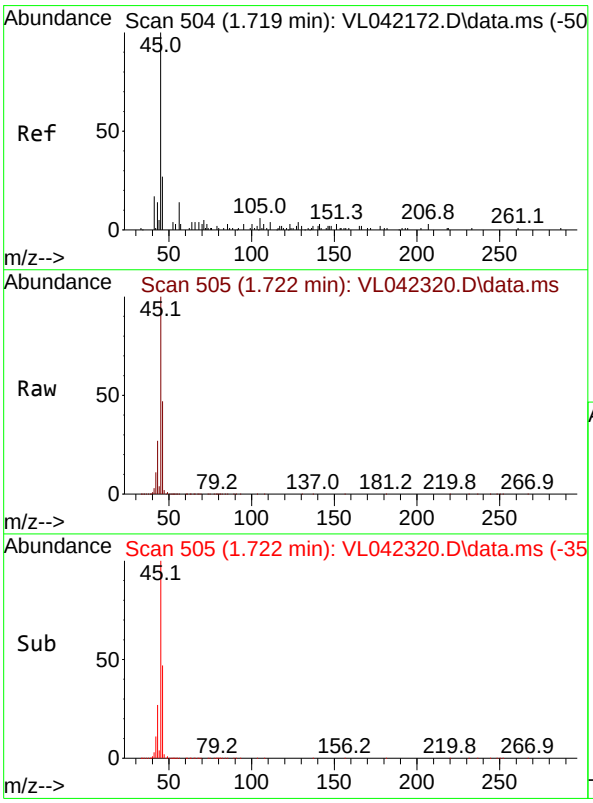
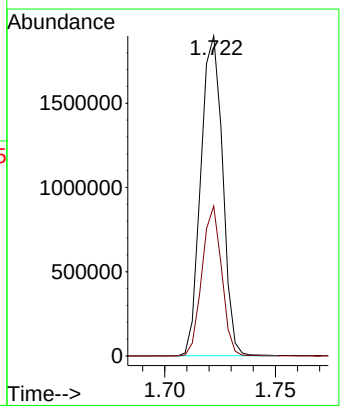
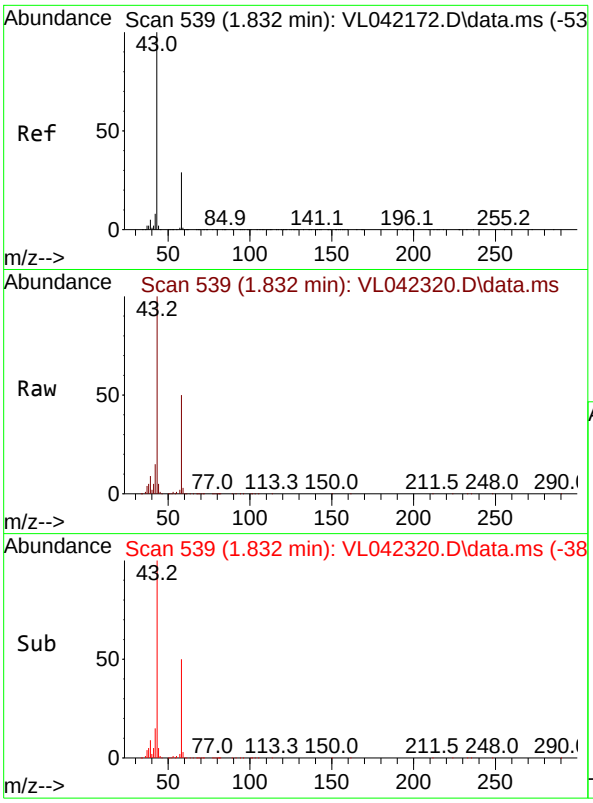



#13
Ethanol
Concen: 1081.877 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion: 45 Resp: 1300122

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 42.5 | 20.2 | 80.8 |






#15
Acetone
Concen: 78.476 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion: 43 Resp: 201808

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 40.0 | 23.2 | 34.8# |

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025

**Manual Integrations**
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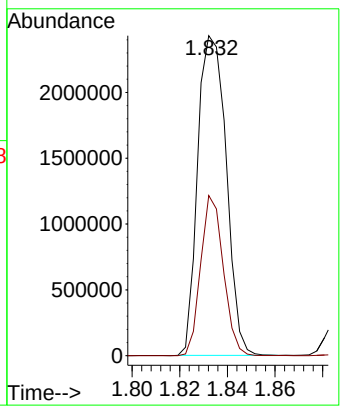
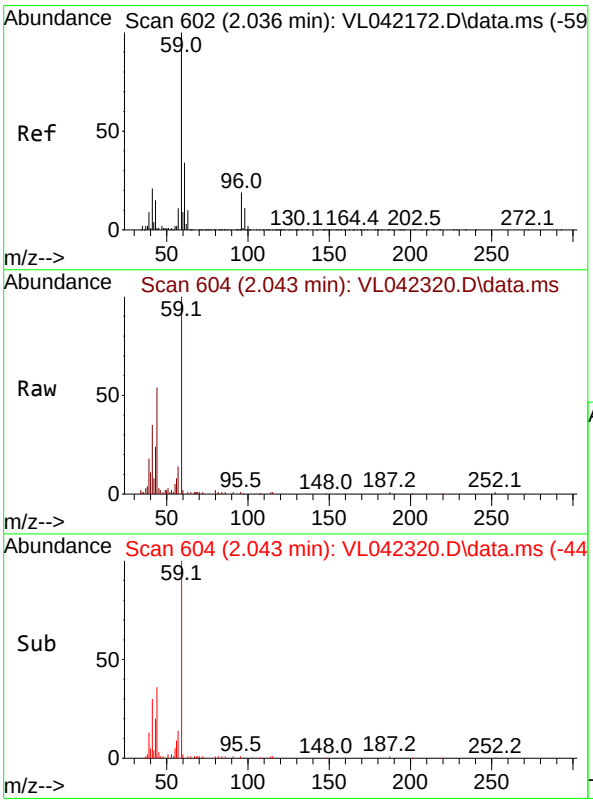
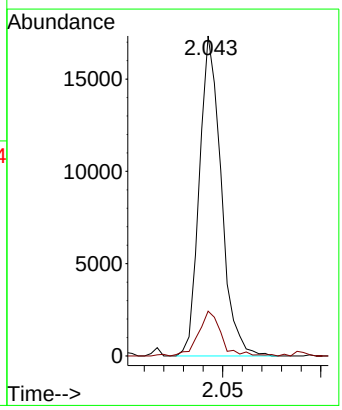


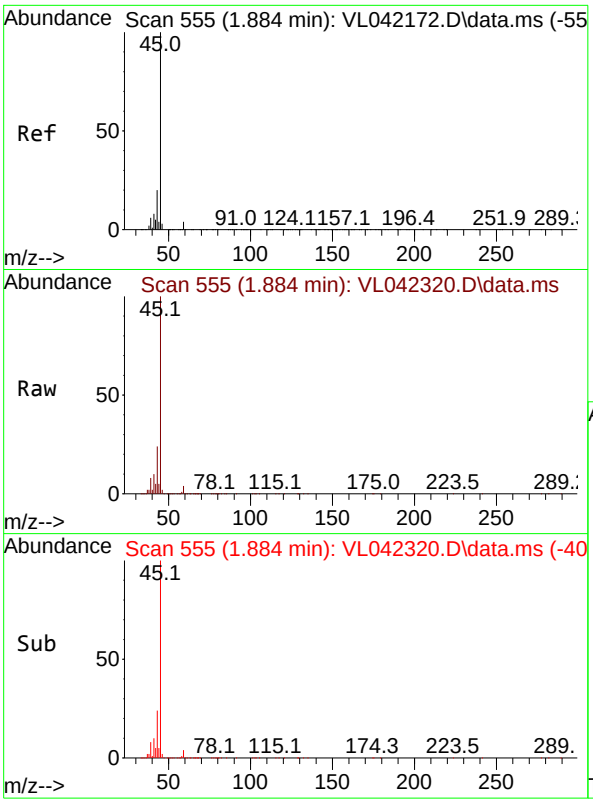




#17
tert-Butyl alcohol
Concen: 0.419 ppbv m
RT: 2.043 min Scan# 604
Delta R.T. 0.006 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion: 59 Resp: 13419

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 20.2 | 8.9 | 13.3# |






#19
Isopropyl Alcohol
Concen: 51.238 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion: 45 Resp: 74344

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 108.7 | 36.9 | 55.3# |

**Instrument :**
MSVOA_L
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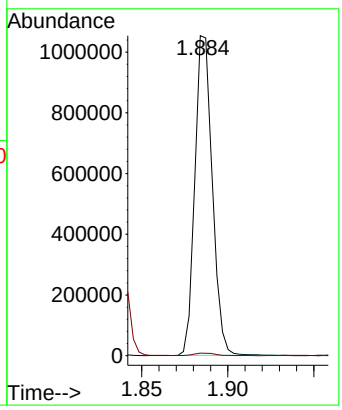
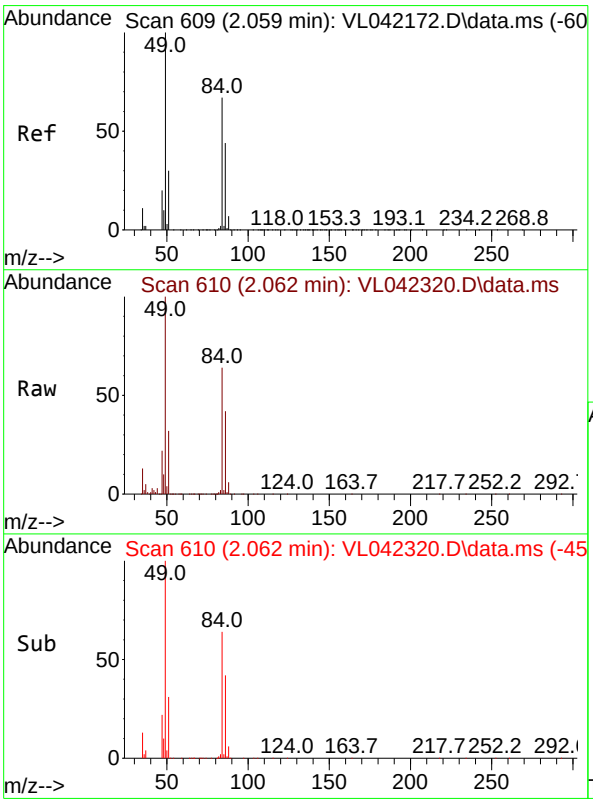
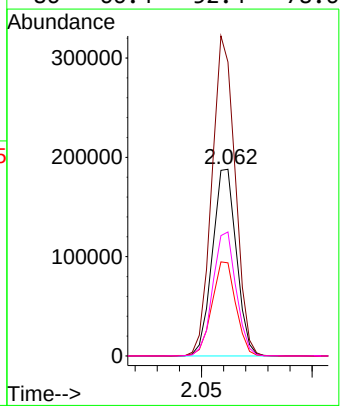


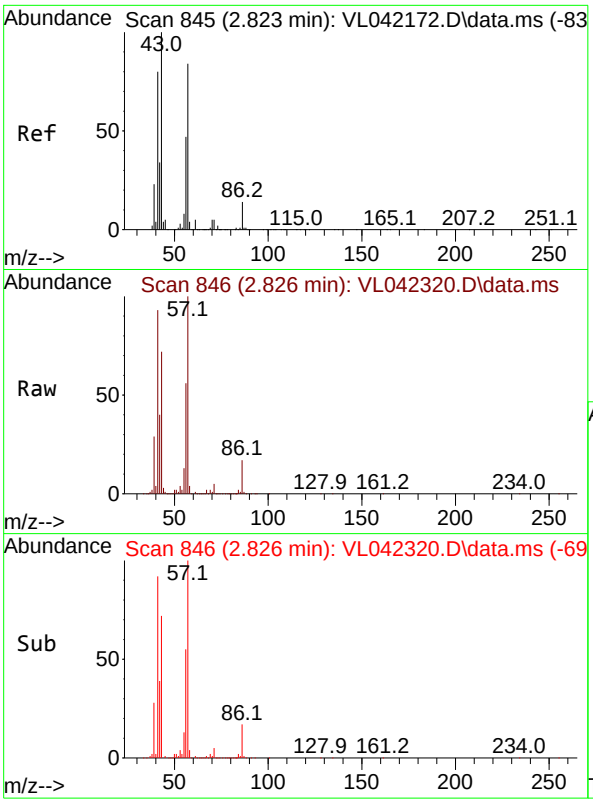




#20
Methylene Chloride
Concen: 14.826 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion: 84 Resp: 141997

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 157.4 | 120.2 | 180.4 |
| 51 | 49.9 | 37.4 | 56.0 |
| 86 | 66.4 | 52.4 | 78.6 |

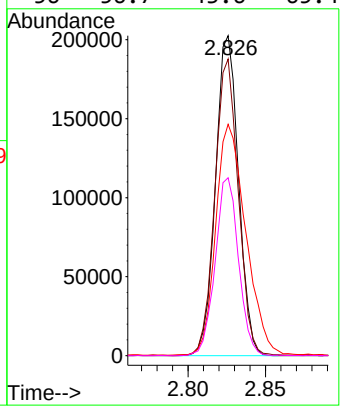





#26
Hexane
Concen: 8.094 ppbv
RT: 2.826 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion: 57 Resp: 20867

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 94.9 | 76.6 | 114.8 |
| 43 | 94.7 | 207.8 | 311.8 |
| 56 | 56.7 | 43.6 | 65.4 |




**Instrument :**
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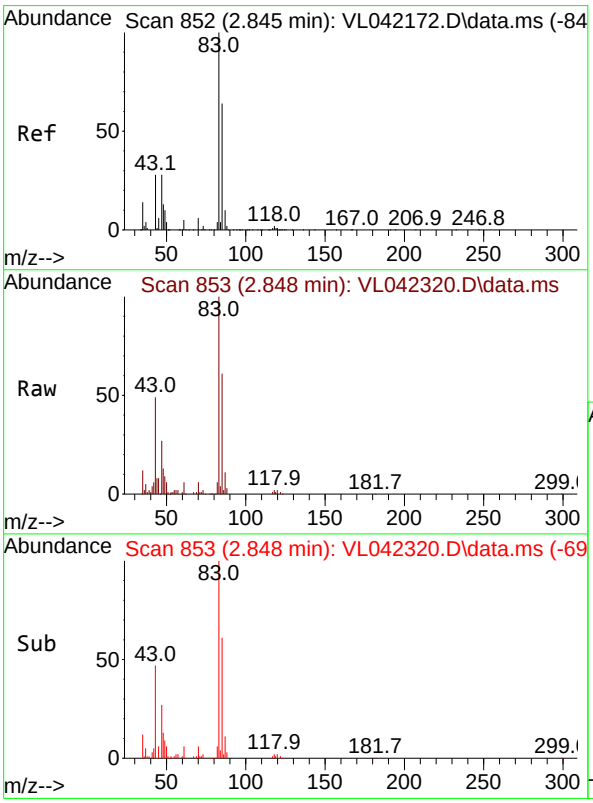
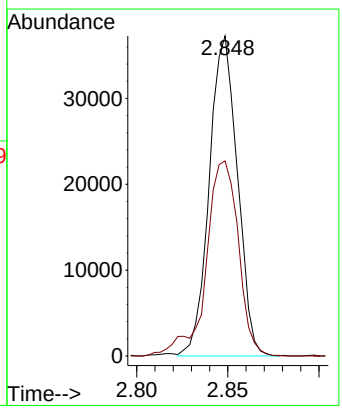
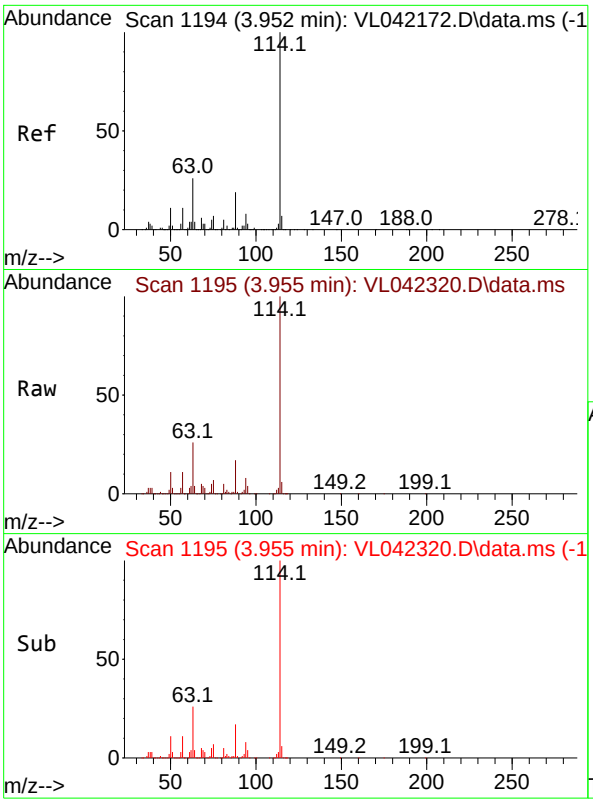



#29
Chloroform
Concen: 1.061 ppbv
RT: 2.848 min Scan# 853
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion: 83 Resp: 40045

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 60.9 | 51.4 | 77.2 |






#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion:114 Resp: 46065

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.2 | 20.7 | 31.1 |
| 88 | 17.2 | 15.0 | 22.4 |

**Instrument :**
MSVOA_L
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IA-B10-1-3242025

**Manual Integrations**
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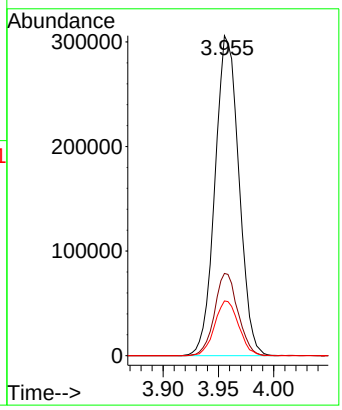
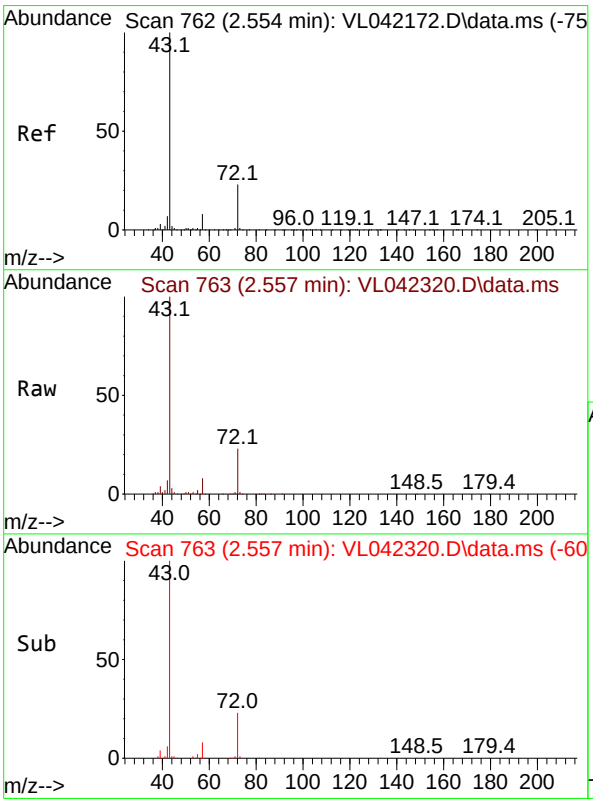
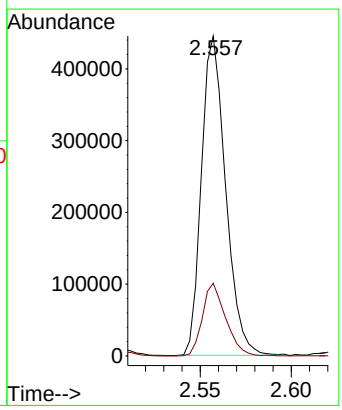


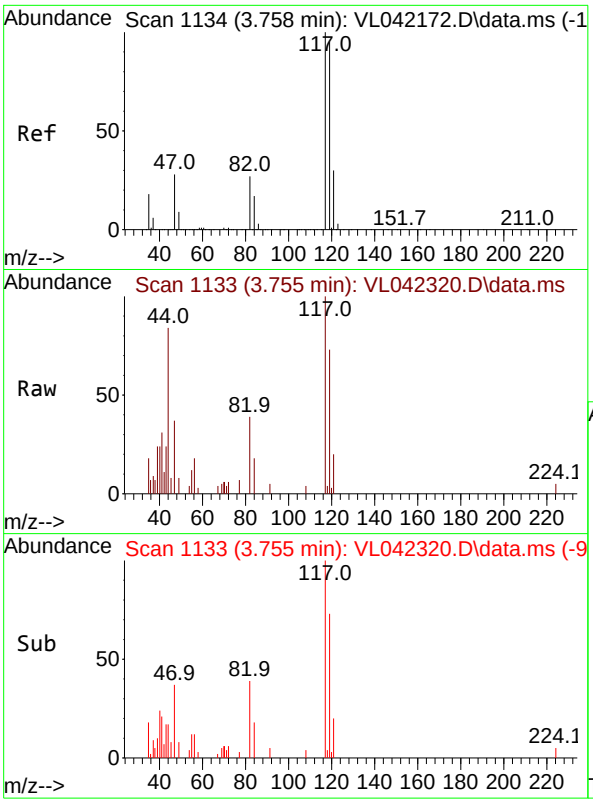




#34
2-Butanone
Concen: 12.316 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion: 43 Resp: 411404

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 21.9 | 18.2 | 27.2 |

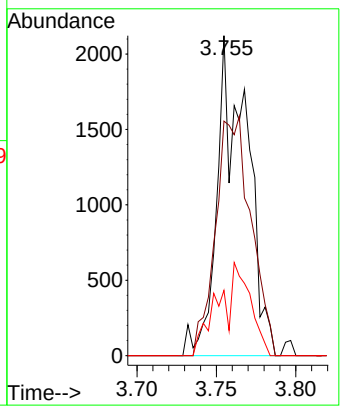





#35
Carbon Tetrachloride
Concen: 0.078 ppbv m
RT: 3.755 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion:117 Resp: 279

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 73.3 | 76.2 | 114.2# |
| 121 | 20.4 | 24.2 | 36.4# |

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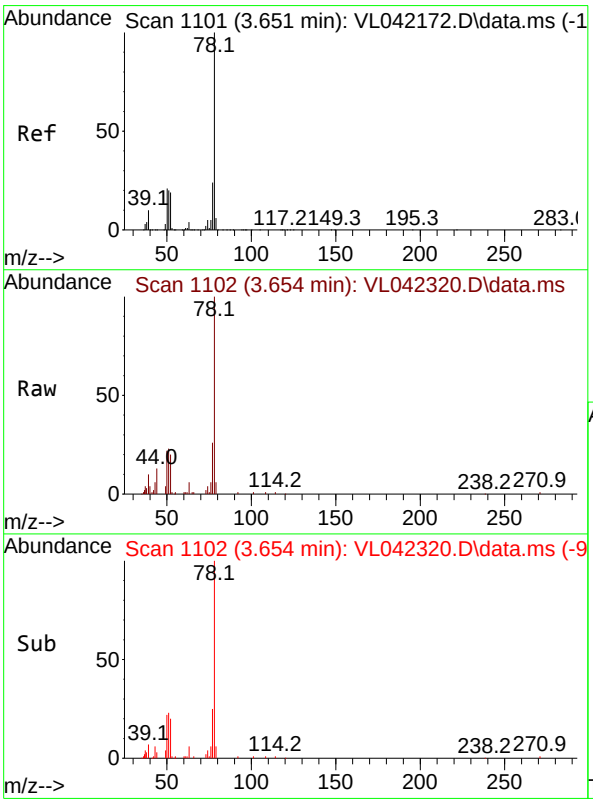
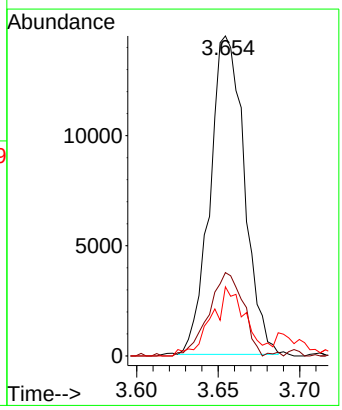
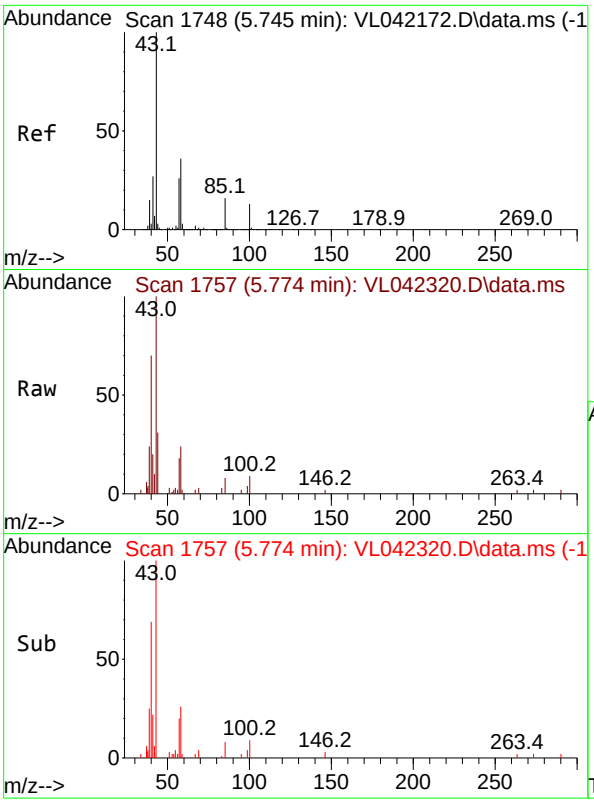



#36
Benzene
Concen: 0.463 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion: 78 Resp: 21158

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 25.2 | 19.1 | 28.7 |
| 50 | 19.8 | 16.6 | 24.8 |

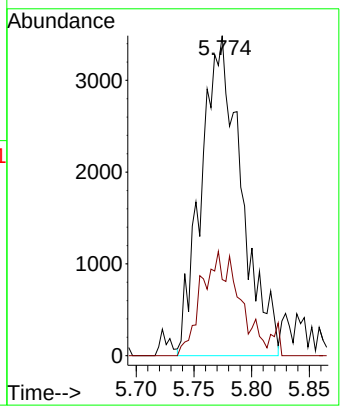





#50
4-Methyl-2-Pentanone
Concen: 0.159 ppbv m
RT: 5.774 min Scan# 1
Delta R.T. 0.029 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion: 43 Resp: 844

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 0.0 | 29.0 | 43.6# |

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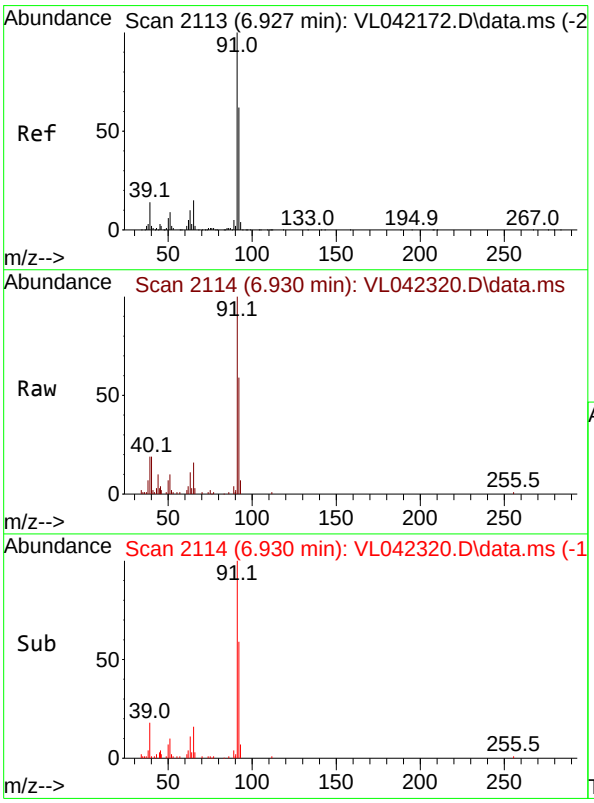
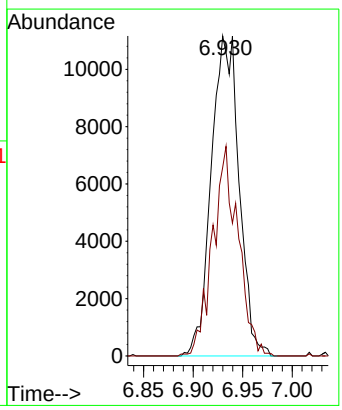
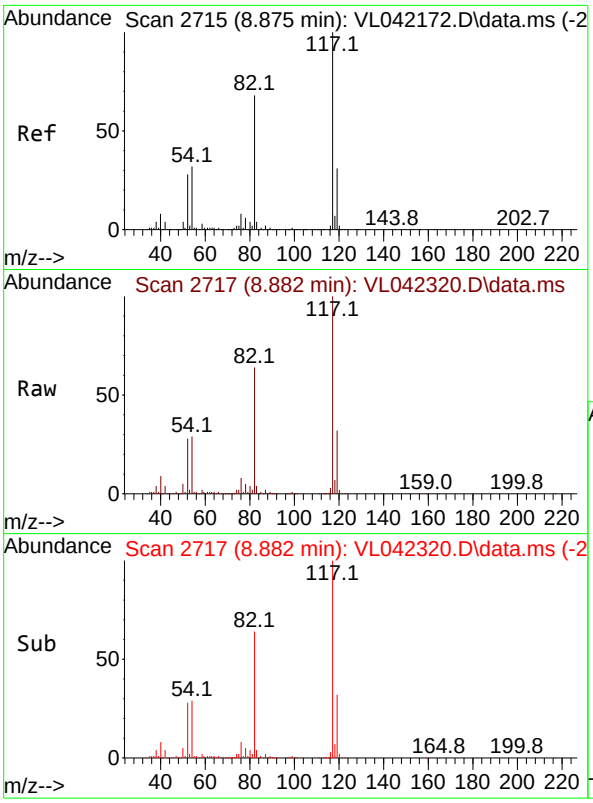



#53
Toluene
Concen: 0.402 ppbv m
RT: 6.930 min Scan# 2114
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion: 91 Resp: 21762

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 60.1 | 48.4 | 72.6 |

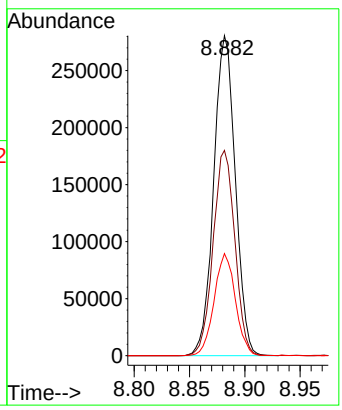





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion:117 Resp: 38129

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 64.4 | 55.8 | 83.6 |
| 119 | 31.5 | 25.5 | 38.3 |

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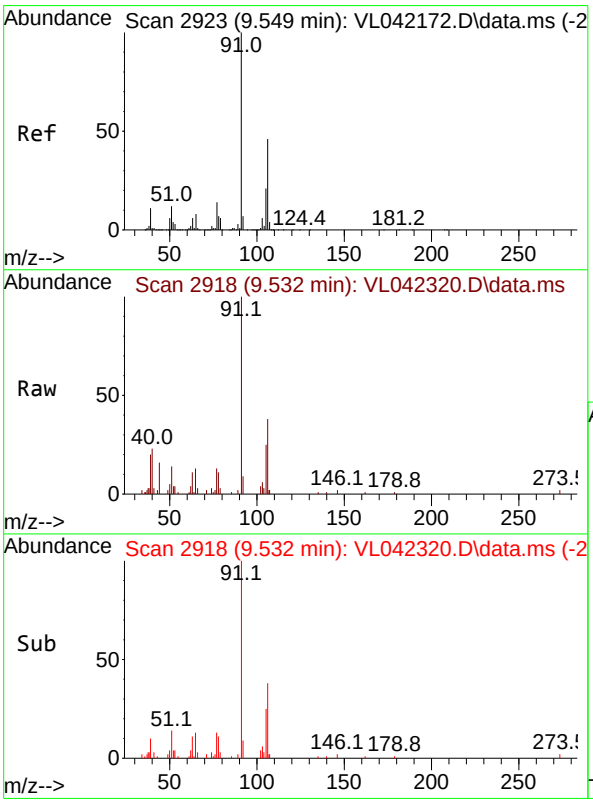
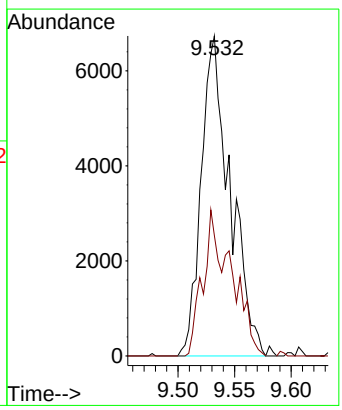
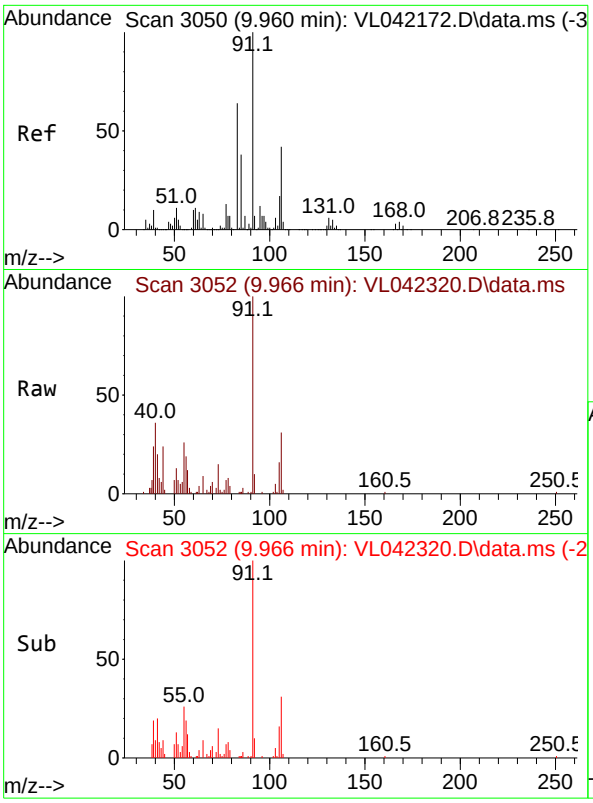



#59
m/p-Xylene
Concen: 0.223 ppbv m
RT: 9.532 min Scan# 2918
Delta R.T. -0.016 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion: 91 Resp: 12058

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 0.0 | 36.4 | 54.6# |

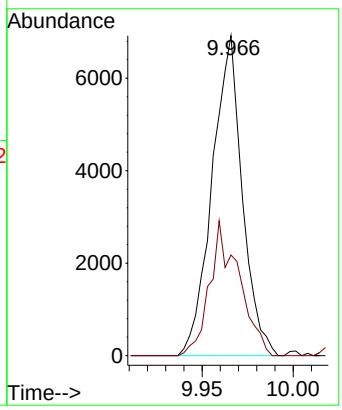





#60
o-Xylene
Concen: 0.147 ppbv
RT: 9.966 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion: 91 Resp: 797

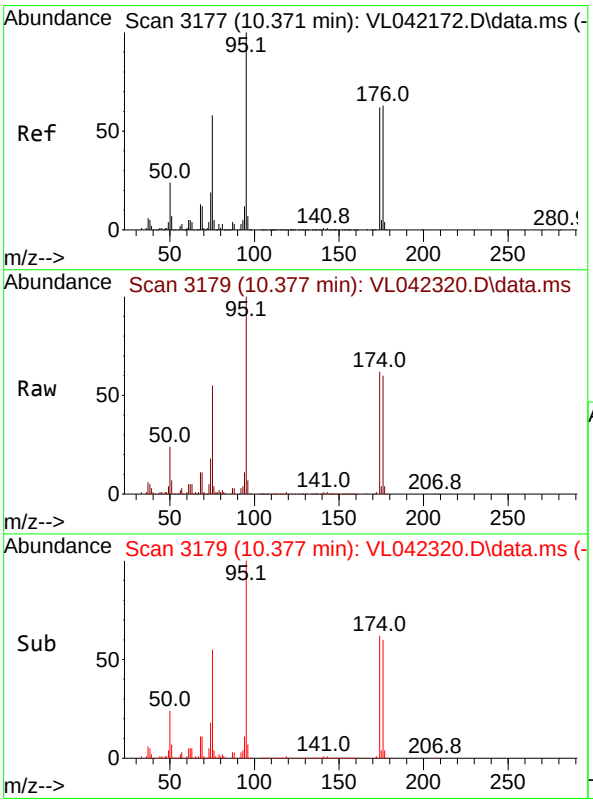
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 41.2 | 20.8 | 62.5 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025

**Manual Integrations**
**APPROVED**

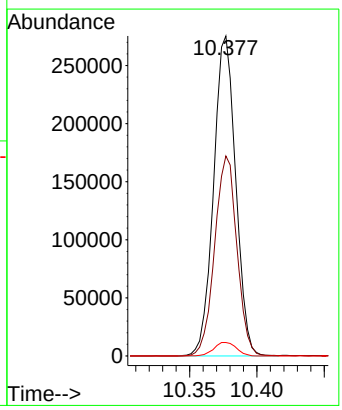
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

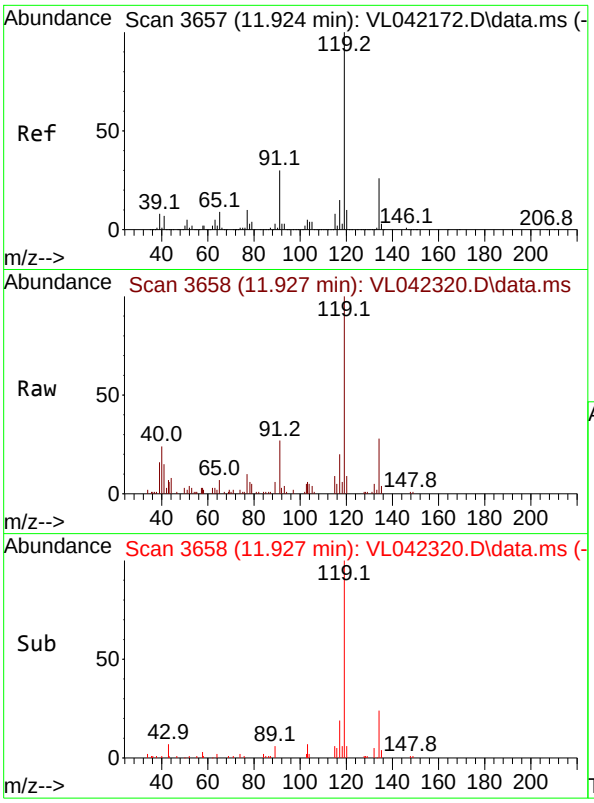



#68
1-Bromo-4-Fluorobenzene
Concen: 10.030 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.006 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion: 95 Resp: 314052

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 63.2 | 50.6 | 76.0 |
| 175 | 4.3 | 3.8 | 5.6 |

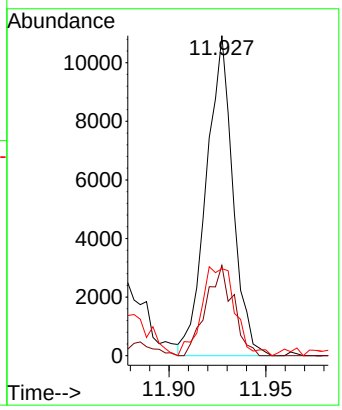





#69
p-Isopropyltoluene
Concen: 0.116 ppbv
RT: 11.927 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion:119 Resp: 1039

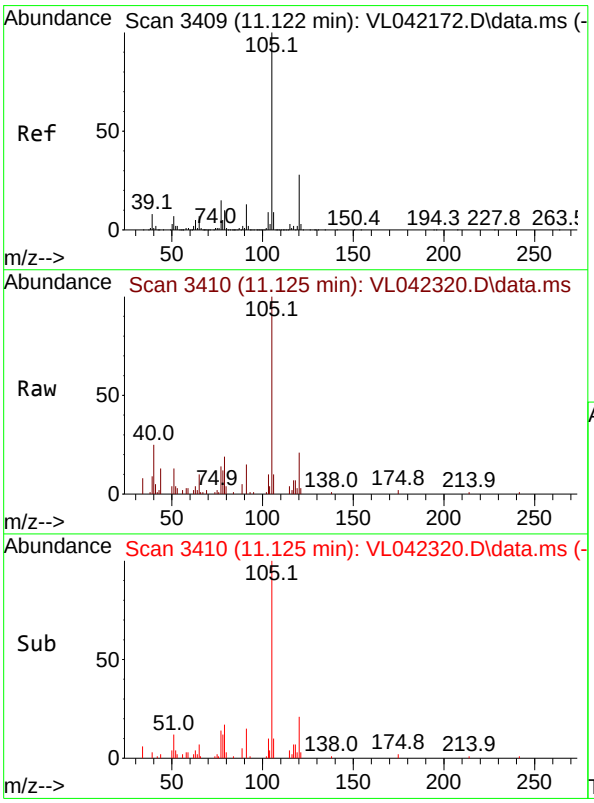
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 33.8 | 20.4 | 30.6# |
| 91 | 32.3 | 23.7 | 35.5 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025

**Manual Integrations**
**APPROVED**

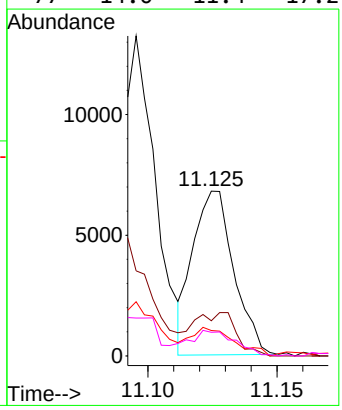
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

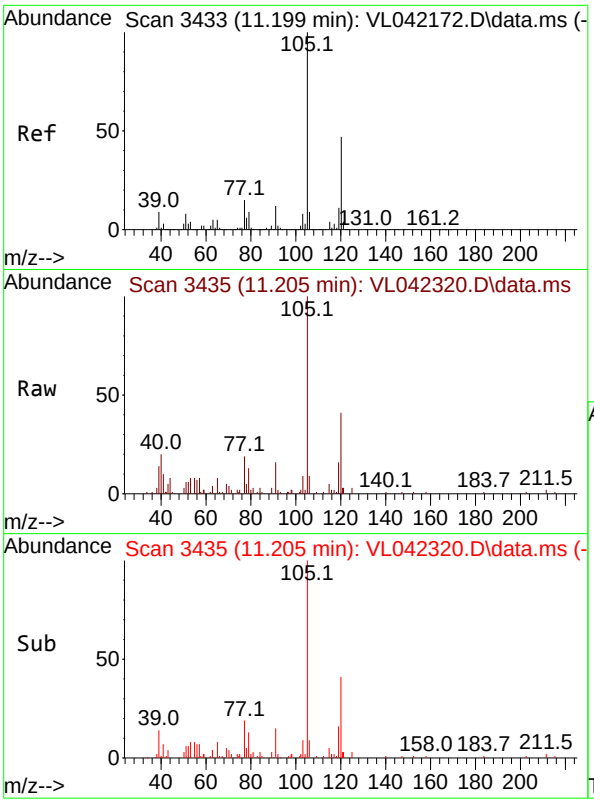



#72
4-Ethyltoluene
Concen: 0.111 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion:105 Resp: 7507

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 0.0 | 23.4 | 35.0# |
| 91 | 0.0 | 10.3 | 15.5# |
| 77 | 14.0 | 11.4 | 17.2 |

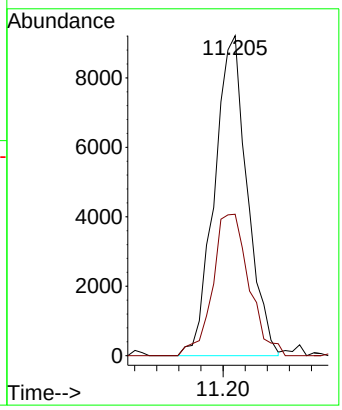





#73
1,3,5-Trimethylbenzene
Concen: 0.161 ppbv
RT: 11.205 min Scan# 34
Delta R.T. 0.006 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion:105 Resp: 948

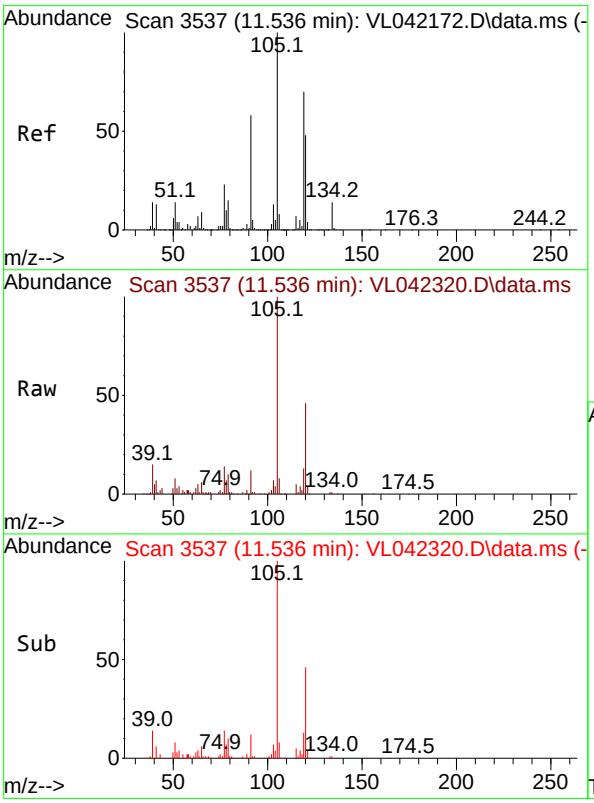
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.2 | 37.4 | 56.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025

**Manual Integrations**
**APPROVED**

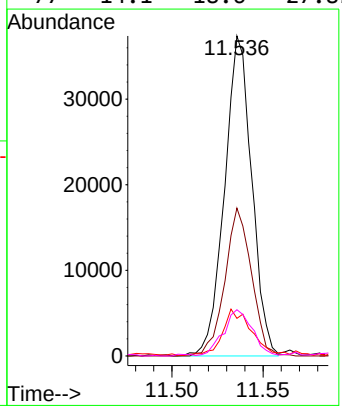
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025




#74
1,2,4-Trimethylbenzene
Concen: 0.571 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.000 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion:105 Resp: 38801

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.2 | 38.6 | 58.0 |
| 91 | 11.5 | 46.2 | 69.2# |
| 77 | 14.1 | 18.6 | 27.8# |



LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042320.D
Acq On : 11 Apr 2025 15:01
Operator : SY/MD
Sample : Q1665-11
Misc : 400mL/MSVOA_L
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

Signal : TIC: VL042320.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.431 | 409 | 415 | 420 | rBV | 4521054 | 5174698 | 100.00% | 22.327% |
| 2 | 1.466 | 423 | 426 | 429 | rVV | 269253 | 151719 | 2.93% | 0.655% |
| 3 | 1.486 | 429 | 432 | 438 | rVB2 | 588237 | 309195 | 5.98% | 1.334% |
| 4 | 1.557 | 450 | 454 | 461 | rVB2 | 833918 | 442946 | 8.56% | 1.911% |
| 5 | 1.619 | 470 | 473 | 478 | rVB | 269204 | 152176 | 2.94% | 0.657% |
| 6 | 1.722 | 500 | 505 | 516 | rBV | 3716599 | 2427848 | 46.92% | 10.475% |
| 7 | 1.832 | 535 | 539 | 548 | rBV | 4850992 | 3655379 | 70.64% | 15.772% |
| 8 | 1.884 | 548 | 555 | 568 | rVB | 1736706 | 1240418 | 23.97% | 5.352% |
| 9 | 2.059 | 600 | 609 | 618 | rVB | 969996 | 755882 | 14.61% | 3.261% |
| 10 | 2.557 | 757 | 763 | 774 | rVV | 700392 | 647954 | 12.52% | 2.796% |
| 11 | 2.625 | 776 | 784 | 791 | rVB | 80469 | 87301 | 1.69% | 0.377% |
| 12 | 2.787 | 824 | 834 | 840 | rBV | 666814 | 689399 | 13.32% | 2.975% |
| 13 | 2.826 | 840 | 846 | 861 | rVB2 | 938666 | 1179414 | 22.79% | 5.089% |
| 14 | 3.230 | 959 | 971 | 979 | rBV | 63135 | 87401 | 1.69% | 0.377% |
| 15 | 3.658 | 1092 | 1103 | 1107 | rBV3 | 36811 | 54817 | 1.06% | 0.237% |
| 16 | 3.687 | 1107 | 1112 | 1127 | rVB3 | 98863 | 160073 | 3.09% | 0.691% |
| 17 | 3.955 | 1183 | 1195 | 1211 | rBV | 805569 | 1221021 | 23.60% | 5.268% |
| 18 | 6.933 | 2101 | 2115 | 2126 | rBV2 | 30809 | 65965 | 1.27% | 0.285% |
| 19 | 8.882 | 2702 | 2717 | 2728 | rBV | 961877 | 1334856 | 25.80% | 5.759% |
| 20 | 9.943 | 3035 | 3045 | 3062 | rBV6 | 68894 | 148791 | 2.88% | 0.642% |
| 21 | 10.377 | 3164 | 3179 | 3191 | rBV | 1277243 | 1538599 | 29.73% | 6.639% |
| 22 | 11.426 | 3498 | 3503 | 3511 | rVB3 | 60665 | 68529 | 1.32% | 0.296% |
| 23 | 11.536 | 3529 | 3537 | 3550 | rBV2 | 117241 | 142672 | 2.76% | 0.616% |
| 24 | 11.756 | 3598 | 3605 | 3617 | rVB2 | 189415 | 233878 | 4.52% | 1.009% |
| 25 | 12.044 | 3685 | 3694 | 3704 | rBV | 1148822 | 1120777 | 21.66% | 4.836% |
| 26 | 12.827 | 3930 | 3936 | 3944 | rBV2 | 74331 | 85044 | 1.64% | 0.367% |

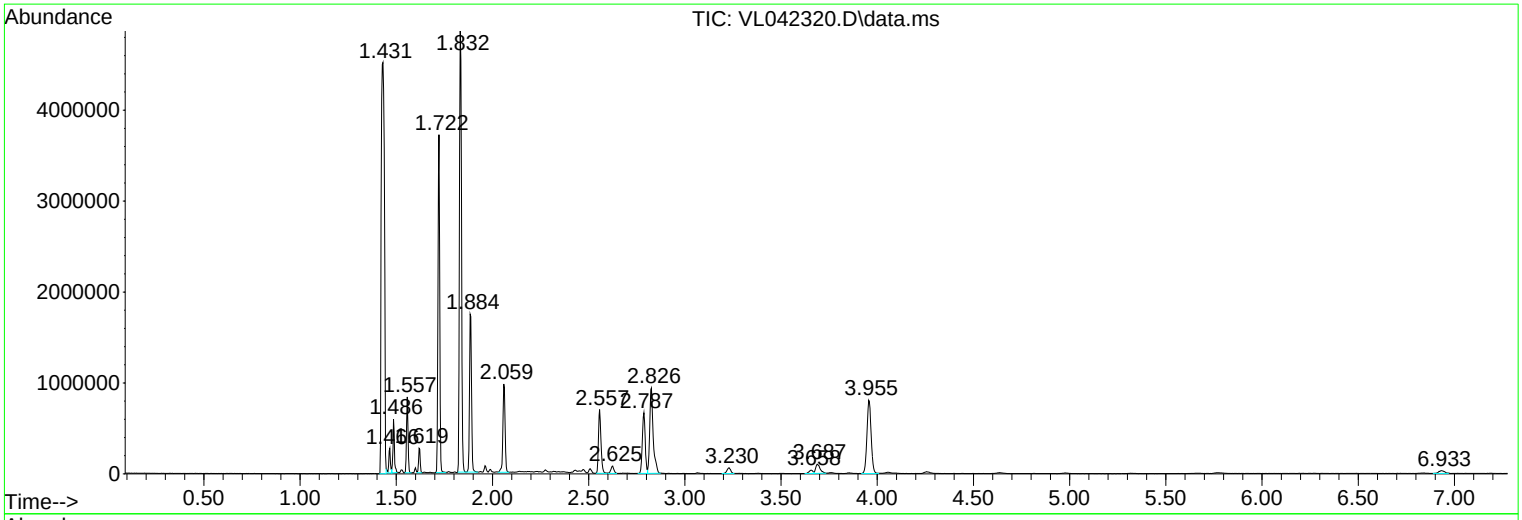
Sum of corrected areas: 23176752

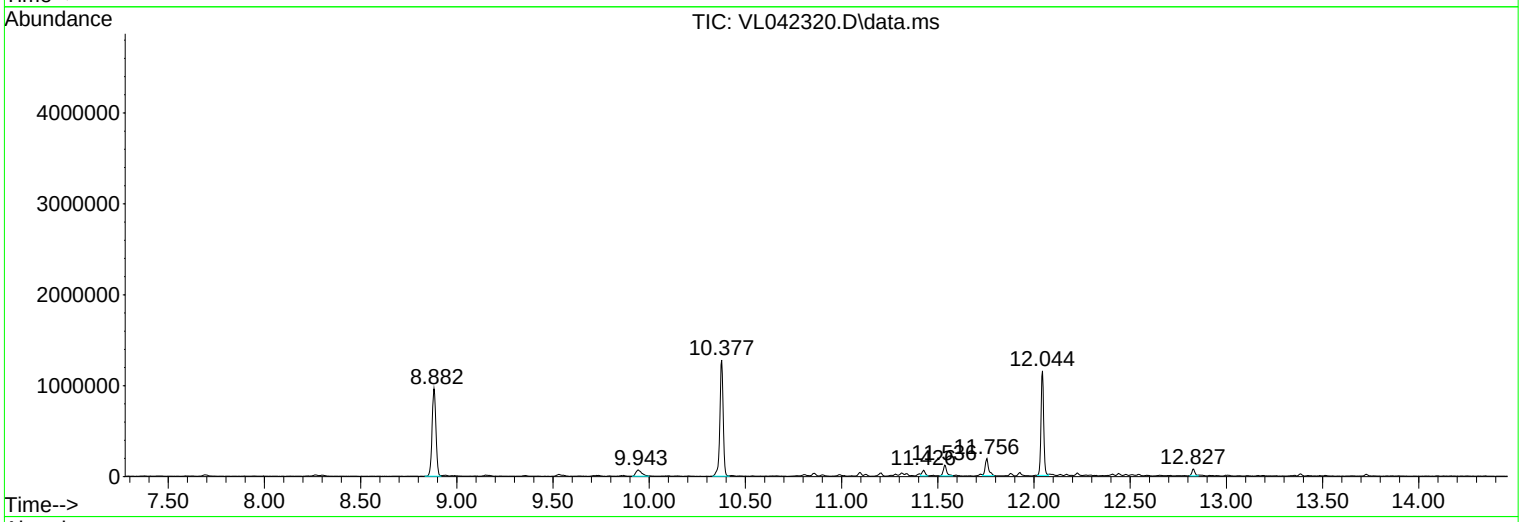
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042320.D
Acq On : 11 Apr 2025 15:01
Operator : SY/MD
Sample : Q1665-11
Misc : 400mL/MSVOA_L
ALS Vial : 3 Sample Multiplier: 1

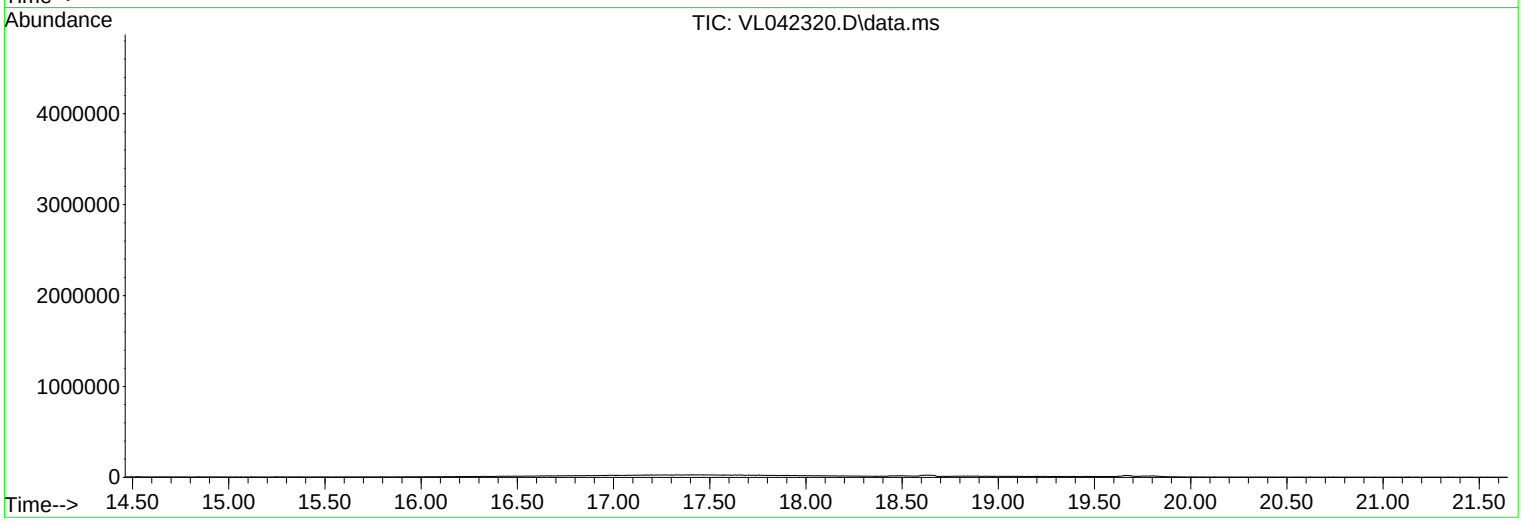
**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042320.D
Acq On : 11 Apr 2025 15:01
Operator : SY/MD
Sample : Q1665-11
Misc : 400mL/MSVOA_L
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

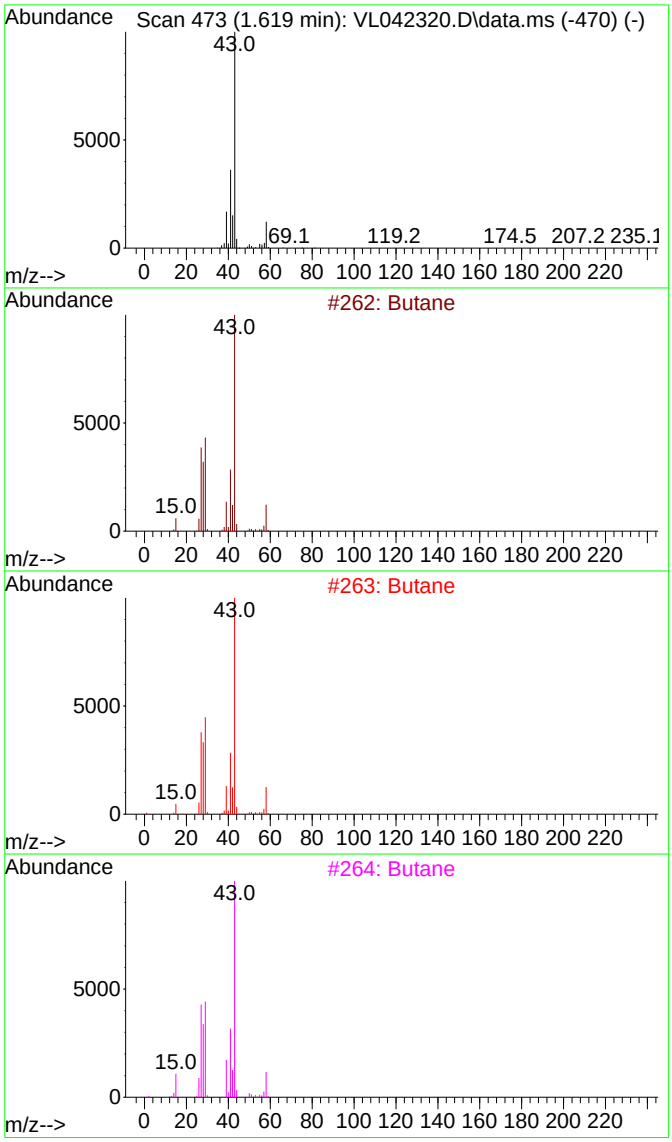
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

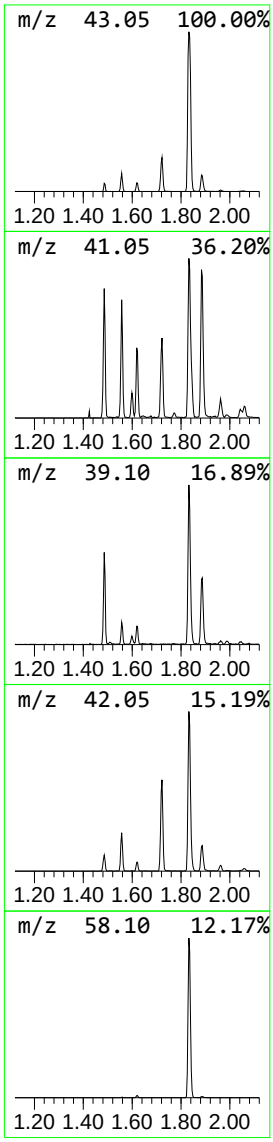
**********

Peak Number 1 Butane Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.619 | 2.21 ppbv | 152176 | Bromochloromethane | 2.787 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane | 58 | C4H10 | 000106-97-8 | 80 |
| 2 | Butane | 58 | C4H10 | 000106-97-8 | 80 |
| 3 | Butane | 58 | C4H10 | 000106-97-8 | 72 |
| 4 | Butane | 58 | C4H10 | 000106-97-8 | 72 |
| 5 | Isopropylsulfonyl chloride | 142 | C3H7ClO2S | 010147-37-2 | 9 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042320.D
Acq On : 11 Apr 2025 15:01
Operator : SY/MD
Sample : Q1665-11
Misc : 400mL/MSVOA_L
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

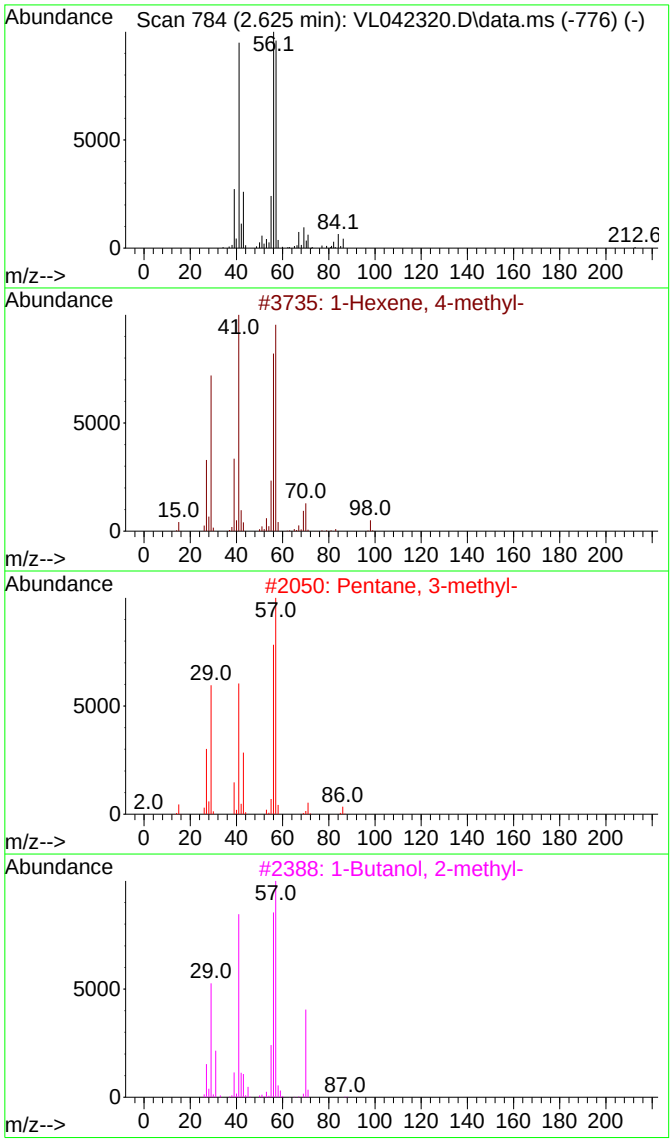
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

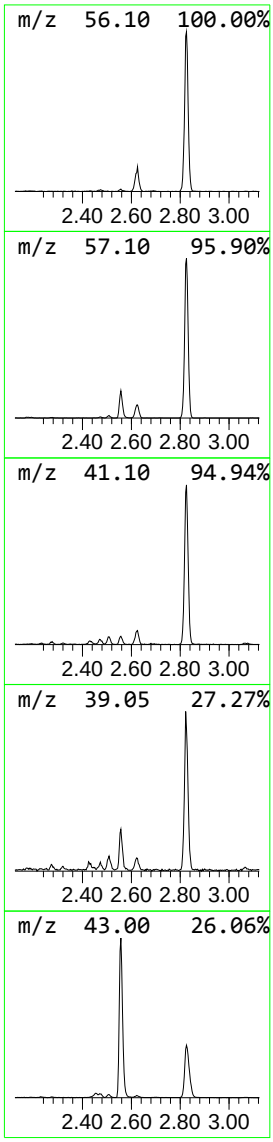
**********

Peak Number 2 1-Hexene, 4-methyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.625 | 1.27 ppbv | 87301 | Bromochloromethane | 2.787 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Hexene, 4-methyl- | 98 | C7H14 | 003769-23-1 | 72 |
| 2 | Pentane, 3-methyl- | 86 | C6H14 | 000096-14-0 | 59 |
| 3 | 1-Butanol, 2-methyl- | 88 | C5H12O | 000137-32-6 | 56 |
| 4 | 1-Hexene, 4-methyl- | 98 | C7H14 | 003769-23-1 | 56 |
| 5 | Cyclopropane, propyl- | 84 | C6H12 | 002415-72-7 | 50 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042320.D
Acq On : 11 Apr 2025 15:01
Operator : SY/MD
Sample : Q1665-11
Misc : 400mL/MSVOA_L
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

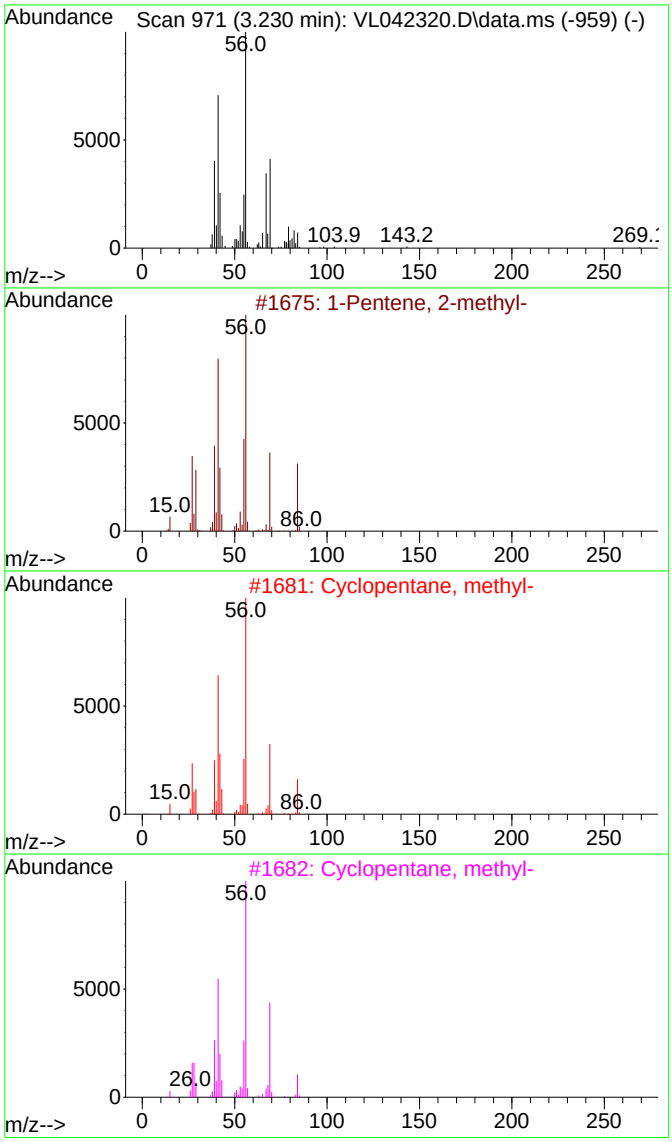
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

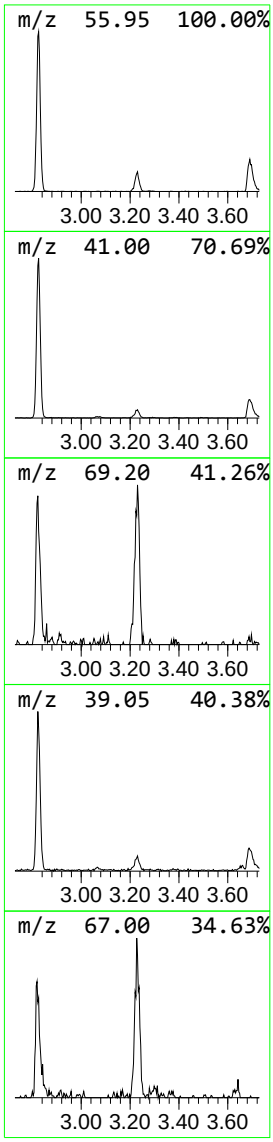
**********

Peak Number 3 unknown3.230 Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.230 | 1.27 ppbv | 87401 | Bromochloromethane | 2.787 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Pentene, 2-methyl- | 84 | C6H12 | 000763-29-1 | 47 |
| 2 | Cyclopentane, methyl- | 84 | C6H12 | 000096-37-7 | 43 |
| 3 | Cyclopentane, methyl- | 84 | C6H12 | 000096-37-7 | 38 |
| 4 | 2-Butene | 56 | C4H8 | 000107-01-7 | 38 |
| 5 | Cyclobutane | 56 | C4H8 | 000287-23-0 | 35 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042320.D
Acq On : 11 Apr 2025 15:01
Operator : SY/MD
Sample : Q1665-11
Misc : 400mL/MSVOA_L
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

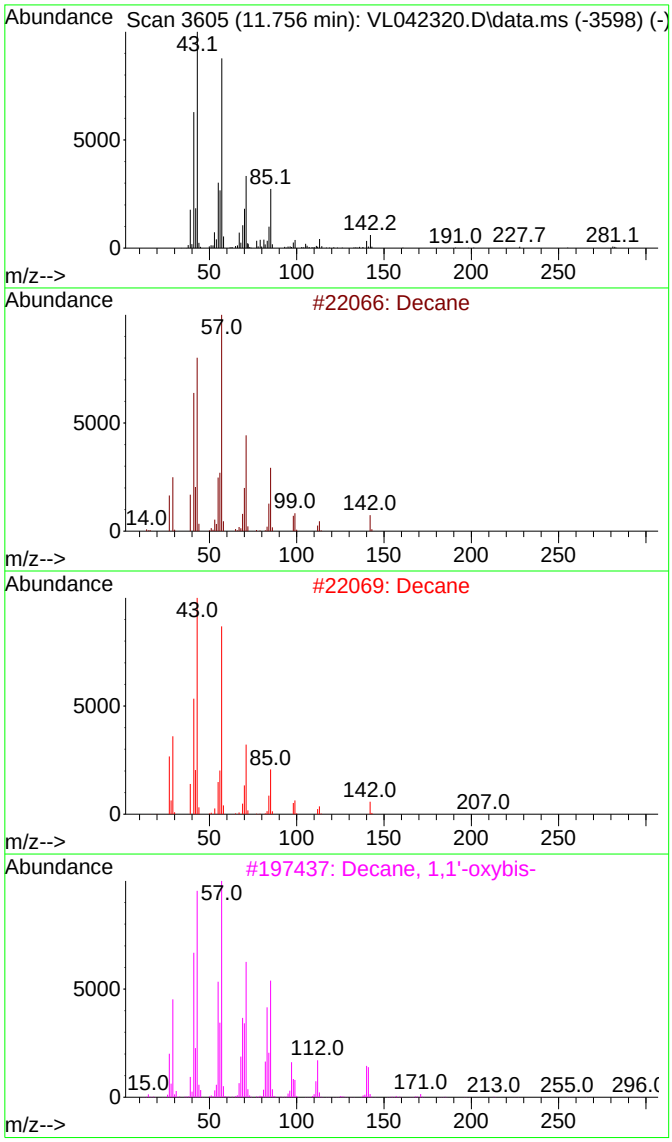
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

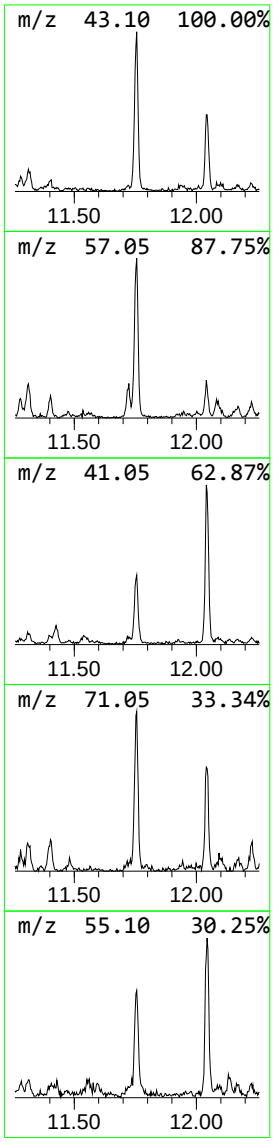
**********

Peak Number 4 Decane Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.756 | 1.75 ppbv | 233878 | Chlorobenzene-d5 | 8.882 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Decane | 142 | C10H22 | 000124-18-5 | 90 |
| 2 | Decane | 142 | C10H22 | 000124-18-5 | 90 |
| 3 | Decane, 1,1'-oxybis- | 298 | C20H42O | 002456-28-2 | 78 |
| 4 | Decane | 142 | C10H22 | 000124-18-5 | 74 |
| 5 | Hexane, 2,4-dimethyl- | 114 | C8H18 | 000589-43-5 | 59 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042320.D
Acq On : 11 Apr 2025 15:01
Operator : SY/MD
Sample : Q1665-11
Misc : 400mL/MSVOA_L
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

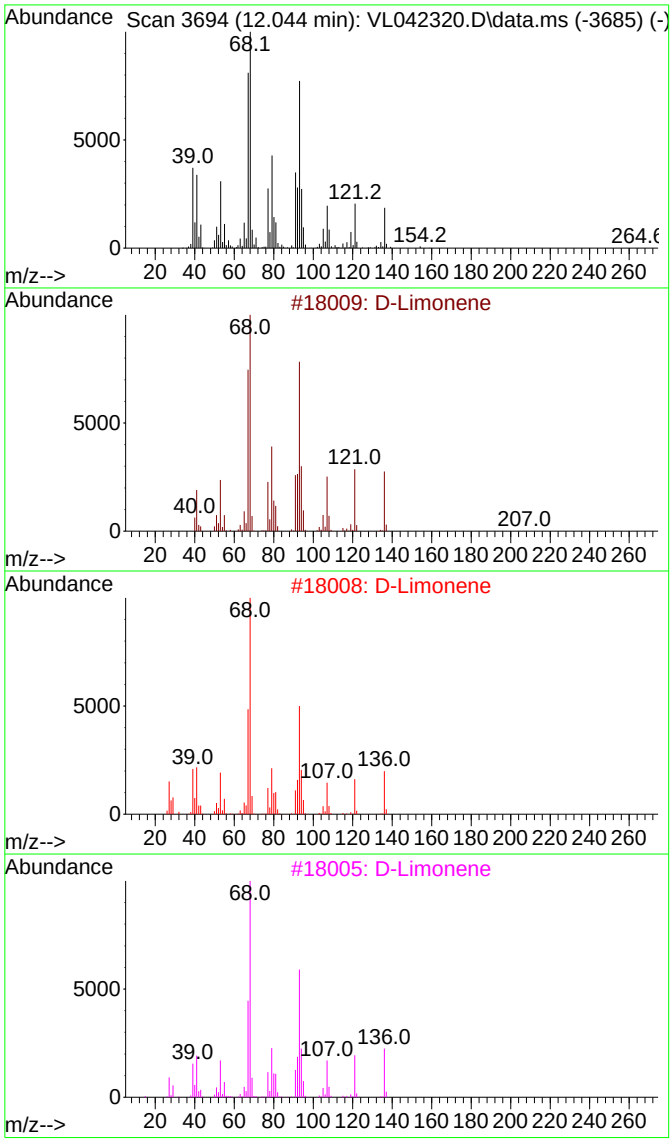
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

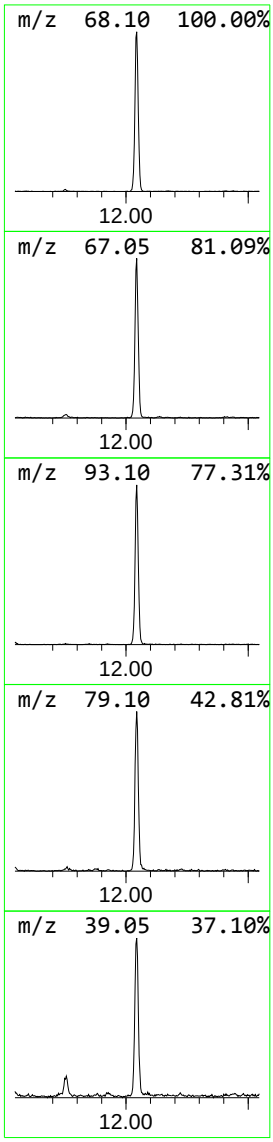
**********

Peak Number 5 D-Limonene Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.044 | 8.40 ppbv | 1120780 | Chlorobenzene-d5 | 8.882 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | D-Limonene | 136 | C10H16 | 005989-27-5 | 98 |
| 2 | D-Limonene | 136 | C10H16 | 005989-27-5 | 93 |
| 3 | D-Limonene | 136 | C10H16 | 005989-27-5 | 93 |
| 4 | Limonene | 136 | C10H16 | 000138-86-3 | 91 |
| 5 | Limonene | 136 | C10H16 | 000138-86-3 | 81 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042320.D
Acq On : 11 Apr 2025 15:01
Operator : SY/MD
Sample : Q1665-11
Misc : 400mL/MSVOA_L
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Butane | 1.619 | 2.2 | ppbv | 152176 | 1 | 2.787 | 689399 | 10.0 |
| 1-Hexene, 4-met... | 2.625 | 1.3 | ppbv | 87301 | 1 | 2.787 | 689399 | 10.0 |
| unknown3.230 | 3.230 | 1.3 | ppbv | 87401 | 1 | 2.787 | 689399 | 10.0 |
| Decane | 11.756 | 1.8 | ppbv | 233878 | 3 | 8.882 | 1334860 | 10.0 |
| D-Limonene | 12.044 | 8.4 | ppbv | 1120780 | 3 | 8.882 | 1334860 | 10.0 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B10-1-3242025DL | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-11DL | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042324.D | 10 | | 04/11/25 17:10 | VL041125 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 2.10 | 10.4 | UD | 10.4 | 24.7 | ug/m3 |
| 64-17-5 | Ethanol | 1300 | 2450 | EDQ | 6.03 | 9.42 | ug/m3 |
| 74-87-3 | Chloromethane | 0.98 | 2.02 | UD | 2.02 | 10.3 | ug/m3 |
| 75-01-4 | Vinyl Chloride | 0.14 | 0.36 | UD | 0.36 | 0.77 | ug/m3 |
| 74-83-9 | Bromomethane | 1.40 | 5.44 | UD | 5.44 | 19.4 | ug/m3 |
| 75-00-3 | Chloroethane | 1.70 | 4.49 | UD | 4.49 | 13.2 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | 1.30 | 3.83 | UD | 3.83 | 14.8 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | 1.60 | 8.99 | UD | 8.99 | 28.1 | ug/m3 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 1.60 | 12.3 | UD | 12.3 | 38.3 | ug/m3 |
| 76-14-2 | Dichlorotetrafluoroethane | 0.88 | 6.15 | UD | 6.15 | 35.0 | ug/m3 |
| 593-60-2 | Bromoethene | 1.20 | 5.25 | UD | 5.25 | 21.9 | ug/m3 |
| 75-65-0 | tert-Butyl alcohol | 1.90 | 5.76 | UD | 5.76 | 15.2 | ug/m3 |
| 142-82-5 | Heptane | 1.10 | 4.51 | UD | 4.51 | 20.5 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | 48.3 | 119 | D | 1.70 | 12.3 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethene | 1.40 | 5.55 | UD | 5.55 | 19.8 | ug/m3 |
| 67-64-1 | Acetone | 130 | 309 | D | 5.70 | 11.9 | ug/m3 |
| 75-15-0 | Carbon Disulfide | 1.60 | 4.98 | UD | 4.98 | 15.6 | ug/m3 |
| 1634-04-4 | Methyl tert-Butyl Ether | 1.20 | 4.33 | UD | 4.33 | 18.0 | ug/m3 |
| 75-09-2 | Methylene Chloride | 16.4 | 57.0 | D | 6.60 | 17.4 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethene | 1.90 | 7.53 | UD | 7.53 | 19.8 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | 1.30 | 5.26 | UD | 5.26 | 20.2 | ug/m3 |
| 110-82-7 | Cyclohexane | 2.20 | 7.57 | UD | 7.57 | 17.2 | ug/m3 |
| 78-93-3 | 2-Butanone | 10.0 | 29.5 | D | 3.54 | 14.8 | ug/m3 |
| 56-23-5 | Carbon Tetrachloride | 0.11 | 0.69 | UD | 0.69 | 1.89 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.89 | 3.53 | UD | 3.53 | 19.8 | ug/m3 |
| 67-66-3 | Chloroform | 1.00 | 4.88 | JD | 4.05 | 24.4 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.10 | 0.55 | UD | 0.55 | 1.64 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | 1.00 | 4.67 | UD | 4.67 | 23.4 | ug/m3 |
| 71-43-2 | Benzene | 0.87 | 2.78 | UD | 2.78 | 16.0 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | 0.91 | 3.68 | UD | 3.68 | 20.2 | ug/m3 |
| 79-01-6 | Trichloroethene | 0.17 | 0.91 | UD | 0.91 | 1.61 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | 1.10 | 5.08 | UD | 5.08 | 23.1 | ug/m3 |
| 75-27-4 | Bromodichloromethane | 0.77 | 5.16 | UD | 5.16 | 33.5 | ug/m3 |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.93 | 3.81 | UD | 3.81 | 20.5 | ug/m3 |
| 108-88-3 | Toluene | 1.10 | 4.15 | UD | 4.15 | 18.8 | ug/m3 |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B10-1-3242025DL | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-11DL | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042324.D | 10 | | 04/11/25 17:10 | VL041125 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.60 | 2.72 | UD | 2.72 | 22.7 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.64 | 2.91 | UD | 2.91 | 22.7 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.71 | 3.87 | UD | 3.87 | 27.3 | ug/m3 |
| 124-48-1 | Dibromochloromethane | 0.66 | 5.62 | UD | 5.62 | 42.6 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane | 0.72 | 5.53 | UD | 5.53 | 7.69 | ug/m3 |
| 127-18-4 | Tetrachloroethene | 0.15 | 1.02 | UD | 1.02 | 2.03 | ug/m3 |
| 108-90-7 | Chlorobenzene | 0.76 | 3.50 | UD | 3.50 | 23.0 | ug/m3 |
| 100-41-4 | Ethyl Benzene | 1.20 | 5.21 | UD | 5.21 | 21.7 | ug/m3 |
| 179601-23-1 | m/p-Xylene | 2.10 | 9.12 | UD | 9.12 | 43.4 | ug/m3 |
| 95-47-6 | o-Xylene | 1.20 | 5.21 | UD | 5.21 | 21.7 | ug/m3 |
| 100-42-5 | Styrene | 1.10 | 4.68 | UD | 4.68 | 21.3 | ug/m3 |
| 75-25-2 | Bromoform | 0.57 | 5.89 | UD | 5.89 | 51.7 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.11 | 0.76 | UDQ | 0.76 | 2.06 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | 1.10 | 5.70 | UD | 5.70 | 25.9 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 1.10 | 5.41 | UD | 5.41 | 24.6 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.78 | 3.83 | UD | 3.83 | 24.6 | ug/m3 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.80 | 4.81 | UD | 4.81 | 30.1 | ug/m3 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.53 | 3.19 | UD | 3.19 | 30.1 | ug/m3 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.75 | 4.51 | UDQ | 4.51 | 30.1 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.85 | 6.31 | UD | 6.31 | 37.1 | ug/m3 |
| 87-68-3 | Hexachloro-1,3-Butadiene | 0.85 | 9.07 | UD | 9.07 | 53.3 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | 1.30 | 2.88 | UD | 2.88 | 11.1 | ug/m3 |
| 91-20-3 | Naphthalene | 0.75 | 3.93 | UD | 3.93 | 5.24 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | 1.20 | 5.90 | UD | 5.90 | 24.6 | ug/m3 |
| 110-54-3 | Hexane | 4.40 | 15.5 | JD | 3.88 | 17.6 | ug/m3 |
| 107-05-1 | Allyl Chloride | 1.50 | 4.70 | UD | 4.70 | 15.7 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | 2.10 | 7.57 | UD | 7.57 | 18.0 | ug/m3 |
| 80-62-6 | Methyl Methacrylate | 0.86 | 3.52 | UD | 3.52 | 20.5 | ug/m3 |
| **SURROGATES** | | | | | | | |
| 460-00-4 | 1-Bromo-4-Fluorobenzene | 9.20 | | | 70 (65) - 130 (135) | 92% | SPK: 10 |
| **INTERNAL STANDARDS** | | | | | | | |
| 74-97-5 | Bromochloromethane | 177000 | | 2.793 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 398000 | | 3.968 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 326000 | | 8.888 | | | |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B10-1-3242025DL | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-11DL | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042324.D | 10 | | 04/11/25 17:10 | VL041125 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042324.D
Acq On : 11 Apr 2025 17:10
Operator : SY/MD
Sample : Q1665-11DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 11 23:03:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025DL

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 2.793 | 49 | 176603 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.968 | 114 | 398133 | 10.000 | ppbv | | 0.02 |
| 55) Chlorobenzene-d5 | 8.888 | 117 | 325777 | 10.000 | ppbv | | 0.01 |
| System Monitoring Compounds | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.383 | 95 | 246592 | 9.217 | ppbv | | 0.01 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 92.200% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 9) Propene | 1.489 | 41 | 4857 | 0.398 | ppbv | | 87 |
| 13) Ethanol | 1.725 | 45 | 151755 | 131.481 | ppbv | | 81 |
| 15) Acetone | 1.839 | 43 | 316091 | 12.798 | ppbv | | 96 |
| 19) Isopropyl Alcohol | 1.890 | 45 | 67257 | 4.826 | ppbv | # | 1 |
| 20) Methylene Chloride | 2.065 | 84 | 15039 | 1.635 | ppbv | | 90 |
| 26) Hexane | 2.832 | 57 | 10875 | 0.439 | ppbv | # | 41 |
| 29) Chloroform | 2.855 | 83 | 3754m | 0.104 | ppbv | | |
| 34) 2-Butanone | 2.564 | 43 | 28789 | 0.997 | ppbv | | 97 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

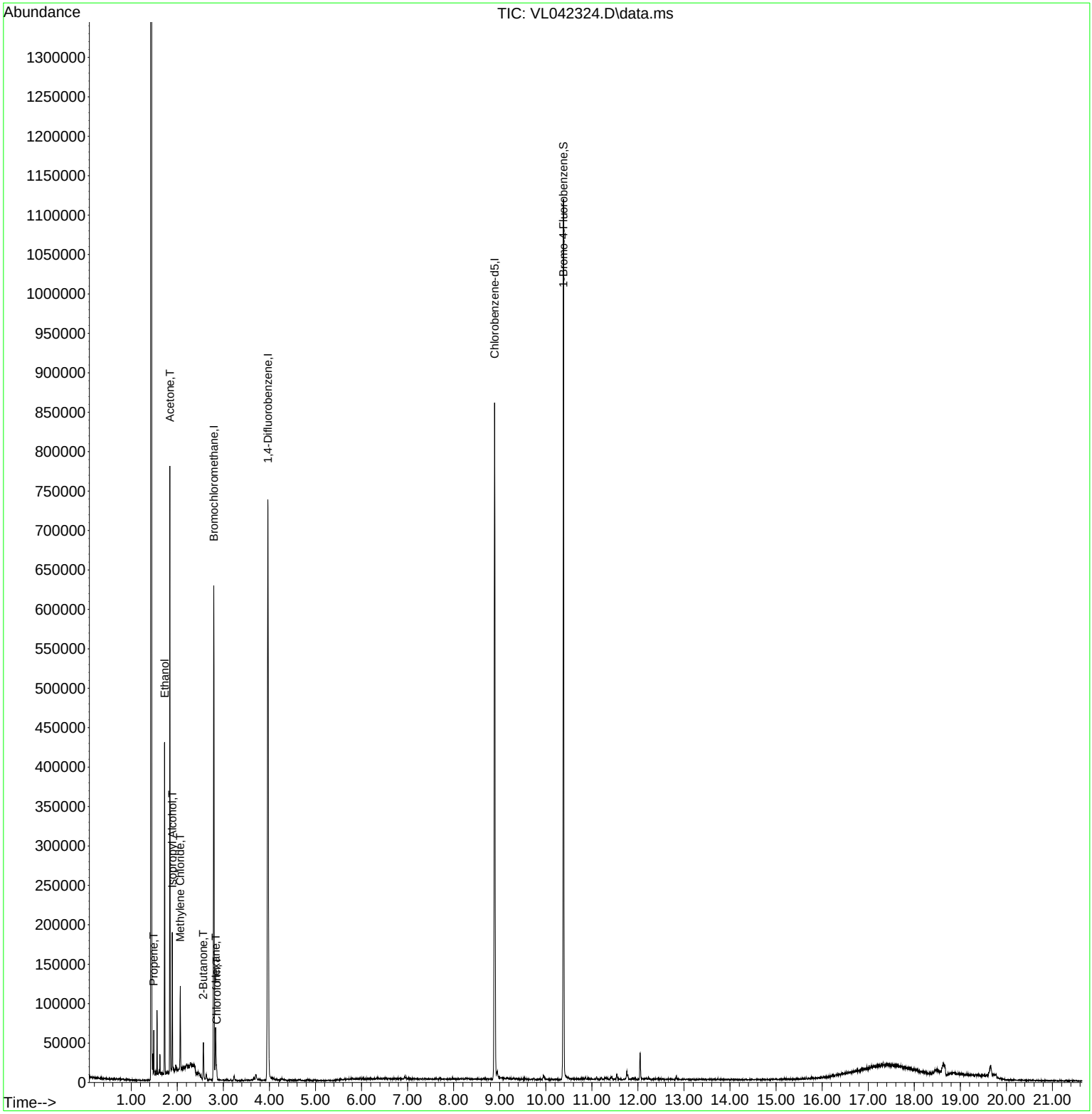
Quantitation Report (QT Reviewed)

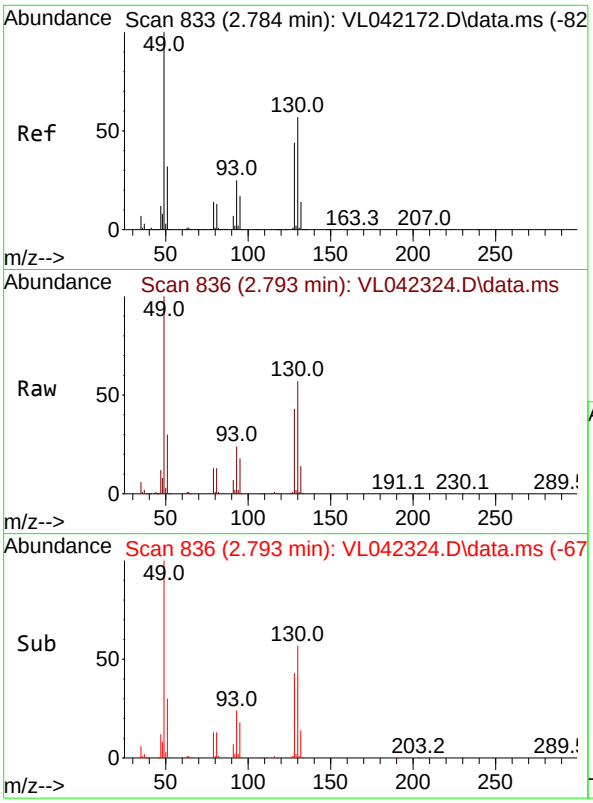
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042324.D
Acq On : 11 Apr 2025 17:10
Operator : SY/MD
Sample : Q1665-11DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 11 23:03:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025DL

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

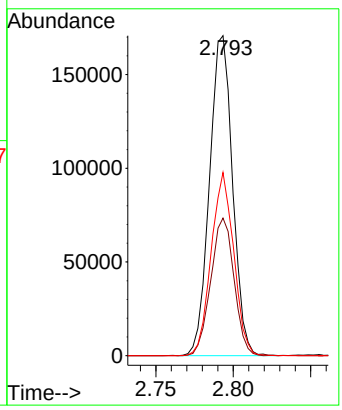





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 8
Delta R.T. 0.009 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

Tgt Ion: 49 Resp: 17660

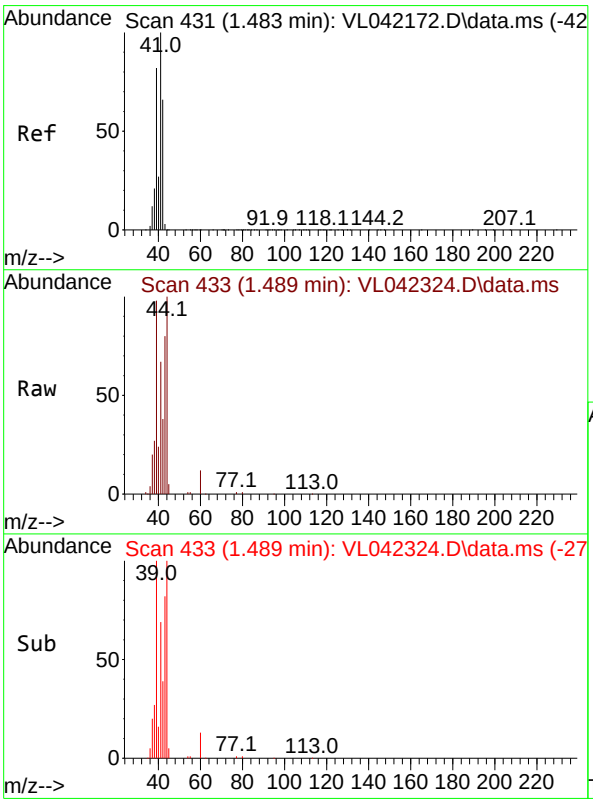
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 43.4 | 22.9 | 68.5 |
| 130 | 56.0 | 28.8 | 86.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025DL

**Manual Integrations**
**APPROVED**

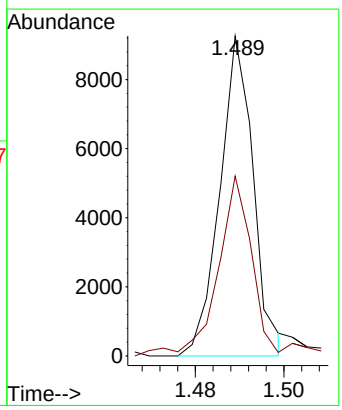
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

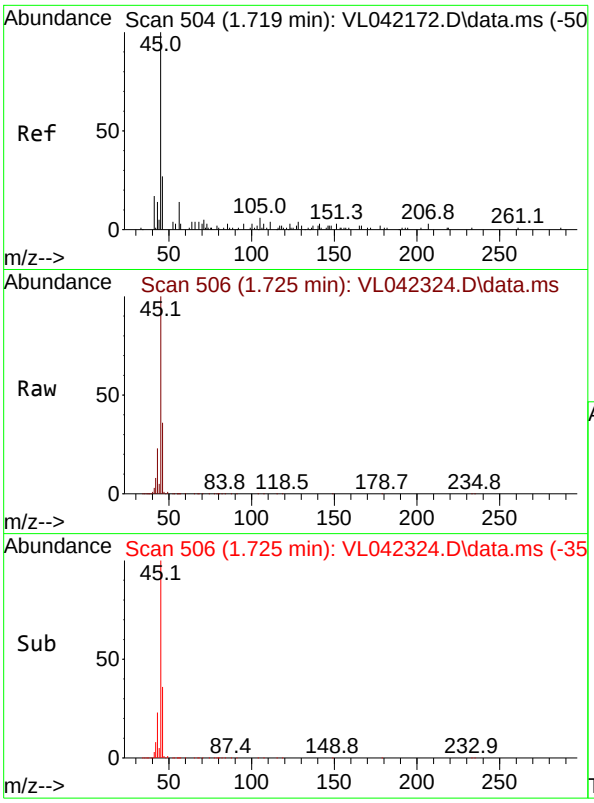



#9
Propene
Concen: 0.398 ppbv
RT: 1.489 min Scan# 433
Delta R.T. 0.006 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

Tgt Ion: 41 Resp: 4857

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 59.0 | 55.4 | 83.2 |

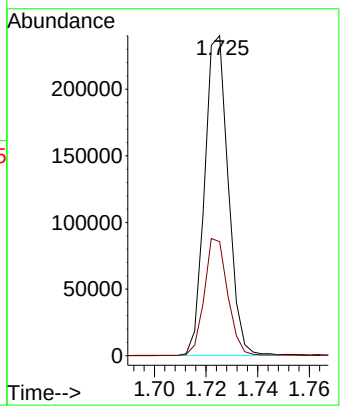





#13
Ethanol
Concen: 131.481 ppbv
RT: 1.725 min Scan# 5
Delta R.T. 0.006 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

Tgt Ion: 45 Resp: 15175

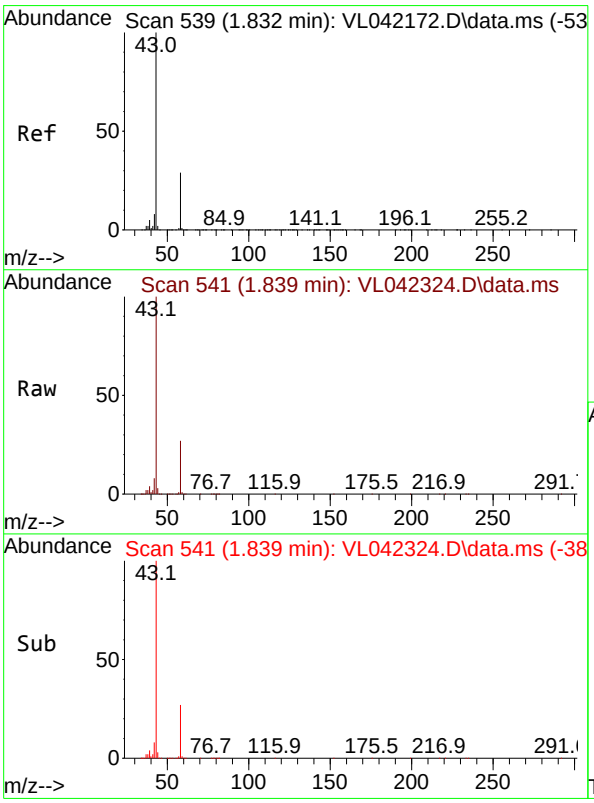
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 37.0 | 20.2 | 80.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025DL

**Manual Integrations**
**APPROVED**

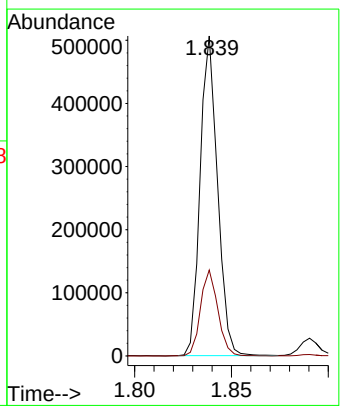
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

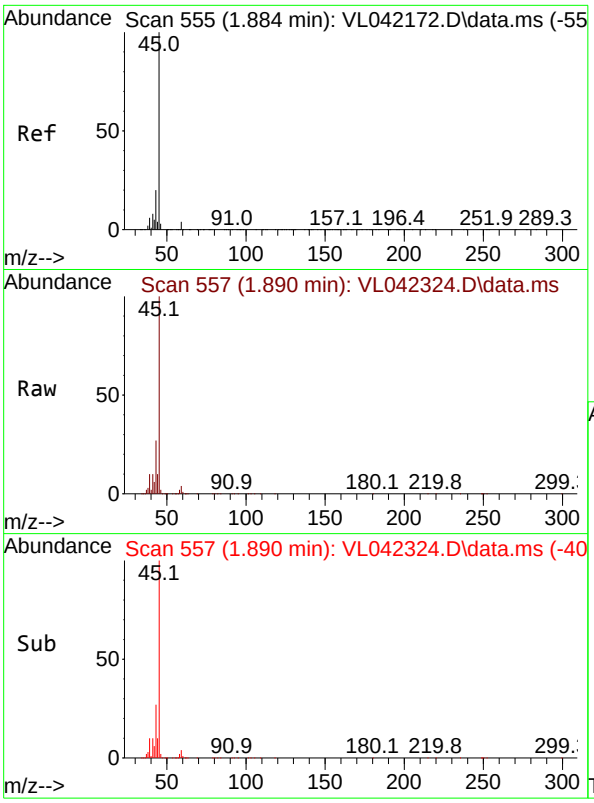



#15
Acetone
Concen: 12.798 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.006 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

Tgt Ion: 43 Resp: 316091

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 26.9 | 23.2 | 34.8 |

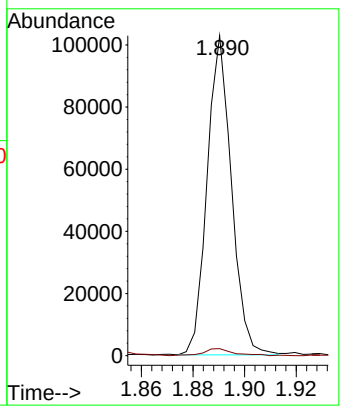





#19
Isopropyl Alcohol
Concen: 4.826 ppbv
RT: 1.890 min Scan# 5
Delta R.T. 0.006 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

Tgt Ion: 45 Resp: 6725

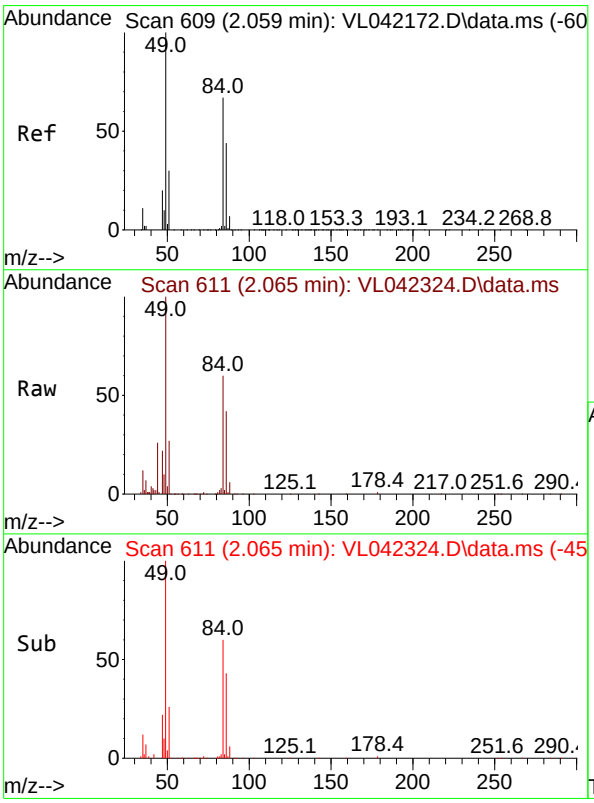
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 126.4 | 36.9 | 55.3# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025DL

**Manual Integrations**
**APPROVED**

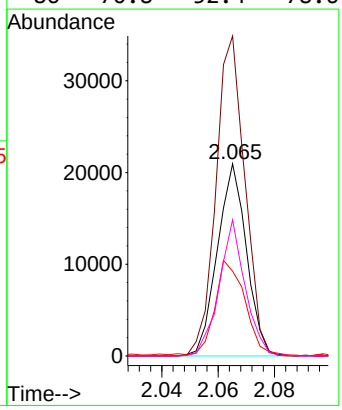
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

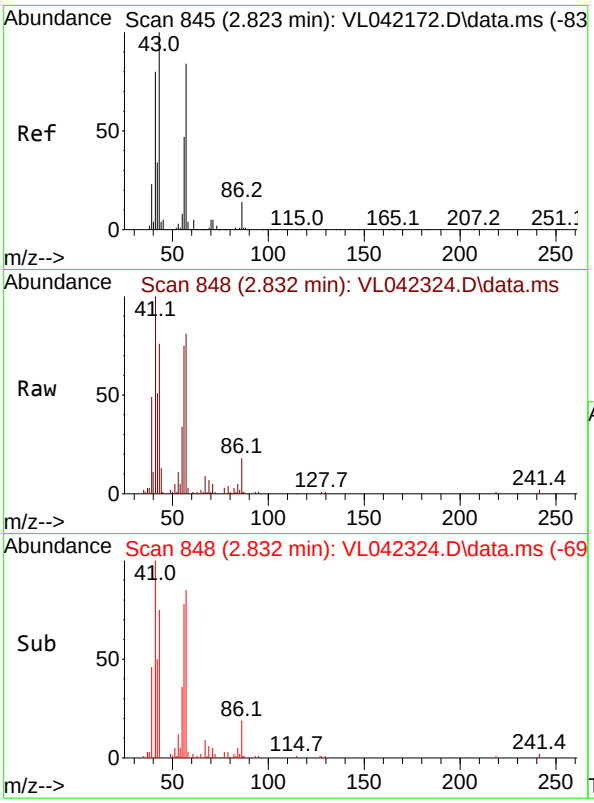



#20
Methylene Chloride
Concen: 1.635 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

Tgt Ion: 84 Resp: 15039

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 166.5 | 120.2 | 180.4 |
| 51 | 42.7 | 37.4 | 56.0 |
| 86 | 70.8 | 52.4 | 78.6 |

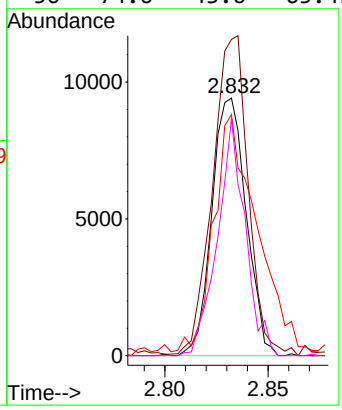





#26
Hexane
Concen: 0.439 ppbv
RT: 2.832 min Scan# 84
Delta R.T. 0.009 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

Tgt Ion: 57 Resp: 1087

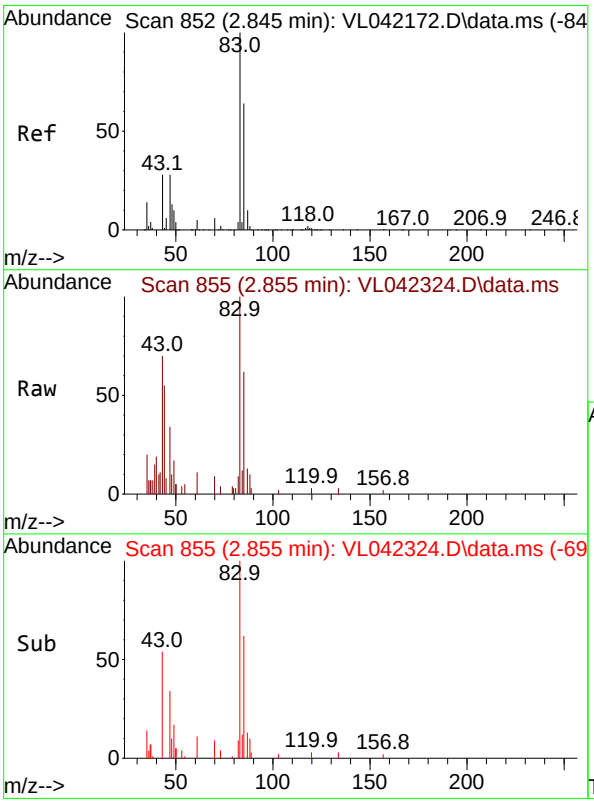
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 127.0 | 76.6 | 114.8# |
| 43 | 125.5 | 207.8 | 311.8# |
| 56 | 74.6 | 43.6 | 65.4# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025DL

**Manual Integrations**
**APPROVED**

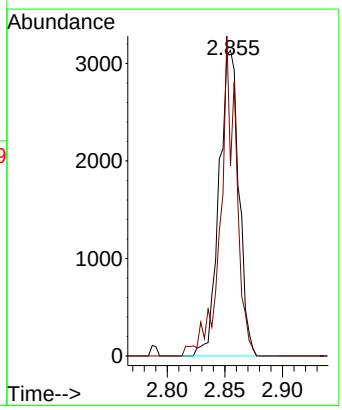
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

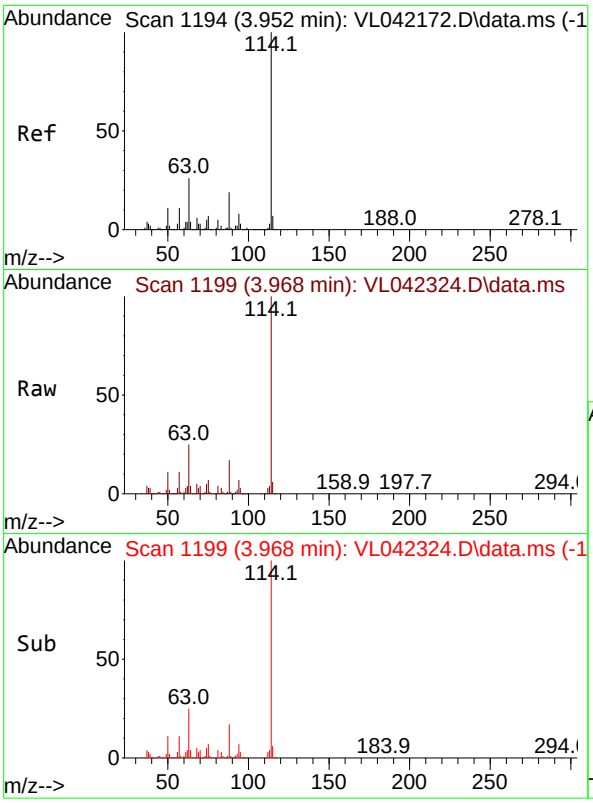



#29
Chloroform
Concen: 0.104 ppbv m
RT: 2.855 min Scan# 855
Delta R.T. 0.009 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

Tgt Ion: 83 Resp: 3754

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.2 | 51.4 | 77.2 |

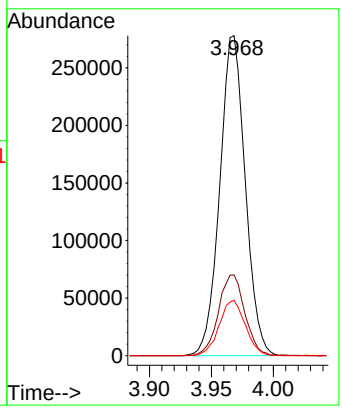





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.968 min Scan# 1
Delta R.T. 0.016 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

Tgt Ion:114 Resp: 39813

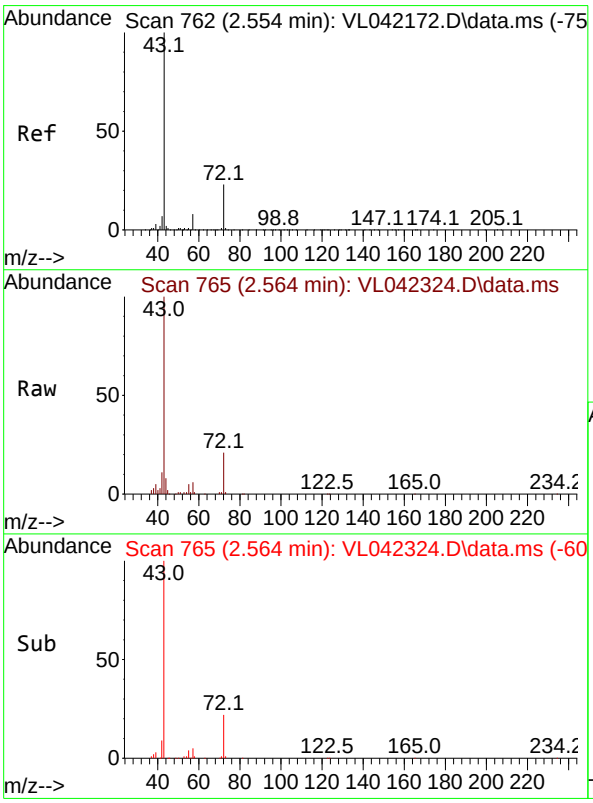
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 26.2 | 20.7 | 31.1 |
| 88 | 17.7 | 15.0 | 22.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025DL

**Manual Integrations**
**APPROVED**

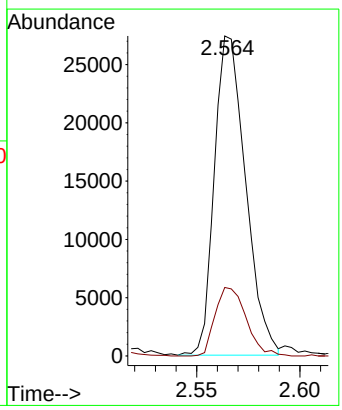
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

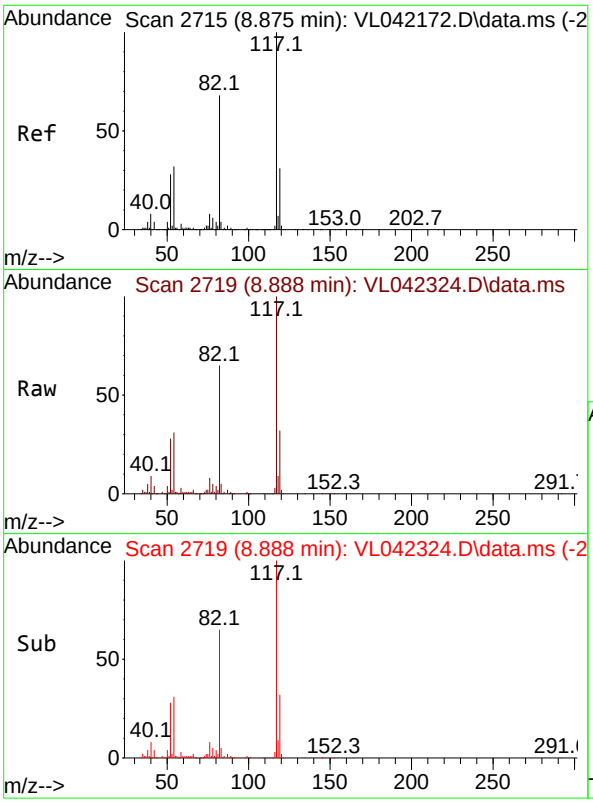



#34
2-Butanone
Concen: 0.997 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.009 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

Tgt Ion: 43 Resp: 28789

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 21.4 | 18.2 | 27.2 |

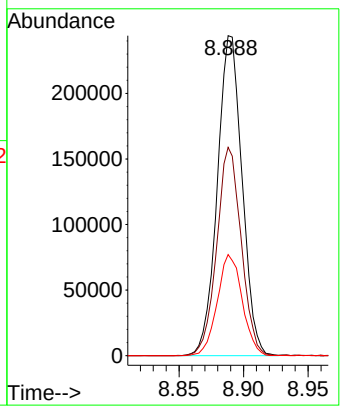





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2
Delta R.T. 0.013 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

Tgt Ion:117 Resp: 32577

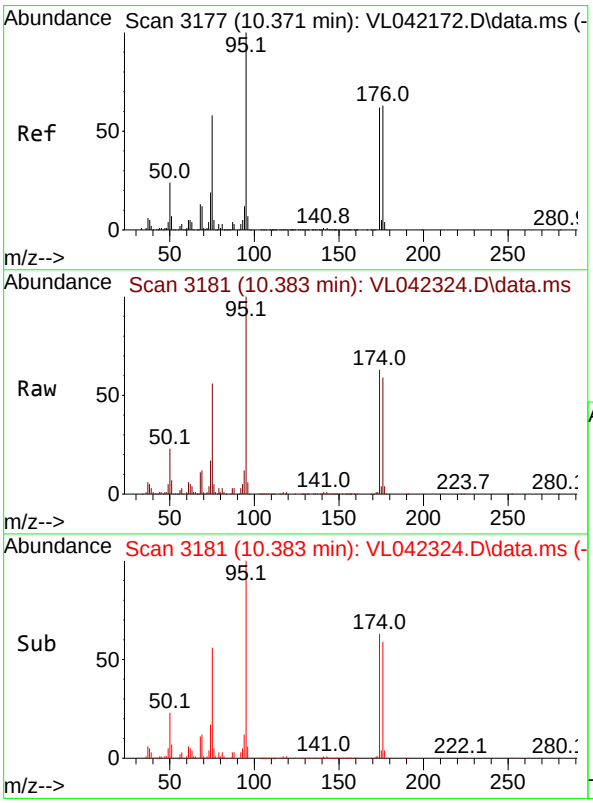
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 64.5 | 55.8 | 83.6 |
| 119 | 31.8 | 25.5 | 38.3 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025DL

**Manual Integrations**
**APPROVED**

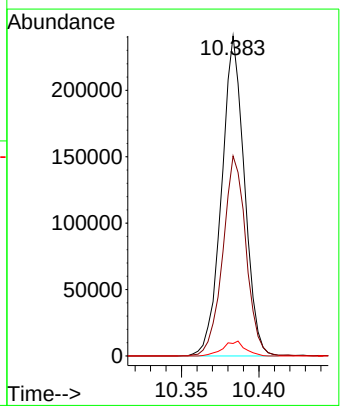
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025




#68
1-Bromo-4-Fluorobenzene
Concen: 9.217 ppbv
RT: 10.383 min Scan# 3181
Delta R.T. 0.013 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

Tgt Ion: 95 Resp: 246592

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 63.8 | 50.6 | 76.0 |
| 175 | 4.5 | 3.8 | 5.6 |



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B2-6-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-12 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042421.D | 1 | | 04/28/25 12:17 | VL042825 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.46 | 2.27 | J | 1.04 | 2.47 | ug/m3 |
| 64-17-5 | Ethanol | 72.5 | 137 | EQ | 0.60 | 0.94 | ug/m3 |
| 74-87-3 | Chloromethane | 0.55 | 1.14 | | 0.21 | 1.03 | ug/m3 |
| 75-01-4 | Vinyl Chloride | 0.010 | 0.030 | U | 0.030 | 0.080 | ug/m3 |
| 74-83-9 | Bromomethane | 0.14 | 0.54 | U | 0.54 | 1.94 | ug/m3 |
| 75-00-3 | Chloroethane | 0.17 | 0.45 | U | 0.45 | 1.32 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | 0.13 | 0.38 | U | 0.38 | 1.47 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | 0.23 | 1.29 | J | 0.90 | 2.81 | ug/m3 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.16 | 1.23 | U | 1.23 | 3.83 | ug/m3 |
| 76-14-2 | Dichlorotetrafluoroethane | 0.090 | 0.63 | U | 0.63 | 3.49 | ug/m3 |
| 593-60-2 | Bromoethene | 0.12 | 0.52 | U | 0.52 | 2.19 | ug/m3 |
| 75-65-0 | tert-Butyl alcohol | 1.90 | 5.76 | | 0.58 | 1.52 | ug/m3 |
| 142-82-5 | Heptane | 0.35 | 1.43 | J | 0.45 | 2.05 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | 61.7 | 152 | E | 0.17 | 1.23 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethene | 0.14 | 0.56 | U | 0.56 | 1.98 | ug/m3 |
| 67-64-1 | Acetone | 0.24 | 0.57 | U | 0.57 | 1.19 | ug/m3 |
| 75-15-0 | Carbon Disulfide | 0.16 | 0.50 | U | 0.50 | 1.56 | ug/m3 |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.12 | 0.43 | U | 0.43 | 1.80 | ug/m3 |
| 75-09-2 | Methylene Chloride | 4.40 | 15.3 | | 0.66 | 1.74 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.19 | 0.75 | U | 0.75 | 1.98 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | 0.13 | 0.53 | U | 0.53 | 2.02 | ug/m3 |
| 110-82-7 | Cyclohexane | 0.22 | 0.76 | U | 0.76 | 1.72 | ug/m3 |
| 78-93-3 | 2-Butanone | 0.79 | 2.33 | | 0.35 | 1.47 | ug/m3 |
| 56-23-5 | Carbon Tetrachloride | 0.070 | 0.44 | | 0.060 | 0.19 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.090 | 0.36 | U | 0.36 | 1.98 | ug/m3 |
| 67-66-3 | Chloroform | 0.080 | 0.39 | U | 0.39 | 2.44 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.010 | 0.050 | U | 0.050 | 0.16 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | 0.21 | 0.98 | J | 0.47 | 2.34 | ug/m3 |
| 71-43-2 | Benzene | 0.37 | 1.18 | J | 0.29 | 1.60 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | 0.090 | 0.36 | U | 0.36 | 2.02 | ug/m3 |
| 79-01-6 | Trichloroethene | 0.020 | 0.11 | U | 0.11 | 0.16 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | 0.11 | 0.51 | U | 0.51 | 2.31 | ug/m3 |
| 75-27-4 | Bromodichloromethane | 0.080 | 0.54 | U | 0.54 | 3.35 | ug/m3 |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.00 | 4.10 | | 0.37 | 2.05 | ug/m3 |
| 108-88-3 | Toluene | 1.40 | 5.28 | | 0.41 | 1.88 | ug/m3 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B2-6-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-12 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042421.D | 1 | | 04/28/25 12:17 | VL042825 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.060 | 0.27 | U | 0.27 | 2.27 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.060 | 0.27 | U | 0.27 | 2.27 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.070 | 0.38 | U | 0.38 | 2.73 | ug/m3 |
| 124-48-1 | Dibromochloromethane | 0.070 | 0.60 | U | 0.60 | 4.26 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane | 0.070 | 0.54 | U | 0.54 | 0.77 | ug/m3 |
| 127-18-4 | Tetrachloroethene | 0.020 | 0.14 | U | 0.14 | 0.20 | ug/m3 |
| 108-90-7 | Chlorobenzene | 0.080 | 0.37 | U | 0.37 | 2.30 | ug/m3 |
| 100-41-4 | Ethyl Benzene | 0.50 | 2.17 | | 0.52 | 2.17 | ug/m3 |
| 179601-23-1 | m/p-Xylene | 0.82 | 3.56 | J | 0.91 | 4.34 | ug/m3 |
| 95-47-6 | o-Xylene | 0.34 | 1.48 | J | 0.52 | 2.17 | ug/m3 |
| 100-42-5 | Styrene | 0.45 | 1.92 | J | 0.47 | 2.13 | ug/m3 |
| 75-25-2 | Bromoform | 0.060 | 0.62 | U | 0.62 | 5.17 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.010 | 0.070 | U | 0.070 | 0.21 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | 0.11 | 0.57 | U | 0.57 | 2.59 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.20 | 0.98 | J | 0.54 | 2.46 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.66 | 3.24 | | 0.39 | 2.46 | ug/m3 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.080 | 0.48 | U | 0.48 | 3.01 | ug/m3 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.050 | 0.30 | U | 0.30 | 3.01 | ug/m3 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.080 | 0.48 | U | 0.48 | 3.01 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.090 | 0.67 | U | 0.67 | 3.71 | ug/m3 |
| 87-68-3 | Hexachloro-1,3-Butadiene | 0.090 | 0.96 | U | 0.96 | 5.33 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | 0.13 | 0.29 | U | 0.29 | 1.11 | ug/m3 |
| 91-20-3 | Naphthalene | 0.080 | 0.42 | U | 0.42 | 0.52 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | 0.16 | 0.79 | J | 0.59 | 2.46 | ug/m3 |
| 110-54-3 | Hexane | 4.90 | 17.3 | | 0.39 | 1.76 | ug/m3 |
| 107-05-1 | Allyl Chloride | 0.15 | 0.47 | U | 0.47 | 1.57 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | 0.21 | 0.76 | U | 0.76 | 1.80 | ug/m3 |
| 80-62-6 | Methyl Methacrylate | 0.090 | 0.37 | U | 0.37 | 2.05 | ug/m3 |
| **SURROGATES** | | | | | | | |
| 460-00-4 | 1-Bromo-4-Fluorobenzene | 10.5 | | | 70 (65) - 130 (135) | 105% | SPK: 10 |
| **INTERNAL STANDARDS** | | | | | | | |
| 74-97-5 | Bromochloromethane | 141000 | | 2.781 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 398000 | | 3.953 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 341000 | | 8.875 | | | |
| **TENTITIVE IDENTIFIED COMPOUNDS** | | | | | | | |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B2-6-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-12 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042421.D | 1 | | 04/28/25 12:17 | VL042825 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 75-45-6 | Chlorodifluoromethane | 0.24 | | J | | 1.47 | ppbv |
| 115-07-1 | Propene | 1.10 | | J | | 1.48 | ppbv |
| 000106-97-8 | Butane | 2.40 | | J | | 1.62 | ppbv |
| 000066-25-1 | Hexanal | 1.60 | | J | | 7.68 | ppbv |
| 98-82-8 | Isopropylbenzene | 0.12 | | J | | 10.5 | ppbv |
| 103-65-1 | n-propylbenzene | 0.16 | | J | | 11.0 | ppbv |
| 005989-27-5 | D-Limonene | 2.00 | | J | | 12.0 | ppbv |
| 001120-21-4 | Undecane | 1.30 | | J | | 12.8 | ppbv |
| 000103-09-3 | Acetic acid, 2-ethylhexyl ester | 4.80 | | J | | 13.1 | ppbv |
| 013450-73-2 | 11H-Dibenzo[b,e][1,4]diazepin-11-o | 2.30 | | J | | 13.4 | ppbv |
| 062016-30-2 | Octane, 2,3,3-trimethyl- | 1.50 | | J | | 13.7 | ppbv |
| 000629-50-5 | Tridecane | 1.40 | | J | | 14.5 | ppbv |

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Quantitation Report (LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042421.D
Acq On : 28 Apr 2025 12:17
Operator : SY/MD
Sample : Q1665-12
Misc : 400mL/MSVOA_L
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 29 01:35:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-6-3242025

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 2.781 | 49 | 140992 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.953 | 114 | 398020 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.875 | 117 | 341014 | 10.000 | ppbv | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.371 | 95 | 295244 | 10.536 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 105.400% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.496 | 85 | 11407 | 0.458 | ppbv | | 97 |
| 3) Chlorodifluoromethane | 1.473 | 51 | 5728m | 0.241 | ppbv | | |
| 4) Chloromethane | 1.532 | 50 | 5396 | 0.547 | ppbv | | 89 |
| 9) Propene | 1.483 | 41 | 12113m | 1.121 | ppbv | | |
| 10) Heptane | 4.972 | 43 | 10567m | 0.348 | ppbv | | |
| 11) Trichlorofluoromethane | 1.875 | 101 | 5389 | 0.227 | ppbv | | 95 |
| 13) Ethanol | 1.719 | 45 | 124500 | 72.509 | ppbv | | 76 |
| 17) tert-Butyl alcohol | 2.040 | 59 | 53033 | 1.854 | ppbv | # | 71 |
| 19) Isopropyl Alcohol | 1.881 | 45 | 791511 | 61.732 | ppbv | # | 34 |
| 20) Methylene Chloride | 2.059 | 84 | 39463 | 4.366 | ppbv | # | 77 |
| 26) Hexane | 2.820 | 57 | 111715 | 4.851 | ppbv | # | 33 |
| 30) Cyclohexane | 3.852 | 84 | 3883m | 0.209 | ppbv | | |
| 34) 2-Butanone | 2.554 | 43 | 25006 | 0.794 | ppbv | | 99 |
| 35) Carbon Tetrachloride | 3.755 | 117 | 2578m | 0.072 | ppbv | | |
| 36) Benzene | 3.645 | 78 | 15779m | 0.368 | ppbv | | |
| 41) Tetrahydrofuran | 3.059 | 42 | 2097m | 0.114 | ppbv | | |
| 44) 2,2,4-Trimethylpentane | 4.632 | 57 | 15729 | 0.212 | ppbv | # | 65 |
| 50) 4-Methyl-2-Pentanone | 5.749 | 43 | 54716 | 1.046 | ppbv | | 96 |
| 53) Toluene | 6.921 | 91 | 71766 | 1.393 | ppbv | | 99 |
| 58) Ethyl Benzene | 9.345 | 91 | 33666 | 0.498 | ppbv | | 96 |
| 59) m/p-Xylene | 9.526 | 91 | 44376m | 0.815 | ppbv | | |
| 60) o-Xylene | 9.957 | 91 | 18390 | 0.336 | ppbv | | 97 |
| 61) Styrene | 9.863 | 104 | 11677 | 0.446 | ppbv | | 91 |
| 62) Isopropylbenzene | 10.529 | 105 | 9651 | 0.120 | ppbv | | 98 |
| 64) n-propylbenzene | 10.986 | 120 | 3222m | 0.159 | ppbv | | |
| 72) 4-Ethyltoluene | 11.118 | 105 | 10909 | 0.163 | ppbv | # | 56 |
| 73) 1,3,5-Trimethylbenzene | 11.199 | 105 | 11852 | 0.200 | ppbv | | 92 |
| 74) 1,2,4-Trimethylbenzene | 11.533 | 105 | 45414 | 0.657 | ppbv | # | 59 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

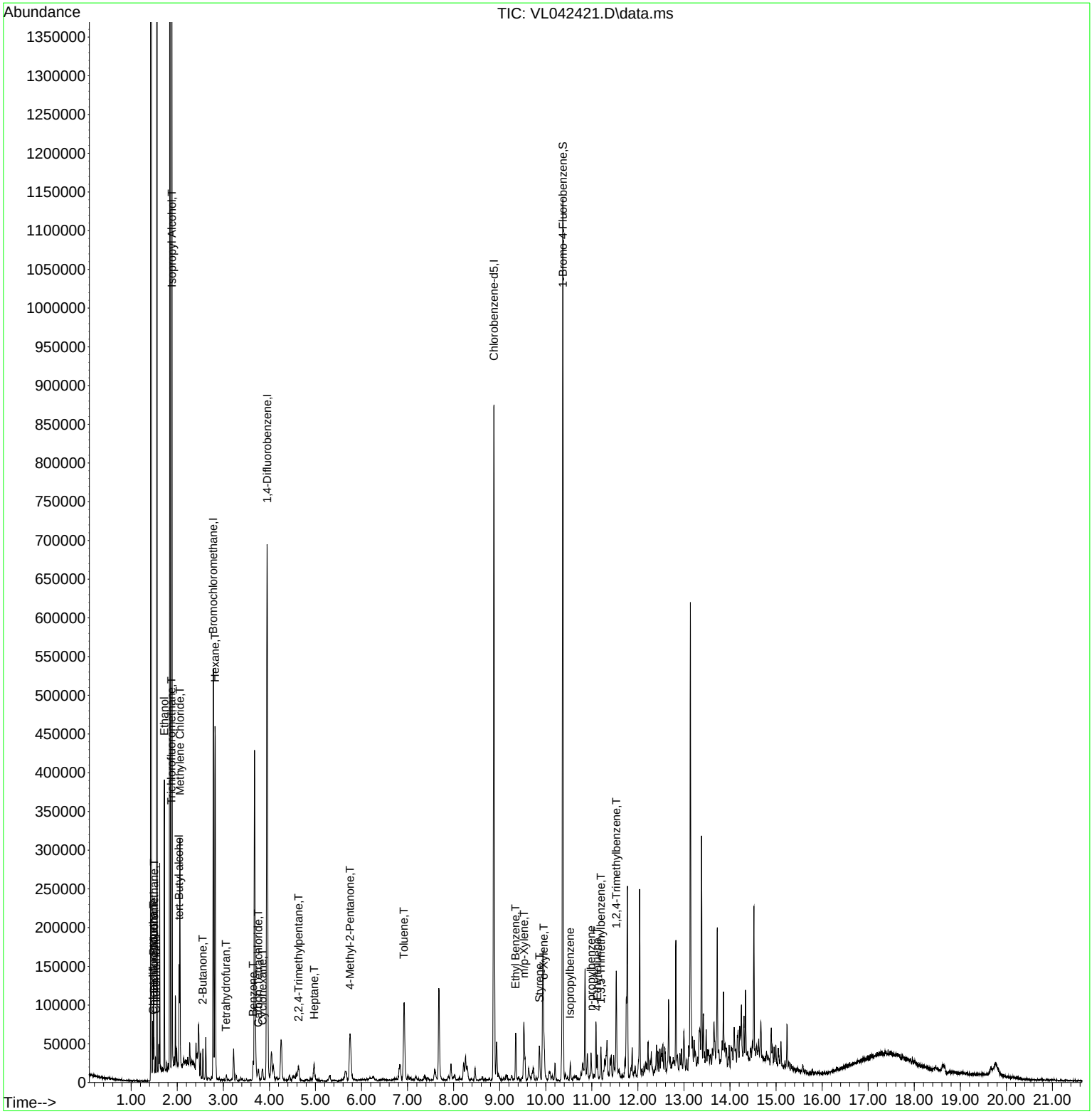
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042421.D
Acq On : 28 Apr 2025 12:17
Operator : SY/MD
Sample : Q1665-12
Misc : 400mL/MSVOA_L
ALS Vial : 8 Sample Multiplier: 1

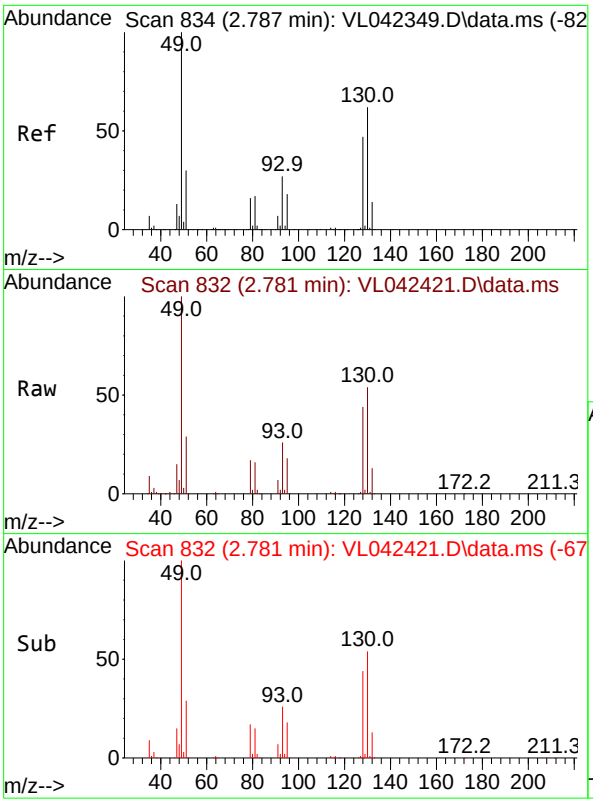
Quant Time: Apr 29 01:35:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-6-3242025

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

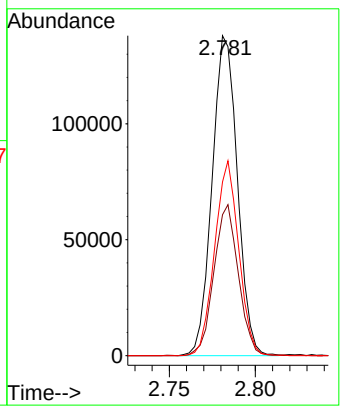





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 8
Delta R.T. -0.006 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion: 49 Resp: 14099

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 45.9 | 22.8 | 68.4 |
| 130 | 58.0 | 29.3 | 88.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
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**Manual Integrations**
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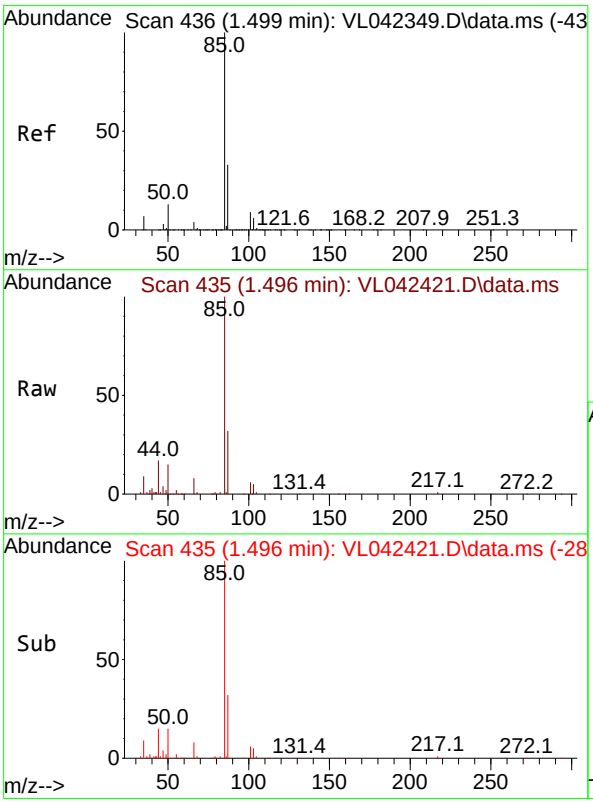
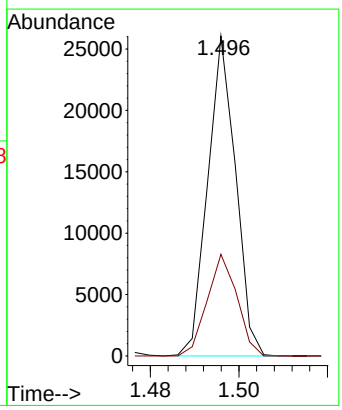
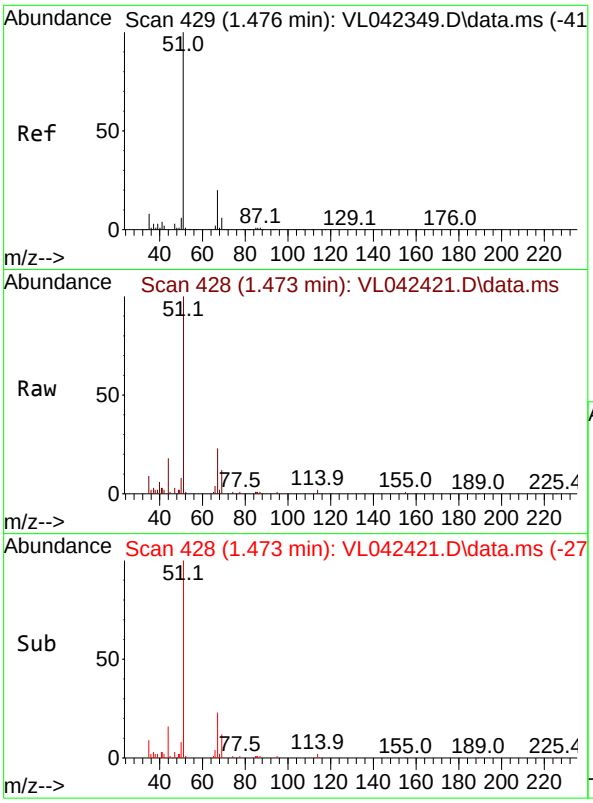



#2
Dichlorodifluoromethane
Concen: 0.458 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion: 85 Resp: 11407

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.7 | 26.6 | 39.8 |

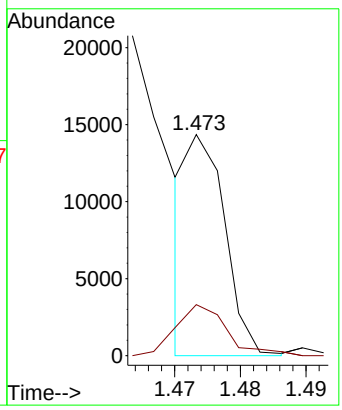





#3
Chlorodifluoromethane
Concen: 0.241 ppbv m
RT: 1.473 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion: 51 Resp: 572

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 32.1 | 16.2 | 24.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-6-3242025

**Manual Integrations**
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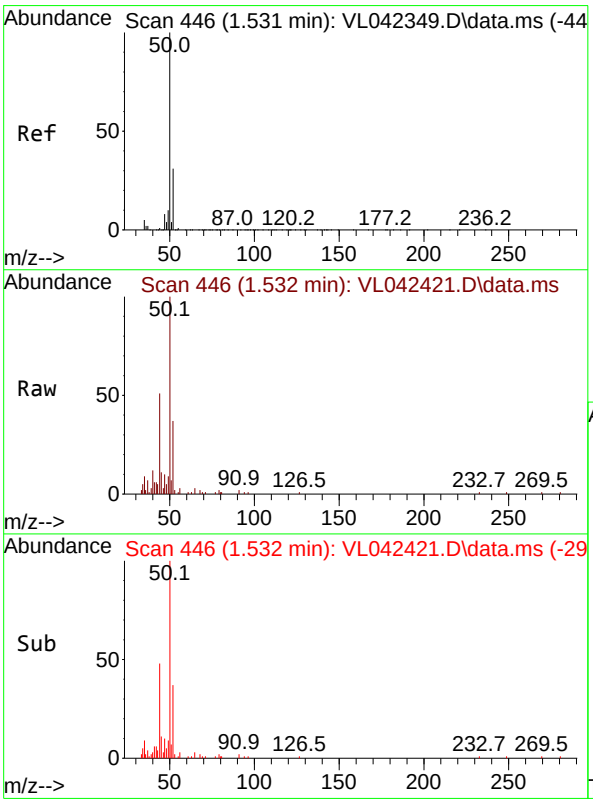
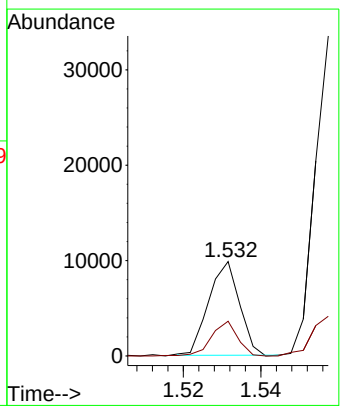
Supervised By :Mahesh Dadoda 04/30/2025

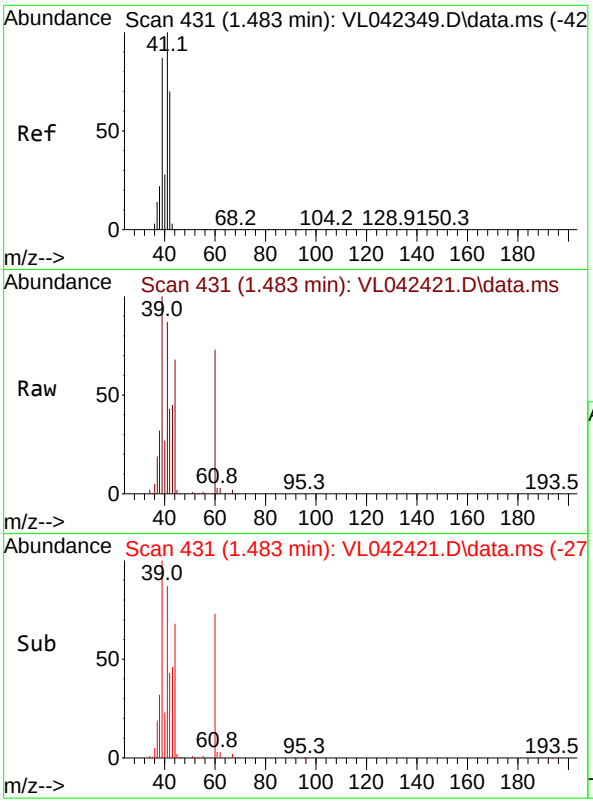



#4
Chloromethane
Concen: 0.547 ppbv
RT: 1.532 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion: 50 Resp: 5396

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 37.0 | 24.7 | 37.1 |

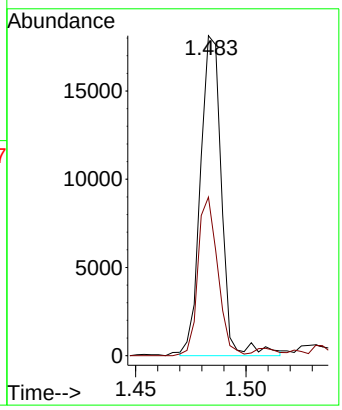





#9
Propene
Concen: 1.121 ppbv m
RT: 1.483 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion: 41 Resp: 1211

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 3382.2 | 56.2 | 84.4 |




**Instrument :**
MSVOA_L
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IA-B2-6-3242025

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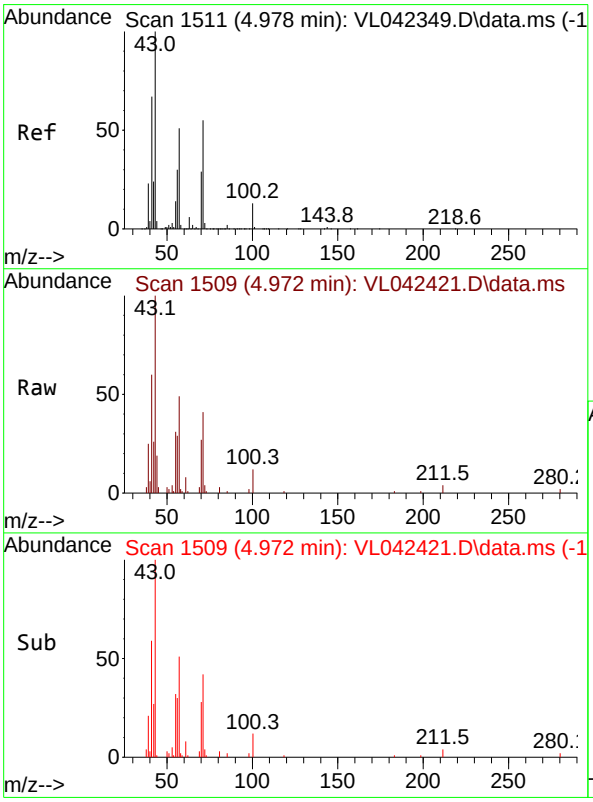
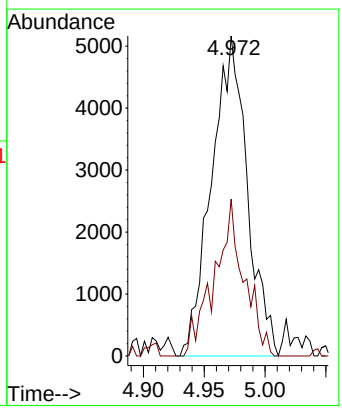
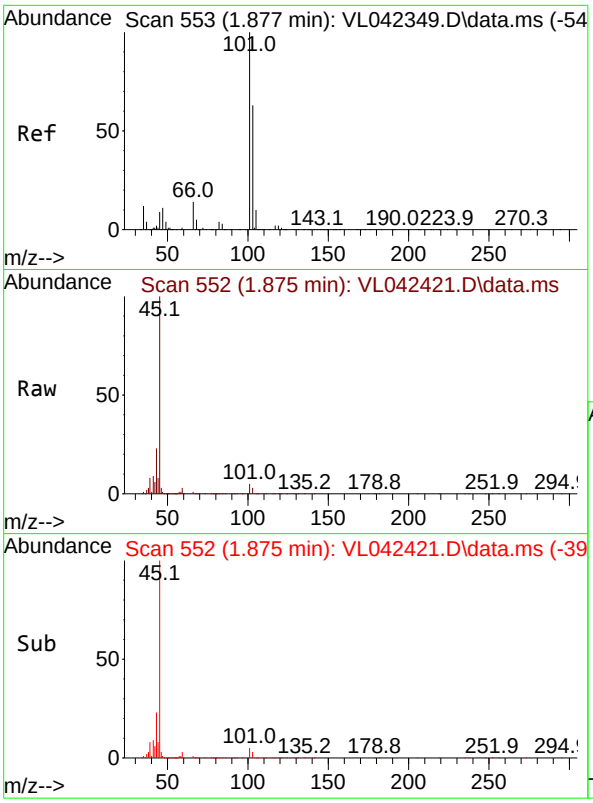



#10
Heptane
Concen: 0.348 ppbv m
RT: 4.972 min Scan# 1509
Delta R.T. -0.006 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion: 43 Resp: 10567

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 40.8 | 39.9 | 59.9 |

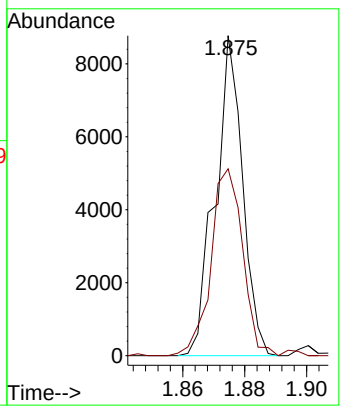





#11
Trichlorofluoromethane
Concen: 0.227 ppbv
RT: 1.875 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion:101 Resp: 538

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 58.4 | 50.1 | 75.1 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-6-3242025

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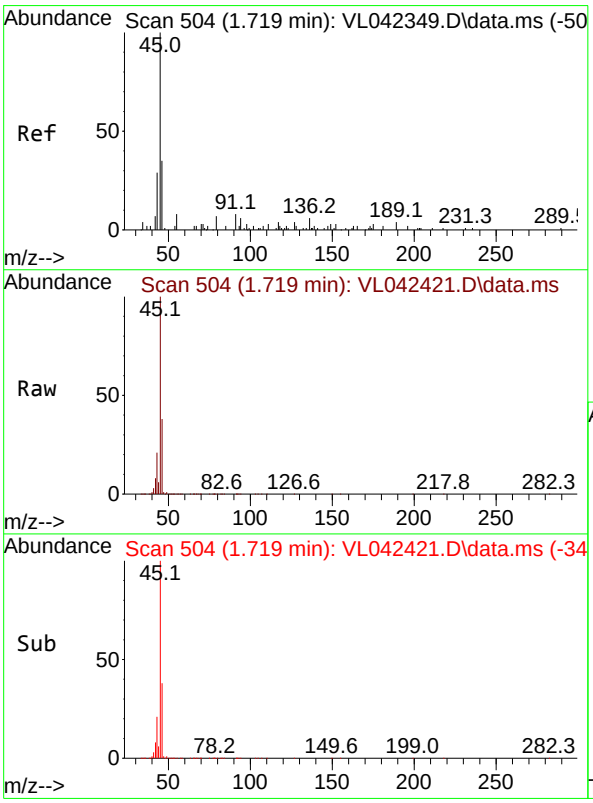
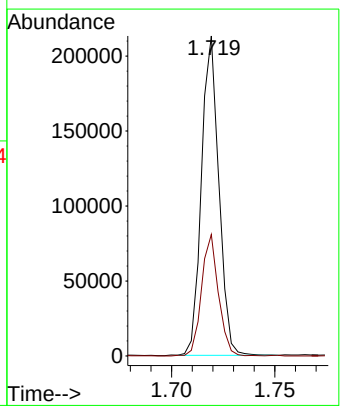
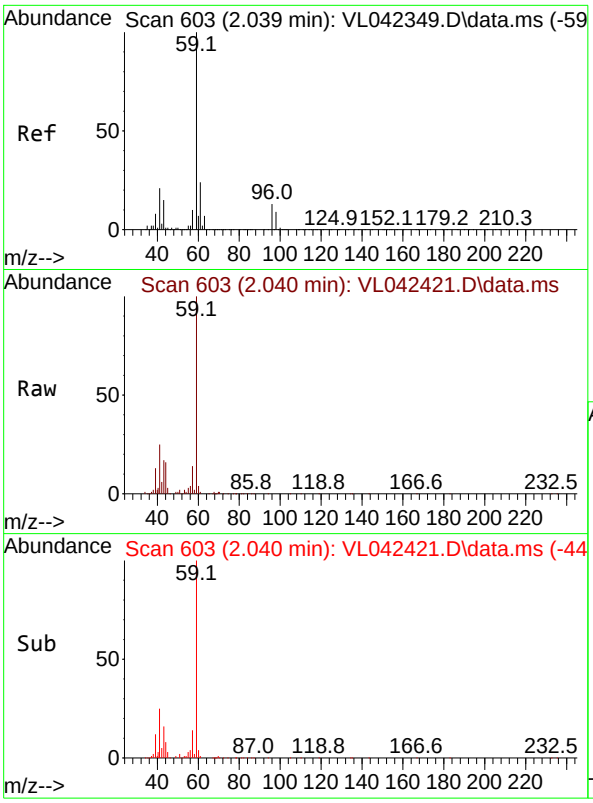



#13
Ethanol
Concen: 72.509 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion: 45 Resp: 124500

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 37.4 | 21.9 | 87.7 |






#17
tert-Butyl alcohol
Concen: 1.854 ppbv
RT: 2.040 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion: 59 Resp: 5303

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 0.0 | 8.7 | 13.1# |

**Instrument :**
MSVOA_L
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IA-B2-6-3242025

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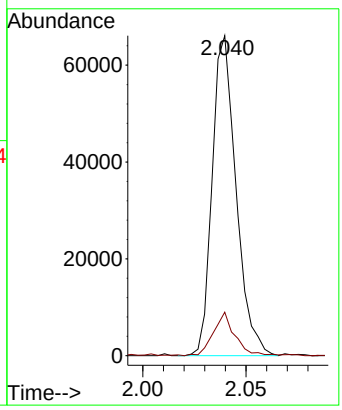
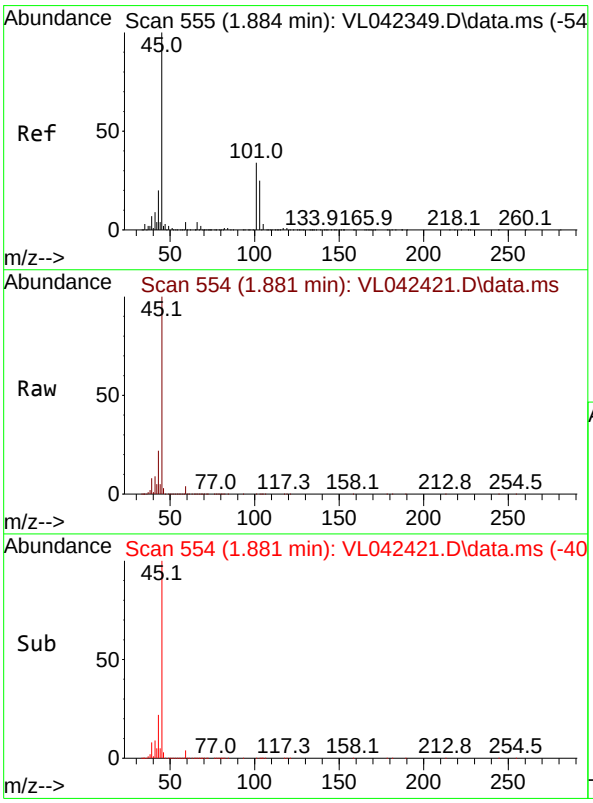
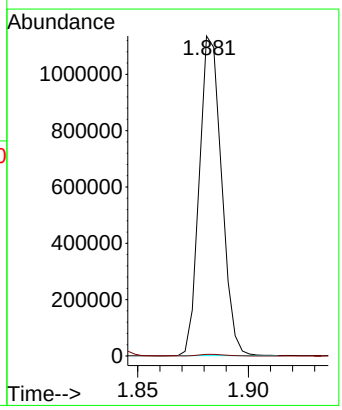


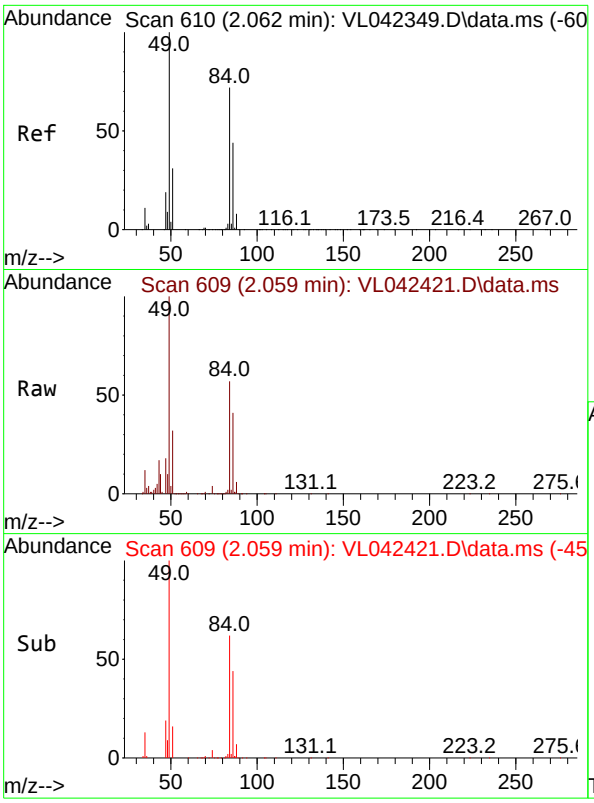




#19
Isopropyl Alcohol
Concen: 61.732 ppbv
RT: 1.881 min Scan# 554
Delta R.T. -0.003 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion: 45 Resp: 791511

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 0.6 | 34.5 | 51.7# |

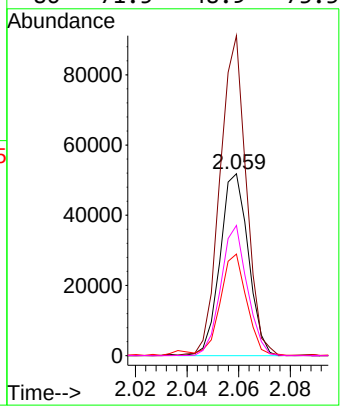





#20
Methylene Chloride
Concen: 4.366 ppbv
RT: 2.059 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion: 84 Resp: 3946

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 175.5 | 111.6 | 167.4# |
| 51 | 55.1 | 35.1 | 52.7# |
| 86 | 71.5 | 48.9 | 73.3 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-6-3242025

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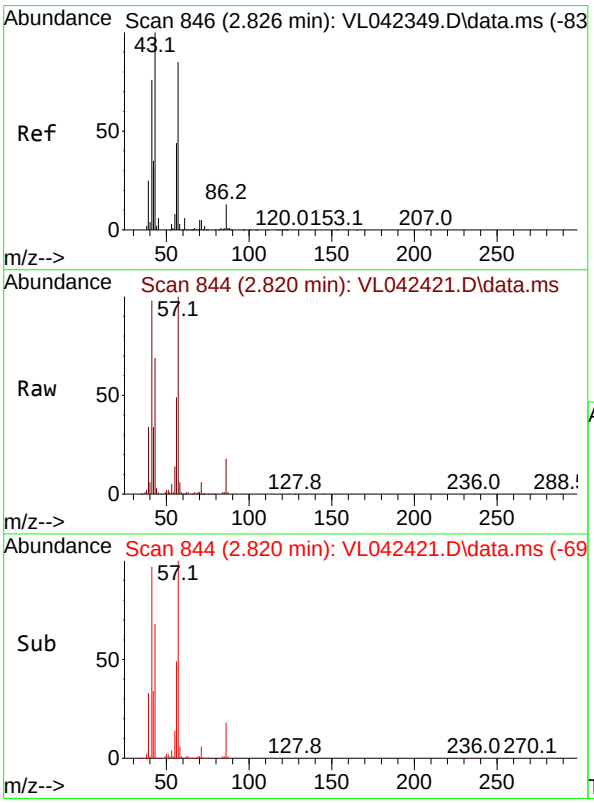
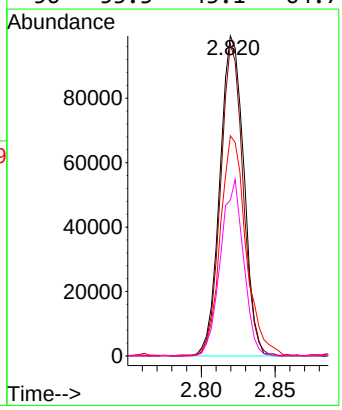
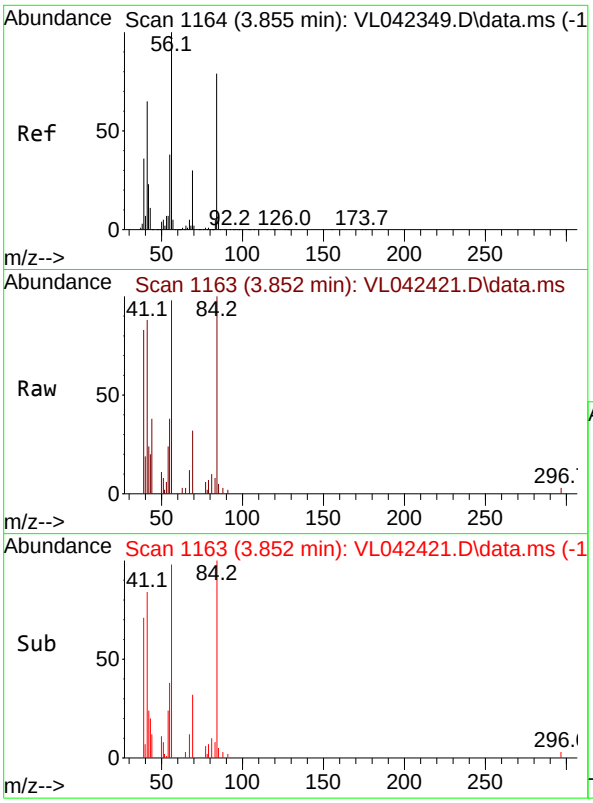



#26
Hexane
Concen: 4.851 ppbv
RT: 2.820 min Scan# 844
Delta R.T. -0.006 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion: 57 Resp: 111715

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 92.0 | 77.9 | 116.9 |
| 43 | 74.4 | 208.4 | 312.6# |
| 56 | 53.3 | 43.1 | 64.7 |

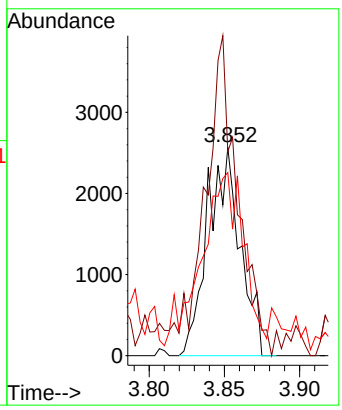





#30
Cyclohexane
Concen: 0.209 ppbv m
RT: 3.852 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion: 84 Resp: 388

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 163.8 | 101.0 | 151.4# |
| 41 | 0.0 | 67.4 | 101.0# |




**Instrument :**
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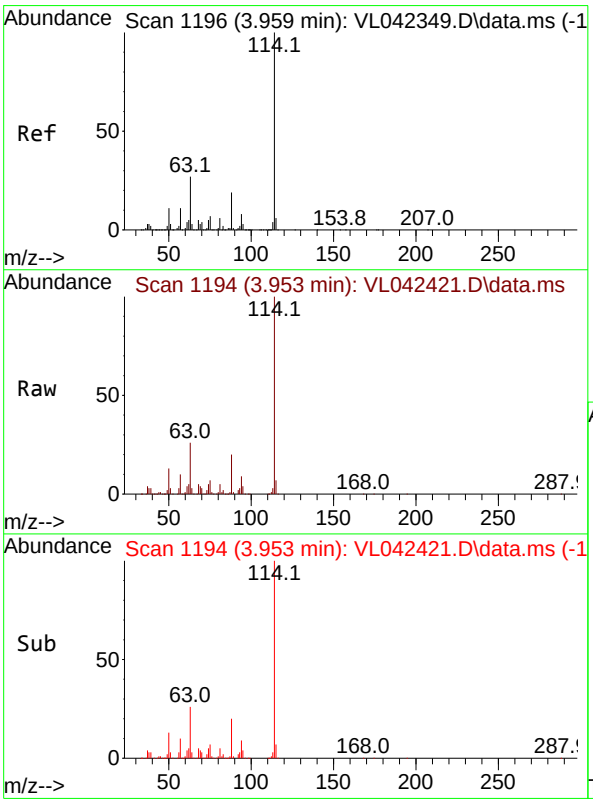
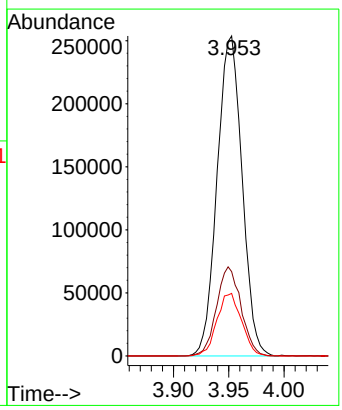
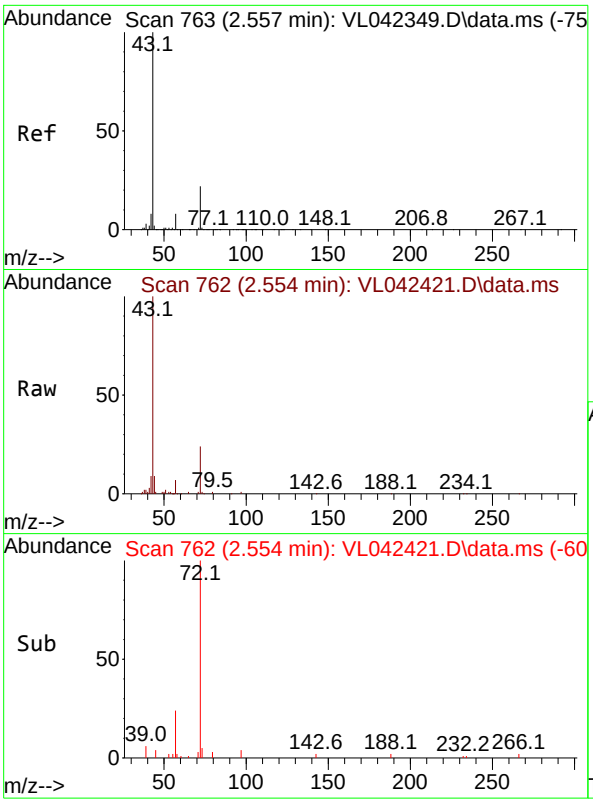



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.953 min Scan# 1194
Delta R.T. -0.006 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion:114 Resp: 398020

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 27.3 | 21.8 | 32.6 |
| 88 | 19.3 | 15.5 | 23.3 |

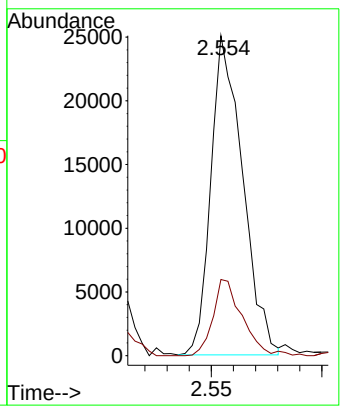





#34
2-Butanone
Concen: 0.794 ppbv
RT: 2.554 min Scan# 7
Delta R.T. -0.003 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion: 43 Resp: 2500

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 22.5 | 18.2 | 27.2 |

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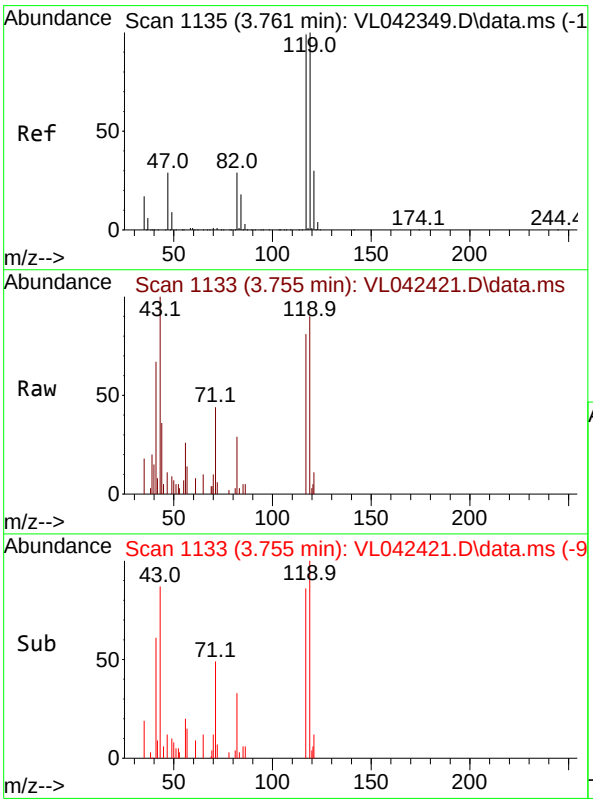
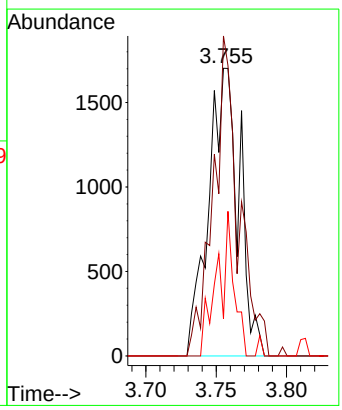
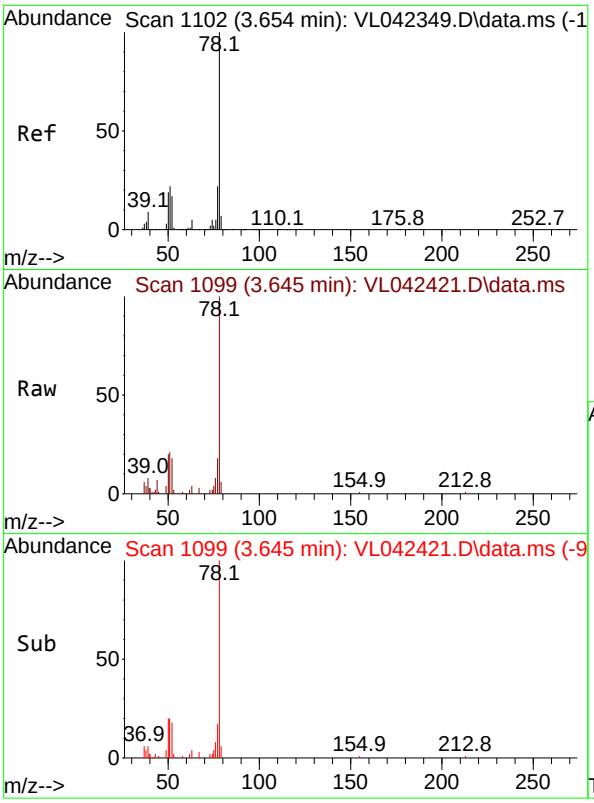



#35
Carbon Tetrachloride
Concen: 0.072 ppbv m
RT: 3.755 min Scan# 1133
Delta R.T. -0.006 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion:117 Resp: 2578

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 111.2 | 80.5 | 120.7 |
| 121 | 13.0 | 24.2 | 36.2# |

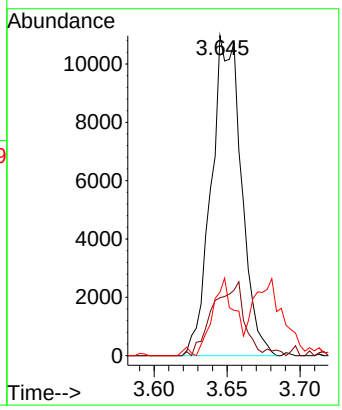





#36
Benzene
Concen: 0.368 ppbv m
RT: 3.645 min Scan# 1
Delta R.T. -0.009 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion: 78 Resp: 1577

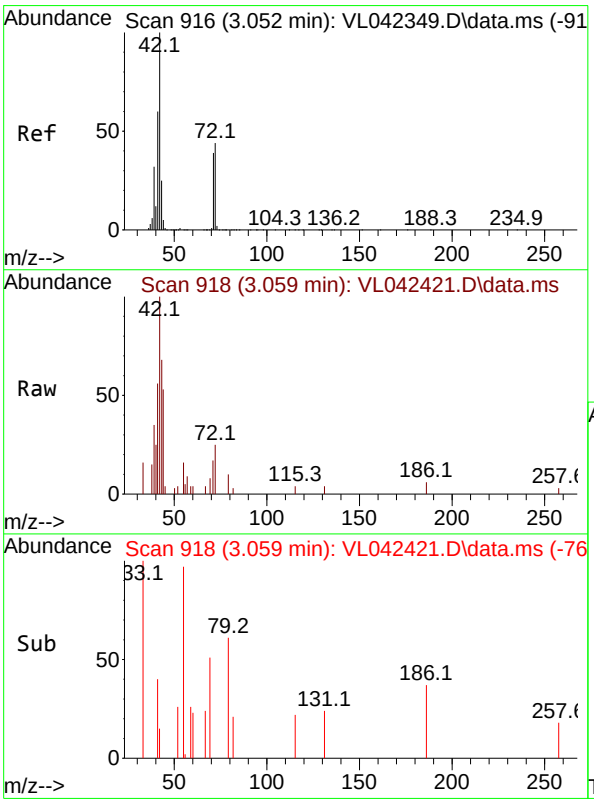
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 18.1 | 17.4 | 26.0 |
| 50 | 19.9 | 15.5 | 23.3 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-6-3242025

**Manual Integrations**
**APPROVED**

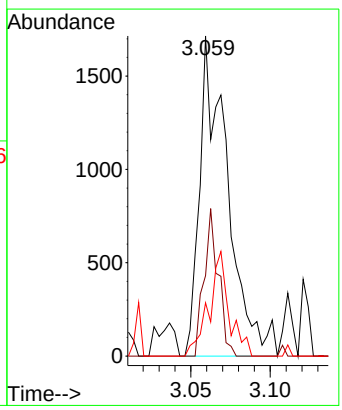
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

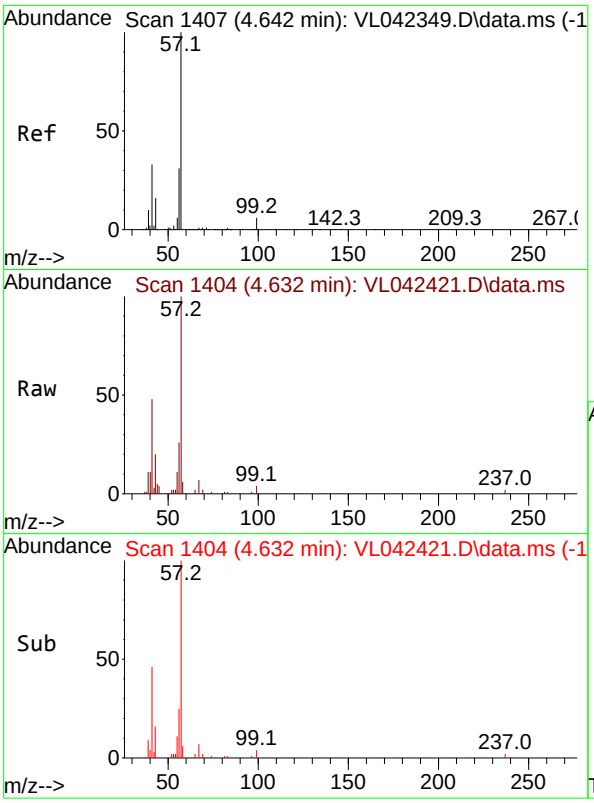



#41
Tetrahydrofuran
Concen: 0.114 ppbv m
RT: 3.059 min Scan# 918
Delta R.T. 0.007 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion: 42 Resp: 2097

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 23.6 | 32.3 | 48.5# |
| 71 | 0.0 | 31.4 | 47.2# |

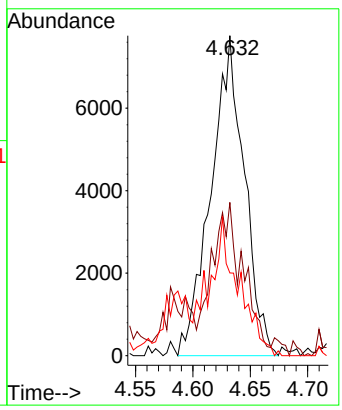





#44
2,2,4-Trimethylpentane
Concen: 0.212 ppbv
RT: 4.632 min Scan# 14
Delta R.T. -0.009 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion: 57 Resp: 1572

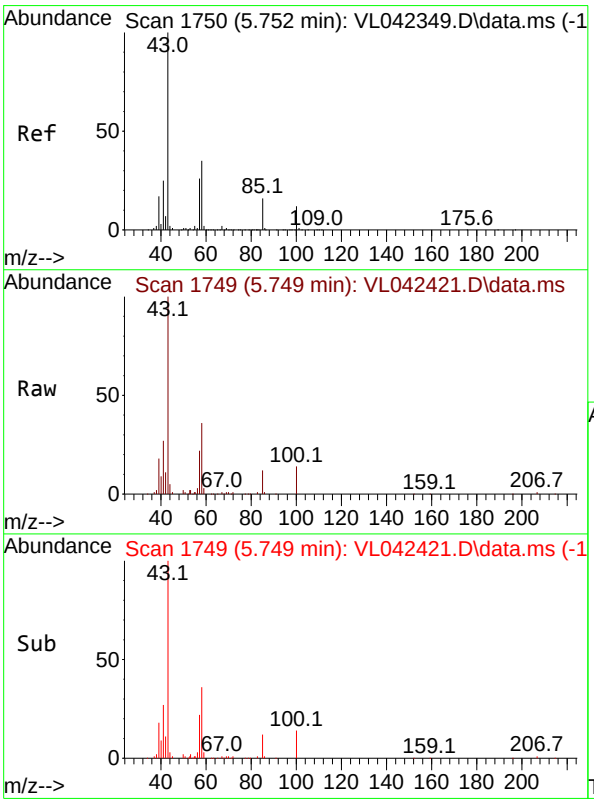
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 52.6 | 27.2 | 40.8# |
| 56 | 53.5 | 25.7 | 38.5# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-6-3242025

**Manual Integrations**
**APPROVED**

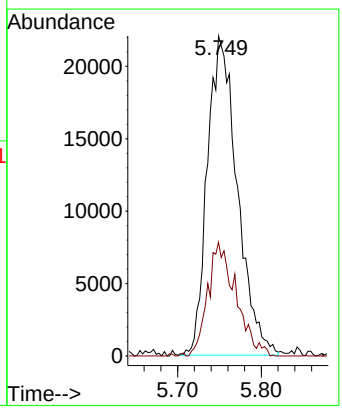
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

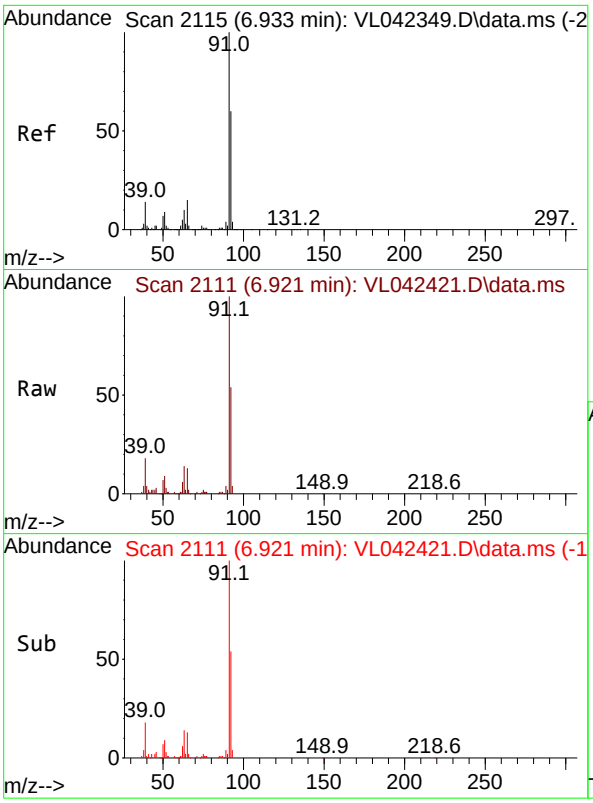



#50
4-Methyl-2-Pentanone
Concen: 1.046 ppbv
RT: 5.749 min Scan# 1749
Delta R.T. -0.003 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion: 43 Resp: 54716

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 33.7 | 28.6 | 43.0 |

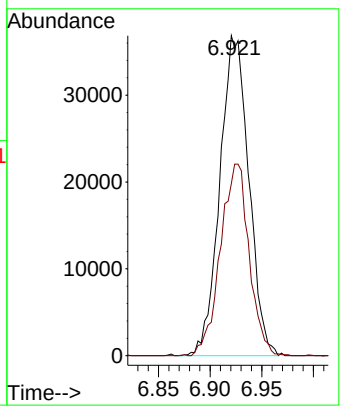





#53
Toluene
Concen: 1.393 ppbv
RT: 6.921 min Scan# 21
Delta R.T. -0.013 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion: 91 Resp: 7176

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 59.6 | 48.2 | 72.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-6-3242025

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/29/2025
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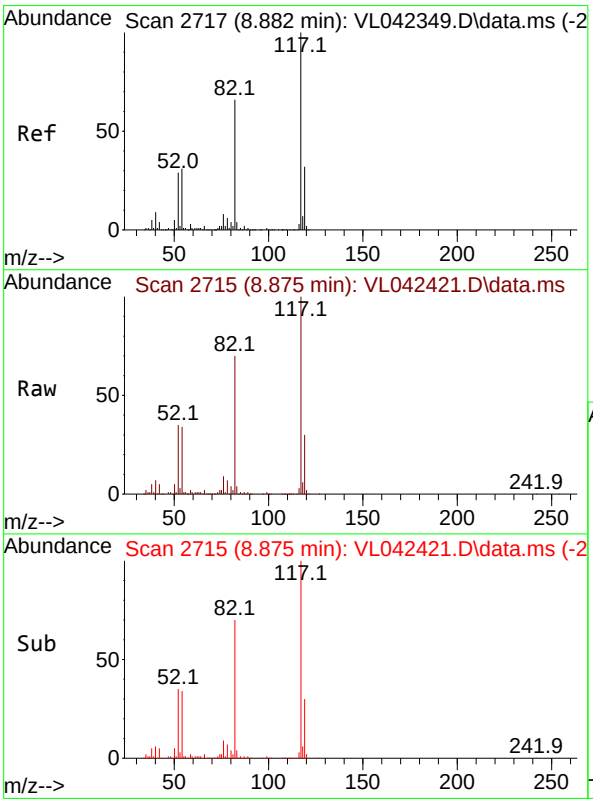
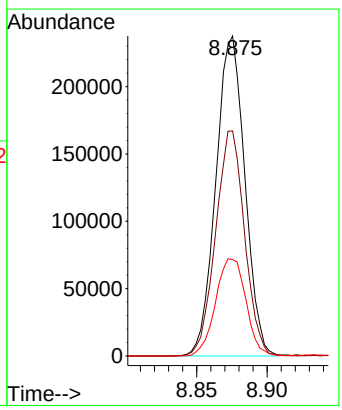
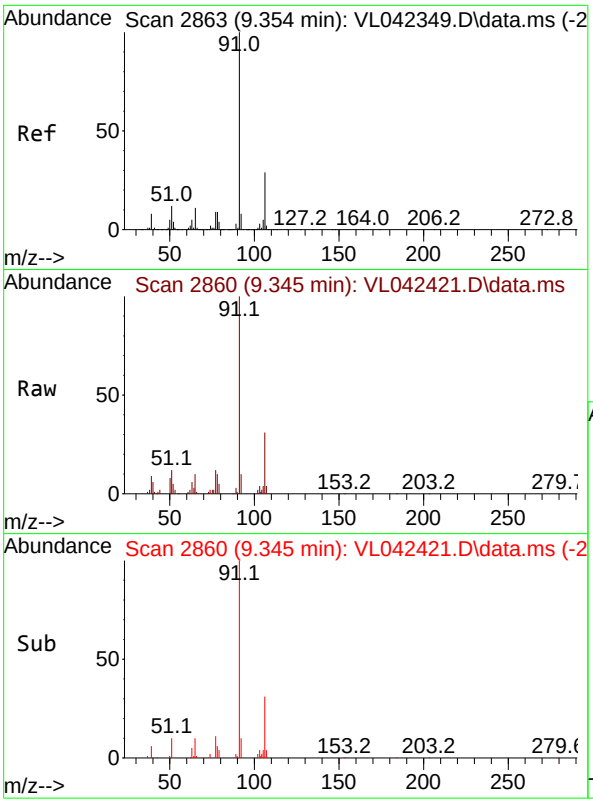



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. -0.006 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion:117 Resp: 341014

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 70.2 | 57.8 | 86.6 |
| 119 | 31.8 | 25.2 | 37.8 |

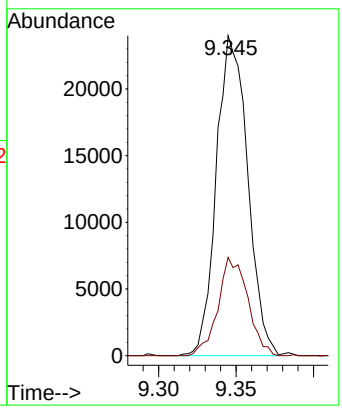





#58
Ethyl Benzene
Concen: 0.498 ppbv
RT: 9.345 min Scan# 2
Delta R.T. -0.009 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion: 91 Resp: 3366

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.7 | 23.0 | 34.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-6-3242025

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/29/2025
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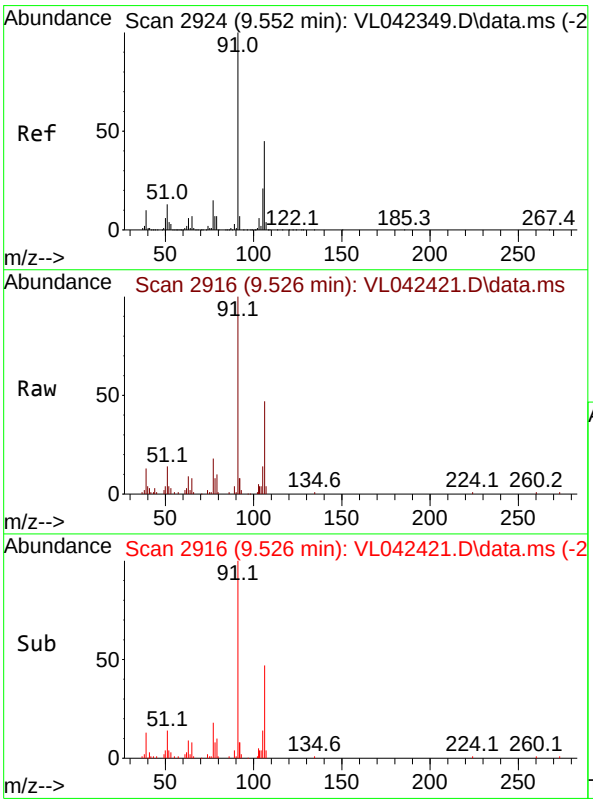
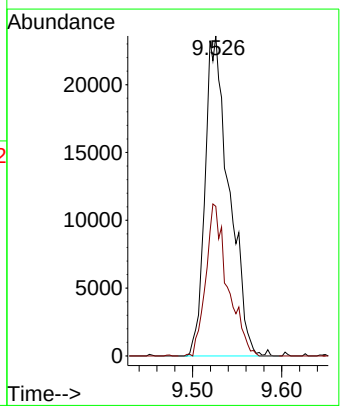
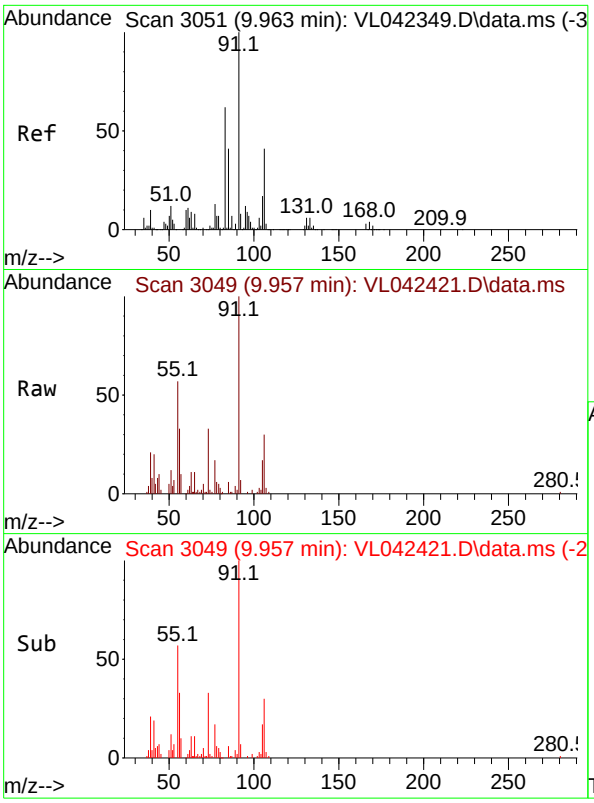



#59
m/p-Xylene
Concen: 0.815 ppbv m
RT: 9.526 min Scan# 2916
Delta R.T. -0.026 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion: 91 Resp: 44376

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 0.0 | 35.4 | 53.2# |

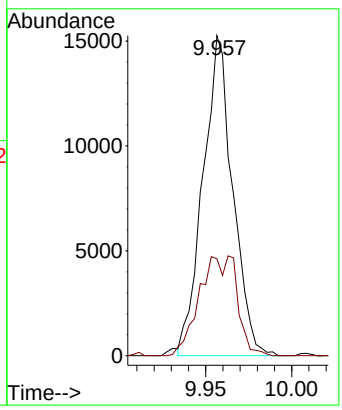





#60
o-Xylene
Concen: 0.336 ppbv
RT: 9.957 min Scan# 3
Delta R.T. -0.006 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion: 91 Resp: 1839

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 40.3 | 21.1 | 63.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-6-3242025

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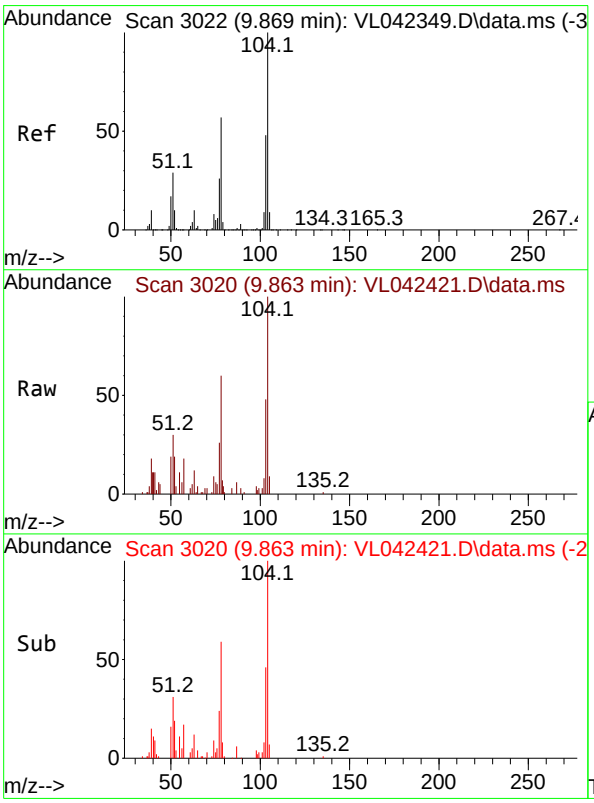
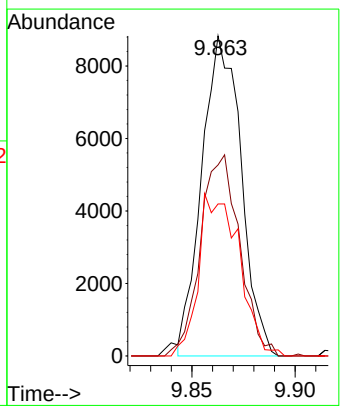
Supervised By :Mahesh Dadoda 04/30/2025

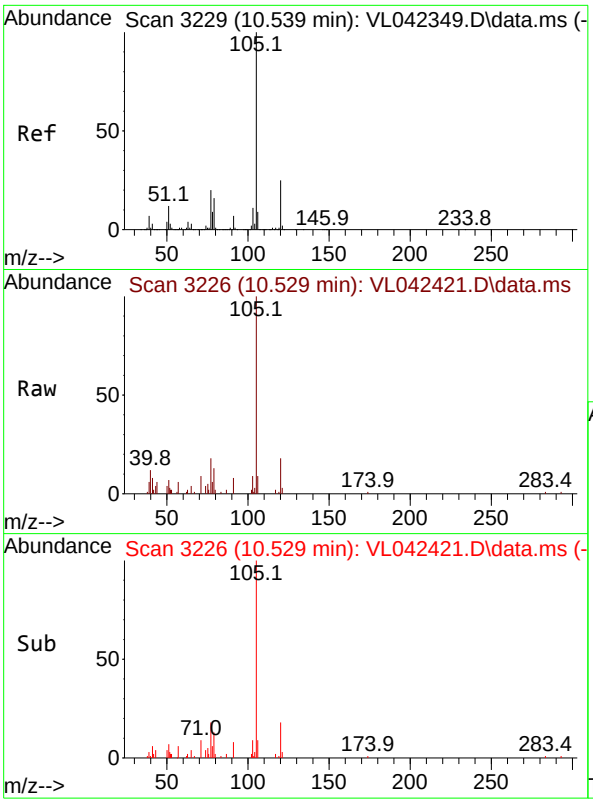



#61
Styrene
Concen: 0.446 ppbv
RT: 9.863 min Scan# 3020
Delta R.T. -0.006 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion:104 Resp: 11677

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 62.9 | 44.6 | 66.8 |
| 103 | 52.1 | 37.4 | 56.0 |

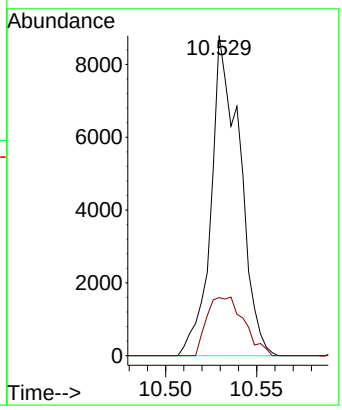





#62
Isopropylbenzene
Concen: 0.120 ppbv
RT: 10.529 min Scan# 3
Delta R.T. -0.009 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion:105 Resp: 965

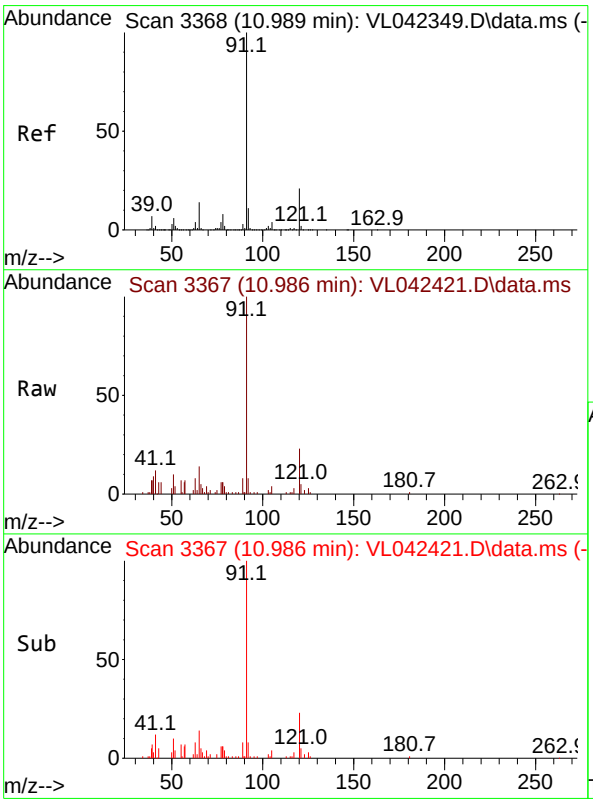
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 23.7 | 19.8 | 29.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-6-3242025

**Manual Integrations**
**APPROVED**

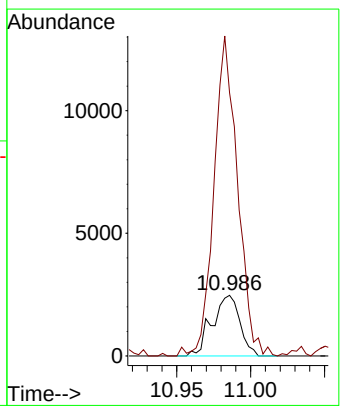
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

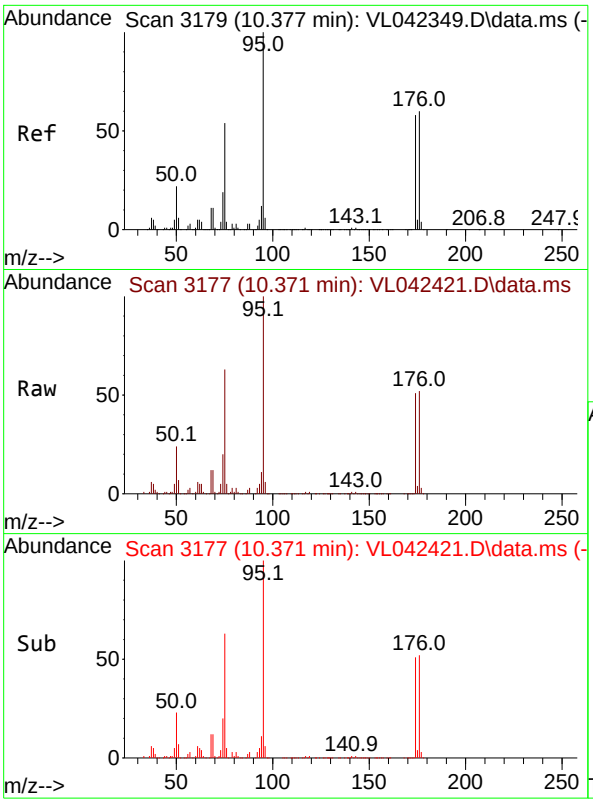



#64
n-propylbenzene
Concen: 0.159 ppbv m
RT: 10.986 min Scan# 3367
Delta R.T. -0.003 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion:120 Resp: 3222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 451.4 | 392.4 | 588.6 |

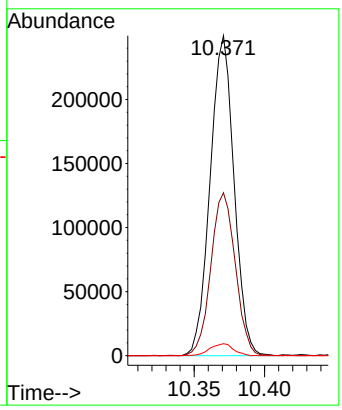





#68
1-Bromo-4-Fluorobenzene
Concen: 10.536 ppbv
RT: 10.371 min Scan# 3
Delta R.T. -0.006 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion: 95 Resp: 29524

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 52.1 | 48.5 | 72.7 |
| 175 | 3.7 | 3.7 | 5.5 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-6-3242025

**Manual Integrations**
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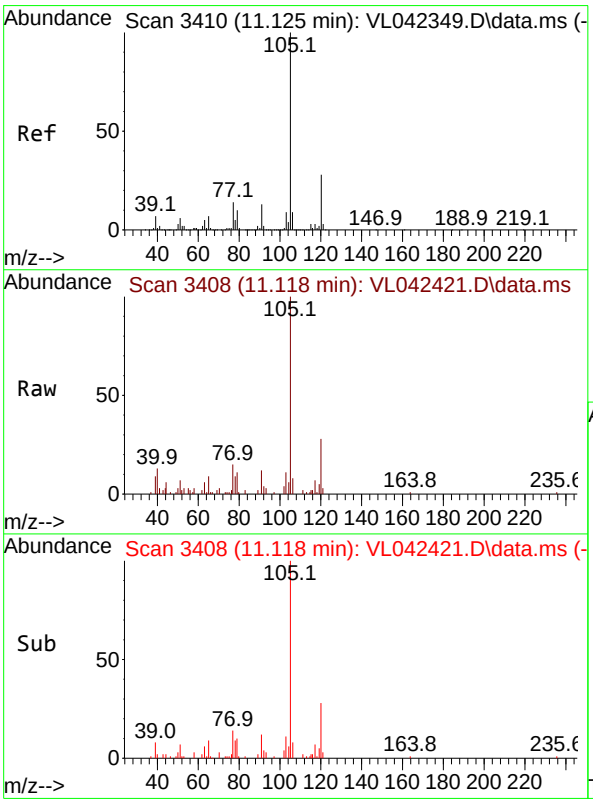
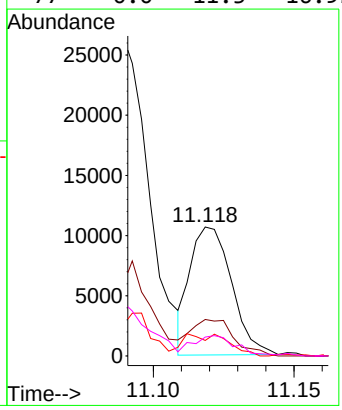
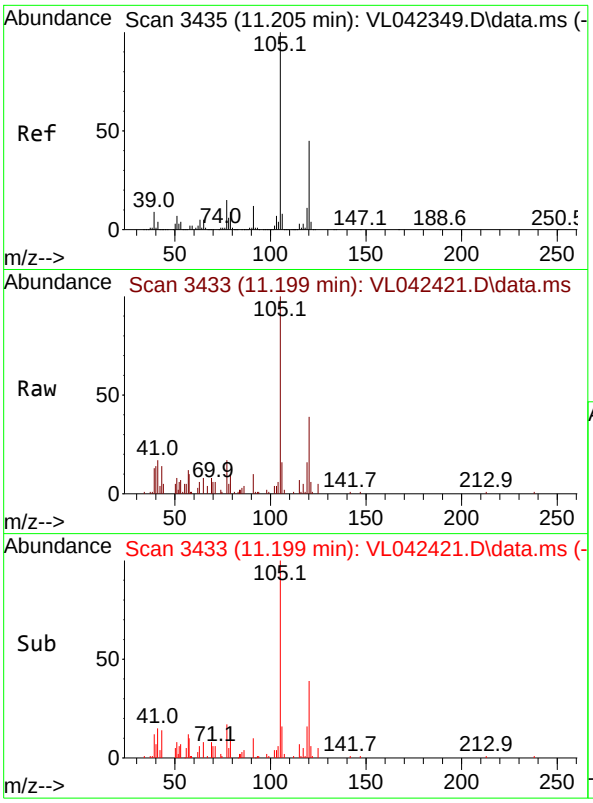



#72
4-Ethyltoluene
Concen: 0.163 ppbv
RT: 11.118 min Scan# 3408
Delta R.T. -0.006 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion:105 Resp: 10909

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 0.0 | 23.2 | 34.8# |
| 91 | 0.0 | 10.4 | 15.6# |
| 77 | 0.0 | 11.3 | 16.9# |

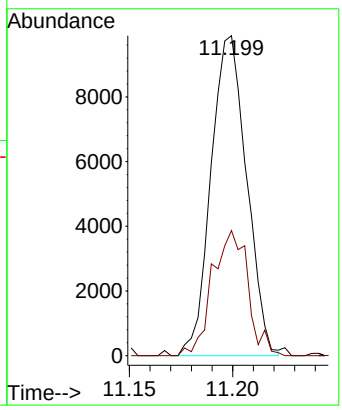





#73
1,3,5-Trimethylbenzene
Concen: 0.200 ppbv
RT: 11.199 min Scan# 34
Delta R.T. -0.006 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion:105 Resp: 1185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 39.1 | 35.6 | 53.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-6-3242025

**Manual Integrations**
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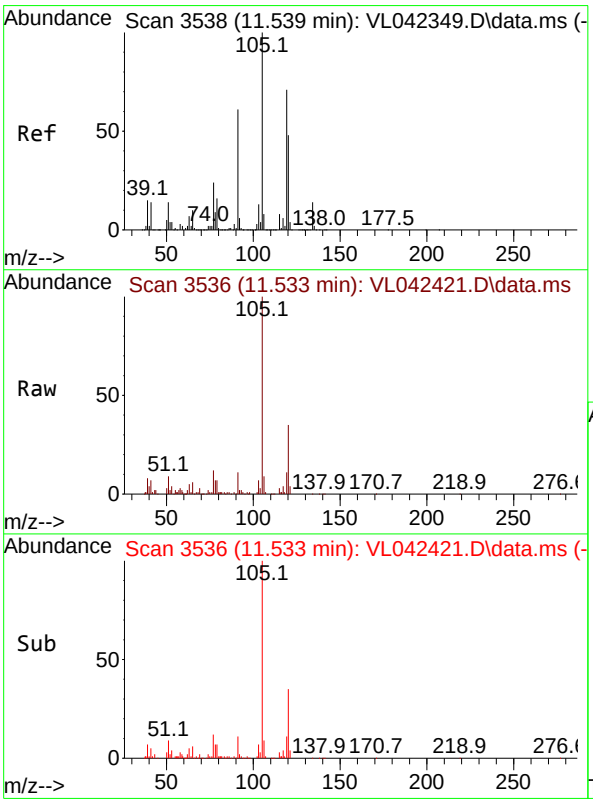
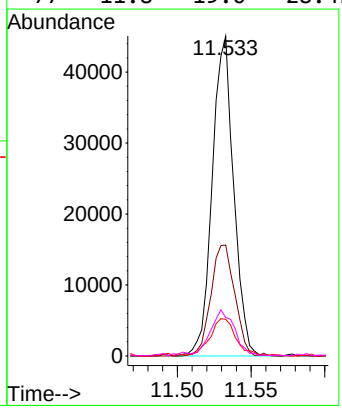



#74
1,2,4-Trimethylbenzene
Concen: 0.657 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. -0.006 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion:105 Resp: 45414

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 34.6 | 38.1 | 57.1# |
| 91 | 11.1 | 48.8 | 73.2# |
| 77 | 11.8 | 19.0 | 28.4# |



LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042421.D
Acq On : 28 Apr 2025 12:17
Operator : SY/MD
Sample : Q1665-12
Misc : 400mL/MSVOA_L
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** MSVOA_L
**ClientSampleId :** IA-B2-6-3242025

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

Signal : TIC: VL042421.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.428 | 409 | 414 | 420 | rBV | 4339981 | 4677094 | 100.00% | 21.037% |
| 2 | 1.486 | 427 | 432 | 434 | rBV2 | 104159 | 52096 | 1.11% | 0.234% |
| 3 | 1.557 | 450 | 454 | 458 | rBV | 5213277 | 2693187 | 57.58% | 12.113% |
| 4 | 1.619 | 469 | 473 | 477 | rVB | 265335 | 131785 | 2.82% | 0.593% |
| 5 | 1.719 | 499 | 504 | 509 | rBV | 376180 | 221267 | 4.73% | 0.995% |
| 6 | 1.842 | 535 | 542 | 548 | rBV2 | 2714342 | 2026186 | 43.32% | 9.113% |
| 7 | 1.881 | 548 | 554 | 566 | rVV | 1838189 | 1301445 | 27.83% | 5.854% |
| 8 | 1.959 | 574 | 578 | 583 | rVB | 90262 | 64580 | 1.38% | 0.290% |
| 9 | 2.040 | 598 | 603 | 605 | rBV | 129863 | 95852 | 2.05% | 0.431% |
| 10 | 2.056 | 605 | 608 | 621 | rVB2 | 295123 | 241598 | 5.17% | 1.087% |
| 11 | 2.464 | 725 | 734 | 742 | rVB3 | 66508 | 112822 | 2.41% | 0.507% |
| 12 | 2.619 | 772 | 782 | 790 | rVB2 | 55398 | 56047 | 1.20% | 0.252% |
| 13 | 2.784 | 825 | 833 | 838 | rBV | 529883 | 546027 | 11.67% | 2.456% |
| 14 | 2.820 | 838 | 844 | 856 | rVB | 455451 | 518932 | 11.10% | 2.334% |
| 15 | 3.221 | 958 | 968 | 977 | rVB2 | 40930 | 57299 | 1.23% | 0.258% |
| 16 | 3.677 | 1103 | 1109 | 1125 | rVB | 421053 | 607007 | 12.98% | 2.730% |
| 17 | 3.949 | 1179 | 1193 | 1207 | rBV | 691564 | 1120429 | 23.96% | 5.039% |
| 18 | 4.043 | 1212 | 1222 | 1231 | rBV4 | 34175 | 64628 | 1.38% | 0.291% |
| 19 | 4.254 | 1277 | 1287 | 1304 | rVB7 | 51909 | 115580 | 2.47% | 0.520% |
| 20 | 5.749 | 1736 | 1749 | 1771 | rBV5 | 60297 | 157394 | 3.37% | 0.708% |
| 21 | 6.927 | 2100 | 2113 | 2132 | rVB2 | 99913 | 210980 | 4.51% | 0.949% |
| 22 | 7.678 | 2334 | 2345 | 2358 | rBV2 | 117694 | 204218 | 4.37% | 0.919% |
| 23 | 8.875 | 2702 | 2715 | 2725 | rBV | 871997 | 1285075 | 27.48% | 5.780% |
| 24 | 8.934 | 2725 | 2733 | 2741 | rVB3 | 45658 | 70516 | 1.51% | 0.317% |
| 25 | 9.345 | 2852 | 2860 | 2871 | rBV3 | 59936 | 85898 | 1.84% | 0.386% |
| 26 | 9.526 | 2907 | 2916 | 2923 | rBV3 | 73111 | 119543 | 2.56% | 0.538% |
| 27 | 9.859 | 3012 | 3019 | 3031 | rVB5 | 43870 | 66616 | 1.42% | 0.300% |
| 28 | 9.940 | 3031 | 3044 | 3062 | rBV4 | 167174 | 347491 | 7.43% | 1.563% |
| 29 | 10.371 | 3161 | 3177 | 3188 | rBV | 1137546 | 1422025 | 30.40% | 6.396% |
| 30 | 10.853 | 3319 | 3326 | 3333 | rVB2 | 136312 | 161623 | 3.46% | 0.727% |
| 31 | 10.983 | 3359 | 3366 | 3380 | rVB2 | 33498 | 50194 | 1.07% | 0.226% |
| 32 | 11.089 | 3391 | 3399 | 3405 | rBV2 | 72161 | 82995 | 1.77% | 0.373% |
| 33 | 11.196 | 3422 | 3432 | 3439 | rVB3 | 41012 | 51882 | 1.11% | 0.233% |
| 34 | 11.329 | 3468 | 3473 | 3481 | rVB5 | 44872 | 58086 | 1.24% | 0.261% |
| 35 | 11.530 | 3527 | 3535 | 3547 | rVB | 131748 | 168734 | 3.61% | 0.759% |
| 36 | 11.750 | 3597 | 3603 | 3604 | rBV | 91250 | 75255 | 1.61% | 0.338% |

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042421.D
Acq On : 28 Apr 2025 12:17
Operator : SY/MD
Sample : Q1665-12
Misc : 400mL/MSVOA_L
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-6-3242025

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 37 | 11.772 | 3604 | 3610 | 3619 | rVB2 | 247306 | 308554 | 6.60% | 1.388% |
| 38 | 12.038 | 3685 | 3692 | 3702 | rVB4 | 239975 | 260220 | 5.56% | 1.170% |
| 39 | 12.666 | 3874 | 3886 | 3894 | rBV5 | 92634 | 114180 | 2.44% | 0.514% |
| 40 | 12.824 | 3929 | 3935 | 3941 | rBV2 | 162429 | 164216 | 3.51% | 0.739% |
| 41 | 12.999 | 3981 | 3989 | 4001 | rVB7 | 49548 | 78079 | 1.67% | 0.351% |
| 42 | 13.138 | 4024 | 4032 | 4043 | rBV | 586839 | 618191 | 13.22% | 2.780% |
| 43 | 13.336 | 4085 | 4093 | 4094 | rBV7 | 43881 | 53535 | 1.14% | 0.241% |
| 44 | 13.381 | 4101 | 4107 | 4114 | rVB2 | 287612 | 295124 | 6.31% | 1.327% |
| 45 | 13.423 | 4114 | 4120 | 4125 | rBV3 | 57970 | 59472 | 1.27% | 0.267% |
| 46 | 13.653 | 4185 | 4191 | 4201 | rVB3 | 46419 | 70666 | 1.51% | 0.318% |
| 47 | 13.724 | 4201 | 4213 | 4218 | rBV | 168740 | 185976 | 3.98% | 0.836% |
| 48 | 13.857 | 4249 | 4254 | 4261 | rVB2 | 76582 | 71431 | 1.53% | 0.321% |
| 49 | 14.090 | 4319 | 4326 | 4332 | rBV6 | 41812 | 50465 | 1.08% | 0.227% |
| 50 | 14.248 | 4367 | 4375 | 4381 | rVB4 | 60748 | 72472 | 1.55% | 0.326% |
| 51 | 14.303 | 4383 | 4392 | 4397 | rBV4 | 52488 | 51010 | 1.09% | 0.229% |
| 52 | 14.336 | 4397 | 4402 | 4409 | rVB3 | 84059 | 90488 | 1.93% | 0.407% |
| 53 | 14.520 | 4452 | 4459 | 4464 | rVB | 186471 | 180786 | 3.87% | 0.813% |
| 54 | 14.669 | 4496 | 4505 | 4512 | rVB9 | 46922 | 66648 | 1.42% | 0.300% |
| 55 | 14.896 | 4566 | 4575 | 4579 | rBV6 | 48287 | 59516 | 1.27% | 0.268% |
| 56 | 15.235 | 4673 | 4680 | 4688 | rBV4 | 54852 | 59802 | 1.28% | 0.269% |

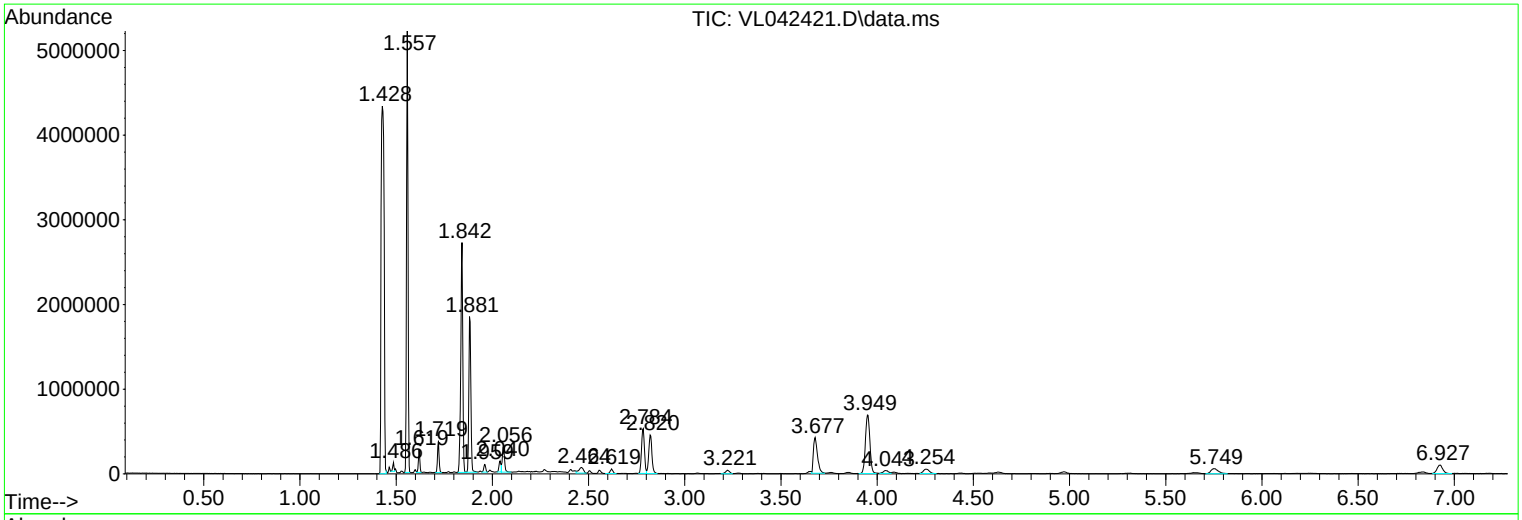
Sum of corrected areas: 22233217

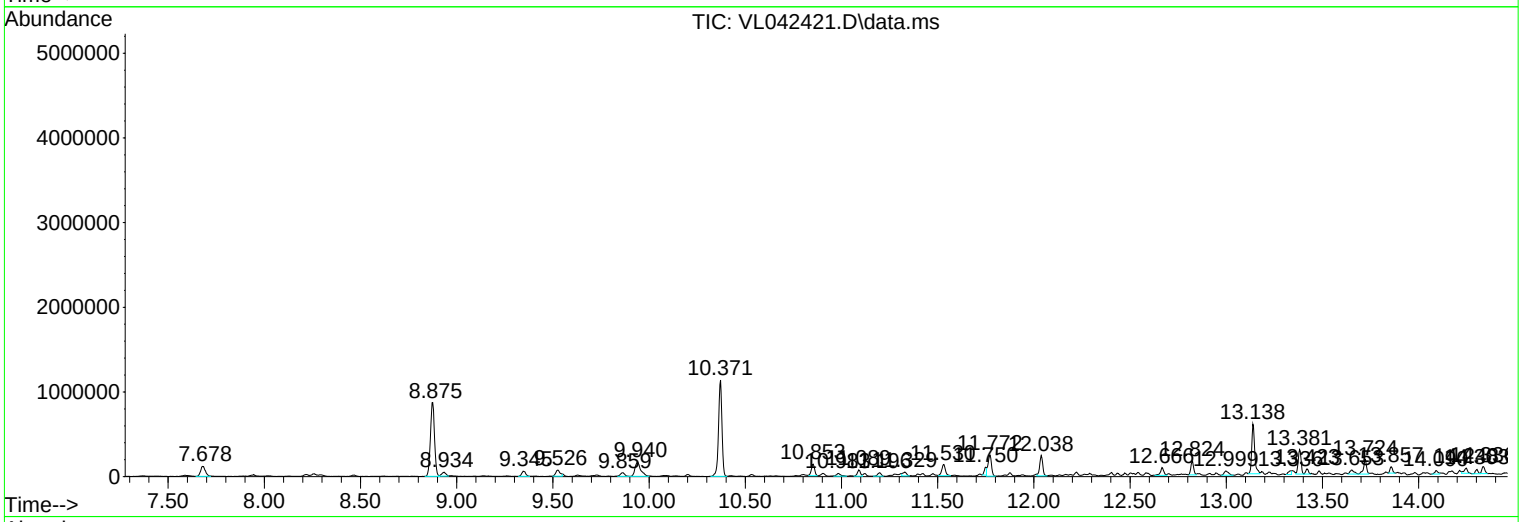
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042421.D
Acq On : 28 Apr 2025 12:17
Operator : SY/MD
Sample : Q1665-12
Misc : 400mL/MSVOA_L
ALS Vial : 8 Sample Multiplier: 1

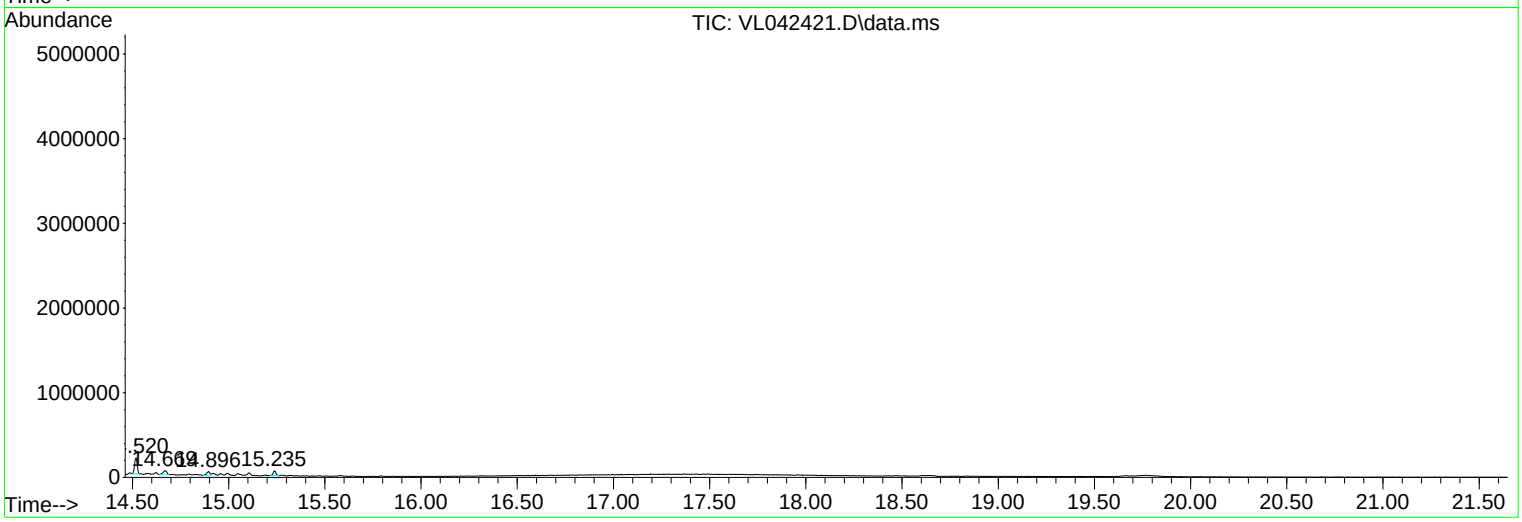
**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-6-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042421.D
Acq On : 28 Apr 2025 12:17
Operator : SY/MD
Sample : Q1665-12
Misc : 400mL/MSVOA_L
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-6-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

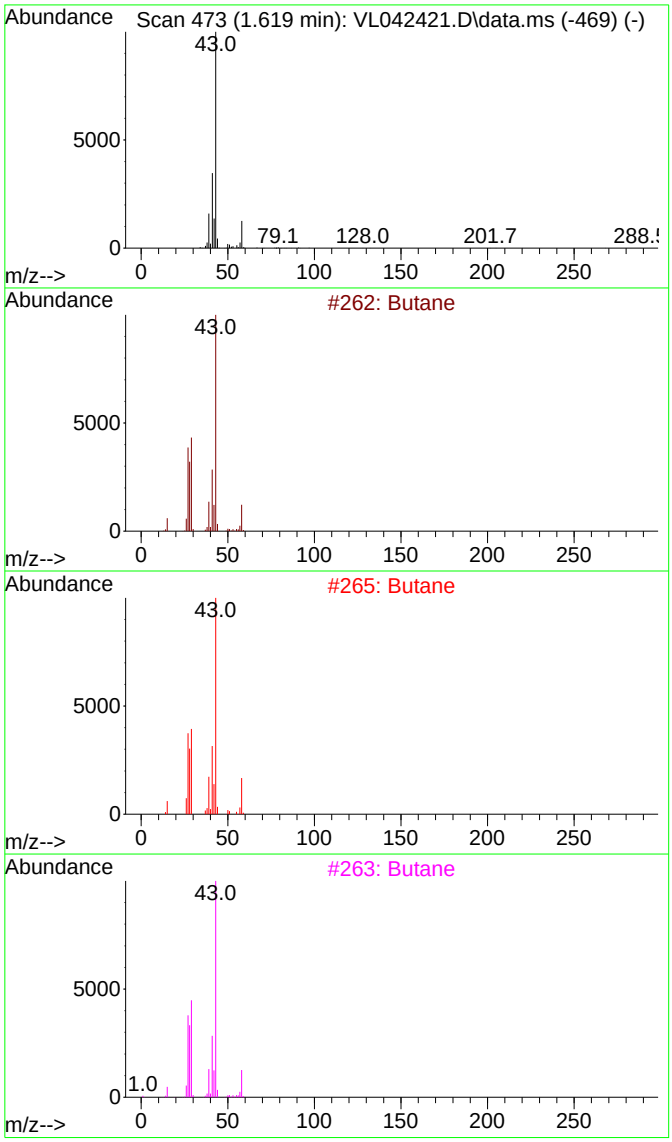
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

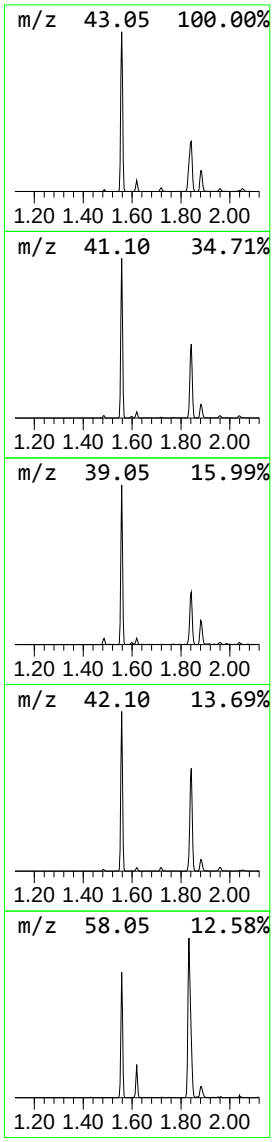
**********

Peak Number 1 Butane Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.619 | 2.41 ppbv | 131785 | Bromochloromethane | 2.781 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane | 58 | C4H10 | 000106-97-8 | 80 |
| 2 | Butane | 58 | C4H10 | 000106-97-8 | 80 |
| 3 | Butane | 58 | C4H10 | 000106-97-8 | 80 |
| 4 | Butane | 58 | C4H10 | 000106-97-8 | 58 |
| 5 | Formic acid, chloro-, (3,4,4-tri... | 194 | C7H11ClO4 | 107323-92-2 | 40 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042421.D
Acq On : 28 Apr 2025 12:17
Operator : SY/MD
Sample : Q1665-12
Misc : 400mL/MSVOA_L
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-6-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

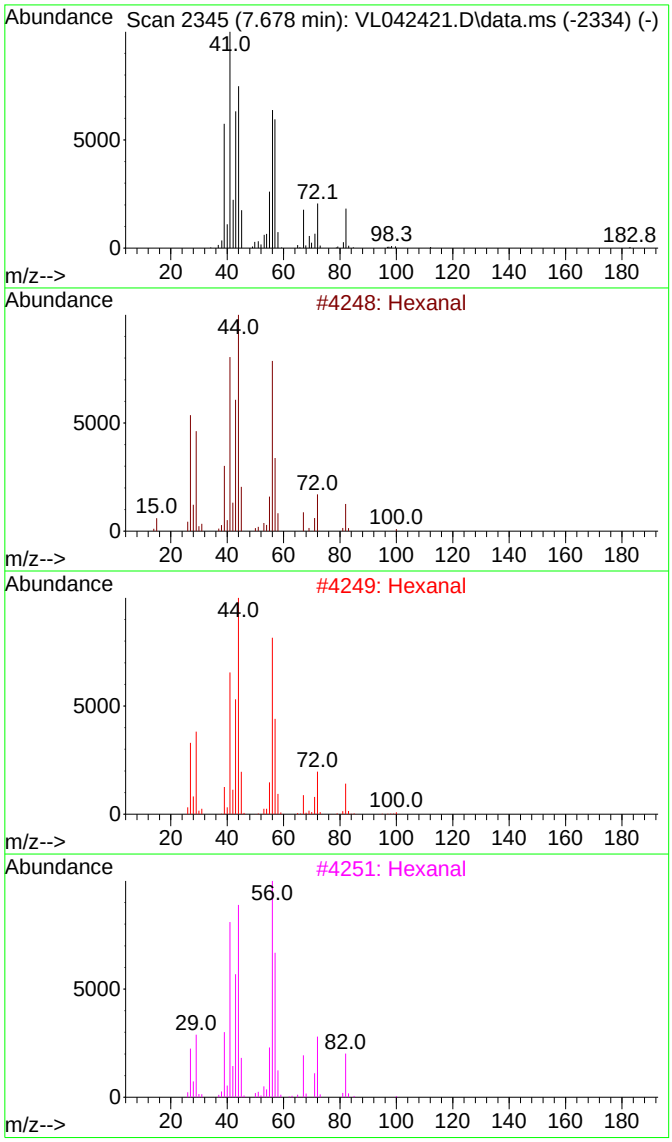
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

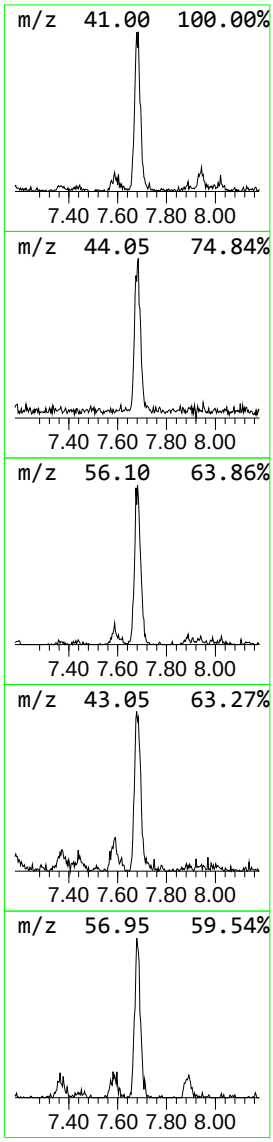
**********

Peak Number 3 Hexanal Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.678 | 1.59 ppbv | 204218 | Chlorobenzene-d5 | 8.875 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexanal | 100 | C6H12O | 000066-25-1 | 58 |
| 2 | Hexanal | 100 | C6H12O | 000066-25-1 | 58 |
| 3 | Hexanal | 100 | C6H12O | 000066-25-1 | 45 |
| 4 | Hexanal | 100 | C6H12O | 000066-25-1 | 40 |
| 5 | Hexanal | 100 | C6H12O | 000066-25-1 | 40 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042421.D
Acq On : 28 Apr 2025 12:17
Operator : SY/MD
Sample : Q1665-12
Misc : 400mL/MSVOA_L
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-6-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

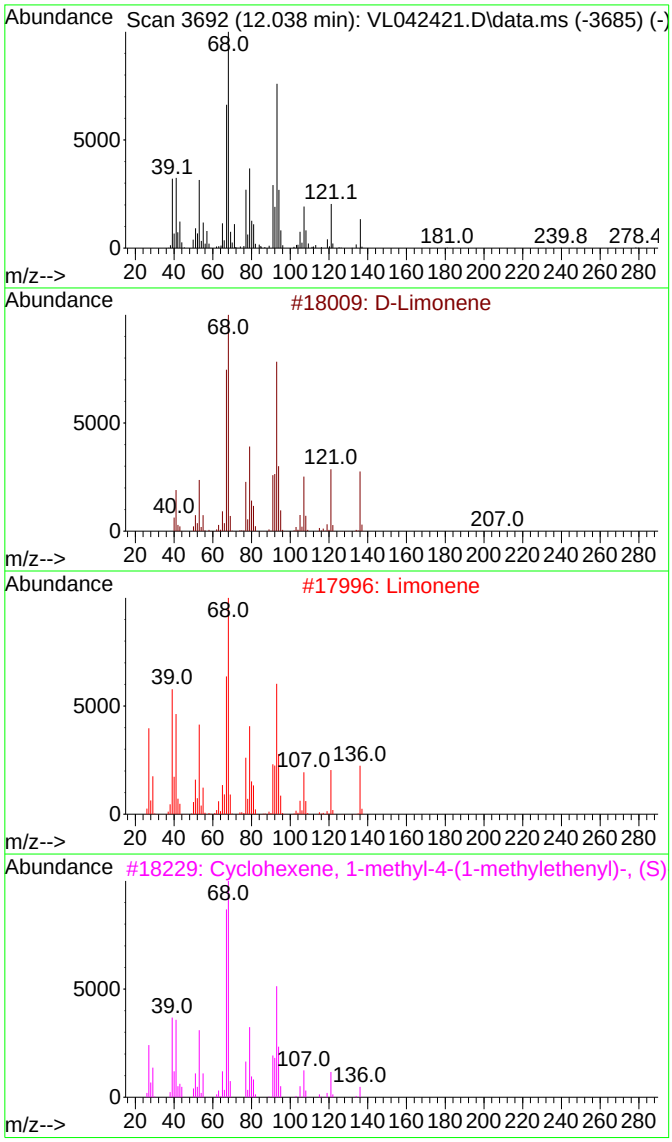
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

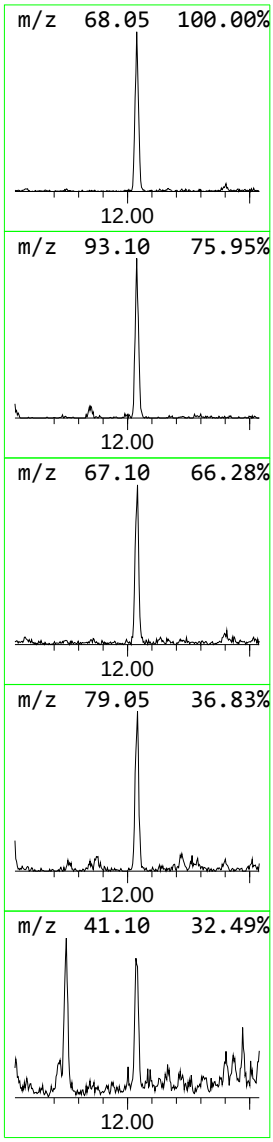
**********

Peak Number 5 D-Limonene Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.038 | 2.02 ppbv | 260220 | Chlorobenzene-d5 | 8.875 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | D-Limonene | 136 | C10H16 | 005989-27-5 | 96 |
| 2 | Limonene | 136 | C10H16 | 000138-86-3 | 94 |
| 3 | Cyclohexene, 1-methyl-4-(1-methy... | 136 | C10H16 | 005989-54-8 | 94 |
| 4 | D-Limonene | 136 | C10H16 | 005989-27-5 | 93 |
| 5 | D-Limonene | 136 | C10H16 | 005989-27-5 | 93 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042421.D
Acq On : 28 Apr 2025 12:17
Operator : SY/MD
Sample : Q1665-12
Misc : 400mL/MSVOA_L
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-6-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

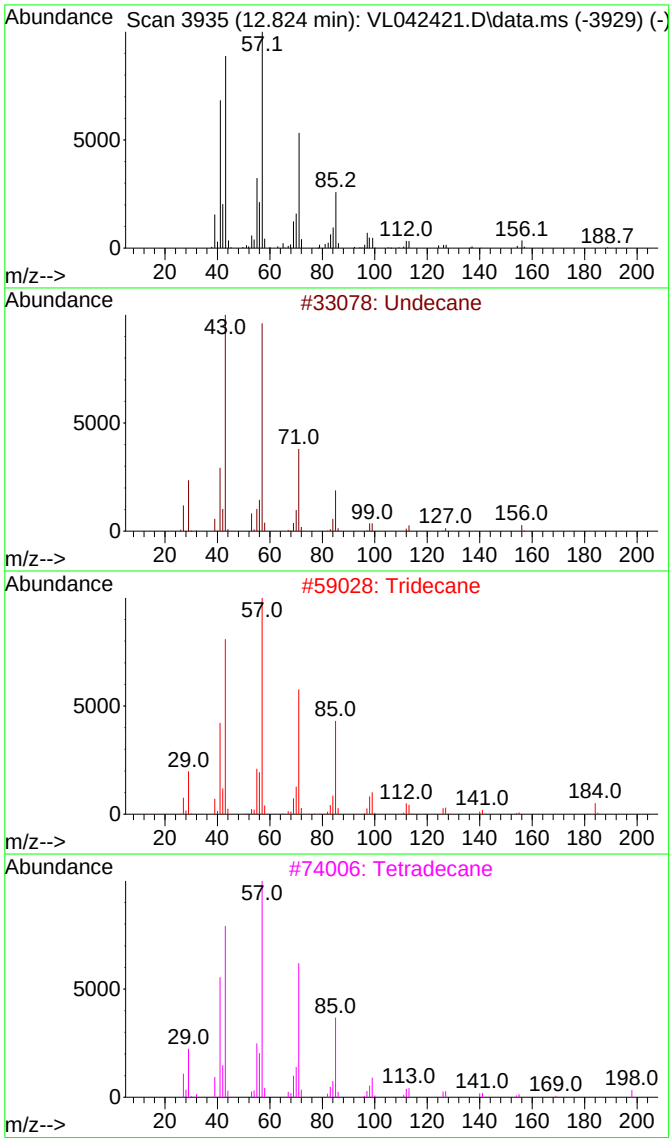
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

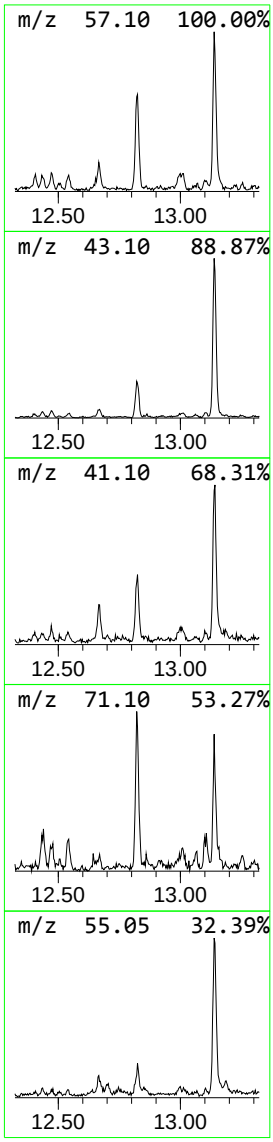
**********

Peak Number 6 Undecane Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.824 | 1.28 ppbv | 164216 | Chlorobenzene-d5 | 8.875 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Undecane | 156 | C11H24 | 001120-21-4 | 87 |
| 2 | Tridecane | 184 | C13H28 | 000629-50-5 | 80 |
| 3 | Tetradecane | 198 | C14H30 | 000629-59-4 | 72 |
| 4 | Dodecane | 170 | C12H26 | 000112-40-3 | 72 |
| 5 | Tridecane | 184 | C13H28 | 000629-50-5 | 64 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042421.D
Acq On : 28 Apr 2025 12:17
Operator : SY/MD
Sample : Q1665-12
Misc : 400mL/MSVOA_L
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-6-3242025

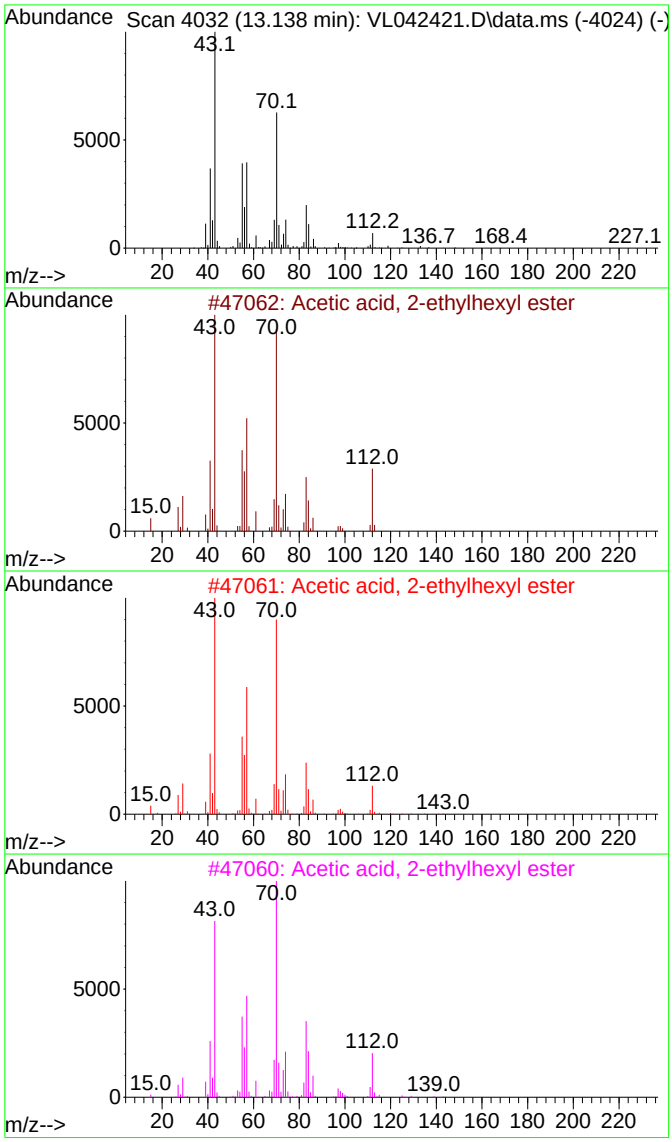
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

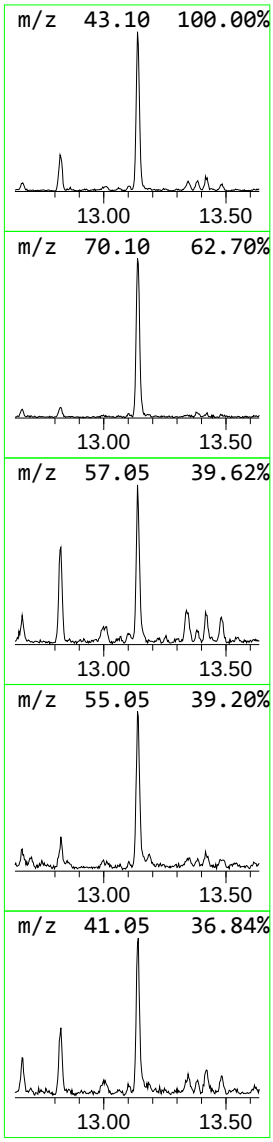
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 7 Acetic acid, 2-ethylhexyl e... Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.138 | 4.81 ppbv | 618191 | Chlorobenzene-d5 | 8.875 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Acetic acid, 2-ethylhexyl ester | 172 | C10H20O2 | 000103-09-3 | 90 |
| 2 | Acetic acid, 2-ethylhexyl ester | 172 | C10H20O2 | 000103-09-3 | 83 |
| 3 | Acetic acid, 2-ethylhexyl ester | 172 | C10H20O2 | 000103-09-3 | 83 |
| 4 | 2-Ethylhexyl acrylate | 184 | C11H20O2 | 000103-11-7 | 72 |
| 5 | 3-Methylheptyl acetate | 172 | C10H20O2 | 072218-58-7 | 72 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042421.D
Acq On : 28 Apr 2025 12:17
Operator : SY/MD
Sample : Q1665-12
Misc : 400mL/MSVOA_L
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-6-3242025

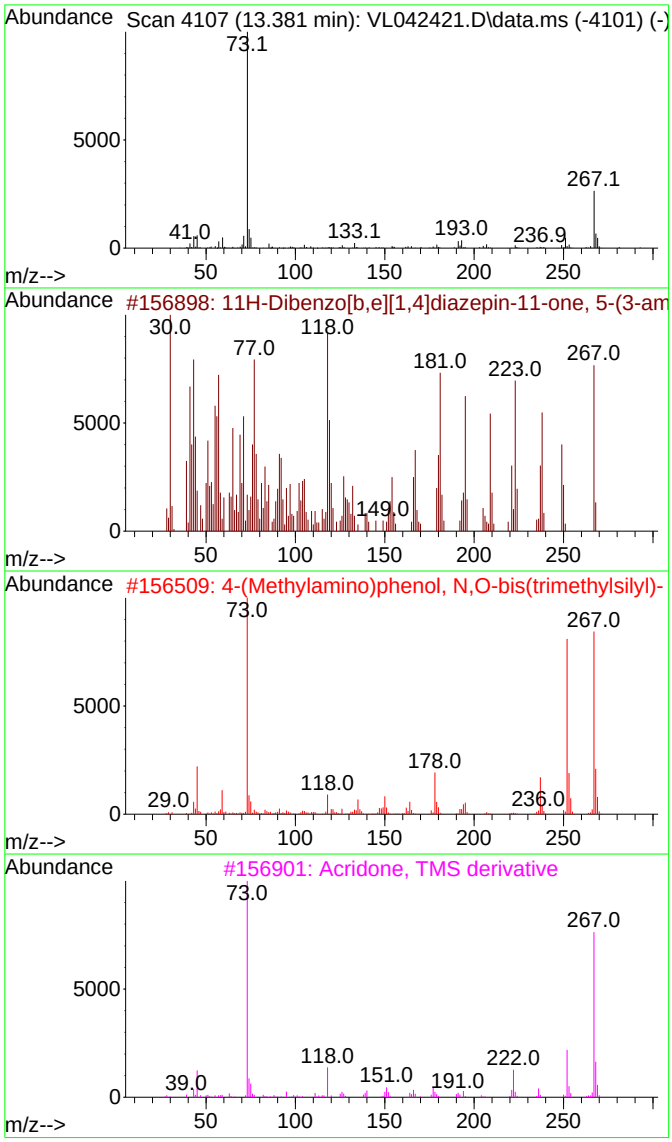
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

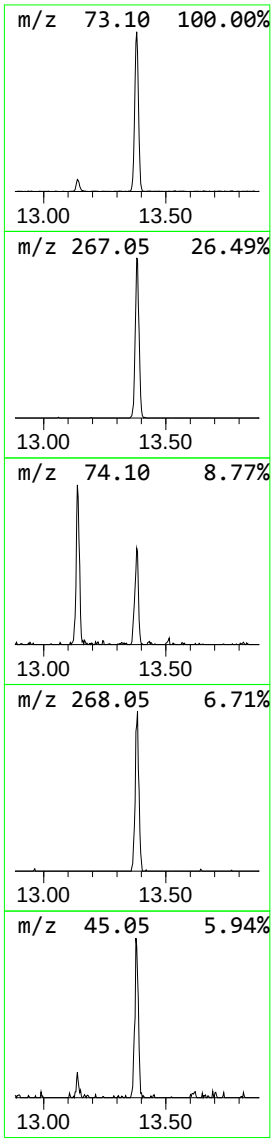
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 8 11H-Dibenzo[b,e][1,4]diazep... Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.381 | 2.30 ppbv | 295124 | Chlorobenzene-d5 | 8.875 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Dibenzo[b,e][1,4]diazepin-11... | 267 | C16H17N3O | 013450-73-2 | 93 |
| 2 | 4-(Methylamino)phenol, N,O-bis(t... | 267 | C13H25NOSi2 | 1000471-13-0 | 53 |
| 3 | Acridone, TMS derivative | 267 | C16H17NOSi | 1000478-16-0 | 50 |
| 4 | 2-Amino-m-cresol, N,O-bis(trimet... | 267 | C13H25NOSi2 | 1000449-77-1 | 50 |
| 5 | 9-Acridinol, trimethylsilyl ether | 267 | C16H17NOSi | 1000463-65-5 | 50 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042421.D
Acq On : 28 Apr 2025 12:17
Operator : SY/MD
Sample : Q1665-12
Misc : 400mL/MSVOA_L
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-6-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

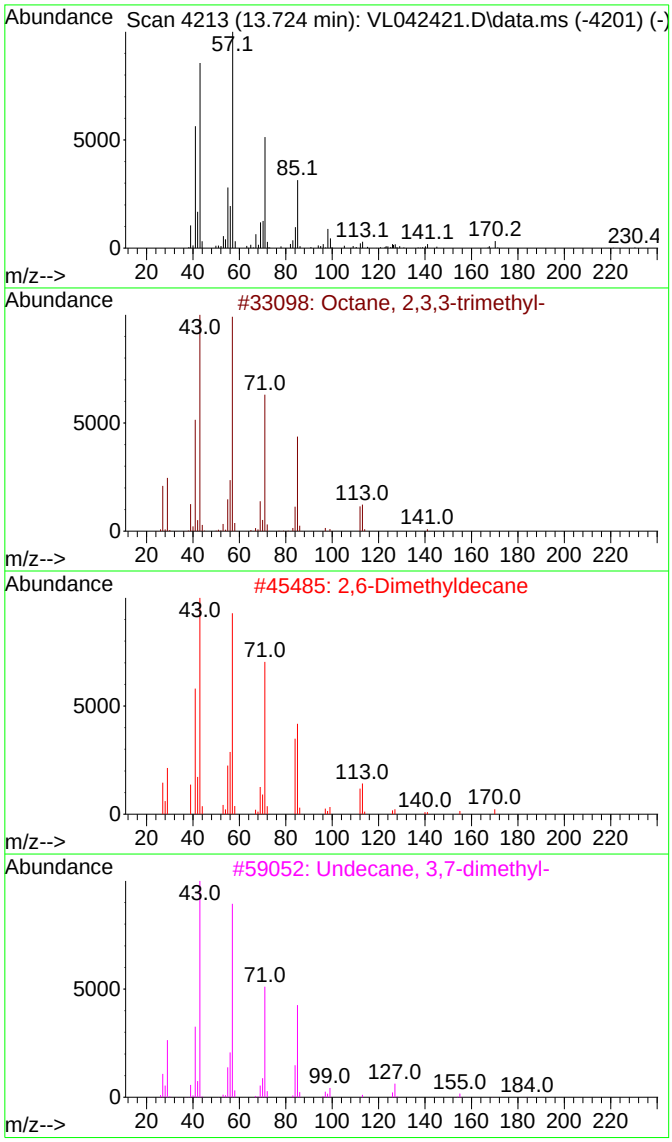
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

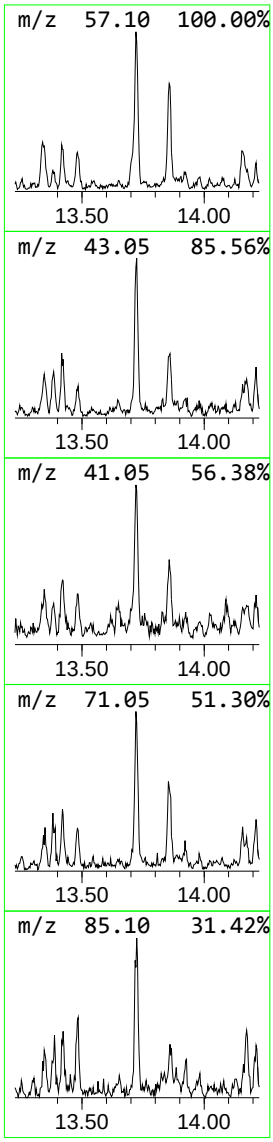
**********

Peak Number 9 Octane, 2,3,3-trimethyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.724 | 1.45 ppbv | 185976 | Chlorobenzene-d5 | 8.875 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octane, 2,3,3-trimethyl- | 156 | C11H24 | 062016-30-2 | 72 |
| 2 | 2,6-Dimethyldecane | 170 | C12H26 | 013150-81-7 | 59 |
| 3 | Undecane, 3,7-dimethyl- | 184 | C13H28 | 017301-29-0 | 59 |
| 4 | Dodecane, 2,6,11-trimethyl- | 212 | C15H32 | 031295-56-4 | 59 |
| 5 | Carbonic acid, octyl vinyl ester | 200 | C11H20O3 | 1000383-25-5 | 59 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042421.D
Acq On : 28 Apr 2025 12:17
Operator : SY/MD
Sample : Q1665-12
Misc : 400mL/MSVOA_L
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-6-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

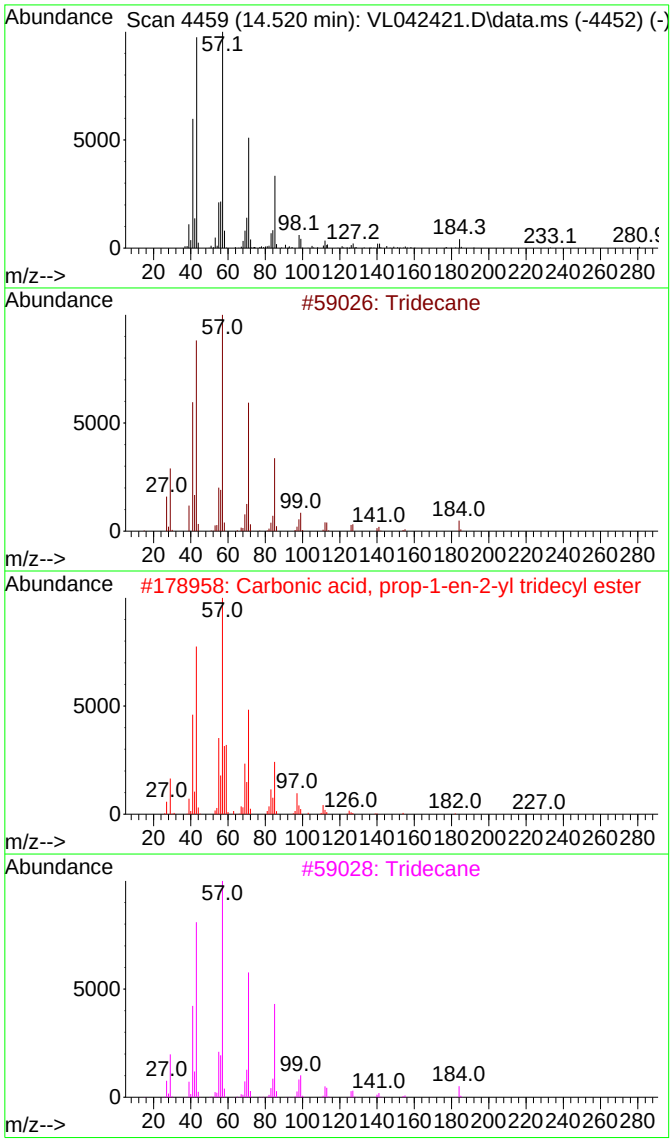
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

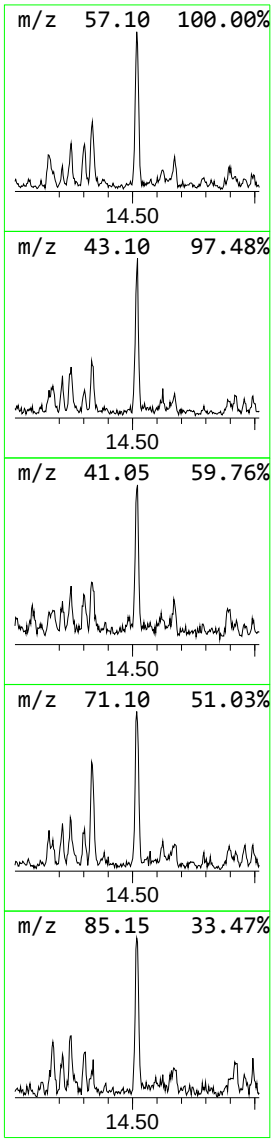
**********

Peak Number 10 Tridecane Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.520 | 1.41 ppbv | 180786 | Chlorobenzene-d5 | 8.875 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tridecane | 184 | C13H28 | 000629-50-5 | 93 |
| 2 | Carbonic acid, prop-1-en-2-yl tr... | 284 | C17H32O3 | 1000382-90-8 | 90 |
| 3 | Tridecane | 184 | C13H28 | 000629-50-5 | 87 |
| 4 | Tetradecane | 198 | C14H30 | 000629-59-4 | 86 |
| 5 | Tridecane | 184 | C13H28 | 000629-50-5 | 83 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042421.D
Acq On : 28 Apr 2025 12:17
Operator : SY/MD
Sample : Q1665-12
Misc : 400mL/MSVOA_L
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-6-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Butane | 1.619 | 2.4 | ppbv | 131785 | 1 | 2.781 | 546027 | 10.0 |
| Hexanal | 7.678 | 1.6 | ppbv | 204218 | 3 | 8.875 | 1285080 | 10.0 |
| D-Limonene | 12.038 | 2.0 | ppbv | 260220 | 3 | 8.875 | 1285080 | 10.0 |
| Undecane | 12.824 | 1.3 | ppbv | 164216 | 3 | 8.875 | 1285080 | 10.0 |
| Acetic acid, 2-... | 13.138 | 4.8 | ppbv | 618191 | 3 | 8.875 | 1285080 | 10.0 |
| 11H-Dibenzo[b,e... | 13.381 | 2.3 | ppbv | 295124 | 3 | 8.875 | 1285080 | 10.0 |
| Octane, 2,3,3-t... | 13.724 | 1.5 | ppbv | 185976 | 3 | 8.875 | 1285080 | 10.0 |
| Tridecane | 14.520 | 1.4 | ppbv | 180786 | 3 | 8.875 | 1285080 | 10.0 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B14-1-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-15 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042359.D | 1 | | 04/17/25 16:12 | VL041725 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.43 | 2.13 | J | 1.04 | 2.47 | ug/m3 |
| 64-17-5 | Ethanol | 17.3 | 32.6 | EQ | 0.60 | 0.94 | ug/m3 |
| 74-87-3 | Chloromethane | 0.66 | 1.36 | | 0.21 | 1.03 | ug/m3 |
| 75-01-4 | Vinyl Chloride | 0.010 | 0.030 | U | 0.030 | 0.080 | ug/m3 |
| 74-83-9 | Bromomethane | 0.14 | 0.54 | U | 0.54 | 1.94 | ug/m3 |
| 75-00-3 | Chloroethane | 0.17 | 0.45 | U | 0.45 | 1.32 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | 0.13 | 0.38 | U | 0.38 | 1.47 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | 0.21 | 1.18 | J | 0.90 | 2.81 | ug/m3 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.16 | 1.23 | U | 1.23 | 3.83 | ug/m3 |
| 76-14-2 | Dichlorotetrafluoroethane | 0.090 | 0.63 | U | 0.63 | 3.49 | ug/m3 |
| 593-60-2 | Bromoethene | 0.12 | 0.52 | U | 0.52 | 2.19 | ug/m3 |
| 75-65-0 | tert-Butyl alcohol | 0.19 | 0.58 | U | 0.58 | 1.52 | ug/m3 |
| 142-82-5 | Heptane | 0.15 | 0.61 | J | 0.45 | 2.05 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | 130 | 320 | E | 0.17 | 1.23 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethene | 0.14 | 0.56 | U | 0.56 | 1.98 | ug/m3 |
| 67-64-1 | Acetone | 38.4 | 91.2 | E | 0.57 | 1.19 | ug/m3 |
| 75-15-0 | Carbon Disulfide | 0.16 | 0.50 | U | 0.50 | 1.56 | ug/m3 |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.12 | 0.43 | U | 0.43 | 1.80 | ug/m3 |
| 75-09-2 | Methylene Chloride | 1.20 | 4.17 | | 0.66 | 1.74 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.19 | 0.75 | U | 0.75 | 1.98 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | 0.13 | 0.53 | U | 0.53 | 2.02 | ug/m3 |
| 110-82-7 | Cyclohexane | 0.22 | 0.76 | U | 0.76 | 1.72 | ug/m3 |
| 78-93-3 | 2-Butanone | 0.74 | 2.18 | | 0.35 | 1.47 | ug/m3 |
| 56-23-5 | Carbon Tetrachloride | 0.080 | 0.50 | | 0.060 | 0.19 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.090 | 0.36 | U | 0.36 | 1.98 | ug/m3 |
| 67-66-3 | Chloroform | 0.21 | 1.03 | J | 0.39 | 2.44 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.040 | 0.22 | | 0.050 | 0.16 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | 0.18 | 0.84 | J | 0.47 | 2.34 | ug/m3 |
| 71-43-2 | Benzene | 0.24 | 0.77 | J | 0.29 | 1.60 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | 0.090 | 0.36 | U | 0.36 | 2.02 | ug/m3 |
| 79-01-6 | Trichloroethene | 0.020 | 0.11 | U | 0.11 | 0.16 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | 0.11 | 0.51 | U | 0.51 | 2.31 | ug/m3 |
| 75-27-4 | Bromodichloromethane | 0.080 | 0.54 | U | 0.54 | 3.35 | ug/m3 |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.14 | 0.57 | J | 0.37 | 2.05 | ug/m3 |
| 108-88-3 | Toluene | 0.88 | 3.32 | | 0.41 | 1.88 | ug/m3 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B14-1-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-15 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042359.D | 1 | | 04/17/25 16:12 | VL041725 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.060 | 0.27 | U | 0.27 | 2.27 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.060 | 0.27 | U | 0.27 | 2.27 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.070 | 0.38 | U | 0.38 | 2.73 | ug/m3 |
| 124-48-1 | Dibromochloromethane | 0.070 | 0.60 | U | 0.60 | 4.26 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane | 0.070 | 0.54 | U | 0.54 | 0.77 | ug/m3 |
| 127-18-4 | Tetrachloroethene | 0.020 | 0.14 | U | 0.14 | 0.20 | ug/m3 |
| 108-90-7 | Chlorobenzene | 0.080 | 0.37 | U | 0.37 | 2.30 | ug/m3 |
| 100-41-4 | Ethyl Benzene | 5.00 | 21.7 | | 0.52 | 2.17 | ug/m3 |
| 179601-23-1 | m/p-Xylene | 21.3 | 92.5 | | 0.91 | 4.34 | ug/m3 |
| 95-47-6 | o-Xylene | 4.10 | 17.8 | | 0.52 | 2.17 | ug/m3 |
| 100-42-5 | Styrene | 0.11 | 0.47 | U | 0.47 | 2.13 | ug/m3 |
| 75-25-2 | Bromoform | 0.060 | 0.62 | U | 0.62 | 5.17 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.010 | 0.070 | U | 0.070 | 0.21 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | 0.11 | 0.57 | U | 0.57 | 2.59 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.11 | 0.54 | J | 0.54 | 2.46 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.27 | 1.33 | J | 0.39 | 2.46 | ug/m3 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.080 | 0.48 | U | 0.48 | 3.01 | ug/m3 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.050 | 0.30 | U | 0.30 | 3.01 | ug/m3 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.080 | 0.48 | U | 0.48 | 3.01 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.090 | 0.67 | U | 0.67 | 3.71 | ug/m3 |
| 87-68-3 | Hexachloro-1,3-Butadiene | 0.090 | 0.96 | U | 0.96 | 5.33 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | 0.13 | 0.29 | U | 0.29 | 1.11 | ug/m3 |
| 91-20-3 | Naphthalene | 0.14 | 0.73 | | 0.42 | 0.52 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | 0.12 | 0.59 | U | 0.59 | 2.46 | ug/m3 |
| 110-54-3 | Hexane | 2.70 | 9.52 | | 0.39 | 1.76 | ug/m3 |
| 107-05-1 | Allyl Chloride | 0.15 | 0.47 | U | 0.47 | 1.57 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | 1.00 | 3.60 | | 0.76 | 1.80 | ug/m3 |
| 80-62-6 | Methyl Methacrylate | 0.090 | 0.37 | U | 0.37 | 2.05 | ug/m3 |
| **SURROGATES** | | | | | | | |
| 460-00-4 | 1-Bromo-4-Fluorobenzene | 10.1 | | | 70 (65) - 130 (135) | 101% | SPK: 10 |
| **INTERNAL STANDARDS** | | | | | | | |
| 74-97-5 | Bromochloromethane | 123000 | | 2.787 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 354000 | | 3.962 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 318000 | | 8.882 | | | |
| **TENTITIVE IDENTIFIED COMPOUNDS** | | | | | | | |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B14-1-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-15 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042359.D | 1 | | 04/17/25 16:12 | VL041725 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 75-45-6 | Chlorodifluoromethane | 0.31 | | J | | 1.48 | ppbv |
| 115-07-1 | Propene | 1.60 | | J | | 1.49 | ppbv |
| 000106-97-8 | Butane | 1.20 | | J | | 1.62 | ppbv |
| 000107-39-1 | 1-Pentene, 2,4,4-trimethyl- | 1.60 | | J | | 5.32 | ppbv |
| 591-78-6 | 2-Hexanone | 1.50 | | J | | 7.44 | ppbv |
| 000106-70-7 | Hexanoic acid, methyl ester | 4.30 | | J | | 10.5 | ppbv |
| 000106-73-0 | Heptanoic acid, methyl ester | 10.6 | | J | | 11.8 | ppbv |
| 000111-11-5 | Octanoic acid, methyl ester | 6.40 | | J | | 12.9 | ppbv |
| 91-57-6 | Naphthalene,2-methyl- | 0.15 | | J | | 14.5 | ppbv |

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
Q = indicates LCS control criteria did not meet requirements

Quantitation Report (LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042359.D
Acq On : 17 Apr 2025 16:12
Operator : SY/MD
Sample : Q1665-15
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 02:37:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) Bromochloromethane | 2.787 | 49 | 123457 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.962 | 114 | 354157 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.882 | 117 | 318284 | 10.000 | ppbv | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95 | 265265 | 10.142 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 101.400% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.499 | 85 | 9411 | 0.431 | ppbv | | 90 |
| 3) Chlorodifluoromethane | 1.476 | 51 | 6345m | 0.305 | ppbv | | |
| 4) Chloromethane | 1.531 | 50 | 5667 | 0.657 | ppbv | | 96 |
| 9) Propene | 1.489 | 41 | 15185 | 1.605 | ppbv | | 84 |
| 10) Heptane | 4.975 | 43 | 3917m | 0.147 | ppbv | | |
| 11) Trichlorofluoromethane | 1.877 | 101 | 4367 | 0.211 | ppbv | | 92 |
| 13) Ethanol | 1.722 | 45 | 25940 | 17.253 | ppbv | | 75 |
| 15) Acetone | 1.835 | 43 | 775779 | 38.385 | ppbv | | 99 |
| 17) tert-Butyl alcohol | 2.046 | 59 | 3528 | 0.141 | ppbv | # | 74 |
| 19) Isopropyl Alcohol | 1.887 | 45 | 1485068 | 132.276 | ppbv | # | 56 |
| 20) Methylene Chloride | 2.062 | 84 | 9718 | 1.228 | ppbv | # | 92 |
| 26) Hexane | 2.826 | 57 | 54108 | 2.683 | ppbv | # | 32 |
| 29) Chloroform | 2.852 | 83 | 5846 | 0.205 | ppbv | | 85 |
| 32) 1,1,1-Trichloroethane | 3.370 | 97 | 1146m | 0.036 | ppbv | | |
| 34) 2-Butanone | 2.560 | 43 | 20685 | 0.739 | ppbv | | 98 |
| 35) Carbon Tetrachloride | 3.761 | 117 | 2635m | 0.082 | ppbv | | |
| 36) Benzene | 3.658 | 78 | 9024m | 0.236 | ppbv | | |
| 40) 1,4-Dioxane | 4.596 | 88 | 7820m | 1.000 | ppbv | | |
| 44) 2,2,4-Trimethylpentane | 4.642 | 57 | 12166m | 0.184 | ppbv | | |
| 50) 4-Methyl-2-Pentanone | 5.774 | 43 | 6399m | 0.137 | ppbv | | |
| 51) 2-Hexanone | 7.438 | 43 | 61191m | 1.466 | ppbv | | |
| 53) Toluene | 6.936 | 91 | 40500 | 0.884 | ppbv | | 97 |
| 58) Ethyl Benzene | 9.354 | 91 | 315931 | 5.010 | ppbv | | 99 |
| 59) m/p-Xylene | 9.532 | 91 | 1082733 | 21.313 | ppbv | | 100 |
| 60) o-Xylene | 9.963 | 91 | 207265 | 4.051 | ppbv | | 98 |
| 73) 1,3,5-Trimethylbenzene | 11.202 | 105 | 6133 | 0.111 | ppbv | | 90 |
| 74) 1,2,4-Trimethylbenzene | 11.536 | 105 | 17646 | 0.274 | ppbv | # | 70 |
| 79) Naphthalene | 13.513 | 128 | 10816 | 0.140 | ppbv | | 97 |
| 80) Naphthalene,2-methyl- | 14.462 | 142 | 6445m | 0.147 | ppbv | | |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

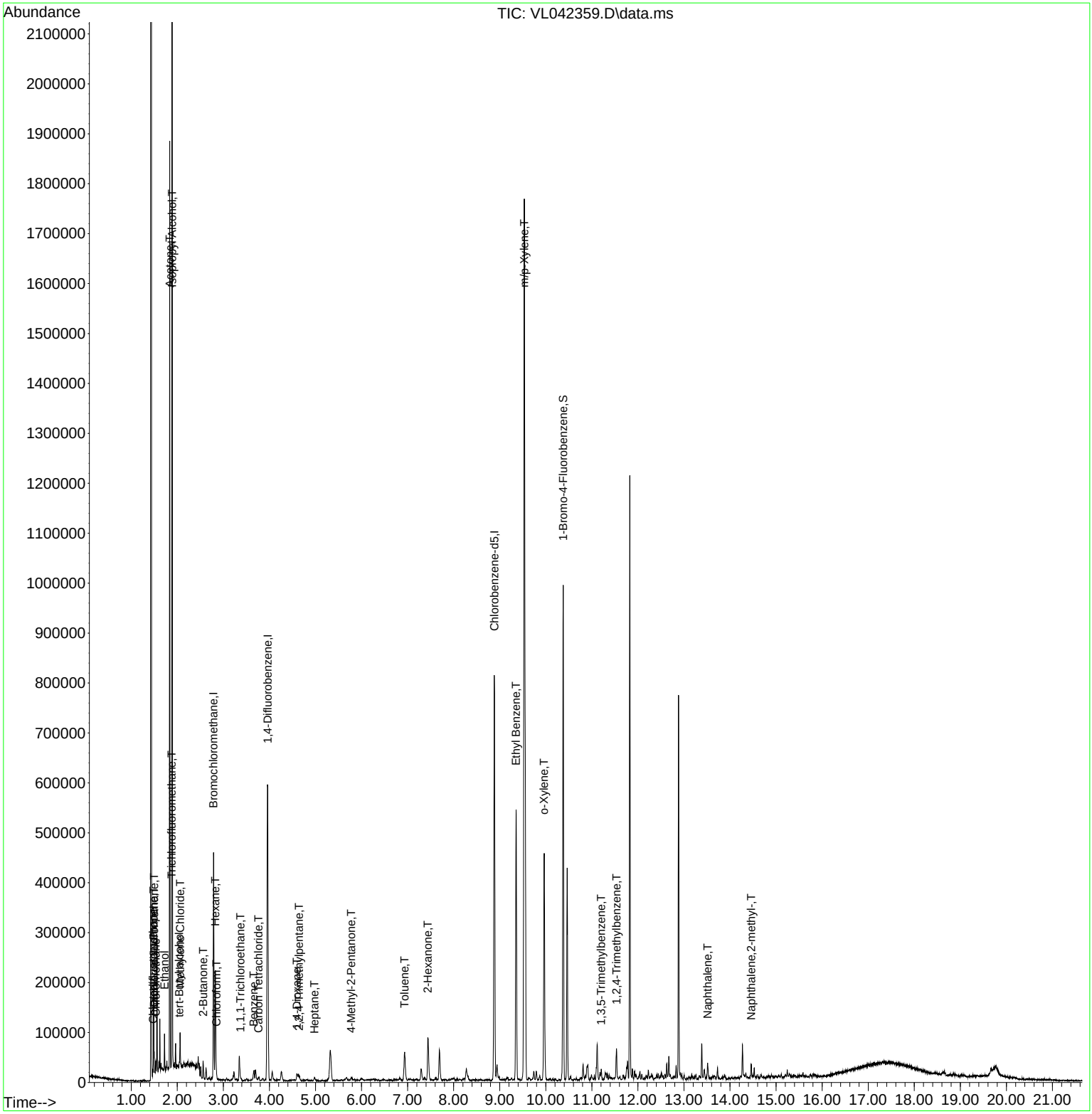
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042359.D
Acq On : 17 Apr 2025 16:12
Operator : SY/MD
Sample : Q1665-15
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

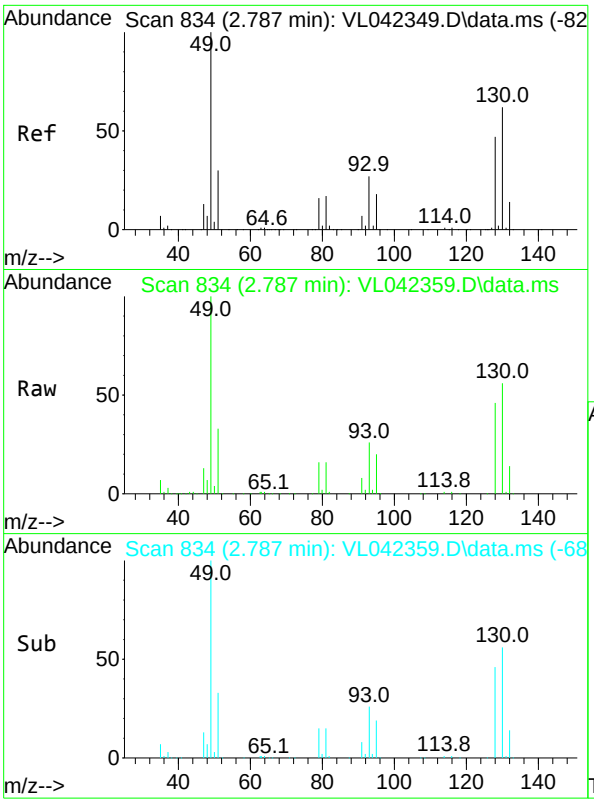
Quant Time: Apr 18 02:37:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

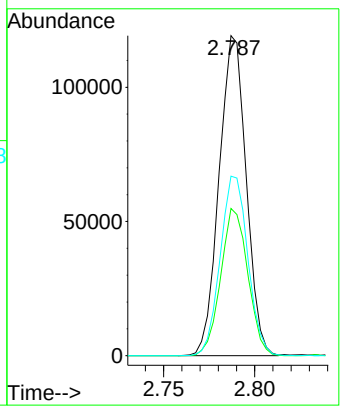





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 49 Resp: 12345

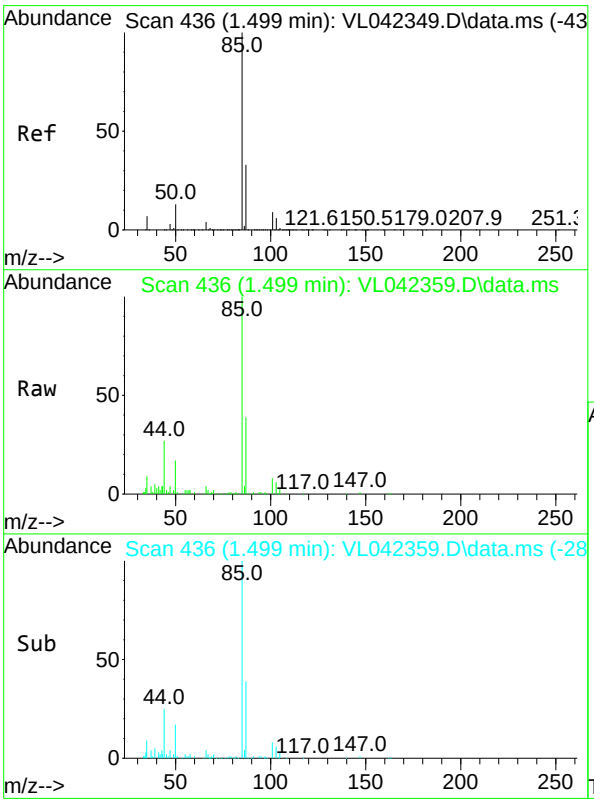
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 46.0 | 22.8 | 68.4 |
| 130 | 57.2 | 29.3 | 88.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025

**Manual Integrations**
**APPROVED**

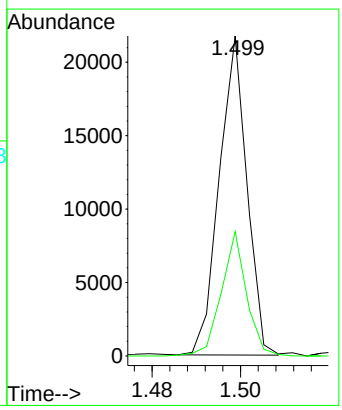
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

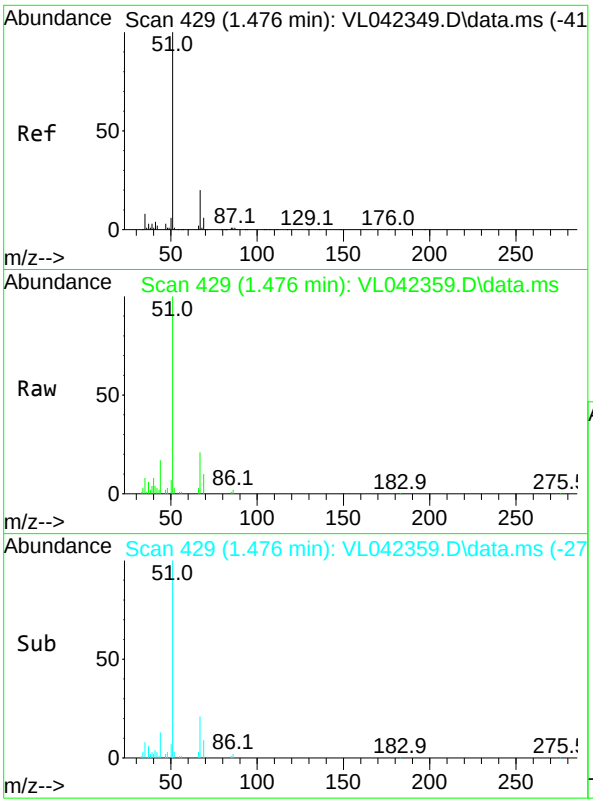



#2
Dichlorodifluoromethane
Concen: 0.431 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 85 Resp: 9411

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 38.7 | 26.6 | 39.8 |

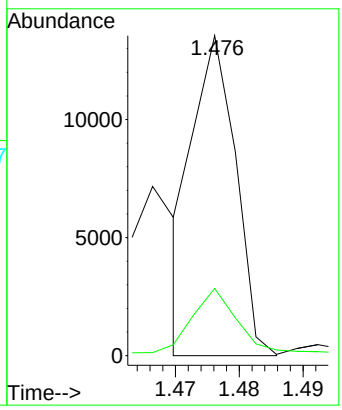





#3
Chlorodifluoromethane
Concen: 0.305 ppbv m
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 51 Resp: 634

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 8.2 | 16.2 | 24.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025

**Manual Integrations**
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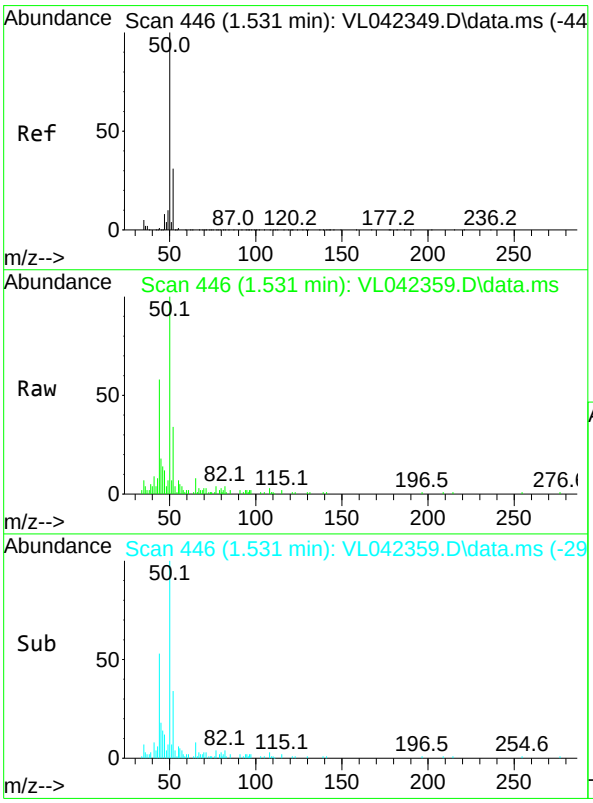
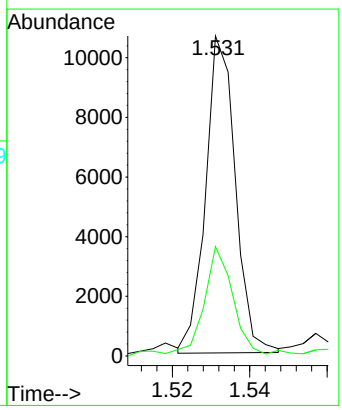
Supervised By :Mahesh Dadoda 04/18/2025

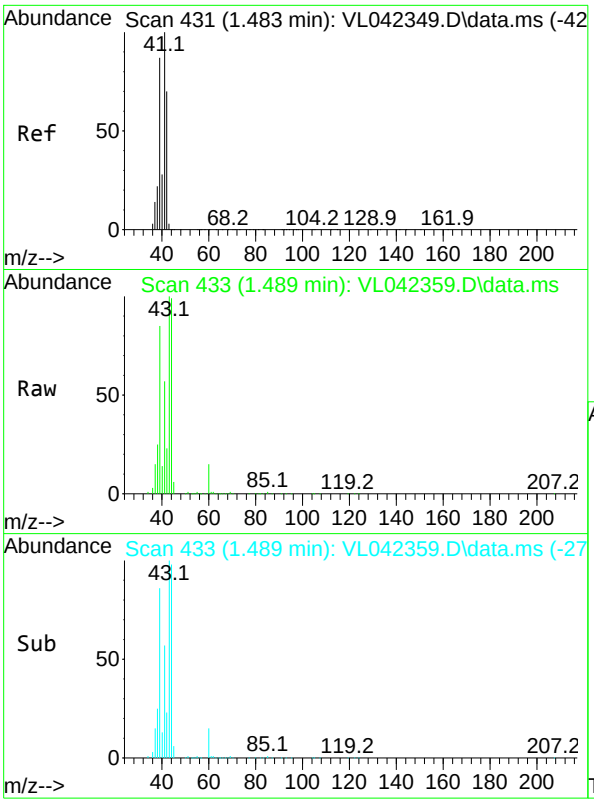



#4
Chloromethane
Concen: 0.657 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 50 Resp: 5667

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.3 | 24.7 | 37.1 |

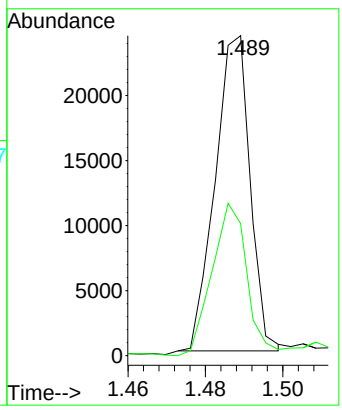





#9
Propene
Concen: 1.605 ppbv
RT: 1.489 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 41 Resp: 1518

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 57.1 | 56.2 | 84.4 |

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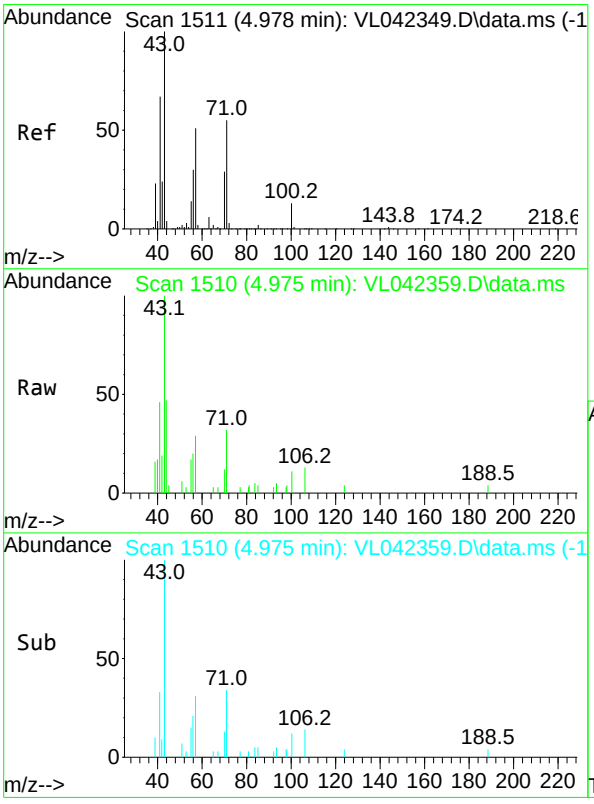
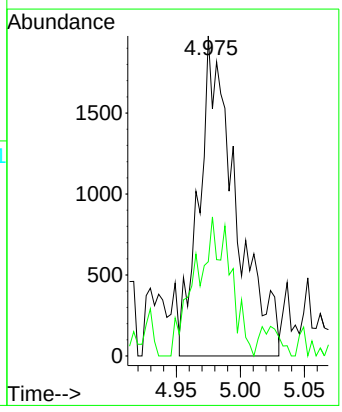
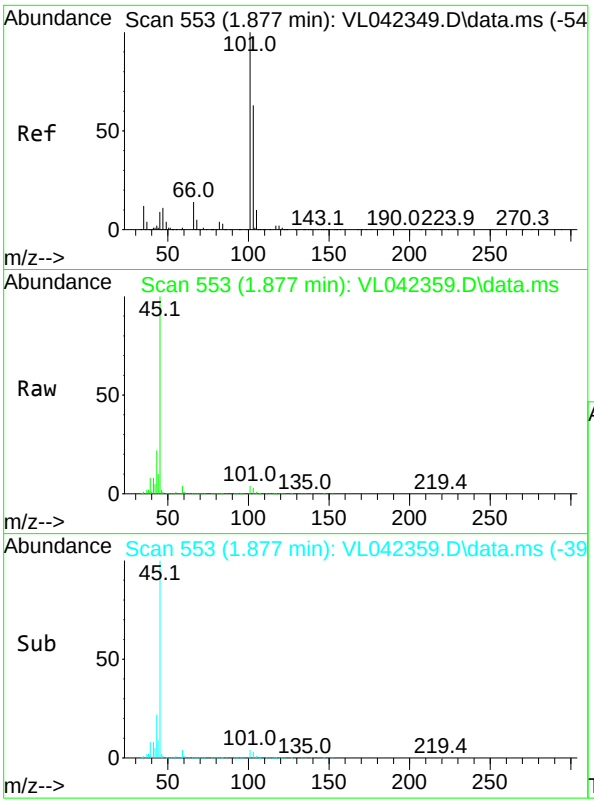



#10
Heptane
Concen: 0.147 ppbv m
RT: 4.975 min Scan# 1510
Delta R.T. -0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 43 Resp: 3917

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 45.4 | 39.9 | 59.9 |

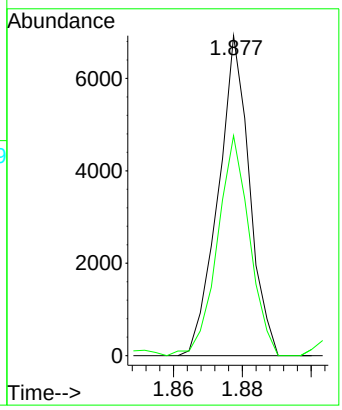





#11
Trichlorofluoromethane
Concen: 0.211 ppbv
RT: 1.877 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion:101 Resp: 436

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 68.8 | 50.1 | 75.1 |

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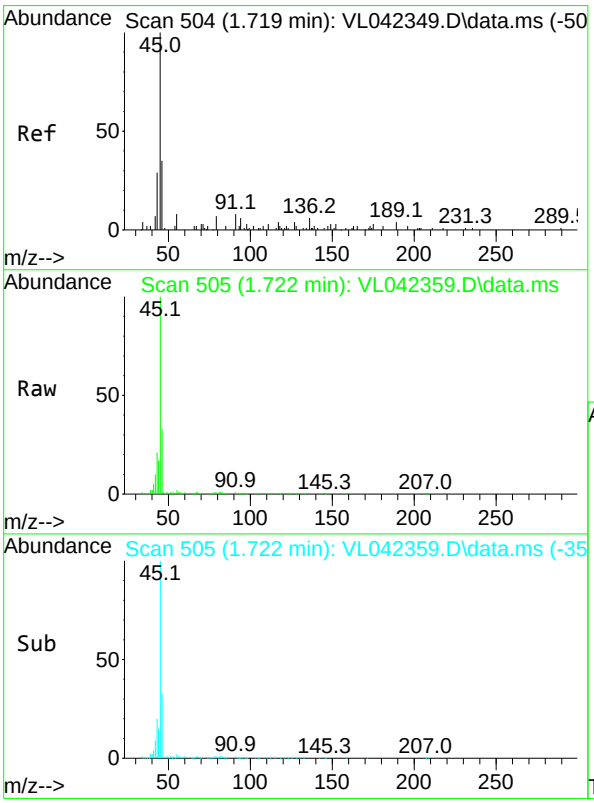
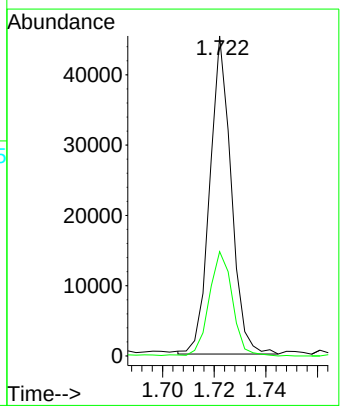
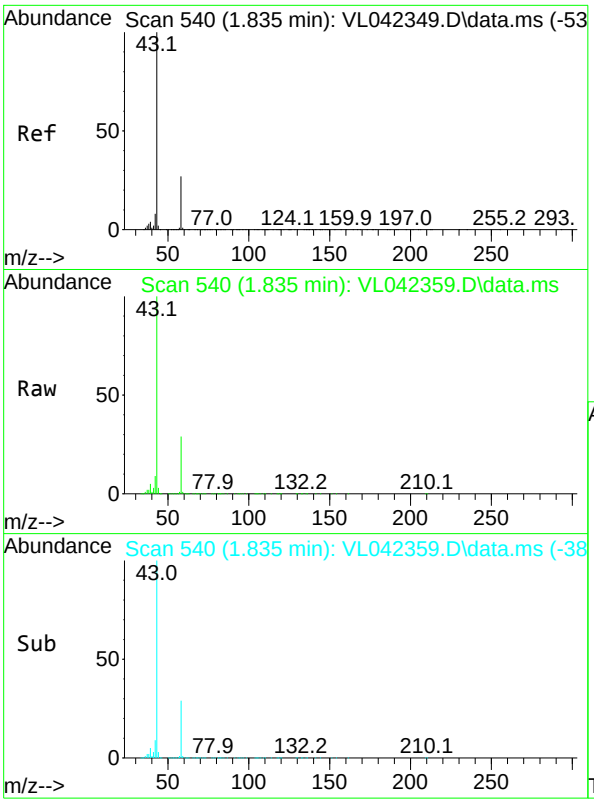



#13
Ethanol
Concen: 17.253 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 45 Resp: 25940

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 36.5 | 21.9 | 87.7 |

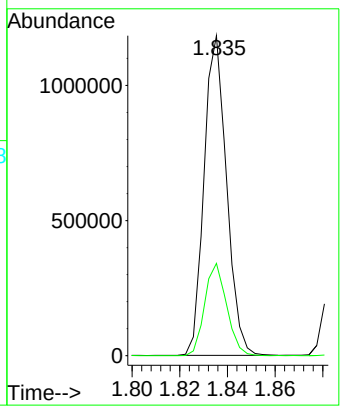





#15
Acetone
Concen: 38.385 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 43 Resp: 775779

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 28.3 | 22.4 | 33.6 |




**Instrument :**
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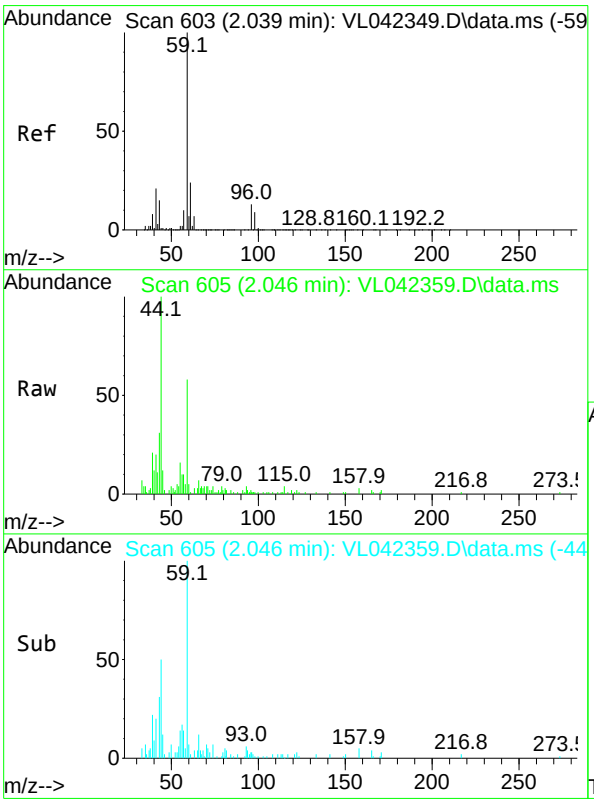
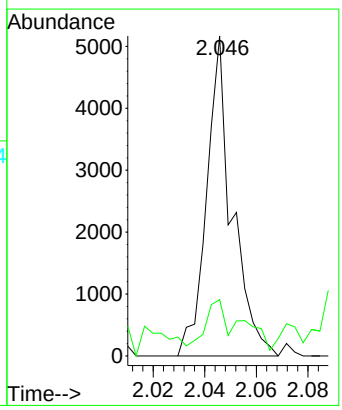
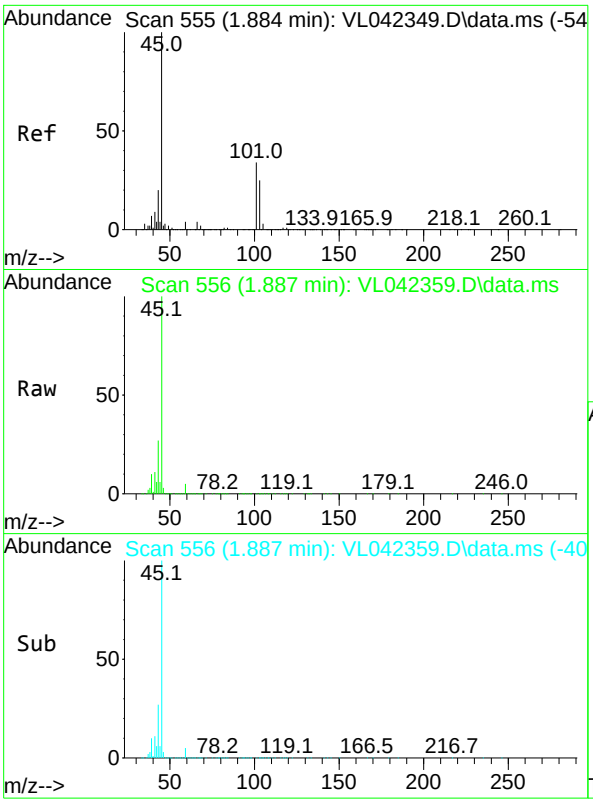



#17
tert-Butyl alcohol
Concen: 0.141 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.006 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 59 Resp: 3528

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 20.6 | 8.7 | 13.1# |






#19
Isopropyl Alcohol
Concen: 132.276 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 45 Resp: 148506

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 14.8 | 34.5 | 51.7# |

**Instrument :**
MSVOA_L
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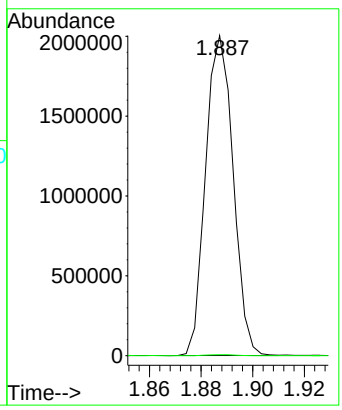
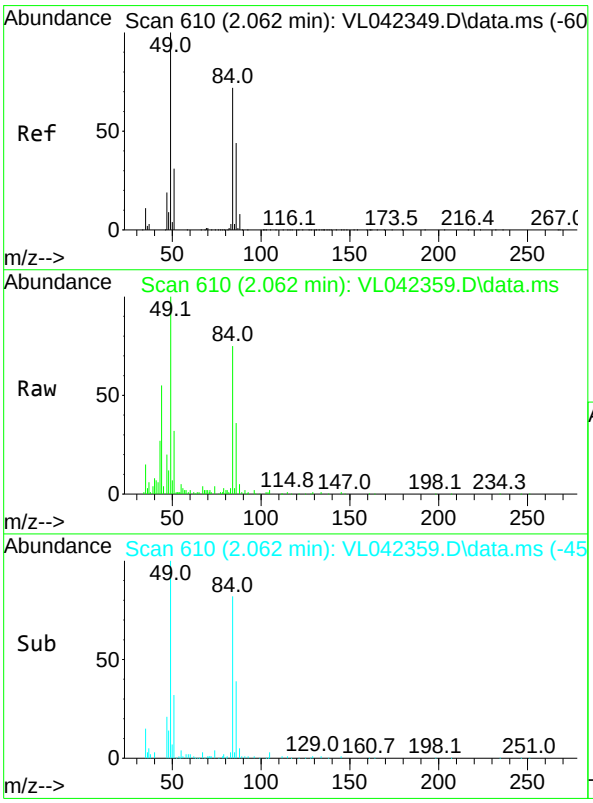
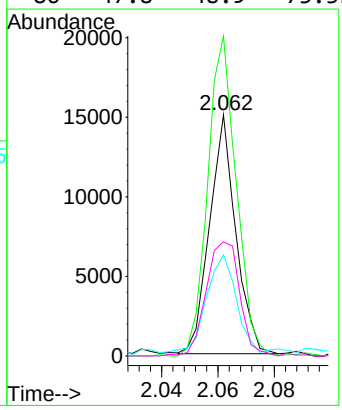


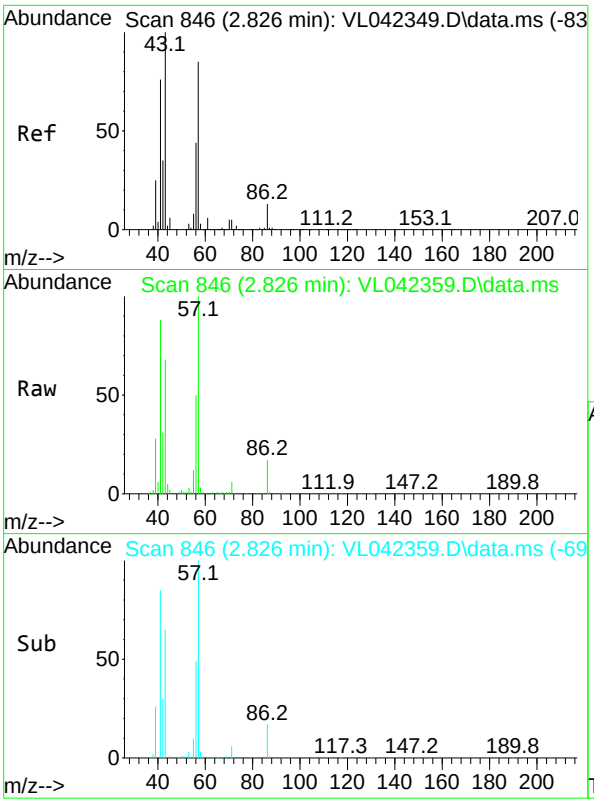




#20
Methylene Chloride
Concen: 1.228 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 84 Resp: 9718

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 134.0 | 111.6 | 167.4 |
| 51 | 39.7 | 35.1 | 52.7 |
| 86 | 47.8 | 48.9 | 73.3# |

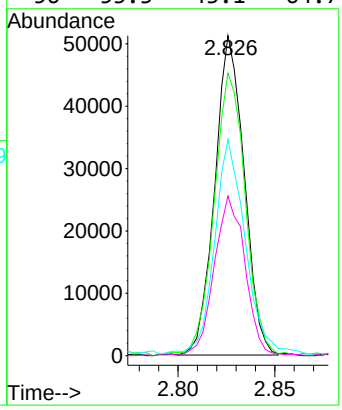





#26
Hexane
Concen: 2.683 ppbv
RT: 2.826 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 57 Resp: 5410

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 93.4 | 77.9 | 116.9 |
| 43 | 70.0 | 208.4 | 312.6 |
| 56 | 53.3 | 43.1 | 64.7 |




**Instrument :**
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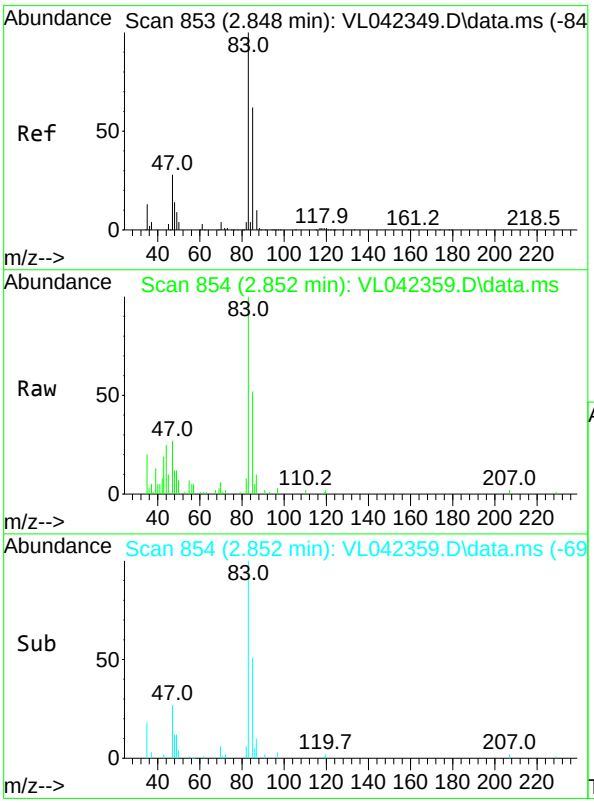
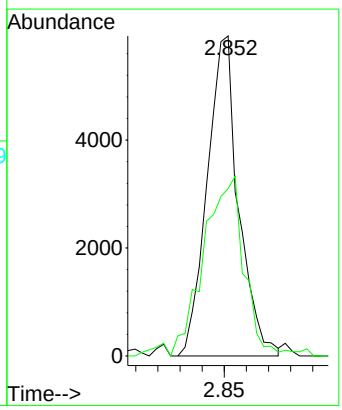
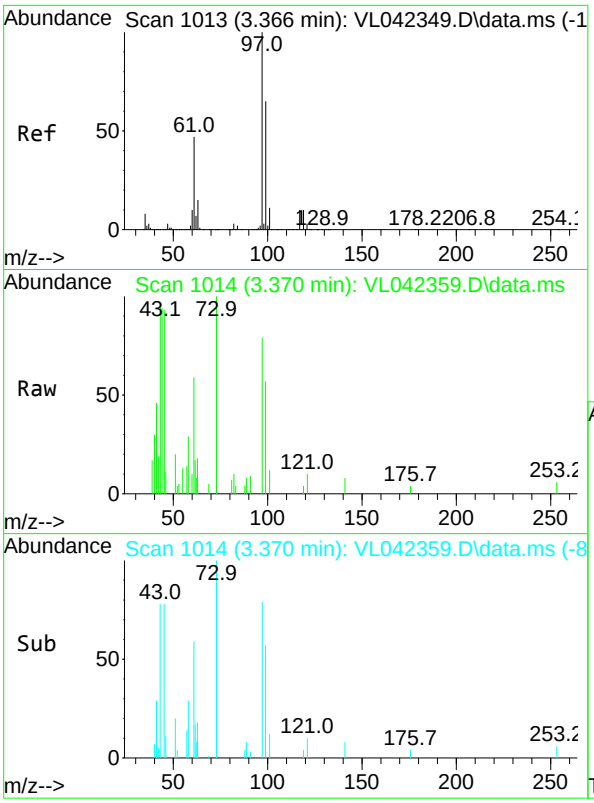



#29
Chloroform
Concen: 0.205 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 83 Resp: 5846

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 51.1 | 50.0 | 75.0 |

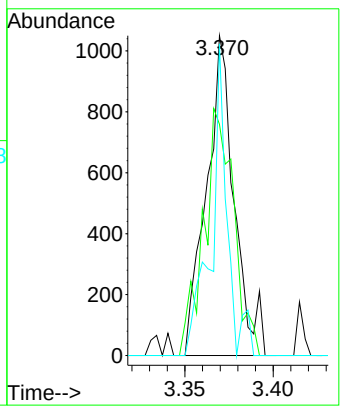





#32
1,1,1-Trichloroethane
Concen: 0.036 ppbv m
RT: 3.370 min Scan# 1(
Delta R.T. 0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 97 Resp: 114(

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 83.5 | 51.0 | 76.4# |
| 61 | 56.3 | 38.8 | 58.2 |

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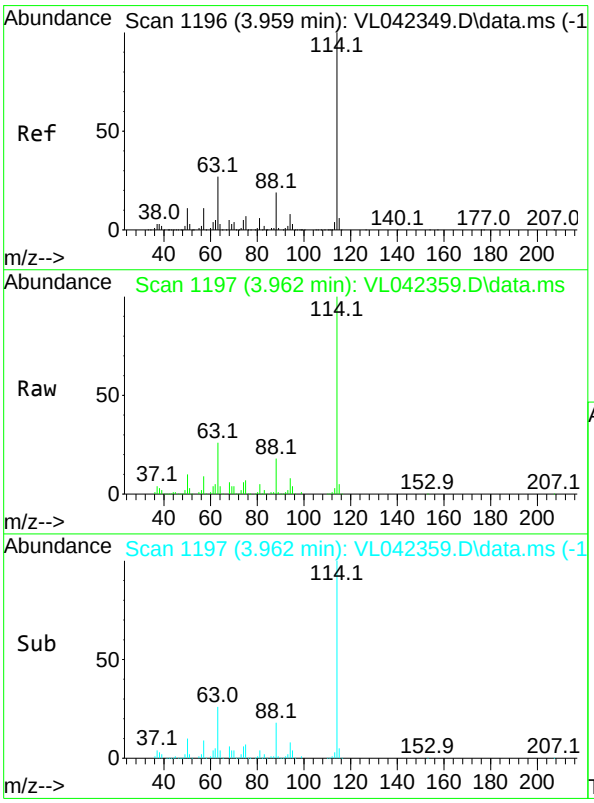
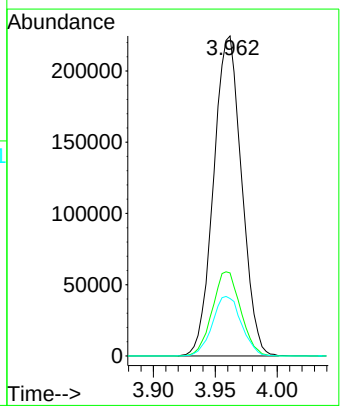
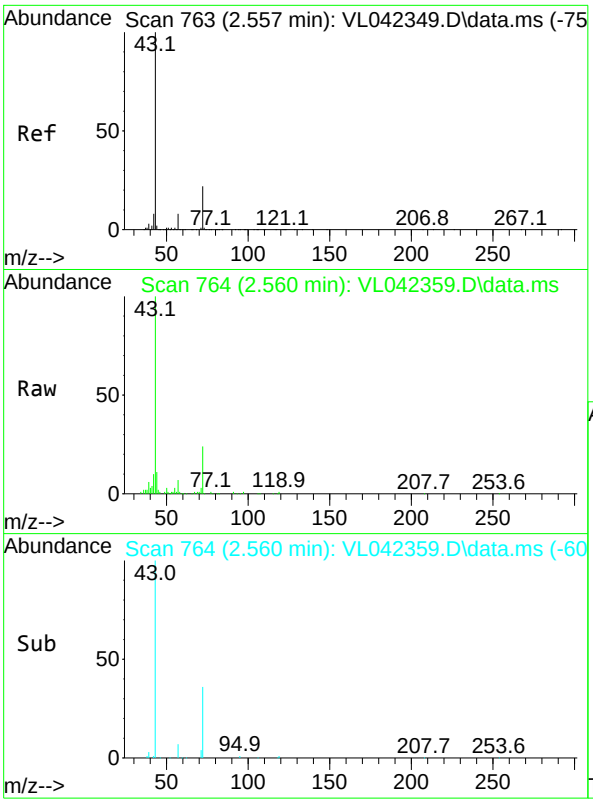



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion:114 Resp: 354157

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 26.6 | 21.8 | 32.6 |
| 88 | 19.2 | 15.5 | 23.3 |

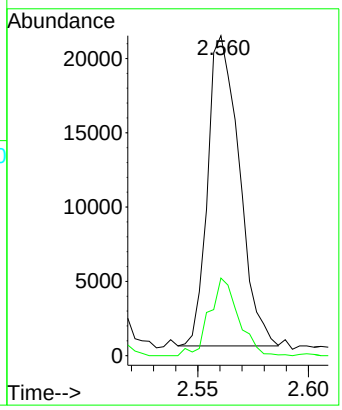





#34
2-Butanone
Concen: 0.739 ppbv
RT: 2.560 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 43 Resp: 2068

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 23.5 | 18.2 | 27.2 |

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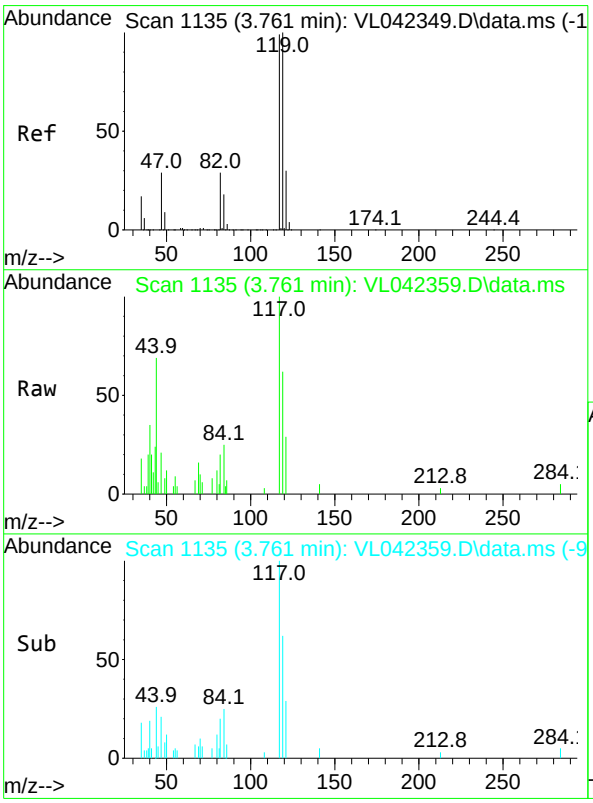
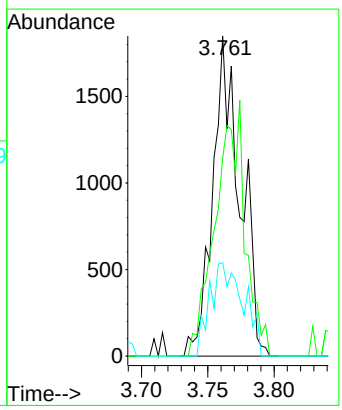
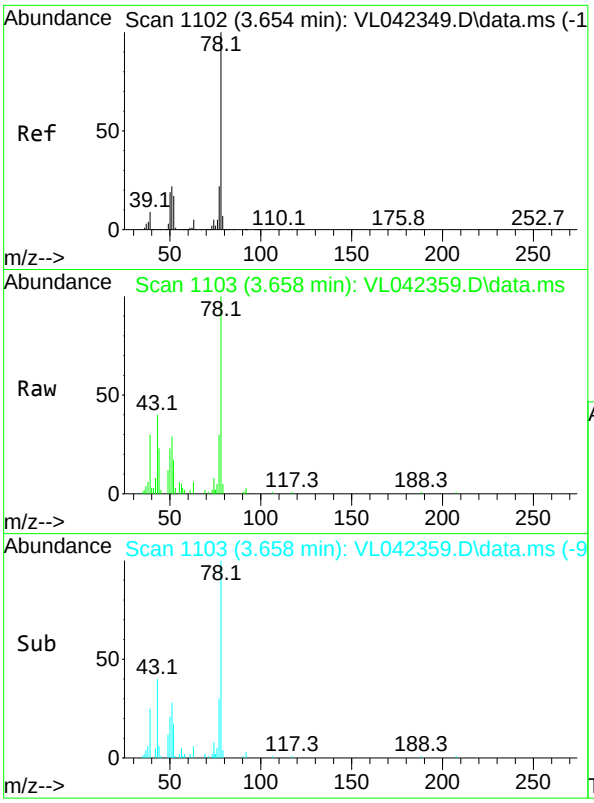



#35
Carbon Tetrachloride
Concen: 0.082 ppbv m
RT: 3.761 min Scan# 1135
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion:117 Resp: 2635

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 61.8 | 80.5 | 120.7# |
| 121 | 29.2 | 24.2 | 36.2 |

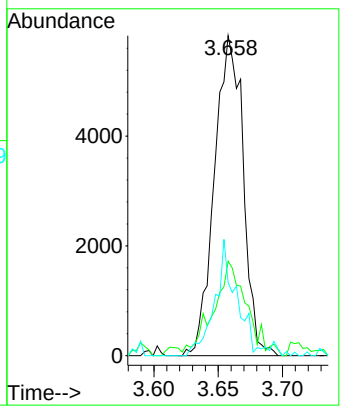





#36
Benzene
Concen: 0.236 ppbv m
RT: 3.658 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 78 Resp: 902

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 29.5 | 17.4 | 26.0# |
| 50 | 22.9 | 15.5 | 23.3 |

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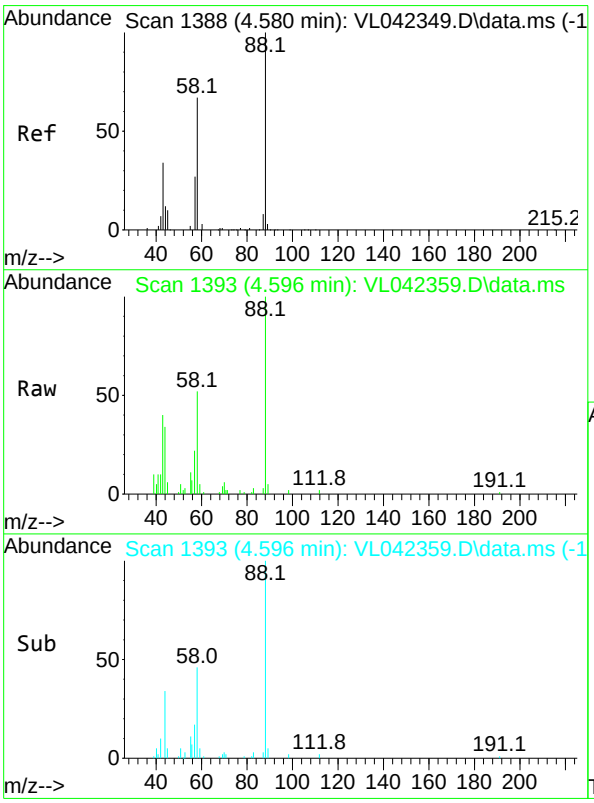
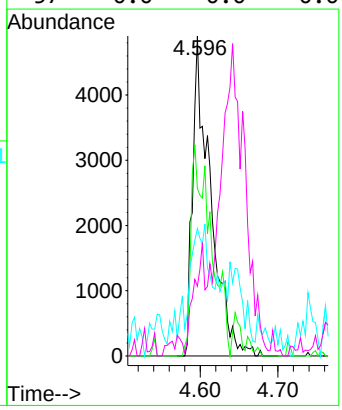
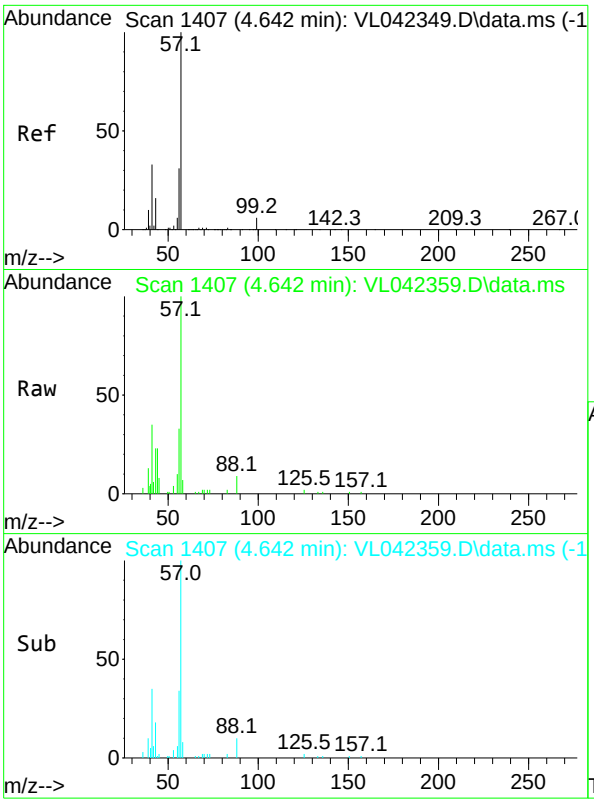



#40
1,4-Dioxane
Concen: 1.000 ppbv m
RT: 4.596 min Scan# 1393
Delta R.T. 0.016 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 88 Resp: 7820

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 80.9 | 61.4 | 92.0 |
| 43 | 3.4 | 23.2 | 34.8# |
| 57 | 0.0 | 0.0 | 0.0 |

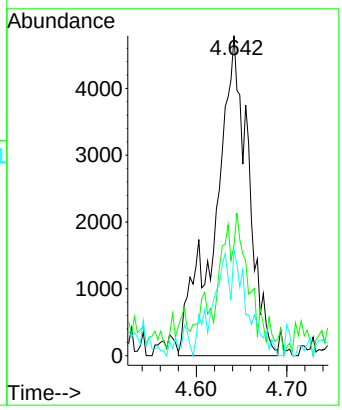





#44
2,2,4-Trimethylpentane
Concen: 0.184 ppbv m
RT: 4.642 min Scan# 14
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 57 Resp: 1216

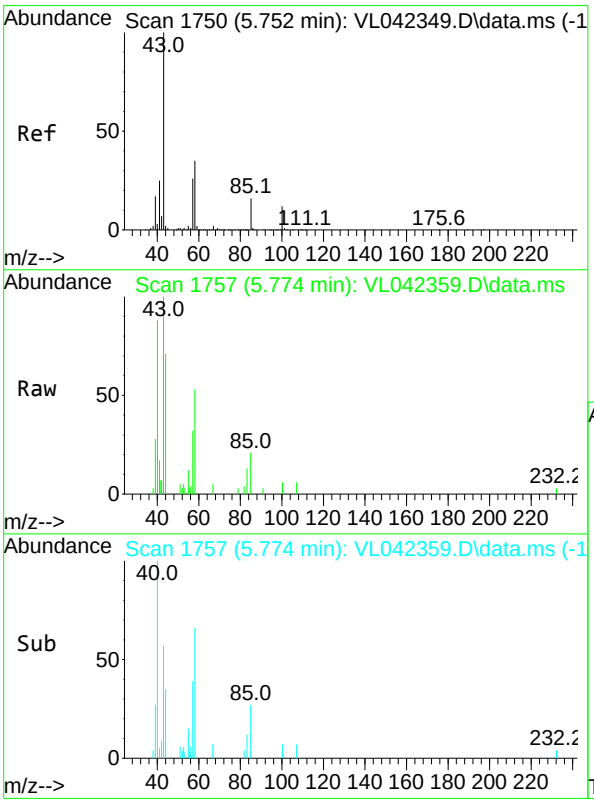
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 39.1 | 27.2 | 40.8 |
| 56 | 35.1 | 25.7 | 38.5 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025

**Manual Integrations**
**APPROVED**

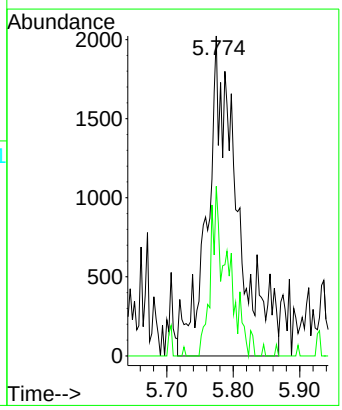
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

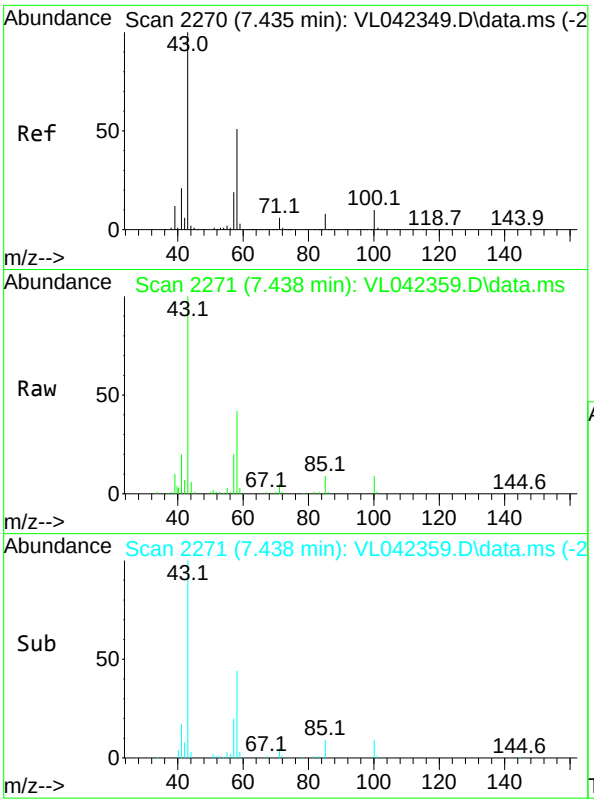



#50
4-Methyl-2-Pentanone
Concen: 0.137 ppbv m
RT: 5.774 min Scan# 1757
Delta R.T. 0.023 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 43 Resp: 6399

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 0.0 | 28.6 | 43.0# |

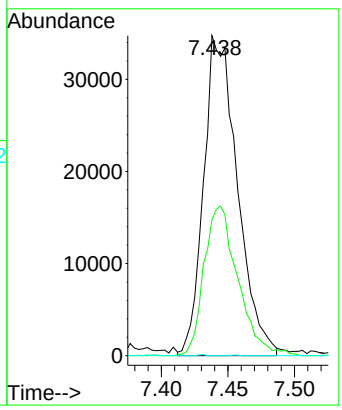





#51
2-Hexanone
Concen: 1.466 ppbv m
RT: 7.438 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 43 Resp: 6119

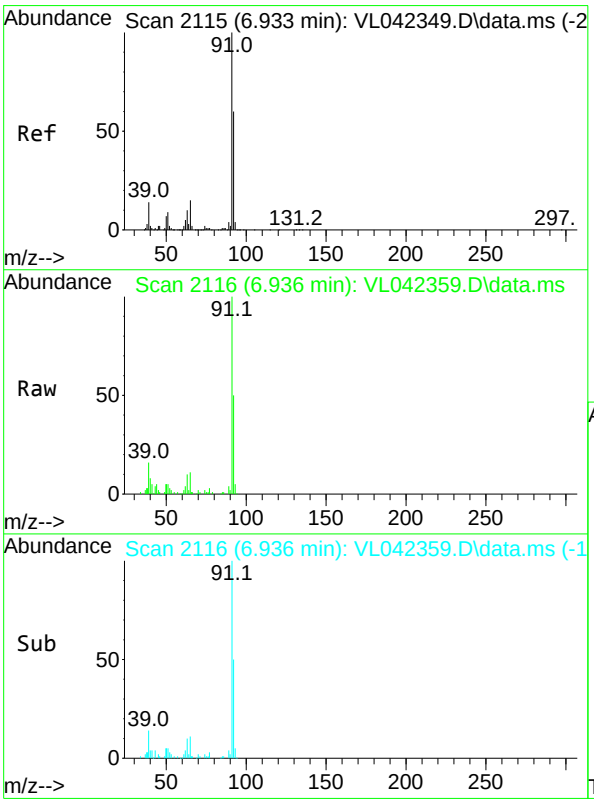
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 0.0 | 40.2 | 60.4# |
| 98 | 0.0 | 0.1 | 0.1# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025

**Manual Integrations**
**APPROVED**

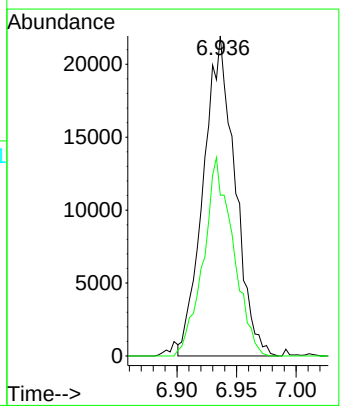
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

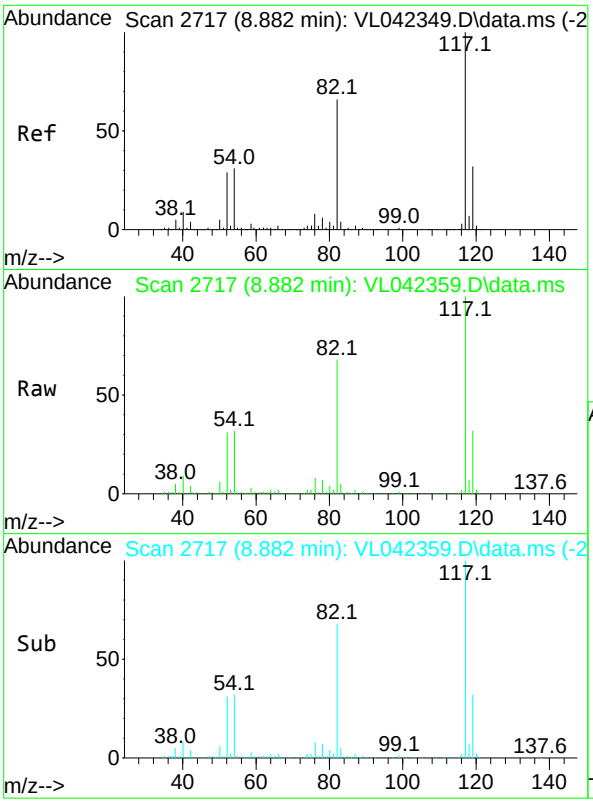



#53
Toluene
Concen: 0.884 ppbv
RT: 6.936 min Scan# 2116
Delta R.T. 0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 91 Resp: 40500

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 58.2 | 48.2 | 72.4 |

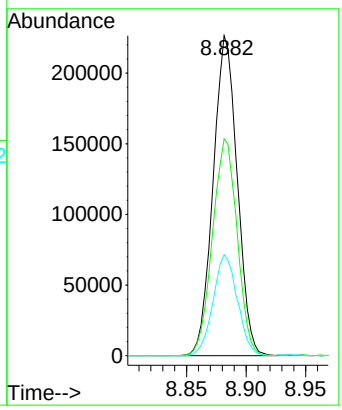





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion:117 Resp: 31828

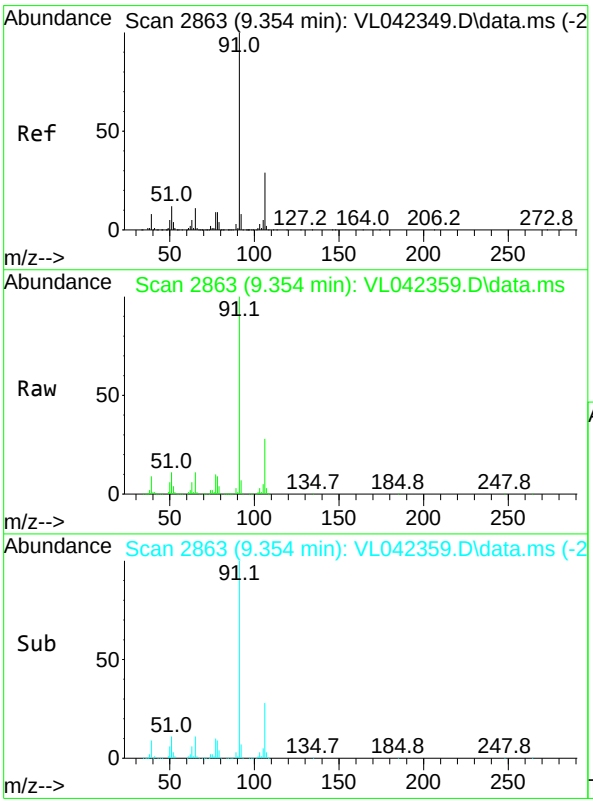
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 69.4 | 57.8 | 86.6 |
| 119 | 31.8 | 25.2 | 37.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025

**Manual Integrations APPROVED**

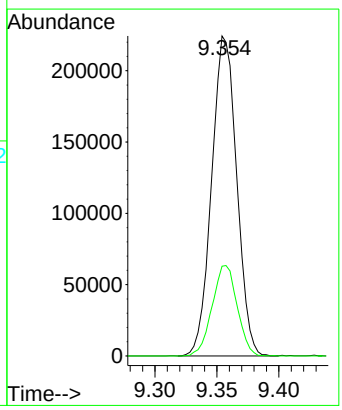
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

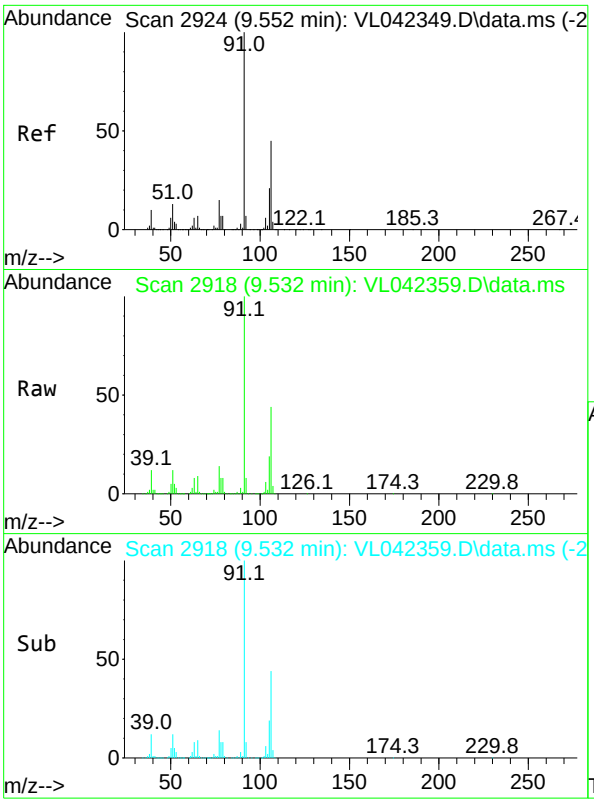



#58
Ethyl Benzene
Concen: 5.010 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 91 Resp: 315931

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 28.1 | 23.0 | 34.4 |






#59
m/p-Xylene
Concen: 21.313 ppbv
RT: 9.532 min Scan# 2
Delta R.T. -0.019 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 91 Resp: 108273

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 44.4 | 35.4 | 53.2 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025

**Manual Integrations**
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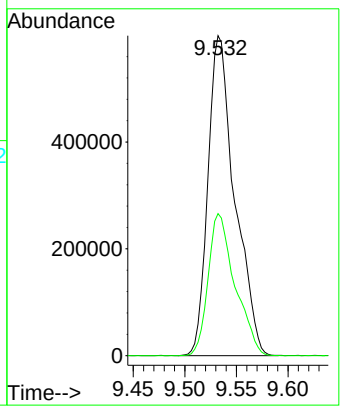
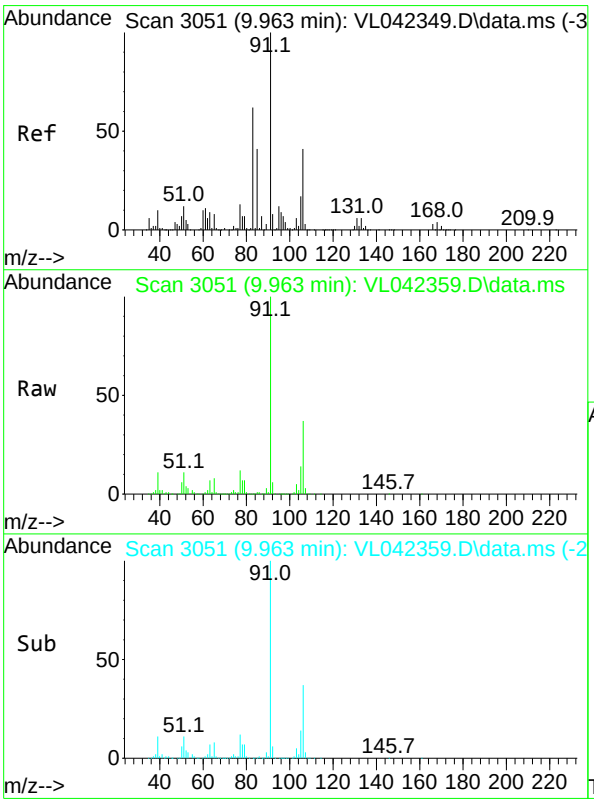
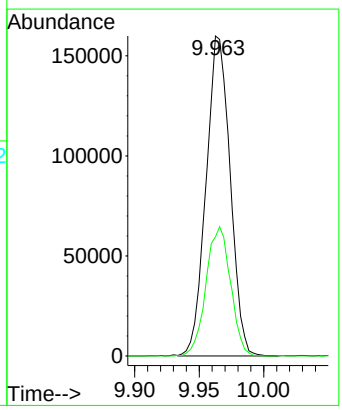


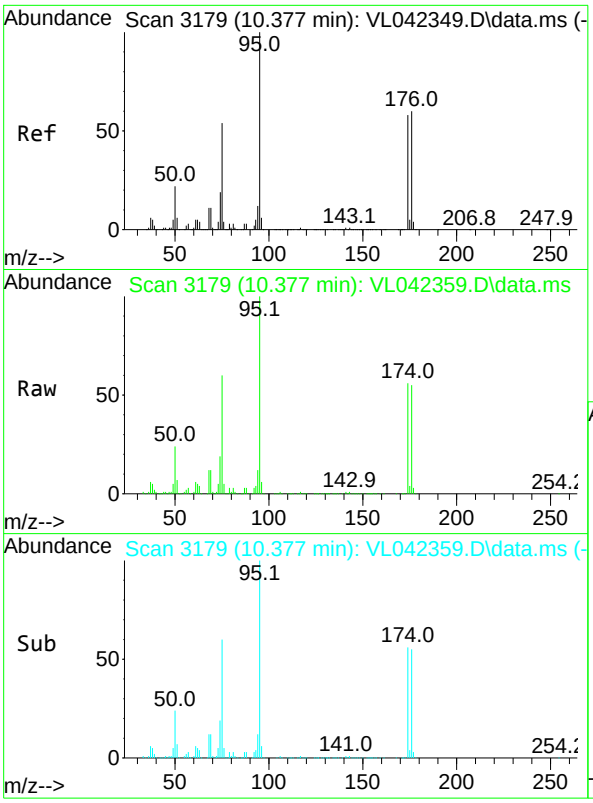




#60
o-Xylene
Concen: 4.051 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 91 Resp: 207265

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 41.1 | 21.1 | 63.4 |

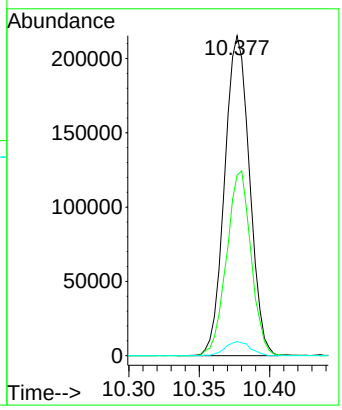





#68
1-Bromo-4-Fluorobenzene
Concen: 10.142 ppbv
RT: 10.377 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 95 Resp: 26526

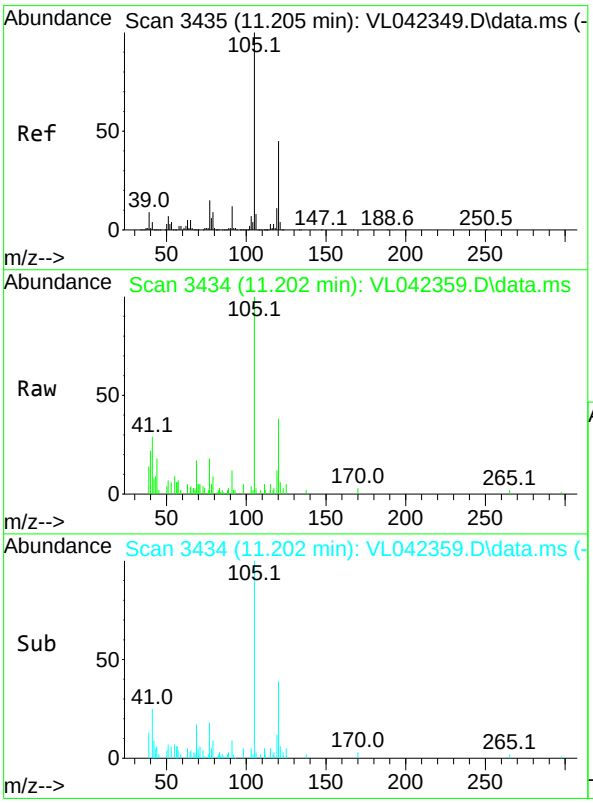
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 56.8 | 48.5 | 72.7 |
| 175 | 4.4 | 3.7 | 5.5 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025

**Manual Integrations**
**APPROVED**

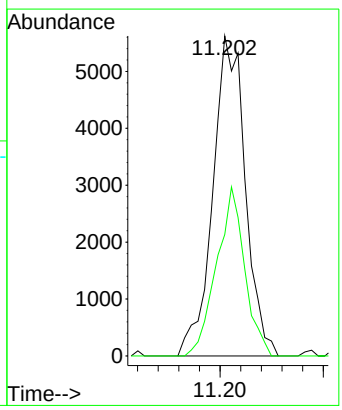
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

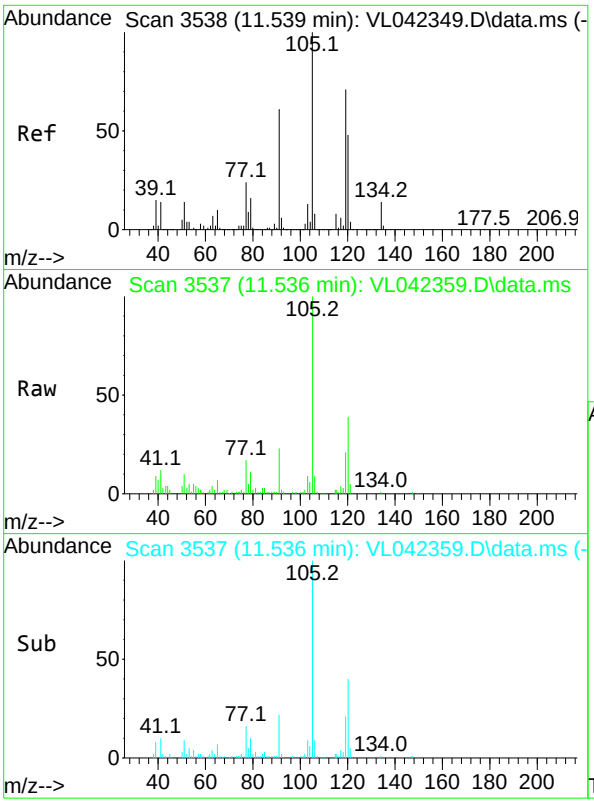



#73
1,3,5-Trimethylbenzene
Concen: 0.111 ppbv
RT: 11.202 min Scan# 3434
Delta R.T. -0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion:105 Resp: 6133

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 38.0 | 35.6 | 53.4 |

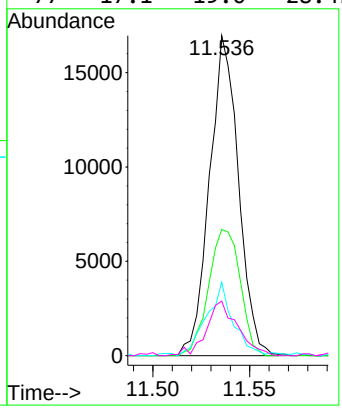





#74
1,2,4-Trimethylbenzene
Concen: 0.274 ppbv
RT: 11.536 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion:105 Resp: 1764

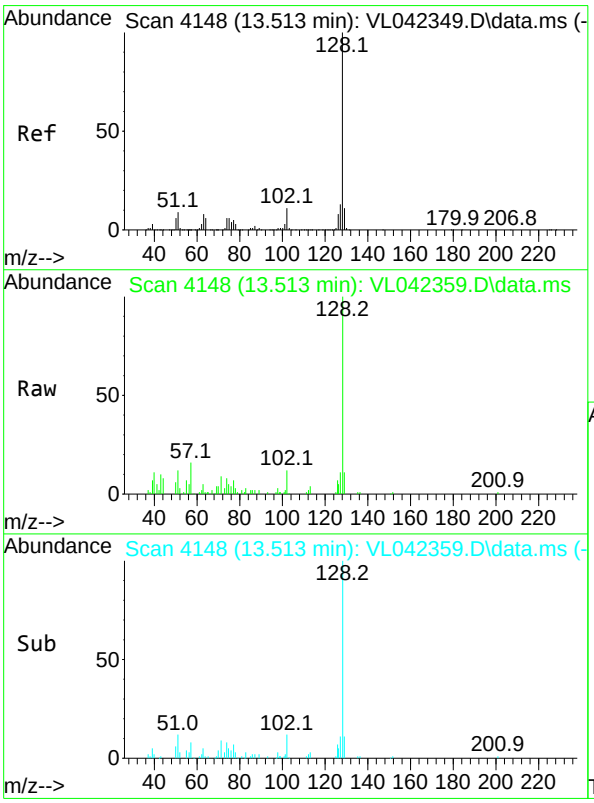
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 39.5 | 38.1 | 57.1 |
| 91 | 23.0 | 48.8 | 73.2# |
| 77 | 17.1 | 19.0 | 28.4# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025

**Manual Integrations**
**APPROVED**

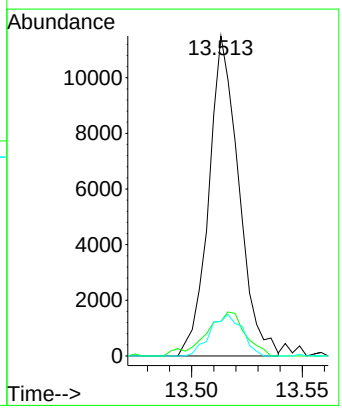
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

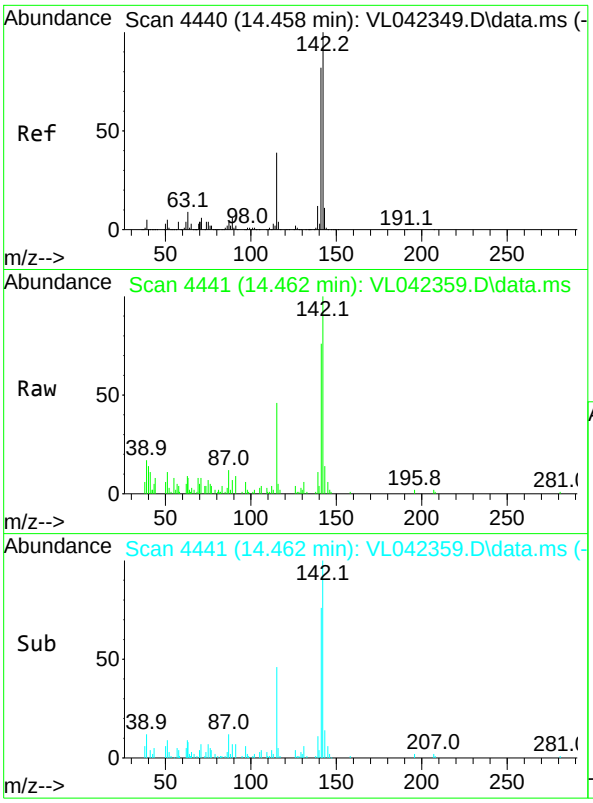



#79
Naphthalene
Concen: 0.140 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion:128 Resp: 10816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 10.8 | 10.6 | 15.8 |
| 129 | 10.8 | 8.6 | 12.8 |

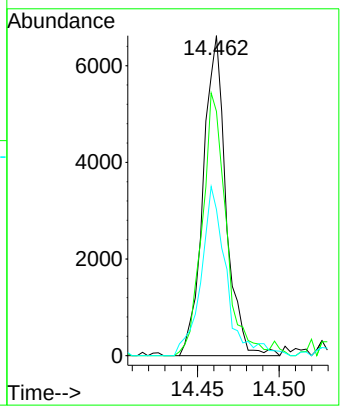





#80
Naphthalene,2-methyl-
Concen: 0.147 ppbv m
RT: 14.462 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion:142 Resp: 644

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 22.5 | 66.8 | 100.2# |
| 115 | 13.8 | 33.4 | 50.2# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042359.D
Acq On : 17 Apr 2025 16:12
Operator : SY/MD
Sample : Q1665-15
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

Signal : TIC: VL042359.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.431 | 410 | 415 | 420 | rBV | 4167250 | 4711580 | 100.00% | 22.523% |
| 2 | 1.489 | 427 | 433 | 435 | rBV2 | 177771 | 96323 | 2.04% | 0.460% |
| 3 | 1.557 | 450 | 454 | 462 | rVB2 | 275399 | 181667 | 3.86% | 0.868% |
| 4 | 1.622 | 470 | 474 | 478 | rVB | 104166 | 57617 | 1.22% | 0.275% |
| 5 | 1.835 | 535 | 540 | 547 | rBV | 1859303 | 1244192 | 26.41% | 5.948% |
| 6 | 1.887 | 551 | 556 | 567 | rVB | 3498328 | 2490804 | 52.87% | 11.907% |
| 7 | 2.787 | 826 | 834 | 841 | rBV | 452912 | 477223 | 10.13% | 2.281% |
| 8 | 2.826 | 841 | 846 | 860 | rVB2 | 218353 | 253193 | 5.37% | 1.210% |
| 9 | 3.347 | 1000 | 1007 | 1018 | rBV | 48995 | 70231 | 1.49% | 0.336% |
| 10 | 3.959 | 1185 | 1196 | 1211 | rVB2 | 592332 | 954188 | 20.25% | 4.561% |
| 11 | 5.321 | 1599 | 1617 | 1634 | rVB3 | 60586 | 154255 | 3.27% | 0.737% |
| 12 | 6.936 | 2102 | 2116 | 2127 | rBV3 | 56741 | 116984 | 2.48% | 0.559% |
| 13 | 7.292 | 2214 | 2226 | 2239 | rBV5 | 23305 | 48184 | 1.02% | 0.230% |
| 14 | 7.438 | 2264 | 2271 | 2272 | rBV | 84627 | 64560 | 1.37% | 0.309% |
| 15 | 7.444 | 2272 | 2273 | 2289 | rVB2 | 83297 | 89420 | 1.90% | 0.427% |
| 16 | 7.690 | 2340 | 2349 | 2361 | rBV5 | 60077 | 101742 | 2.16% | 0.486% |
| 17 | 8.882 | 2705 | 2717 | 2728 | rBV | 809288 | 1154517 | 24.50% | 5.519% |
| 18 | 9.354 | 2853 | 2863 | 2876 | rBV | 540491 | 760417 | 16.14% | 3.635% |
| 19 | 9.532 | 2900 | 2918 | 2936 | rBV | 1764736 | 3183410 | 67.57% | 15.218% |
| 20 | 9.966 | 3039 | 3052 | 3064 | rBV2 | 453275 | 675767 | 14.34% | 3.230% |
| 21 | 10.377 | 3164 | 3179 | 3190 | rBV2 | 991428 | 1238425 | 26.28% | 5.920% |
| 22 | 10.464 | 3198 | 3206 | 3218 | rVB | 424500 | 500758 | 10.63% | 2.394% |
| 23 | 11.115 | 3393 | 3407 | 3417 | rBV3 | 70919 | 111463 | 2.37% | 0.533% |
| 24 | 11.536 | 3528 | 3537 | 3544 | rBV4 | 58481 | 76465 | 1.62% | 0.366% |
| 25 | 11.824 | 3618 | 3626 | 3639 | rBV | 1207135 | 1222142 | 25.94% | 5.842% |
| 26 | 12.882 | 3942 | 3953 | 3962 | rBV | 766928 | 737294 | 15.65% | 3.525% |
| 27 | 13.384 | 4103 | 4108 | 4116 | rVB | 67371 | 69174 | 1.47% | 0.331% |
| 28 | 14.267 | 4374 | 4381 | 4390 | rBV2 | 66101 | 76518 | 1.62% | 0.366% |

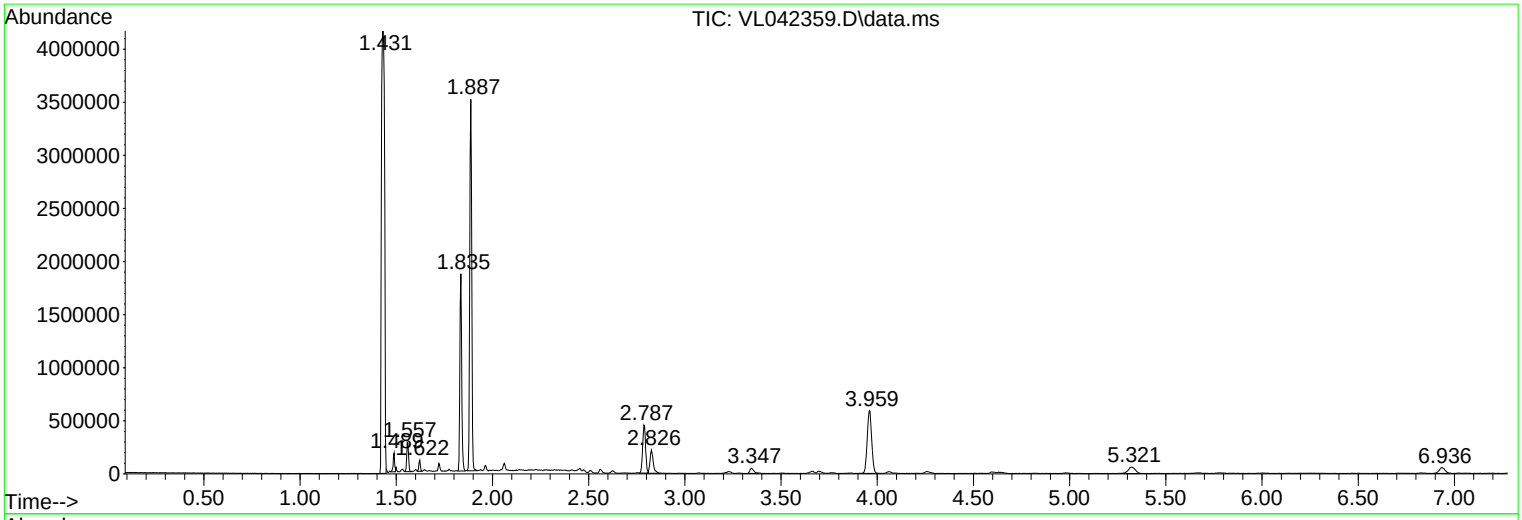
Sum of corrected areas: 20918513

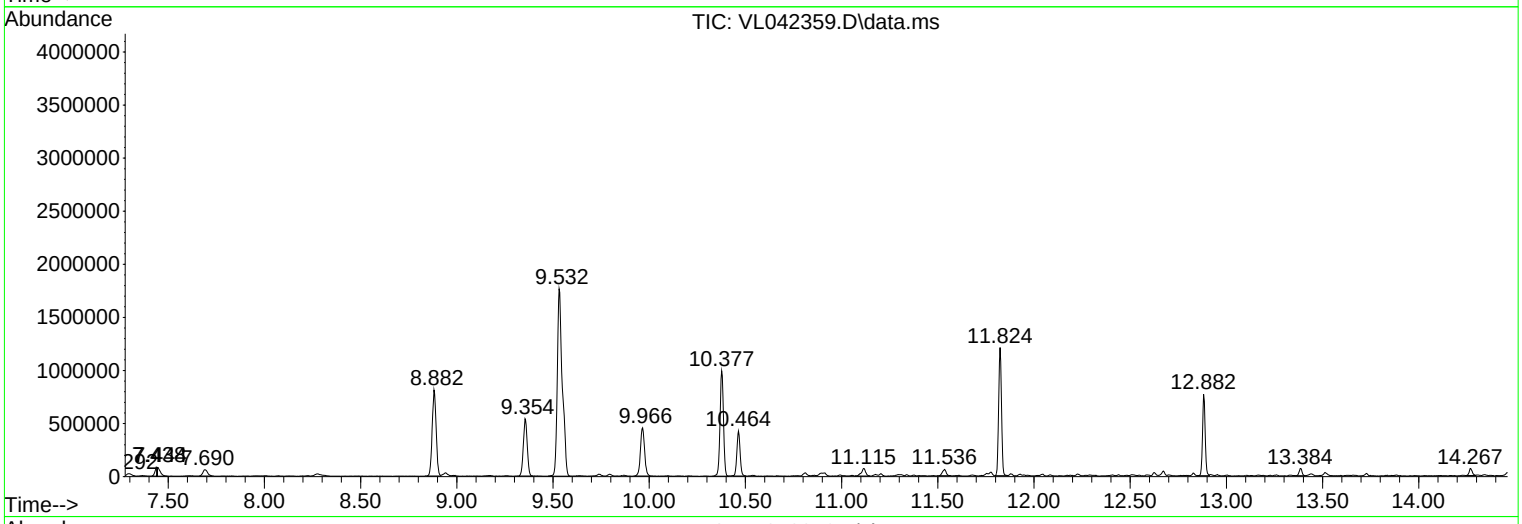
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042359.D
Acq On : 17 Apr 2025 16:12
Operator : SY/MD
Sample : Q1665-15
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

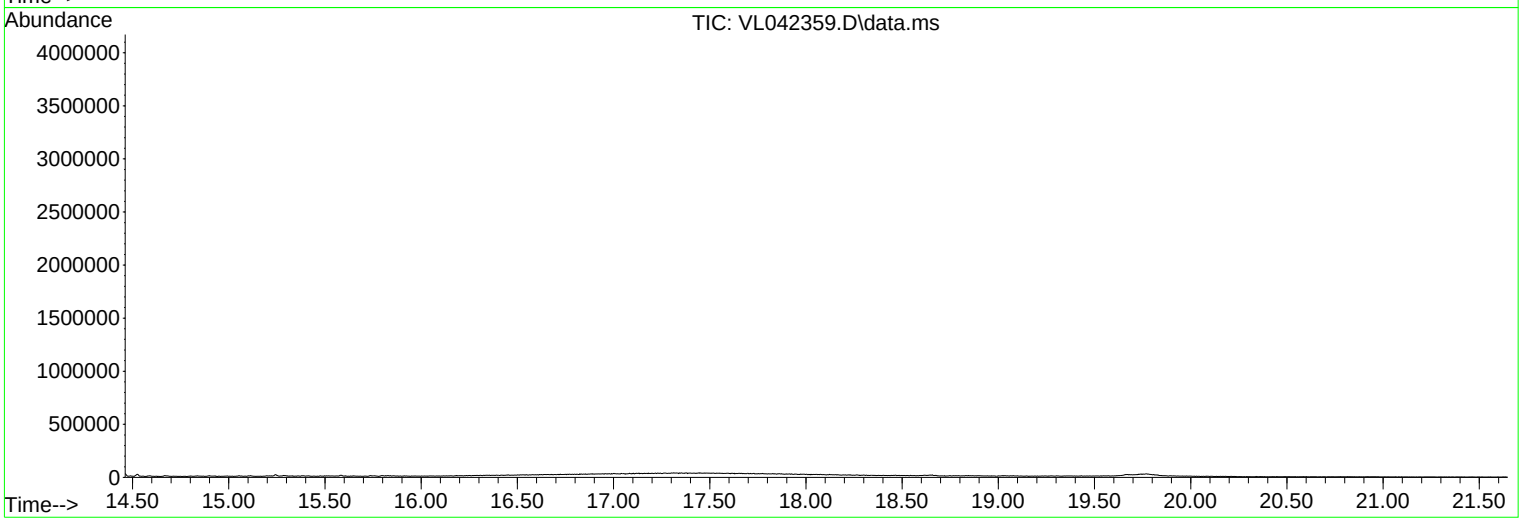
**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042359.D
Acq On : 17 Apr 2025 16:12
Operator : SY/MD
Sample : Q1665-15
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

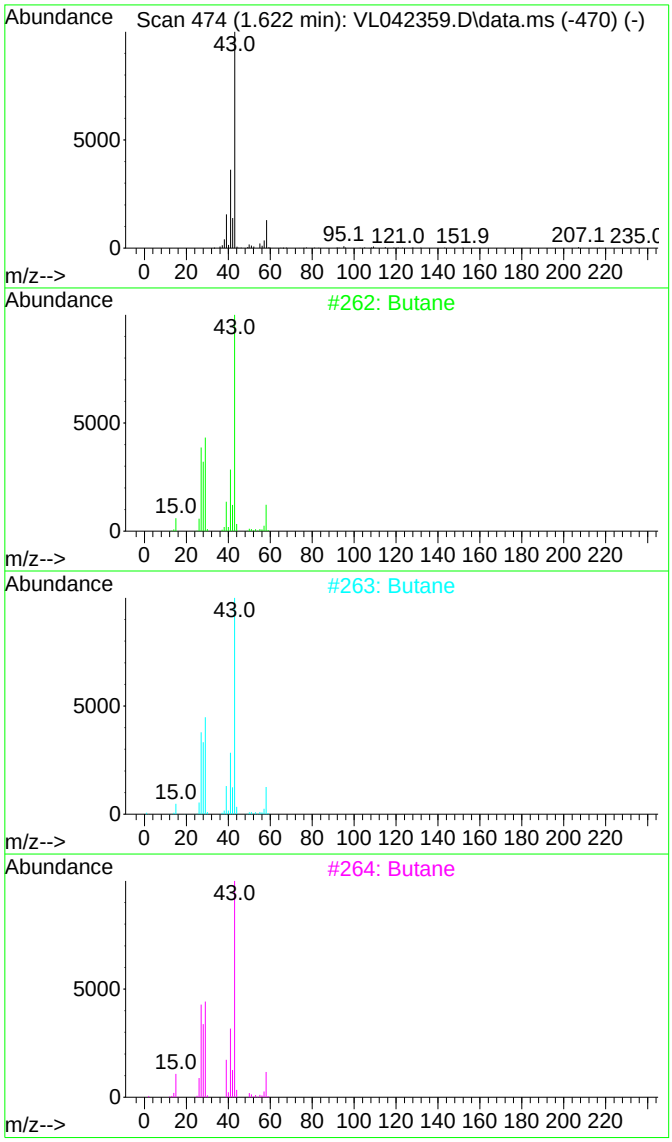
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

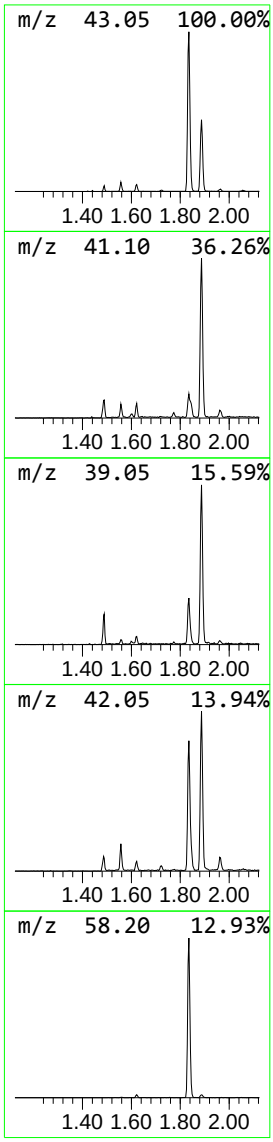
**********

Peak Number 1 Butane Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.622 | 1.21 ppbv | 57617 | Bromochloromethane | 2.787 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane | 58 | C4H10 | 000106-97-8 | 59 |
| 2 | Butane | 58 | C4H10 | 000106-97-8 | 53 |
| 3 | Butane | 58 | C4H10 | 000106-97-8 | 42 |
| 4 | Butane | 58 | C4H10 | 000106-97-8 | 42 |
| 5 | 1-Propen-2-ol, acetate | 100 | C5H8O2 | 000108-22-5 | 39 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042359.D
Acq On : 17 Apr 2025 16:12
Operator : SY/MD
Sample : Q1665-15
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025

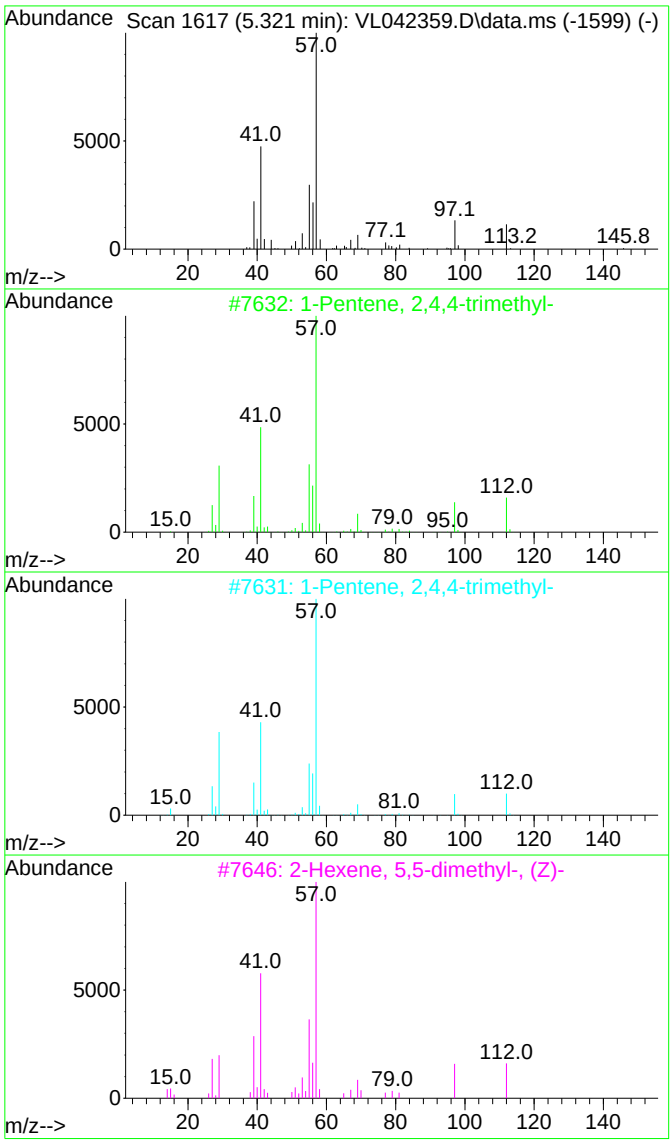
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

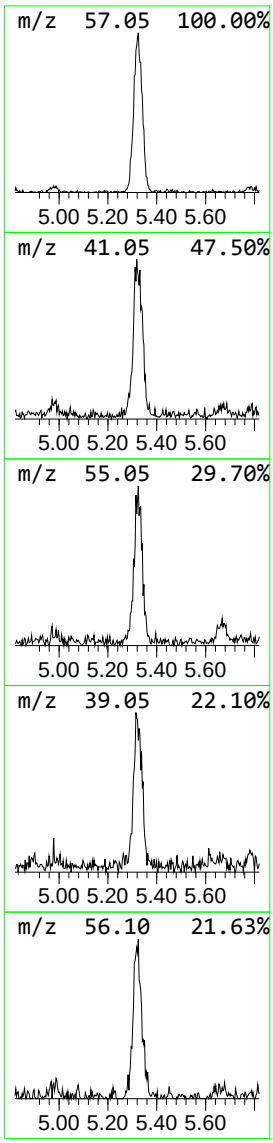
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 2 1-Pentene, 2,4,4-trimethyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.321 | 1.62 ppbv | 154255 | 1,4-Difluorobenzene | 3.962 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Pentene, 2,4,4-trimethyl- | 112 | C8H16 | 000107-39-1 | 87 |
| 2 | 1-Pentene, 2,4,4-trimethyl- | 112 | C8H16 | 000107-39-1 | 86 |
| 3 | 2-Hexene, 5,5-dimethyl-, (Z)- | 112 | C8H16 | 039761-61-0 | 81 |
| 4 | 1-Pentene, 2,4,4-trimethyl- | 112 | C8H16 | 000107-39-1 | 74 |
| 5 | 1-Pentene, 2,4,4-trimethyl- | 112 | C8H16 | 000107-39-1 | 59 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042359.D
Acq On : 17 Apr 2025 16:12
Operator : SY/MD
Sample : Q1665-15
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

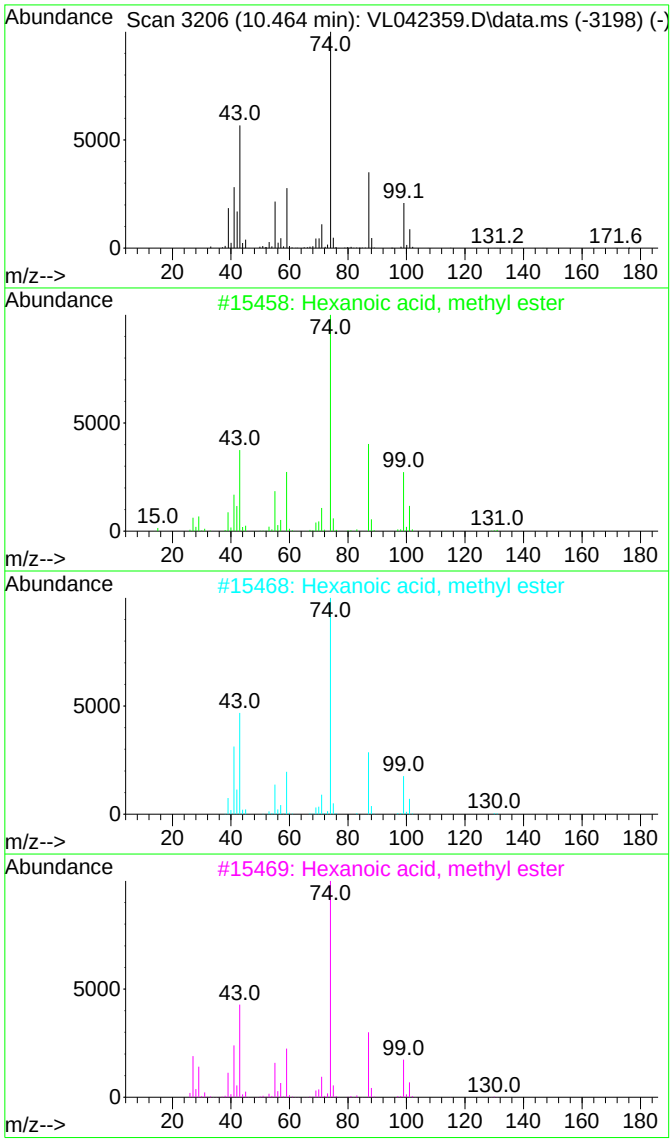
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

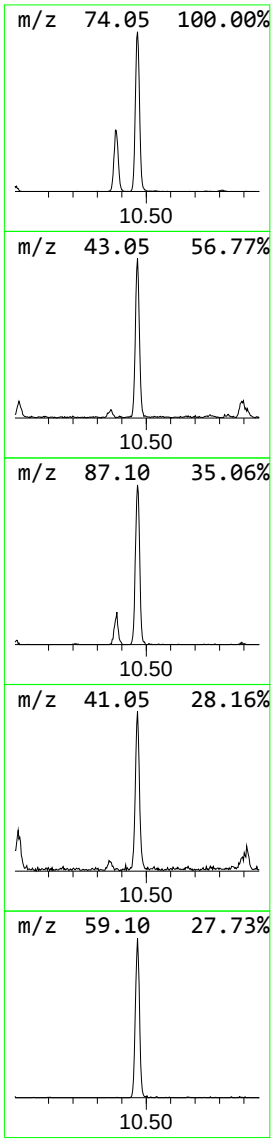
**********

Peak Number 3 Hexanoic acid, methyl ester Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.464 | 4.34 ppbv | 500758 | Chlorobenzene-d5 | 8.882 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexanoic acid, methyl ester | 130 | C7H14O2 | 000106-70-7 | 90 |
| 2 | Hexanoic acid, methyl ester | 130 | C7H14O2 | 000106-70-7 | 90 |
| 3 | Hexanoic acid, methyl ester | 130 | C7H14O2 | 000106-70-7 | 78 |
| 4 | Methyl valerate | 116 | C6H12O2 | 000624-24-8 | 59 |
| 5 | Methyl valerate | 116 | C6H12O2 | 000624-24-8 | 45 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042359.D
Acq On : 17 Apr 2025 16:12
Operator : SY/MD
Sample : Q1665-15
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025

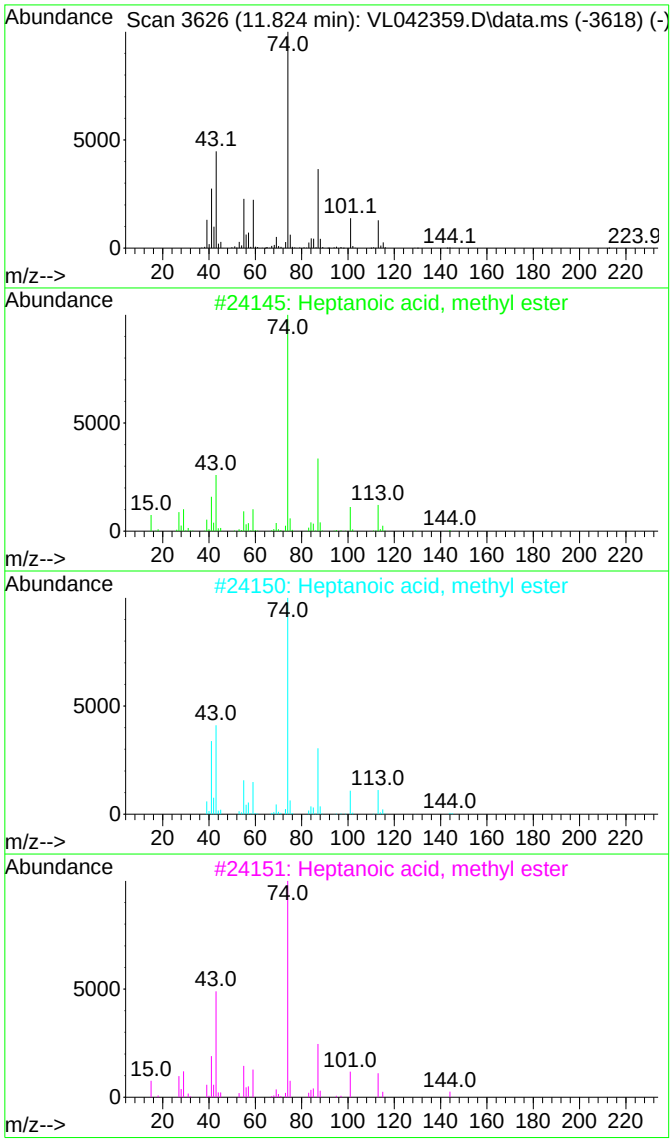
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

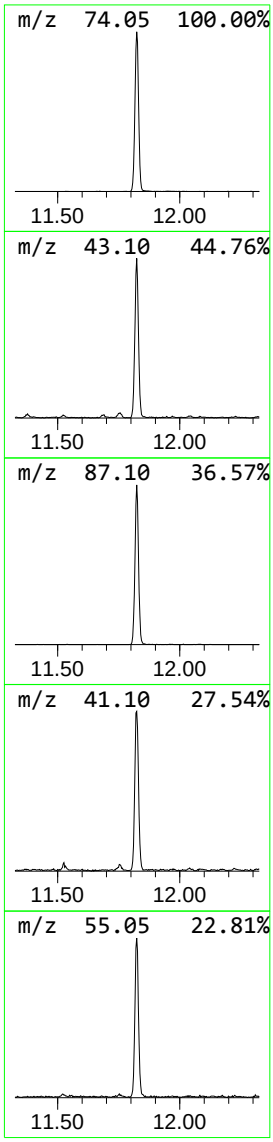
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 4 Heptanoic acid, methyl ester Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.824 | 10.59 ppbv | 1222140 | Chlorobenzene-d5 | 8.882 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptanoic acid, methyl ester | 144 | C8H16O2 | 000106-73-0 | 83 |
| 2 | Heptanoic acid, methyl ester | 144 | C8H16O2 | 000106-73-0 | 80 |
| 3 | Heptanoic acid, methyl ester | 144 | C8H16O2 | 000106-73-0 | 72 |
| 4 | Heptanoic acid, methyl ester | 144 | C8H16O2 | 000106-73-0 | 72 |
| 5 | Hexanoic acid, methyl ester | 130 | C7H14O2 | 000106-70-7 | 64 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042359.D
Acq On : 17 Apr 2025 16:12
Operator : SY/MD
Sample : Q1665-15
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025

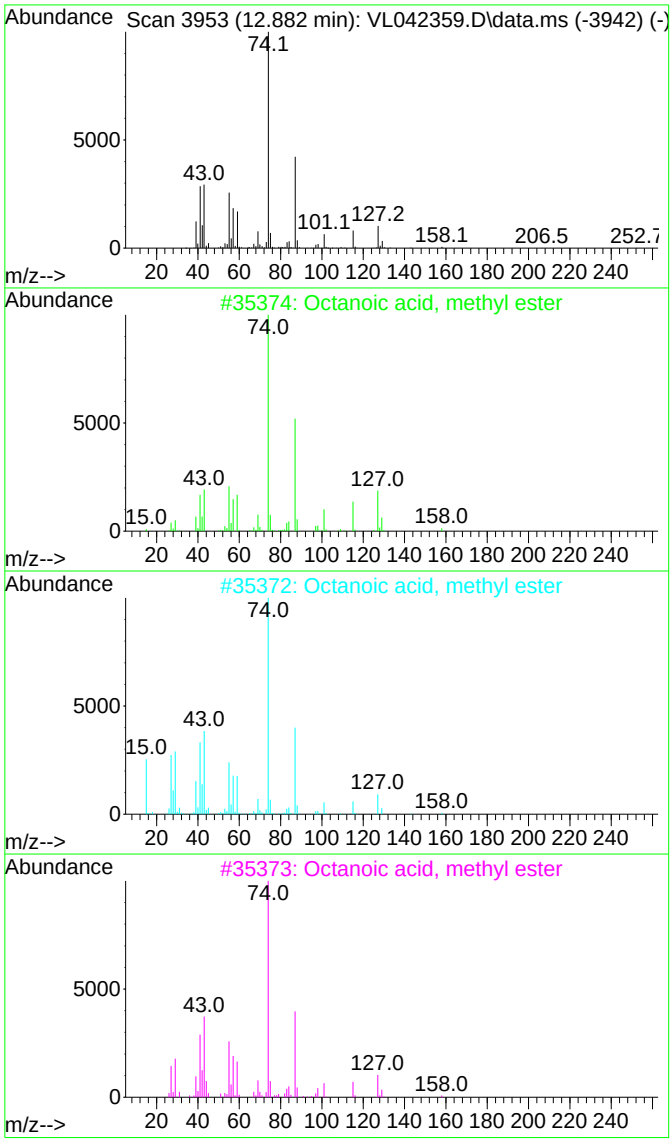
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

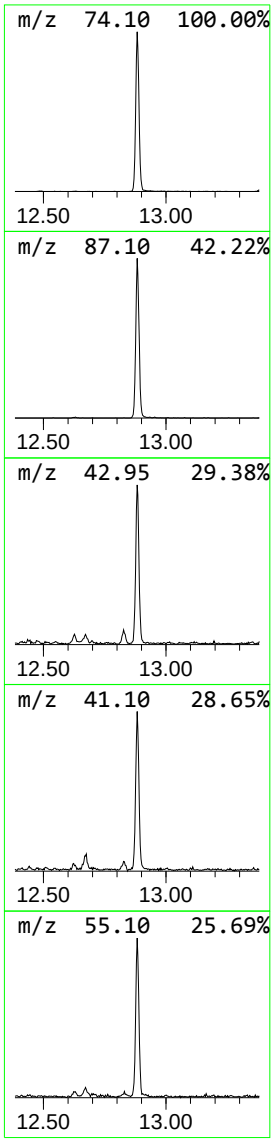
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 5 Octanoic acid, methyl ester Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.882 | 6.39 ppbv | 737294 | Chlorobenzene-d5 | 8.882 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octanoic acid, methyl ester | 158 | C9H18O2 | 000111-11-5 | 95 |
| 2 | Octanoic acid, methyl ester | 158 | C9H18O2 | 000111-11-5 | 91 |
| 3 | Octanoic acid, methyl ester | 158 | C9H18O2 | 000111-11-5 | 90 |
| 4 | Octanoic acid, methyl ester | 158 | C9H18O2 | 000111-11-5 | 90 |
| 5 | Octanoic acid, methyl ester | 158 | C9H18O2 | 000111-11-5 | 86 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042359.D
Acq On : 17 Apr 2025 16:12
Operator : SY/MD
Sample : Q1665-15
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Butane | 1.622 | 1.2 | ppbv | 57617 | 1 | 2.787 | 477223 | 10.0 |
| 1-Pentene, 2,4,... | 5.321 | 1.6 | ppbv | 154255 | 2 | 3.962 | 954188 | 10.0 |
| Hexanoic acid, ... | 10.464 | 4.3 | ppbv | 500758 | 3 | 8.882 | 1154520 | 10.0 |
| Heptanoic acid,... | 11.824 | 10.6 | ppbv | 1222140 | 3 | 8.882 | 1154520 | 10.0 |
| Octanoic acid, ... | 12.882 | 6.4 | ppbv | 737294 | 3 | 8.882 | 1154520 | 10.0 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B14-1-3242025DL | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-15DL | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042360.D | 10 | | 04/17/25 16:44 | VL041725 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 2.10 | 10.4 | UD | 10.4 | 24.7 | ug/m3 |
| 64-17-5 | Ethanol | 27.8 | 52.4 | DQ | 6.03 | 9.42 | ug/m3 |
| 74-87-3 | Chloromethane | 0.98 | 2.02 | UD | 2.02 | 10.3 | ug/m3 |
| 75-01-4 | Vinyl Chloride | 0.14 | 0.36 | UD | 0.36 | 0.77 | ug/m3 |
| 74-83-9 | Bromomethane | 1.40 | 5.44 | UD | 5.44 | 19.4 | ug/m3 |
| 75-00-3 | Chloroethane | 1.70 | 4.49 | UD | 4.49 | 13.2 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | 1.30 | 3.83 | UD | 3.83 | 14.8 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | 1.60 | 8.99 | UD | 8.99 | 28.1 | ug/m3 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 1.60 | 12.3 | UD | 12.3 | 38.3 | ug/m3 |
| 76-14-2 | Dichlorotetrafluoroethane | 0.88 | 6.15 | UD | 6.15 | 35.0 | ug/m3 |
| 593-60-2 | Bromoethene | 1.20 | 5.25 | UD | 5.25 | 21.9 | ug/m3 |
| 75-65-0 | tert-Butyl alcohol | 1.90 | 5.76 | UD | 5.76 | 15.2 | ug/m3 |
| 142-82-5 | Heptane | 1.10 | 4.51 | UD | 4.51 | 20.5 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | 170 | 418 | ED | 1.70 | 12.3 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethene | 1.40 | 5.55 | UD | 5.55 | 19.8 | ug/m3 |
| 67-64-1 | Acetone | 42.5 | 101 | D | 5.70 | 11.9 | ug/m3 |
| 75-15-0 | Carbon Disulfide | 1.60 | 4.98 | UD | 4.98 | 15.6 | ug/m3 |
| 1634-04-4 | Methyl tert-Butyl Ether | 1.20 | 4.33 | UD | 4.33 | 18.0 | ug/m3 |
| 75-09-2 | Methylene Chloride | 1.90 | 6.60 | UD | 6.60 | 17.4 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethene | 1.90 | 7.53 | UD | 7.53 | 19.8 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | 1.30 | 5.26 | UD | 5.26 | 20.2 | ug/m3 |
| 110-82-7 | Cyclohexane | 2.20 | 7.57 | UD | 7.57 | 17.2 | ug/m3 |
| 78-93-3 | 2-Butanone | 1.30 | 3.83 | JD | 3.54 | 14.8 | ug/m3 |
| 56-23-5 | Carbon Tetrachloride | 0.11 | 0.69 | UD | 0.69 | 1.89 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.89 | 3.53 | UD | 3.53 | 19.8 | ug/m3 |
| 67-66-3 | Chloroform | 0.83 | 4.05 | UD | 4.05 | 24.4 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.10 | 0.55 | UD | 0.55 | 1.64 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | 1.00 | 4.67 | UD | 4.67 | 23.4 | ug/m3 |
| 71-43-2 | Benzene | 0.87 | 2.78 | UD | 2.78 | 16.0 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | 0.91 | 3.68 | UD | 3.68 | 20.2 | ug/m3 |
| 79-01-6 | Trichloroethene | 0.17 | 0.91 | UD | 0.91 | 1.61 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | 1.10 | 5.08 | UD | 5.08 | 23.1 | ug/m3 |
| 75-27-4 | Bromodichloromethane | 0.77 | 5.16 | UD | 5.16 | 33.5 | ug/m3 |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.93 | 3.81 | UD | 3.81 | 20.5 | ug/m3 |
| 108-88-3 | Toluene | 1.10 | 4.15 | UD | 4.15 | 18.8 | ug/m3 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B14-1-3242025DL | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-15DL | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042360.D | 10 | | 04/17/25 16:44 | VL041725 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.60 | 2.72 | UD | 2.72 | 22.7 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.64 | 2.91 | UD | 2.91 | 22.7 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.71 | 3.87 | UD | 3.87 | 27.3 | ug/m3 |
| 124-48-1 | Dibromochloromethane | 0.66 | 5.62 | UD | 5.62 | 42.6 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane | 0.72 | 5.53 | UD | 5.53 | 7.69 | ug/m3 |
| 127-18-4 | Tetrachloroethene | 0.15 | 1.02 | UD | 1.02 | 2.03 | ug/m3 |
| 108-90-7 | Chlorobenzene | 0.76 | 3.50 | UD | 3.50 | 23.0 | ug/m3 |
| 100-41-4 | Ethyl Benzene | 5.10 | 22.1 | D | 5.21 | 21.7 | ug/m3 |
| 179601-23-1 | m/p-Xylene | 22.3 | 96.9 | D | 9.12 | 43.4 | ug/m3 |
| 95-47-6 | o-Xylene | 4.10 | 17.8 | JD | 5.21 | 21.7 | ug/m3 |
| 100-42-5 | Styrene | 1.10 | 4.68 | UD | 4.68 | 21.3 | ug/m3 |
| 75-25-2 | Bromoform | 0.57 | 5.89 | UD | 5.89 | 51.7 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.11 | 0.76 | UD | 0.76 | 2.06 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | 1.10 | 5.70 | UD | 5.70 | 25.9 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 1.10 | 5.41 | UD | 5.41 | 24.6 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.78 | 3.83 | UD | 3.83 | 24.6 | ug/m3 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.80 | 4.81 | UD | 4.81 | 30.1 | ug/m3 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.53 | 3.19 | UD | 3.19 | 30.1 | ug/m3 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.75 | 4.51 | UD | 4.51 | 30.1 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.85 | 6.31 | UD | 6.31 | 37.1 | ug/m3 |
| 87-68-3 | Hexachloro-1,3-Butadiene | 0.85 | 9.07 | UD | 9.07 | 53.3 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | 1.30 | 2.88 | UD | 2.88 | 11.1 | ug/m3 |
| 91-20-3 | Naphthalene | 0.75 | 3.93 | UD | 3.93 | 5.24 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | 1.20 | 5.90 | UD | 5.90 | 24.6 | ug/m3 |
| 110-54-3 | Hexane | 1.10 | 3.88 | UD | 3.88 | 17.6 | ug/m3 |
| 107-05-1 | Allyl Chloride | 1.50 | 4.70 | UD | 4.70 | 15.7 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | 2.10 | 7.57 | UD | 7.57 | 18.0 | ug/m3 |
| 80-62-6 | Methyl Methacrylate | 0.86 | 3.52 | UD | 3.52 | 20.5 | ug/m3 |
| **SURROGATES** | | | | | | | |
| 460-00-4 | 1-Bromo-4-Fluorobenzene | 10.2 | | | 70 (65) - 130 (135) | 102% | SPK: 10 |
| **INTERNAL STANDARDS** | | | | | | | |
| 74-97-5 | Bromochloromethane | 122000 | | 2.787 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 347000 | | 3.962 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 308000 | | 8.882 | | | |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B14-1-3242025DL | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-15DL | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042360.D | 10 | | 04/17/25 16:44 | VL041725 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042360.D
Acq On : 17 Apr 2025 16:44
Operator : SY/MD
Sample : Q1665-15DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 02:38:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025DL

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 2.787 | 49 | 121918 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.962 | 114 | 347081 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.882 | 117 | 308280 | 10.000 | ppbv | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95 | 259047 | 10.226 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 102.300% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 9) Propene | 1.489 | 41 | 2087 | 0.223 | ppbv | | 85 |
| 13) Ethanol | 1.722 | 45 | 4134m | 2.784 | ppbv | | |
| 15) Acetone | 1.836 | 43 | 84869 | 4.252 | ppbv | | 100 |
| 19) Isopropyl Alcohol | 1.887 | 45 | 188363 | 16.989 | ppbv | # | 52 |
| 34) 2-Butanone | 2.564 | 43 | 3500m | 0.128 | ppbv | | |
| 51) 2-Hexanone | 7.448 | 43 | 5539 | 0.135 | ppbv | # | 96 |
| 53) Toluene | 6.937 | 91 | 4561m | 0.102 | ppbv | | |
| 58) Ethyl Benzene | 9.358 | 91 | 30946 | 0.507 | ppbv | | 93 |
| 59) m/p-Xylene | 9.532 | 91 | 109489m | 2.225 | ppbv | | |
| 60) o-Xylene | 9.966 | 91 | 20222 | 0.408 | ppbv | | 97 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042360.D
Acq On : 17 Apr 2025 16:44
Operator : SY/MD
Sample : Q1665-15DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 02:38:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025DL

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/18/2025
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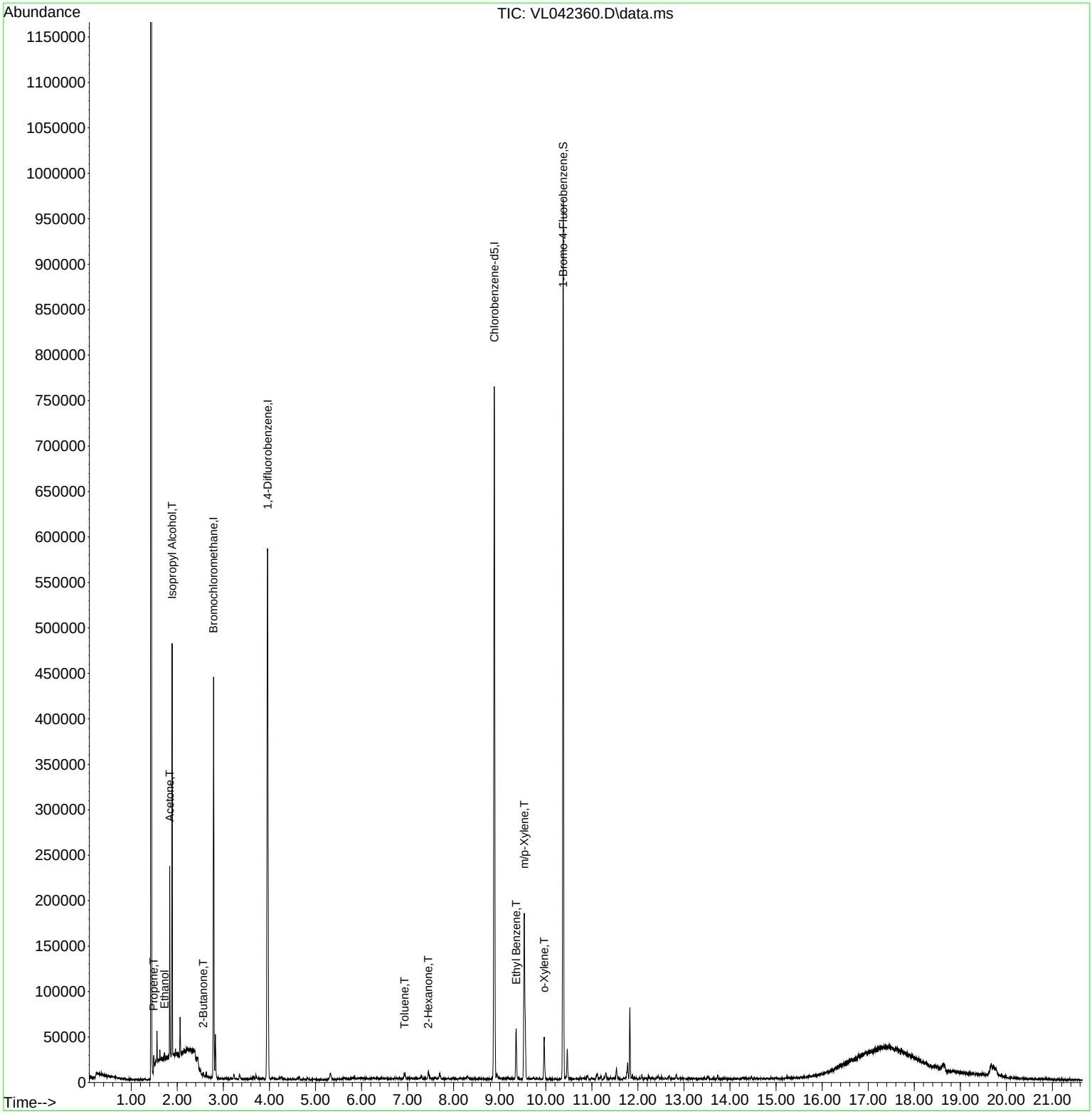
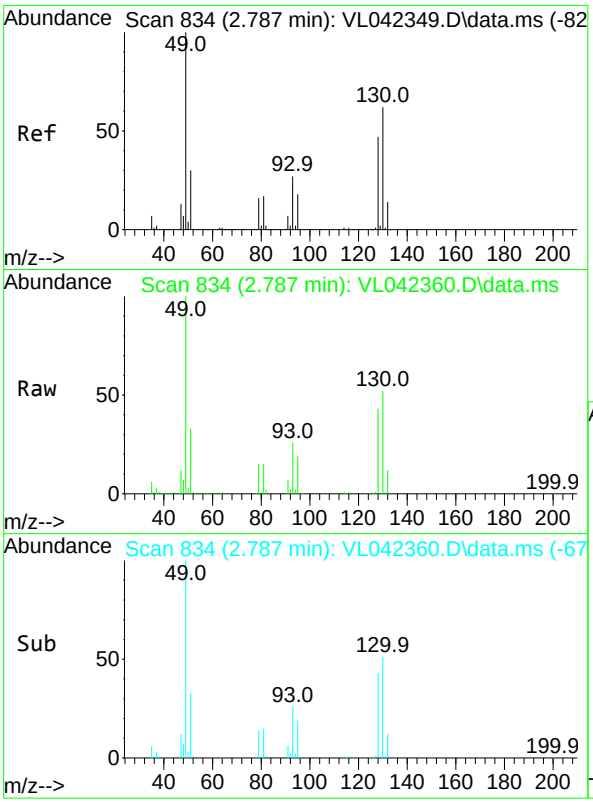
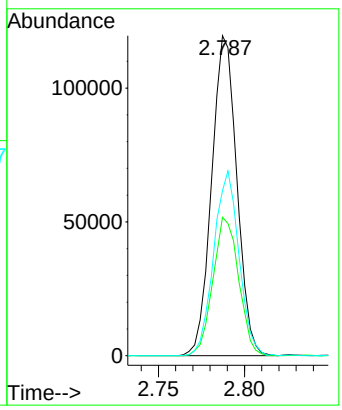





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

Tgt Ion: 49 Resp: 12191

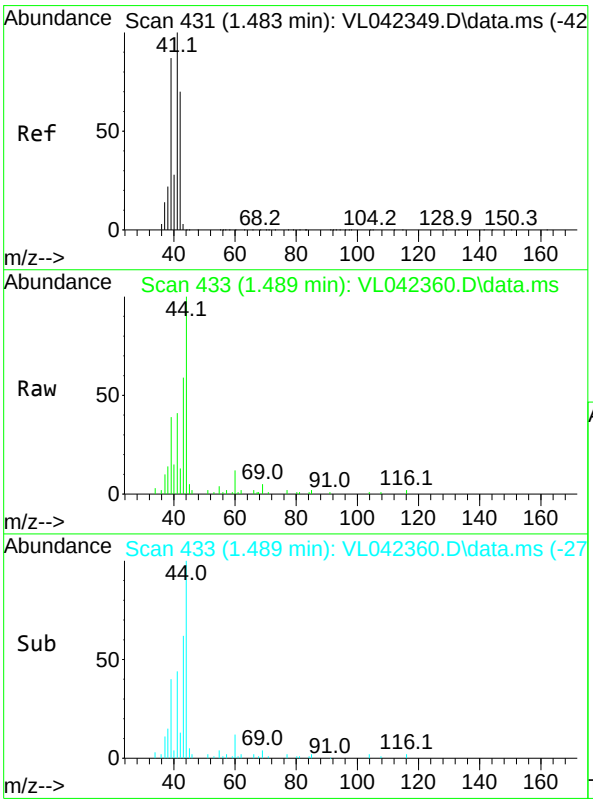
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 44.1 | 22.8 | 68.4 |
| 130 | 57.9 | 29.3 | 88.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025DL

**Manual Integrations**
**APPROVED**

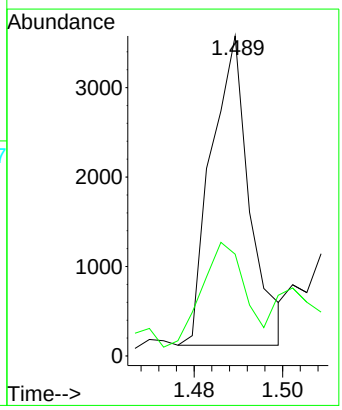
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

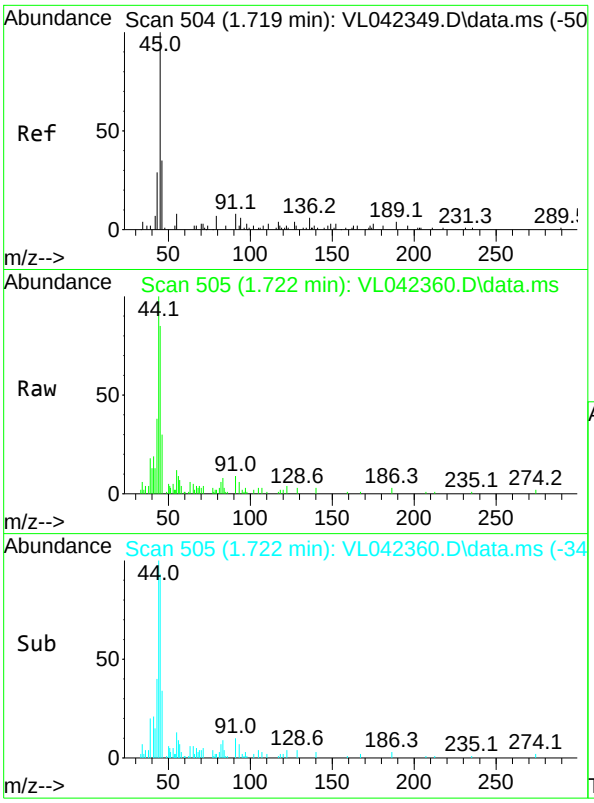



#9
Propene
Concen: 0.223 ppbv
RT: 1.489 min Scan# 433
Delta R.T. 0.007 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

Tgt Ion: 41 Resp: 2087

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 82.3 | 56.2 | 84.4 |

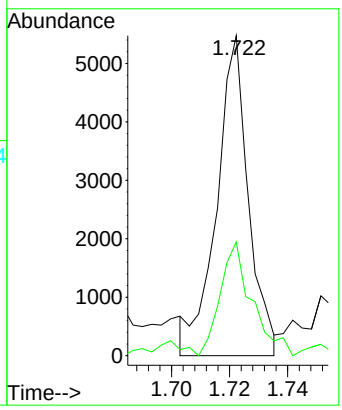





#13
Ethanol
Concen: 2.784 ppbv m
RT: 1.722 min Scan# 5(
Delta R.T. 0.003 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

Tgt Ion: 45 Resp: 413

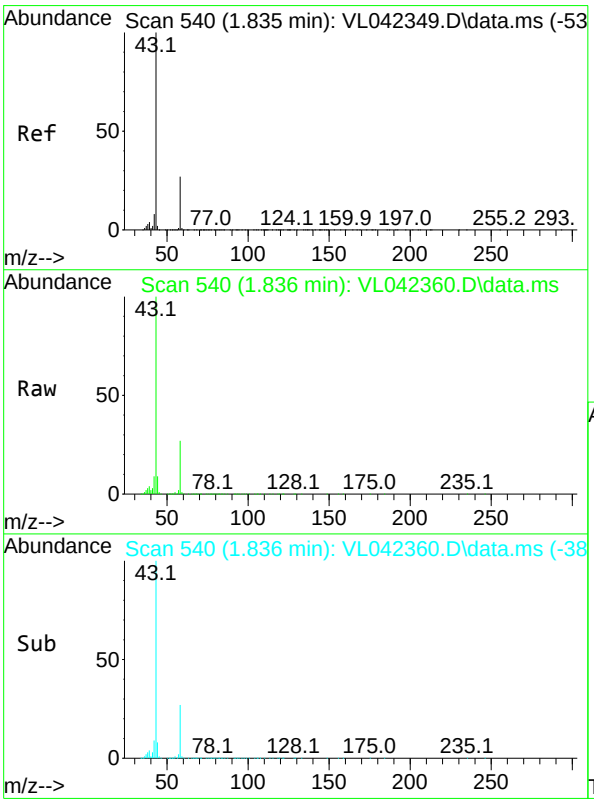
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 0.0 | 21.9 | 87.7 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025DL

**Manual Integrations**
**APPROVED**

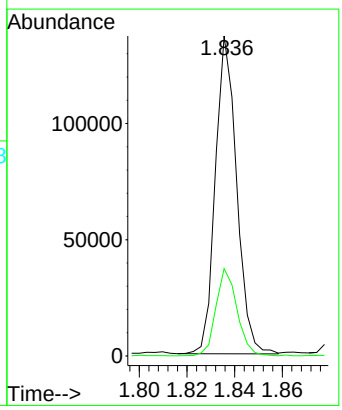
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

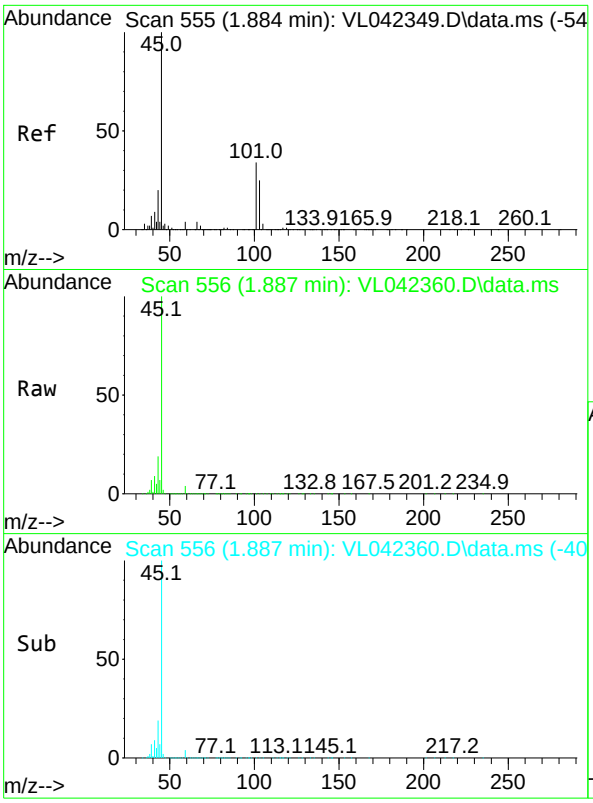



#15
Acetone
Concen: 4.252 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

Tgt Ion: 43 Resp: 84869

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 27.8 | 22.4 | 33.6 |






#19
Isopropyl Alcohol
Concen: 16.989 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

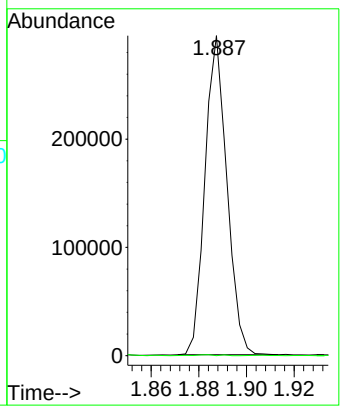
Tgt Ion: 45 Resp: 18836

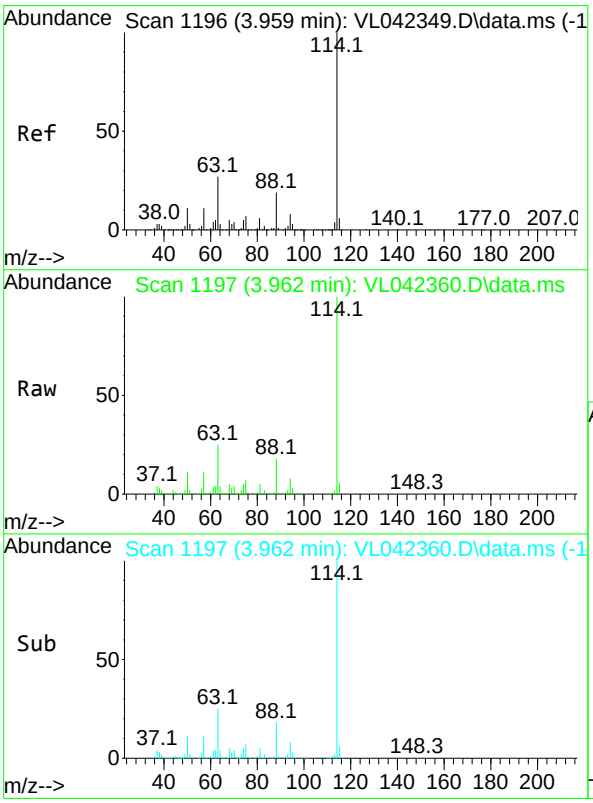
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 12.5 | 34.5 | 51.7# |

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025DL

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

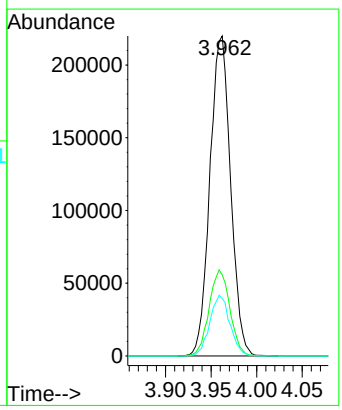


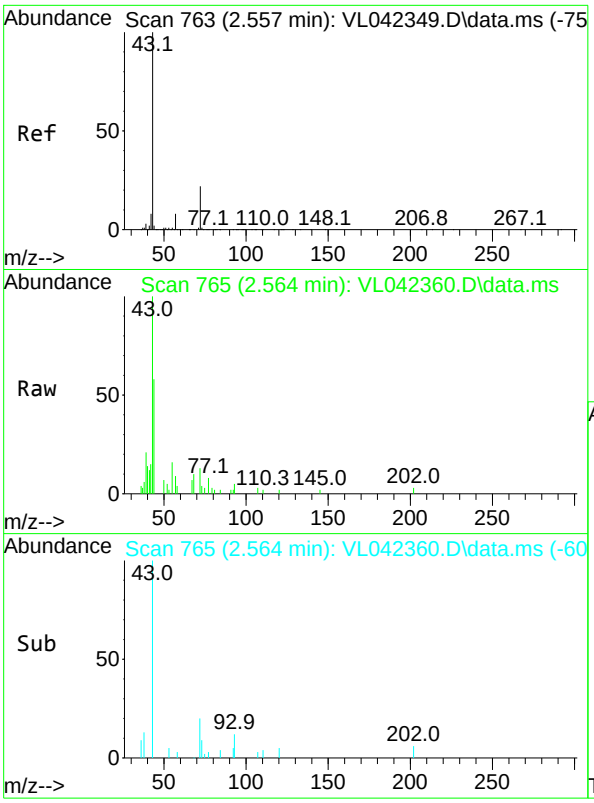




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.003 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

Tgt Ion:114 Resp: 347081

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 27.1 | 21.8 | 32.6 |
| 88 | 18.4 | 15.5 | 23.3 |






#34
2-Butanone
Concen: 0.128 ppbv m
RT: 2.564 min Scan# 7
Delta R.T. 0.007 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

Tgt Ion: 43 Resp: 350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 15.7 | 18.2 | 27.2# |

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025DL

**Manual Integrations**
**APPROVED**

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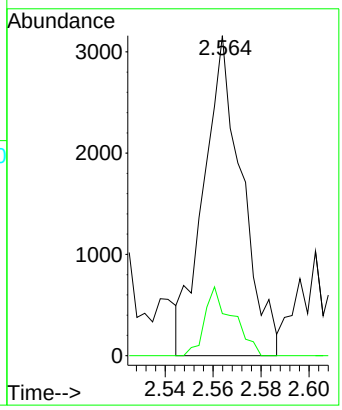
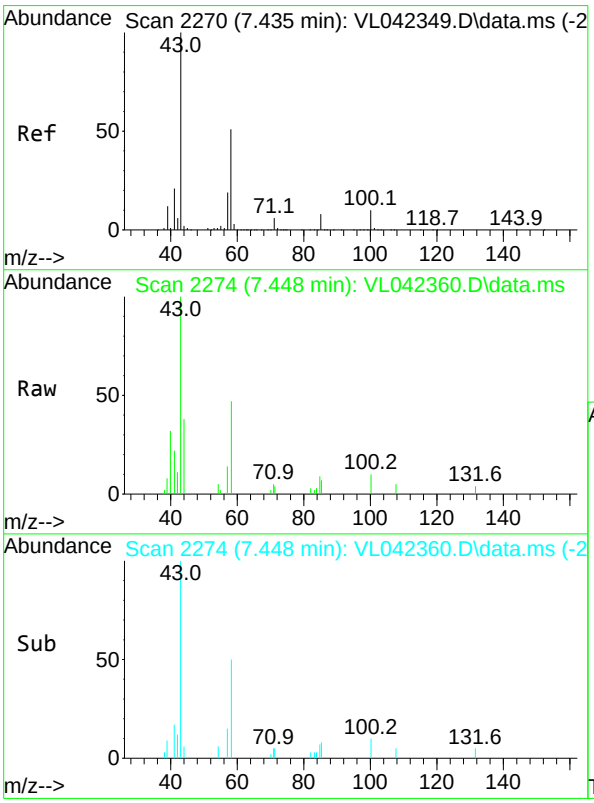
Supervised By :Mahesh Dadoda 04/18/2025

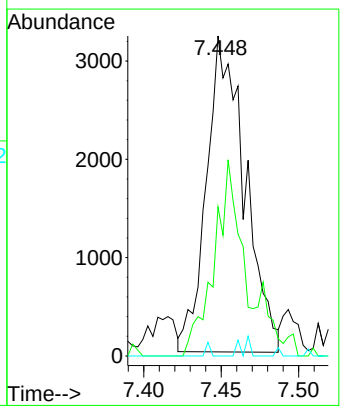


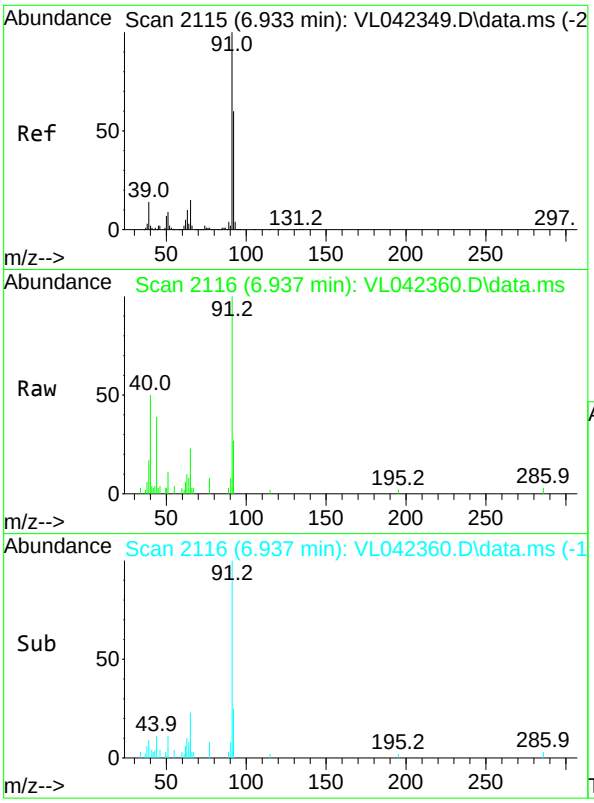




#51
2-Hexanone
Concen: 0.135 ppbv
RT: 7.448 min Scan# 2274
Delta R.T. 0.013 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

Tgt Ion: 43 Resp: 5539

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 53.1 | 40.2 | 60.4 |
| 98 | 0.0 | 0.1 | 0.1# |






#53
Toluene
Concen: 0.102 ppbv m
RT: 6.937 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

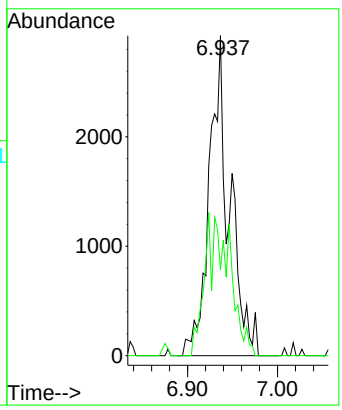
Tgt Ion: 91 Resp: 456

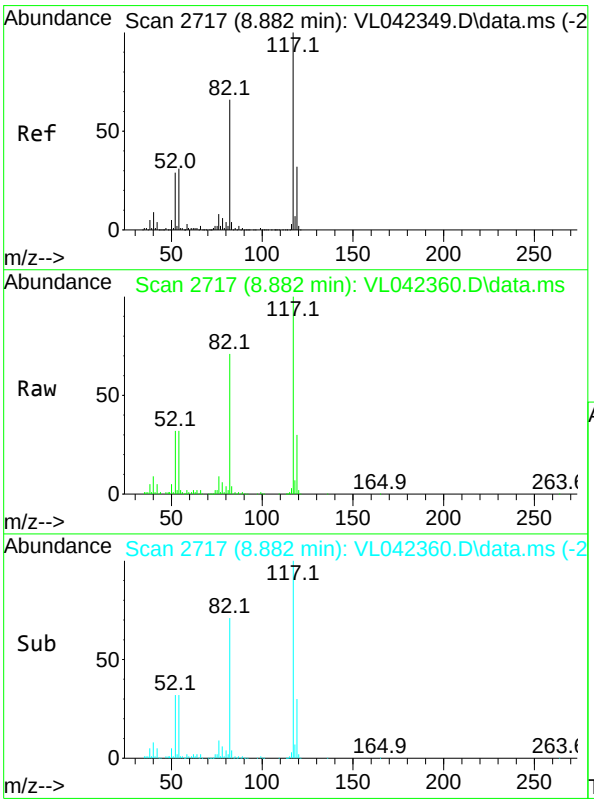
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 0.0 | 48.2 | 72.4 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025DL

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

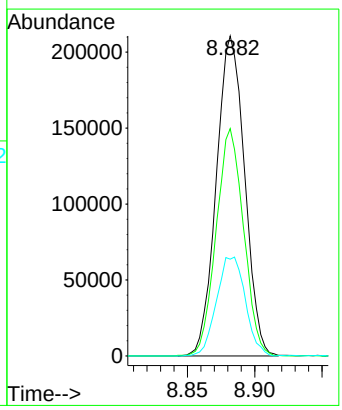


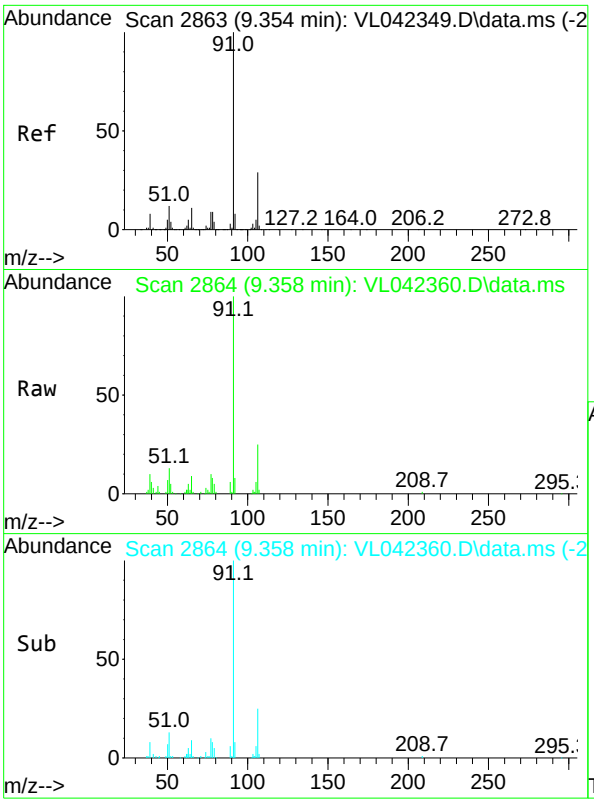




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. 0.000 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

Tgt Ion:117 Resp: 308280

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 68.8 | 57.8 | 86.6 |
| 119 | 31.5 | 25.2 | 37.8 |

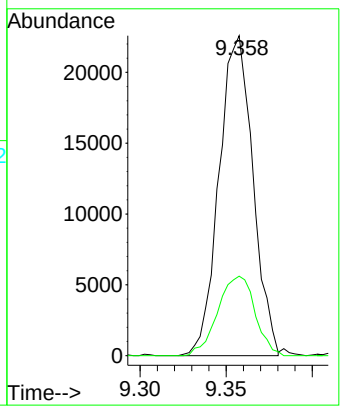





#58
Ethyl Benzene
Concen: 0.507 ppbv
RT: 9.358 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

Tgt Ion: 91 Resp: 3094

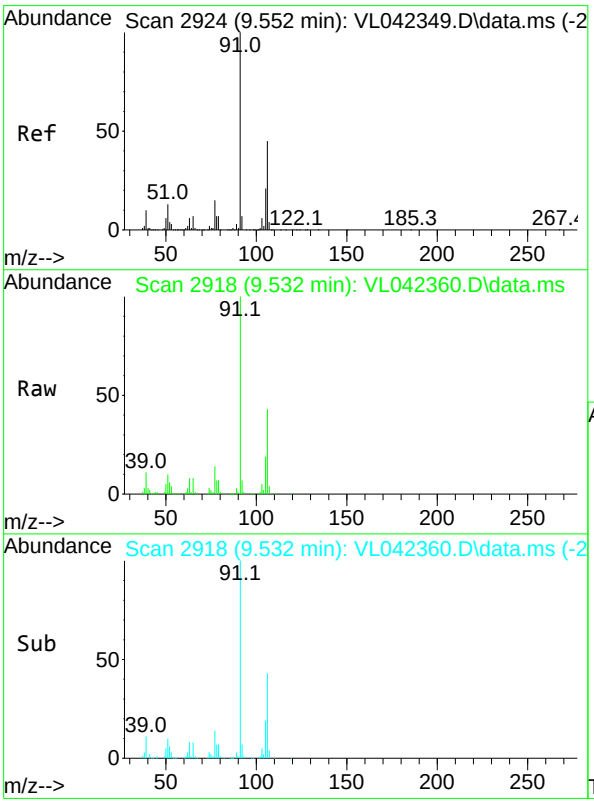
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 24.8 | 23.0 | 34.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025DL

**Manual Integrations**
**APPROVED**

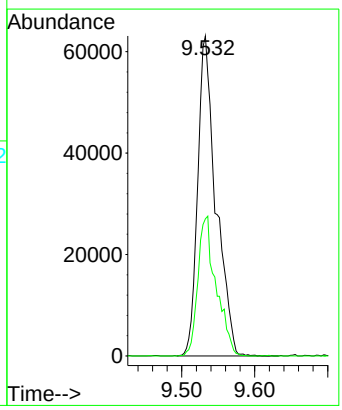
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

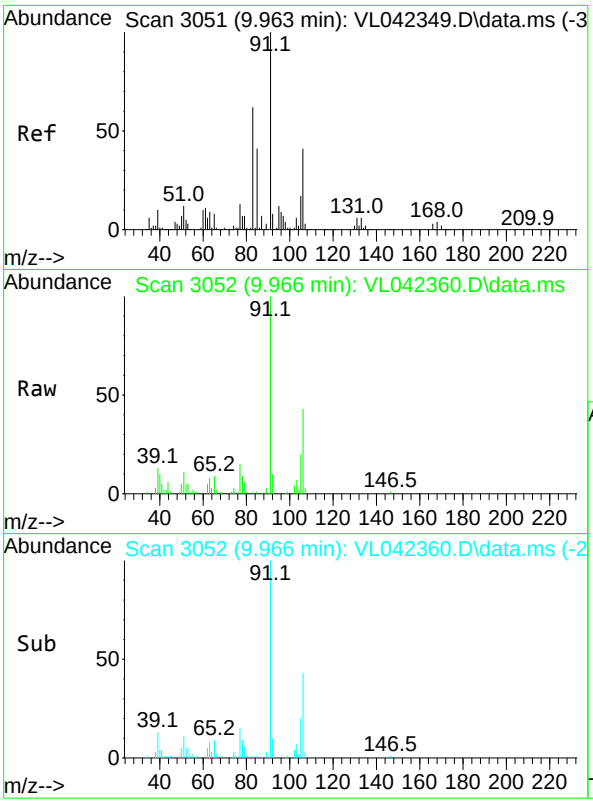



#59
m/p-Xylene
Concen: 2.225 ppbv m
RT: 9.532 min Scan# 2918
Delta R.T. -0.019 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

Tgt Ion: 91 Resp: 109489

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 43.8 | 35.4 | 53.2 |

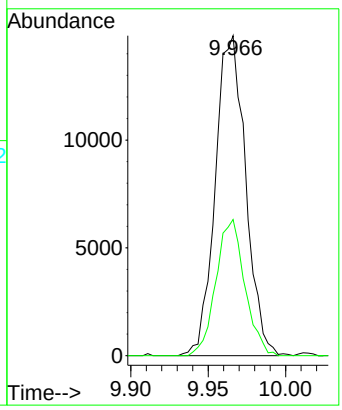





#60
o-Xylene
Concen: 0.408 ppbv
RT: 9.966 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

Tgt Ion: 91 Resp: 2022

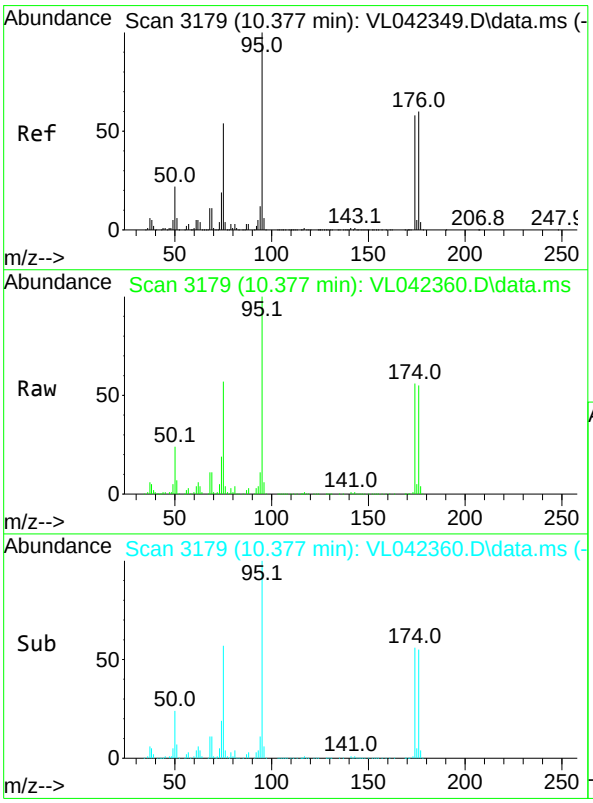
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 40.4 | 21.1 | 63.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025DL

**Manual Integrations**
**APPROVED**

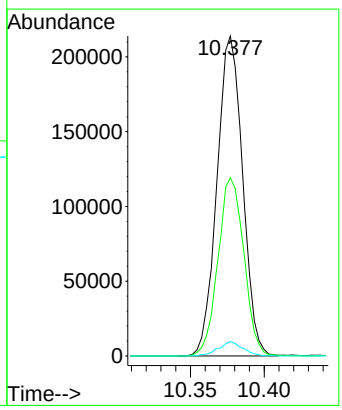
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025




#68
1-Bromo-4-Fluorobenzene
Concen: 10.226 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

Tgt Ion: 95 Resp: 259047

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 56.2 | 48.5 | 72.7 |
| 175 | 4.3 | 3.7 | 5.5 |



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B2-5-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-16 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042422.D | 1 | | 04/28/25 12:51 | VL042825 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.42 | 2.08 | J | 1.04 | 2.47 | ug/m3 |
| 64-17-5 | Ethanol | 480 | 904 | EQ | 0.60 | 0.94 | ug/m3 |
| 74-87-3 | Chloromethane | 1.00 | 2.07 | | 0.21 | 1.03 | ug/m3 |
| 75-01-4 | Vinyl Chloride | 0.010 | 0.030 | U | 0.030 | 0.080 | ug/m3 |
| 74-83-9 | Bromomethane | 0.14 | 0.54 | U | 0.54 | 1.94 | ug/m3 |
| 75-00-3 | Chloroethane | 0.17 | 0.45 | U | 0.45 | 1.32 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | 0.16 | 0.47 | J | 0.38 | 1.47 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | 0.22 | 1.24 | J | 0.90 | 2.81 | ug/m3 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.16 | 1.23 | U | 1.23 | 3.83 | ug/m3 |
| 76-14-2 | Dichlorotetrafluoroethane | 0.090 | 0.63 | U | 0.63 | 3.49 | ug/m3 |
| 593-60-2 | Bromoethene | 0.12 | 0.52 | U | 0.52 | 2.19 | ug/m3 |
| 75-65-0 | tert-Butyl alcohol | 0.24 | 0.73 | J | 0.58 | 1.52 | ug/m3 |
| 142-82-5 | Heptane | 0.66 | 2.70 | | 0.45 | 2.05 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | 29.3 | 72.0 | E | 0.17 | 1.23 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethene | 0.14 | 0.56 | U | 0.56 | 1.98 | ug/m3 |
| 67-64-1 | Acetone | 11.7 | 27.8 | | 0.57 | 1.19 | ug/m3 |
| 75-15-0 | Carbon Disulfide | 0.16 | 0.50 | U | 0.50 | 1.56 | ug/m3 |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.12 | 0.43 | U | 0.43 | 1.80 | ug/m3 |
| 75-09-2 | Methylene Chloride | 0.65 | 2.26 | | 0.66 | 1.74 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.19 | 0.75 | U | 0.75 | 1.98 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | 0.13 | 0.53 | U | 0.53 | 2.02 | ug/m3 |
| 110-82-7 | Cyclohexane | 0.50 | 1.72 | | 0.76 | 1.72 | ug/m3 |
| 78-93-3 | 2-Butanone | 0.80 | 2.36 | | 0.35 | 1.47 | ug/m3 |
| 56-23-5 | Carbon Tetrachloride | 0.090 | 0.57 | | 0.060 | 0.19 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.090 | 0.36 | U | 0.36 | 1.98 | ug/m3 |
| 67-66-3 | Chloroform | 0.18 | 0.88 | J | 0.39 | 2.44 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.010 | 0.050 | U | 0.050 | 0.16 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | 1.00 | 4.67 | | 0.47 | 2.34 | ug/m3 |
| 71-43-2 | Benzene | 0.68 | 2.17 | | 0.29 | 1.60 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | 0.090 | 0.36 | U | 0.36 | 2.02 | ug/m3 |
| 79-01-6 | Trichloroethene | 0.020 | 0.11 | U | 0.11 | 0.16 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | 0.11 | 0.51 | U | 0.51 | 2.31 | ug/m3 |
| 75-27-4 | Bromodichloromethane | 0.080 | 0.54 | U | 0.54 | 3.35 | ug/m3 |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.090 | 0.37 | U | 0.37 | 2.05 | ug/m3 |
| 108-88-3 | Toluene | 6.70 | 25.3 | | 0.41 | 1.88 | ug/m3 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B2-5-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-16 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042422.D | 1 | | 04/28/25 12:51 | VL042825 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.060 | 0.27 | U | 0.27 | 2.27 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.060 | 0.27 | U | 0.27 | 2.27 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.070 | 0.38 | U | 0.38 | 2.73 | ug/m3 |
| 124-48-1 | Dibromochloromethane | 0.070 | 0.60 | U | 0.60 | 4.26 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane | 0.070 | 0.54 | U | 0.54 | 0.77 | ug/m3 |
| 127-18-4 | Tetrachloroethene | 0.020 | 0.14 | U | 0.14 | 0.20 | ug/m3 |
| 108-90-7 | Chlorobenzene | 0.080 | 0.37 | U | 0.37 | 2.30 | ug/m3 |
| 100-41-4 | Ethyl Benzene | 0.58 | 2.52 | | 0.52 | 2.17 | ug/m3 |
| 179601-23-1 | m/p-Xylene | 2.00 | 8.69 | | 0.91 | 4.34 | ug/m3 |
| 95-47-6 | o-Xylene | 0.69 | 3.00 | | 0.52 | 2.17 | ug/m3 |
| 100-42-5 | Styrene | 0.25 | 1.06 | J | 0.47 | 2.13 | ug/m3 |
| 75-25-2 | Bromoform | 0.060 | 0.62 | U | 0.62 | 5.17 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.010 | 0.070 | U | 0.070 | 0.21 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | 0.32 | 1.66 | J | 0.57 | 2.59 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.27 | 1.33 | J | 0.54 | 2.46 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.76 | 3.74 | | 0.39 | 2.46 | ug/m3 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.080 | 0.48 | U | 0.48 | 3.01 | ug/m3 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.050 | 0.30 | U | 0.30 | 3.01 | ug/m3 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.080 | 0.48 | U | 0.48 | 3.01 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.090 | 0.67 | U | 0.67 | 3.71 | ug/m3 |
| 87-68-3 | Hexachloro-1,3-Butadiene | 0.090 | 0.96 | U | 0.96 | 5.33 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | 0.13 | 0.29 | U | 0.29 | 1.11 | ug/m3 |
| 91-20-3 | Naphthalene | 0.080 | 0.42 | U | 0.42 | 0.52 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | 0.24 | 1.18 | J | 0.59 | 2.46 | ug/m3 |
| 110-54-3 | Hexane | 3.20 | 11.3 | | 0.39 | 1.76 | ug/m3 |
| 107-05-1 | Allyl Chloride | 0.15 | 0.47 | U | 0.47 | 1.57 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | 0.21 | 0.76 | U | 0.76 | 1.80 | ug/m3 |
| 80-62-6 | Methyl Methacrylate | 0.090 | 0.37 | U | 0.37 | 2.05 | ug/m3 |
| **SURROGATES** | | | | | | | |
| 460-00-4 | 1-Bromo-4-Fluorobenzene | 10.7 | | | 70 (65) - 130 (135) | 107% | SPK: 10 |
| **INTERNAL STANDARDS** | | | | | | | |
| 74-97-5 | Bromochloromethane | 143000 | | 2.78 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 401000 | | 3.949 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 346000 | | 8.872 | | | |
| **TENTITIVE IDENTIFIED COMPOUNDS** | | | | | | | |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B2-5-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-16 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042422.D | 1 | | 04/28/25 12:51 | VL042825 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 75-45-6 | Chlorodifluoromethane | 0.28 | | J | | 1.47 | ppbv |
| 115-07-1 | Propene | 1.30 | | J | | 1.48 | ppbv |
| 000106-97-8 | Butane | 1.20 | | J | | 1.62 | ppbv |
| 000109-66-0 | Pentane | 1.10 | | J | | 1.96 | ppbv |
| 000107-83-5 | Pentane, 2-methyl- | 2.30 | | J | | 2.47 | ppbv |
| 003769-23-1 | 1-Hexene, 4-methyl- | 1.60 | | J | | 2.62 | ppbv |
| 000096-37-7 | Cyclopentane, methyl- | 2.00 | | J | | 3.22 | ppbv |
| 000590-88-5 | 1,3-Butanediamine | 1.60 | | J | | 4.25 | ppbv |
| 000066-25-1 | Hexanal | 2.10 | | J | | 7.67 | ppbv |
| 103-65-1 | n-propylbenzene | 0.14 | | J | | 11.0 | ppbv |
| 99-87-6 | p-Isopropyltoluene | 0.19 | | J | | 11.9 | ppbv |
| 001120-21-4 | Undecane | 1.40 | | J | | 12.8 | ppbv |

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042422.D
Acq On : 28 Apr 2025 12:51
Operator : SY/MD
Sample : Q1665-16
Misc : 400mL/MSVOA_L
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-5-3242025

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

Quant Time: Apr 29 01:35:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 2.780 | 49 | 143445 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.949 | 114 | 401346 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.872 | 117 | 346372 | 10.000 | ppbv | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.367 | 95 | 304530 | 10.699 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 107.000% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.495 | 85 | 10522 | 0.415 | ppbv | | 95 |
| 3) Chlorodifluoromethane | 1.473 | 51 | 6648m | 0.275 | ppbv | | |
| 4) Chloromethane | 1.528 | 50 | 10118 | 1.009 | ppbv | # | 85 |
| 9) Propene | 1.483 | 41 | 13832m | 1.259 | ppbv | | |
| 10) Heptane | 4.968 | 43 | 20505m | 0.664 | ppbv | | |
| 11) Trichlorofluoromethane | 1.874 | 101 | 5172 | 0.215 | ppbv | | 93 |
| 13) Ethanol | 1.719 | 45 | 834583 | 477.751 | ppbv | | 78 |
| 15) Acetone | 1.832 | 43 | 273996 | 11.668 | ppbv | | 98 |
| 17) tert-Butyl alcohol | 2.039 | 59 | 7025m | 0.241 | ppbv | | |
| 19) Isopropyl Alcohol | 1.881 | 45 | 382160 | 29.296 | ppbv | # | 34 |
| 20) Methylene Chloride | 2.059 | 84 | 5939 | 0.646 | ppbv | # | 95 |
| 26) Hexane | 2.816 | 57 | 74514 | 3.180 | ppbv | # | 37 |
| 29) Chloroform | 2.839 | 83 | 6046 | 0.183 | ppbv | # | 82 |
| 30) Cyclohexane | 3.849 | 84 | 9447 | 0.499 | ppbv | | 90 |
| 34) 2-Butanone | 2.554 | 43 | 25286 | 0.797 | ppbv | | 99 |
| 35) Carbon Tetrachloride | 3.751 | 117 | 3431m | 0.094 | ppbv | | |
| 36) Benzene | 3.645 | 78 | 29627 | 0.684 | ppbv | # | 91 |
| 41) Tetrahydrofuran | 3.065 | 42 | 2983m | 0.161 | ppbv | | |
| 44) 2,2,4-Trimethylpentane | 4.632 | 57 | 77694m | 1.039 | ppbv | | |
| 53) Toluene | 6.923 | 91 | 350451 | 6.746 | ppbv | | 99 |
| 58) Ethyl Benzene | 9.348 | 91 | 39720 | 0.579 | ppbv | | 94 |
| 59) m/p-Xylene | 9.522 | 91 | 108081 | 1.955 | ppbv | | 97 |
| 60) o-Xylene | 9.956 | 91 | 38480 | 0.691 | ppbv | | 95 |
| 61) Styrene | 9.862 | 104 | 6537m | 0.246 | ppbv | | |
| 64) n-propylbenzene | 10.982 | 120 | 2864 | 0.139 | ppbv | # | 46 |
| 69) p-Isopropyltoluene | 11.921 | 119 | 17184 | 0.189 | ppbv | | 98 |
| 71) 2-Chlorotoluene | 10.895 | 91 | 20426 | 0.319 | ppbv | | 94 |
| 72) 4-Ethyltoluene | 11.118 | 105 | 16614 | 0.244 | ppbv | # | 56 |
| 73) 1,3,5-Trimethylbenzene | 11.199 | 105 | 16186 | 0.269 | ppbv | | 92 |
| 74) 1,2,4-Trimethylbenzene | 11.529 | 105 | 53644 | 0.764 | ppbv | # | 61 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

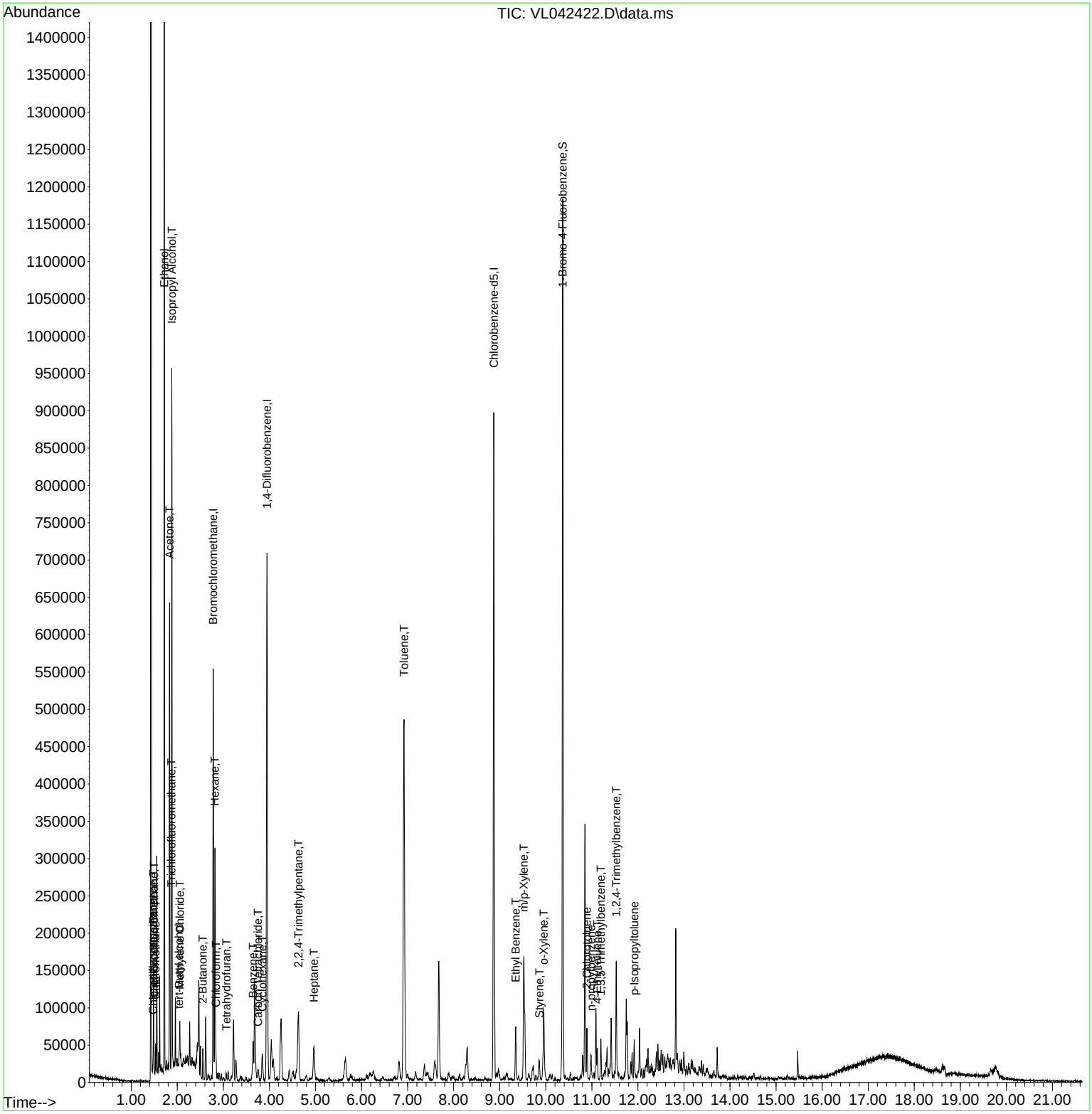
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042422.D
Acq On : 28 Apr 2025 12:51
Operator : SY/MD
Sample : Q1665-16
Misc : 400mL/MSVOA_L
ALS Vial : 9 Sample Multiplier: 1

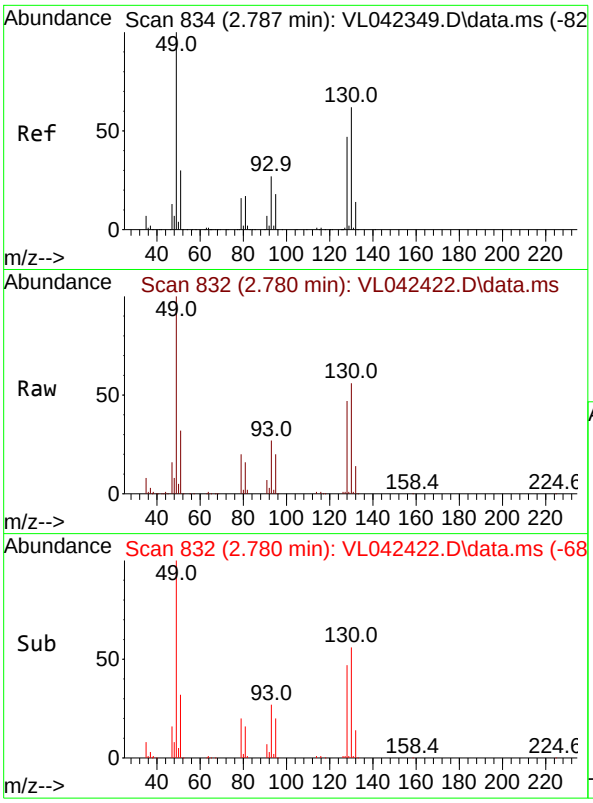
Quant Time: Apr 29 01:35:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-5-3242025

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

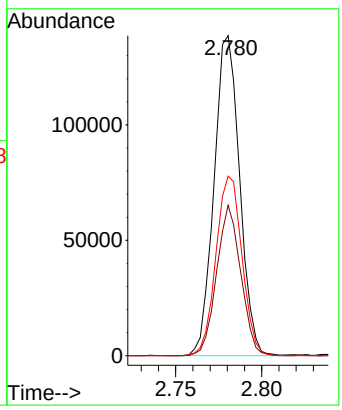





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.780 min Scan# 8
Delta R.T. -0.007 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion: 49 Resp: 14344

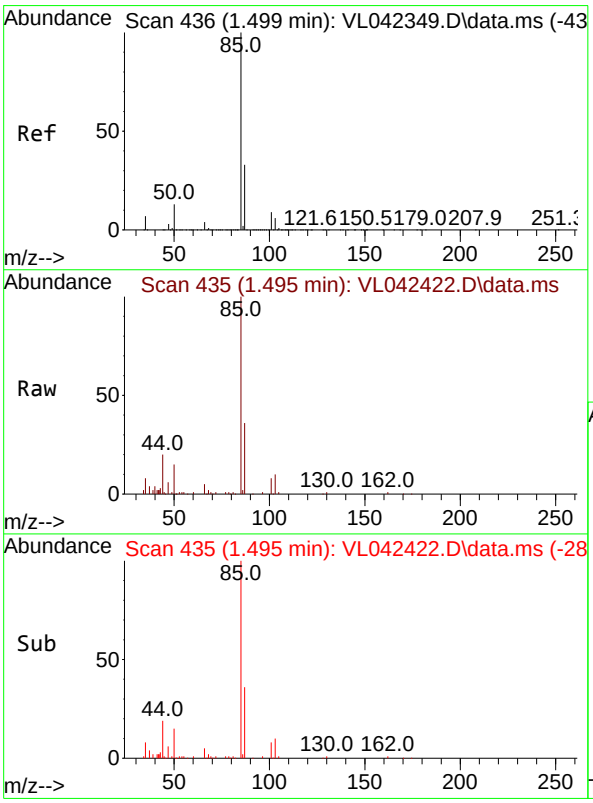
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 44.3 | 22.8 | 68.4 |
| 130 | 57.0 | 29.3 | 88.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-5-3242025

**Manual Integrations**
**APPROVED**

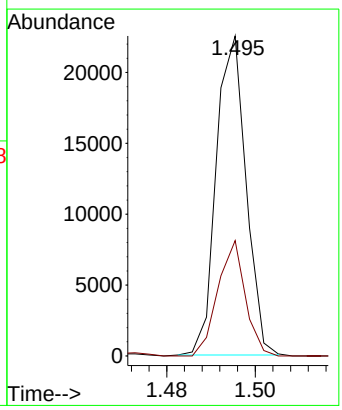
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

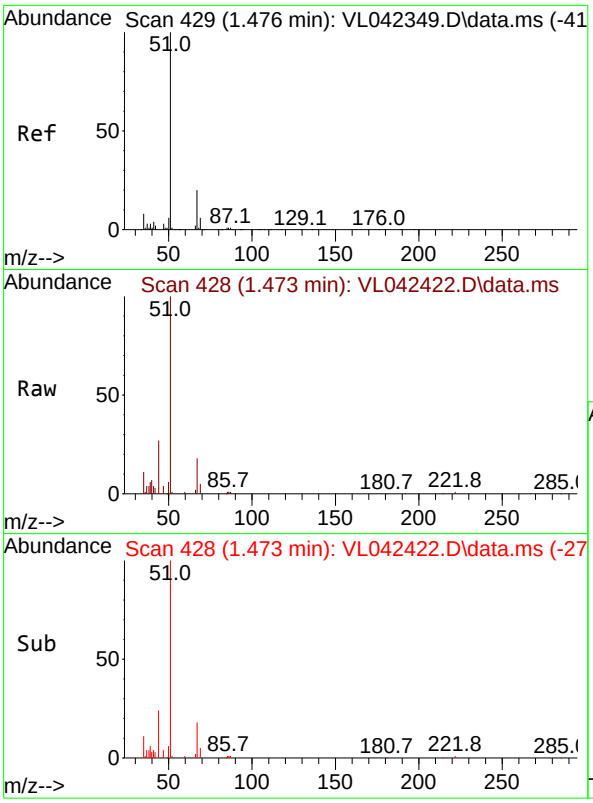



#2
Dichlorodifluoromethane
Concen: 0.415 ppbv
RT: 1.495 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion: 85 Resp: 10522

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 36.2 | 26.6 | 39.8 |






#3
Chlorodifluoromethane
Concen: 0.275 ppbv m
RT: 1.473 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

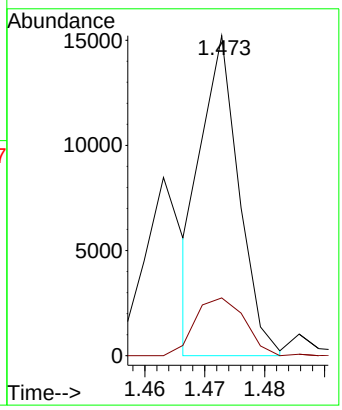
Tgt Ion: 51 Resp: 664

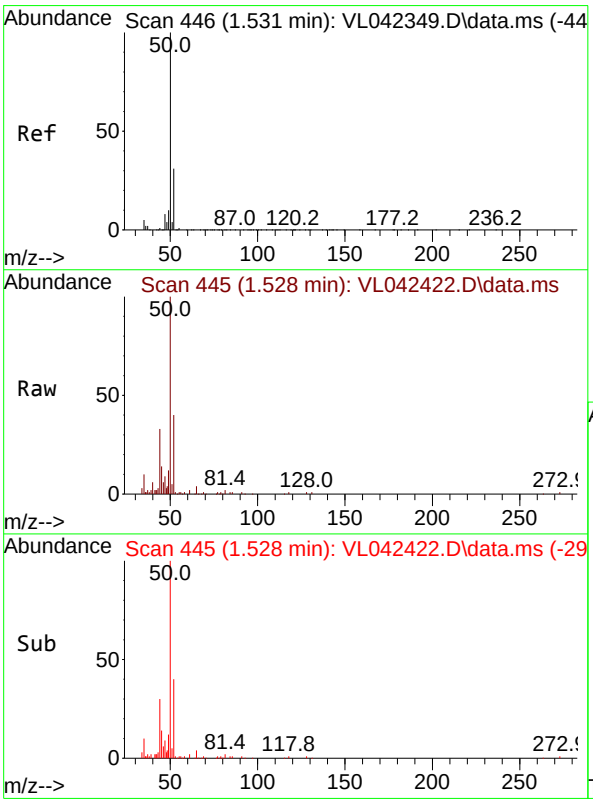
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 24.4 | 16.2 | 24.4# |

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-5-3242025

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

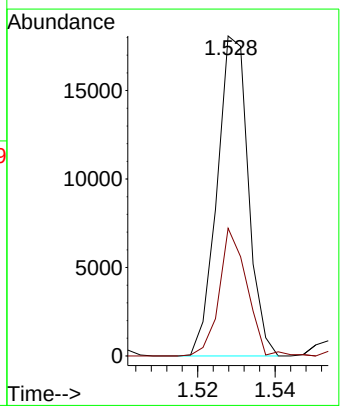


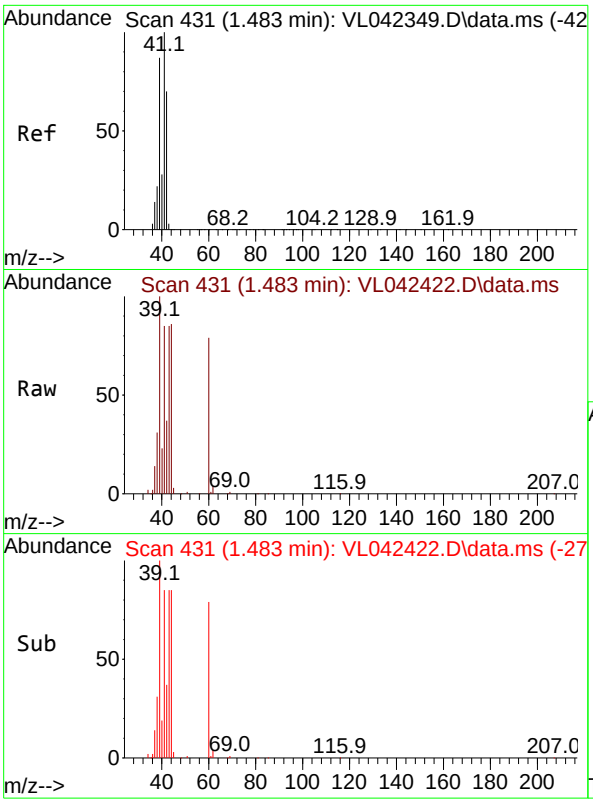




#4
Chloromethane
Concen: 1.009 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.003 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion: 50 Resp: 10118

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 39.3 | 24.7 | 37.1# |

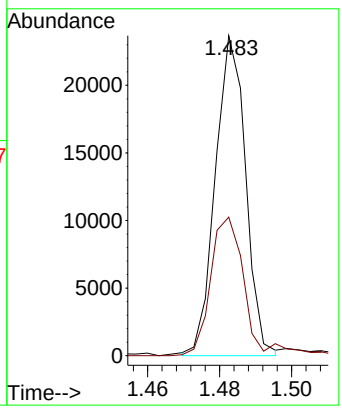





#9
Propene
Concen: 1.259 ppbv m
RT: 1.483 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion: 41 Resp: 1383

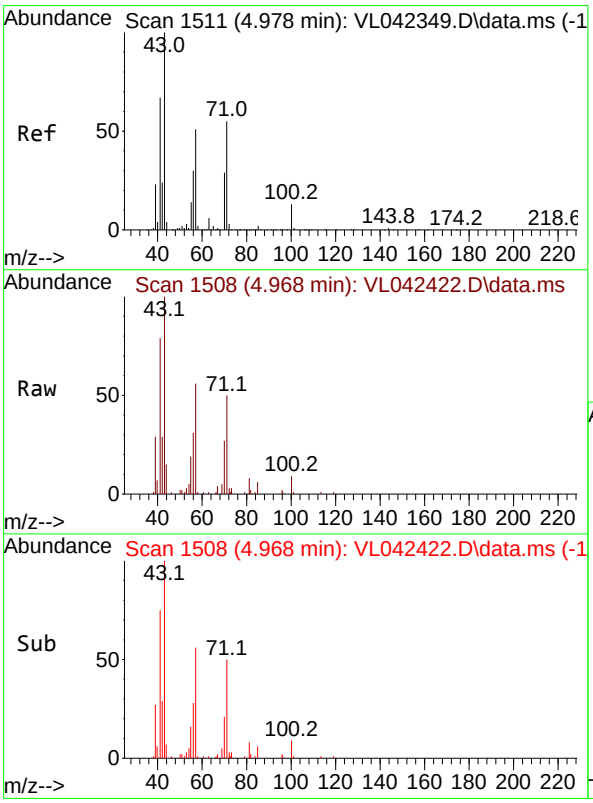
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 155.2 | 56.2 | 84.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-5-3242025

**Manual Integrations**
**APPROVED**

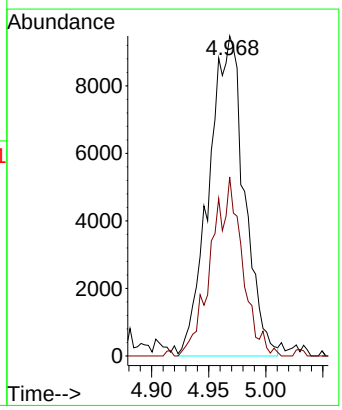
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

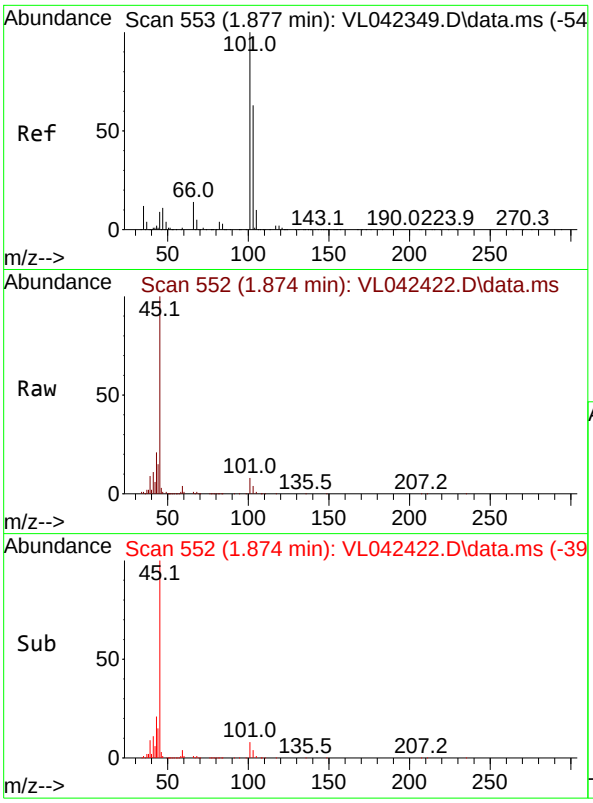



#10
Heptane
Concen: 0.664 ppbv m
RT: 4.968 min Scan# 1508
Delta R.T. -0.010 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion: 43 Resp: 20505

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 49.0 | 39.9 | 59.9 |






#11
Trichlorofluoromethane
Concen: 0.215 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

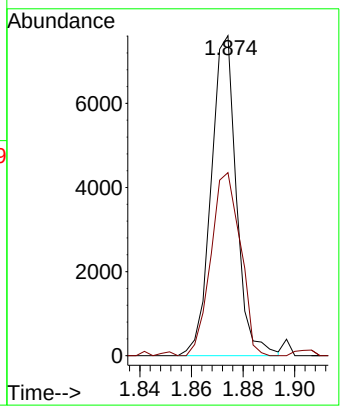
Tgt Ion:101 Resp: 517

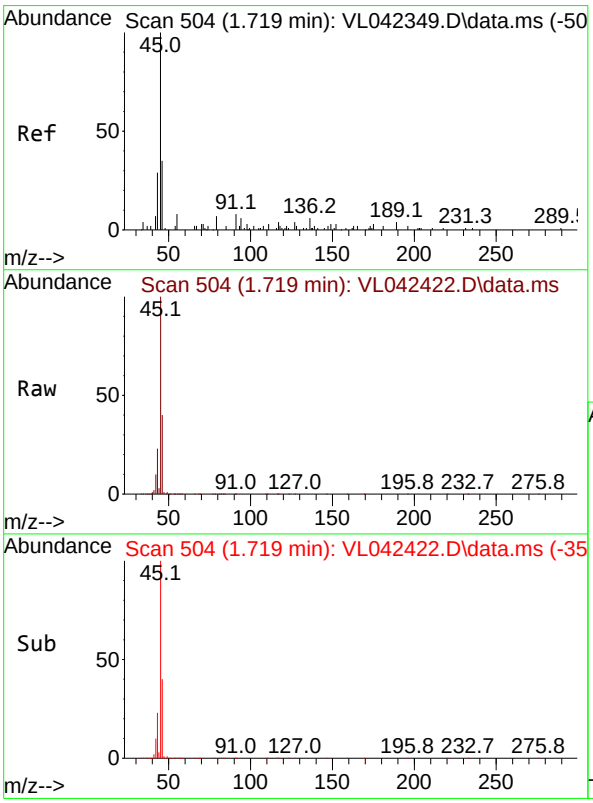
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 57.2 | 50.1 | 75.1 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-5-3242025

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

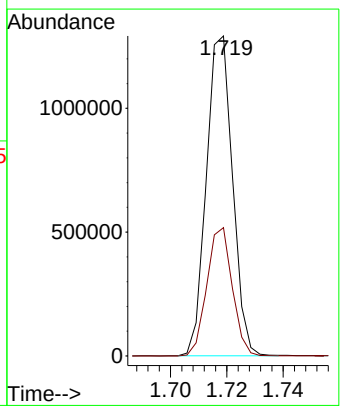


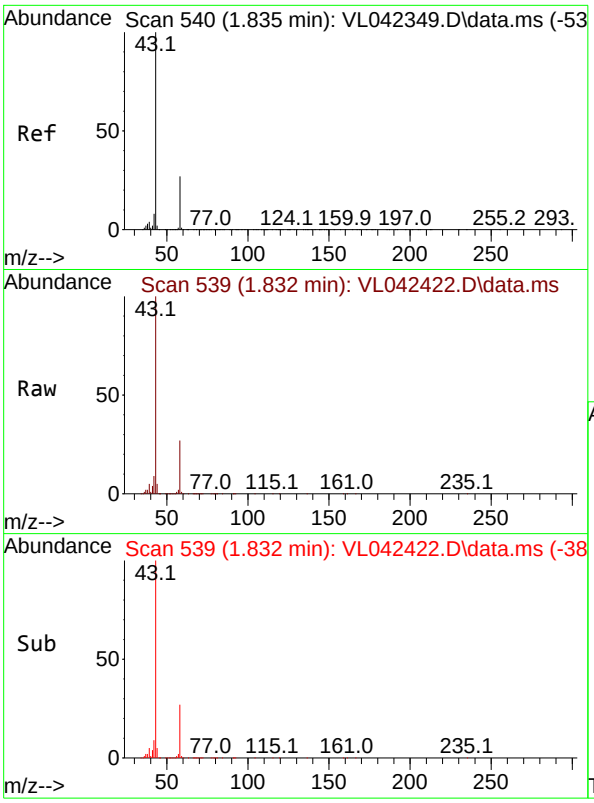




#13
Ethanol
Concen: 477.751 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion: 45 Resp: 834583

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 39.0 | 21.9 | 87.7 |

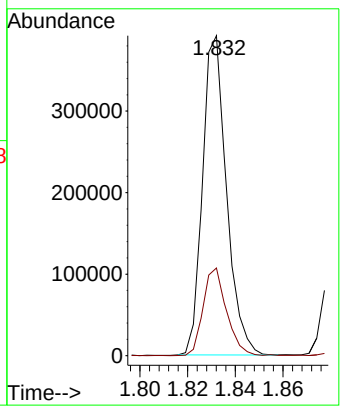





#15
Acetone
Concen: 11.668 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion: 43 Resp: 27399

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 27.0 | 22.4 | 33.6 |

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**Manual Integrations**
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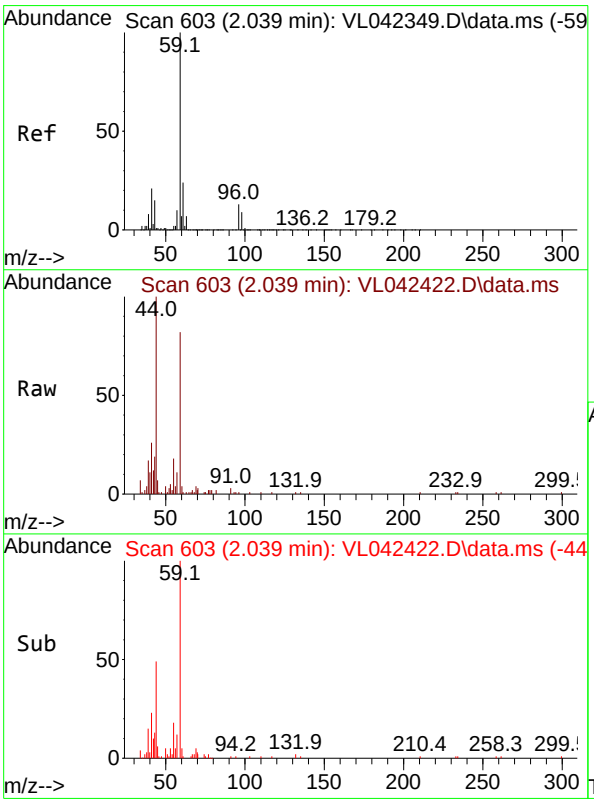
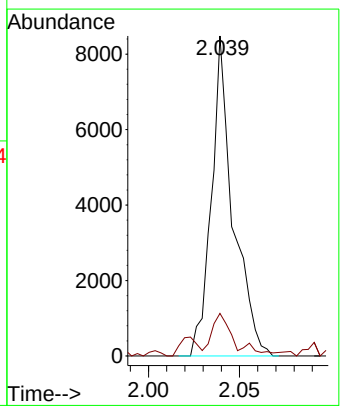
Supervised By :Mahesh Dadoda 04/30/2025

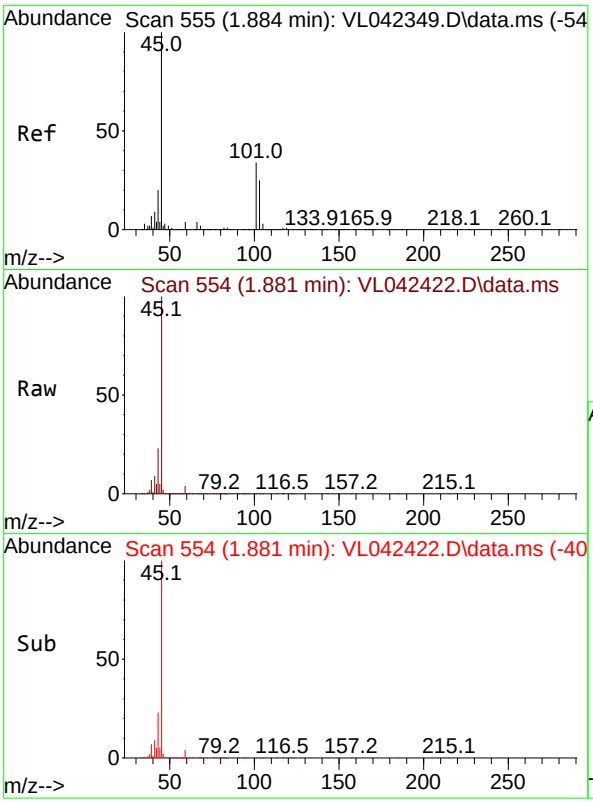



#17
tert-Butyl alcohol
Concen: 0.241 ppbv m
RT: 2.039 min Scan# 603
Delta R.T. -0.000 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion: 59 Resp: 7025

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 26.7 | 8.7 | 13.1# |






#19
Isopropyl Alcohol
Concen: 29.296 ppbv
RT: 1.881 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion: 45 Resp: 38216

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 0.8 | 34.5 | 51.7# |

**Instrument :**
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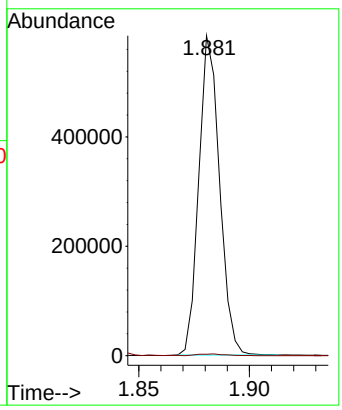
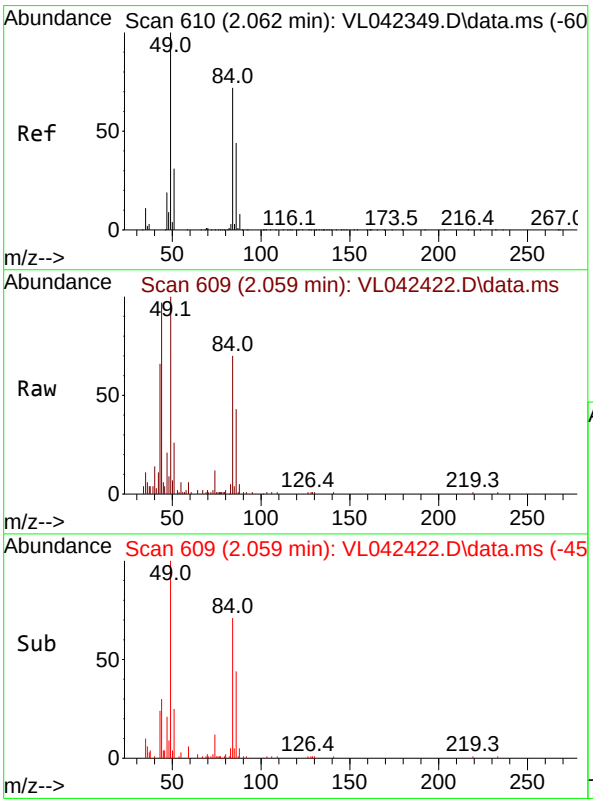
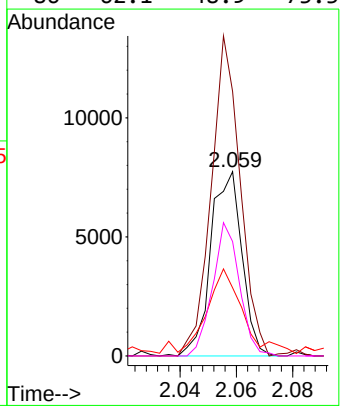


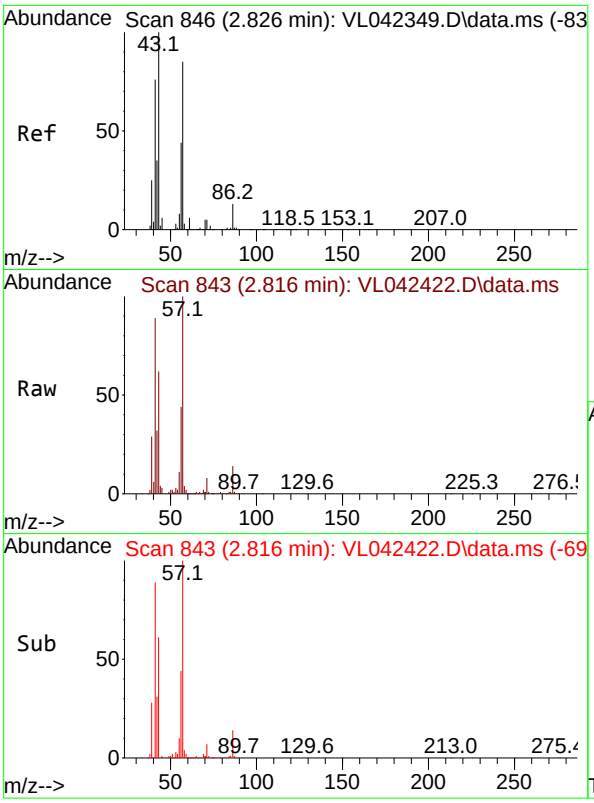




#20
Methylene Chloride
Concen: 0.646 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion: 84 Resp: 5939

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 143.4 | 111.6 | 167.4 |
| 51 | 35.0 | 35.1 | 52.7# |
| 86 | 62.1 | 48.9 | 73.3 |

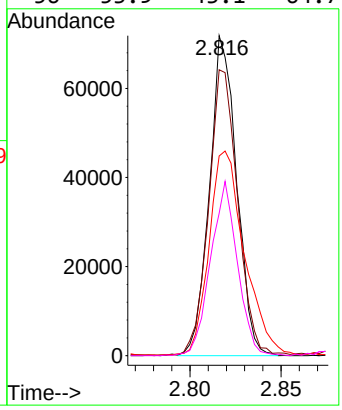





#26
Hexane
Concen: 3.180 ppbv
RT: 2.816 min Scan# 84
Delta R.T. -0.010 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion: 57 Resp: 7451

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 95.0 | 77.9 | 116.9 |
| 43 | 82.5 | 208.4 | 312.6# |
| 56 | 53.9 | 43.1 | 64.7 |




**Instrument :**
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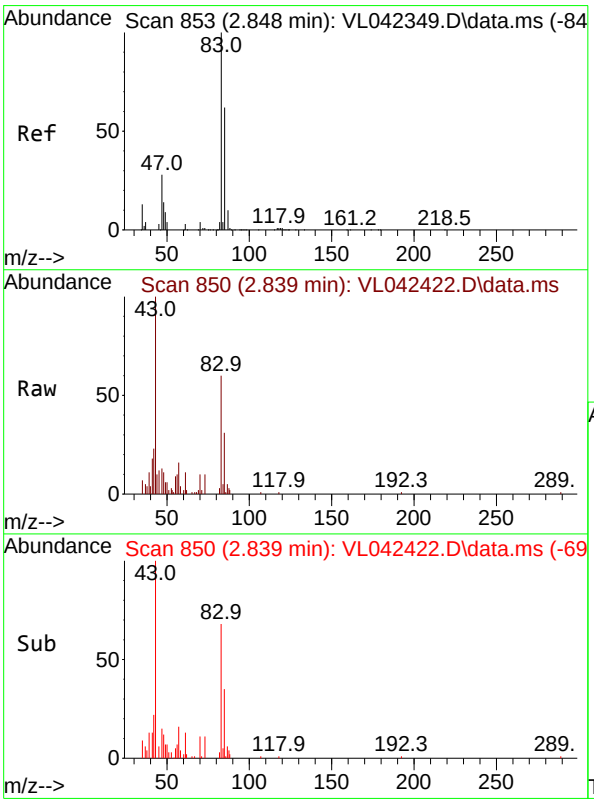
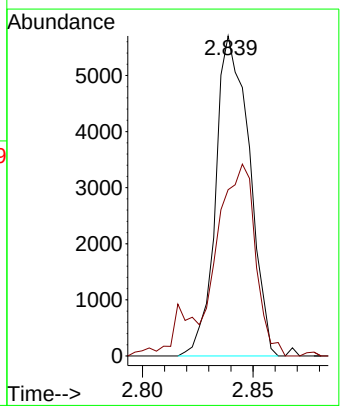
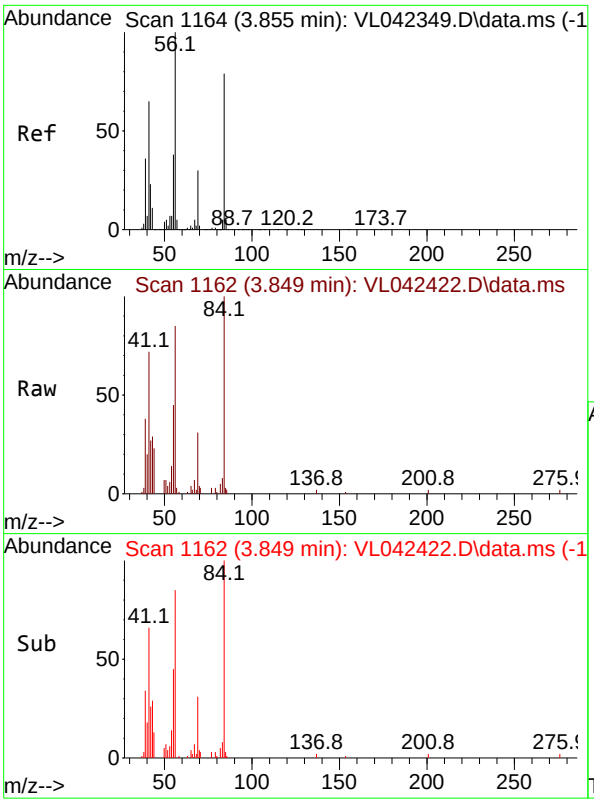



#29
Chloroform
Concen: 0.183 ppbv
RT: 2.839 min Scan# 850
Delta R.T. -0.010 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion: 83 Resp: 6046

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 49.0 | 50.0 | 75.0# |

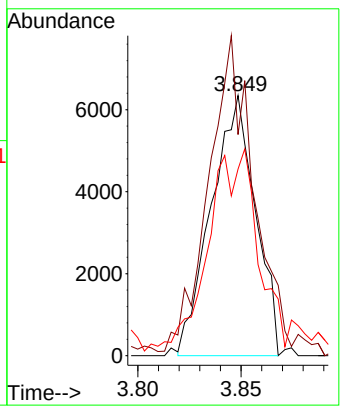





#30
Cyclohexane
Concen: 0.499 ppbv
RT: 3.849 min Scan# 11
Delta R.T. -0.007 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion: 84 Resp: 944

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 135.0 | 101.0 | 151.4 |
| 41 | 96.3 | 67.4 | 101.0 |




**Instrument :**
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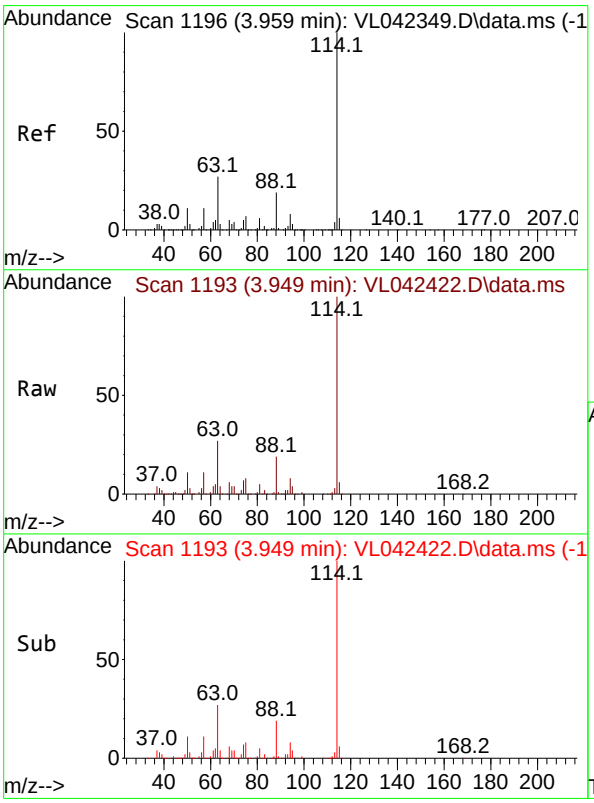
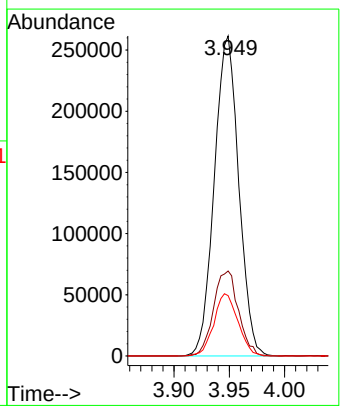
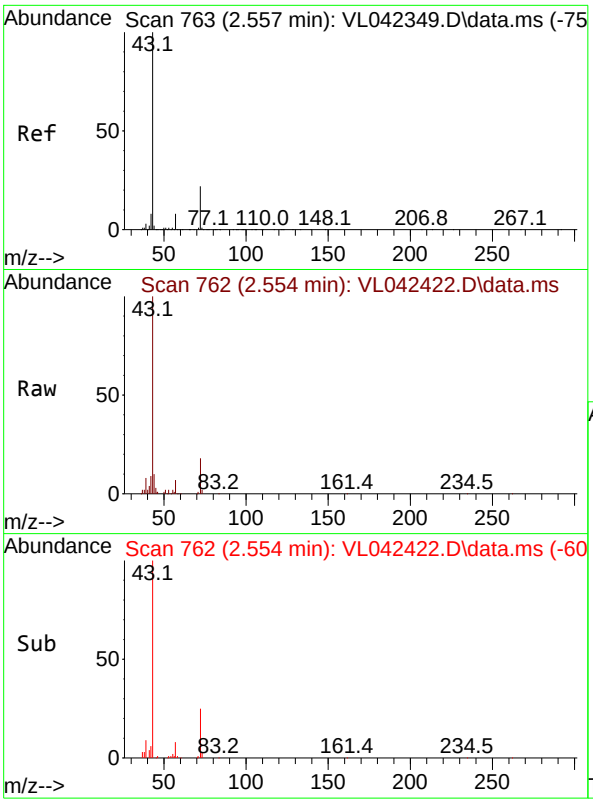



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. -0.010 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion:114 Resp: 401346

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 27.2 | 21.8 | 32.6 |
| 88 | 19.2 | 15.5 | 23.3 |

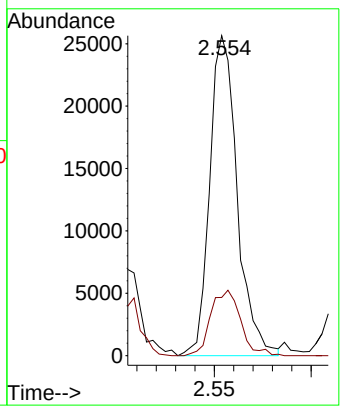





#34
2-Butanone
Concen: 0.797 ppbv
RT: 2.554 min Scan# 7
Delta R.T. -0.003 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion: 43 Resp: 2528

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 22.2 | 18.2 | 27.2 |

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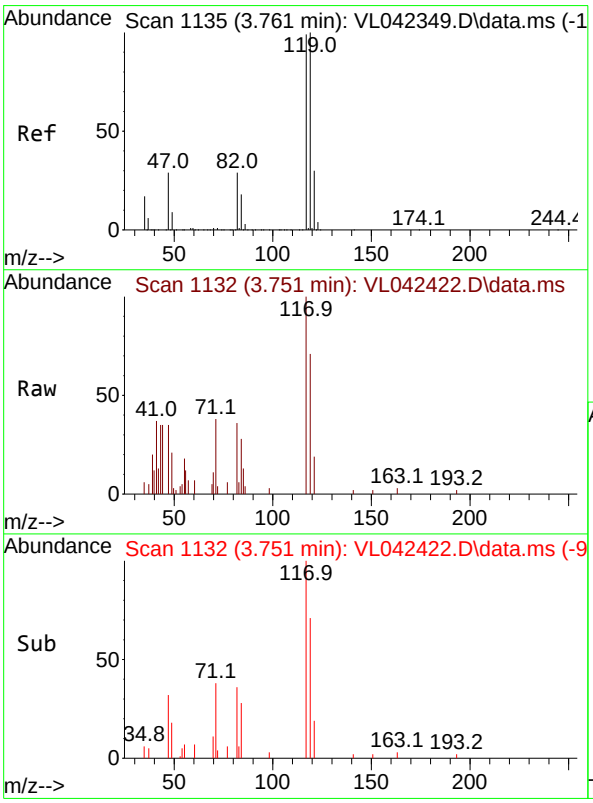
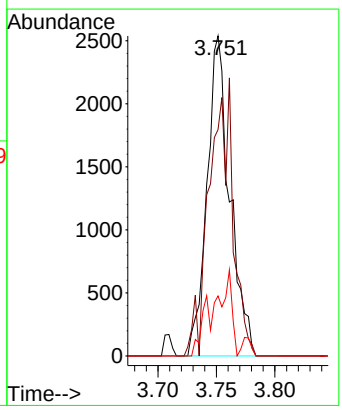
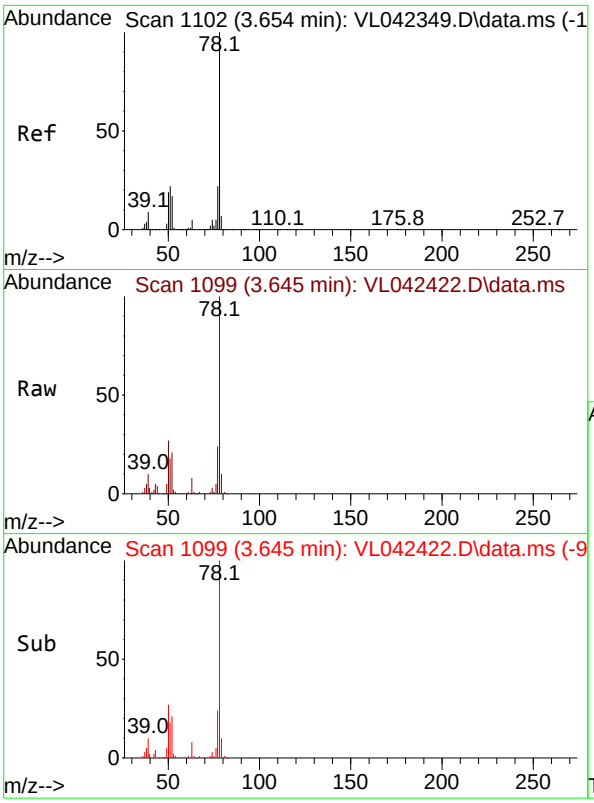



#35
Carbon Tetrachloride
Concen: 0.094 ppbv m
RT: 3.751 min Scan# 1132
Delta R.T. -0.010 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion:117 Resp: 3431

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 70.8 | 80.5 | 120.7# |
| 121 | 18.8 | 24.2 | 36.2# |

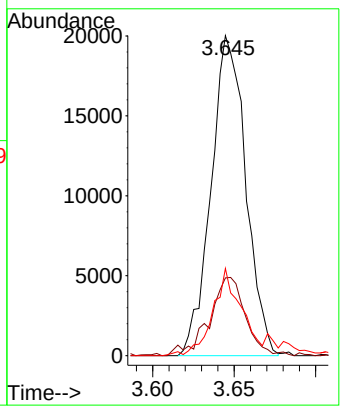





#36
Benzene
Concen: 0.684 ppbv
RT: 3.645 min Scan# 1
Delta R.T. -0.010 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion: 78 Resp: 2962

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.4 | 17.4 | 26.0 |
| 50 | 26.0 | 15.5 | 23.3# |

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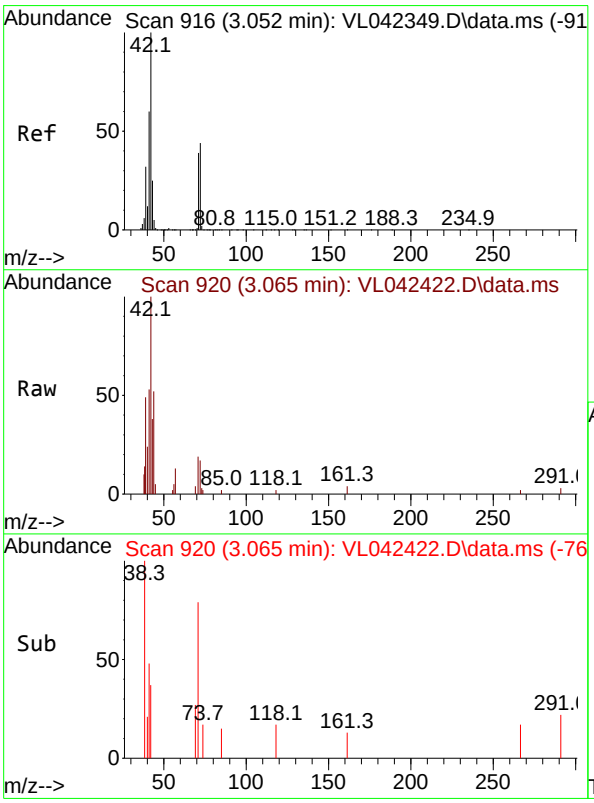
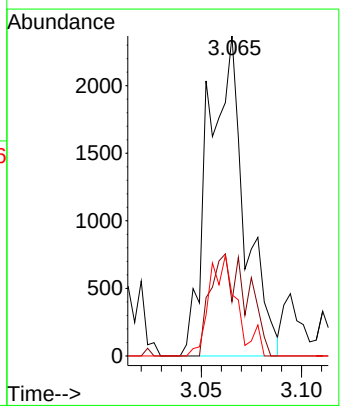
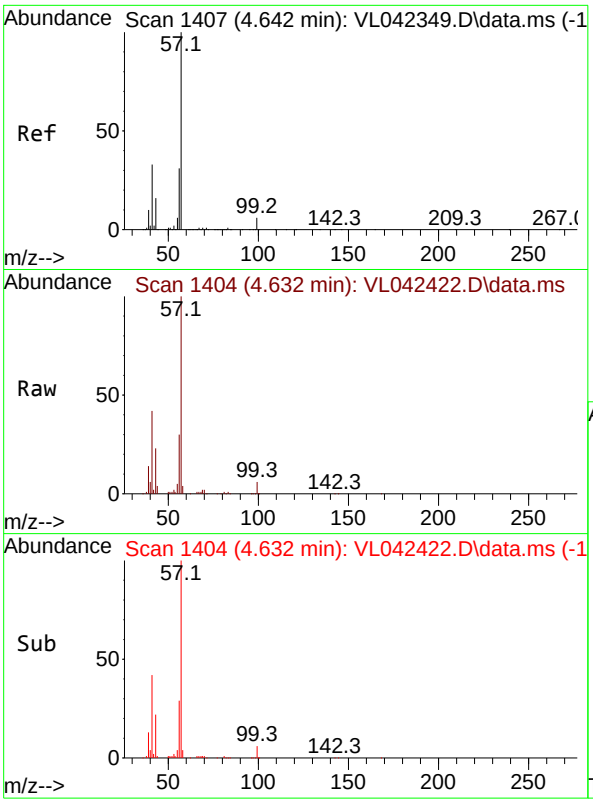



#41
Tetrahydrofuran
Concen: 0.161 ppbv m
RT: 3.065 min Scan# 920
Delta R.T. 0.013 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion: 42 Resp: 2983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 0.0 | 32.3 | 48.5# |
| 71 | 0.0 | 31.4 | 47.2# |

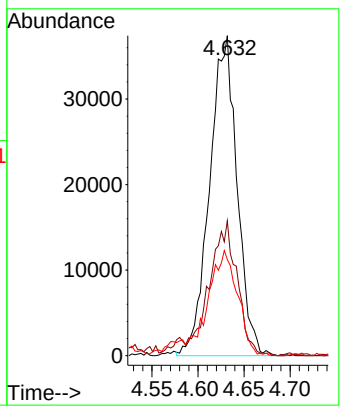





#44
2,2,4-Trimethylpentane
Concen: 1.039 ppbv m
RT: 4.632 min Scan# 14
Delta R.T. -0.010 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion: 57 Resp: 7769

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 44.2 | 27.2 | 40.8# |
| 56 | 38.7 | 25.7 | 38.5# |

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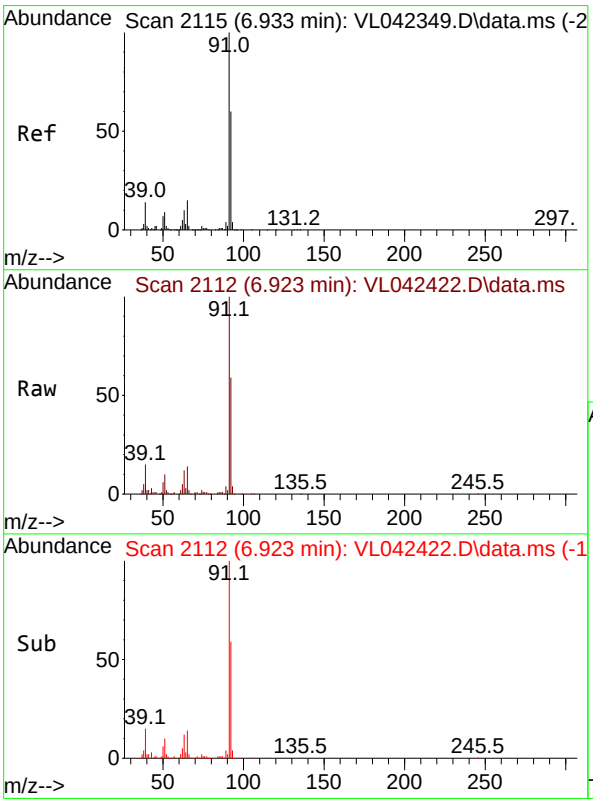
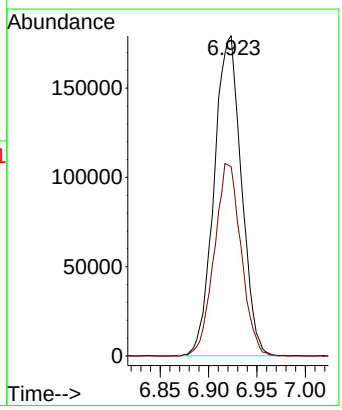
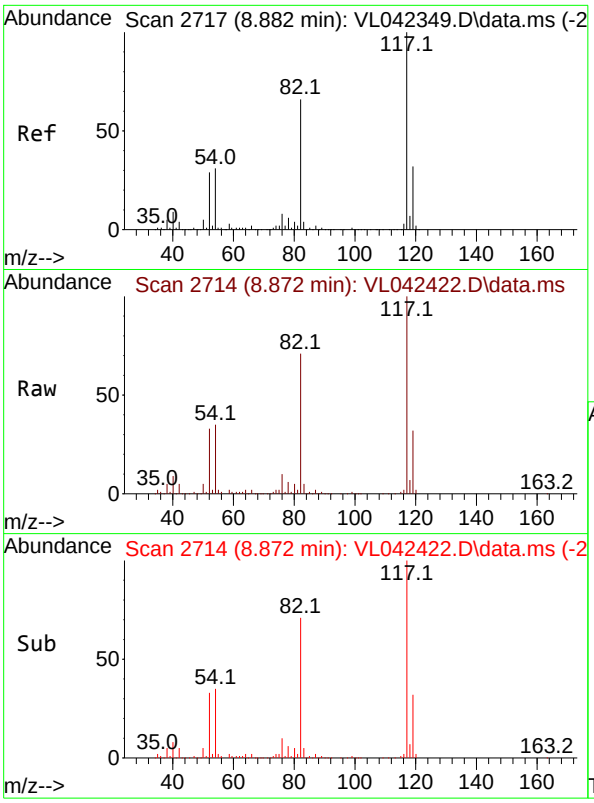



#53
Toluene
Concen: 6.746 ppbv
RT: 6.923 min Scan# 2112
Delta R.T. -0.010 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion: 91 Resp: 350451

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 59.5 | 48.2 | 72.4 |

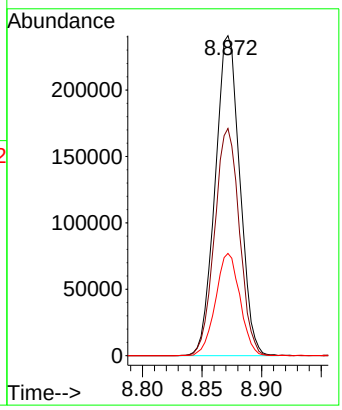





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2
Delta R.T. -0.010 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion:117 Resp: 34637

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 71.5 | 57.8 | 86.6 |
| 119 | 31.7 | 25.2 | 37.8 |

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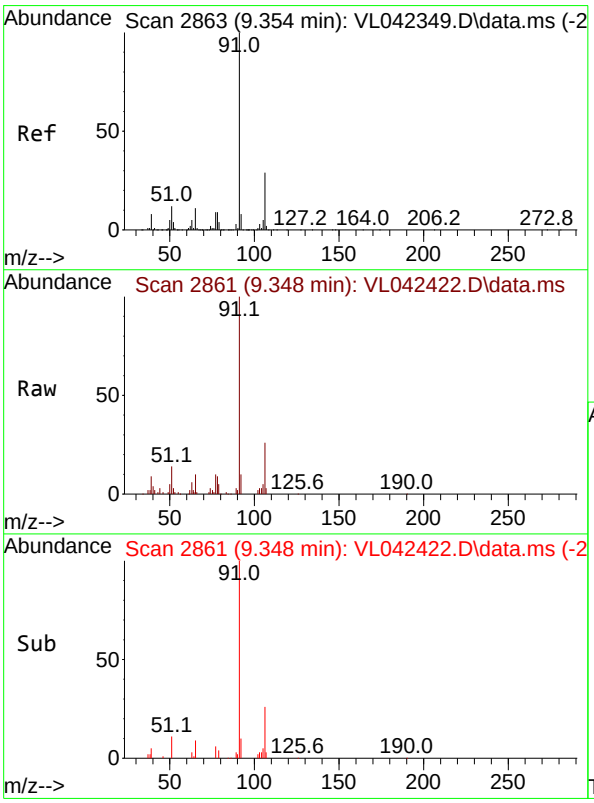
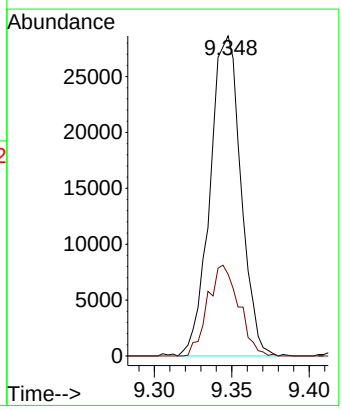
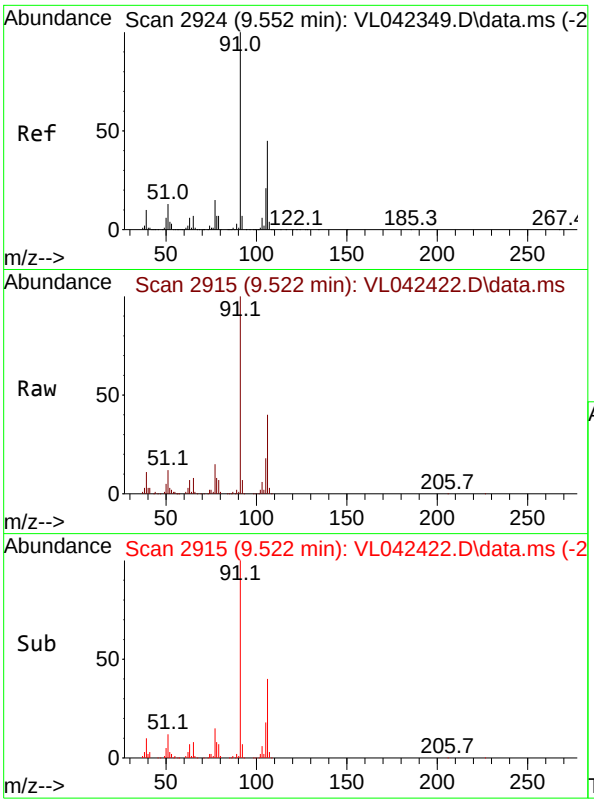



#58
Ethyl Benzene
Concen: 0.579 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. -0.007 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion: 91 Resp: 39720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 25.5 | 23.0 | 34.4 |

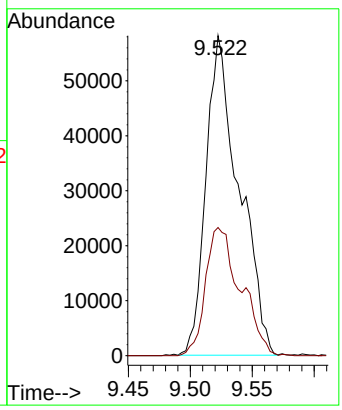





#59
m/p-Xylene
Concen: 1.955 ppbv
RT: 9.522 min Scan# 2
Delta R.T. -0.029 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion: 91 Resp: 10808

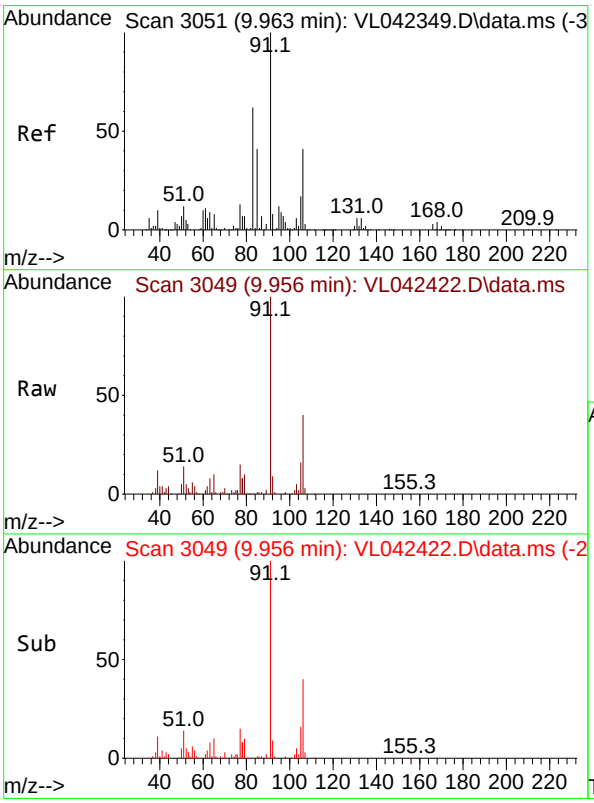
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 42.5 | 35.4 | 53.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-5-3242025

**Manual Integrations**
**APPROVED**

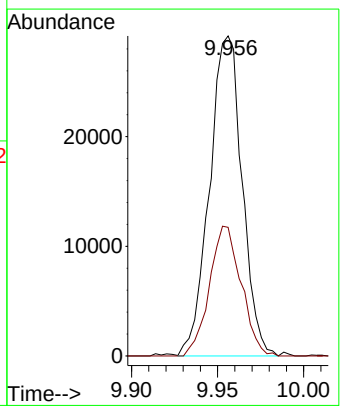
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

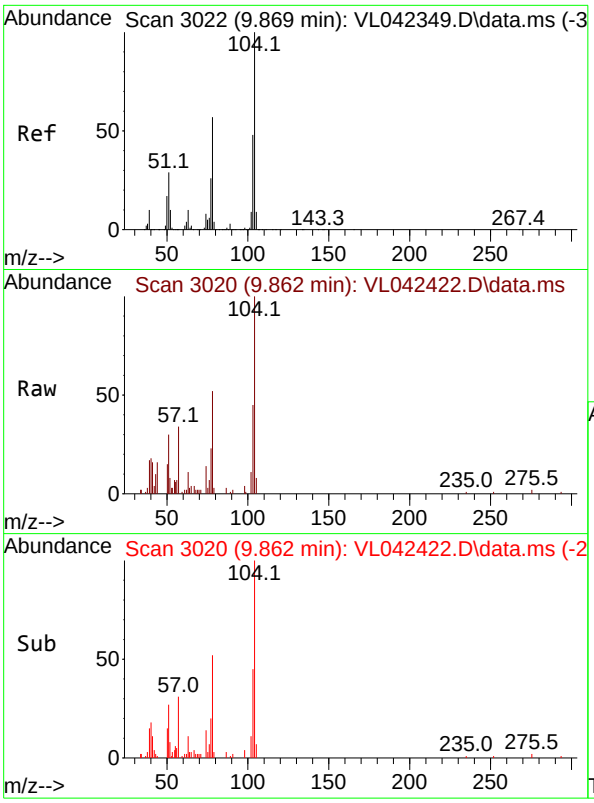



#60
o-Xylene
Concen: 0.691 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. -0.007 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion: 91 Resp: 38480

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 39.4 | 21.1 | 63.4 |

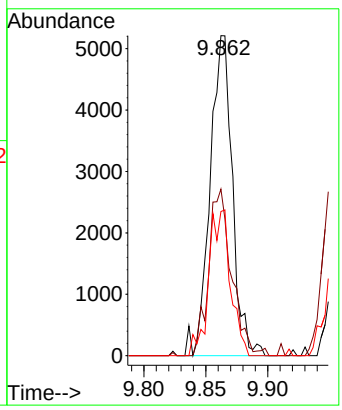





#61
Styrene
Concen: 0.246 ppbv m
RT: 9.862 min Scan# 3
Delta R.T. -0.007 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion:104 Resp: 653

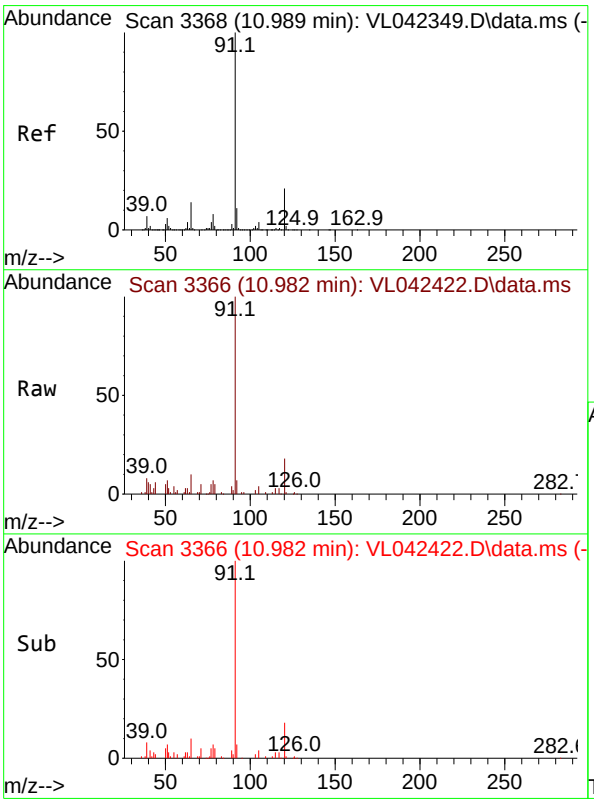
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 54.0 | 44.6 | 66.8 |
| 103 | 44.5 | 37.4 | 56.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-5-3242025

**Manual Integrations**
**APPROVED**

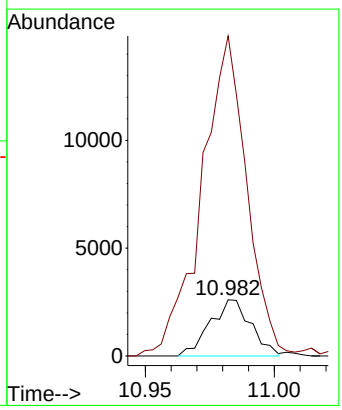
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

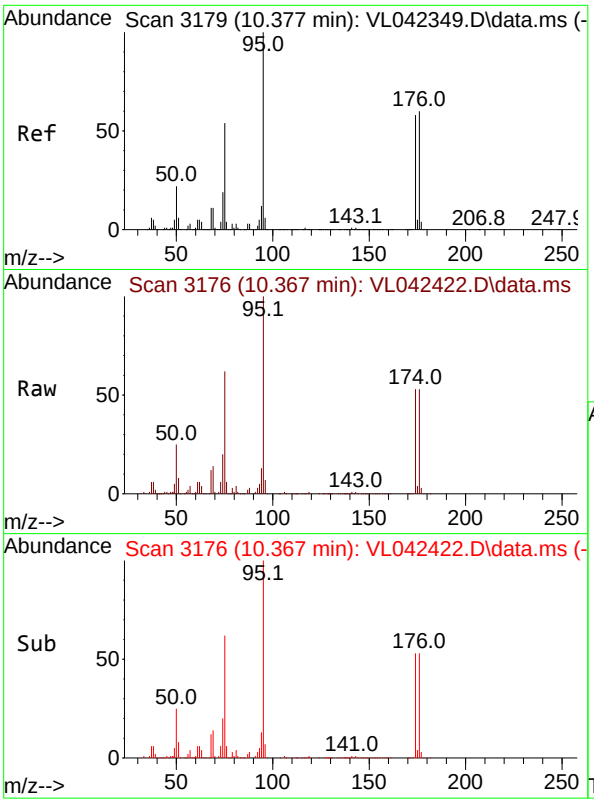



#64
n-propylbenzene
Concen: 0.139 ppbv
RT: 10.982 min Scan# 3366
Delta R.T. -0.007 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion:120 Resp: 2864

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 636.1 | 392.4 | 588.6# |

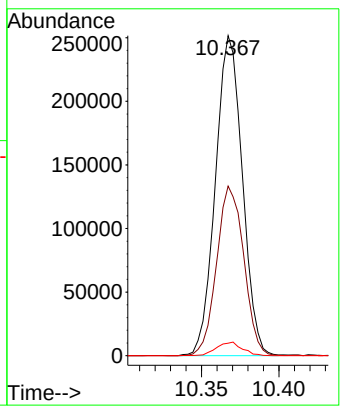





#68
1-Bromo-4-Fluorobenzene
Concen: 10.699 ppbv
RT: 10.367 min Scan# 3
Delta R.T. -0.010 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion: 95 Resp: 30453

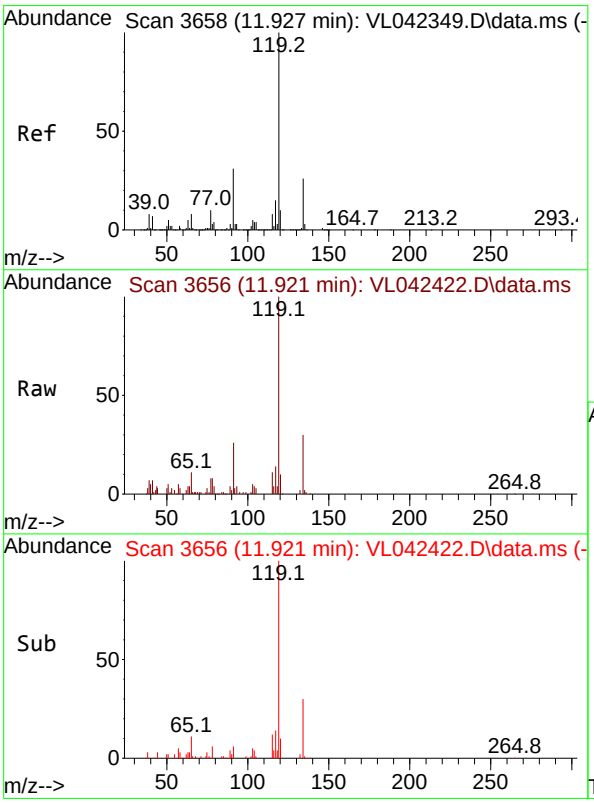
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 53.5 | 48.5 | 72.7 |
| 175 | 4.1 | 3.7 | 5.5 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-5-3242025

**Manual Integrations**
**APPROVED**

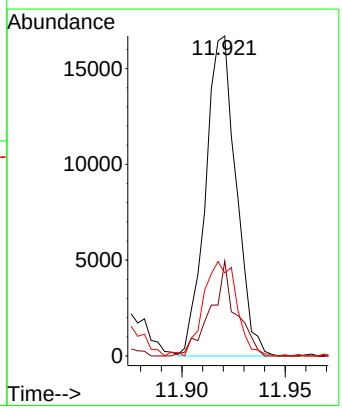
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

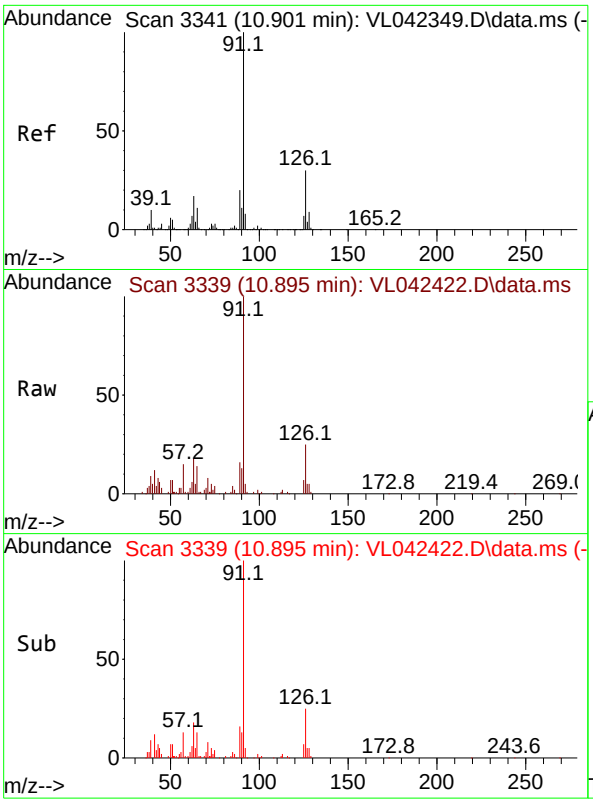



#69
p-Isopropyltoluene
Concen: 0.189 ppbv
RT: 11.921 min Scan# 3656
Delta R.T. -0.007 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion:119 Resp: 17184

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 24.4 | 20.0 | 30.0 |
| 91 | 32.0 | 24.4 | 36.6 |

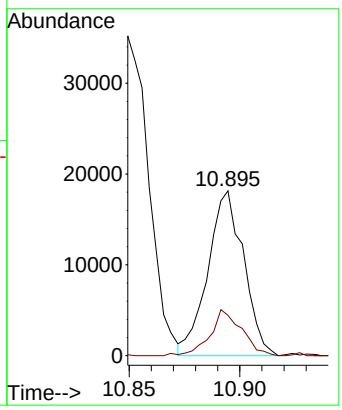





#71
2-Chlorotoluene
Concen: 0.319 ppbv
RT: 10.895 min Scan# 3
Delta R.T. -0.007 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion: 91 Resp: 2042

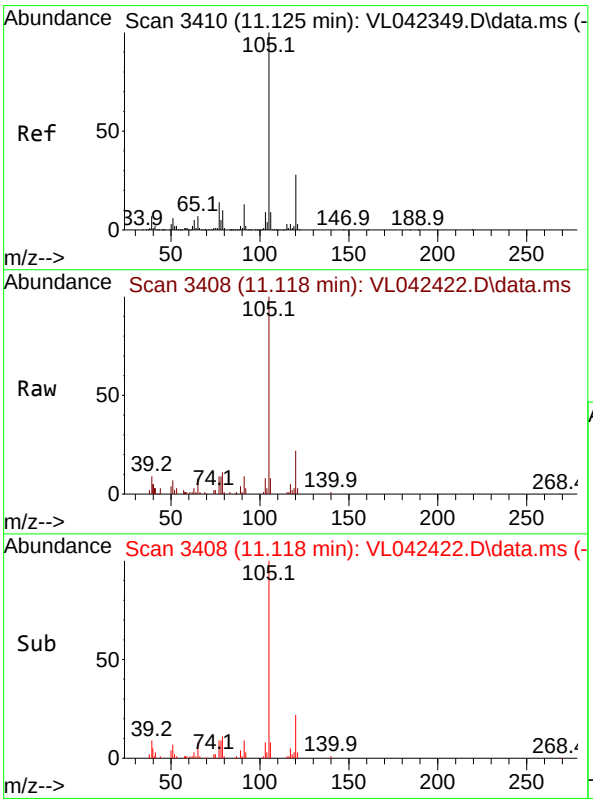
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 25.0 | 11.4 | 45.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-5-3242025

**Manual Integrations**
**APPROVED**

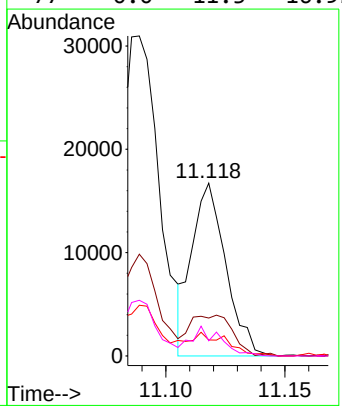
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

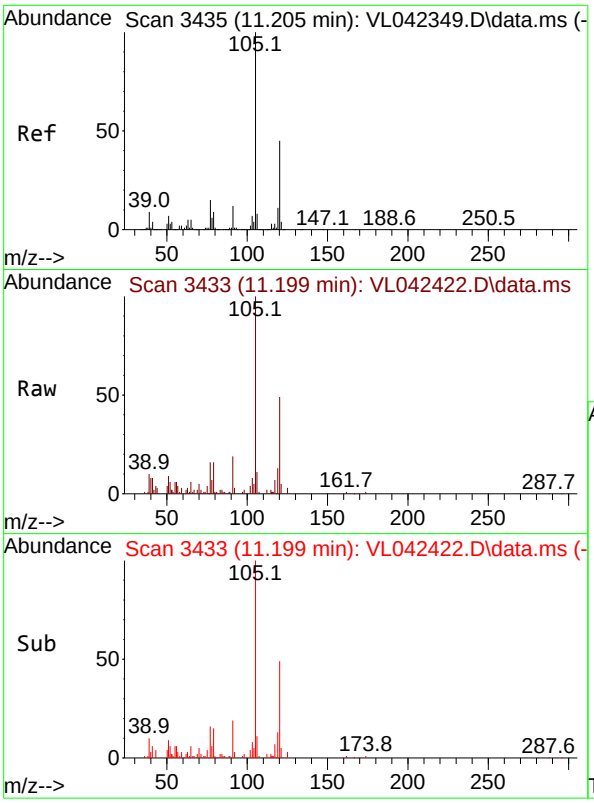



#72
4-Ethyltoluene
Concen: 0.244 ppbv
RT: 11.118 min Scan# 3408
Delta R.T. -0.007 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion:105 Resp: 16614

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 0.0 | 23.2 | 34.8# |
| 91 | 0.0 | 10.4 | 15.6# |
| 77 | 0.0 | 11.3 | 16.9# |

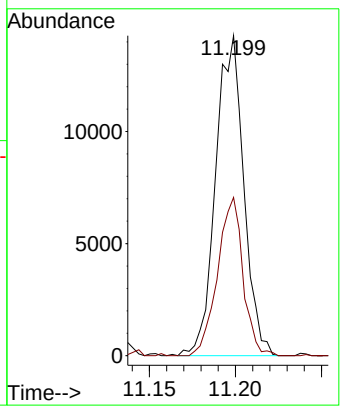





#73
1,3,5-Trimethylbenzene
Concen: 0.269 ppbv
RT: 11.199 min Scan# 34
Delta R.T. -0.007 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion:105 Resp: 1618

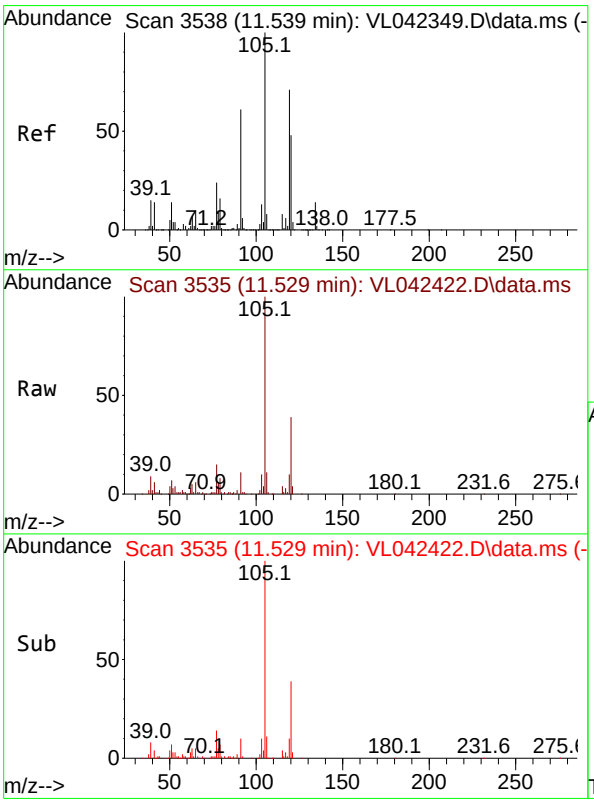
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 49.5 | 35.6 | 53.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-5-3242025

**Manual Integrations**
**APPROVED**

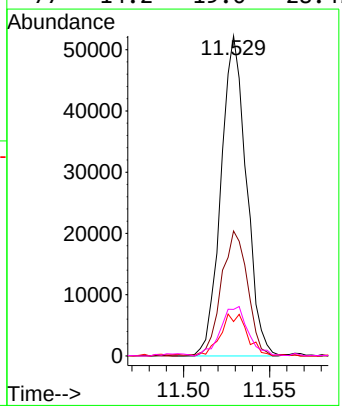
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025




#74
1,2,4-Trimethylbenzene
Concen: 0.764 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.010 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion:105 Resp: 53644

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 39.0 | 38.1 | 57.1 |
| 91 | 10.4 | 48.8 | 73.2# |
| 77 | 14.2 | 19.0 | 28.4# |



LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042422.D
Acq On : 28 Apr 2025 12:51
Operator : SY/MD
Sample : Q1665-16
Misc : 400mL/MSVOA_L
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-5-3242025

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

Signal : TIC: VL042422.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.428 | 409 | 414 | 420 | rBV | 4460760 | 5032148 | 100.00% | 28.161% |
| 2 | 1.486 | 426 | 432 | 434 | rBV3 | 137920 | 85842 | 1.71% | 0.480% |
| 3 | 1.554 | 449 | 453 | 458 | rBV2 | 289169 | 157190 | 3.12% | 0.880% |
| 4 | 1.618 | 469 | 473 | 476 | rVB | 127032 | 67891 | 1.35% | 0.380% |
| 5 | 1.719 | 499 | 504 | 510 | rBV | 2334806 | 1489559 | 29.60% | 8.336% |
| 6 | 1.832 | 534 | 539 | 547 | rBV | 626145 | 500494 | 9.95% | 2.801% |
| 7 | 1.881 | 547 | 554 | 560 | rBV | 938602 | 634087 | 12.60% | 3.548% |
| 8 | 1.958 | 574 | 578 | 584 | rVB | 92099 | 62902 | 1.25% | 0.352% |
| 9 | 2.055 | 599 | 608 | 611 | rBV4 | 60902 | 65138 | 1.29% | 0.365% |
| 10 | 2.466 | 730 | 735 | 742 | rVB2 | 126705 | 130928 | 2.60% | 0.733% |
| 11 | 2.619 | 774 | 782 | 789 | rVB | 84592 | 90164 | 1.79% | 0.505% |
| 12 | 2.780 | 824 | 832 | 838 | rBV2 | 550256 | 561308 | 11.15% | 3.141% |
| 13 | 2.819 | 838 | 844 | 858 | rVB | 308935 | 375303 | 7.46% | 2.100% |
| 14 | 3.221 | 956 | 968 | 977 | rVB3 | 80710 | 113229 | 2.25% | 0.634% |
| 15 | 3.648 | 1084 | 1100 | 1104 | rBV4 | 52800 | 88391 | 1.76% | 0.495% |
| 16 | 3.677 | 1104 | 1109 | 1123 | rVB3 | 126270 | 194062 | 3.86% | 1.086% |
| 17 | 3.845 | 1148 | 1161 | 1170 | rBV4 | 36639 | 64167 | 1.28% | 0.359% |
| 18 | 3.949 | 1180 | 1193 | 1207 | rBV | 706631 | 1114552 | 22.15% | 6.237% |
| 19 | 4.039 | 1210 | 1221 | 1229 | rBV2 | 52153 | 90733 | 1.80% | 0.508% |
| 20 | 4.253 | 1274 | 1287 | 1301 | rBV5 | 82085 | 177342 | 3.52% | 0.992% |
| 21 | 4.632 | 1390 | 1404 | 1416 | rVB2 | 91753 | 203730 | 4.05% | 1.140% |
| 22 | 4.968 | 1493 | 1508 | 1519 | rVB4 | 43794 | 90355 | 1.80% | 0.506% |
| 23 | 5.648 | 1699 | 1718 | 1731 | rBV10 | 29310 | 79946 | 1.59% | 0.447% |
| 24 | 6.813 | 2064 | 2078 | 2090 | rBV5 | 24013 | 58160 | 1.16% | 0.325% |
| 25 | 6.920 | 2095 | 2111 | 2128 | rBV2 | 483031 | 994319 | 19.76% | 5.564% |
| 26 | 7.590 | 2306 | 2318 | 2324 | rBV8 | 25713 | 55922 | 1.11% | 0.313% |
| 27 | 7.674 | 2333 | 2344 | 2362 | rVB4 | 157976 | 277952 | 5.52% | 1.555% |
| 28 | 8.289 | 2528 | 2534 | 2552 | rVB9 | 45111 | 91441 | 1.82% | 0.512% |
| 29 | 8.872 | 2697 | 2714 | 2726 | rBV | 895588 | 1326674 | 26.36% | 7.424% |
| 30 | 9.348 | 2851 | 2861 | 2873 | rBV2 | 72192 | 106349 | 2.11% | 0.595% |
| 31 | 9.522 | 2906 | 2915 | 2932 | rVB2 | 165371 | 331234 | 6.58% | 1.854% |
| 32 | 9.956 | 3034 | 3049 | 3060 | rBV5 | 94073 | 168970 | 3.36% | 0.946% |
| 33 | 10.367 | 3160 | 3176 | 3188 | rBV | 1181166 | 1469842 | 29.21% | 8.226% |
| 34 | 10.849 | 3316 | 3325 | 3333 | rBV2 | 336986 | 407663 | 8.10% | 2.281% |
| 35 | 10.891 | 3333 | 3338 | 3347 | rVB3 | 67337 | 78151 | 1.55% | 0.437% |
| 36 | 10.982 | 3356 | 3366 | 3379 | rBV2 | 32756 | 53493 | 1.06% | 0.299% |

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042422.D
Acq On : 28 Apr 2025 12:51
Operator : SY/MD
Sample : Q1665-16
Misc : 400mL/MSVOA_L
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-5-3242025

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 37 | 11.089 | 3391 | 3399 | 3404 | rBV | 93773 | 106842 | 2.12% | 0.598% |
| 38 | 11.196 | 3422 | 3432 | 3442 | rBV2 | 54977 | 64993 | 1.29% | 0.364% |
| 39 | 11.419 | 3490 | 3501 | 3510 | rVB6 | 80544 | 112242 | 2.23% | 0.628% |
| 40 | 11.529 | 3528 | 3535 | 3549 | rVB2 | 154227 | 184290 | 3.66% | 1.031% |
| 41 | 11.746 | 3594 | 3602 | 3606 | rBV3 | 100868 | 113241 | 2.25% | 0.634% |
| 42 | 11.769 | 3606 | 3609 | 3617 | rVB2 | 76201 | 79599 | 1.58% | 0.445% |
| 43 | 11.921 | 3649 | 3656 | 3662 | rBV3 | 50931 | 60103 | 1.19% | 0.336% |
| 44 | 12.034 | 3683 | 3691 | 3698 | rVB8 | 63352 | 71664 | 1.42% | 0.401% |
| 45 | 12.820 | 3928 | 3934 | 3940 | rBV | 187136 | 186715 | 3.71% | 1.045% |

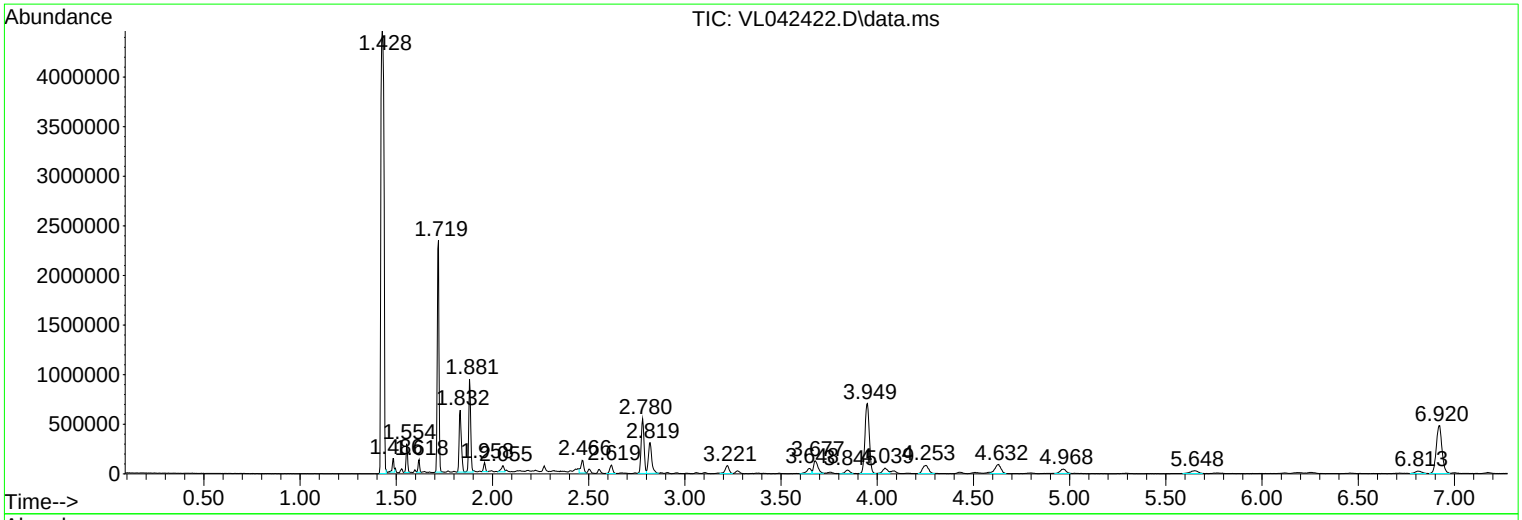
Sum of corrected areas: 17869320

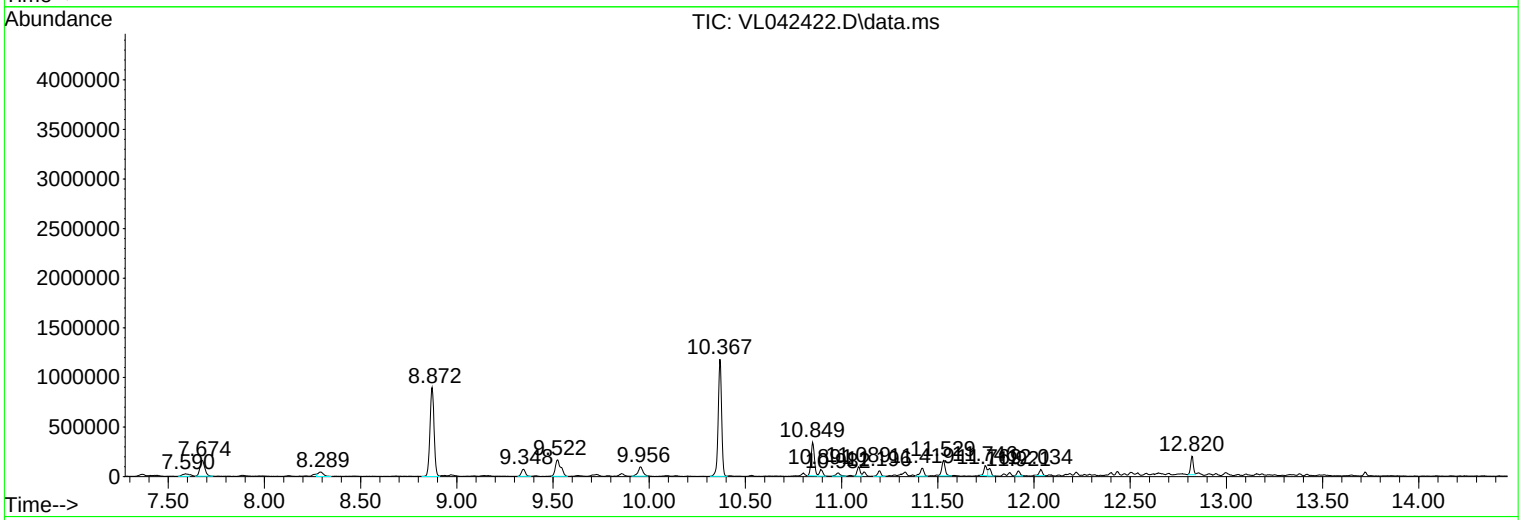
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042422.D
Acq On : 28 Apr 2025 12:51
Operator : SY/MD
Sample : Q1665-16
Misc : 400mL/MSVOA_L
ALS Vial : 9 Sample Multiplier: 1

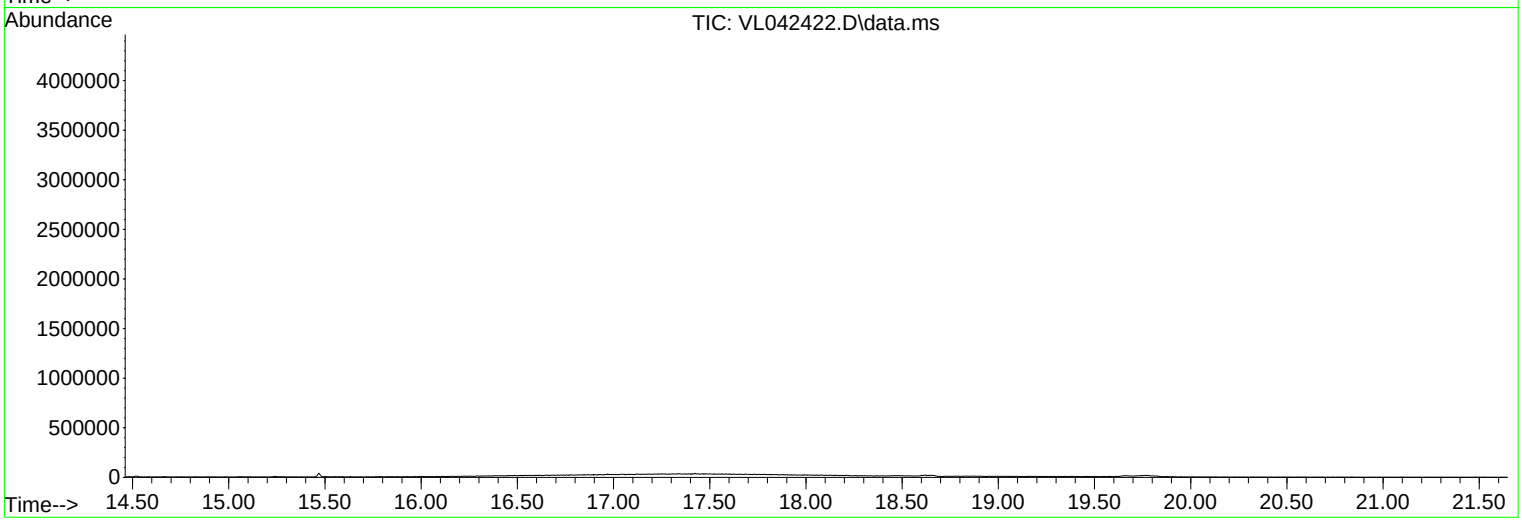
**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-5-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042422.D
Acq On : 28 Apr 2025 12:51
Operator : SY/MD
Sample : Q1665-16
Misc : 400mL/MSVOA_L
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-5-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

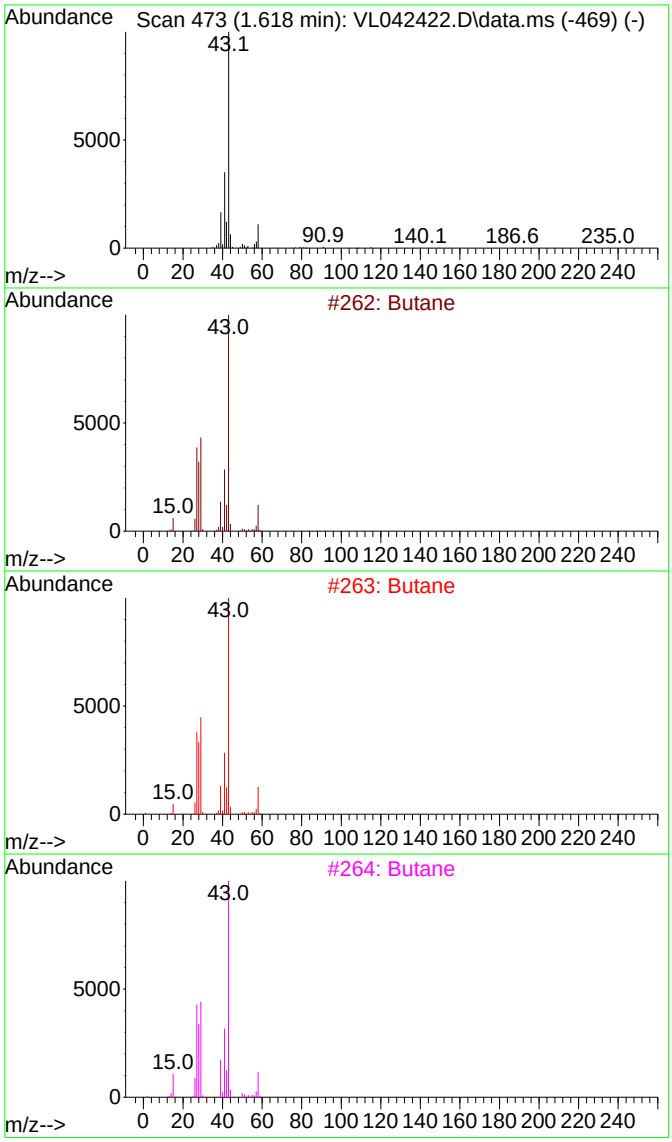
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

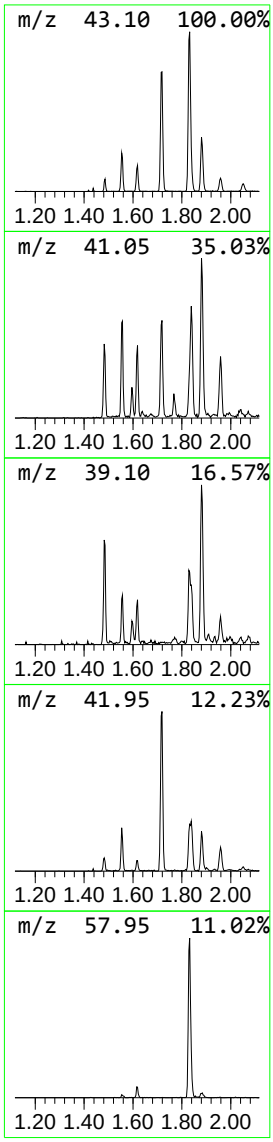
**********

Peak Number 1 Butane Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.618 | 1.21 ppbv | 67891 | Bromochloromethane | 2.780 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane | 58 | C4H10 | 000106-97-8 | 64 |
| 2 | Butane | 58 | C4H10 | 000106-97-8 | 64 |
| 3 | Butane | 58 | C4H10 | 000106-97-8 | 50 |
| 4 | Formic acid, chloro-, (3,4,4-tri... | 194 | C7H11ClO4 | 107323-92-2 | 39 |
| 5 | Methyl glyoxal | 72 | C3H4O2 | 000078-98-8 | 9 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042422.D
Acq On : 28 Apr 2025 12:51
Operator : SY/MD
Sample : Q1665-16
Misc : 400mL/MSVOA_L
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-5-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

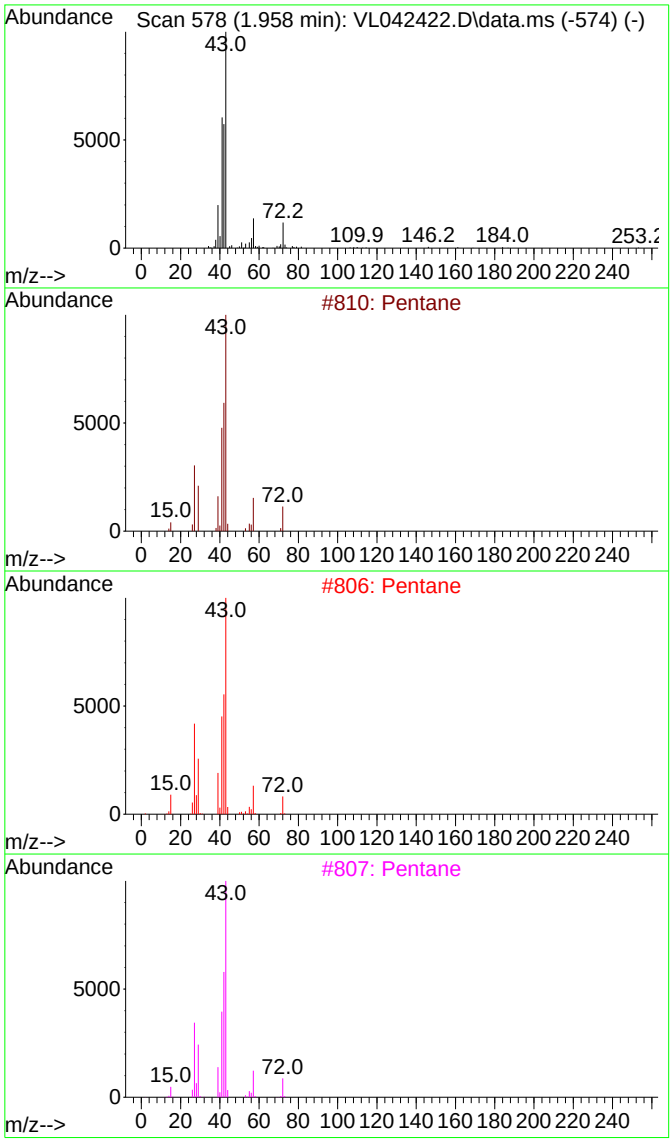
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

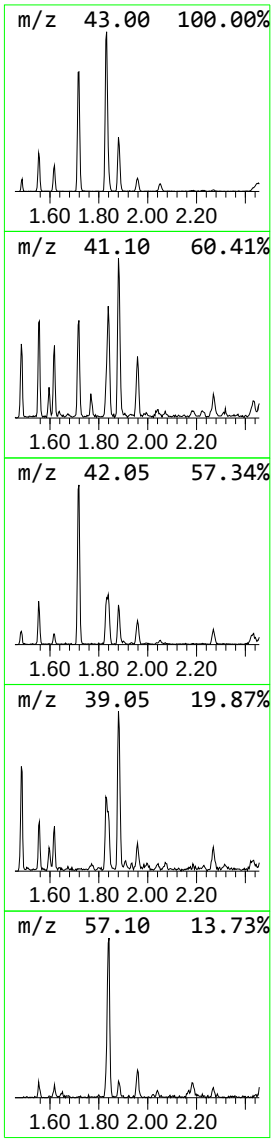
**********

Peak Number 2 Pentane Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.958 | 1.12 ppbv | 62902 | Bromochloromethane | 2.780 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane | 72 | C5H12 | 000109-66-0 | 80 |
| 2 | Pentane | 72 | C5H12 | 000109-66-0 | 80 |
| 3 | Pentane | 72 | C5H12 | 000109-66-0 | 72 |
| 4 | Pentane | 72 | C5H12 | 000109-66-0 | 58 |
| 5 | Pentane | 72 | C5H12 | 000109-66-0 | 42 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042422.D
Acq On : 28 Apr 2025 12:51
Operator : SY/MD
Sample : Q1665-16
Misc : 400mL/MSVOA_L
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-5-3242025

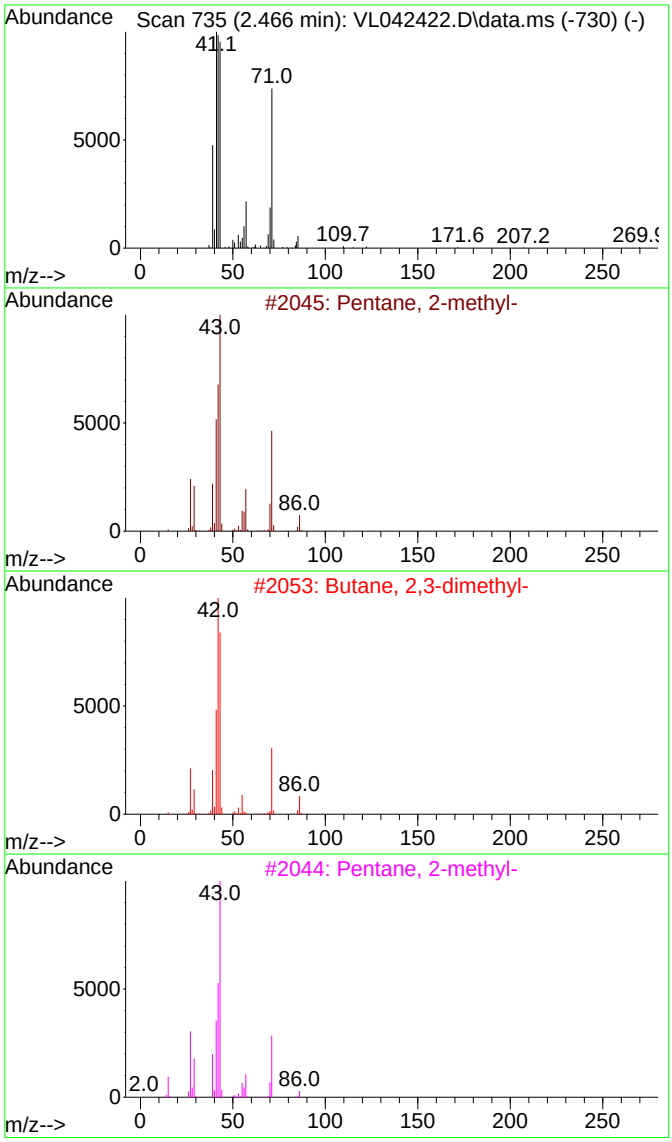
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

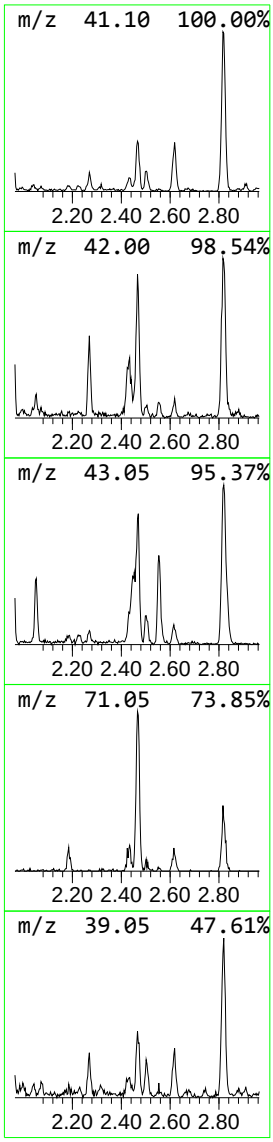
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 3 Pentane, 2-methyl- Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.466 | 2.33 ppbv | 130928 | Bromochloromethane | 2.780 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane, 2-methyl- | 86 | C6H14 | 000107-83-5 | 50 |
| 2 | Butane, 2,3-dimethyl- | 86 | C6H14 | 000079-29-8 | 45 |
| 3 | Pentane, 2-methyl- | 86 | C6H14 | 000107-83-5 | 42 |
| 4 | Pentane, 2-methyl- | 86 | C6H14 | 000107-83-5 | 42 |
| 5 | Sulfurous acid, isobutyl 2-penty... | 208 | C9H20O3S | 1000309-15-2 | 37 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042422.D
Acq On : 28 Apr 2025 12:51
Operator : SY/MD
Sample : Q1665-16
Misc : 400mL/MSVOA_L
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-5-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

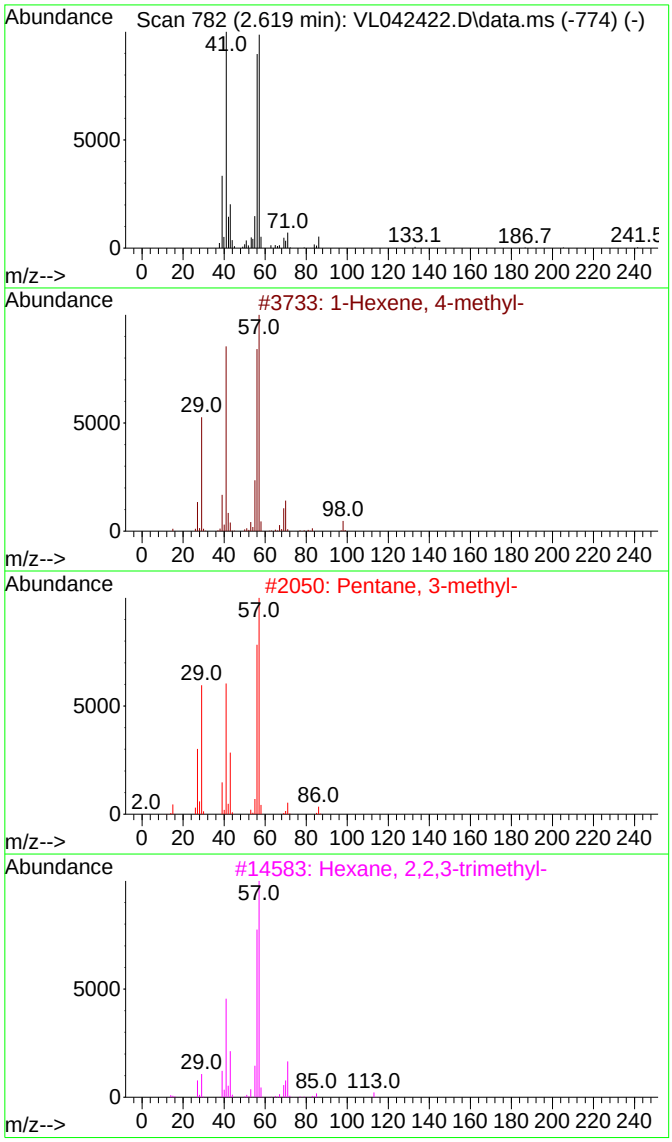
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

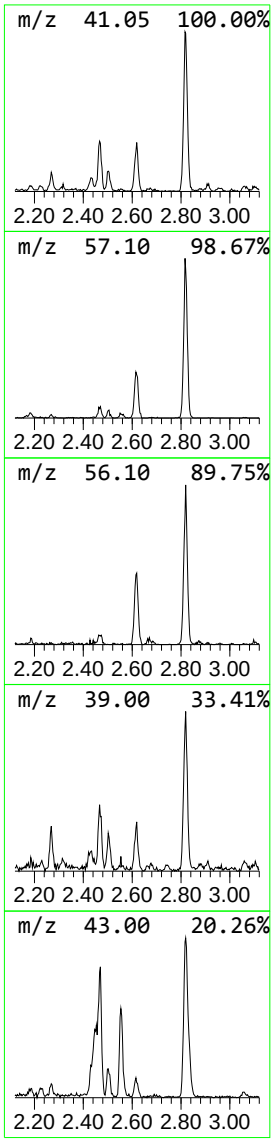
**********

Peak Number 4 1-Hexene, 4-methyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.619 | 1.61 ppbv | 90164 | Bromochloromethane | 2.780 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Hexene, 4-methyl- | 98 | C7H14 | 003769-23-1 | 78 |
| 2 | Pentane, 3-methyl- | 86 | C6H14 | 000096-14-0 | 64 |
| 3 | Hexane, 2,2,3-trimethyl- | 128 | C9H20 | 016747-25-4 | 64 |
| 4 | Pentane, 3-methyl- | 86 | C6H14 | 000096-14-0 | 64 |
| 5 | Pentane, 3-methyl- | 86 | C6H14 | 000096-14-0 | 64 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042422.D
Acq On : 28 Apr 2025 12:51
Operator : SY/MD
Sample : Q1665-16
Misc : 400mL/MSVOA_L
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-5-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

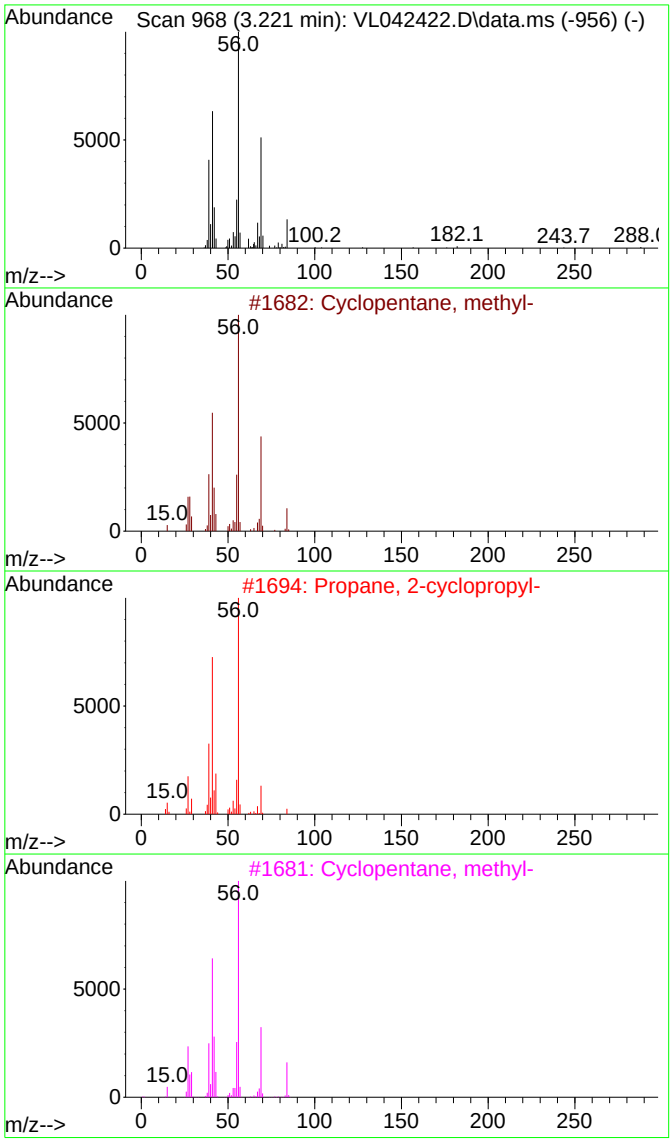
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

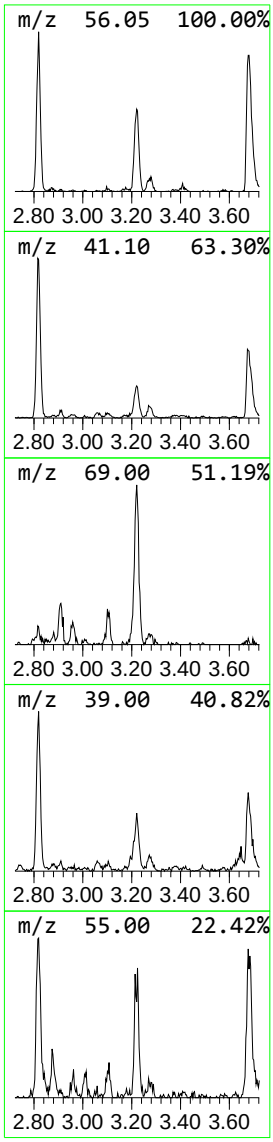
**********

Peak Number 5 Cyclopentane, methyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.221 | 2.02 ppbv | 113229 | Bromochloromethane | 2.780 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentane, methyl- | 84 | C6H12 | 000096-37-7 | 52 |
| 2 | Propane, 2-cyclopropyl- | 84 | C6H12 | 003638-35-5 | 49 |
| 3 | Cyclopentane, methyl- | 84 | C6H12 | 000096-37-7 | 49 |
| 4 | 1-Pentanol, 3-methyl- | 102 | C6H14O | 000589-35-5 | 47 |
| 5 | Cyclopentane, methyl- | 84 | C6H12 | 000096-37-7 | 47 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042422.D
Acq On : 28 Apr 2025 12:51
Operator : SY/MD
Sample : Q1665-16
Misc : 400mL/MSVOA_L
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-5-3242025

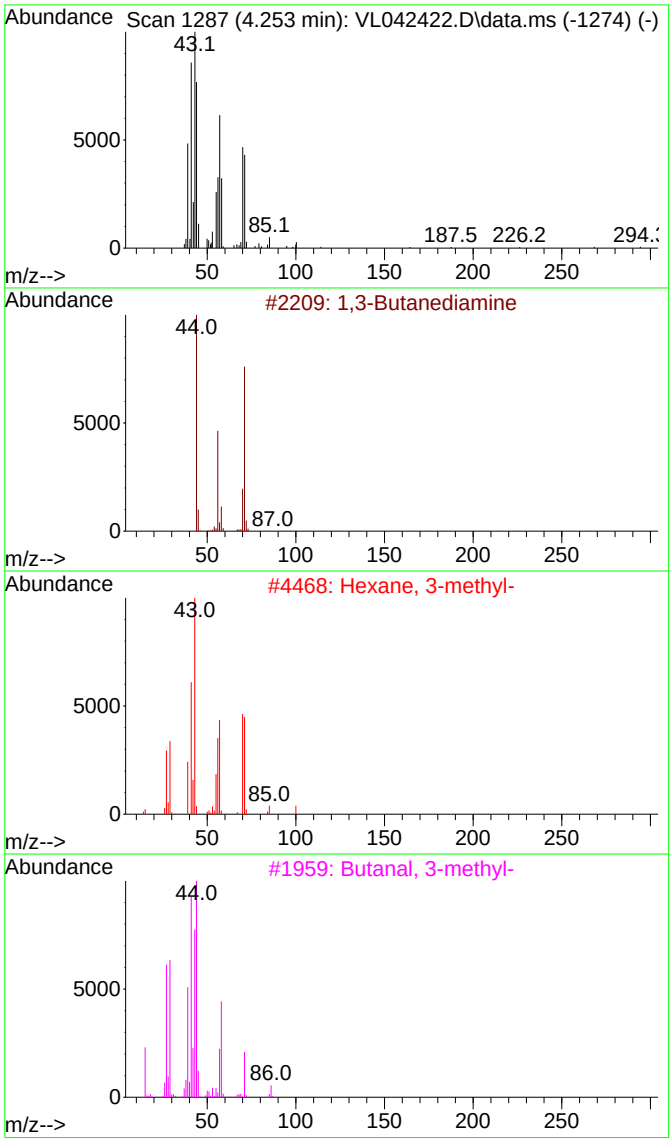
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

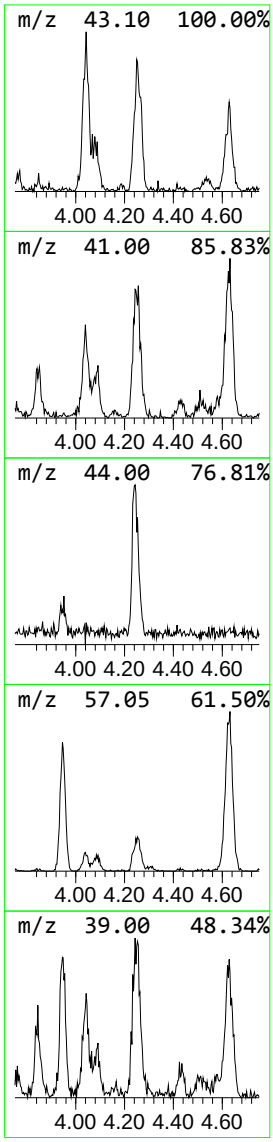
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 6 1,3-Butanediamine Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.253 | 1.59 ppbv | 177342 | 1,4-Difluorobenzene | 3.949 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,3-Butanediamine | 88 | C4H12N2 | 000590-88-5 | 53 |
| 2 | Hexane, 3-methyl- | 100 | C7H16 | 000589-34-4 | 45 |
| 3 | Butanal, 3-methyl- | 86 | C5H10O | 000590-86-3 | 40 |
| 4 | Hexane, 3-methyl- | 100 | C7H16 | 000589-34-4 | 38 |
| 5 | 1-Heptene, 4-methyl- | 112 | C8H16 | 013151-05-8 | 38 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042422.D
Acq On : 28 Apr 2025 12:51
Operator : SY/MD
Sample : Q1665-16
Misc : 400mL/MSVOA_L
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-5-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

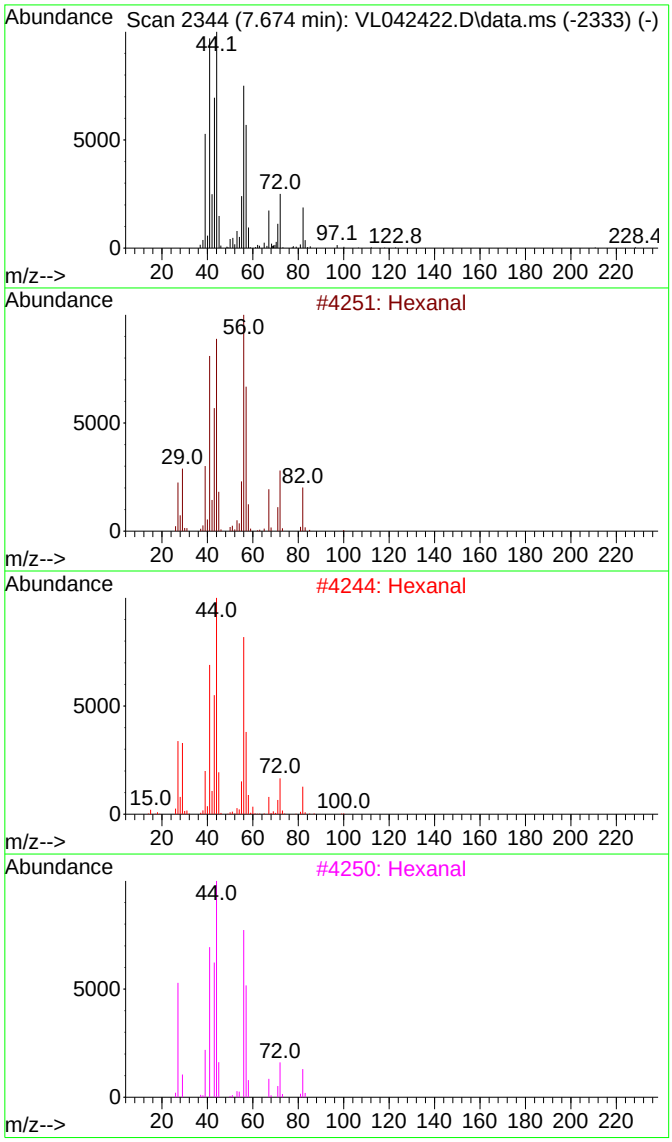
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

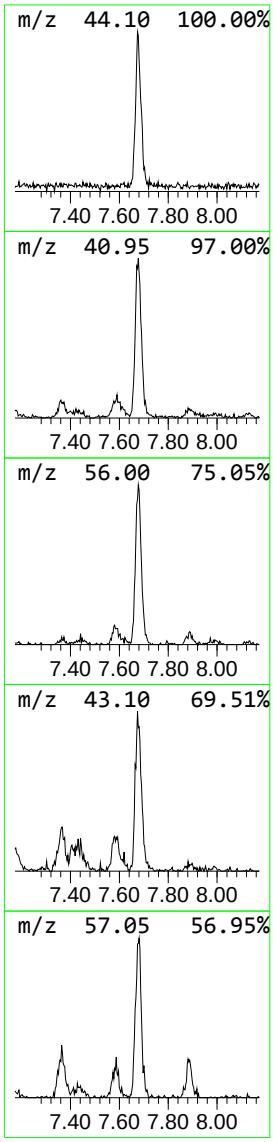
**********

Peak Number 7 Hexanal Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.674 | 2.10 ppbv | 277952 | Chlorobenzene-d5 | 8.872 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexanal | 100 | C6H12O | 000066-25-1 | 81 |
| 2 | Hexanal | 100 | C6H12O | 000066-25-1 | 53 |
| 3 | Hexanal | 100 | C6H12O | 000066-25-1 | 42 |
| 4 | Butanal, 3-methyl- | 86 | C5H10O | 000590-86-3 | 38 |
| 5 | 1,2,4-Trioxolane, 3,5-dipropyl- | 160 | C8H16O3 | 001696-03-3 | 35 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042422.D
Acq On : 28 Apr 2025 12:51
Operator : SY/MD
Sample : Q1665-16
Misc : 400mL/MSVOA_L
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-5-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

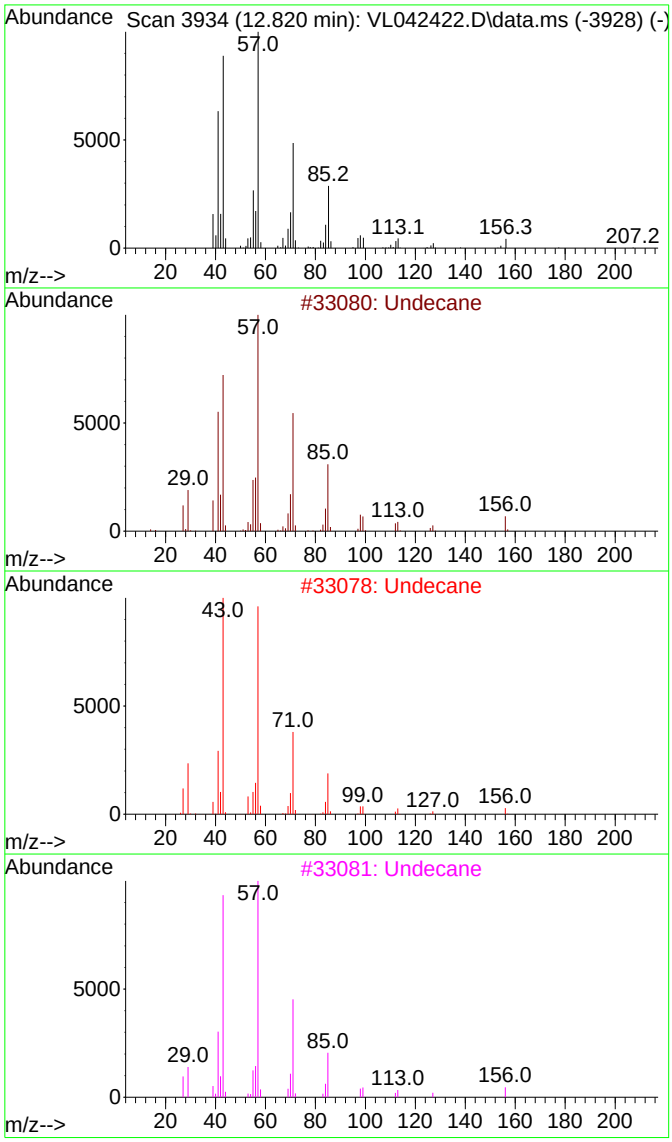
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

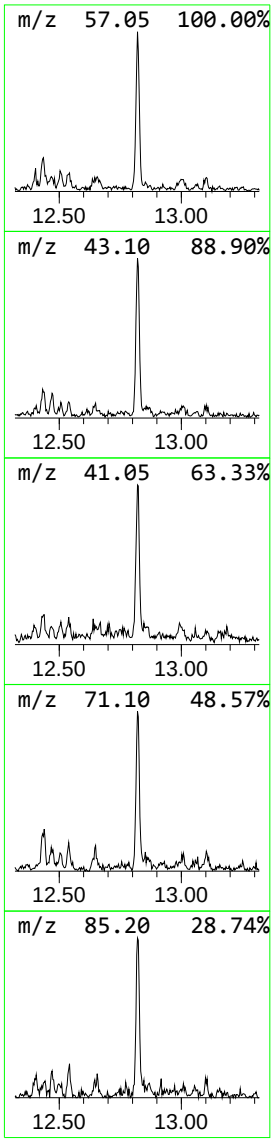
**********

Peak Number 8 Undecane Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.820 | 1.41 ppbv | 186715 | Chlorobenzene-d5 | 8.872 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Undecane | 156 | C11H24 | 001120-21-4 | 93 |
| 2 | Undecane | 156 | C11H24 | 001120-21-4 | 90 |
| 3 | Undecane | 156 | C11H24 | 001120-21-4 | 90 |
| 4 | Undecane | 156 | C11H24 | 001120-21-4 | 87 |
| 5 | Dodecane | 170 | C12H26 | 000112-40-3 | 80 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042422.D
Acq On : 28 Apr 2025 12:51
Operator : SY/MD
Sample : Q1665-16
Misc : 400mL/MSVOA_L
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-5-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Butane | 1.618 | 1.2 | ppbv | 67891 | 1 | 2.780 | 561308 | 10.0 |
| Pentane | 1.958 | 1.1 | ppbv | 62902 | 1 | 2.780 | 561308 | 10.0 |
| Pentane, 2-methyl- | 2.466 | 2.3 | ppbv | 130928 | 1 | 2.780 | 561308 | 10.0 |
| 1-Hexene, 4-met... | 2.619 | 1.6 | ppbv | 90164 | 1 | 2.780 | 561308 | 10.0 |
| Cyclopentane, m... | 3.221 | 2.0 | ppbv | 113229 | 1 | 2.780 | 561308 | 10.0 |
| 1,3-Butanediamine | 4.253 | 1.6 | ppbv | 177342 | 2 | 3.949 | 1114550 | 10.0 |
| Hexanal | 7.674 | 2.1 | ppbv | 277952 | 3 | 8.872 | 1326670 | 10.0 |
| Undecane | 12.820 | 1.4 | ppbv | 186715 | 3 | 8.872 | 1326670 | 10.0 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B10-3-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-18 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042321.D | 1 | | 04/11/25 15:36 | VL041125 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.44 | 2.18 | J | 1.04 | 2.47 | ug/m3 |
| 64-17-5 | Ethanol | 1400 | 2640 | EQ | 0.60 | 0.94 | ug/m3 |
| 74-87-3 | Chloromethane | 0.61 | 1.26 | | 0.21 | 1.03 | ug/m3 |
| 75-01-4 | Vinyl Chloride | 0.010 | 0.030 | U | 0.030 | 0.080 | ug/m3 |
| 74-83-9 | Bromomethane | 0.14 | 0.54 | U | 0.54 | 1.94 | ug/m3 |
| 75-00-3 | Chloroethane | 0.17 | 0.45 | U | 0.45 | 1.32 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | 0.13 | 0.38 | U | 0.38 | 1.47 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | 0.19 | 1.07 | J | 0.90 | 2.81 | ug/m3 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.16 | 1.23 | U | 1.23 | 3.83 | ug/m3 |
| 76-14-2 | Dichlorotetrafluoroethane | 0.090 | 0.63 | U | 0.63 | 3.49 | ug/m3 |
| 593-60-2 | Bromoethene | 0.12 | 0.52 | U | 0.52 | 2.19 | ug/m3 |
| 75-65-0 | tert-Butyl alcohol | 0.45 | 1.36 | J | 0.58 | 1.52 | ug/m3 |
| 142-82-5 | Heptane | 0.19 | 0.78 | J | 0.45 | 2.05 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | 86.2 | 212 | E | 0.17 | 1.23 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethene | 0.14 | 0.56 | U | 0.56 | 1.98 | ug/m3 |
| 67-64-1 | Acetone | 90.6 | 215 | E | 0.57 | 1.19 | ug/m3 |
| 75-15-0 | Carbon Disulfide | 0.16 | 0.50 | U | 0.50 | 1.56 | ug/m3 |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.12 | 0.43 | U | 0.43 | 1.80 | ug/m3 |
| 75-09-2 | Methylene Chloride | 0.90 | 3.13 | | 0.66 | 1.74 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.19 | 0.75 | U | 0.75 | 1.98 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | 0.13 | 0.53 | U | 0.53 | 2.02 | ug/m3 |
| 110-82-7 | Cyclohexane | 0.22 | 0.76 | U | 0.76 | 1.72 | ug/m3 |
| 78-93-3 | 2-Butanone | 22.7 | 67.0 | E | 0.35 | 1.47 | ug/m3 |
| 56-23-5 | Carbon Tetrachloride | 0.080 | 0.50 | | 0.060 | 0.19 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.090 | 0.36 | U | 0.36 | 1.98 | ug/m3 |
| 67-66-3 | Chloroform | 1.50 | 7.33 | | 0.39 | 2.44 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.010 | 0.050 | U | 0.050 | 0.16 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | 0.10 | 0.47 | U | 0.47 | 2.34 | ug/m3 |
| 71-43-2 | Benzene | 0.68 | 2.17 | | 0.29 | 1.60 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | 0.090 | 0.36 | U | 0.36 | 2.02 | ug/m3 |
| 79-01-6 | Trichloroethene | 0.020 | 0.11 | U | 0.11 | 0.16 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | 0.11 | 0.51 | U | 0.51 | 2.31 | ug/m3 |
| 75-27-4 | Bromodichloromethane | 0.080 | 0.54 | U | 0.54 | 3.35 | ug/m3 |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.45 | 1.84 | J | 0.37 | 2.05 | ug/m3 |
| 108-88-3 | Toluene | 0.54 | 2.03 | | 0.41 | 1.88 | ug/m3 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B10-3-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-18 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042321.D | 1 | | 04/11/25 15:36 | VL041125 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.060 | 0.27 | U | 0.27 | 2.27 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.060 | 0.27 | U | 0.27 | 2.27 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.070 | 0.38 | U | 0.38 | 2.73 | ug/m3 |
| 124-48-1 | Dibromochloromethane | 0.070 | 0.60 | U | 0.60 | 4.26 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane | 0.070 | 0.54 | U | 0.54 | 0.77 | ug/m3 |
| 127-18-4 | Tetrachloroethene | 0.040 | 0.27 | | 0.14 | 0.20 | ug/m3 |
| 108-90-7 | Chlorobenzene | 0.080 | 0.37 | U | 0.37 | 2.30 | ug/m3 |
| 100-41-4 | Ethyl Benzene | 0.12 | 0.52 | U | 0.52 | 2.17 | ug/m3 |
| 179601-23-1 | m/p-Xylene | 0.21 | 0.91 | U | 0.91 | 4.34 | ug/m3 |
| 95-47-6 | o-Xylene | 0.12 | 0.52 | U | 0.52 | 2.17 | ug/m3 |
| 100-42-5 | Styrene | 0.11 | 0.47 | U | 0.47 | 2.13 | ug/m3 |
| 75-25-2 | Bromoform | 0.060 | 0.62 | U | 0.62 | 5.17 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.010 | 0.070 | UQ | 0.070 | 0.21 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | 0.11 | 0.57 | U | 0.57 | 2.59 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.11 | 0.54 | U | 0.54 | 2.46 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.16 | 0.79 | J | 0.39 | 2.46 | ug/m3 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.080 | 0.48 | U | 0.48 | 3.01 | ug/m3 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.050 | 0.30 | U | 0.30 | 3.01 | ug/m3 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.080 | 0.48 | UQ | 0.48 | 3.01 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.090 | 0.67 | U | 0.67 | 3.71 | ug/m3 |
| 87-68-3 | Hexachloro-1,3-Butadiene | 0.090 | 0.96 | U | 0.96 | 5.33 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | 0.13 | 0.29 | U | 0.29 | 1.11 | ug/m3 |
| 91-20-3 | Naphthalene | 0.080 | 0.42 | U | 0.42 | 0.52 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | 0.12 | 0.59 | U | 0.59 | 2.46 | ug/m3 |
| 110-54-3 | Hexane | 2.70 | 9.52 | | 0.39 | 1.76 | ug/m3 |
| 107-05-1 | Allyl Chloride | 0.15 | 0.47 | U | 0.47 | 1.57 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | 0.21 | 0.76 | U | 0.76 | 1.80 | ug/m3 |
| 80-62-6 | Methyl Methacrylate | 0.090 | 0.37 | U | 0.37 | 2.05 | ug/m3 |
| **SURROGATES** | | | | | | | |
| 460-00-4 | 1-Bromo-4-Fluorobenzene | 9.40 | | | 70 (65) - 130 (135) | 94% | SPK: 10 |
| **INTERNAL STANDARDS** | | | | | | | |
| 74-97-5 | Bromochloromethane | 184000 | | 2.787 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 454000 | | 3.959 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 391000 | | 8.882 | | | |
| **TENTITIVE IDENTIFIED COMPOUNDS** | | | | | | | |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B10-3-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-18 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042321.D | 1 | | 04/11/25 15:36 | VL041125 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 75-45-6 | Chlorodifluoromethane | 0.18 | | J | | 1.47 | ppbv |
| 115-07-1 | Propene | 5.00 | | J | | 1.49 | ppbv |
| 000106-97-8 | Butane | 1.30 | | J | | 1.62 | ppbv |
| 007452-79-1 | Butanoic acid, 2-methyl-, ethyl es | 1.40 | | J | | 9.15 | ppbv |
| 018172-67-3 | Bicyclo[3.1.1]heptane, 6,6-dimethy | 1.10 | | J | | 11.4 | ppbv |
| 99-87-6 | p-Isopropyltoluene | 0.11 | | J | | 11.9 | ppbv |
| 005989-27-5 | D-Limonene | 18.0 | | J | | 12.0 | ppbv |

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042321.D
Acq On : 11 Apr 2025 15:36
Operator : SY/MD
Sample : Q1665-18
Misc : 400mL/MSVOA_L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 11 23:01:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 2.787 | 49 | 184452 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.959 | 114 | 454008 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.882 | 117 | 391031 | 10.000 | ppbv | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95 | 301415 | 9.386 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 93.900% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.499 | 85 | 11984 | 0.440 | ppbv | | 90 |
| 3) Chlorodifluoromethane | 1.473 | 51 | 5086m | 0.183 | ppbv | | |
| 4) Chloromethane | 1.531 | 50 | 6779 | 0.609 | ppbv | | 99 |
| 9) Propene | 1.486 | 41 | 63490m | 4.979 | ppbv | | |
| 10) Heptane | 4.975 | 43 | 6471m | 0.191 | ppbv | | |
| 11) Trichlorofluoromethane | 1.877 | 101 | 5150 | 0.194 | ppbv | | 94 |
| 13) Ethanol | 1.722 | 45 | 1721714 | 1428.217 | ppbv | | 97 |
| 15) Acetone | 1.832 | 43 | 2336283 | 90.565 | ppbv | # | 69 |
| 17) tert-Butyl alcohol | 2.043 | 59 | 14483m | 0.451 | ppbv | | |
| 19) Isopropyl Alcohol | 1.887 | 45 | 1254135 | 86.165 | ppbv | # | 41 |
| 20) Methylene Chloride | 2.062 | 84 | 8636 | 0.899 | ppbv | # | 76 |
| 26) Hexane | 2.826 | 57 | 70462 | 2.725 | ppbv | | 92 |
| 29) Chloroform | 2.848 | 83 | 55947 | 1.478 | ppbv | | 100 |
| 34) 2-Butanone | 2.557 | 43 | 746435 | 22.673 | ppbv | | 99 |
| 35) Carbon Tetrachloride | 3.764 | 117 | 2892m | 0.082 | ppbv | | |
| 36) Benzene | 3.654 | 78 | 30723 | 0.683 | ppbv | | 95 |
| 50) 4-Methyl-2-Pentanone | 5.768 | 43 | 23404m | 0.449 | ppbv | | |
| 52) Tetrachloroethene | 8.225 | 164 | 653m | 0.037 | ppbv | | |
| 53) Toluene | 6.933 | 91 | 28699 | 0.538 | ppbv | | 98 |
| 59) m/p-Xylene | 9.529 | 91 | 11090m | 0.200 | ppbv | | |
| 60) o-Xylene | 9.959 | 91 | 6064m | 0.109 | ppbv | | |
| 69) p-Isopropyltoluene | 11.927 | 119 | 10463 | 0.114 | ppbv | # | 93 |
| 74) 1,2,4-Trimethylbenzene | 11.536 | 105 | 10882 | 0.156 | ppbv | # | 68 |

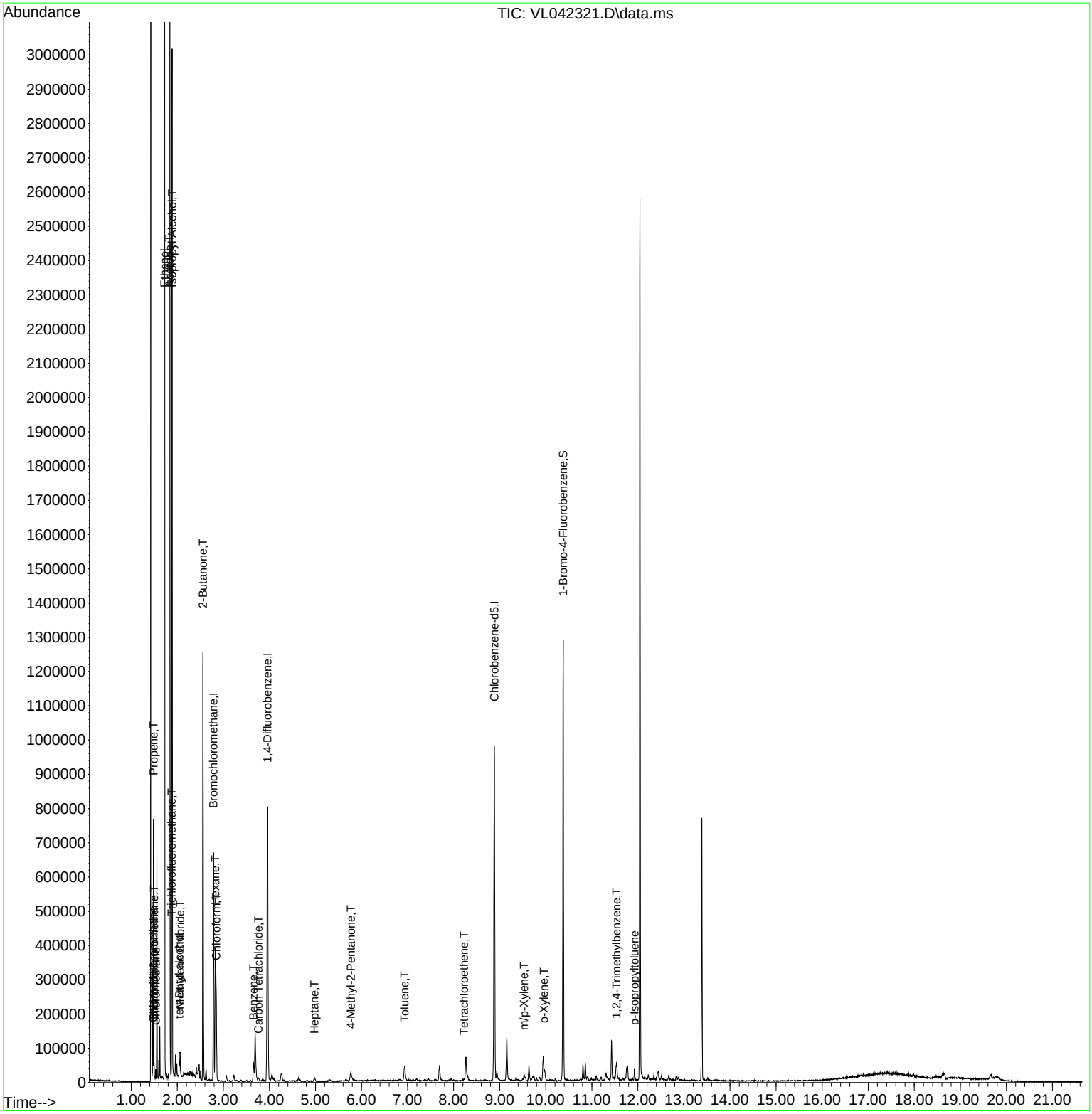
(#) = qualifier out of range (m) = manual integration (+) = signals summed

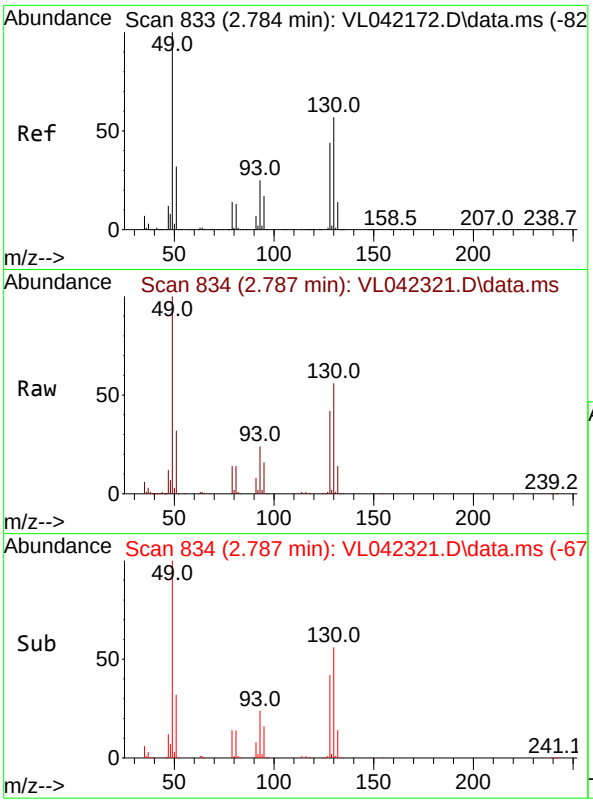
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042321.D
Acq On : 11 Apr 2025 15:36
Operator : SY/MD
Sample : Q1665-18
Misc : 400mL/MSVOA_L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 11 23:01:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

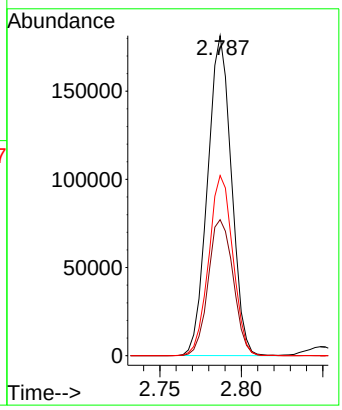





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion: 49 Resp: 18445

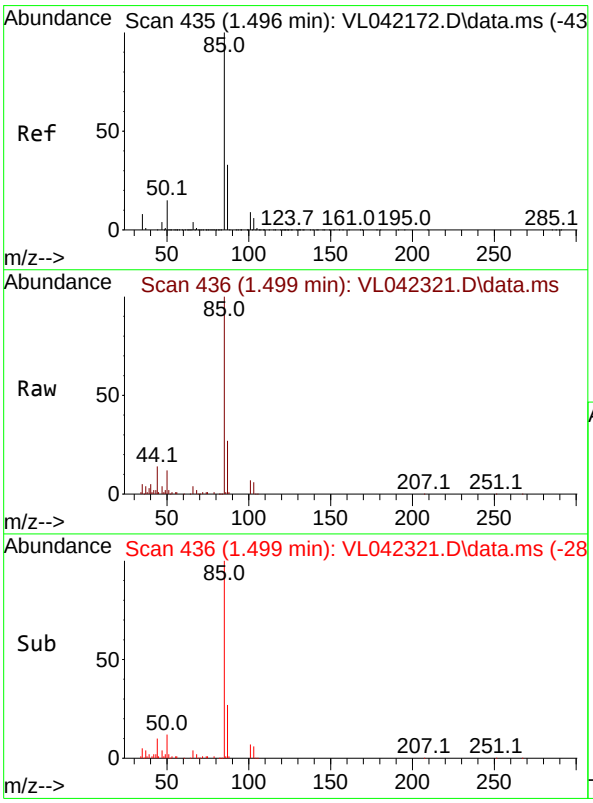
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 44.5 | 22.9 | 68.5 |
| 130 | 57.1 | 28.8 | 86.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025

**Manual Integrations**
**APPROVED**

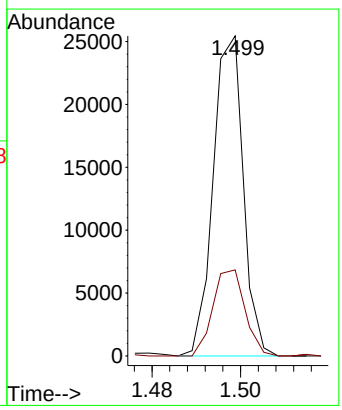
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

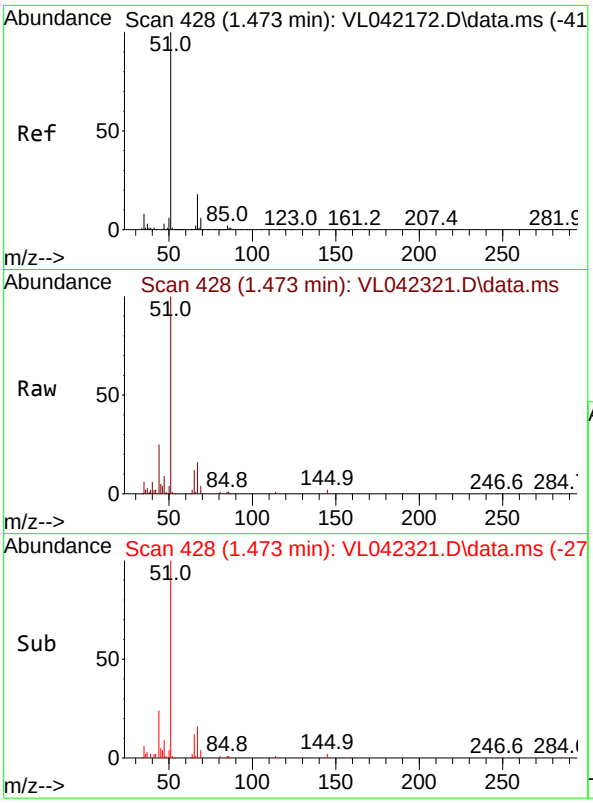



#2
Dichlorodifluoromethane
Concen: 0.440 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion: 85 Resp: 11984

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 26.9 | 26.1 | 39.1 |

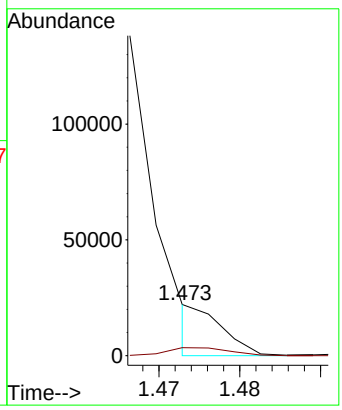





#3
Chlorodifluoromethane
Concen: 0.183 ppbv m
RT: 1.473 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion: 51 Resp: 508

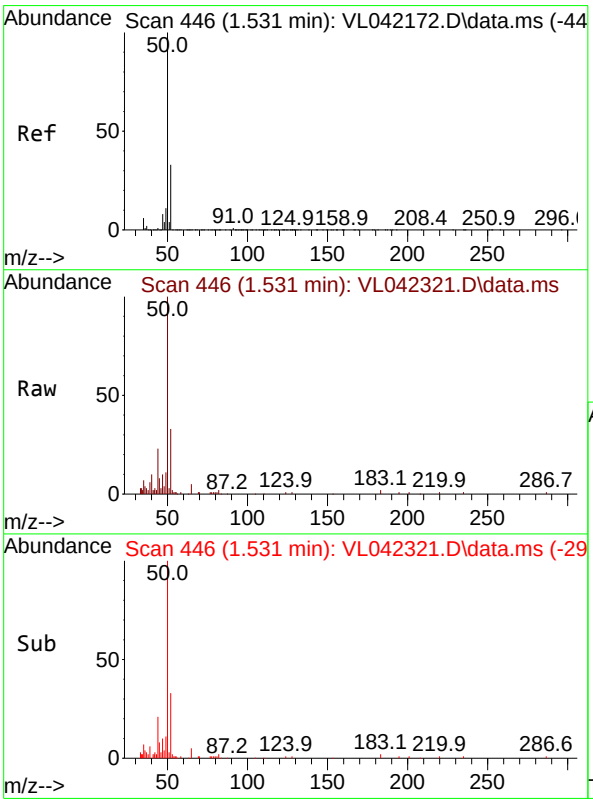
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 37.0 | 15.0 | 22.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025

**Manual Integrations**
**APPROVED**

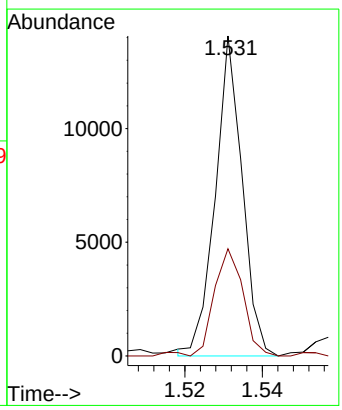
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

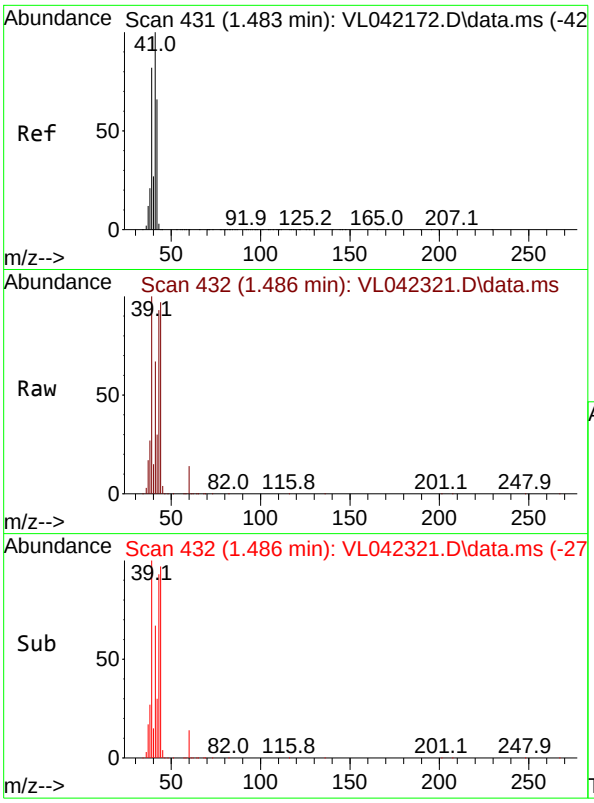



#4
Chloromethane
Concen: 0.609 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion: 50 Resp: 6779

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.0 | 26.1 | 39.1 |

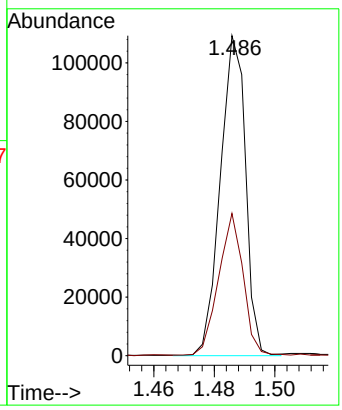





#9
Propene
Concen: 4.979 ppbv m
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion: 41 Resp: 6349

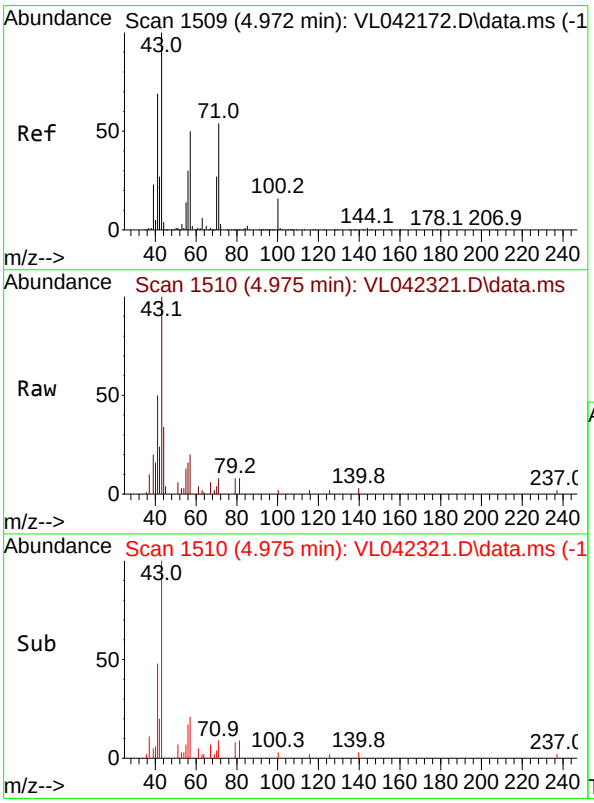
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 119.1 | 55.4 | 83.2# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025

**Manual Integrations**
**APPROVED**

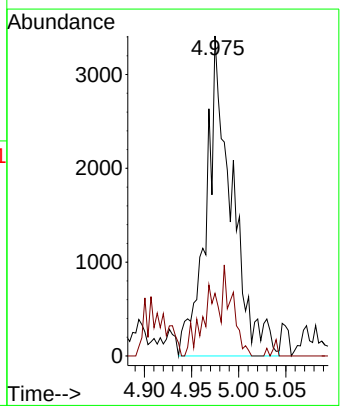
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

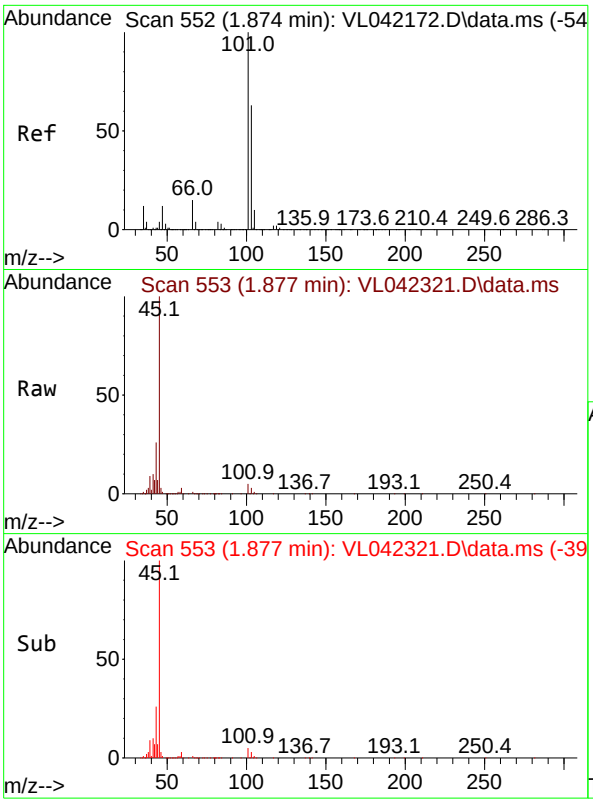



#10
Heptane
Concen: 0.191 ppbv m
RT: 4.975 min Scan# 1510
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion: 43 Resp: 6471

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 0.0 | 39.4 | 59.2# |

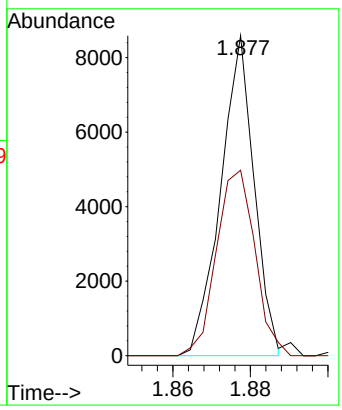





#11
Trichlorofluoromethane
Concen: 0.194 ppbv
RT: 1.877 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion:101 Resp: 515

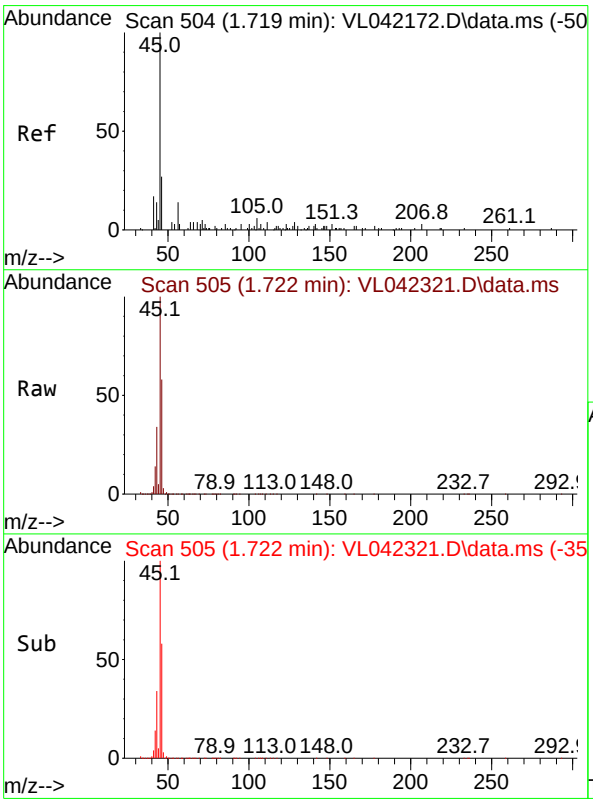
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 58.0 | 50.2 | 75.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025

**Manual Integrations**
**APPROVED**

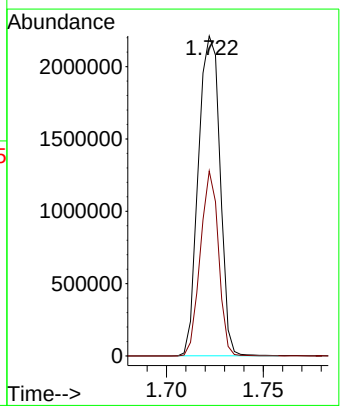
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

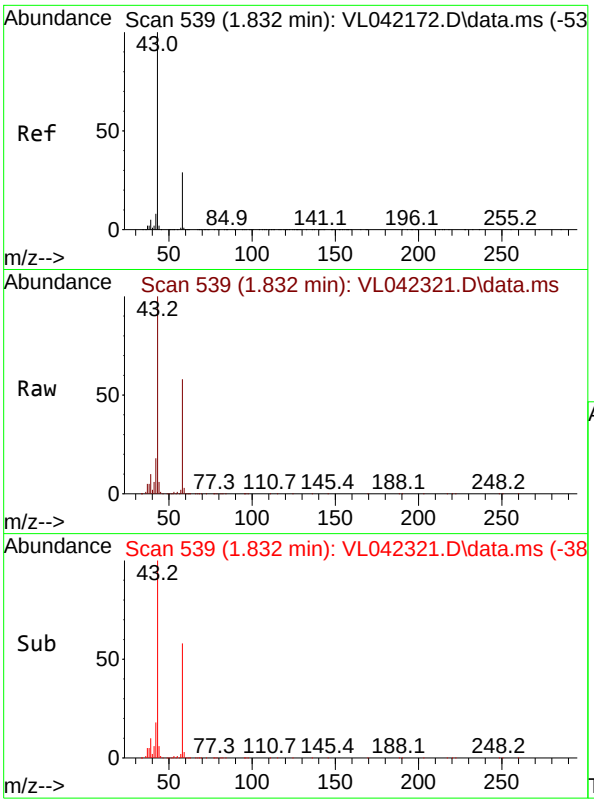



#13
Ethanol
Concen: 1428.217 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion: 45 Resp: 1721714

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 48.6 | 20.2 | 80.8 |






#15
Acetone
Concen: 90.565 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

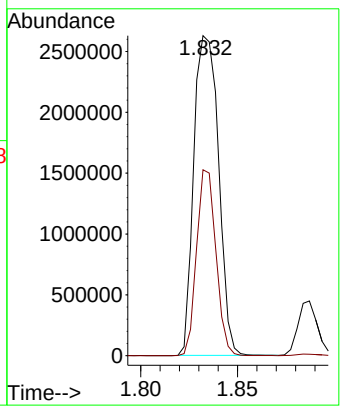
Tgt Ion: 43 Resp: 233628

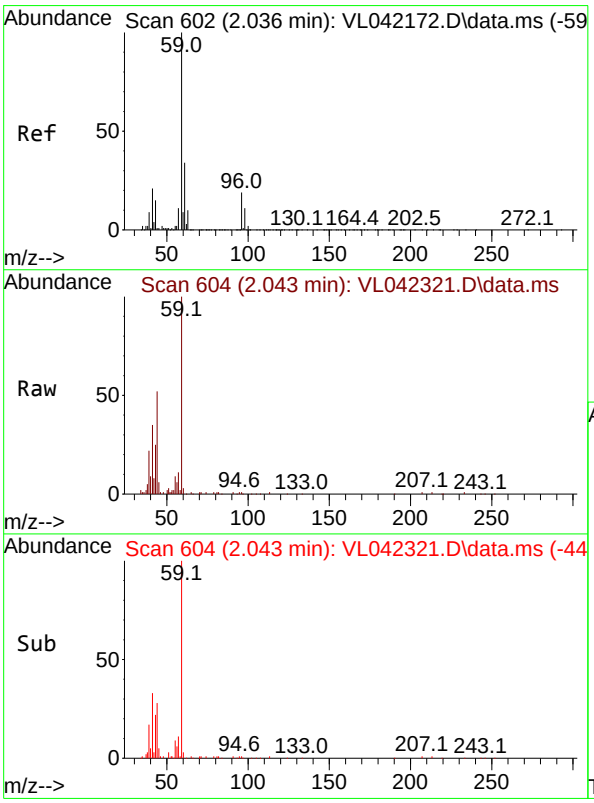
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 45.7 | 23.2 | 34.8# |

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

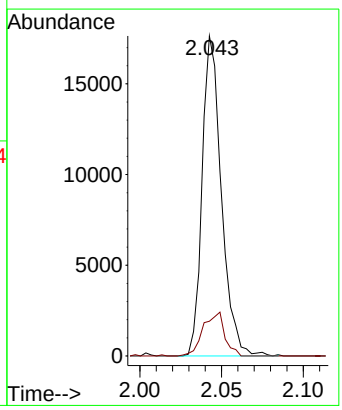


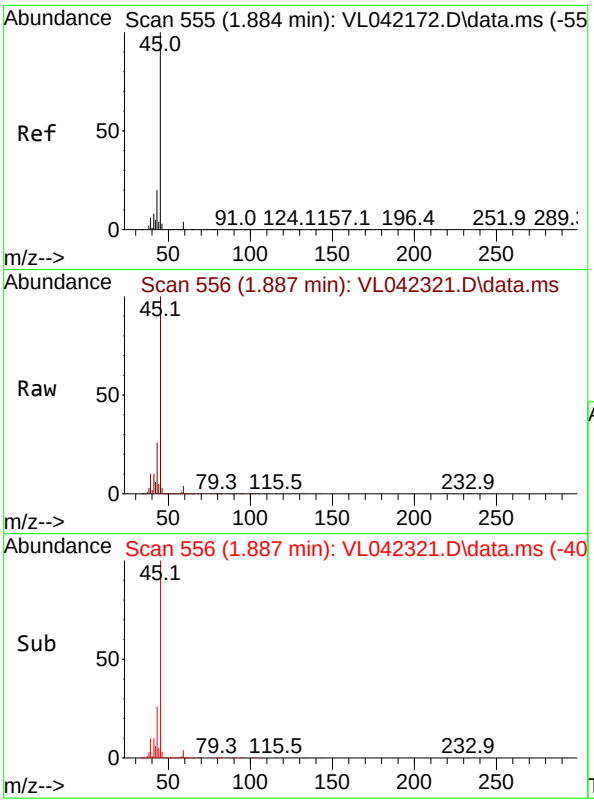




#17
tert-Butyl alcohol
Concen: 0.451 ppbv m
RT: 2.043 min Scan# 604
Delta R.T. 0.006 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion: 59 Resp: 14483

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 33.0 | 8.9 | 13.3# |

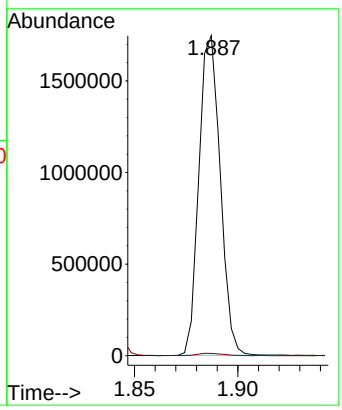





#19
Isopropyl Alcohol
Concen: 86.165 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion: 45 Resp: 125413

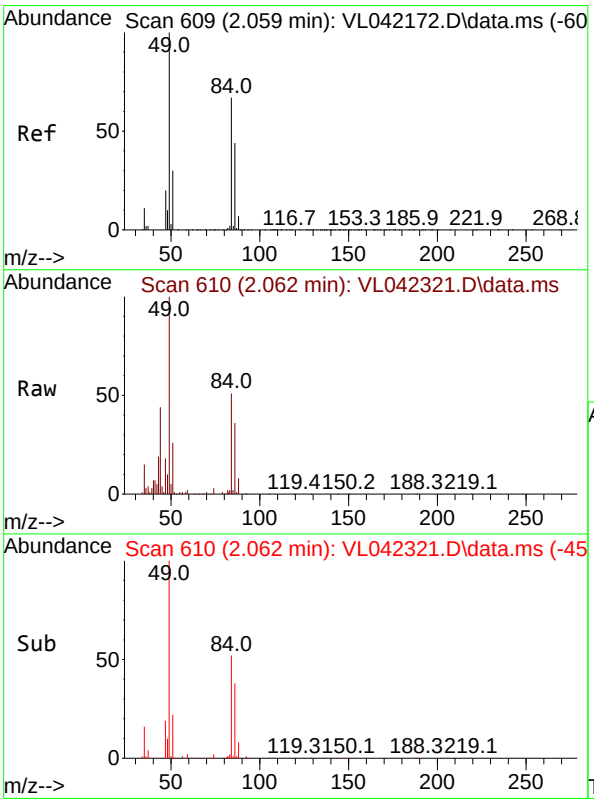
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 85.1 | 36.9 | 55.3# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025

**Manual Integrations**
**APPROVED**

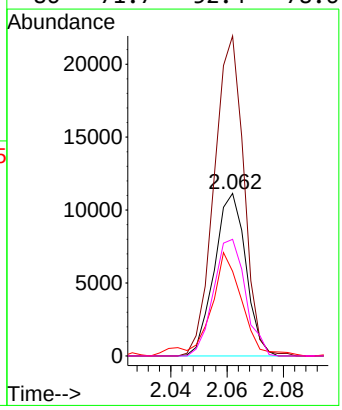
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

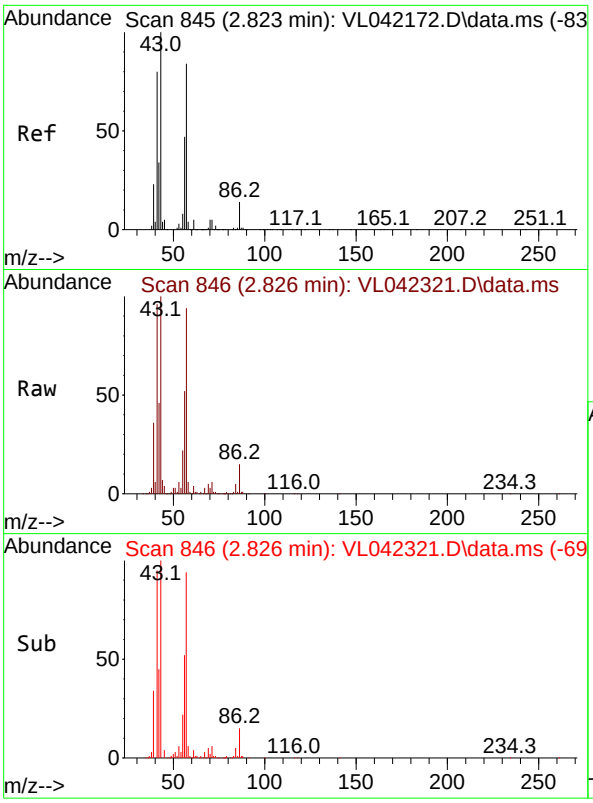



#20
Methylene Chloride
Concen: 0.899 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion: 84 Resp: 8636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 196.9 | 120.2 | 180.4# |
| 51 | 49.7 | 37.4 | 56.0 |
| 86 | 71.7 | 52.4 | 78.6 |

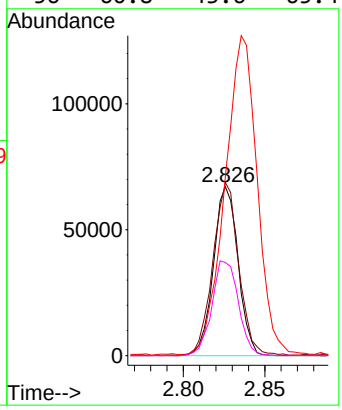





#26
Hexane
Concen: 2.725 ppbv
RT: 2.826 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion: 57 Resp: 7046

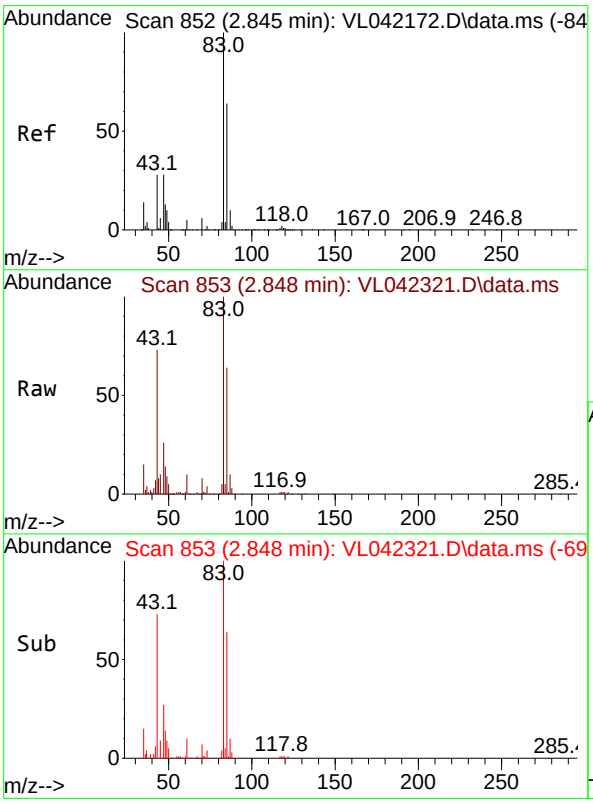
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 107.0 | 76.6 | 114.8 |
| 43 | 249.4 | 207.8 | 311.8 |
| 56 | 60.8 | 43.6 | 65.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025

**Manual Integrations**
**APPROVED**

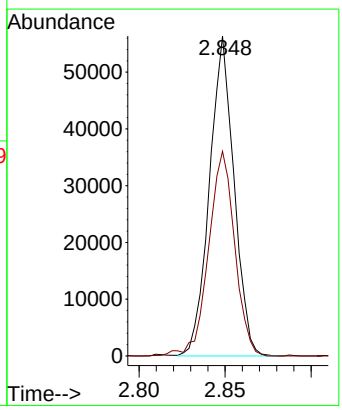
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

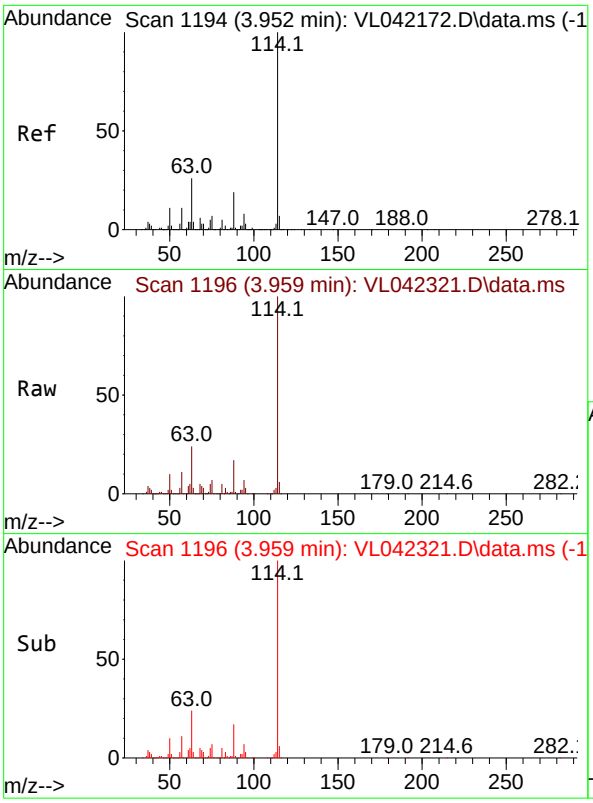



#29
Chloroform
Concen: 1.478 ppbv
RT: 2.848 min Scan# 853
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion: 83 Resp: 55947

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.0 | 51.4 | 77.2 |

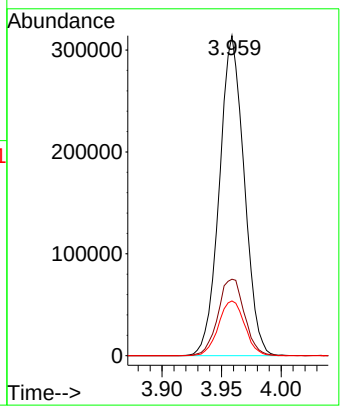





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion:114 Resp: 45400

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.7 | 20.7 | 31.1 |
| 88 | 18.1 | 15.0 | 22.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025

**Manual Integrations**
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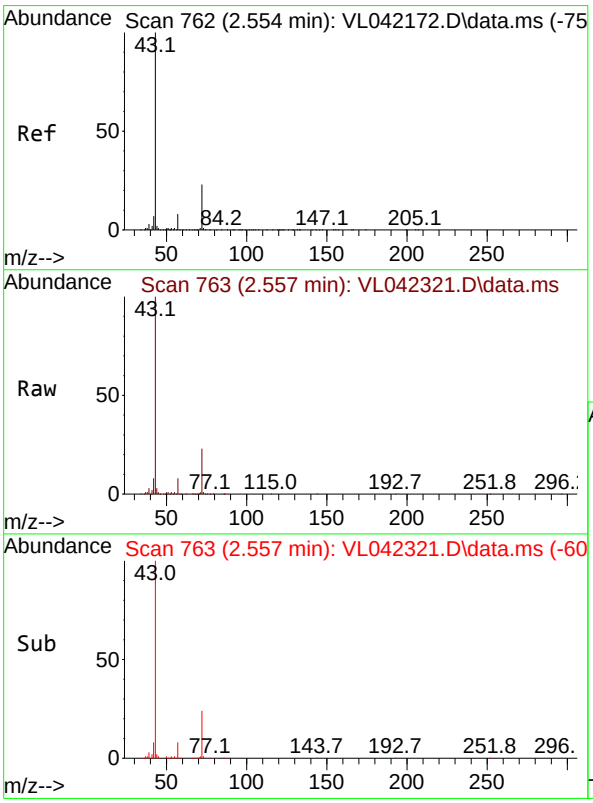
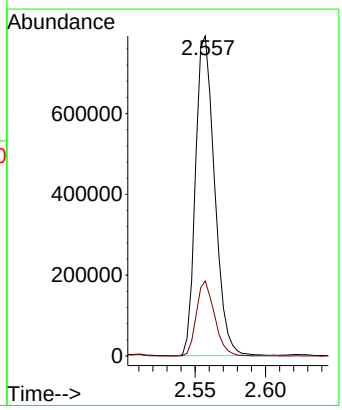
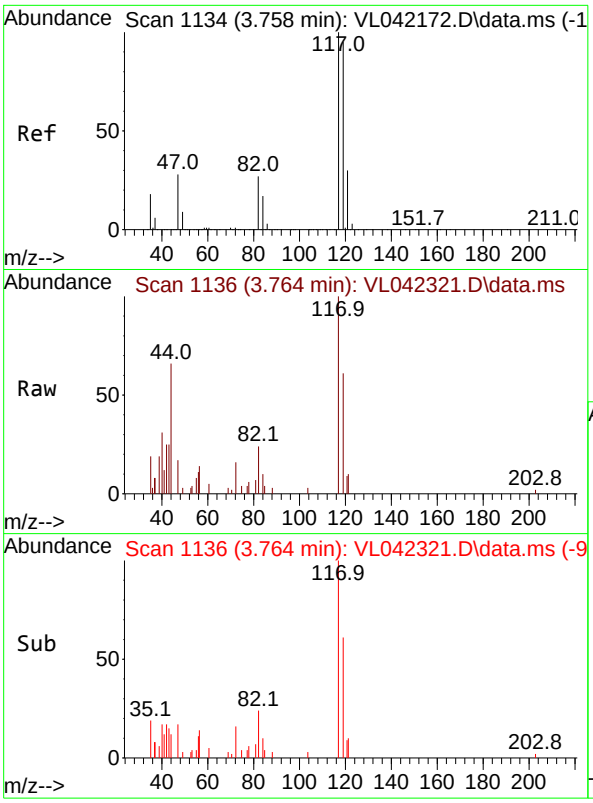



#34
2-Butanone
Concen: 22.673 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion: 43 Resp: 746435

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 22.4 | 18.2 | 27.2 |

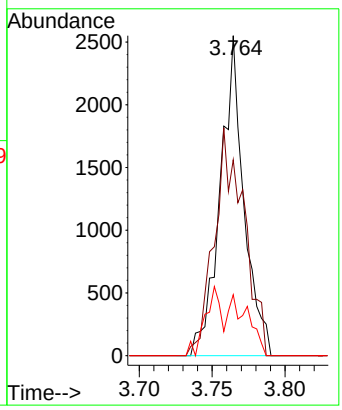





#35
Carbon Tetrachloride
Concen: 0.082 ppbv m
RT: 3.764 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion:117 Resp: 289

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 61.2 | 76.2 | 114.2# |
| 121 | 10.2 | 24.2 | 36.4# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025

**Manual Integrations APPROVED**

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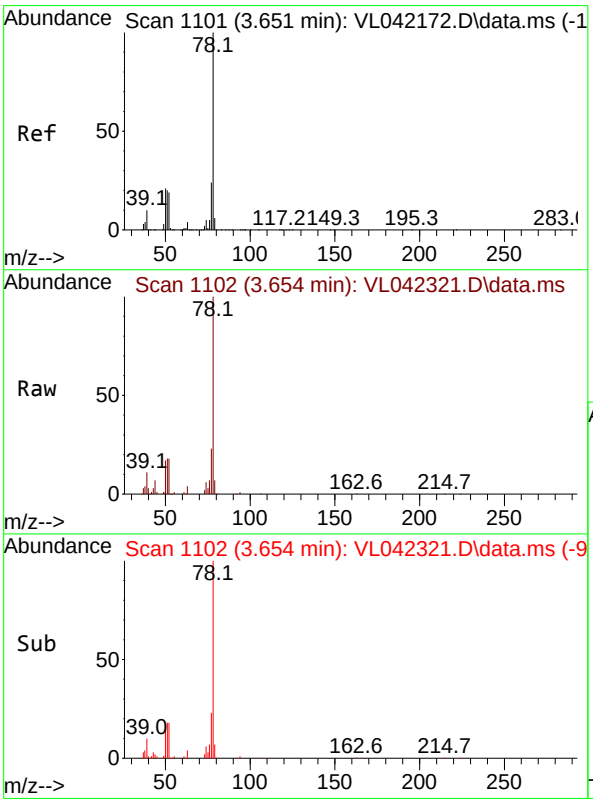
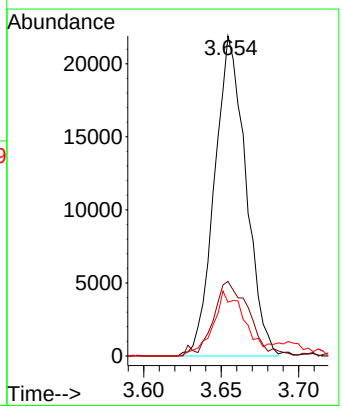
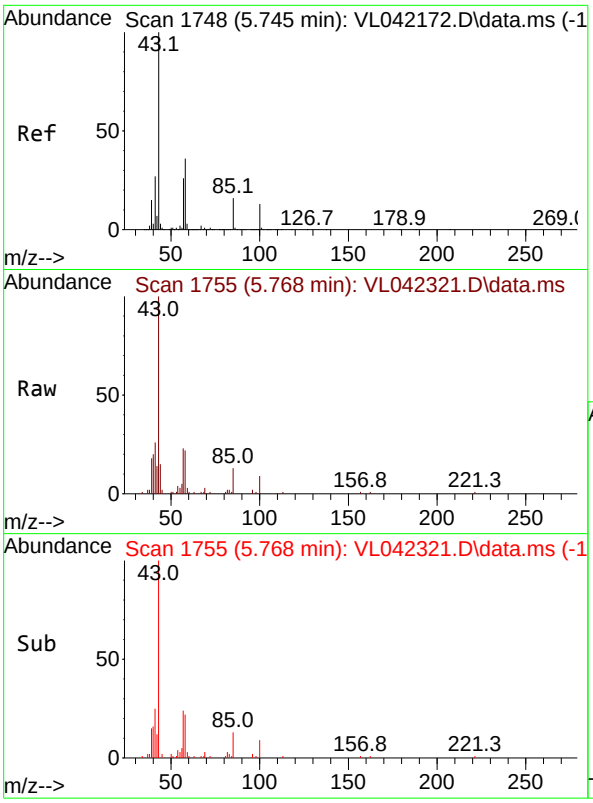



#36
Benzene
Concen: 0.683 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion: 78 Resp: 30723

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.3 | 19.1 | 28.7 |
| 50 | 16.8 | 16.6 | 24.8 |

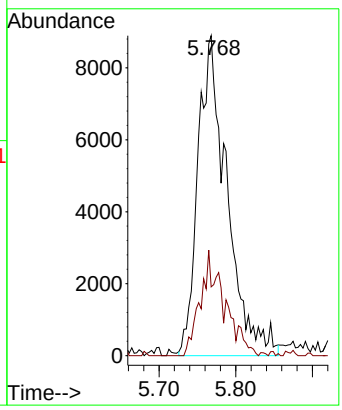





#50
4-Methyl-2-Pentanone
Concen: 0.449 ppbv m
RT: 5.768 min Scan# 1
Delta R.T. 0.022 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion: 43 Resp: 2340

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 0.0 | 29.0 | 43.6# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025

**Manual Integrations**
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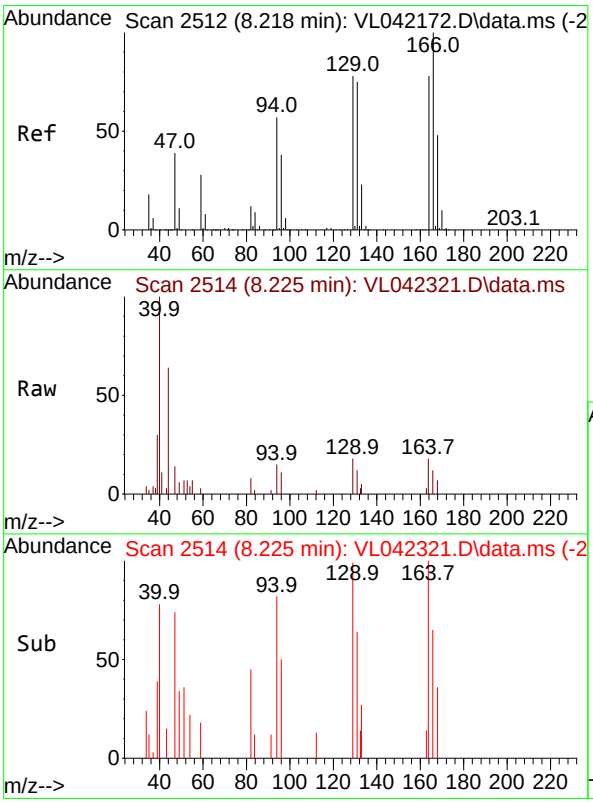
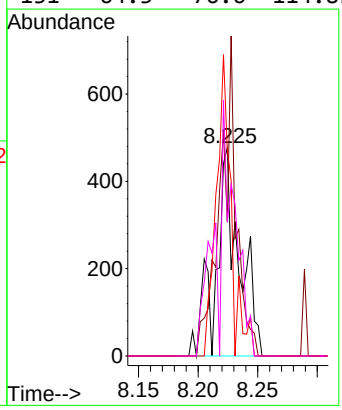
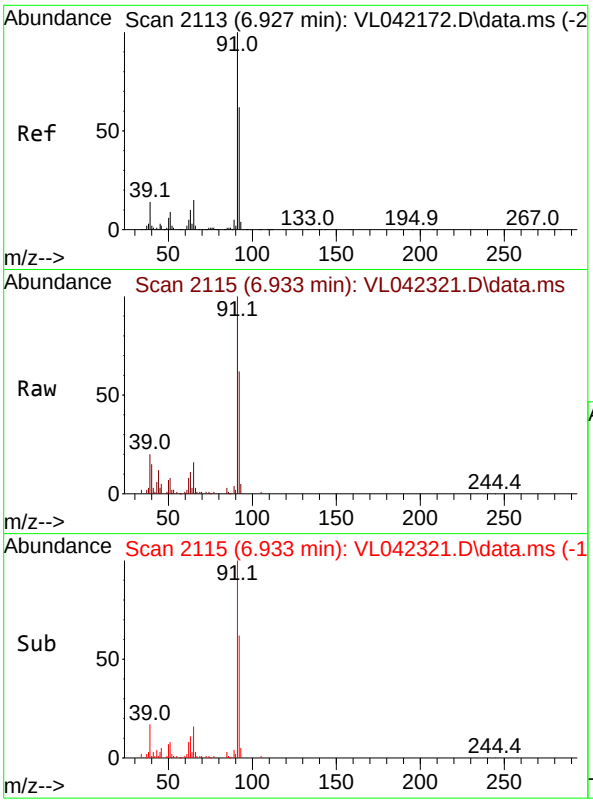



#52
Tetrachloroethene
Concen: 0.037 ppbv m
RT: 8.225 min Scan# 2514
Delta R.T. 0.006 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion:164 Resp: 653

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 64.9 | 102.5 | 153.7# |
| 129 | 98.9 | 79.8 | 119.8 |
| 131 | 64.3 | 76.6 | 114.8# |

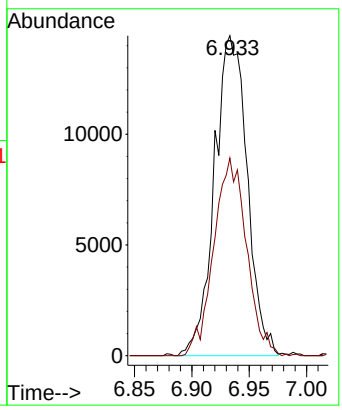





#53
Toluene
Concen: 0.538 ppbv
RT: 6.933 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion: 91 Resp: 2869

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 61.8 | 48.4 | 72.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025

**Manual Integrations**
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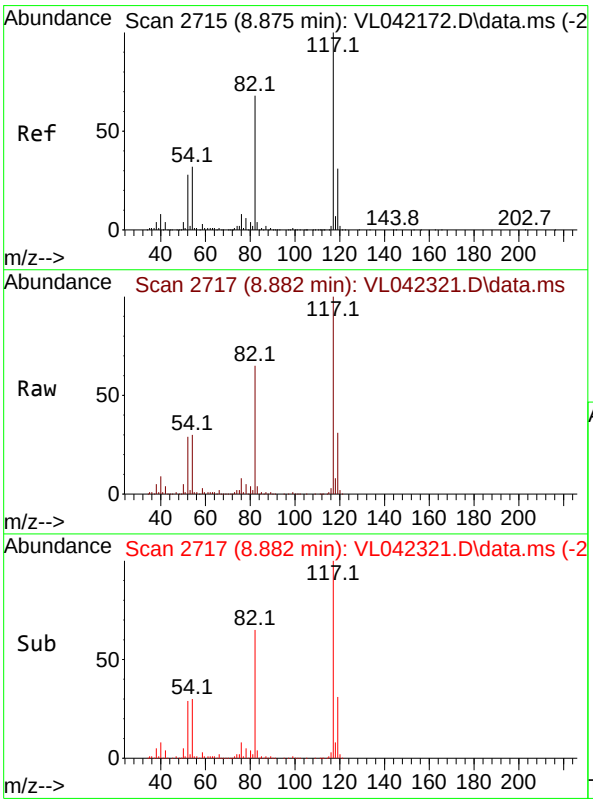
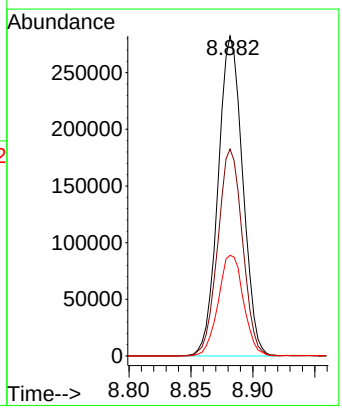
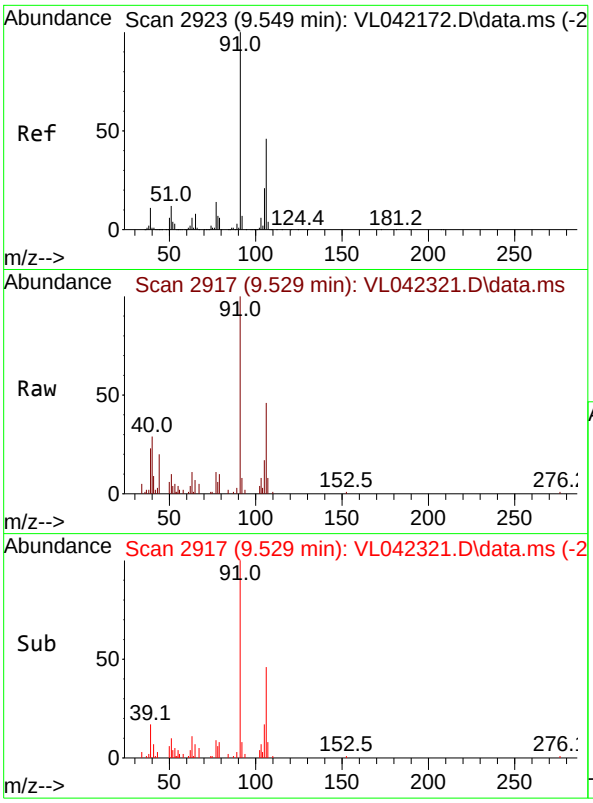



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. 0.006 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion:117 Resp: 391031

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 65.2 | 55.8 | 83.6 |
| 119 | 32.4 | 25.5 | 38.3 |






#59
m/p-Xylene
Concen: 0.200 ppbv m
RT: 9.529 min Scan# 2
Delta R.T. -0.020 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion: 91 Resp: 1109

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 0.0 | 36.4 | 54.6 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025

**Manual Integrations**
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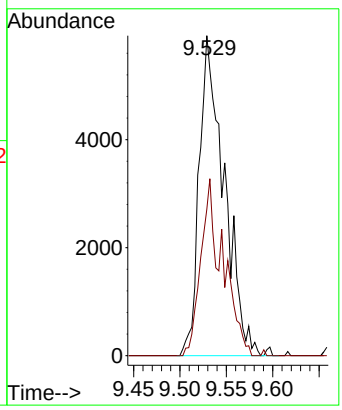
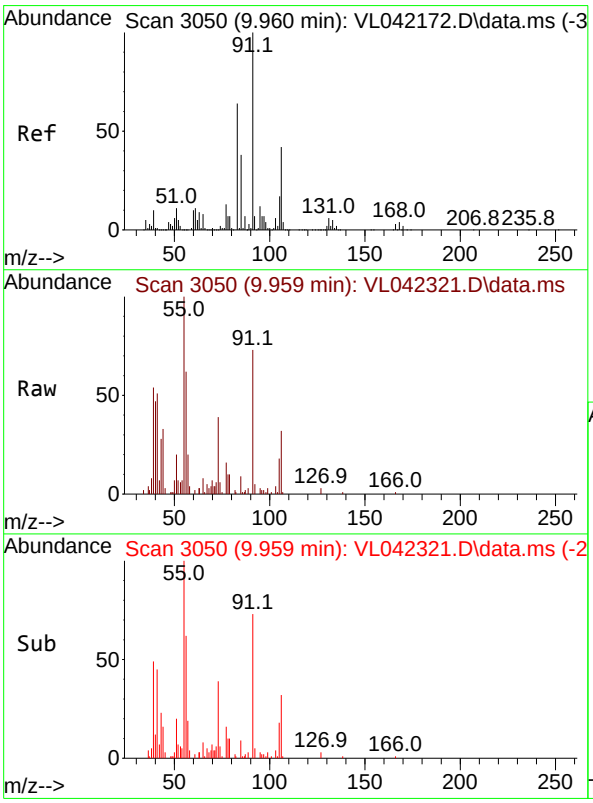
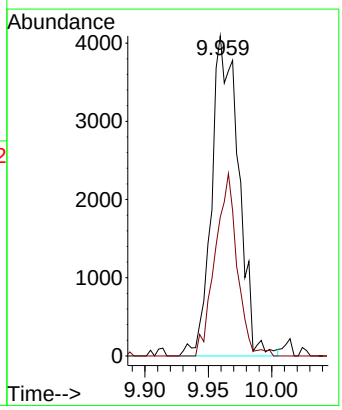


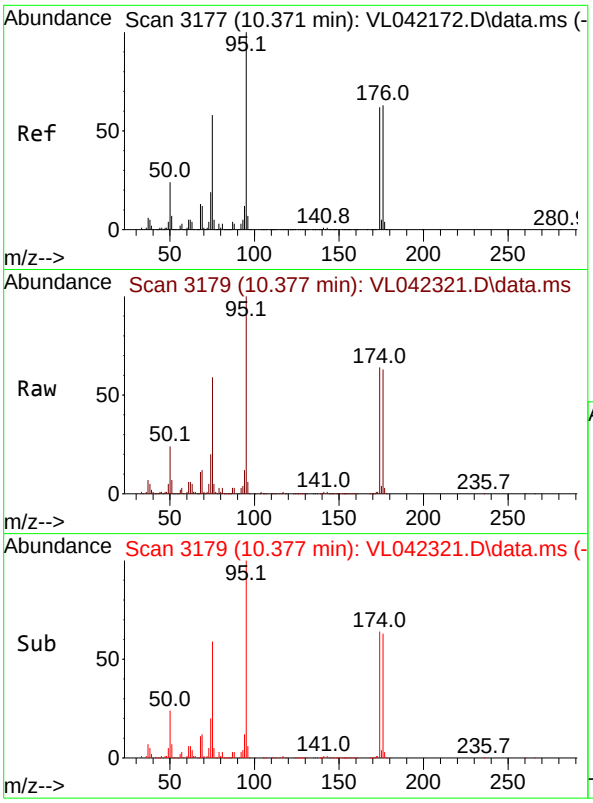




#60
o-Xylene
Concen: 0.109 ppbv m
RT: 9.959 min Scan# 3050
Delta R.T. -0.000 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion: 91 Resp: 6064

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 46.6 | 20.8 | 62.5 |

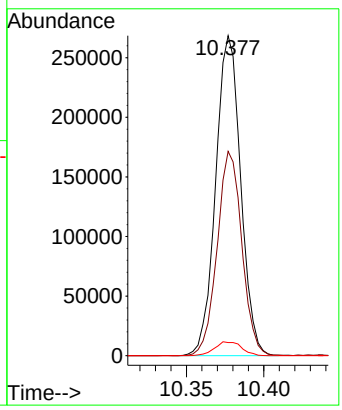





#68
1-Bromo-4-Fluorobenzene
Concen: 9.386 ppbv
RT: 10.377 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion: 95 Resp: 30141

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 63.4 | 50.6 | 76.0 |
| 175 | 4.7 | 3.8 | 5.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025

**Manual Integrations**
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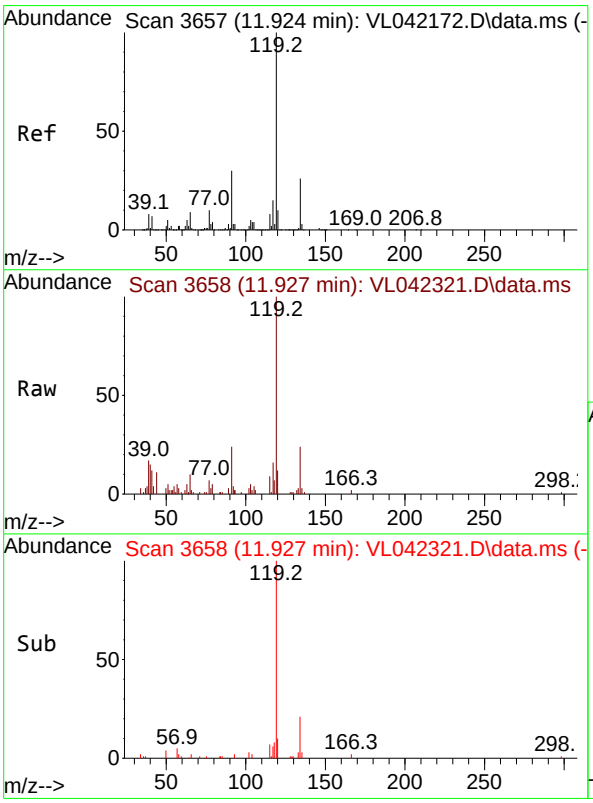
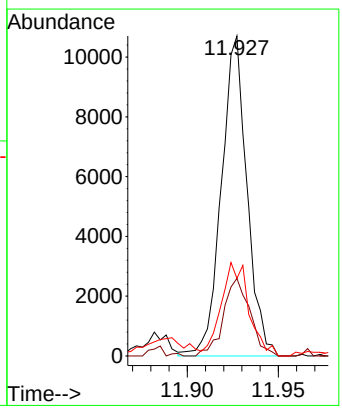
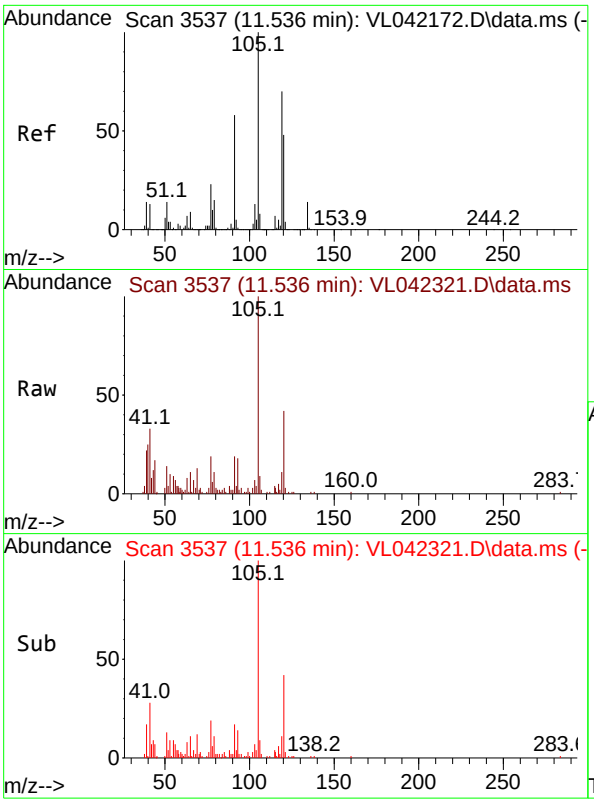



#69
p-Isopropyltoluene
Concen: 0.114 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion:119 Resp: 10463

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.2 | 20.4 | 30.6 |
| 91 | 36.3 | 23.7 | 35.5# |

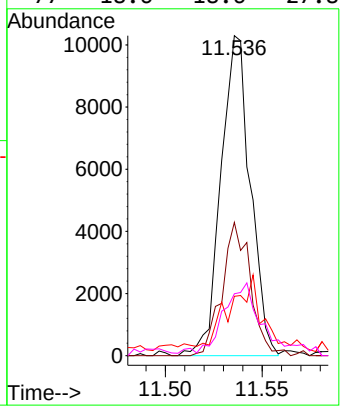





#74
1,2,4-Trimethylbenzene
Concen: 0.156 ppbv
RT: 11.536 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion:105 Resp: 1088

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 40.0 | 38.6 | 58.0 |
| 91 | 15.8 | 46.2 | 69.2# |
| 77 | 18.6 | 18.6 | 27.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042321.D
Acq On : 11 Apr 2025 15:36
Operator : SY/MD
Sample : Q1665-18
Misc : 400mL/MSVOA_L
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

Signal : TIC: VL042321.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.431 | 410 | 415 | 420 | rBV | 4517017 | 5153864 | 100.00% | 18.717% |
| 2 | 1.466 | 423 | 426 | 428 | rVV | 312649 | 159503 | 3.09% | 0.579% |
| 3 | 1.486 | 428 | 432 | 438 | rVB2 | 749422 | 405028 | 7.86% | 1.471% |
| 4 | 1.557 | 450 | 454 | 461 | rBV | 697970 | 378399 | 7.34% | 1.374% |
| 5 | 1.622 | 470 | 474 | 478 | rVB | 152301 | 85941 | 1.67% | 0.312% |
| 6 | 1.722 | 500 | 505 | 518 | rBV | 4849867 | 3440613 | 66.76% | 12.495% |
| 7 | 1.832 | 535 | 539 | 549 | rBV | 5743431 | 4524378 | 87.79% | 16.431% |
| 8 | 1.887 | 551 | 556 | 568 | rVB | 2999529 | 2140699 | 41.54% | 7.774% |
| 9 | 2.557 | 757 | 763 | 774 | rBV | 1249370 | 1168551 | 22.67% | 4.244% |
| 10 | 2.787 | 826 | 834 | 840 | rBV | 665833 | 681609 | 13.23% | 2.475% |
| 11 | 2.829 | 840 | 847 | 862 | rVB4 | 386924 | 723248 | 14.03% | 2.627% |
| 12 | 3.658 | 1092 | 1103 | 1108 | rBV3 | 52362 | 79481 | 1.54% | 0.289% |
| 13 | 3.690 | 1108 | 1113 | 1129 | rVB2 | 137575 | 209630 | 4.07% | 0.761% |
| 14 | 3.959 | 1183 | 1196 | 1210 | rBV | 802244 | 1219447 | 23.66% | 4.429% |
| 15 | 5.765 | 1741 | 1754 | 1769 | rBV3 | 24314 | 64903 | 1.26% | 0.236% |
| 16 | 6.933 | 2102 | 2115 | 2128 | rBV2 | 40994 | 90852 | 1.76% | 0.330% |
| 17 | 7.694 | 2337 | 2350 | 2359 | rBV4 | 42230 | 76460 | 1.48% | 0.278% |
| 18 | 8.267 | 2516 | 2527 | 2536 | rBV3 | 66192 | 104592 | 2.03% | 0.380% |
| 19 | 8.882 | 2703 | 2717 | 2728 | rBV | 979887 | 1401276 | 27.19% | 5.089% |
| 20 | 9.153 | 2790 | 2801 | 2813 | rBV2 | 122986 | 188629 | 3.66% | 0.685% |
| 21 | 9.632 | 2940 | 2949 | 2960 | rBV2 | 44595 | 68239 | 1.32% | 0.248% |
| 22 | 9.946 | 3034 | 3046 | 3053 | rBV6 | 71633 | 130873 | 2.54% | 0.475% |
| 23 | 10.377 | 3163 | 3179 | 3188 | rBV | 1287388 | 1451377 | 28.16% | 5.271% |
| 24 | 10.807 | 3305 | 3312 | 3321 | rBV3 | 46584 | 56863 | 1.10% | 0.207% |
| 25 | 11.426 | 3490 | 3503 | 3513 | rBV3 | 115794 | 147995 | 2.87% | 0.537% |
| 26 | 11.536 | 3527 | 3537 | 3549 | rVB6 | 47089 | 90827 | 1.76% | 0.330% |
| 27 | 12.044 | 3684 | 3694 | 3703 | rBV | 2571263 | 2526939 | 49.03% | 9.177% |
| 28 | 12.442 | 3801 | 3817 | 3824 | rBV8 | 25442 | 58837 | 1.14% | 0.214% |
| 29 | 13.387 | 4100 | 4109 | 4118 | rBV2 | 766919 | 706774 | 13.71% | 2.567% |

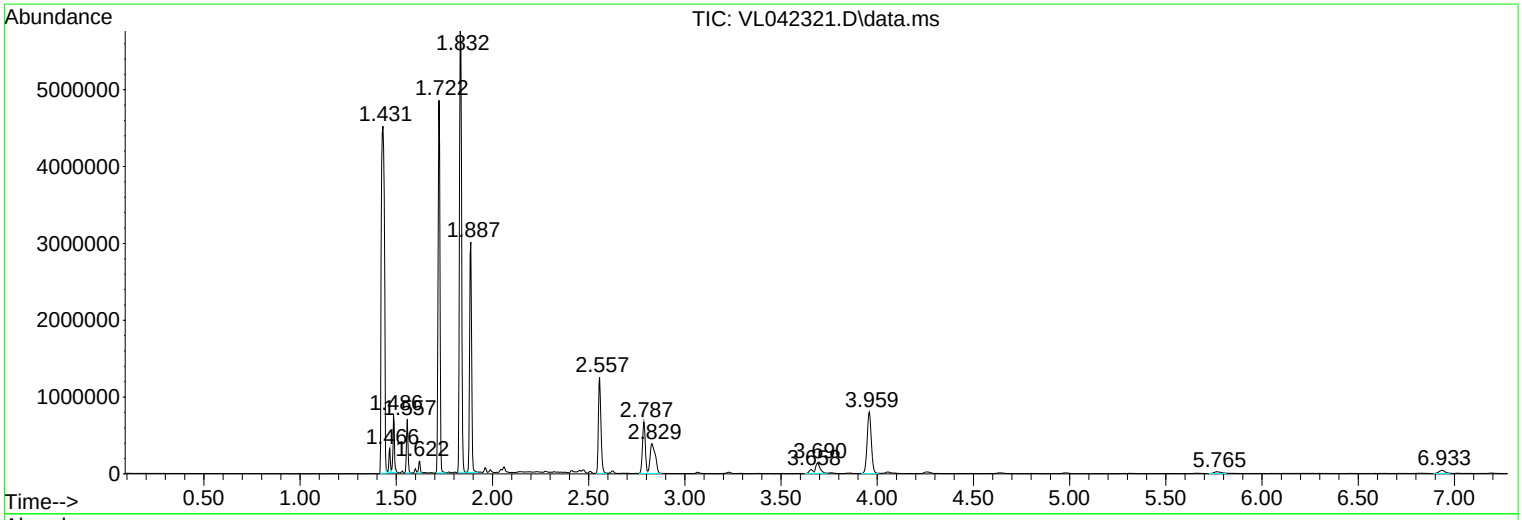
Sum of corrected areas: 27535827

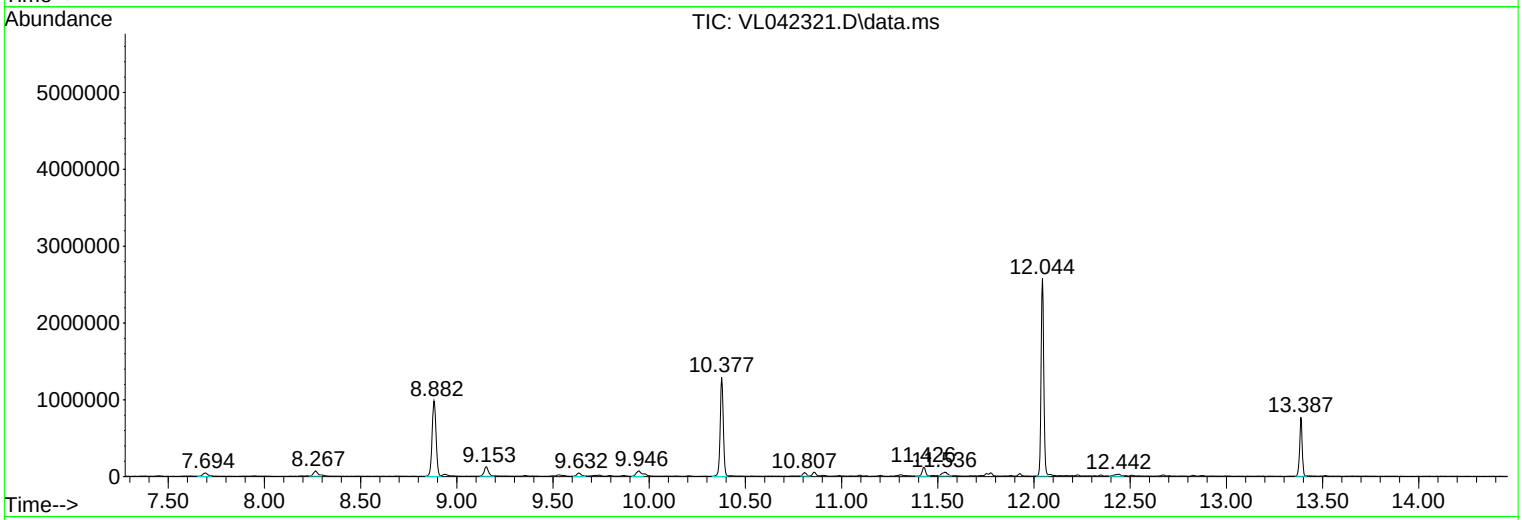
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042321.D
Acq On : 11 Apr 2025 15:36
Operator : SY/MD
Sample : Q1665-18
Misc : 400mL/MSVOA_L
ALS Vial : 4 Sample Multiplier: 1

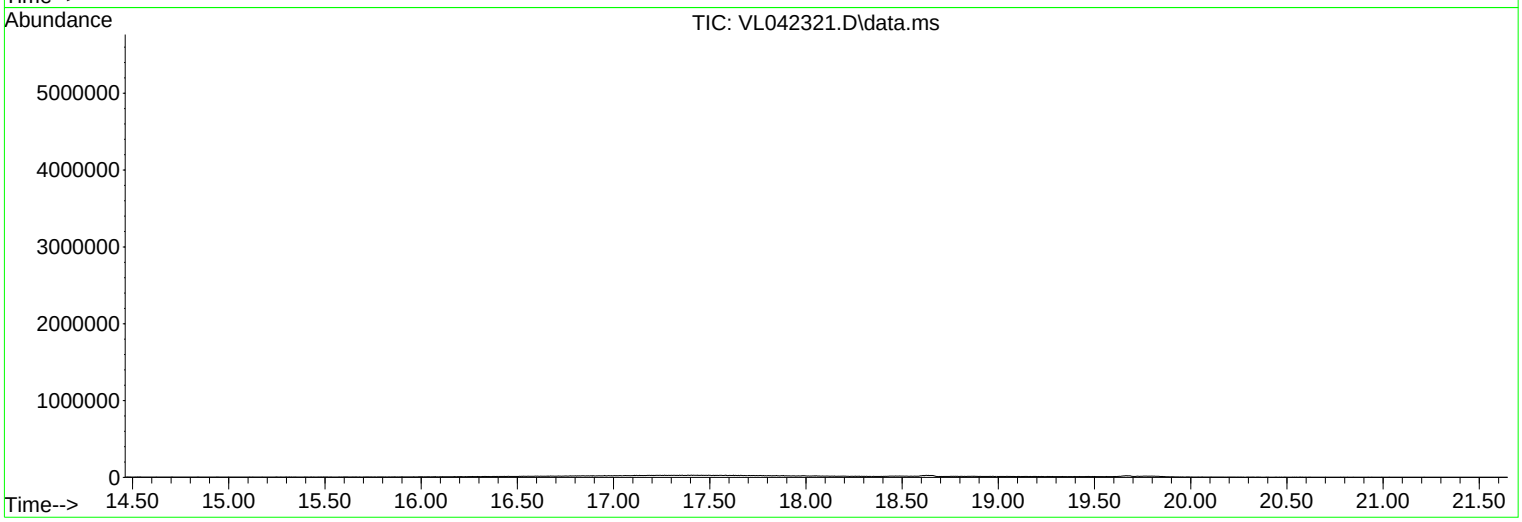
**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042321.D
Acq On : 11 Apr 2025 15:36
Operator : SY/MD
Sample : Q1665-18
Misc : 400mL/MSVOA_L
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

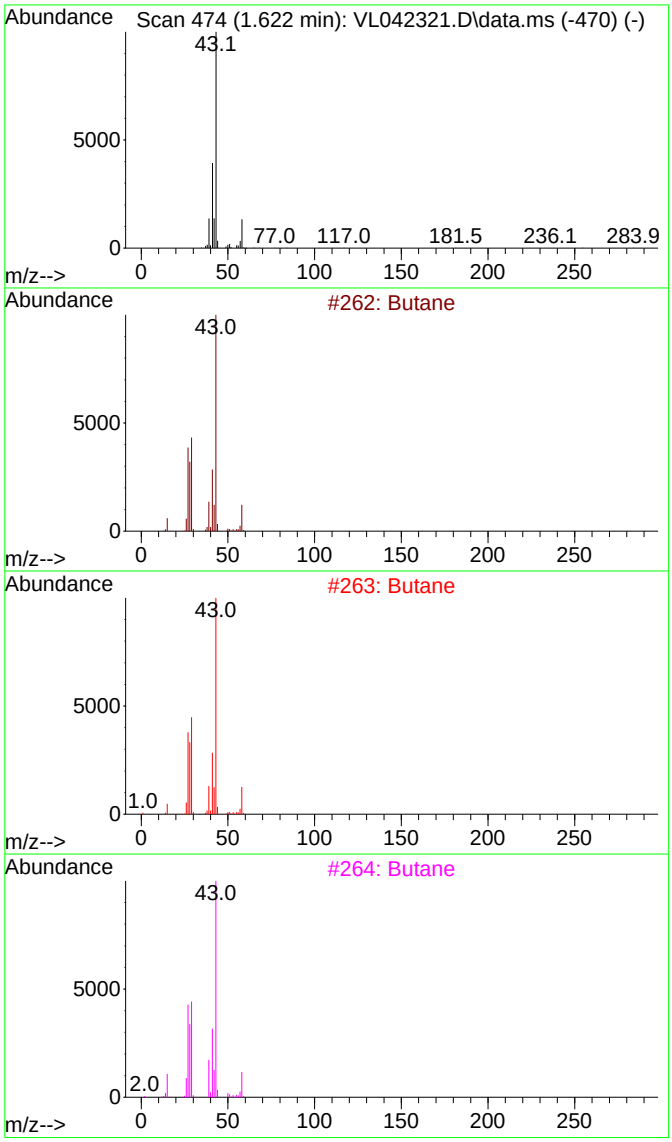
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

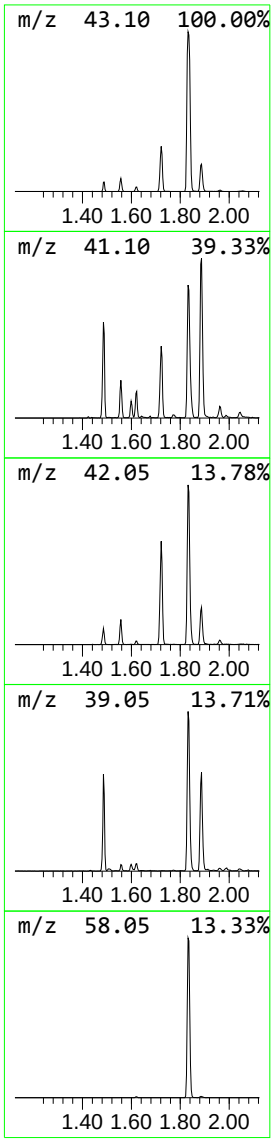
**********

Peak Number 1 Butane Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.622 | 1.26 ppbv | 85941 | Bromochloromethane | 2.787 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane | 58 | C4H10 | 000106-97-8 | 72 |
| 2 | Butane | 58 | C4H10 | 000106-97-8 | 72 |
| 3 | Butane | 58 | C4H10 | 000106-97-8 | 64 |
| 4 | Butane | 58 | C4H10 | 000106-97-8 | 59 |
| 5 | Diazene, dimethyl- | 58 | C2H6N2 | 000503-28-6 | 4 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042321.D
Acq On : 11 Apr 2025 15:36
Operator : SY/MD
Sample : Q1665-18
Misc : 400mL/MSVOA_L
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025

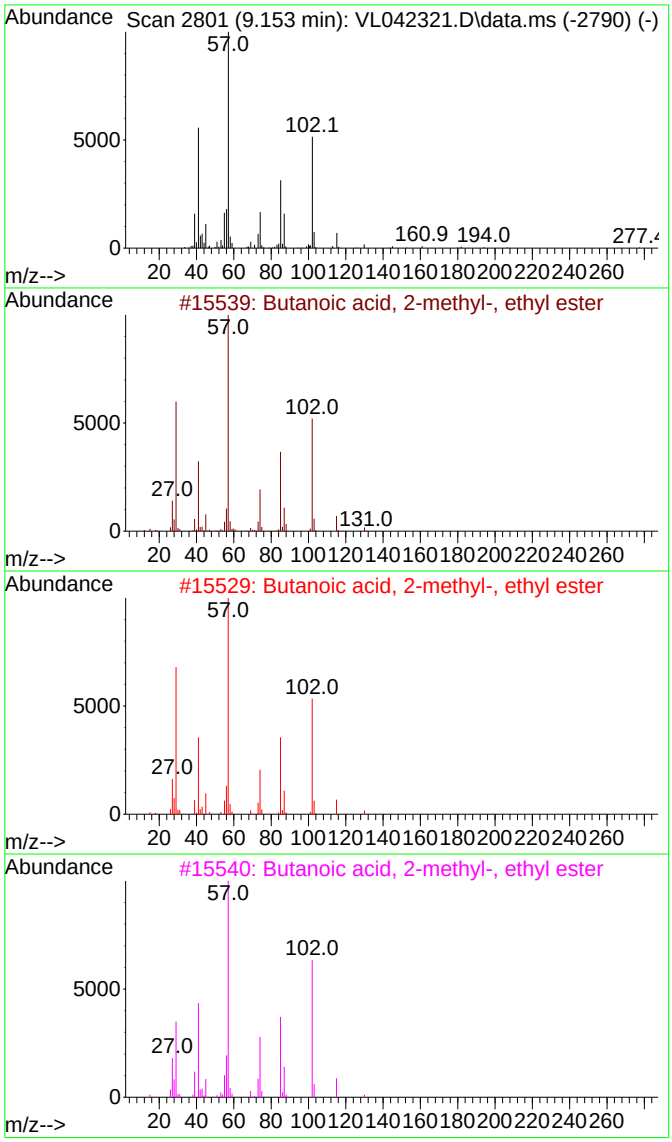
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

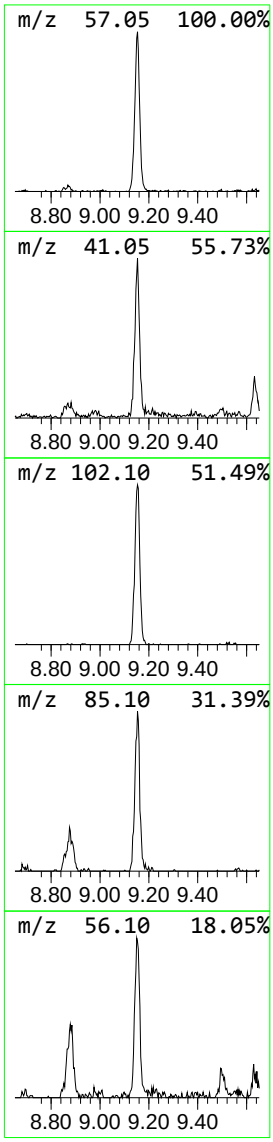
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 2 Butanoic acid, 2-methyl-, e... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.153 | 1.35 ppbv | 188629 | Chlorobenzene-d5 | 8.882 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butanoic acid, 2-methyl-, ethyl ... | 130 | C7H14O2 | 007452-79-1 | 91 |
| 2 | Butanoic acid, 2-methyl-, ethyl ... | 130 | C7H14O2 | 007452-79-1 | 91 |
| 3 | Butanoic acid, 2-methyl-, ethyl ... | 130 | C7H14O2 | 007452-79-1 | 72 |
| 4 | Butanoic acid, 2-methyl-, ethyl ... | 130 | C7H14O2 | 007452-79-1 | 64 |
| 5 | Butanoic acid, 2-methyl-, ethyl ... | 130 | C7H14O2 | 007452-79-1 | 49 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042321.D
Acq On : 11 Apr 2025 15:36
Operator : SY/MD
Sample : Q1665-18
Misc : 400mL/MSVOA_L
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025

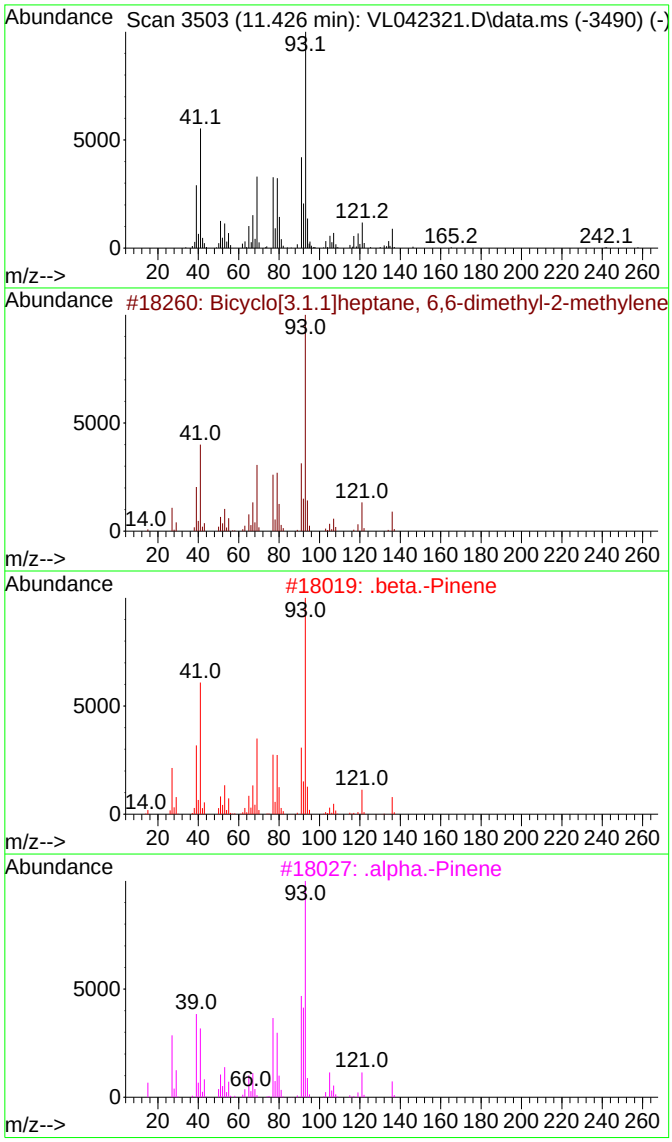
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

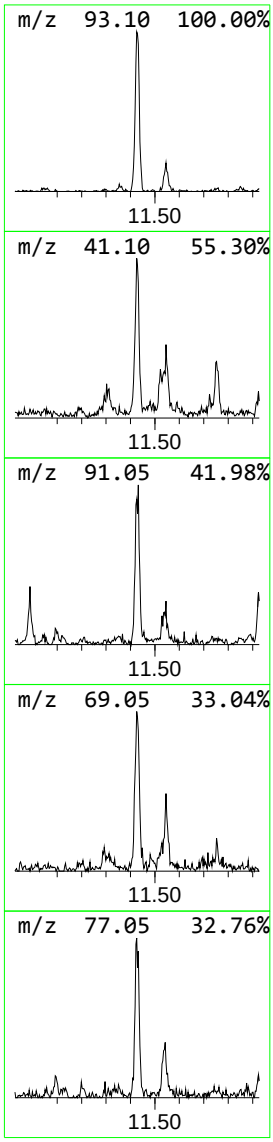
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 3 Bicyclo[3.1.1]heptane, 6,6-... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.426 | 1.06 ppbv | 147995 | Chlorobenzene-d5 | 8.882 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Bicyclo[3.1.1]heptane, 6,6-dimet... | 136 | C10H16 | 018172-67-3 | 94 |
| 2 | .beta.-Pinene | 136 | C10H16 | 000127-91-3 | 93 |
| 3 | .alpha.-Pinene | 136 | C10H16 | 000080-56-8 | 91 |
| 4 | .beta.-Pinene | 136 | C10H16 | 000127-91-3 | 90 |
| 5 | (+)-3-Carene | 136 | C10H16 | 000498-15-7 | 87 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042321.D
Acq On : 11 Apr 2025 15:36
Operator : SY/MD
Sample : Q1665-18
Misc : 400mL/MSVOA_L
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

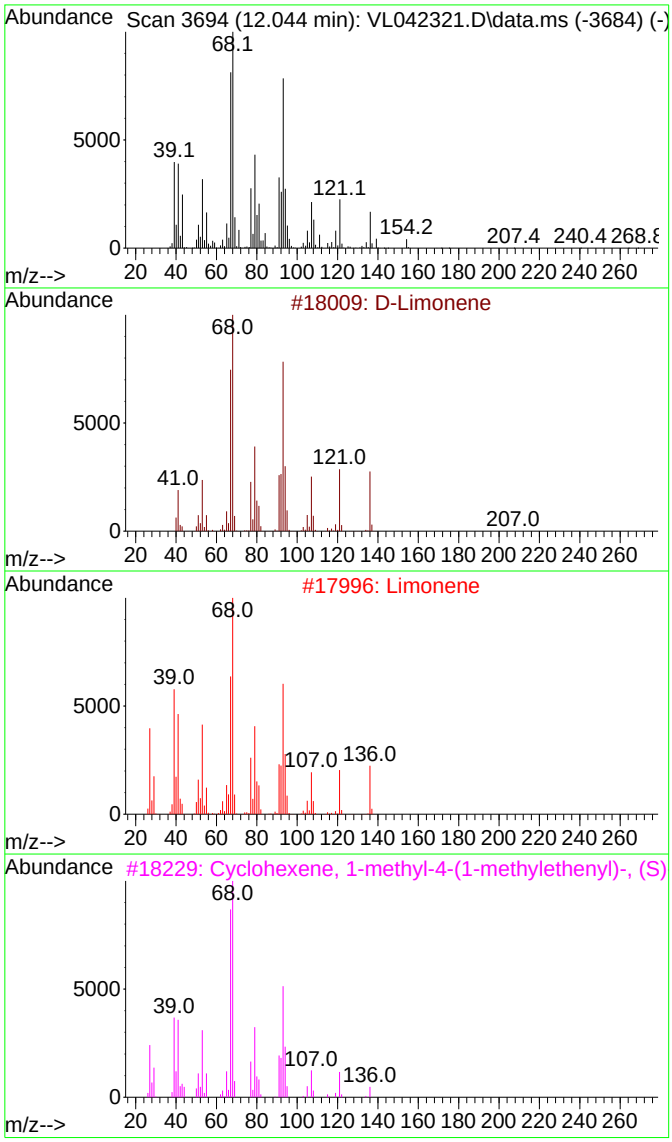
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

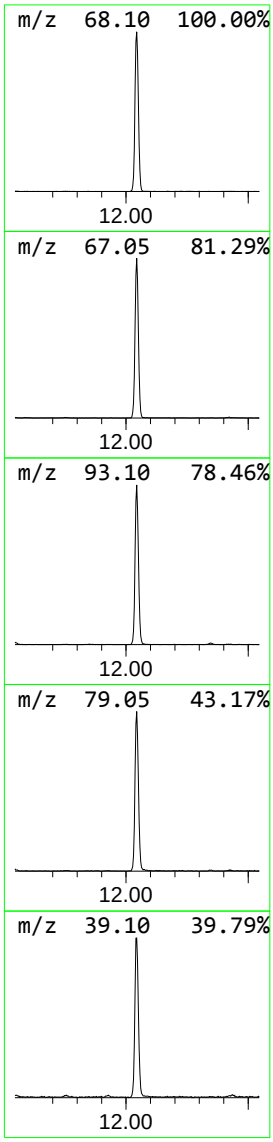
**********

Peak Number 4 D-Limonene Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.044 | 18.03 ppbv | 2526940 | Chlorobenzene-d5 | 8.882 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | D-Limonene | 136 | C10H16 | 005989-27-5 | 97 |
| 2 | Limonene | 136 | C10H16 | 000138-86-3 | 94 |
| 3 | Cyclohexene, 1-methyl-4-(1-methy... | 136 | C10H16 | 005989-54-8 | 91 |
| 4 | Limonene | 136 | C10H16 | 000138-86-3 | 89 |
| 5 | Limonene | 136 | C10H16 | 000138-86-3 | 81 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042321.D
Acq On : 11 Apr 2025 15:36
Operator : SY/MD
Sample : Q1665-18
Misc : 400mL/MSVOA_L
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Butane | 1.622 | 1.3 | ppbv | 85941 | 1 | 2.787 | 681609 | 10.0 |
| Butanoic acid, ... | 9.153 | 1.4 | ppbv | 188629 | 3 | 8.882 | 1401280 | 10.0 |
| Bicyclo[3.1.1]h... | 11.426 | 1.1 | ppbv | 147995 | 3 | 8.882 | 1401280 | 10.0 |
| D-Limonene | 12.044 | 18.0 | ppbv | 2526940 | 3 | 8.882 | 1401280 | 10.0 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B10-3-3242025DL | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-18DL | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042331.D | 10 | | 04/15/25 14:29 | VL041525 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 2.10 | 10.4 | UD | 10.4 | 24.7 | ug/m3 |
| 64-17-5 | Ethanol | 1800 | 3390 | EDQ | 6.03 | 9.42 | ug/m3 |
| 74-87-3 | Chloromethane | 0.98 | 2.02 | UD | 2.02 | 10.3 | ug/m3 |
| 75-01-4 | Vinyl Chloride | 0.14 | 0.36 | UD | 0.36 | 0.77 | ug/m3 |
| 74-83-9 | Bromomethane | 1.40 | 5.44 | UD | 5.44 | 19.4 | ug/m3 |
| 75-00-3 | Chloroethane | 1.70 | 4.49 | UD | 4.49 | 13.2 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | 1.30 | 3.83 | UD | 3.83 | 14.8 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | 1.60 | 8.99 | UD | 8.99 | 28.1 | ug/m3 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 1.60 | 12.3 | UD | 12.3 | 38.3 | ug/m3 |
| 76-14-2 | Dichlorotetrafluoroethane | 0.88 | 6.15 | UD | 6.15 | 35.0 | ug/m3 |
| 593-60-2 | Bromoethene | 1.20 | 5.25 | UD | 5.25 | 21.9 | ug/m3 |
| 75-65-0 | tert-Butyl alcohol | 1.90 | 5.76 | UDQ | 5.76 | 15.2 | ug/m3 |
| 142-82-5 | Heptane | 1.10 | 4.51 | UD | 4.51 | 20.5 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | 78.9 | 194 | D | 1.70 | 12.3 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethene | 1.40 | 5.55 | UD | 5.55 | 19.8 | ug/m3 |
| 67-64-1 | Acetone | 150 | 356 | D | 5.70 | 11.9 | ug/m3 |
| 75-15-0 | Carbon Disulfide | 1.60 | 4.98 | UD | 4.98 | 15.6 | ug/m3 |
| 1634-04-4 | Methyl tert-Butyl Ether | 1.20 | 4.33 | UD | 4.33 | 18.0 | ug/m3 |
| 75-09-2 | Methylene Chloride | 1.90 | 6.60 | UDQ | 6.60 | 17.4 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethene | 1.90 | 7.53 | UD | 7.53 | 19.8 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | 1.30 | 5.26 | UD | 5.26 | 20.2 | ug/m3 |
| 110-82-7 | Cyclohexane | 2.20 | 7.57 | UD | 7.57 | 17.2 | ug/m3 |
| 78-93-3 | 2-Butanone | 15.1 | 44.5 | D | 3.54 | 14.8 | ug/m3 |
| 56-23-5 | Carbon Tetrachloride | 0.11 | 0.69 | UD | 0.69 | 1.89 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.89 | 3.53 | UD | 3.53 | 19.8 | ug/m3 |
| 67-66-3 | Chloroform | 1.30 | 6.35 | JD | 4.05 | 24.4 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.10 | 0.55 | UD | 0.55 | 1.64 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | 1.00 | 4.67 | UD | 4.67 | 23.4 | ug/m3 |
| 71-43-2 | Benzene | 0.87 | 2.78 | UD | 2.78 | 16.0 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | 0.91 | 3.68 | UD | 3.68 | 20.2 | ug/m3 |
| 79-01-6 | Trichloroethene | 0.17 | 0.91 | UD | 0.91 | 1.61 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | 1.10 | 5.08 | UD | 5.08 | 23.1 | ug/m3 |
| 75-27-4 | Bromodichloromethane | 0.77 | 5.16 | UD | 5.16 | 33.5 | ug/m3 |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.93 | 3.81 | UD | 3.81 | 20.5 | ug/m3 |
| 108-88-3 | Toluene | 1.10 | 4.15 | UD | 4.15 | 18.8 | ug/m3 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B10-3-3242025DL | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-18DL | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042331.D | 10 | | 04/15/25 14:29 | VL041525 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.60 | 2.72 | UD | 2.72 | 22.7 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.64 | 2.91 | UD | 2.91 | 22.7 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.71 | 3.87 | UD | 3.87 | 27.3 | ug/m3 |
| 124-48-1 | Dibromochloromethane | 0.66 | 5.62 | UD | 5.62 | 42.6 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane | 0.72 | 5.53 | UD | 5.53 | 7.69 | ug/m3 |
| 127-18-4 | Tetrachloroethene | 0.15 | 1.02 | UD | 1.02 | 2.03 | ug/m3 |
| 108-90-7 | Chlorobenzene | 0.76 | 3.50 | UD | 3.50 | 23.0 | ug/m3 |
| 100-41-4 | Ethyl Benzene | 1.20 | 5.21 | UD | 5.21 | 21.7 | ug/m3 |
| 179601-23-1 | m/p-Xylene | 2.10 | 9.12 | UD | 9.12 | 43.4 | ug/m3 |
| 95-47-6 | o-Xylene | 1.20 | 5.21 | UD | 5.21 | 21.7 | ug/m3 |
| 100-42-5 | Styrene | 1.10 | 4.68 | UD | 4.68 | 21.3 | ug/m3 |
| 75-25-2 | Bromoform | 0.57 | 5.89 | UD | 5.89 | 51.7 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.11 | 0.76 | UD | 0.76 | 2.06 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | 1.10 | 5.70 | UD | 5.70 | 25.9 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 1.10 | 5.41 | UD | 5.41 | 24.6 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.78 | 3.83 | UD | 3.83 | 24.6 | ug/m3 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.80 | 4.81 | UD | 4.81 | 30.1 | ug/m3 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.53 | 3.19 | UD | 3.19 | 30.1 | ug/m3 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.75 | 4.51 | UD | 4.51 | 30.1 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.85 | 6.31 | UD | 6.31 | 37.1 | ug/m3 |
| 87-68-3 | Hexachloro-1,3-Butadiene | 0.85 | 9.07 | UD | 9.07 | 53.3 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | 1.30 | 2.88 | UD | 2.88 | 11.1 | ug/m3 |
| 91-20-3 | Naphthalene | 0.75 | 3.93 | UD | 3.93 | 5.24 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | 1.20 | 5.90 | UD | 5.90 | 24.6 | ug/m3 |
| 110-54-3 | Hexane | 1.70 | 5.99 | JD | 3.88 | 17.6 | ug/m3 |
| 107-05-1 | Allyl Chloride | 1.50 | 4.70 | UD | 4.70 | 15.7 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | 2.10 | 7.57 | UD | 7.57 | 18.0 | ug/m3 |
| 80-62-6 | Methyl Methacrylate | 0.86 | 3.52 | UD | 3.52 | 20.5 | ug/m3 |
| **SURROGATES** | | | | | | | |
| 460-00-4 | 1-Bromo-4-Fluorobenzene | 9.50 | | | 70 (65) - 130 (135) | 95% | SPK: 10 |
| **INTERNAL STANDARDS** | | | | | | | |
| 74-97-5 | Bromochloromethane | 169000 | | 2.81 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 401000 | | 3.994 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 340000 | | 8.914 | | | |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B10-3-3242025DL | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-18DL | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042331.D | 10 | | 04/15/25 14:29 | VL041525 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
Data File : VL042331.D
Acq On : 15 Apr 2025 14:29
Operator : SY/MD
Sample : Q1665-18DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025DL

Quant Time: Apr 16 01:32:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.810 | 49 | 168977 | 10.000 | ppbv | 0.03 |
| 33) 1,4-Difluorobenzene | 3.994 | 114 | 401158 | 10.000 | ppbv | 0.04 |
| 55) Chlorobenzene-d5 | 8.914 | 117 | 339800 | 10.000 | ppbv | 0.04 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.406 | 95 | 265292 | 9.507 | ppbv | 0.04 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 95.100% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) Propene | 1.495 | 41 | 4953 | 0.424 | ppbv | 90 |
| 13) Ethanol | 1.732 | 45 | 197027 | 178.408 | ppbv | 81 |
| 15) Acetone | 1.848 | 43 | 351816 | 14.887 | ppbv | 96 |
| 19) Isopropyl Alcohol | 1.900 | 45 | 105242 | 7.893 | ppbv # | 35 |
| 26) Hexane | 2.852 | 57 | 4022 | 0.170 | ppbv # | 86 |
| 29) Chloroform | 2.871 | 83 | 4529 | 0.131 | ppbv | 89 |
| 34) 2-Butanone | 2.580 | 43 | 44053 | 1.514 | ppbv | 100 |

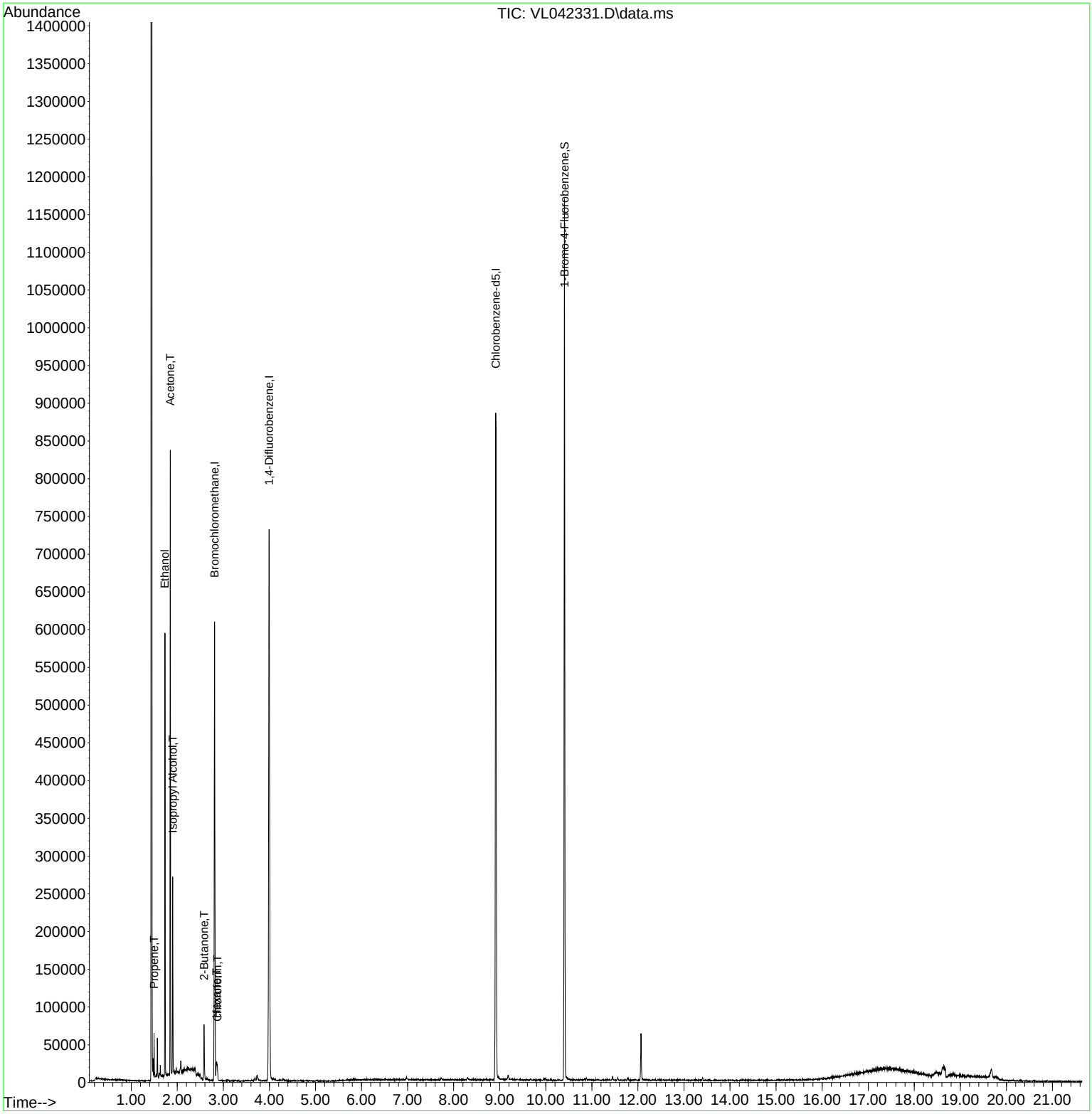
(#) = qualifier out of range (m) = manual integration (+) = signals summed

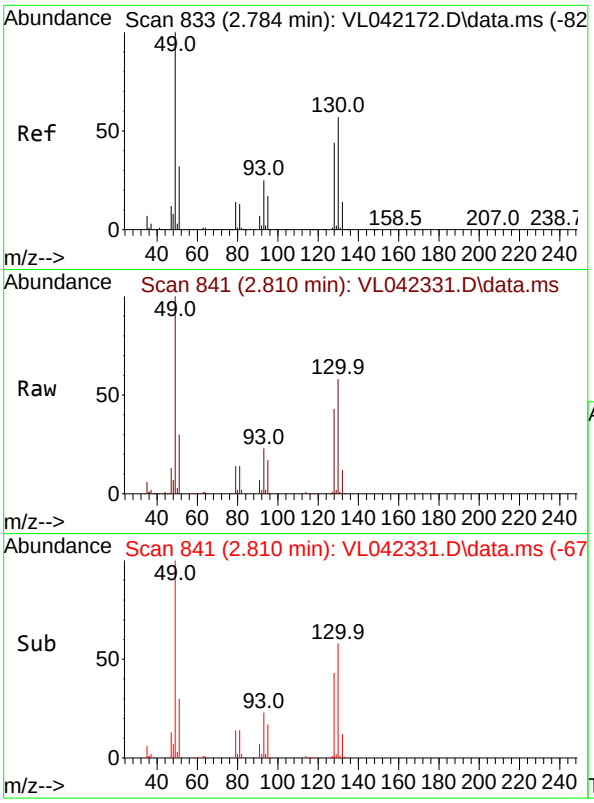
Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
Data File : VL042331.D
Acq On : 15 Apr 2025 14:29
Operator : SY/MD
Sample : Q1665-18DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025DL

Quant Time: Apr 16 01:32:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration



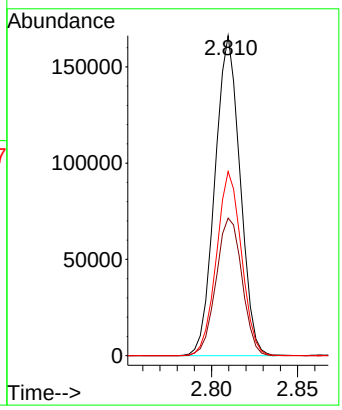


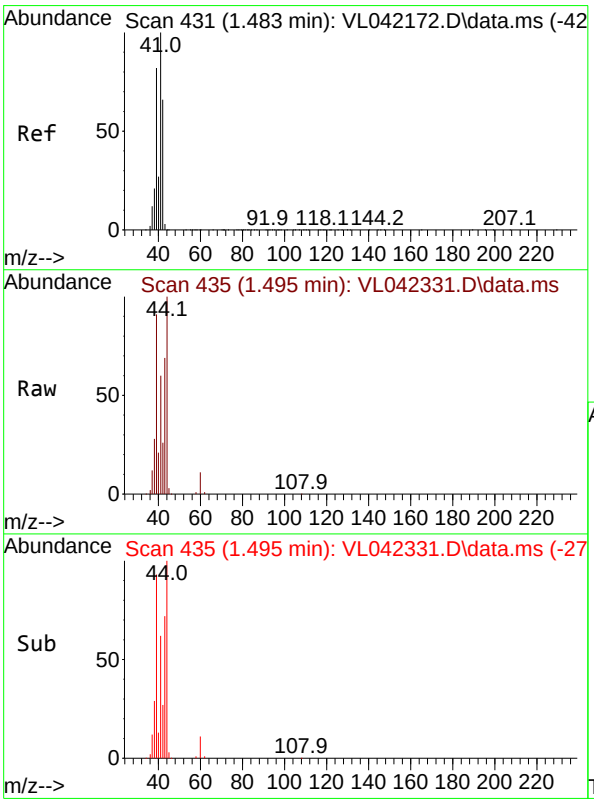

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.810 min Scan# 84
Delta R.T. 0.026 min
Lab File: VL042331.D
Acq: 15 Apr 2025 14:29

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025DL

Tgt Ion: 49 Resp: 168977

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 44.4 | 22.9 | 68.5 |
| 130 | 57.3 | 28.8 | 86.4 |

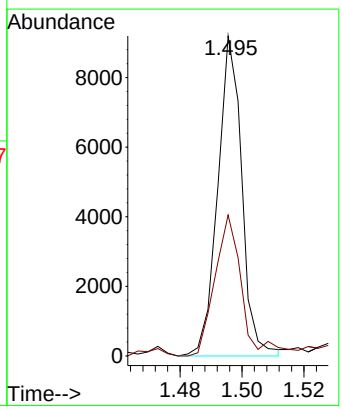


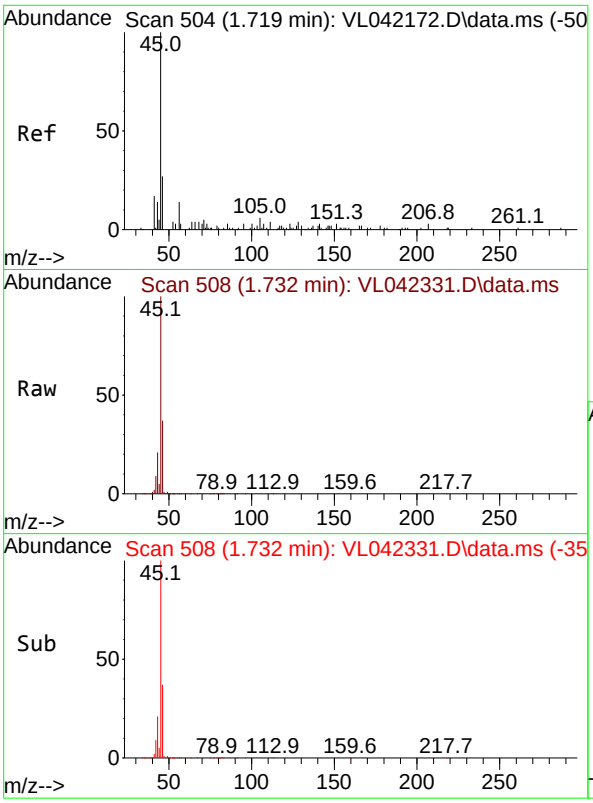




#9
Propene
Concen: 0.424 ppbv
RT: 1.495 min Scan# 435
Delta R.T. 0.013 min
Lab File: VL042331.D
Acq: 15 Apr 2025 14:29

Tgt Ion: 41 Resp: 4953

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 61.5 | 55.4 | 83.2 |



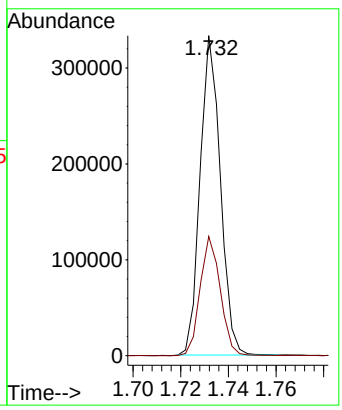


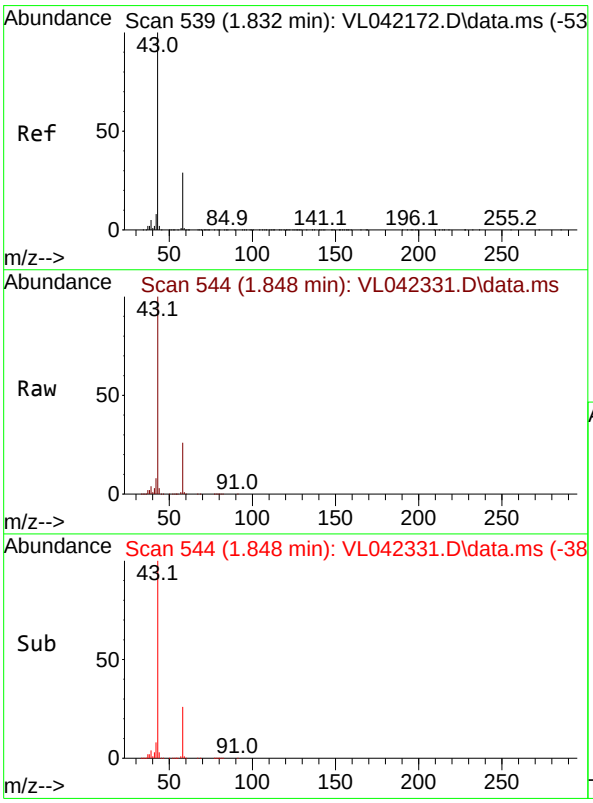

#13
Ethanol
Concen: 178.408 ppbv
RT: 1.732 min Scan# 5
Delta R.T. 0.013 min
Lab File: VL042331.D
Acq: 15 Apr 2025 14:29

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025DL

Tgt Ion: 45 Resp: 197027

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 37.5 | 20.2 | 80.8 |

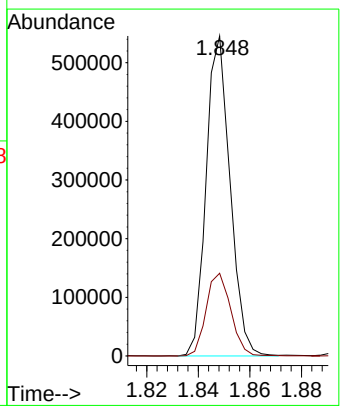


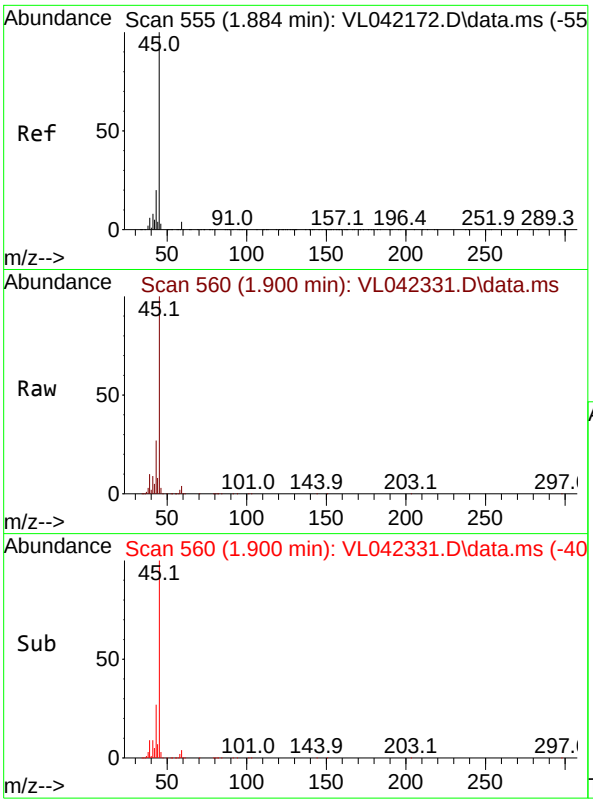




#15
Acetone
Concen: 14.887 ppbv
RT: 1.848 min Scan# 544
Delta R.T. 0.016 min
Lab File: VL042331.D
Acq: 15 Apr 2025 14:29

Tgt Ion: 43 Resp: 351816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 26.7 | 23.2 | 34.8 |



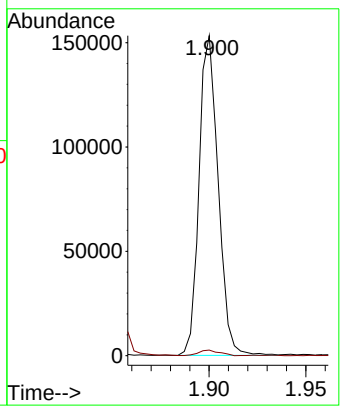


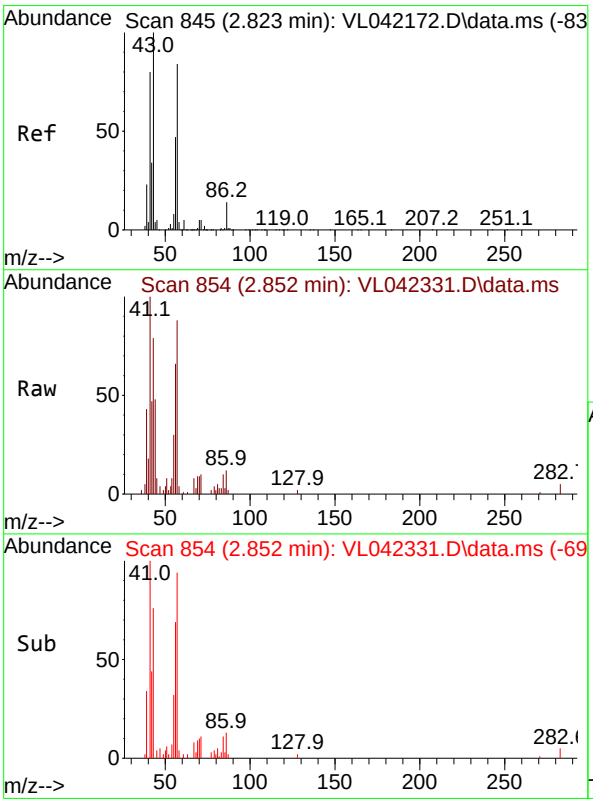

#19
Isopropyl Alcohol
Concen: 7.893 ppbv
RT: 1.900 min Scan# 5
Delta R.T. 0.016 min
Lab File: VL042331.D
Acq: 15 Apr 2025 14:29

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025DL

Tgt Ion: 45 Resp: 105242

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 89.3 | 36.9 | 55.3# |

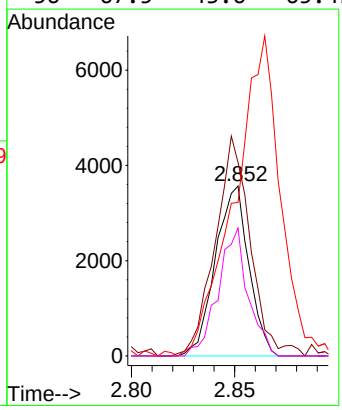


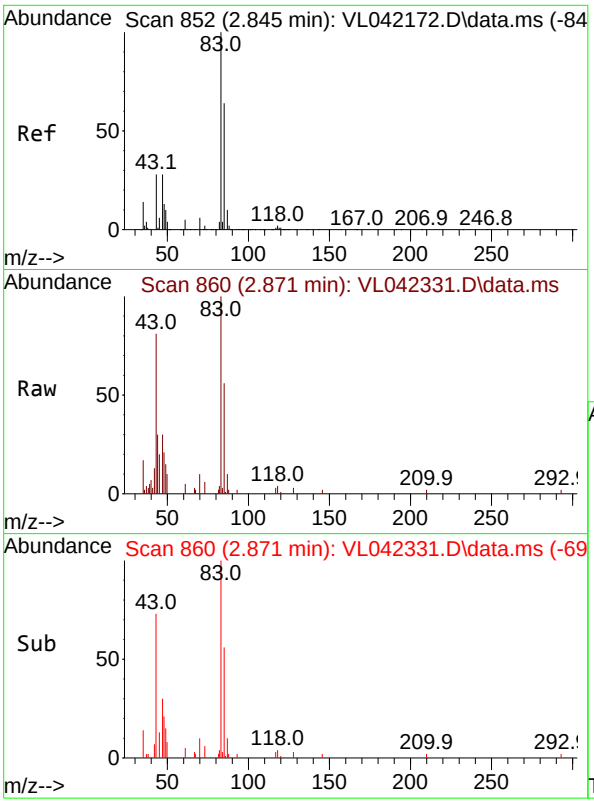




#26
Hexane
Concen: 0.170 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.029 min
Lab File: VL042331.D
Acq: 15 Apr 2025 14:29

Tgt Ion: 57 Resp: 4022

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 141.6 | 76.6 | 114.8# |
| 43 | 262.3 | 207.8 | 311.8 |
| 56 | 67.5 | 43.6 | 65.4# |



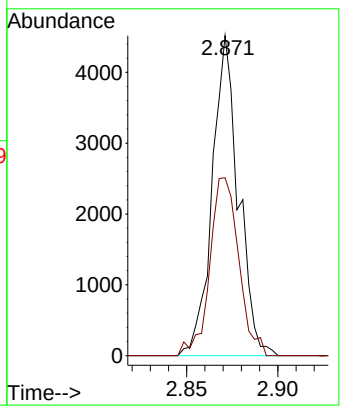


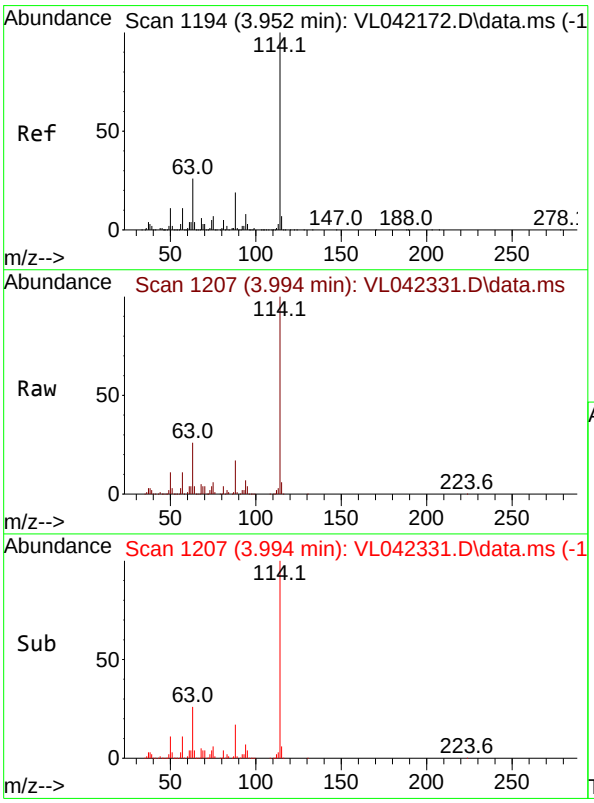

#29
Chloroform
Concen: 0.131 ppbv
RT: 2.871 min Scan# 8
Delta R.T. 0.026 min
Lab File: VL042331.D
Acq: 15 Apr 2025 14:29

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025DL

Tgt Ion: 83 Resp: 4529

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 55.6 | 51.4 | 77.2 |

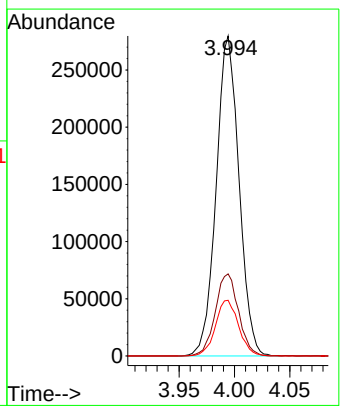


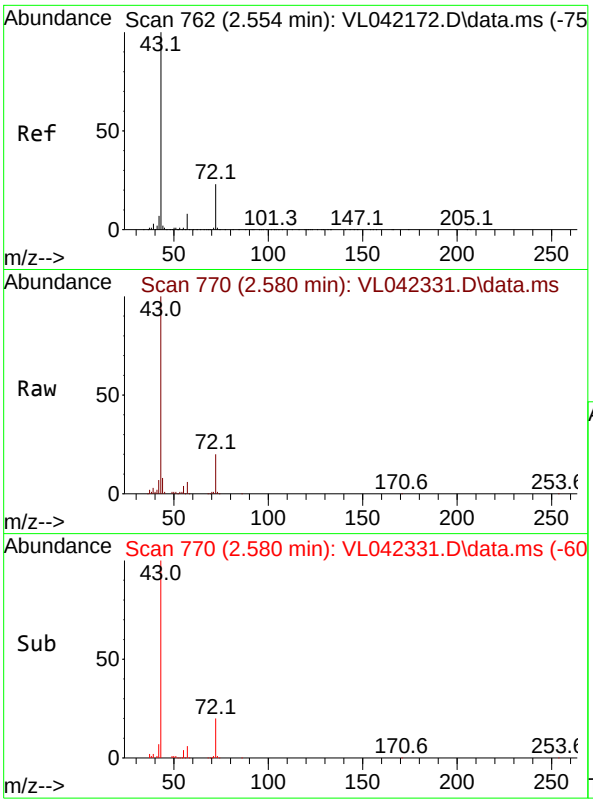




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.994 min Scan# 1207
Delta R.T. 0.042 min
Lab File: VL042331.D
Acq: 15 Apr 2025 14:29

Tgt Ion:114 Resp: 401158

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 26.2 | 20.7 | 31.1 |
| 88 | 17.7 | 15.0 | 22.4 |



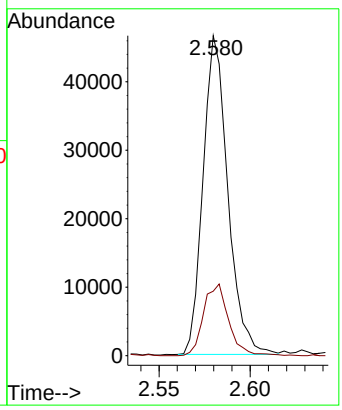


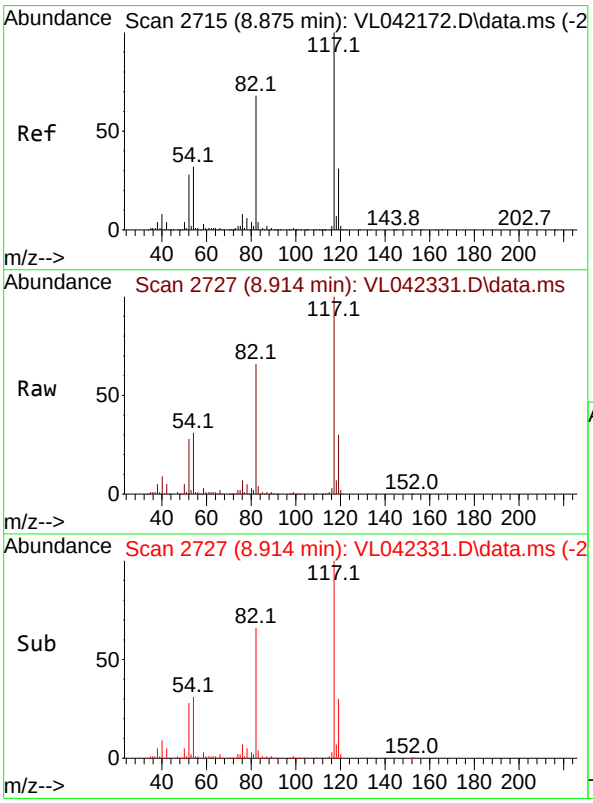

#34
2-Butanone
Concen: 1.514 ppbv
RT: 2.580 min Scan# 7
Delta R.T. 0.026 min
Lab File: VL042331.D
Acq: 15 Apr 2025 14:29

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025DL

Tgt Ion: 43 Resp: 44053

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 22.9 | 18.2 | 27.2 |

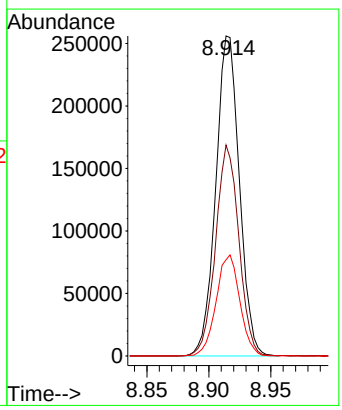


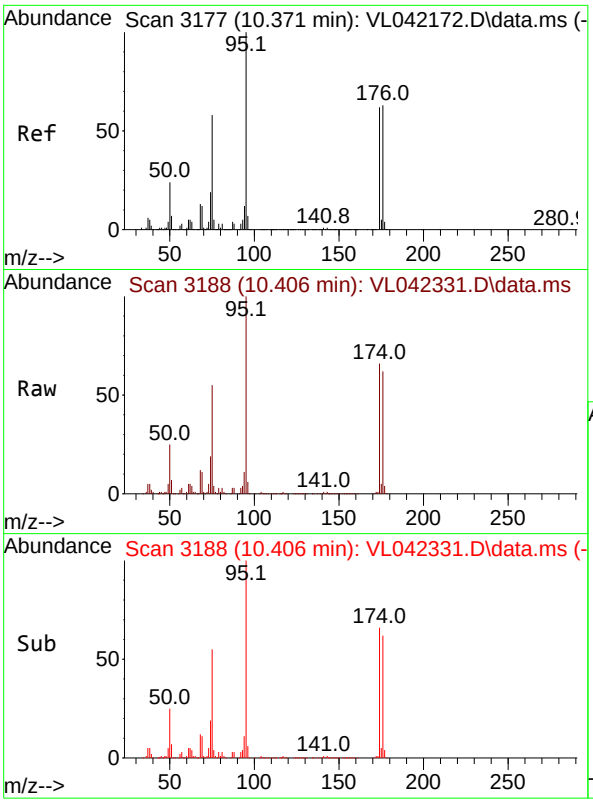




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.914 min Scan# 2727
Delta R.T. 0.039 min
Lab File: VL042331.D
Acq: 15 Apr 2025 14:29

Tgt Ion:117 Resp: 339800

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 65.2 | 55.8 | 83.6 |
| 119 | 31.8 | 25.5 | 38.3 |



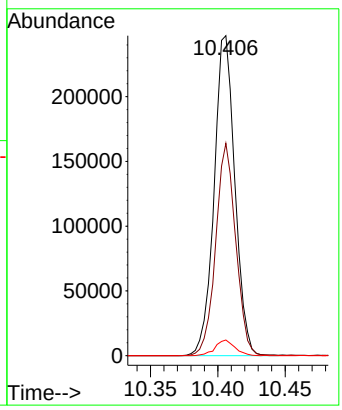



#68
1-Bromo-4-Fluorobenzene
Concen: 9.507 ppbv
RT: 10.406 min Scan# 3
Delta R.T. 0.035 min
Lab File: VL042331.D
Acq: 15 Apr 2025 14:29

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025DL

Tgt Ion: 95 Resp: 265292

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 64.1 | 50.6 | 76.0 |
| 175 | 4.7 | 3.8 | 5.6 |



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B2-2-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-19 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042423.D | 1 | | 04/28/25 13:26 | VL042825 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.46 | 2.27 | J | 1.04 | 2.47 | ug/m3 |
| 64-17-5 | Ethanol | 320 | 603 | EQ | 0.60 | 0.94 | ug/m3 |
| 74-87-3 | Chloromethane | 0.66 | 1.36 | | 0.21 | 1.03 | ug/m3 |
| 75-01-4 | Vinyl Chloride | 0.010 | 0.030 | U | 0.030 | 0.080 | ug/m3 |
| 74-83-9 | Bromomethane | 0.14 | 0.54 | U | 0.54 | 1.94 | ug/m3 |
| 75-00-3 | Chloroethane | 0.17 | 0.45 | U | 0.45 | 1.32 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | 0.13 | 0.38 | U | 0.38 | 1.47 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | 0.22 | 1.24 | J | 0.90 | 2.81 | ug/m3 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.16 | 1.23 | U | 1.23 | 3.83 | ug/m3 |
| 76-14-2 | Dichlorotetrafluoroethane | 0.090 | 0.63 | U | 0.63 | 3.49 | ug/m3 |
| 593-60-2 | Bromoethene | 0.12 | 0.52 | U | 0.52 | 2.19 | ug/m3 |
| 75-65-0 | tert-Butyl alcohol | 2.90 | 8.79 | | 0.58 | 1.52 | ug/m3 |
| 142-82-5 | Heptane | 0.49 | 2.01 | J | 0.45 | 2.05 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | 32.0 | 78.7 | E | 0.17 | 1.23 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethene | 0.14 | 0.56 | U | 0.56 | 1.98 | ug/m3 |
| 67-64-1 | Acetone | 17.2 | 40.9 | E | 0.57 | 1.19 | ug/m3 |
| 75-15-0 | Carbon Disulfide | 0.16 | 0.50 | U | 0.50 | 1.56 | ug/m3 |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.12 | 0.43 | U | 0.43 | 1.80 | ug/m3 |
| 75-09-2 | Methylene Chloride | 0.89 | 3.09 | | 0.66 | 1.74 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.19 | 0.75 | U | 0.75 | 1.98 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | 0.13 | 0.53 | U | 0.53 | 2.02 | ug/m3 |
| 110-82-7 | Cyclohexane | 0.22 | 0.76 | U | 0.76 | 1.72 | ug/m3 |
| 78-93-3 | 2-Butanone | 1.60 | 4.72 | | 0.35 | 1.47 | ug/m3 |
| 56-23-5 | Carbon Tetrachloride | 0.060 | 0.38 | | 0.060 | 0.19 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.090 | 0.36 | U | 0.36 | 1.98 | ug/m3 |
| 67-66-3 | Chloroform | 0.080 | 0.39 | U | 0.39 | 2.44 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.010 | 0.050 | U | 0.050 | 0.16 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | 0.67 | 3.13 | | 0.47 | 2.34 | ug/m3 |
| 71-43-2 | Benzene | 0.45 | 1.44 | J | 0.29 | 1.60 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | 0.46 | 1.86 | J | 0.36 | 2.02 | ug/m3 |
| 79-01-6 | Trichloroethene | 0.020 | 0.11 | U | 0.11 | 0.16 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | 0.11 | 0.51 | U | 0.51 | 2.31 | ug/m3 |
| 75-27-4 | Bromodichloromethane | 0.080 | 0.54 | U | 0.54 | 3.35 | ug/m3 |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.40 | 1.64 | J | 0.37 | 2.05 | ug/m3 |
| 108-88-3 | Toluene | 4.00 | 15.1 | | 0.41 | 1.88 | ug/m3 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B2-2-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-19 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042423.D | 1 | | 04/28/25 13:26 | VL042825 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.060 | 0.27 | U | 0.27 | 2.27 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.060 | 0.27 | U | 0.27 | 2.27 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.070 | 0.38 | U | 0.38 | 2.73 | ug/m3 |
| 124-48-1 | Dibromochloromethane | 0.070 | 0.60 | U | 0.60 | 4.26 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane | 0.070 | 0.54 | U | 0.54 | 0.77 | ug/m3 |
| 127-18-4 | Tetrachloroethene | 0.050 | 0.34 | | 0.14 | 0.20 | ug/m3 |
| 108-90-7 | Chlorobenzene | 0.080 | 0.37 | U | 0.37 | 2.30 | ug/m3 |
| 100-41-4 | Ethyl Benzene | 0.50 | 2.17 | | 0.52 | 2.17 | ug/m3 |
| 179601-23-1 | m/p-Xylene | 1.20 | 5.21 | | 0.91 | 4.34 | ug/m3 |
| 95-47-6 | o-Xylene | 0.50 | 2.17 | | 0.52 | 2.17 | ug/m3 |
| 100-42-5 | Styrene | 0.32 | 1.36 | J | 0.47 | 2.13 | ug/m3 |
| 75-25-2 | Bromoform | 0.060 | 0.62 | U | 0.62 | 5.17 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.010 | 0.070 | U | 0.070 | 0.21 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | 0.11 | 0.57 | U | 0.57 | 2.59 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.14 | 0.69 | J | 0.54 | 2.46 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.39 | 1.92 | J | 0.39 | 2.46 | ug/m3 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.080 | 0.48 | U | 0.48 | 3.01 | ug/m3 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.050 | 0.30 | U | 0.30 | 3.01 | ug/m3 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.080 | 0.48 | U | 0.48 | 3.01 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.090 | 0.67 | U | 0.67 | 3.71 | ug/m3 |
| 87-68-3 | Hexachloro-1,3-Butadiene | 0.090 | 0.96 | U | 0.96 | 5.33 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | 0.13 | 0.29 | U | 0.29 | 1.11 | ug/m3 |
| 91-20-3 | Naphthalene | 0.080 | 0.42 | U | 0.42 | 0.52 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | 0.12 | 0.59 | J | 0.59 | 2.46 | ug/m3 |
| 110-54-3 | Hexane | 2.40 | 8.46 | | 0.39 | 1.76 | ug/m3 |
| 107-05-1 | Allyl Chloride | 0.15 | 0.47 | U | 0.47 | 1.57 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | 0.21 | 0.76 | U | 0.76 | 1.80 | ug/m3 |
| 80-62-6 | Methyl Methacrylate | 0.090 | 0.37 | U | 0.37 | 2.05 | ug/m3 |
| **SURROGATES** | | | | | | | |
| 460-00-4 | 1-Bromo-4-Fluorobenzene | 10.7 | | | 70 (65) - 130 (135) | 107% | SPK: 10 |
| **INTERNAL STANDARDS** | | | | | | | |
| 74-97-5 | Bromochloromethane | 134000 | | 2.784 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 394000 | | 3.953 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 338000 | | 8.879 | | | |
| **TENTITIVE IDENTIFIED COMPOUNDS** | | | | | | | |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B2-2-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-19 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042423.D | 1 | | 04/28/25 13:26 | VL042825 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 115-07-1 | Propene | 4.40 | | J | | 1.49 | ppbv |
| 000106-97-8 | Butane | 24.9 | | J | | 1.62 | ppbv |
| 000071-23-8 | 1-Propanol | 2.70 | | J | | 2.27 | ppbv |
| 000123-72-8 | Butanal | 2.00 | | J | | 2.51 | ppbv |
| 1000420-59-4 | Carbonic acid, monoamide, tert-but | 2.60 | | J | | 6.84 | ppbv |
| 591-78-6 | 2-Hexanone | 0.25 | | J | | 7.44 | ppbv |
| 000106-35-4 | 3-Heptanone | 23.7 | | J | | 9.74 | ppbv |
| 000080-56-8 | .alpha.-Pinene | 2.30 | | J | | 10.9 | ppbv |
| 000123-05-7 | Hexanal, 2-ethyl- | 3.70 | | J | | 10.9 | ppbv |
| 103-65-1 | n-propylbenzene | 0.11 | | J | | 11.0 | ppbv |

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Quantitation Report (LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042423.D
Acq On : 28 Apr 2025 13:26
Operator : SY/MD
Sample : Q1665-19
Misc : 400mL/MSVOA_L
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 29 01:36:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 2.784 | 49 | 134276 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.953 | 114 | 394249 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.879 | 117 | 337638 | 10.000 | ppbv | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.374 | 95 | 295822 | 10.662 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 106.600% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.496 | 85 | 10922 | 0.460 | ppbv | | 97 |
| 4) Chloromethane | 1.532 | 50 | 6178 | 0.658 | ppbv | | 94 |
| 9) Propene | 1.486 | 41 | 45181m | 4.392 | ppbv | | |
| 10) Heptane | 4.969 | 43 | 14174m | 0.490 | ppbv | | |
| 11) Trichlorofluoromethane | 1.875 | 101 | 5064 | 0.224 | ppbv | | 96 |
| 13) Ethanol | 1.719 | 45 | 530749 | 324.570 | ppbv | | 75 |
| 15) Acetone | 1.833 | 43 | 377040m | 17.153 | ppbv | | |
| 17) tert-Butyl alcohol | 2.043 | 59 | 80244 | 2.946 | ppbv | | 100 |
| 19) Isopropyl Alcohol | 1.884 | 45 | 390564 | 31.985 | ppbv | # | 77 |
| 20) Methylene Chloride | 2.059 | 84 | 7626 | 0.886 | ppbv | | 89 |
| 26) Hexane | 2.826 | 57 | 51632 | 2.354 | ppbv | # | 42 |
| 30) Cyclohexane | 3.852 | 84 | 3756m | 0.212 | ppbv | | |
| 34) 2-Butanone | 2.558 | 43 | 49884 | 1.600 | ppbv | | 96 |
| 35) Carbon Tetrachloride | 3.762 | 117 | 2109m | 0.059 | ppbv | | |
| 36) Benzene | 3.655 | 78 | 19225 | 0.452 | ppbv | # | 86 |
| 37) 1,2-Dichloroethane | 3.215 | 62 | 11718 | 0.459 | ppbv | | 97 |
| 44) 2,2,4-Trimethylpentane | 4.632 | 57 | 49004m | 0.667 | ppbv | | |
| 50) 4-Methyl-2-Pentanone | 5.755 | 43 | 20843m | 0.402 | ppbv | | |
| 51) 2-Hexanone | 7.442 | 43 | 11653m | 0.251 | ppbv | | |
| 52) Tetrachloroethene | 8.215 | 164 | 744m | 0.045 | ppbv | | |
| 53) Toluene | 6.930 | 91 | 202018 | 3.959 | ppbv | | 100 |
| 58) Ethyl Benzene | 9.351 | 91 | 33321 | 0.498 | ppbv | | 99 |
| 59) m/p-Xylene | 9.526 | 91 | 66442 | 1.233 | ppbv | | 97 |
| 60) o-Xylene | 9.963 | 91 | 27079 | 0.499 | ppbv | | 97 |
| 61) Styrene | 9.869 | 104 | 8176 | 0.316 | ppbv | | 94 |
| 64) n-propylbenzene | 10.986 | 120 | 2190 | 0.109 | ppbv | | 89 |
| 72) 4-Ethyltoluene | 11.128 | 105 | 8239m | 0.124 | ppbv | | |
| 73) 1,3,5-Trimethylbenzene | 11.203 | 105 | 8221 | 0.140 | ppbv | # | 83 |
| 74) 1,2,4-Trimethylbenzene | 11.533 | 105 | 26441 | 0.387 | ppbv | # | 63 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

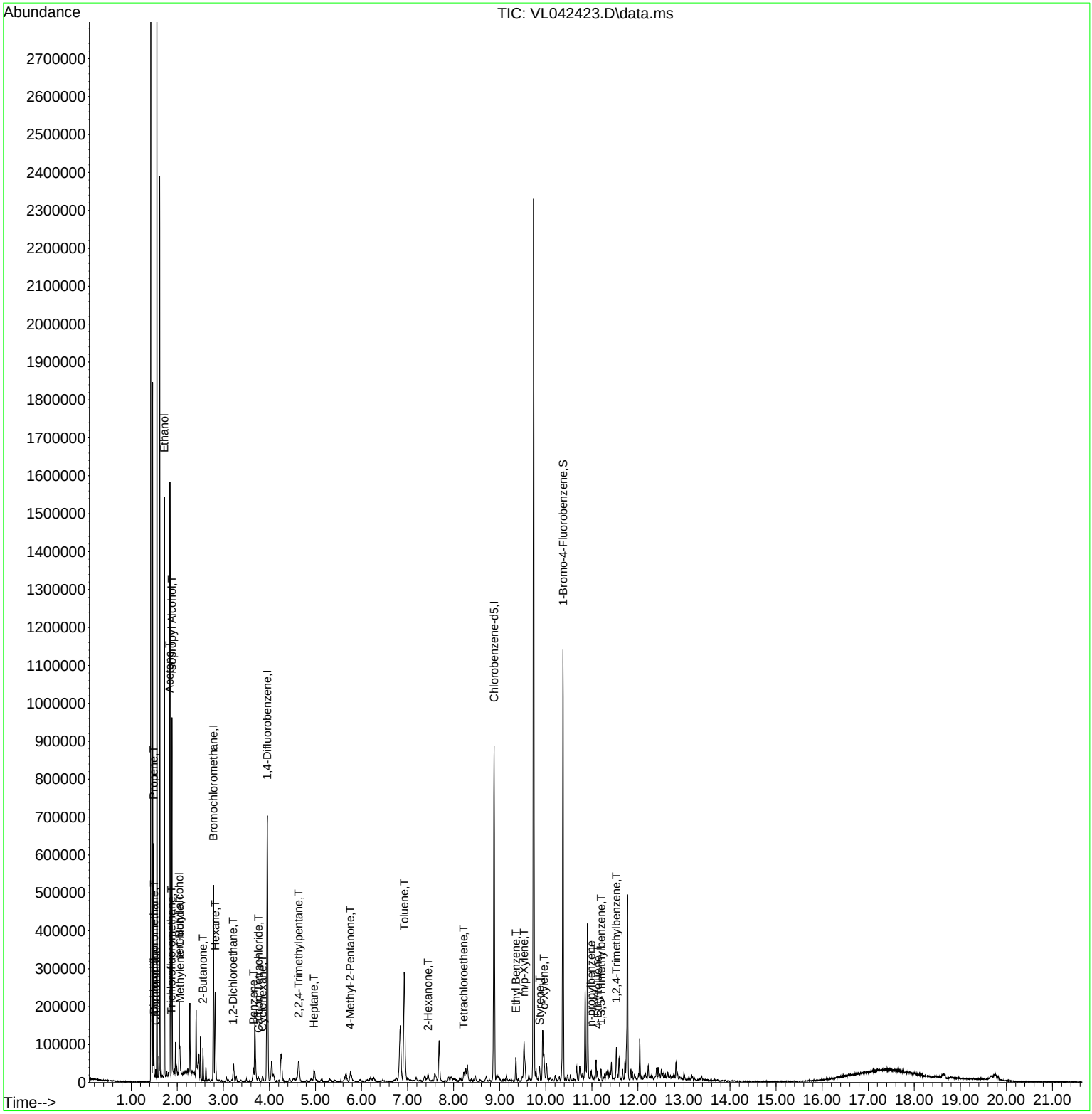
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042423.D
Acq On : 28 Apr 2025 13:26
Operator : SY/MD
Sample : Q1665-19
Misc : 400mL/MSVOA_L
ALS Vial : 10 Sample Multiplier: 1

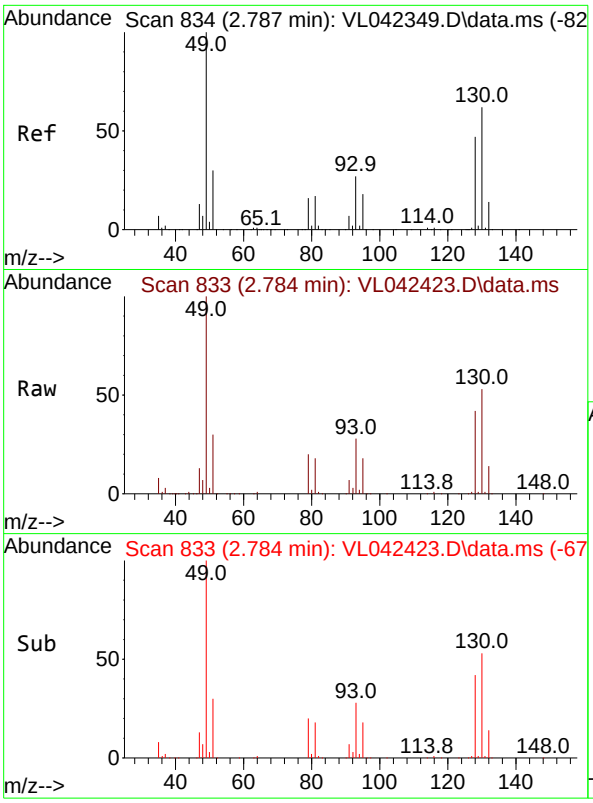
Quant Time: Apr 29 01:36:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

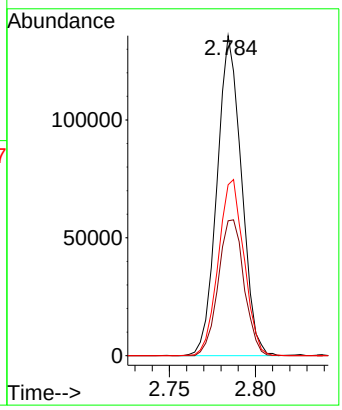





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion: 49 Resp: 13427

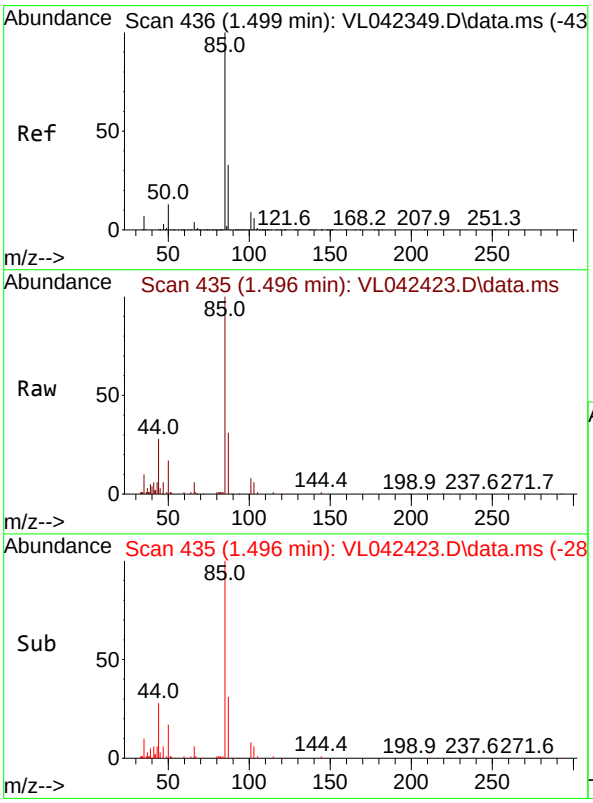
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 44.7 | 22.8 | 68.4 |
| 130 | 57.8 | 29.3 | 88.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

**Manual Integrations**
**APPROVED**

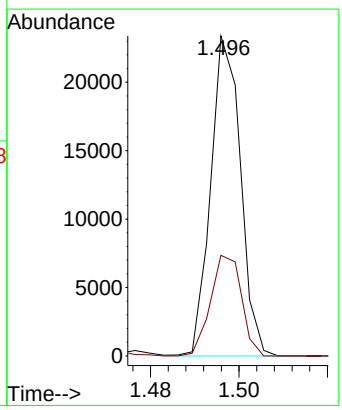
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

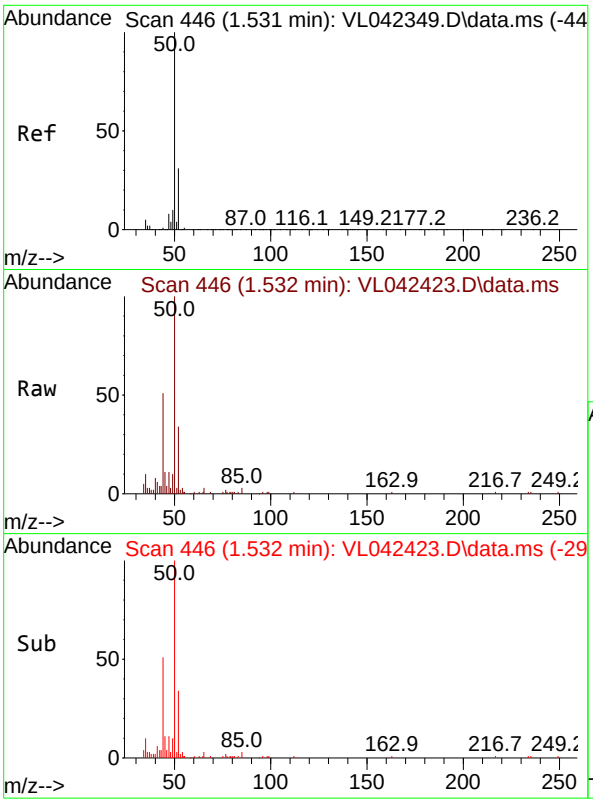



#2
Dichlorodifluoromethane
Concen: 0.460 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion: 85 Resp: 10922

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.5 | 26.6 | 39.8 |

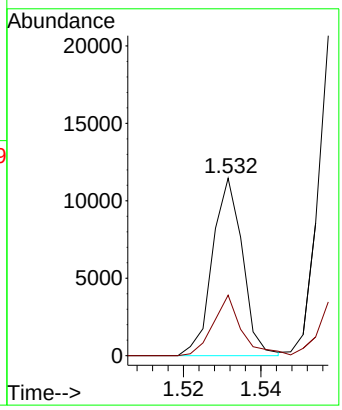





#4
Chloromethane
Concen: 0.658 ppbv
RT: 1.532 min Scan# 44
Delta R.T. 0.000 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion: 50 Resp: 617

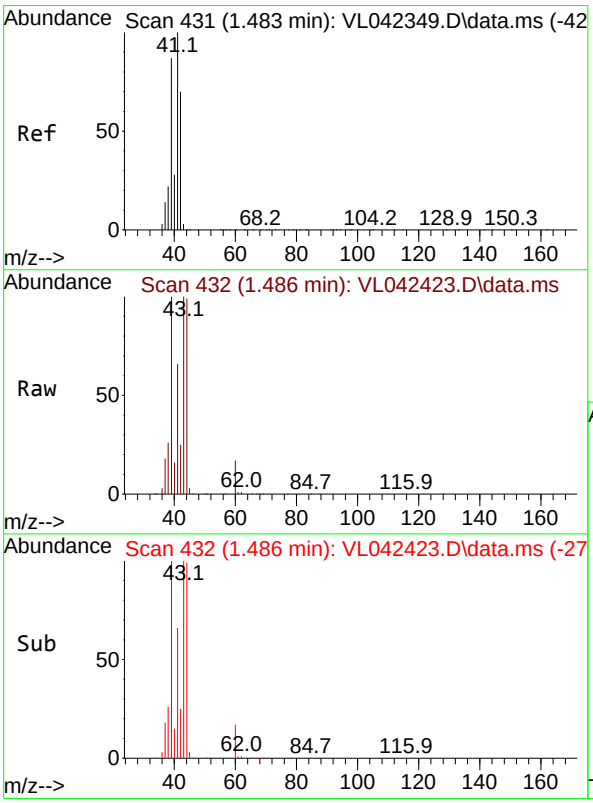
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 34.1 | 24.7 | 37.1 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

**Manual Integrations**
**APPROVED**

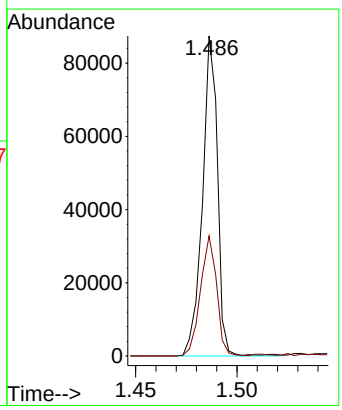
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

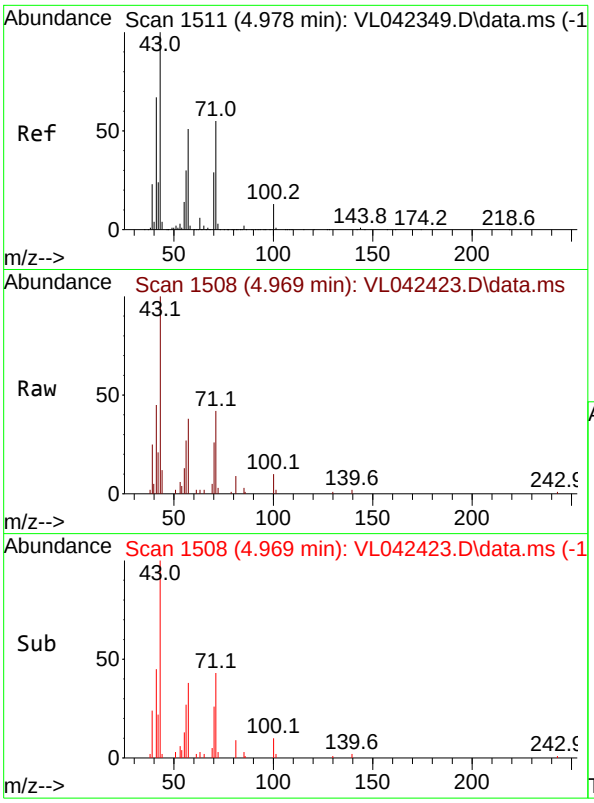



#9
Propene
Concen: 4.392 ppbv m
RT: 1.486 min Scan# 432
Delta R.T. 0.004 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion: 41 Resp: 45181

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 579.0 | 56.2 | 84.4# |

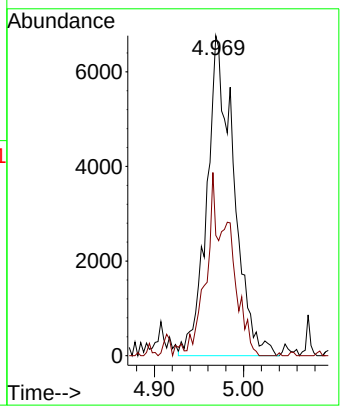





#10
Heptane
Concen: 0.490 ppbv m
RT: 4.969 min Scan# 1
Delta R.T. -0.009 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion: 43 Resp: 1417

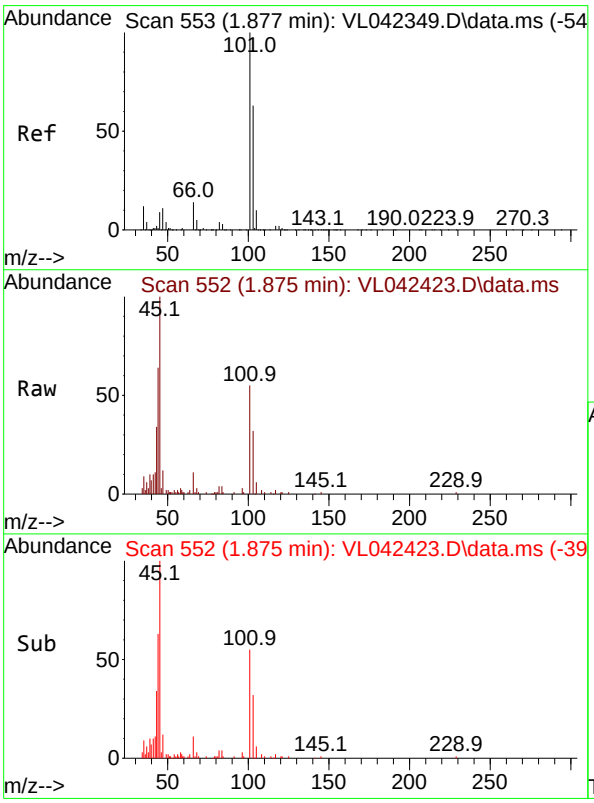
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 52.9 | 39.9 | 59.9 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

**Manual Integrations**
**APPROVED**

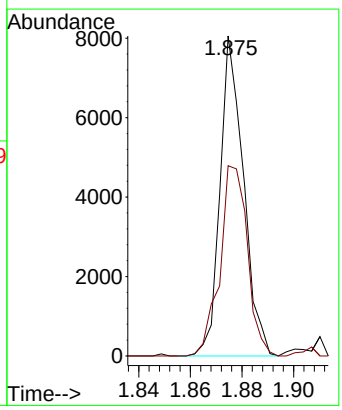
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

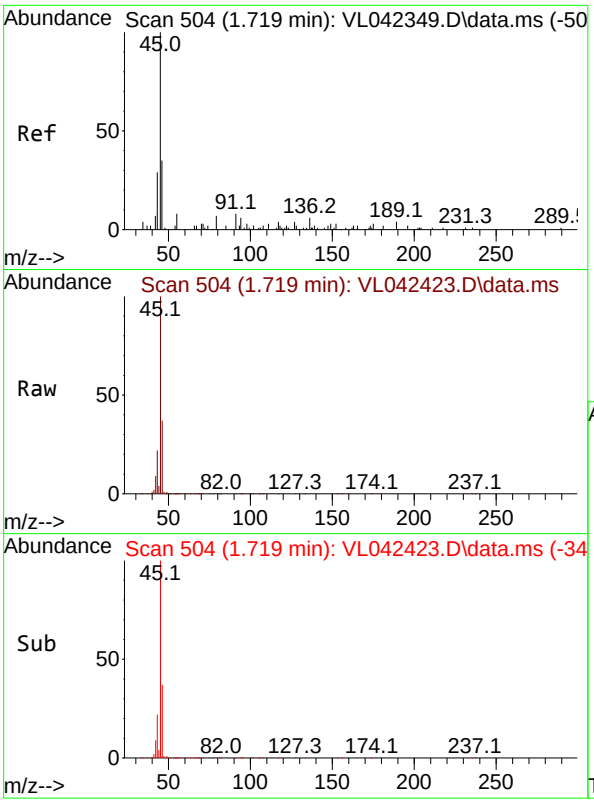



#11
Trichlorofluoromethane
Concen: 0.224 ppbv
RT: 1.875 min Scan# 552
Delta R.T. -0.003 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion:101 Resp: 5064

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 59.4 | 50.1 | 75.1 |

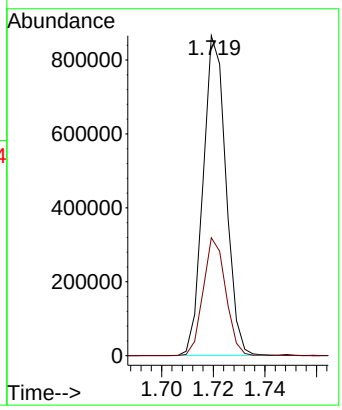





#13
Ethanol
Concen: 324.570 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion: 45 Resp: 53074

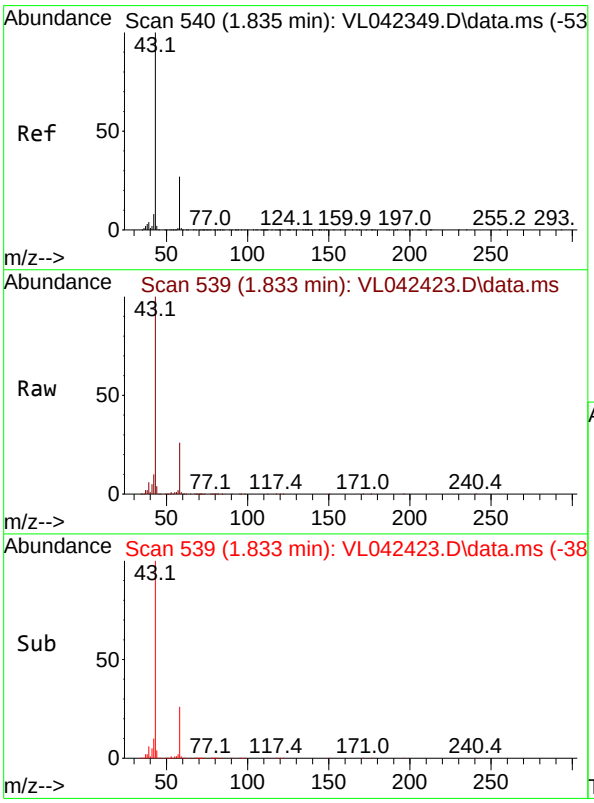
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 36.6 | 21.9 | 87.7 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

**Manual Integrations**
**APPROVED**

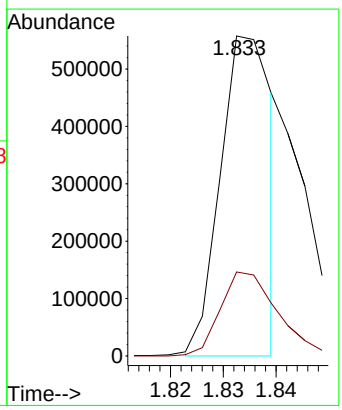
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

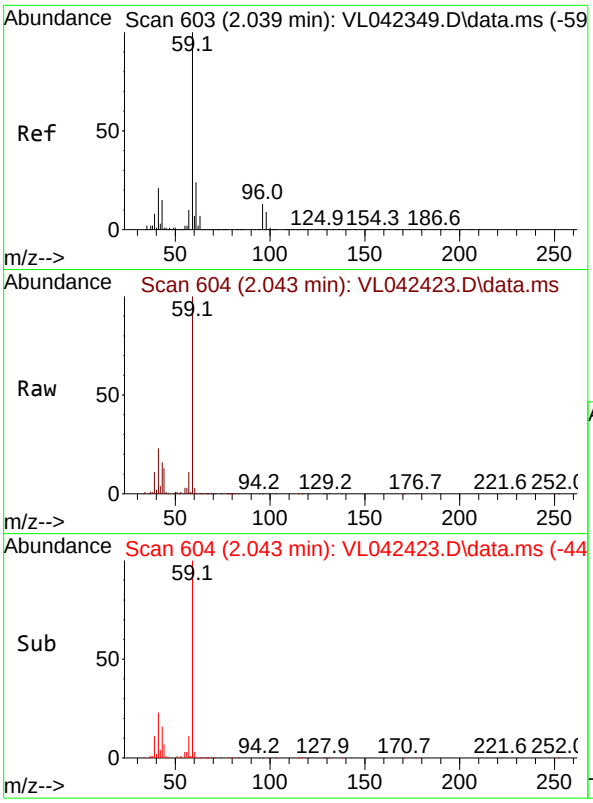



#15
Acetone
Concen: 17.153 ppbv m
RT: 1.833 min Scan# 539
Delta R.T. -0.003 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion: 43 Resp: 377040

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 29.4 | 22.4 | 33.6 |

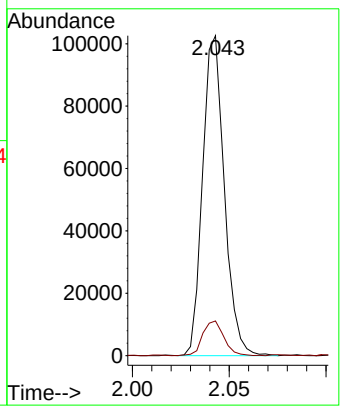





#17
tert-Butyl alcohol
Concen: 2.946 ppbv
RT: 2.043 min Scan# 6(
Delta R.T. 0.004 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion: 59 Resp: 8024

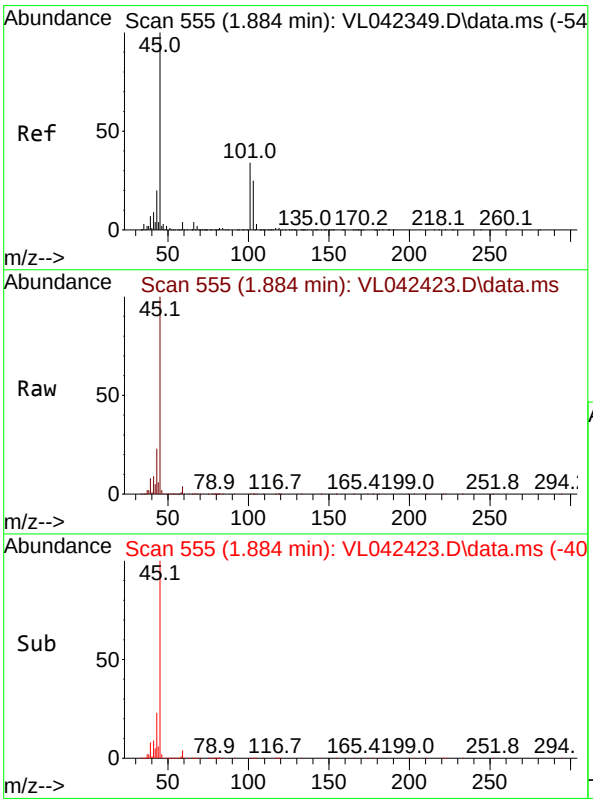
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 11.0 | 8.7 | 13.1 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

**Manual Integrations**
**APPROVED**

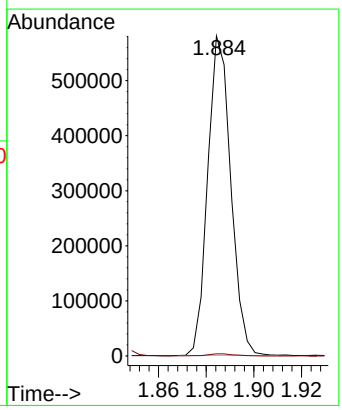
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

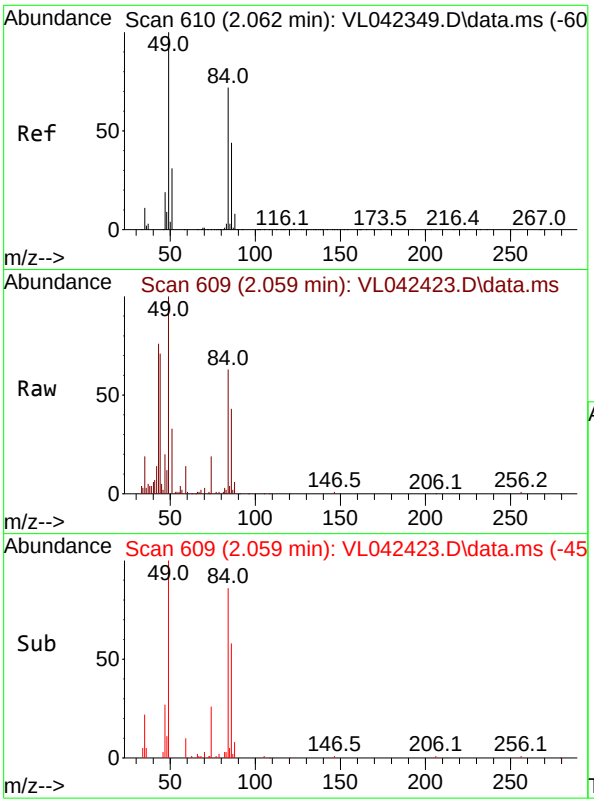



#19
Isopropyl Alcohol
Concen: 31.985 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.000 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion: 45 Resp: 390564

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 28.3 | 34.5 | 51.7# |

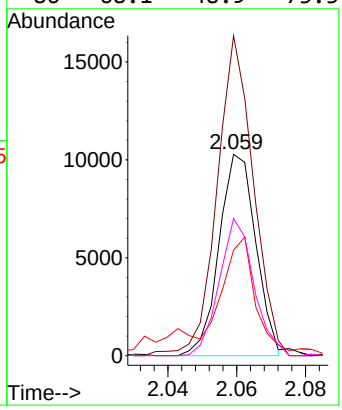





#20
Methylene Chloride
Concen: 0.886 ppbv
RT: 2.059 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion: 84 Resp: 762

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 156.3 | 111.6 | 167.4 |
| 51 | 47.0 | 35.1 | 52.7 |
| 86 | 68.1 | 48.9 | 73.3 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

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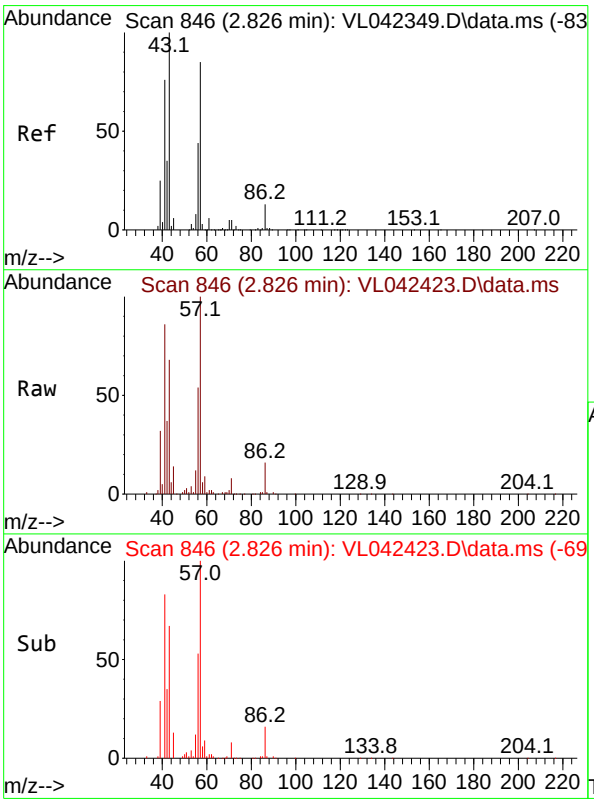
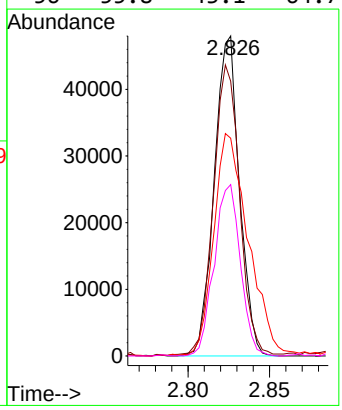
Supervised By :Mahesh Dadoda 04/30/2025

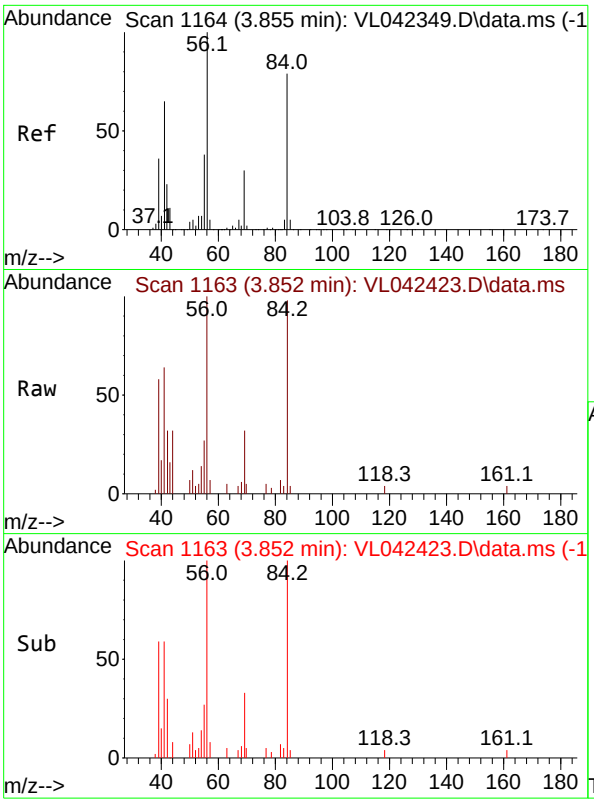



#26
Hexane
Concen: 2.354 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion: 57 Resp: 51632

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 95.5 | 77.9 | 116.9 |
| 43 | 97.6 | 208.4 | 312.6# |
| 56 | 55.8 | 43.1 | 64.7 |

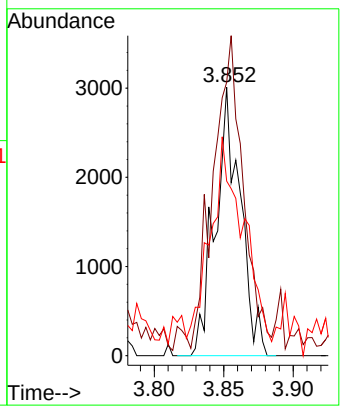





#30
Cyclohexane
Concen: 0.212 ppbv m
RT: 3.852 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion: 84 Resp: 375

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 147.4 | 101.0 | 151.4 |
| 41 | 101.7 | 67.4 | 101.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

**Manual Integrations**
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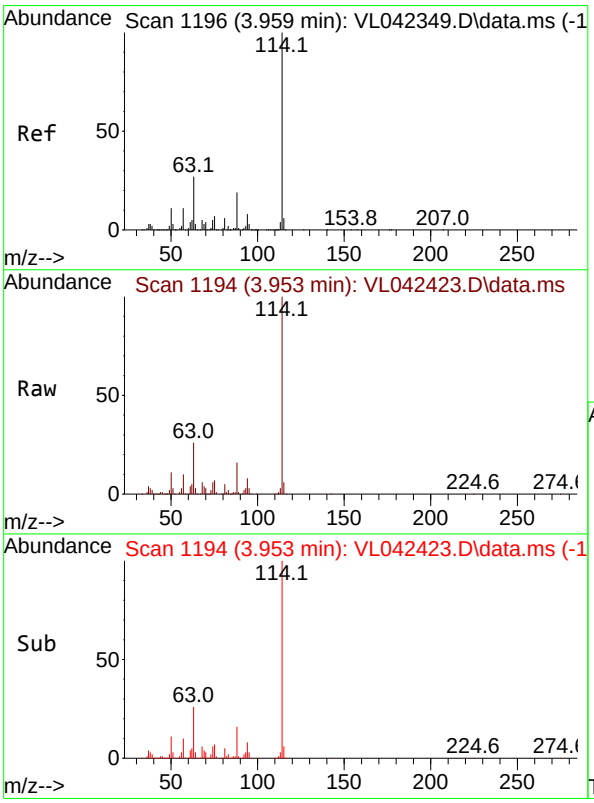
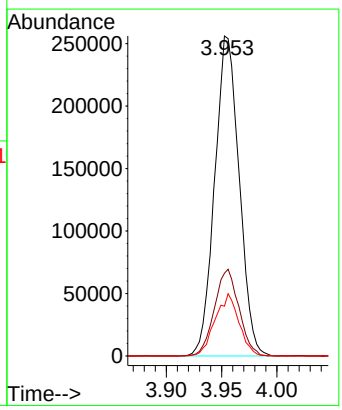
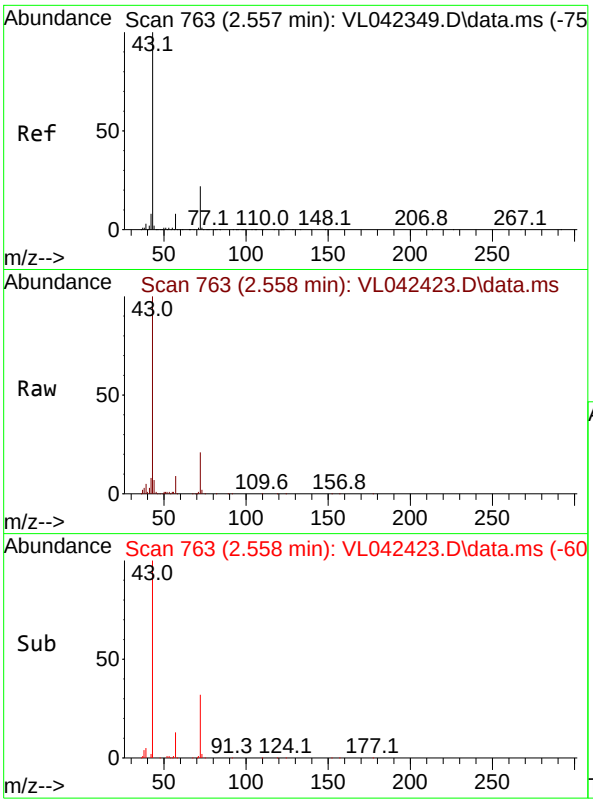



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.953 min Scan# 1194
Delta R.T. -0.006 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion:114 Resp: 394249

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 27.1 | 21.8 | 32.6 |
| 88 | 19.0 | 15.5 | 23.3 |






#34
2-Butanone
Concen: 1.600 ppbv
RT: 2.558 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion: 43 Resp: 4988

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 20.7 | 18.2 | 27.2 |

**Instrument :**
MSVOA_L
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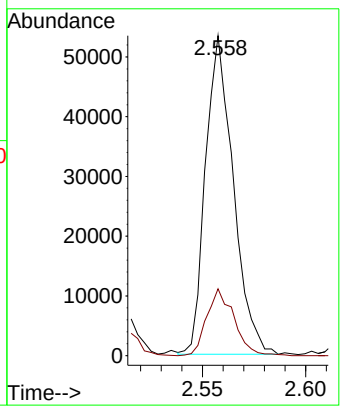
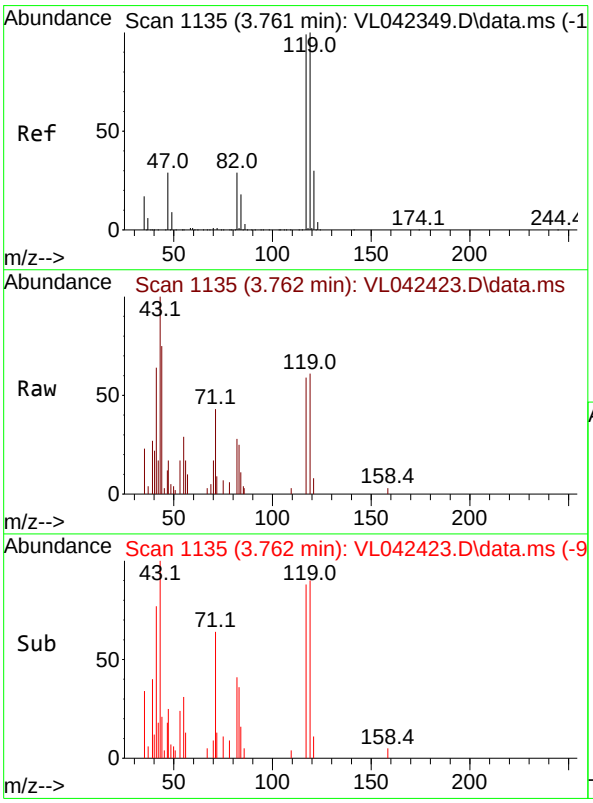
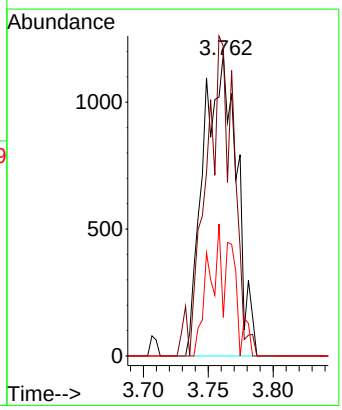


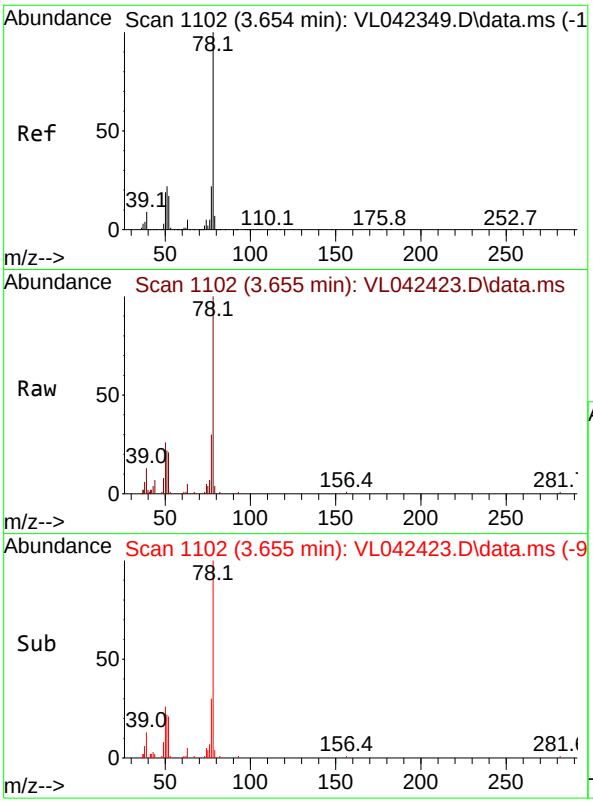




#35
Carbon Tetrachloride
Concen: 0.059 ppbv m
RT: 3.762 min Scan# 1135
Delta R.T. 0.000 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion:117 Resp: 2109

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 102.5 | 80.5 | 120.7 |
| 121 | 12.8 | 24.2 | 36.2# |

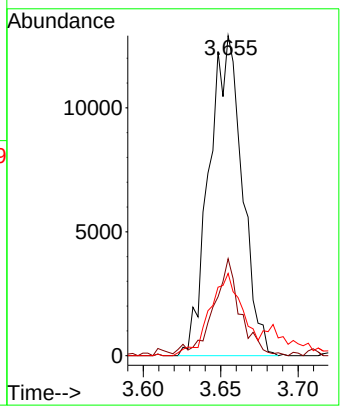





#36
Benzene
Concen: 0.452 ppbv
RT: 3.655 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion: 78 Resp: 1922

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 29.4 | 17.4 | 26.0# |
| 50 | 24.8 | 15.5 | 23.3# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

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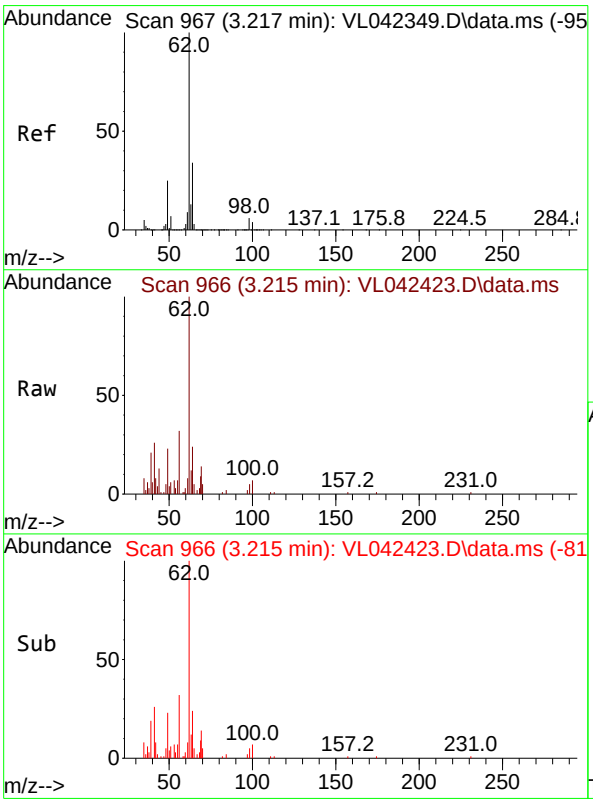
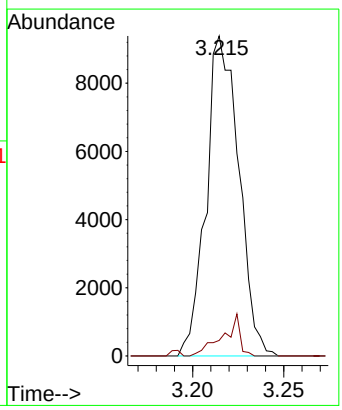
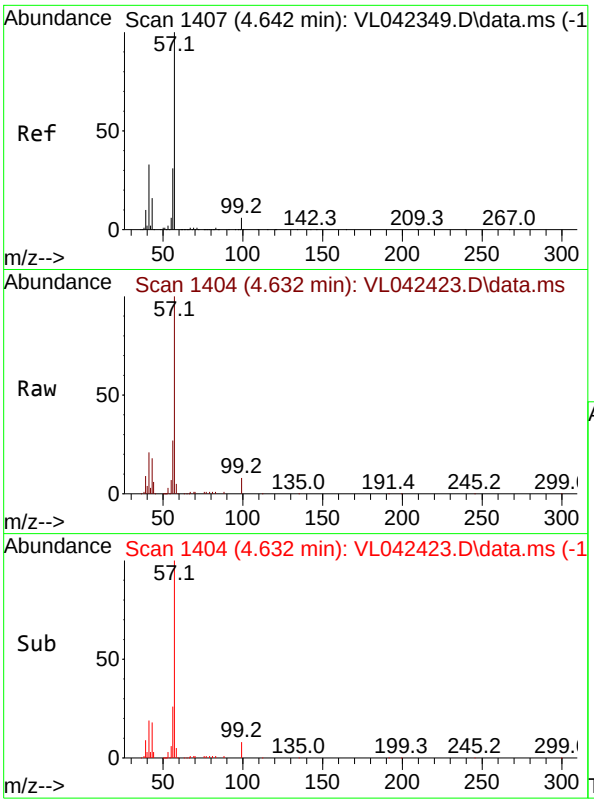



#37
1,2-Dichloroethane
Concen: 0.459 ppbv
RT: 3.215 min Scan# 966
Delta R.T. -0.003 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion: 62 Resp: 11718

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 7.4 | 5.1 | 7.7 |

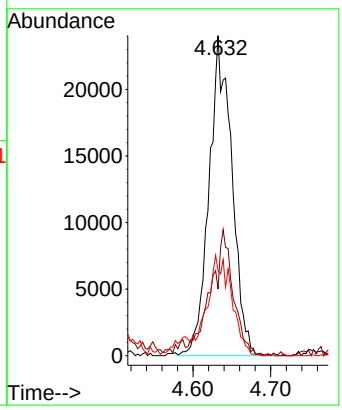





#44
2,2,4-Trimethylpentane
Concen: 0.667 ppbv m
RT: 4.632 min Scan# 14
Delta R.T. -0.009 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion: 57 Resp: 4900

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 0.0 | 27.2 | 40.8 |
| 56 | 38.1 | 25.7 | 38.5 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

**Manual Integrations**
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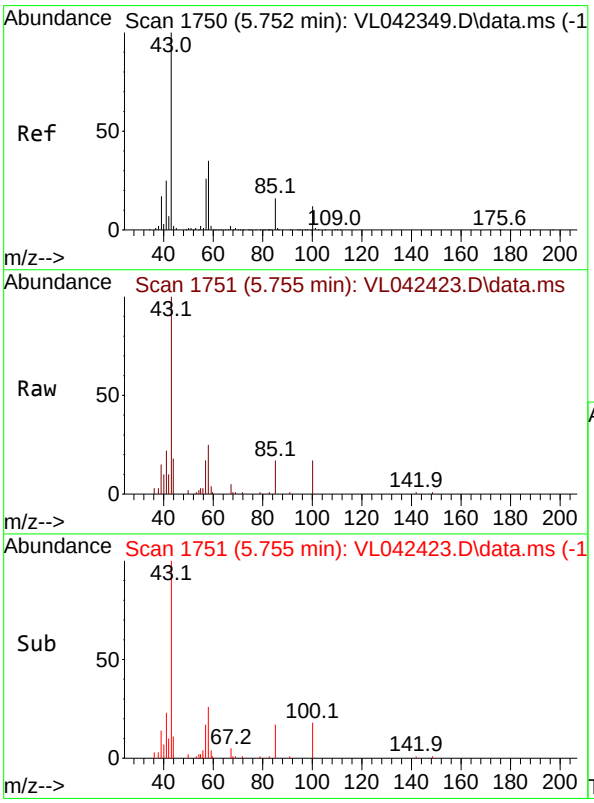
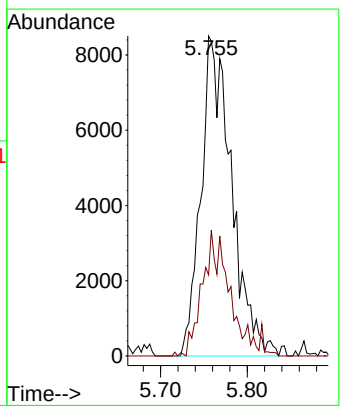
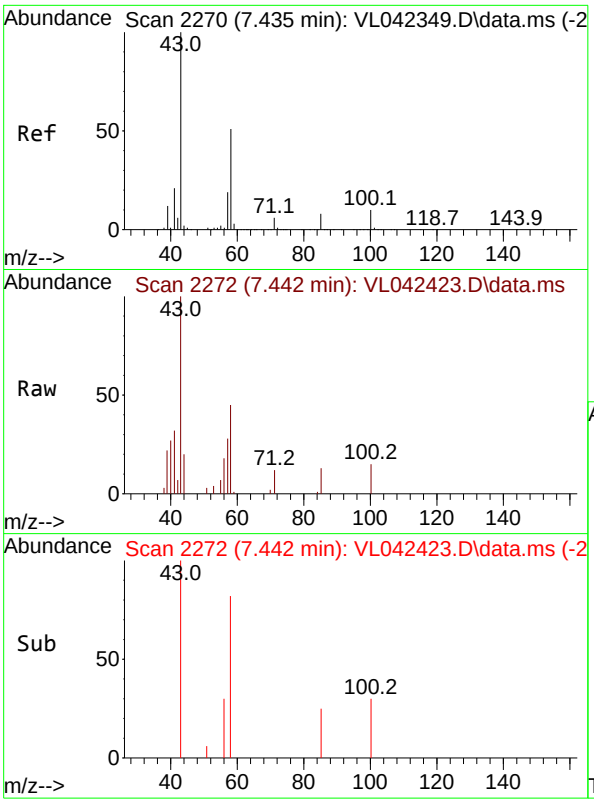



#50
4-Methyl-2-Pentanone
Concen: 0.402 ppbv m
RT: 5.755 min Scan# 1751
Delta R.T. 0.004 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion: 43 Resp: 20843

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 35.4 | 28.6 | 43.0 |

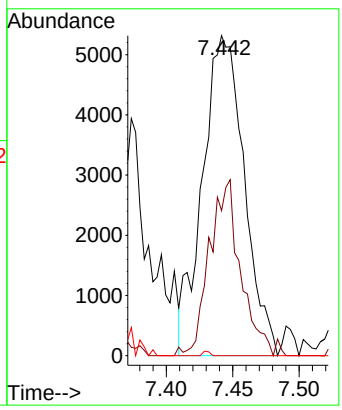





#51
2-Hexanone
Concen: 0.251 ppbv m
RT: 7.442 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion: 43 Resp: 1165

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 0.0 | 40.2 | 60.4# |
| 98 | 0.2 | 0.1 | 0.1# |

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MSVOA_L
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IA-B2-2-3242025

**Manual Integrations**
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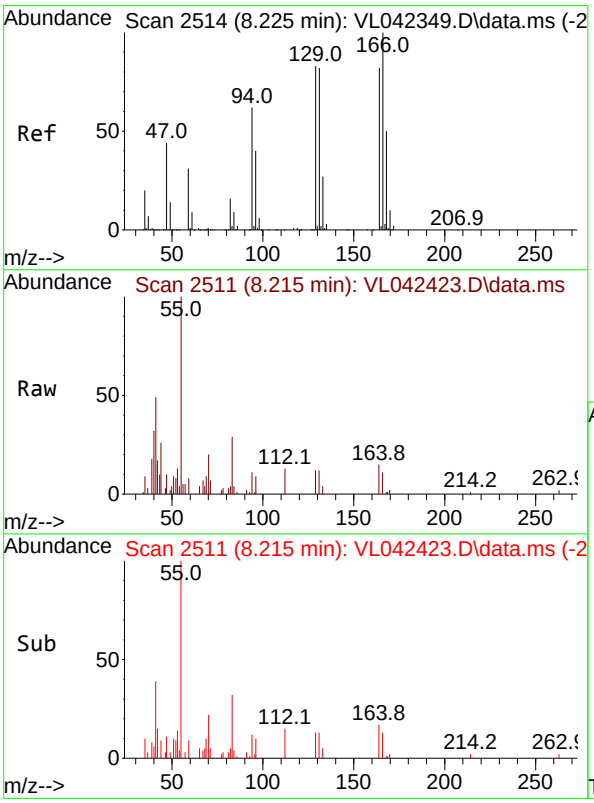
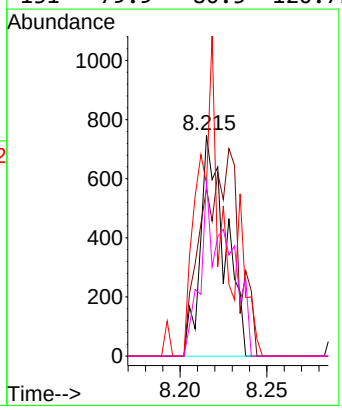
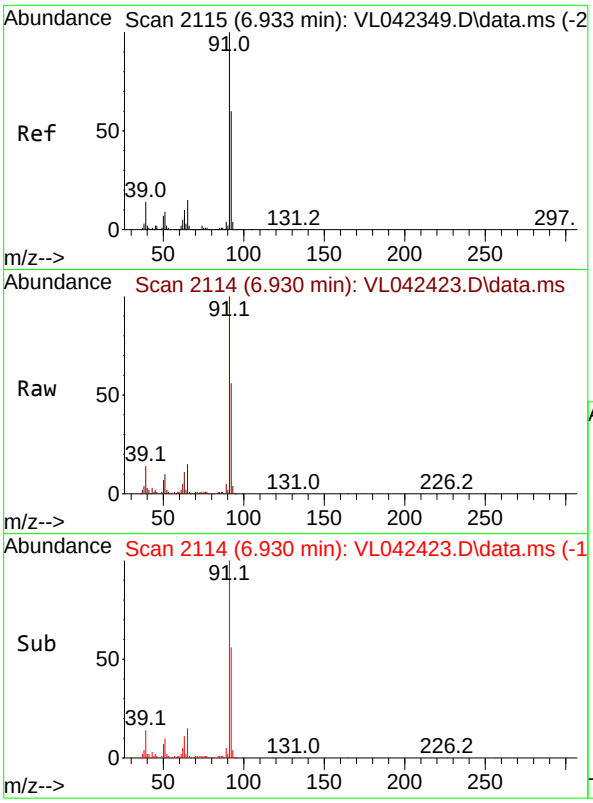



#52
Tetrachloroethene
Concen: 0.045 ppbv m
RT: 8.215 min Scan# 2511
Delta R.T. -0.009 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion:164 Resp: 744

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 75.9 | 98.2 | 147.2# |
| 129 | 78.0 | 81.8 | 122.8# |
| 131 | 79.9 | 80.5 | 120.7# |

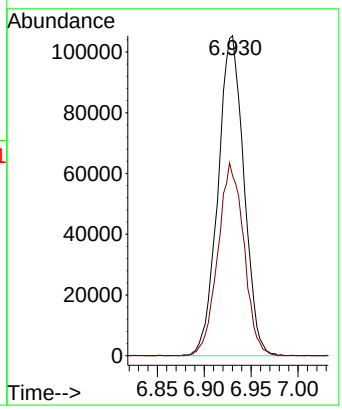





#53
Toluene
Concen: 3.959 ppbv
RT: 6.930 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion: 91 Resp: 20201

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 60.6 | 48.2 | 72.4 |

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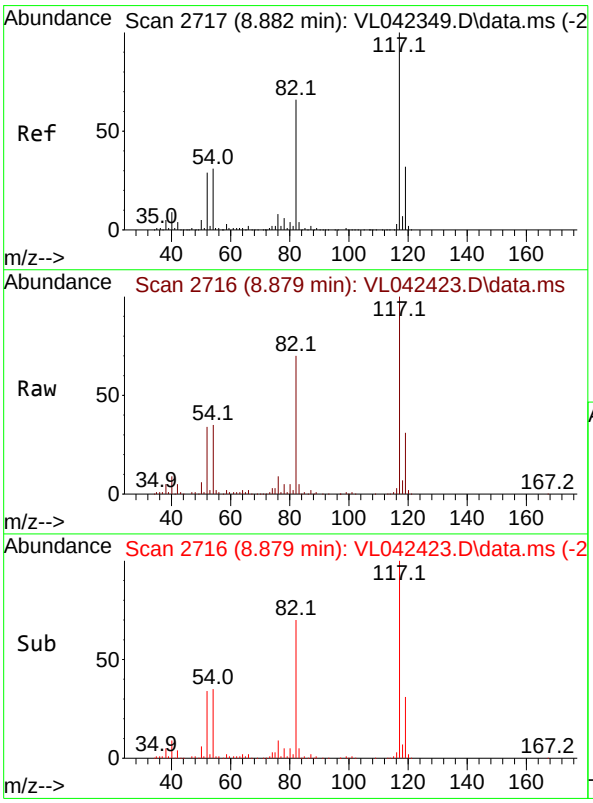
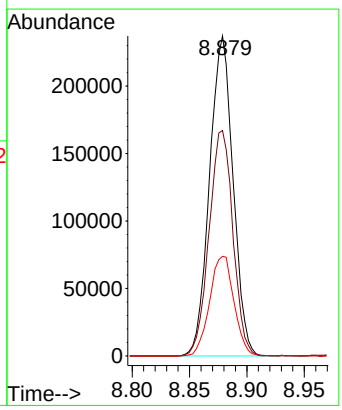
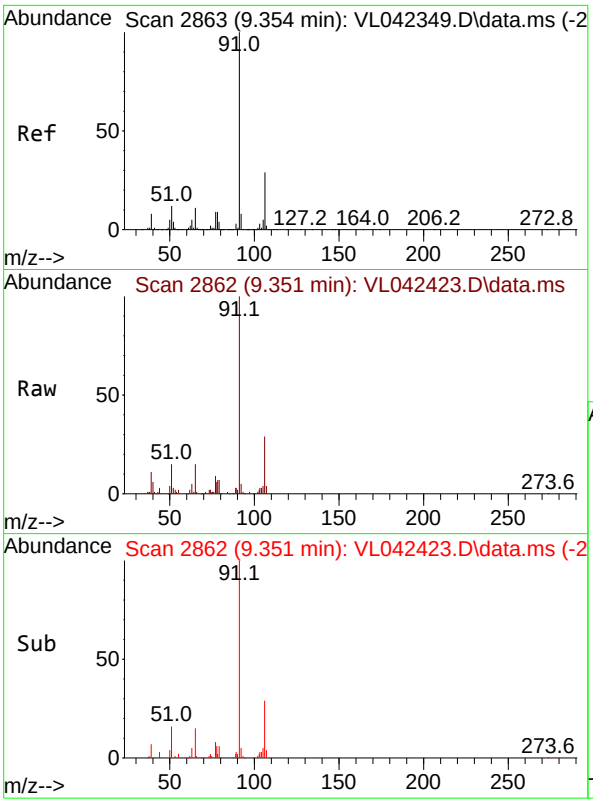



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 2716
Delta R.T. -0.003 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion:117 Resp: 337638

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 71.5 | 57.8 | 86.6 |
| 119 | 32.3 | 25.2 | 37.8 |






#58
Ethyl Benzene
Concen: 0.498 ppbv
RT: 9.351 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion: 91 Resp: 3332

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.3 | 23.0 | 34.4 |

**Instrument :**
MSVOA_L
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IA-B2-2-3242025

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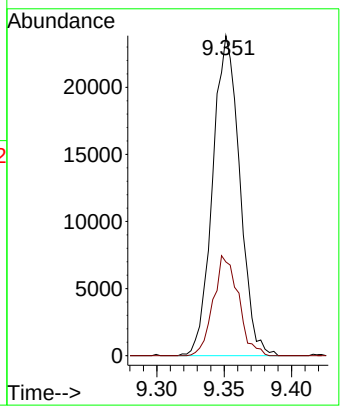
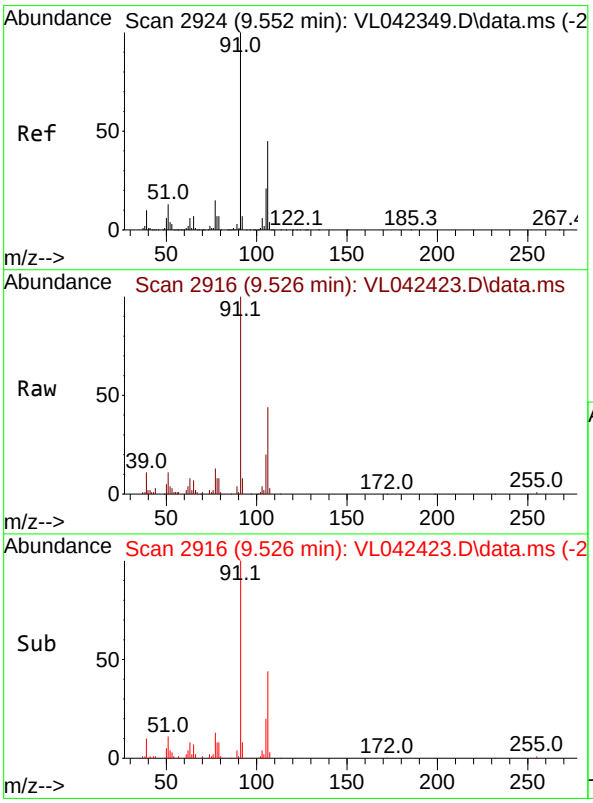
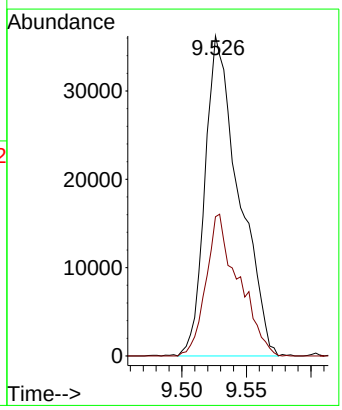


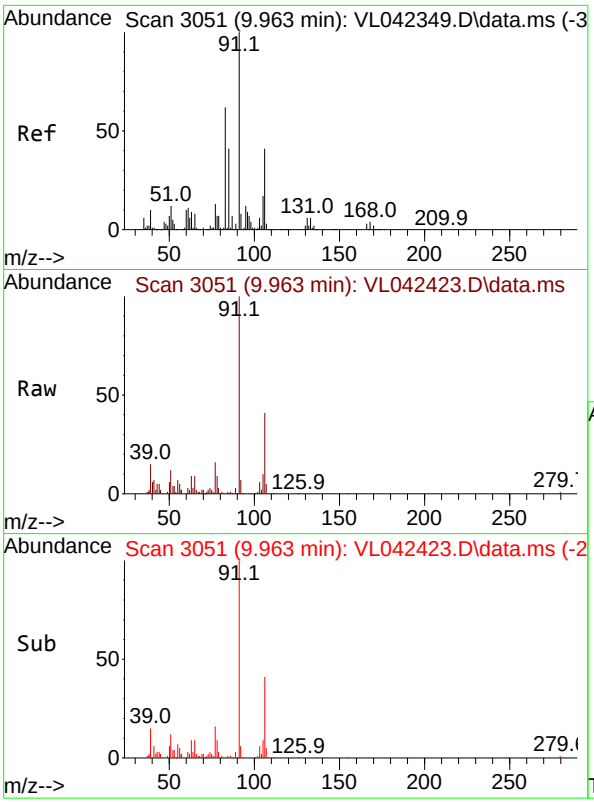




#59
m/p-Xylene
Concen: 1.233 ppbv
RT: 9.526 min Scan# 2916
Delta R.T. -0.026 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion: 91 Resp: 66442

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 42.5 | 35.4 | 53.2 |

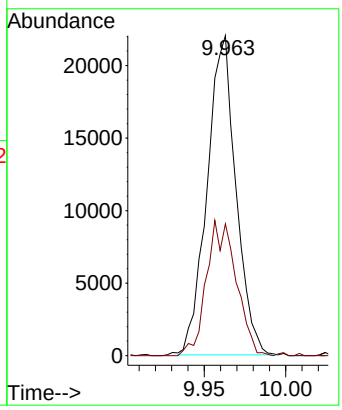





#60
o-Xylene
Concen: 0.499 ppbv
RT: 9.963 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion: 91 Resp: 2707

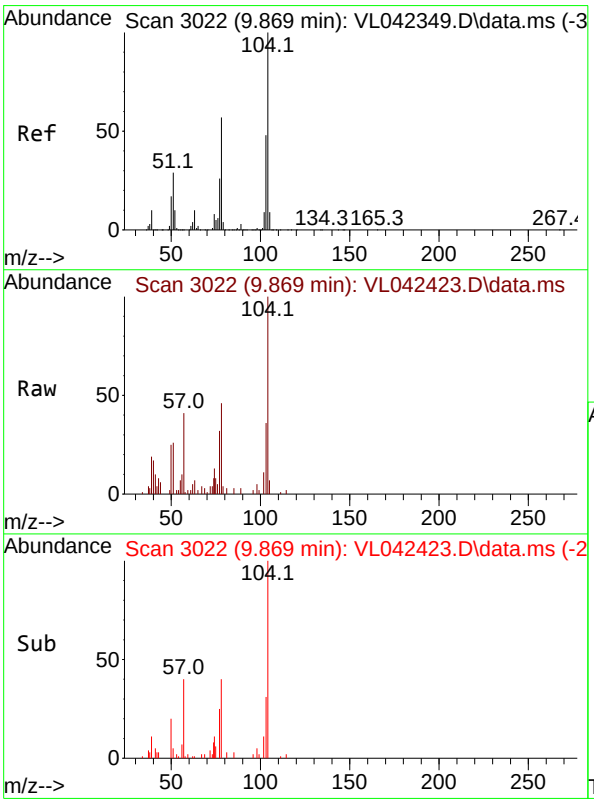
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 43.9 | 21.1 | 63.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

**Manual Integrations**
**APPROVED**

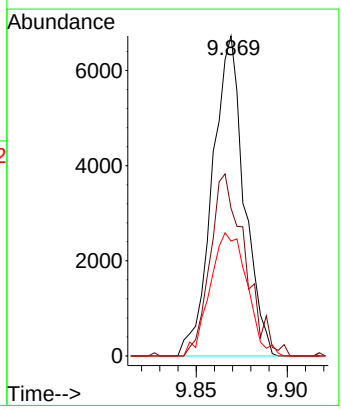
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

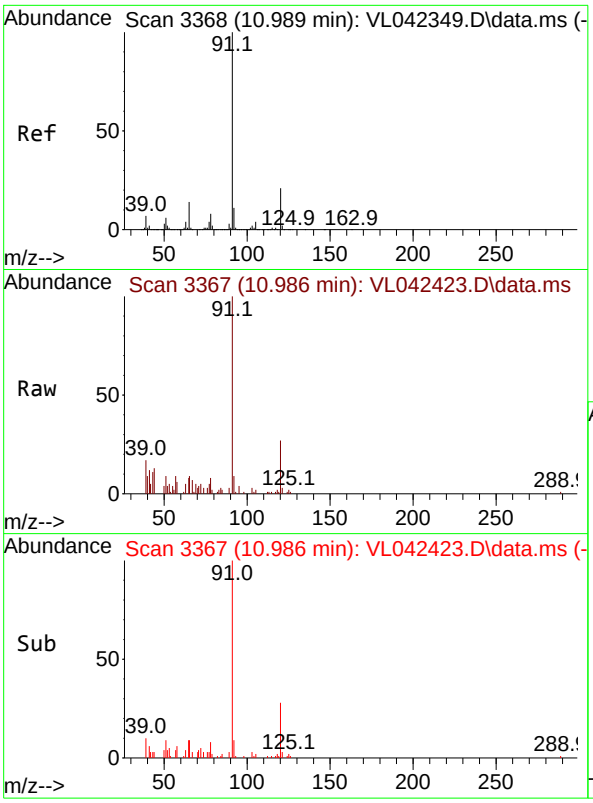



#61
Styrene
Concen: 0.316 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. 0.000 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion:104 Resp: 8176

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 62.6 | 44.6 | 66.8 |
| 103 | 44.8 | 37.4 | 56.0 |

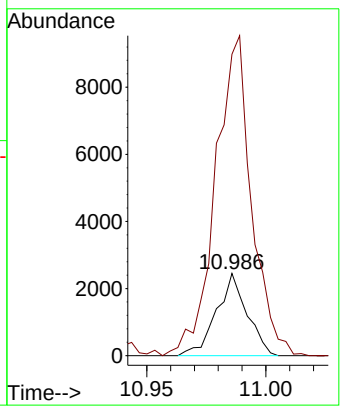





#64
n-propylbenzene
Concen: 0.109 ppbv
RT: 10.986 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion:120 Resp: 219

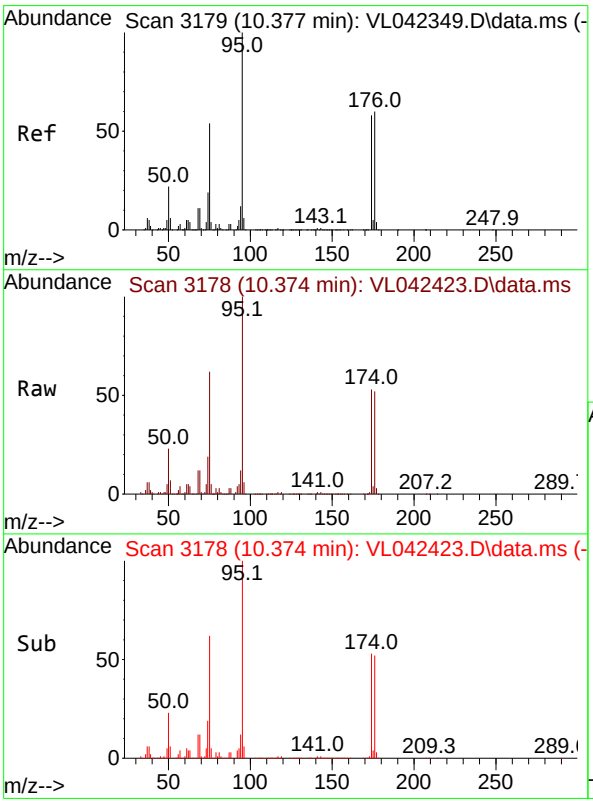
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 459.9 | 392.4 | 588.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

**Manual Integrations**
**APPROVED**

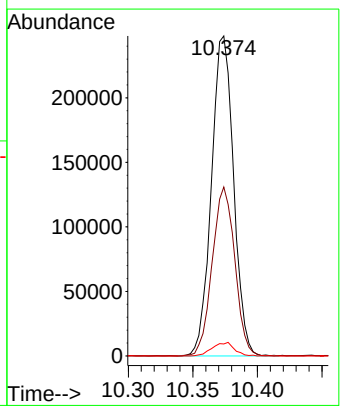
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

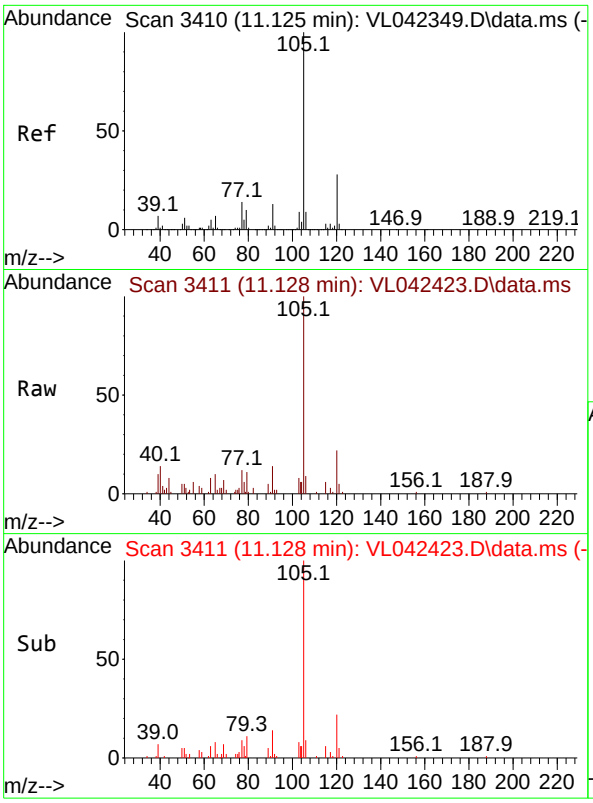



#68
1-Bromo-4-Fluorobenzene
Concen: 10.662 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.003 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion: 95 Resp: 295822

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 53.7 | 48.5 | 72.7 |
| 175 | 4.2 | 3.7 | 5.5 |

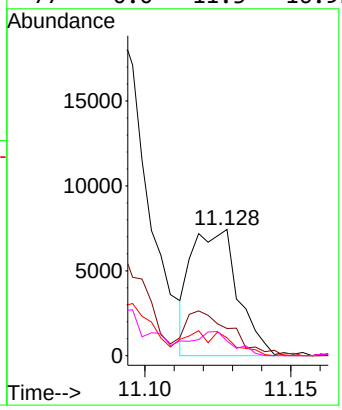





#72
4-Ethyltoluene
Concen: 0.124 ppbv m
RT: 11.128 min Scan# 34
Delta R.T. 0.004 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion:105 Resp: 823

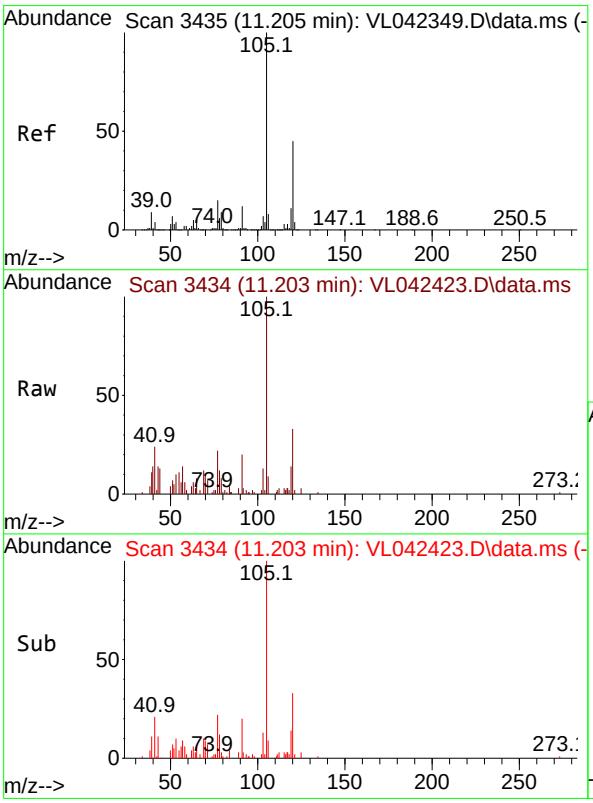
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 0.0 | 23.2 | 34.8# |
| 91 | 0.0 | 10.4 | 15.6# |
| 77 | 0.0 | 11.3 | 16.9# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

**Manual Integrations**
**APPROVED**

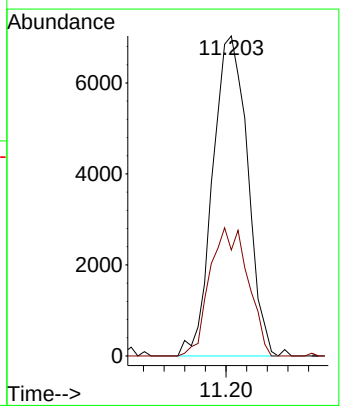
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

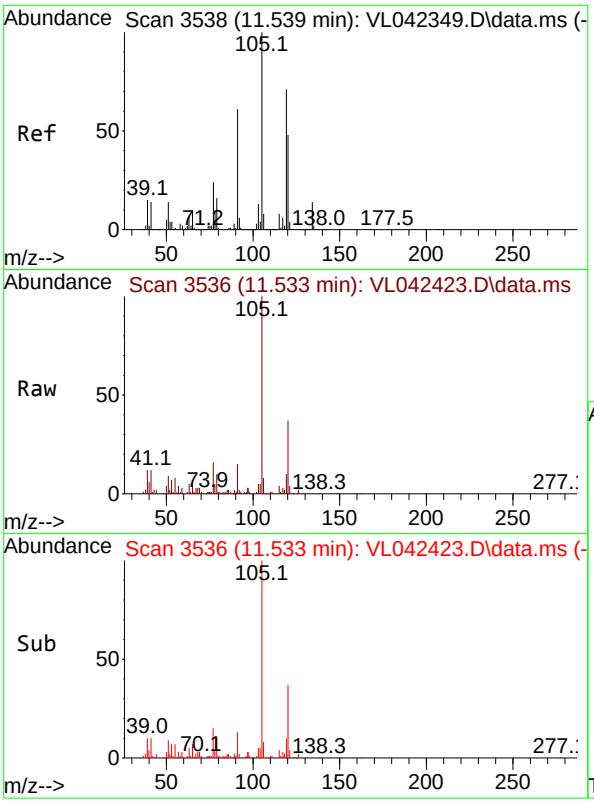



#73
1,3,5-Trimethylbenzene
Concen: 0.140 ppbv
RT: 11.203 min Scan# 3434
Delta R.T. -0.003 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion:105 Resp: 8221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 33.1 | 35.6 | 53.4# |

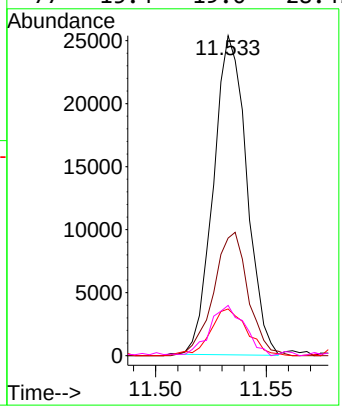





#74
1,2,4-Trimethylbenzene
Concen: 0.387 ppbv
RT: 11.533 min Scan# 3
Delta R.T. -0.006 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion:105 Resp: 2644

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 36.4 | 38.1 | 57.1# |
| 91 | 14.0 | 48.8 | 73.2# |
| 77 | 15.4 | 19.0 | 28.4# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042423.D
Acq On : 28 Apr 2025 13:26
Operator : SY/MD
Sample : Q1665-19
Misc : 400mL/MSVOA_L
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

Signal : TIC: VL042423.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.428 | 410 | 414 | 420 | rBV | 4495721 | 5123508 | 100.00% | 19.950% |
| 2 | 1.467 | 422 | 426 | 429 | rVV | 1832964 | 975350 | 19.04% | 3.798% |
| 3 | 1.486 | 429 | 432 | 438 | rVB2 | 613219 | 301988 | 5.89% | 1.176% |
| 4 | 1.557 | 450 | 454 | 459 | rBV | 3609938 | 1807242 | 35.27% | 7.037% |
| 5 | 1.619 | 469 | 473 | 478 | rVB | 2373472 | 1330465 | 25.97% | 5.181% |
| 6 | 1.719 | 500 | 504 | 511 | rBV | 1527919 | 931921 | 18.19% | 3.629% |
| 7 | 1.842 | 535 | 542 | 548 | rBV2 | 1566169 | 1482933 | 28.94% | 5.774% |
| 8 | 1.884 | 548 | 555 | 562 | rBV | 944008 | 651021 | 12.71% | 2.535% |
| 9 | 1.962 | 575 | 579 | 583 | rVB | 86254 | 57009 | 1.11% | 0.222% |
| 10 | 2.040 | 599 | 603 | 607 | rBV | 187714 | 158732 | 3.10% | 0.618% |
| 11 | 2.273 | 670 | 675 | 681 | rVB | 182031 | 142156 | 2.77% | 0.554% |
| 12 | 2.409 | 711 | 717 | 725 | rBV | 173586 | 182129 | 3.55% | 0.709% |
| 13 | 2.470 | 733 | 736 | 742 | rVB3 | 60904 | 58096 | 1.13% | 0.226% |
| 14 | 2.506 | 742 | 747 | 755 | rVB2 | 116405 | 105594 | 2.06% | 0.411% |
| 15 | 2.558 | 757 | 763 | 772 | rVB | 87532 | 81347 | 1.59% | 0.317% |
| 16 | 2.784 | 825 | 833 | 840 | rBV | 516118 | 534680 | 10.44% | 2.082% |
| 17 | 2.823 | 840 | 845 | 859 | rVB2 | 235170 | 284012 | 5.54% | 1.106% |
| 18 | 3.221 | 959 | 968 | 977 | rVB5 | 44401 | 70927 | 1.38% | 0.276% |
| 19 | 3.655 | 1090 | 1102 | 1106 | rBV4 | 33278 | 53611 | 1.05% | 0.209% |
| 20 | 3.684 | 1106 | 1111 | 1125 | rVB | 157430 | 231764 | 4.52% | 0.902% |
| 21 | 3.956 | 1183 | 1195 | 1209 | rBV | 699794 | 1082156 | 21.12% | 4.214% |
| 22 | 4.050 | 1213 | 1224 | 1232 | rBV4 | 50344 | 89508 | 1.75% | 0.349% |
| 23 | 4.254 | 1275 | 1287 | 1302 | rBV7 | 71588 | 161577 | 3.15% | 0.629% |
| 24 | 4.632 | 1391 | 1404 | 1405 | rBV2 | 45599 | 56520 | 1.10% | 0.220% |
| 25 | 4.639 | 1405 | 1406 | 1419 | rVB2 | 52966 | 59321 | 1.16% | 0.231% |
| 26 | 4.972 | 1500 | 1509 | 1521 | rBV5 | 26372 | 54274 | 1.06% | 0.211% |
| 27 | 6.843 | 2069 | 2087 | 2100 | rBV3 | 143454 | 340530 | 6.65% | 1.326% |
| 28 | 6.927 | 2100 | 2113 | 2131 | rVB2 | 283552 | 584714 | 11.41% | 2.277% |
| 29 | 7.684 | 2336 | 2347 | 2362 | rVB4 | 106187 | 179490 | 3.50% | 0.699% |
| 30 | 8.296 | 2529 | 2536 | 2549 | rVB7 | 41567 | 74529 | 1.45% | 0.290% |
| 31 | 8.879 | 2700 | 2716 | 2727 | rBV2 | 882854 | 1294323 | 25.26% | 5.040% |
| 32 | 9.351 | 2853 | 2862 | 2871 | rBV2 | 63092 | 89858 | 1.75% | 0.350% |
| 33 | 9.526 | 2907 | 2916 | 2933 | rVB2 | 105769 | 213723 | 4.17% | 0.832% |
| 34 | 9.736 | 2965 | 2981 | 2992 | rBV | 2325820 | 3071122 | 59.94% | 11.958% |
| 35 | 9.866 | 3011 | 3021 | 3030 | rVB7 | 36917 | 54202 | 1.06% | 0.211% |
| 36 | 9.934 | 3030 | 3042 | 3047 | rBV2 | 132624 | 190328 | 3.71% | 0.741% |

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042423.D
Acq On : 28 Apr 2025 13:26
Operator : SY/MD
Sample : Q1665-19
Misc : 400mL/MSVOA_L
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 37 | 9.956 | 3047 | 3049 | 3060 | rVV3 | 70912 | 98702 | 1.93% | 0.384% |
| 38 | 10.018 | 3060 | 3068 | 3077 | rVB4 | 42460 | 57642 | 1.13% | 0.224% |
| 39 | 10.374 | 3163 | 3178 | 3189 | rBV | 1136048 | 1419821 | 27.71% | 5.529% |
| 40 | 10.737 | 3282 | 3290 | 3296 | rBV6 | 38021 | 53477 | 1.04% | 0.208% |
| 41 | 10.856 | 3319 | 3327 | 3335 | rBV | 227237 | 293730 | 5.73% | 1.144% |
| 42 | 10.908 | 3335 | 3343 | 3355 | rVB | 408915 | 482281 | 9.41% | 1.878% |
| 43 | 11.093 | 3392 | 3400 | 3405 | rBV2 | 53660 | 62175 | 1.21% | 0.242% |
| 44 | 11.423 | 3497 | 3502 | 3511 | rVB4 | 43658 | 53790 | 1.05% | 0.209% |
| 45 | 11.533 | 3529 | 3536 | 3546 | rBV2 | 80343 | 98813 | 1.93% | 0.385% |
| 46 | 11.591 | 3546 | 3554 | 3559 | rBV5 | 52400 | 58667 | 1.15% | 0.228% |
| 47 | 11.720 | 3588 | 3594 | 3598 | rBV2 | 50212 | 59182 | 1.16% | 0.230% |
| 48 | 11.772 | 3598 | 3610 | 3623 | rVB2 | 488845 | 665778 | 12.99% | 2.592% |
| 49 | 12.041 | 3687 | 3693 | 3701 | rVB3 | 106189 | 116964 | 2.28% | 0.455% |

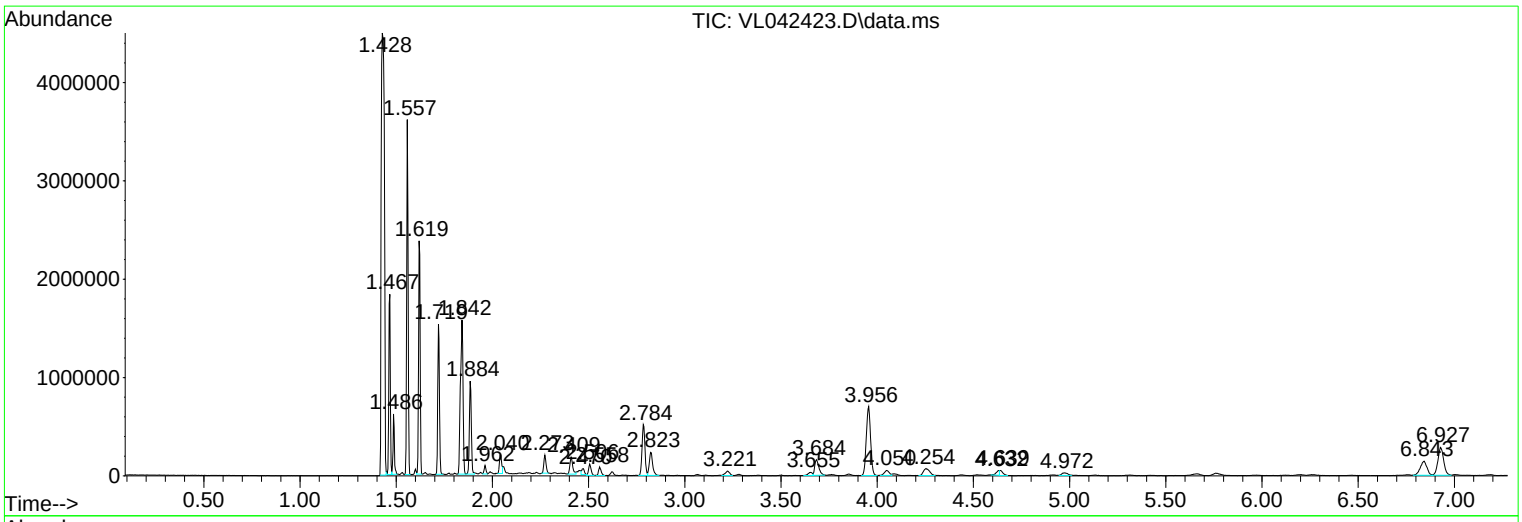
Sum of corrected areas: 25681682

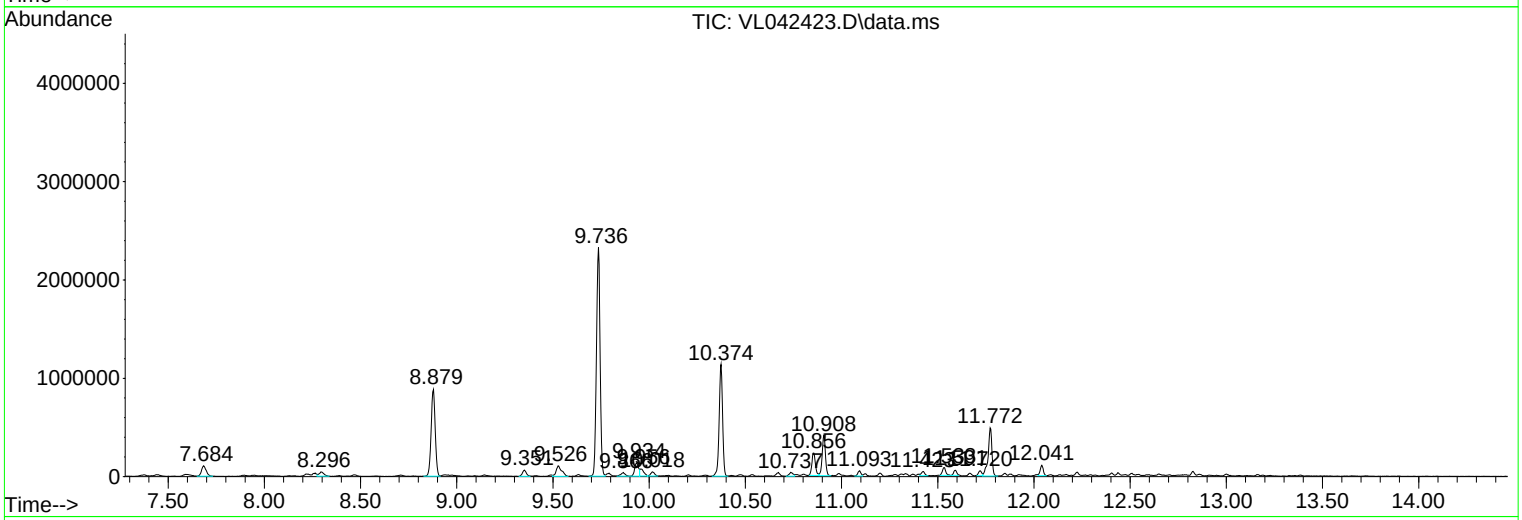
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042423.D
Acq On : 28 Apr 2025 13:26
Operator : SY/MD
Sample : Q1665-19
Misc : 400mL/MSVOA_L
ALS Vial : 10 Sample Multiplier: 1

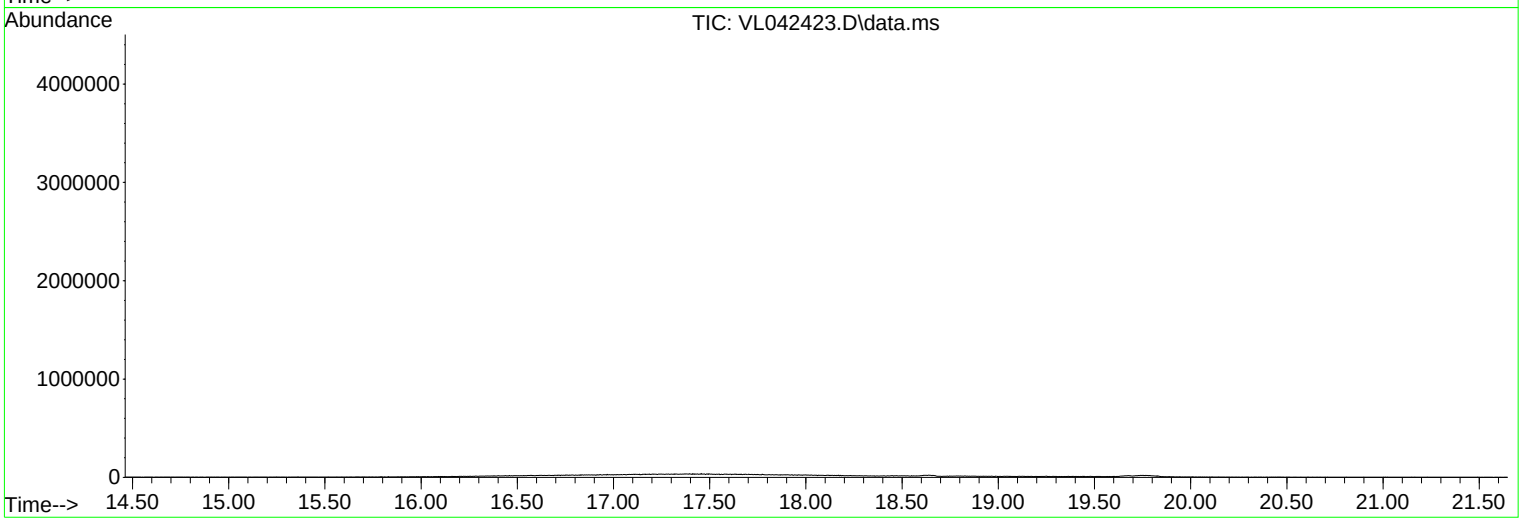
**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042423.D
Acq On : 28 Apr 2025 13:26
Operator : SY/MD
Sample : Q1665-19
Misc : 400mL/MSVOA_L
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

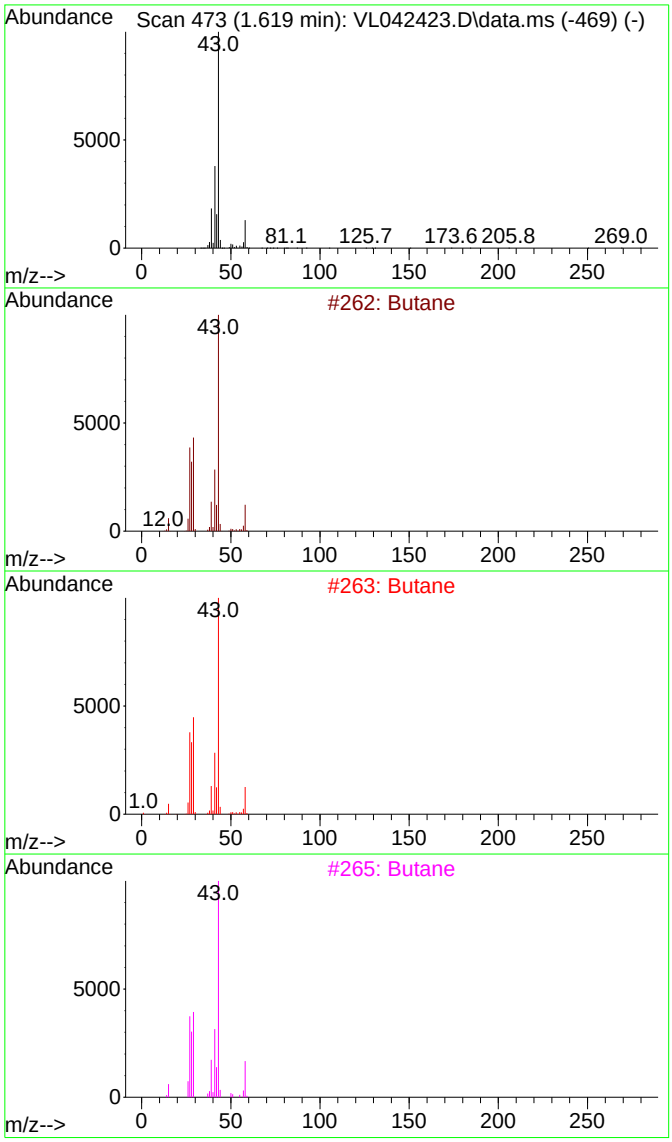
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

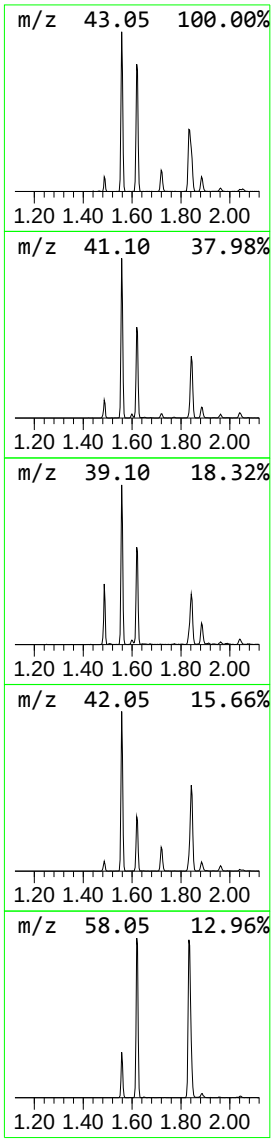
**********

Peak Number 2 Butane Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.619 | 24.88 ppbv | 1330470 | Bromochloromethane | 2.784 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane | 58 | C4H10 | 000106-97-8 | 80 |
| 2 | Butane | 58 | C4H10 | 000106-97-8 | 80 |
| 3 | Butane | 58 | C4H10 | 000106-97-8 | 72 |
| 4 | Butane | 58 | C4H10 | 000106-97-8 | 58 |
| 5 | Isobutane | 58 | C4H10 | 000075-28-5 | 9 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042423.D
Acq On : 28 Apr 2025 13:26
Operator : SY/MD
Sample : Q1665-19
Misc : 400mL/MSVOA_L
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

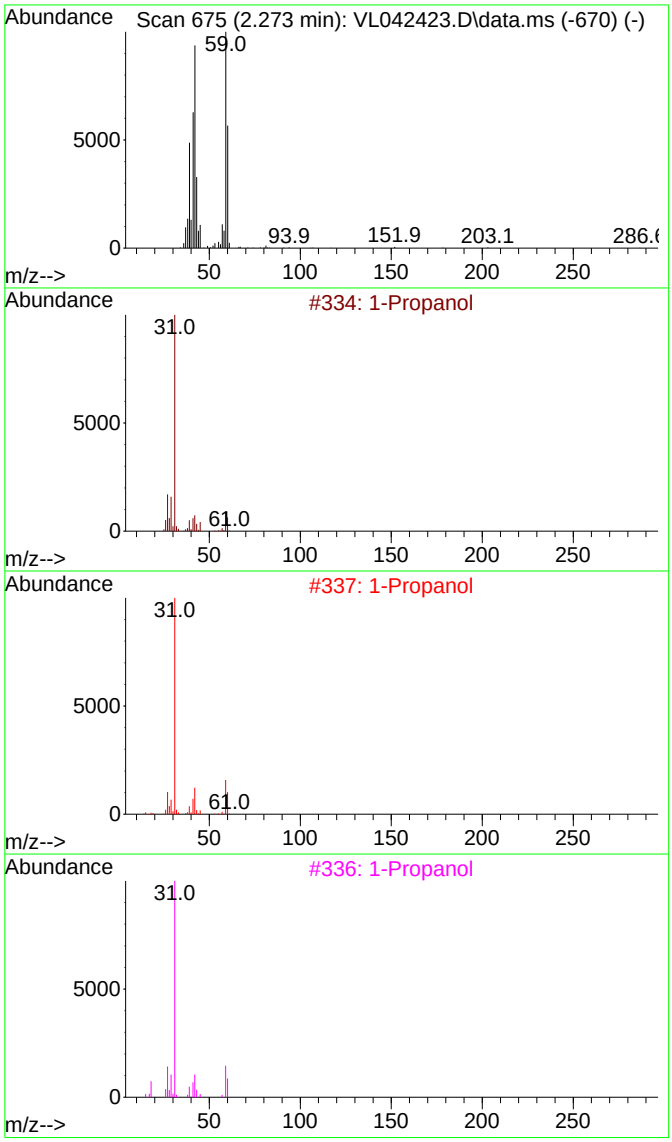
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

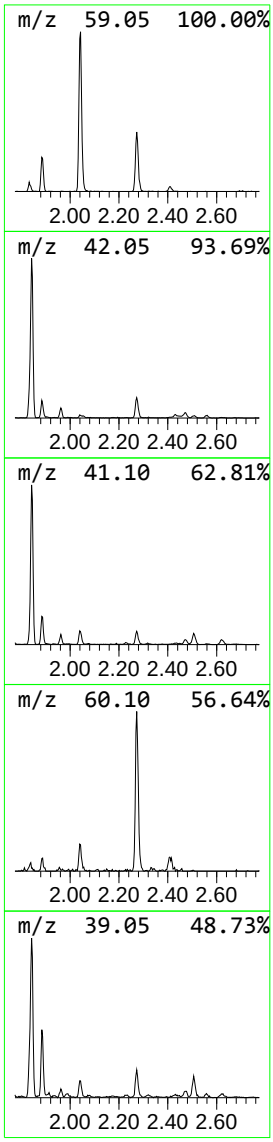
**********

Peak Number 3 1-Propanol Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.273 | 2.66 ppbv | 142156 | Bromochloromethane | 2.784 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Propanol | 60 | C3H8O | 000071-23-8 | 59 |
| 2 | 1-Propanol | 60 | C3H8O | 000071-23-8 | 53 |
| 3 | 1-Propanol | 60 | C3H8O | 000071-23-8 | 53 |
| 4 | 1-Propanol | 60 | C3H8O | 000071-23-8 | 53 |
| 5 | 1-Propanol | 60 | C3H8O | 000071-23-8 | 46 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042423.D
Acq On : 28 Apr 2025 13:26
Operator : SY/MD
Sample : Q1665-19
Misc : 400mL/MSVOA_L
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

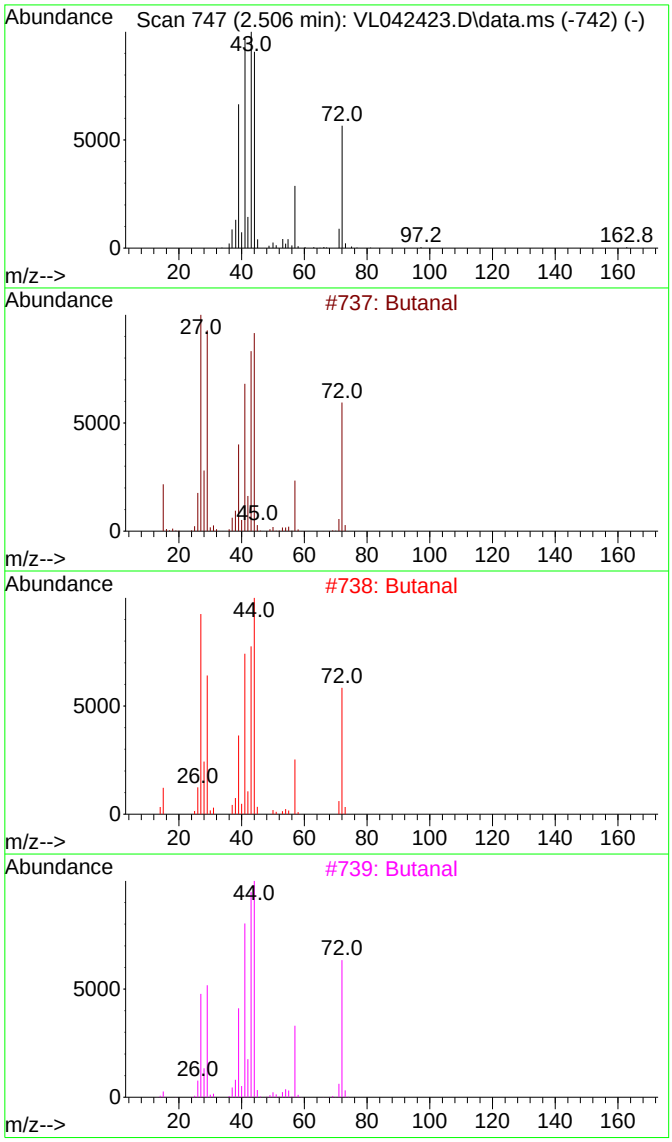
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

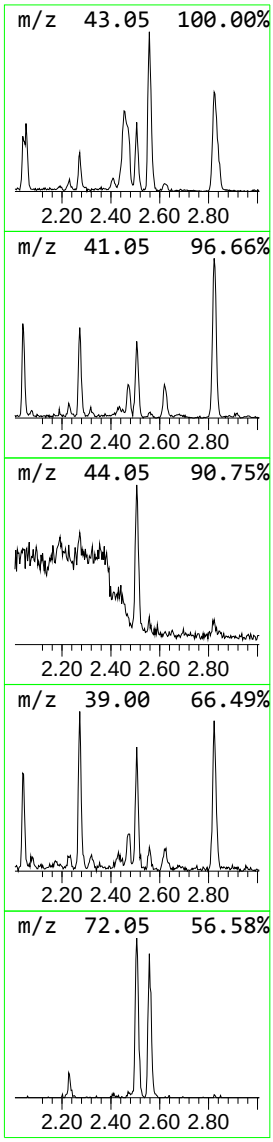
**********

Peak Number 5 Butanal Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.506 | 1.97 ppbv | 105594 | Bromochloromethane | 2.784 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butanal | 72 | C4H8O | 000123-72-8 | 86 |
| 2 | Butanal | 72 | C4H8O | 000123-72-8 | 72 |
| 3 | Butanal | 72 | C4H8O | 000123-72-8 | 59 |
| 4 | Butanal | 72 | C4H8O | 000123-72-8 | 50 |
| 5 | Ethene, ethoxy- | 72 | C4H8O | 000109-92-2 | 50 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042423.D
Acq On : 28 Apr 2025 13:26
Operator : SY/MD
Sample : Q1665-19
Misc : 400mL/MSVOA_L
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

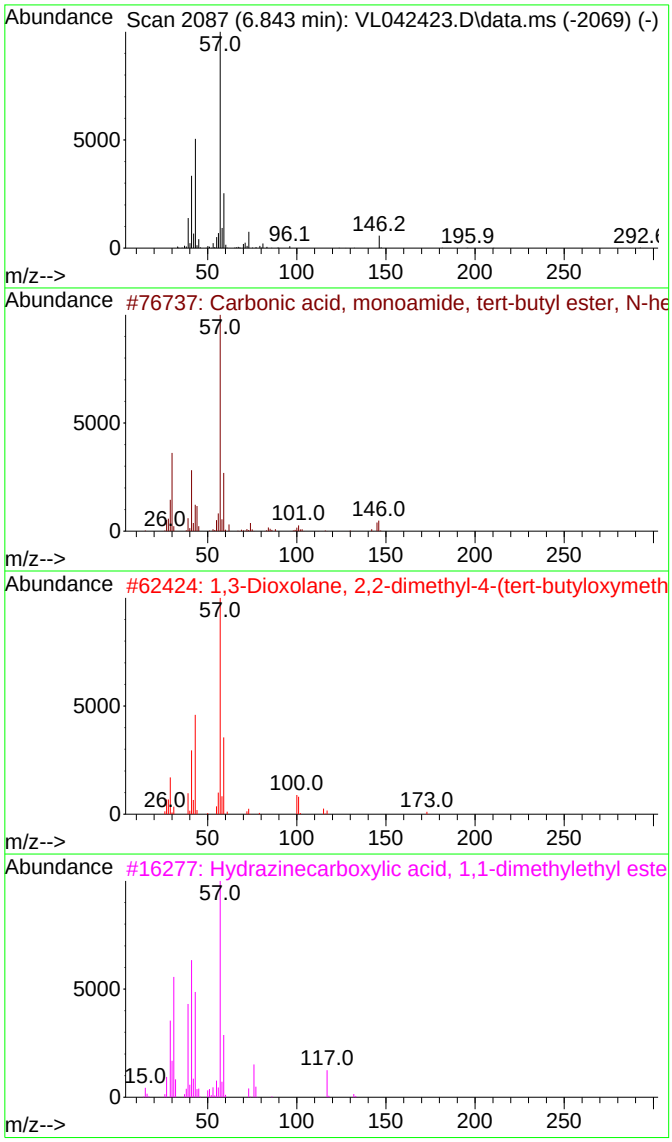
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

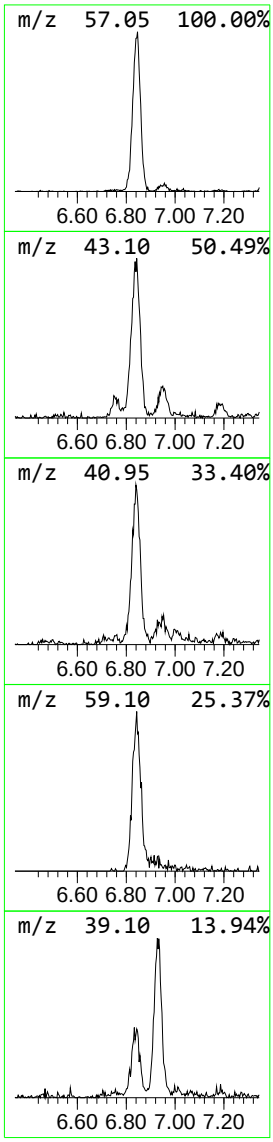
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 6 Carbonic acid, monoamide, t... Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.843 | 2.63 ppbv | 340530 | Chlorobenzene-d5 | 8.879 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Carbonic acid, monoamide, tert-b... | 201 | C11H23NO2 | 1000420-59-4 | 50 |
| 2 | 1,3-Dioxolane, 2,2-dimethyl-4-(t... | 188 | C10H20O3 | 1000381-76-2 | 50 |
| 3 | Hydrazinecarboxylic acid, 1,1-di... | 132 | C5H12N2O2 | 000870-46-2 | 39 |
| 4 | Di-tert-butyl peroxide | 146 | C8H18O2 | 000110-05-4 | 32 |
| 5 | Di-tert-butyl peroxide | 146 | C8H18O2 | 000110-05-4 | 27 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042423.D
Acq On : 28 Apr 2025 13:26
Operator : SY/MD
Sample : Q1665-19
Misc : 400mL/MSVOA_L
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

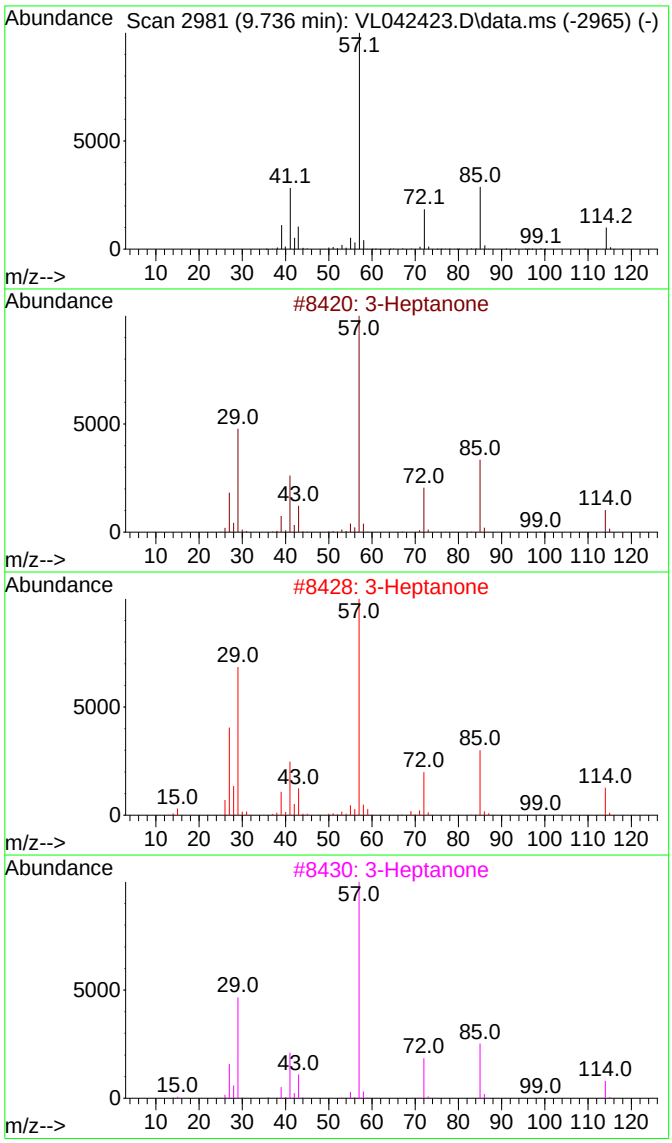
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

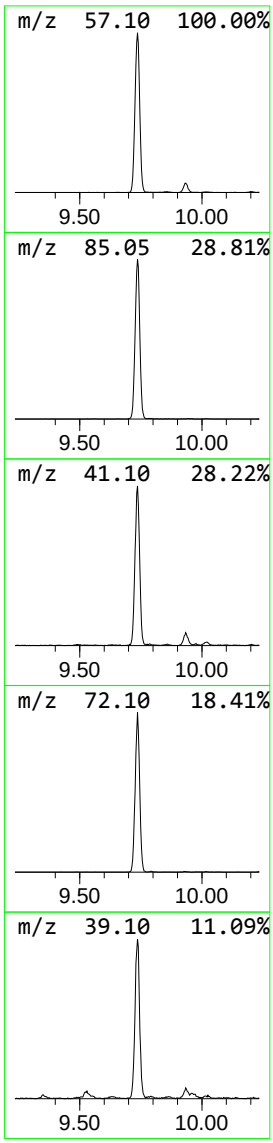
**********

Peak Number 7 3-Heptanone Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.736 | 23.73 ppbv | 3071120 | Chlorobenzene-d5 | 8.879 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Heptanone | 114 | C7H14O | 000106-35-4 | 91 |
| 2 | 3-Heptanone | 114 | C7H14O | 000106-35-4 | 91 |
| 3 | 3-Heptanone | 114 | C7H14O | 000106-35-4 | 90 |
| 4 | 3-Heptanone | 114 | C7H14O | 000106-35-4 | 80 |
| 5 | 3-Hexanone, 5-methyl- | 114 | C7H14O | 000623-56-3 | 64 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042423.D
Acq On : 28 Apr 2025 13:26
Operator : SY/MD
Sample : Q1665-19
Misc : 400mL/MSVOA_L
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

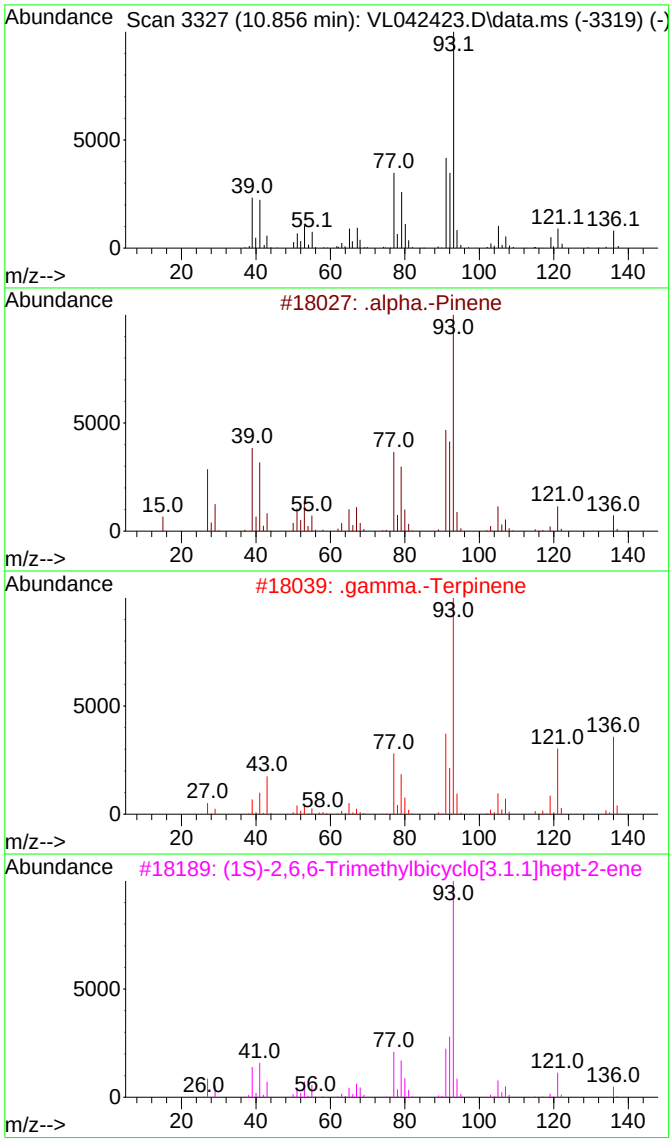
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

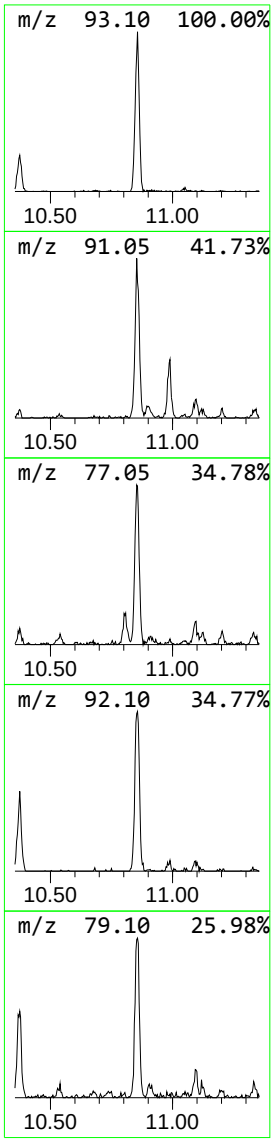
**********

Peak Number 8 .alpha.-Pinene Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.856 | 2.27 ppbv | 293730 | Chlorobenzene-d5 | 8.879 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | .alpha.-Pinene | 136 | C10H16 | 000080-56-8 | 93 |
| 2 | .gamma.-Terpinene | 136 | C10H16 | 000099-85-4 | 91 |
| 3 | (1S)-2,6,6-Trimethylbicyclo[3.1.... | 136 | C10H16 | 007785-26-4 | 91 |
| 4 | (1R)-2,6,6-Trimethylbicyclo[3.1.... | 136 | C10H16 | 007785-70-8 | 91 |
| 5 | .alpha.-Pinene | 136 | C10H16 | 000080-56-8 | 90 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042423.D
Acq On : 28 Apr 2025 13:26
Operator : SY/MD
Sample : Q1665-19
Misc : 400mL/MSVOA_L
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

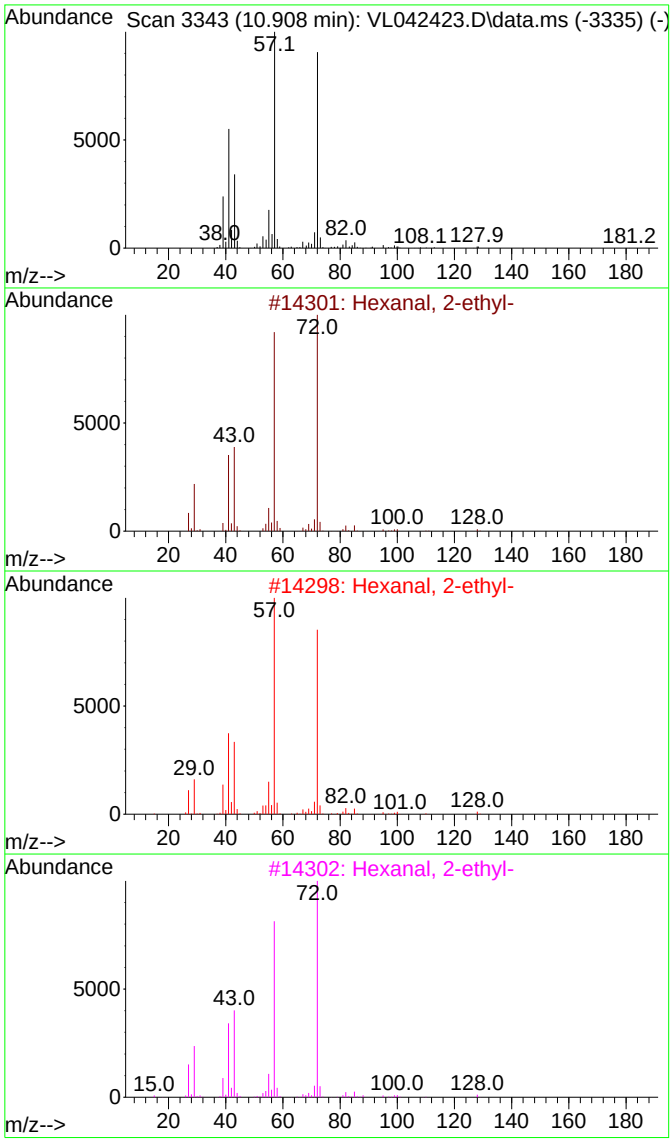
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

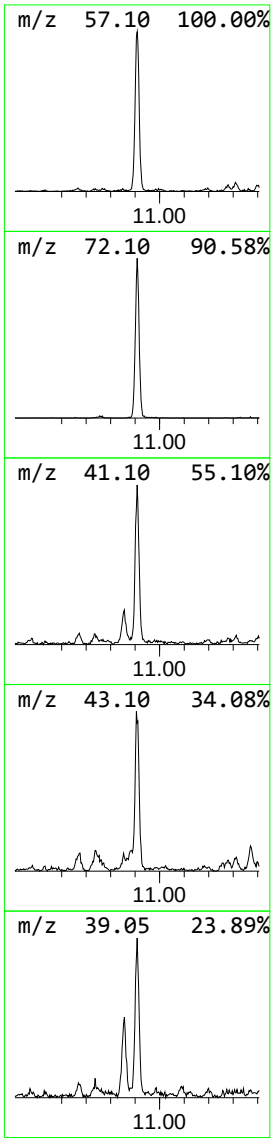
**********

Peak Number 9 Hexanal, 2-ethyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.908 | 3.73 ppbv | 482281 | Chlorobenzene-d5 | 8.879 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexanal, 2-ethyl- | 128 | C8H16O | 000123-05-7 | 90 |
| 2 | Hexanal, 2-ethyl- | 128 | C8H16O | 000123-05-7 | 90 |
| 3 | Hexanal, 2-ethyl- | 128 | C8H16O | 000123-05-7 | 86 |
| 4 | Hexanal, 2-ethyl- | 128 | C8H16O | 000123-05-7 | 72 |
| 5 | trans-1-Butene,1-butoxy- | 128 | C8H16O | 1000139-52-8 | 72 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042423.D
Acq On : 28 Apr 2025 13:26
Operator : SY/MD
Sample : Q1665-19
Misc : 400mL/MSVOA_L
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Butane | 1.619 | 24.9 | ppbv | 1330470 | 1 | 2.784 | 534680 | 10.0 |
| 1-Propanol | 2.273 | 2.7 | ppbv | 142156 | 1 | 2.784 | 534680 | 10.0 |
| Butanal | 2.506 | 2.0 | ppbv | 105594 | 1 | 2.784 | 534680 | 10.0 |
| Carbonic acid, ... | 6.843 | 2.6 | ppbv | 340530 | 3 | 8.879 | 1294320 | 10.0 |
| 3-Heptanone | 9.736 | 23.7 | ppbv | 3071120 | 3 | 8.879 | 1294320 | 10.0 |
| .alpha.-Pinene | 10.856 | 2.3 | ppbv | 293730 | 3 | 8.879 | 1294320 | 10.0 |
| Hexanal, 2-ethyl- | 10.908 | 3.7 | ppbv | 482281 | 3 | 8.879 | 1294320 | 10.0 |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B2-2-3242025DL | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-19DL | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042452.D | 4 | | 04/29/25 18:09 | VL042925 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.84 | 4.15 | UD | 4.15 | 9.89 | ug/m3 |
| 64-17-5 | Ethanol | 320 | 603 | EDQ | 2.45 | 3.77 | ug/m3 |
| 74-87-3 | Chloromethane | 0.39 | 0.81 | UD | 0.81 | 4.13 | ug/m3 |
| 75-01-4 | Vinyl Chloride | 0.060 | 0.15 | UD | 0.15 | 0.31 | ug/m3 |
| 74-83-9 | Bromomethane | 0.56 | 2.17 | UD | 2.17 | 7.77 | ug/m3 |
| 75-00-3 | Chloroethane | 0.68 | 1.79 | UD | 1.79 | 5.28 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | 0.52 | 1.53 | UD | 1.53 | 5.90 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | 0.64 | 3.60 | UD | 3.60 | 11.2 | ug/m3 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.64 | 4.91 | UD | 4.91 | 15.3 | ug/m3 |
| 76-14-2 | Dichlorotetrafluoroethane | 0.35 | 2.45 | UD | 2.45 | 14.0 | ug/m3 |
| 593-60-2 | Bromoethene | 0.48 | 2.10 | UD | 2.10 | 8.74 | ug/m3 |
| 75-65-0 | tert-Butyl alcohol | 2.70 | 8.19 | D | 2.30 | 6.06 | ug/m3 |
| 142-82-5 | Heptane | 0.44 | 1.80 | UD | 1.80 | 8.20 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | 30.8 | 75.7 | D | 0.69 | 4.92 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethene | 0.56 | 2.22 | UD | 2.22 | 7.93 | ug/m3 |
| 67-64-1 | Acetone | 17.3 | 41.1 | D | 2.28 | 4.75 | ug/m3 |
| 75-15-0 | Carbon Disulfide | 0.64 | 1.99 | UD | 1.99 | 6.23 | ug/m3 |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.48 | 1.73 | UD | 1.73 | 7.21 | ug/m3 |
| 75-09-2 | Methylene Chloride | 2.10 | 7.30 | D | 2.64 | 6.95 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.76 | 3.01 | UD | 3.01 | 7.93 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | 0.52 | 2.10 | UD | 2.10 | 8.09 | ug/m3 |
| 110-82-7 | Cyclohexane | 0.88 | 3.03 | UD | 3.03 | 6.88 | ug/m3 |
| 78-93-3 | 2-Butanone | 1.40 | 4.13 | JD | 1.42 | 5.90 | ug/m3 |
| 56-23-5 | Carbon Tetrachloride | 0.040 | 0.25 | UD | 0.25 | 0.75 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.36 | 1.43 | UD | 1.43 | 7.93 | ug/m3 |
| 67-66-3 | Chloroform | 0.33 | 1.61 | UD | 1.61 | 9.77 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.040 | 0.22 | UD | 0.22 | 0.65 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | 0.50 | 2.34 | JD | 1.87 | 9.34 | ug/m3 |
| 71-43-2 | Benzene | 0.35 | 1.12 | UD | 1.12 | 6.39 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | 0.36 | 1.46 | UD | 1.46 | 8.09 | ug/m3 |
| 79-01-6 | Trichloroethene | 0.070 | 0.38 | UD | 0.38 | 0.64 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | 0.44 | 2.03 | UD | 2.03 | 9.24 | ug/m3 |
| 75-27-4 | Bromodichloromethane | 0.31 | 2.08 | UD | 2.08 | 13.4 | ug/m3 |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.37 | 1.52 | UD | 1.52 | 8.20 | ug/m3 |
| 108-88-3 | Toluene | 2.80 | 10.6 | D | 1.66 | 7.54 | ug/m3 |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B2-2-3242025DL | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-19DL | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042452.D | 4 | | 04/29/25 18:09 | VL042925 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.24 | 1.09 | UD | 1.09 | 9.08 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.26 | 1.18 | UD | 1.18 | 9.08 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.28 | 1.53 | UD | 1.53 | 10.9 | ug/m3 |
| 124-48-1 | Dibromochloromethane | 0.26 | 2.22 | UD | 2.22 | 17.0 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane | 0.29 | 2.23 | UD | 2.23 | 3.07 | ug/m3 |
| 127-18-4 | Tetrachloroethene | 0.060 | 0.41 | UD | 0.41 | 0.81 | ug/m3 |
| 108-90-7 | Chlorobenzene | 0.30 | 1.38 | UD | 1.38 | 9.21 | ug/m3 |
| 100-41-4 | Ethyl Benzene | 0.48 | 2.08 | UD | 2.08 | 8.69 | ug/m3 |
| 179601-23-1 | m/p-Xylene | 0.84 | 3.65 | UD | 3.65 | 17.4 | ug/m3 |
| 95-47-6 | o-Xylene | 0.48 | 2.08 | UD | 2.08 | 8.69 | ug/m3 |
| 100-42-5 | Styrene | 0.44 | 1.87 | UD | 1.87 | 8.52 | ug/m3 |
| 75-25-2 | Bromoform | 0.23 | 2.38 | UD | 2.38 | 20.7 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.040 | 0.27 | UD | 0.27 | 0.82 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | 0.44 | 2.28 | UD | 2.28 | 10.4 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.44 | 2.16 | UD | 2.16 | 9.83 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.31 | 1.52 | UD | 1.52 | 9.83 | ug/m3 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.32 | 1.92 | UD | 1.92 | 12.0 | ug/m3 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.21 | 1.26 | UD | 1.26 | 12.0 | ug/m3 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.30 | 1.80 | UD | 1.80 | 12.0 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.34 | 2.52 | UD | 2.52 | 14.8 | ug/m3 |
| 87-68-3 | Hexachloro-1,3-Butadiene | 0.34 | 3.63 | UD | 3.63 | 21.3 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | 0.52 | 1.15 | UD | 1.15 | 4.42 | ug/m3 |
| 91-20-3 | Naphthalene | 0.30 | 1.57 | UD | 1.57 | 2.10 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | 0.48 | 2.36 | UD | 2.36 | 9.83 | ug/m3 |
| 110-54-3 | Hexane | 1.70 | 5.99 | JD | 1.55 | 7.05 | ug/m3 |
| 107-05-1 | Allyl Chloride | 0.60 | 1.88 | UD | 1.88 | 6.26 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | 0.84 | 3.03 | UD | 3.03 | 7.21 | ug/m3 |
| 80-62-6 | Methyl Methacrylate | 0.34 | 1.39 | UD | 1.39 | 8.19 | ug/m3 |
| **SURROGATES** | | | | | | | |
| 460-00-4 | 1-Bromo-4-Fluorobenzene | 11.3 | | | 70 (65) - 130 (135) | 113% | SPK: 10 |
| **INTERNAL STANDARDS** | | | | | | | |
| 74-97-5 | Bromochloromethane | 114000 | | 2.794 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 306000 | | 3.972 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 262000 | | 8.895 | | | |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B2-2-3242025DL | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-19DL | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042452.D | 4 | | 04/29/25 18:09 | VL042925 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
Data File : VL042452.D
Acq On : 29 Apr 2025 18:09
Operator : SY/MD
Sample : Q1665-19DL 4X
Misc : 400mL/MSVOA_L
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 30 01:24:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025DL

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 2.794 | 49 | 114403 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.972 | 114 | 305602 | 10.000 | ppbv | | 0.01 |
| 55) Chlorobenzene-d5 | 8.895 | 117 | 261578 | 10.000 | ppbv | | 0.01 |
| System Monitoring Compounds | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.387 | 95 | 242040 | 11.260 | ppbv | | 0.01 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 112.600% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.499 | 85 | 2645 | 0.131 | ppbv | | 99 |
| 9) Propene | 1.489 | 41 | 8905m | 1.016 | ppbv | | |
| 13) Ethanol | 1.726 | 45 | 110989 | 79.664 | ppbv | | 76 |
| 15) Acetone | 1.842 | 43 | 80971m | 4.324 | ppbv | | |
| 17) tert-Butyl alcohol | 2.049 | 59 | 15817 | 0.681 | ppbv | # | 92 |
| 19) Isopropyl Alcohol | 1.891 | 45 | 80028 | 7.692 | ppbv | # | 36 |
| 20) Methylene Chloride | 2.069 | 84 | 3847 | 0.525 | ppbv | # | 83 |
| 26) Hexane | 2.836 | 57 | 8047 | 0.431 | ppbv | # | 42 |
| 34) 2-Butanone | 2.567 | 43 | 8758 | 0.362 | ppbv | | 97 |
| 44) 2,2,4-Trimethylpentane | 4.655 | 57 | 7159m | 0.126 | ppbv | | |
| 53) Toluene | 6.943 | 91 | 27990m | 0.708 | ppbv | | |
| 59) m/p-Xylene | 9.545 | 91 | 7293m | 0.175 | ppbv | | |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
Data File : VL042452.D
Acq On : 29 Apr 2025 18:09
Operator : SY/MD
Sample : Q1665-19DL 4X
Misc : 400mL/MSVOA_L
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 30 01:24:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025DL

**Manual Integrations APPROVED**
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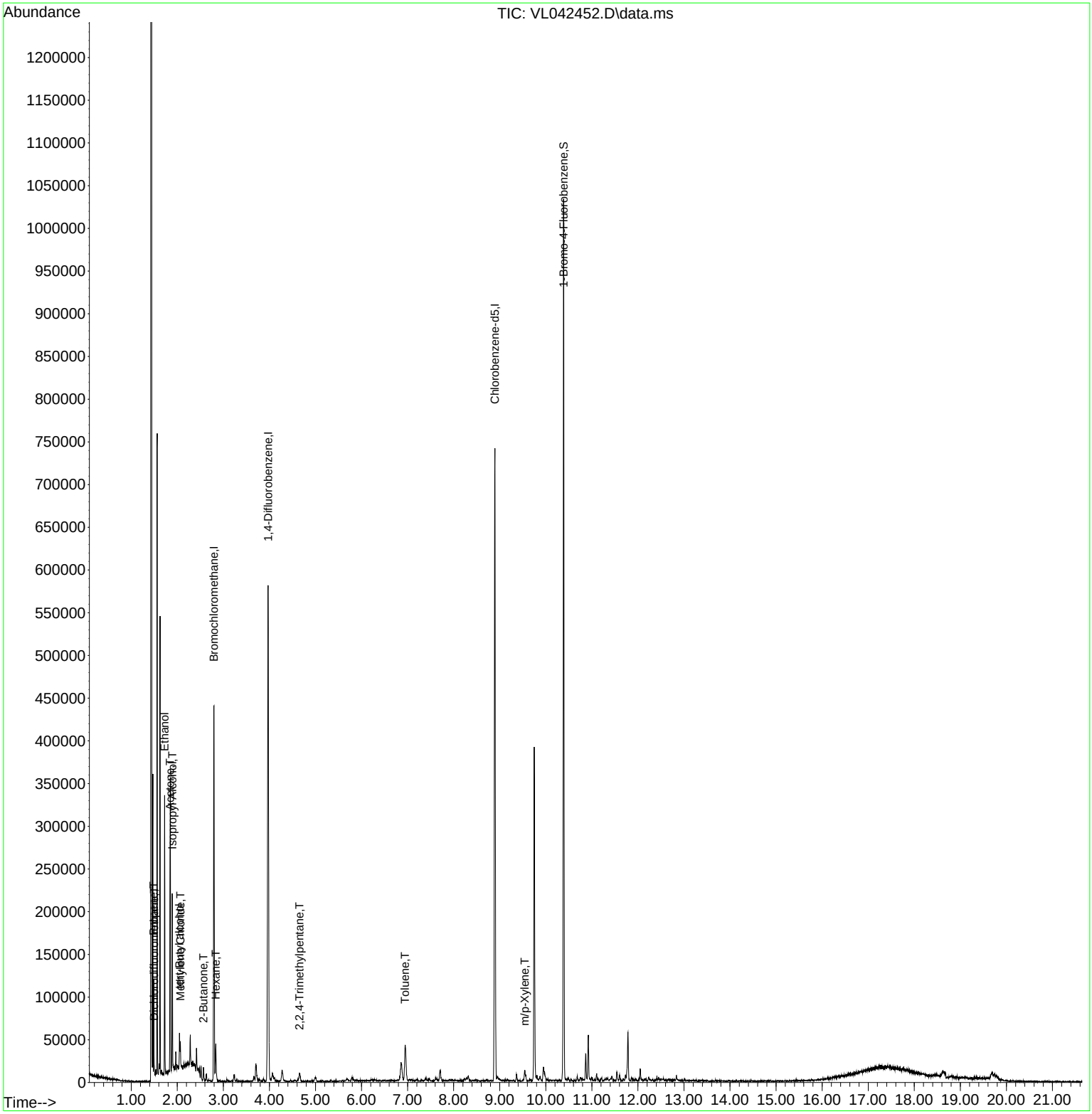

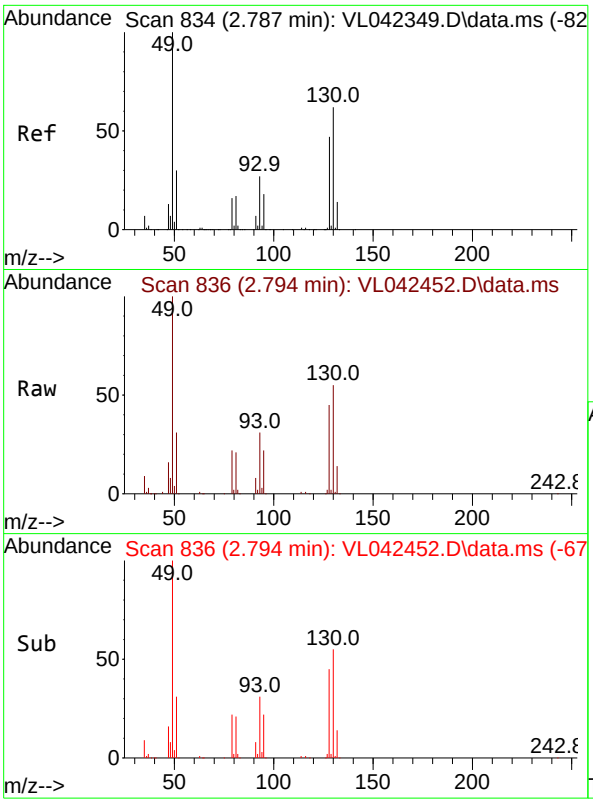


#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 8
Delta R.T. 0.007 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

Tgt Ion: 49 Resp: 11440

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 44.4 | 22.8 | 68.4 |
| 130 | 55.9 | 29.3 | 88.0 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025DL

**Manual Integrations**
**APPROVED**

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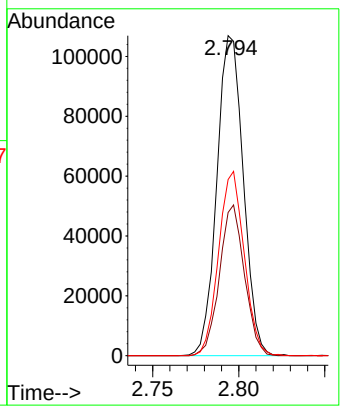
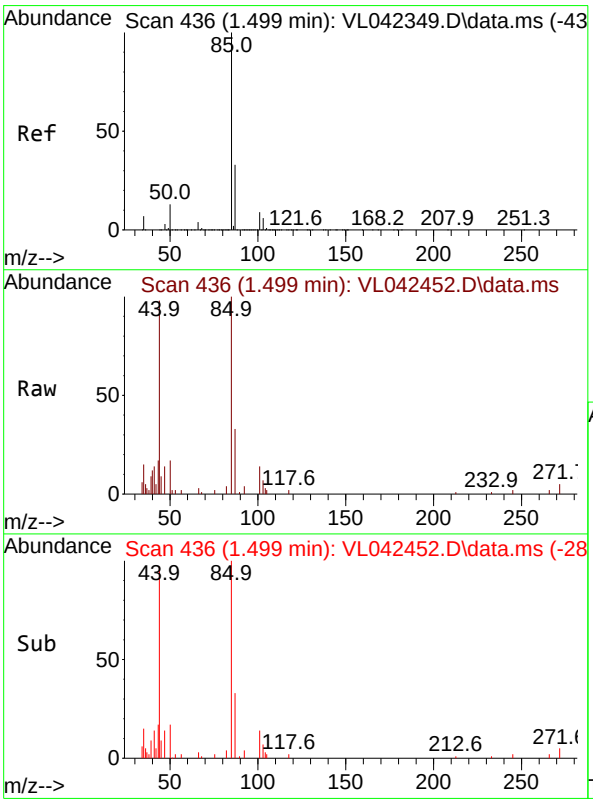
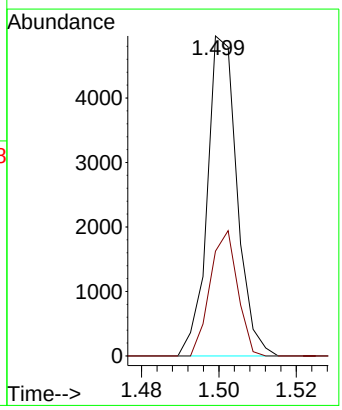


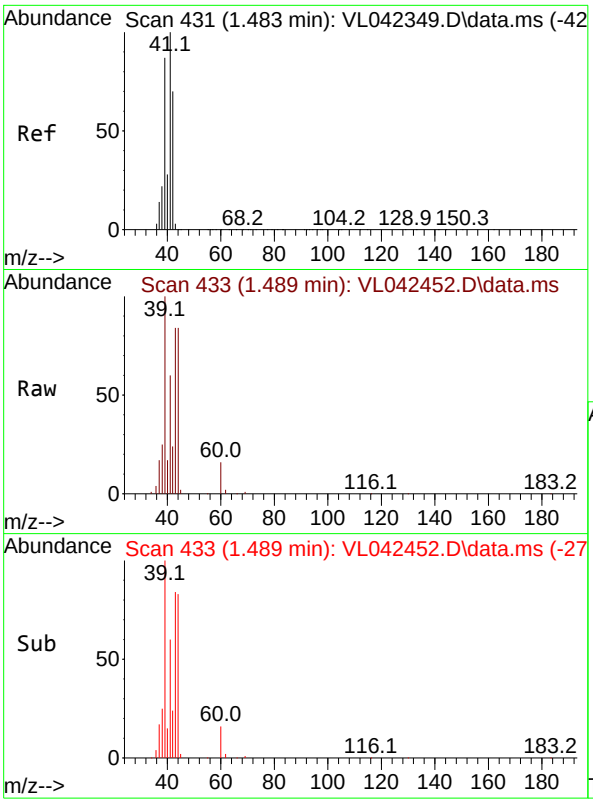




#2
Dichlorodifluoromethane
Concen: 0.131 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

Tgt Ion: 85 Resp: 2645

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.8 | 26.6 | 39.8 |

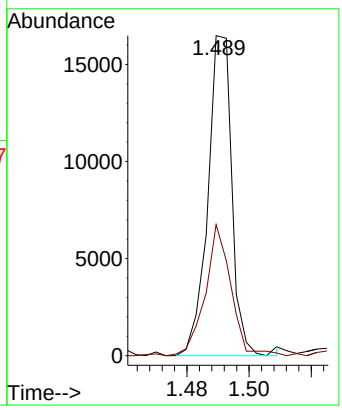





#9
Propene
Concen: 1.016 ppbv m
RT: 1.489 min Scan# 4
Delta R.T. 0.007 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

Tgt Ion: 41 Resp: 890

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 661.6 | 56.2 | 84.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025DL

**Manual Integrations**
**APPROVED**

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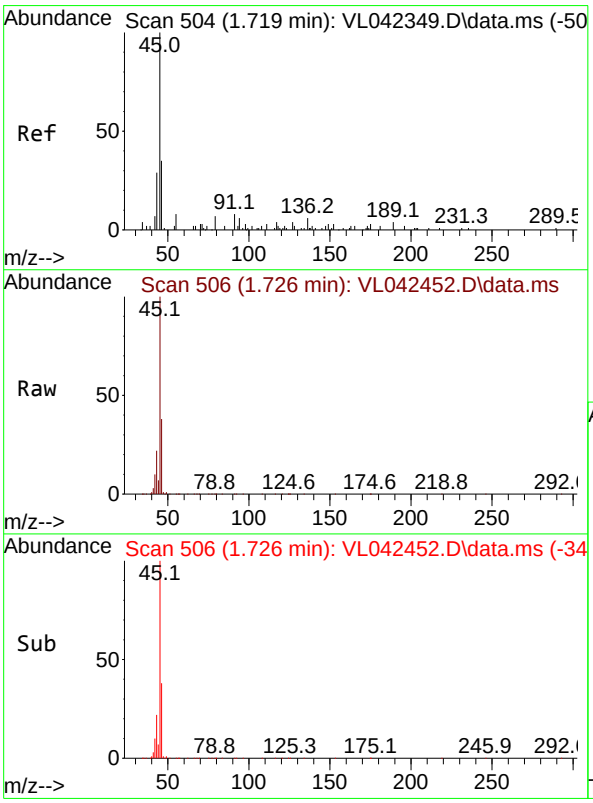
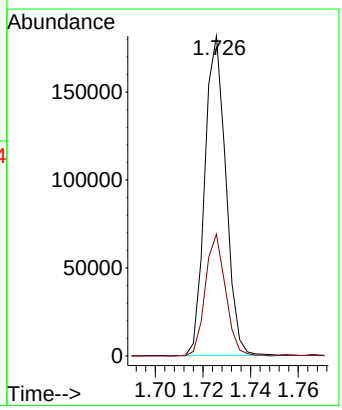
Supervised By :Mahesh Dadoda 04/30/2025

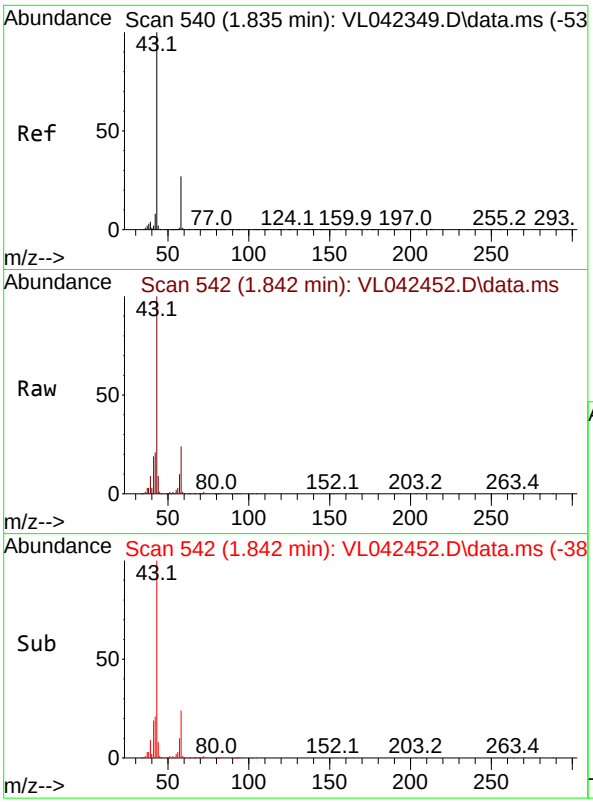



#13
Ethanol
Concen: 79.664 ppbv
RT: 1.726 min Scan# 506
Delta R.T. 0.007 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

Tgt Ion: 45 Resp: 110989

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 37.3 | 21.9 | 87.7 |

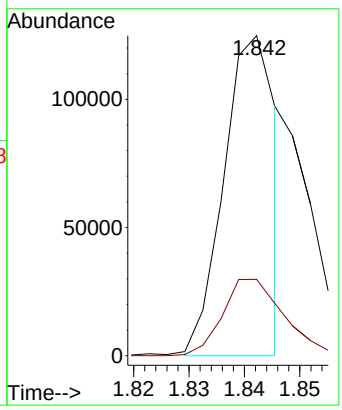





#15
Acetone
Concen: 4.324 ppbv m
RT: 1.842 min Scan# 54
Delta R.T. 0.007 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

Tgt Ion: 43 Resp: 8097

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 28.7 | 22.4 | 33.6 |

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**ClientSampleId :**
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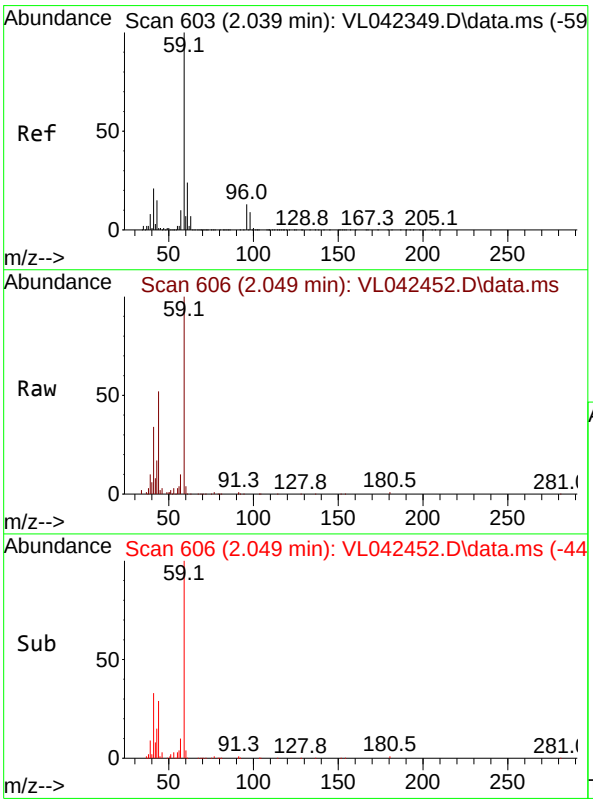
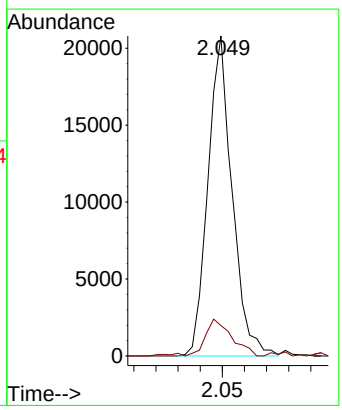
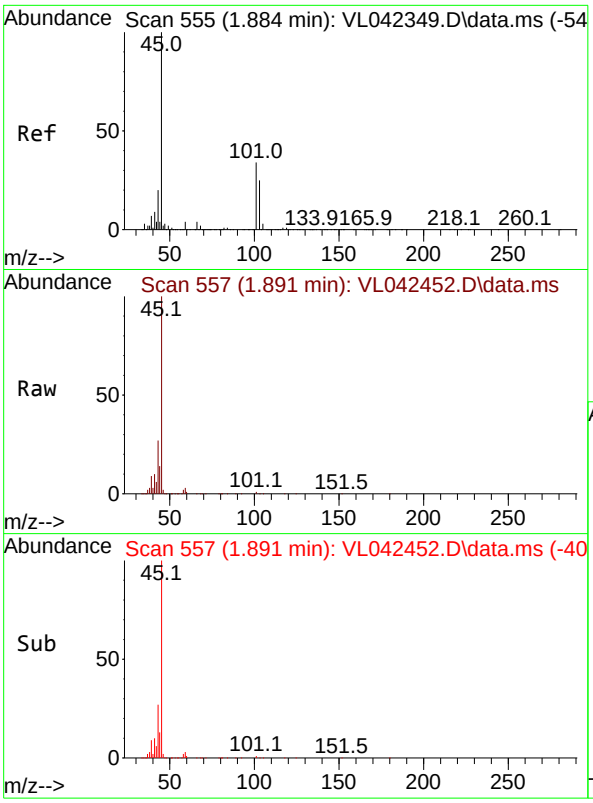



#17
tert-Butyl alcohol
Concen: 0.681 ppbv
RT: 2.049 min Scan# 606
Delta R.T. 0.010 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

Tgt Ion: 59 Resp: 15817

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 14.1 | 8.7 | 13.1# |






#19
Isopropyl Alcohol
Concen: 7.692 ppbv
RT: 1.891 min Scan# 5
Delta R.T. 0.007 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

Tgt Ion: 45 Resp: 8002

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 2.3 | 34.5 | 51.7# |

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025DL

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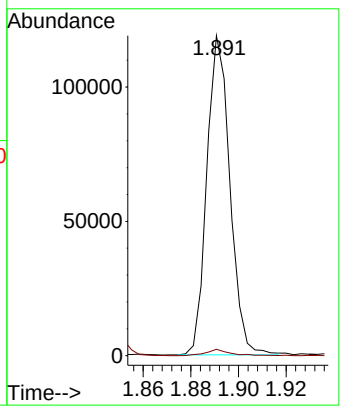
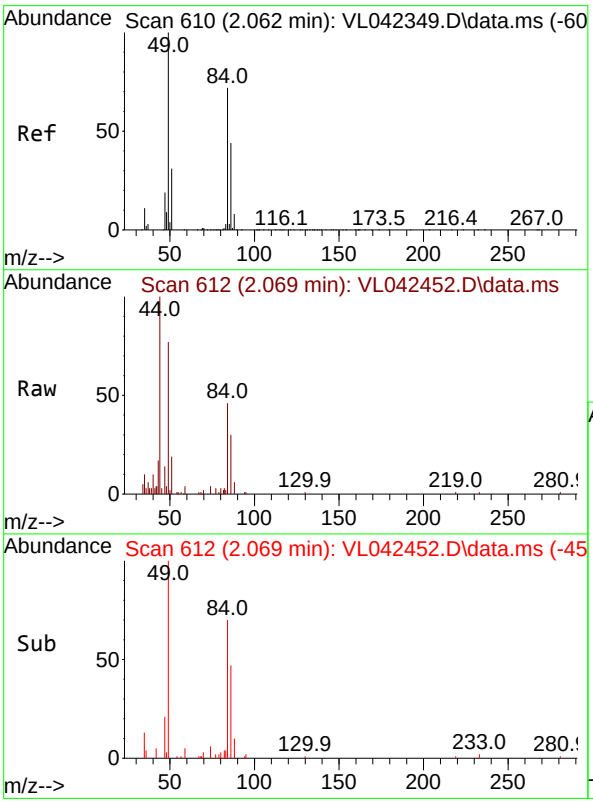
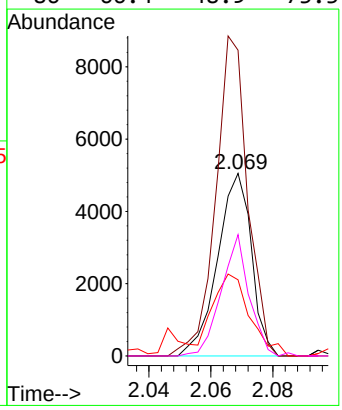


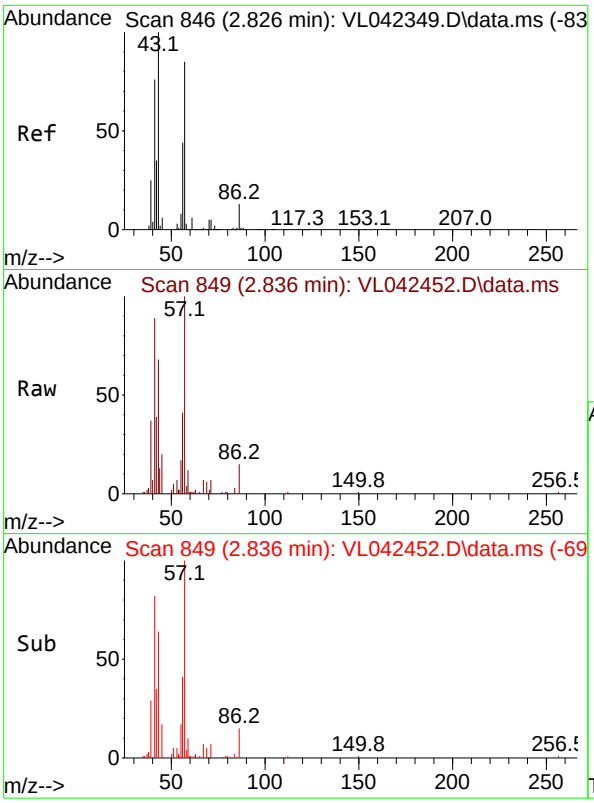




#20
Methylene Chloride
Concen: 0.525 ppbv
RT: 2.069 min Scan# 612
Delta R.T. 0.007 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

Tgt Ion: 84 Resp: 3847

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 167.5 | 111.6 | 167.4# |
| 51 | 35.0 | 35.1 | 52.7# |
| 86 | 66.4 | 48.9 | 73.3 |

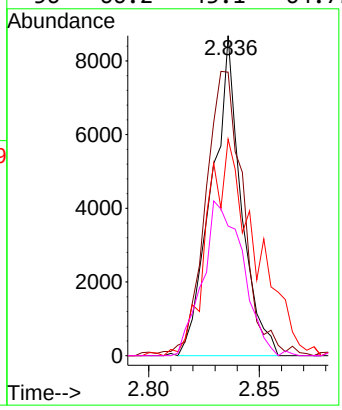





#26
Hexane
Concen: 0.431 ppbv
RT: 2.836 min Scan# 84
Delta R.T. 0.010 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

Tgt Ion: 57 Resp: 804

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 114.0 | 77.9 | 116.9 |
| 43 | 112.8 | 208.4 | 312.6# |
| 56 | 66.2 | 43.1 | 64.7# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025DL

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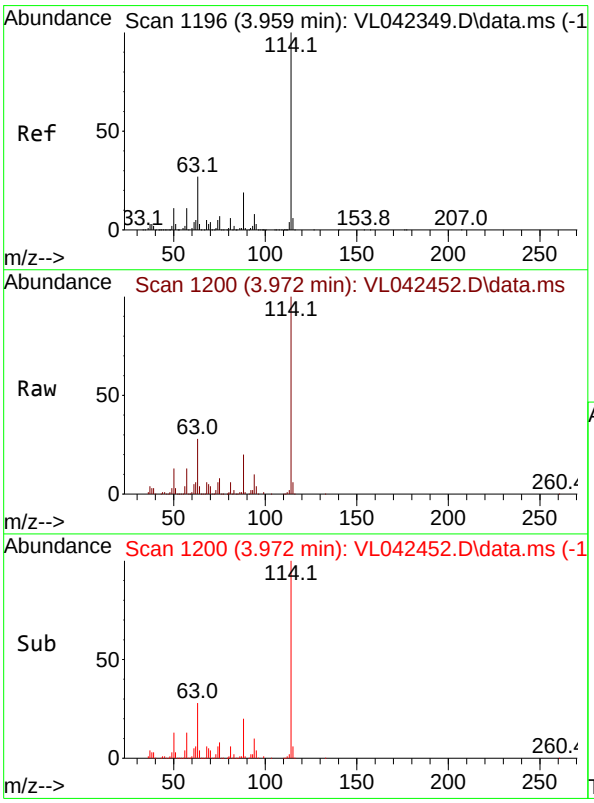
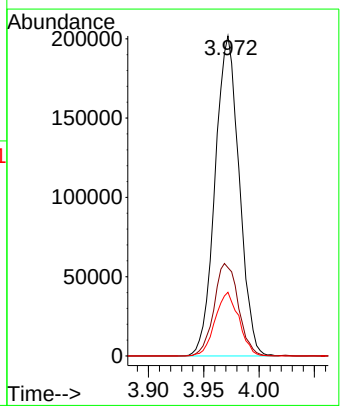
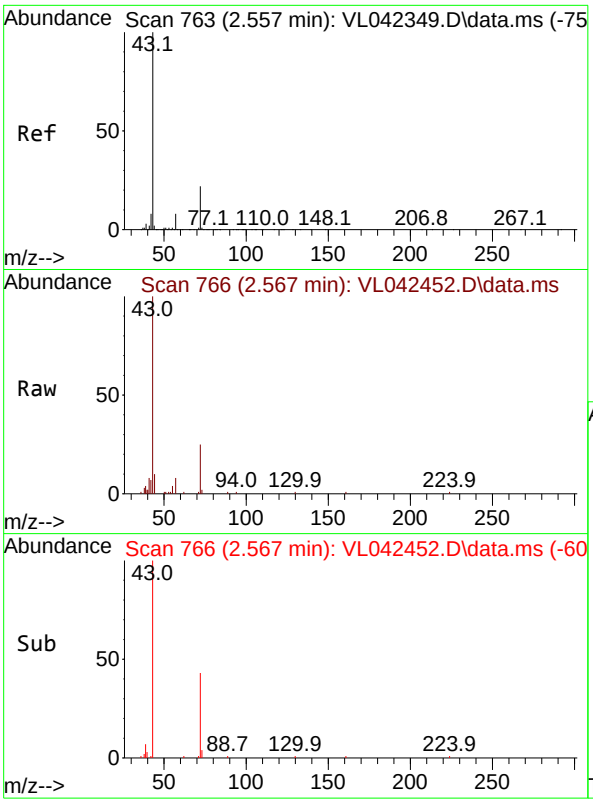



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.972 min Scan# 1200
Delta R.T. 0.013 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

Tgt Ion:114 Resp: 305602

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 29.3 | 21.8 | 32.6 |
| 88 | 19.7 | 15.5 | 23.3 |

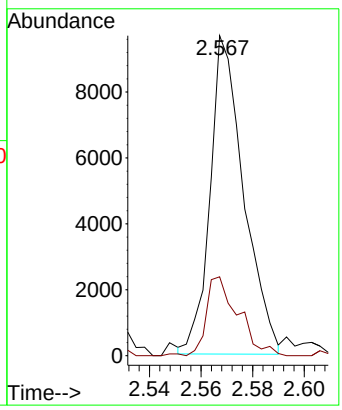





#34
2-Butanone
Concen: 0.362 ppbv
RT: 2.567 min Scan# 7
Delta R.T. 0.010 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

Tgt Ion: 43 Resp: 875

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 24.0 | 18.2 | 27.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025DL

**Manual Integrations**
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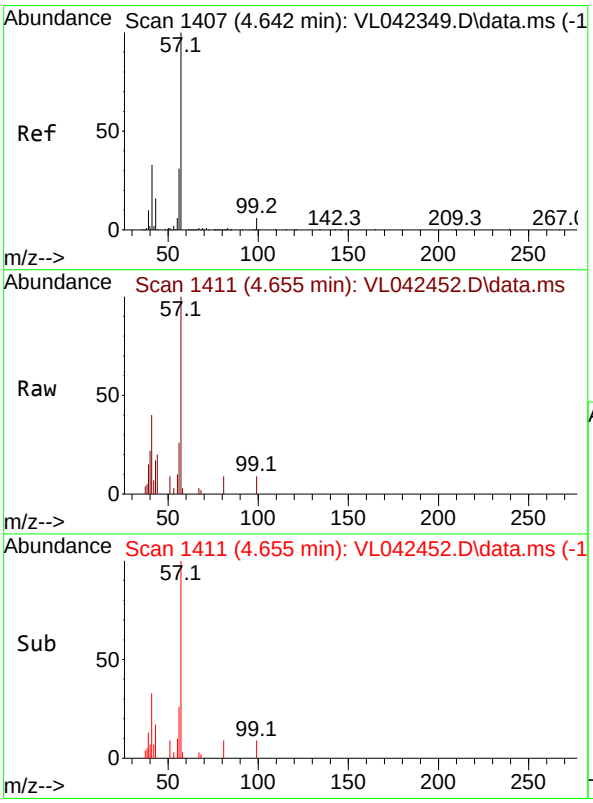
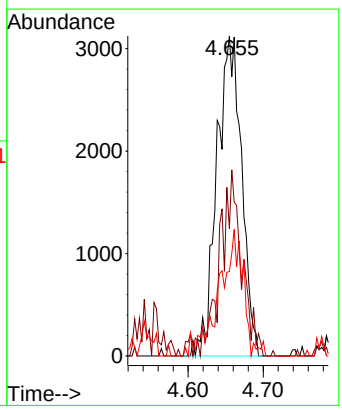
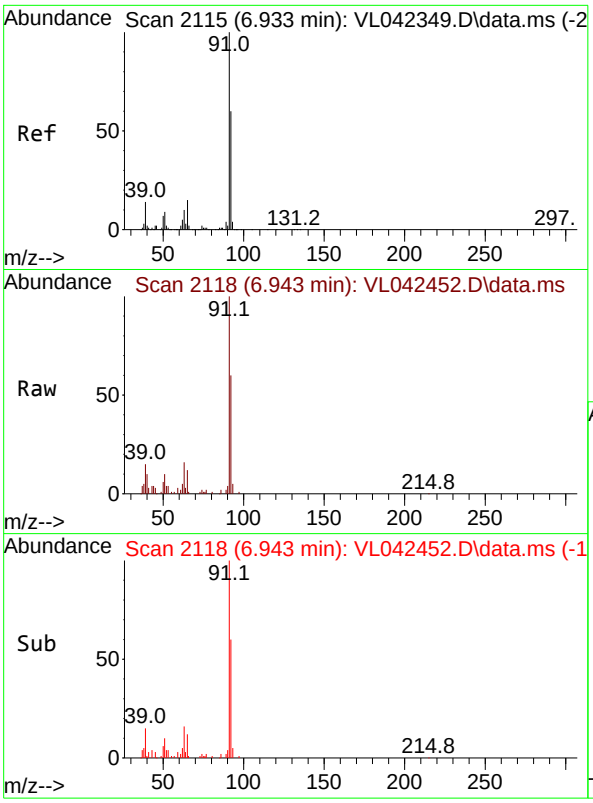



#44
2,2,4-Trimethylpentane
Concen: 0.126 ppbv m
RT: 4.655 min Scan# 1411
Delta R.T. 0.013 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

Tgt Ion: 57 Resp: 7159

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 53.0 | 27.2 | 40.8# |
| 56 | 0.0 | 25.7 | 38.5# |

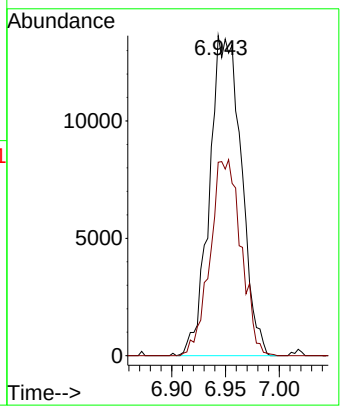





#53
Toluene
Concen: 0.708 ppbv m
RT: 6.943 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

Tgt Ion: 91 Resp: 2799

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 59.9 | 48.2 | 72.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025DL

**Manual Integrations**
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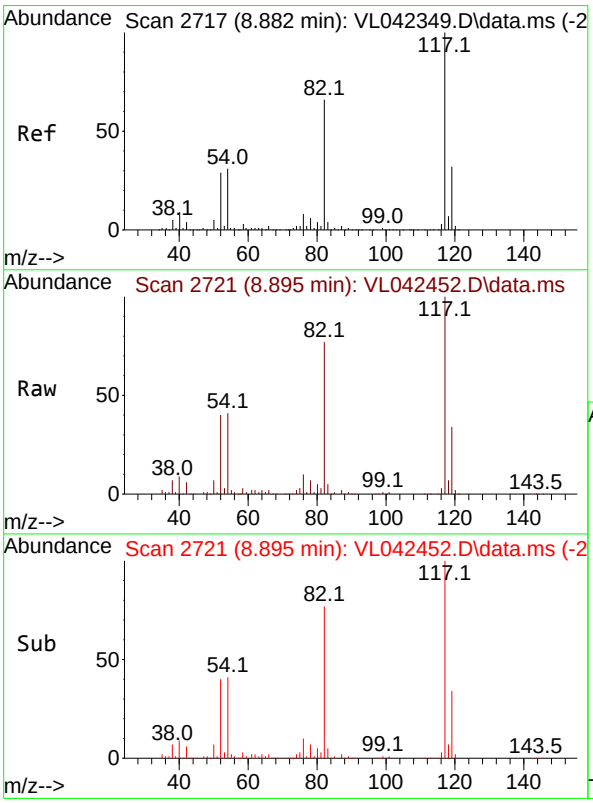
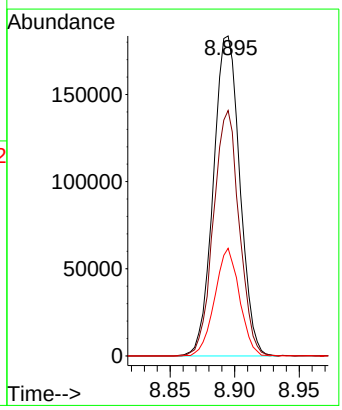
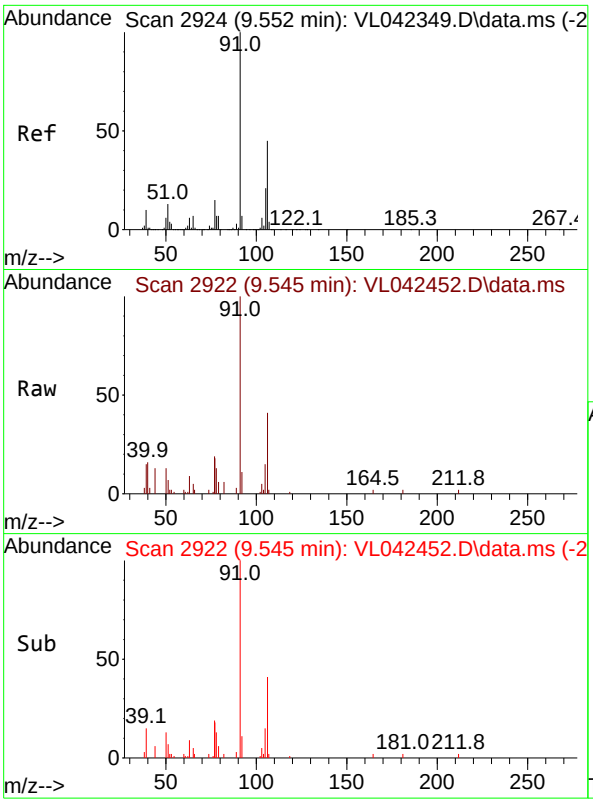



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.895 min Scan# 2721
Delta R.T. 0.013 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

Tgt Ion:117 Resp: 261578

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 74.7 | 57.8 | 86.6 |
| 119 | 31.6 | 25.2 | 37.8 |






#59
m/p-Xylene
Concen: 0.175 ppbv m
RT: 9.545 min Scan# 2
Delta R.T. -0.006 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

Tgt Ion: 91 Resp: 729

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 0.0 | 35.4 | 53.2# |

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025DL

**Manual Integrations**
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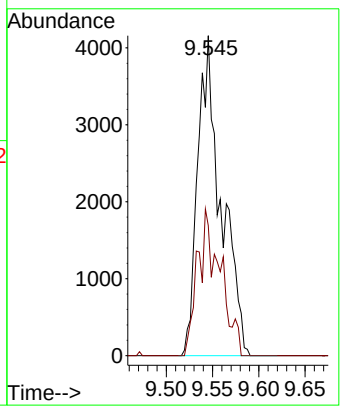
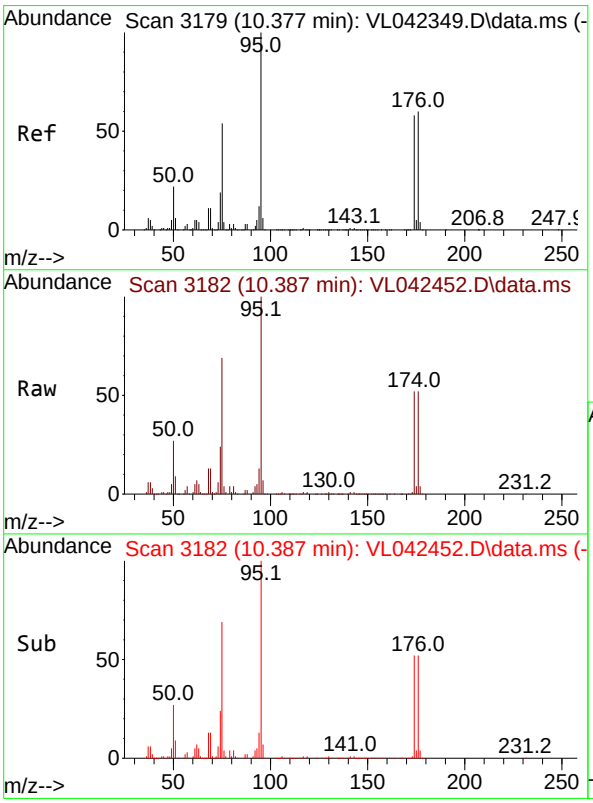
Supervised By :Mahesh Dadoda 04/30/2025

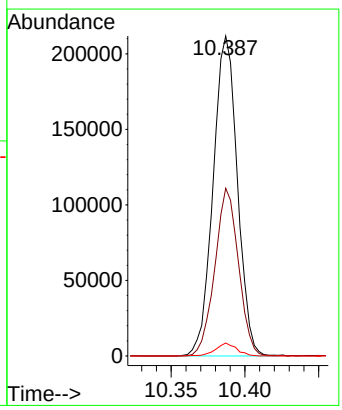



#68
1-Bromo-4-Fluorobenzene
Concen: 11.260 ppbv
RT: 10.387 min Scan# 3182
Delta R.T. 0.010 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

Tgt Ion: 95 Resp: 242040

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 51.1 | 48.5 | 72.7 |
| 175 | 3.5 | 3.7 | 5.5# |



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B9-3-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-20 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042296.D | 1 | | 04/09/25 16:57 | VL040925 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.42 | 2.08 | J | 1.04 | 2.47 | ug/m3 |
| 64-17-5 | Ethanol | 31.7 | 59.7 | EQ | 0.60 | 0.94 | ug/m3 |
| 74-87-3 | Chloromethane | 0.49 | 1.01 | J | 0.21 | 1.03 | ug/m3 |
| 75-01-4 | Vinyl Chloride | 0.010 | 0.030 | U | 0.030 | 0.080 | ug/m3 |
| 74-83-9 | Bromomethane | 0.14 | 0.54 | U | 0.54 | 1.94 | ug/m3 |
| 75-00-3 | Chloroethane | 0.17 | 0.45 | U | 0.45 | 1.32 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | 0.28 | 0.83 | J | 0.38 | 1.47 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | 0.21 | 1.18 | J | 0.90 | 2.81 | ug/m3 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.16 | 1.23 | U | 1.23 | 3.83 | ug/m3 |
| 76-14-2 | Dichlorotetrafluoroethane | 0.090 | 0.63 | U | 0.63 | 3.49 | ug/m3 |
| 593-60-2 | Bromoethene | 0.12 | 0.52 | U | 0.52 | 2.19 | ug/m3 |
| 75-65-0 | tert-Butyl alcohol | 0.19 | 0.58 | U | 0.58 | 1.52 | ug/m3 |
| 142-82-5 | Heptane | 0.16 | 0.66 | J | 0.45 | 2.05 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | 39.0 | 95.9 | E | 0.17 | 1.23 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethene | 0.14 | 0.56 | U | 0.56 | 1.98 | ug/m3 |
| 67-64-1 | Acetone | 8.00 | 19.0 | | 0.57 | 1.19 | ug/m3 |
| 75-15-0 | Carbon Disulfide | 0.16 | 0.50 | U | 0.50 | 1.56 | ug/m3 |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.12 | 0.43 | U | 0.43 | 1.80 | ug/m3 |
| 75-09-2 | Methylene Chloride | 1.30 | 4.52 | | 0.66 | 1.74 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.19 | 0.75 | U | 0.75 | 1.98 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | 0.13 | 0.53 | U | 0.53 | 2.02 | ug/m3 |
| 110-82-7 | Cyclohexane | 0.22 | 0.76 | U | 0.76 | 1.72 | ug/m3 |
| 78-93-3 | 2-Butanone | 2.50 | 7.37 | | 0.35 | 1.47 | ug/m3 |
| 56-23-5 | Carbon Tetrachloride | 0.080 | 0.50 | | 0.060 | 0.19 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.090 | 0.36 | U | 0.36 | 1.98 | ug/m3 |
| 67-66-3 | Chloroform | 0.080 | 0.39 | U | 0.39 | 2.44 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.010 | 0.050 | U | 0.050 | 0.16 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | 0.10 | 0.47 | U | 0.47 | 2.34 | ug/m3 |
| 71-43-2 | Benzene | 0.28 | 0.89 | J | 0.29 | 1.60 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | 0.090 | 0.36 | U | 0.36 | 2.02 | ug/m3 |
| 79-01-6 | Trichloroethene | 0.020 | 0.11 | U | 0.11 | 0.16 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | 0.11 | 0.51 | U | 0.51 | 2.31 | ug/m3 |
| 75-27-4 | Bromodichloromethane | 0.080 | 0.54 | U | 0.54 | 3.35 | ug/m3 |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.090 | 0.37 | U | 0.37 | 2.05 | ug/m3 |
| 108-88-3 | Toluene | 0.53 | 2.00 | | 0.41 | 1.88 | ug/m3 |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B9-3-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-20 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042296.D | 1 | | 04/09/25 16:57 | VL040925 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.060 | 0.27 | U | 0.27 | 2.27 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.060 | 0.27 | U | 0.27 | 2.27 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.070 | 0.38 | U | 0.38 | 2.73 | ug/m3 |
| 124-48-1 | Dibromochloromethane | 0.070 | 0.60 | U | 0.60 | 4.26 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane | 0.070 | 0.54 | U | 0.54 | 0.77 | ug/m3 |
| 127-18-4 | Tetrachloroethene | 0.020 | 0.14 | U | 0.14 | 0.20 | ug/m3 |
| 108-90-7 | Chlorobenzene | 0.13 | 0.60 | J | 0.37 | 2.30 | ug/m3 |
| 100-41-4 | Ethyl Benzene | 0.12 | 0.52 | U | 0.52 | 2.17 | ug/m3 |
| 179601-23-1 | m/p-Xylene | 0.22 | 0.96 | J | 0.91 | 4.34 | ug/m3 |
| 95-47-6 | o-Xylene | 0.13 | 0.56 | J | 0.52 | 2.17 | ug/m3 |
| 100-42-5 | Styrene | 0.11 | 0.47 | U | 0.47 | 2.13 | ug/m3 |
| 75-25-2 | Bromoform | 0.060 | 0.62 | U | 0.62 | 5.17 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.010 | 0.070 | U | 0.070 | 0.21 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | 0.11 | 0.57 | U | 0.57 | 2.59 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.11 | 0.54 | U | 0.54 | 2.46 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.080 | 0.39 | U | 0.39 | 2.46 | ug/m3 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.080 | 0.48 | U | 0.48 | 3.01 | ug/m3 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.050 | 0.30 | U | 0.30 | 3.01 | ug/m3 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.080 | 0.48 | U | 0.48 | 3.01 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.090 | 0.67 | U | 0.67 | 3.71 | ug/m3 |
| 87-68-3 | Hexachloro-1,3-Butadiene | 0.090 | 0.96 | U | 0.96 | 5.33 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | 0.13 | 0.29 | U | 0.29 | 1.11 | ug/m3 |
| 91-20-3 | Naphthalene | 0.080 | 0.42 | U | 0.42 | 0.52 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | 0.12 | 0.59 | U | 0.59 | 2.46 | ug/m3 |
| 110-54-3 | Hexane | 1.50 | 5.29 | | 0.39 | 1.76 | ug/m3 |
| 107-05-1 | Allyl Chloride | 0.15 | 0.47 | U | 0.47 | 1.57 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | 0.21 | 0.76 | U | 0.76 | 1.80 | ug/m3 |
| 80-62-6 | Methyl Methacrylate | 0.090 | 0.37 | U | 0.37 | 2.05 | ug/m3 |
| **SURROGATES** | | | | | | | |
| 460-00-4 | 1-Bromo-4-Fluorobenzene | 9.40 | | | 70 (65) - 130 (135) | 94% | SPK: 10 |
| **INTERNAL STANDARDS** | | | | | | | |
| 74-97-5 | Bromochloromethane | 162000 | | 2.787 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 385000 | | 3.959 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 329000 | | 8.878 | | | |
| **TENTITIVE IDENTIFIED COMPOUNDS** | | | | | | | |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B9-3-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-20 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042296.D | 1 | | 04/09/25 16:57 | VL040925 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 75-45-6 | Chlorodifluoromethane | 0.56 | | J | | 1.48 | ppbv |
| 115-07-1 | Propene | 3.10 | | J | | 1.49 | ppbv |
| 000106-97-8 | Butane | 1.30 | | J | | 1.62 | ppbv |
| 000100-52-7 | Benzaldehyde | 1.10 | | J | | 10.8 | ppbv |

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042296.D
Acq On : 09 Apr 2025 16:57
Operator : SY/MD
Sample : Q1665-20
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 01:46:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-3-3242025

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) Bromochloromethane | 2.787 | 49 | 161865 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.959 | 114 | 384782 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.878 | 117 | 329132 | 10.000 | ppbv | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95 | 253889 | 9.393 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 93.900% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.499 | 85 | 10098 | 0.423 | ppbv | | 94 |
| 3) Chlorodifluoromethane | 1.476 | 51 | 13698m | 0.561 | ppbv | | |
| 4) Chloromethane | 1.531 | 50 | 4745 | 0.486 | ppbv | | 96 |
| 9) Propene | 1.486 | 41 | 34342m | 3.069 | ppbv | | |
| 10) Heptane | 4.981 | 43 | 4849m | 0.163 | ppbv | | |
| 11) Trichlorofluoromethane | 1.877 | 101 | 4945 | 0.213 | ppbv | # | 74 |
| 13) Ethanol | 1.722 | 45 | 33576 | 31.739 | ppbv | | 81 |
| 15) Acetone | 1.835 | 43 | 182118 | 8.045 | ppbv | | 92 |
| 19) Isopropyl Alcohol | 1.884 | 45 | 498343 | 39.016 | ppbv | # | 32 |
| 20) Methylene Chloride | 2.062 | 84 | 11004 | 1.305 | ppbv | | 96 |
| 26) Hexane | 2.826 | 57 | 33283 | 1.467 | ppbv | # | 36 |
| 34) 2-Butanone | 2.560 | 43 | 71103 | 2.548 | ppbv | | 95 |
| 35) Carbon Tetrachloride | 3.758 | 117 | 2271 | 0.076 | ppbv | # | 90 |
| 36) Benzene | 3.654 | 78 | 10547 | 0.276 | ppbv | # | 94 |
| 41) Tetrahydrofuran | 3.062 | 42 | 4483 | 0.279 | ppbv | | 92 |
| 53) Toluene | 6.930 | 91 | 24055 | 0.532 | ppbv | | 98 |
| 57) Chlorobenzene | 8.914 | 112 | 3957m | 0.127 | ppbv | | |
| 59) m/p-Xylene | 9.526 | 91 | 10336m | 0.221 | ppbv | | |
| 60) o-Xylene | 9.963 | 91 | 5830 | 0.125 | ppbv | | 99 |

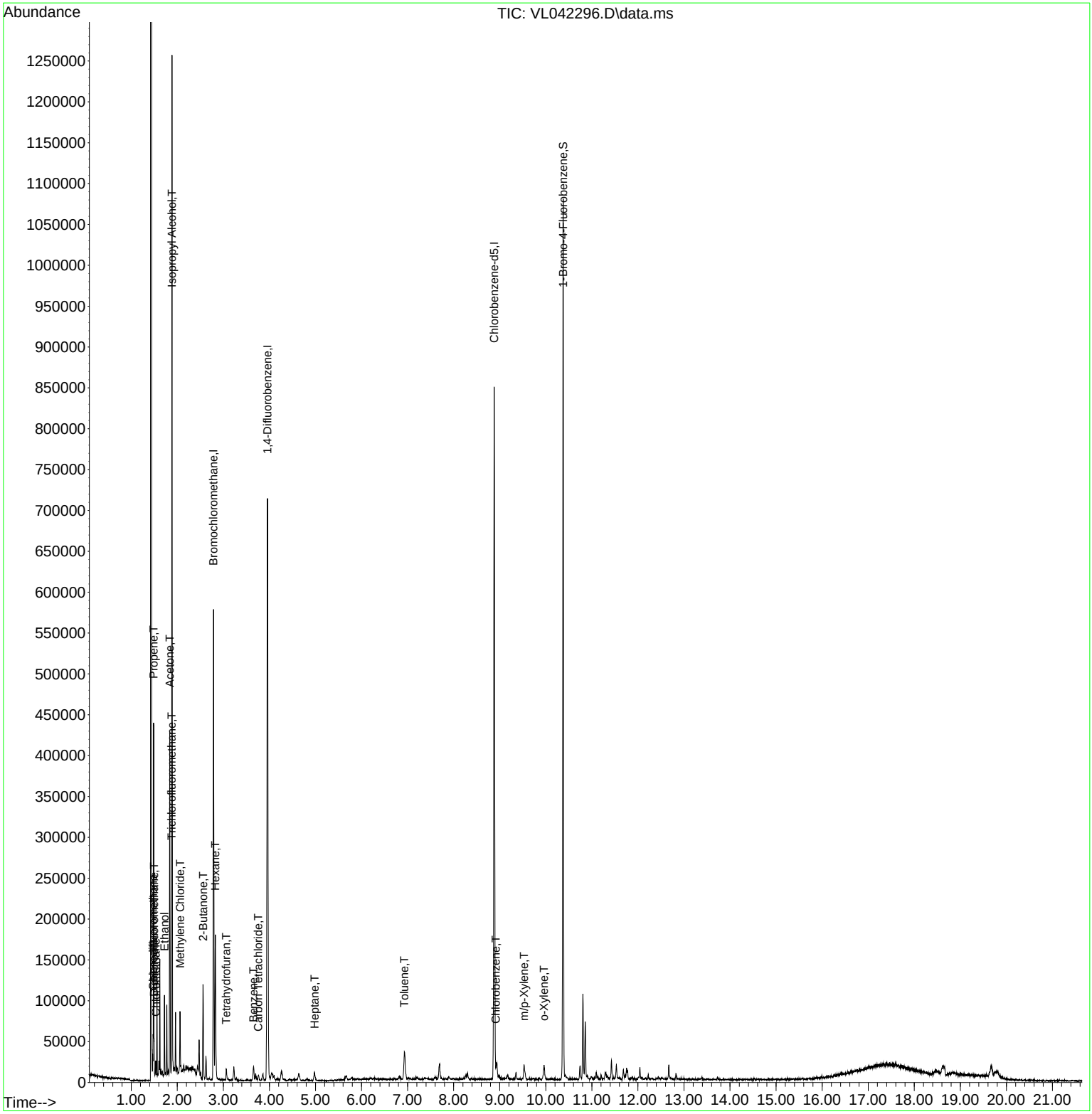
(#) = qualifier out of range (m) = manual integration (+) = signals summed

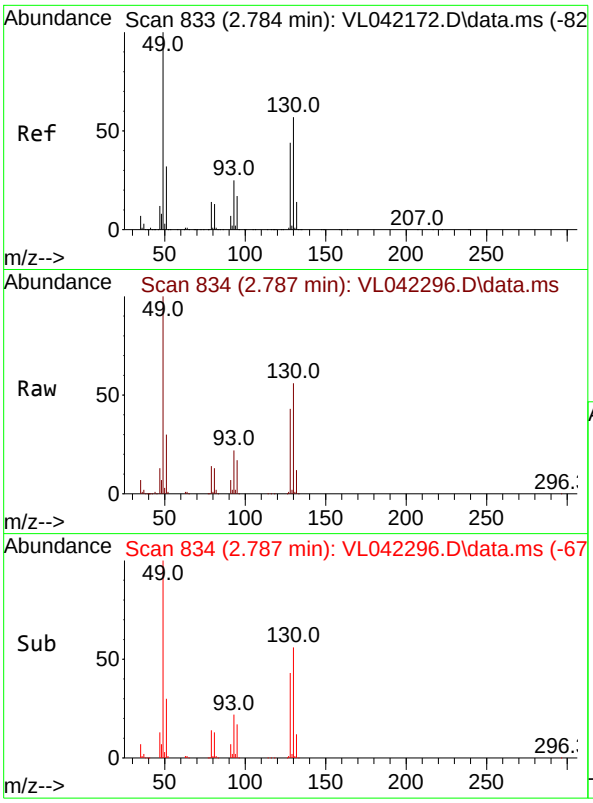
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042296.D
Acq On : 09 Apr 2025 16:57
Operator : SY/MD
Sample : Q1665-20
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 01:46:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-3-3242025

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

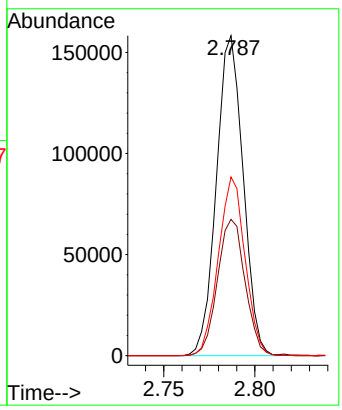





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion: 49 Resp: 16186

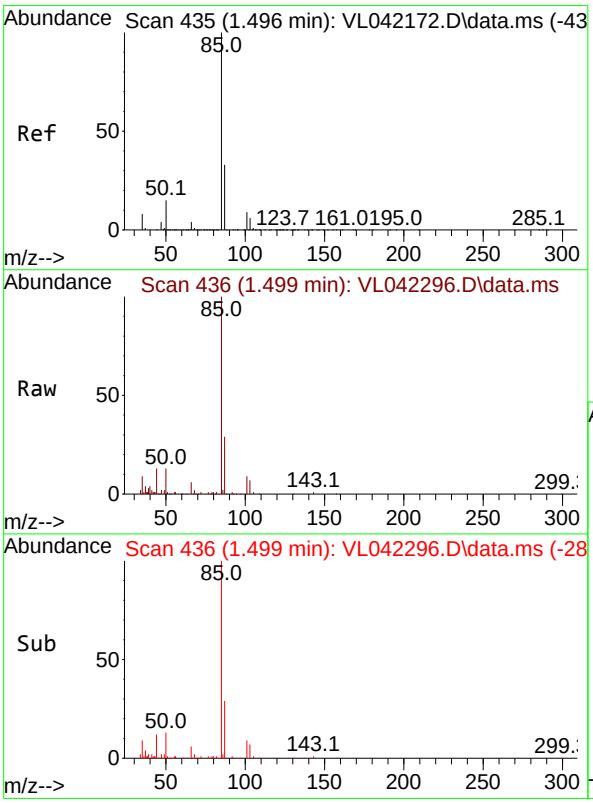
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 43.9 | 22.9 | 68.5 |
| 130 | 55.7 | 28.8 | 86.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-3-3242025

**Manual Integrations**
**APPROVED**

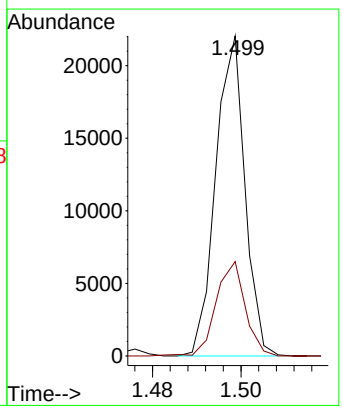
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

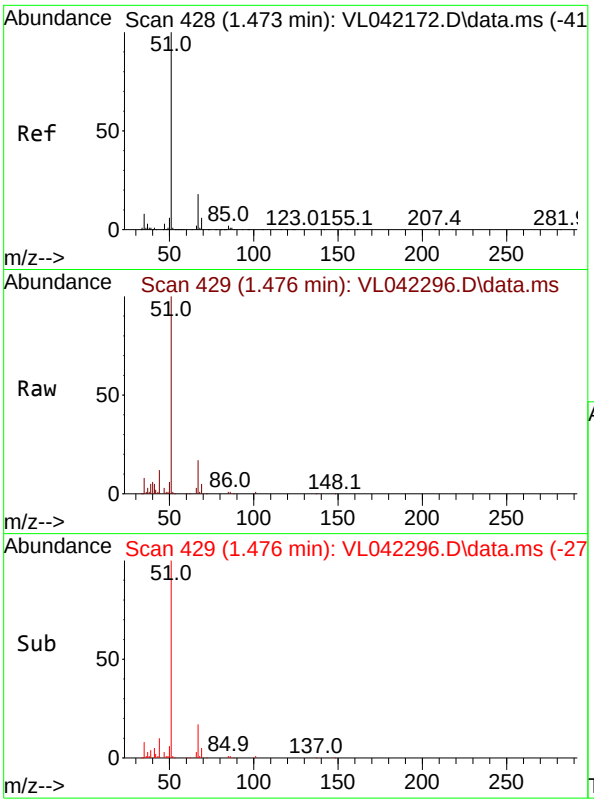



#2
Dichlorodifluoromethane
Concen: 0.423 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion: 85 Resp: 10098

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 29.5 | 26.1 | 39.1 |

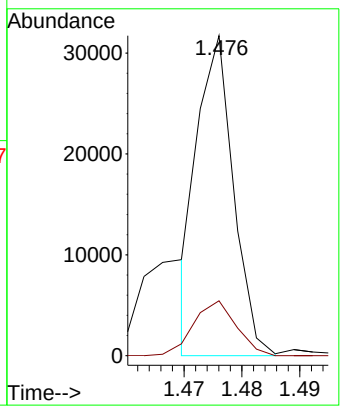





#3
Chlorodifluoromethane
Concen: 0.561 ppbv m
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion: 51 Resp: 1369

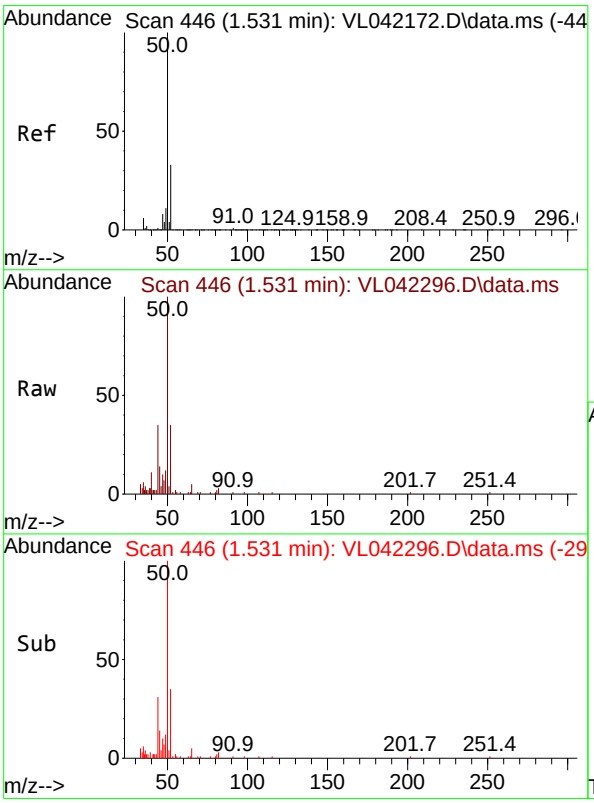
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 2.8 | 15.0 | 22.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-3-3242025

**Manual Integrations**
**APPROVED**

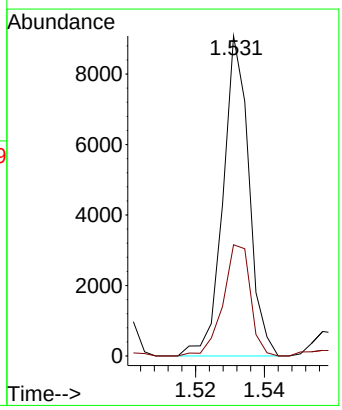
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

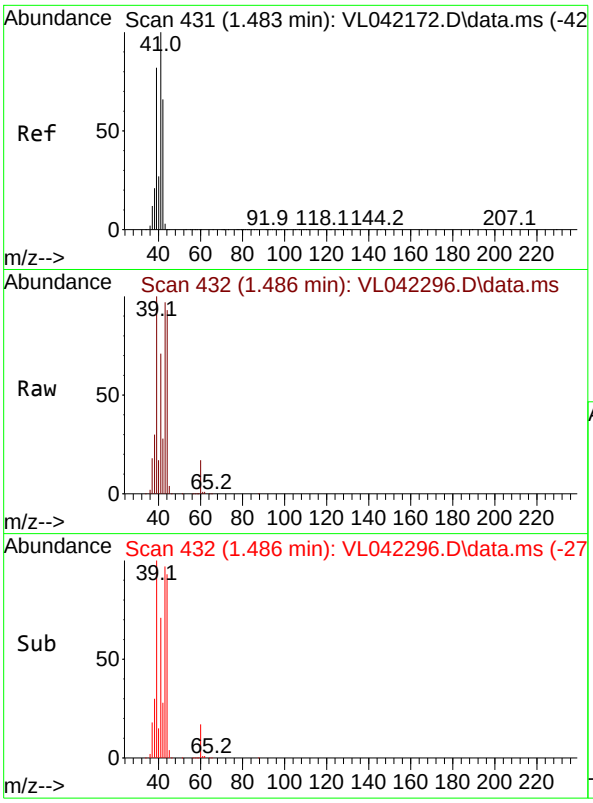



#4
Chloromethane
Concen: 0.486 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion: 50 Resp: 4745

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 34.8 | 26.1 | 39.1 |

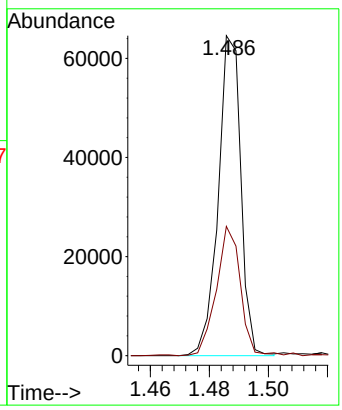





#9
Propene
Concen: 3.069 ppbv m
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion: 41 Resp: 3434

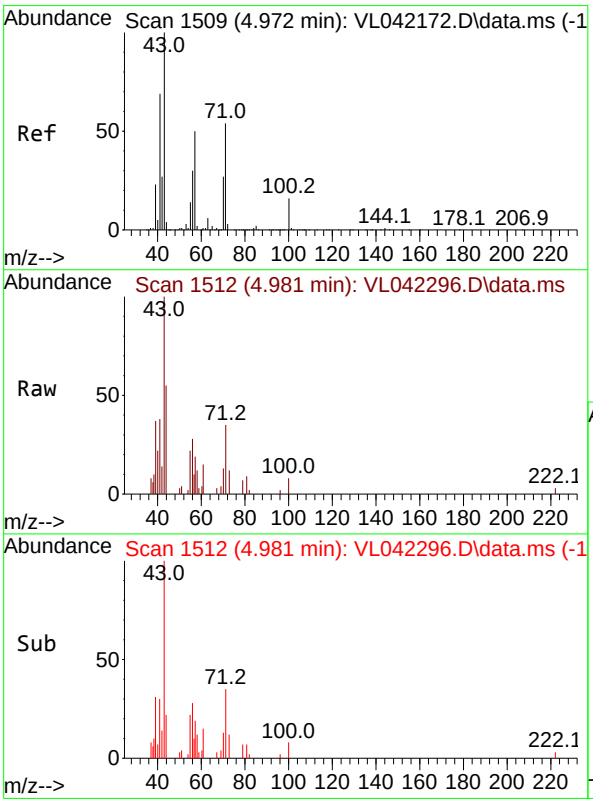
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 87.7 | 55.4 | 83.2# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-3-3242025

**Manual Integrations**
**APPROVED**

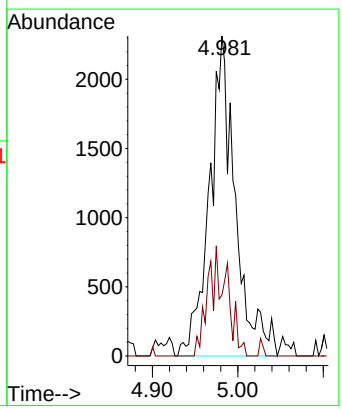
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

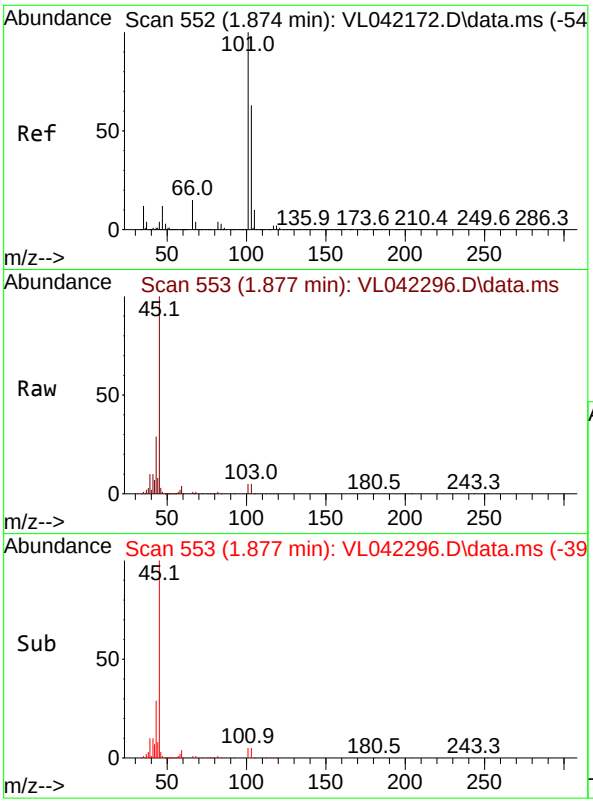



#10
Heptane
Concen: 0.163 ppbv m
RT: 4.981 min Scan# 1512
Delta R.T. 0.009 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion: 43 Resp: 4849

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 0.0 | 39.4 | 59.2# |

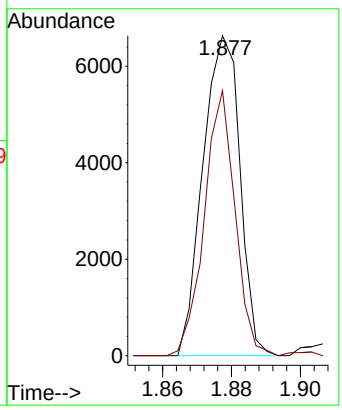





#11
Trichlorofluoromethane
Concen: 0.213 ppbv
RT: 1.877 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion:101 Resp: 494

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 82.8 | 50.2 | 75.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-3-3242025

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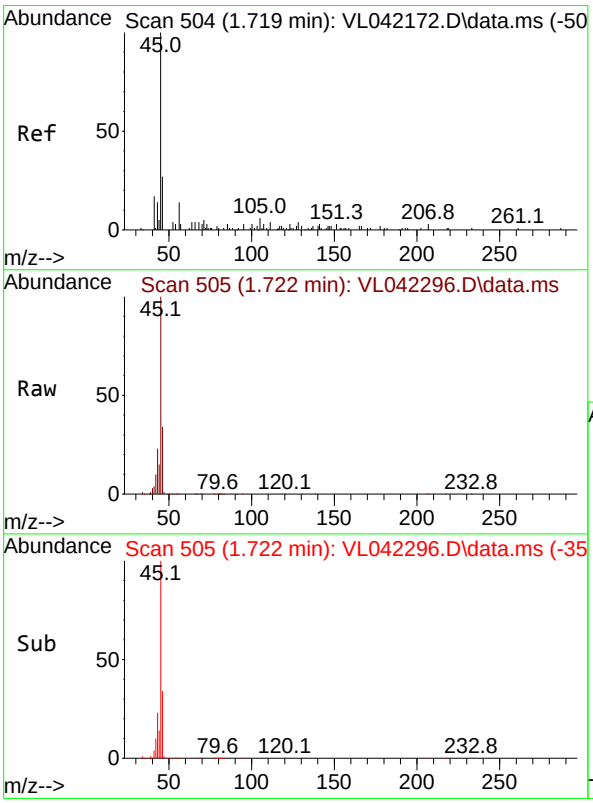
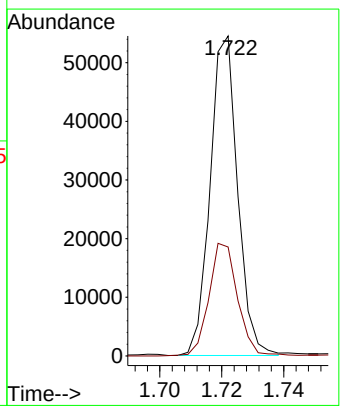
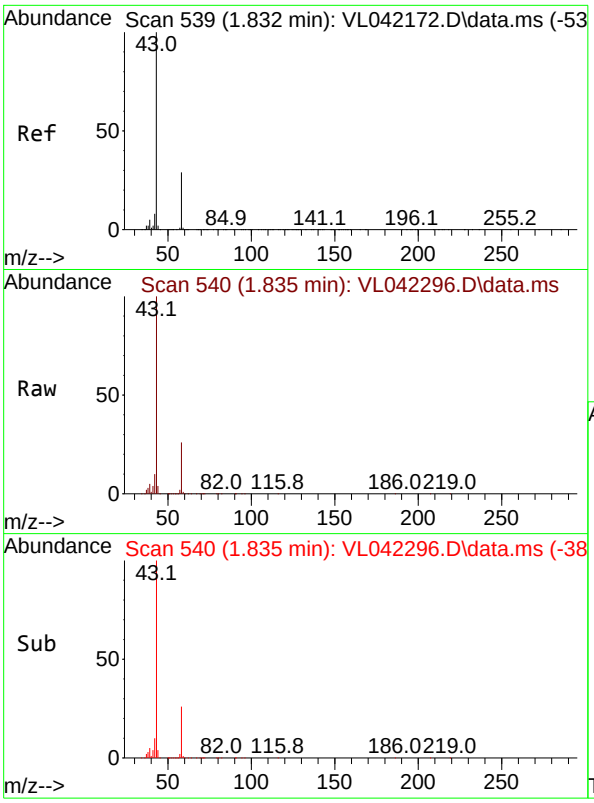



#13
Ethanol
Concen: 31.739 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion: 45 Resp: 33576

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 37.1 | 20.2 | 80.8 |

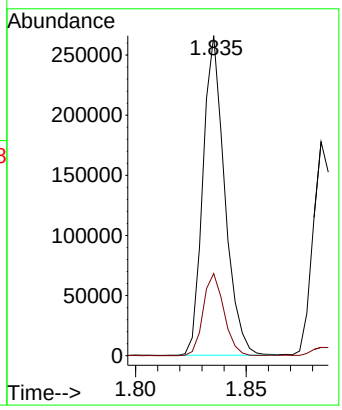





#15
Acetone
Concen: 8.045 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion: 43 Resp: 18211

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 24.5 | 23.2 | 34.8 |

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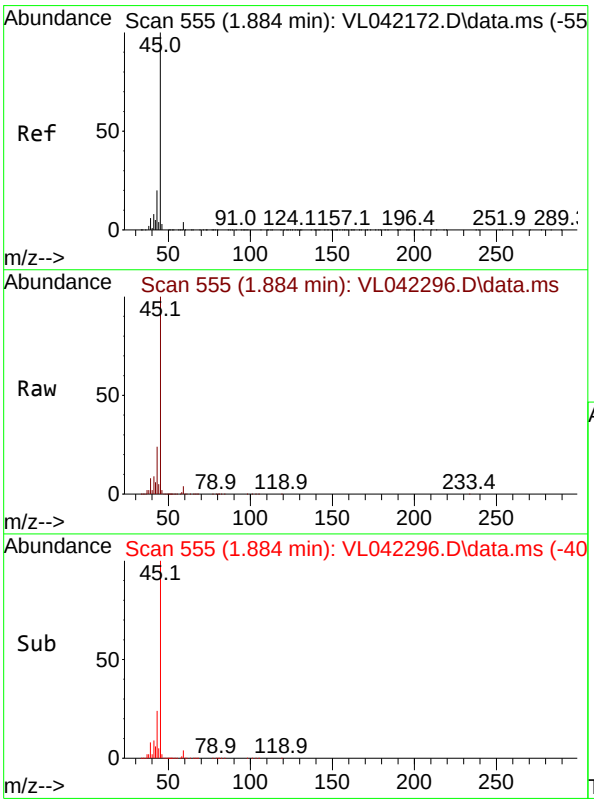
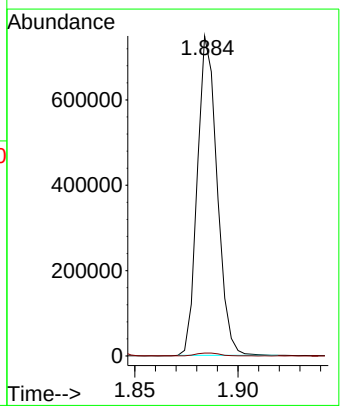
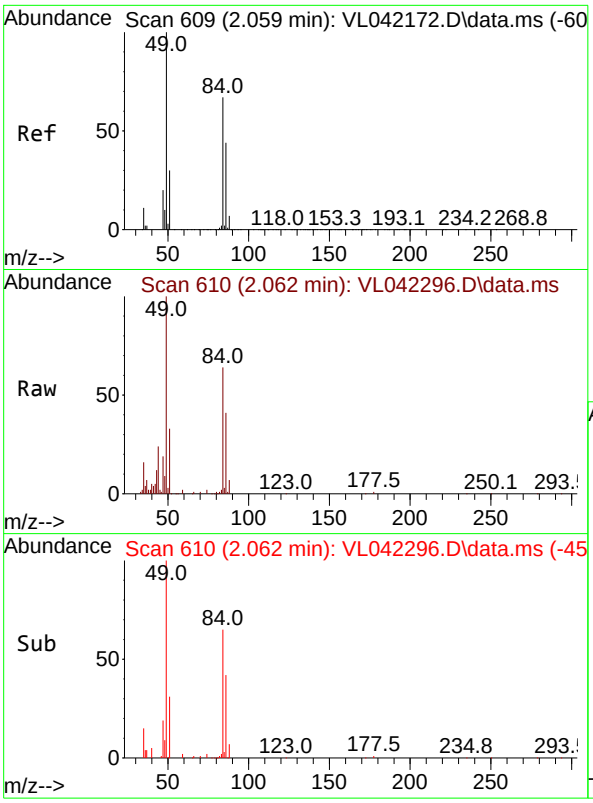



#19
Isopropyl Alcohol
Concen: 39.016 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion: 45 Resp: 498343

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 1.2 | 36.9 | 55.3# |

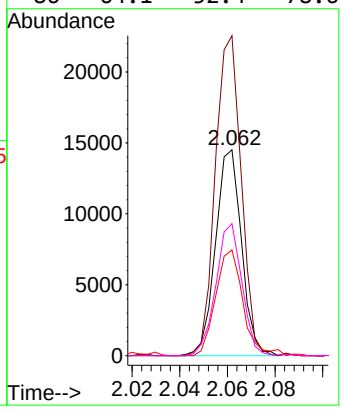





#20
Methylene Chloride
Concen: 1.305 ppbv
RT: 2.062 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion: 84 Resp: 1100

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 155.3 | 120.2 | 180.4 |
| 51 | 51.4 | 37.4 | 56.0 |
| 86 | 64.1 | 52.4 | 78.6 |

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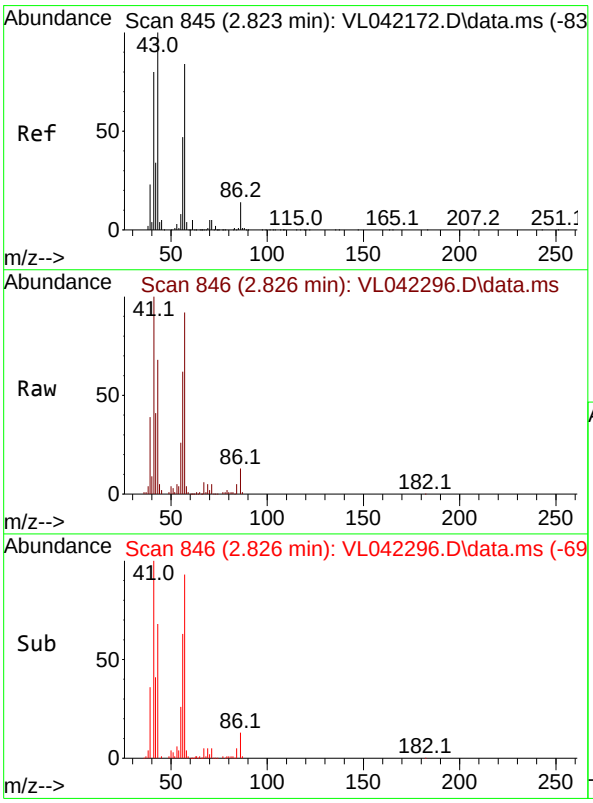
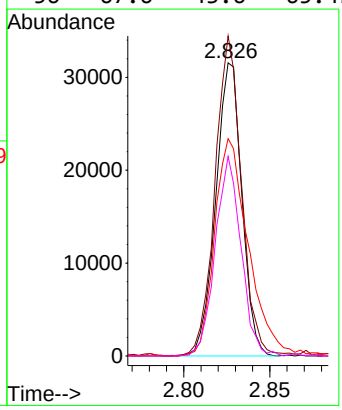
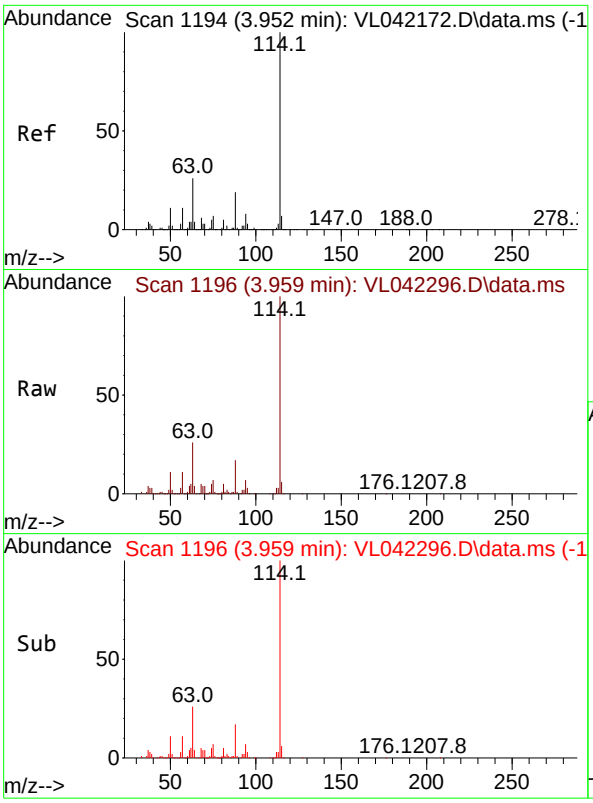



#26
Hexane
Concen: 1.467 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion: 57 Resp: 33283

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 112.6 | 76.6 | 114.8 |
| 43 | 96.8 | 207.8 | 311.8# |
| 56 | 67.6 | 43.6 | 65.4# |

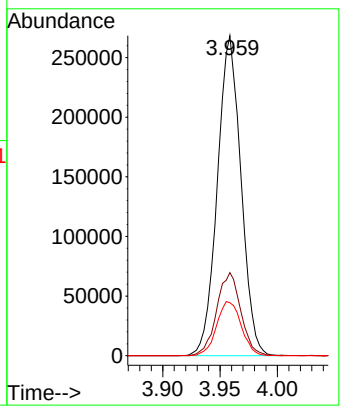





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion:114 Resp: 38478

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 26.6 | 20.7 | 31.1 |
| 88 | 17.6 | 15.0 | 22.4 |

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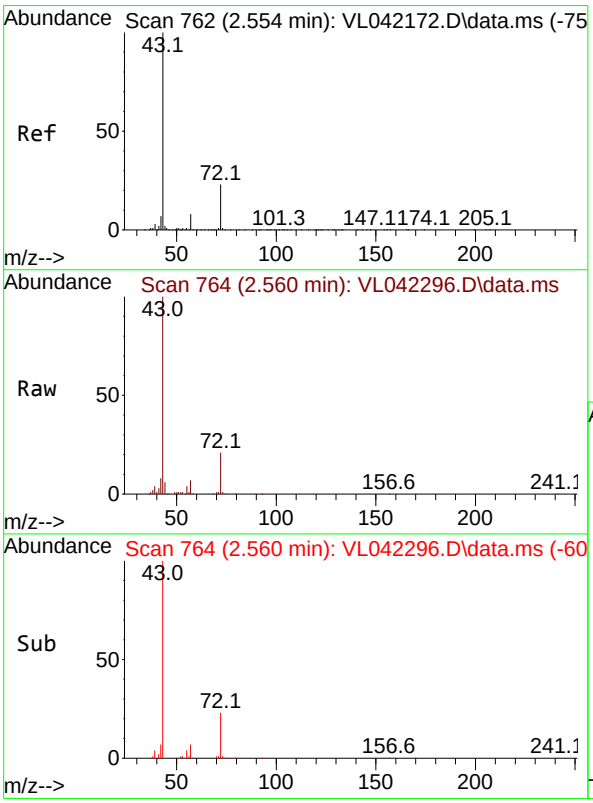
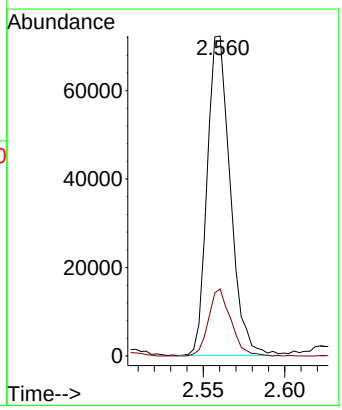
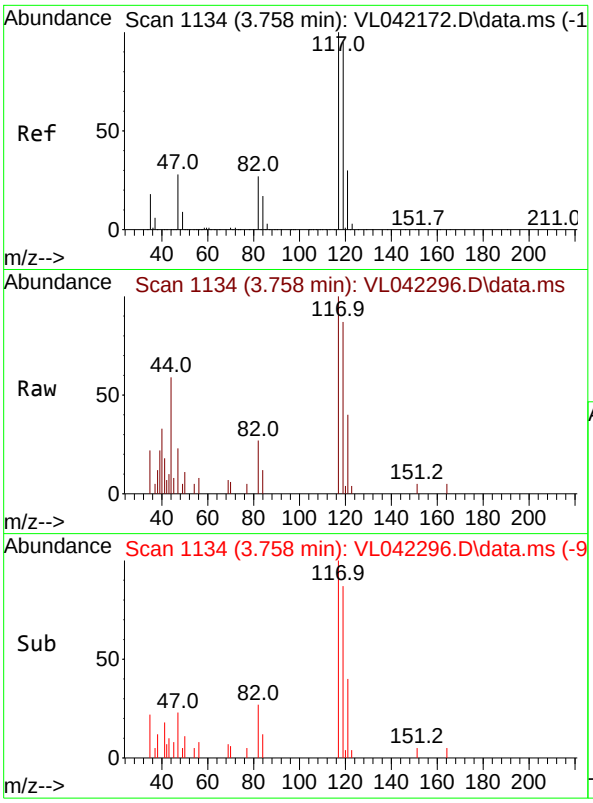



#34
2-Butanone
Concen: 2.548 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.006 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion: 43 Resp: 71103

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 20.4 | 18.2 | 27.2 |

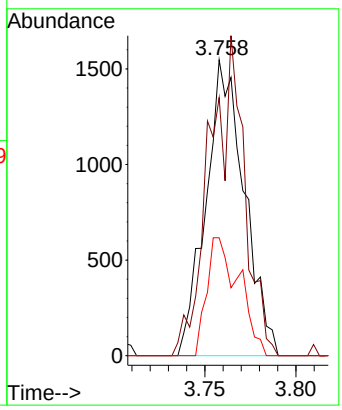





#35
Carbon Tetrachloride
Concen: 0.076 ppbv
RT: 3.758 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion:117 Resp: 227

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 87.2 | 76.2 | 114.2 |
| 121 | 39.9 | 24.2 | 36.4# |

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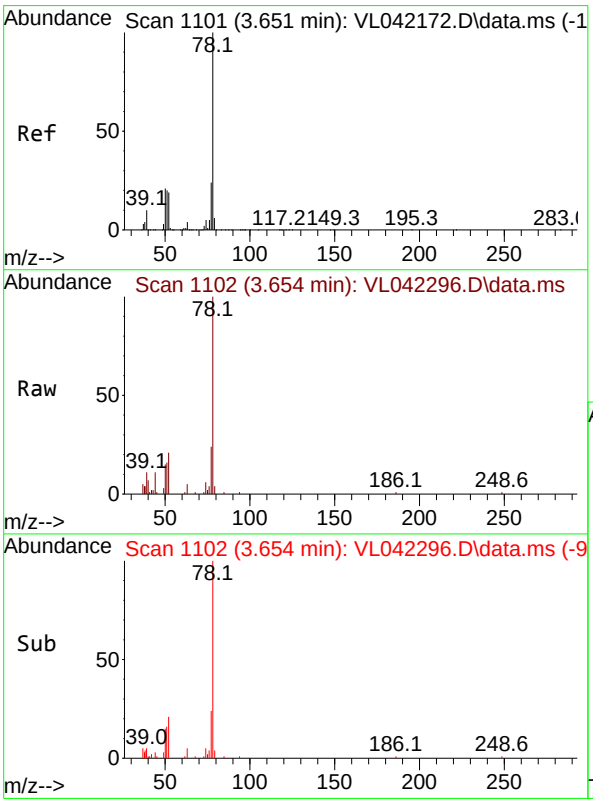
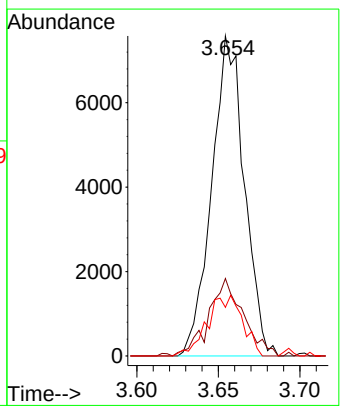
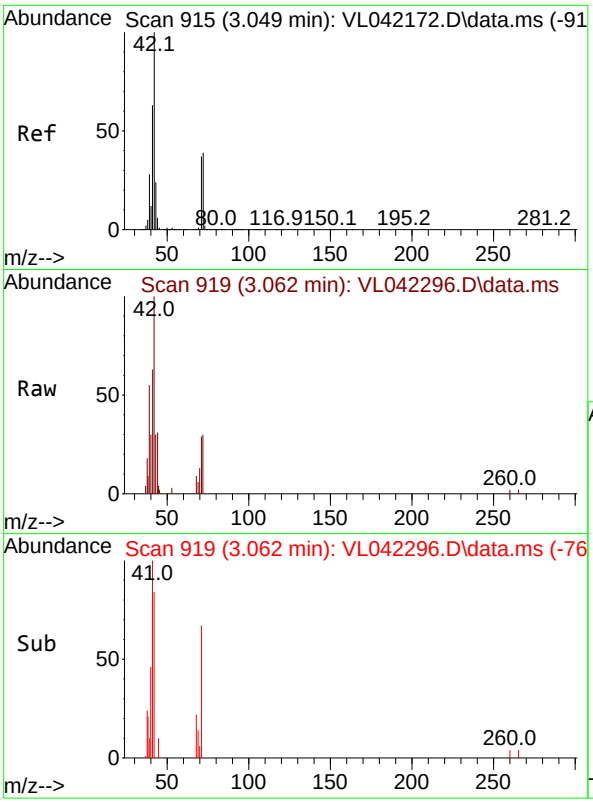



#36
Benzene
Concen: 0.276 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion: 78 Resp: 10547

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.2 | 19.1 | 28.7 |
| 50 | 15.2 | 16.6 | 24.8# |






#41
Tetrahydrofuran
Concen: 0.279 ppbv
RT: 3.062 min Scan# 91
Delta R.T. 0.013 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion: 42 Resp: 448

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 36.6 | 31.4 | 47.0 |
| 71 | 30.6 | 30.2 | 45.4 |

**Instrument :**
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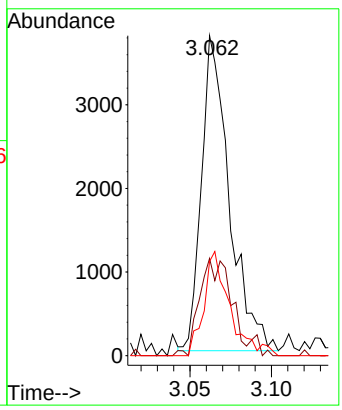
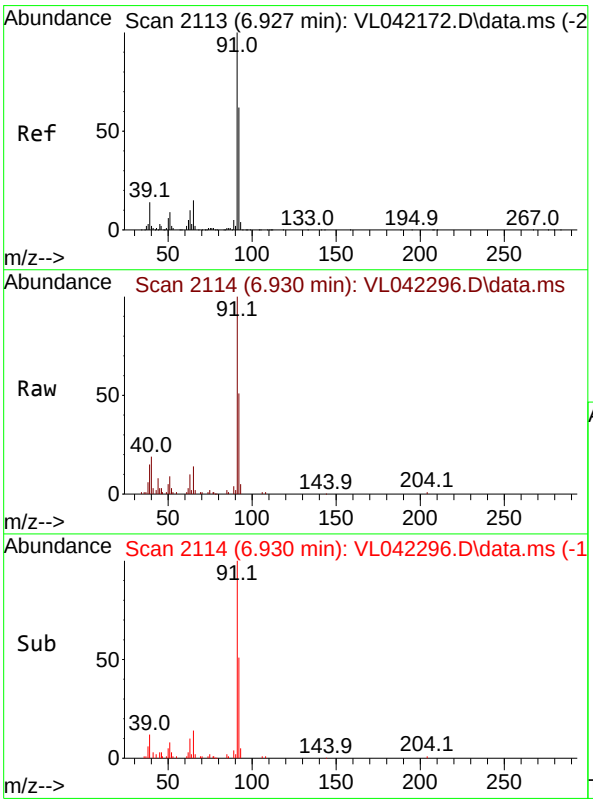
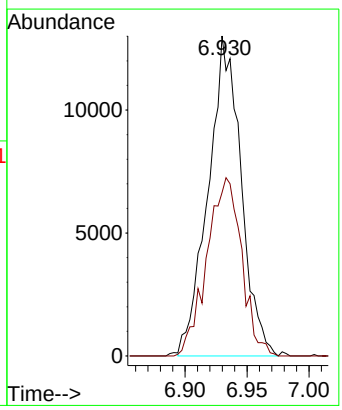


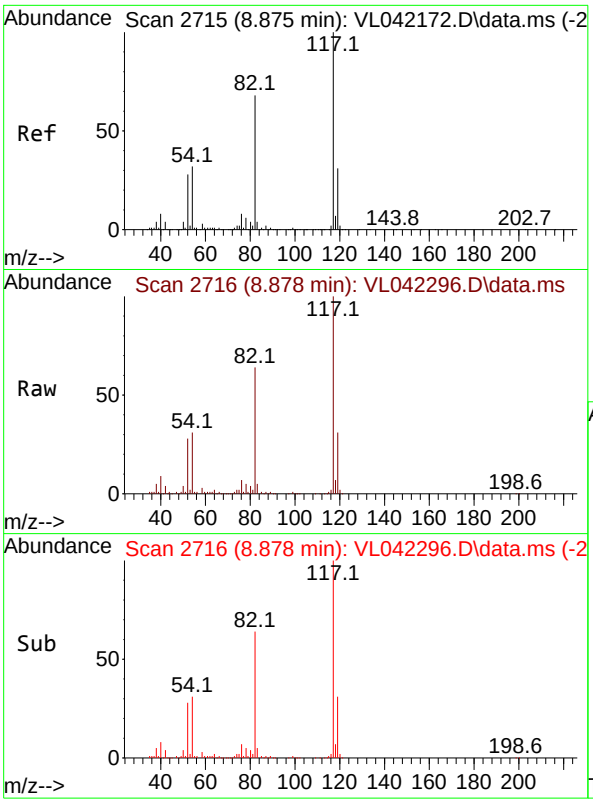




#53
Toluene
Concen: 0.532 ppbv
RT: 6.930 min Scan# 2114
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion: 91 Resp: 24055

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 58.8 | 48.4 | 72.6 |

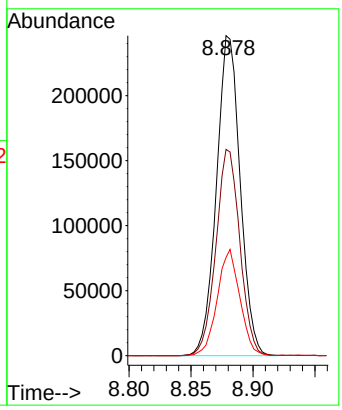





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion:117 Resp: 32913

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 64.9 | 55.8 | 83.6 |
| 119 | 31.8 | 25.5 | 38.3 |

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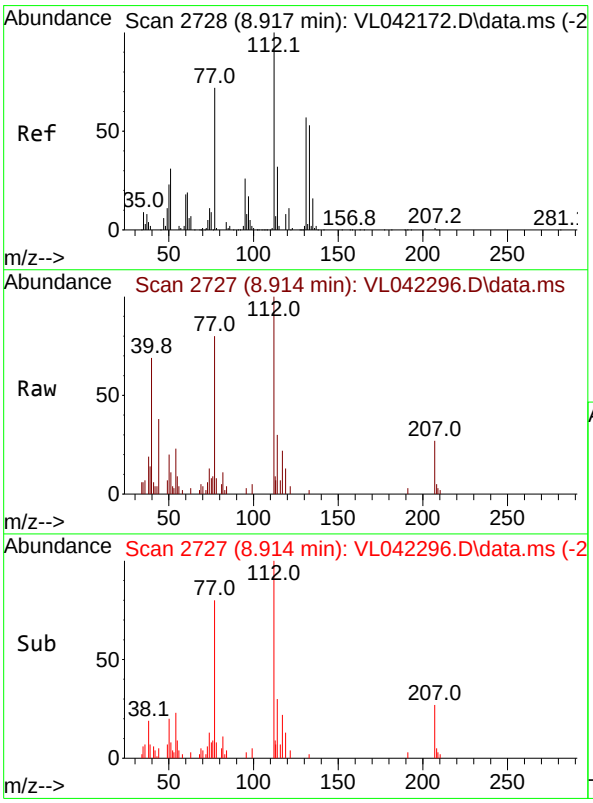
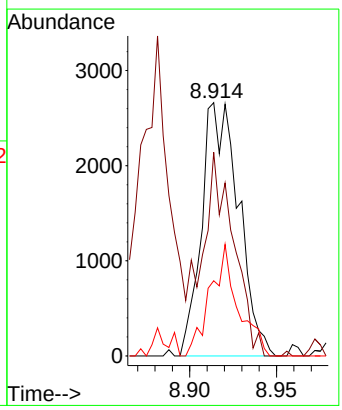
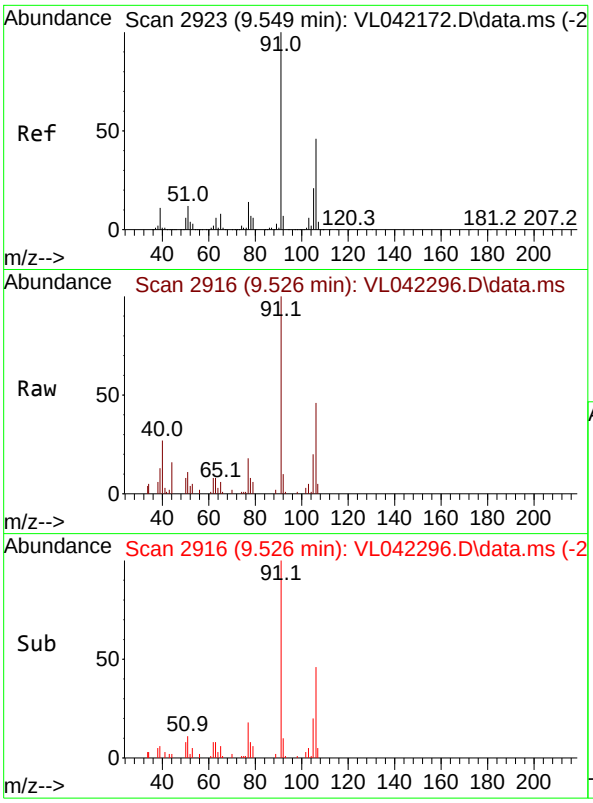



#57
Chlorobenzene
Concen: 0.127 ppbv m
RT: 8.914 min Scan# 2727
Delta R.T. -0.004 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion:112 Resp: 3957

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 80.4 | 58.2 | 87.2 |
| 114 | 29.7 | 29.1 | 35.5 |

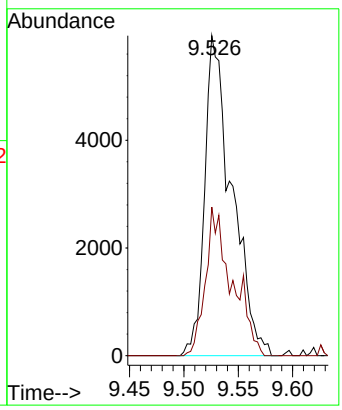





#59
m/p-Xylene
Concen: 0.221 ppbv m
RT: 9.526 min Scan# 2
Delta R.T. -0.023 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion: 91 Resp: 1033

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 0.0 | 36.4 | 54.6 |

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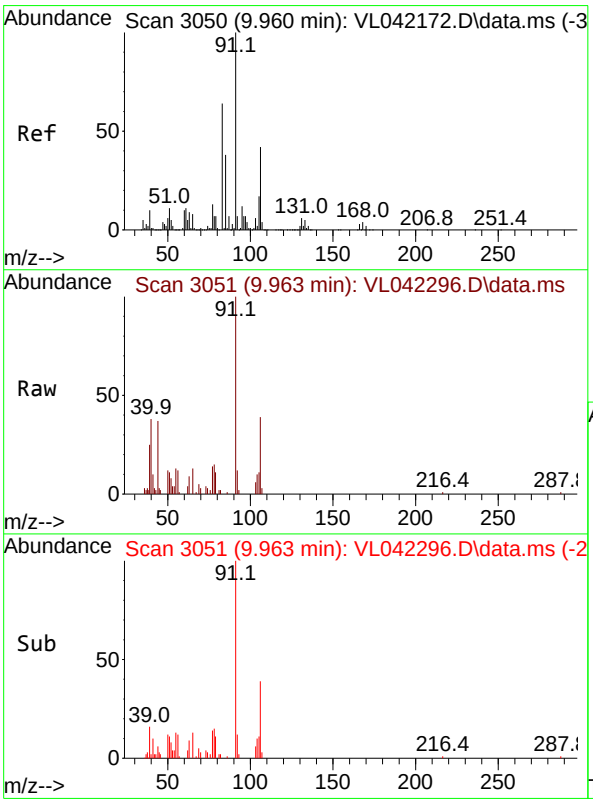
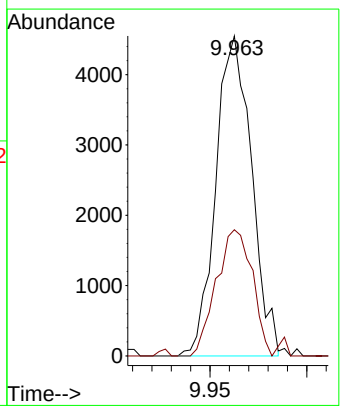
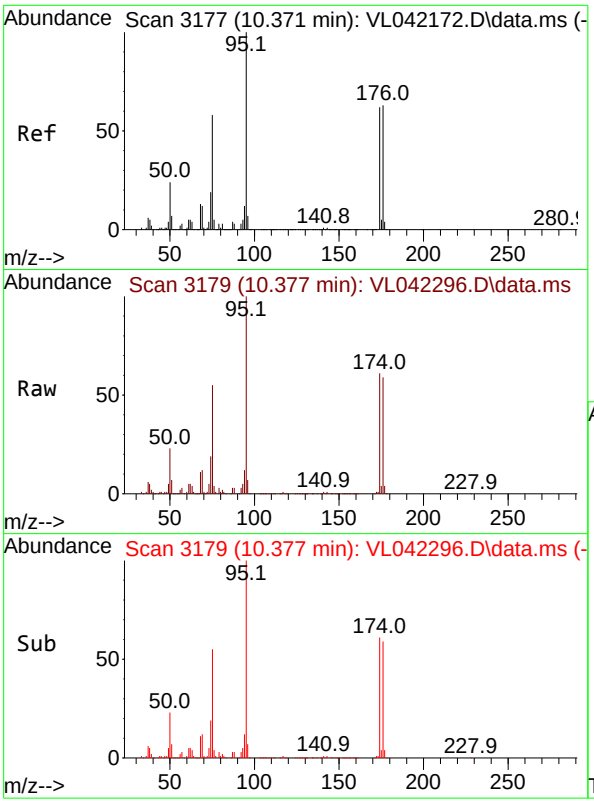



#60
o-Xylene
Concen: 0.125 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion: 91 Resp: 5830

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 41.2 | 20.8 | 62.5 |

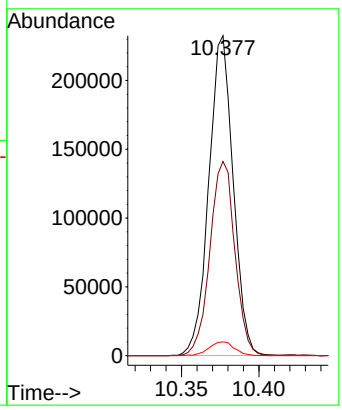





#68
1-Bromo-4-Fluorobenzene
Concen: 9.393 ppbv
RT: 10.377 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion: 95 Resp: 25388

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 62.7 | 50.6 | 76.0 |
| 175 | 4.6 | 3.8 | 5.6 |

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**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042296.D
Acq On : 09 Apr 2025 16:57
Operator : SY/MD
Sample : Q1665-20
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-3-3242025

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

Signal : TIC: VL042296.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.431 | 410 | 415 | 420 | rBV | 4147564 | 4613089 | 100.00% | 41.703% |
| 2 | 1.486 | 430 | 432 | 440 | rVB2 | 431303 | 237206 | 5.14% | 2.144% |
| 3 | 1.557 | 451 | 454 | 459 | rVB | 121041 | 68488 | 1.48% | 0.619% |
| 4 | 1.622 | 470 | 474 | 478 | rVB | 140859 | 77881 | 1.69% | 0.704% |
| 5 | 1.722 | 500 | 505 | 509 | rBV | 97715 | 61161 | 1.33% | 0.553% |
| 6 | 1.774 | 516 | 521 | 526 | rBV | 86096 | 57793 | 1.25% | 0.522% |
| 7 | 1.835 | 535 | 540 | 549 | rBV | 420077 | 335010 | 7.26% | 3.029% |
| 8 | 1.884 | 549 | 555 | 568 | rVV | 1245434 | 854542 | 18.52% | 7.725% |
| 9 | 1.962 | 575 | 579 | 584 | rVB | 72958 | 50416 | 1.09% | 0.456% |
| 10 | 2.059 | 599 | 609 | 614 | rBV2 | 75192 | 67543 | 1.46% | 0.611% |
| 11 | 2.557 | 756 | 763 | 775 | rBV | 116113 | 116075 | 2.52% | 1.049% |
| 12 | 2.787 | 824 | 834 | 840 | rBV | 575581 | 594126 | 12.88% | 5.371% |
| 13 | 2.826 | 840 | 846 | 858 | rVB2 | 176209 | 207363 | 4.50% | 1.875% |
| 14 | 3.959 | 1181 | 1196 | 1212 | rBV | 711852 | 1050717 | 22.78% | 9.499% |
| 15 | 6.930 | 2102 | 2114 | 2128 | rBV4 | 33782 | 74089 | 1.61% | 0.670% |
| 16 | 8.878 | 2705 | 2716 | 2727 | rBV | 847108 | 1165848 | 25.27% | 10.540% |
| 17 | 10.377 | 3162 | 3179 | 3188 | rBV | 1078468 | 1215713 | 26.35% | 10.990% |
| 18 | 10.807 | 3303 | 3312 | 3320 | rBV2 | 104007 | 129076 | 2.80% | 1.167% |
| 19 | 10.856 | 3320 | 3327 | 3335 | rVB2 | 67442 | 85501 | 1.85% | 0.773% |

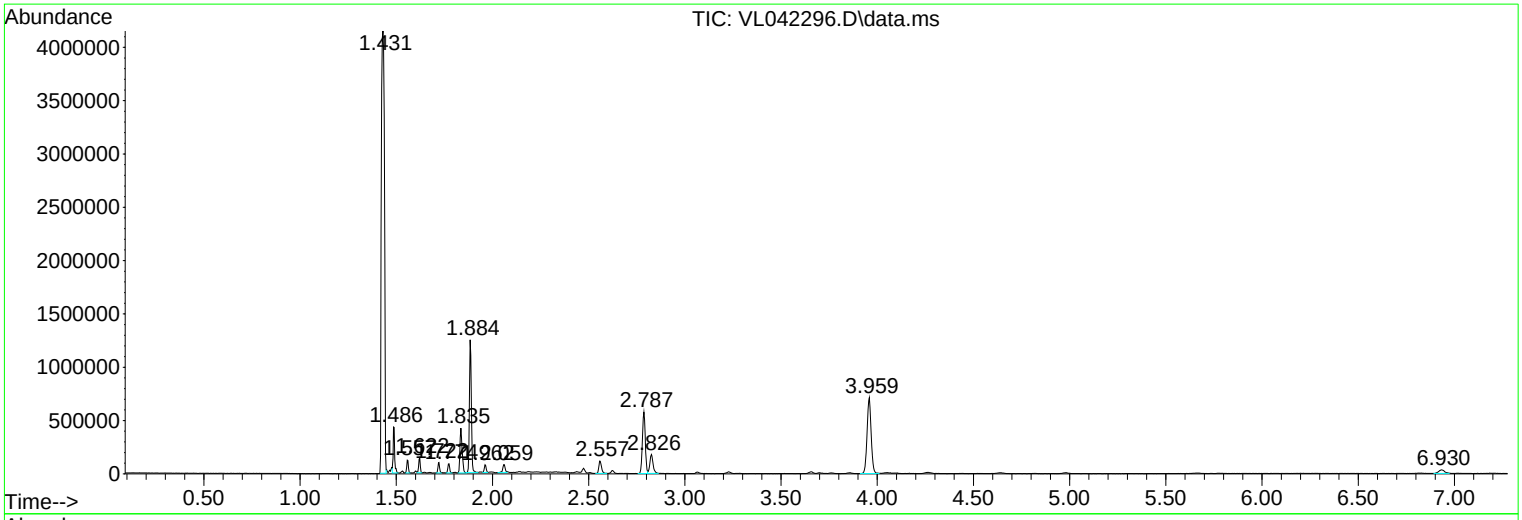
Sum of corrected areas: 11061637

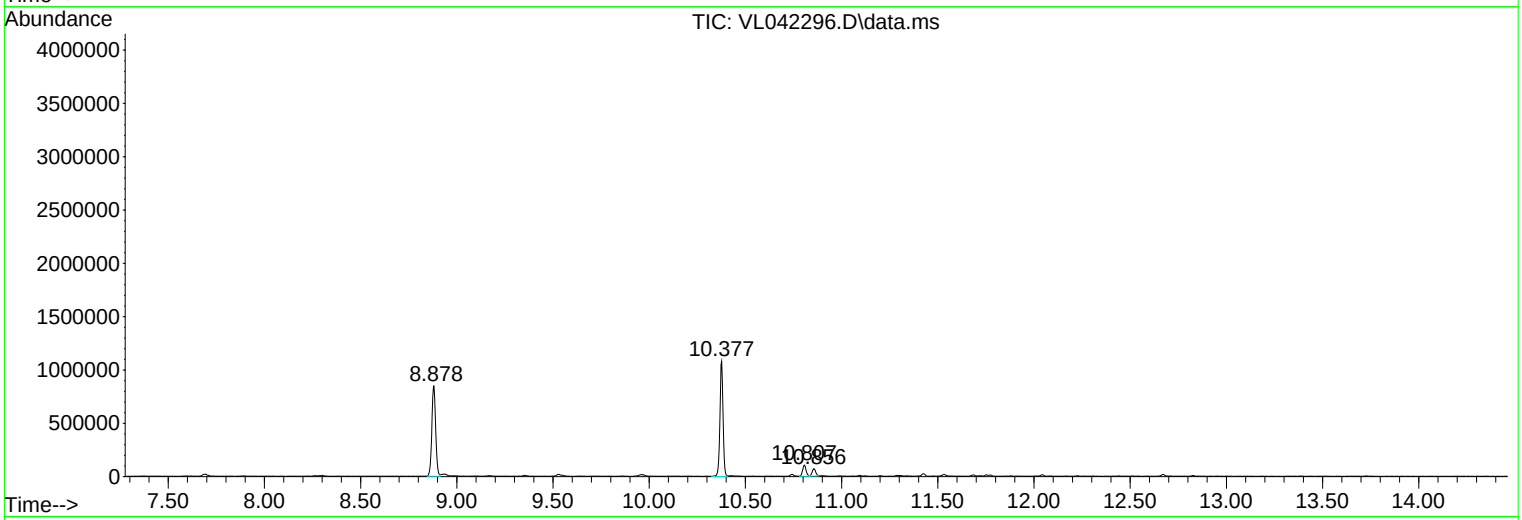
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042296.D
Acq On : 09 Apr 2025 16:57
Operator : SY/MD
Sample : Q1665-20
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

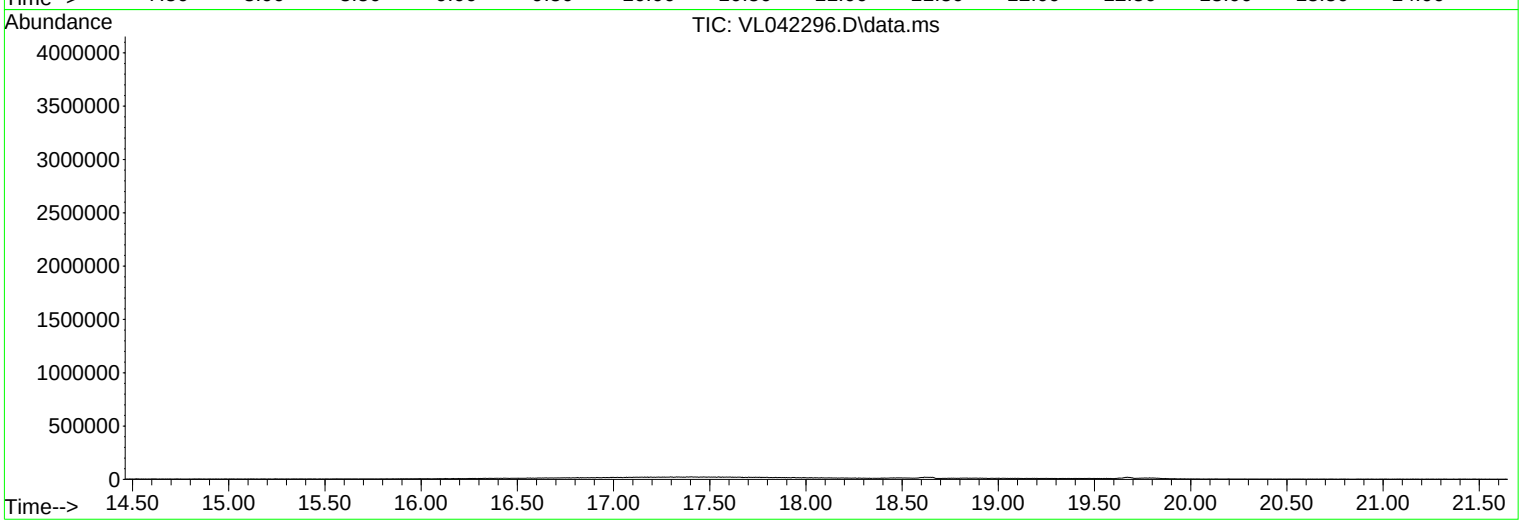
**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-3-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042296.D
Acq On : 09 Apr 2025 16:57
Operator : SY/MD
Sample : Q1665-20
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-3-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

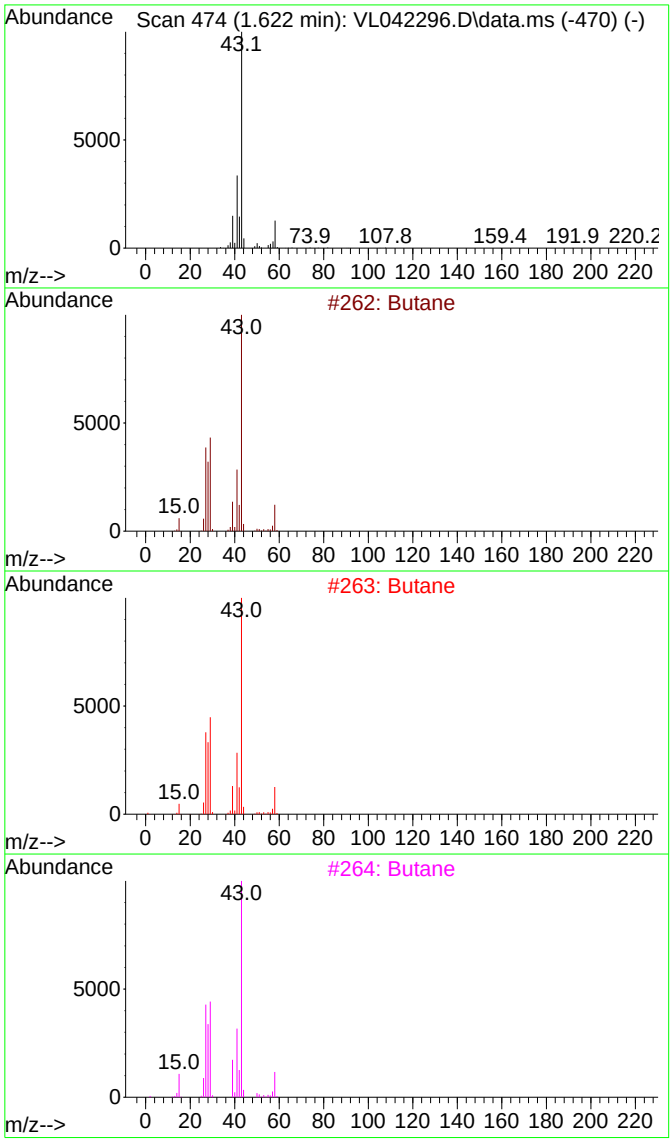
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

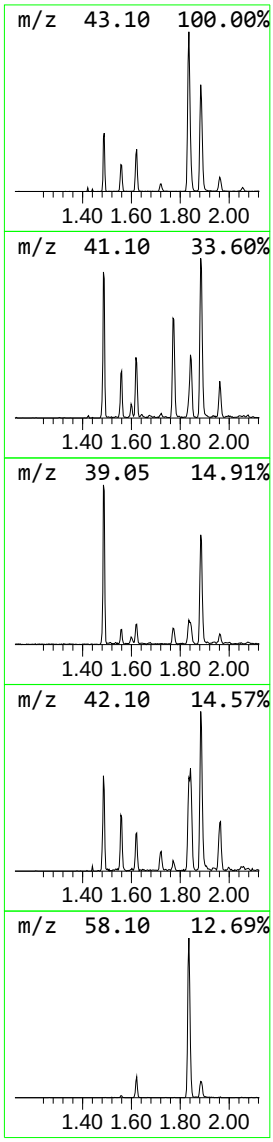
**********

Peak Number 1 Butane Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.622 | 1.31 ppbv | 77881 | Bromochloromethane | 2.787 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane | 58 | C4H10 | 000106-97-8 | 80 |
| 2 | Butane | 58 | C4H10 | 000106-97-8 | 80 |
| 3 | Butane | 58 | C4H10 | 000106-97-8 | 64 |
| 4 | Butane | 58 | C4H10 | 000106-97-8 | 64 |
| 5 | Formic acid, chloro-, (3,4,4-tri... | 194 | C7H11ClO4 | 107323-92-2 | 56 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042296.D
Acq On : 09 Apr 2025 16:57
Operator : SY/MD
Sample : Q1665-20
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-3-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

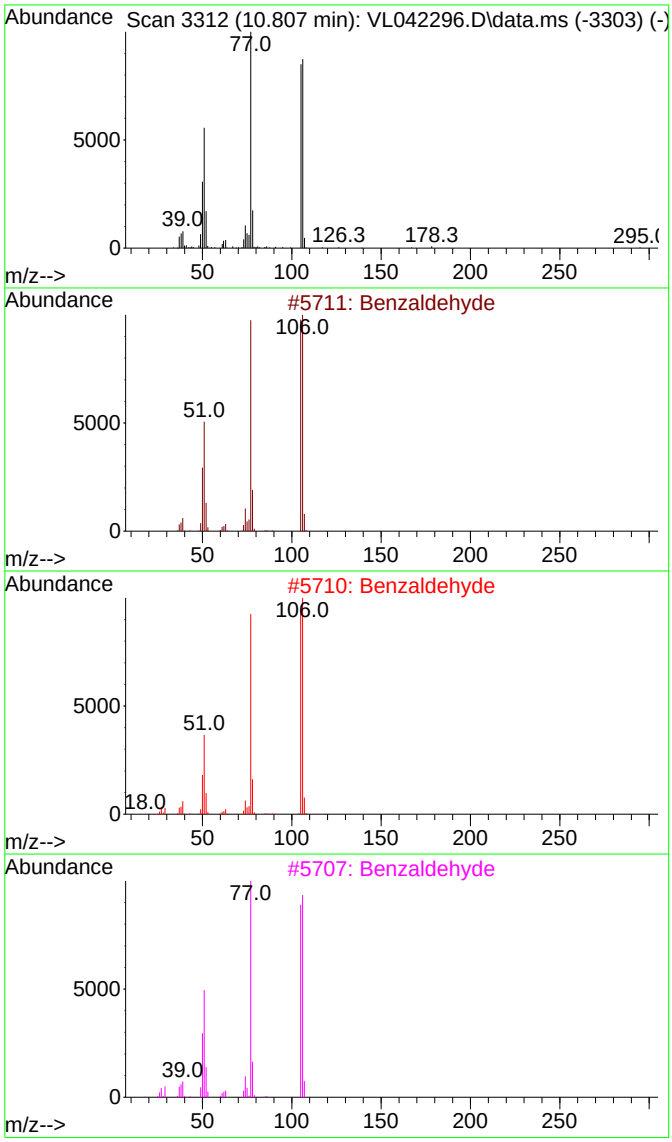
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

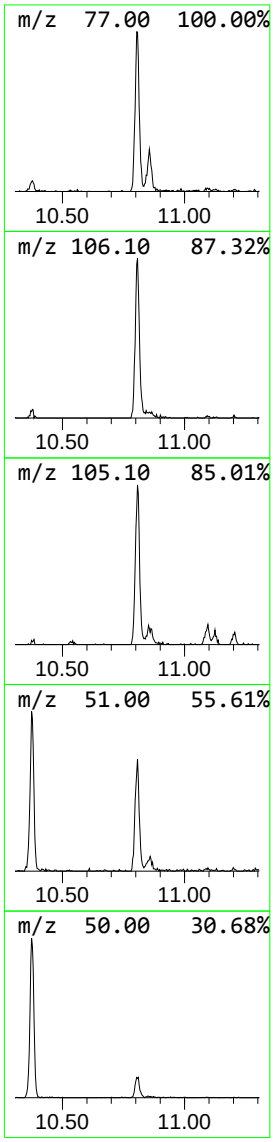
**********

Peak Number 2 Benzaldehyde Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.807 | 1.11 ppbv | 129076 | Chlorobenzene-d5 | 8.878 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzaldehyde | 106 | C7H6O | 000100-52-7 | 95 |
| 2 | Benzaldehyde | 106 | C7H6O | 000100-52-7 | 95 |
| 3 | Benzaldehyde | 106 | C7H6O | 000100-52-7 | 94 |
| 4 | Benzaldehyde | 106 | C7H6O | 000100-52-7 | 94 |
| 5 | Benzaldehyde | 106 | C7H6O | 000100-52-7 | 94 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042296.D
Acq On : 09 Apr 2025 16:57
Operator : SY/MD
Sample : Q1665-20
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-3-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Butane | 1.622 | 1.3 | ppbv | 77881 | 1 | 2.787 | 594126 | 10.0 |
| Benzaldehyde | 10.807 | 1.1 | ppbv | 129076 | 3 | 8.878 | 1165850 | 10.0 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B2-1-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-21 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042424.D | 1 | | 04/28/25 14:00 | VL042825 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.46 | 2.27 | J | 1.04 | 2.47 | ug/m3 |
| 64-17-5 | Ethanol | 690 | 1300 | EQ | 0.60 | 0.94 | ug/m3 |
| 74-87-3 | Chloromethane | 0.69 | 1.42 | | 0.21 | 1.03 | ug/m3 |
| 75-01-4 | Vinyl Chloride | 0.010 | 0.030 | U | 0.030 | 0.080 | ug/m3 |
| 74-83-9 | Bromomethane | 0.14 | 0.54 | U | 0.54 | 1.94 | ug/m3 |
| 75-00-3 | Chloroethane | 0.17 | 0.45 | U | 0.45 | 1.32 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | 0.13 | 0.38 | U | 0.38 | 1.47 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | 0.22 | 1.24 | J | 0.90 | 2.81 | ug/m3 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.16 | 1.23 | U | 1.23 | 3.83 | ug/m3 |
| 76-14-2 | Dichlorotetrafluoroethane | 0.090 | 0.63 | U | 0.63 | 3.49 | ug/m3 |
| 593-60-2 | Bromoethene | 0.12 | 0.52 | U | 0.52 | 2.19 | ug/m3 |
| 75-65-0 | tert-Butyl alcohol | 0.28 | 0.85 | J | 0.58 | 1.52 | ug/m3 |
| 142-82-5 | Heptane | 0.39 | 1.60 | J | 0.45 | 2.05 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | 40.0 | 98.3 | E | 0.17 | 1.23 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethene | 0.14 | 0.56 | U | 0.56 | 1.98 | ug/m3 |
| 67-64-1 | Acetone | 15.2 | 36.1 | E | 0.57 | 1.19 | ug/m3 |
| 75-15-0 | Carbon Disulfide | 0.16 | 0.50 | U | 0.50 | 1.56 | ug/m3 |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.12 | 0.43 | U | 0.43 | 1.80 | ug/m3 |
| 75-09-2 | Methylene Chloride | 1.60 | 5.56 | | 0.66 | 1.74 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.19 | 0.75 | U | 0.75 | 1.98 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | 0.13 | 0.53 | U | 0.53 | 2.02 | ug/m3 |
| 110-82-7 | Cyclohexane | 0.30 | 1.03 | J | 0.76 | 1.72 | ug/m3 |
| 78-93-3 | 2-Butanone | 0.71 | 2.09 | | 0.35 | 1.47 | ug/m3 |
| 56-23-5 | Carbon Tetrachloride | 0.070 | 0.44 | | 0.060 | 0.19 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.090 | 0.36 | U | 0.36 | 1.98 | ug/m3 |
| 67-66-3 | Chloroform | 0.080 | 0.39 | U | 0.39 | 2.44 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.010 | 0.050 | U | 0.050 | 0.16 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | 0.49 | 2.29 | J | 0.47 | 2.34 | ug/m3 |
| 71-43-2 | Benzene | 0.43 | 1.37 | J | 0.29 | 1.60 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | 0.090 | 0.36 | U | 0.36 | 2.02 | ug/m3 |
| 79-01-6 | Trichloroethene | 0.020 | 0.11 | U | 0.11 | 0.16 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | 0.11 | 0.51 | U | 0.51 | 2.31 | ug/m3 |
| 75-27-4 | Bromodichloromethane | 0.080 | 0.54 | U | 0.54 | 3.35 | ug/m3 |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.090 | 0.37 | U | 0.37 | 2.05 | ug/m3 |
| 108-88-3 | Toluene | 8.50 | 32.0 | | 0.41 | 1.88 | ug/m3 |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B2-1-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-21 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042424.D | 1 | | 04/28/25 14:00 | VL042825 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.060 | 0.27 | U | 0.27 | 2.27 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.060 | 0.27 | U | 0.27 | 2.27 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.070 | 0.38 | U | 0.38 | 2.73 | ug/m3 |
| 124-48-1 | Dibromochloromethane | 0.070 | 0.60 | U | 0.60 | 4.26 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane | 0.070 | 0.54 | U | 0.54 | 0.77 | ug/m3 |
| 127-18-4 | Tetrachloroethene | 0.020 | 0.14 | U | 0.14 | 0.20 | ug/m3 |
| 108-90-7 | Chlorobenzene | 0.080 | 0.37 | U | 0.37 | 2.30 | ug/m3 |
| 100-41-4 | Ethyl Benzene | 0.38 | 1.65 | J | 0.52 | 2.17 | ug/m3 |
| 179601-23-1 | m/p-Xylene | 1.20 | 5.21 | | 0.91 | 4.34 | ug/m3 |
| 95-47-6 | o-Xylene | 0.52 | 2.26 | | 0.52 | 2.17 | ug/m3 |
| 100-42-5 | Styrene | 0.24 | 1.02 | J | 0.47 | 2.13 | ug/m3 |
| 75-25-2 | Bromoform | 0.060 | 0.62 | U | 0.62 | 5.17 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.010 | 0.070 | U | 0.070 | 0.21 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | 0.11 | 0.57 | J | 0.57 | 2.59 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.13 | 0.64 | J | 0.54 | 2.46 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.27 | 1.33 | J | 0.39 | 2.46 | ug/m3 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.080 | 0.48 | U | 0.48 | 3.01 | ug/m3 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.050 | 0.30 | U | 0.30 | 3.01 | ug/m3 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.080 | 0.48 | U | 0.48 | 3.01 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.090 | 0.67 | U | 0.67 | 3.71 | ug/m3 |
| 87-68-3 | Hexachloro-1,3-Butadiene | 0.090 | 0.96 | U | 0.96 | 5.33 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | 0.13 | 0.29 | U | 0.29 | 1.11 | ug/m3 |
| 91-20-3 | Naphthalene | 0.080 | 0.42 | U | 0.42 | 0.52 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | 0.12 | 0.59 | J | 0.59 | 2.46 | ug/m3 |
| 110-54-3 | Hexane | 3.00 | 10.6 | | 0.39 | 1.76 | ug/m3 |
| 107-05-1 | Allyl Chloride | 0.15 | 0.47 | U | 0.47 | 1.57 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | 0.21 | 0.76 | U | 0.76 | 1.80 | ug/m3 |
| 80-62-6 | Methyl Methacrylate | 0.090 | 0.37 | U | 0.37 | 2.05 | ug/m3 |
| **SURROGATES** | | | | | | | |
| 460-00-4 | 1-Bromo-4-Fluorobenzene | 10.5 | | | 70 (65) - 130 (135) | 105% | SPK: 10 |
| **INTERNAL STANDARDS** | | | | | | | |
| 74-97-5 | Bromochloromethane | 135000 | | 2.784 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 378000 | | 3.955 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 330000 | | 8.878 | | | |
| **TENTITIVE IDENTIFIED COMPOUNDS** | | | | | | | |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B2-1-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-21 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042424.D | 1 | | 04/28/25 14:00 | VL042825 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 75-45-6 | Chlorodifluoromethane | 0.31 | | J | | 1.48 | ppbv |
| 115-07-1 | Propene | 1.20 | | J | | 1.49 | ppbv |
| 000106-97-8 | Butane | 1.30 | | J | | 1.62 | ppbv |
| 000109-66-0 | Pentane | 1.00 | | J | | 1.96 | ppbv |
| 056728-13-3 | Isoxazolidine, 4-ethyl-2,5-dimethy | 1.10 | | J | | 2.28 | ppbv |
| 013162-05-5 | N-Vinylformamide | 1.20 | | J | | 2.47 | ppbv |
| 000763-29-1 | 1-Pentene, 2-methyl- | 1.10 | | J | | 3.23 | ppbv |
| 000590-86-3 | Butanal, 3-methyl- | 1.20 | | J | | 4.25 | ppbv |
| 000066-25-1 | Hexanal | 1.90 | | J | | 7.69 | ppbv |

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042424.D
Acq On : 28 Apr 2025 14:00
Operator : SY/MD
Sample : Q1665-21
Misc : 400mL/MSVOA_L
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 29 01:37:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) Bromochloromethane | 2.784 | 49 | 134924 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.955 | 114 | 377834 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.878 | 117 | 330143 | 10.000 | ppbv | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.374 | 95 | 284407 | 10.483 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 104.800% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.499 | 85 | 10943 | 0.459 | ppbv | | 93 |
| 3) Chlorodifluoromethane | 1.476 | 51 | 6923m | 0.305 | ppbv | | |
| 4) Chloromethane | 1.531 | 50 | 6517 | 0.691 | ppbv | | 93 |
| 9) Propene | 1.486 | 41 | 11972m | 1.158 | ppbv | | |
| 10) Heptane | 4.978 | 43 | 11454m | 0.394 | ppbv | | |
| 11) Trichlorofluoromethane | 1.877 | 101 | 4919 | 0.217 | ppbv | | 92 |
| 13) Ethanol | 1.722 | 45 | 1134596 | 690.509 | ppbv | | 81 |
| 15) Acetone | 1.835 | 43 | 335719 | 15.200 | ppbv | | 100 |
| 17) tert-Butyl alcohol | 2.043 | 59 | 7751 | 0.283 | ppbv | | 97 |
| 19) Isopropyl Alcohol | 1.884 | 45 | 490461 | 39.973 | ppbv | # | 63 |
| 20) Methylene Chloride | 2.059 | 84 | 13523 | 1.563 | ppbv | | 95 |
| 26) Hexane | 2.826 | 57 | 65044 | 2.951 | ppbv | # | 42 |
| 30) Cyclohexane | 3.855 | 84 | 5289 | 0.297 | ppbv | | 92 |
| 34) 2-Butanone | 2.560 | 43 | 21181 | 0.709 | ppbv | | 100 |
| 35) Carbon Tetrachloride | 3.761 | 117 | 2391m | 0.070 | ppbv | | |
| 36) Benzene | 3.654 | 78 | 17661 | 0.433 | ppbv | # | 94 |
| 44) 2,2,4-Trimethylpentane | 4.642 | 57 | 34215m | 0.486 | ppbv | | |
| 53) Toluene | 6.930 | 91 | 417734 | 8.542 | ppbv | | 100 |
| 58) Ethyl Benzene | 9.351 | 91 | 24772 | 0.379 | ppbv | | 95 |
| 59) m/p-Xylene | 9.529 | 91 | 65650 | 1.246 | ppbv | | 93 |
| 60) o-Xylene | 9.963 | 91 | 27701 | 0.522 | ppbv | | 97 |
| 61) Styrene | 9.865 | 104 | 6130 | 0.242 | ppbv | | 91 |
| 71) 2-Chlorotoluene | 10.901 | 91 | 6948 | 0.114 | ppbv | | 82 |
| 72) 4-Ethyltoluene | 11.125 | 105 | 7865 | 0.121 | ppbv | # | 56 |
| 73) 1,3,5-Trimethylbenzene | 11.205 | 105 | 7185 | 0.125 | ppbv | | 95 |
| 74) 1,2,4-Trimethylbenzene | 11.536 | 105 | 17740 | 0.265 | ppbv | # | 68 |

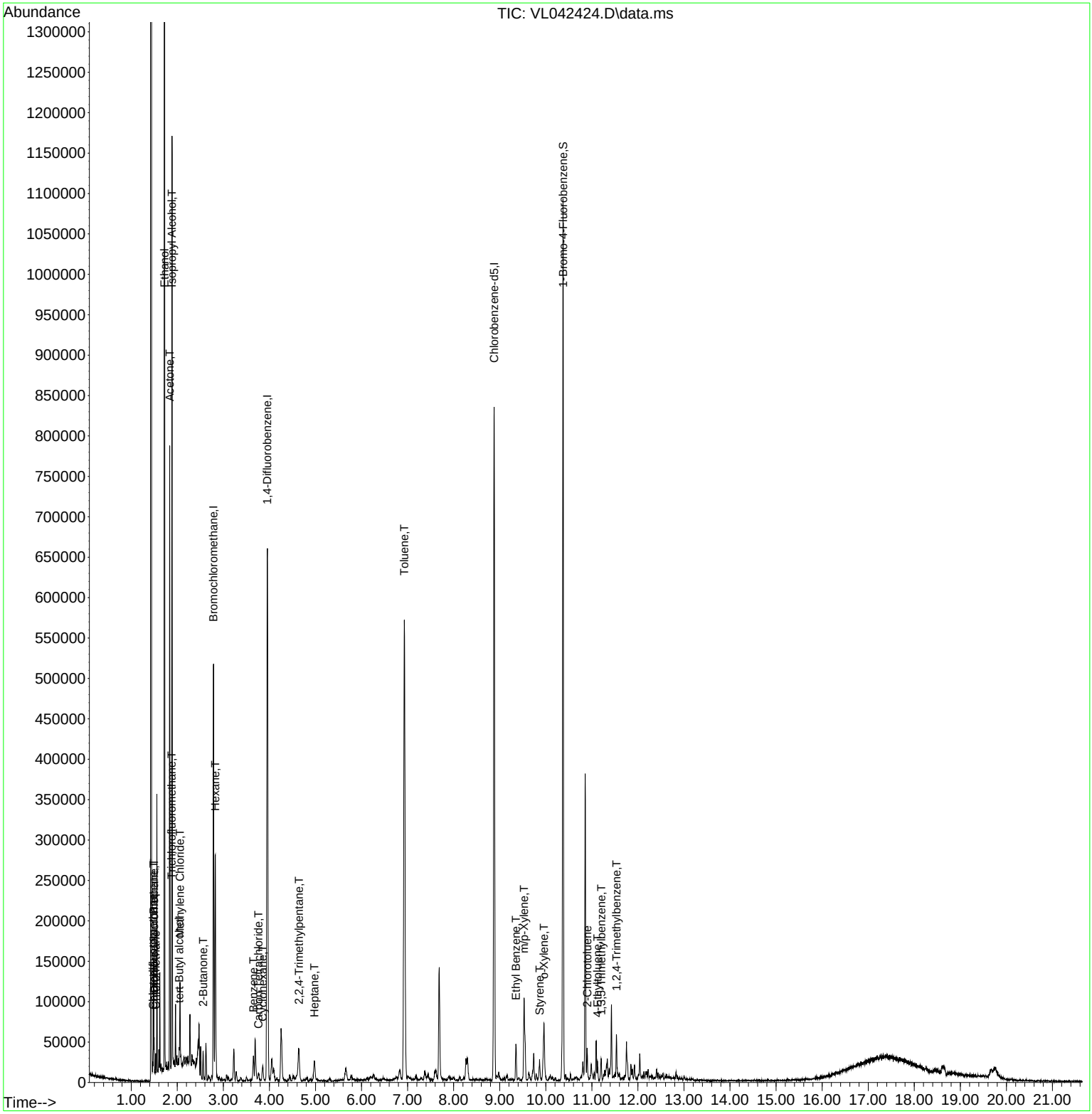
(#) = qualifier out of range (m) = manual integration (+) = signals summed

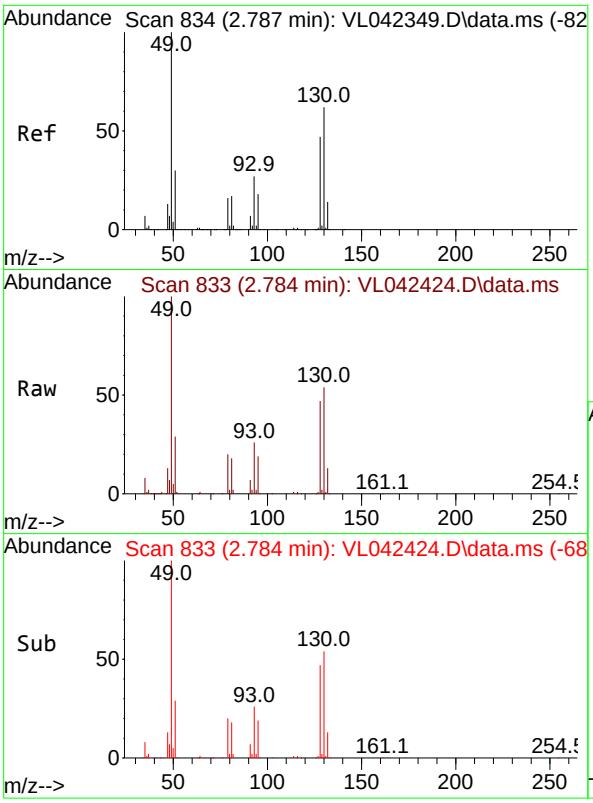
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042424.D
Acq On : 28 Apr 2025 14:00
Operator : SY/MD
Sample : Q1665-21
Misc : 400mL/MSVOA_L
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 29 01:37:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

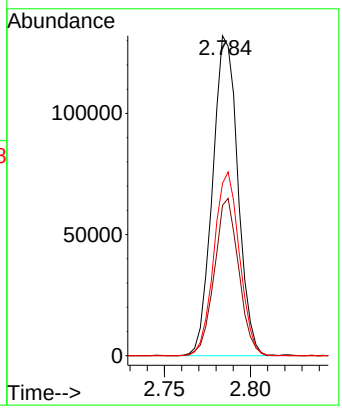





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

Tgt Ion: 49 Resp: 13492

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 47.5 | 22.8 | 68.4 |
| 130 | 57.9 | 29.3 | 88.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025

**Manual Integrations**
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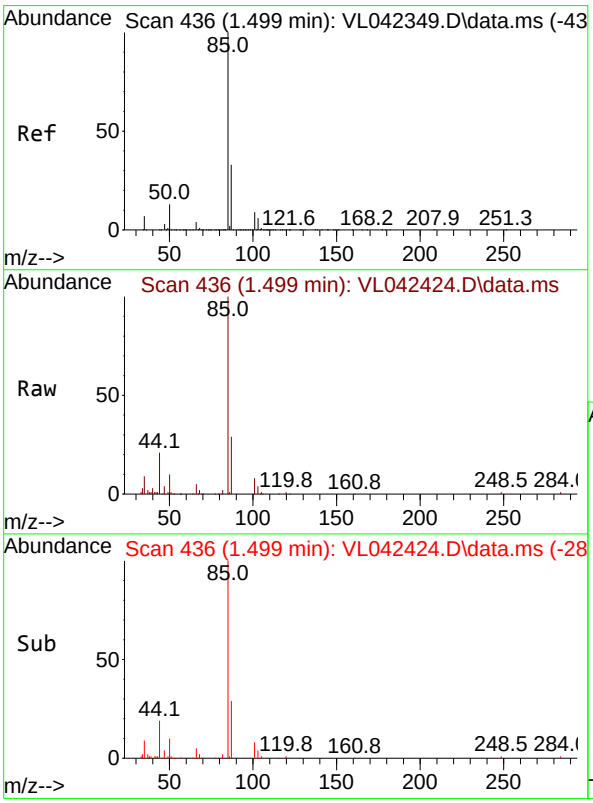
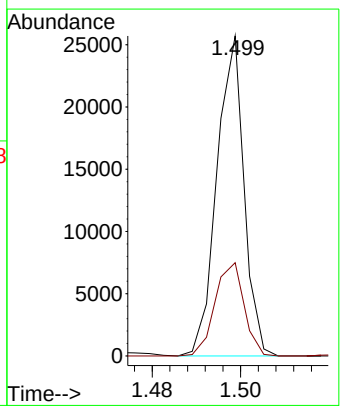
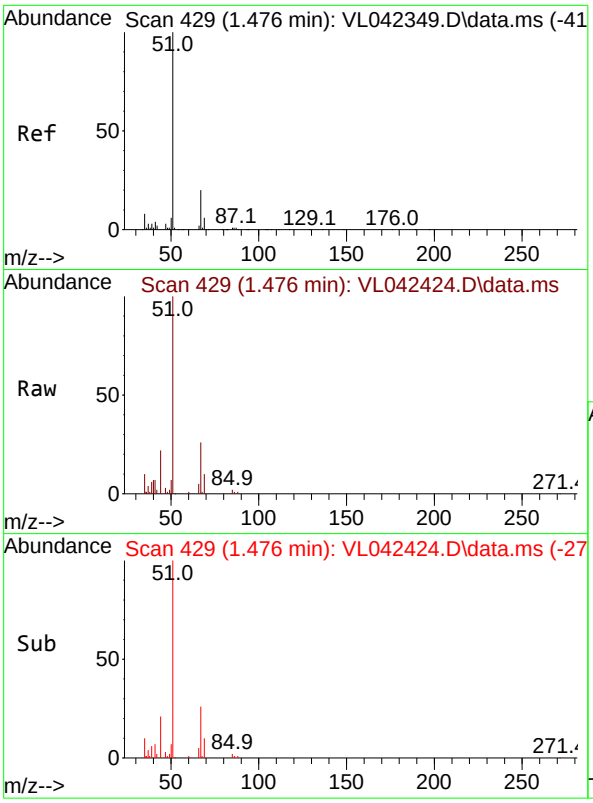



#2
Dichlorodifluoromethane
Concen: 0.459 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

Tgt Ion: 85 Resp: 10943

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 29.1 | 26.6 | 39.8 |

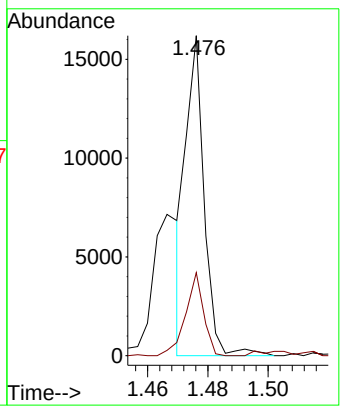





#3
Chlorodifluoromethane
Concen: 0.305 ppbv m
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

Tgt Ion: 51 Resp: 692

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 29.0 | 16.2 | 24.4 |

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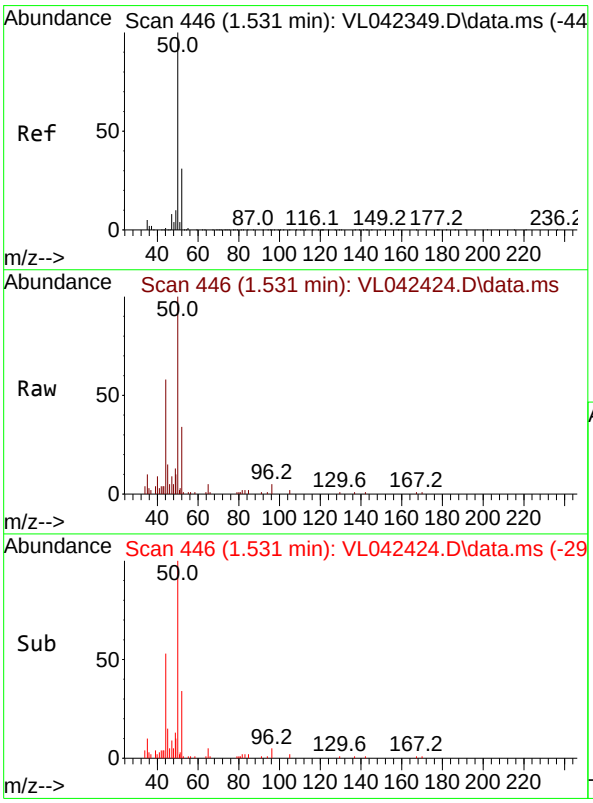
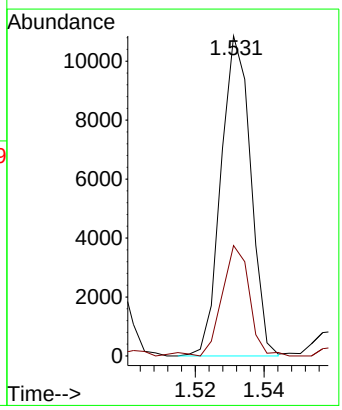
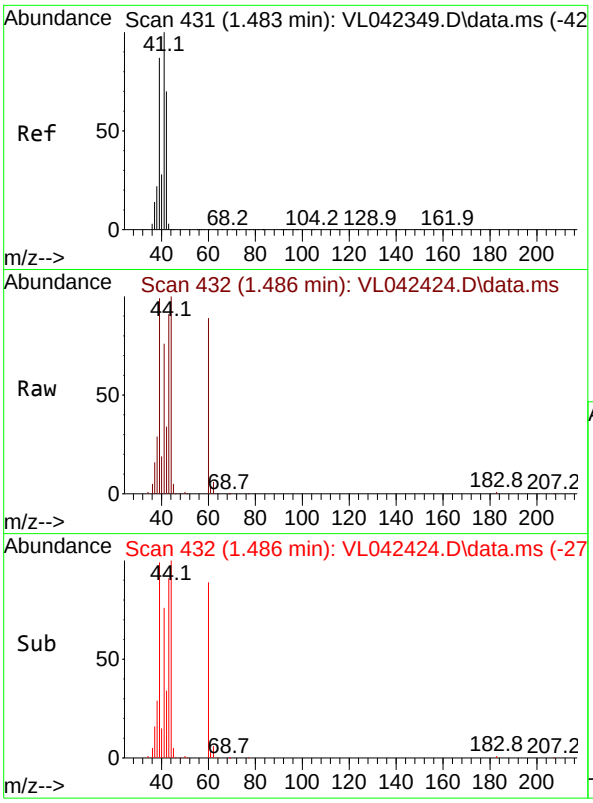



#4
Chloromethane
Concen: 0.691 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

Tgt Ion: 50 Resp: 6517

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 34.6 | 24.7 | 37.1 |






#9
Propene
Concen: 1.158 ppbv m
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

Tgt Ion: 41 Resp: 1197

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 217.8 | 56.2 | 84.4# |

**Instrument :**
MSVOA_L
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IA-B2-1-3242025

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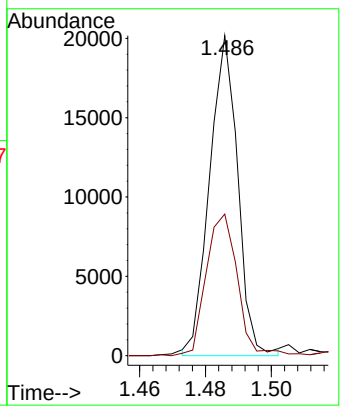
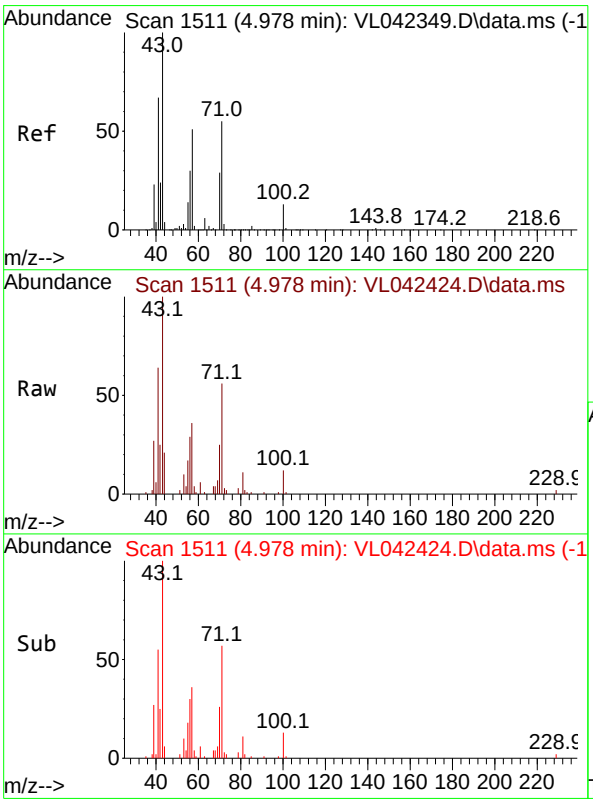
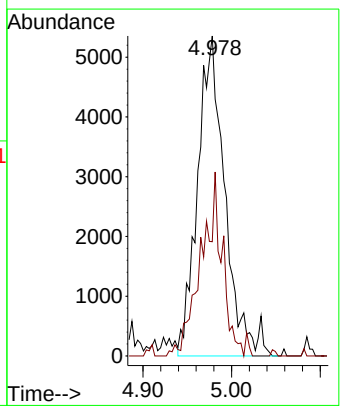


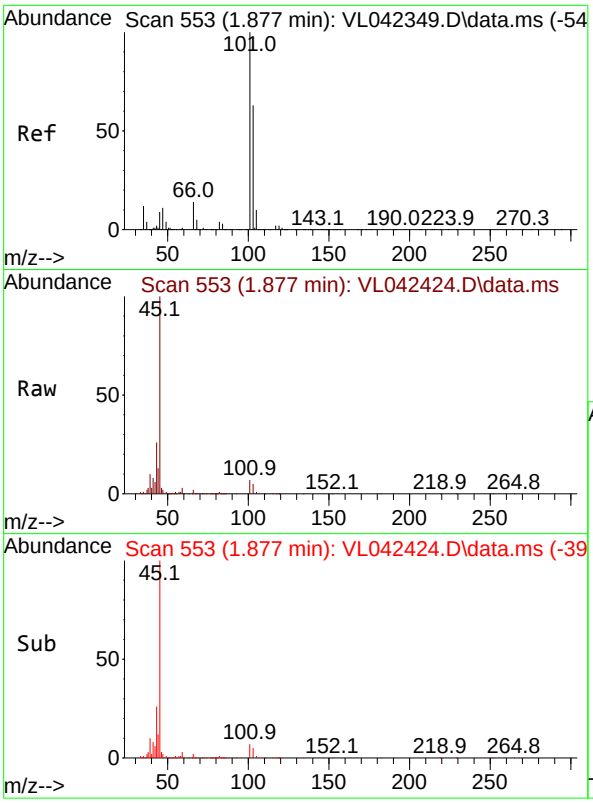




#10
Heptane
Concen: 0.394 ppbv m
RT: 4.978 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

Tgt Ion: 43 Resp: 11454

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 0.0 | 39.9 | 59.9# |

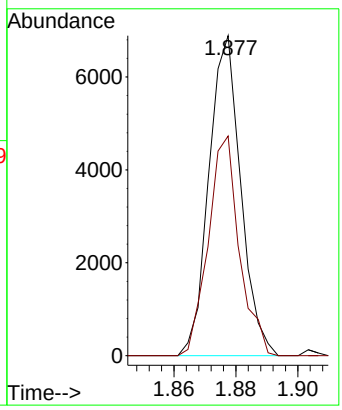





#11
Trichlorofluoromethane
Concen: 0.217 ppbv
RT: 1.877 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

Tgt Ion:101 Resp: 491

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 68.7 | 50.1 | 75.1 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025

**Manual Integrations**
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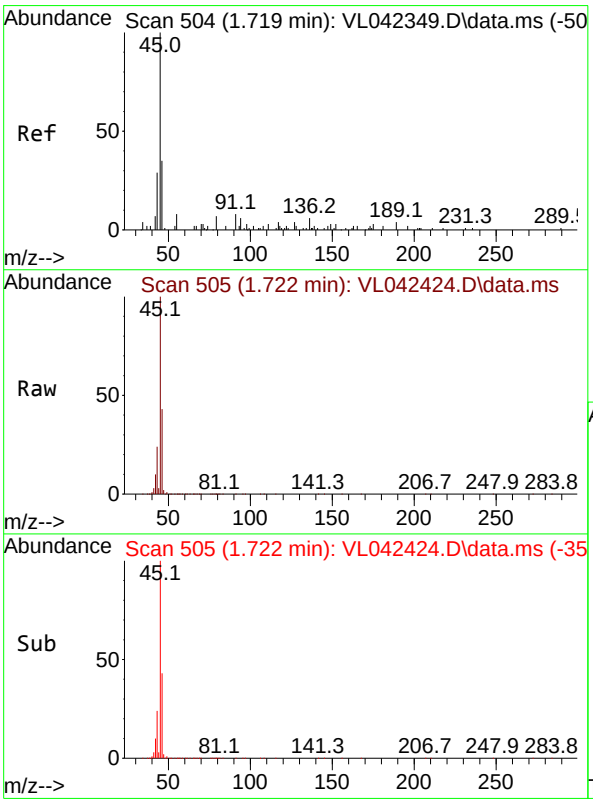
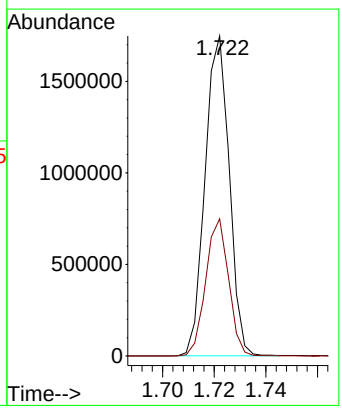
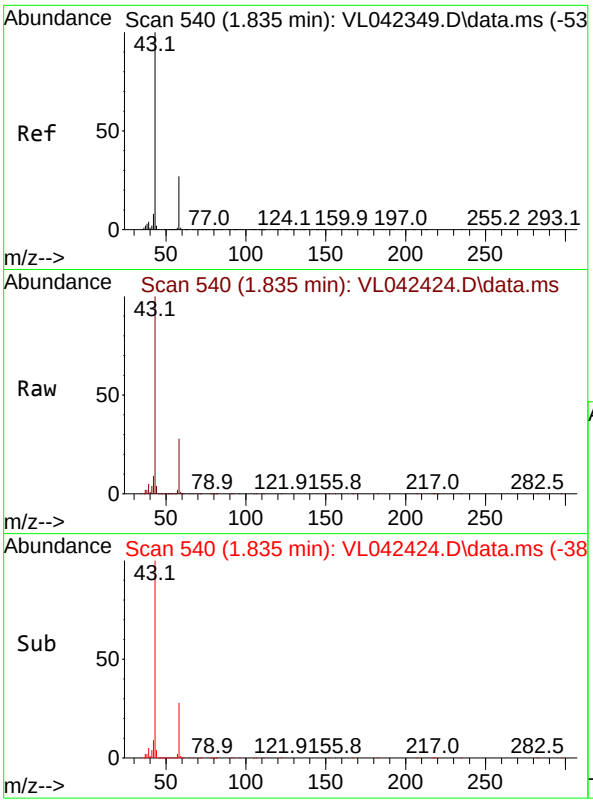



#13
Ethanol
Concen: 690.509 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

Tgt Ion: 45 Resp: 1134596

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 40.7 | 21.9 | 87.7 |

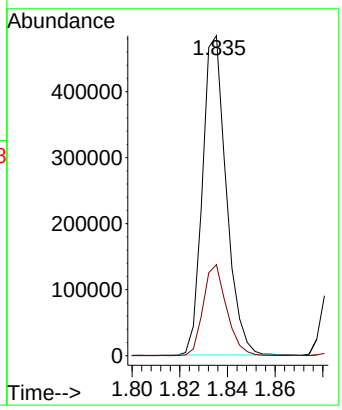





#15
Acetone
Concen: 15.200 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

Tgt Ion: 43 Resp: 335719

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 28.2 | 22.4 | 33.6 |




**Instrument :**
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**ClientSampleId :**
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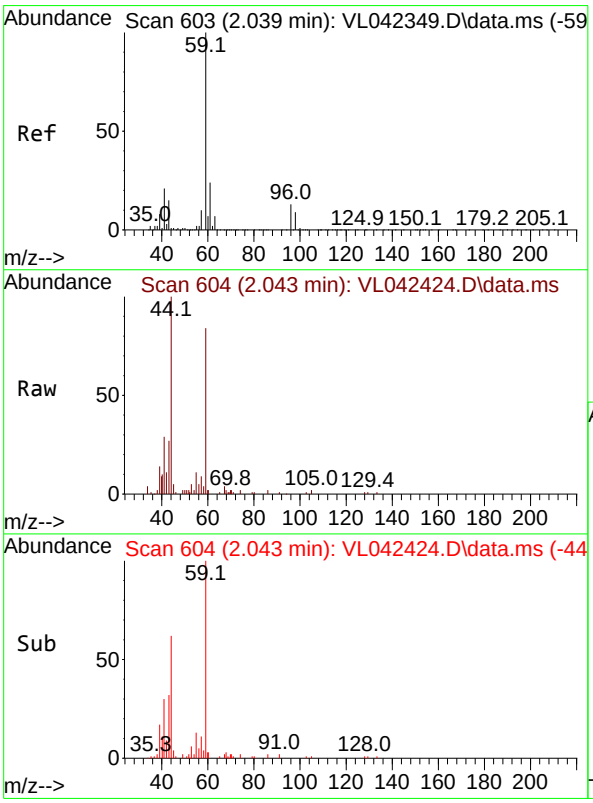
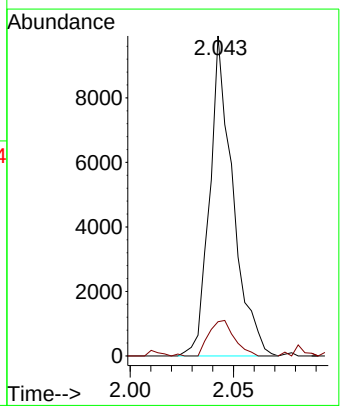
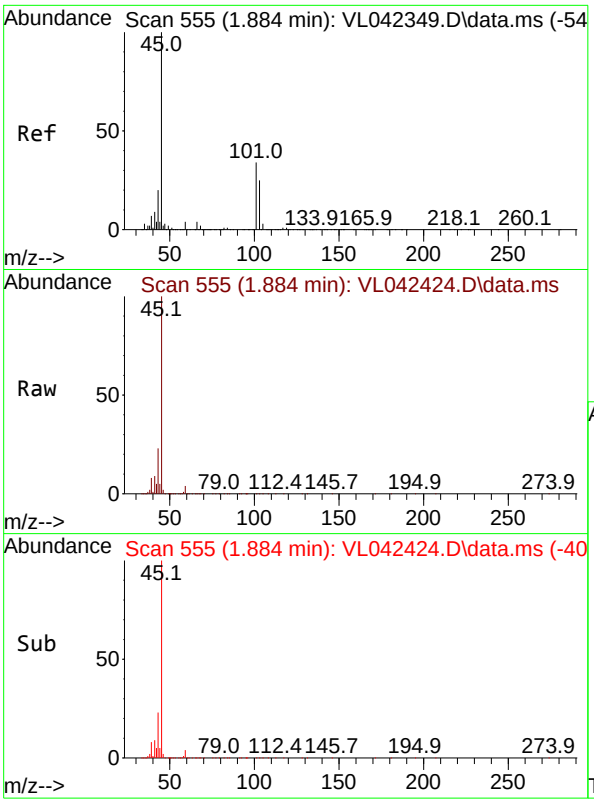



#17
tert-Butyl alcohol
Concen: 0.283 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.003 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

Tgt Ion: 59 Resp: 7751

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 12.1 | 8.7 | 13.1 |






#19
Isopropyl Alcohol
Concen: 39.973 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

Tgt Ion: 45 Resp: 49046

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 19.3 | 34.5 | 51.7# |

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025

**Manual Integrations**
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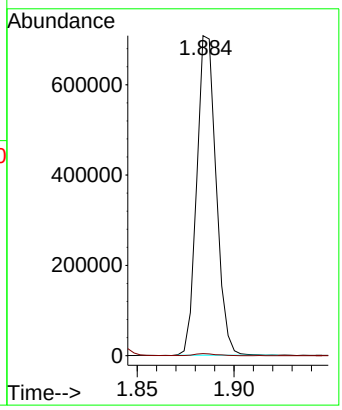
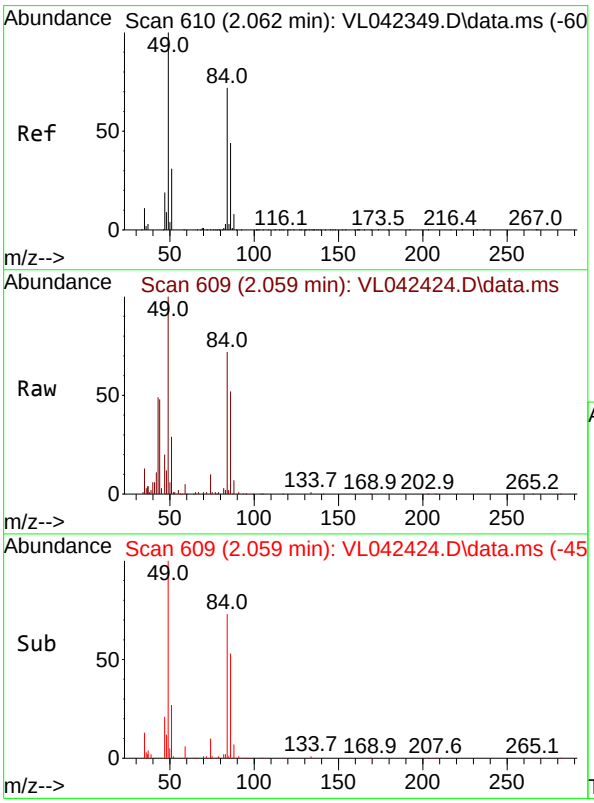
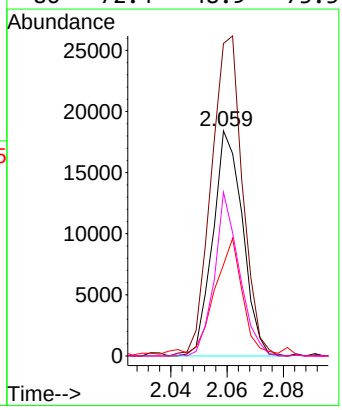


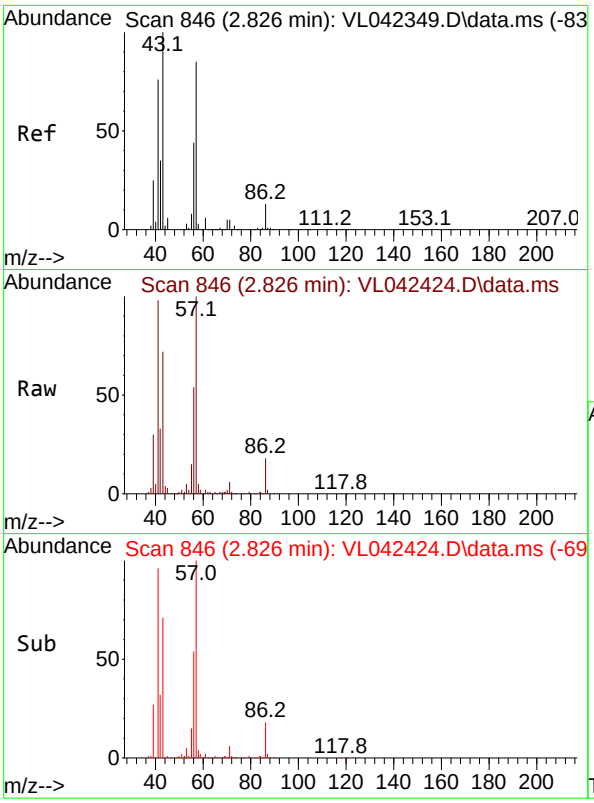




#20
Methylene Chloride
Concen: 1.563 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

Tgt Ion: 84 Resp: 13523

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 138.8 | 111.6 | 167.4 |
| 51 | 39.3 | 35.1 | 52.7 |
| 86 | 72.4 | 48.9 | 73.3 |

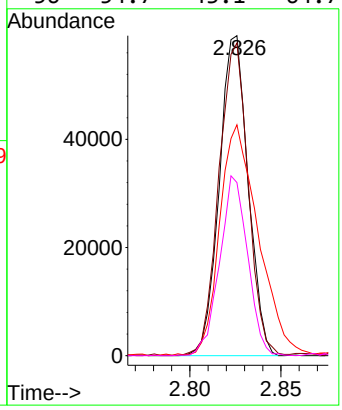





#26
Hexane
Concen: 2.951 ppbv
RT: 2.826 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

Tgt Ion: 57 Resp: 6504

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 100.1 | 77.9 | 116.9 |
| 43 | 98.3 | 208.4 | 312.6 |
| 56 | 54.7 | 43.1 | 64.7 |

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MSVOA_L
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IA-B2-1-3242025

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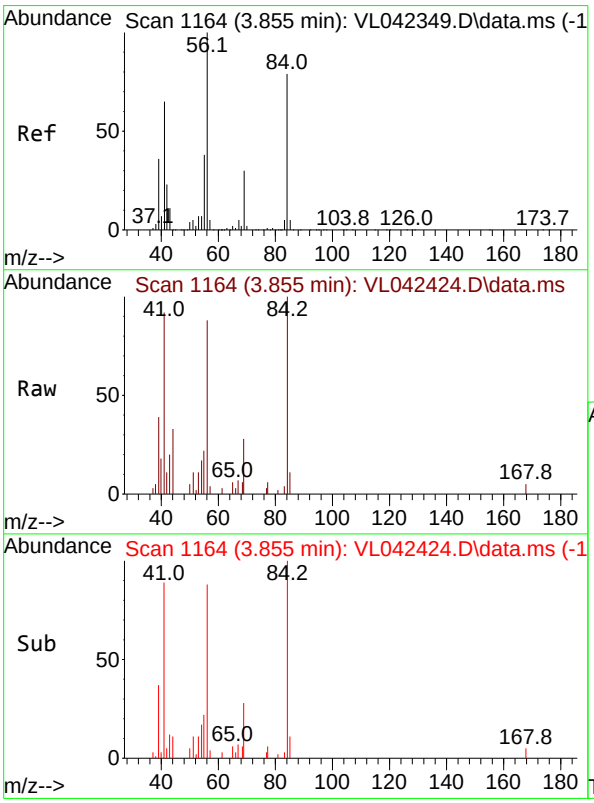
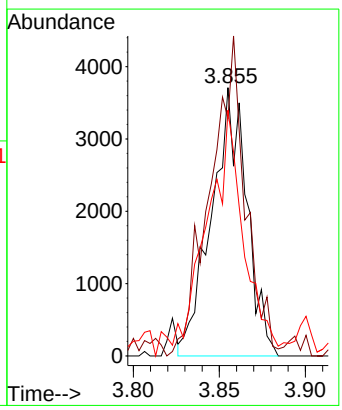
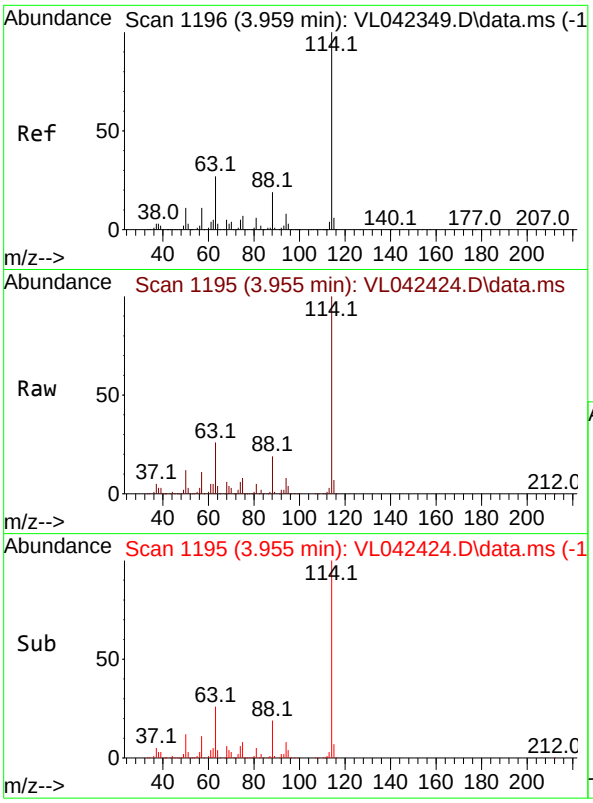



#30
Cyclohexane
Concen: 0.297 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. -0.000 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

Tgt Ion: 84 Resp: 5289

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 130.1 | 101.0 | 151.4 |
| 41 | 98.5 | 67.4 | 101.0 |

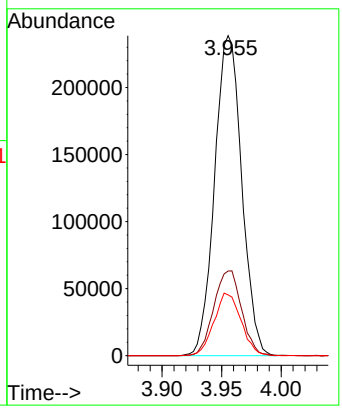





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

Tgt Ion:114 Resp: 37783

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 27.2 | 21.8 | 32.6 |
| 88 | 19.5 | 15.5 | 23.3 |




**Instrument :**
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**ClientSampleId :**
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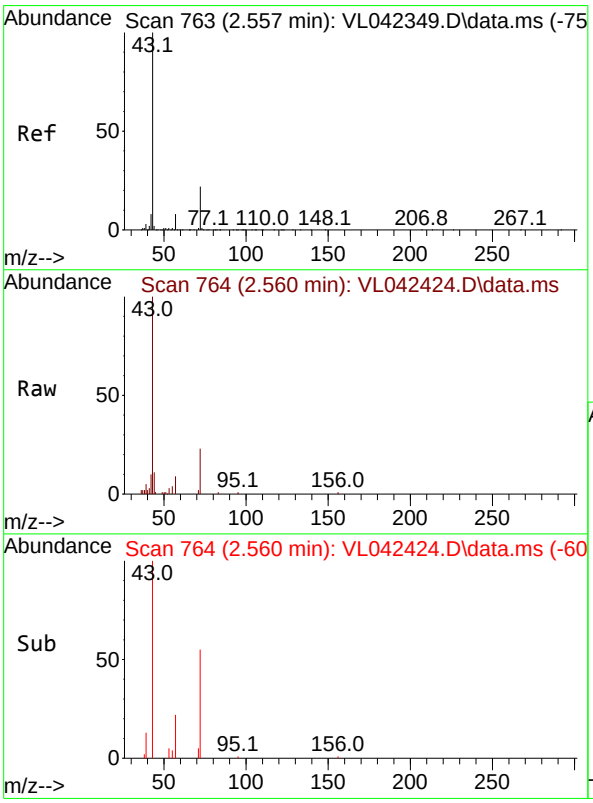
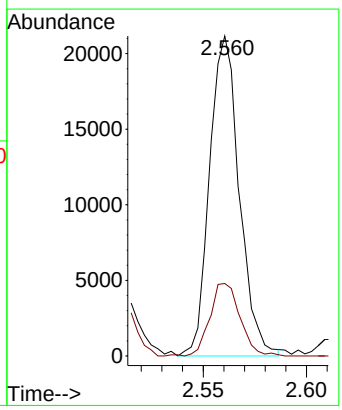
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

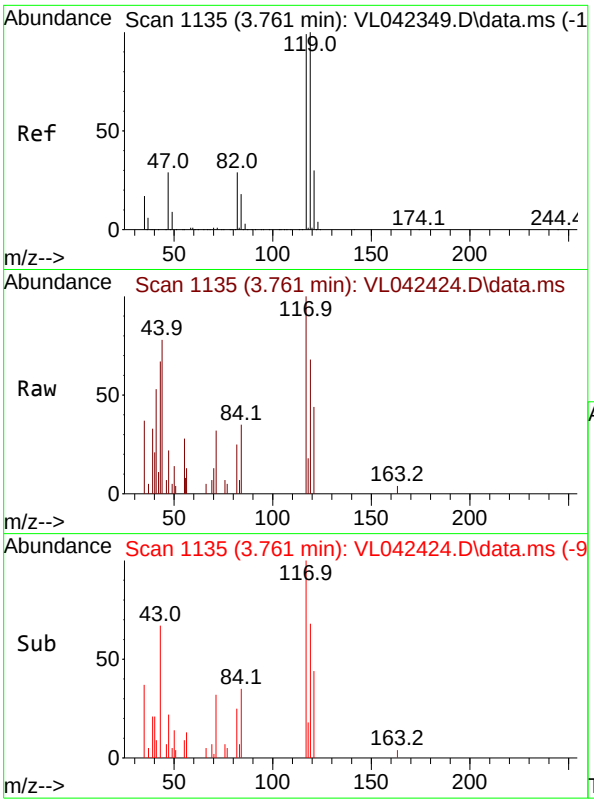



#34
2-Butanone
Concen: 0.709 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

Tgt Ion: 43 Resp: 21181

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 22.9 | 18.2 | 27.2 |






#35
Carbon Tetrachloride
Concen: 0.070 ppbv m
RT: 3.761 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

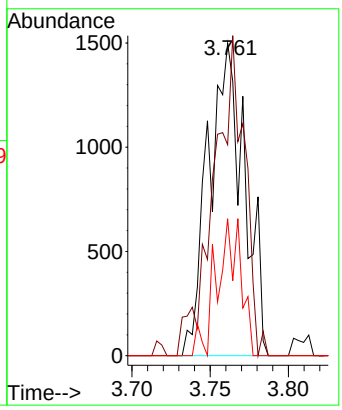
Tgt Ion:117 Resp: 239

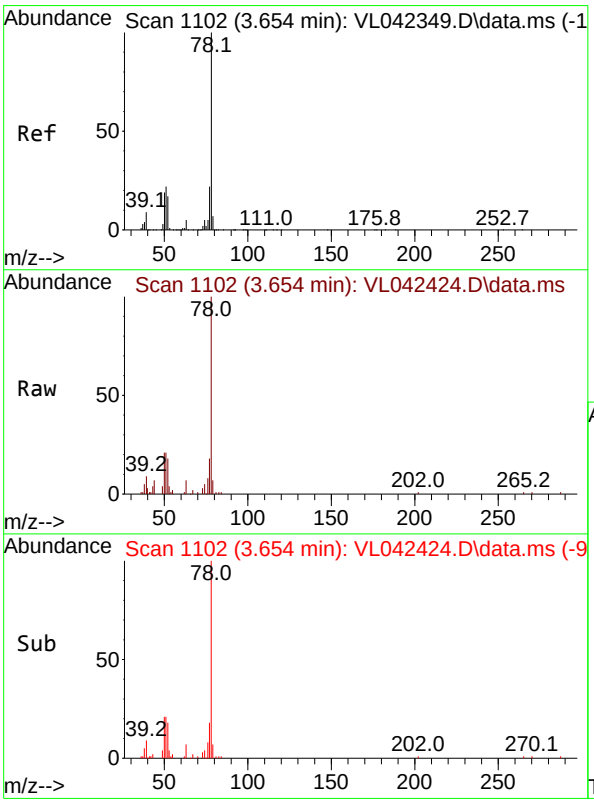
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 67.5 | 80.5 | 120.7# |
| 121 | 43.8 | 24.2 | 36.2# |

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

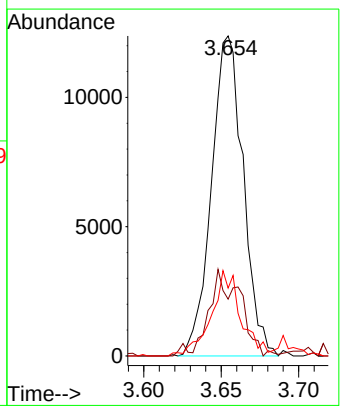


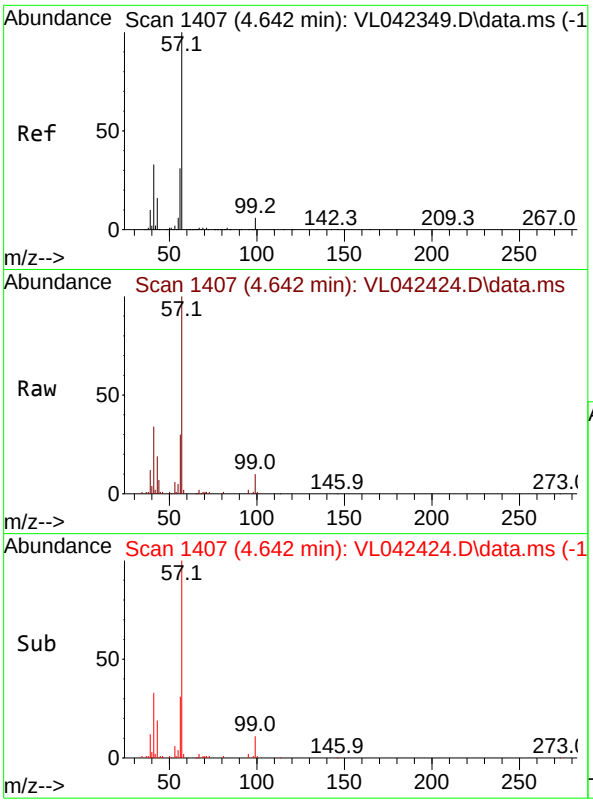




#36
Benzene
Concen: 0.433 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

Tgt Ion: 78 Resp: 17661

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 17.3 | 17.4 | 26.0# |
| 50 | 20.2 | 15.5 | 23.3 |

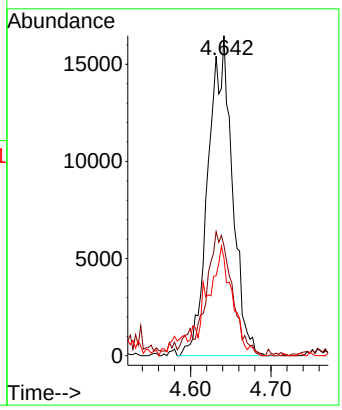





#44
2,2,4-Trimethylpentane
Concen: 0.486 ppbv m
RT: 4.642 min Scan# 14
Delta R.T. 0.000 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

Tgt Ion: 57 Resp: 3421

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 45.1 | 27.2 | 40.8# |
| 56 | 0.0 | 25.7 | 38.5# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/29/2025
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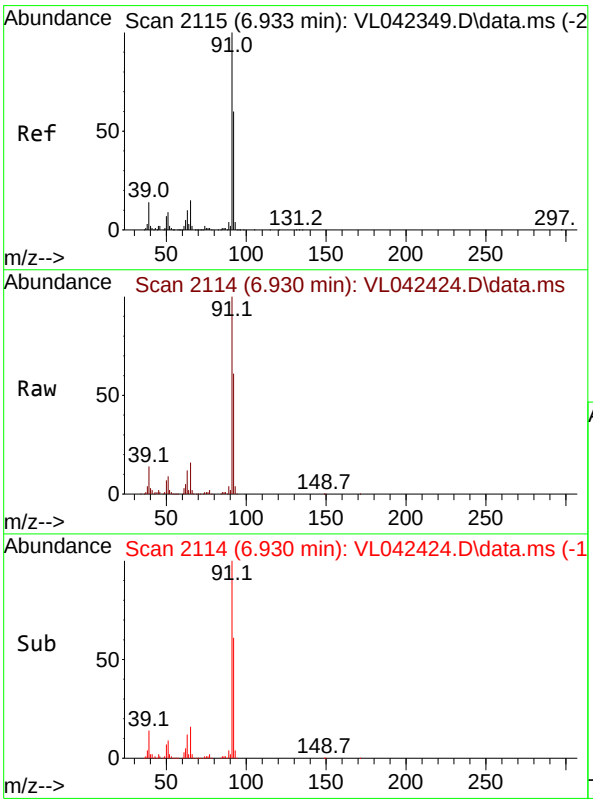
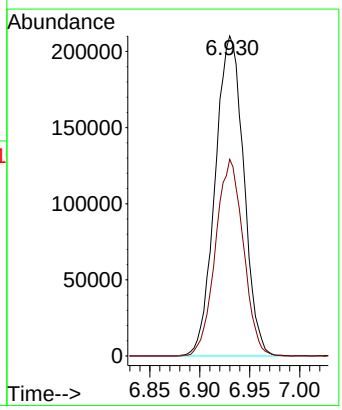
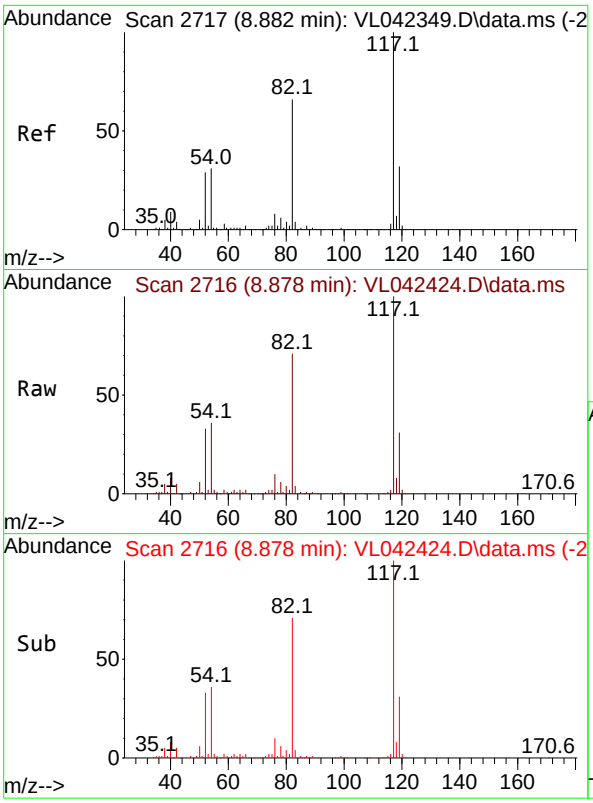



#53
Toluene
Concen: 8.542 ppbv
RT: 6.930 min Scan# 2114
Delta R.T. -0.003 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

Tgt Ion: 91 Resp: 417734

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 60.0 | 48.2 | 72.4 |

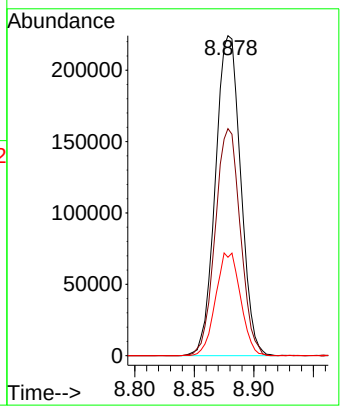





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

Tgt Ion:117 Resp: 33014

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 70.7 | 57.8 | 86.6 |
| 119 | 31.8 | 25.2 | 37.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/29/2025
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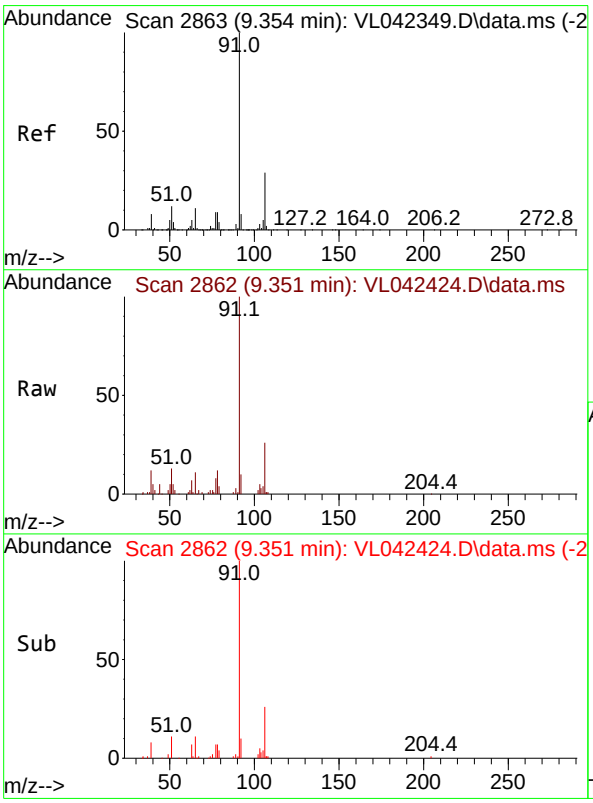
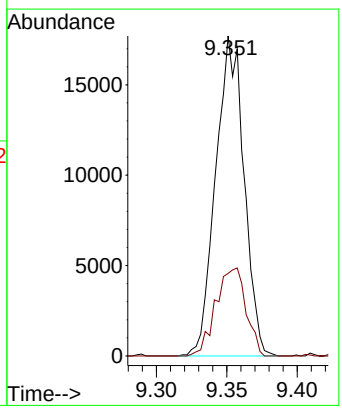
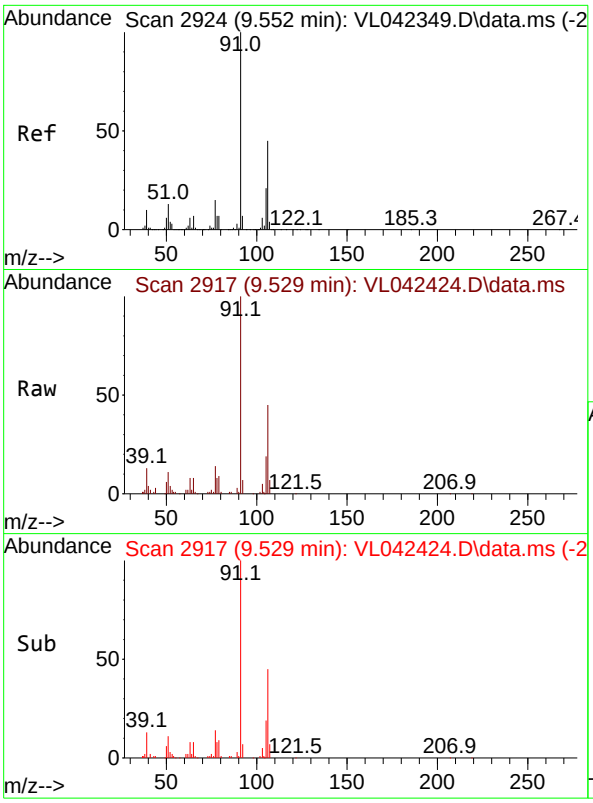



#58
Ethyl Benzene
Concen: 0.379 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.003 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

Tgt Ion: 91 Resp: 24772

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 25.8 | 23.0 | 34.4 |






#59
m/p-Xylene
Concen: 1.246 ppbv
RT: 9.529 min Scan# 2
Delta R.T. -0.023 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

Tgt Ion: 91 Resp: 6565

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 40.1 | 35.4 | 53.2 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025

**Manual Integrations**
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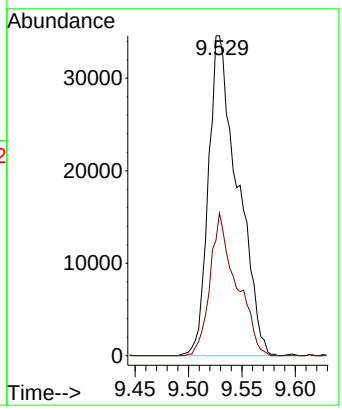
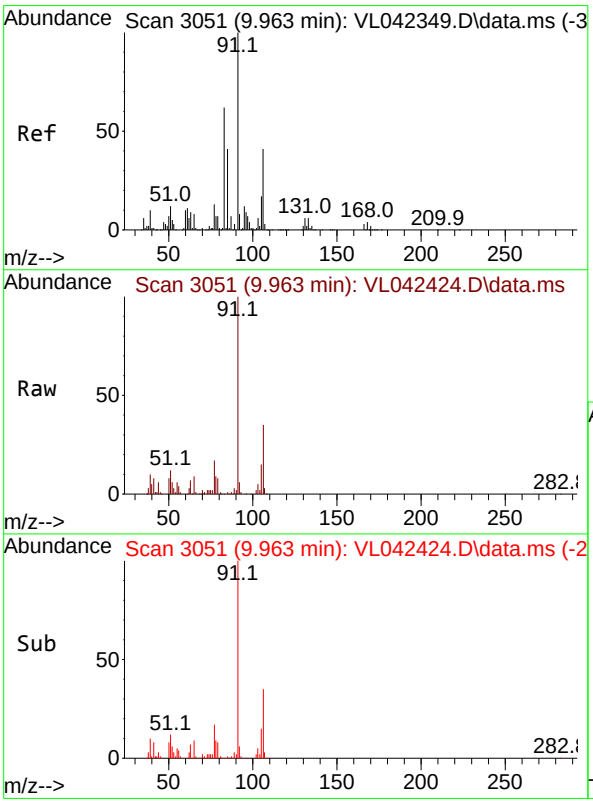
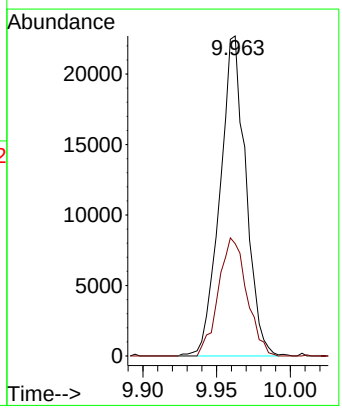


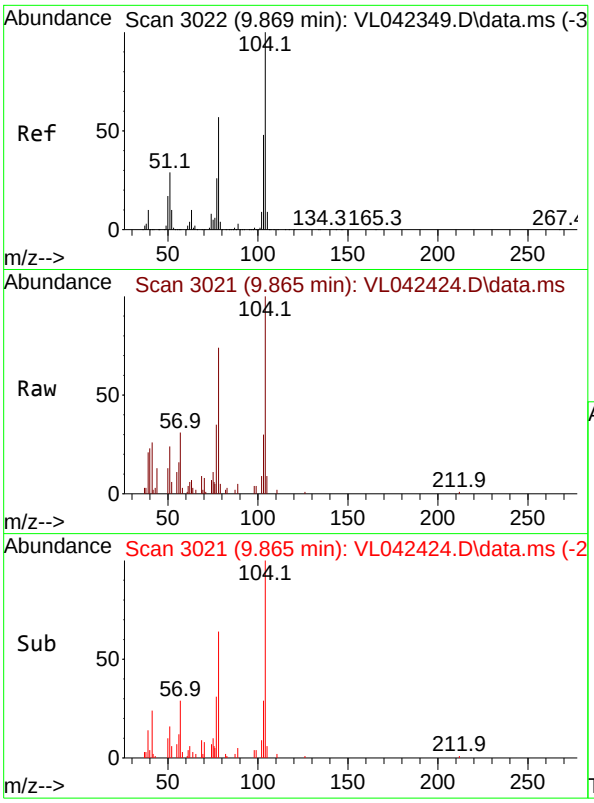




#60
o-Xylene
Concen: 0.522 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

Tgt Ion: 91 Resp: 27701

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 40.5 | 21.1 | 63.4 |

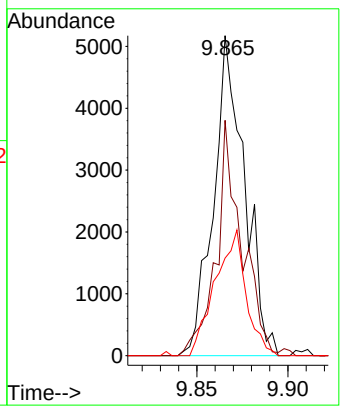





#61
Styrene
Concen: 0.242 ppbv
RT: 9.865 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

Tgt Ion:104 Resp: 613

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 61.0 | 44.6 | 66.8 |
| 103 | 39.2 | 37.4 | 56.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025

**Manual Integrations**
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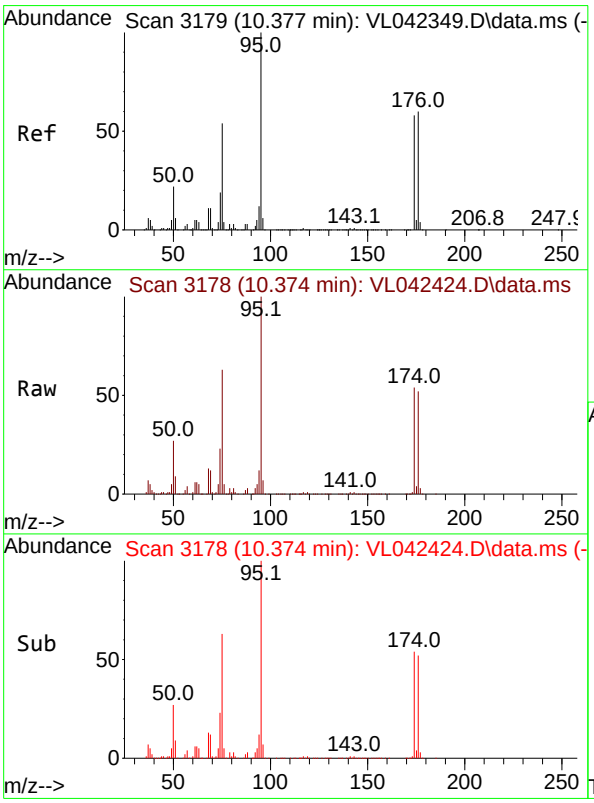
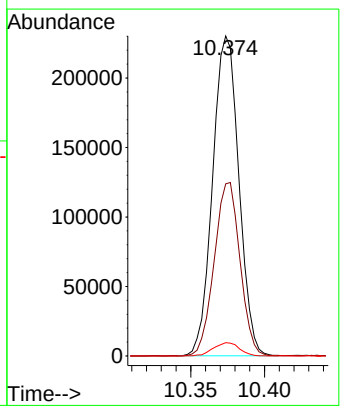
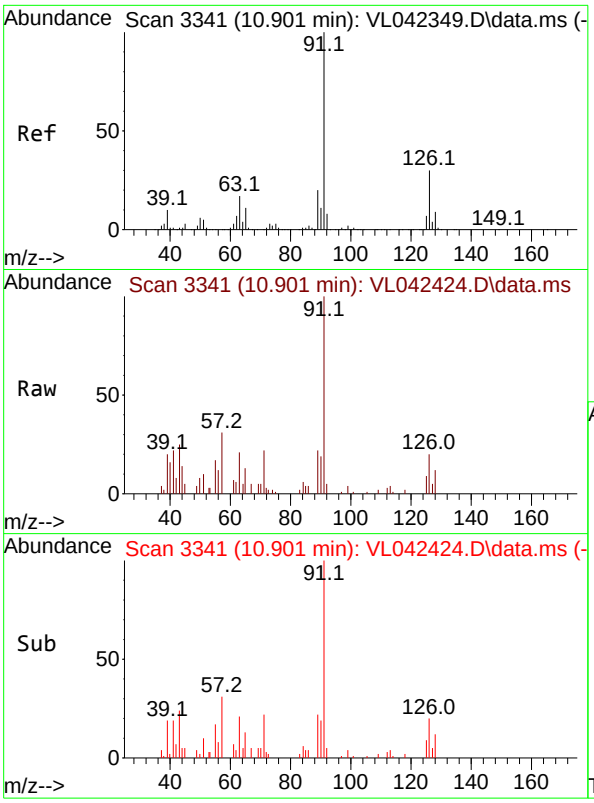



#68
1-Bromo-4-Fluorobenzene
Concen: 10.483 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.003 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

Tgt Ion: 95 Resp: 284407

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 53.4 | 48.5 | 72.7 |
| 175 | 4.1 | 3.7 | 5.5 |






#71
2-Chlorotoluene
Concen: 0.114 ppbv
RT: 10.901 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

Tgt Ion: 91 Resp: 694

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 37.9 | 11.4 | 45.4 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025

**Manual Integrations**
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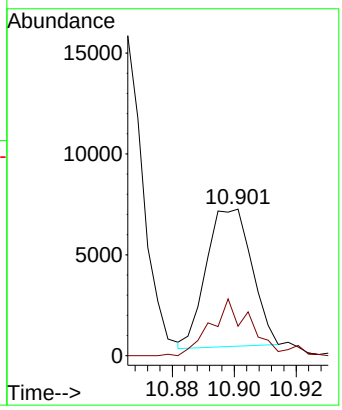
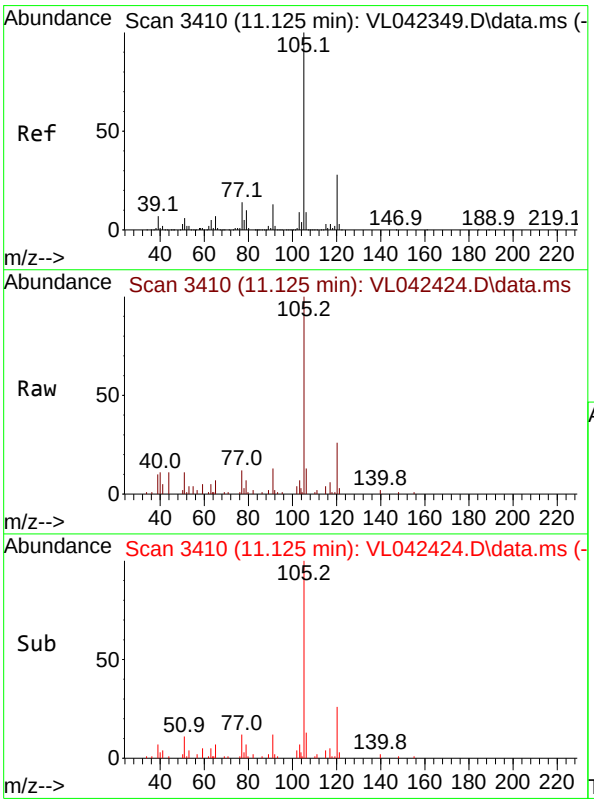
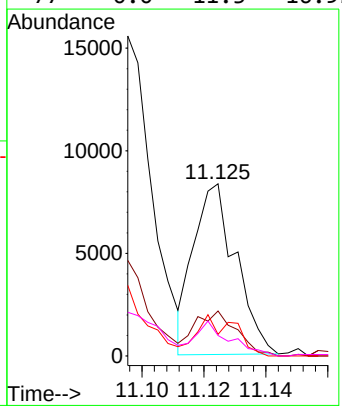


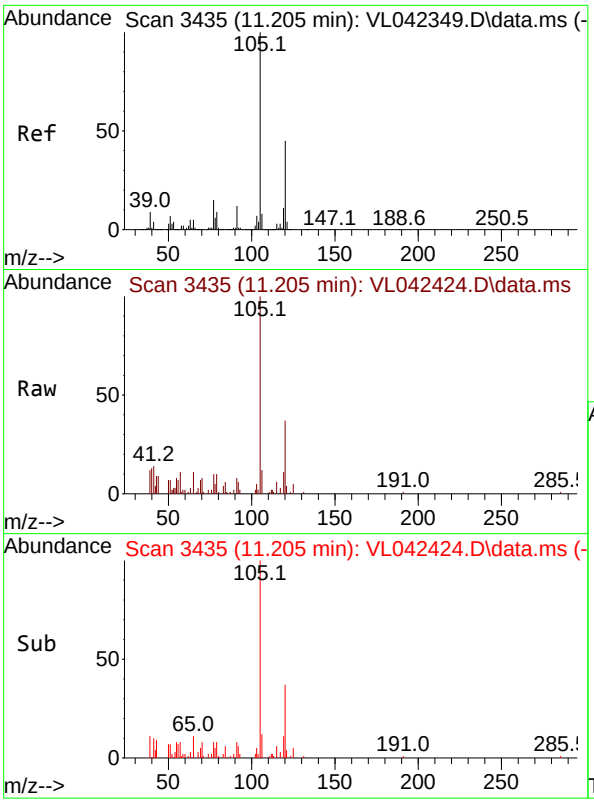




#72
4-Ethyltoluene
Concen: 0.121 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

Tgt Ion:105 Resp: 7865

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 0.0 | 23.2 | 34.8# |
| 91 | 0.0 | 10.4 | 15.6# |
| 77 | 0.0 | 11.3 | 16.9# |






#73
1,3,5-Trimethylbenzene
Concen: 0.125 ppbv
RT: 11.205 min Scan# 34
Delta R.T. 0.000 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

Tgt Ion:105 Resp: 718

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 41.4 | 35.6 | 53.4 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025

**Manual Integrations**
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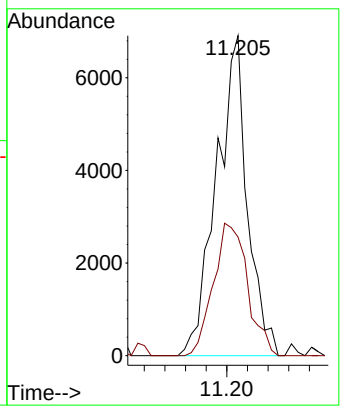
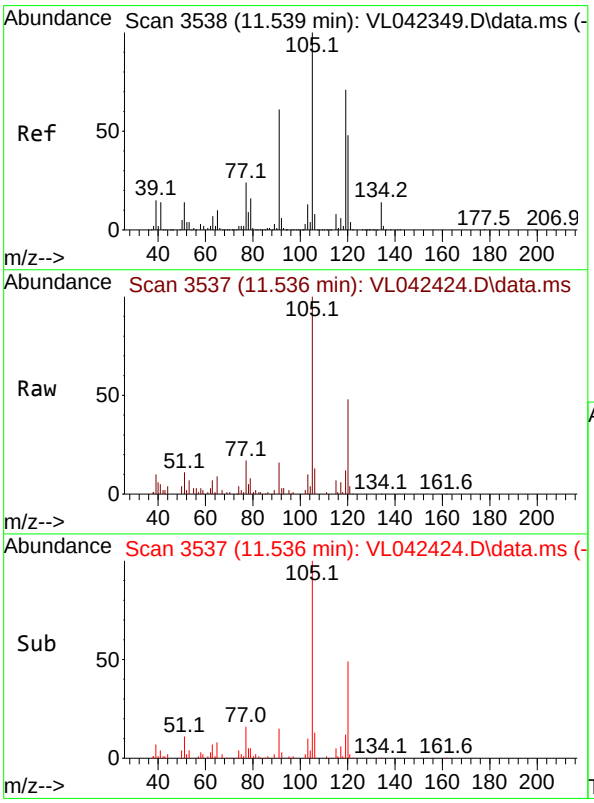
Supervised By :Mahesh Dadoda 04/30/2025

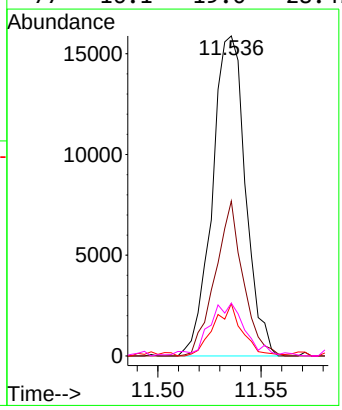



#74
1,2,4-Trimethylbenzene
Concen: 0.265 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.003 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

Tgt Ion:105 Resp: 17740

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 52.3 | 38.1 | 57.1 |
| 91 | 16.4 | 48.8 | 73.2# |
| 77 | 16.1 | 19.0 | 28.4# |



LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042424.D
Acq On : 28 Apr 2025 14:00
Operator : SY/MD
Sample : Q1665-21
Misc : 400mL/MSVOA_L
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

Signal : TIC: VL042424.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.431 | 410 | 415 | 420 | rBV | 4453684 | 5130355 | 100.00% | 30.756% |
| 2 | 1.486 | 427 | 432 | 434 | rBV2 | 133255 | 69285 | 1.35% | 0.415% |
| 3 | 1.557 | 450 | 454 | 458 | rBV2 | 344547 | 184584 | 3.60% | 1.107% |
| 4 | 1.622 | 470 | 474 | 478 | rVB | 122073 | 70727 | 1.38% | 0.424% |
| 5 | 1.722 | 500 | 505 | 512 | rBV | 3252290 | 2071007 | 40.37% | 12.416% |
| 6 | 1.835 | 535 | 540 | 547 | rBV | 772772 | 597296 | 11.64% | 3.581% |
| 7 | 1.884 | 549 | 555 | 563 | rBV | 1154046 | 819882 | 15.98% | 4.915% |
| 8 | 1.962 | 575 | 579 | 584 | rBV | 77587 | 55488 | 1.08% | 0.333% |
| 9 | 2.059 | 605 | 609 | 614 | rVB2 | 92933 | 68988 | 1.34% | 0.414% |
| 10 | 2.276 | 669 | 676 | 683 | rVB3 | 62455 | 58563 | 1.14% | 0.351% |
| 11 | 2.470 | 733 | 736 | 743 | rVB | 63804 | 63471 | 1.24% | 0.381% |
| 12 | 2.787 | 826 | 834 | 840 | rBV | 512857 | 536058 | 10.45% | 3.214% |
| 13 | 2.826 | 840 | 846 | 857 | rVB | 275455 | 333630 | 6.50% | 2.000% |
| 14 | 3.227 | 959 | 970 | 980 | rVB4 | 38811 | 58235 | 1.14% | 0.349% |
| 15 | 3.658 | 1087 | 1103 | 1108 | rBV4 | 30874 | 53290 | 1.04% | 0.319% |
| 16 | 3.690 | 1108 | 1113 | 1126 | rVB2 | 49510 | 76517 | 1.49% | 0.459% |
| 17 | 3.955 | 1183 | 1195 | 1208 | rVB2 | 656643 | 1047525 | 20.42% | 6.280% |
| 18 | 4.253 | 1276 | 1287 | 1302 | rBV6 | 64826 | 129682 | 2.53% | 0.777% |
| 19 | 6.930 | 2098 | 2114 | 2131 | rBV2 | 568690 | 1143292 | 22.28% | 6.854% |
| 20 | 7.687 | 2338 | 2348 | 2366 | rVB3 | 138634 | 242053 | 4.72% | 1.451% |
| 21 | 8.302 | 2531 | 2538 | 2551 | rVB9 | 27758 | 53329 | 1.04% | 0.320% |
| 22 | 8.878 | 2702 | 2716 | 2729 | rBV2 | 833653 | 1267582 | 24.71% | 7.599% |
| 23 | 9.351 | 2853 | 2862 | 2871 | rBV3 | 44560 | 65293 | 1.27% | 0.391% |
| 24 | 9.529 | 2908 | 2917 | 2935 | rVB3 | 102177 | 200305 | 3.90% | 1.201% |
| 25 | 9.959 | 3034 | 3050 | 3062 | rBV5 | 70893 | 146205 | 2.85% | 0.876% |
| 26 | 10.374 | 3160 | 3178 | 3190 | rBV2 | 1091012 | 1378657 | 26.87% | 8.265% |
| 27 | 10.856 | 3318 | 3327 | 3335 | rBV3 | 372854 | 445078 | 8.68% | 2.668% |
| 28 | 11.095 | 3393 | 3401 | 3406 | rBV2 | 47766 | 58593 | 1.14% | 0.351% |
| 29 | 11.426 | 3491 | 3503 | 3510 | rVB3 | 90950 | 115279 | 2.25% | 0.691% |
| 30 | 11.532 | 3530 | 3536 | 3547 | rBV3 | 52221 | 64850 | 1.26% | 0.389% |
| 31 | 11.752 | 3598 | 3604 | 3618 | rVB6 | 47133 | 75612 | 1.47% | 0.453% |

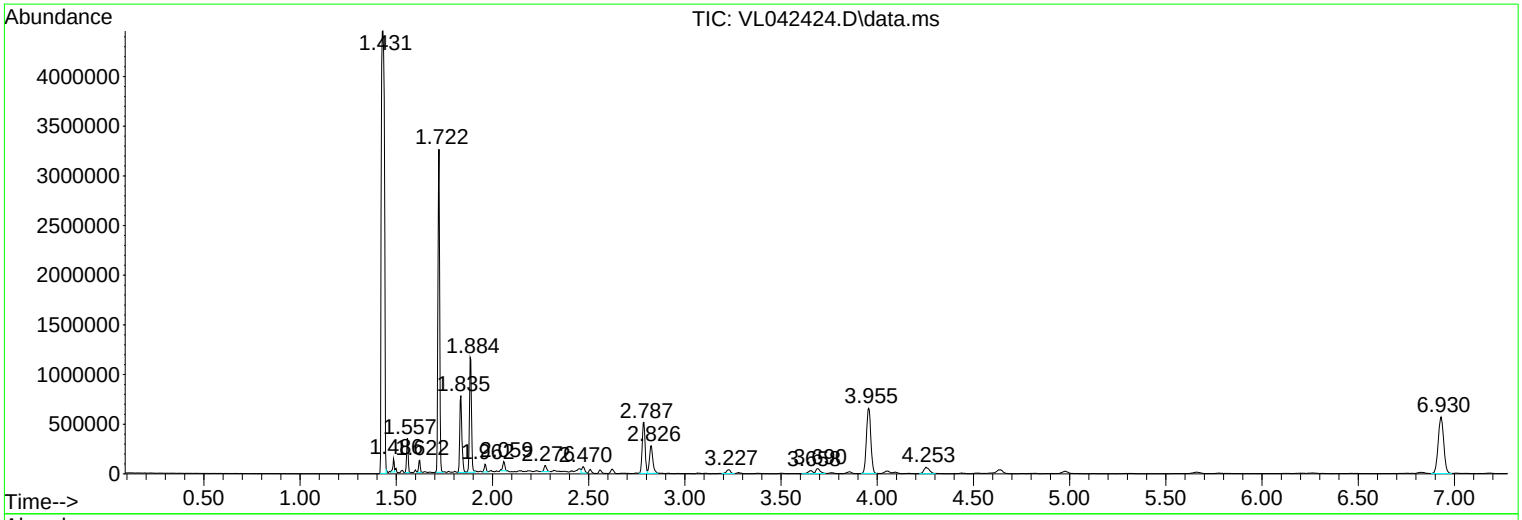
Sum of corrected areas: 16680711

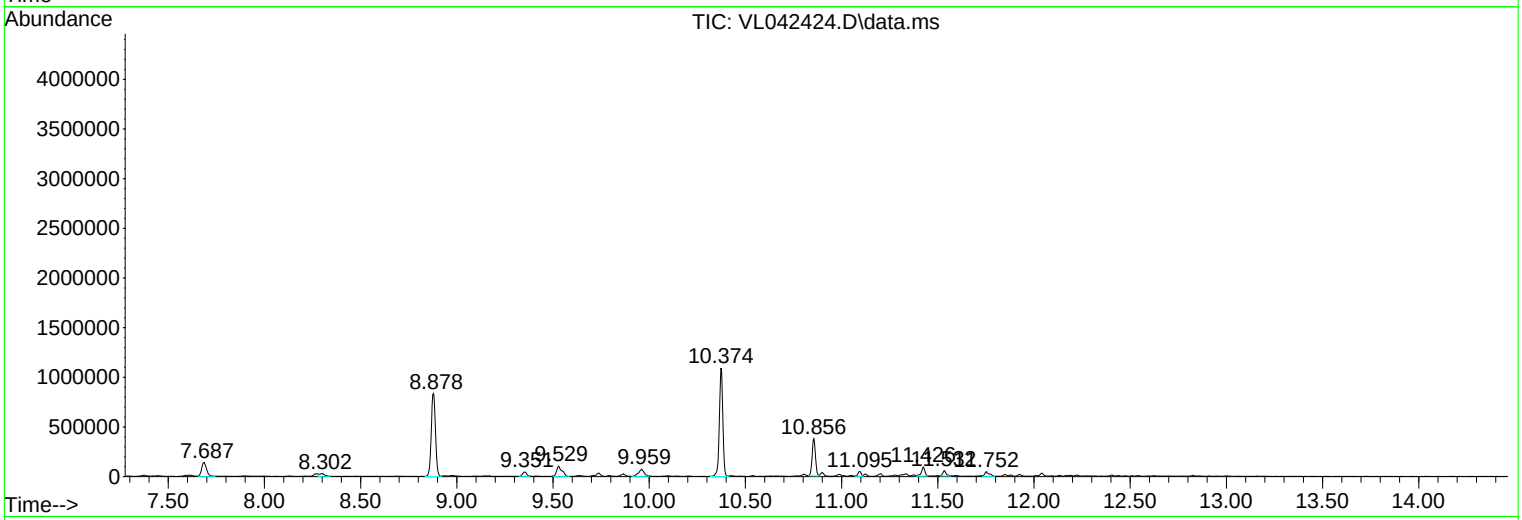
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042424.D
Acq On : 28 Apr 2025 14:00
Operator : SY/MD
Sample : Q1665-21
Misc : 400mL/MSVOA_L
ALS Vial : 11 Sample Multiplier: 1

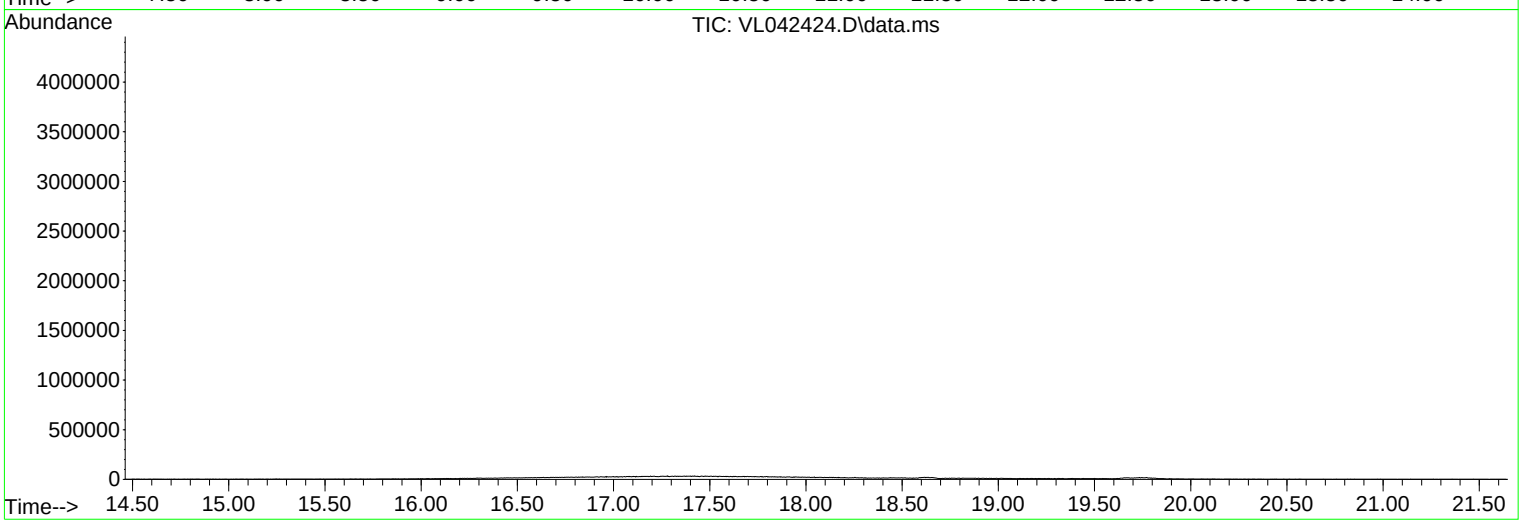
**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042424.D
Acq On : 28 Apr 2025 14:00
Operator : SY/MD
Sample : Q1665-21
Misc : 400mL/MSVOA_L
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

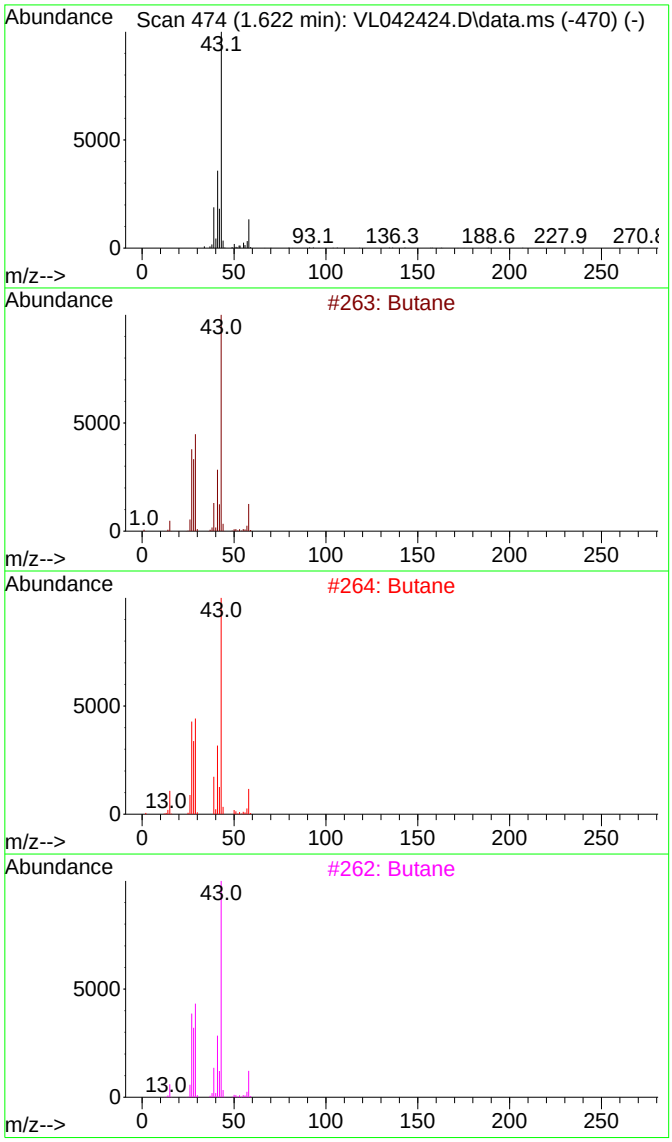
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

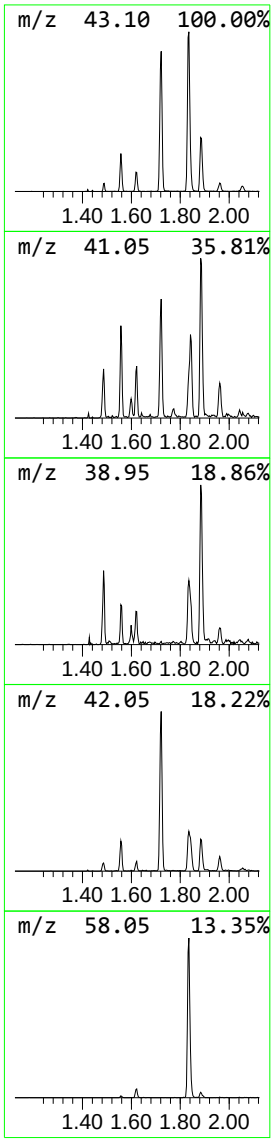
**********

Peak Number 1 Butane Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.622 | 1.32 ppbv | 70727 | Bromochloromethane | 2.784 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane | 58 | C4H10 | 000106-97-8 | 50 |
| 2 | Butane | 58 | C4H10 | 000106-97-8 | 50 |
| 3 | Butane | 58 | C4H10 | 000106-97-8 | 50 |
| 4 | Butane, 2,3-dimethyl- | 86 | C6H14 | 000079-29-8 | 9 |
| 5 | Isobutane | 58 | C4H10 | 000075-28-5 | 9 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042424.D
Acq On : 28 Apr 2025 14:00
Operator : SY/MD
Sample : Q1665-21
Misc : 400mL/MSVOA_L
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

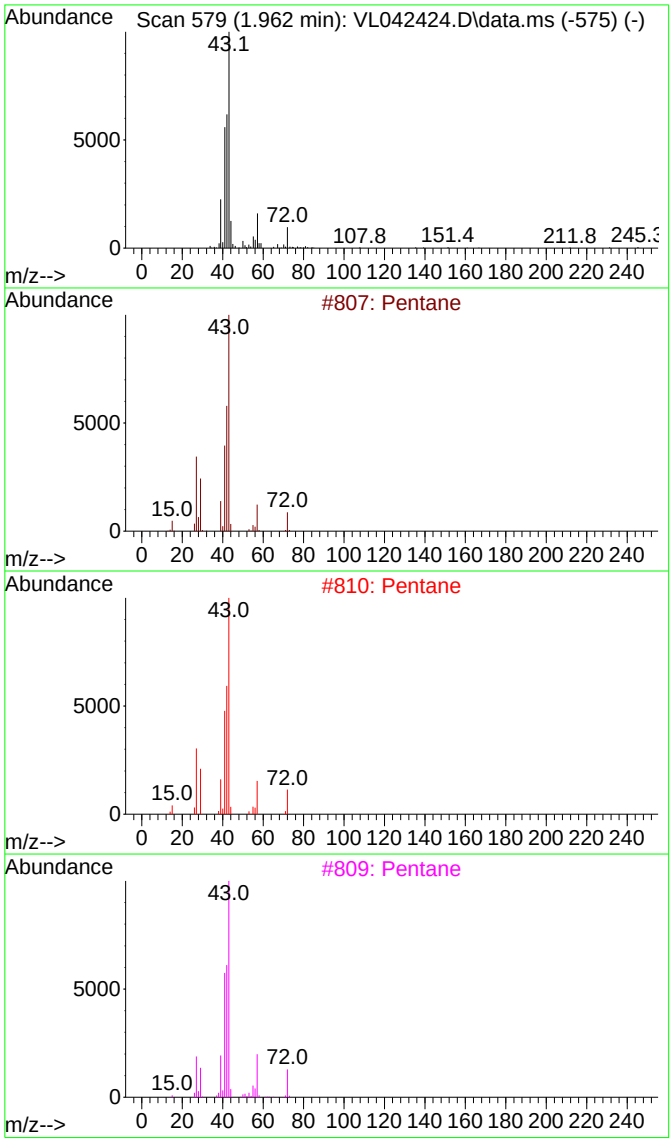
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

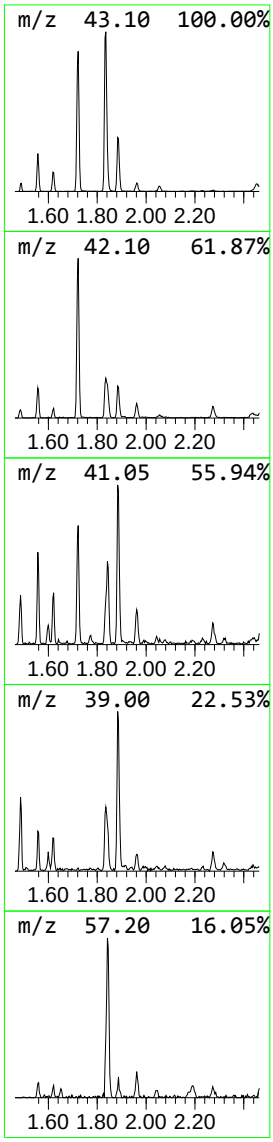
**********

Peak Number 2 Pentane Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.962 | 1.04 ppbv | 55488 | Bromochloromethane | 2.784 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane | 72 | C5H12 | 000109-66-0 | 72 |
| 2 | Pentane | 72 | C5H12 | 000109-66-0 | 72 |
| 3 | Pentane | 72 | C5H12 | 000109-66-0 | 72 |
| 4 | Pentane | 72 | C5H12 | 000109-66-0 | 72 |
| 5 | Pentane | 72 | C5H12 | 000109-66-0 | 53 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042424.D
Acq On : 28 Apr 2025 14:00
Operator : SY/MD
Sample : Q1665-21
Misc : 400mL/MSVOA_L
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025

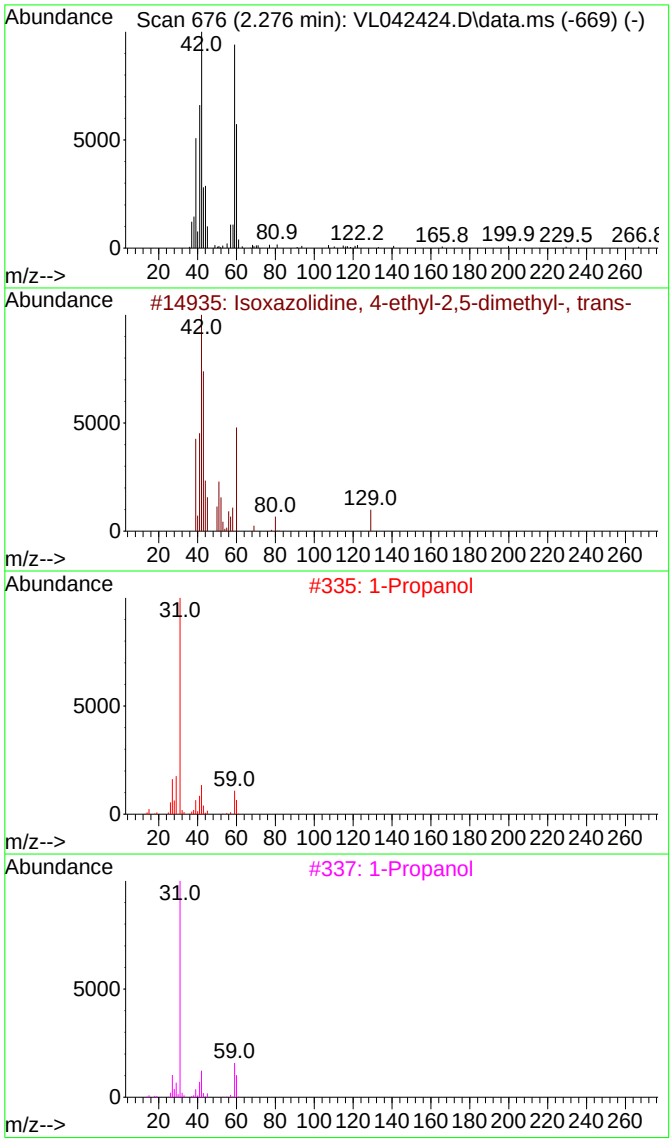
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

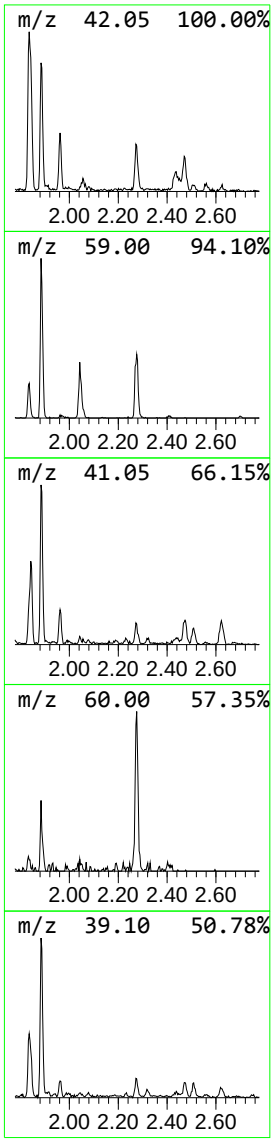
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 3 Isoxazolidine, 4-ethyl-2,5-... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.276 | 1.09 ppbv | 58563 | Bromochloromethane | 2.784 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Isoxazolidine, 4-ethyl-2,5-dimet... | 129 | C7H15NO | 056728-13-3 | 53 |
| 2 | 1-Propanol | 60 | C3H8O | 000071-23-8 | 50 |
| 3 | 1-Propanol | 60 | C3H8O | 000071-23-8 | 50 |
| 4 | 1-Propanol | 60 | C3H8O | 000071-23-8 | 43 |
| 5 | 1-Propanol | 60 | C3H8O | 000071-23-8 | 43 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042424.D
Acq On : 28 Apr 2025 14:00
Operator : SY/MD
Sample : Q1665-21
Misc : 400mL/MSVOA_L
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

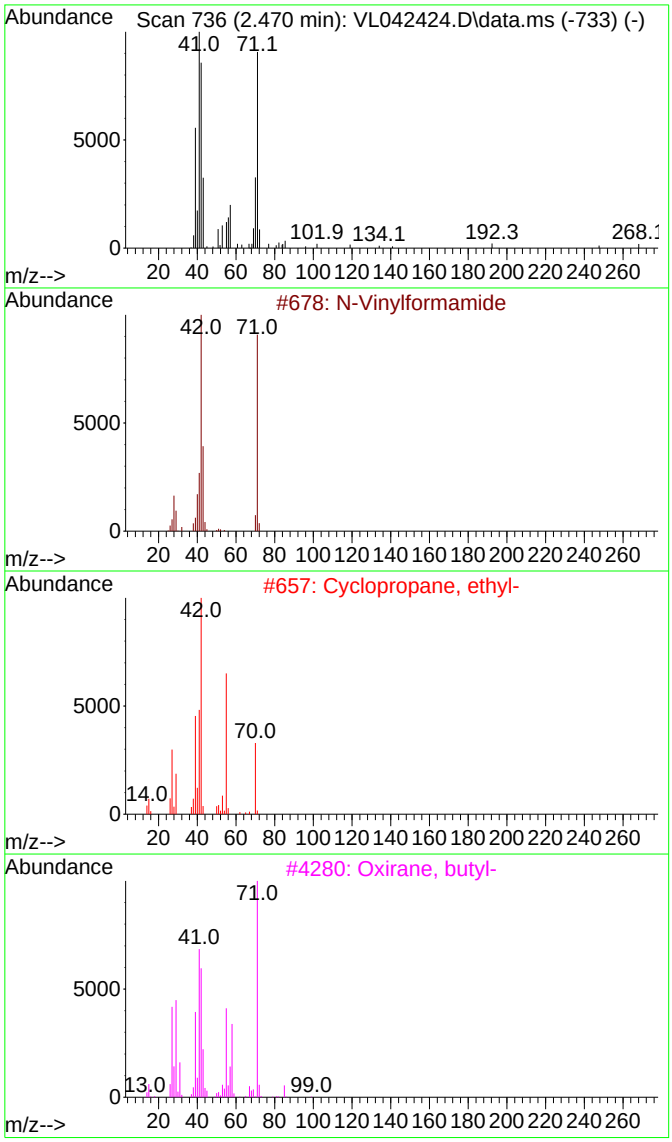
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

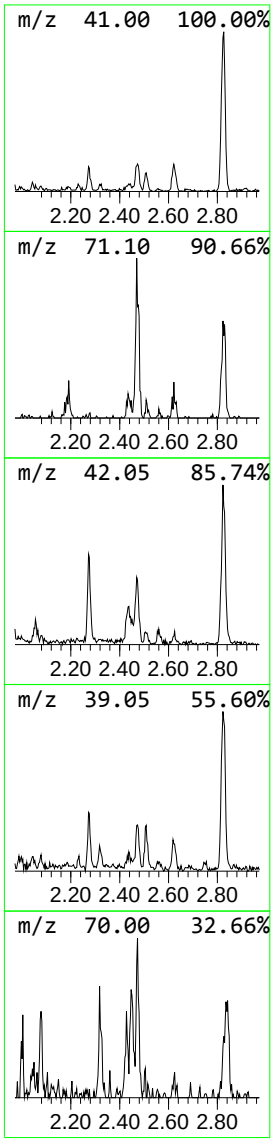
**********

Peak Number 4 N-Vinylformamide Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.470 | 1.18 ppbv | 63471 | Bromochloromethane | 2.784 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | N-Vinylformamide | 71 | C3H5NO | 013162-05-5 | 53 |
| 2 | Cyclopropane, ethyl- | 70 | C5H10 | 001191-96-4 | 43 |
| 3 | Oxirane, butyl- | 100 | C6H12O | 001436-34-6 | 40 |
| 4 | Oxirane, propyl- | 86 | C5H10O | 001003-14-1 | 35 |
| 5 | Butane, 1-bromo-2-methyl- | 150 | C5H11Br | 005973-11-5 | 28 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042424.D
Acq On : 28 Apr 2025 14:00
Operator : SY/MD
Sample : Q1665-21
Misc : 400mL/MSVOA_L
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

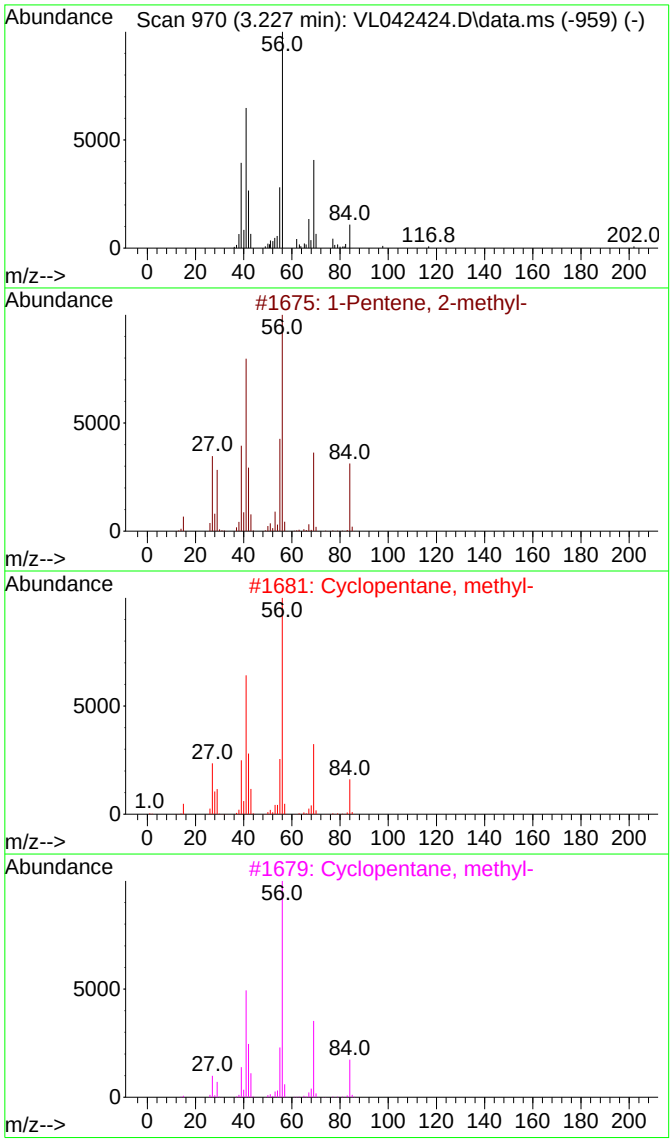
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

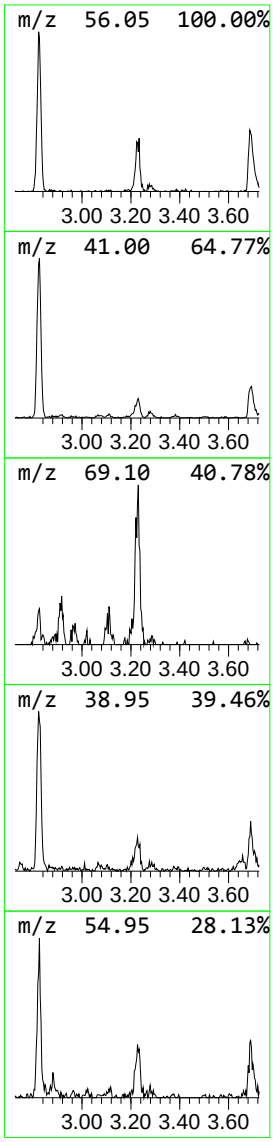
**********

Peak Number 5 1-Pentene, 2-methyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.227 | 1.09 ppbv | 58235 | Bromochloromethane | 2.784 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Pentene, 2-methyl- | 84 | C6H12 | 000763-29-1 | 72 |
| 2 | Cyclopentane, methyl- | 84 | C6H12 | 000096-37-7 | 52 |
| 3 | Cyclopentane, methyl- | 84 | C6H12 | 000096-37-7 | 52 |
| 4 | Cyclohexane | 84 | C6H12 | 000110-82-7 | 50 |
| 5 | 1H-Tetrazole, 5-methyl- | 84 | C2H4N4 | 004076-36-2 | 49 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042424.D
Acq On : 28 Apr 2025 14:00
Operator : SY/MD
Sample : Q1665-21
Misc : 400mL/MSVOA_L
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025

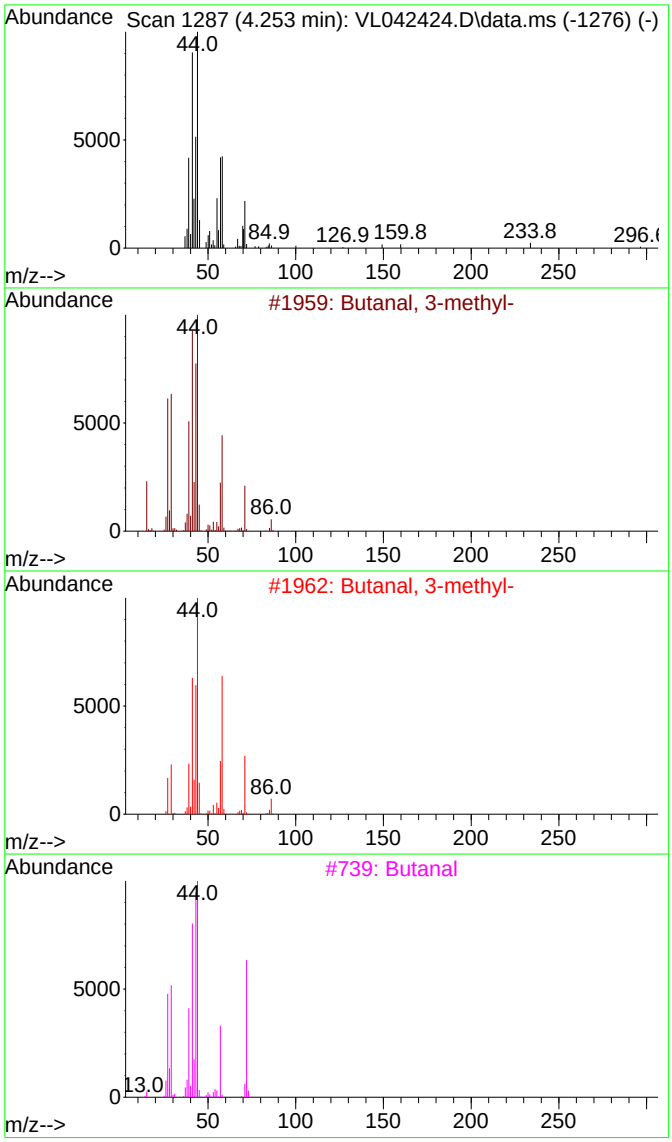
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

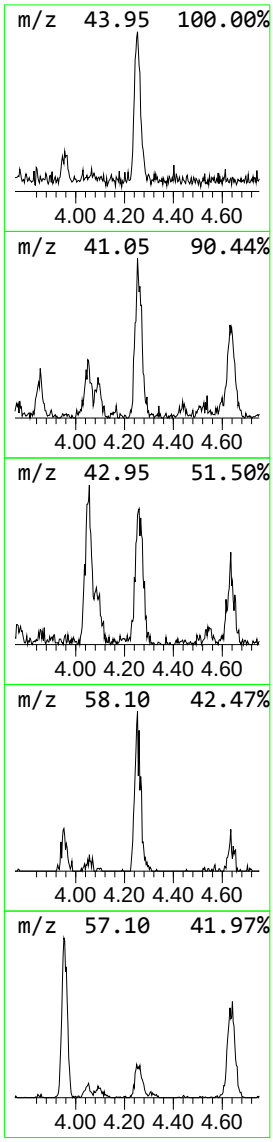
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 6 Butanal, 3-methyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.253 | 1.24 ppbv | 129682 | 1,4-Difluorobenzene | 3.955 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butanal, 3-methyl- | 86 | C5H10O | 000590-86-3 | 78 |
| 2 | Butanal, 3-methyl- | 86 | C5H10O | 000590-86-3 | 40 |
| 3 | Butanal | 72 | C4H8O | 000123-72-8 | 38 |
| 4 | Pentanal | 86 | C5H10O | 000110-62-3 | 38 |
| 5 | Butanal, 3-methyl- | 86 | C5H10O | 000590-86-3 | 33 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042424.D
Acq On : 28 Apr 2025 14:00
Operator : SY/MD
Sample : Q1665-21
Misc : 400mL/MSVOA_L
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

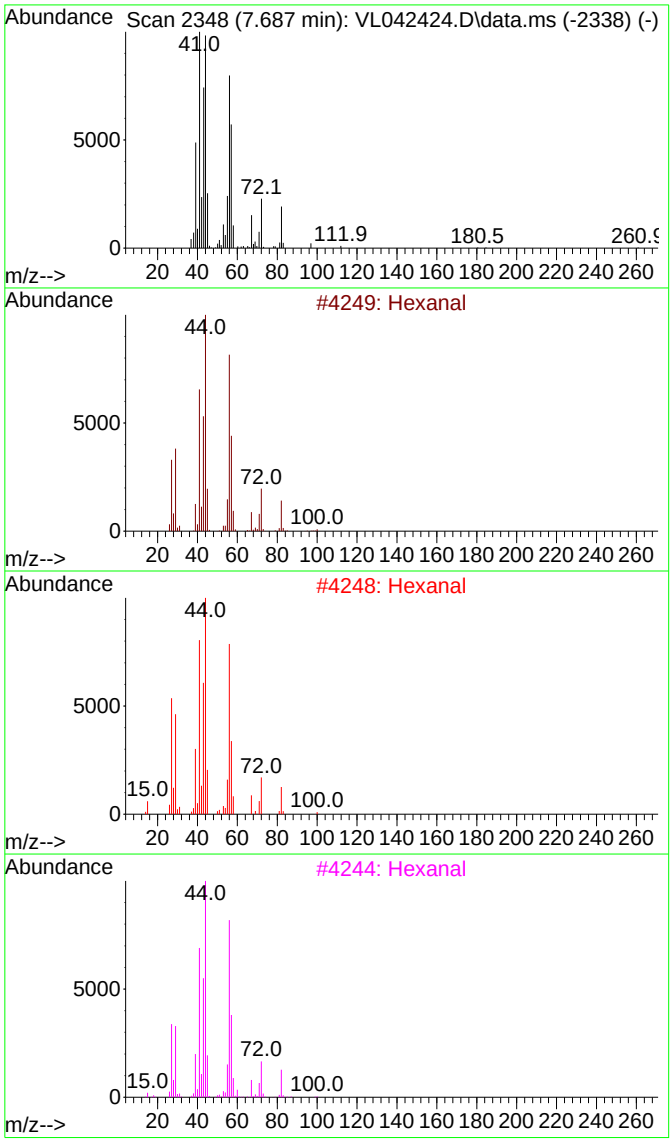
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

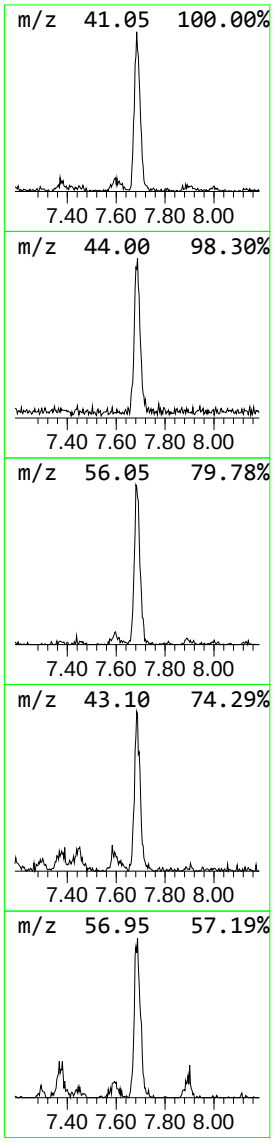
**********

Peak Number 7 Hexanal Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.687 | 1.91 ppbv | 242053 | Chlorobenzene-d5 | 8.878 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexanal | 100 | C6H12O | 000066-25-1 | 64 |
| 2 | Hexanal | 100 | C6H12O | 000066-25-1 | 64 |
| 3 | Hexanal | 100 | C6H12O | 000066-25-1 | 64 |
| 4 | Hexanal | 100 | C6H12O | 000066-25-1 | 59 |
| 5 | Cyclobutanol, 2-ethyl- | 100 | C6H12O | 035301-43-0 | 50 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042424.D
Acq On : 28 Apr 2025 14:00
Operator : SY/MD
Sample : Q1665-21
Misc : 400mL/MSVOA_L
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Butane | 1.622 | 1.3 | ppbv | 70727 | 1 | 2.784 | 536058 | 10.0 |
| Pentane | 1.962 | 1.0 | ppbv | 55488 | 1 | 2.784 | 536058 | 10.0 |
| Isoxazolidine, ... | 2.276 | 1.1 | ppbv | 58563 | 1 | 2.784 | 536058 | 10.0 |
| N-Vinylformamide | 2.470 | 1.2 | ppbv | 63471 | 1 | 2.784 | 536058 | 10.0 |
| 1-Pentene, 2-me... | 3.227 | 1.1 | ppbv | 58235 | 1 | 2.784 | 536058 | 10.0 |
| Butanal, 3-methyl- | 4.253 | 1.2 | ppbv | 129682 | 2 | 3.955 | 1047530 | 10.0 |
| Hexanal | 7.687 | 1.9 | ppbv | 242053 | 3 | 8.878 | 1267580 | 10.0 |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B2-1-3242025DL | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-21DL | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042453.D | 4 | | 04/29/25 18:42 | VL042925 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.84 | 4.15 | UD | 4.15 | 9.89 | ug/m3 |
| 64-17-5 | Ethanol | 770 | 1450 | EDQ | 2.45 | 3.77 | ug/m3 |
| 74-87-3 | Chloromethane | 0.64 | 1.32 | JD | 0.81 | 4.13 | ug/m3 |
| 75-01-4 | Vinyl Chloride | 0.060 | 0.15 | UD | 0.15 | 0.31 | ug/m3 |
| 74-83-9 | Bromomethane | 0.56 | 2.17 | UD | 2.17 | 7.77 | ug/m3 |
| 75-00-3 | Chloroethane | 0.68 | 1.79 | UD | 1.79 | 5.28 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | 0.52 | 1.53 | UD | 1.53 | 5.90 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | 0.64 | 3.60 | UD | 3.60 | 11.2 | ug/m3 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.64 | 4.91 | UD | 4.91 | 15.3 | ug/m3 |
| 76-14-2 | Dichlorotetrafluoroethane | 0.35 | 2.45 | UD | 2.45 | 14.0 | ug/m3 |
| 593-60-2 | Bromoethene | 0.48 | 2.10 | UD | 2.10 | 8.74 | ug/m3 |
| 75-65-0 | tert-Butyl alcohol | 0.76 | 2.30 | UD | 2.30 | 6.06 | ug/m3 |
| 142-82-5 | Heptane | 0.44 | 1.80 | UD | 1.80 | 8.20 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | 36.8 | 90.5 | D | 0.69 | 4.92 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethene | 0.56 | 2.22 | UD | 2.22 | 7.93 | ug/m3 |
| 67-64-1 | Acetone | 15.7 | 37.3 | D | 2.28 | 4.75 | ug/m3 |
| 75-15-0 | Carbon Disulfide | 0.64 | 1.99 | UD | 1.99 | 6.23 | ug/m3 |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.48 | 1.73 | UD | 1.73 | 7.21 | ug/m3 |
| 75-09-2 | Methylene Chloride | 3.20 | 11.1 | D | 2.64 | 6.95 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.76 | 3.01 | UD | 3.01 | 7.93 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | 0.52 | 2.10 | UD | 2.10 | 8.09 | ug/m3 |
| 110-82-7 | Cyclohexane | 0.88 | 3.03 | UD | 3.03 | 6.88 | ug/m3 |
| 78-93-3 | 2-Butanone | 0.70 | 2.06 | JD | 1.42 | 5.90 | ug/m3 |
| 56-23-5 | Carbon Tetrachloride | 0.040 | 0.25 | UD | 0.25 | 0.75 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.36 | 1.43 | UD | 1.43 | 7.93 | ug/m3 |
| 67-66-3 | Chloroform | 0.33 | 1.61 | UD | 1.61 | 9.77 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.040 | 0.22 | UD | 0.22 | 0.65 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | 0.40 | 1.87 | UD | 1.87 | 9.34 | ug/m3 |
| 71-43-2 | Benzene | 0.35 | 1.12 | UD | 1.12 | 6.39 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | 0.36 | 1.46 | UD | 1.46 | 8.09 | ug/m3 |
| 79-01-6 | Trichloroethene | 0.070 | 0.38 | UD | 0.38 | 0.64 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | 0.44 | 2.03 | UD | 2.03 | 9.24 | ug/m3 |
| 75-27-4 | Bromodichloromethane | 0.31 | 2.08 | UD | 2.08 | 13.4 | ug/m3 |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.37 | 1.52 | UD | 1.52 | 8.20 | ug/m3 |
| 108-88-3 | Toluene | 5.70 | 21.5 | D | 1.66 | 7.54 | ug/m3 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B2-1-3242025DL | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-21DL | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042453.D | 4 | | 04/29/25 18:42 | VL042925 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.24 | 1.09 | UD | 1.09 | 9.08 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.26 | 1.18 | UD | 1.18 | 9.08 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.28 | 1.53 | UD | 1.53 | 10.9 | ug/m3 |
| 124-48-1 | Dibromochloromethane | 0.26 | 2.22 | UD | 2.22 | 17.0 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane | 0.29 | 2.23 | UD | 2.23 | 3.07 | ug/m3 |
| 127-18-4 | Tetrachloroethene | 0.060 | 0.41 | UD | 0.41 | 0.81 | ug/m3 |
| 108-90-7 | Chlorobenzene | 0.30 | 1.38 | UD | 1.38 | 9.21 | ug/m3 |
| 100-41-4 | Ethyl Benzene | 0.48 | 2.08 | UD | 2.08 | 8.69 | ug/m3 |
| 179601-23-1 | m/p-Xylene | 0.84 | 3.65 | UD | 3.65 | 17.4 | ug/m3 |
| 95-47-6 | o-Xylene | 0.48 | 2.08 | UD | 2.08 | 8.69 | ug/m3 |
| 100-42-5 | Styrene | 0.44 | 1.87 | UD | 1.87 | 8.52 | ug/m3 |
| 75-25-2 | Bromoform | 0.23 | 2.38 | UD | 2.38 | 20.7 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.040 | 0.27 | UD | 0.27 | 0.82 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | 0.44 | 2.28 | UD | 2.28 | 10.4 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.44 | 2.16 | UD | 2.16 | 9.83 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.31 | 1.52 | UD | 1.52 | 9.83 | ug/m3 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.32 | 1.92 | UD | 1.92 | 12.0 | ug/m3 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.21 | 1.26 | UD | 1.26 | 12.0 | ug/m3 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.30 | 1.80 | UD | 1.80 | 12.0 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.34 | 2.52 | UD | 2.52 | 14.8 | ug/m3 |
| 87-68-3 | Hexachloro-1,3-Butadiene | 0.34 | 3.63 | UD | 3.63 | 21.3 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | 0.52 | 1.15 | UD | 1.15 | 4.42 | ug/m3 |
| 91-20-3 | Naphthalene | 0.30 | 1.57 | UD | 1.57 | 2.10 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | 0.48 | 2.36 | UD | 2.36 | 9.83 | ug/m3 |
| 110-54-3 | Hexane | 2.30 | 8.11 | D | 1.55 | 7.05 | ug/m3 |
| 107-05-1 | Allyl Chloride | 0.60 | 1.88 | UD | 1.88 | 6.26 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | 0.84 | 3.03 | UD | 3.03 | 7.21 | ug/m3 |
| 80-62-6 | Methyl Methacrylate | 0.34 | 1.39 | UD | 1.39 | 8.19 | ug/m3 |
| **SURROGATES** | | | | | | | |
| 460-00-4 | 1-Bromo-4-Fluorobenzene | 10.9 | | | 70 (65) - 130 (135) | 109% | SPK: 10 |
| **INTERNAL STANDARDS** | | | | | | | |
| 74-97-5 | Bromochloromethane | 114000 | | 2.797 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 303000 | | 3.972 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 258000 | | 8.895 | | | |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B2-1-3242025DL | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-21DL | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042453.D | 4 | | 04/29/25 18:42 | VL042925 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
Data File : VL042453.D
Acq On : 29 Apr 2025 18:42
Operator : SY/MD
Sample : Q1665-21DL 4X
Misc : 400mL/MSVOA_L
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 30 01:24:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025DL

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.797 | 49 | 114227 | 10.000 | ppbv | 0.01 |
| 33) 1,4-Difluorobenzene | 3.972 | 114 | 302811 | 10.000 | ppbv | 0.01 |
| 55) Chlorobenzene-d5 | 8.895 | 117 | 257605 | 10.000 | ppbv | 0.01 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.387 | 95 | 229916 | 10.861 | ppbv | 0.01 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 108.600% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.502 | 85 | 2620 | 0.130 | ppbv # | 72 |
| 4) Chloromethane | 1.535 | 50 | 1272 | 0.159 | ppbv # | 87 |
| 9) Propene | 1.493 | 41 | 2655m | 0.303 | ppbv | |
| 13) Ethanol | 1.726 | 45 | 267493 | 192.292 | ppbv | 76 |
| 15) Acetone | 1.842 | 43 | 73473 | 3.929 | ppbv | 100 |
| 19) Isopropyl Alcohol | 1.891 | 45 | 95671 | 9.210 | ppbv # | 36 |
| 20) Methylene Chloride | 2.069 | 84 | 5787 | 0.790 | ppbv | 92 |
| 26) Hexane | 2.836 | 57 | 10634 | 0.570 | ppbv # | 39 |
| 34) 2-Butanone | 2.567 | 43 | 4171 | 0.174 | ppbv | 94 |
| 53) Toluene | 6.950 | 91 | 56027 | 1.429 | ppbv | 97 |
| 59) m/p-Xylene | 9.539 | 91 | 7499m | 0.182 | ppbv | |

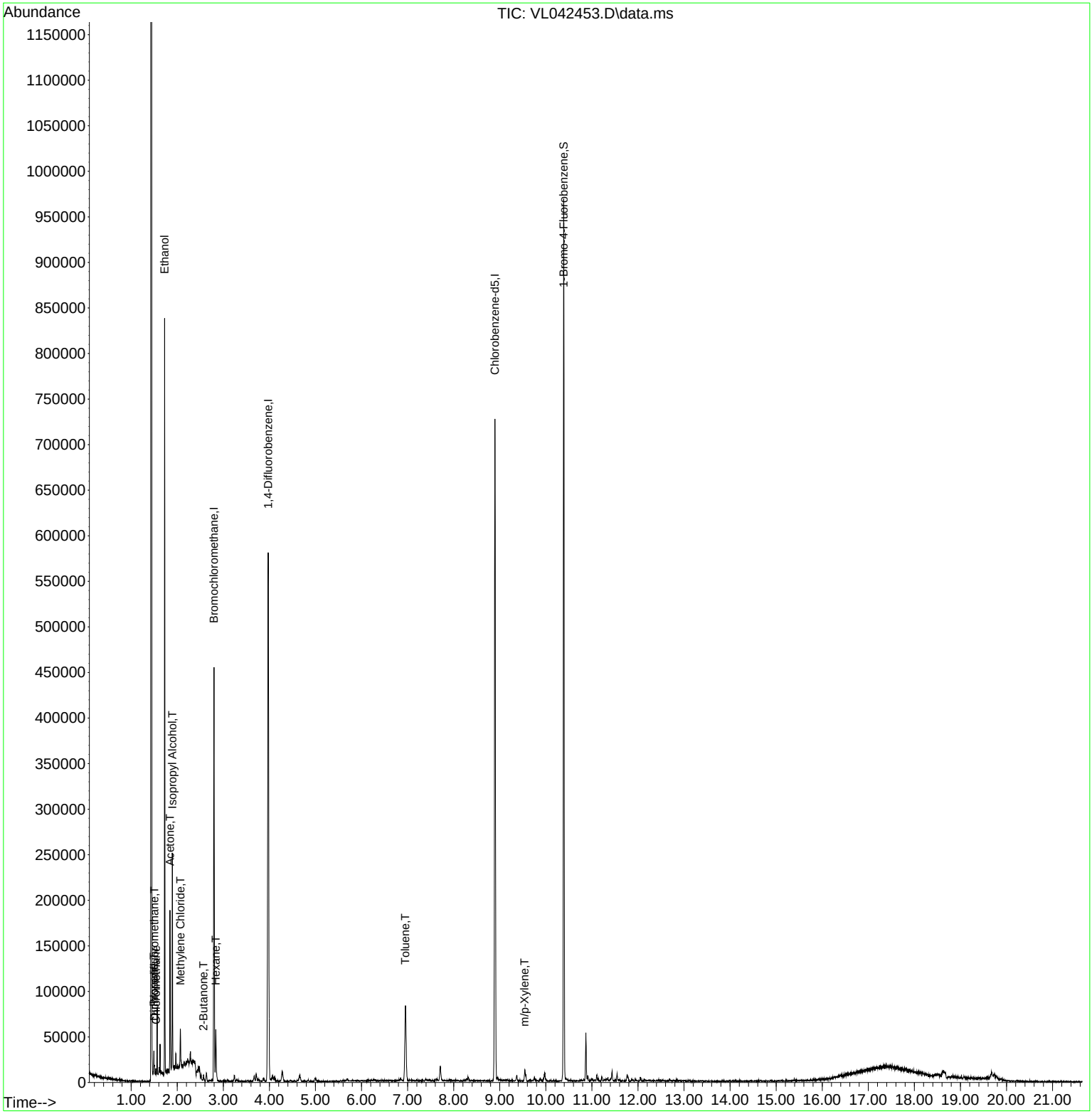
(#) = qualifier out of range (m) = manual integration (+) = signals summed

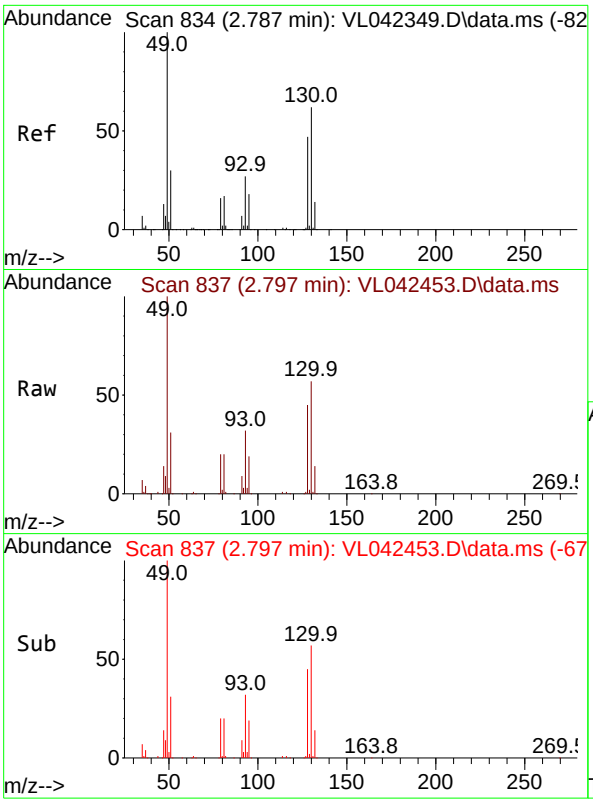
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
Data File : VL042453.D
Acq On : 29 Apr 2025 18:42
Operator : SY/MD
Sample : Q1665-21DL 4X
Misc : 400mL/MSVOA_L
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 30 01:24:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025DL

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025






#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 8
Delta R.T. 0.010 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

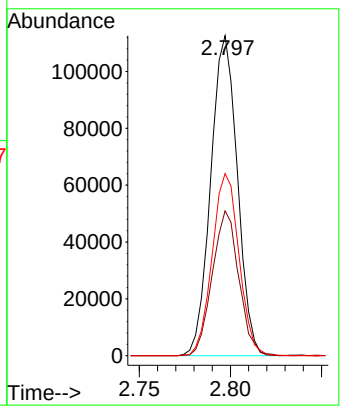
Tgt Ion: 49 Resp: 11422

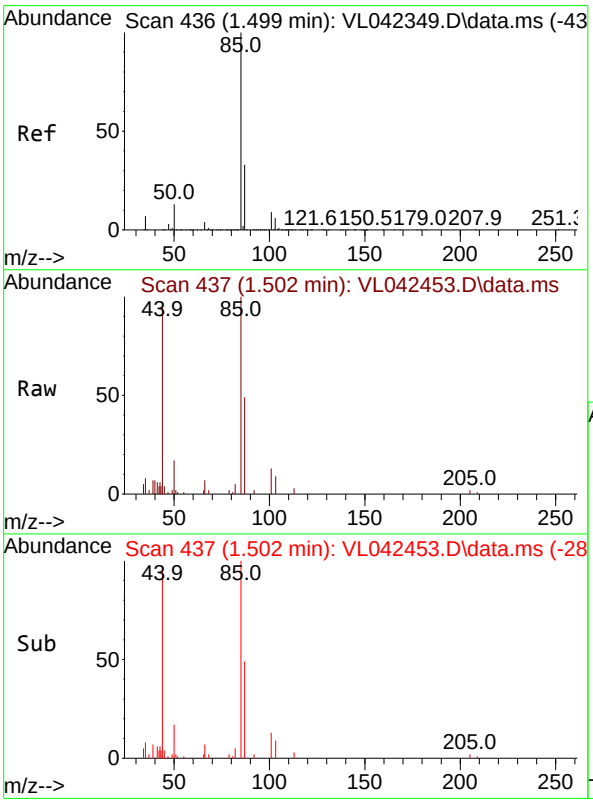
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 44.9 | 22.8 | 68.4 |
| 130 | 57.3 | 29.3 | 88.0 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025DL

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

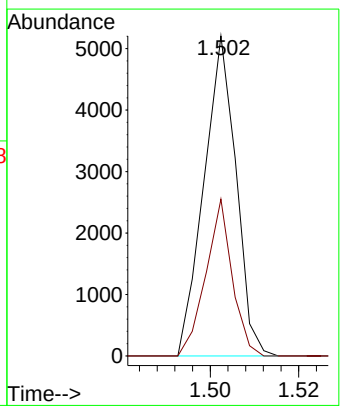


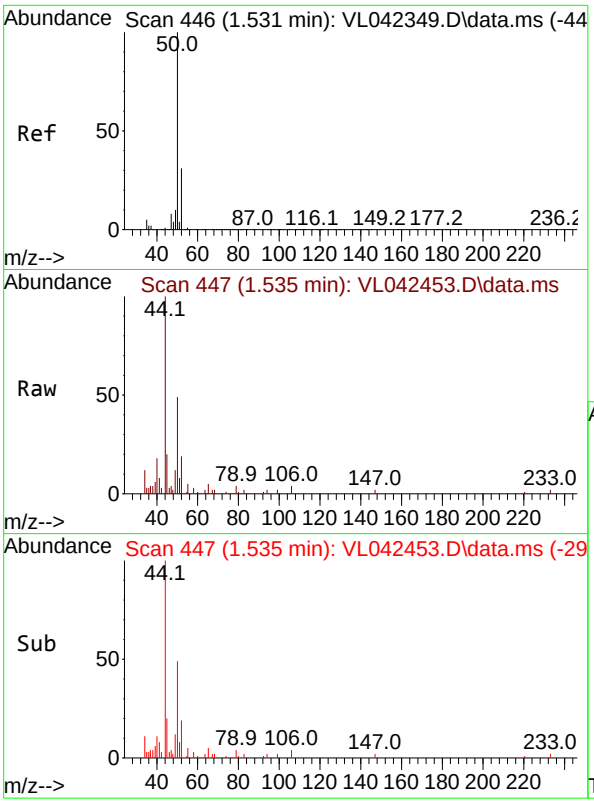




#2
Dichlorodifluoromethane
Concen: 0.130 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.004 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

Tgt Ion: 85 Resp: 2620

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 49.0 | 26.6 | 39.8# |

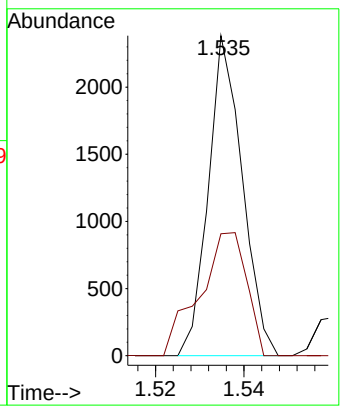





#4
Chloromethane
Concen: 0.159 ppbv
RT: 1.535 min Scan# 44
Delta R.T. 0.004 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

Tgt Ion: 50 Resp: 127

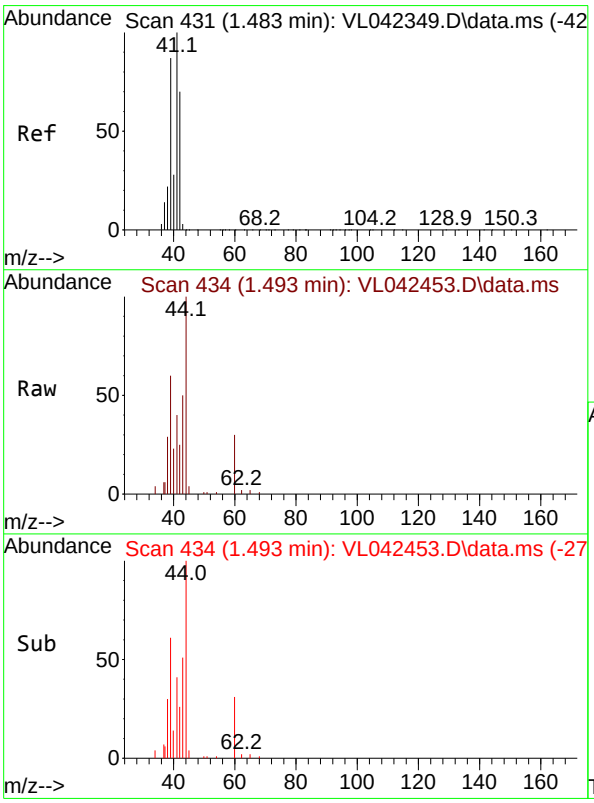
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 38.1 | 24.7 | 37.1# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025DL

**Manual Integrations**
**APPROVED**

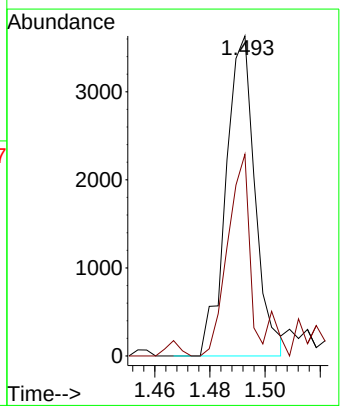
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

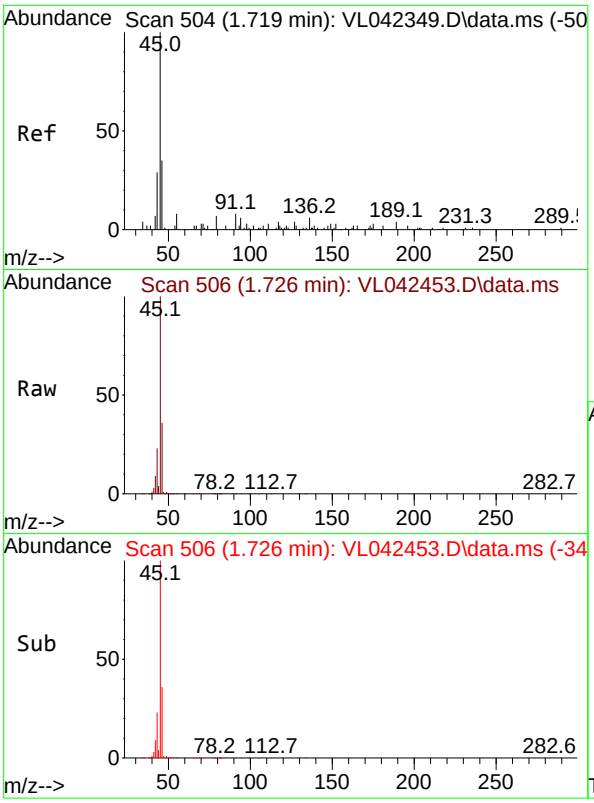



#9
Propene
Concen: 0.303 ppbv m
RT: 1.493 min Scan# 434
Delta R.T. 0.010 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

Tgt Ion: 41 Resp: 2655

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 77.1 | 56.2 | 84.4 |

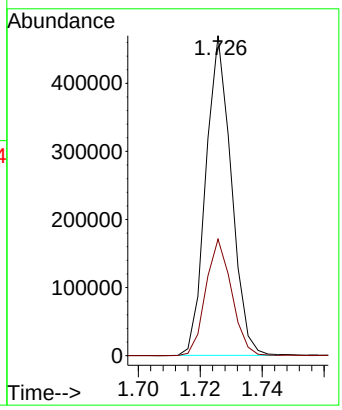





#13
Ethanol
Concen: 192.292 ppbv
RT: 1.726 min Scan# 5
Delta R.T. 0.007 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

Tgt Ion: 45 Resp: 26749

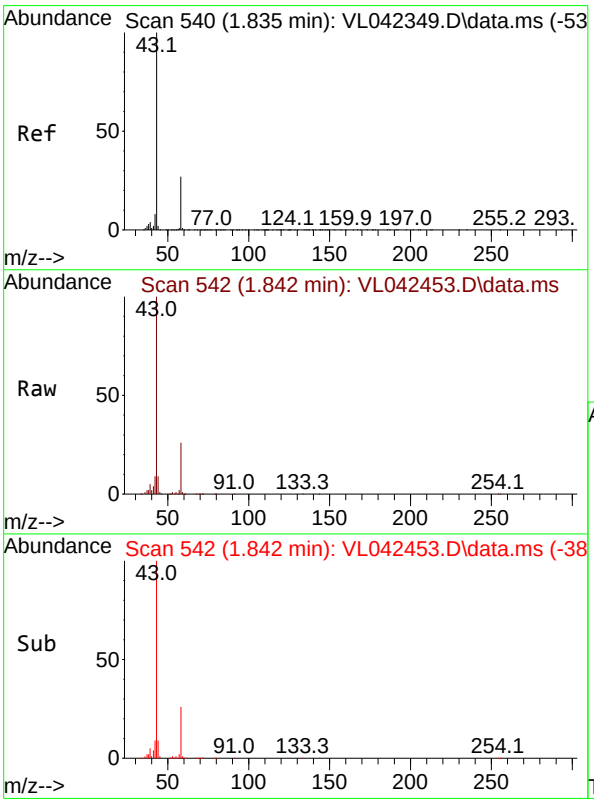
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 37.5 | 21.9 | 87.7 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025DL

**Manual Integrations**
**APPROVED**

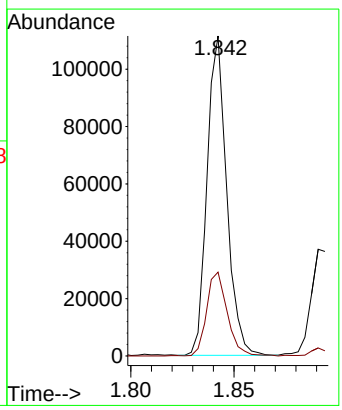
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

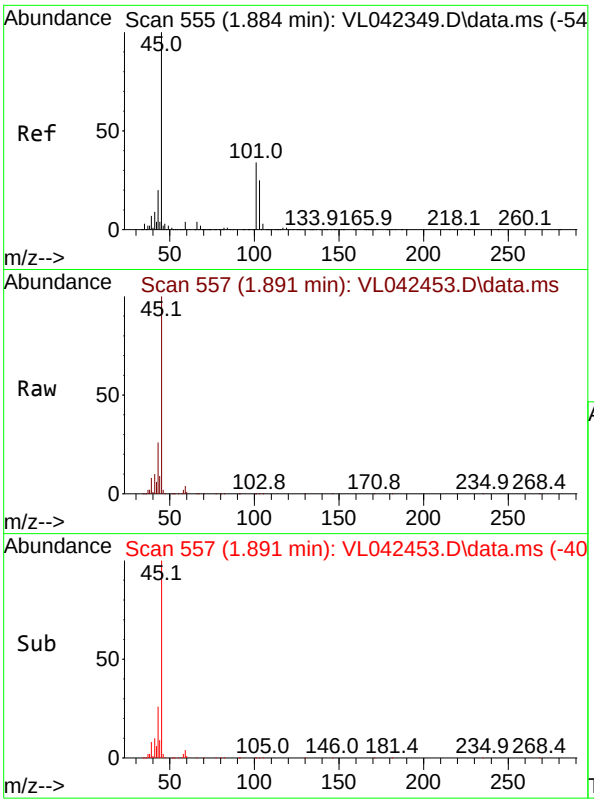



#15
Acetone
Concen: 3.929 ppbv
RT: 1.842 min Scan# 542
Delta R.T. 0.007 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

Tgt Ion: 43 Resp: 73473

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 27.8 | 22.4 | 33.6 |

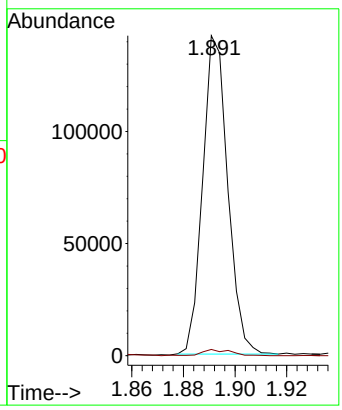





#19
Isopropyl Alcohol
Concen: 9.210 ppbv
RT: 1.891 min Scan# 5
Delta R.T. 0.007 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

Tgt Ion: 45 Resp: 9567

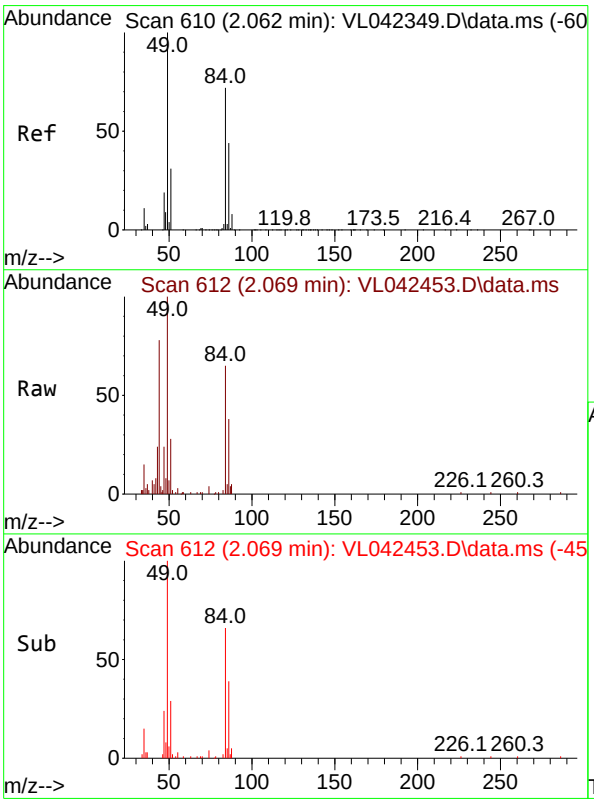
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 2.3 | 34.5 | 51.7# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025DL

**Manual Integrations**
**APPROVED**

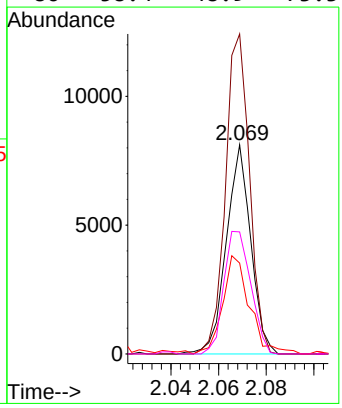
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

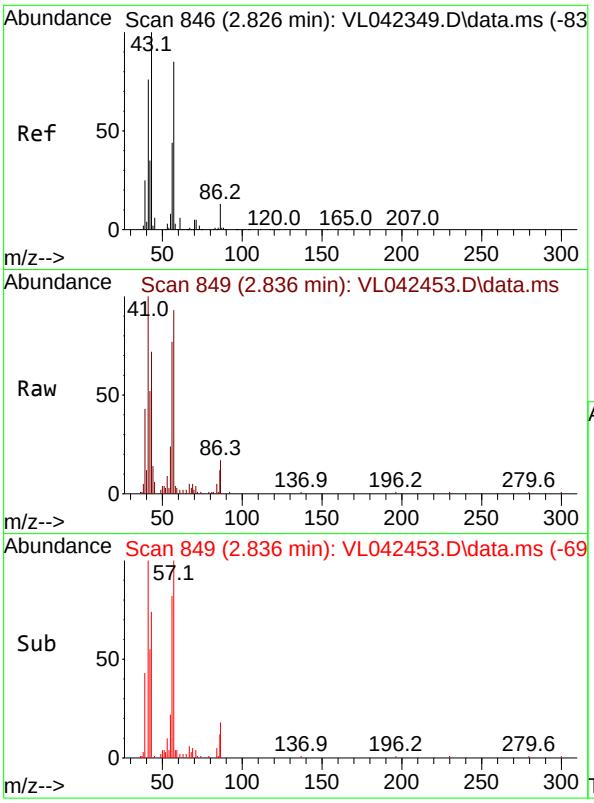



#20
Methylene Chloride
Concen: 0.790 ppbv
RT: 2.069 min Scan# 612
Delta R.T. 0.007 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

Tgt Ion: 84 Resp: 5787

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 153.1 | 111.6 | 167.4 |
| 51 | 42.5 | 35.1 | 52.7 |
| 86 | 58.4 | 48.9 | 73.3 |

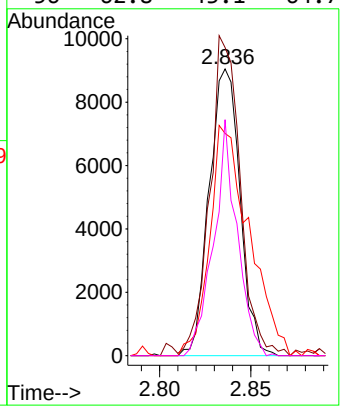





#26
Hexane
Concen: 0.570 ppbv
RT: 2.836 min Scan# 84
Delta R.T. 0.010 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

Tgt Ion: 57 Resp: 1063

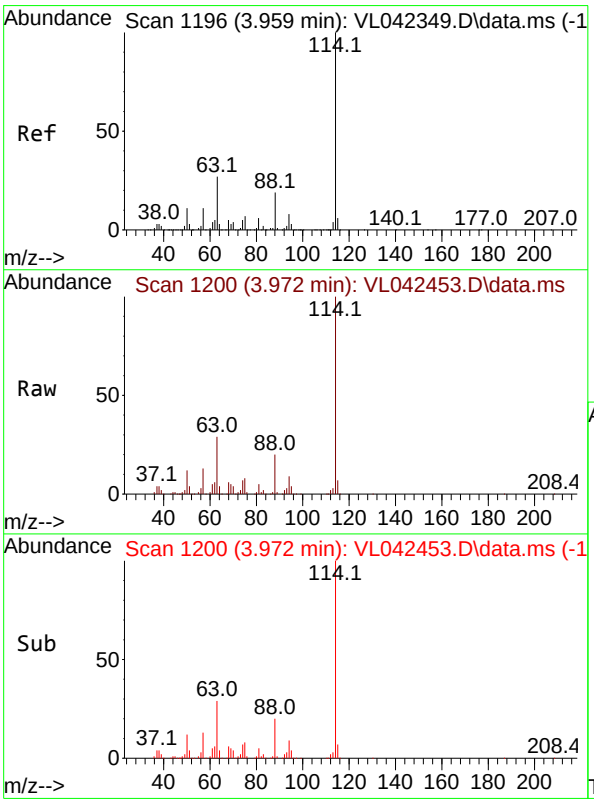
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 112.6 | 77.9 | 116.9 |
| 43 | 102.9 | 208.4 | 312.6 |
| 56 | 62.8 | 43.1 | 64.7 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025DL

**Manual Integrations**
**APPROVED**

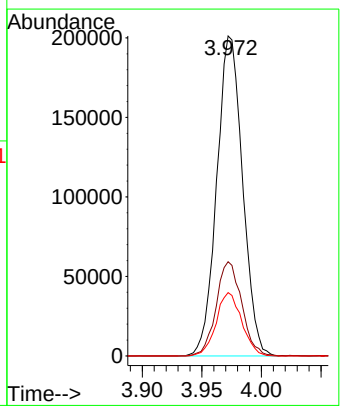
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

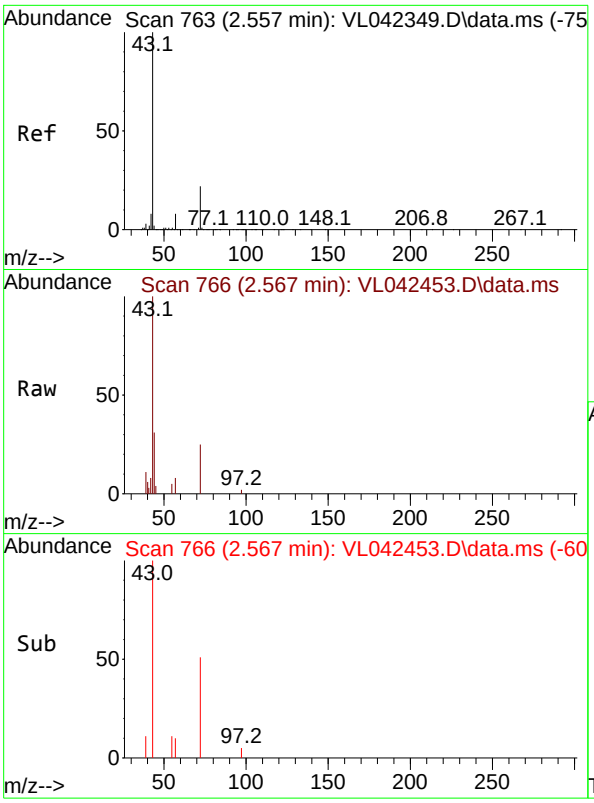



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.972 min Scan# 1200
Delta R.T. 0.013 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

Tgt Ion:114 Resp: 302811

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 29.1 | 21.8 | 32.6 |
| 88 | 19.6 | 15.5 | 23.3 |

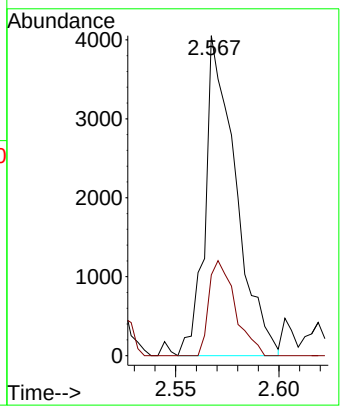





#34
2-Butanone
Concen: 0.174 ppbv
RT: 2.567 min Scan# 7
Delta R.T. 0.010 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

Tgt Ion: 43 Resp: 417

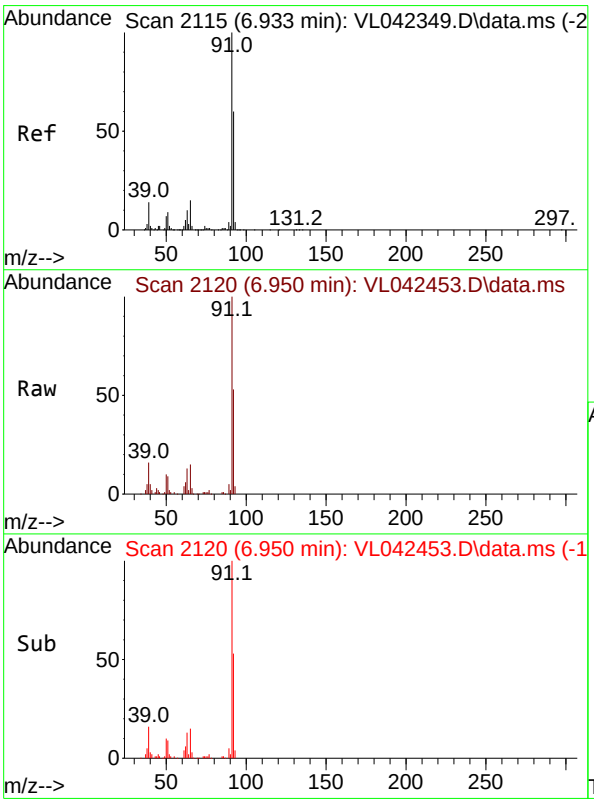
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 25.4 | 18.2 | 27.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025DL

**Manual Integrations**
**APPROVED**

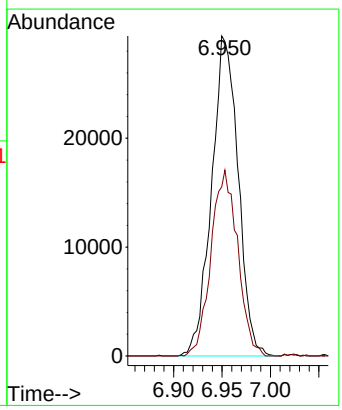
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

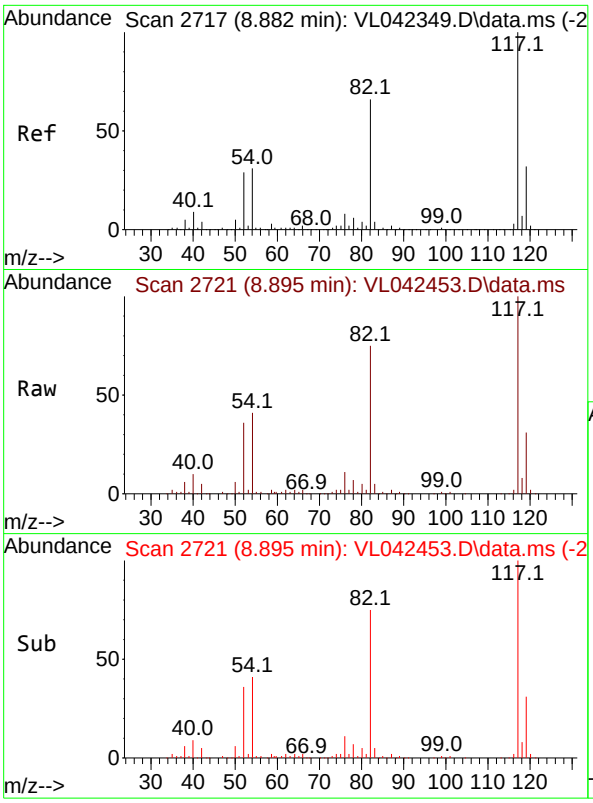



#53
Toluene
Concen: 1.429 ppbv
RT: 6.950 min Scan# 2120
Delta R.T. 0.017 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

Tgt Ion: 91 Resp: 56027

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 58.2 | 48.2 | 72.4 |

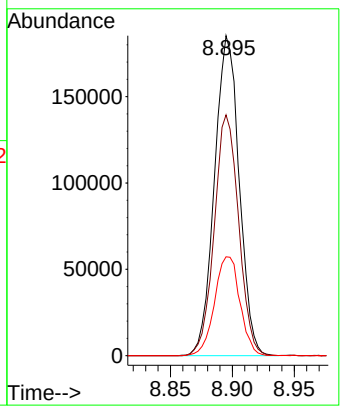





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.895 min Scan# 2
Delta R.T. 0.013 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

Tgt Ion:117 Resp: 25760

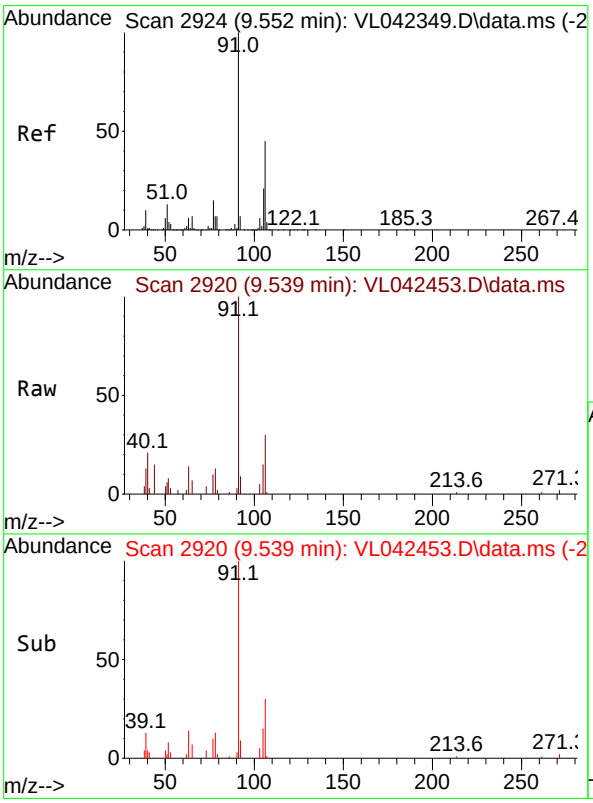
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 74.3 | 57.8 | 86.6 |
| 119 | 31.9 | 25.2 | 37.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025DL

**Manual Integrations**
**APPROVED**

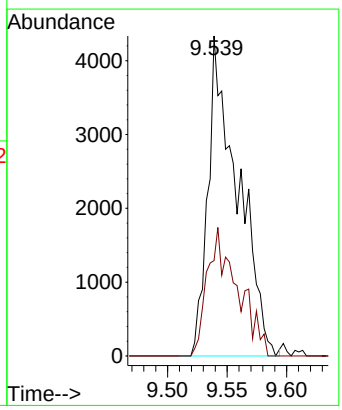
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

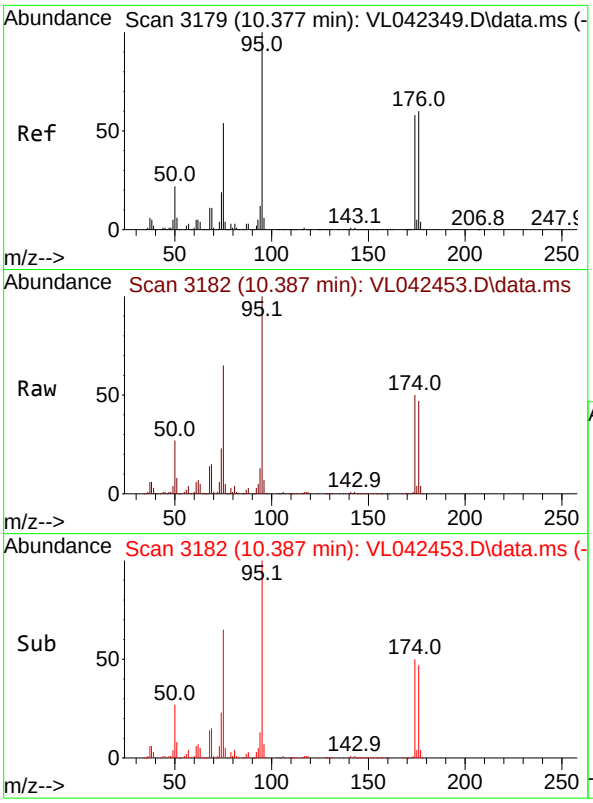



#59
m/p-Xylene
Concen: 0.182 ppbv m
RT: 9.539 min Scan# 2920
Delta R.T. -0.013 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

Tgt Ion: 91 Resp: 7499

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 0.0 | 35.4 | 53.2# |

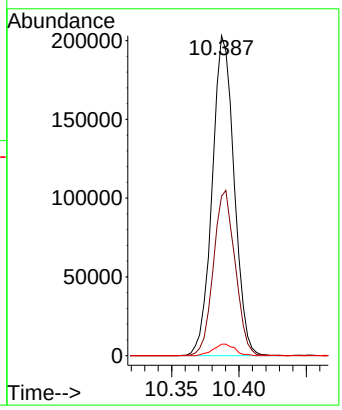





#68
1-Bromo-4-Fluorobenzene
Concen: 10.861 ppbv
RT: 10.387 min Scan# 3
Delta R.T. 0.010 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

Tgt Ion: 95 Resp: 22991

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 51.3 | 48.5 | 72.7 |
| 175 | 3.6 | 3.7 | 5.5# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025DL

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B2-4-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-22 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042425.D | 1 | | 04/28/25 14:34 | VL042825 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.50 | 2.47 | | 1.04 | 2.47 | ug/m3 |
| 64-17-5 | Ethanol | 250 | 471 | EQ | 0.60 | 0.94 | ug/m3 |
| 74-87-3 | Chloromethane | 0.60 | 1.24 | | 0.21 | 1.03 | ug/m3 |
| 75-01-4 | Vinyl Chloride | 0.010 | 0.030 | U | 0.030 | 0.080 | ug/m3 |
| 74-83-9 | Bromomethane | 0.14 | 0.54 | U | 0.54 | 1.94 | ug/m3 |
| 75-00-3 | Chloroethane | 0.17 | 0.45 | U | 0.45 | 1.32 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | 0.13 | 0.38 | U | 0.38 | 1.47 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | 0.23 | 1.29 | J | 0.90 | 2.81 | ug/m3 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.16 | 1.23 | U | 1.23 | 3.83 | ug/m3 |
| 76-14-2 | Dichlorotetrafluoroethane | 0.090 | 0.63 | U | 0.63 | 3.49 | ug/m3 |
| 593-60-2 | Bromoethene | 0.12 | 0.52 | U | 0.52 | 2.19 | ug/m3 |
| 75-65-0 | tert-Butyl alcohol | 0.30 | 0.91 | J | 0.58 | 1.52 | ug/m3 |
| 142-82-5 | Heptane | 0.66 | 2.70 | | 0.45 | 2.05 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | 28.3 | 69.6 | E | 0.17 | 1.23 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethene | 0.14 | 0.56 | U | 0.56 | 1.98 | ug/m3 |
| 67-64-1 | Acetone | 13.8 | 32.8 | | 0.57 | 1.19 | ug/m3 |
| 75-15-0 | Carbon Disulfide | 0.16 | 0.50 | U | 0.50 | 1.56 | ug/m3 |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.12 | 0.43 | U | 0.43 | 1.80 | ug/m3 |
| 75-09-2 | Methylene Chloride | 0.60 | 2.08 | | 0.66 | 1.74 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.19 | 0.75 | U | 0.75 | 1.98 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | 0.13 | 0.53 | U | 0.53 | 2.02 | ug/m3 |
| 110-82-7 | Cyclohexane | 0.26 | 0.89 | J | 0.76 | 1.72 | ug/m3 |
| 78-93-3 | 2-Butanone | 0.52 | 1.53 | | 0.35 | 1.47 | ug/m3 |
| 56-23-5 | Carbon Tetrachloride | 0.070 | 0.44 | | 0.060 | 0.19 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.090 | 0.36 | U | 0.36 | 1.98 | ug/m3 |
| 67-66-3 | Chloroform | 0.080 | 0.39 | U | 0.39 | 2.44 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.010 | 0.050 | U | 0.050 | 0.16 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | 1.20 | 5.60 | | 0.47 | 2.34 | ug/m3 |
| 71-43-2 | Benzene | 0.56 | 1.79 | | 0.29 | 1.60 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | 0.090 | 0.36 | U | 0.36 | 2.02 | ug/m3 |
| 79-01-6 | Trichloroethene | 0.020 | 0.11 | U | 0.11 | 0.16 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | 0.11 | 0.51 | U | 0.51 | 2.31 | ug/m3 |
| 75-27-4 | Bromodichloromethane | 0.080 | 0.54 | U | 0.54 | 3.35 | ug/m3 |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.090 | 0.37 | U | 0.37 | 2.05 | ug/m3 |
| 108-88-3 | Toluene | 4.70 | 17.7 | | 0.41 | 1.88 | ug/m3 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B2-4-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-22 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042425.D | 1 | | 04/28/25 14:34 | VL042825 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.060 | 0.27 | U | 0.27 | 2.27 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.060 | 0.27 | U | 0.27 | 2.27 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.070 | 0.38 | U | 0.38 | 2.73 | ug/m3 |
| 124-48-1 | Dibromochloromethane | 0.070 | 0.60 | U | 0.60 | 4.26 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane | 0.070 | 0.54 | U | 0.54 | 0.77 | ug/m3 |
| 127-18-4 | Tetrachloroethene | 0.020 | 0.14 | U | 0.14 | 0.20 | ug/m3 |
| 108-90-7 | Chlorobenzene | 0.080 | 0.37 | U | 0.37 | 2.30 | ug/m3 |
| 100-41-4 | Ethyl Benzene | 0.51 | 2.22 | | 0.52 | 2.17 | ug/m3 |
| 179601-23-1 | m/p-Xylene | 1.80 | 7.82 | | 0.91 | 4.34 | ug/m3 |
| 95-47-6 | o-Xylene | 0.69 | 3.00 | | 0.52 | 2.17 | ug/m3 |
| 100-42-5 | Styrene | 0.14 | 0.60 | J | 0.47 | 2.13 | ug/m3 |
| 75-25-2 | Bromoform | 0.060 | 0.62 | U | 0.62 | 5.17 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.010 | 0.070 | U | 0.070 | 0.21 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | 0.11 | 0.57 | U | 0.57 | 2.59 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.19 | 0.93 | J | 0.54 | 2.46 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.51 | 2.51 | | 0.39 | 2.46 | ug/m3 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.080 | 0.48 | U | 0.48 | 3.01 | ug/m3 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.050 | 0.30 | U | 0.30 | 3.01 | ug/m3 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.080 | 0.48 | U | 0.48 | 3.01 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.090 | 0.67 | U | 0.67 | 3.71 | ug/m3 |
| 87-68-3 | Hexachloro-1,3-Butadiene | 0.090 | 0.96 | U | 0.96 | 5.33 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | 0.13 | 0.29 | U | 0.29 | 1.11 | ug/m3 |
| 91-20-3 | Naphthalene | 0.080 | 0.42 | U | 0.42 | 0.52 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | 0.18 | 0.88 | J | 0.59 | 2.46 | ug/m3 |
| 110-54-3 | Hexane | 2.70 | 9.52 | | 0.39 | 1.76 | ug/m3 |
| 107-05-1 | Allyl Chloride | 0.15 | 0.47 | U | 0.47 | 1.57 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | 0.21 | 0.76 | U | 0.76 | 1.80 | ug/m3 |
| 80-62-6 | Methyl Methacrylate | 0.090 | 0.37 | U | 0.37 | 2.05 | ug/m3 |
| **SURROGATES** | | | | | | | |
| 460-00-4 | 1-Bromo-4-Fluorobenzene | 10.4 | | | 70 (65) - 130 (135) | 104% | SPK: 10 |
| **INTERNAL STANDARDS** | | | | | | | |
| 74-97-5 | Bromochloromethane | 133000 | | 2.784 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 382000 | | 3.955 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 331000 | | 8.878 | | | |
| **TENTITIVE IDENTIFIED COMPOUNDS** | | | | | | | |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 03/25/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 03/26/25 |
| Client Sample ID: | IA-B2-4-3242025 | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-22 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042425.D | 1 | | 04/28/25 14:34 | VL042825 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 75-45-6 | Chlorodifluoromethane | 0.28 | | J | | 1.48 | ppbv |
| 115-07-1 | Propene | 1.20 | | J | | 1.49 | ppbv |
| 000106-97-8 | Butane | 2.00 | | J | | 1.62 | ppbv |
| 000109-66-0 | Pentane | 1.50 | | J | | 1.96 | ppbv |
| 000107-83-5 | Pentane, 2-methyl- | 1.70 | | J | | 2.47 | ppbv |
| 000096-14-0 | Pentane, 3-methyl- | 1.20 | | J | | 2.62 | ppbv |
| 000096-37-7 | Cyclopentane, methyl- | 1.10 | | J | | 3.23 | ppbv |
| | unknown4.263 | 1.20 | | J | | 4.26 | ppbv |
| 000066-25-1 | Hexanal | 1.10 | | J | | 7.69 | ppbv |
| 000080-56-8 | .alpha.-Pinene | 1.40 | | J | | 10.9 | ppbv |
| 103-65-1 | n-propylbenzene | 0.12 | | J | | 11.0 | ppbv |

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Quantitation Report (LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042425.D
Acq On : 28 Apr 2025 14:34
Operator : SY/MD
Sample : Q1665-22
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 29 01:37:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-4-3242025

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) Bromochloromethane | 2.784 | 49 | 133015 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.955 | 114 | 381932 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.878 | 117 | 330693 | 10.000 | ppbv | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.374 | 95 | 282648 | 10.401 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 104.000% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.499 | 85 | 11713 | 0.498 | ppbv | # | 86 |
| 3) Chlorodifluoromethane | 1.476 | 51 | 6357m | 0.284 | ppbv | | |
| 4) Chloromethane | 1.531 | 50 | 5550 | 0.597 | ppbv | | 99 |
| 9) Propene | 1.486 | 41 | 12230 | 1.200 | ppbv | | 85 |
| 10) Heptane | 4.985 | 43 | 18959m | 0.662 | ppbv | | |
| 11) Trichlorofluoromethane | 1.877 | 101 | 5207 | 0.233 | ppbv | | 98 |
| 13) Ethanol | 1.719 | 45 | 406613 | 251.014 | ppbv | | 76 |
| 15) Acetone | 1.835 | 43 | 301557m | 13.849 | ppbv | | |
| 17) tert-Butyl alcohol | 2.043 | 59 | 8174m | 0.303 | ppbv | | |
| 19) Isopropyl Alcohol | 1.884 | 45 | 341849 | 28.261 | ppbv | # | 34 |
| 20) Methylene Chloride | 2.059 | 84 | 5072 | 0.595 | ppbv | | 87 |
| 26) Hexane | 2.823 | 57 | 57941 | 2.667 | ppbv | # | 36 |
| 30) Cyclohexane | 3.849 | 84 | 4624m | 0.263 | ppbv | | |
| 34) 2-Butanone | 2.560 | 43 | 15646 | 0.518 | ppbv | | 97 |
| 35) Carbon Tetrachloride | 3.758 | 117 | 2406m | 0.070 | ppbv | | |
| 36) Benzene | 3.654 | 78 | 23147 | 0.562 | ppbv | | 95 |
| 44) 2,2,4-Trimethylpentane | 4.638 | 57 | 84397 | 1.186 | ppbv | # | 91 |
| 53) Toluene | 6.933 | 91 | 232100 | 4.695 | ppbv | | 99 |
| 58) Ethyl Benzene | 9.354 | 91 | 33267 | 0.508 | ppbv | | 98 |
| 59) m/p-Xylene | 9.529 | 91 | 92347 | 1.750 | ppbv | | 100 |
| 60) o-Xylene | 9.959 | 91 | 36544 | 0.688 | ppbv | | 97 |
| 61) Styrene | 9.869 | 104 | 3587 | 0.141 | ppbv | | 91 |
| 64) n-propylbenzene | 10.985 | 120 | 2357 | 0.120 | ppbv | | 86 |
| 72) 4-Ethyltoluene | 11.118 | 105 | 11801 | 0.182 | ppbv | # | 56 |
| 73) 1,3,5-Trimethylbenzene | 11.202 | 105 | 10642 | 0.186 | ppbv | | 88 |
| 74) 1,2,4-Trimethylbenzene | 11.536 | 105 | 34307 | 0.512 | ppbv | # | 67 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (LSC Reviewed)

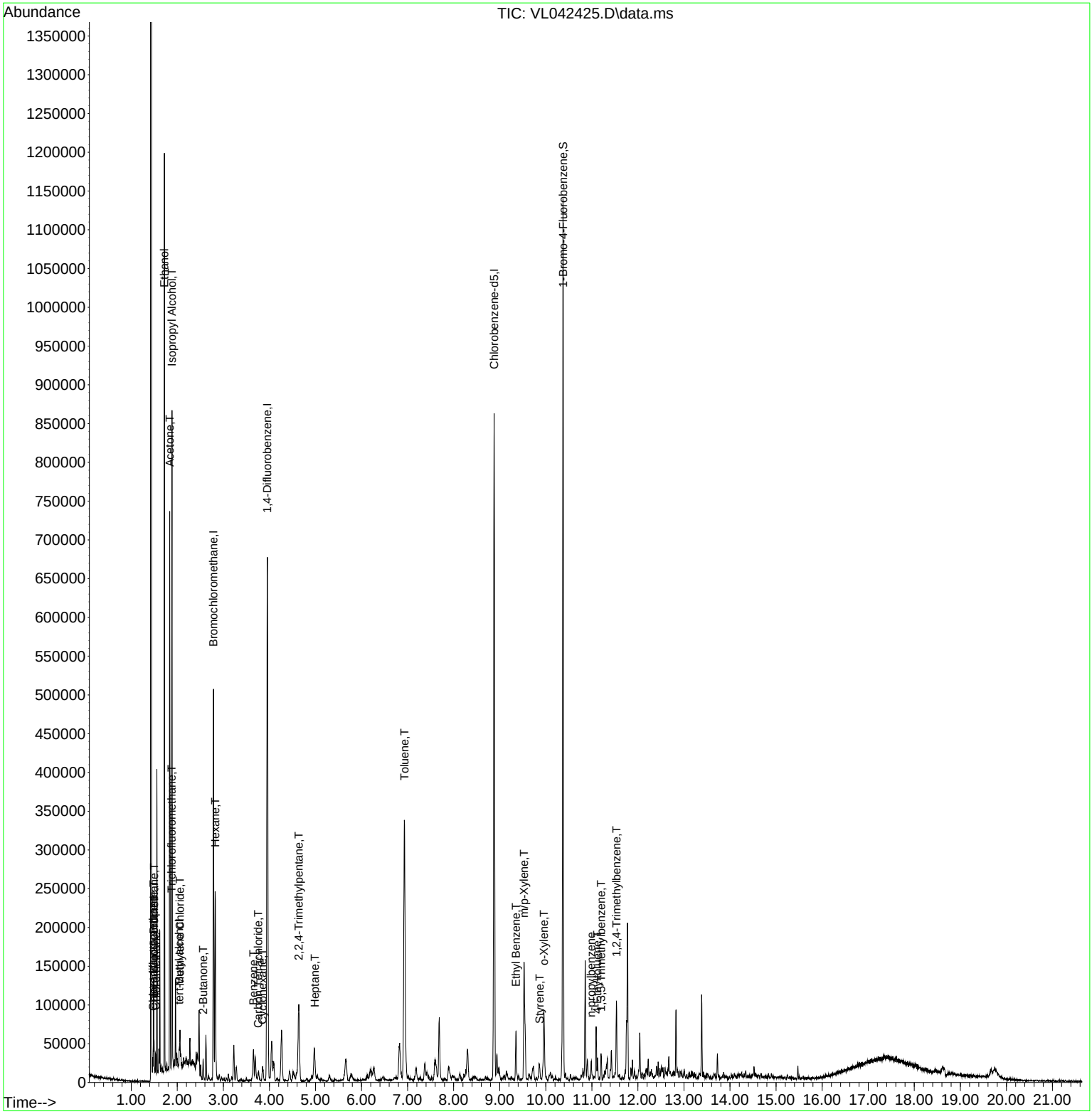
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042425.D
Acq On : 28 Apr 2025 14:34
Operator : SY/MD
Sample : Q1665-22
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

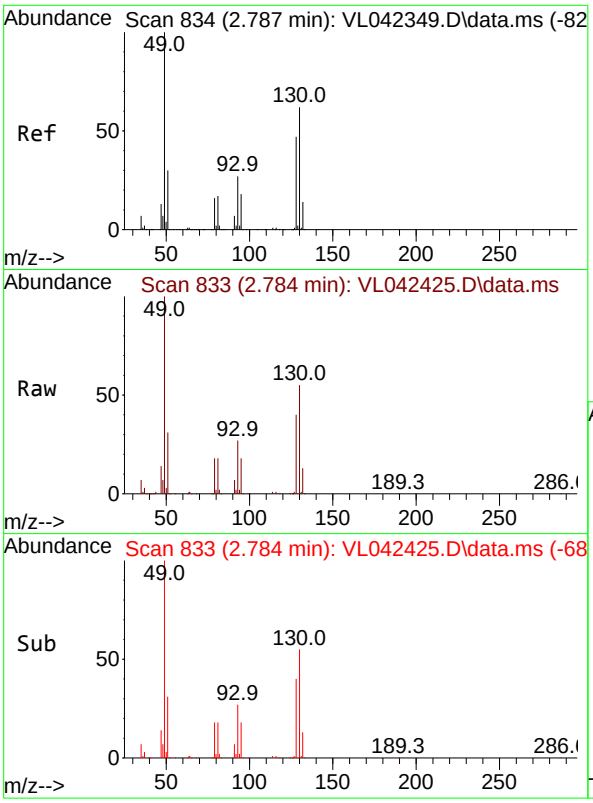
Quant Time: Apr 29 01:37:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-4-3242025

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

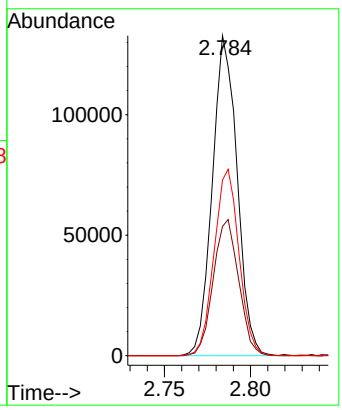





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Tgt Ion: 49 Resp: 13301

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 43.7 | 22.8 | 68.4 |
| 130 | 58.6 | 29.3 | 88.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-4-3242025

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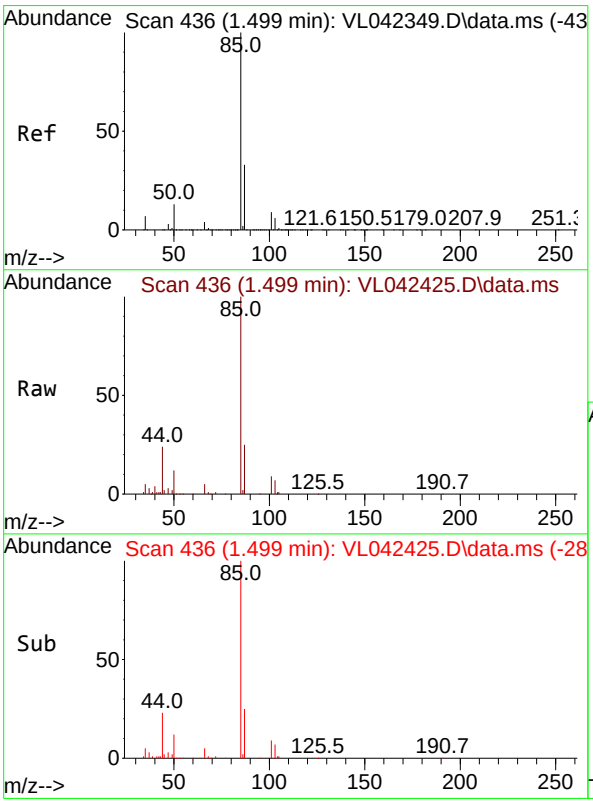
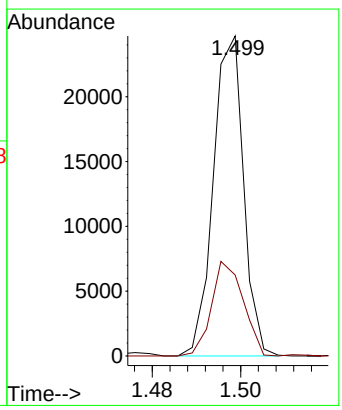
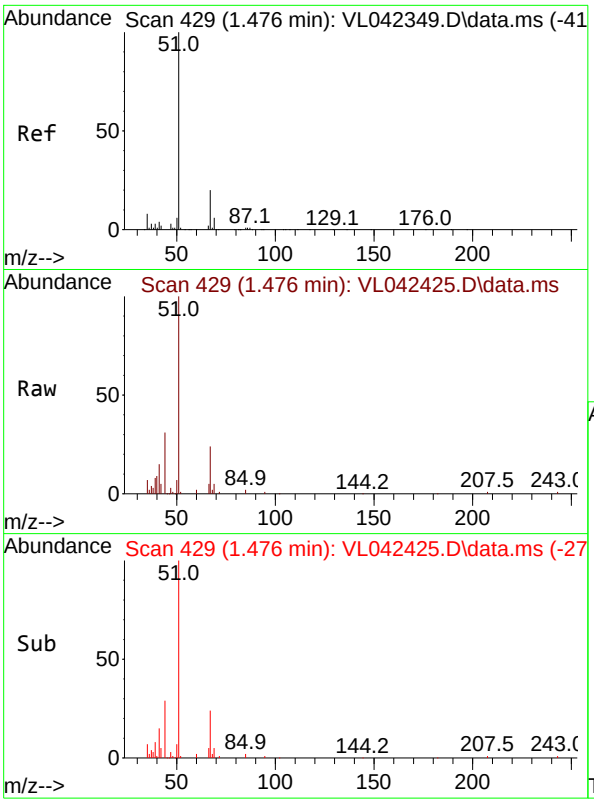



#2
Dichlorodifluoromethane
Concen: 0.498 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Tgt Ion: 85 Resp: 11713

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 25.3 | 26.6 | 39.8# |

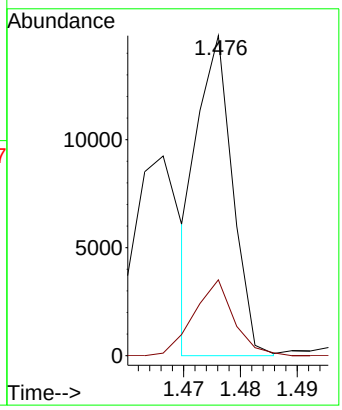





#3
Chlorodifluoromethane
Concen: 0.284 ppbv m
RT: 1.476 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Tgt Ion: 51 Resp: 635

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 27.2 | 16.2 | 24.4 |

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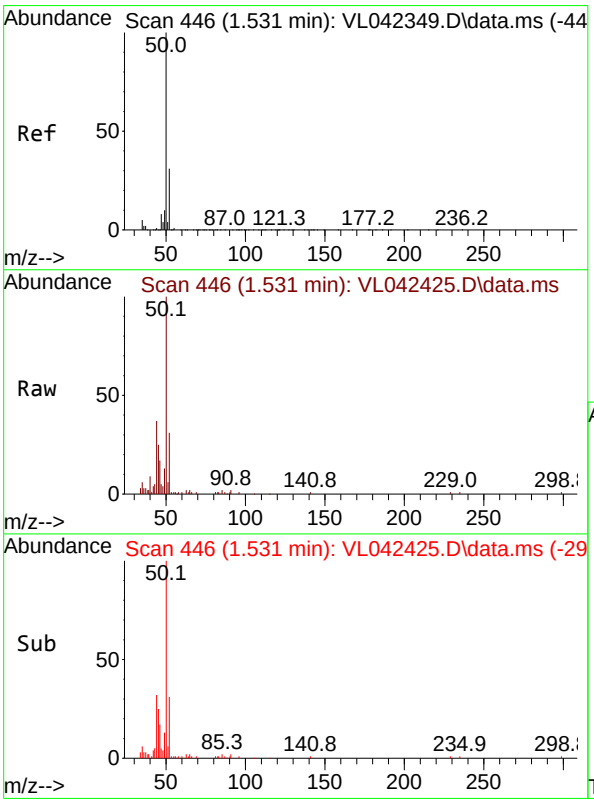
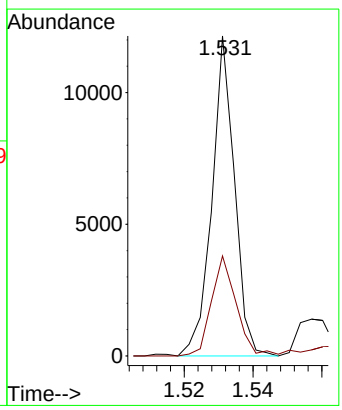
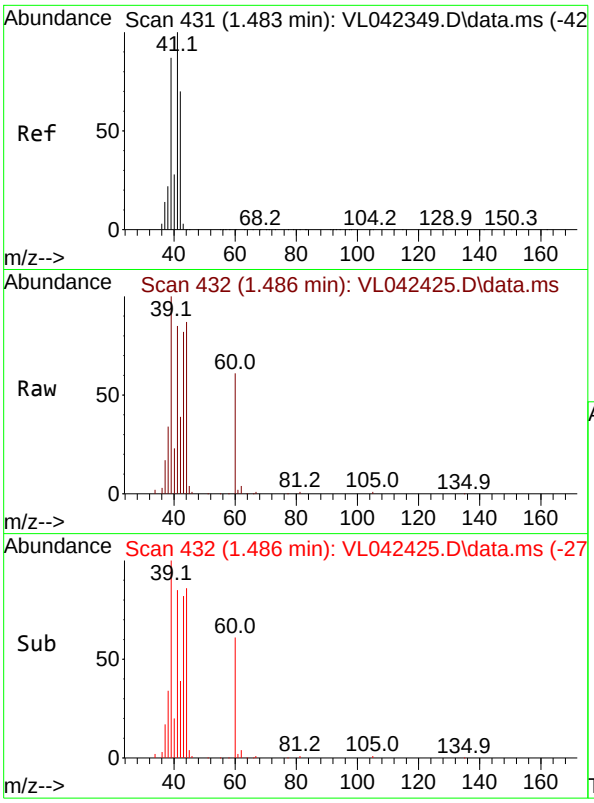



#4
Chloromethane
Concen: 0.597 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Tgt Ion: 50 Resp: 5550

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 31.2 | 24.7 | 37.1 |

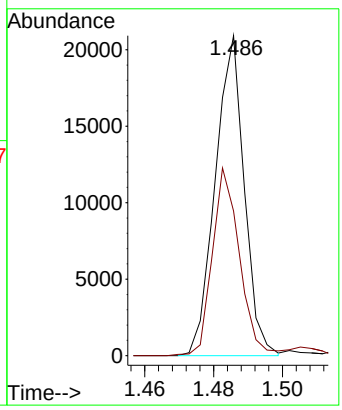





#9
Propene
Concen: 1.200 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Tgt Ion: 41 Resp: 1223

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 57.6 | 56.2 | 84.4 |

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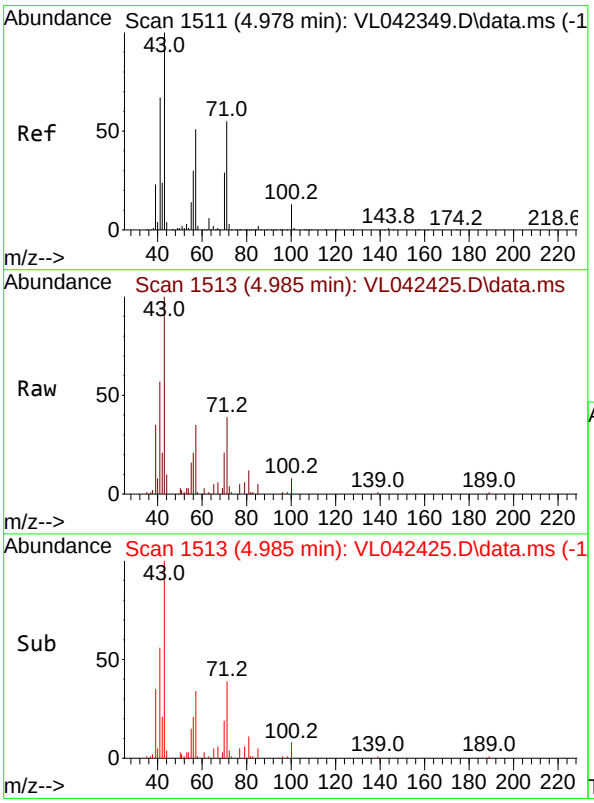
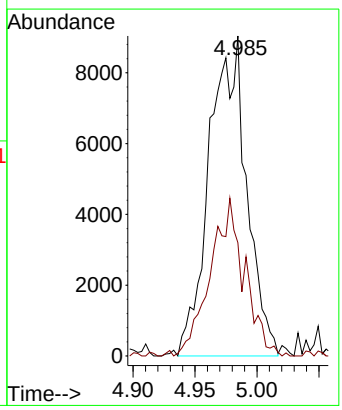
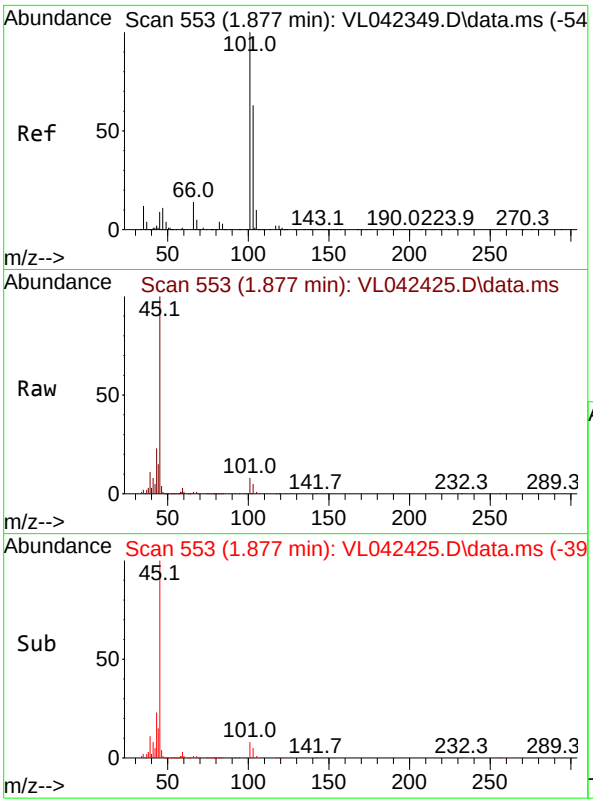



#10
Heptane
Concen: 0.662 ppbv m
RT: 4.985 min Scan# 1513
Delta R.T. 0.006 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Tgt Ion: 43 Resp: 18959

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 45.2 | 39.9 | 59.9 |






#11
Trichlorofluoromethane
Concen: 0.233 ppbv
RT: 1.877 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Tgt Ion:101 Resp: 520

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.2 | 50.1 | 75.1 |

**Instrument :**
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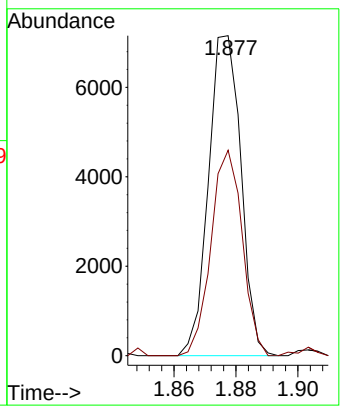
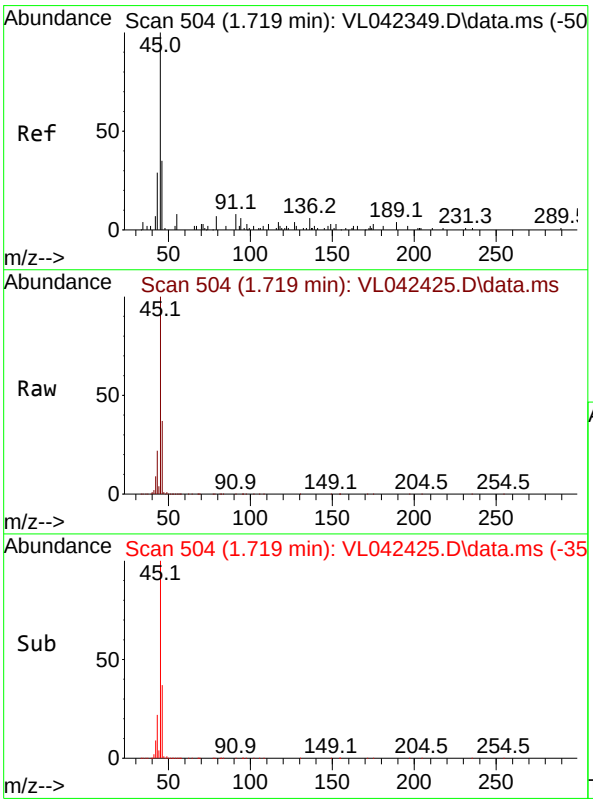
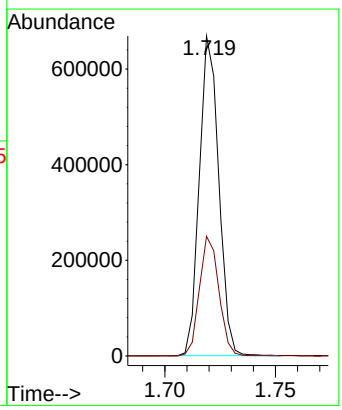


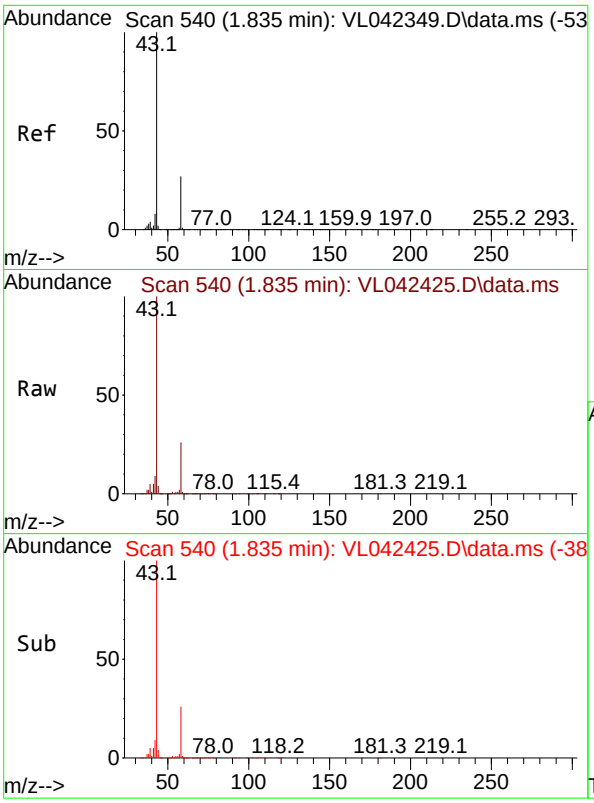




#13
Ethanol
Concen: 251.014 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Tgt Ion: 45 Resp: 406613

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 37.8 | 21.9 | 87.7 |

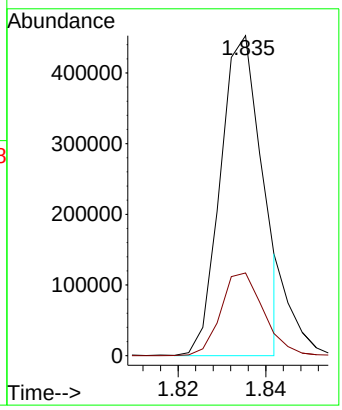





#15
Acetone
Concen: 13.849 ppbv m
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Tgt Ion: 43 Resp: 30155

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 26.6 | 22.4 | 33.6 |

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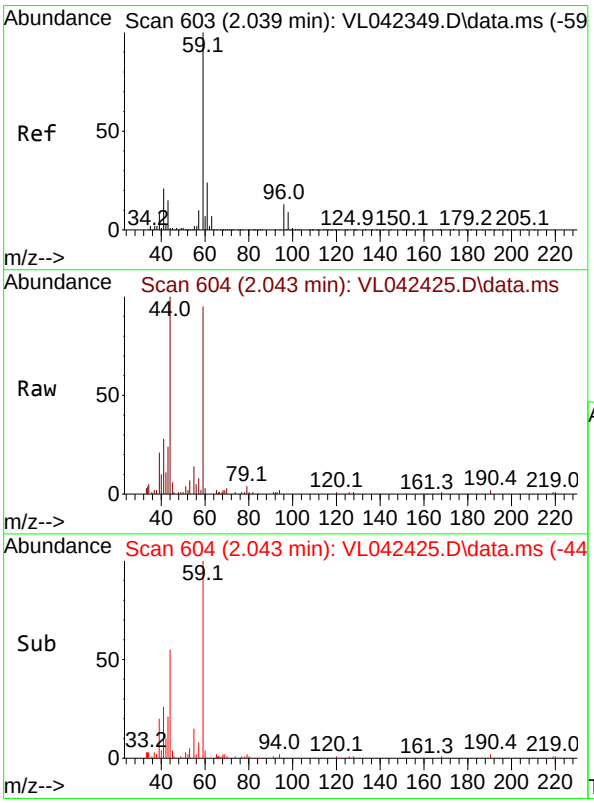
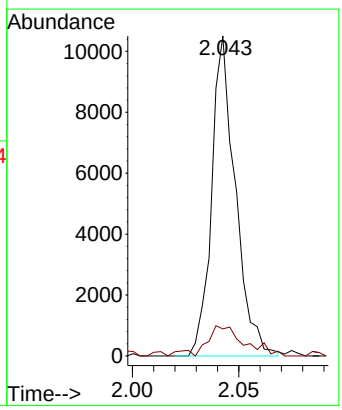
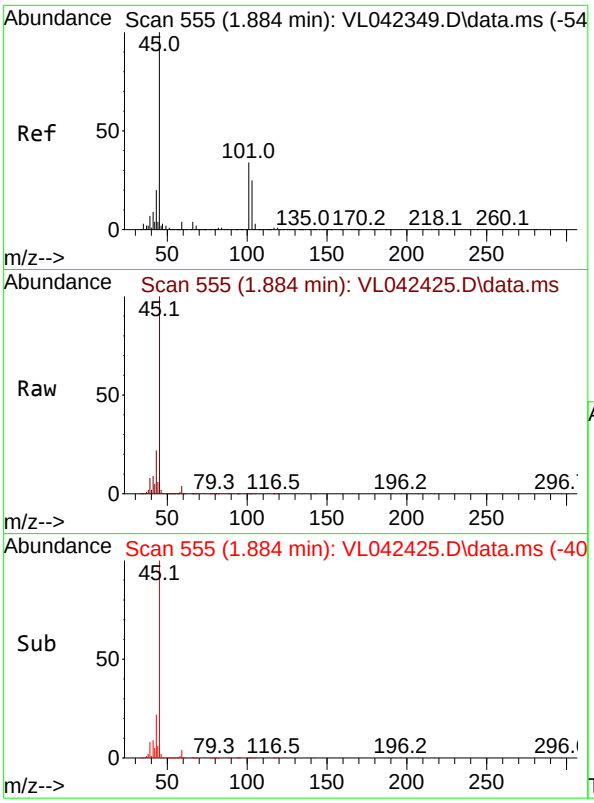



#17
tert-Butyl alcohol
Concen: 0.303 ppbv m
RT: 2.043 min Scan# 604
Delta R.T. 0.003 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Tgt Ion: 59 Resp: 8174

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 16.8 | 8.7 | 13.1# |






#19
Isopropyl Alcohol
Concen: 28.261 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Tgt Ion: 45 Resp: 34184

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 1.1 | 34.5 | 51.7 |

**Instrument :**
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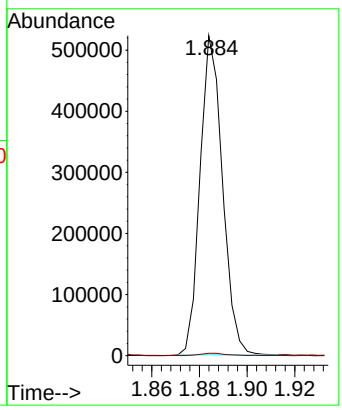
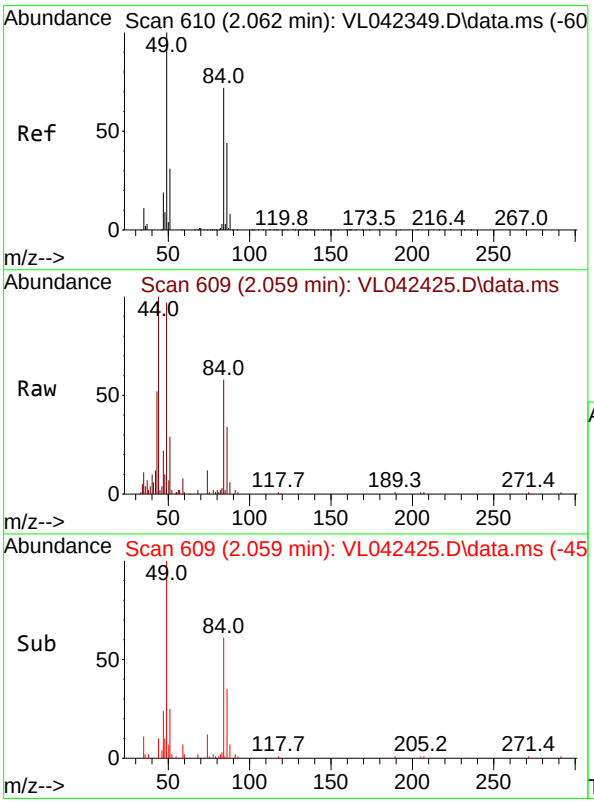
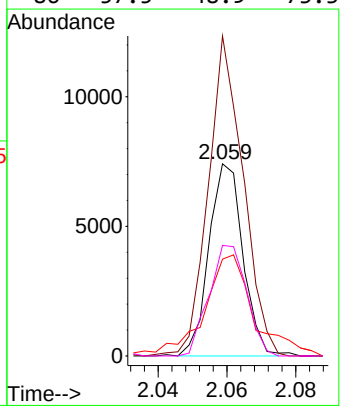


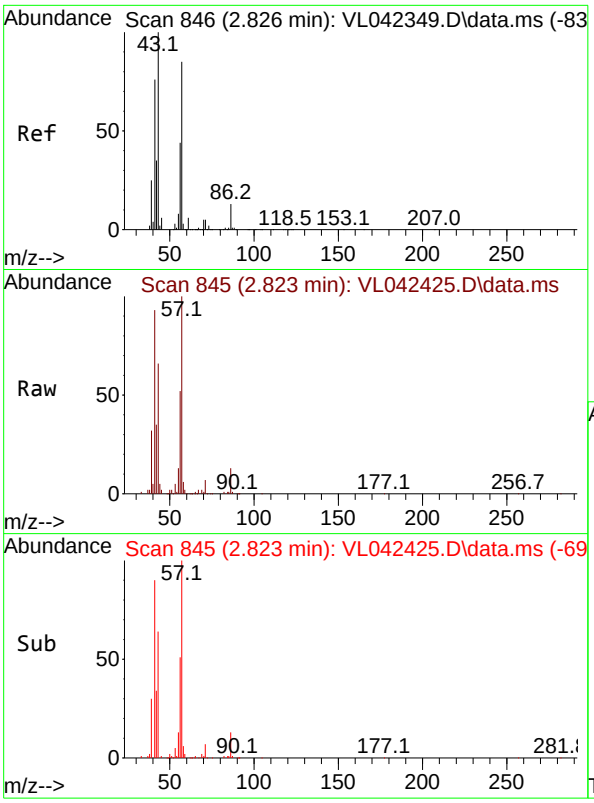




#20
Methylene Chloride
Concen: 0.595 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Tgt Ion: 84 Resp: 5072

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 165.2 | 111.6 | 167.4 |
| 51 | 44.3 | 35.1 | 52.7 |
| 86 | 57.5 | 48.9 | 73.3 |

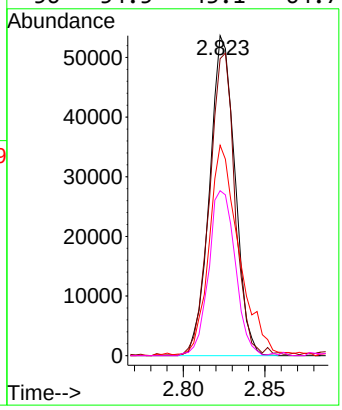





#26
Hexane
Concen: 2.667 ppbv
RT: 2.823 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Tgt Ion: 57 Resp: 5794

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 96.5 | 77.9 | 116.9 |
| 43 | 79.5 | 208.4 | 312.6# |
| 56 | 54.5 | 43.1 | 64.7 |

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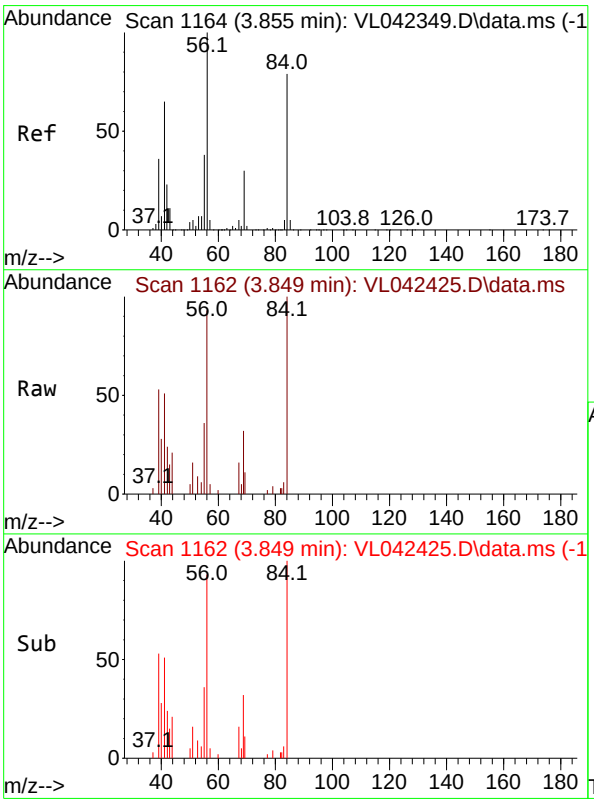
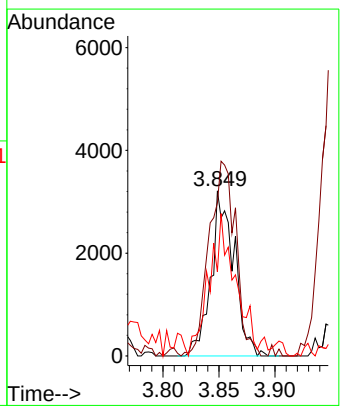
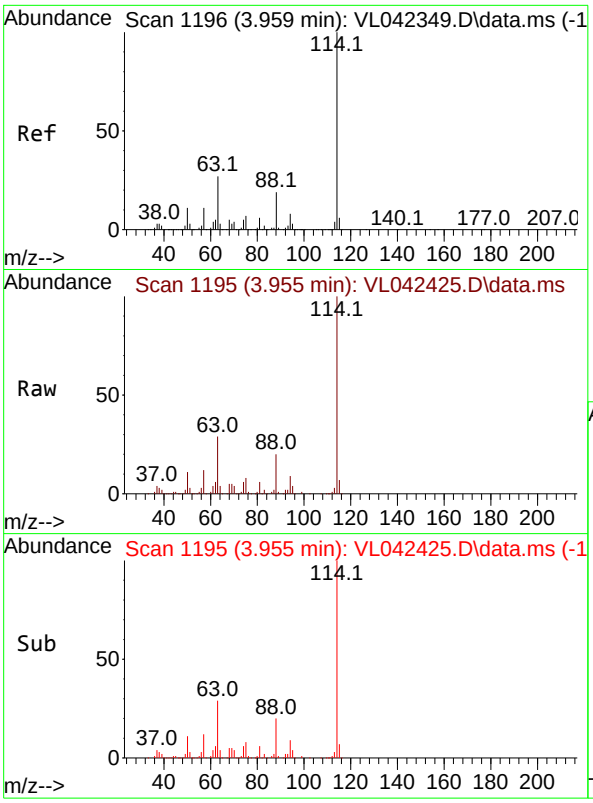



#30
Cyclohexane
Concen: 0.263 ppbv m
RT: 3.849 min Scan# 1162
Delta R.T. -0.006 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Tgt Ion: 84 Resp: 4624

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 0.0 | 101.0 | 151.4# |
| 41 | 0.0 | 67.4 | 101.0# |

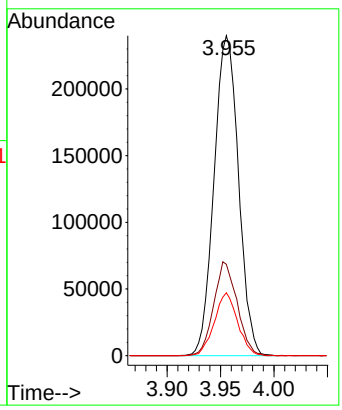





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Tgt Ion:114 Resp: 38193

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 28.1 | 21.8 | 32.6 |
| 88 | 18.8 | 15.5 | 23.3 |

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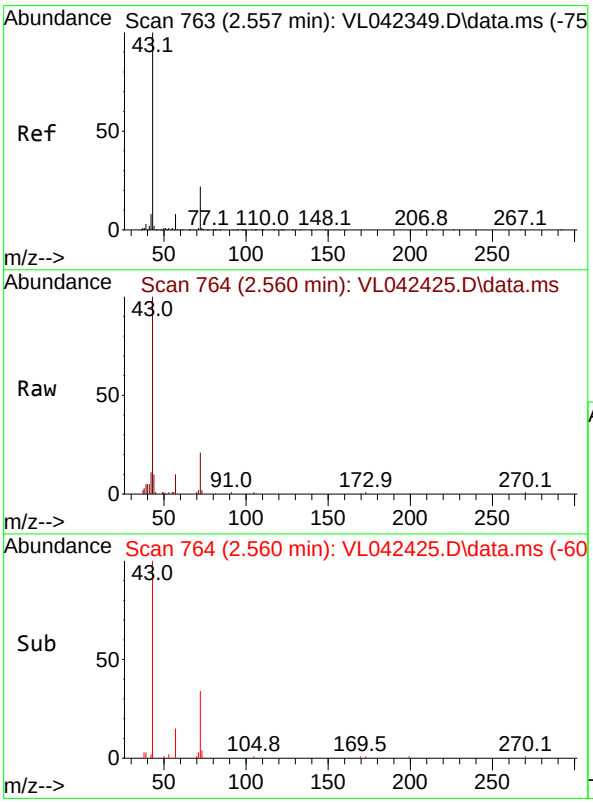
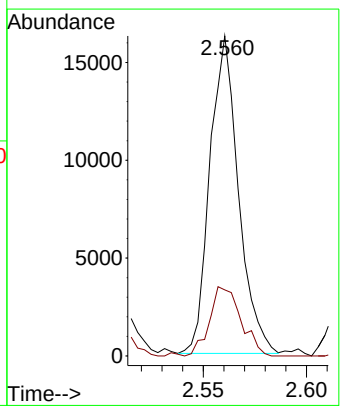
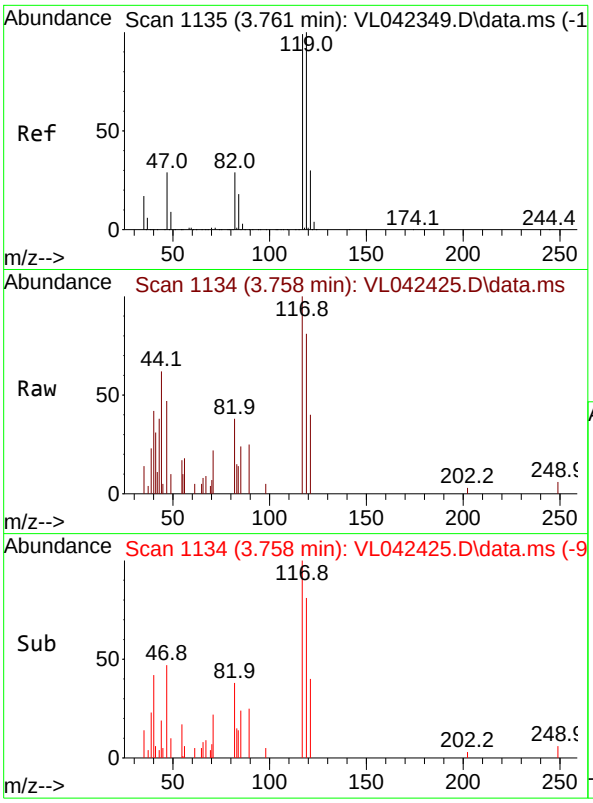



#34
2-Butanone
Concen: 0.518 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Tgt Ion: 43 Resp: 15646

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 23.9 | 18.2 | 27.2 |

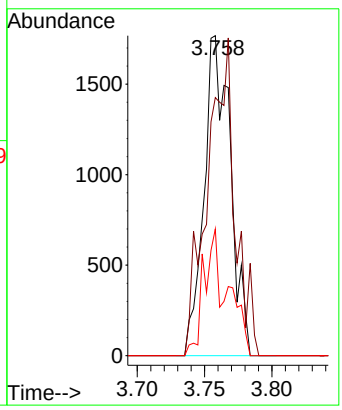





#35
Carbon Tetrachloride
Concen: 0.070 ppbv m
RT: 3.758 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Tgt Ion:117 Resp: 240

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 80.7 | 80.5 | 120.7 |
| 121 | 39.6 | 24.2 | 36.2# |

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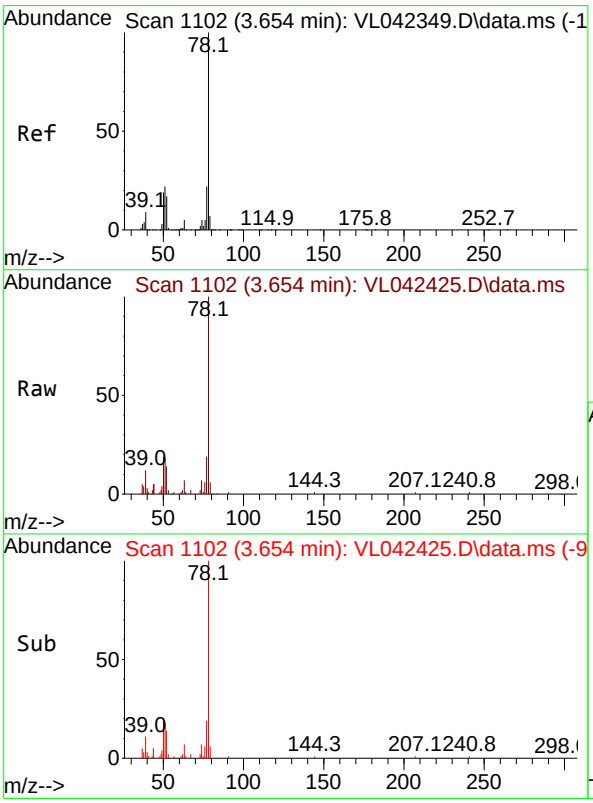
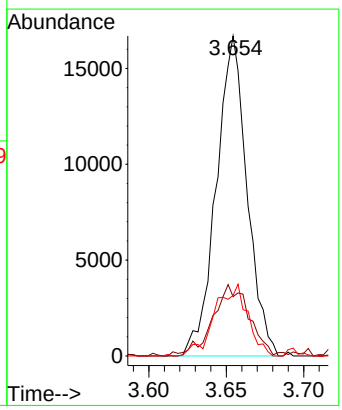
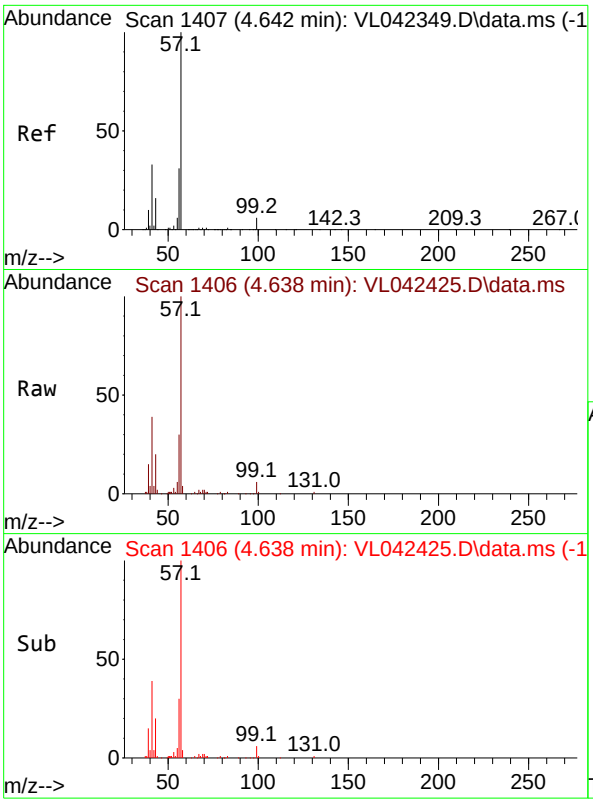



#36
Benzene
Concen: 0.562 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. -0.000 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Tgt Ion: 78 Resp: 23147

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 17.7 | 17.4 | 26.0 |
| 50 | 18.9 | 15.5 | 23.3 |

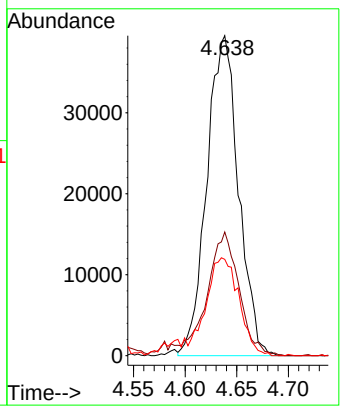





#44
2,2,4-Trimethylpentane
Concen: 1.186 ppbv
RT: 4.638 min Scan# 14
Delta R.T. -0.003 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Tgt Ion: 57 Resp: 8439

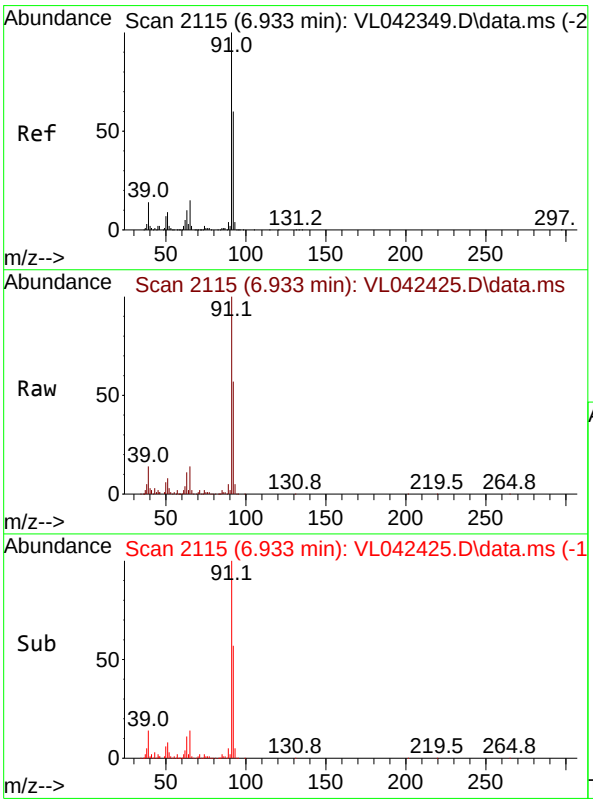
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 40.9 | 27.2 | 40.8 |
| 56 | 35.2 | 25.7 | 38.5 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-4-3242025

**Manual Integrations**
**APPROVED**

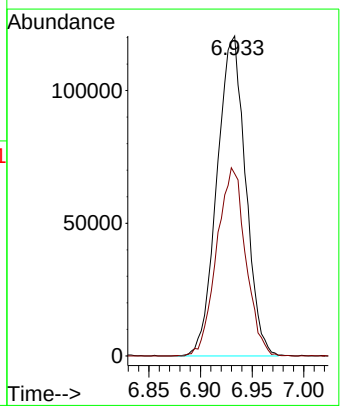
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

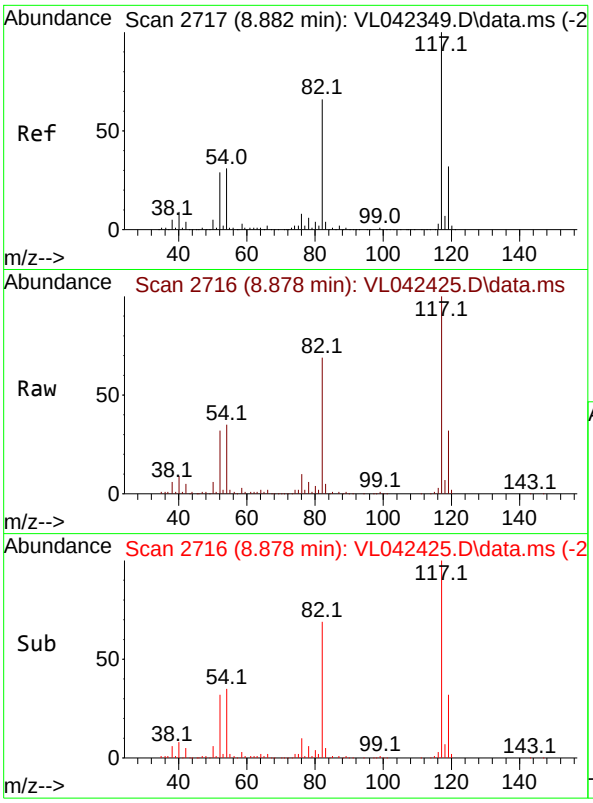



#53
Toluene
Concen: 4.695 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. -0.000 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Tgt Ion: 91 Resp: 232100

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 59.8 | 48.2 | 72.4 |

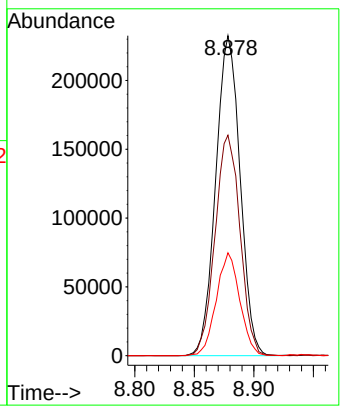





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Tgt Ion:117 Resp: 33069

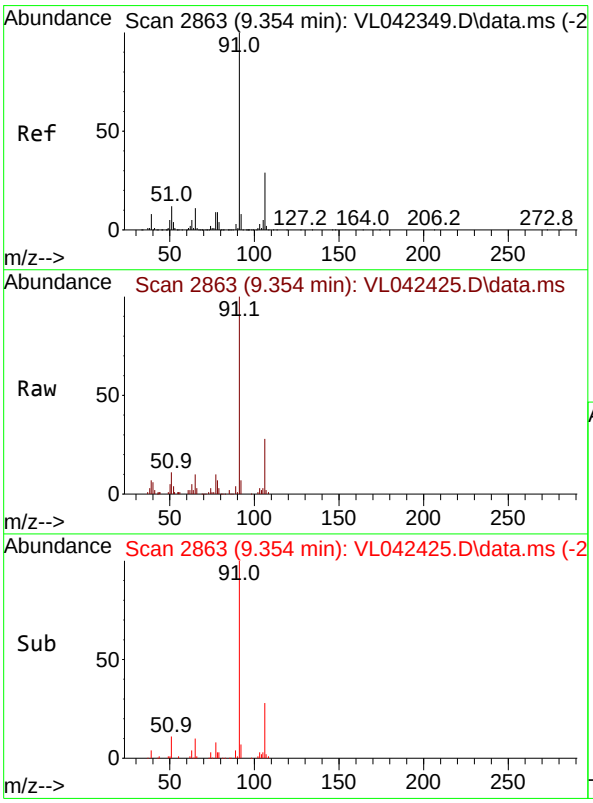
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 70.5 | 57.8 | 86.6 |
| 119 | 31.0 | 25.2 | 37.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-4-3242025

**Manual Integrations**
**APPROVED**

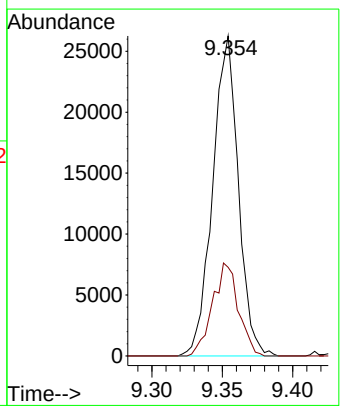
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

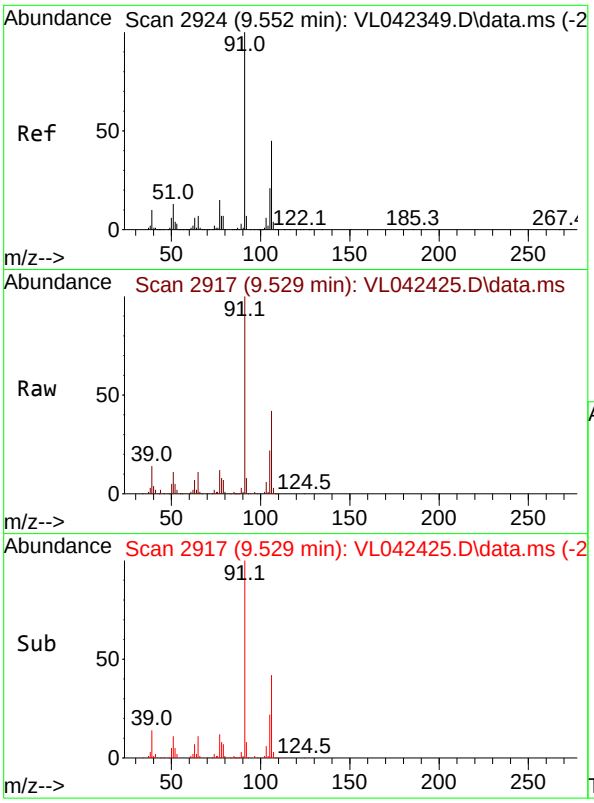



#58
Ethyl Benzene
Concen: 0.508 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. -0.000 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Tgt Ion: 91 Resp: 33267

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 27.7 | 23.0 | 34.4 |






#59
m/p-Xylene
Concen: 1.750 ppbv
RT: 9.529 min Scan# 2
Delta R.T. -0.023 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

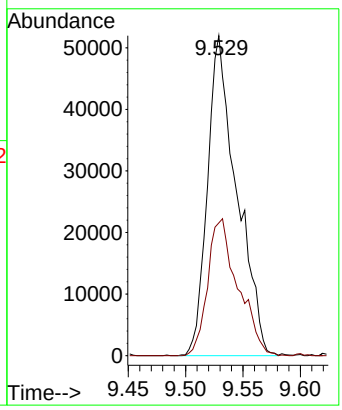
Tgt Ion: 91 Resp: 9234

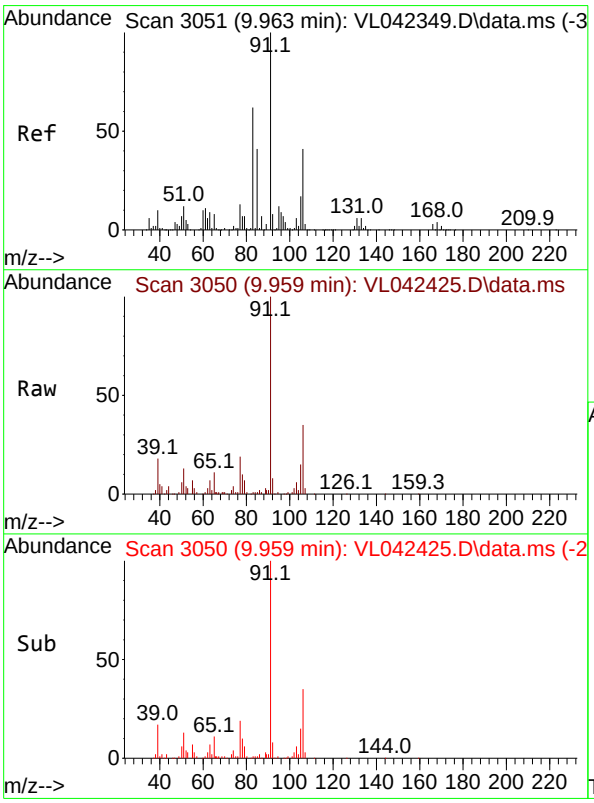
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 44.3 | 35.4 | 53.2 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-4-3242025

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

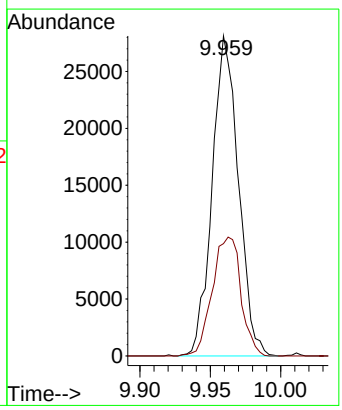


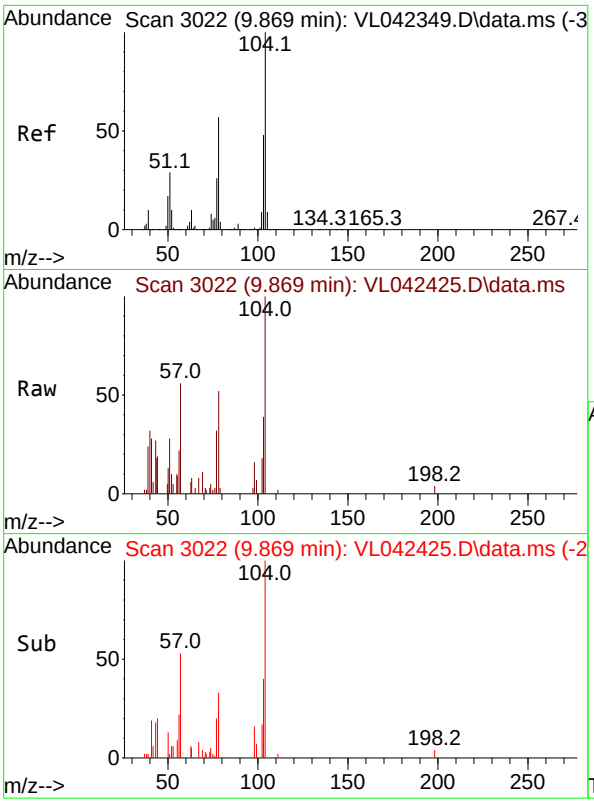




#60
o-Xylene
Concen: 0.688 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.003 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Tgt Ion: 91 Resp: 36544

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 40.5 | 21.1 | 63.4 |






#61
Styrene
Concen: 0.141 ppbv
RT: 9.869 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

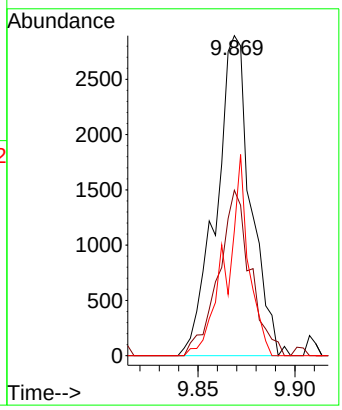
Tgt Ion:104 Resp: 358

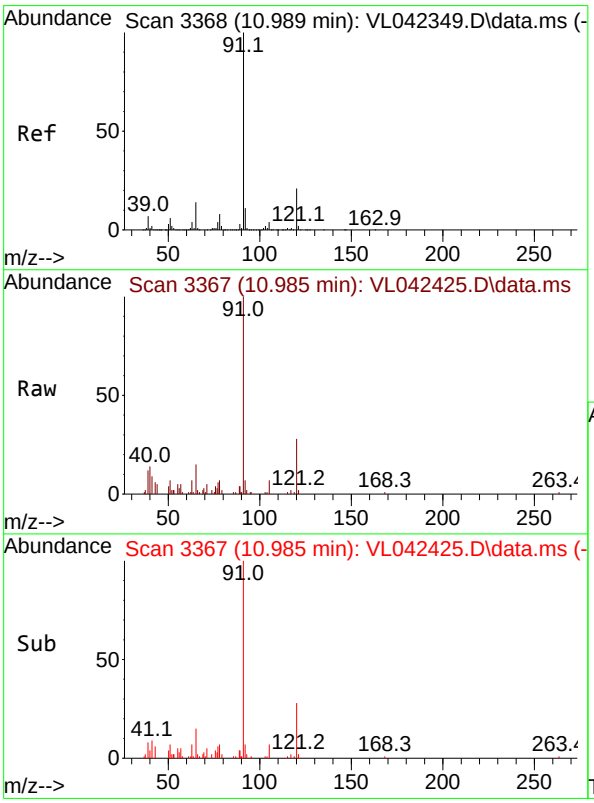
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 48.8 | 44.6 | 66.8 |
| 103 | 41.0 | 37.4 | 56.0 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-4-3242025

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

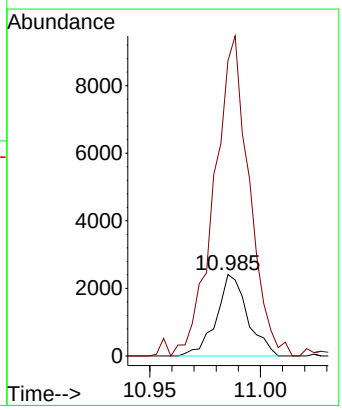


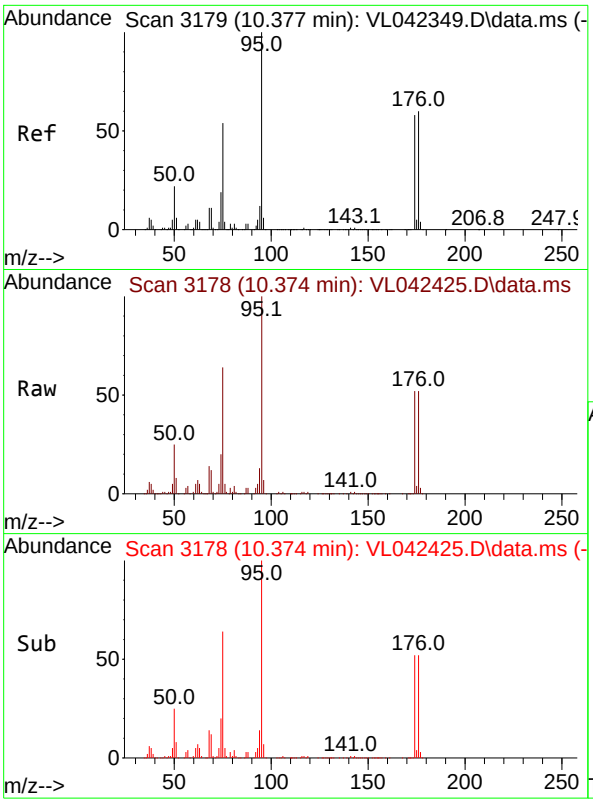




#64
n-propylbenzene
Concen: 0.120 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.003 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Tgt Ion:120 Resp: 2357

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 452.8 | 392.4 | 588.6 |

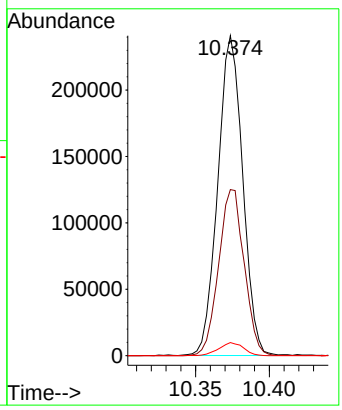





#68
1-Bromo-4-Fluorobenzene
Concen: 10.401 ppbv
RT: 10.374 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Tgt Ion: 95 Resp: 28264

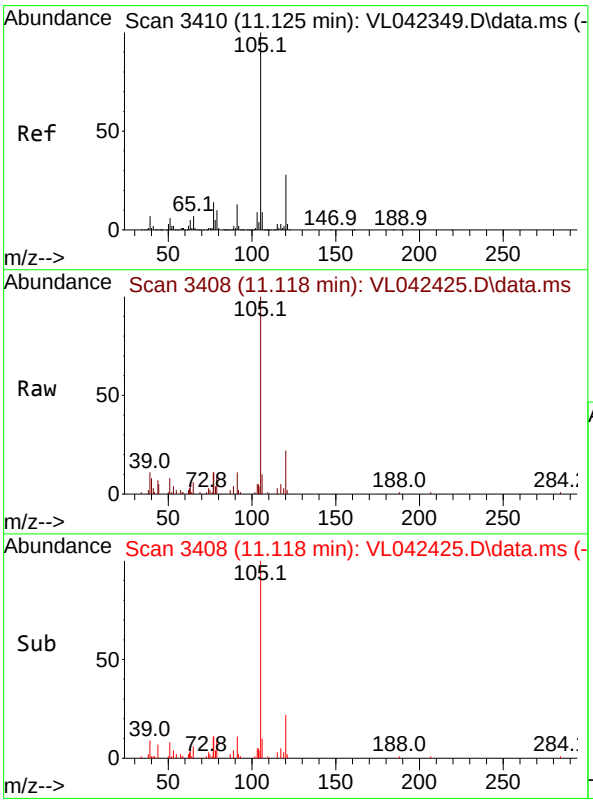
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 53.4 | 48.5 | 72.7 |
| 175 | 4.1 | 3.7 | 5.5 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-4-3242025

**Manual Integrations**
**APPROVED**

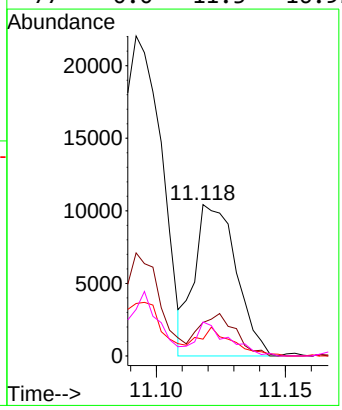
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

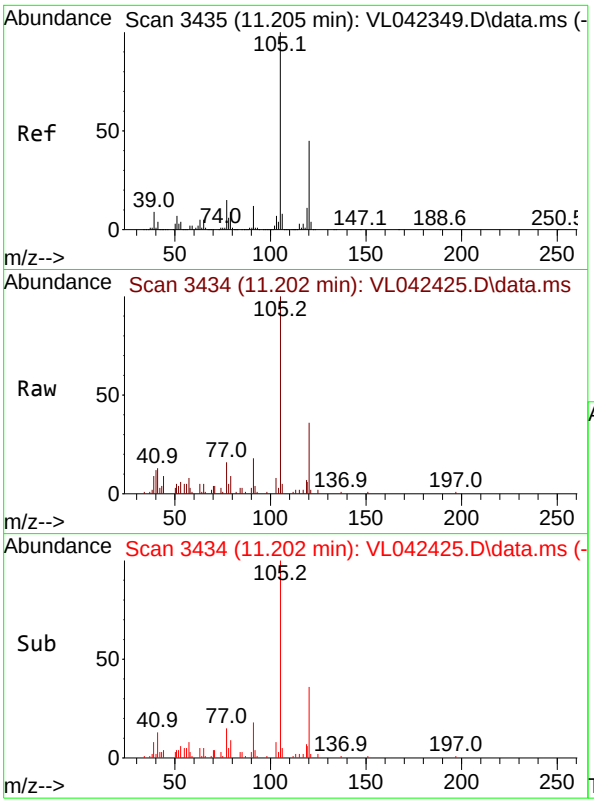



#72
4-Ethyltoluene
Concen: 0.182 ppbv
RT: 11.118 min Scan# 3408
Delta R.T. -0.007 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Tgt Ion:105 Resp: 11801

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 0.0 | 23.2 | 34.8# |
| 91 | 0.0 | 10.4 | 15.6# |
| 77 | 0.0 | 11.3 | 16.9# |






#73
1,3,5-Trimethylbenzene
Concen: 0.186 ppbv
RT: 11.202 min Scan# 34
Delta R.T. -0.003 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

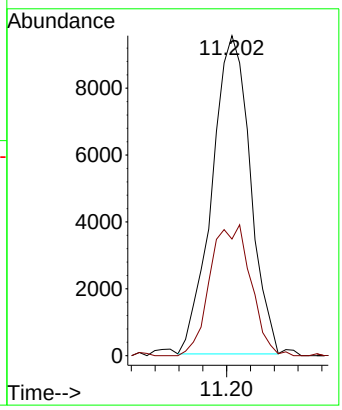
Tgt Ion:105 Resp: 1064

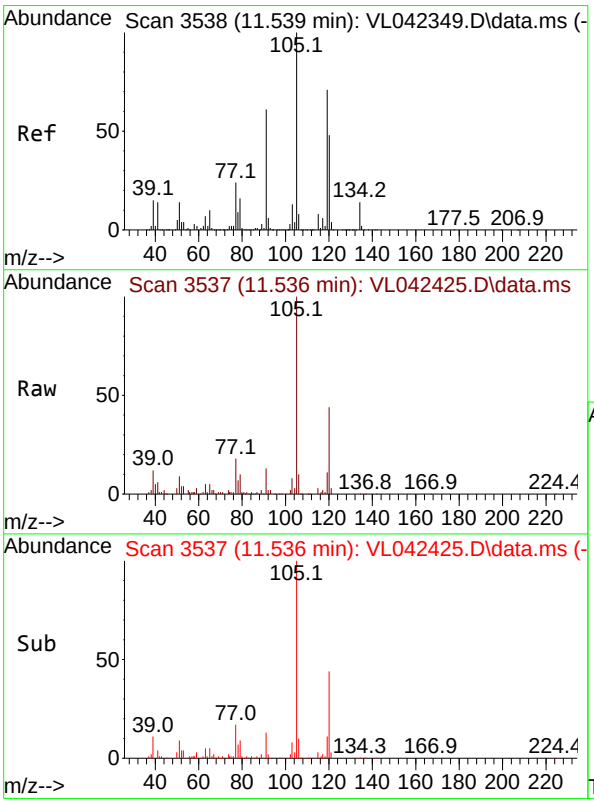
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 36.6 | 35.6 | 53.4 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-4-3242025

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

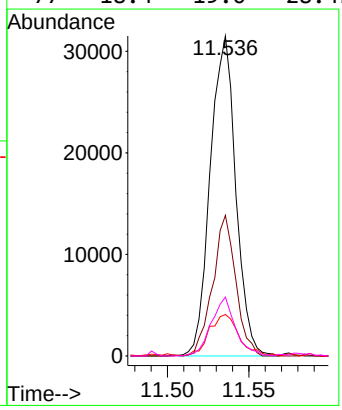



#74
1,2,4-Trimethylbenzene
Concen: 0.512 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.003 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Tgt Ion:105 Resp: 34307

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.0 | 38.1 | 57.1 |
| 91 | 13.0 | 48.8 | 73.2# |
| 77 | 18.4 | 19.0 | 28.4# |



LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042425.D
Acq On : 28 Apr 2025 14:34
Operator : SY/MD
Sample : Q1665-22
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-4-3242025

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

Signal : TIC: VL042425.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.431 | 410 | 415 | 420 | rBV | 4482212 | 5135429 | 100.00% | 33.531% |
| 2 | 1.486 | 427 | 432 | 434 | rBV3 | 114243 | 65451 | 1.27% | 0.427% |
| 3 | 1.557 | 450 | 454 | 459 | rBV | 392491 | 212777 | 4.14% | 1.389% |
| 4 | 1.619 | 470 | 473 | 478 | rVB | 183387 | 106932 | 2.08% | 0.698% |
| 5 | 1.719 | 500 | 504 | 510 | rBV | 1184701 | 722250 | 14.06% | 4.716% |
| 6 | 1.835 | 535 | 540 | 549 | rBV2 | 720522 | 622291 | 12.12% | 4.063% |
| 7 | 1.884 | 549 | 555 | 568 | rVV | 849343 | 577036 | 11.24% | 3.768% |
| 8 | 1.962 | 574 | 579 | 584 | rBV2 | 111978 | 76967 | 1.50% | 0.503% |
| 9 | 2.470 | 731 | 736 | 743 | rVB | 85106 | 89097 | 1.73% | 0.582% |
| 10 | 2.622 | 777 | 783 | 793 | rVB3 | 58541 | 61796 | 1.20% | 0.403% |
| 11 | 2.787 | 825 | 834 | 840 | rBV | 503882 | 529937 | 10.32% | 3.460% |
| 12 | 2.823 | 840 | 845 | 858 | rVB2 | 241748 | 277679 | 5.41% | 1.813% |
| 13 | 3.227 | 962 | 970 | 978 | rVB2 | 45399 | 60561 | 1.18% | 0.395% |
| 14 | 3.654 | 1087 | 1102 | 1109 | rBV4 | 41033 | 72508 | 1.41% | 0.473% |
| 15 | 3.955 | 1183 | 1195 | 1211 | rBV | 674451 | 1069178 | 20.82% | 6.981% |
| 16 | 4.049 | 1214 | 1224 | 1232 | rBV2 | 46905 | 82164 | 1.60% | 0.536% |
| 17 | 4.263 | 1278 | 1290 | 1303 | rBV5 | 65234 | 130961 | 2.55% | 0.855% |
| 18 | 4.638 | 1393 | 1406 | 1425 | rVB2 | 99200 | 221642 | 4.32% | 1.447% |
| 19 | 4.975 | 1498 | 1510 | 1523 | rVB4 | 39478 | 81903 | 1.59% | 0.535% |
| 20 | 6.826 | 2080 | 2082 | 2097 | rVV5 | 45571 | 68671 | 1.34% | 0.448% |
| 21 | 6.930 | 2099 | 2114 | 2133 | rVB3 | 333234 | 709144 | 13.81% | 4.630% |
| 22 | 7.687 | 2338 | 2348 | 2365 | rVB4 | 80559 | 141385 | 2.75% | 0.923% |
| 23 | 8.299 | 2529 | 2537 | 2551 | rVB10 | 38974 | 82307 | 1.60% | 0.537% |
| 24 | 8.878 | 2701 | 2716 | 2726 | rBV2 | 860002 | 1263575 | 24.61% | 8.250% |
| 25 | 9.354 | 2854 | 2863 | 2874 | rBV | 63902 | 96513 | 1.88% | 0.630% |
| 26 | 9.529 | 2908 | 2917 | 2933 | rVB3 | 150413 | 282843 | 5.51% | 1.847% |
| 27 | 9.959 | 3036 | 3050 | 3064 | rBV3 | 89900 | 159657 | 3.11% | 1.042% |
| 28 | 10.374 | 3163 | 3178 | 3190 | rBV | 1135230 | 1374713 | 26.77% | 8.976% |
| 29 | 10.856 | 3318 | 3327 | 3335 | rBV2 | 149165 | 171668 | 3.34% | 1.121% |
| 30 | 11.092 | 3392 | 3400 | 3405 | rBV | 66859 | 74429 | 1.45% | 0.486% |
| 31 | 11.532 | 3528 | 3536 | 3546 | rVB | 96734 | 123135 | 2.40% | 0.804% |
| 32 | 11.752 | 3598 | 3604 | 3606 | rBV2 | 69225 | 70508 | 1.37% | 0.460% |
| 33 | 11.775 | 3606 | 3611 | 3619 | rVB2 | 200288 | 234316 | 4.56% | 1.530% |
| 34 | 12.040 | 3686 | 3693 | 3702 | rVB6 | 58535 | 69678 | 1.36% | 0.455% |
| 35 | 12.827 | 3929 | 3936 | 3942 | rBV2 | 85196 | 87925 | 1.71% | 0.574% |
| 36 | 13.384 | 4101 | 4108 | 4115 | rVB2 | 106361 | 108457 | 2.11% | 0.708% |

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042425.D
Acq On : 28 Apr 2025 14:34
Operator : SY/MD
Sample : Q1665-22
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-4-3242025

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

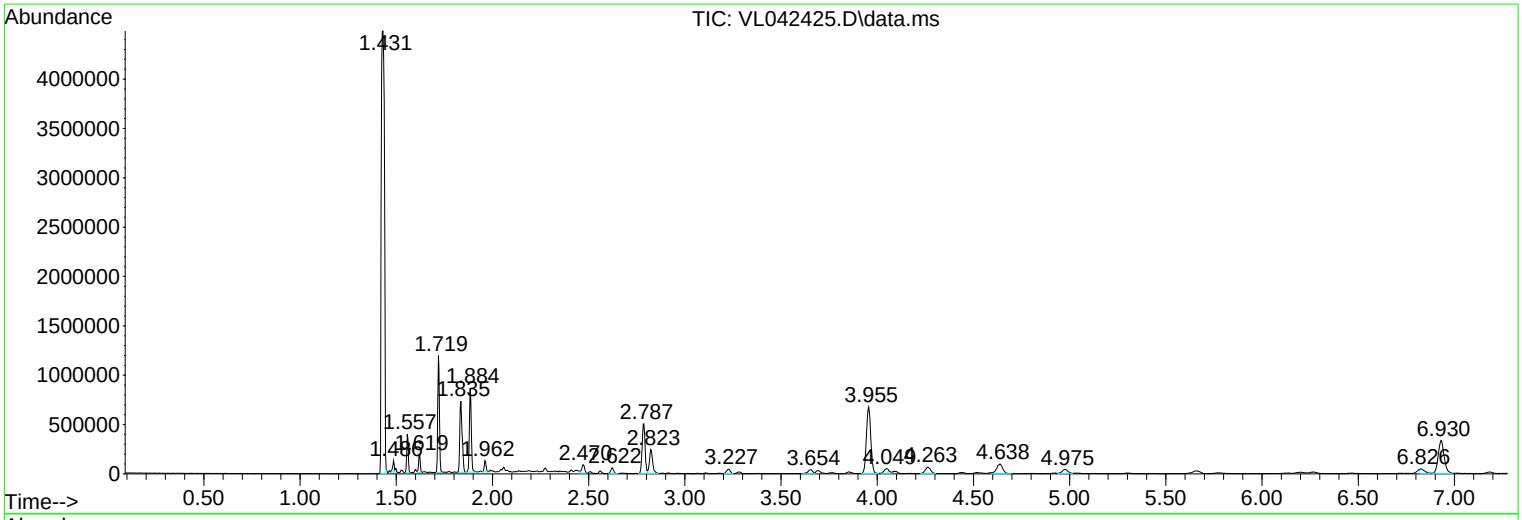
Sum of corrected areas: 15315483

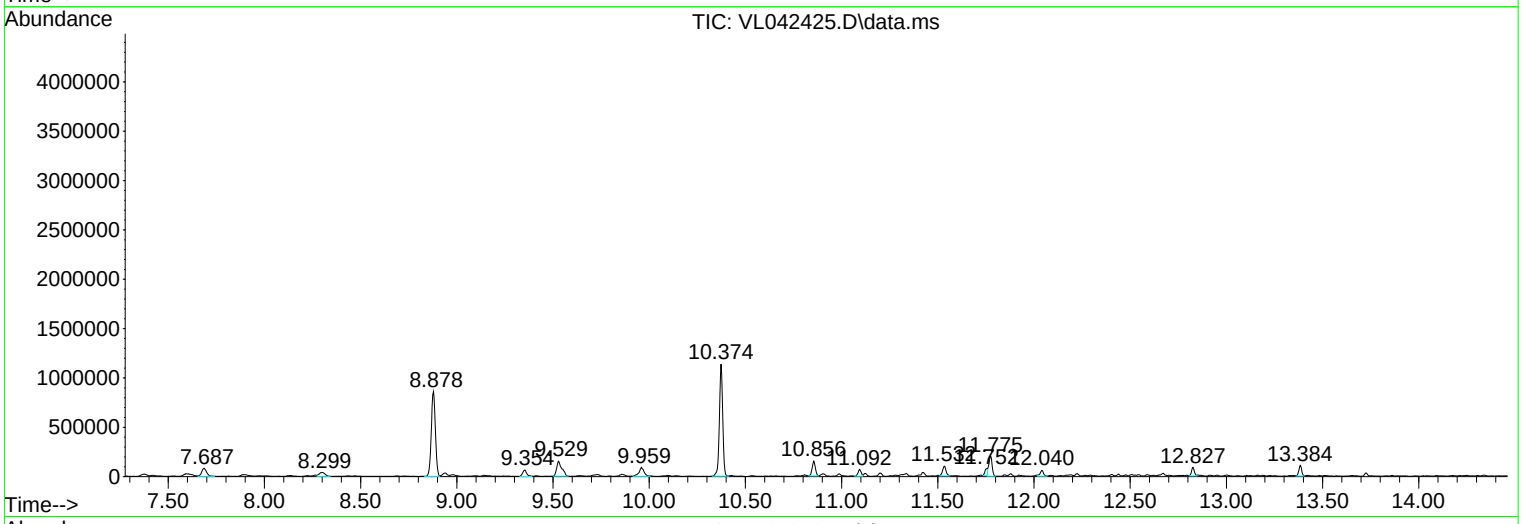
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042425.D
Acq On : 28 Apr 2025 14:34
Operator : SY/MD
Sample : Q1665-22
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

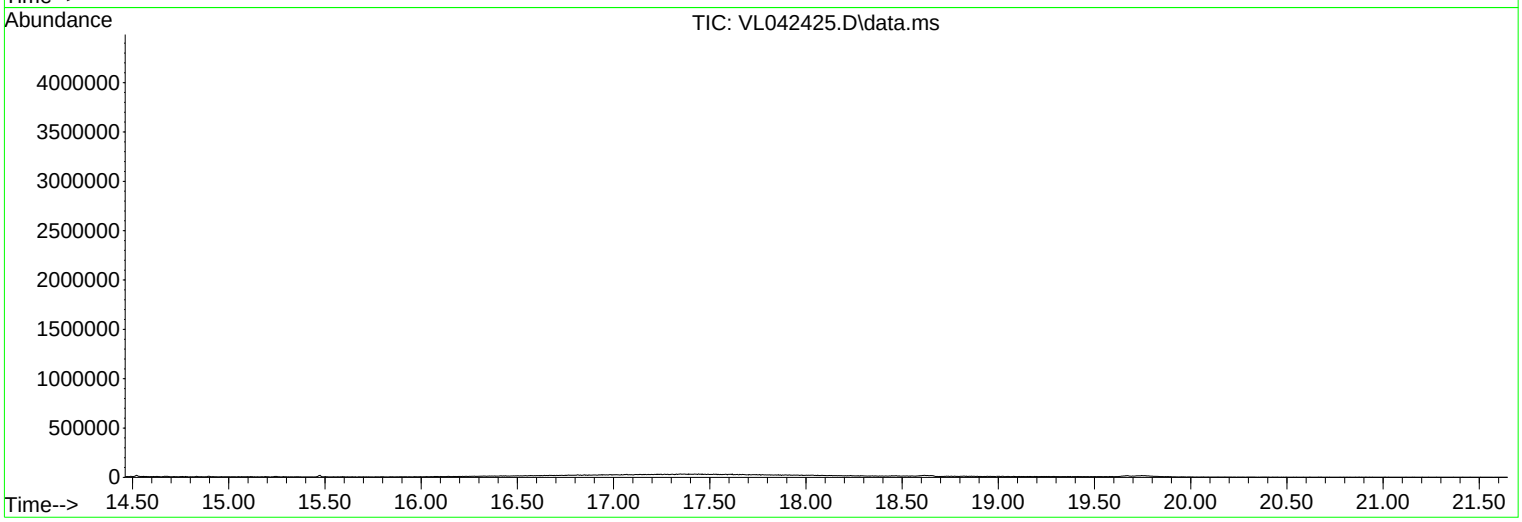
**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-4-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042425.D
Acq On : 28 Apr 2025 14:34
Operator : SY/MD
Sample : Q1665-22
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-4-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

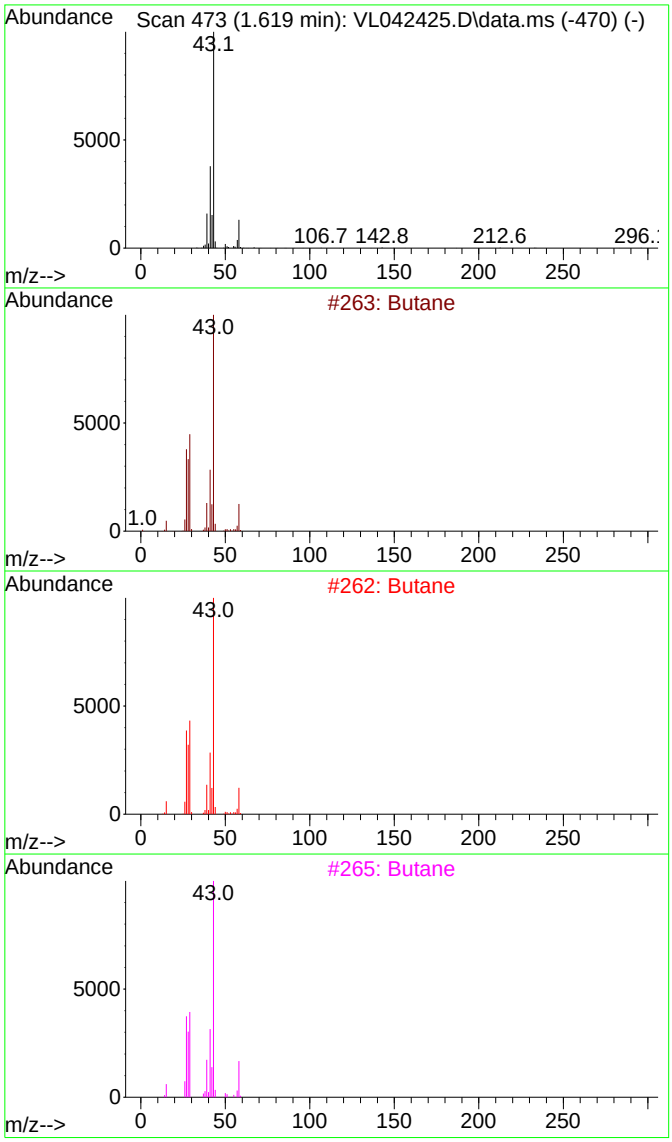
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

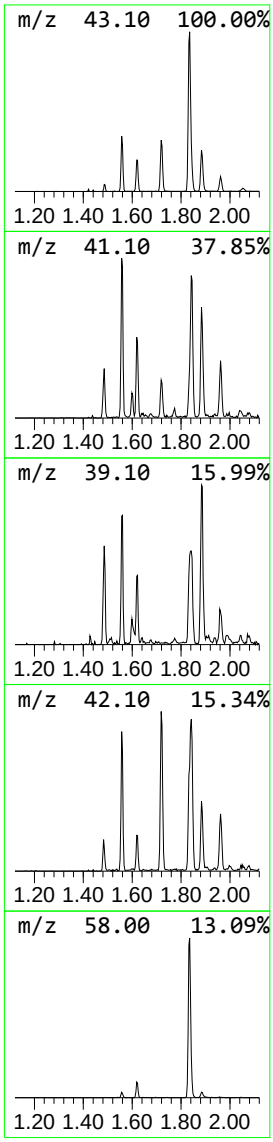
**********

Peak Number 1 Butane Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.619 | 2.02 ppbv | 106932 | Bromochloromethane | 2.784 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane | 58 | C4H10 | 000106-97-8 | 86 |
| 2 | Butane | 58 | C4H10 | 000106-97-8 | 86 |
| 3 | Butane | 58 | C4H10 | 000106-97-8 | 72 |
| 4 | Butane | 58 | C4H10 | 000106-97-8 | 72 |
| 5 | Isobutane | 58 | C4H10 | 000075-28-5 | 32 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042425.D
Acq On : 28 Apr 2025 14:34
Operator : SY/MD
Sample : Q1665-22
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-4-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

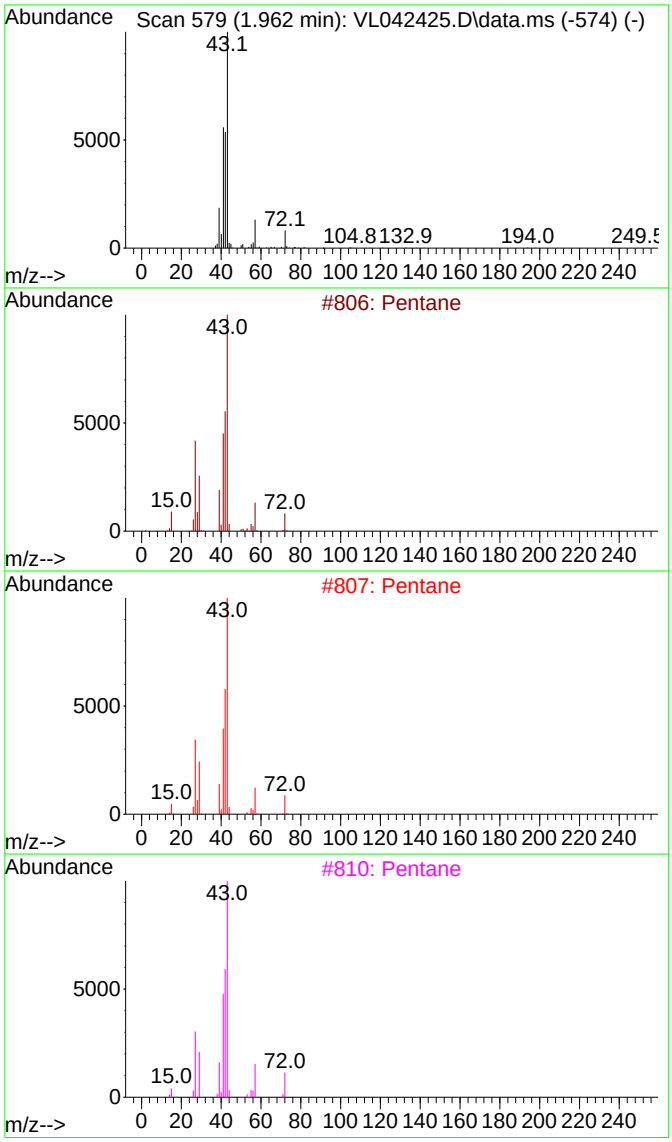
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

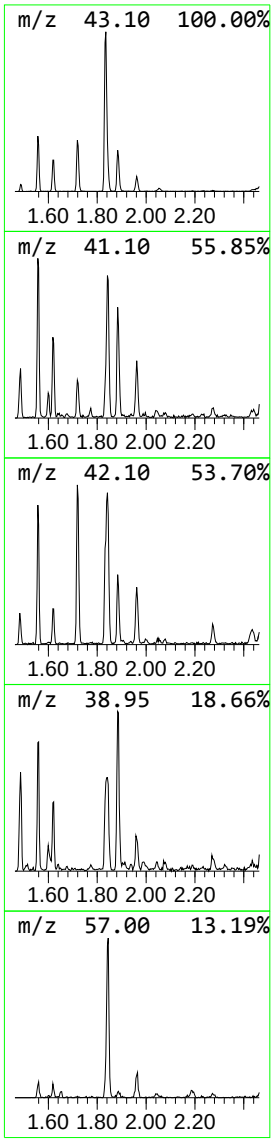
**********

Peak Number 2 Pentane Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.962 | 1.45 ppbv | 76967 | Bromochloromethane | 2.784 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane | 72 | C5H12 | 000109-66-0 | 78 |
| 2 | Pentane | 72 | C5H12 | 000109-66-0 | 72 |
| 3 | Pentane | 72 | C5H12 | 000109-66-0 | 72 |
| 4 | Pentane | 72 | C5H12 | 000109-66-0 | 59 |
| 5 | Oxirane, ethyl- | 72 | C4H8O | 000106-88-7 | 53 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042425.D
Acq On : 28 Apr 2025 14:34
Operator : SY/MD
Sample : Q1665-22
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-4-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

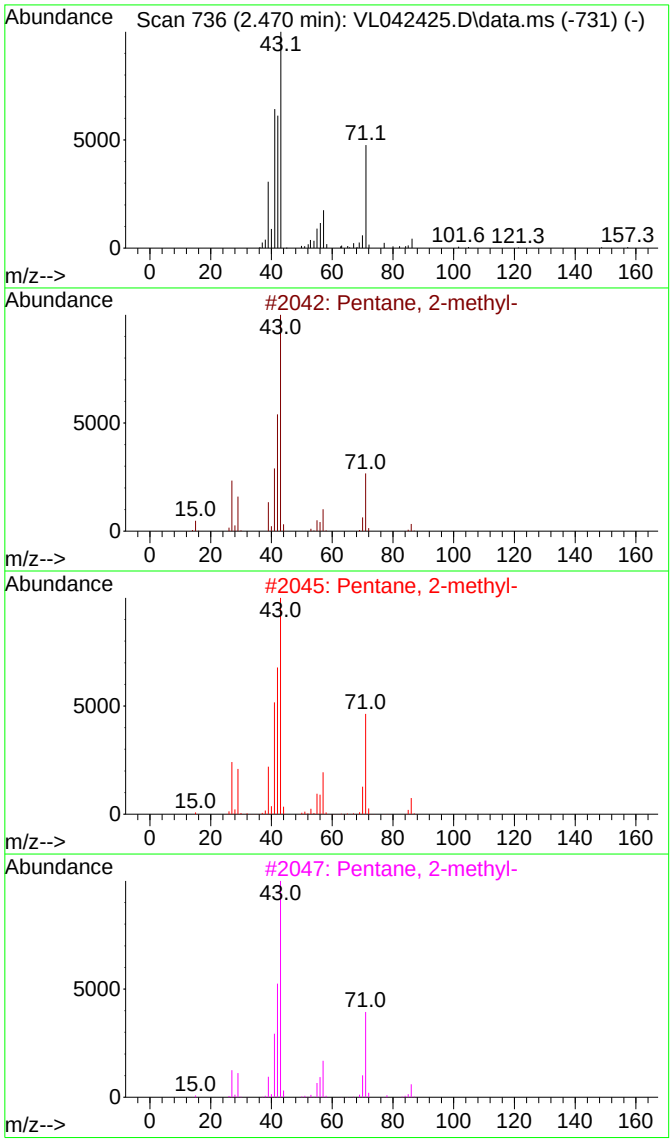
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

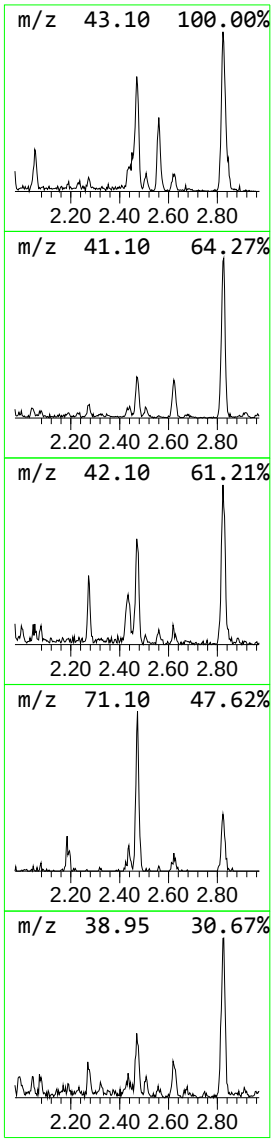
**********

Peak Number 3 Pentane, 2-methyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.470 | 1.68 ppbv | 89097 | Bromochloromethane | 2.784 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane, 2-methyl- | 86 | C6H14 | 000107-83-5 | 78 |
| 2 | Pentane, 2-methyl- | 86 | C6H14 | 000107-83-5 | 78 |
| 3 | Pentane, 2-methyl- | 86 | C6H14 | 000107-83-5 | 72 |
| 4 | Pentane, 2-methyl- | 86 | C6H14 | 000107-83-5 | 64 |
| 5 | Pentane, 2-methyl- | 86 | C6H14 | 000107-83-5 | 59 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042425.D
Acq On : 28 Apr 2025 14:34
Operator : SY/MD
Sample : Q1665-22
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-4-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

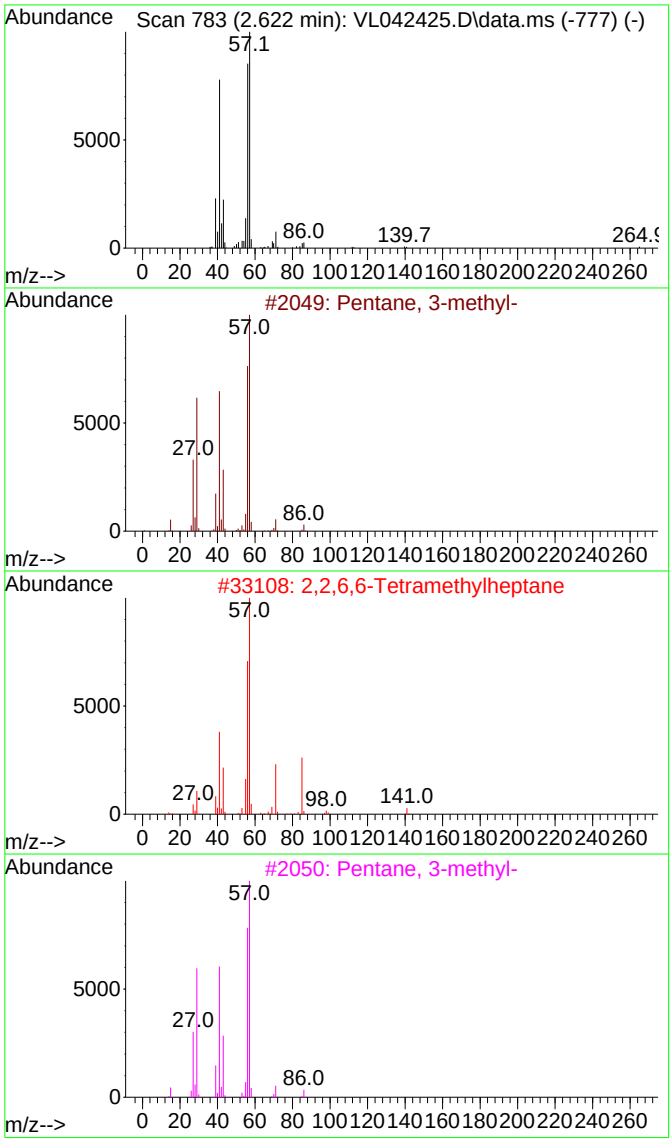
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

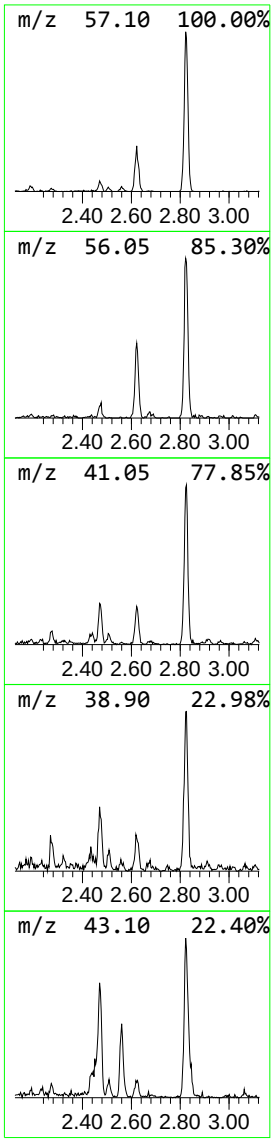
**********

Peak Number 4 Pentane, 3-methyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.622 | 1.17 ppbv | 61796 | Bromochloromethane | 2.784 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane, 3-methyl- | 86 | C6H14 | 000096-14-0 | 86 |
| 2 | 2,2,6,6-Tetramethylheptane | 156 | C11H24 | 040117-45-1 | 72 |
| 3 | Pentane, 3-methyl- | 86 | C6H14 | 000096-14-0 | 72 |
| 4 | Pentane, 3-methyl- | 86 | C6H14 | 000096-14-0 | 64 |
| 5 | Oxirane, 2-methyl-3-(1-methyleth... | 100 | C6H12O | 001192-31-0 | 64 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042425.D
Acq On : 28 Apr 2025 14:34
Operator : SY/MD
Sample : Q1665-22
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-4-3242025

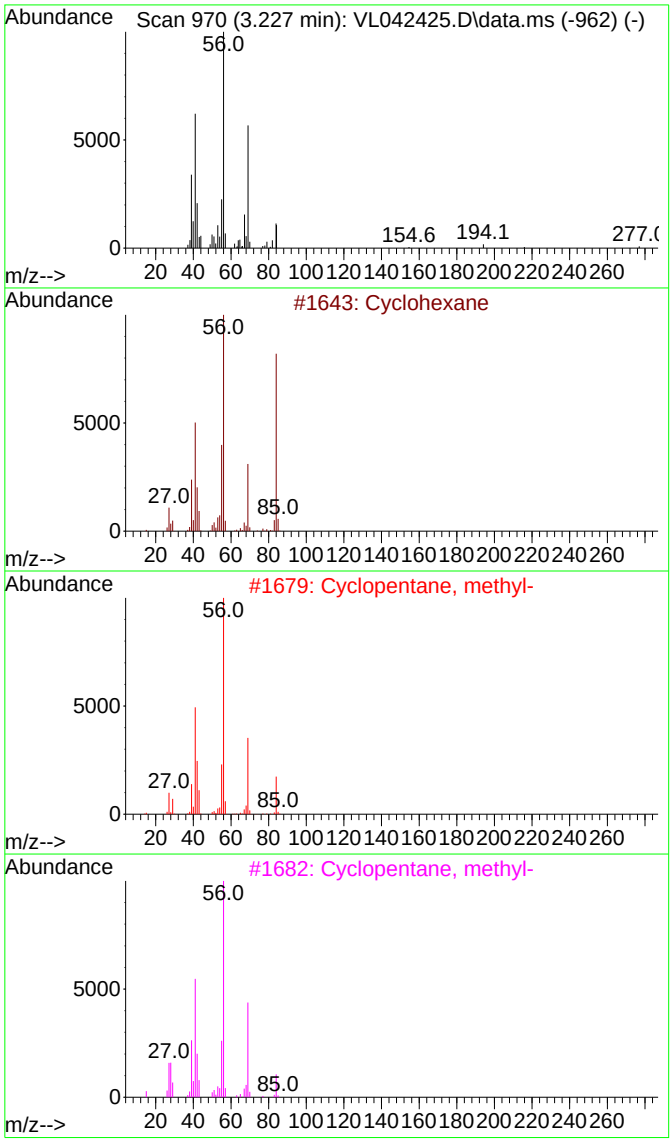
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

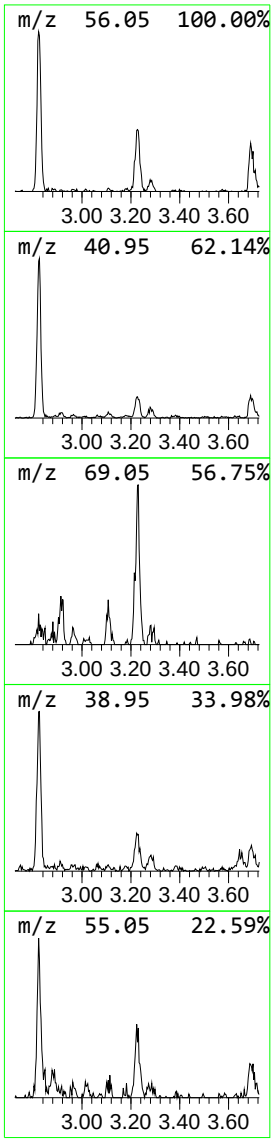
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 5 Cyclopentane, methyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.227 | 1.14 ppbv | 60561 | Bromochloromethane | 2.784 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane | 84 | C6H12 | 000110-82-7 | 72 |
| 2 | Cyclopentane, methyl- | 84 | C6H12 | 000096-37-7 | 72 |
| 3 | Cyclopentane, methyl- | 84 | C6H12 | 000096-37-7 | 72 |
| 4 | Cyclopentane, methyl- | 84 | C6H12 | 000096-37-7 | 64 |
| 5 | Cyclopentane, methyl- | 84 | C6H12 | 000096-37-7 | 64 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042425.D
Acq On : 28 Apr 2025 14:34
Operator : SY/MD
Sample : Q1665-22
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-4-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

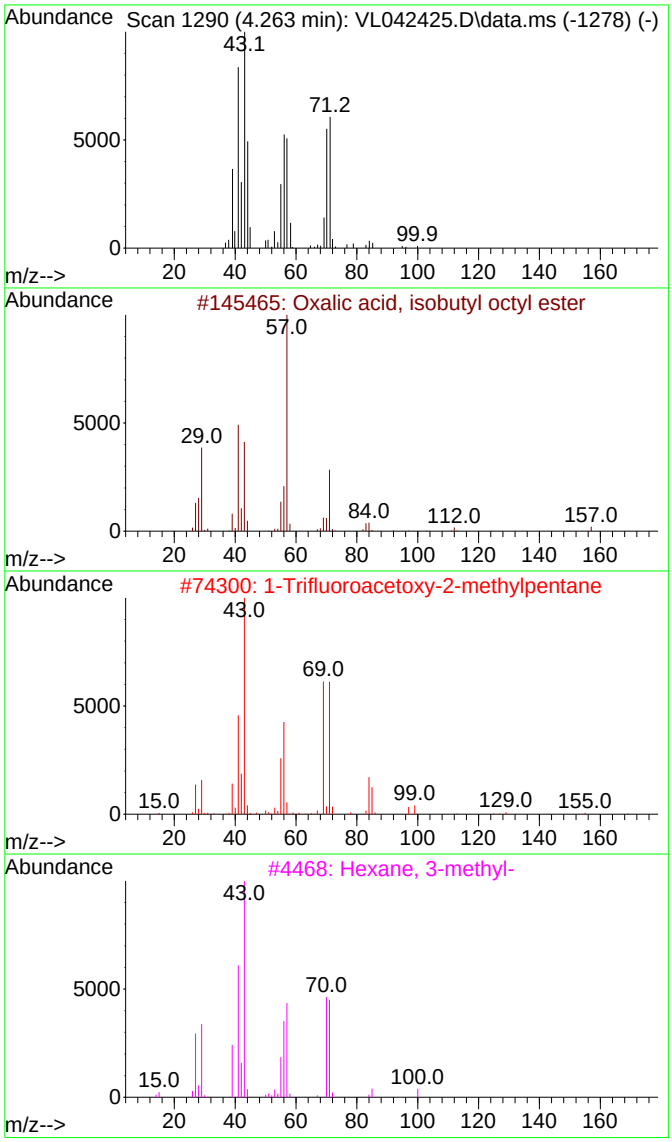
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

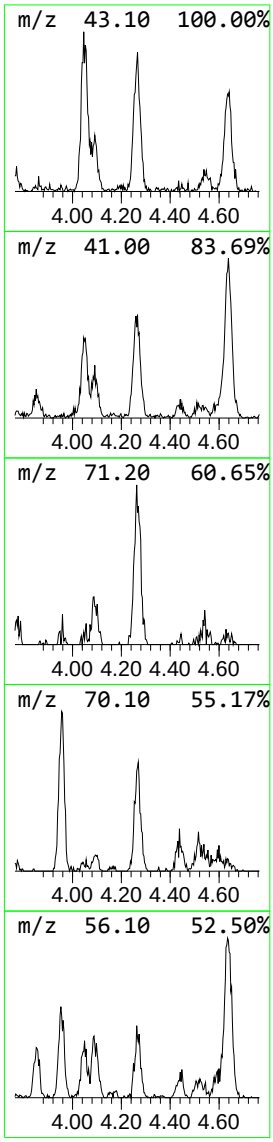
**********

Peak Number 6 unknown4.263 Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.263 | 1.22 ppbv | 130961 | 1,4-Difluorobenzene | 3.955 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Oxalic acid, isobutyl octyl ester | 258 | C14H26O4 | 1000309-37-3 | 47 |
| 2 | 1-Trifluoroacetoxy-2-methylpentane | 198 | C8H13F3O2 | 155089-96-6 | 43 |
| 3 | Hexane, 3-methyl- | 100 | C7H16 | 000589-34-4 | 42 |
| 4 | Hexane, 3-methyl- | 100 | C7H16 | 000589-34-4 | 40 |
| 5 | Hexane, 3-ethyl-4-methyl- | 128 | C9H20 | 003074-77-9 | 37 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042425.D
Acq On : 28 Apr 2025 14:34
Operator : SY/MD
Sample : Q1665-22
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-4-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

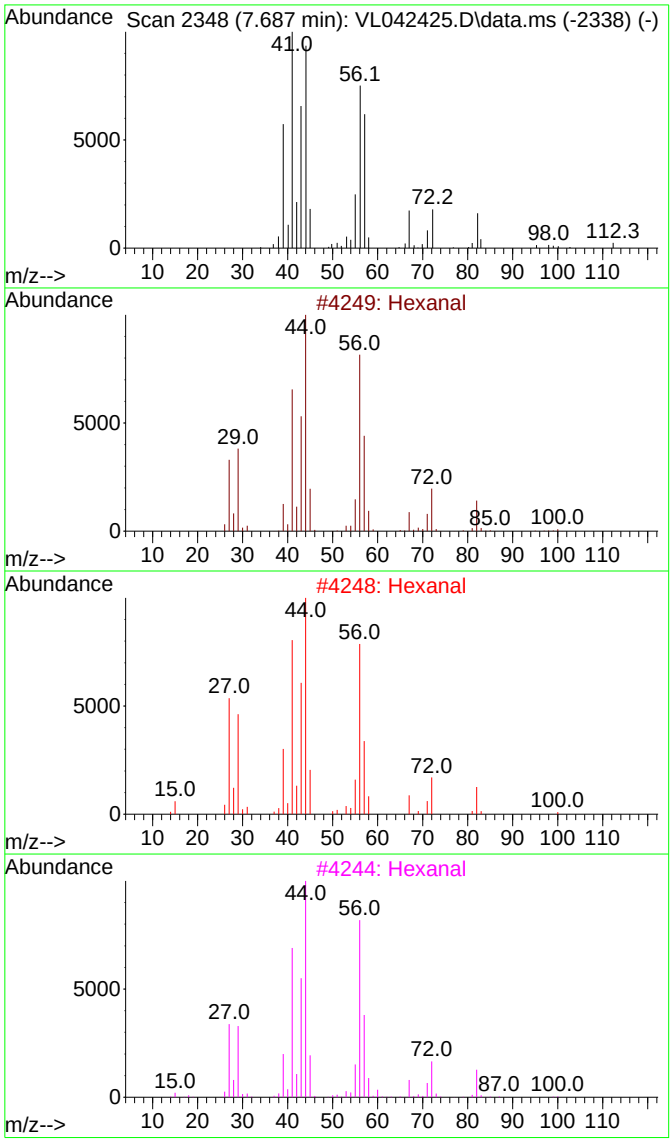
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

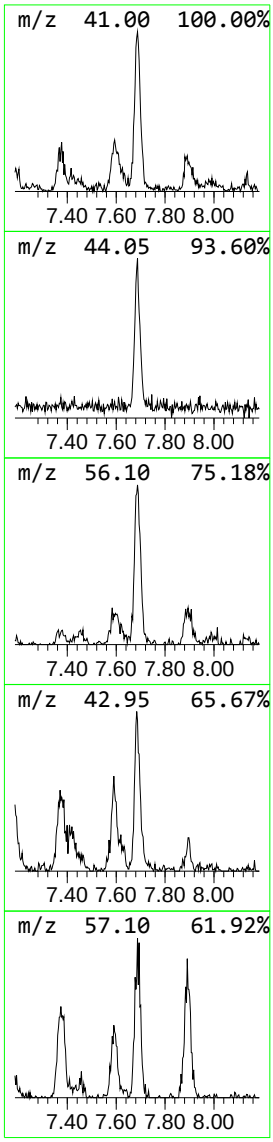
**********

Peak Number 7 Hexanal Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.687 | 1.12 ppbv | 141385 | Chlorobenzene-d5 | 8.878 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexanal | 100 | C6H12O | 000066-25-1 | 74 |
| 2 | Hexanal | 100 | C6H12O | 000066-25-1 | 45 |
| 3 | Hexanal | 100 | C6H12O | 000066-25-1 | 45 |
| 4 | Hexanal | 100 | C6H12O | 000066-25-1 | 40 |
| 5 | 1-Propene, 2-methyl- | 56 | C4H8 | 000115-11-7 | 35 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042425.D
Acq On : 28 Apr 2025 14:34
Operator : SY/MD
Sample : Q1665-22
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-4-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

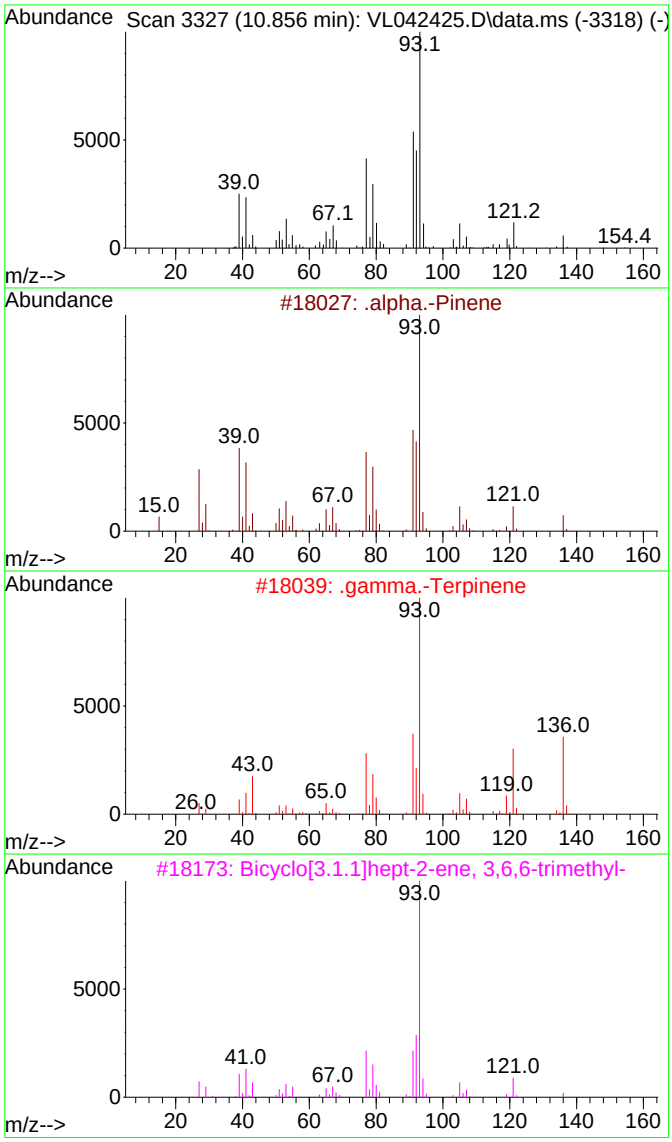
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

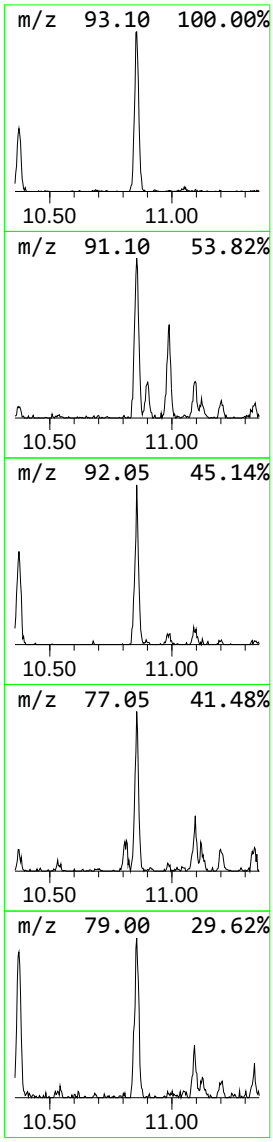
**********

Peak Number 8 .alpha.-Pinene Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.856 | 1.36 ppbv | 171668 | Chlorobenzene-d5 | 8.878 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | .alpha.-Pinene | 136 | C10H16 | 000080-56-8 | 94 |
| 2 | .gamma.-Terpinene | 136 | C10H16 | 000099-85-4 | 90 |
| 3 | Bicyclo[3.1.1]hept-2-ene, 3,6,6-... | 136 | C10H16 | 004889-83-2 | 87 |
| 4 | .gamma.-Terpinene | 136 | C10H16 | 000099-85-4 | 87 |
| 5 | (1S)-2,6,6-Trimethylbicyclo[3.1.... | 136 | C10H16 | 007785-26-4 | 86 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042425.D
Acq On : 28 Apr 2025 14:34
Operator : SY/MD
Sample : Q1665-22
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-4-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Butane | 1.619 | 2.0 | ppbv | 106932 | 1 | 2.784 | 529937 | 10.0 |
| Pentane | 1.962 | 1.5 | ppbv | 76967 | 1 | 2.784 | 529937 | 10.0 |
| Pentane, 2-methyl- | 2.470 | 1.7 | ppbv | 89097 | 1 | 2.784 | 529937 | 10.0 |
| Pentane, 3-methyl- | 2.622 | 1.2 | ppbv | 61796 | 1 | 2.784 | 529937 | 10.0 |
| Cyclopentane, m... | 3.227 | 1.1 | ppbv | 60561 | 1 | 2.784 | 529937 | 10.0 |
| unknown4.263 | 4.263 | 1.2 | ppbv | 130961 | 2 | 3.955 | 1069180 | 10.0 |
| Hexanal | 7.687 | 1.1 | ppbv | 141385 | 3 | 8.878 | 1263580 | 10.0 |
| .alpha.-Pinene | 10.856 | 1.4 | ppbv | 171668 | 3 | 8.878 | 1263580 | 10.0 |

# CALIBRATION SUMMARY

Response Factor Report MSVOA_L

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL032725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Fri Mar 28 02:00:52 2025
Response Via : Initial Calibration

Calibration Files
0.03=VL042177.D 0.1 =VL042176.D 0.5 =VL042175.D 1 =VL042174.D 2 =VL042173.D 10 =VL042172.D 15 =VL042178.D

| | | Compound | 0.03 | 0.1 | 0.5 | 1 | 2 | 10 | 15 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | Bromochloromethane | ----------ISTD---------- | | | | | | | | |
| 2) | T | Dichlorodifluo... | | | 1.602 | 1.514 | 1.482 | 1.404 | 1.380 | 1.476 | 6.03 |
| 3) | | Chlorodifluoro... | | | 1.622 | 1.541 | 1.514 | 1.457 | 1.408 | 1.508 | 5.41 |
| 4) | | Chloromethane | | | 0.660 | 0.597 | 0.618 | 0.573 | 0.570 | 0.603 | 6.17 |
| 5) | T | Vinyl Chloride | 0.882 | 0.705 | 0.635 | 0.576 | 0.584 | 0.549 | 0.546 | 0.639 | 18.84 |
| 6) | T | Bromomethane | | | 0.327 | 0.268 | 0.266 | 0.256 | 0.250 | 0.273 | 11.20 |
| 7) | | Chloroethane | | | 0.286 | 0.248 | 0.223 | 0.227 | 0.226 | 0.242 | 10.92 |
| 8) | T | Dichlorotetraf... | | | 1.306 | 1.283 | 1.274 | 1.214 | 1.211 | 1.257 | 3.40 |
| 9) | T | Propene | | | 0.734 | 0.736 | 0.698 | 0.660 | 0.630 | 0.691 | 6.69 |
| 10) | T | Heptane | | | 1.847 | 1.940 | 1.897 | 1.792 | 1.719 | 1.839 | 4.73 |
| 11) | T | Trichlorofluor... | | | 1.562 | 1.457 | 1.480 | 1.339 | 1.346 | 1.437 | 6.59 |
| 12) | T | 1,1,2-Trichlor... | | | 1.247 | 1.215 | 1.188 | 1.120 | 1.135 | 1.181 | 4.52 |
| 13) | | Ethanol | | | 0.110 | 0.086 | 0.073 | 0.029 | 0.028 | 0.065 | 55.48 |
| 14) | T | Bromoethene | | | 0.529 | 0.447 | 0.460 | 0.417 | 0.409 | 0.452 | 10.47 |
| 15) | T | Acetone | | | 1.699 | 1.573 | 1.469 | 1.113 | 1.139 | 1.399 | 18.73 |
| 16) | T | 1,3-Butadiene | | | 0.952 | 0.705 | 0.608 | 0.573 | 0.577 | 0.683 | 23.38 |
| 17) | | tert-Butyl alc... | | | 1.935 | 1.799 | 1.756 | 1.618 | 1.601 | 1.742 | 7.91 |
| 18) | T | 1,1-Dichloroet... | | | 0.624 | 0.565 | 0.560 | 0.504 | 0.507 | 0.552 | 8.99 |
| 19) | T | Isopropyl Alcohol | | | 1.016 | 0.800 | 0.738 | 0.702 | 0.689 | 0.789 | 16.99 |
| 20) | T | Methylene Chlo... | | | 0.624 | 0.563 | 0.545 | 0.438 | 0.435 | 0.521 | 15.85 |
| 21) | T | Allyl Chloride | | | 1.067 | 1.022 | 1.020 | 0.902 | 0.921 | 0.986 | 7.25 |
| 22) | T | trans-1,2-Dich... | | | 0.704 | 0.701 | 0.621 | 0.590 | 0.575 | 0.638 | 9.56 |
| 23) | T | Vinyl Acetate | | | 0.754 | 0.692 | 0.550 | 0.498 | 0.532 | 0.605 | 18.40 |
| 24) | T | 1,1-Dichloroet... | | | 1.247 | 1.208 | 1.187 | 1.122 | 1.149 | 1.183 | 4.17 |
| 25) | T | Ethyl Acetate | | | 4.017 | 3.619 | 3.703 | 3.457 | 3.353 | 3.630 | 7.06 |
| 26) | T | Hexane | | | 1.507 | 1.462 | 1.383 | 1.333 | 1.325 | 1.402 | 5.71 |
| 27) | T | Carbon Disulfide | | | 1.608 | 1.512 | 1.538 | 1.436 | 1.423 | 1.503 | 5.07 |
| 28) | T | Methyl tert-Bu... | | | 0.921 | 0.886 | 0.894 | 0.831 | 0.832 | 0.873 | 4.56 |
| 29) | T | Chloroform | | | 2.233 | 2.068 | 2.071 | 1.932 | 1.956 | 2.052 | 5.81 |
| 30) | T | Cyclohexane | | | 1.337 | 1.238 | 1.211 | 1.162 | 1.140 | 1.217 | 6.33 |
| 31) | T | cis-1,2-Dichlo... | | | 1.507 | 1.460 | 1.426 | 1.371 | 1.353 | 1.423 | 4.44 |
| 32) | T | 1,1,1-Trichlor... | 3.151 | 2.495 | 2.279 | 2.201 | 2.152 | 2.062 | 2.105 | 2.349 | 16.23 |
| 33) | I | 1,4-Difluorobenzene | ----------ISTD---------- | | | | | | | | |
| 34) | T | 2-Butanone | | | 0.754 | 0.771 | 0.770 | 0.667 | 0.664 | 0.725 | 7.58 |
| 35) | T | Carbon Tetrach... | 1.069 | 0.782 | 0.709 | 0.732 | 0.748 | 0.703 | 0.725 | 0.781 | 16.60 |
| 36) | T | Benzene | | | 1.049 | 1.027 | 1.013 | 0.934 | 0.934 | 0.991 | 5.47 |
| 37) | T | 1,2-Dichloroet... | | | 0.613 | 0.569 | 0.563 | 0.537 | 0.556 | 0.568 | 4.95 |
| 38) | T | Trichloroethene | 0.463 | 0.437 | 0.438 | 0.408 | 0.398 | 0.374 | 0.378 | 0.414 | 8.00 |
| 39) | T | 1,2-Dichloropr... | | | 0.386 | 0.373 | 0.365 | 0.337 | 0.344 | 0.361 | 5.68 |

Response Factor Report MSVOA_L

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL032725AIR.M

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 40) | T | 1,4-Dioxane | | | 0.234 | 0.197 | 0.191 | 0.169 | 0.167 | 0.192 | 14.08 |
| 41) | T | Tetrahydrofuran | | | 0.439 | 0.425 | 0.432 | 0.398 | 0.393 | 0.418 | 4.98 |
| 42) | T | Bromodichlorom... | | | 0.778 | 0.779 | 0.802 | 0.769 | 0.785 | 0.782 | 1.58 |
| 43) | | Methyl Methacr... | | | 0.442 | 0.451 | 0.408 | 0.403 | 0.394 | 0.420 | 6.03 |
| 44) | T | 2,2,4-Trimethy... | | | 1.781 | 1.689 | 1.723 | 1.608 | 1.576 | 1.675 | 5.00 |
| 45) | T | t-1,3-Dichloro... | | | 0.474 | 0.447 | 0.453 | 0.439 | 0.440 | 0.450 | 3.15 |
| 46) | T | cis-1,3-Dichlo... | | | 0.549 | 0.560 | 0.566 | 0.550 | 0.535 | 0.552 | 2.12 |
| 47) | T | 1,1,2-Trichlor... | | | 0.419 | 0.382 | 0.379 | 0.364 | 0.365 | 0.382 | 5.88 |
| 48) | T | Dibromochlorom... | | | 0.651 | 0.641 | 0.663 | 0.636 | 0.644 | 0.647 | 1.62 |
| 49) | T | Bromoform | | | 0.566 | 0.588 | 0.597 | 0.582 | 0.570 | 0.581 | 2.18 |
| 50) | T | 4-Methyl-2-Pen... | | | 1.286 | 1.214 | 1.211 | 1.027 | 1.008 | 1.149 | 10.79 |
| 51) | T | 2-Hexanone | | | 0.999 | 1.018 | 1.031 | 0.844 | 0.827 | 0.944 | 10.56 |
| 52) | T | Tetrachloroethene | 0.572 | 0.359 | 0.401 | 0.361 | 0.371 | 0.343 | 0.345 | 0.393 | 20.64 |
| 53) | T | Toluene | | | 1.239 | 1.203 | 1.202 | 1.125 | 1.108 | 1.175 | 4.76 |
| 54) | T | 1,2-Dibromoethane | | 0.574 | 0.543 | 0.538 | 0.520 | 0.508 | 0.510 | 0.532 | 4.74 |
| | | | | | | | | | | | |
| 55) | I | Chlorobenzene-d5 | ----------ISTD---------- | | | | | | | | |
| 56) | | 1,1,1,2-Tetrac... | | | 0.576 | 0.575 | 0.576 | 0.510 | 0.515 | 0.550 | 6.30 |
| 57) | T | Chlorobenzene | | | 1.024 | 0.979 | 0.994 | 0.875 | 0.871 | 0.949 | 7.46 |
| 58) | T | Ethyl Benzene | | | 1.850 | 1.822 | 1.894 | 1.671 | 1.645 | 1.776 | 6.28 |
| 59) | T | m/p-Xylene | | | 1.505 | 1.472 | 1.484 | 1.321 | 1.309 | 1.418 | 6.71 |
| 60) | T | o-Xylene | | | 1.521 | 1.475 | 1.499 | 1.328 | 1.287 | 1.422 | 7.50 |
| 61) | T | Styrene | | | 0.709 | 0.722 | 0.735 | 0.683 | 0.668 | 0.703 | 3.92 |
| 62) | | Isopropylbenzene | | | 2.290 | 2.199 | 2.261 | 1.962 | 1.920 | 2.126 | 8.14 |
| 63) | T | 1,1,2,2-Tetrac... | 0.986 | 0.800 | 0.907 | 0.889 | 0.893 | 0.796 | 0.777 | 0.864 | 8.78 |
| 64) | | n-propylbenzene | | | 0.578 | 0.581 | 0.576 | 0.499 | 0.502 | 0.547 | 7.81 |
| 65) | | tert-Butylbenzene | | | 2.190 | 2.071 | 2.144 | 1.736 | 1.691 | 1.966 | 11.96 |
| 66) | T | Benzyl Chloride | | | 0.217 | 0.213 | 0.221 | 0.203 | 0.189 | 0.209 | 6.06 |
| 67) | | sec-Butylbenzene | | | 3.005 | 2.994 | 2.947 | 2.404 | 2.316 | 2.733 | 12.54 |
| 68) | S | 1-Bromo-4-Fluo... | 0.820 | 0.827 | 0.832 | 0.810 | 0.828 | 0.813 | 0.820 | 0.821 | 0.98 |
| 69) | | p-Isopropyltol... | | | 2.554 | 2.551 | 2.560 | 2.078 | 2.025 | 2.354 | 11.74 |
| 70) | | n-Butylbenzene | | | 2.536 | 2.598 | 2.682 | 2.137 | 2.082 | 2.407 | 11.51 |
| 71) | | 2-Chlorotoluene | | | 1.717 | 1.728 | 1.759 | 1.538 | 1.510 | 1.650 | 7.07 |
| 72) | T | 4-Ethyltoluene | | | 1.834 | 1.859 | 1.929 | 1.629 | 1.601 | 1.770 | 8.26 |
| 73) | T | 1,3,5-Trimethy... | | | 1.616 | 1.671 | 1.677 | 1.387 | 1.381 | 1.546 | 9.71 |
| 74) | T | 1,2,4-Trimethy... | | | 1.994 | 1.958 | 1.966 | 1.510 | 1.478 | 1.781 | 14.74 |
| 75) | T | 1,3-Dichlorobe... | | | 1.036 | 1.022 | 1.063 | 0.882 | 0.882 | 0.977 | 8.99 |
| 76) | T | 1,4-Dichlorobe... | | | 1.030 | 1.017 | 1.040 | 0.888 | 0.886 | 0.972 | 8.05 |
| 77) | T | 1,2-Dichlorobe... | | | 1.012 | 1.031 | 1.014 | 0.850 | 0.850 | 0.951 | 9.78 |
| 78) | T | Hexachloro-1,3... | | | 1.057 | 1.113 | 1.086 | 0.802 | 0.784 | 0.968 | 16.65 |
| 79) | T | Naphthalene | | 1.637 | 1.979 | 2.181 | 2.314 | 1.806 | 1.773 | 1.948 | 13.31 |
| 80) | T | Naphthalene,2-... | | | 0.721 | 0.891 | 1.163 | 0.990 | 1.013 | 0.955 | 17.09 |
| 81) | T | 1,2,4-Trichlor... | | | 0.821 | 0.941 | 1.028 | 0.859 | 0.843 | 0.899 | 9.51 |

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042172.D
Acq On : 27 Mar 2025 08:26
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 28 01:31:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Bromochloromethane | 2.784 | 49 | 187002 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.952 | 114 | 545068 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.875 | 117 | 519536 | 10.000 | ppbv | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.371 | 95 | 422410 | 9.901 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 99.000% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.496 | 85 | 262496 | 9.507 | ppbv | 100 |
| 3) Chlorodifluoromethane | 1.473 | 51 | 272522 | 9.662 | ppbv | 100 |
| 4) Chloromethane | 1.531 | 50 | 107099 | 9.491 | ppbv | 100 |
| 5) Vinyl Chloride | 1.577 | 62 | 102699 | 8.925 | ppbv | 100 |
| 6) Bromomethane | 1.664 | 94 | 47950 | 9.377 | ppbv | 100 |
| 7) Chloroethane | 1.703 | 64 | 42516 | 9.387 | ppbv | 100 |
| 8) Dichlorotetrafluoroethane | 1.551 | 85 | 227041 | 9.656 | ppbv | 100 |
| 9) Propene | 1.483 | 41 | 123386 | 9.709 | ppbv | 100 |
| 10) Heptane | 4.972 | 43 | 335086 | 9.744 | ppbv | 100 |
| 11) Trichlorofluoromethane | 1.874 | 101 | 250349 | 9.318 | ppbv | 100 |
| 12) 1,1,2-Trichlorotrifluo... | 2.137 | 101 | 209365 | 9.481 | ppbv | 100 |
| 13) Ethanol | 1.719 | 45 | 5338 | 5.364 | ppbv | 100 |
| 14) Bromoethene | 1.777 | 108 | 77999 | 9.220 | ppbv | 100 |
| 15) Acetone | 1.832 | 43 | 208061 | 7.955 | ppbv | 100 |
| 16) 1,3-Butadiene | 1.606 | 39 | 107104 | 9.105 | ppbv | 100 |
| 17) tert-Butyl alcohol | 2.036 | 59 | 302616 | 9.290 | ppbv | 100 |
| 18) 1,1-Dichloroethene | 2.030 | 96 | 94236 | 9.128 | ppbv | 100 |
| 19) Isopropyl Alcohol | 1.884 | 45 | 131359 | 8.902 | ppbv | 100 |
| 20) Methylene Chloride | 2.059 | 84 | 81828 | 8.401 | ppbv | 100 |
| 21) Allyl Chloride | 2.091 | 41 | 168602 | 9.141 | ppbv | 100 |
| 22) trans-1,2-Dichloroethene | 2.337 | 96 | 110371 | 9.149 | ppbv | 100 |
| 23) Vinyl Acetate | 2.460 | 43 | 93080 | 8.563 | ppbv | 100 |
| 24) 1,1-Dichloroethane | 2.405 | 63 | 209753 | 9.484 | ppbv | 100 |
| 25) Ethyl Acetate | 2.833 | 43 | 646501 | 9.524 | ppbv | 100 |
| 26) Hexane | 2.823 | 57 | 249331 | 9.510 | ppbv | 100 |
| 27) Carbon Disulfide | 2.146 | 76 | 268507 | 9.550 | ppbv | 100 |
| 28) Methyl tert-Butyl Ether | 2.438 | 73 | 155398 | 9.520 | ppbv | 100 |
| 29) Chloroform | 2.845 | 83 | 361264 | 9.415 | ppbv | 100 |
| 30) Cyclohexane | 3.852 | 84 | 217215 | 9.537 | ppbv | 100 |
| 31) cis-1,2-Dichloroethene | 2.716 | 61 | 256425 | 9.634 | ppbv | 100 |
| 32) 1,1,1-Trichloroethane | 3.363 | 97 | 385628 | 8.784 | ppbv | 100 |
| 34) 2-Butanone | 2.554 | 43 | 363735 | 9.203 | ppbv | 100 |
| 35) Carbon Tetrachloride | 3.758 | 117 | 382925 | 9.129 | ppbv | 100 |
| 36) Benzene | 3.651 | 78 | 508860 | 9.417 | ppbv | 100 |
| 37) 1,2-Dichloroethane | 3.214 | 62 | 292937 | 9.469 | ppbv | 100 |
| 38) Trichloroethene | 4.545 | 130 | 204027 | 9.045 | ppbv | 100 |
| 39) 1,2-Dichloropropane | 4.312 | 63 | 183439 | 9.321 | ppbv | 100 |
| 40) 1,4-Dioxane | 4.577 | 88 | 92327 | 9.042 | ppbv # | 100 |
| 41) Tetrahydrofuran | 3.049 | 42 | 216851 | 9.643 | ppbv | 100 |
| 42) Bromodichloromethane | 4.483 | 83 | 418887 | 9.822 | ppbv | 100 |
| 43) Methyl Methacrylate | 4.872 | 69 | 219399 | 9.618 | ppbv | 100 |
| 44) 2,2,4-Trimethylpentane | 4.635 | 57 | 876649 | 9.600 | ppbv | 100 |
| 45) t-1,3-Dichloropropene | 6.406 | 75 | 239180 | 9.746 | ppbv | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042172.D
Acq On : 27 Mar 2025 08:26
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 28 01:31:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.593 | 75 | 300021 | 9.973 | ppbv | | 100 |
| 47) 1,1,2-Trichloroethane | 6.574 | 97 | 198176 | 9.526 | ppbv | | 100 |
| 48) Dibromochloromethane | 7.380 | 129 | 346499 | 9.828 | ppbv | | 100 |
| 49) Bromoform | 9.477 | 173 | 317189 | 10.021 | ppbv | | 100 |
| 50) 4-Methyl-2-Pentanone | 5.745 | 43 | 559800 | 8.934 | ppbv | | 100 |
| 51) 2-Hexanone | 7.432 | 43 | 460013 | 8.848 | ppbv | # | 100 |
| 52) Tetrachloroethene | 8.218 | 164 | 186912 | 8.722 | ppbv | | 100 |
| 53) Toluene | 6.927 | 91 | 613378 | 9.576 | ppbv | | 100 |
| 54) 1,2-Dibromoethane | 7.649 | 107 | 276797 | 9.536 | ppbv | | 100 |
| 56) 1,1,1,2-Tetrachloroethane | 8.917 | 131 | 265037 | 9.268 | ppbv | | 100 |
| 57) Chlorobenzene | 8.917 | 112 | 454511 | 9.223 | ppbv | | 100 |
| 58) Ethyl Benzene | 9.351 | 91 | 868003 | 9.406 | ppbv | | 100 |
| 59) m/p-Xylene | 9.549 | 91 | 1372806m | 18.607 | ppbv | | |
| 60) o-Xylene | 9.960 | 91 | 689933 | 9.340 | ppbv | | 100 |
| 61) Styrene | 9.866 | 104 | 354697 | 9.706 | ppbv | | 100 |
| 62) Isopropylbenzene | 10.536 | 105 | 1019255 | 9.227 | ppbv | | 100 |
| 63) 1,1,2,2-Tetrachloroethane | 9.960 | 83 | 413392 | 9.210 | ppbv | | 100 |
| 64) n-propylbenzene | 10.986 | 120 | 259405 | 9.122 | ppbv | | 100 |
| 65) tert-Butylbenzene | 11.529 | 119 | 901951 | 8.828 | ppbv | | 100 |
| 66) Benzyl Chloride | 11.610 | 91 | 105411 | 9.724 | ppbv | | 100 |
| 67) sec-Butylbenzene | 11.766 | 105 | 1249106 | 8.796 | ppbv | | 100 |
| 69) p-Isopropyltoluene | 11.924 | 119 | 1079675 | 8.830 | ppbv | | 100 |
| 70) n-Butylbenzene | 12.277 | 91 | 1110351 | 8.879 | ppbv | | 100 |
| 71) 2-Chlorotoluene | 10.898 | 91 | 799102 | 9.320 | ppbv | | 100 |
| 72) 4-Ethyltoluene | 11.122 | 105 | 846232 | 9.200 | ppbv | | 100 |
| 73) 1,3,5-Trimethylbenzene | 11.199 | 105 | 720566 | 8.970 | ppbv | | 100 |
| 74) 1,2,4-Trimethylbenzene | 11.536 | 105 | 784745 | 8.480 | ppbv | | 100 |
| 75) 1,3-Dichlorobenzene | 11.604 | 146 | 458226 | 9.028 | ppbv | | 100 |
| 76) 1,4-Dichlorobenzene | 11.669 | 146 | 461371 | 9.134 | ppbv | | 100 |
| 77) 1,2-Dichlorobenzene | 11.944 | 146 | 441473 | 8.933 | ppbv | | 100 |
| 78) Hexachloro-1,3-Butadiene | 13.879 | 225 | 416735 | 8.284 | ppbv | | 100 |
| 79) Naphthalene | 13.510 | 128 | 938470 | 9.271 | ppbv | | 100 |
| 80) Naphthalene,2-methyl- | 14.455 | 142 | 514394 | 10.436 | ppbv | | 100 |
| 81) 1,2,4-Trichlorobenzene | 13.439 | 180 | 446420 | 9.561 | ppbv | | 100 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

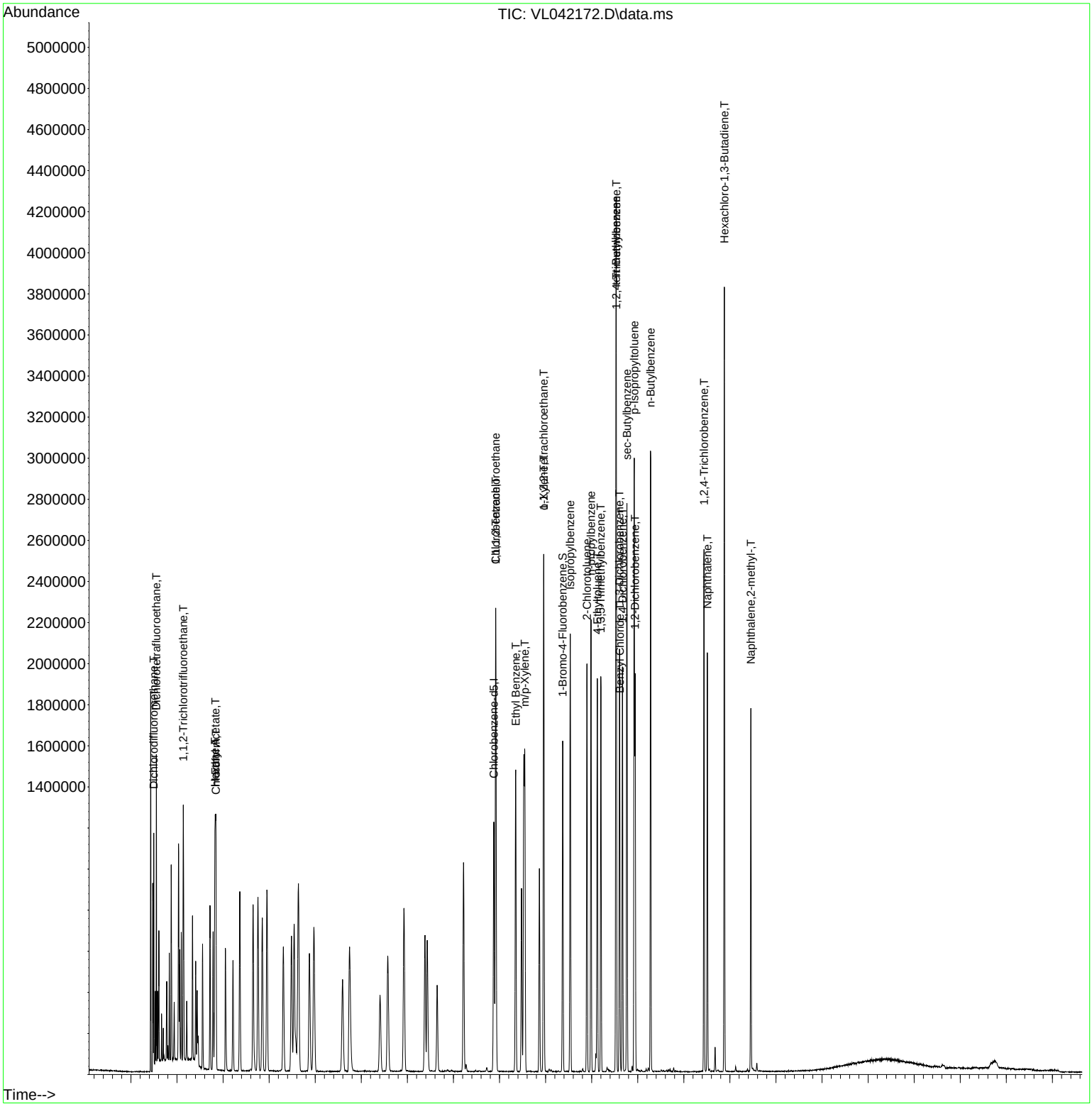
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042172.D
Acq On : 27 Mar 2025 08:26
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

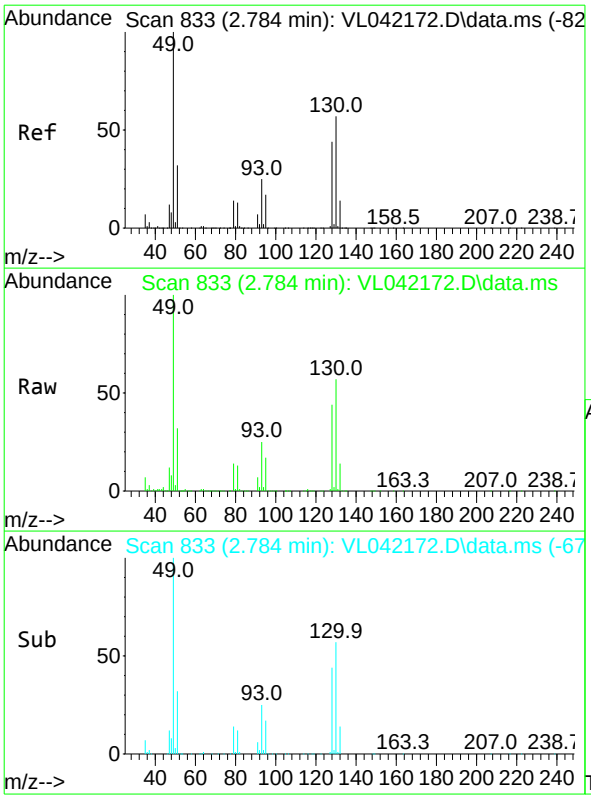
Quant Time: Mar 28 01:31:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

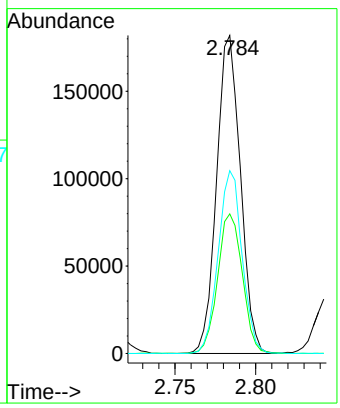





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 83
Delta R.T. -0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 49 Resp: 187002

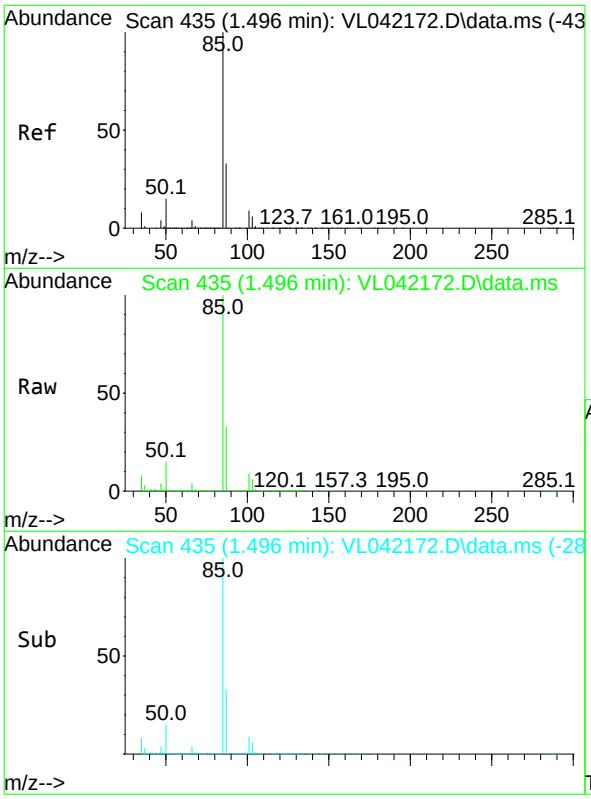
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 45.7 | 22.9 | 68.5 |
| 130 | 57.6 | 28.8 | 86.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

**Manual Integrations APPROVED**

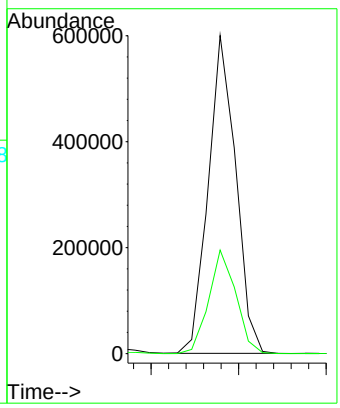
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

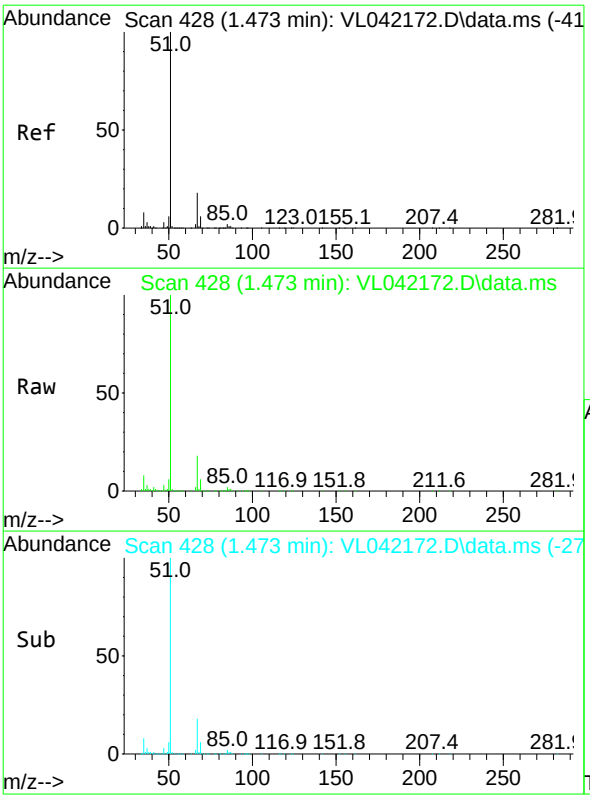



#2
Dichlorodifluoromethane
Concen: 9.507 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 85 Resp: 262496

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.6 | 26.1 | 39.1 |

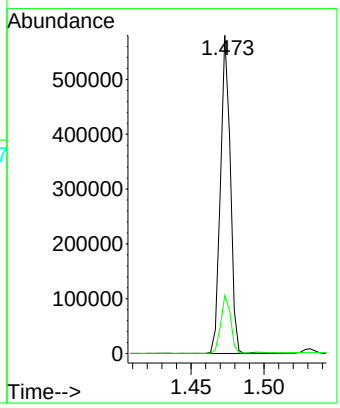





#3
Chlorodifluoromethane
Concen: 9.662 ppbv
RT: 1.473 min Scan# 42
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 51 Resp: 272522

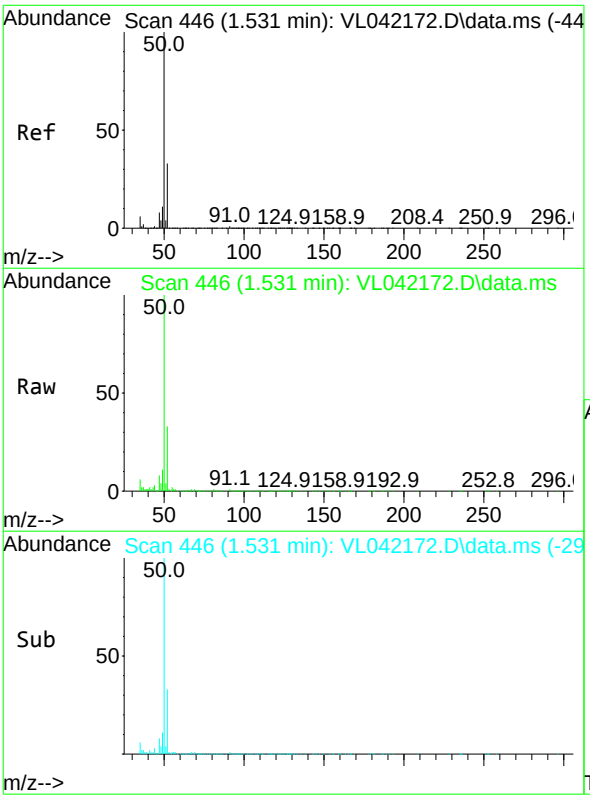
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 18.8 | 15.0 | 22.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

**Manual Integrations APPROVED**

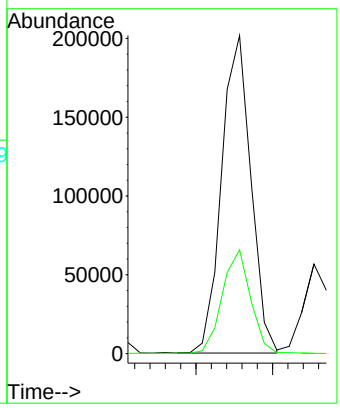
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

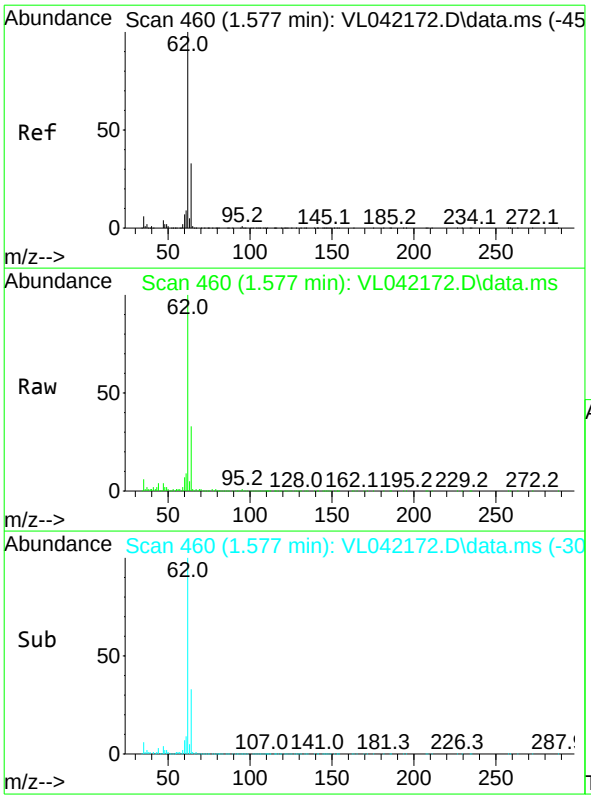



#4
Chloromethane
Concen: 9.491 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 50 Resp: 107099

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.6 | 26.1 | 39.1 |

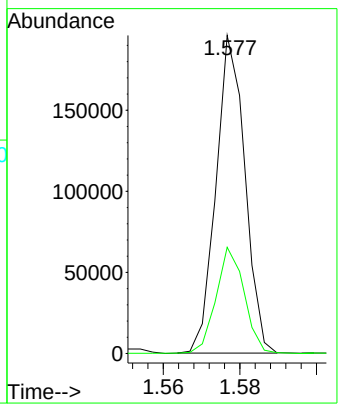





#5
Vinyl Chloride
Concen: 8.925 ppbv
RT: 1.577 min Scan# 46
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 62 Resp: 102699

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 33.3 | 26.6 | 40.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

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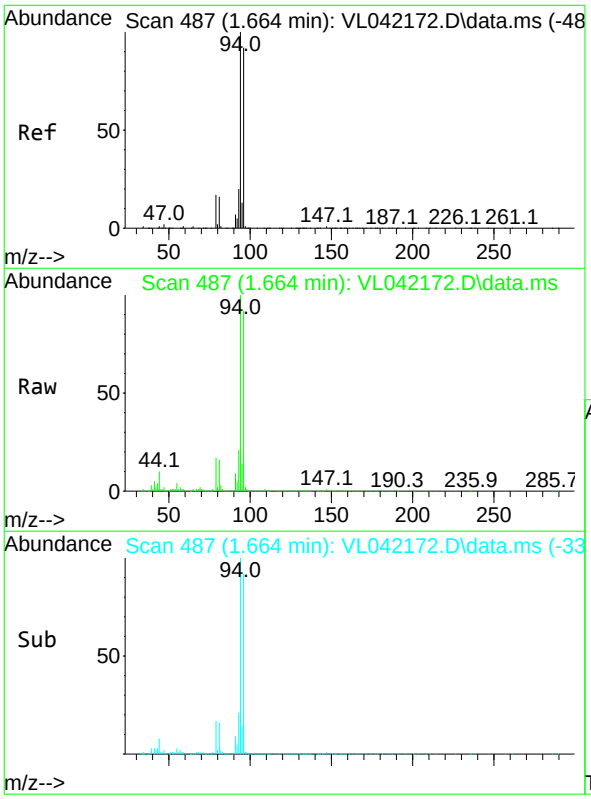
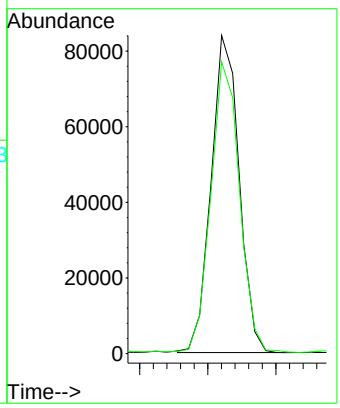
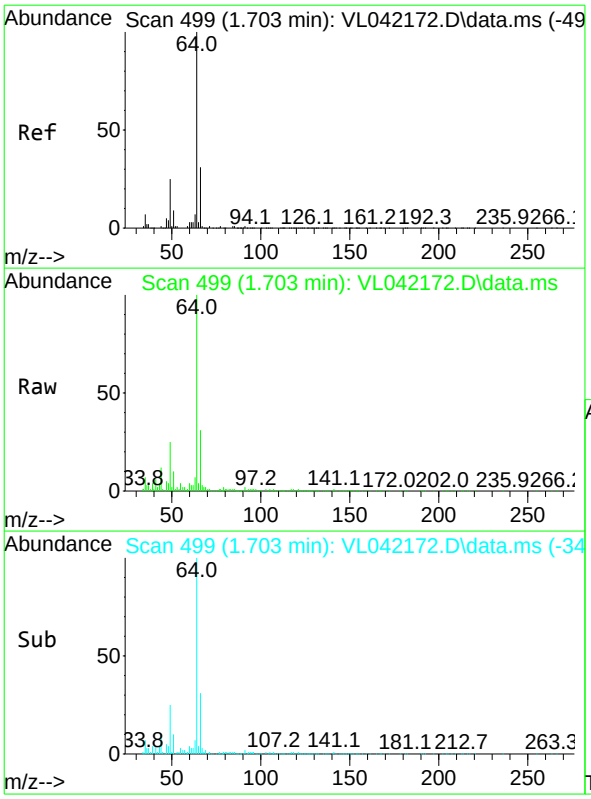



#6
Bromomethane
Concen: 9.377 ppbv
RT: 1.664 min Scan# 487
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 94 Resp: 47950

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 91.4 | 73.1 | 109.7 |

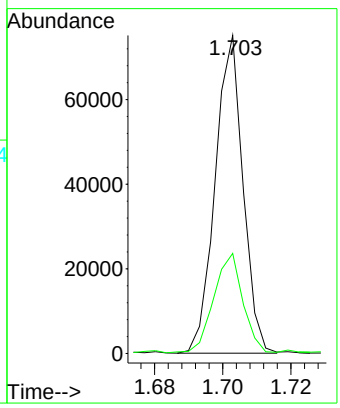





#7
Chloroethane
Concen: 9.387 ppbv
RT: 1.703 min Scan# 49
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 64 Resp: 42516

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 31.5 | 25.2 | 37.8 |

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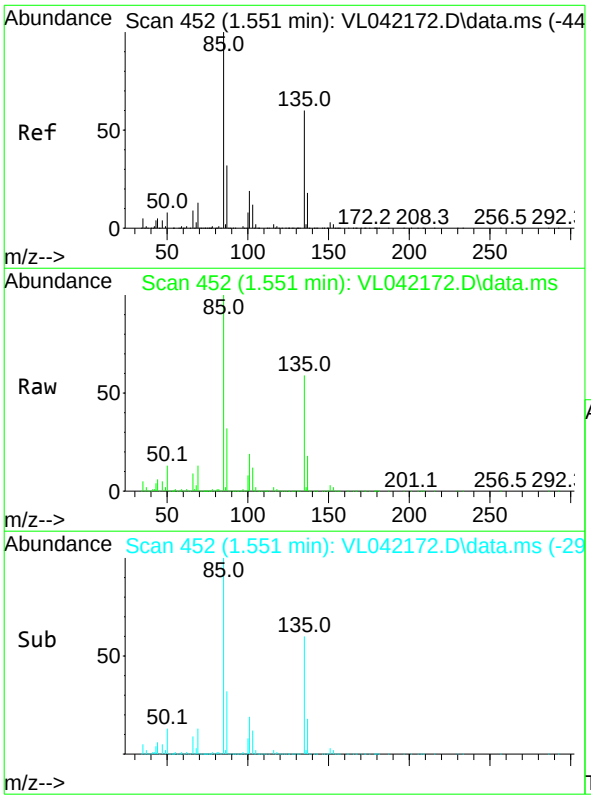
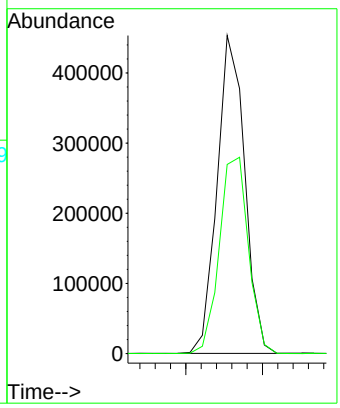
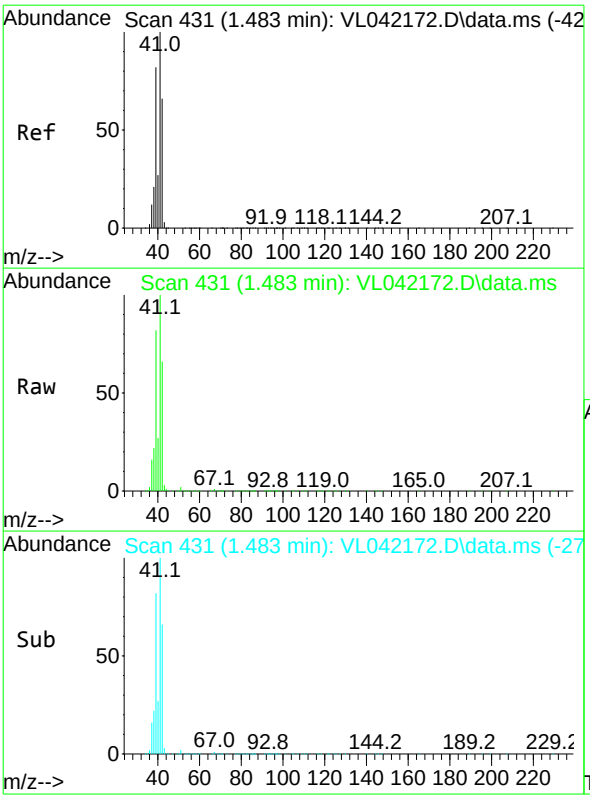



#8
Dichlorotetrafluoroethane
Concen: 9.656 ppbv
RT: 1.551 min Scan# 452
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 85 Resp: 227041

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 65.5 | 52.4 | 78.6 |

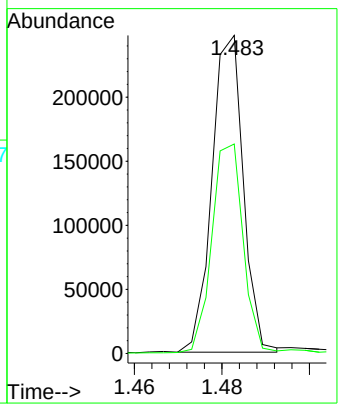





#9
Propene
Concen: 9.709 ppbv
RT: 1.483 min Scan# 43
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 41 Resp: 123386

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 69.3 | 55.4 | 83.2 |

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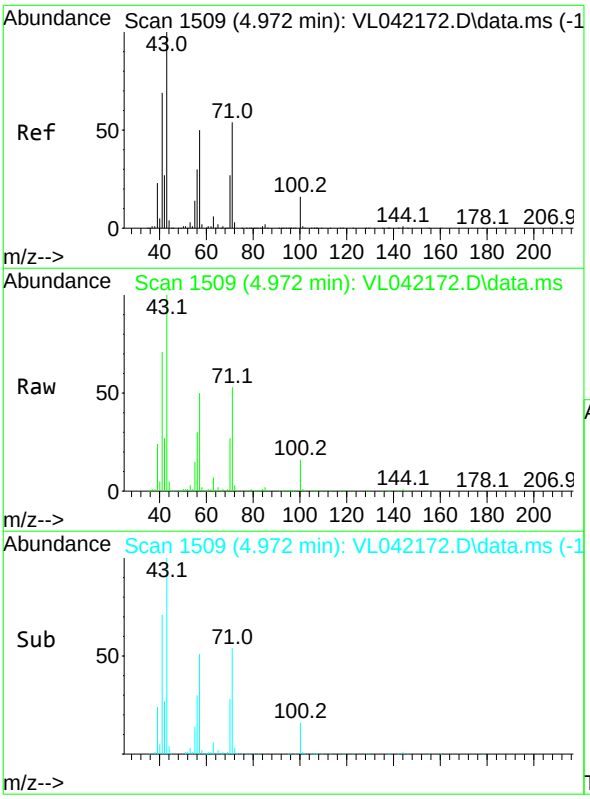
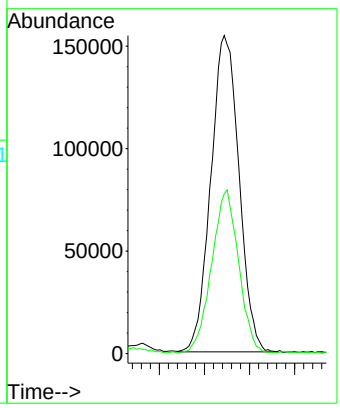
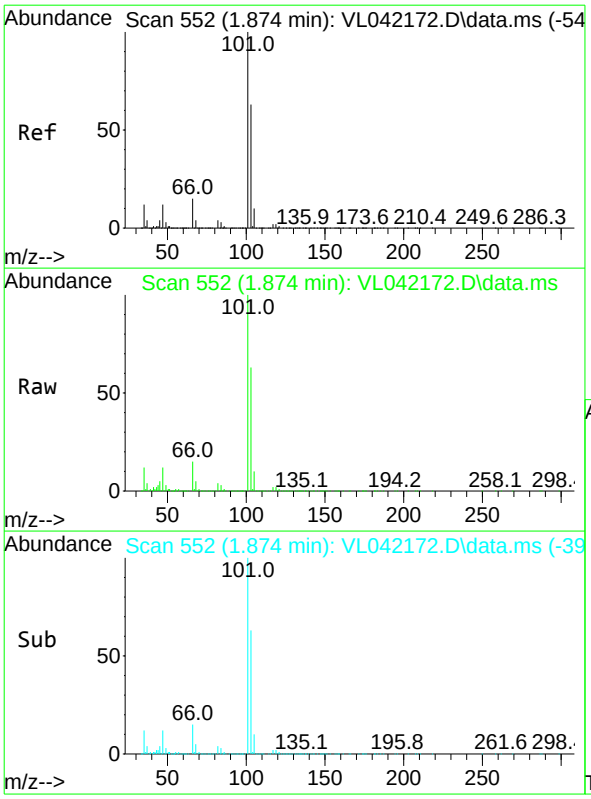



#10
Heptane
Concen: 9.744 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 43 Resp: 335086

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 49.3 | 39.4 | 59.2 |

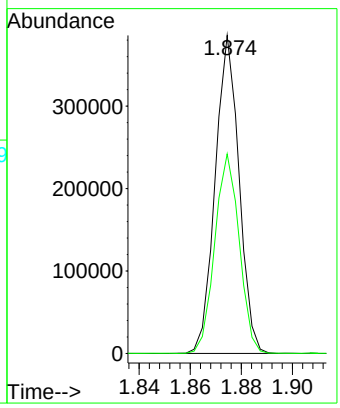





#11
Trichlorofluoromethane
Concen: 9.318 ppbv
RT: 1.874 min Scan# 55
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:101 Resp: 250349

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 62.7 | 50.2 | 75.2 |

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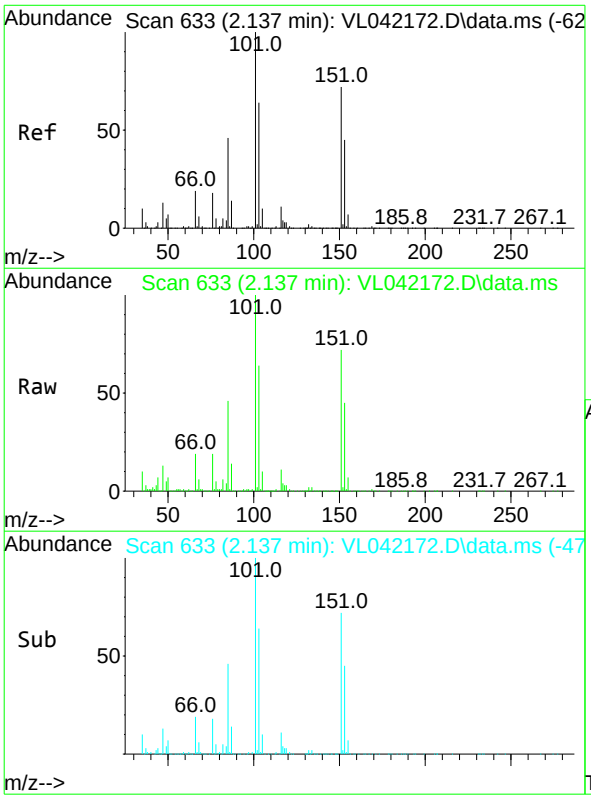
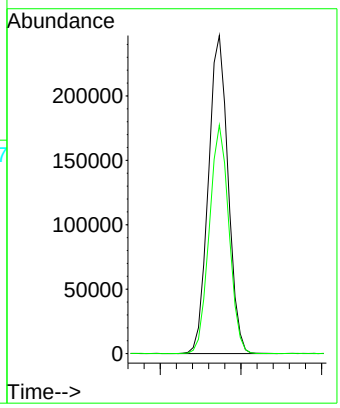
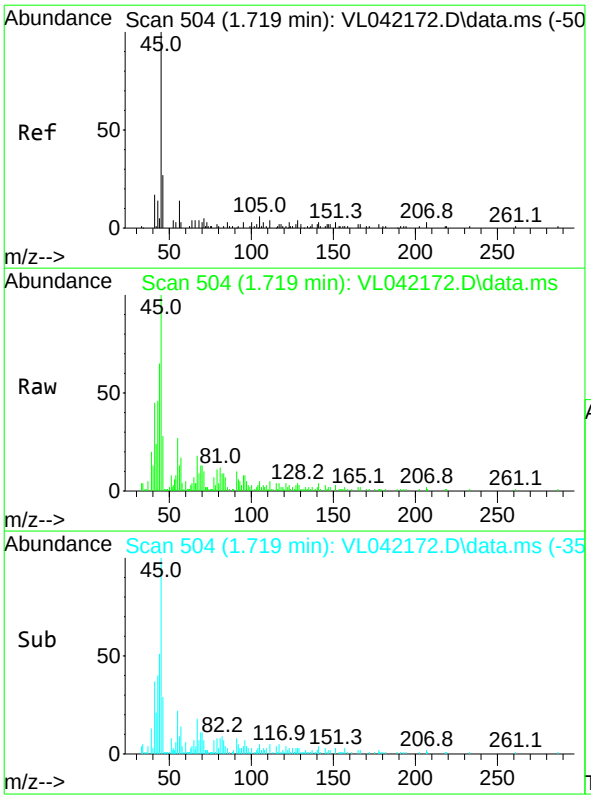



#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.481 ppbv
RT: 2.137 min Scan# 633
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:101 Resp: 209365

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 71.4 | 57.1 | 85.7 |

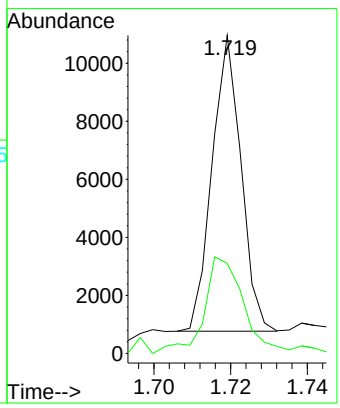





#13
Ethanol
Concen: 5.364 ppbv
RT: 1.719 min Scan# 50
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 45 Resp: 5338

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 50.5 | 20.2 | 80.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
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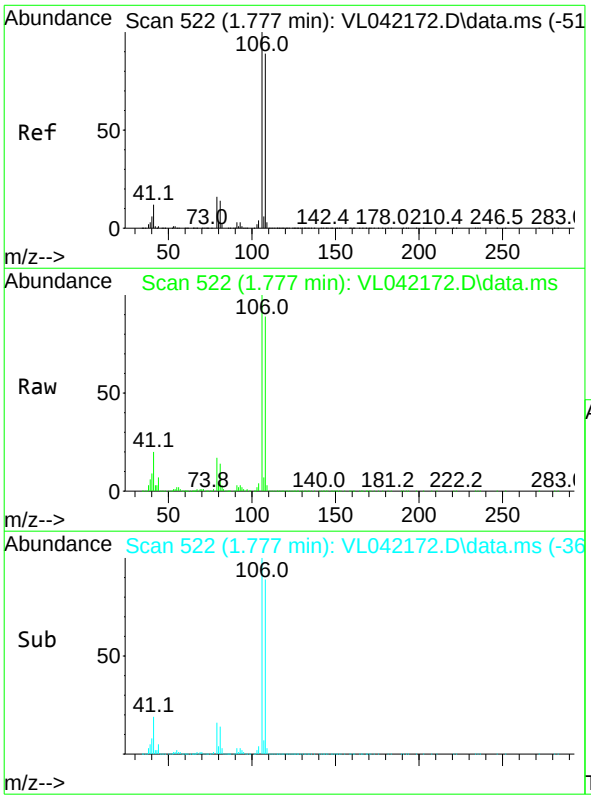
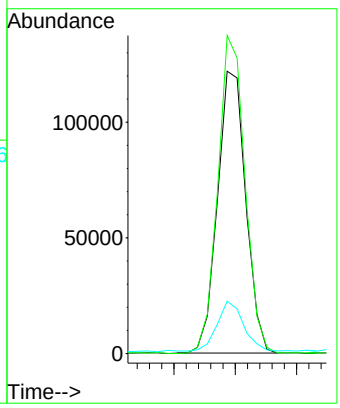
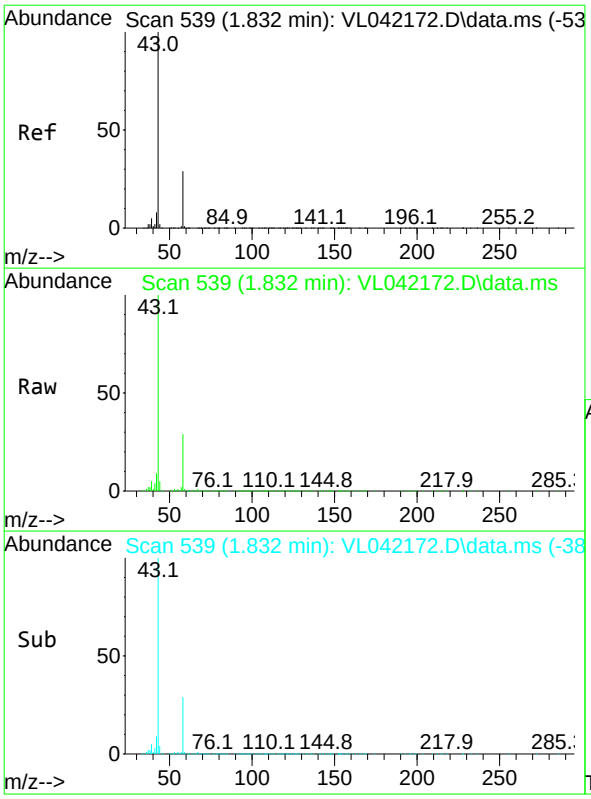



#14
Bromoethene
Concen: 9.220 ppbv
RT: 1.777 min Scan# 522
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:108 Resp: 77999

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 106 | 108.5 | 86.8 | 130.2 |
| 79 | 18.8 | 15.0 | 22.6 |

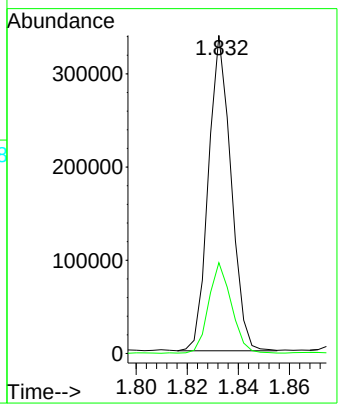





#15
Acetone
Concen: 7.955 ppbv
RT: 1.832 min Scan# 53
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 43 Resp: 208061

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 29.0 | 23.2 | 34.8 |

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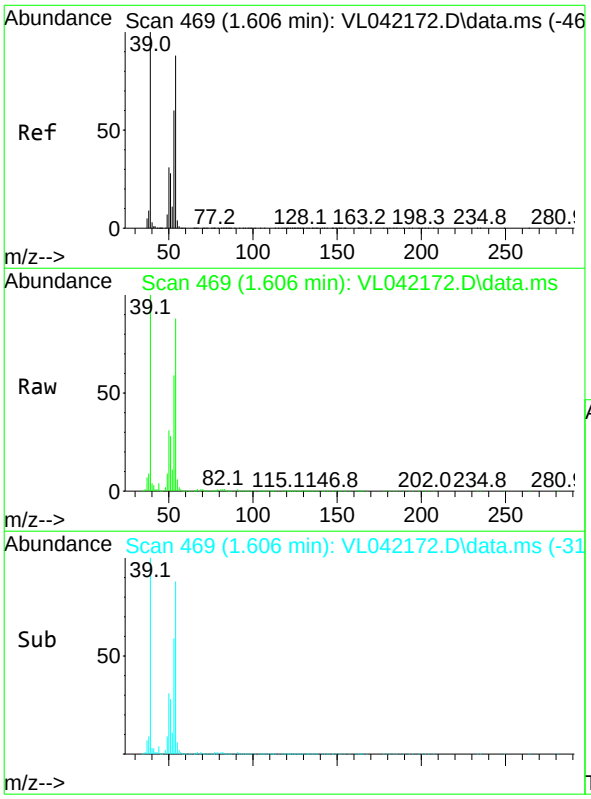
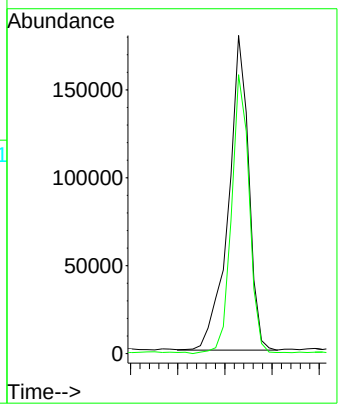
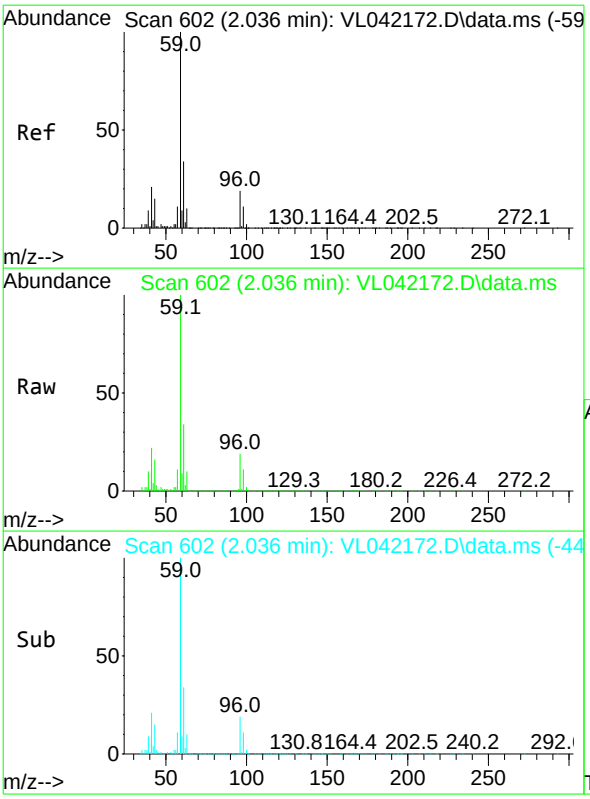



#16
1,3-Butadiene
Concen: 9.105 ppbv
RT: 1.606 min Scan# 469
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 39 Resp: 107104

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 75.9 | 60.7 | 91.1 |

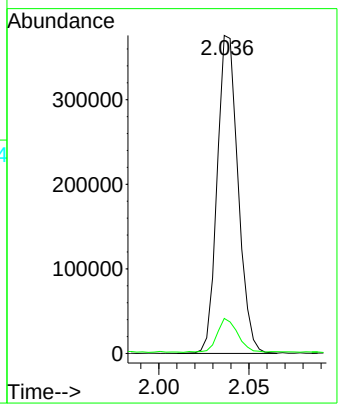





#17
tert-Butyl alcohol
Concen: 9.290 ppbv
RT: 2.036 min Scan# 60
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 59 Resp: 302616

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 11.1 | 8.9 | 13.3 |

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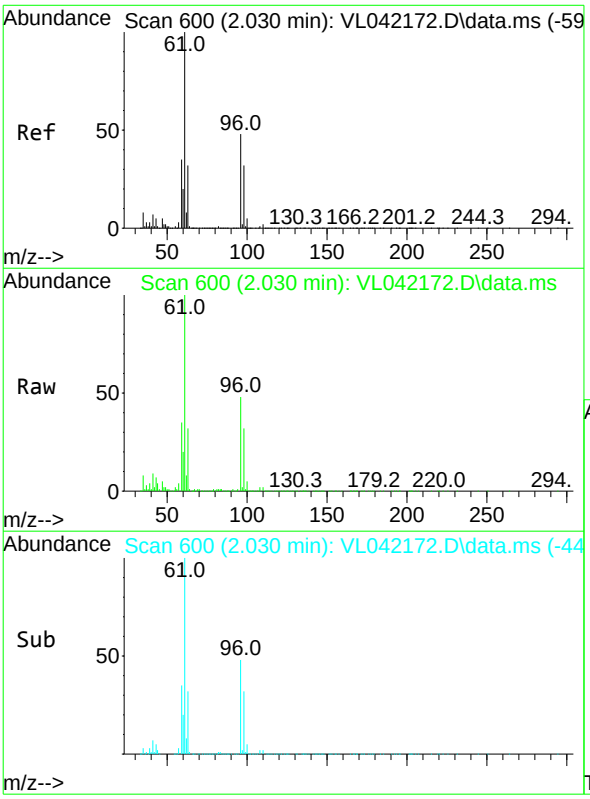
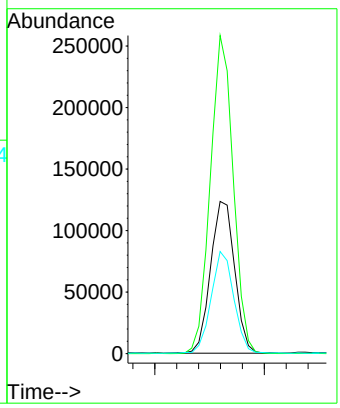
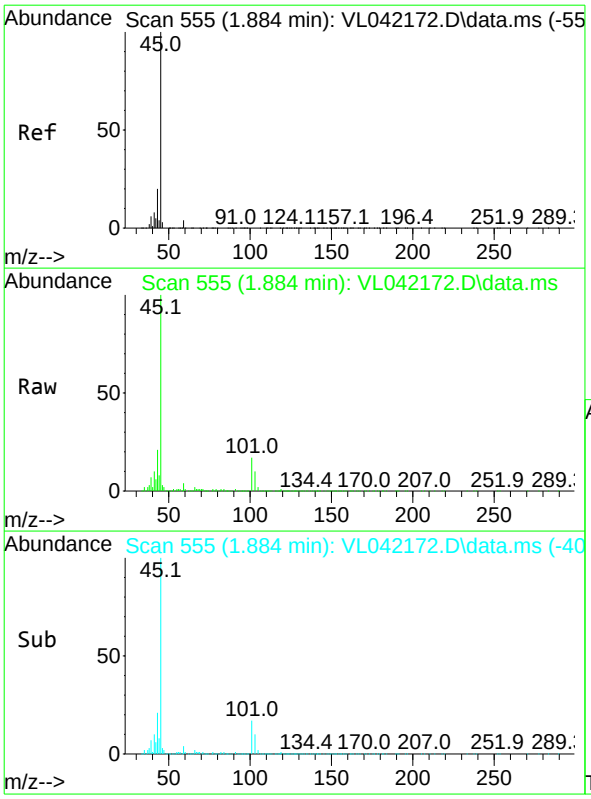



#18
1,1-Dichloroethene
Concen: 9.128 ppbv
RT: 2.030 min Scan# 600
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 96 Resp: 94236

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 209.5 | 167.6 | 251.4 |
| 98 | 66.9 | 53.5 | 80.3 |

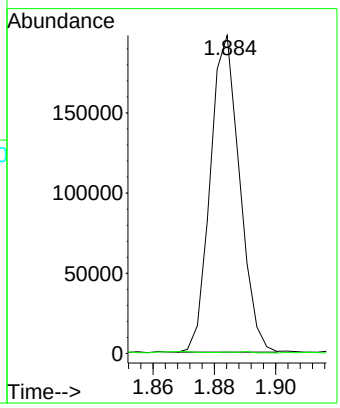





#19
Isopropyl Alcohol
Concen: 8.902 ppbv
RT: 1.884 min Scan# 55
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 45 Resp: 131359

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 46.1 | 36.9 | 55.3 |

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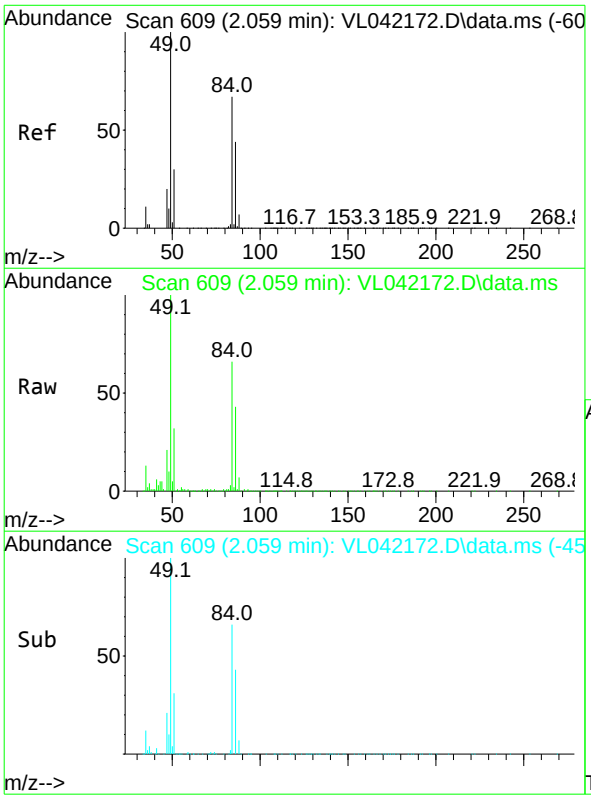
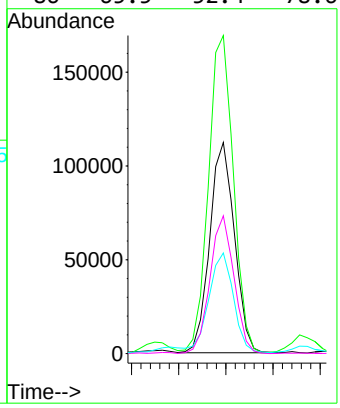
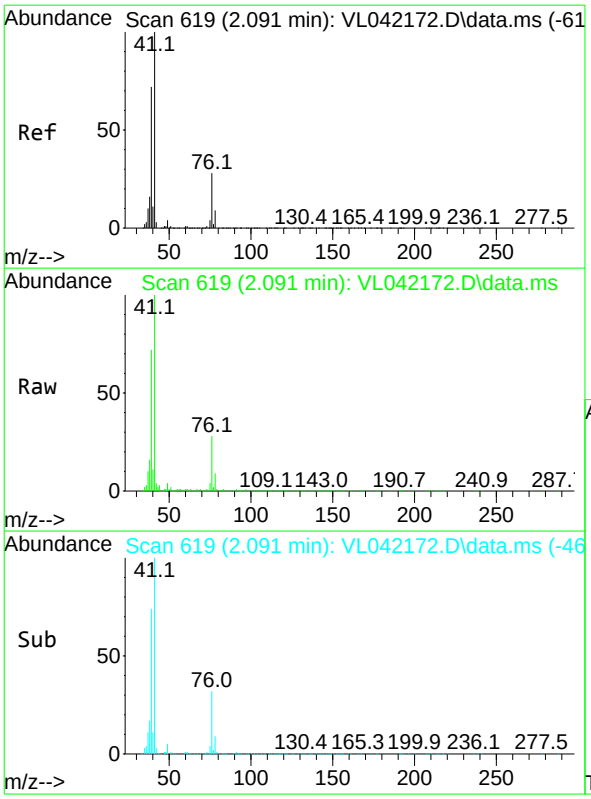



#20
Methylene Chloride
Concen: 8.401 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 84 Resp: 81828

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 150.3 | 120.2 | 180.4 |
| 51 | 46.7 | 37.4 | 56.0 |
| 86 | 65.5 | 52.4 | 78.6 |

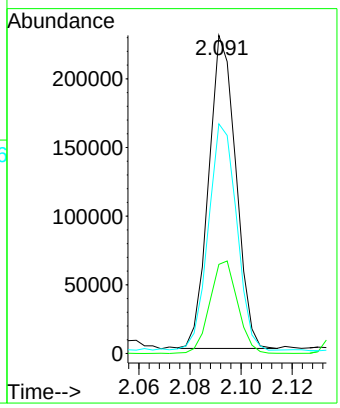





#21
Allyl Chloride
Concen: 9.141 ppbv
RT: 2.091 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 41 Resp: 168602

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 30.1 | 24.1 | 36.1 |
| 39 | 76.4 | 61.1 | 91.7 |

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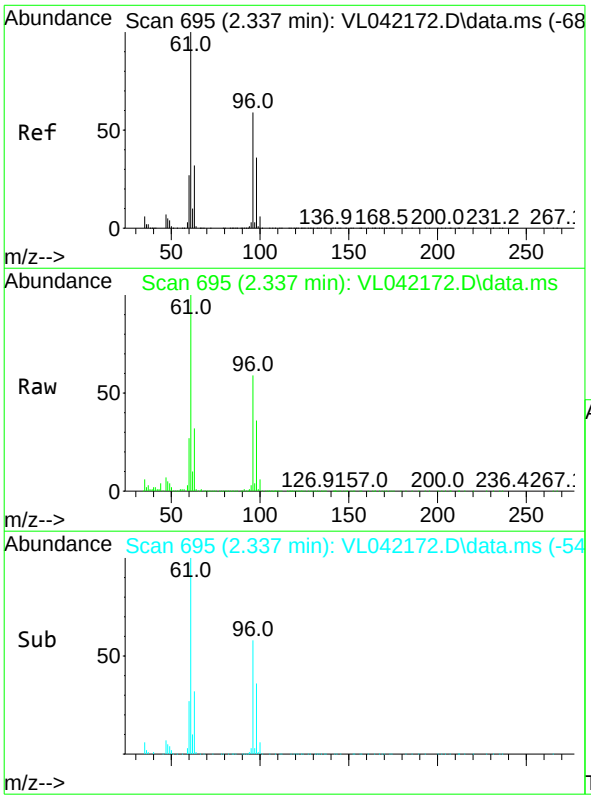
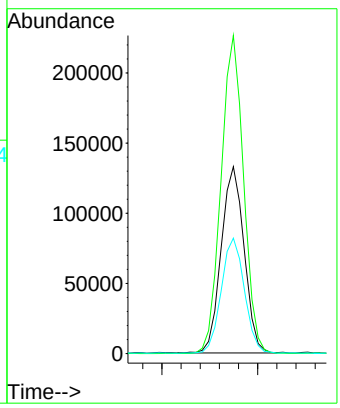
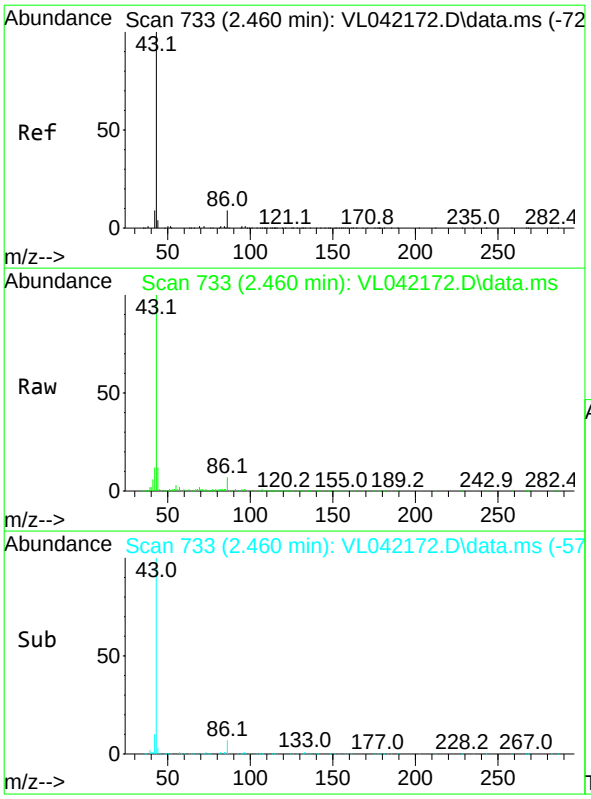



#22
trans-1,2-Dichloroethene
Concen: 9.149 ppbv
RT: 2.337 min Scan# 695
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 96 Resp: 110371

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 170.7 | 136.6 | 204.8 |
| 98 | 61.8 | 49.4 | 74.2 |

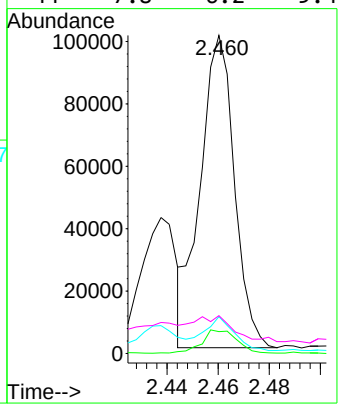





#23
Vinyl Acetate
Concen: 8.563 ppbv
RT: 2.460 min Scan# 73
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 43 Resp: 93080

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 6.9 | 5.5 | 8.3 |
| 42 | 10.8 | 8.6 | 13.0 |
| 44 | 7.8 | 6.2 | 9.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
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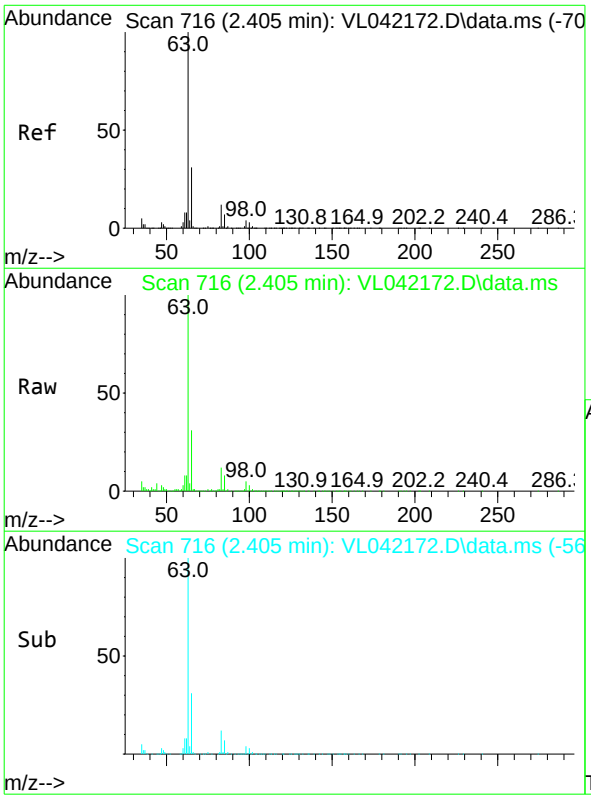
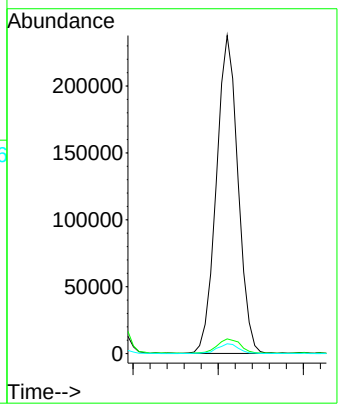
Supervised By :Mahesh Dadoda 04/03/2025

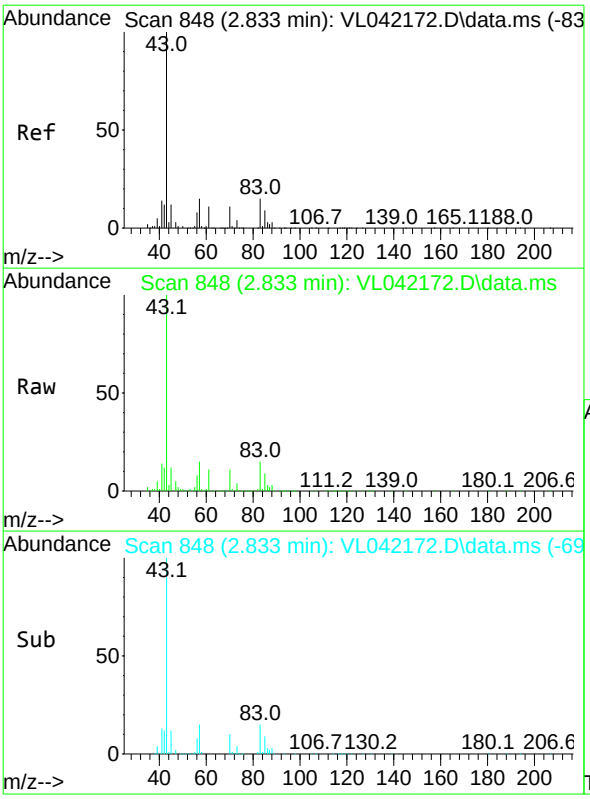



#24
1,1-Dichloroethane
Concen: 9.484 ppbv
RT: 2.405 min Scan# 716
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 63 Resp: 209753

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 4.5 | 2.3 | 6.8 |
| 100 | 3.1 | 1.6 | 4.7 |

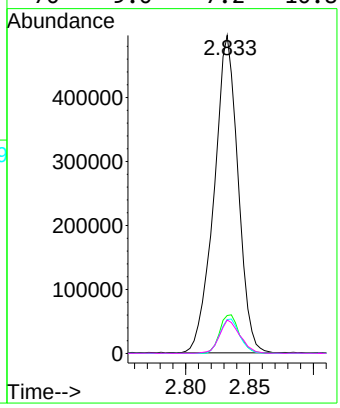





#25
Ethyl Acetate
Concen: 9.524 ppbv
RT: 2.833 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 43 Resp: 646501

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 10.2 | 8.2 | 12.2 |
| 61 | 9.1 | 7.3 | 10.9 |
| 70 | 9.0 | 7.2 | 10.8 |

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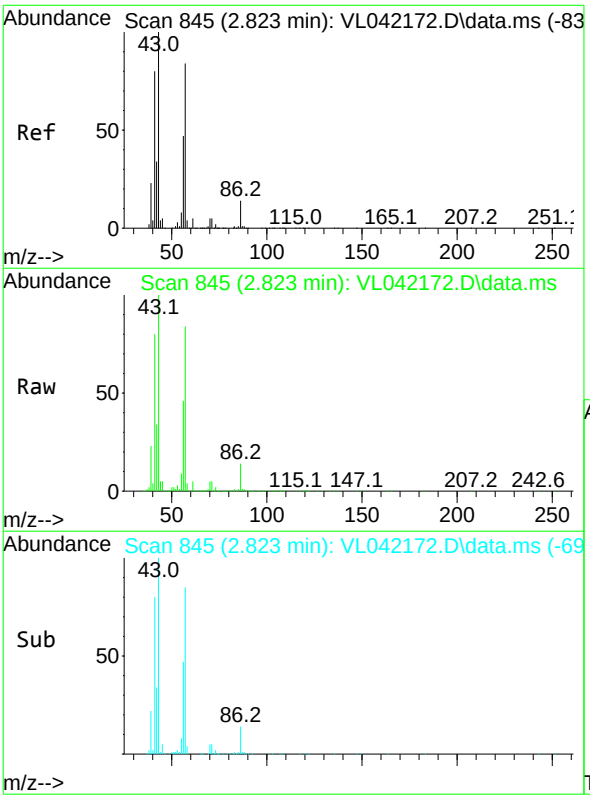
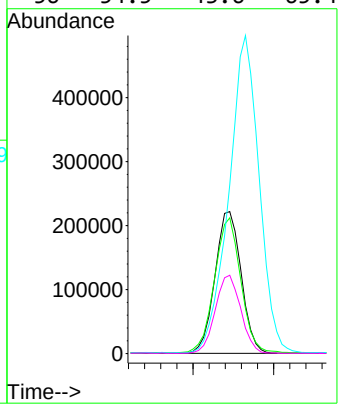
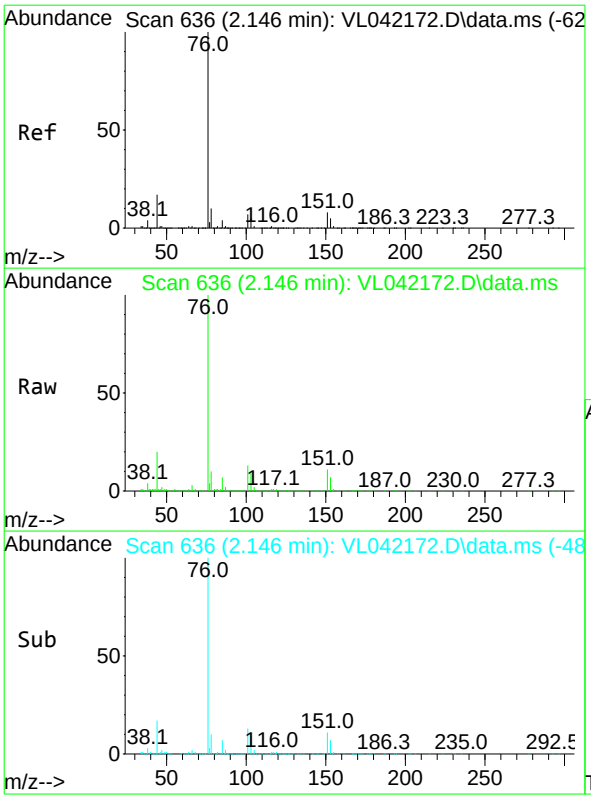



#26
Hexane
Concen: 9.510 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 57 Resp: 249331

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 95.7 | 76.6 | 114.8 |
| 43 | 259.8 | 207.8 | 311.8 |
| 56 | 54.5 | 43.6 | 65.4 |

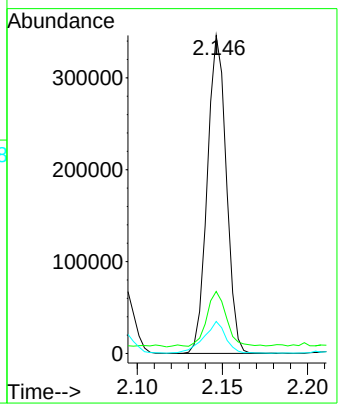





#27
Carbon Disulfide
Concen: 9.550 ppbv
RT: 2.146 min Scan# 63
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 76 Resp: 268507

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 18.4 | 14.7 | 22.1 |
| 78 | 11.6 | 9.3 | 13.9 |

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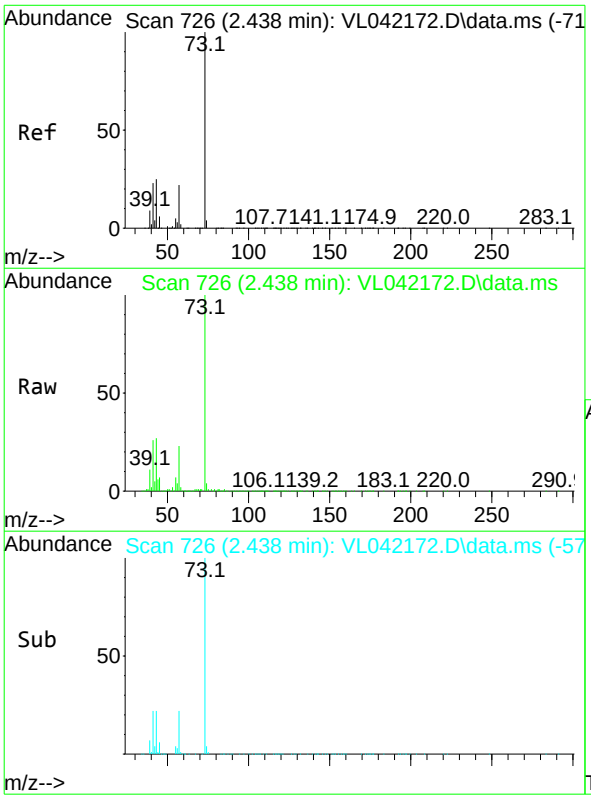
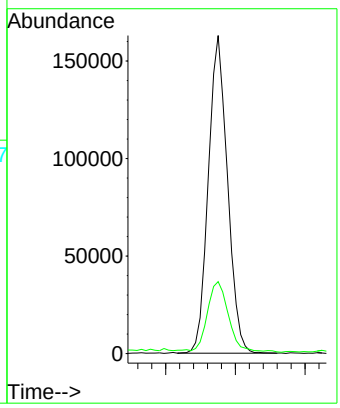
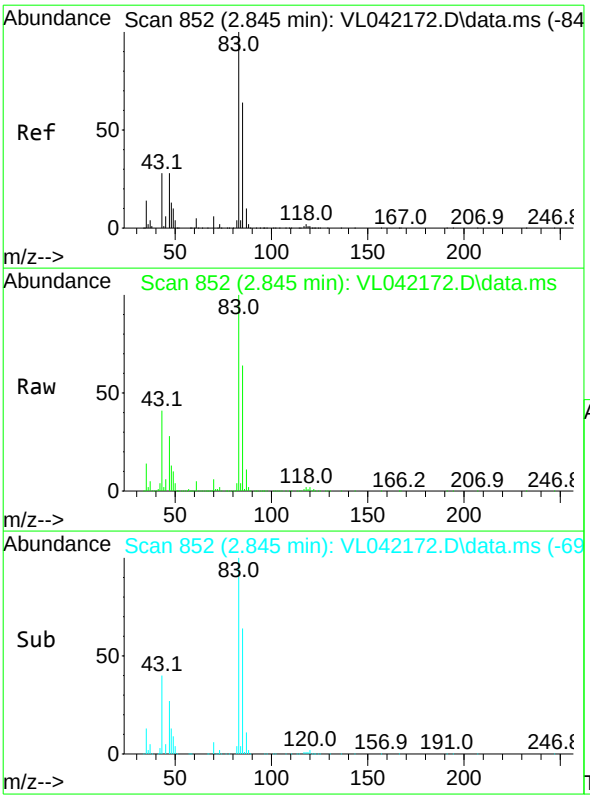



#28
Methyl tert-Butyl Ether
Concen: 9.520 ppbv
RT: 2.438 min Scan# 726
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 73 Resp: 155398

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 25.6 | 20.5 | 30.7 |

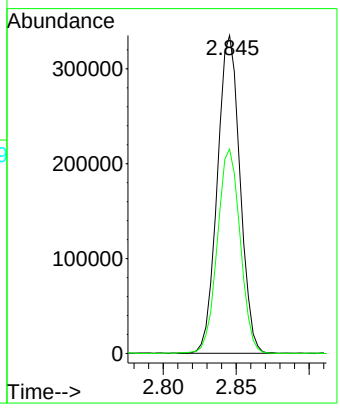





#29
Chloroform
Concen: 9.415 ppbv
RT: 2.845 min Scan# 85
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 83 Resp: 361264

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.3 | 51.4 | 77.2 |

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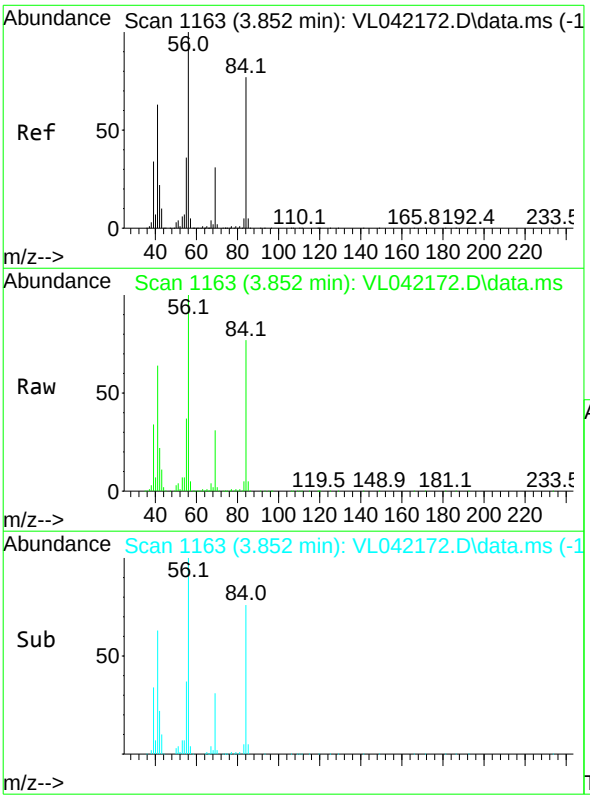
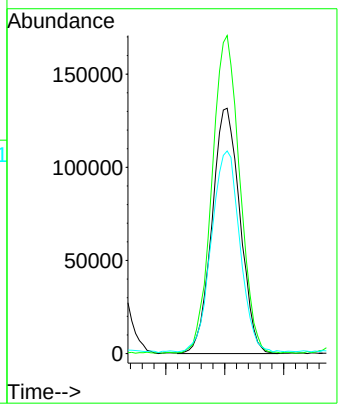
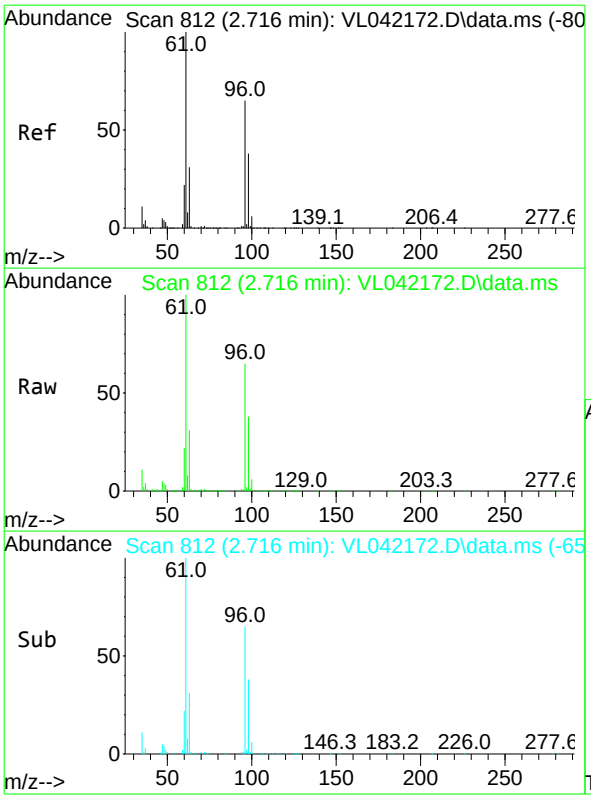



#30
Cyclohexane
Concen: 9.537 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 84 Resp: 217215

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 128.5 | 102.8 | 154.2 |
| 41 | 83.1 | 66.5 | 99.7 |

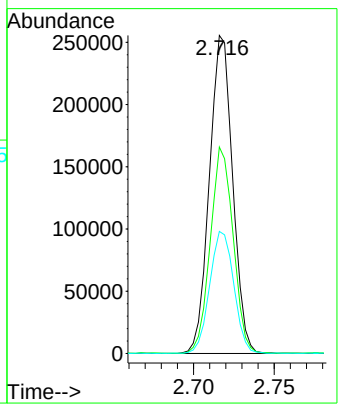





#31
cis-1,2-Dichloroethene
Concen: 9.634 ppbv
RT: 2.716 min Scan# 81
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 61 Resp: 256425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 64.8 | 51.8 | 77.8 |
| 98 | 38.3 | 30.6 | 46.0 |

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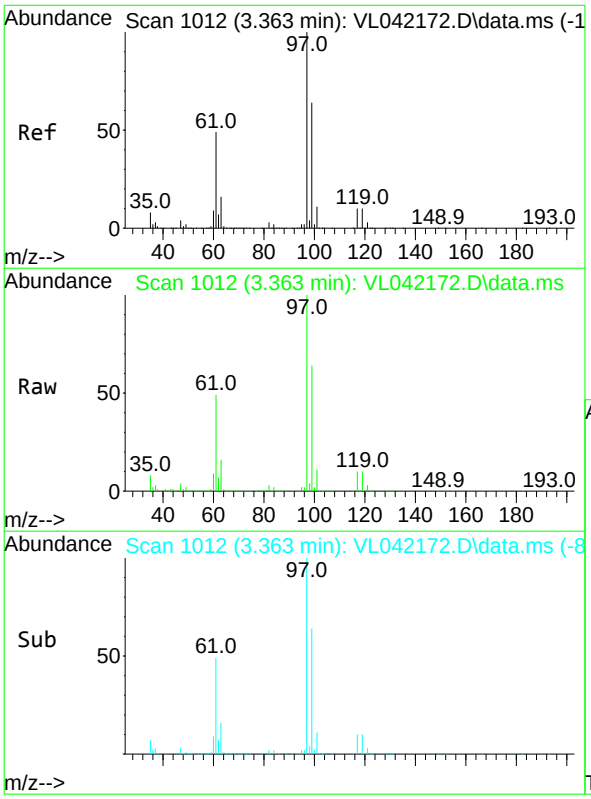
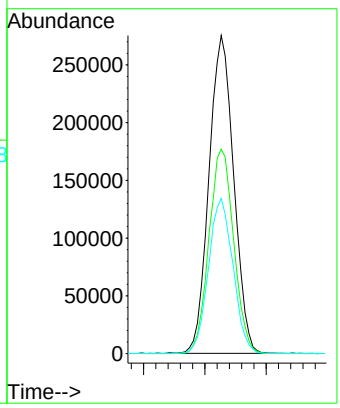
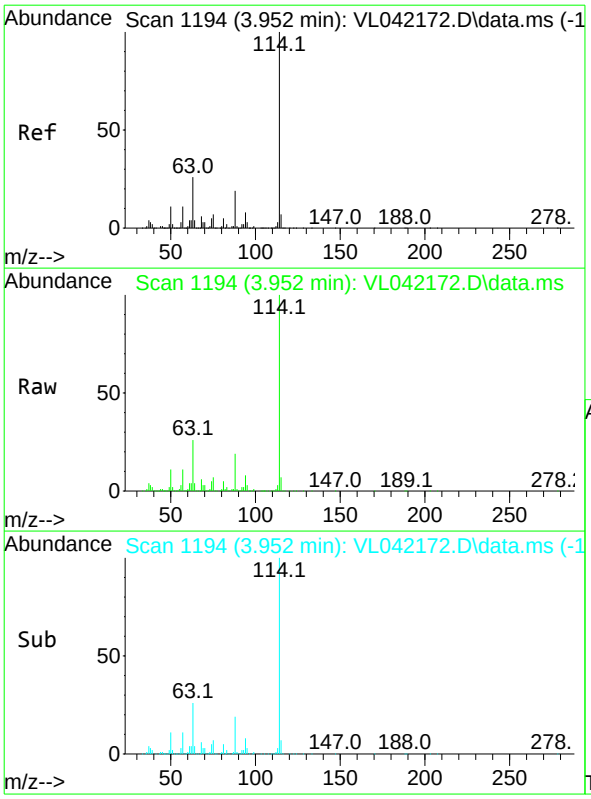



#32
1,1,1-Trichloroethane
Concen: 8.784 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 97 Resp: 385628

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.4 | 51.5 | 77.3 |
| 61 | 48.4 | 38.7 | 58.1 |

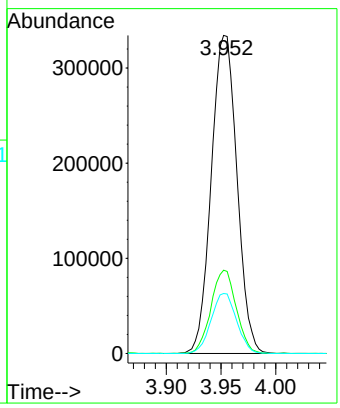





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:114 Resp: 545068

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.9 | 20.7 | 31.1 |
| 88 | 18.7 | 15.0 | 22.4 |

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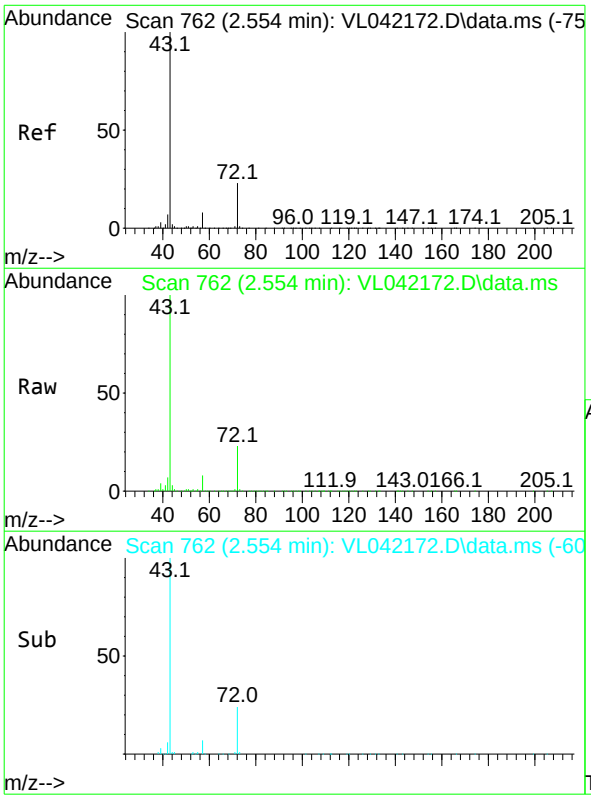
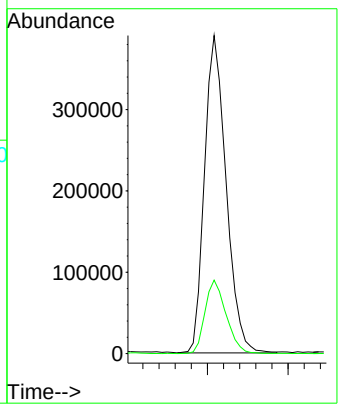
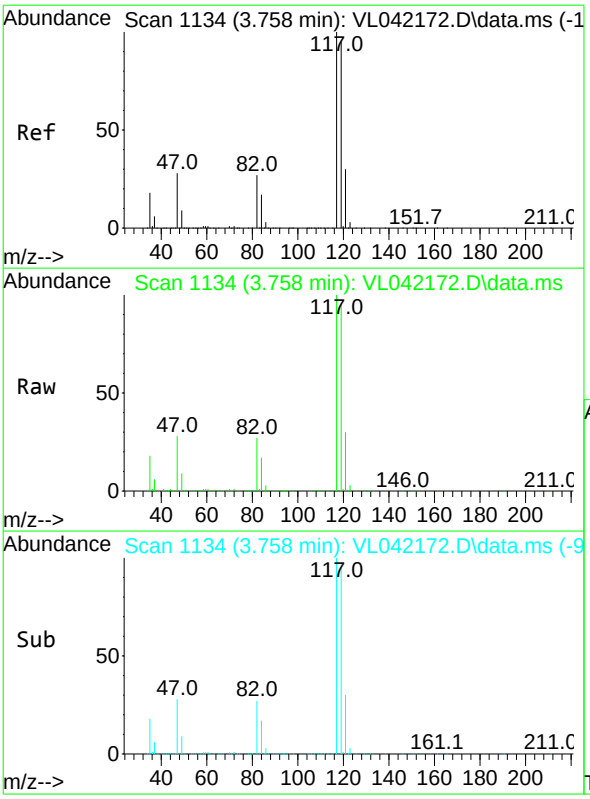



#34
2-Butanone
Concen: 9.203 ppbv
RT: 2.554 min Scan# 762
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 43 Resp: 363735

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 22.7 | 18.2 | 27.2 |

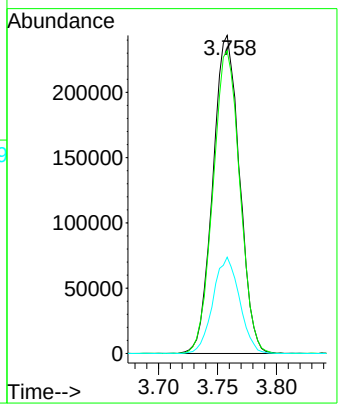





#35
Carbon Tetrachloride
Concen: 9.129 ppbv
RT: 3.758 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:117 Resp: 382925

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 95.2 | 76.2 | 114.2 |
| 121 | 30.3 | 24.2 | 36.4 |

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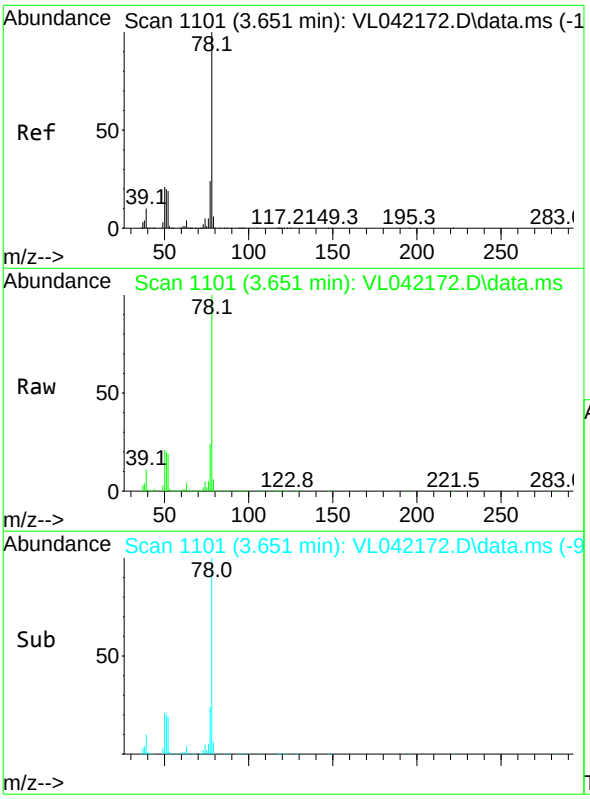
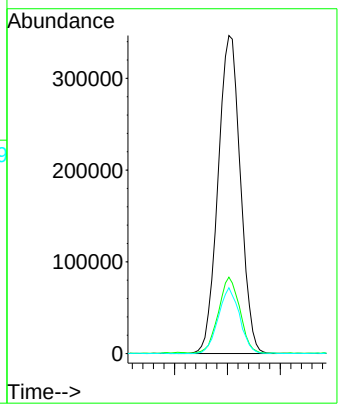
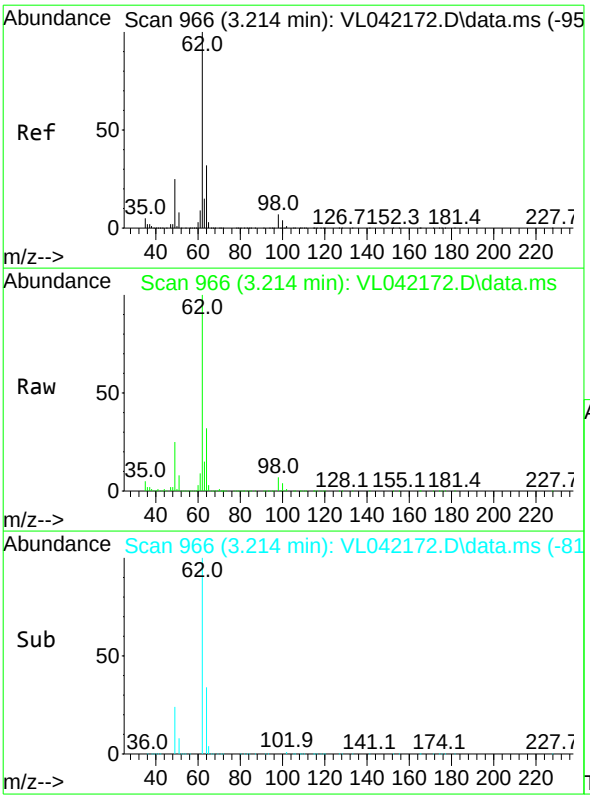



#36
Benzene
Concen: 9.417 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 78 Resp: 508860

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.9 | 19.1 | 28.7 |
| 50 | 20.7 | 16.6 | 24.8 |

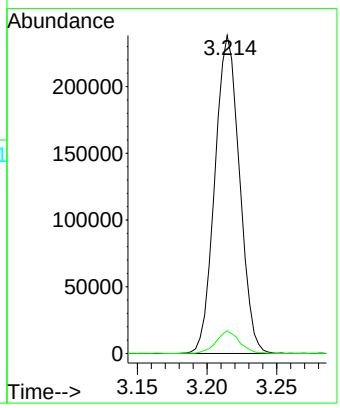





#37
1,2-Dichloroethane
Concen: 9.469 ppbv
RT: 3.214 min Scan# 96
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 62 Resp: 292937

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 6.8 | 5.4 | 8.2 |

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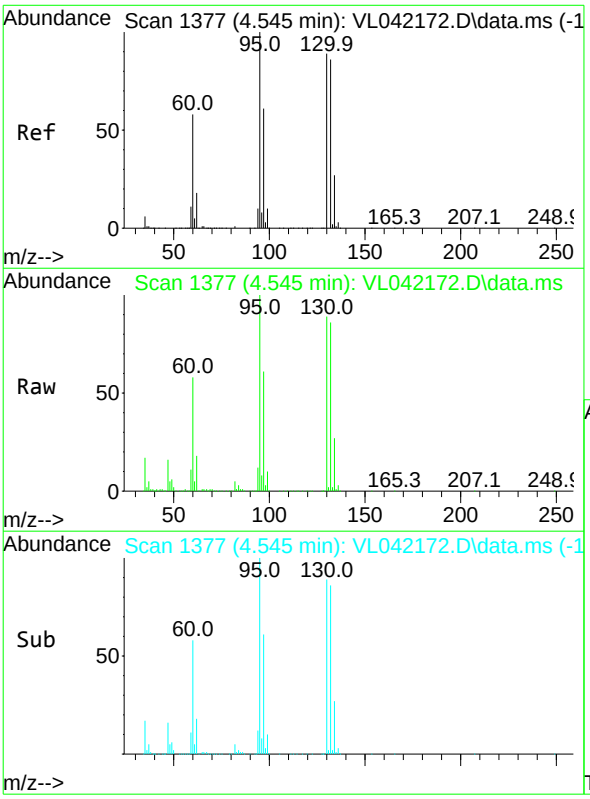
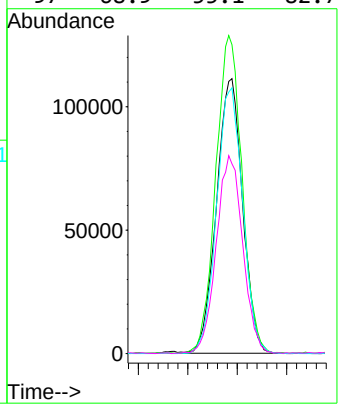
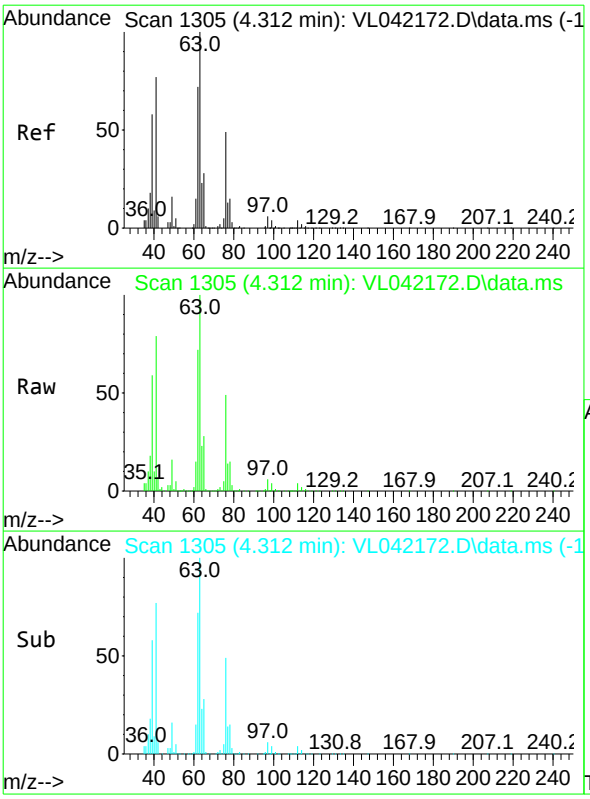



#38
Trichloroethene
Concen: 9.045 ppbv
RT: 4.545 min Scan# 1377
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:130 Resp: 204027

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 112.3 | 89.8 | 134.8 |
| 132 | 96.8 | 77.4 | 116.2 |
| 97 | 68.9 | 55.1 | 82.7 |

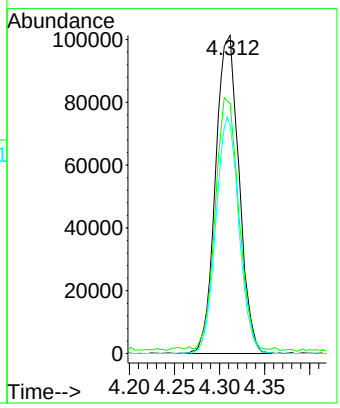





#39
1,2-Dichloropropane
Concen: 9.321 ppbv
RT: 4.312 min Scan# 13
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 63 Resp: 183439

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 77.1 | 61.7 | 92.5 |
| 62 | 72.0 | 57.6 | 86.4 |

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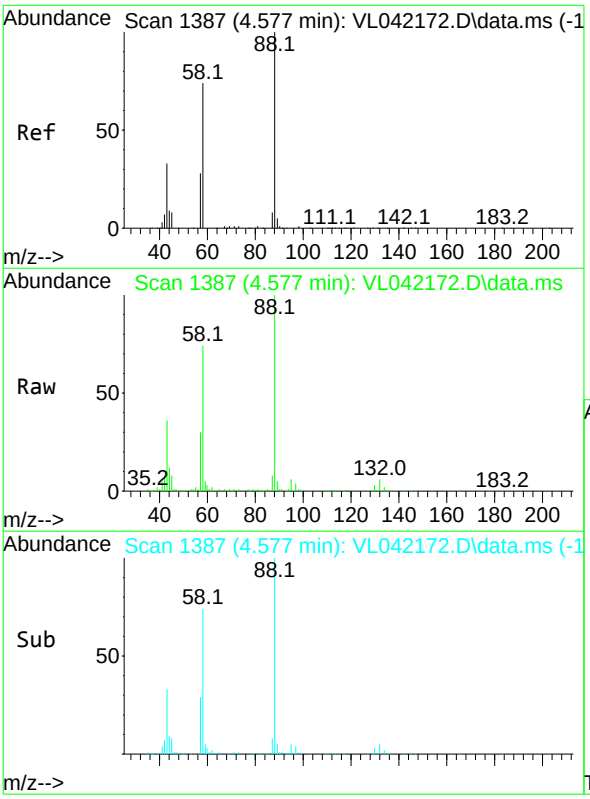
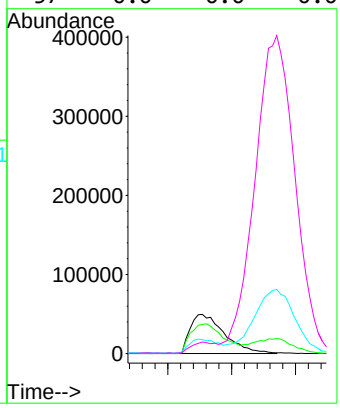
Supervised By :Mahesh Dadoda 04/03/2025

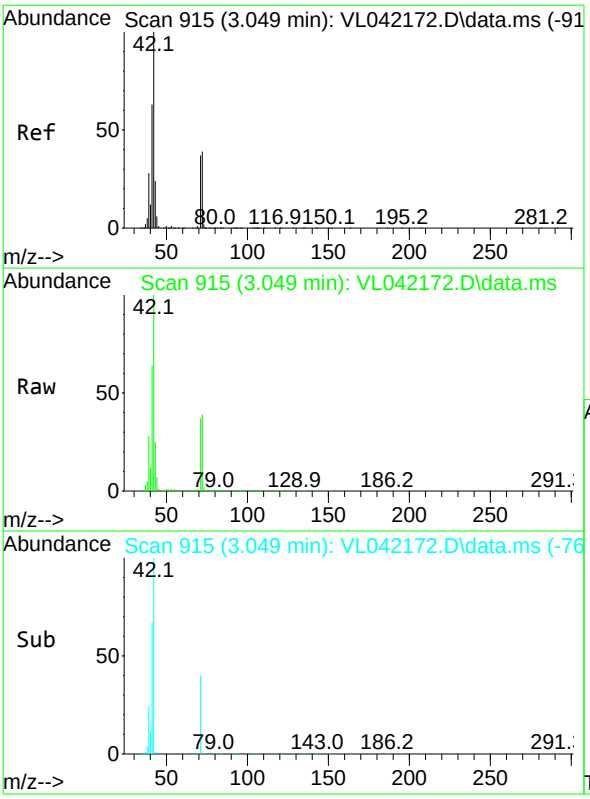



#40
1,4-Dioxane
Concen: 9.042 ppbv
RT: 4.577 min Scan# 1387
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 88 Resp: 92327

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 78.4 | 62.7 | 94.1 |
| 43 | 28.7 | 23.0 | 34.4 |
| 57 | 0.0 | 0.0 | 0.0 |

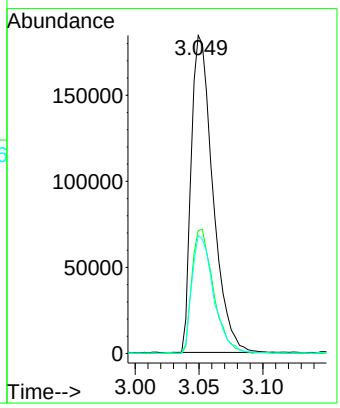





#41
Tetrahydrofuran
Concen: 9.643 ppbv
RT: 3.049 min Scan# 91
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 42 Resp: 216851

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 39.2 | 31.4 | 47.0 |
| 71 | 37.8 | 30.2 | 45.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

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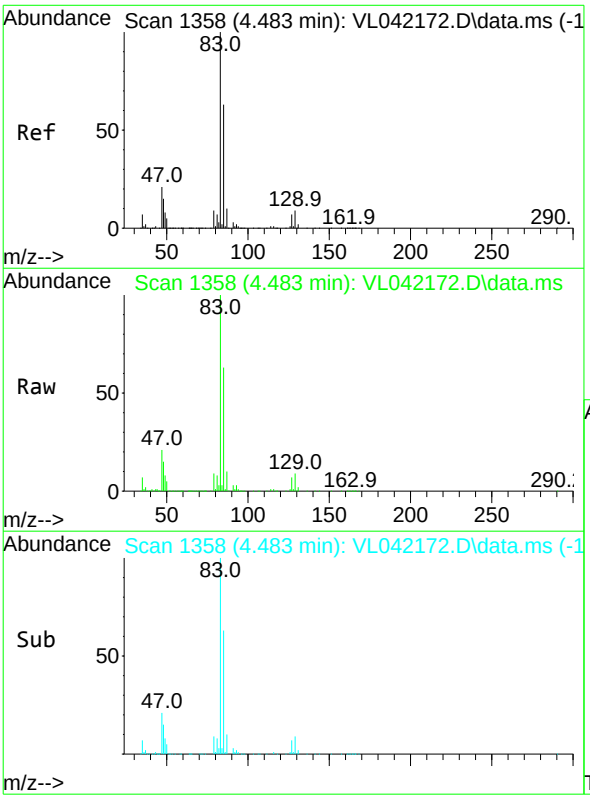
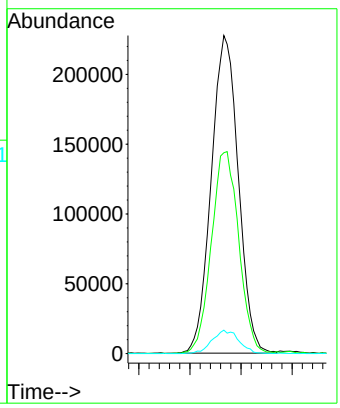
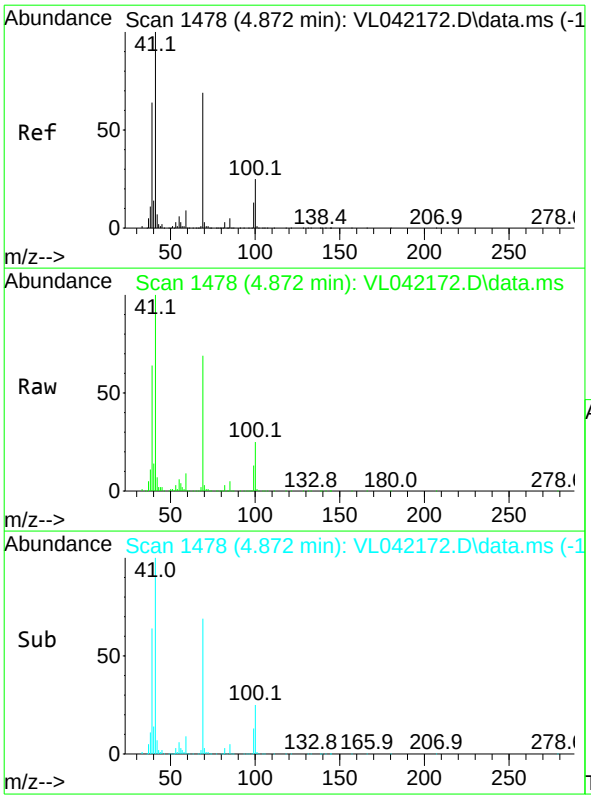



#42
Bromodichloromethane
Concen: 9.822 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 83 Resp: 418887

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.1 | 50.5 | 75.7 |
| 127 | 7.4 | 5.9 | 8.9 |

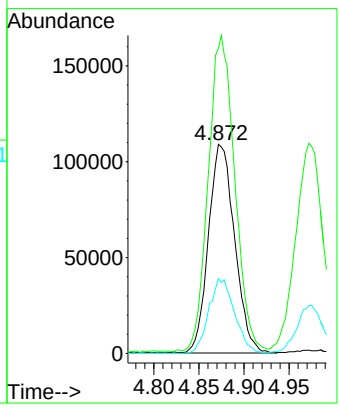





#43
Methyl Methacrylate
Concen: 9.618 ppbv
RT: 4.872 min Scan# 14
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 69 Resp: 219399

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 154.7 | 123.8 | 185.6 |
| 100 | 35.5 | 28.4 | 42.6 |

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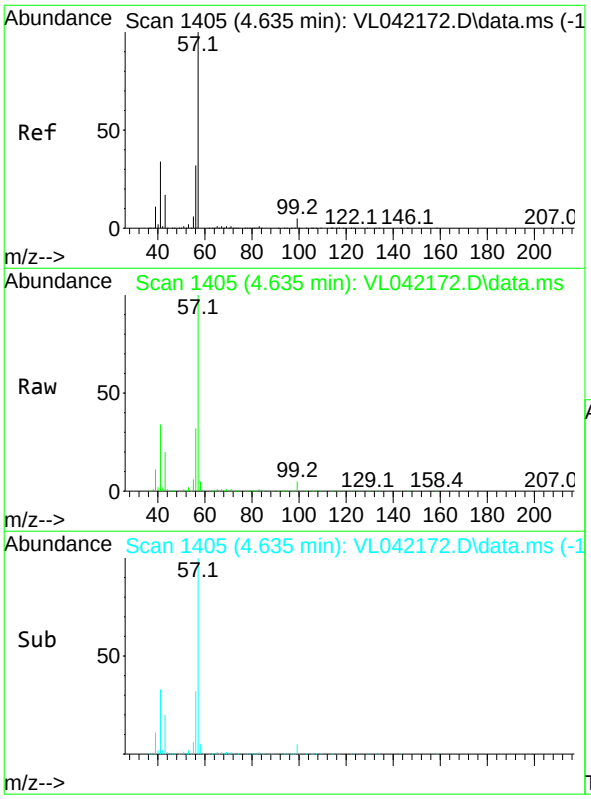
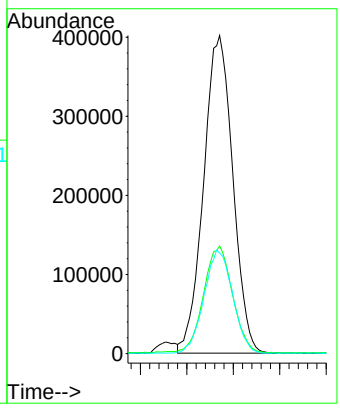
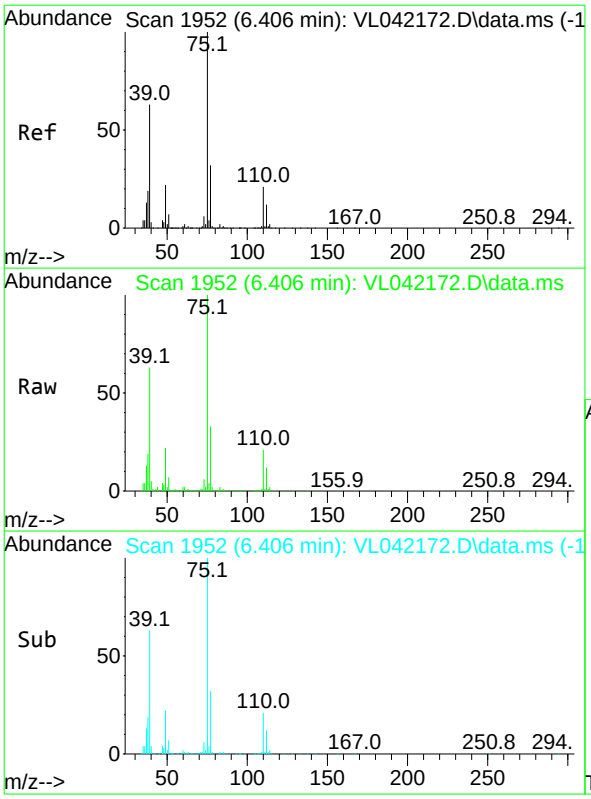



#44
2,2,4-Trimethylpentane
Concen: 9.600 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 57 Resp: 876649

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 33.5 | 26.8 | 40.2 |
| 56 | 32.0 | 25.6 | 38.4 |

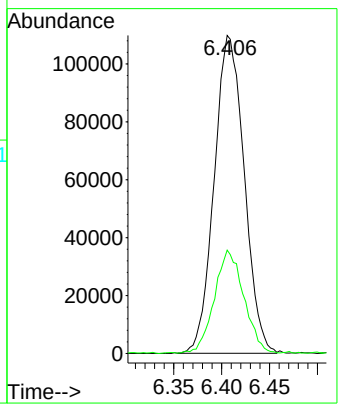





#45
t-1,3-Dichloropropene
Concen: 9.746 ppbv
RT: 6.406 min Scan# 19
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 75 Resp: 239180

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.5 | 26.0 | 39.0 |

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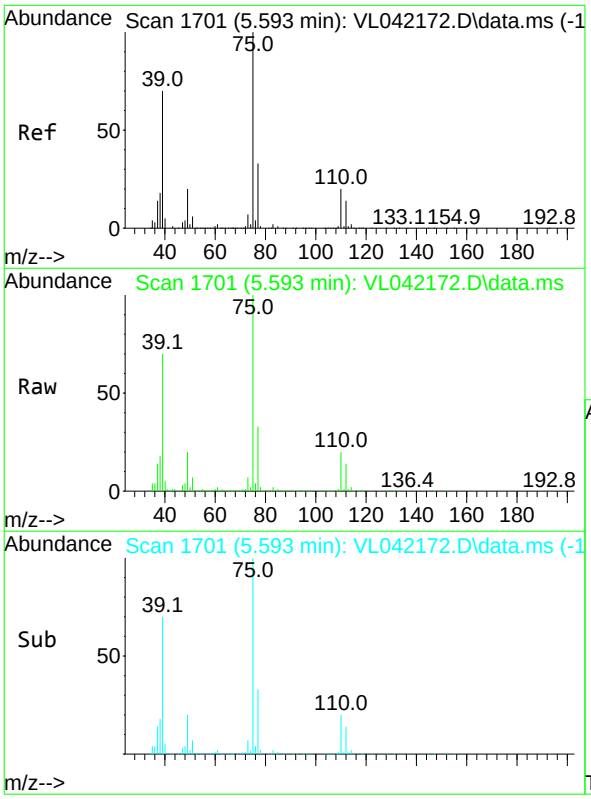
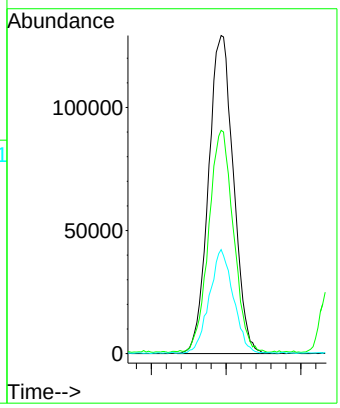
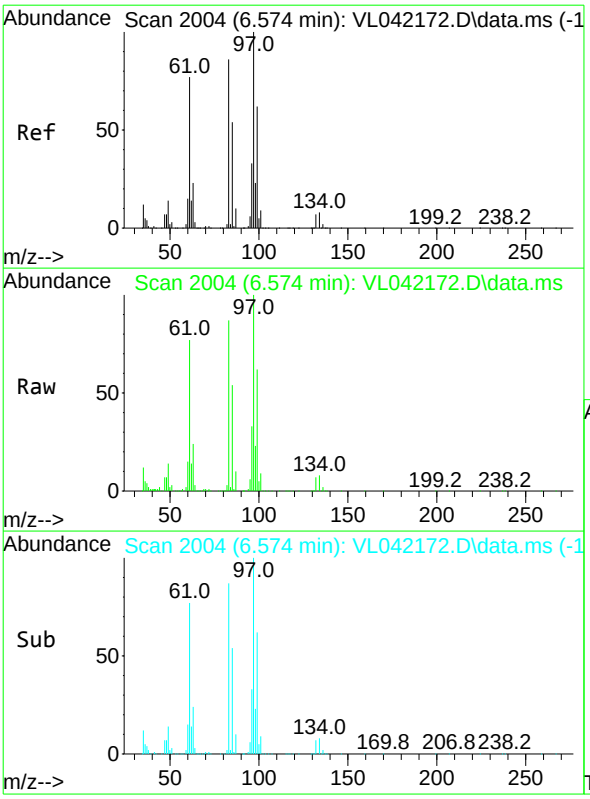



#46
cis-1,3-Dichloropropene
Concen: 9.973 ppbv
RT: 5.593 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 75 Resp: 300021

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 39 | 69.7 | 55.8 | 83.6 |
| 77 | 32.5 | 26.0 | 39.0 |

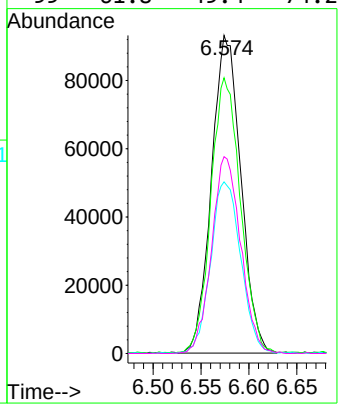





#47
1,1,2-Trichloroethane
Concen: 9.526 ppbv
RT: 6.574 min Scan# 20
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 97 Resp: 198176

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 86.5 | 69.2 | 103.8 |
| 85 | 53.9 | 43.1 | 64.7 |
| 99 | 61.8 | 49.4 | 74.2 |

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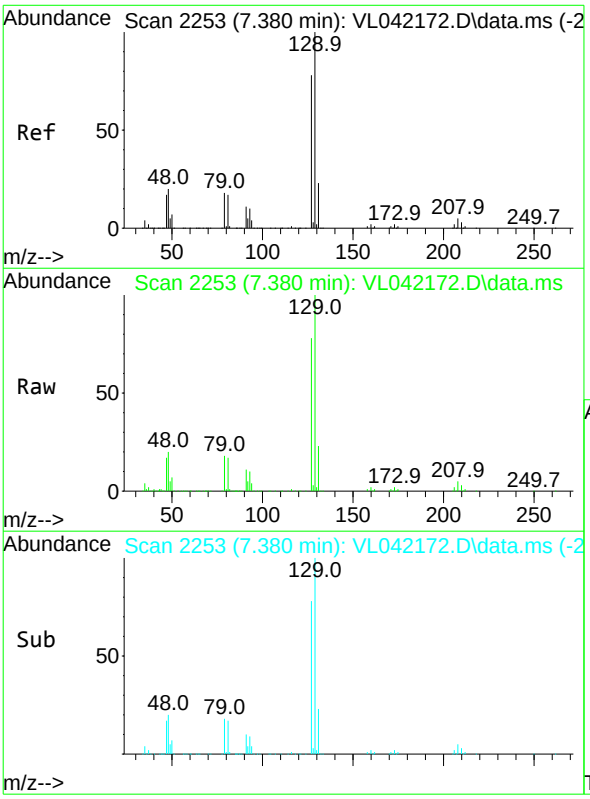
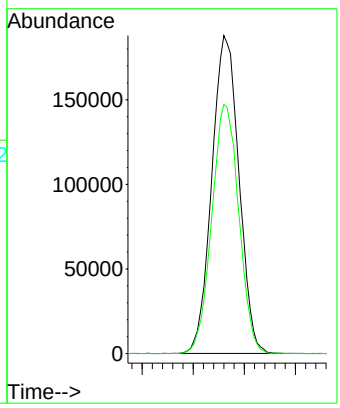
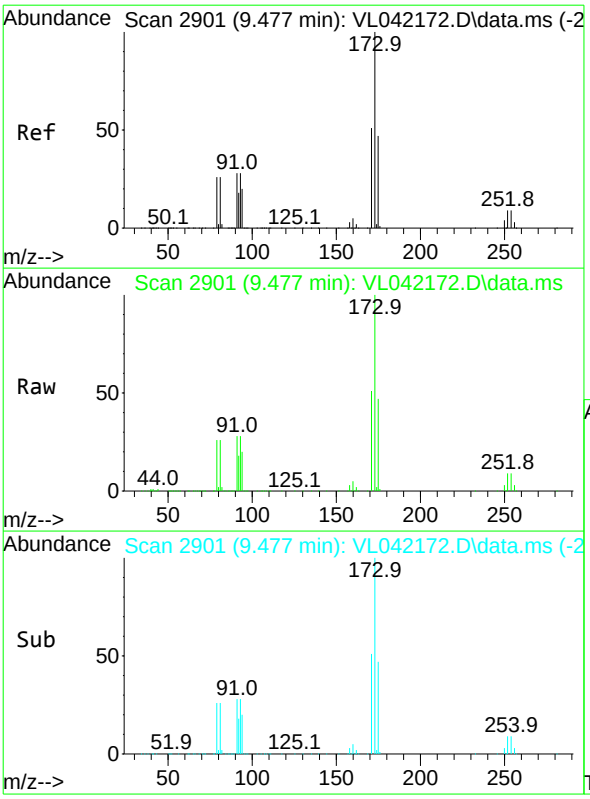



#48
Dibromochloromethane
Concen: 9.828 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:129 Resp: 346499

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.1 | 39.1 | 117.2 |

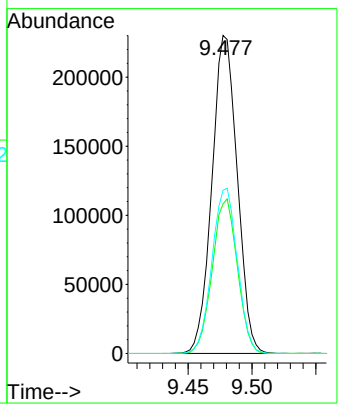





#49
Bromoform
Concen: 10.021 ppbv
RT: 9.477 min Scan# 29
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:173 Resp: 317189

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.2 | 38.6 | 57.8 |
| 171 | 52.2 | 41.8 | 62.6 |

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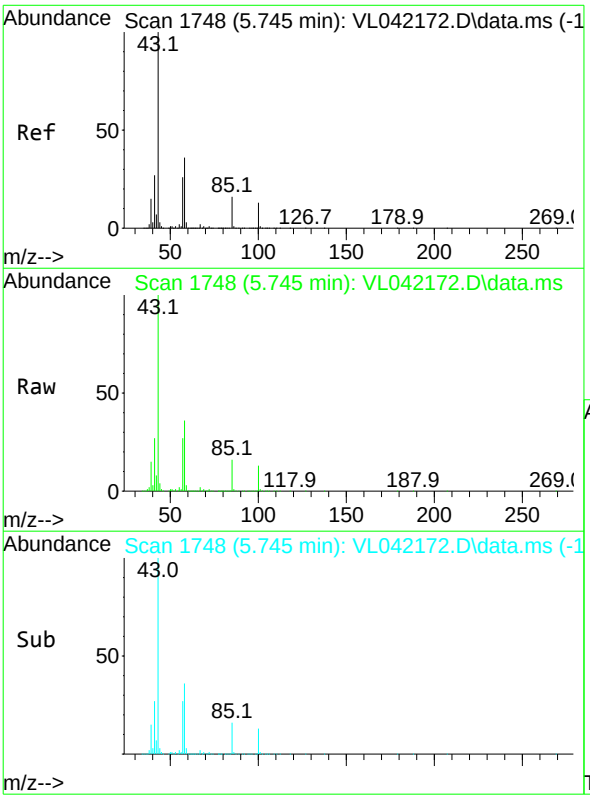
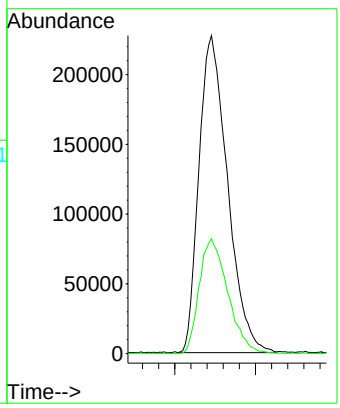
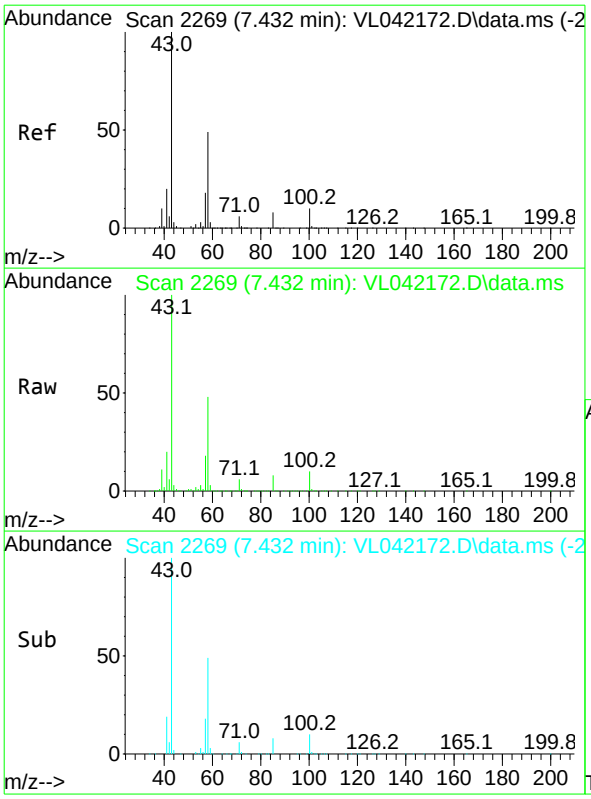



#50
4-Methyl-2-Pentanone
Concen: 8.934 ppbv
RT: 5.745 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 43 Resp: 559800

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 36.3 | 29.0 | 43.6 |

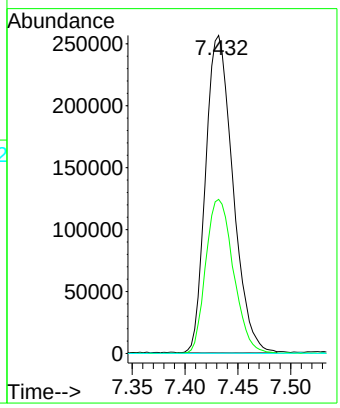





#51
2-Hexanone
Concen: 8.848 ppbv
RT: 7.432 min Scan# 22
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 43 Resp: 460013

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 49.6 | 39.7 | 59.5 |
| 98 | 0.1 | 0.1 | 0.1# |

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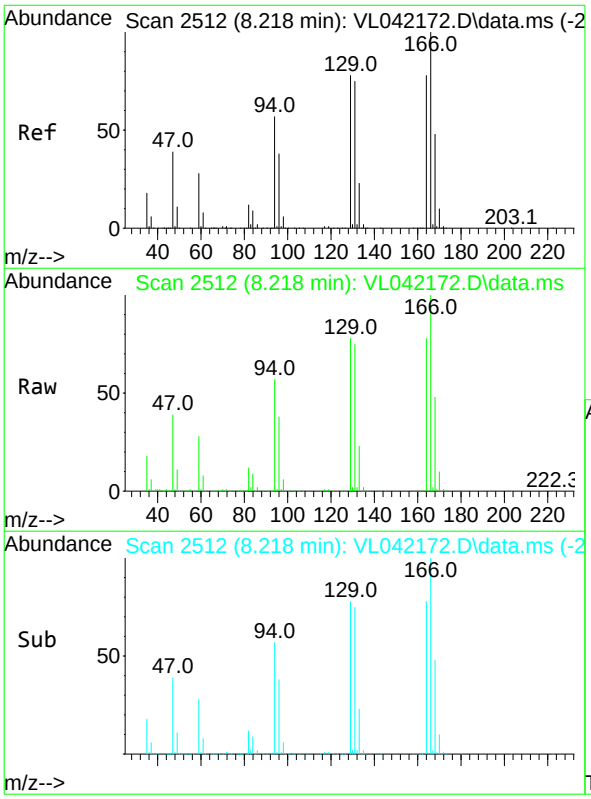
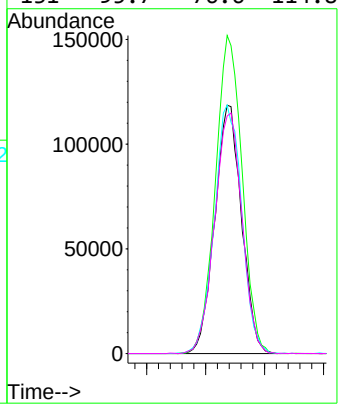
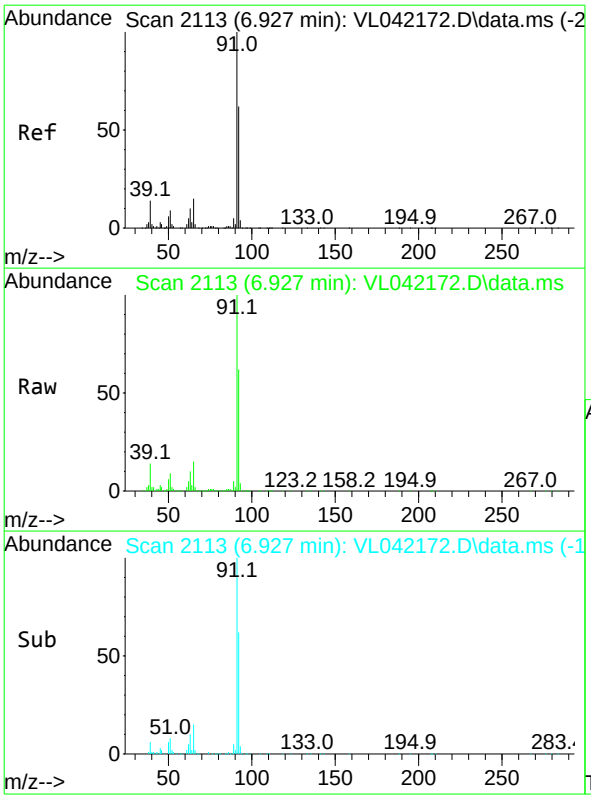



#52
Tetrachloroethene
Concen: 8.722 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:164 Resp: 186912

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 128.1 | 102.5 | 153.7 |
| 129 | 99.8 | 79.8 | 119.8 |
| 131 | 95.7 | 76.6 | 114.8 |

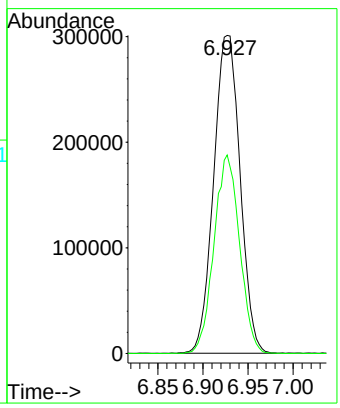





#53
Toluene
Concen: 9.576 ppbv
RT: 6.927 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 91 Resp: 613378

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 60.5 | 48.4 | 72.6 |

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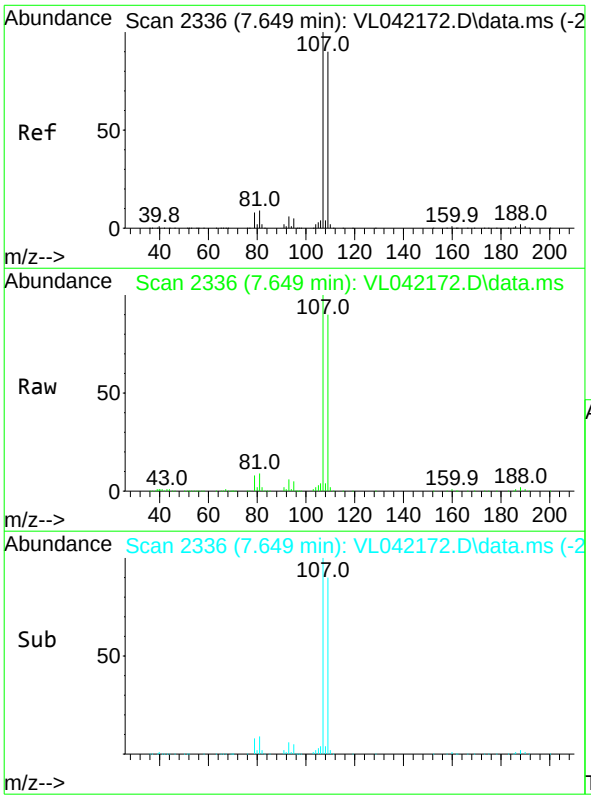
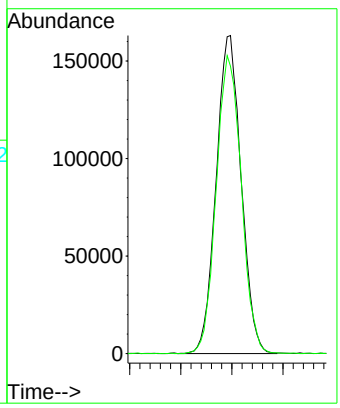
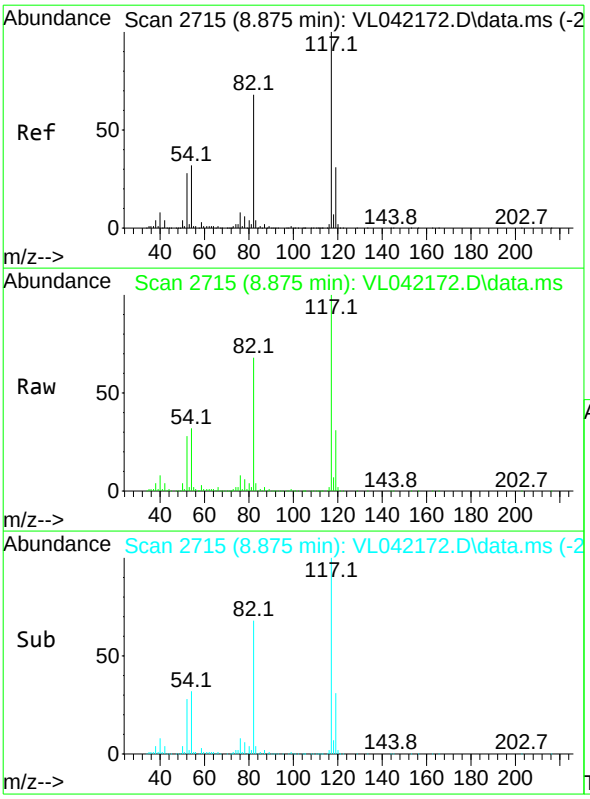



#54
1,2-Dibromoethane
Concen: 9.536 ppbv
RT: 7.649 min Scan# 2336
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:107 Resp: 276797

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 90.3 | 72.2 | 108.4 |

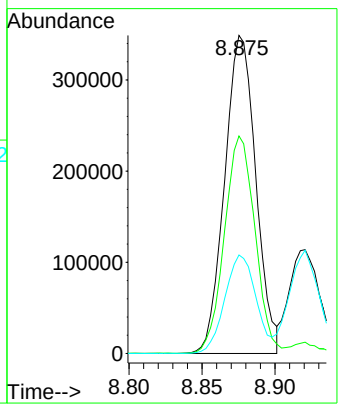





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 27
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:117 Resp: 519536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 69.7 | 55.8 | 83.6 |
| 119 | 31.9 | 25.5 | 38.3 |

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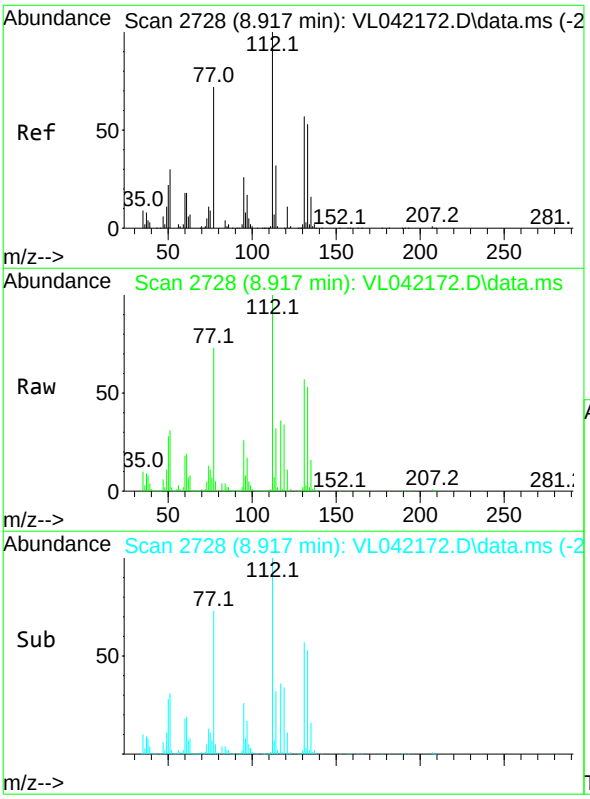
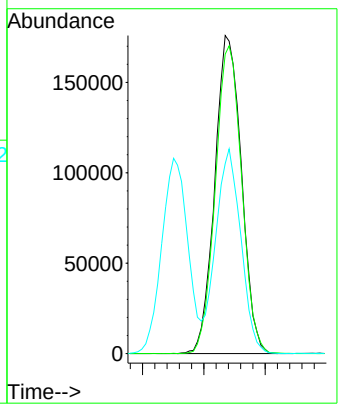
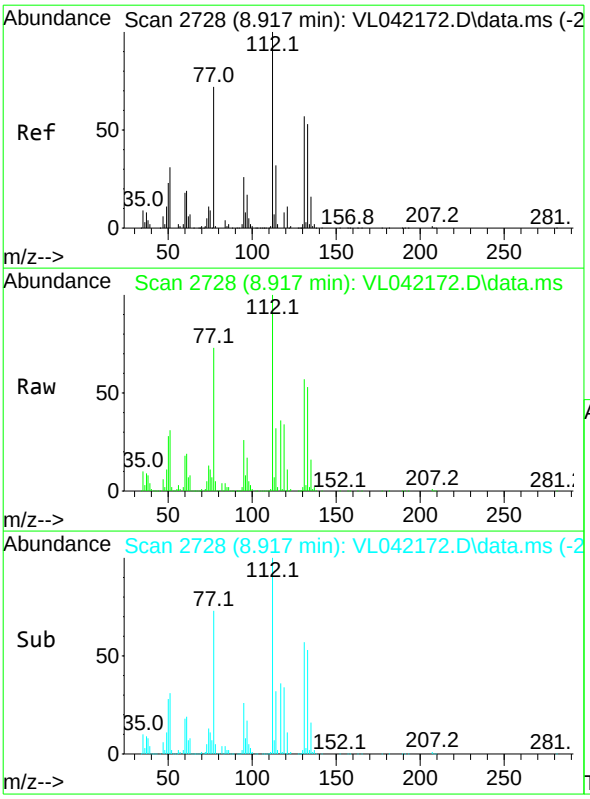



#56
1,1,1,2-Tetrachloroethane
Concen: 9.268 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:131 Resp: 265037

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.7 | 76.6 | 114.8 |
| 119 | 62.2 | 49.8 | 74.6 |

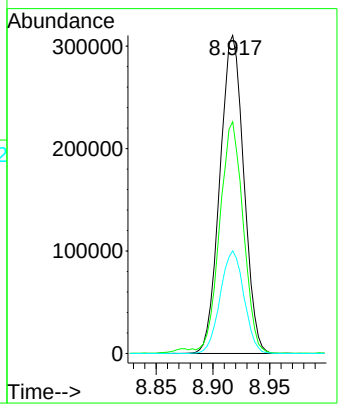





#57
Chlorobenzene
Concen: 9.223 ppbv
RT: 8.917 min Scan# 27
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:112 Resp: 454511

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 72.7 | 58.2 | 87.2 |
| 114 | 32.3 | 29.1 | 35.5 |

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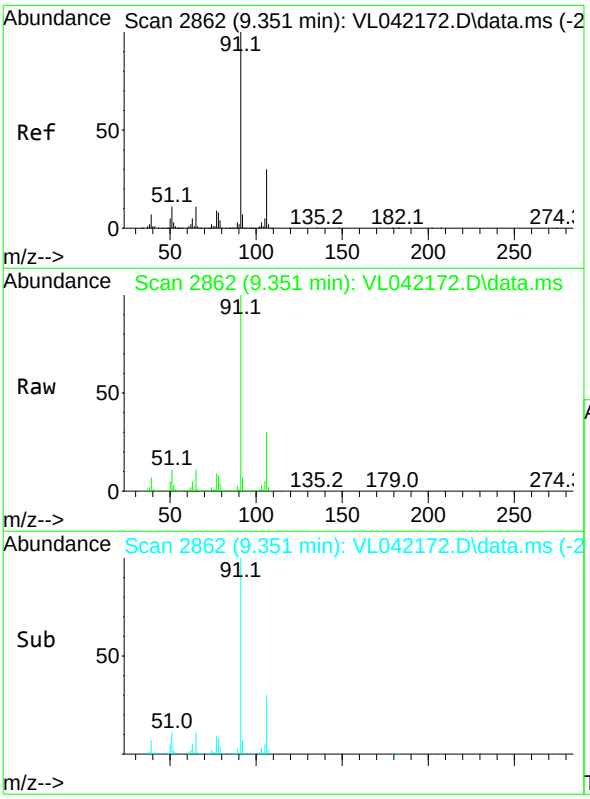
MSVOA_L
**ClientSampleId :**
VSTDICCC010

**Manual Integrations**
**APPROVED**

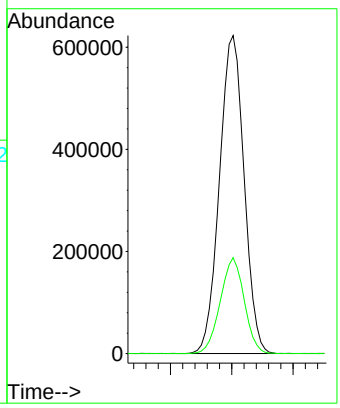
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

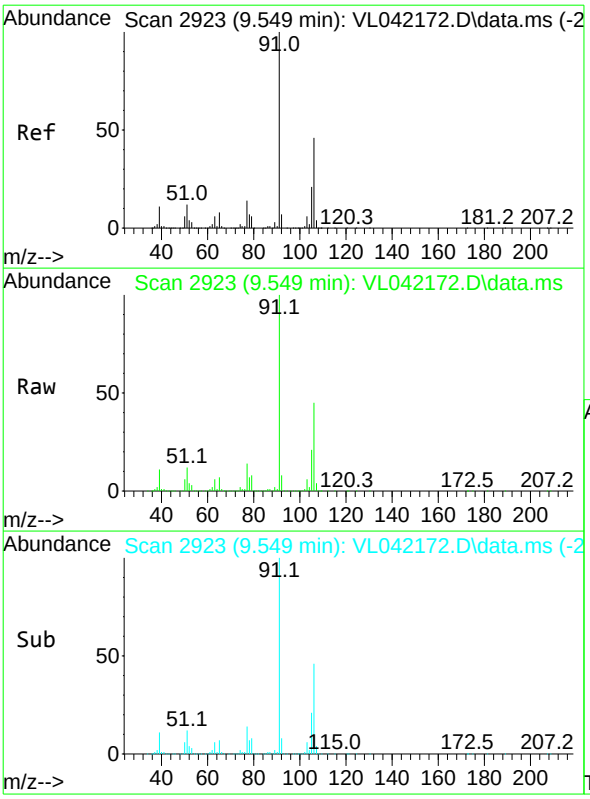



#58
Ethyl Benzene
Concen: 9.406 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 91 Resp: 868003

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.2 | 24.2 | 36.2 |

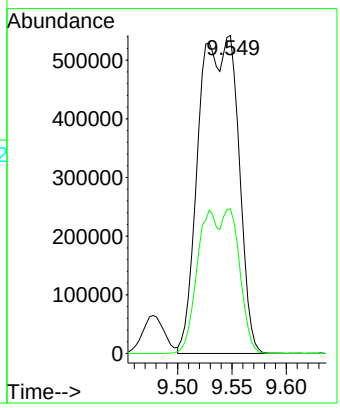





#59
m/p-Xylene
Concen: 18.607 ppbv m
RT: 9.549 min Scan# 29
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 91 Resp: 1372806

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 45.5 | 36.4 | 54.6 |

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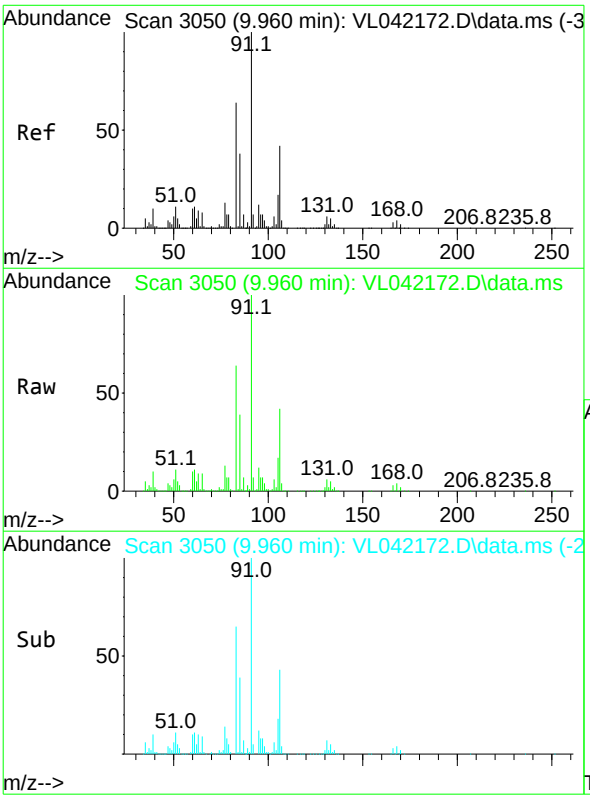
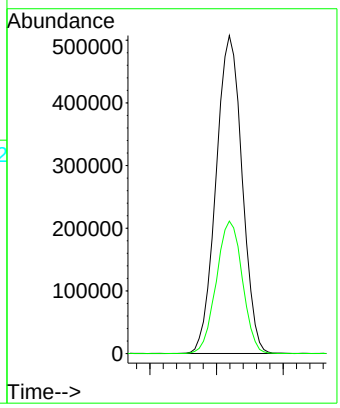
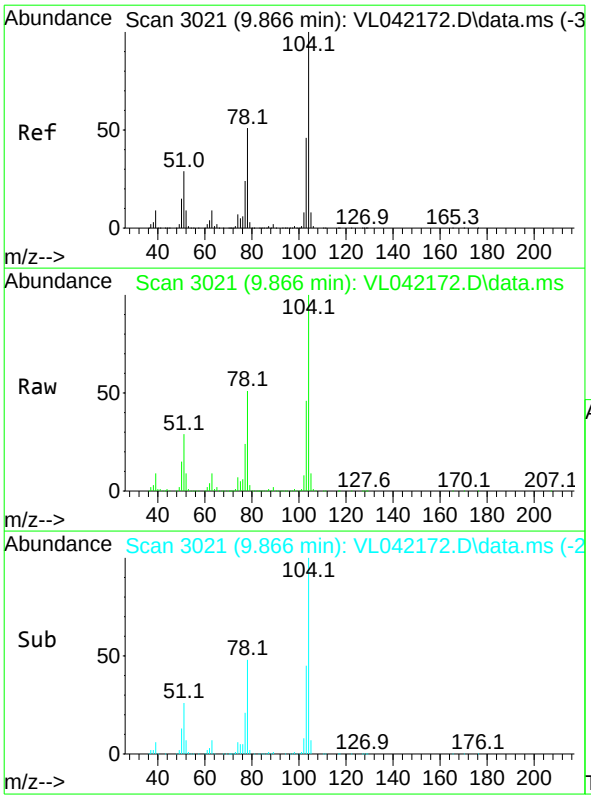



#60
o-Xylene
Concen: 9.340 ppbv
RT: 9.960 min Scan# 3050
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 91 Resp: 689933

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 41.7 | 20.8 | 62.5 |

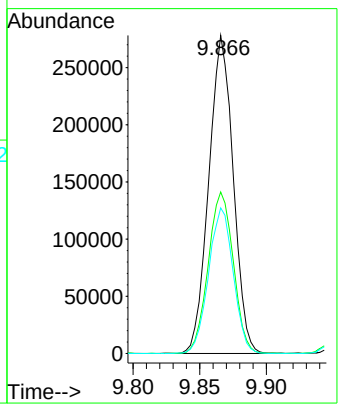





#61
Styrene
Concen: 9.706 ppbv
RT: 9.866 min Scan# 30
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:104 Resp: 354697

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 52.2 | 41.8 | 62.6 |
| 103 | 46.2 | 37.0 | 55.4 |

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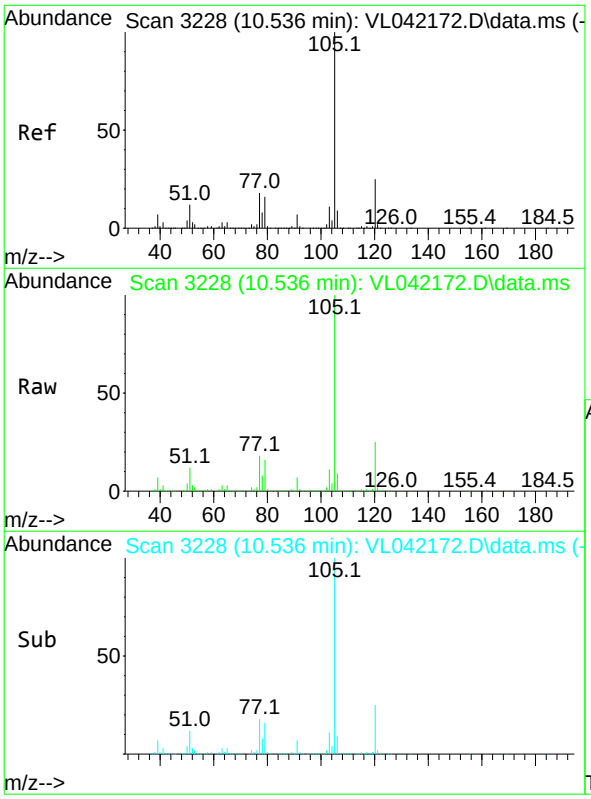
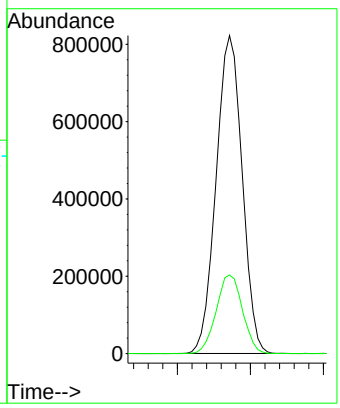
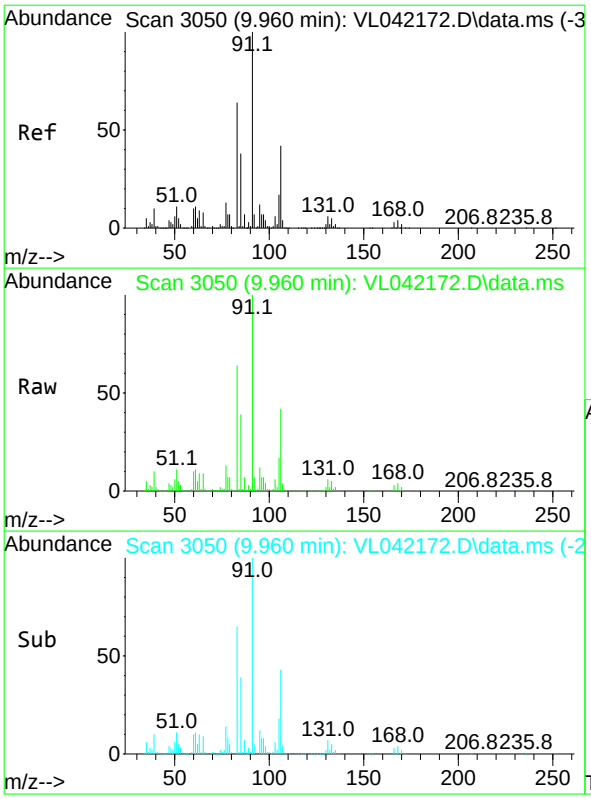



#62
Isopropylbenzene
Concen: 9.227 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:105 Resp: 1019255

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 24.9 | 19.9 | 29.9 |

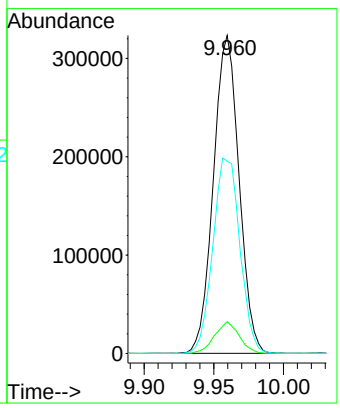





#63
1,1,2,2-Tetrachloroethane
Concen: 9.210 ppbv
RT: 9.960 min Scan# 30
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 83 Resp: 413392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.6 | 4.8 | 14.4 |
| 85 | 65.0 | 32.5 | 97.5 |

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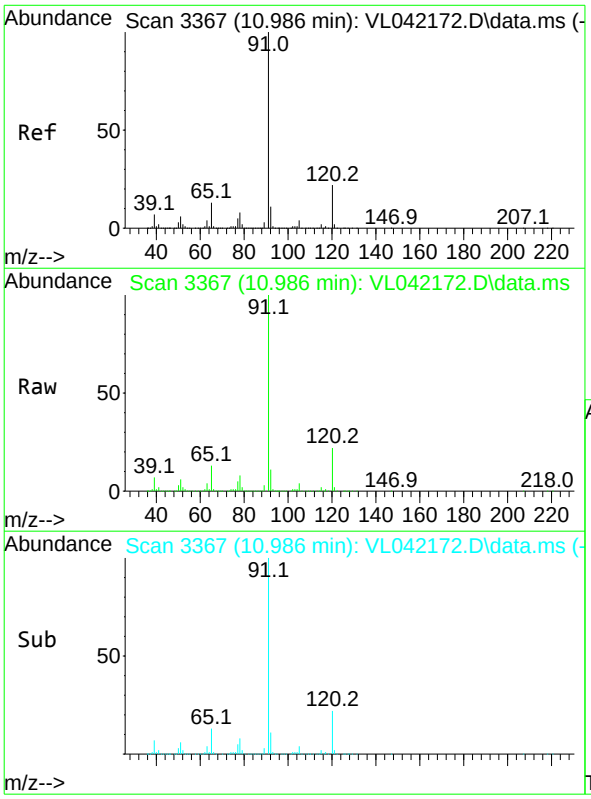
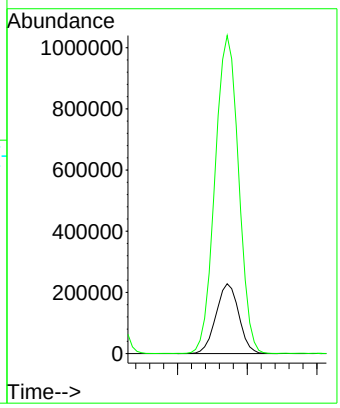
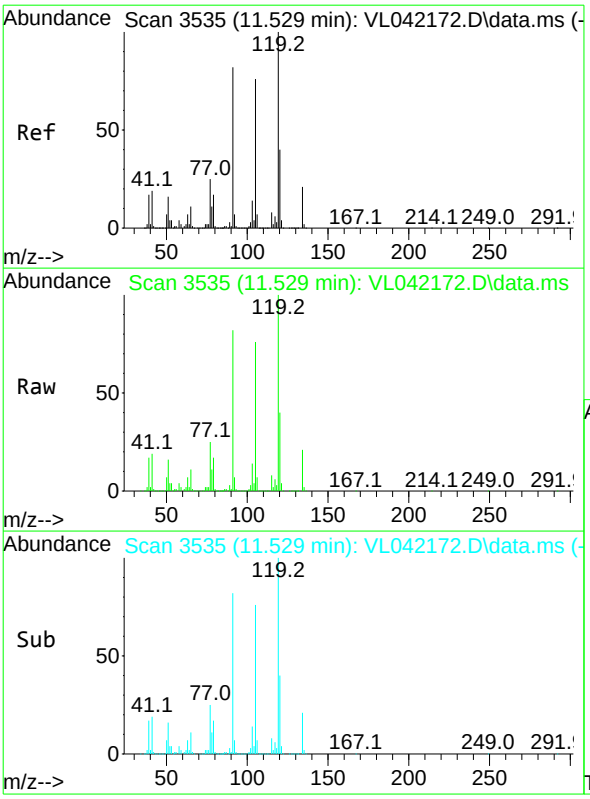



#64
n-propylbenzene
Concen: 9.122 ppbv
RT: 10.986 min Scan# 3367
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:120 Resp: 259405

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 471.1 | 376.9 | 565.3 |

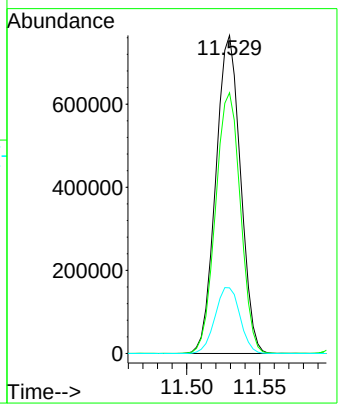





#65
tert-Butylbenzene
Concen: 8.828 ppbv
RT: 11.529 min Scan# 35
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:119 Resp: 901951

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 82.5 | 66.0 | 99.0 |
| 134 | 20.9 | 16.7 | 25.1 |

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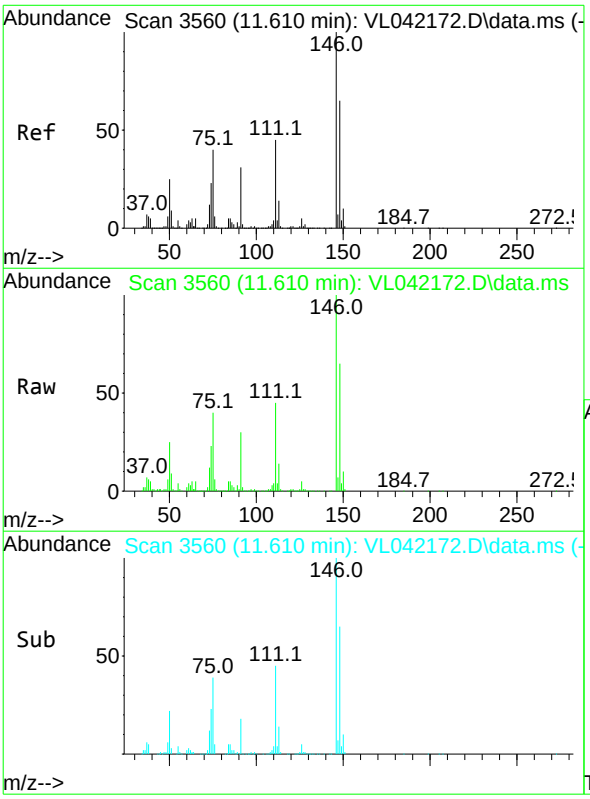
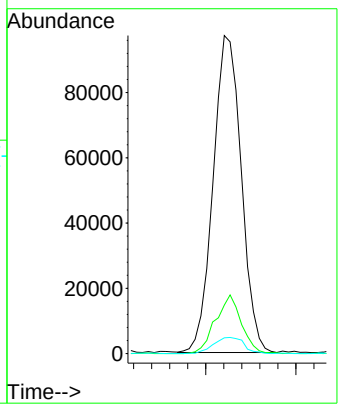
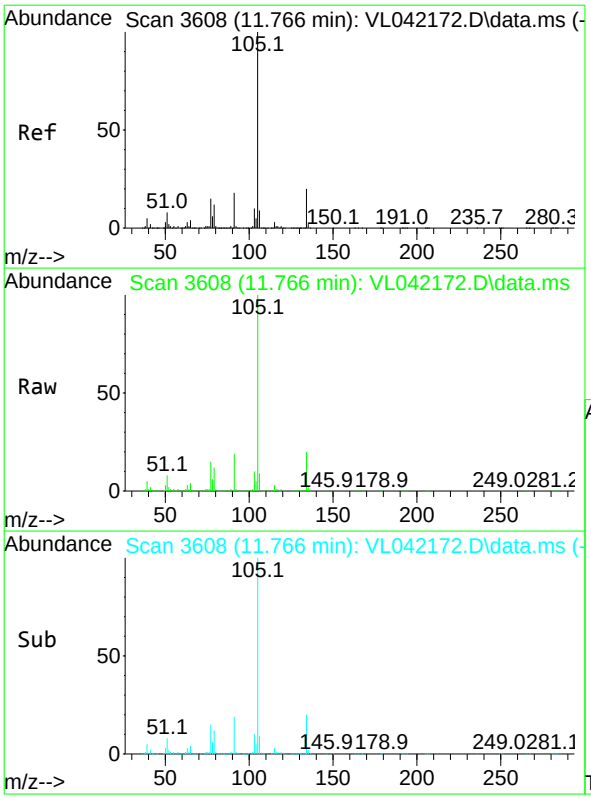



#66
Benzyl Chloride
Concen: 9.724 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 91 Resp: 105411

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 17.2 | 13.8 | 20.6 |
| 128 | 5.6 | 4.5 | 6.7 |

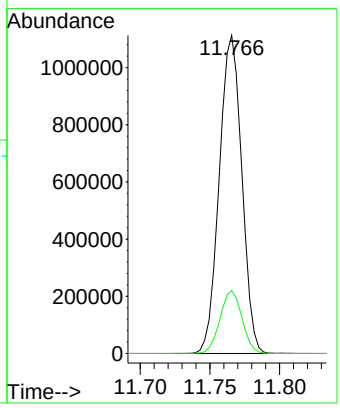





#67
sec-Butylbenzene
Concen: 8.796 ppbv
RT: 11.766 min Scan# 36
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:105 Resp: 1249106

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.4 | 15.5 | 23.3 |

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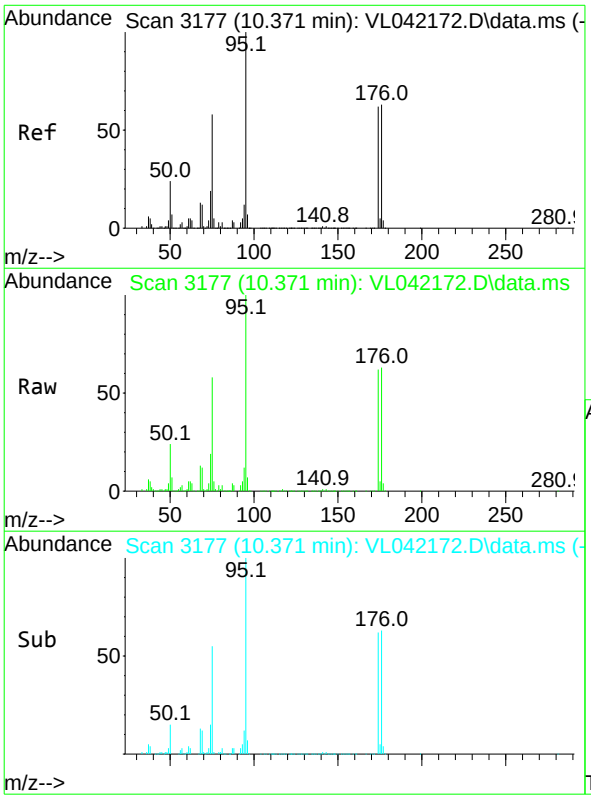
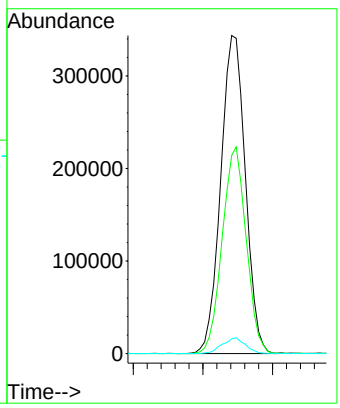
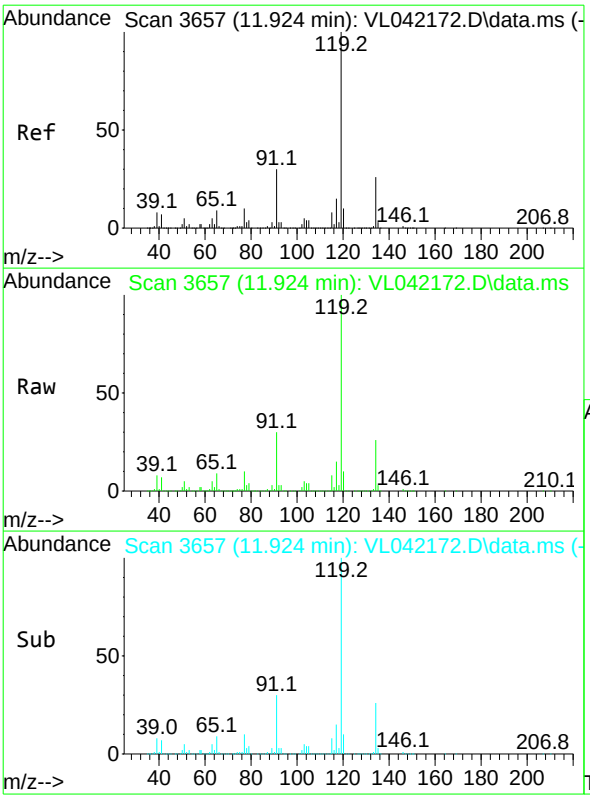



#68
1-Bromo-4-Fluorobenzene
Concen: 9.901 ppbv
RT: 10.371 min Scan# 3177
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 95 Resp: 422410

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 63.3 | 50.6 | 76.0 |
| 175 | 4.7 | 3.8 | 5.6 |

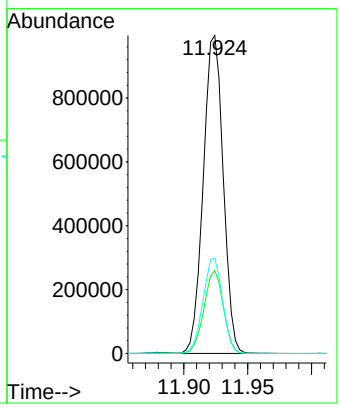





#69
p-Isopropyltoluene
Concen: 8.830 ppbv
RT: 11.924 min Scan# 36
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:119 Resp: 1079675

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.5 | 20.4 | 30.6 |
| 91 | 29.6 | 23.7 | 35.5 |

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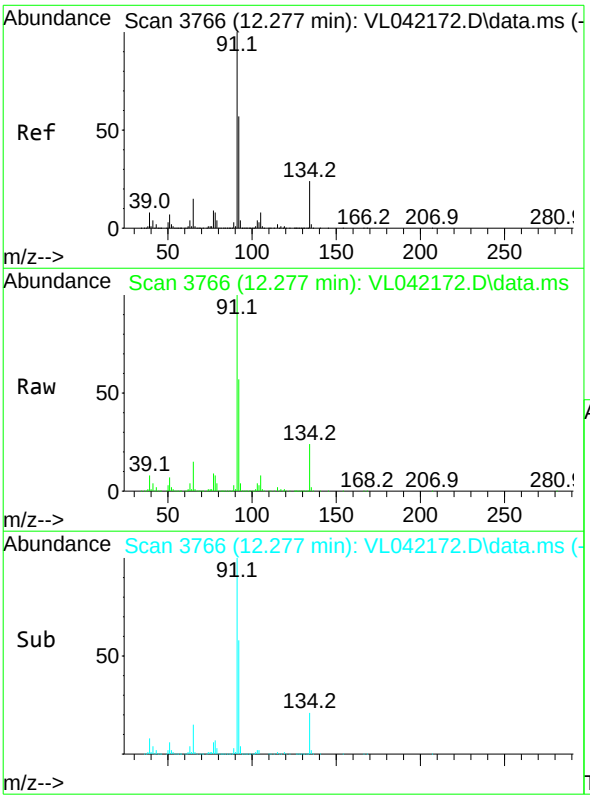
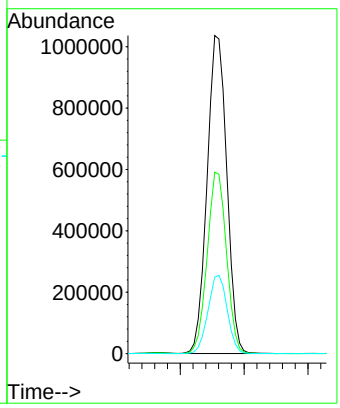
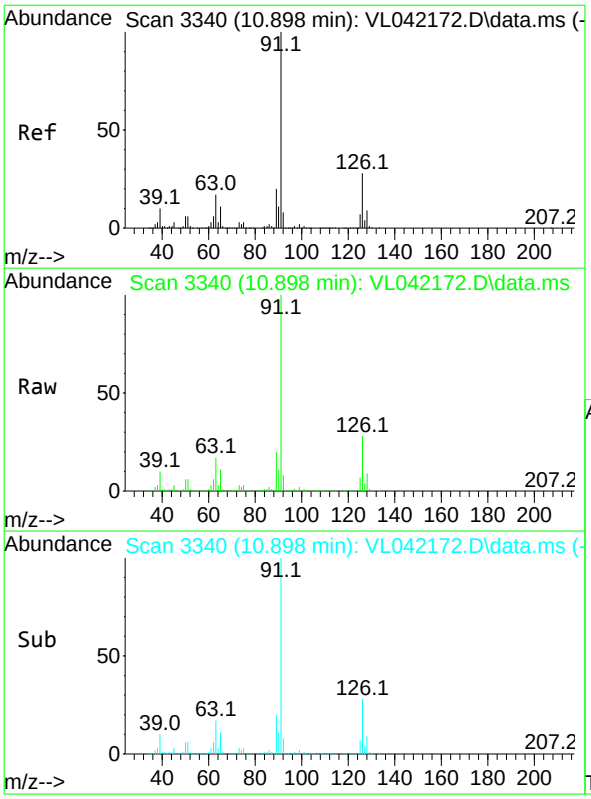



#70
n-Butylbenzene
Concen: 8.879 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 91 Resp: 1110351

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 56.1 | 44.9 | 67.3 |
| 134 | 24.0 | 19.2 | 28.8 |

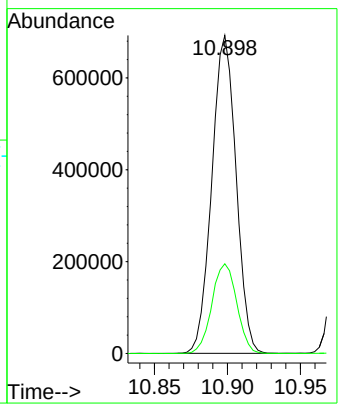





#71
2-Chlorotoluene
Concen: 9.320 ppbv
RT: 10.898 min Scan# 33
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 91 Resp: 799102

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 29.0 | 11.6 | 46.4 |

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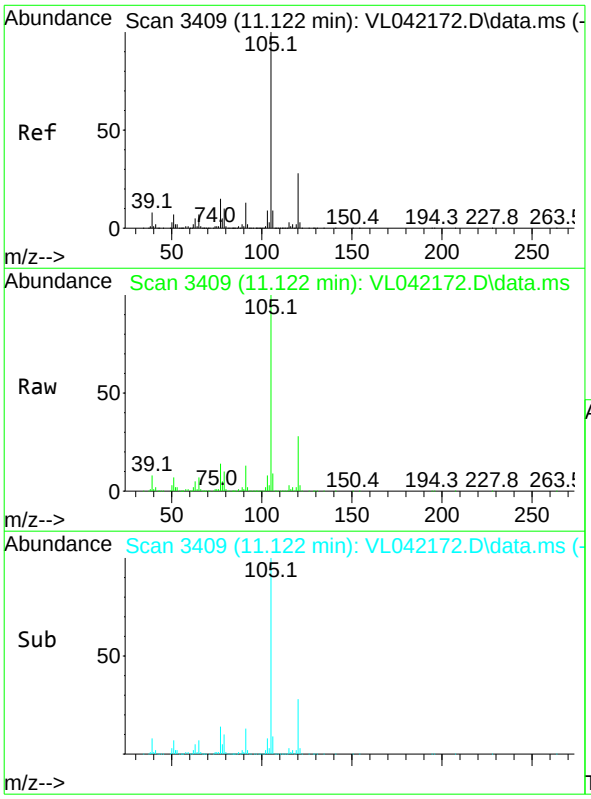
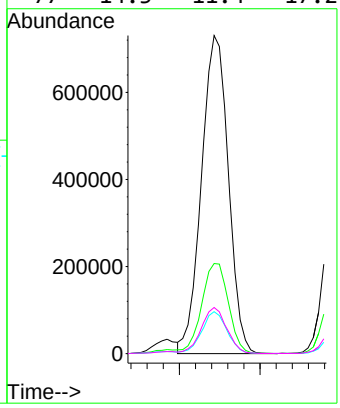
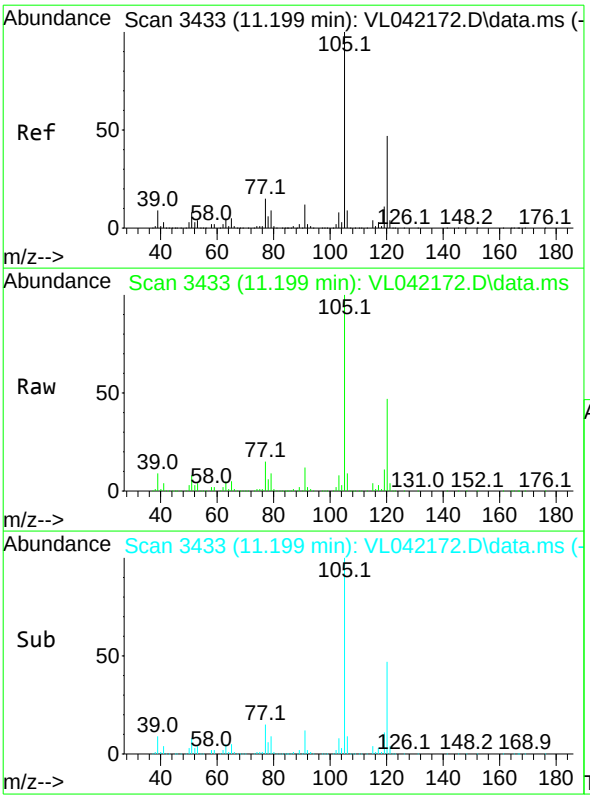



#72
4-Ethyltoluene
Concen: 9.200 ppbv
RT: 11.122 min Scan# 3409
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:105 Resp: 846232

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 29.2 | 23.4 | 35.0 |
| 91 | 12.9 | 10.3 | 15.5 |
| 77 | 14.3 | 11.4 | 17.2 |

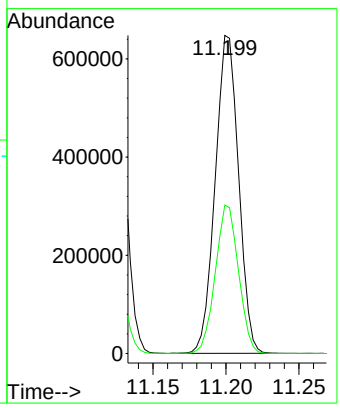





#73
1,3,5-Trimethylbenzene
Concen: 8.970 ppbv
RT: 11.199 min Scan# 34
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:105 Resp: 720566

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.7 | 37.4 | 56.0 |

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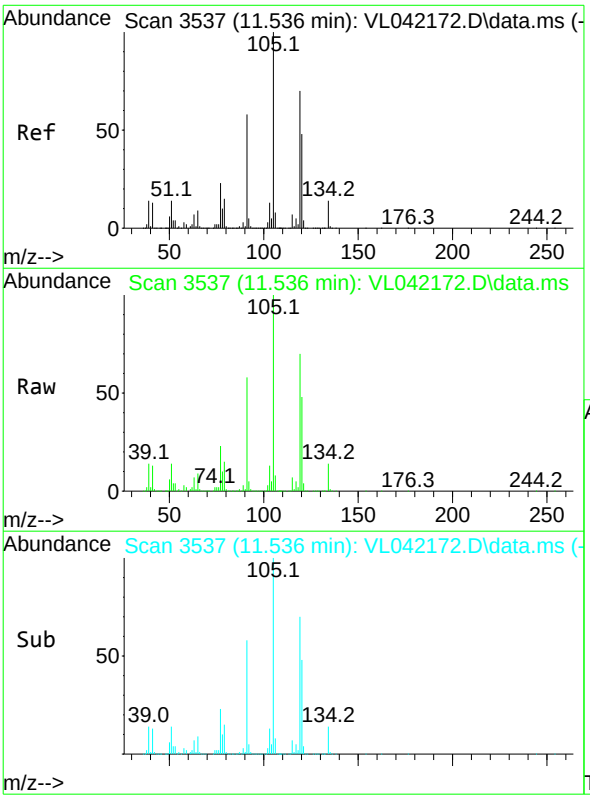
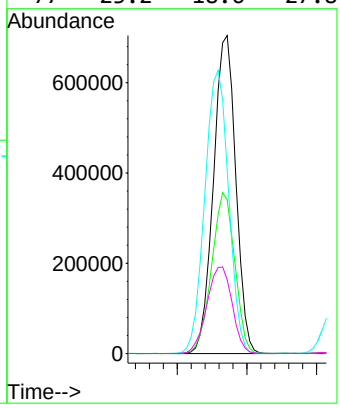
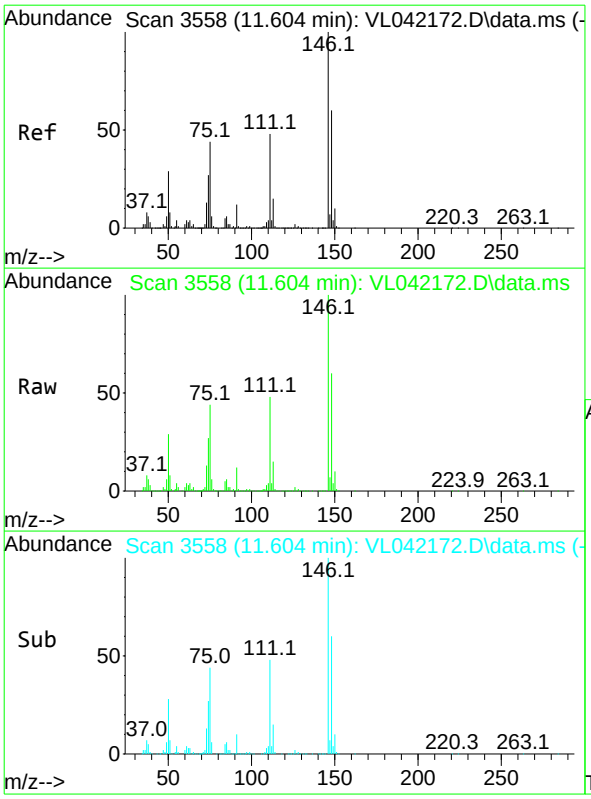



#74
1,2,4-Trimethylbenzene
Concen: 8.480 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:105 Resp: 784745

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.3 | 38.6 | 58.0 |
| 91 | 57.7 | 46.2 | 69.2 |
| 77 | 23.2 | 18.6 | 27.8 |

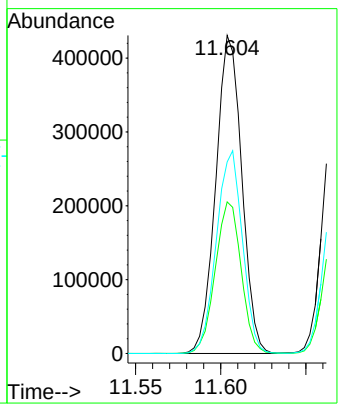





#75
1,3-Dichlorobenzene
Concen: 9.028 ppbv
RT: 11.604 min Scan# 35
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:146 Resp: 458226

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 47.5 | 23.8 | 71.2 |
| 148 | 63.9 | 31.9 | 95.9 |

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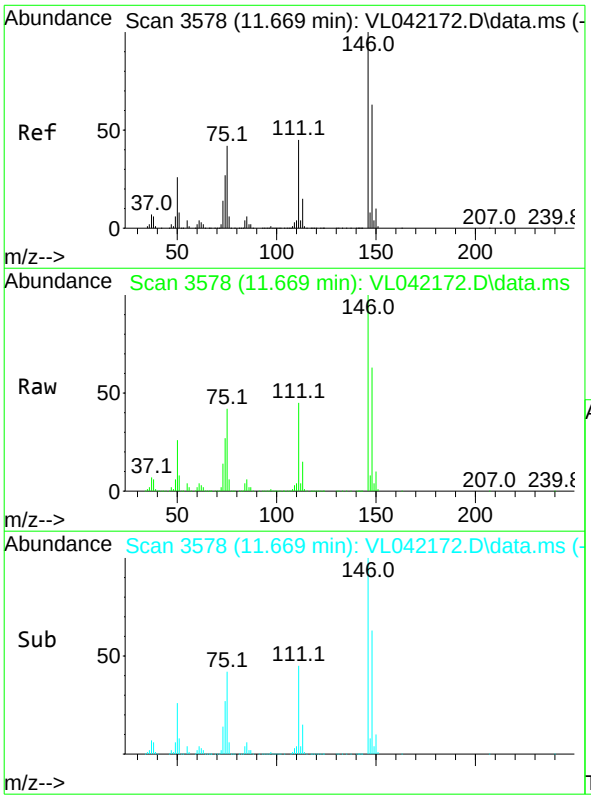
**ClientSampleId :**
VSTDICCC010

**Manual Integrations APPROVED**

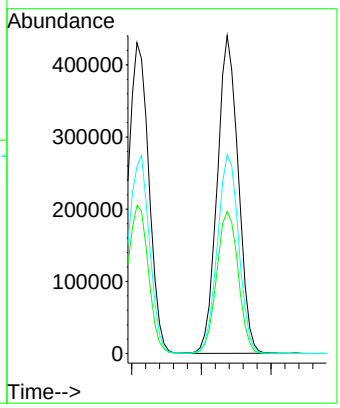
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

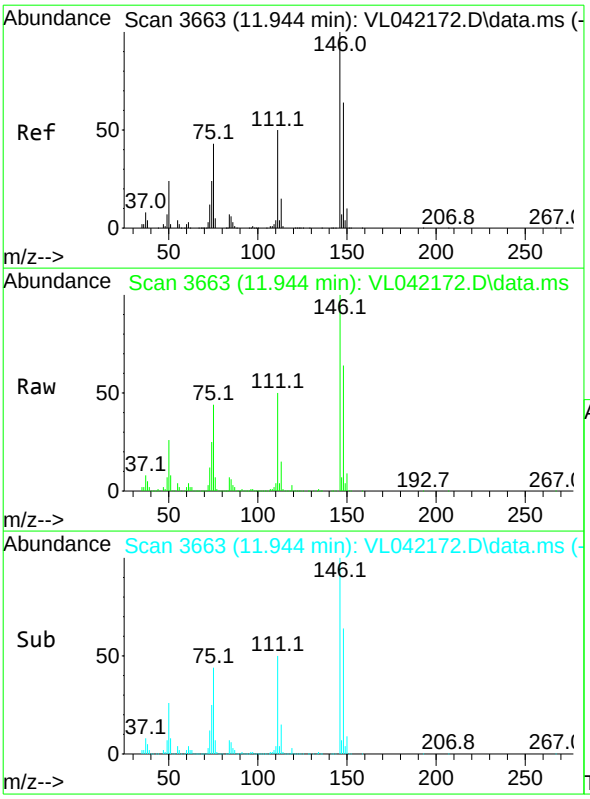



#76
1,4-Dichlorobenzene
Concen: 9.134 ppbv
RT: 11.669 min Scan# 3578
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:146 Resp: 461371

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 46.0 | 23.0 | 69.0 |
| 148 | 63.8 | 31.9 | 95.7 |

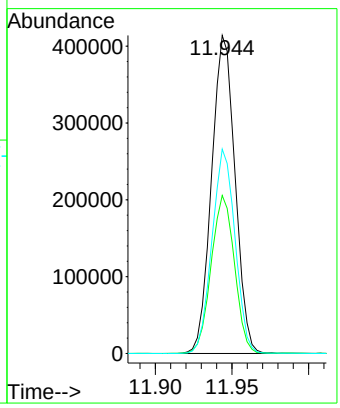





#77
1,2-Dichlorobenzene
Concen: 8.933 ppbv
RT: 11.944 min Scan# 36
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:146 Resp: 441473

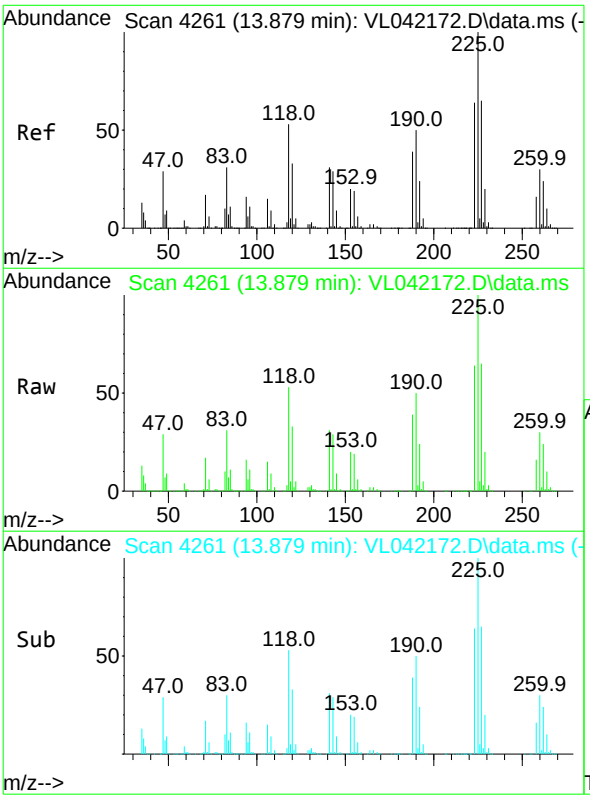
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 49.5 | 24.8 | 74.3 |
| 148 | 63.2 | 31.6 | 94.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

**Manual Integrations**
**APPROVED**

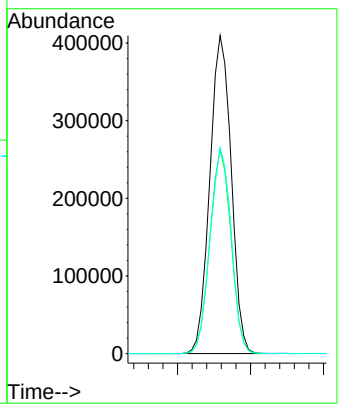
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

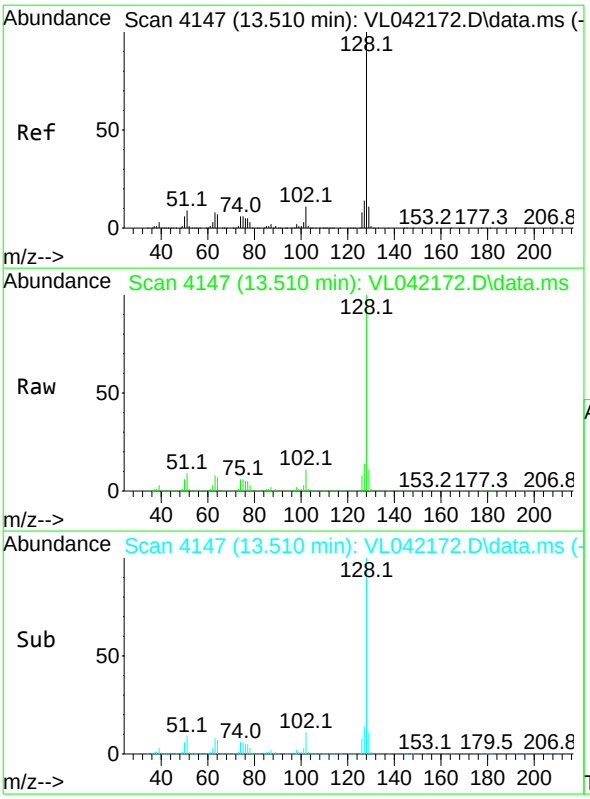



#78
Hexachloro-1,3-Butadiene
Concen: 8.284 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:225 Resp: 416735

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.3 | 50.6 | 76.0 |
| 227 | 64.0 | 51.2 | 76.8 |

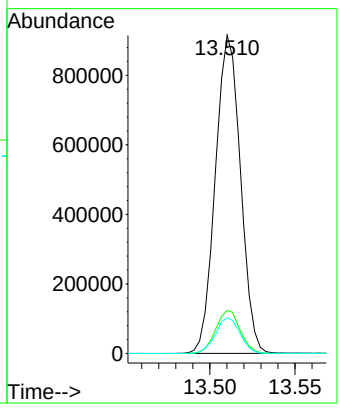





#79
Naphthalene
Concen: 9.271 ppbv
RT: 13.510 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:128 Resp: 938470

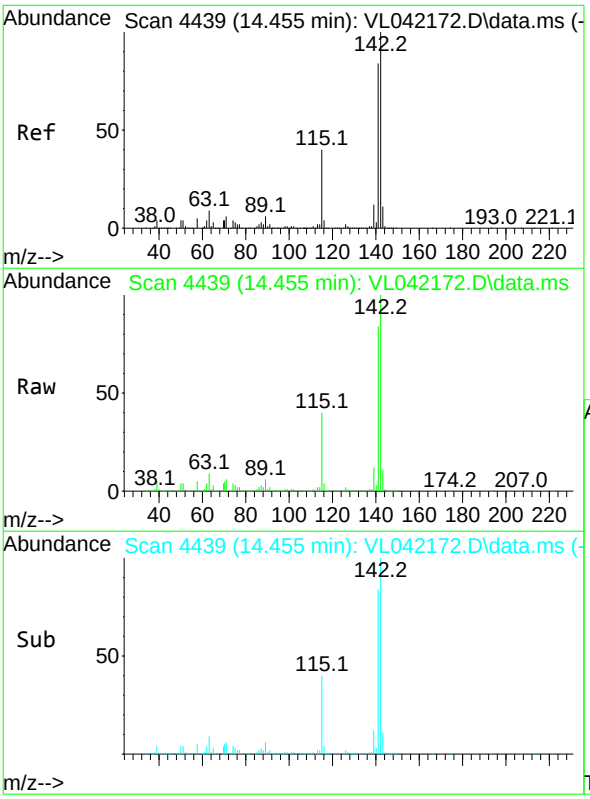
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.5 | 10.8 | 16.2 |
| 129 | 11.2 | 9.0 | 13.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

**Manual Integrations**
**APPROVED**

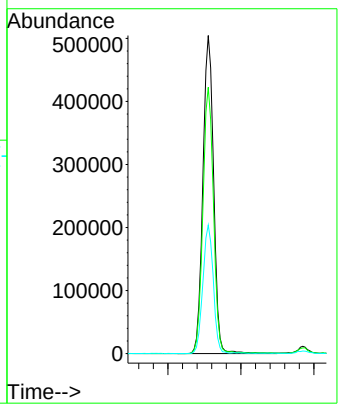
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

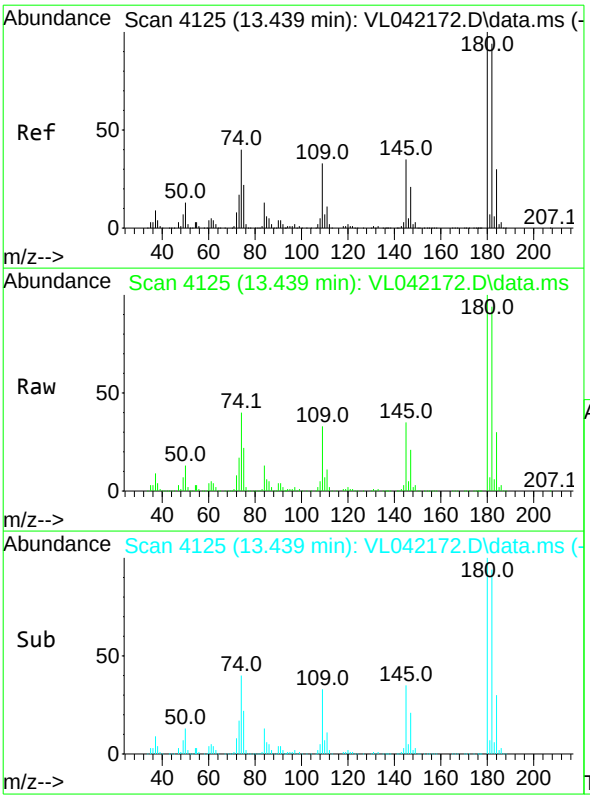



#80
Naphthalene,2-methyl-
Concen: 10.436 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:142 Resp: 514394

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 82.9 | 66.3 | 99.5 |
| 115 | 39.5 | 31.6 | 47.4 |

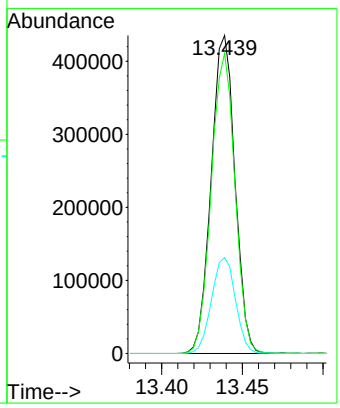





#81
1,2,4-Trichlorobenzene
Concen: 9.561 ppbv
RT: 13.439 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:180 Resp: 446420

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.9 | 75.1 | 112.7 |
| 184 | 30.5 | 24.4 | 36.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042173.D
Acq On : 27 Mar 2025 08:59
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 28 01:32:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 2.784 | 49 | 188395 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.952 | 114 | 546394 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.875 | 117 | 504538 | 10.000 | ppbv | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.370 | 95 | 417532 | 10.077 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 100.800% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.496 | 85 | 55859 | 2.008 | ppbv | | 99 |
| 3) Chlorodifluoromethane | 1.473 | 51 | 57045 | 2.007 | ppbv | | 99 |
| 4) Chloromethane | 1.531 | 50 | 23293 | 2.049 | ppbv | | 94 |
| 5) Vinyl Chloride | 1.576 | 62 | 21989 | 1.897 | ppbv | | 99 |
| 6) Bromomethane | 1.664 | 94 | 10027 | 1.946 | ppbv | | 98 |
| 7) Chloroethane | 1.703 | 64 | 8413 | 1.844 | ppbv | | 92 |
| 8) Dichlorotetrafluoroethane | 1.551 | 85 | 48008 | 2.027 | ppbv | | 98 |
| 9) Propene | 1.483 | 41 | 26295 | 2.054 | ppbv | | 94 |
| 10) Heptane | 4.972 | 43 | 71466 | 2.063 | ppbv | | 99 |
| 11) Trichlorofluoromethane | 1.874 | 101 | 55754 | 2.060 | ppbv | | 99 |
| 12) 1,1,2-Trichlorotrifluo... | 2.136 | 101 | 44761 | 2.012 | ppbv | | 98 |
| 13) Ethanol | 1.719 | 45 | 2748m | 2.741 | ppbv | | |
| 14) Bromoethene | 1.780 | 108 | 17323 | 2.033 | ppbv | # | 89 |
| 15) Acetone | 1.832 | 43 | 55365 | 2.101 | ppbv | | 95 |
| 16) 1,3-Butadiene | 1.606 | 39 | 22894 | 1.932 | ppbv | | 95 |
| 17) tert-Butyl alcohol | 2.039 | 59 | 66174 | 2.016 | ppbv | | 100 |
| 18) 1,1-Dichloroethene | 2.030 | 96 | 21103 | 2.029 | ppbv | | 95 |
| 19) Isopropyl Alcohol | 1.884 | 45 | 27804 | 1.870 | ppbv | # | 35 |
| 20) Methylene Chloride | 2.059 | 84 | 20518 | 2.091 | ppbv | | 96 |
| 21) Allyl Chloride | 2.094 | 41 | 38425 | 2.068 | ppbv | | 99 |
| 22) trans-1,2-Dichloroethene | 2.337 | 96 | 23384 | 1.924 | ppbv | | 92 |
| 23) Vinyl Acetate | 2.460 | 43 | 20736 | 1.894 | ppbv | # | 97 |
| 24) 1,1-Dichloroethane | 2.405 | 63 | 44740 | 2.008 | ppbv | | 99 |
| 25) Ethyl Acetate | 2.832 | 43 | 139516 | 2.040 | ppbv | | 99 |
| 26) Hexane | 2.823 | 57 | 52095 | 1.972 | ppbv | | 92 |
| 27) Carbon Disulfide | 2.146 | 76 | 57969 | 2.047 | ppbv | # | 76 |
| 28) Methyl tert-Butyl Ether | 2.437 | 73 | 33703 | 2.049 | ppbv | | 99 |
| 29) Chloroform | 2.845 | 83 | 78043 | 2.019 | ppbv | | 95 |
| 30) Cyclohexane | 3.852 | 84 | 45641 | 1.989 | ppbv | | 99 |
| 31) cis-1,2-Dichloroethene | 2.719 | 61 | 53713 | 2.003 | ppbv | | 96 |
| 32) 1,1,1-Trichloroethane | 3.363 | 97 | 81070 | 1.833 | ppbv | | 99 |
| 34) 2-Butanone | 2.554 | 43 | 84157 | 2.124 | ppbv | | 99 |
| 35) Carbon Tetrachloride | 3.758 | 117 | 81735 | 1.944 | ppbv | | 96 |
| 36) Benzene | 3.651 | 78 | 110727 | 2.044 | ppbv | | 97 |
| 37) 1,2-Dichloroethane | 3.214 | 62 | 61476 | 1.982 | ppbv | | 97 |
| 38) Trichloroethene | 4.541 | 130 | 43501 | 1.924 | ppbv | | 97 |
| 39) 1,2-Dichloropropane | 4.308 | 63 | 39912 | 2.023 | ppbv | | 93 |
| 40) 1,4-Dioxane | 4.587 | 88 | 20884m | 2.040 | ppbv | | |
| 41) Tetrahydrofuran | 3.056 | 42 | 47262 | 2.097 | ppbv | | 99 |
| 42) Bromodichloromethane | 4.483 | 83 | 87640 | 2.050 | ppbv | | 99 |
| 43) Methyl Methacrylate | 4.878 | 69 | 44624 | 1.952 | ppbv | | 97 |
| 44) 2,2,4-Trimethylpentane | 4.632 | 57 | 188282 | 2.057 | ppbv | | 100 |
| 45) t-1,3-Dichloropropene | 6.406 | 75 | 49461 | 2.011 | ppbv | | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042173.D
Acq On : 27 Mar 2025 08:59
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 28 01:32:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.593 | 75 | 61829 | 2.050 | ppbv | # | 91 |
| 47) 1,1,2-Trichloroethane | 6.577 | 97 | 41387 | 1.985 | ppbv | | 95 |
| 48) Dibromochloromethane | 7.383 | 129 | 72441 | 2.050 | ppbv | | 100 |
| 49) Bromoform | 9.477 | 173 | 65221 | 2.056 | ppbv | | 98 |
| 50) 4-Methyl-2-Pentanone | 5.752 | 43 | 132328 | 2.107 | ppbv | | 99 |
| 51) 2-Hexanone | 7.435 | 43 | 112681 | 2.162 | ppbv | # | 99 |
| 52) Tetrachloroethene | 8.221 | 164 | 40558 | 1.888 | ppbv | | 98 |
| 53) Toluene | 6.923 | 91 | 131314 | 2.045 | ppbv | | 99 |
| 54) 1,2-Dibromoethane | 7.648 | 107 | 56799 | 1.952 | ppbv | | 90 |
| 56) 1,1,1,2-Tetrachloroethane | 8.920 | 131 | 58141 | 2.093 | ppbv | | 97 |
| 57) Chlorobenzene | 8.914 | 112 | 100308 | 2.096 | ppbv | # | 94 |
| 58) Ethyl Benzene | 9.351 | 91 | 191114 | 2.132 | ppbv | | 96 |
| 59) m/p-Xylene | 9.548 | 91 | 299531m | 4.181 | ppbv | | |
| 60) o-Xylene | 9.959 | 91 | 151292 | 2.109 | ppbv | | 98 |
| 61) Styrene | 9.865 | 104 | 74134 | 2.089 | ppbv | | 98 |
| 62) Isopropylbenzene | 10.535 | 105 | 228191 | 2.127 | ppbv | | 99 |
| 63) 1,1,2,2-Tetrachloroethane | 9.956 | 83 | 90114 | 2.067 | ppbv | | 99 |
| 64) n-propylbenzene | 10.985 | 120 | 58105 | 2.104 | ppbv | | 92 |
| 65) tert-Butylbenzene | 11.529 | 119 | 216336 | 2.180 | ppbv | | 99 |
| 66) Benzyl Chloride | 11.610 | 91 | 22272 | 2.116 | ppbv | | 95 |
| 67) sec-Butylbenzene | 11.762 | 105 | 297381 | 2.156 | ppbv | | 99 |
| 69) p-Isopropyltoluene | 11.921 | 119 | 258357 | 2.176 | ppbv | | 100 |
| 70) n-Butylbenzene | 12.277 | 91 | 270616 | 2.228 | ppbv | | 99 |
| 71) 2-Chlorotoluene | 10.898 | 91 | 177487 | 2.132 | ppbv | | 100 |
| 72) 4-Ethyltoluene | 11.121 | 105 | 194660 | 2.179 | ppbv | | 99 |
| 73) 1,3,5-Trimethylbenzene | 11.199 | 105 | 169221 | 2.169 | ppbv | | 96 |
| 74) 1,2,4-Trimethylbenzene | 11.532 | 105 | 198351 | 2.207 | ppbv | | 96 |
| 75) 1,3-Dichlorobenzene | 11.604 | 146 | 107217 | 2.175 | ppbv | | 97 |
| 76) 1,4-Dichlorobenzene | 11.668 | 146 | 104925 | 2.139 | ppbv | | 99 |
| 77) 1,2-Dichlorobenzene | 11.943 | 146 | 102310 | 2.132 | ppbv | | 99 |
| 78) Hexachloro-1,3-Butadiene | 13.879 | 225 | 109539 | 2.242 | ppbv | | 99 |
| 79) Naphthalene | 13.510 | 128 | 233451 | 2.375 | ppbv | | 97 |
| 80) Naphthalene,2-methyl- | 14.455 | 142 | 117313 | 2.451 | ppbv | | 99 |
| 81) 1,2,4-Trichlorobenzene | 13.435 | 180 | 103765 | 2.288 | ppbv | | 97 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042173.D
Acq On : 27 Mar 2025 08:59
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 28 01:32:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 03/31/2025
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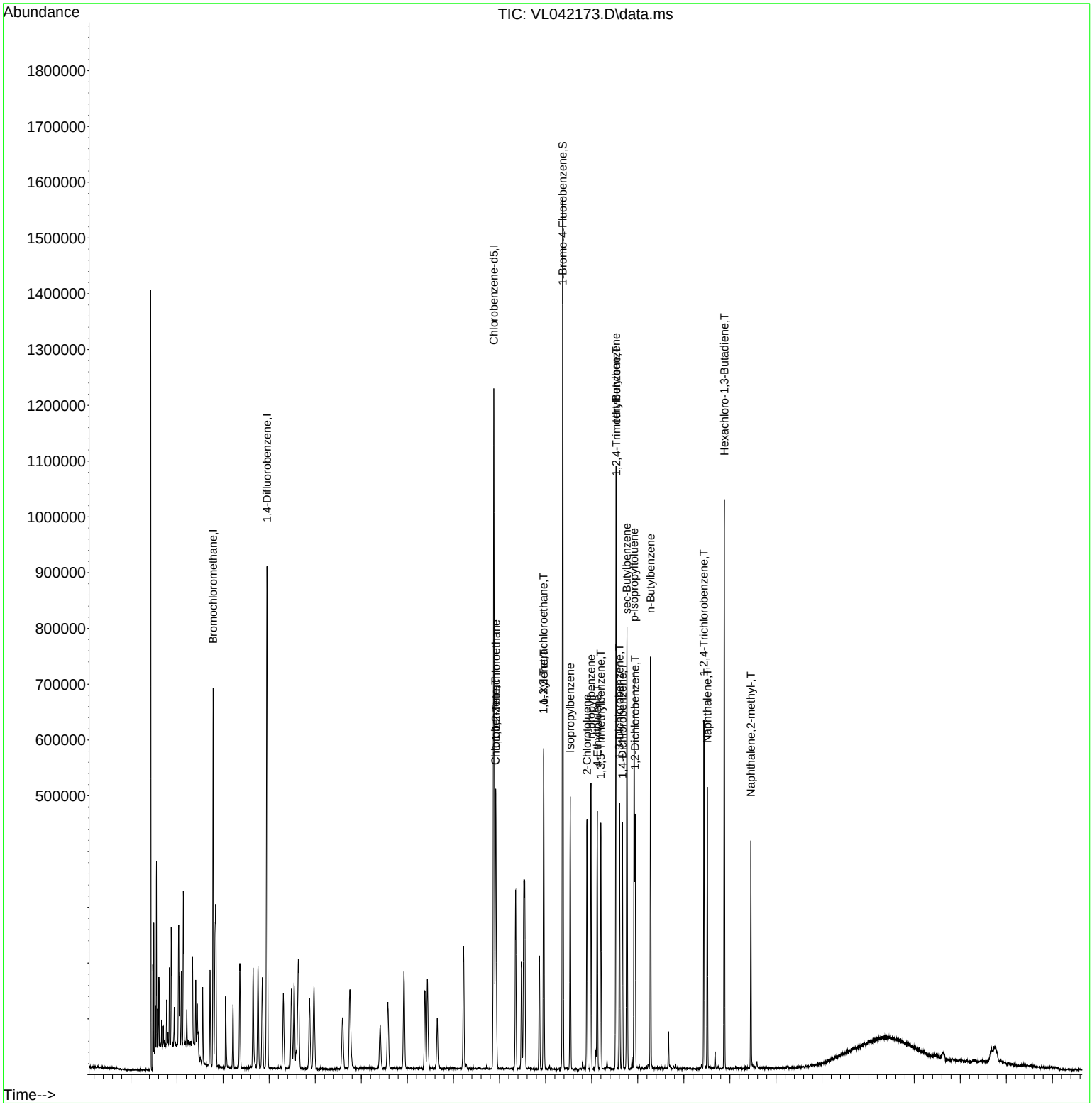
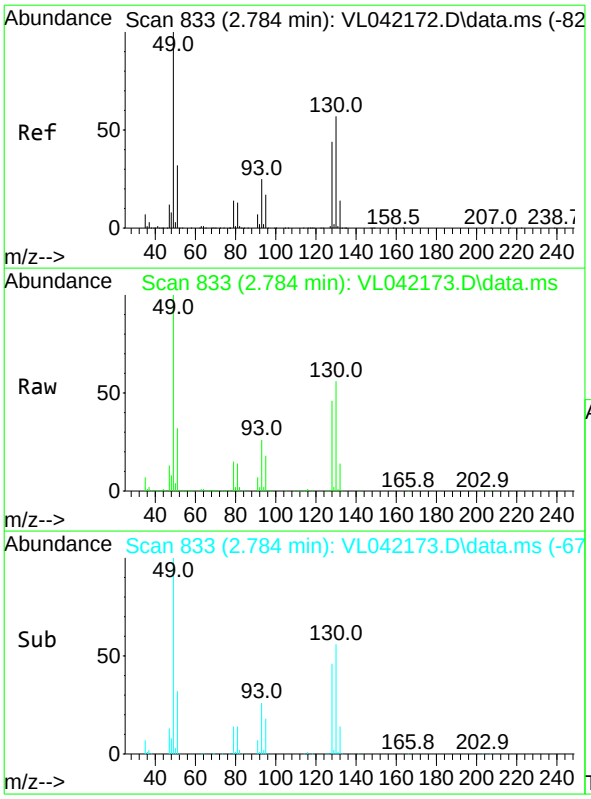
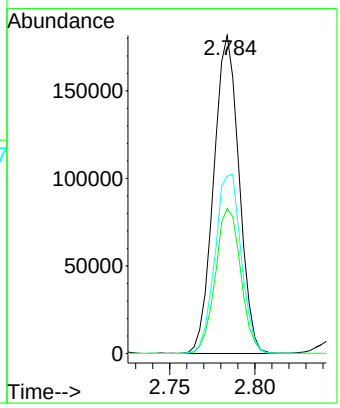





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 83
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 49 Resp: 188395

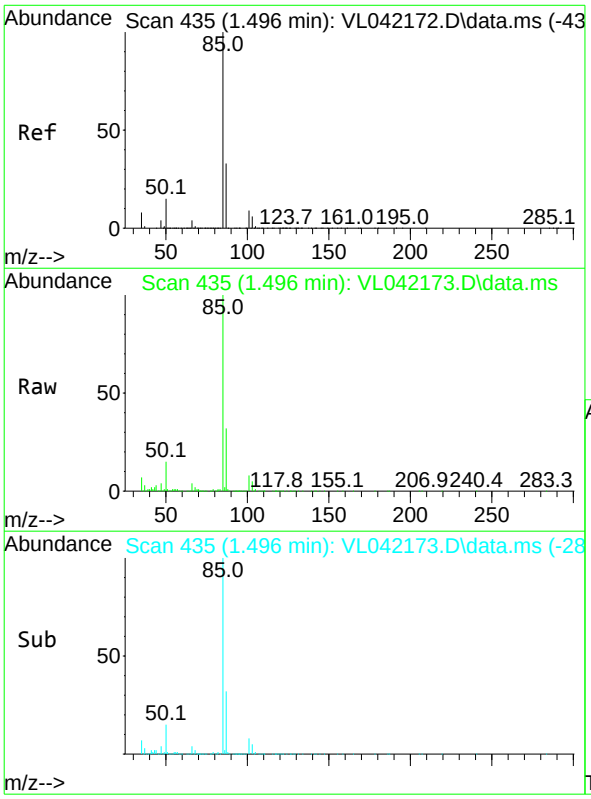
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 45.7 | 22.9 | 68.5 |
| 130 | 58.5 | 28.8 | 86.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

**Manual Integrations APPROVED**

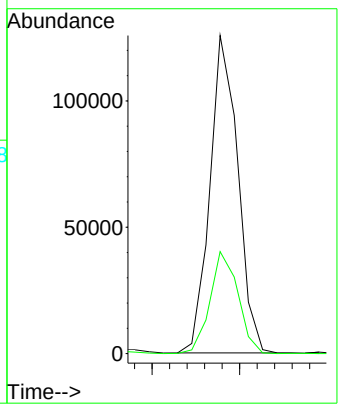
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

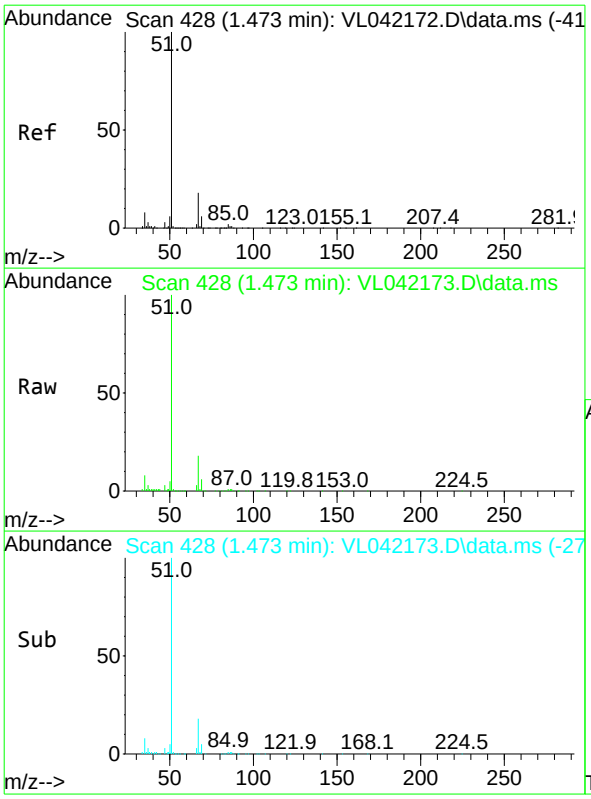



#2
Dichlorodifluoromethane
Concen: 2.008 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 85 Resp: 55859

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.1 | 26.1 | 39.1 |

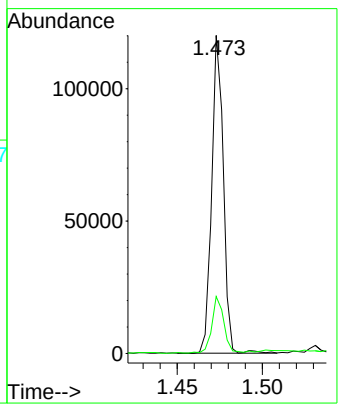





#3
Chlorodifluoromethane
Concen: 2.007 ppbv
RT: 1.473 min Scan# 42
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 51 Resp: 57045

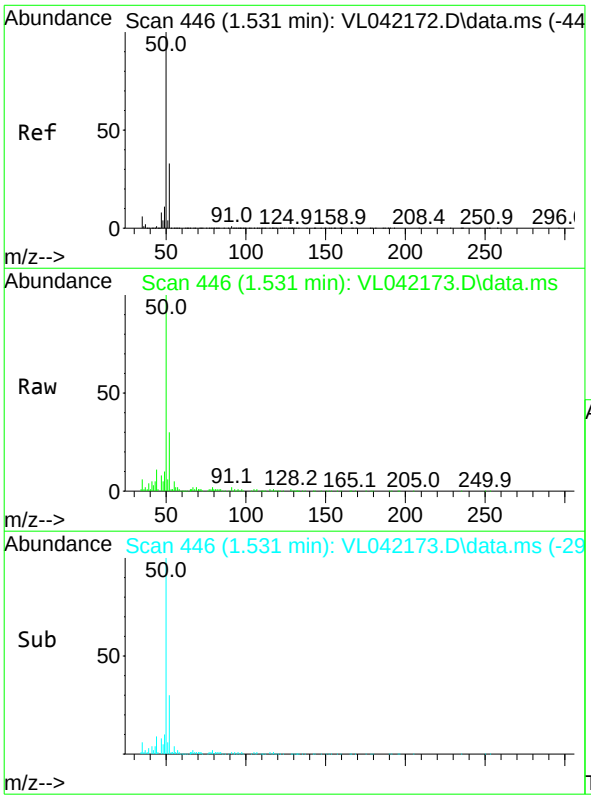
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 19.4 | 15.0 | 22.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

**Manual Integrations**
**APPROVED**

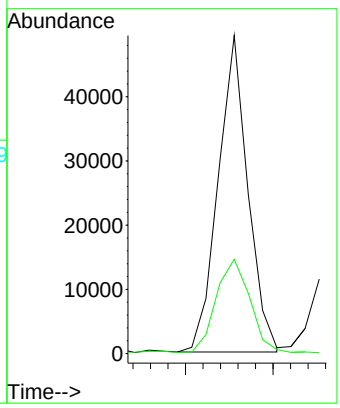
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

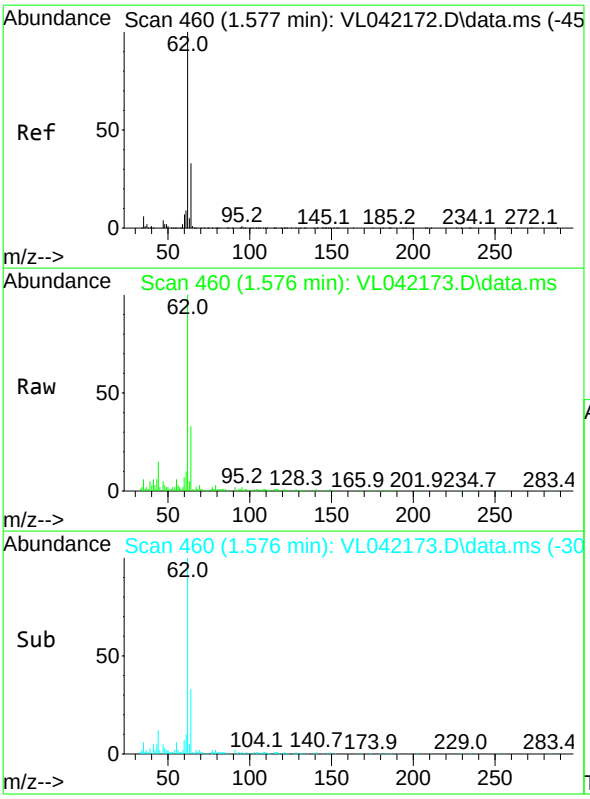



#4
Chloromethane
Concen: 2.049 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 50 Resp: 23293

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 29.5 | 26.1 | 39.1 |

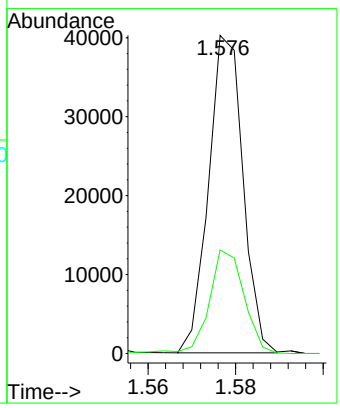





#5
Vinyl Chloride
Concen: 1.897 ppbv
RT: 1.576 min Scan# 46
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 62 Resp: 21989

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.5 | 26.6 | 40.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

**Manual Integrations**
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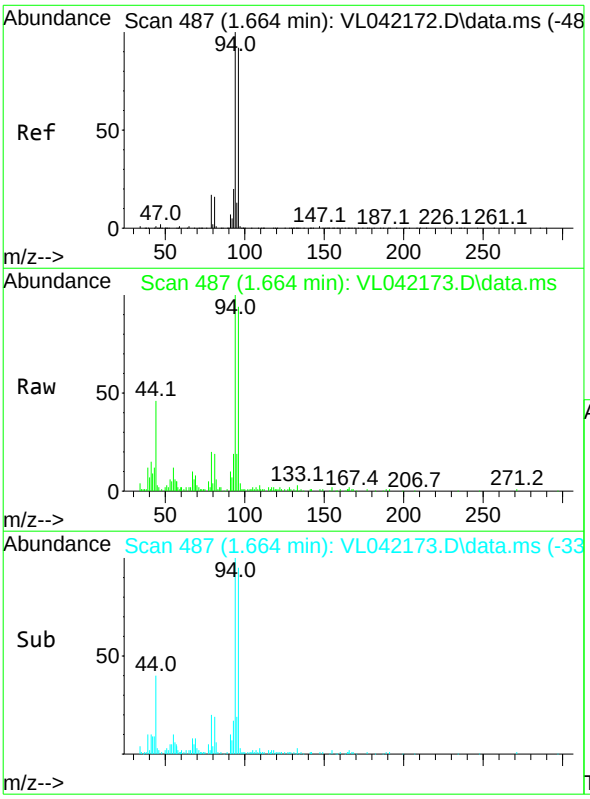
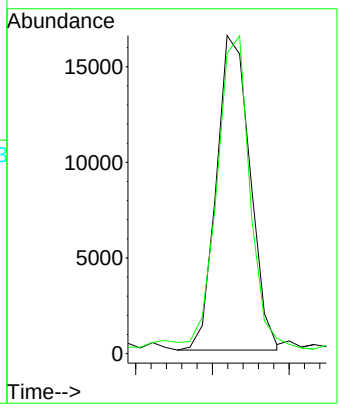
Supervised By :Mahesh Dadoda 04/03/2025

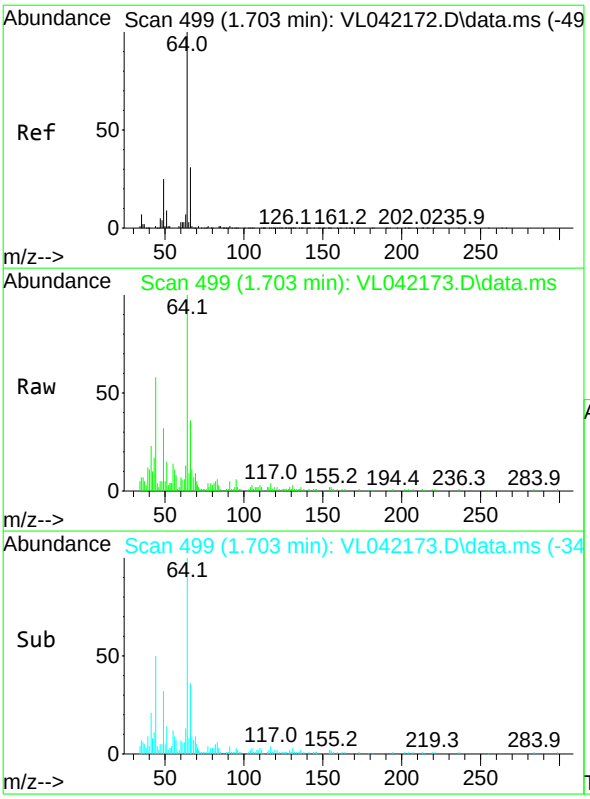



#6
Bromomethane
Concen: 1.946 ppbv
RT: 1.664 min Scan# 487
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 94 Resp: 10027

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 93.6 | 73.1 | 109.7 |

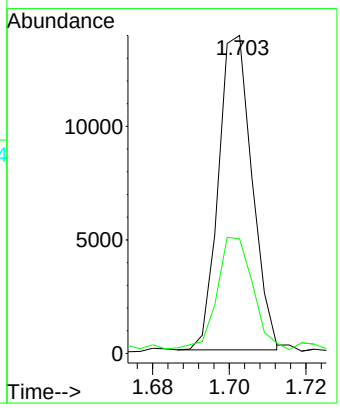





#7
Chloroethane
Concen: 1.844 ppbv
RT: 1.703 min Scan# 49
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 64 Resp: 8413

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 36.1 | 25.2 | 37.8 |




**Instrument :**
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**ClientSampleId :**
VSTDICC002

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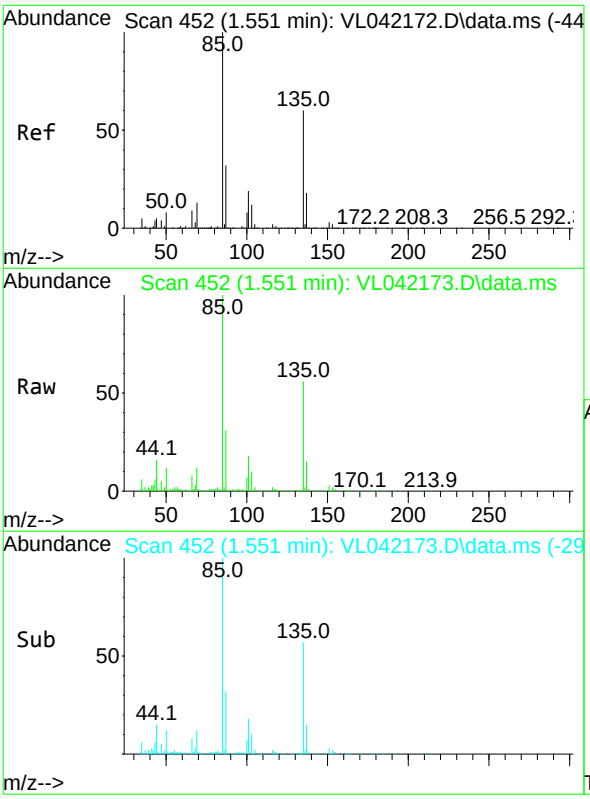
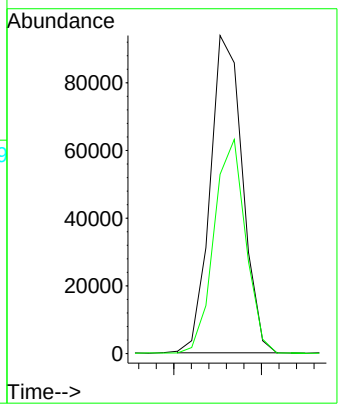
Supervised By :Mahesh Dadoda 04/03/2025

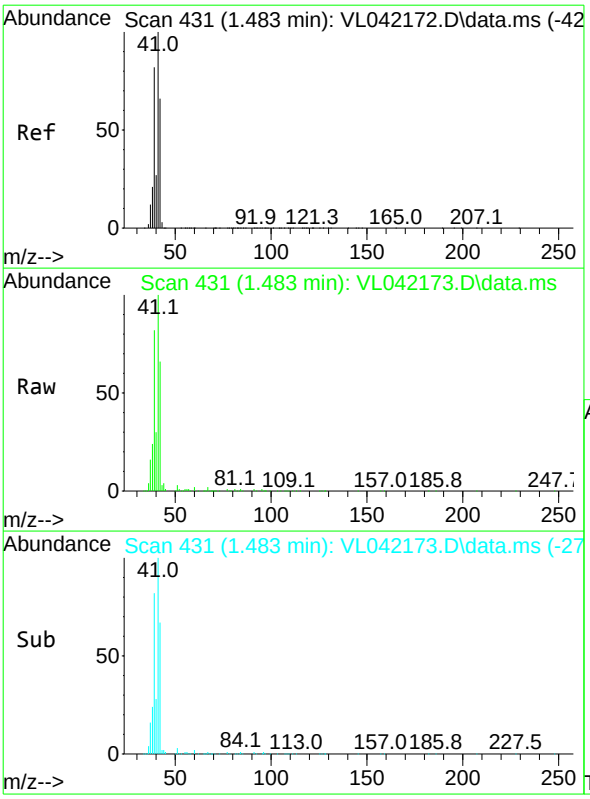



#8
Dichlorotetrafluoroethane
Concen: 2.027 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 85 Resp: 48008

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 66.8 | 52.4 | 78.6 |

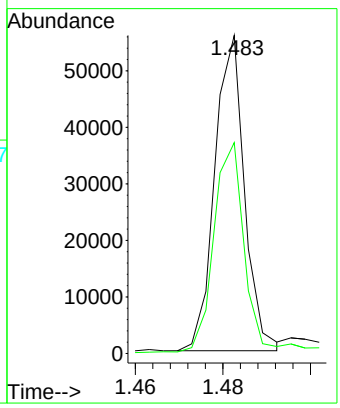





#9
Propene
Concen: 2.054 ppbv
RT: 1.483 min Scan# 43
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 41 Resp: 26295

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 73.9 | 55.4 | 83.2 |




**Instrument :**
MSVOA_L
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VSTDICC002

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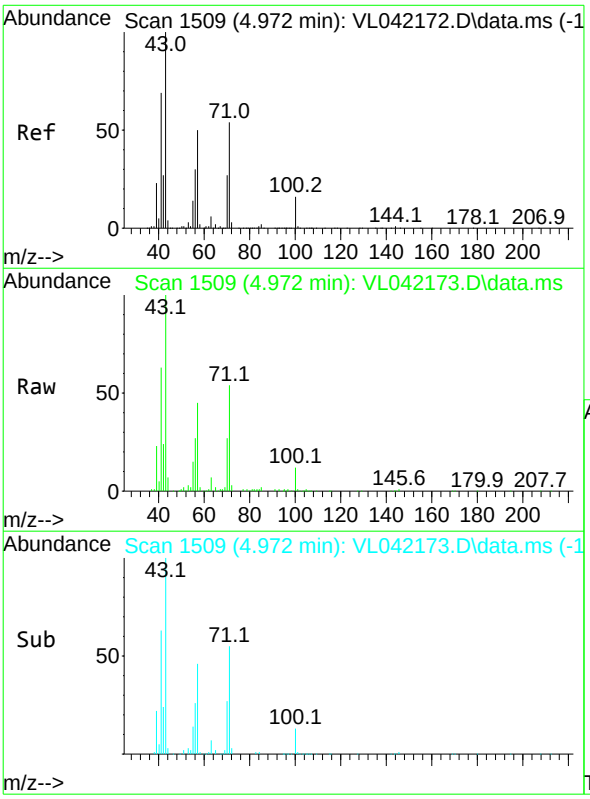
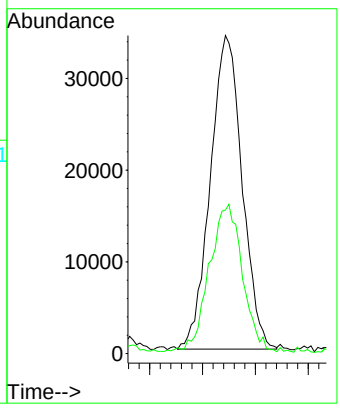
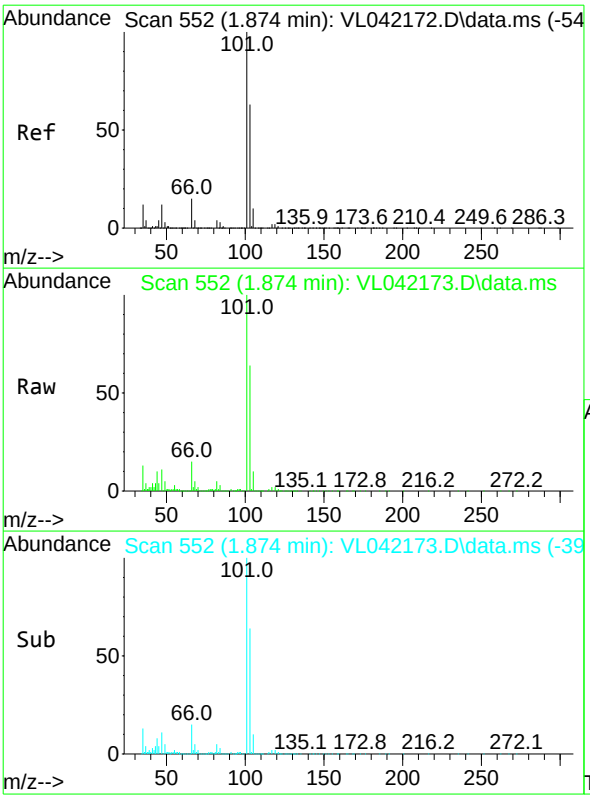



#10
Heptane
Concen: 2.063 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 43 Resp: 71466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 49.6 | 39.4 | 59.2 |

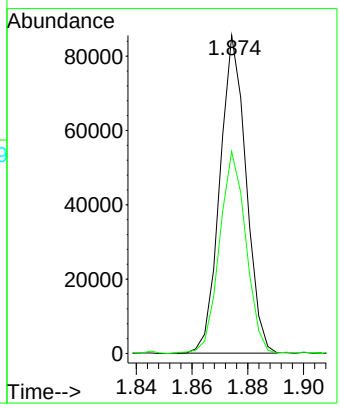





#11
Trichlorofluoromethane
Concen: 2.060 ppbv
RT: 1.874 min Scan# 55
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:101 Resp: 55754

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.5 | 50.2 | 75.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

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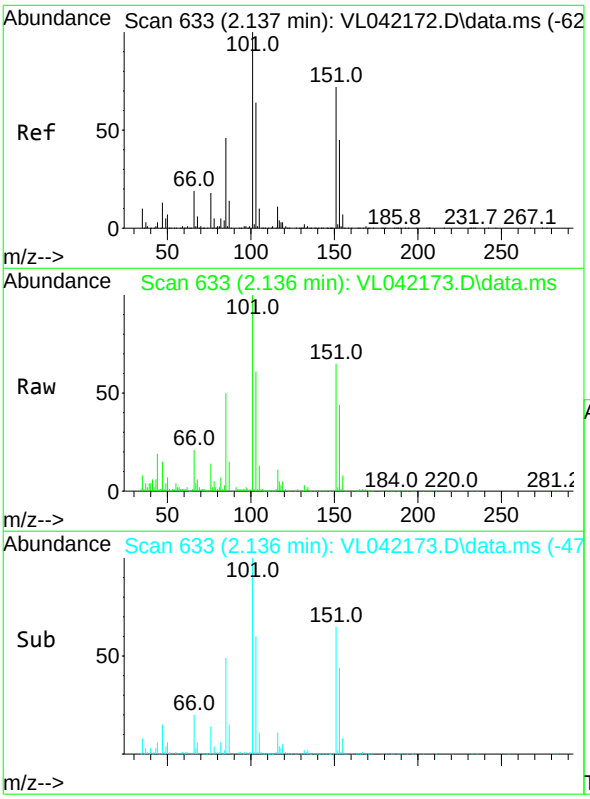
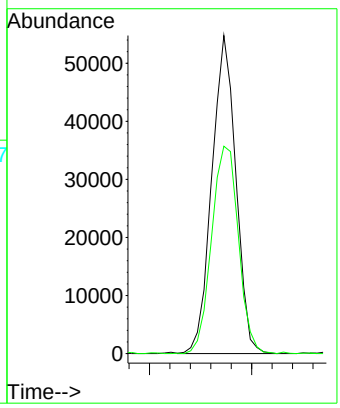
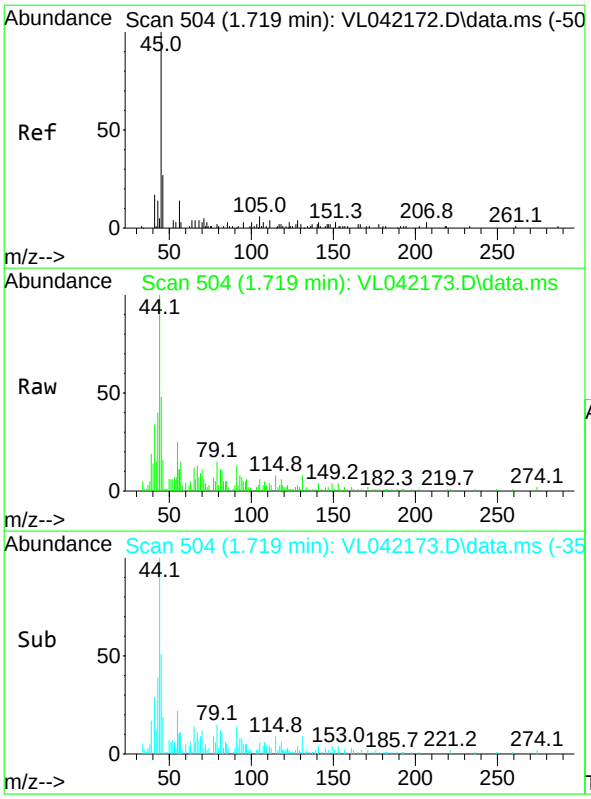



#12
1,1,2-Trichlorotrifluoroethane
Concen: 2.012 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:101 Resp: 44761

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 73.0 | 57.1 | 85.7 |

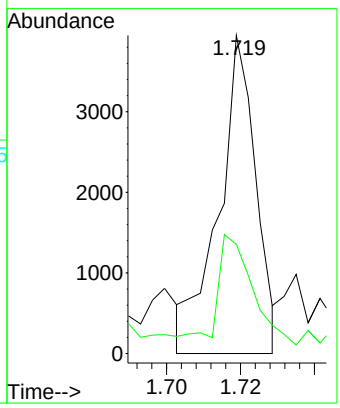





#13
Ethanol
Concen: 2.741 ppbv m
RT: 1.719 min Scan# 50
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 45 Resp: 2748

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 56.9 | 20.2 | 80.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

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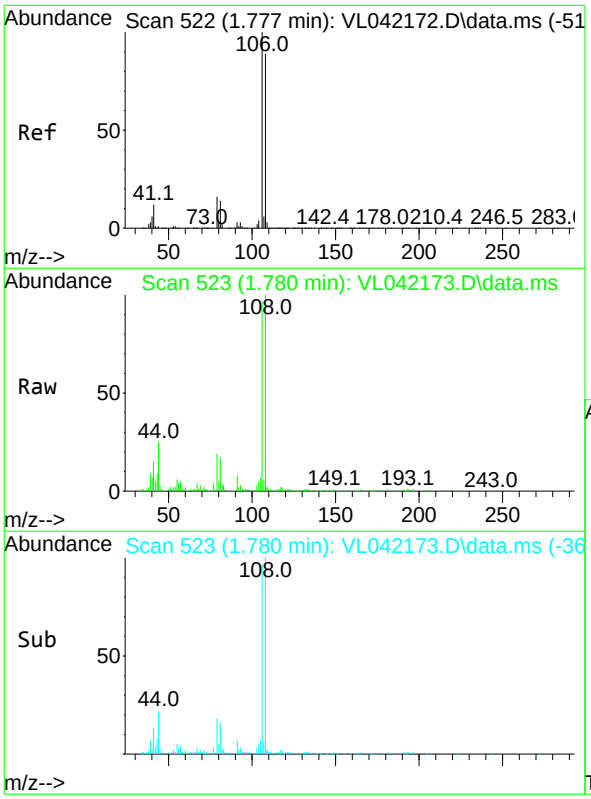
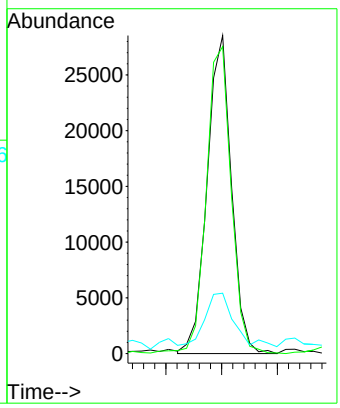
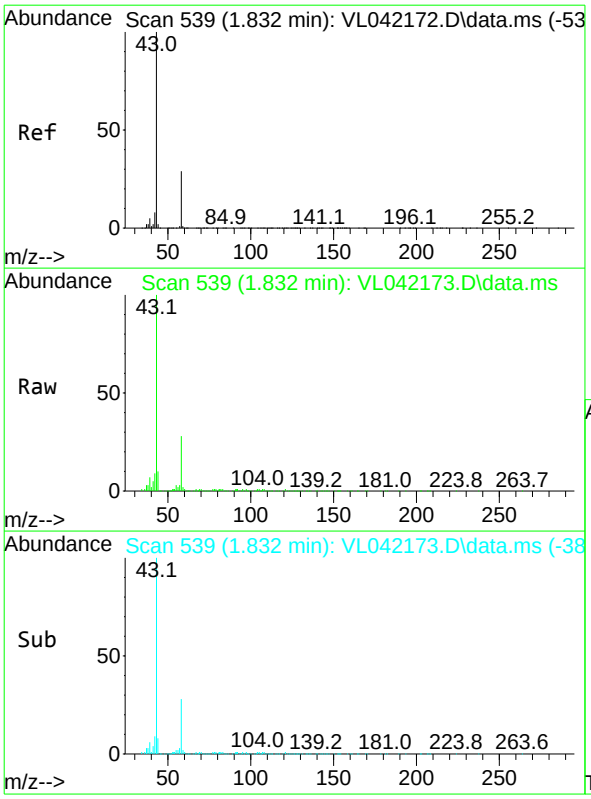



#14
Bromoethene
Concen: 2.033 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:108 Resp: 17323

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 106 | 100.6 | 86.8 | 130.2 |
| 79 | 32.0 | 15.0 | 22.6# |

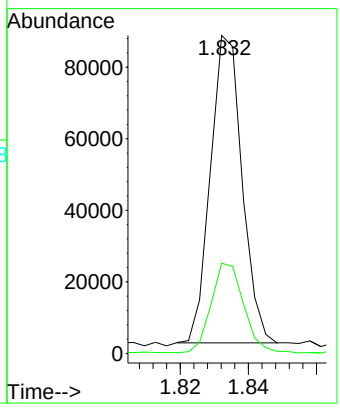





#15
Acetone
Concen: 2.101 ppbv
RT: 1.832 min Scan# 53
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 43 Resp: 55365

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 31.8 | 23.2 | 34.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

**Manual Integrations**
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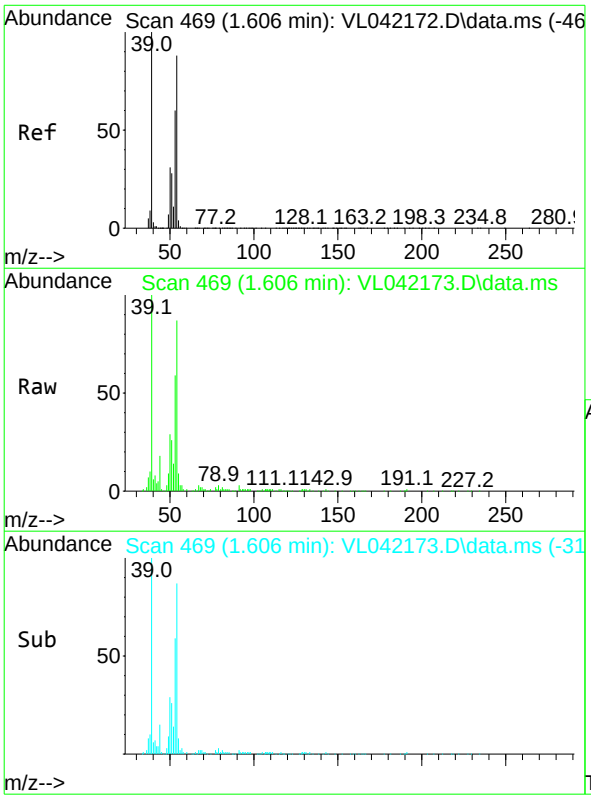
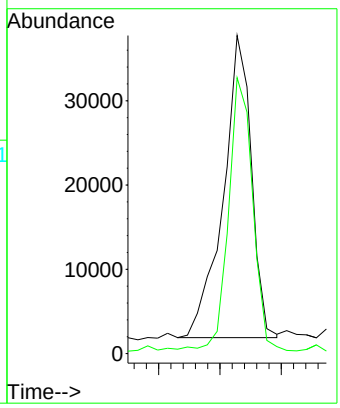
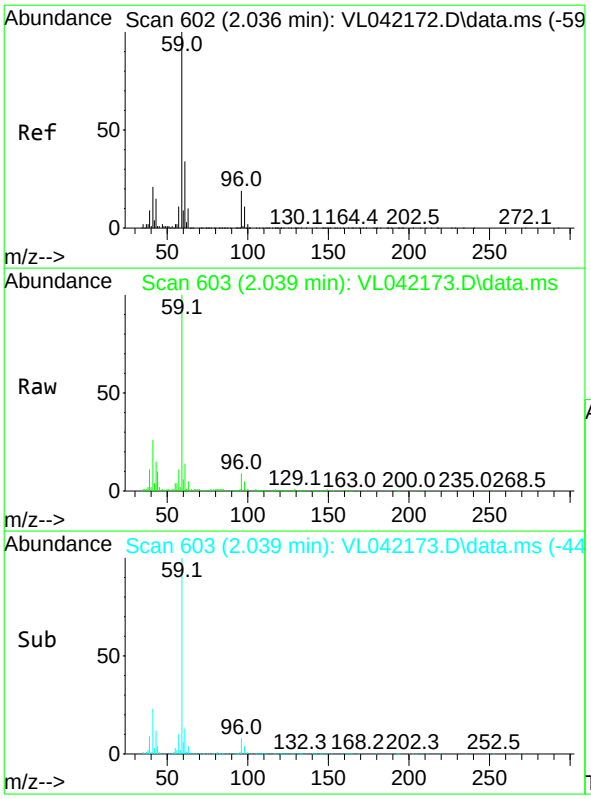



#16
1,3-Butadiene
Concen: 1.932 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 39 Resp: 22894

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 79.9 | 60.7 | 91.1 |

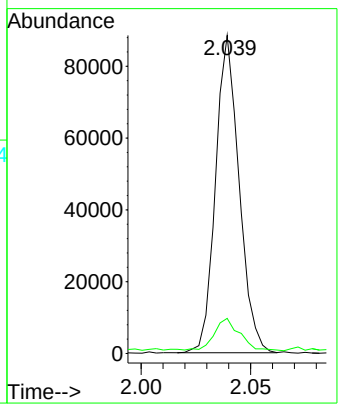





#17
tert-Butyl alcohol
Concen: 2.016 ppbv
RT: 2.039 min Scan# 60
Delta R.T. 0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 59 Resp: 66174

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 11.2 | 8.9 | 13.3 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

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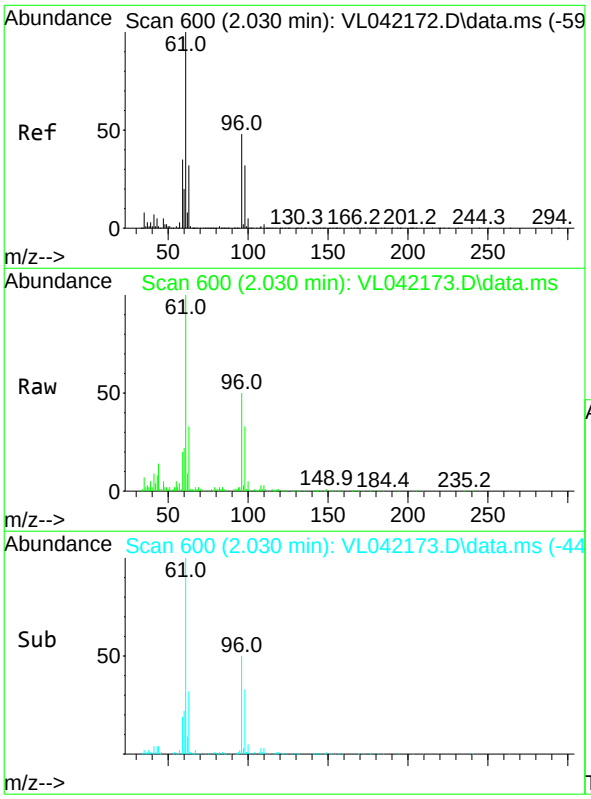
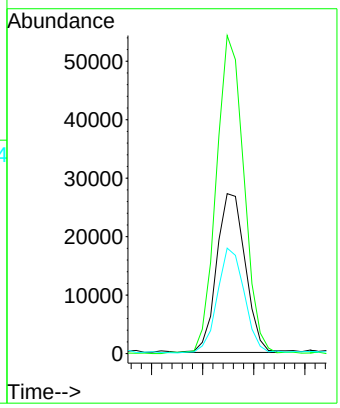
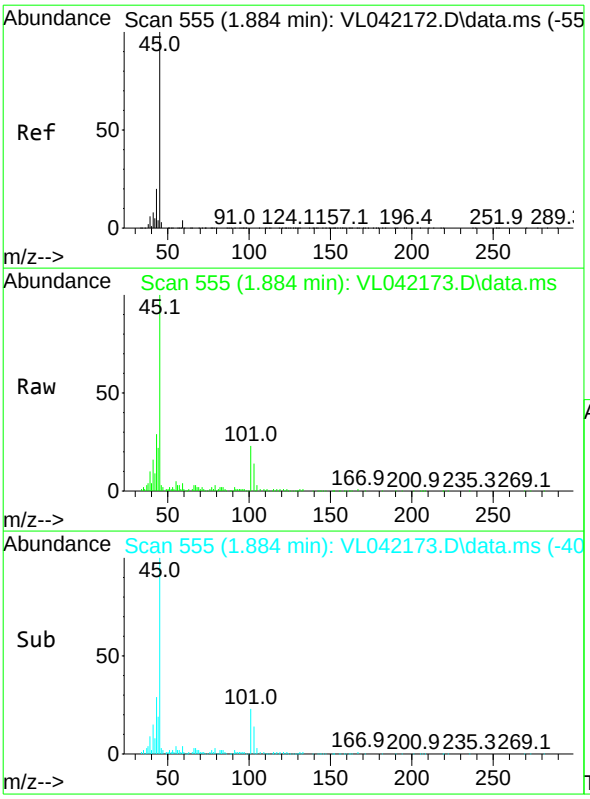



#18
1,1-Dichloroethene
Concen: 2.029 ppbv
RT: 2.030 min Scan# 600
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 96 Resp: 21103

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 199.8 | 167.6 | 251.4 |
| 98 | 66.0 | 53.5 | 80.3 |

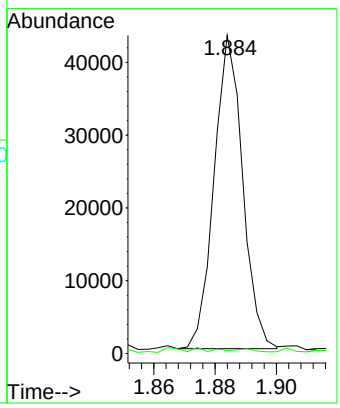





#19
Isopropyl Alcohol
Concen: 1.870 ppbv
RT: 1.884 min Scan# 55
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 45 Resp: 27804

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 3.3 | 36.9 | 55.3# |




**Instrument :**
MSVOA_L
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VSTDICC002

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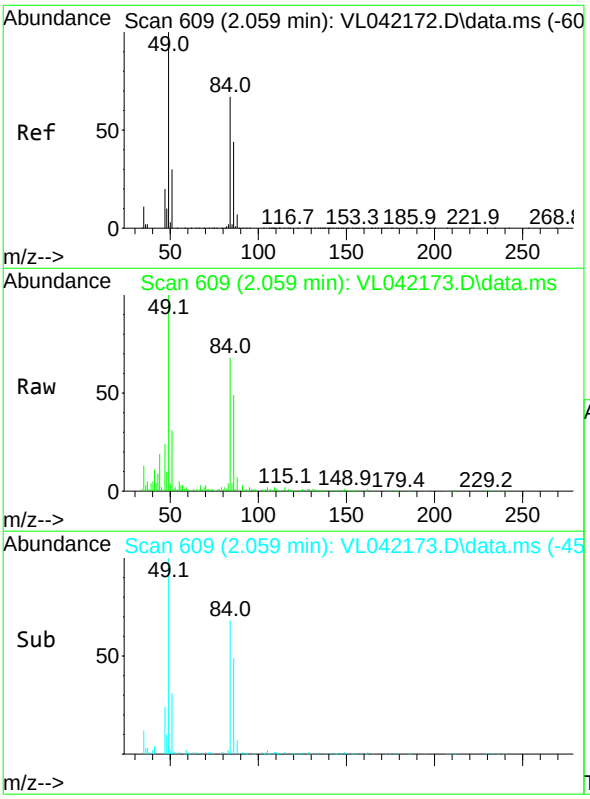
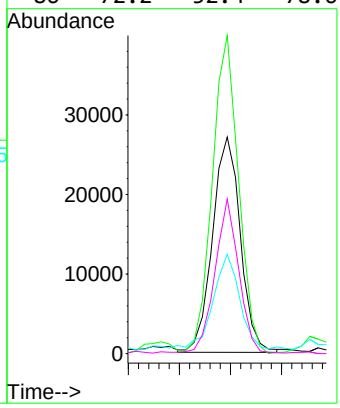
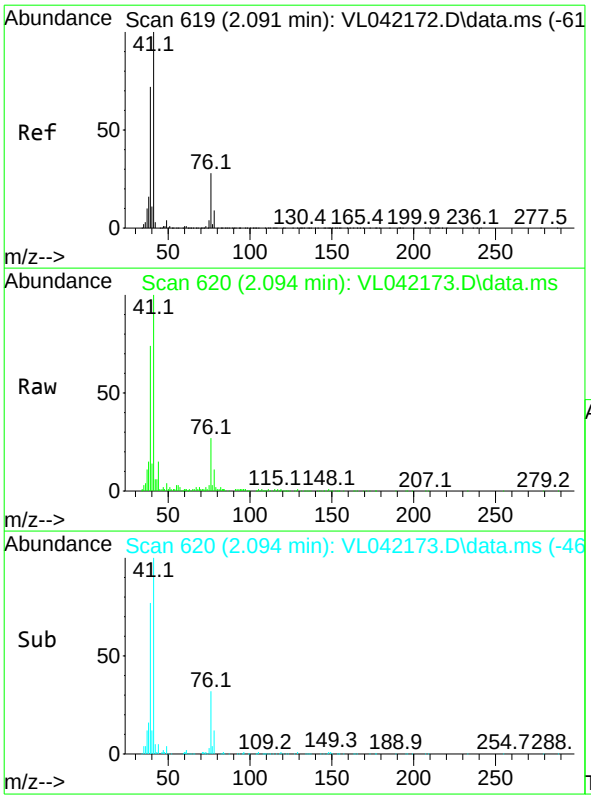



#20
Methylene Chloride
Concen: 2.091 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 84 Resp: 20518

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 148.8 | 120.2 | 180.4 |
| 51 | 43.5 | 37.4 | 56.0 |
| 86 | 72.2 | 52.4 | 78.6 |

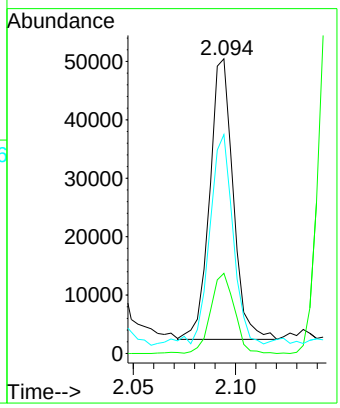





#21
Allyl Chloride
Concen: 2.068 ppbv
RT: 2.094 min Scan# 62
Delta R.T. 0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 41 Resp: 38425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 29.0 | 24.1 | 36.1 |
| 39 | 77.5 | 61.1 | 91.7 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

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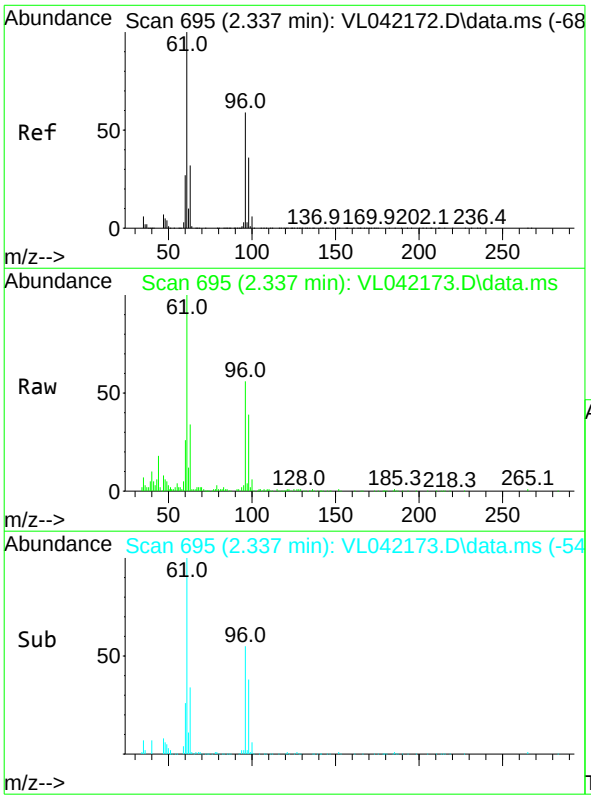
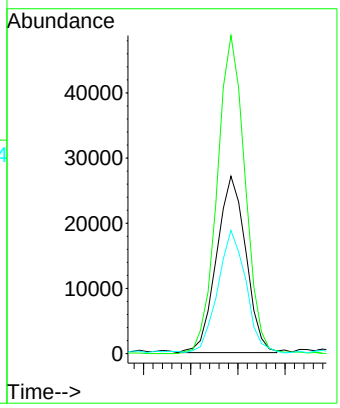
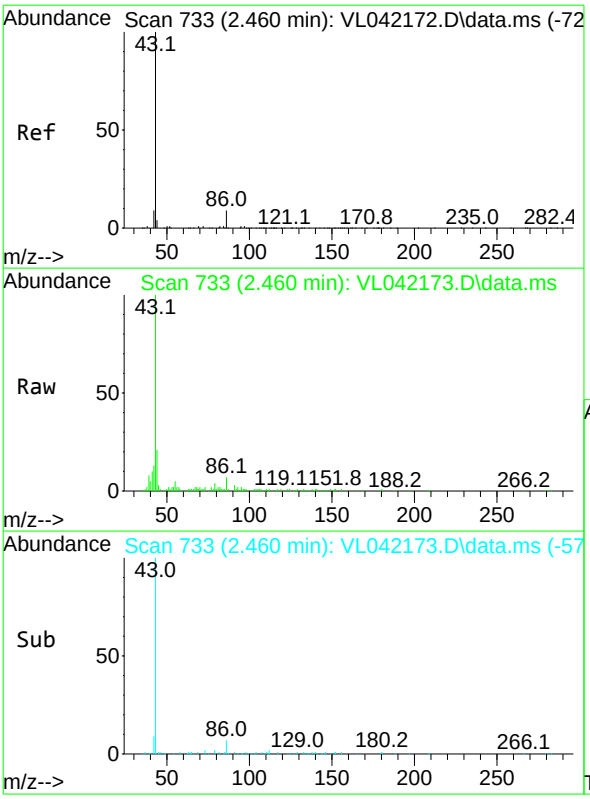



#22
trans-1,2-Dichloroethene
Concen: 1.924 ppbv
RT: 2.337 min Scan# 695
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 96 Resp: 23384

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 180.3 | 136.6 | 204.8 |
| 98 | 68.6 | 49.4 | 74.2 |

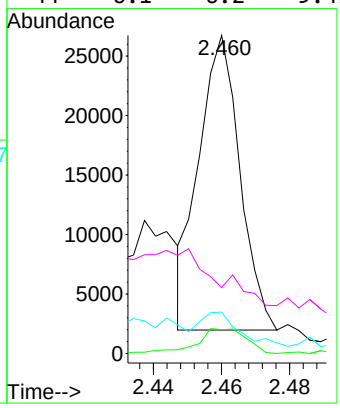





#23
Vinyl Acetate
Concen: 1.894 ppbv
RT: 2.460 min Scan# 73
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 43 Resp: 20736

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 8.1 | 5.5 | 8.3 |
| 42 | 10.4 | 8.6 | 13.0 |
| 44 | 6.1 | 6.2 | 9.4# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

**Manual Integrations**
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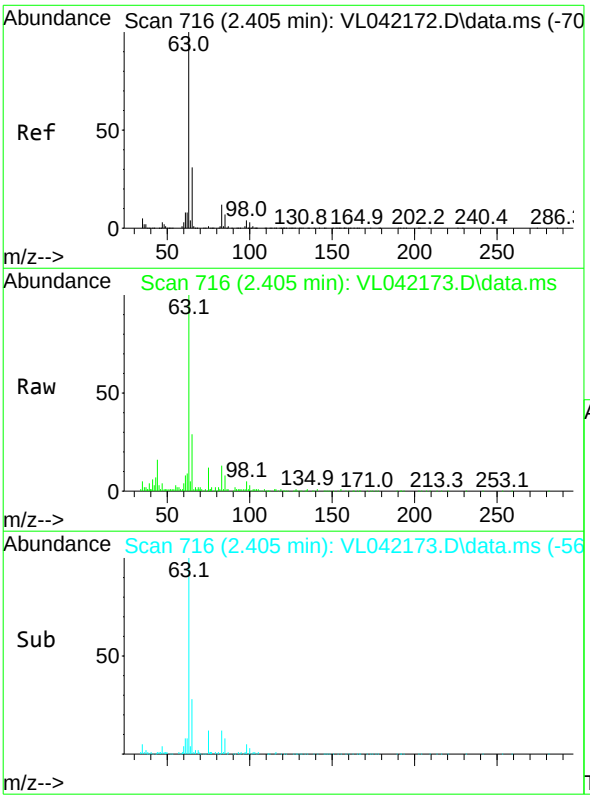
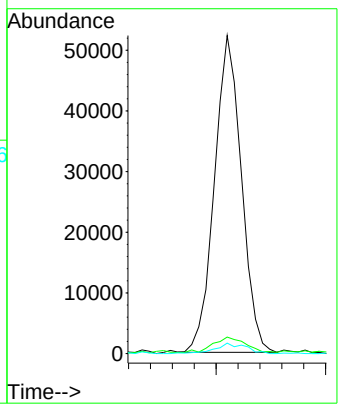
Supervised By :Mahesh Dadoda 04/03/2025

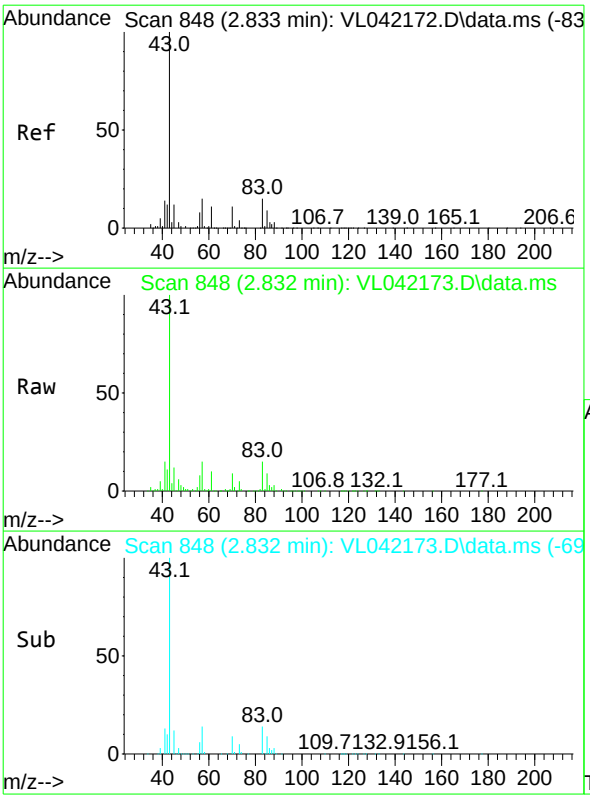



#24
1,1-Dichloroethane
Concen: 2.008 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 63 Resp: 44740

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 4.9 | 2.3 | 6.8 |
| 100 | 3.3 | 1.6 | 4.7 |

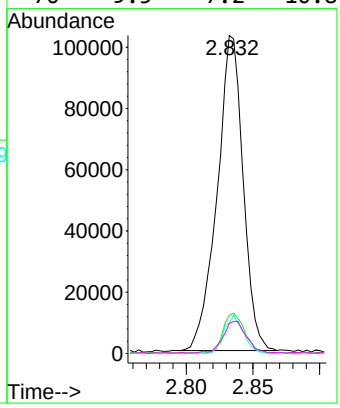





#25
Ethyl Acetate
Concen: 2.040 ppbv
RT: 2.832 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 43 Resp: 139516

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 10.9 | 8.2 | 12.2 |
| 61 | 9.1 | 7.3 | 10.9 |
| 70 | 9.5 | 7.2 | 10.8 |




**Instrument :**
MSVOA_L
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VSTDICC002

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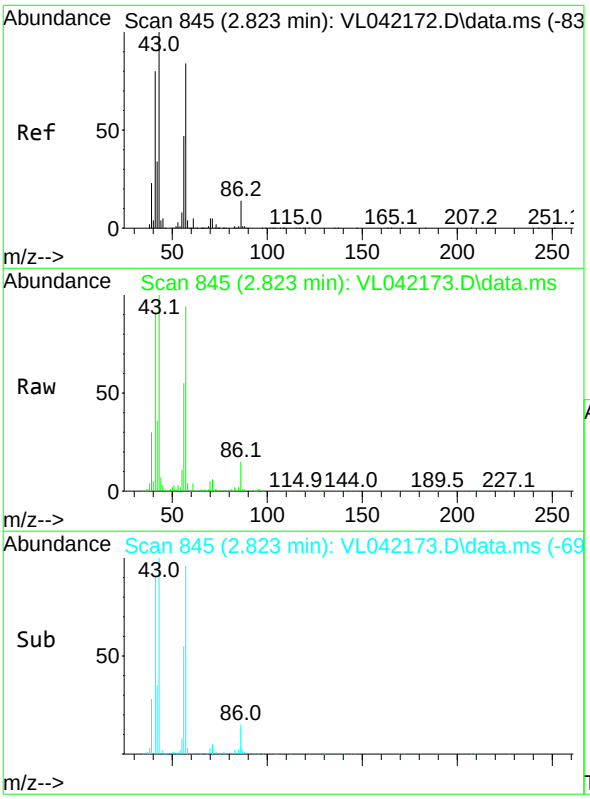
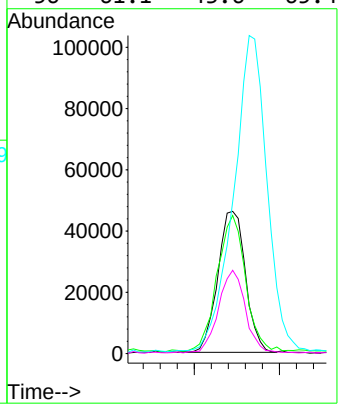
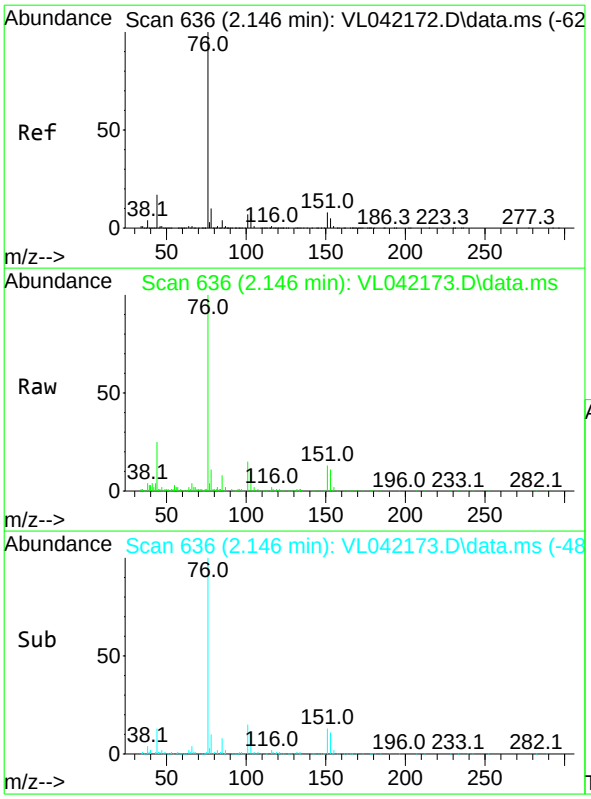



#26
Hexane
Concen: 1.972 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 57 Resp: 52095

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 100.9 | 76.6 | 114.8 |
| 43 | 274.8 | 207.8 | 311.8 |
| 56 | 61.1 | 43.6 | 65.4 |

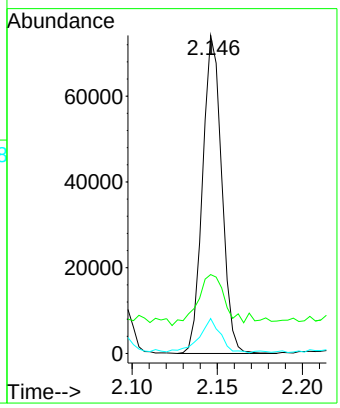





#27
Carbon Disulfide
Concen: 2.047 ppbv
RT: 2.146 min Scan# 63
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 76 Resp: 57969

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 35.2 | 14.7 | 22.1# |
| 78 | 12.0 | 9.3 | 13.9 |




**Instrument :**
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VSTDICC002

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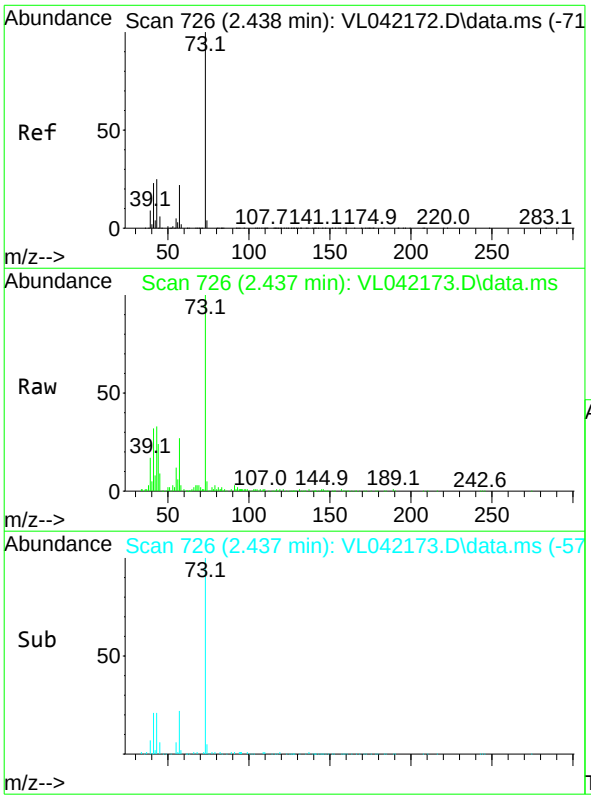
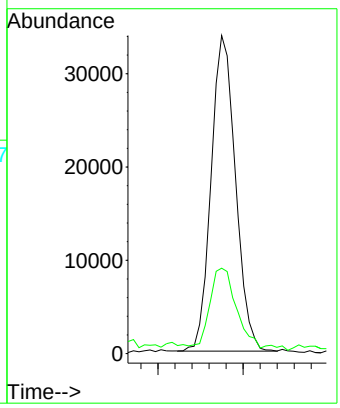
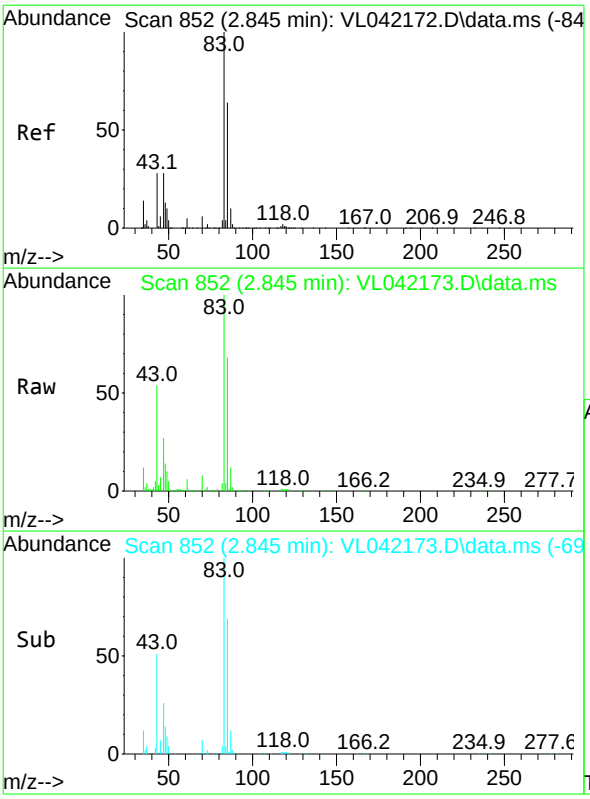



#28
Methyl tert-Butyl Ether
Concen: 2.049 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 73 Resp: 33703

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 25.2 | 20.5 | 30.7 |

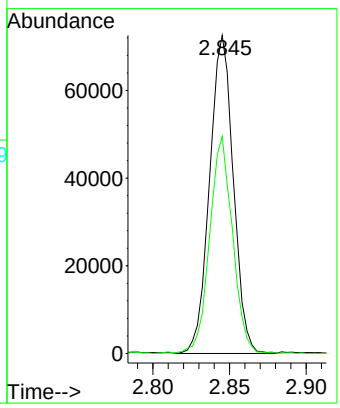





#29
Chloroform
Concen: 2.019 ppbv
RT: 2.845 min Scan# 85
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 83 Resp: 78043

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 68.2 | 51.4 | 77.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

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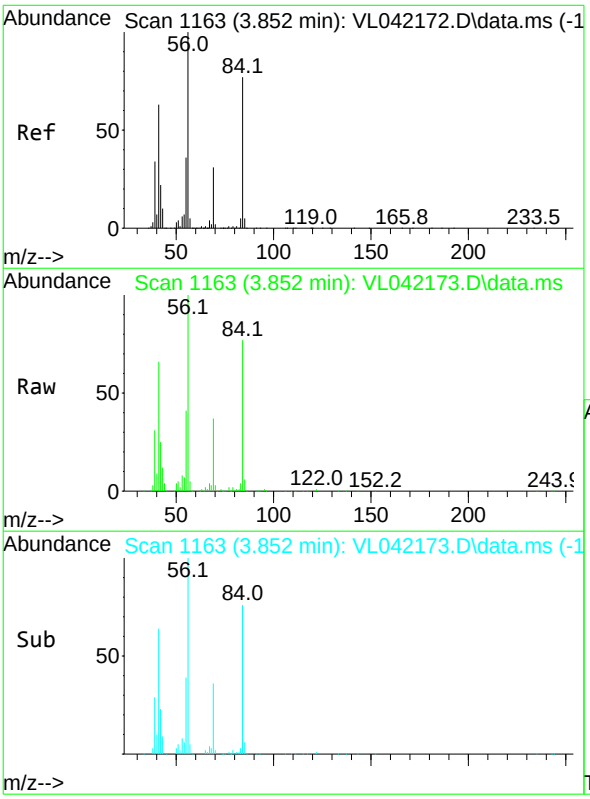
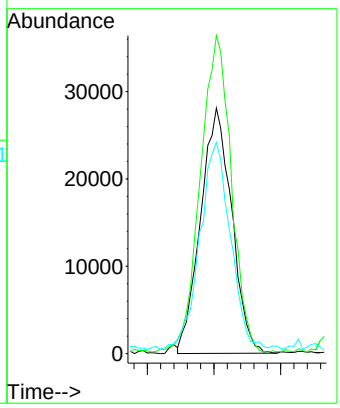
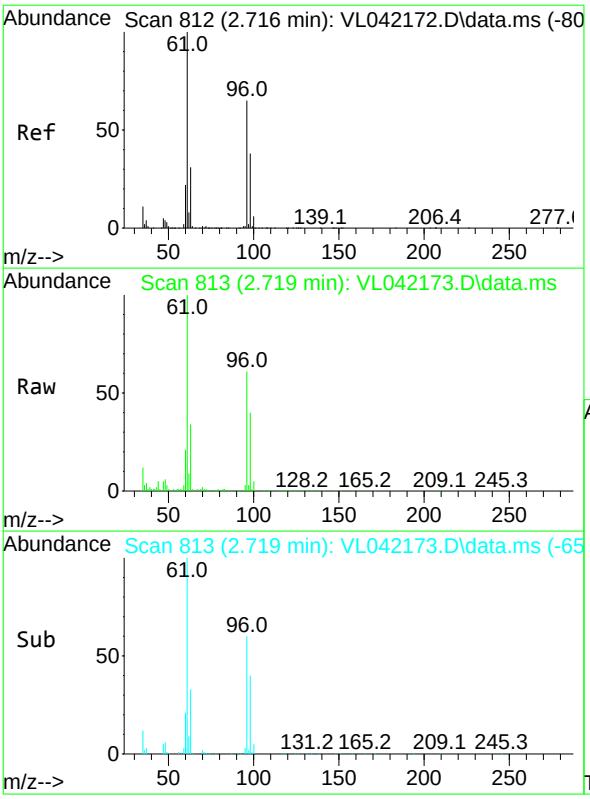



#30
Cyclohexane
Concen: 1.989 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 84 Resp: 45641

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 127.8 | 102.8 | 154.2 |
| 41 | 84.6 | 66.5 | 99.7 |

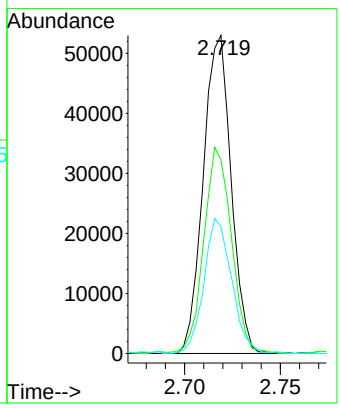





#31
cis-1,2-Dichloroethene
Concen: 2.003 ppbv
RT: 2.719 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 61 Resp: 53713

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 60.6 | 51.8 | 77.8 |
| 98 | 39.6 | 30.6 | 46.0 |




**Instrument :**
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VSTDICC002

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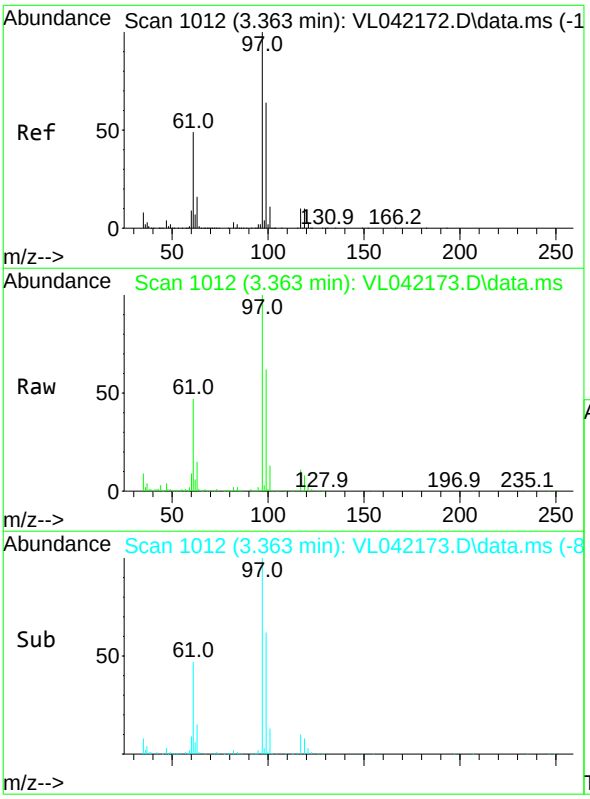
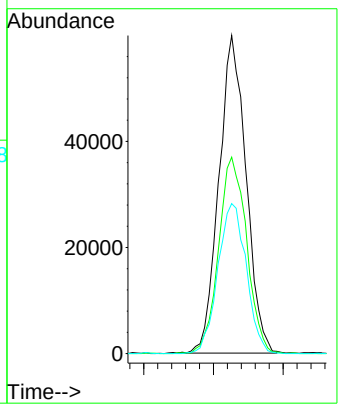
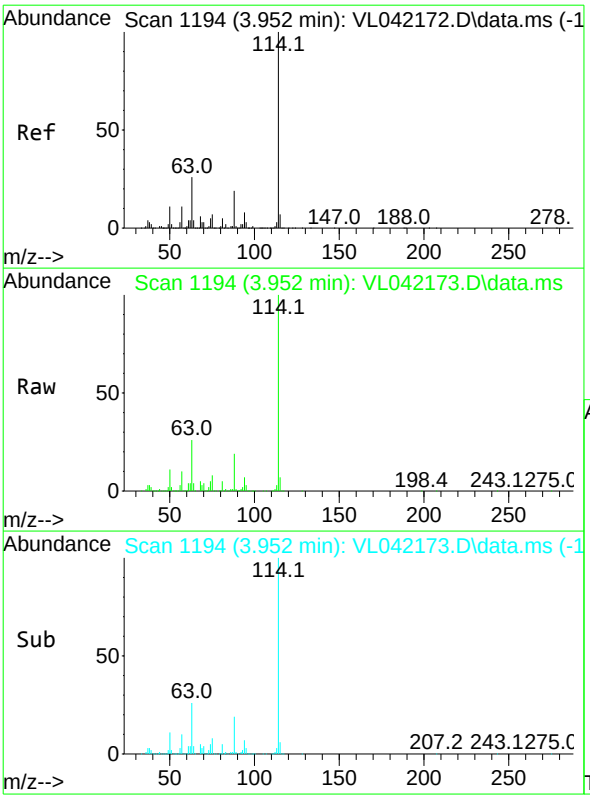



#32
1,1,1-Trichloroethane
Concen: 1.833 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 97 Resp: 81070

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.9 | 51.5 | 77.3 |
| 61 | 49.3 | 38.7 | 58.1 |

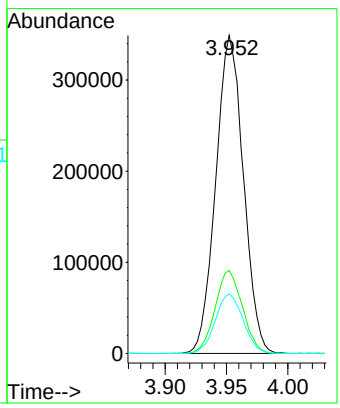





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:114 Resp: 546394

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.9 | 20.7 | 31.1 |
| 88 | 18.9 | 15.0 | 22.4 |




**Instrument :**
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VSTDICC002

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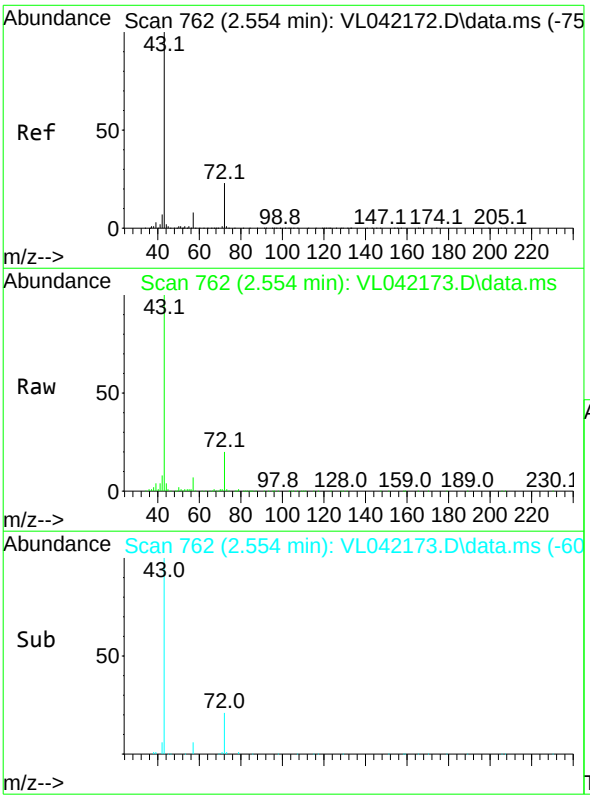
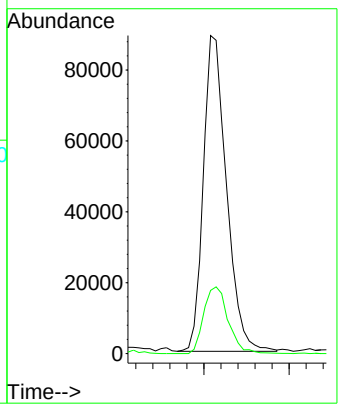
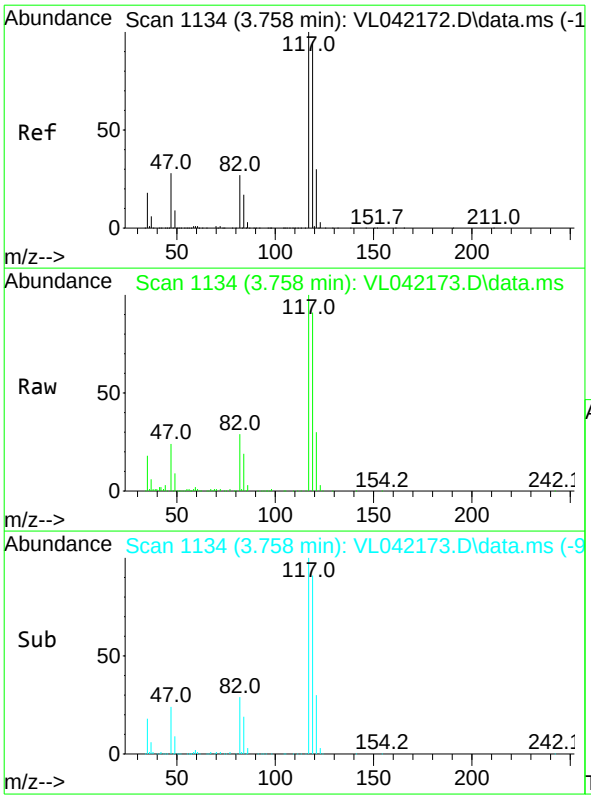



#34
2-Butanone
Concen: 2.124 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 43 Resp: 84157

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 22.4 | 18.2 | 27.2 |

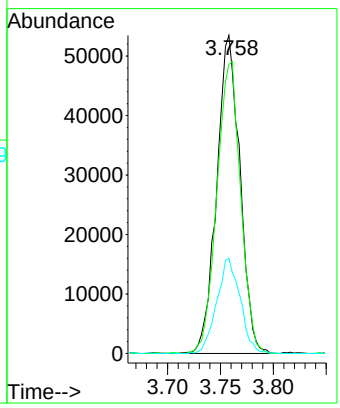





#35
Carbon Tetrachloride
Concen: 1.944 ppbv
RT: 3.758 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:117 Resp: 81735

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 90.8 | 76.2 | 114.2 |
| 121 | 30.0 | 24.2 | 36.4 |

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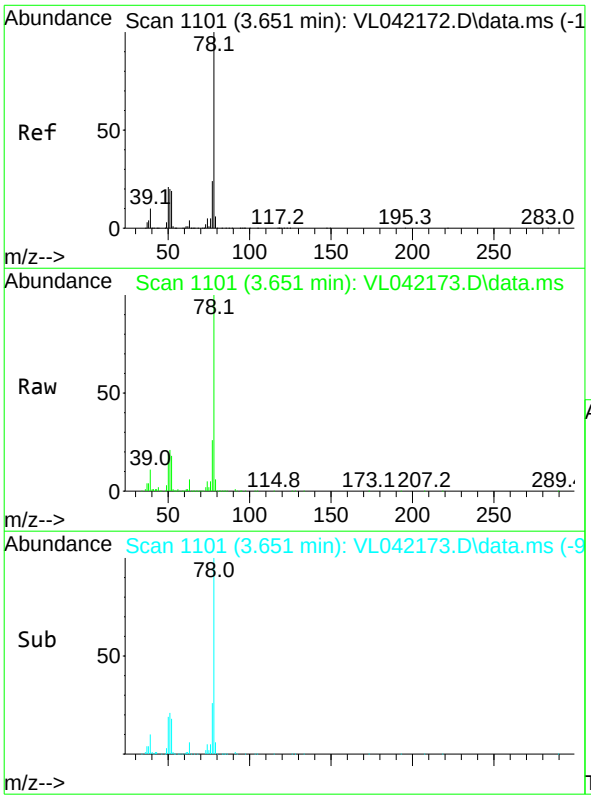
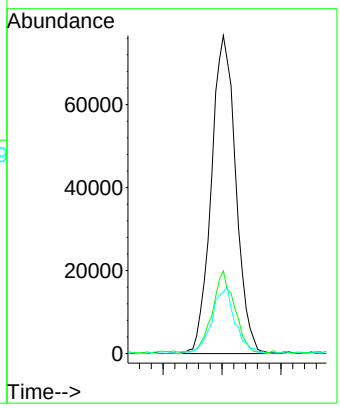
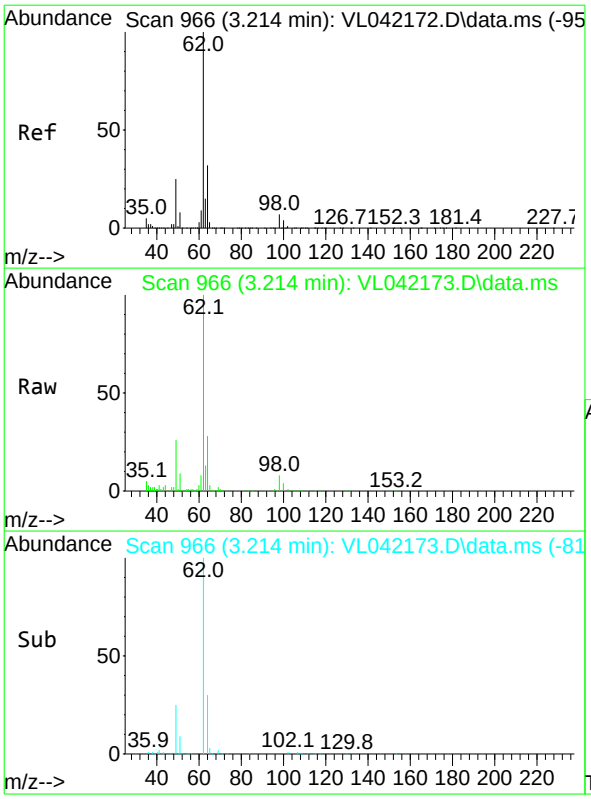



#36
Benzene
Concen: 2.044 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 78 Resp: 110727

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 25.7 | 19.1 | 28.7 |
| 50 | 19.3 | 16.6 | 24.8 |

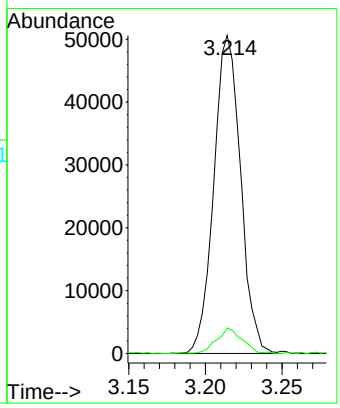





#37
1,2-Dichloroethane
Concen: 1.982 ppbv
RT: 3.214 min Scan# 96
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 62 Resp: 61476

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 7.7 | 5.4 | 8.2 |

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VSTDICC002

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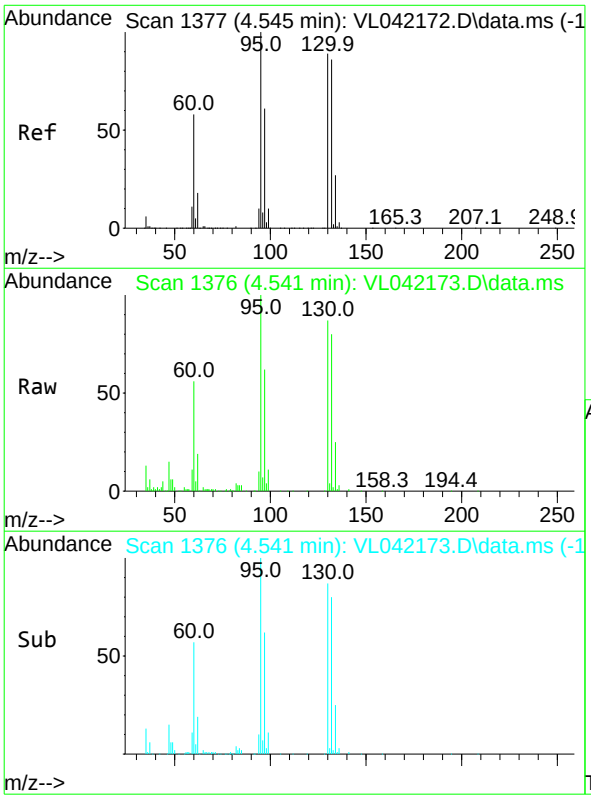
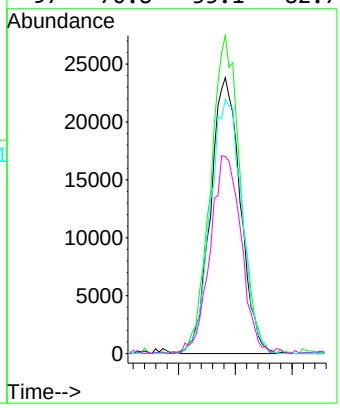
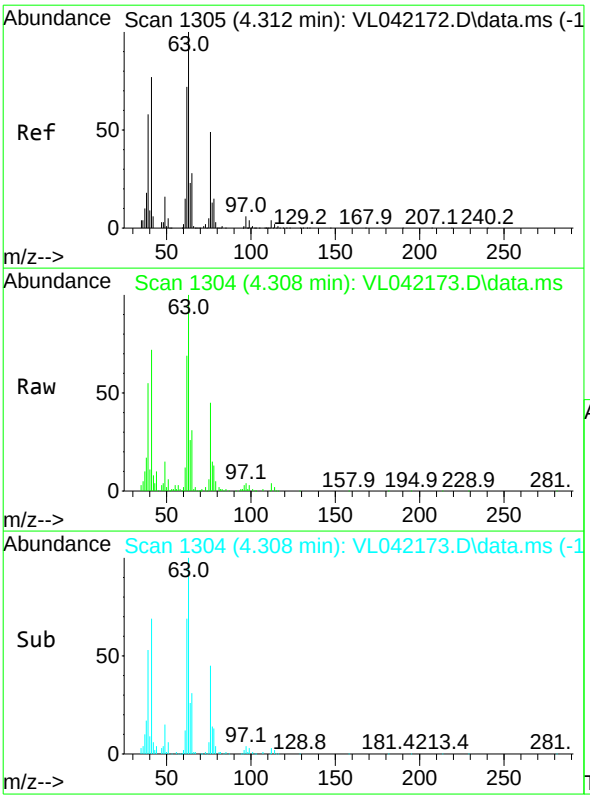



#38
Trichloroethene
Concen: 1.924 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. -0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:130 Resp: 43501

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 114.8 | 89.8 | 134.8 |
| 132 | 92.2 | 77.4 | 116.2 |
| 97 | 70.8 | 55.1 | 82.7 |

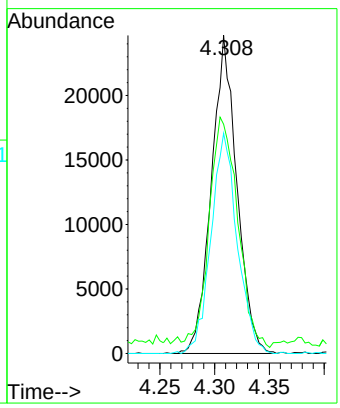





#39
1,2-Dichloropropane
Concen: 2.023 ppbv
RT: 4.308 min Scan# 13
Delta R.T. -0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 63 Resp: 39912

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 68.6 | 61.7 | 92.5 |
| 62 | 69.2 | 57.6 | 86.4 |




**Instrument :**
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VSTDICC002

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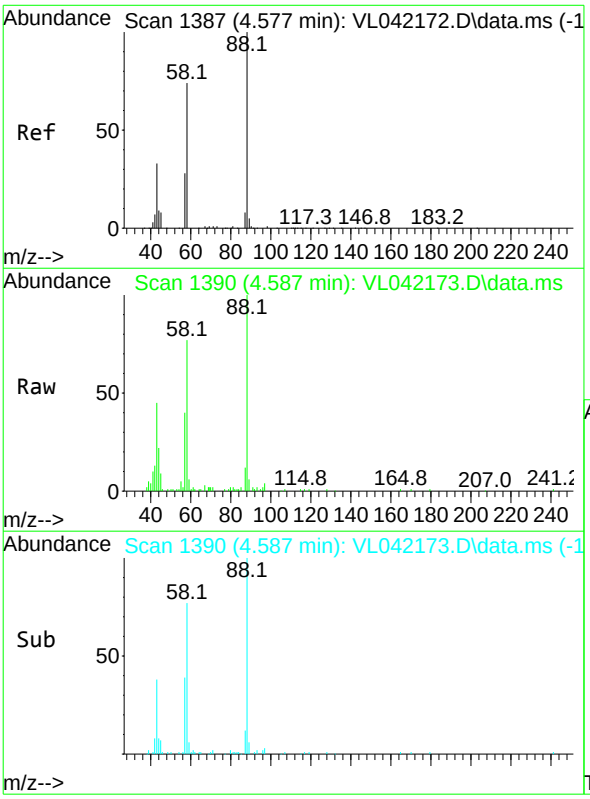
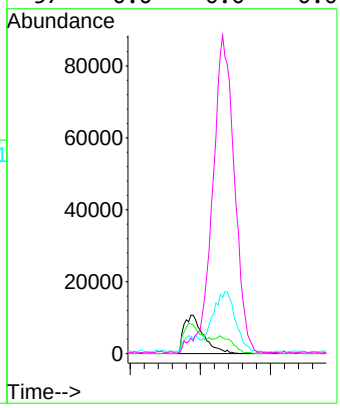
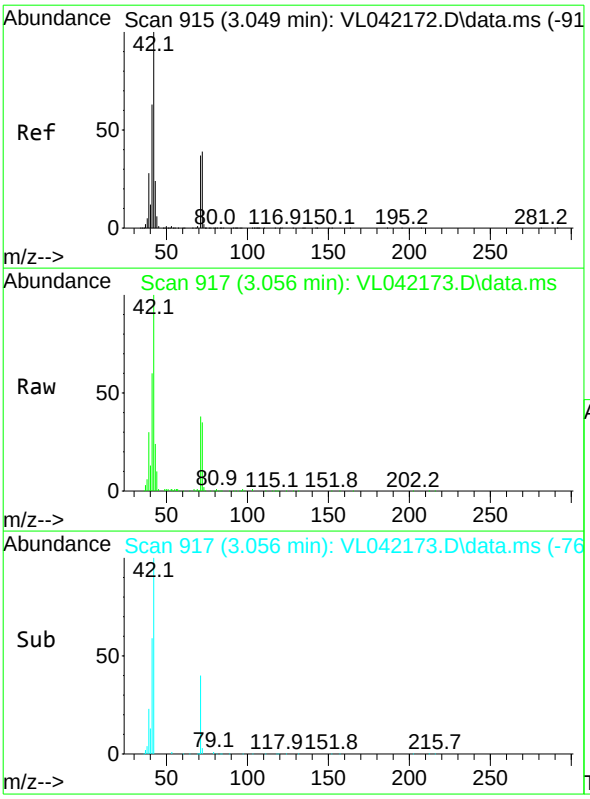



#40
1,4-Dioxane
Concen: 2.040 ppbv m
RT: 4.587 min Scan# 1390
Delta R.T. 0.009 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 88 Resp: 20884

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 119.5 | 62.7 | 94.1# |
| 43 | 0.0 | 23.0 | 34.4# |
| 57 | 0.0 | 0.0 | 0.0 |

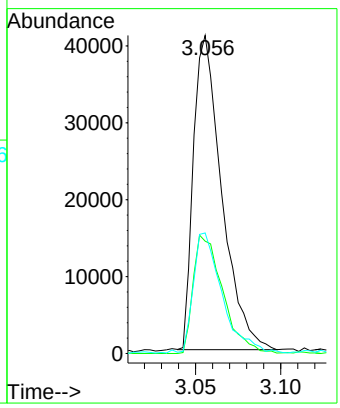





#41
Tetrahydrofuran
Concen: 2.097 ppbv
RT: 3.056 min Scan# 91
Delta R.T. 0.006 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 42 Resp: 47262

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 39.6 | 31.4 | 47.0 |
| 71 | 39.0 | 30.2 | 45.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

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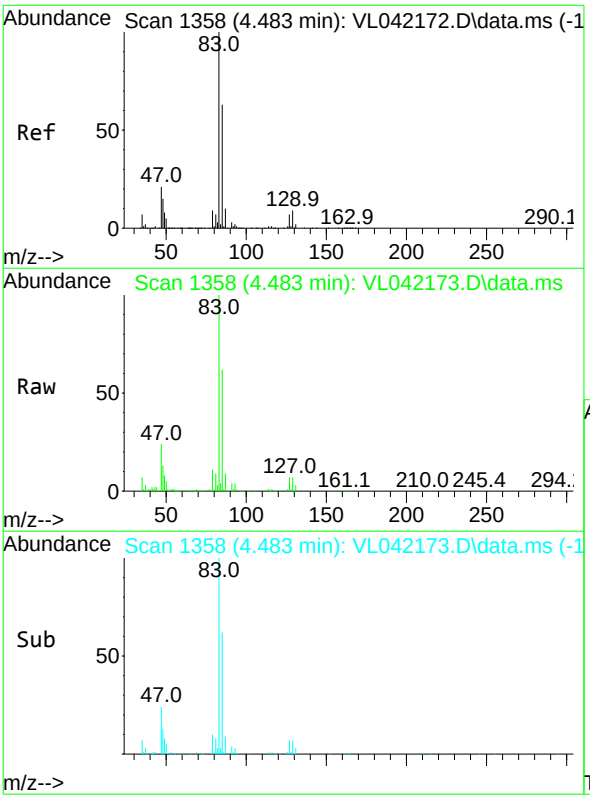
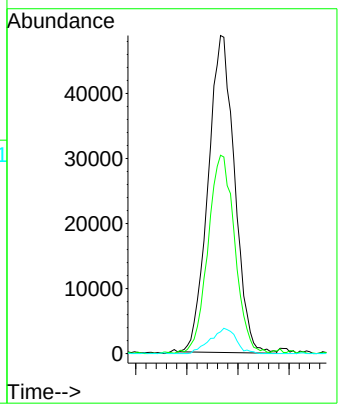
Supervised By :Mahesh Dadoda 04/03/2025

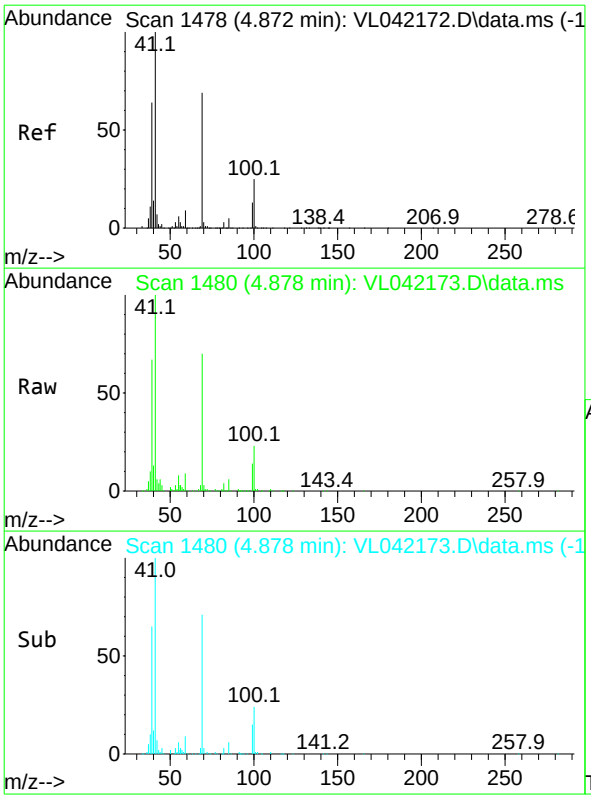



#42
Bromodichloromethane
Concen: 2.050 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 83 Resp: 87640

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.2 | 50.5 | 75.7 |
| 127 | 6.9 | 5.9 | 8.9 |

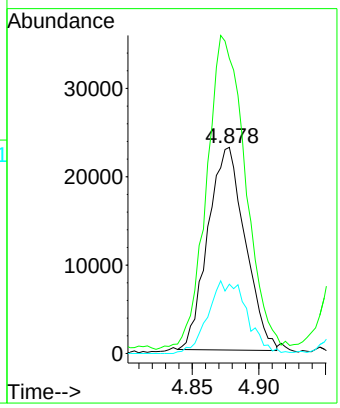





#43
Methyl Methacrylate
Concen: 1.952 ppbv
RT: 4.878 min Scan# 14
Delta R.T. 0.006 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 69 Resp: 44624

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 158.7 | 123.8 | 185.6 |
| 100 | 37.5 | 28.4 | 42.6 |




**Instrument :**
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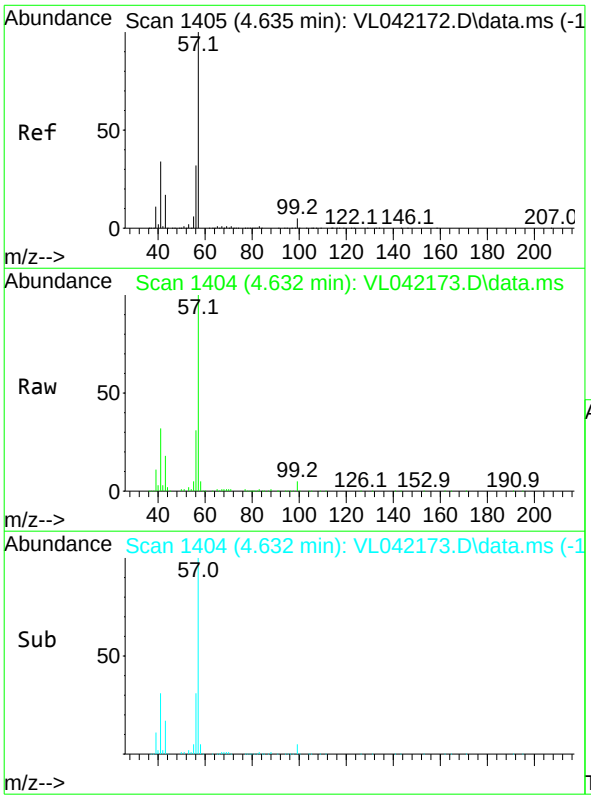
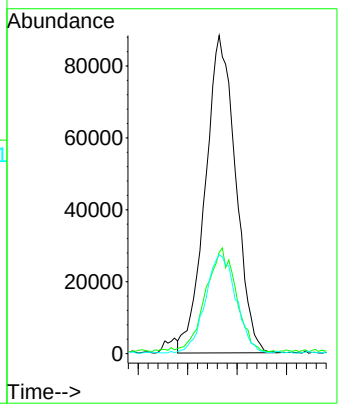
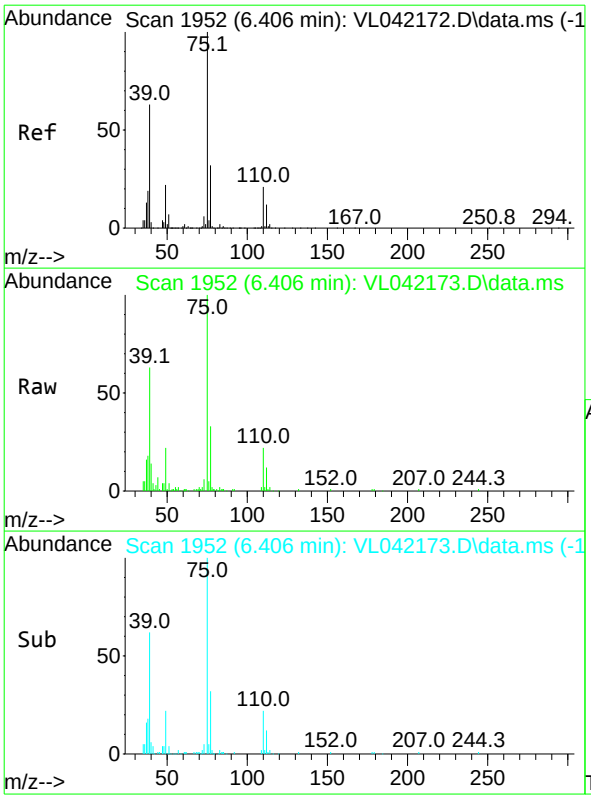



#44
2,2,4-Trimethylpentane
Concen: 2.057 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. -0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 57 Resp: 188282

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 33.8 | 26.8 | 40.2 |
| 56 | 31.8 | 25.6 | 38.4 |

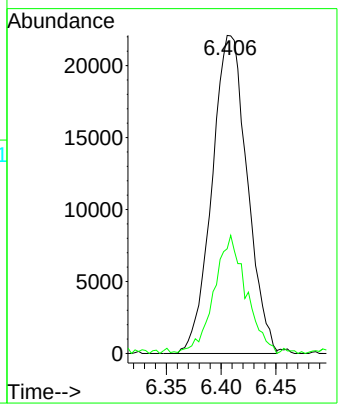





#45
t-1,3-Dichloropropene
Concen: 2.011 ppbv
RT: 6.406 min Scan# 19
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 75 Resp: 49461

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.9 | 26.0 | 39.0 |




**Instrument :**
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VSTDICC002

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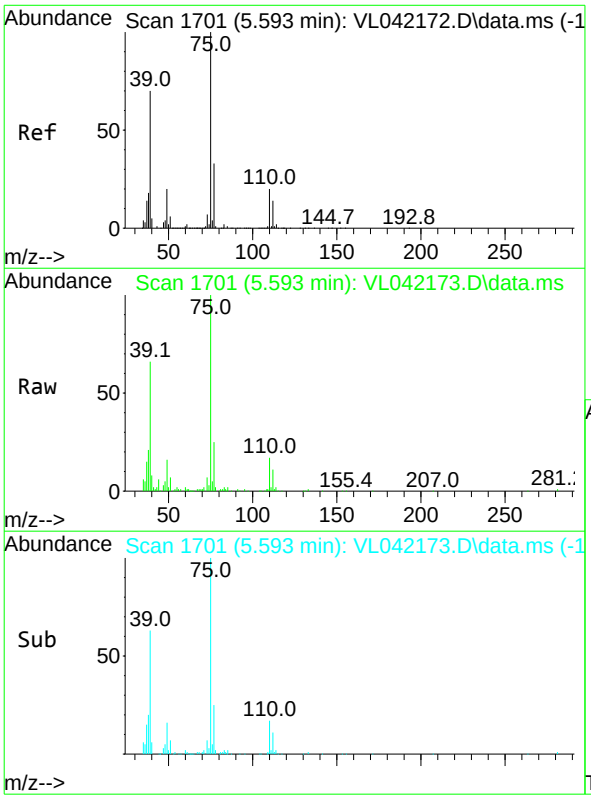
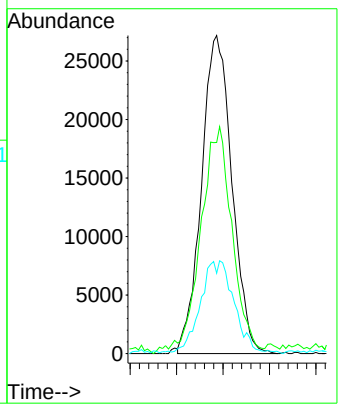
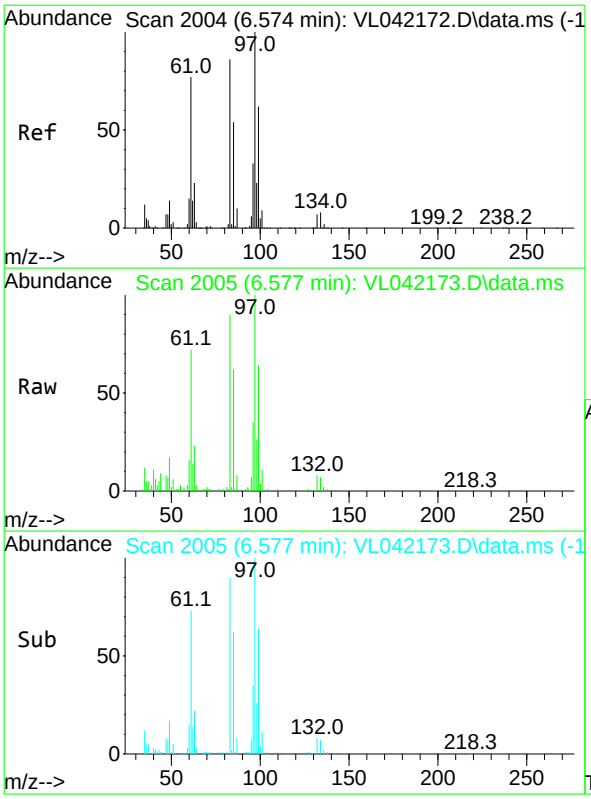



#46
cis-1,3-Dichloropropene
Concen: 2.050 ppbv
RT: 5.593 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 75 Resp: 61829

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 39 | 64.4 | 55.8 | 83.6 |
| 77 | 24.5 | 26.0 | 39.0# |

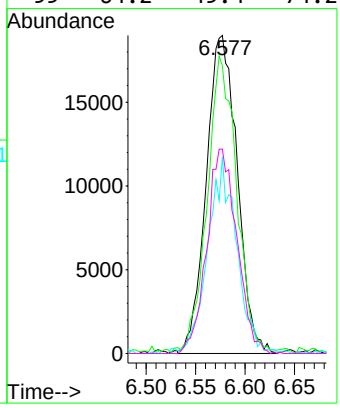





#47
1,1,2-Trichloroethane
Concen: 1.985 ppbv
RT: 6.577 min Scan# 20
Delta R.T. 0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 97 Resp: 41387

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 89.4 | 69.2 | 103.8 |
| 85 | 61.3 | 43.1 | 64.7 |
| 99 | 64.2 | 49.4 | 74.2 |




**Instrument :**
MSVOA_L
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VSTDICC002

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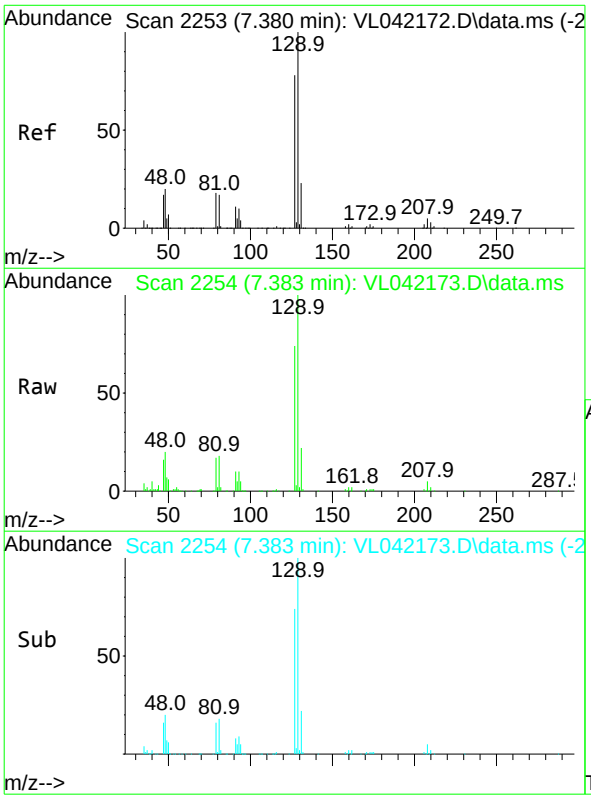
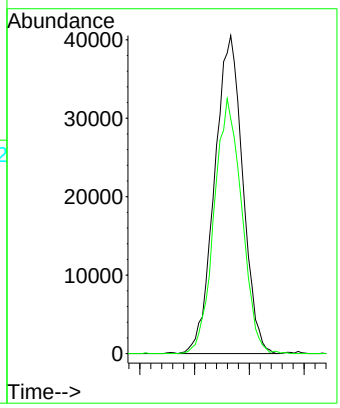
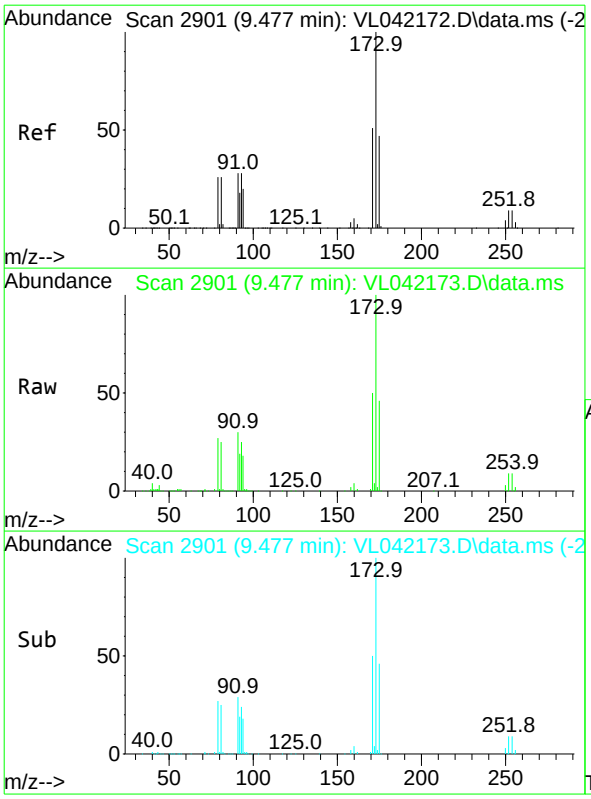



#48
Dibromochloromethane
Concen: 2.050 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. 0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:129 Resp: 72441

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.5 | 39.1 | 117.2 |

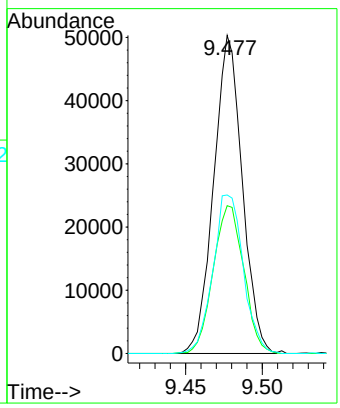





#49
Bromoform
Concen: 2.056 ppbv
RT: 9.477 min Scan# 29
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:173 Resp: 65221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.7 | 38.6 | 57.8 |
| 171 | 53.0 | 41.8 | 62.6 |




**Instrument :**
MSVOA_L
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VSTDICC002

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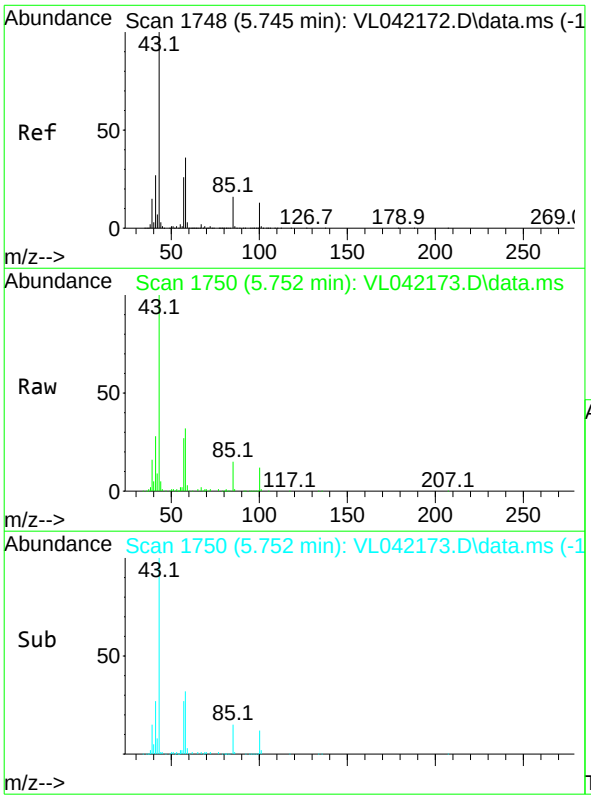
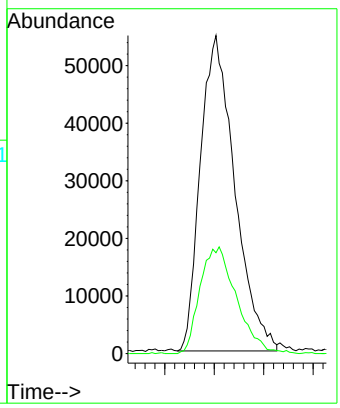
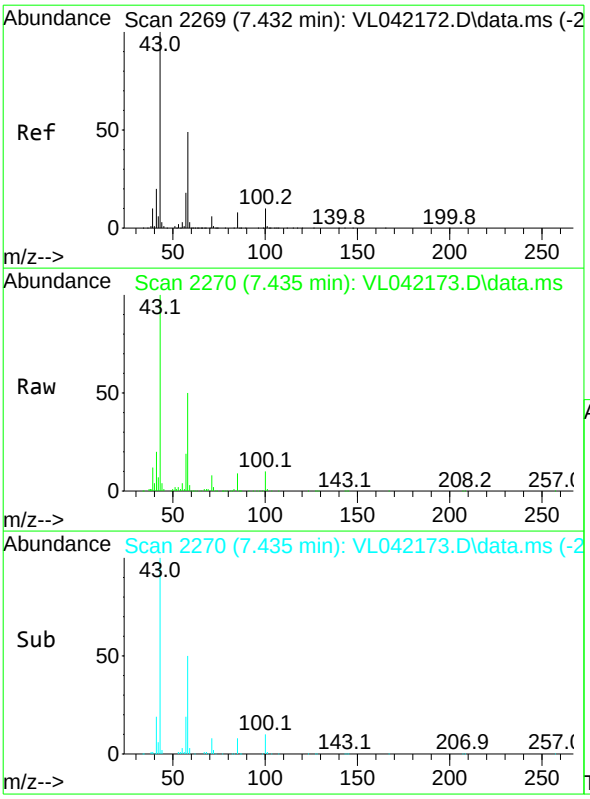



#50
4-Methyl-2-Pentanone
Concen: 2.107 ppbv
RT: 5.752 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 43 Resp: 132328

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 35.9 | 29.0 | 43.6 |

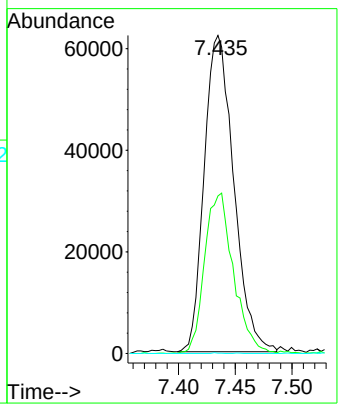





#51
2-Hexanone
Concen: 2.162 ppbv
RT: 7.435 min Scan# 22
Delta R.T. 0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 43 Resp: 112681

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 50.0 | 39.7 | 59.5 |
| 98 | 0.0 | 0.1 | 0.1# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

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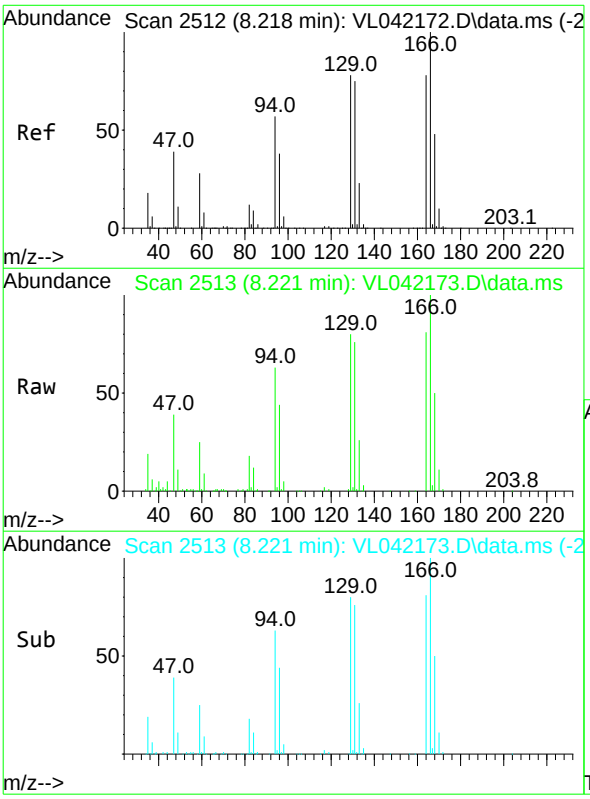
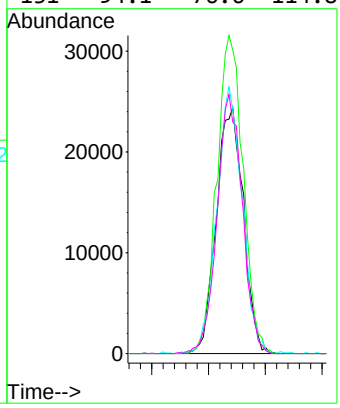
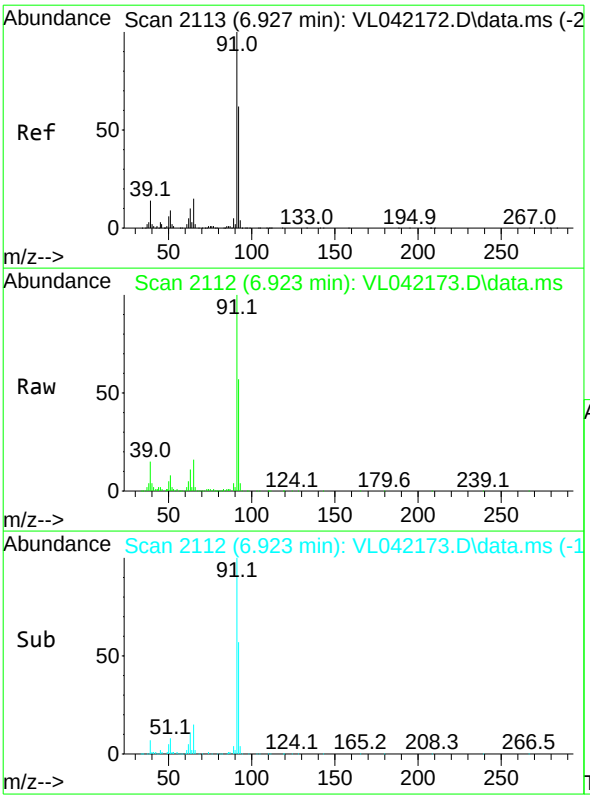



#52
Tetrachloroethene
Concen: 1.888 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. 0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:164 Resp: 40558

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 123.4 | 102.5 | 153.7 |
| 129 | 99.2 | 79.8 | 119.8 |
| 131 | 94.1 | 76.6 | 114.8 |

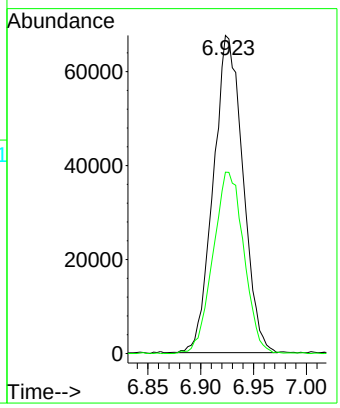





#53
Toluene
Concen: 2.045 ppbv
RT: 6.923 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 91 Resp: 131314

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 59.6 | 48.4 | 72.6 |




**Instrument :**
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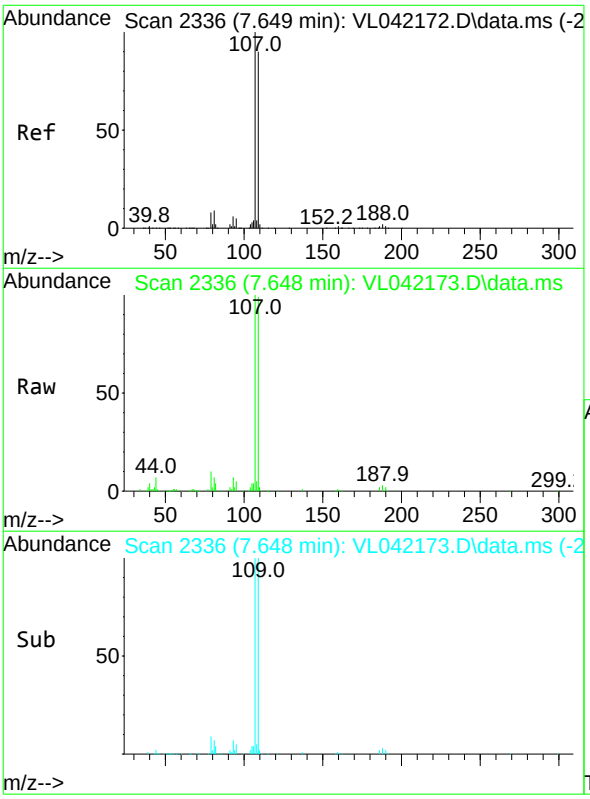
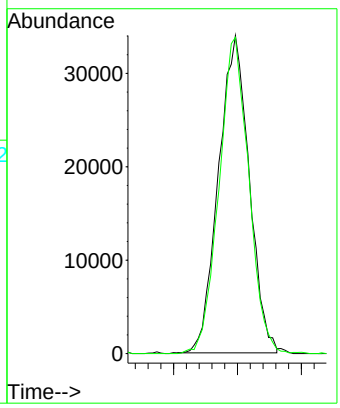
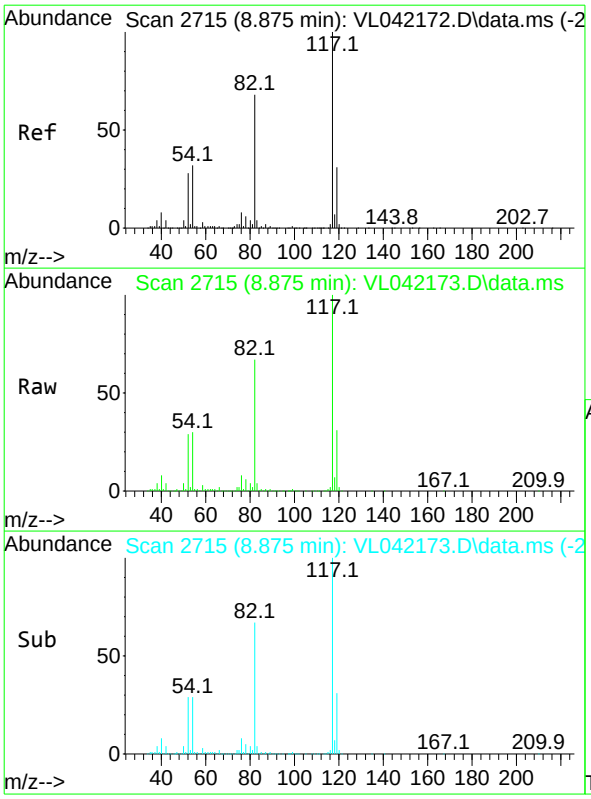



#54
1,2-Dibromoethane
Concen: 1.952 ppbv
RT: 7.648 min Scan# 2336
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:107 Resp: 56799

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 99.7 | 72.2 | 108.4 |

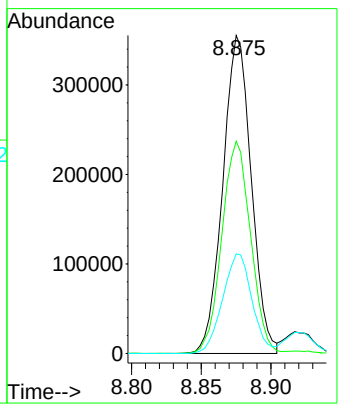





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 27
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:117 Resp: 504538

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 68.2 | 55.8 | 83.6 |
| 119 | 33.0 | 25.5 | 38.3 |




**Instrument :**
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VSTDICC002

**Manual Integrations**
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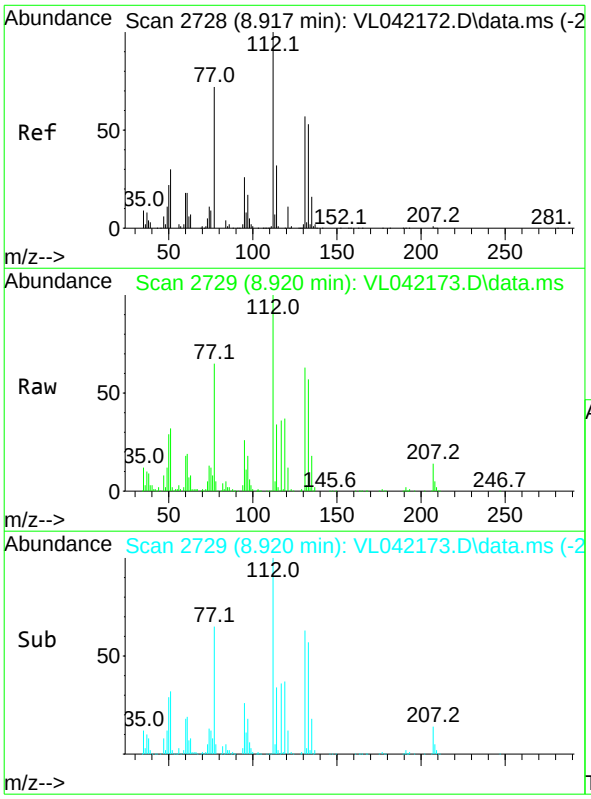
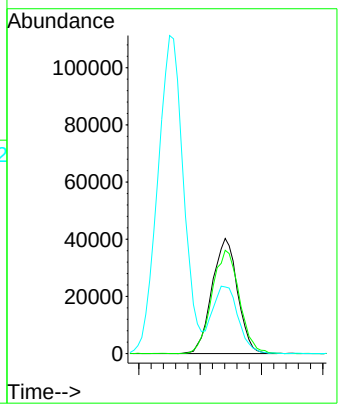
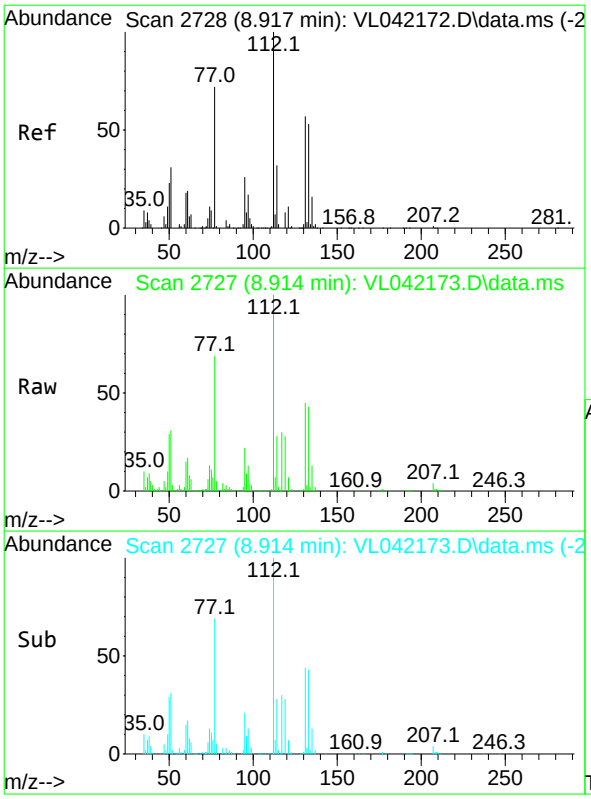



#56
1,1,1,2-Tetrachloroethane
Concen: 2.093 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. 0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:131 Resp: 58141

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 96.6 | 76.6 | 114.8 |
| 119 | 58.3 | 49.8 | 74.6 |

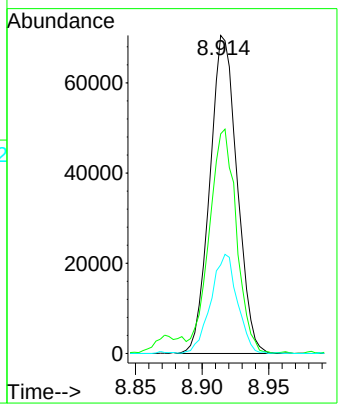





#57
Chlorobenzene
Concen: 2.096 ppbv
RT: 8.914 min Scan# 27
Delta R.T. -0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:112 Resp: 100308

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 68.8 | 58.2 | 87.2 |
| 114 | 27.8 | 29.1 | 35.5# |




**Instrument :**
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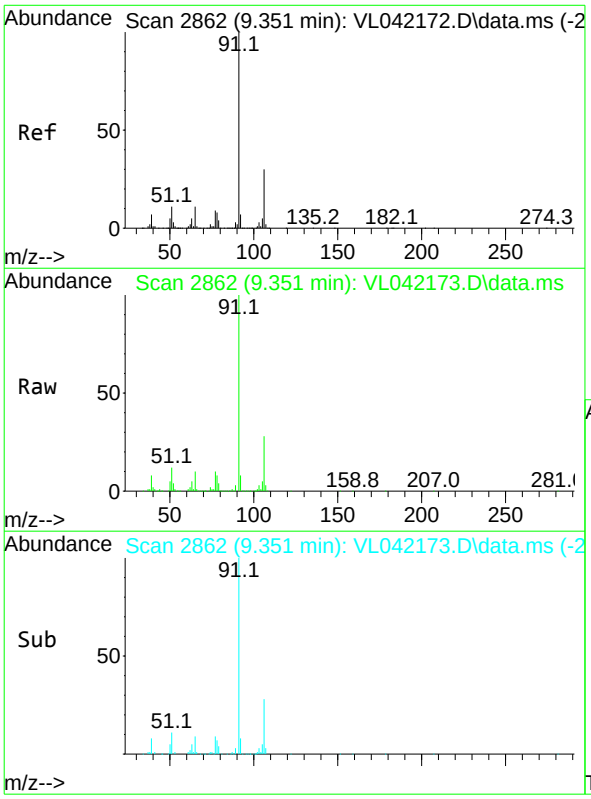
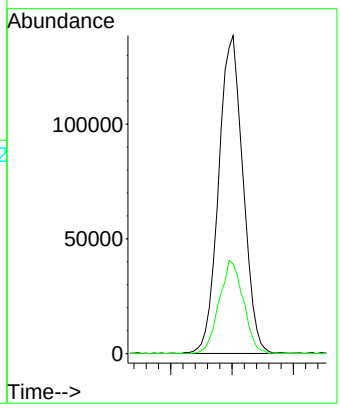
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

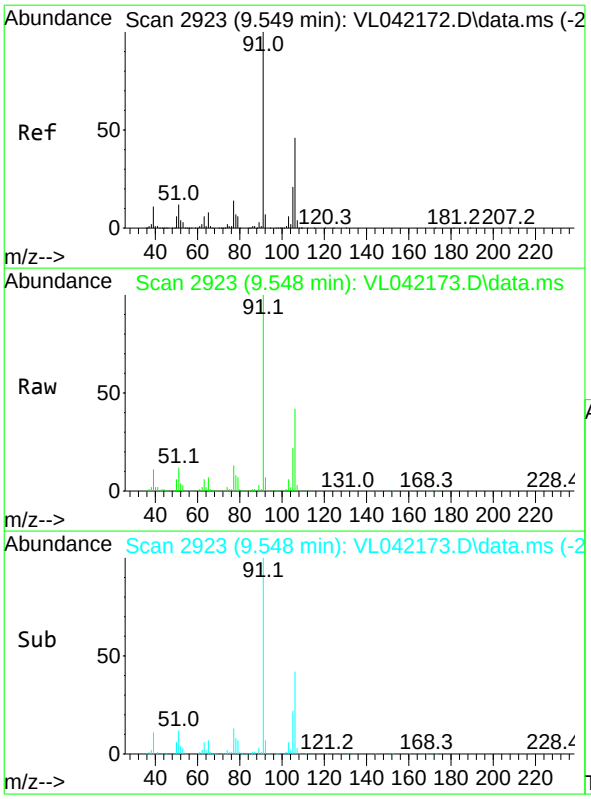



#58
Ethyl Benzene
Concen: 2.132 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 91 Resp: 191114

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 28.3 | 24.2 | 36.2 |

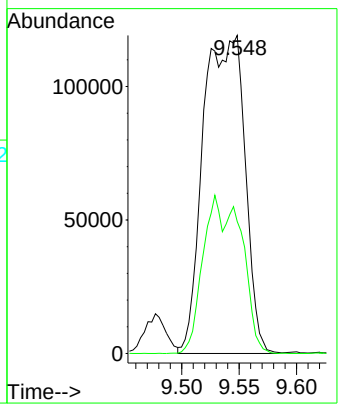





#59
m/p-Xylene
Concen: 4.181 ppbv m
RT: 9.548 min Scan# 29
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 91 Resp: 299531

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 0.0 | 36.4 | 54.6# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

**Manual Integrations**
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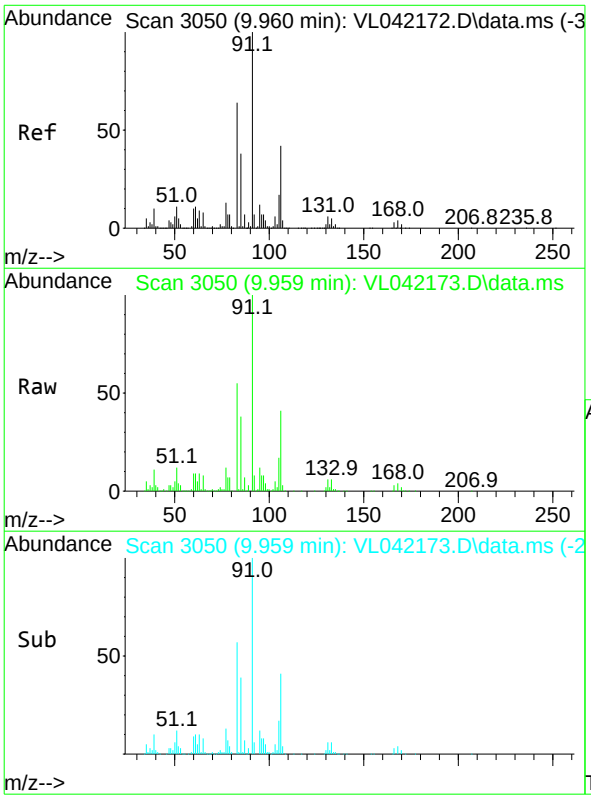
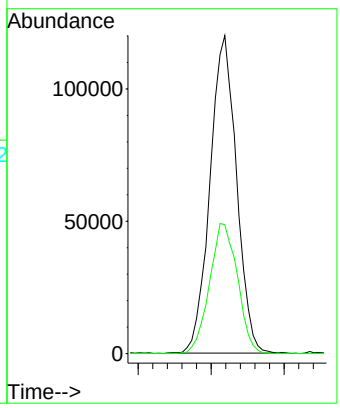
Supervised By :Mahesh Dadoda 04/03/2025

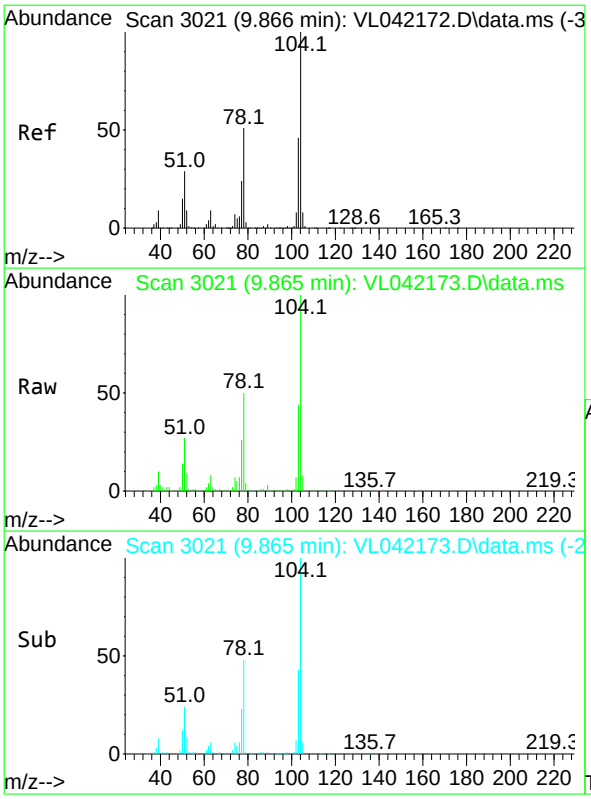



#60
o-Xylene
Concen: 2.109 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 91 Resp: 151292

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 43.2 | 20.8 | 62.5 |

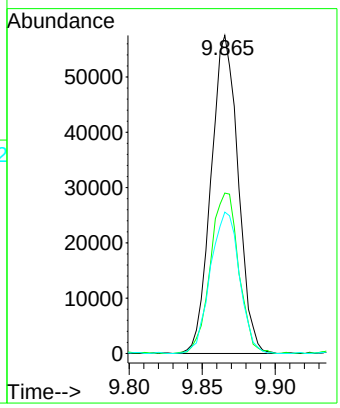





#61
Styrene
Concen: 2.089 ppbv
RT: 9.865 min Scan# 30
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:104 Resp: 74134

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 52.8 | 41.8 | 62.6 |
| 103 | 47.8 | 37.0 | 55.4 |

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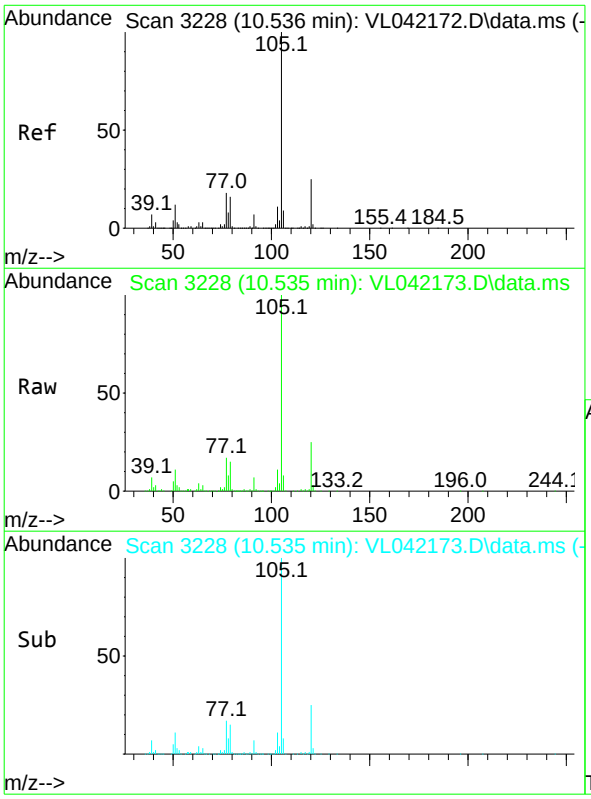
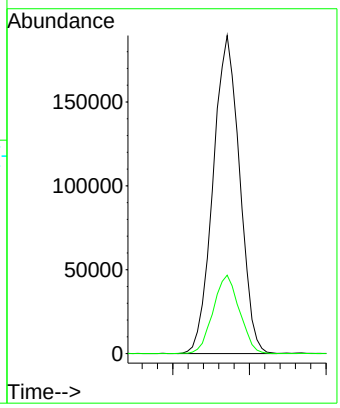
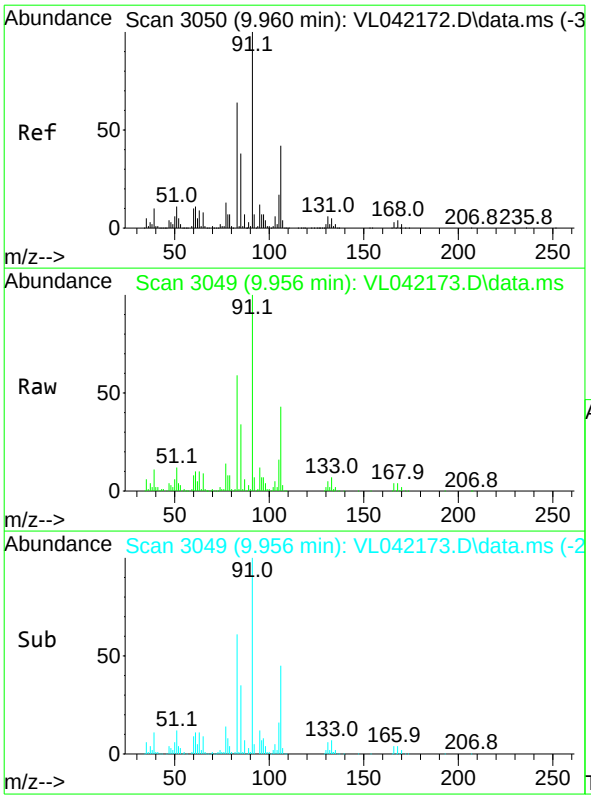



#62
Isopropylbenzene
Concen: 2.127 ppbv
RT: 10.535 min Scan# 3228
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:105 Resp: 228191

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 24.4 | 19.9 | 29.9 |

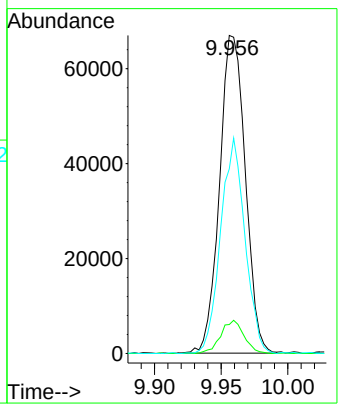





#63
1,1,2,2-Tetrachloroethane
Concen: 2.067 ppbv
RT: 9.956 min Scan# 30
Delta R.T. -0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 83 Resp: 90114

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.5 | 4.8 | 14.4 |
| 85 | 64.4 | 32.5 | 97.5 |




**Instrument :**
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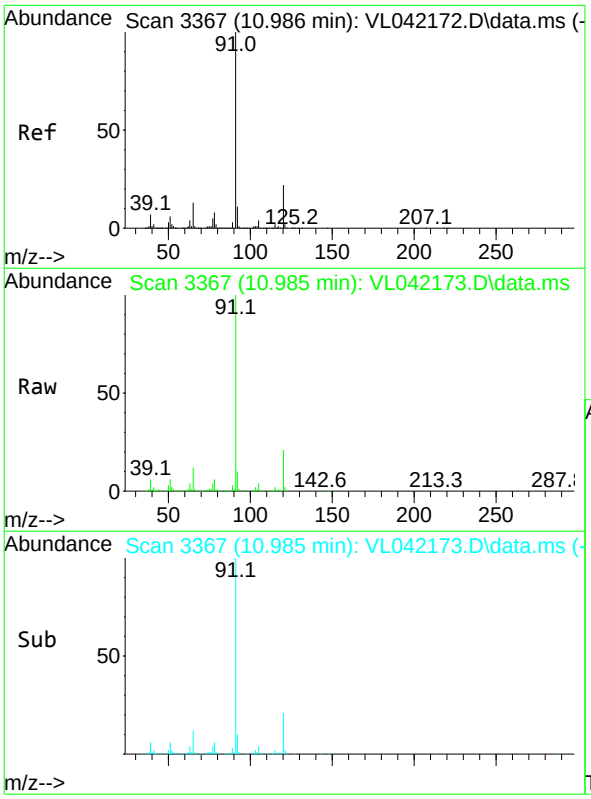
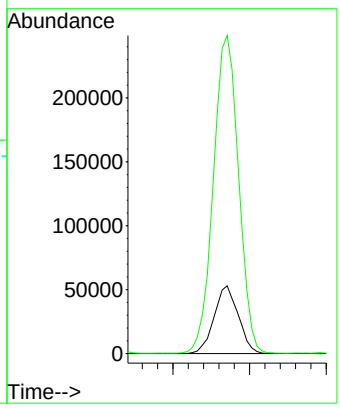
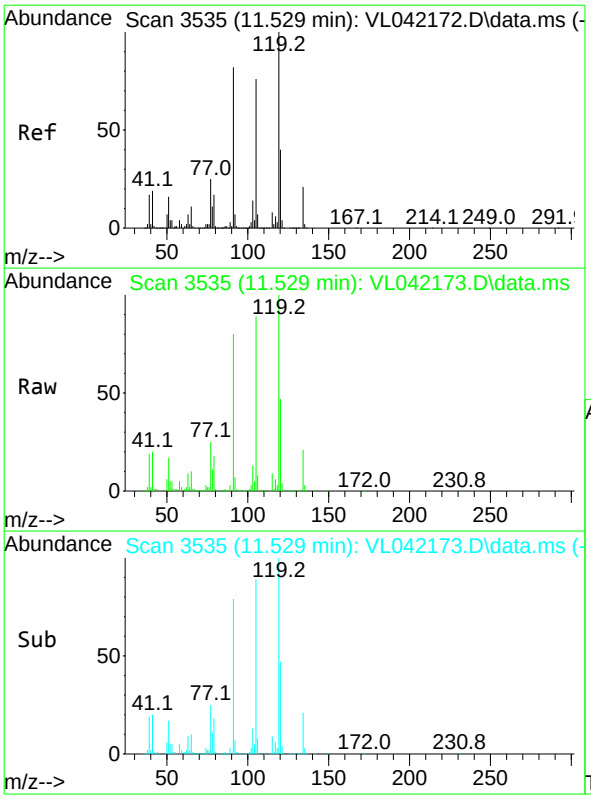



#64
n-propylbenzene
Concen: 2.104 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:120 Resp: 58105

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 491.1 | 376.9 | 565.3 |






#65
tert-Butylbenzene
Concen: 2.180 ppbv
RT: 11.529 min Scan# 35
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:119 Resp: 216336

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 81.5 | 66.0 | 99.0 |
| 134 | 20.2 | 16.7 | 25.1 |

**Instrument :**
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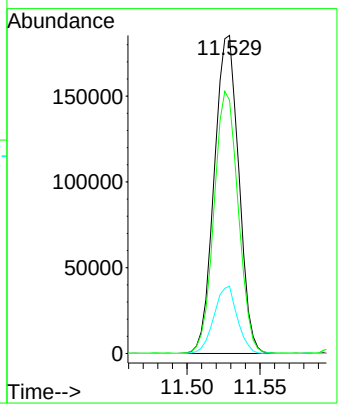
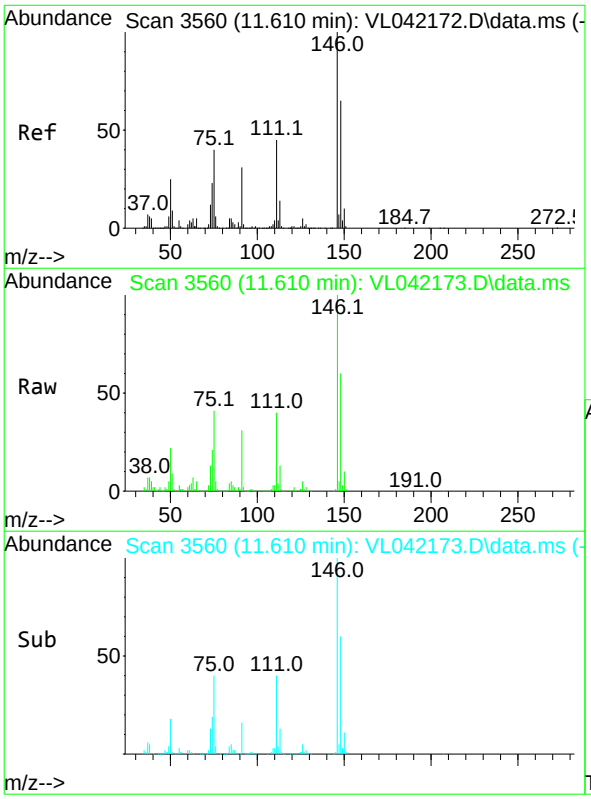
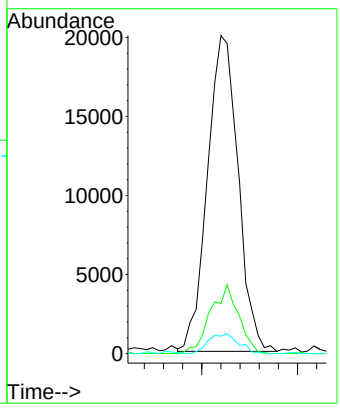


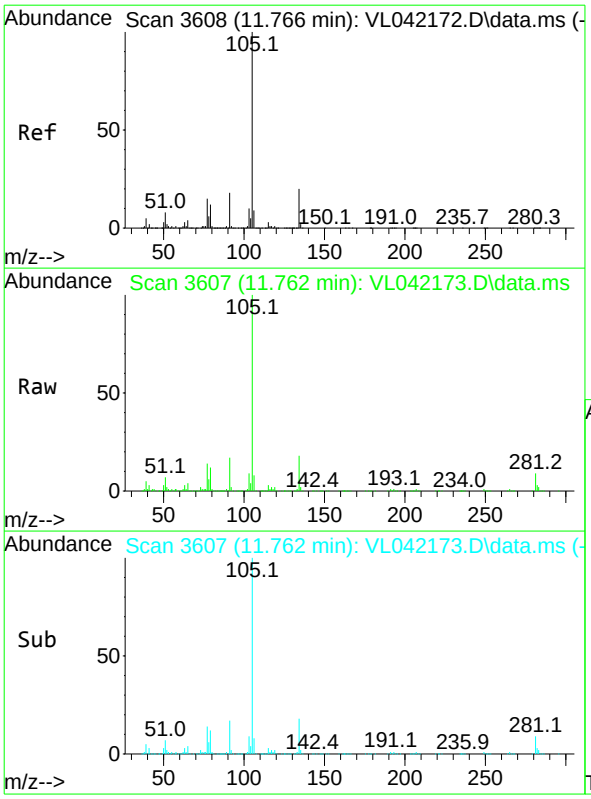




#66
Benzyl Chloride
Concen: 2.116 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 91 Resp: 22272

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 20.0 | 13.8 | 20.6 |
| 128 | 6.5 | 4.5 | 6.7 |

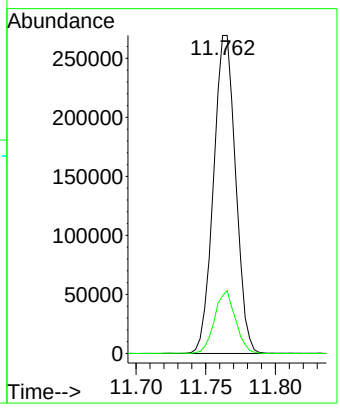





#67
sec-Butylbenzene
Concen: 2.156 ppbv
RT: 11.762 min Scan# 36
Delta R.T. -0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:105 Resp: 297381

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 18.8 | 15.5 | 23.3 |

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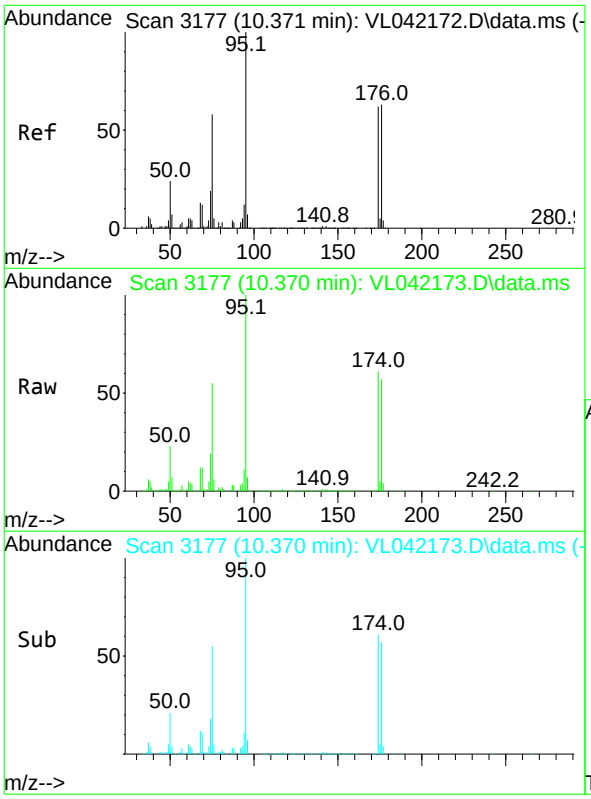
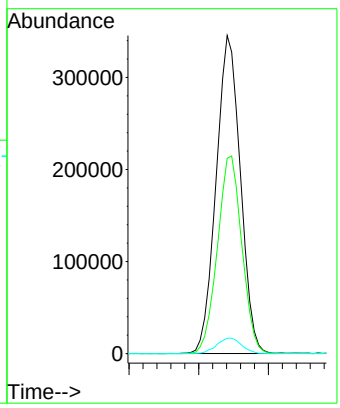
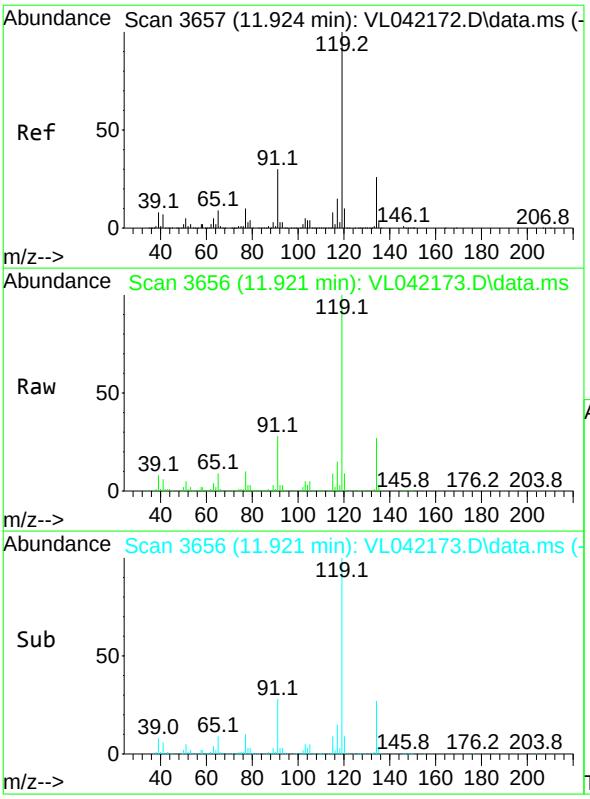



#68
1-Bromo-4-Fluorobenzene
Concen: 10.077 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 95 Resp: 417532

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 62.6 | 50.6 | 76.0 |
| 175 | 5.0 | 3.8 | 5.6 |






#69
p-Isopropyltoluene
Concen: 2.176 ppbv
RT: 11.921 min Scan# 36
Delta R.T. -0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:119 Resp: 258357

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.2 | 20.4 | 30.6 |
| 91 | 29.5 | 23.7 | 35.5 |

**Instrument :**
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VSTDICC002

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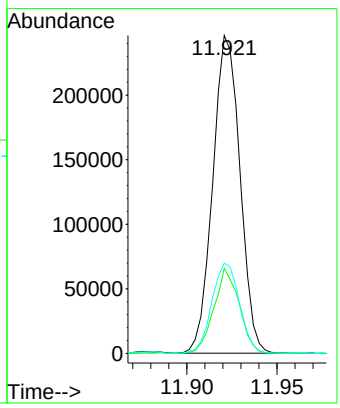
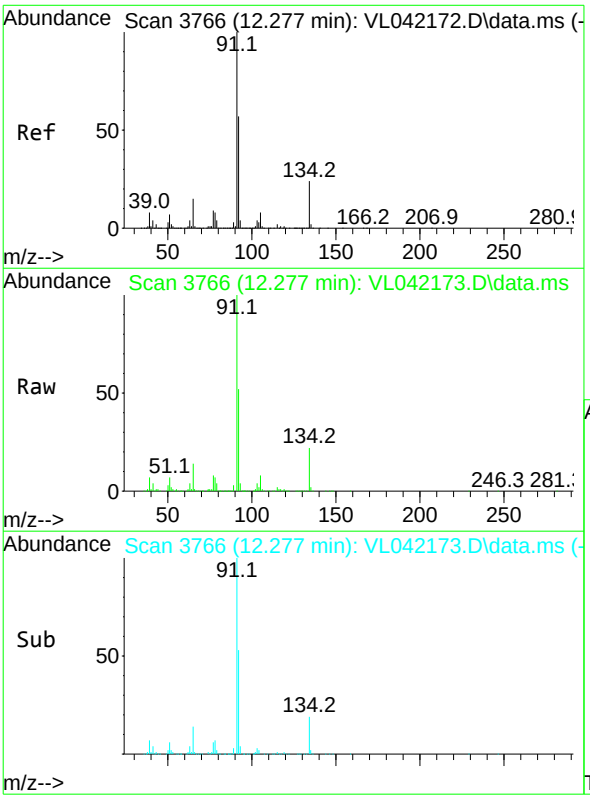
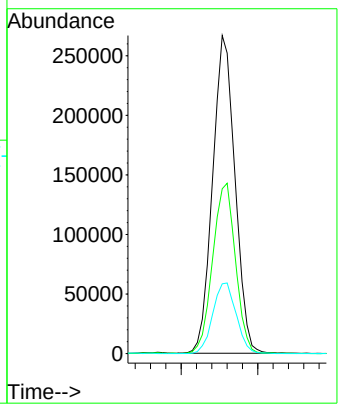


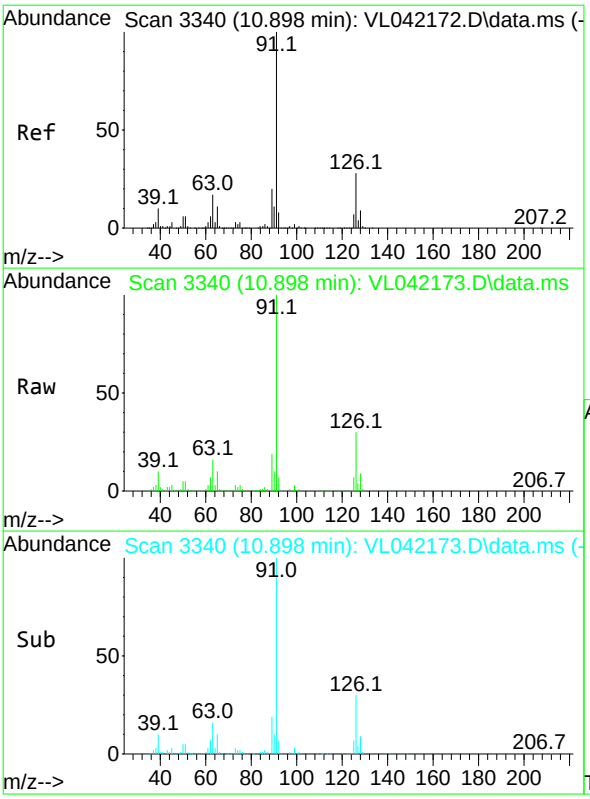




#70
n-Butylbenzene
Concen: 2.228 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 91 Resp: 270616

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 55.1 | 44.9 | 67.3 |
| 134 | 23.3 | 19.2 | 28.8 |

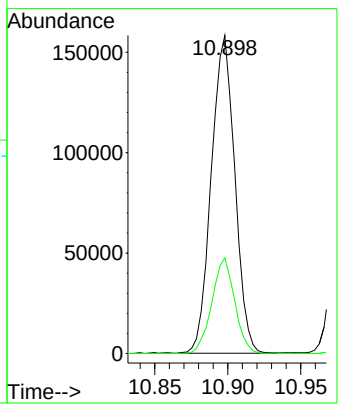





#71
2-Chlorotoluene
Concen: 2.132 ppbv
RT: 10.898 min Scan# 33
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 91 Resp: 177487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 29.2 | 11.6 | 46.4 |

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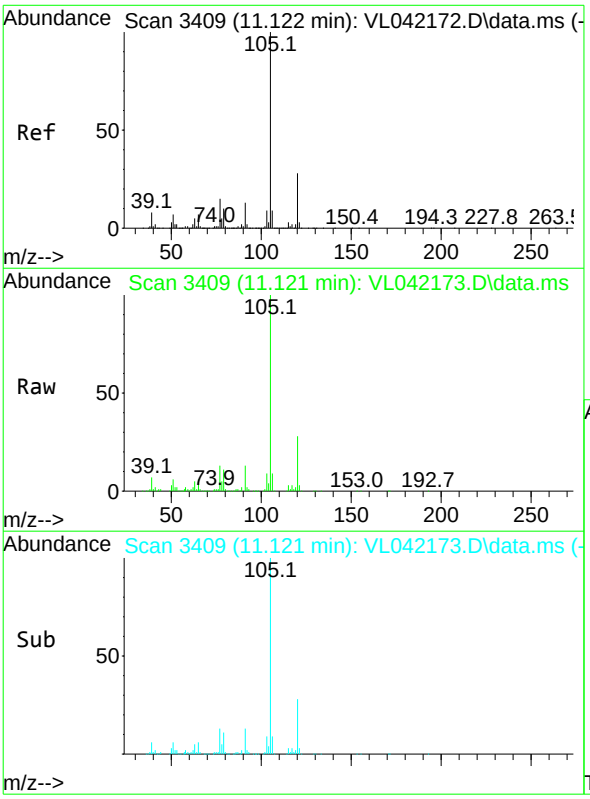
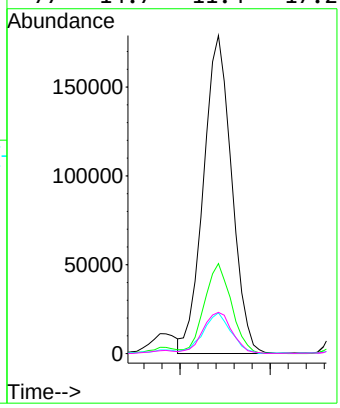
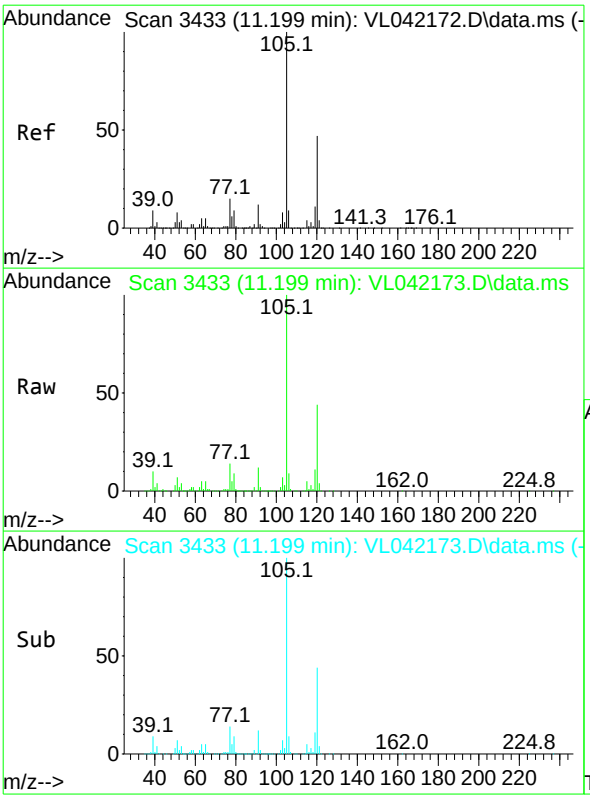



#72
4-Ethyltoluene
Concen: 2.179 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:105 Resp: 194660

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 29.1 | 23.4 | 35.0 |
| 91 | 13.7 | 10.3 | 15.5 |
| 77 | 14.7 | 11.4 | 17.2 |

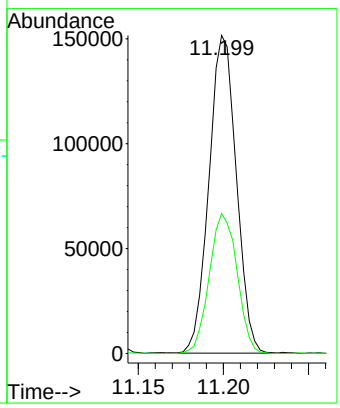





#73
1,3,5-Trimethylbenzene
Concen: 2.169 ppbv
RT: 11.199 min Scan# 34
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:105 Resp: 169221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.0 | 37.4 | 56.0 |

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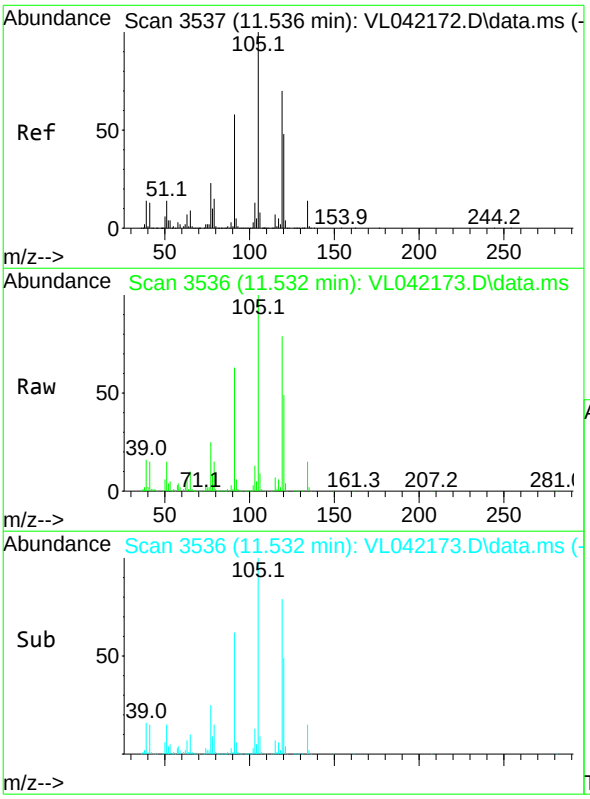
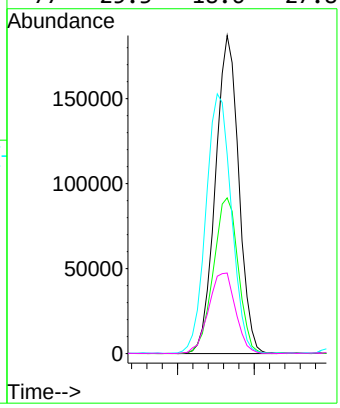
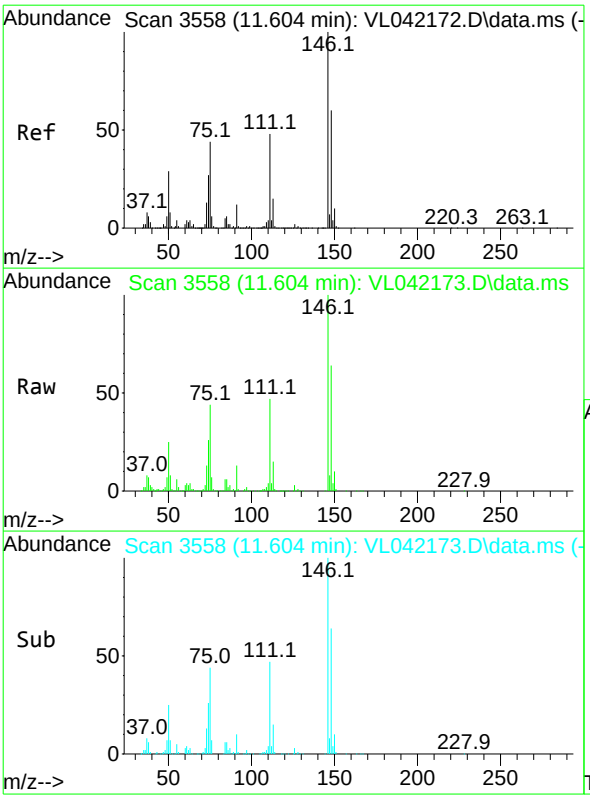



#74
1,2,4-Trimethylbenzene
Concen: 2.207 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:105 Resp: 198351

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 49.0 | 38.6 | 58.0 |
| 91 | 62.4 | 46.2 | 69.2 |
| 77 | 25.3 | 18.6 | 27.8 |

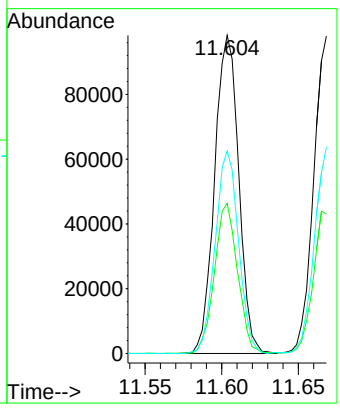





#75
1,3-Dichlorobenzene
Concen: 2.175 ppbv
RT: 11.604 min Scan# 35
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:146 Resp: 107217

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 45.5 | 23.8 | 71.2 |
| 148 | 61.6 | 31.9 | 95.9 |

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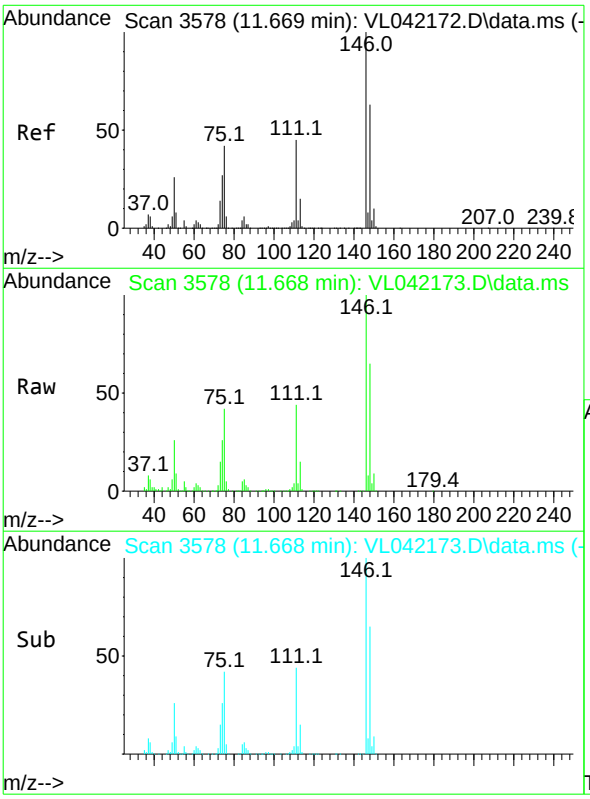
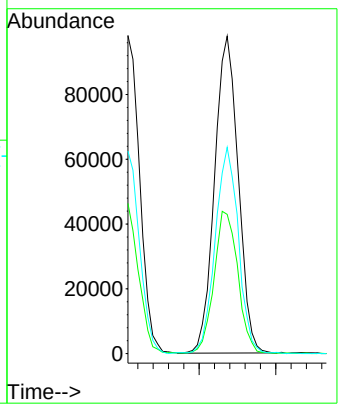
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

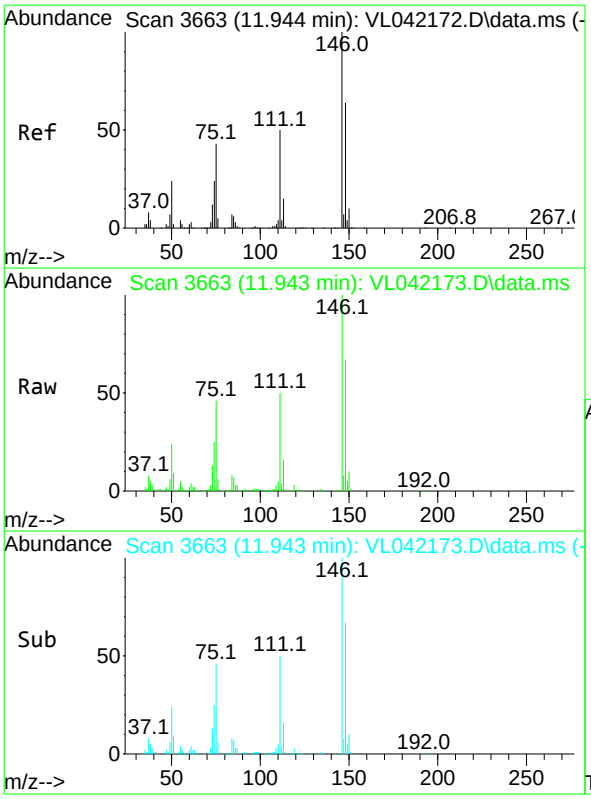



#76
1,4-Dichlorobenzene
Concen: 2.139 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:146 Resp: 104925

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 45.3 | 23.0 | 69.0 |
| 148 | 64.0 | 31.9 | 95.7 |

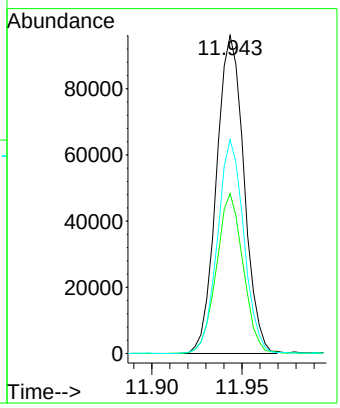





#77
1,2-Dichlorobenzene
Concen: 2.132 ppbv
RT: 11.943 min Scan# 36
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:146 Resp: 102310

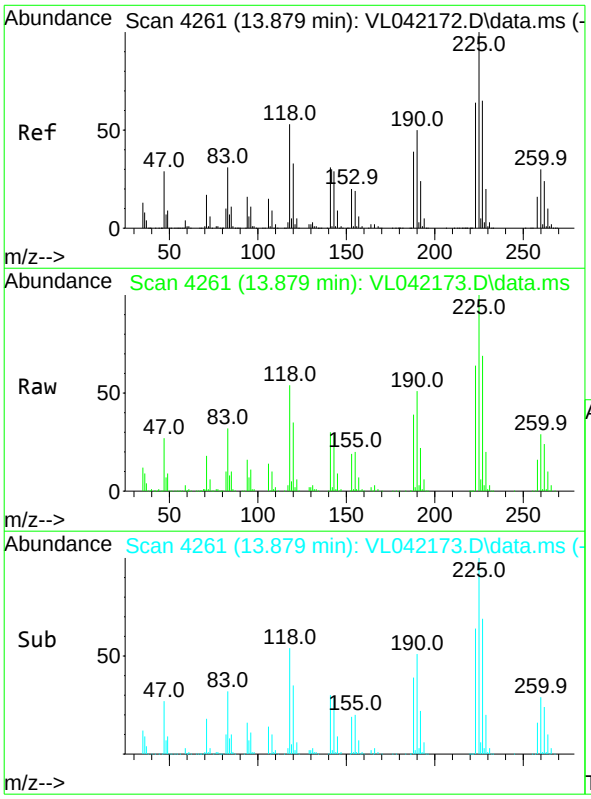
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 48.8 | 24.8 | 74.3 |
| 148 | 64.6 | 31.6 | 94.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

**Manual Integrations**
**APPROVED**

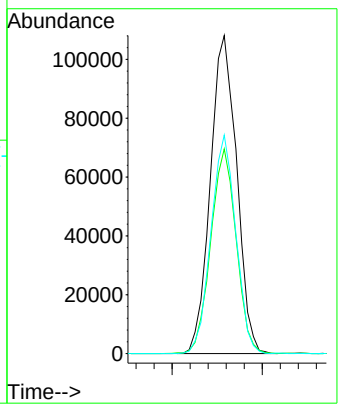
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

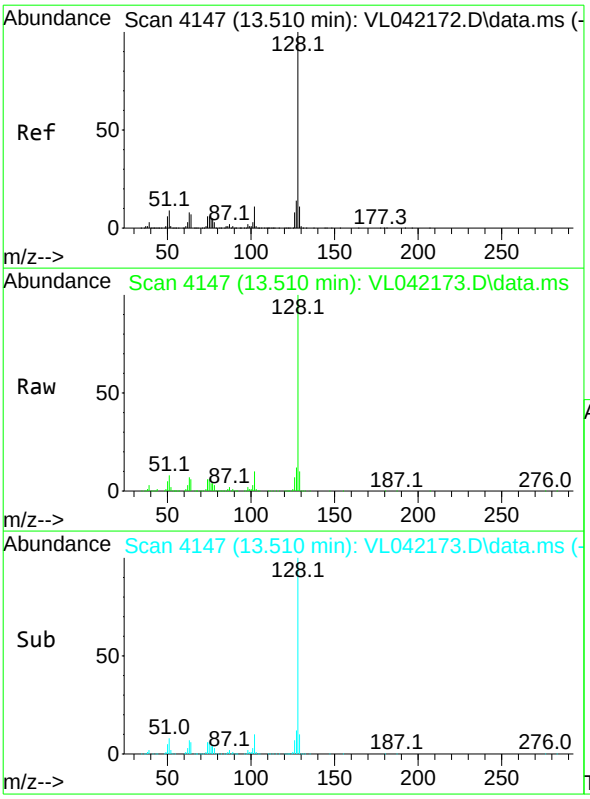



#78
Hexachloro-1,3-Butadiene
Concen: 2.242 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:225 Resp: 109539

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.2 | 50.6 | 76.0 |
| 227 | 64.9 | 51.2 | 76.8 |

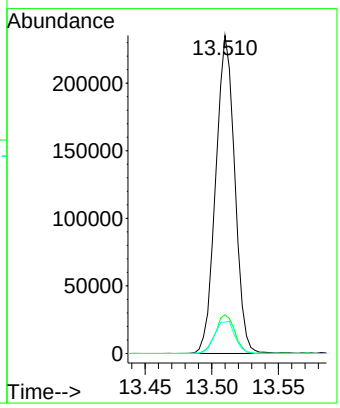





#79
Naphthalene
Concen: 2.375 ppbv
RT: 13.510 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:128 Resp: 233451

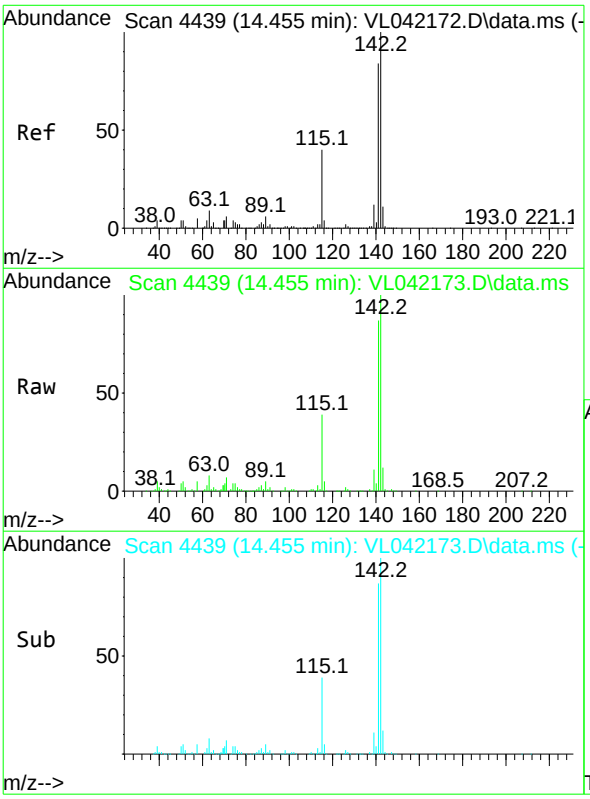
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.1 | 10.8 | 16.2 |
| 129 | 9.9 | 9.0 | 13.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

**Manual Integrations**
**APPROVED**

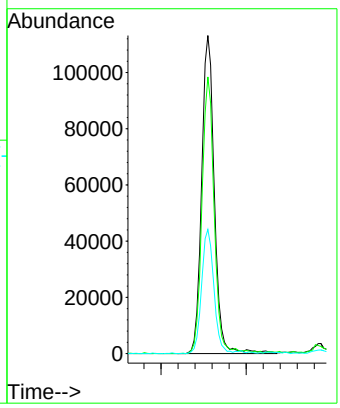
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

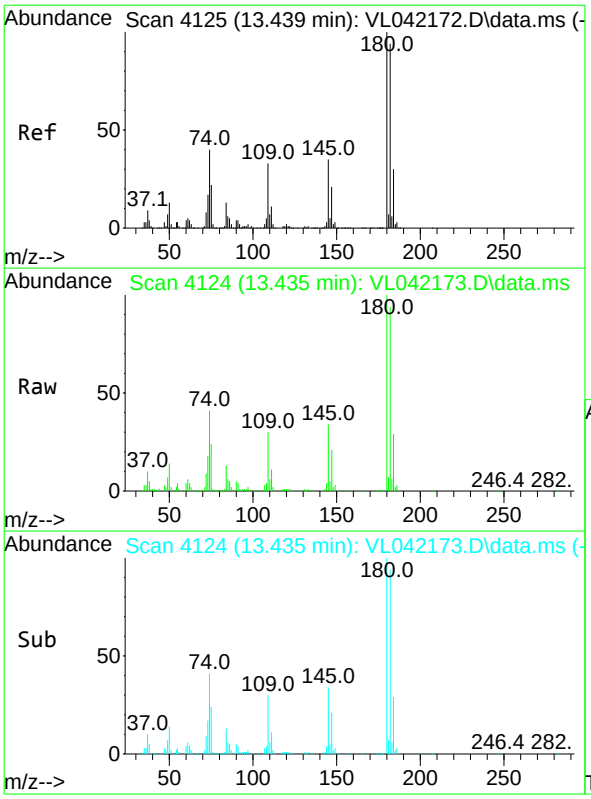



#80
Naphthalene,2-methyl-
Concen: 2.451 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:142 Resp: 117313

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 83.5 | 66.3 | 99.5 |
| 115 | 38.5 | 31.6 | 47.4 |

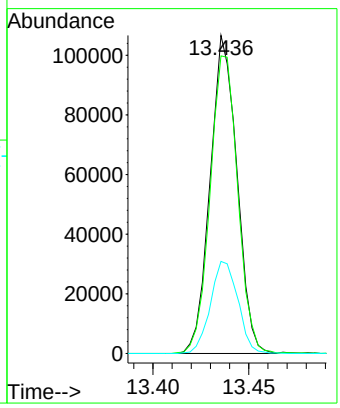





#81
1,2,4-Trichlorobenzene
Concen: 2.288 ppbv
RT: 13.435 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:180 Resp: 103765

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 97.0 | 75.1 | 112.7 |
| 184 | 29.6 | 24.4 | 36.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042174.D
Acq On : 27 Mar 2025 09:30
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 28 01:33:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) Bromochloromethane | 2.784 | 49 | 186244 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.952 | 114 | 537244 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.879 | 117 | 499830 | 10.000 | ppbv | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.371 | 95 | 404753 | 9.861 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 98.600% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.496 | 85 | 28203 | 1.026 | ppbv | | 99 |
| 3) Chlorodifluoromethane | 1.473 | 51 | 28693 | 1.021 | ppbv | | 94 |
| 4) Chloromethane | 1.531 | 50 | 11111 | 0.989 | ppbv | | 99 |
| 5) Vinyl Chloride | 1.577 | 62 | 10723 | 0.936 | ppbv | | 98 |
| 6) Bromomethane | 1.667 | 94 | 4984 | 0.979 | ppbv | | 97 |
| 7) Chloroethane | 1.703 | 64 | 4622 | 1.025 | ppbv | | 100 |
| 8) Dichlorotetrafluoroethane | 1.554 | 85 | 23886 | 1.020 | ppbv | | 98 |
| 9) Propene | 1.483 | 41 | 13699m | 1.082 | ppbv | | |
| 10) Heptane | 4.975 | 43 | 36132 | 1.055 | ppbv | | 100 |
| 11) Trichlorofluoromethane | 1.875 | 101 | 27136 | 1.014 | ppbv | | 96 |
| 12) 1,1,2-Trichlorotrifluo... | 2.137 | 101 | 22629 | 1.029 | ppbv | | 99 |
| 13) Ethanol | 1.719 | 45 | 1610m | 1.624 | ppbv | | |
| 14) Bromoethene | 1.781 | 108 | 8330 | 0.989 | ppbv | # | 82 |
| 15) Acetone | 1.836 | 43 | 29294 | 1.125 | ppbv | | 95 |
| 16) 1,3-Butadiene | 1.606 | 39 | 13133 | 1.121 | ppbv | | 97 |
| 17) tert-Butyl alcohol | 2.040 | 59 | 33500 | 1.033 | ppbv | | 97 |
| 18) 1,1-Dichloroethene | 2.033 | 96 | 10532 | 1.024 | ppbv | | 89 |
| 19) Isopropyl Alcohol | 1.884 | 45 | 14903 | 1.014 | ppbv | # | 38 |
| 20) Methylene Chloride | 2.059 | 84 | 10481 | 1.080 | ppbv | | 93 |
| 21) Allyl Chloride | 2.095 | 41 | 19039 | 1.036 | ppbv | | 99 |
| 22) trans-1,2-Dichloroethene | 2.341 | 96 | 13051m | 1.086 | ppbv | | |
| 23) Vinyl Acetate | 2.464 | 43 | 12883m | 1.190 | ppbv | | |
| 24) 1,1-Dichloroethane | 2.409 | 63 | 22505 | 1.022 | ppbv | | 99 |
| 25) Ethyl Acetate | 2.836 | 43 | 67402 | 0.997 | ppbv | # | 96 |
| 26) Hexane | 2.823 | 57 | 27223 | 1.043 | ppbv | | 98 |
| 27) Carbon Disulfide | 2.146 | 76 | 28167 | 1.006 | ppbv | # | 47 |
| 28) Methyl tert-Butyl Ether | 2.441 | 73 | 16501 | 1.015 | ppbv | | 95 |
| 29) Chloroform | 2.845 | 83 | 38516 | 1.008 | ppbv | | 96 |
| 30) Cyclohexane | 3.852 | 84 | 23052 | 1.016 | ppbv | | 97 |
| 31) cis-1,2-Dichloroethene | 2.716 | 61 | 27187 | 1.026 | ppbv | | 89 |
| 32) 1,1,1-Trichloroethane | 3.363 | 97 | 40993 | 0.938 | ppbv | | 99 |
| 34) 2-Butanone | 2.557 | 43 | 41423 | 1.063 | ppbv | | 98 |
| 35) Carbon Tetrachloride | 3.758 | 117 | 39345 | 0.952 | ppbv | | 93 |
| 36) Benzene | 3.651 | 78 | 55156 | 1.036 | ppbv | | 94 |
| 37) 1,2-Dichloroethane | 3.218 | 62 | 30543 | 1.002 | ppbv | | 98 |
| 38) Trichloroethene | 4.545 | 130 | 21906 | 0.985 | ppbv | | 93 |
| 39) 1,2-Dichloropropane | 4.312 | 63 | 20020 | 1.032 | ppbv | | 99 |
| 40) 1,4-Dioxane | 4.593 | 88 | 10592m | 1.052 | ppbv | | |
| 41) Tetrahydrofuran | 3.056 | 42 | 22818 | 1.029 | ppbv | | 97 |
| 42) Bromodichloromethane | 4.483 | 83 | 41864 | 0.996 | ppbv | | 90 |
| 43) Methyl Methacrylate | 4.875 | 69 | 24233m | 1.078 | ppbv | | |
| 44) 2,2,4-Trimethylpentane | 4.632 | 57 | 90727 | 1.008 | ppbv | | 96 |
| 45) t-1,3-Dichloropropene | 6.403 | 75 | 23993m | 0.992 | ppbv | | |

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042174.D
Acq On : 27 Mar 2025 09:30
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 28 01:33:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.593 | 75 | 30063 | 1.014 | ppbv | | 93 |
| 47) 1,1,2-Trichloroethane | 6.577 | 97 | 20546 | 1.002 | ppbv | | 96 |
| 48) Dibromochloromethane | 7.383 | 129 | 34425 | 0.991 | ppbv | | 100 |
| 49) Bromoform | 9.481 | 173 | 31610 | 1.013 | ppbv | | 98 |
| 50) 4-Methyl-2-Pentanone | 5.752 | 43 | 65226m | 1.056 | ppbv | | |
| 51) 2-Hexanone | 7.438 | 43 | 54680 | 1.067 | ppbv | # | 100 |
| 52) Tetrachloroethene | 8.222 | 164 | 19415 | 0.919 | ppbv | | 95 |
| 53) Toluene | 6.927 | 91 | 64612 | 1.023 | ppbv | | 99 |
| 54) 1,2-Dibromoethane | 7.652 | 107 | 28879 | 1.009 | ppbv | | 95 |
| 56) 1,1,1,2-Tetrachloroethane | 8.924 | 131 | 28764 | 1.045 | ppbv | # | 87 |
| 57) Chlorobenzene | 8.917 | 112 | 48930 | 1.032 | ppbv | | 93 |
| 58) Ethyl Benzene | 9.348 | 91 | 91086 | 1.026 | ppbv | | 97 |
| 59) m/p-Xylene | 9.529 | 91 | 147162m | 2.073 | ppbv | | |
| 60) o-Xylene | 9.960 | 91 | 73702 | 1.037 | ppbv | | 96 |
| 61) Styrene | 9.866 | 104 | 36110 | 1.027 | ppbv | | 97 |
| 62) Isopropylbenzene | 10.536 | 105 | 109897 | 1.034 | ppbv | | 98 |
| 63) 1,1,2,2-Tetrachloroethane | 9.960 | 83 | 44431 | 1.029 | ppbv | | 99 |
| 64) n-propylbenzene | 10.986 | 120 | 29054 | 1.062 | ppbv | | 98 |
| 65) tert-Butylbenzene | 11.526 | 119 | 103520 | 1.053 | ppbv | | 96 |
| 66) Benzyl Chloride | 11.614 | 91 | 10660 | 1.022 | ppbv | # | 93 |
| 67) sec-Butylbenzene | 11.762 | 105 | 149660 | 1.095 | ppbv | | 97 |
| 69) p-Isopropyltoluene | 11.921 | 119 | 127509 | 1.084 | ppbv | | 99 |
| 70) n-Butylbenzene | 12.280 | 91 | 129860 | 1.079 | ppbv | | 99 |
| 71) 2-Chlorotoluene | 10.898 | 91 | 86356 | 1.047 | ppbv | | 100 |
| 72) 4-Ethyltoluene | 11.122 | 105 | 92912 | 1.050 | ppbv | | 99 |
| 73) 1,3,5-Trimethylbenzene | 11.199 | 105 | 83497 | 1.080 | ppbv | | 92 |
| 74) 1,2,4-Trimethylbenzene | 11.533 | 105 | 97858 | 1.099 | ppbv | | 94 |
| 75) 1,3-Dichlorobenzene | 11.604 | 146 | 51096 | 1.046 | ppbv | | 99 |
| 76) 1,4-Dichlorobenzene | 11.669 | 146 | 50841 | 1.046 | ppbv | | 99 |
| 77) 1,2-Dichlorobenzene | 11.944 | 146 | 51523 | 1.084 | ppbv | | 99 |
| 78) Hexachloro-1,3-Butadiene | 13.879 | 225 | 55611 | 1.149 | ppbv | | 97 |
| 79) Naphthalene | 13.510 | 128 | 109031 | 1.120 | ppbv | | 99 |
| 80) Naphthalene,2-methyl- | 14.455 | 142 | 44518 | 0.939 | ppbv | | 99 |
| 81) 1,2,4-Trichlorobenzene | 13.436 | 180 | 47040 | 1.047 | ppbv | | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

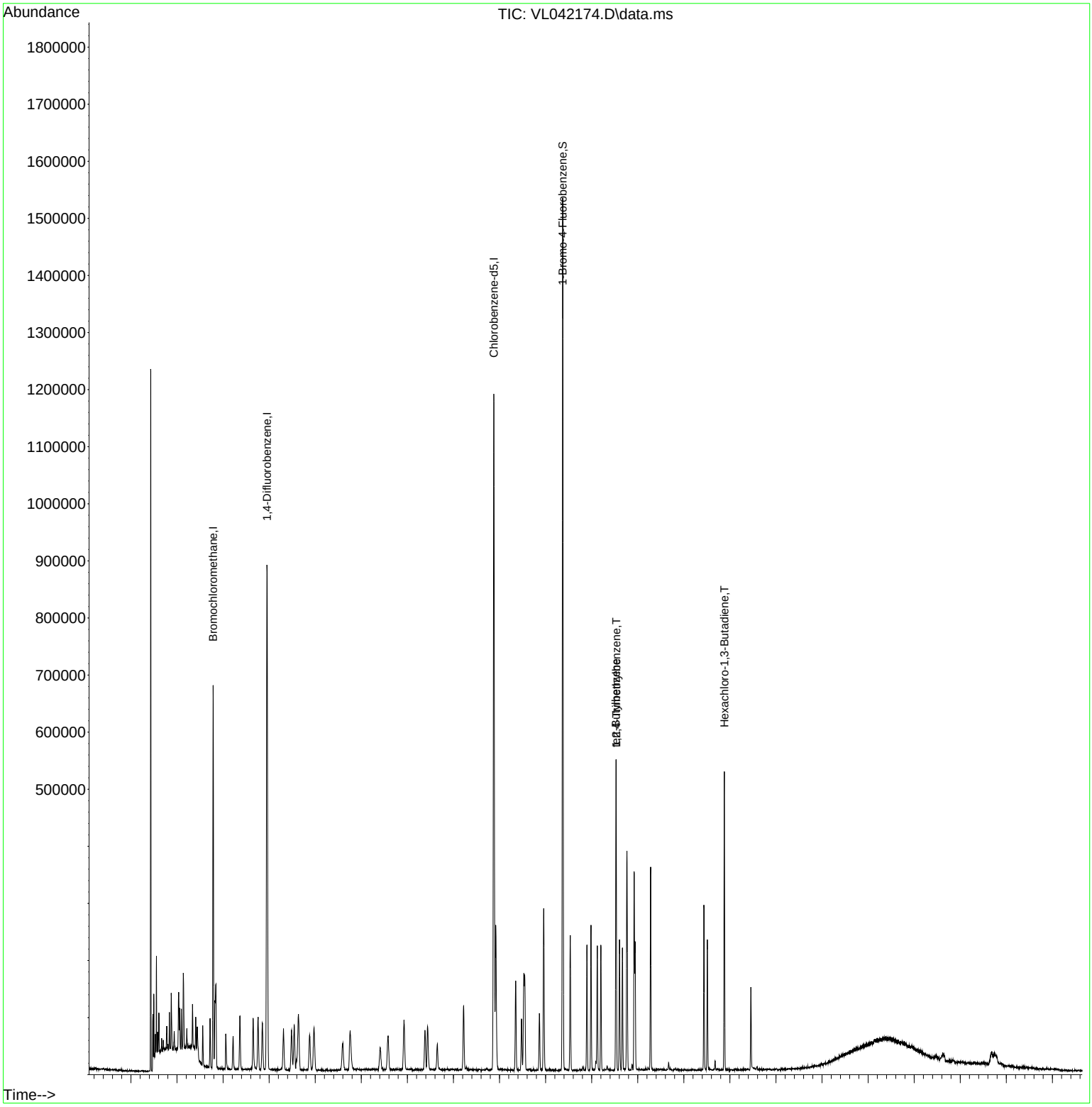
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042174.D
Acq On : 27 Mar 2025 09:30
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

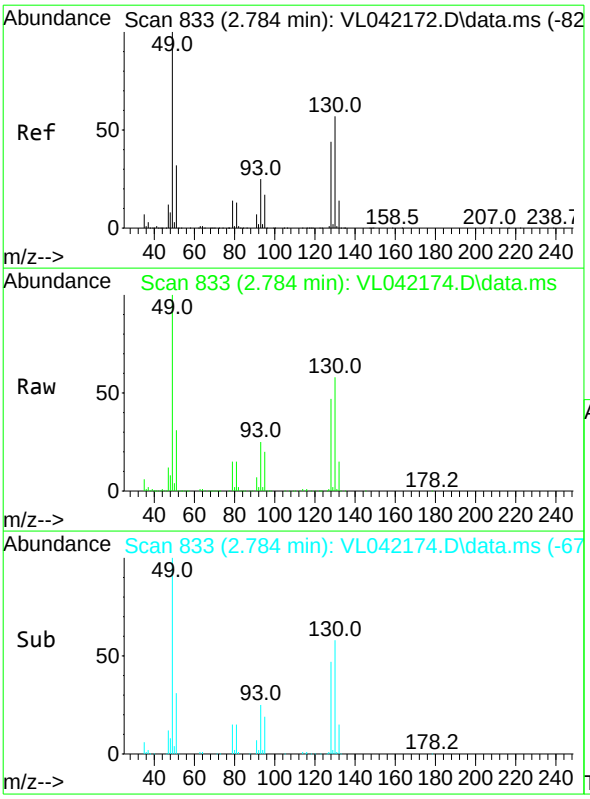
Quant Time: Mar 28 01:33:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

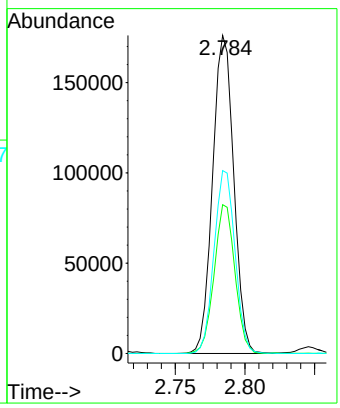





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 83
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 49 Resp: 186244

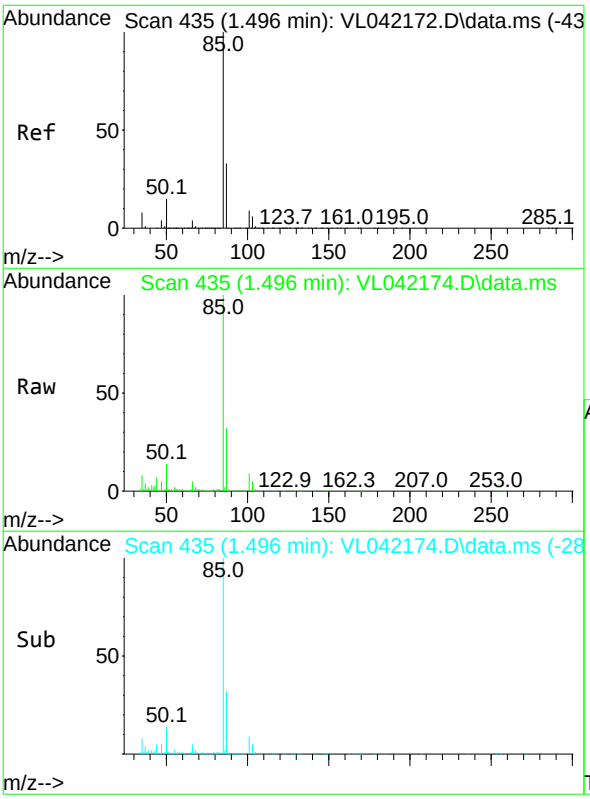
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 46.2 | 22.9 | 68.5 |
| 130 | 57.0 | 28.8 | 86.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

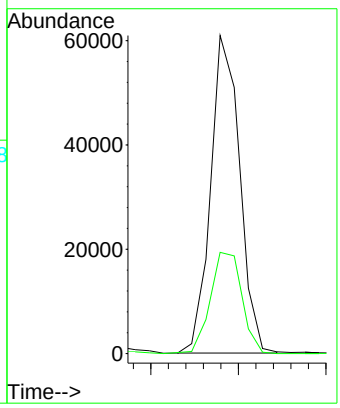
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

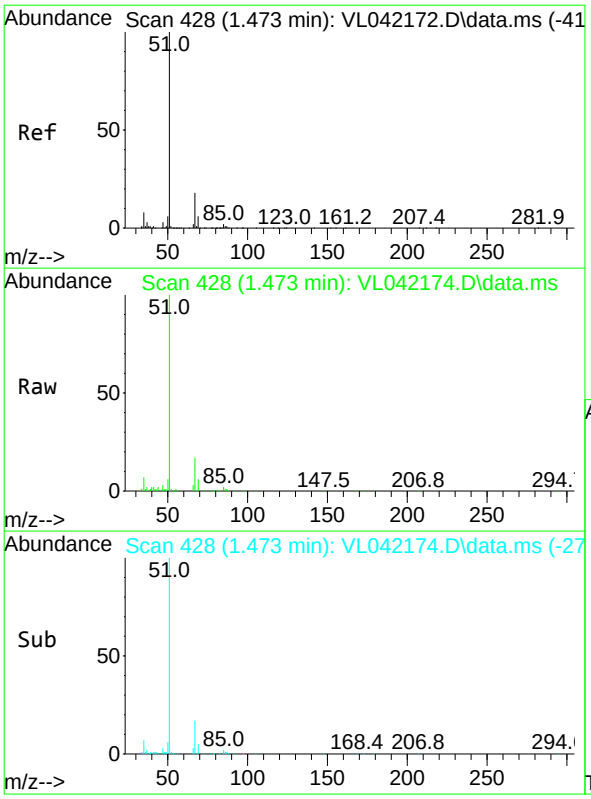



#2
Dichlorodifluoromethane
Concen: 1.026 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 85 Resp: 28203

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.9 | 26.1 | 39.1 |

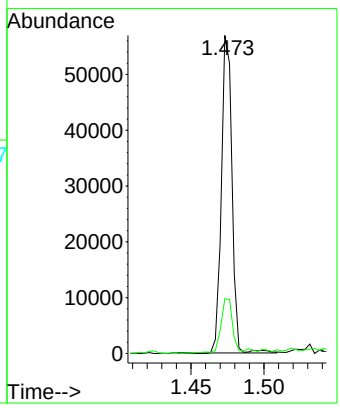





#3
Chlorodifluoromethane
Concen: 1.021 ppbv
RT: 1.473 min Scan# 42
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 51 Resp: 28693

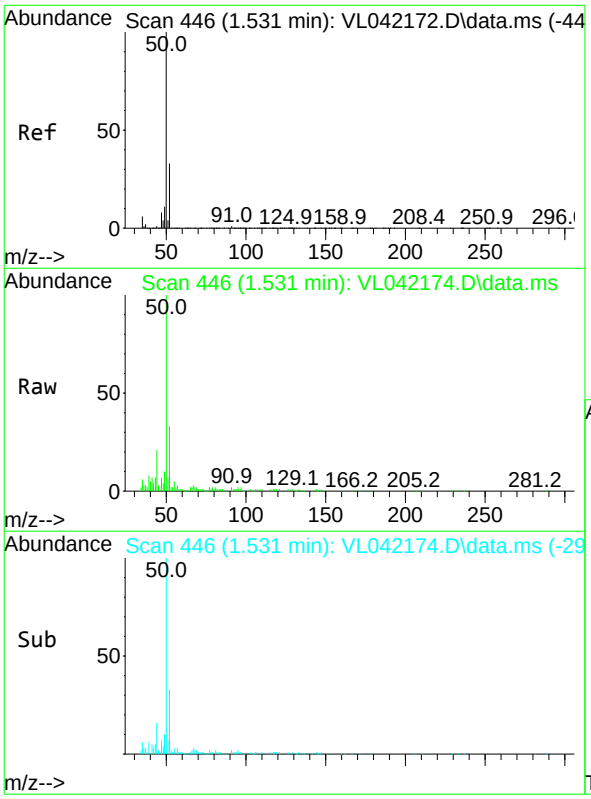
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 21.5 | 15.0 | 22.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

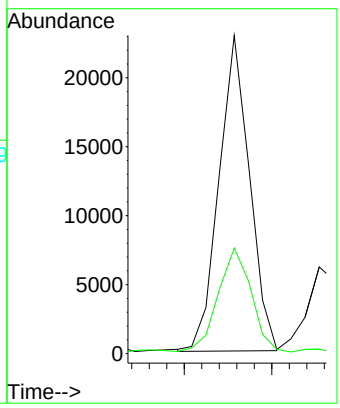
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

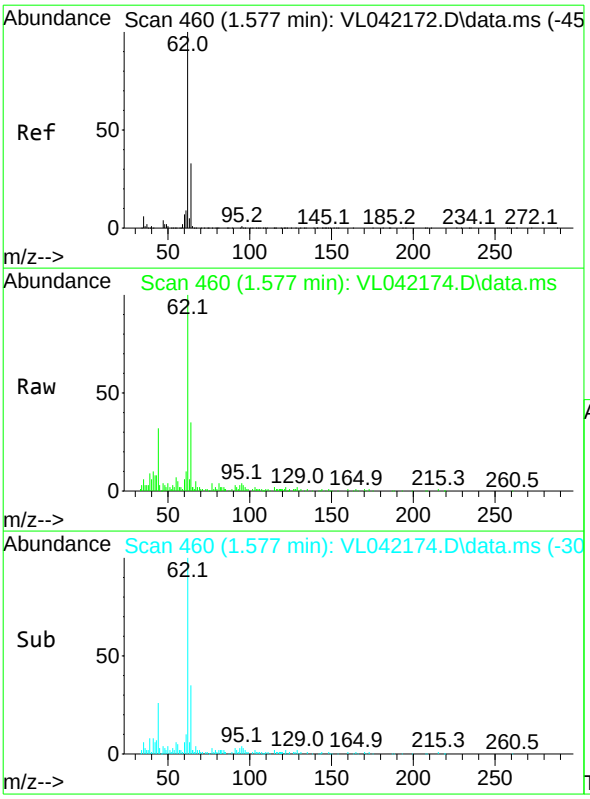



#4
Chloromethane
Concen: 0.989 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 50 Resp: 11111

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.9 | 26.1 | 39.1 |

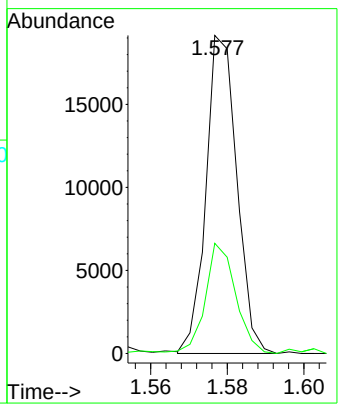





#5
Vinyl Chloride
Concen: 0.936 ppbv
RT: 1.577 min Scan# 46
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 62 Resp: 10723

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 34.6 | 26.6 | 40.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
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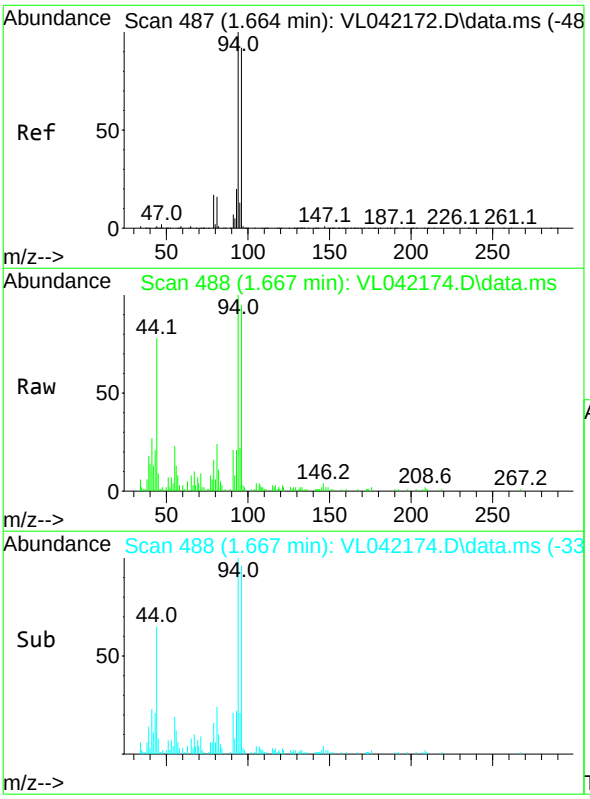
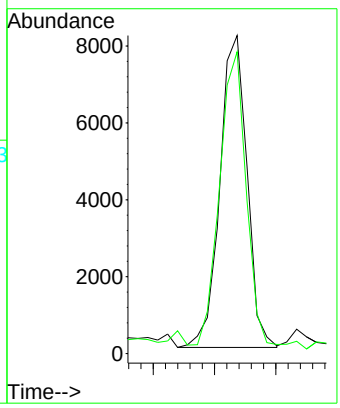
Supervised By :Mahesh Dadoda 04/03/2025

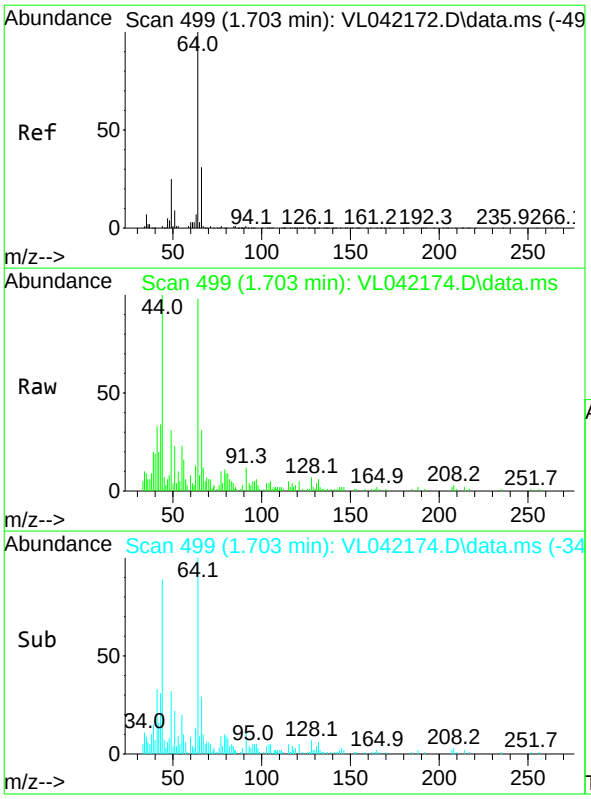



#6
Bromomethane
Concen: 0.979 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 94 Resp: 4984

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 93.8 | 73.1 | 109.7 |

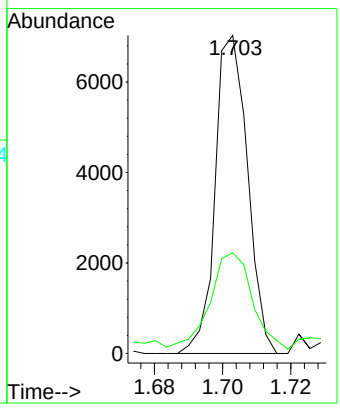





#7
Chloroethane
Concen: 1.025 ppbv
RT: 1.703 min Scan# 49
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 64 Resp: 4622

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 31.7 | 25.2 | 37.8 |




**Instrument :**
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VSTDICC001

**Manual Integrations**
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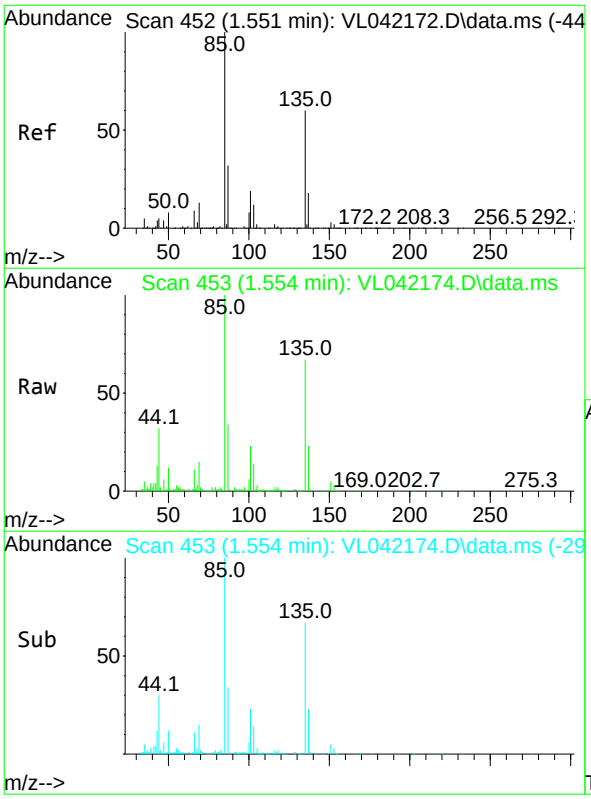
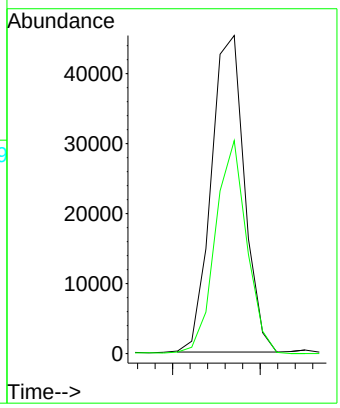
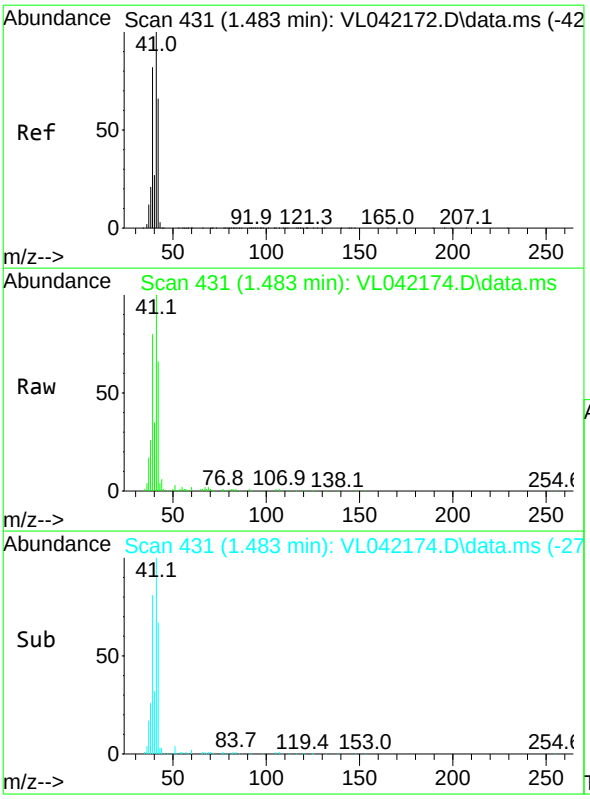



#8
Dichlorotetrafluoroethane
Concen: 1.020 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 85 Resp: 23886

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 64.2 | 52.4 | 78.6 |

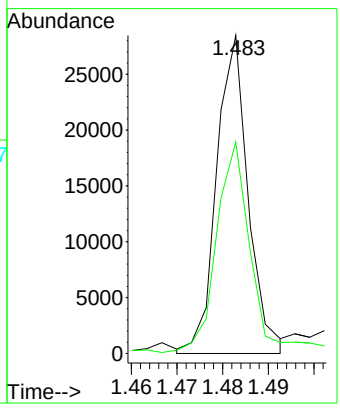





#9
Propene
Concen: 1.082 ppbv m
RT: 1.483 min Scan# 43
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 41 Resp: 13699

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 7.5 | 55.4 | 83.2# |




**Instrument :**
MSVOA_L
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VSTDICC001

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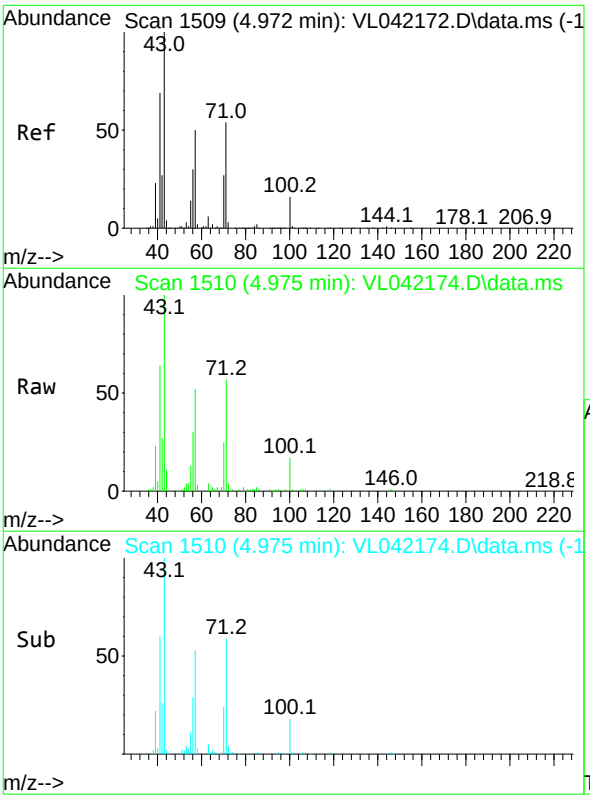
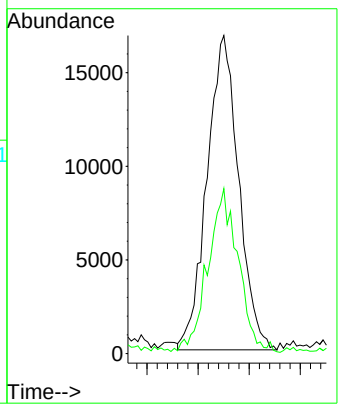
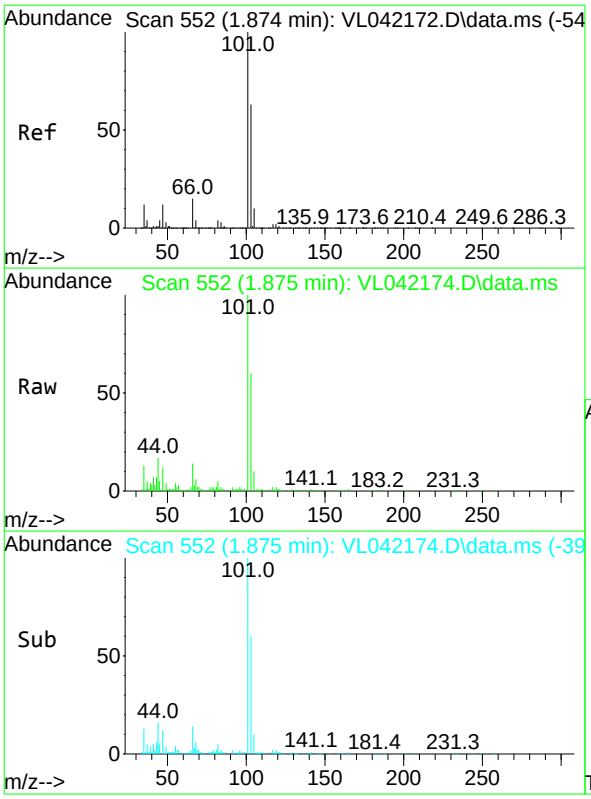



#10
Heptane
Concen: 1.055 ppbv
RT: 4.975 min Scan# 1510
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 43 Resp: 36132

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 49.6 | 39.4 | 59.2 |

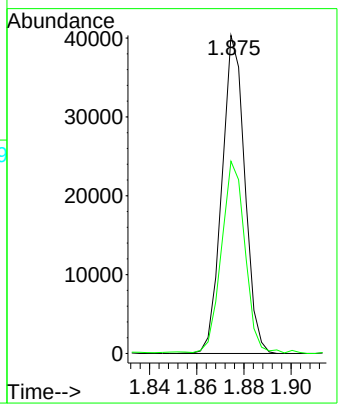





#11
Trichlorofluoromethane
Concen: 1.014 ppbv
RT: 1.875 min Scan# 55
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:101 Resp: 27136

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 59.9 | 50.2 | 75.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

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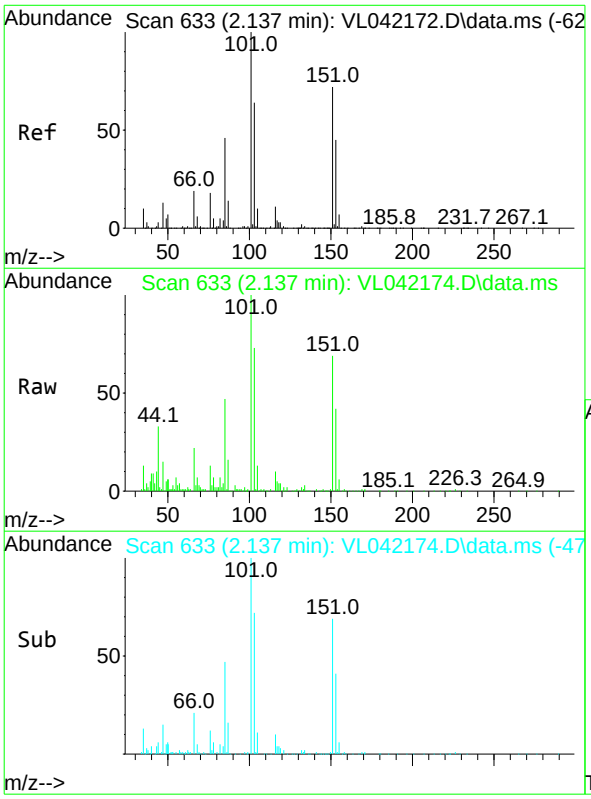
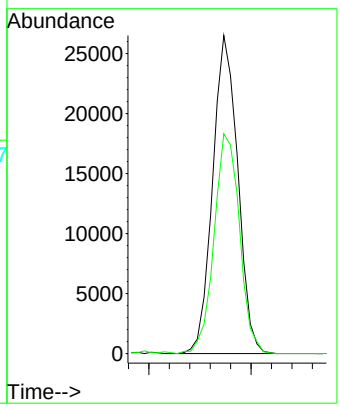
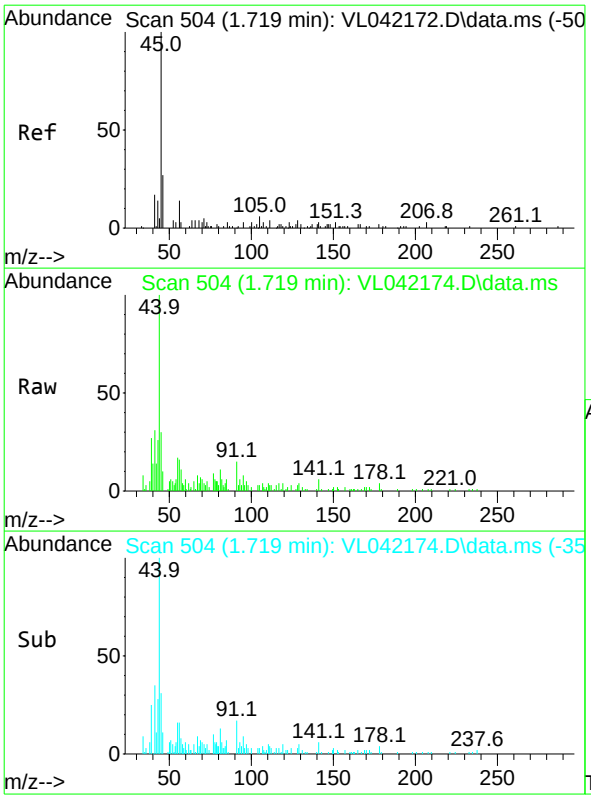



#12
1,1,2-Trichlorotrifluoroethane
Concen: 1.029 ppbv
RT: 2.137 min Scan# 633
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:101 Resp: 22629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 70.3 | 57.1 | 85.7 |

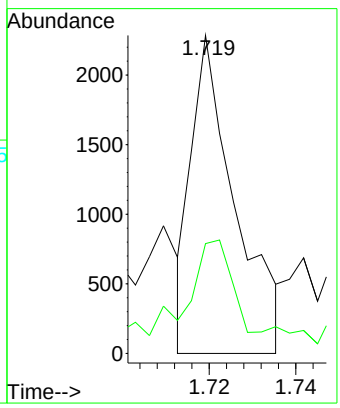





#13
Ethanol
Concen: 1.624 ppbv m
RT: 1.719 min Scan# 50
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 45 Resp: 1610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 73.4 | 20.2 | 80.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
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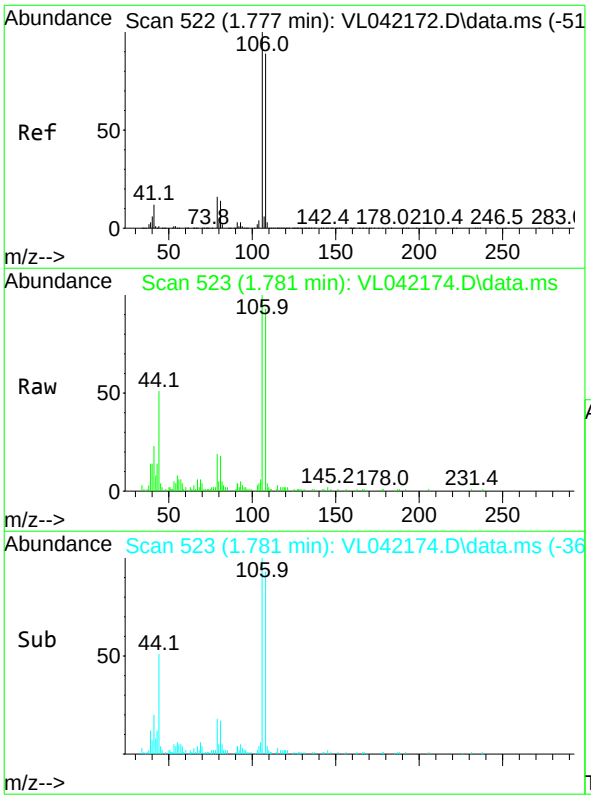
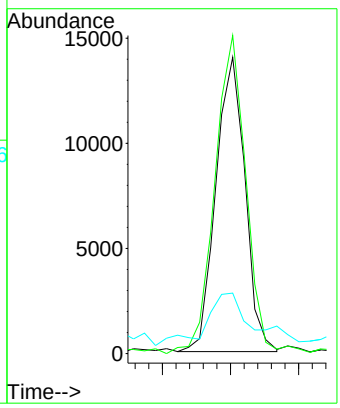
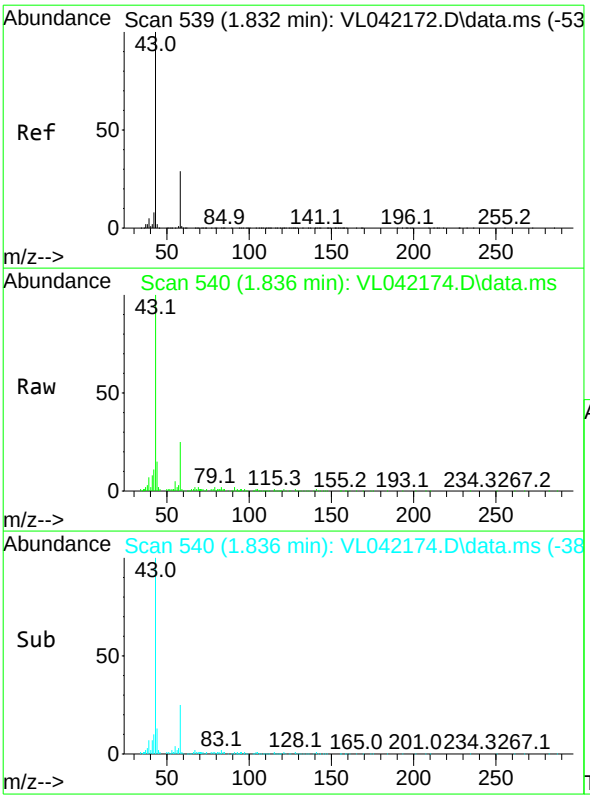



#14
Bromoethene
Concen: 0.989 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:108 Resp: 8330

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 106 | 115.2 | 86.8 | 130.2 |
| 79 | 57.0 | 15.0 | 22.6# |

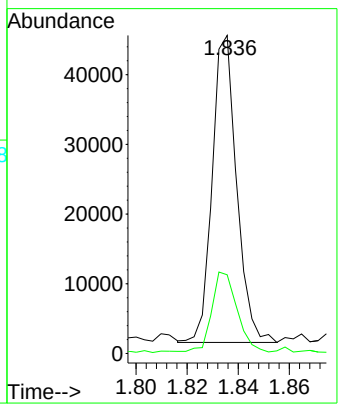





#15
Acetone
Concen: 1.125 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 43 Resp: 29294

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 31.6 | 23.2 | 34.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
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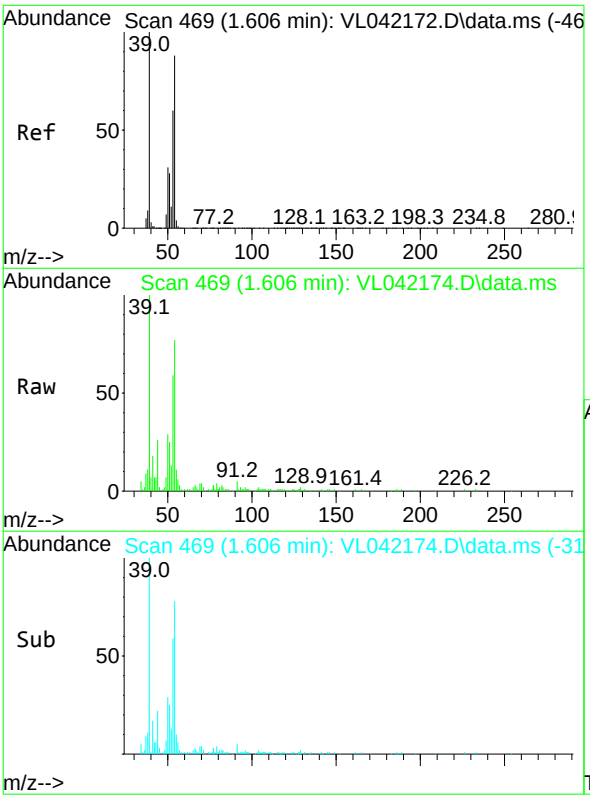
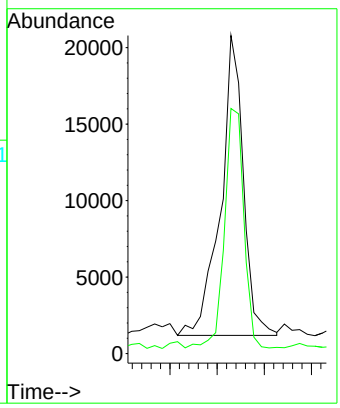
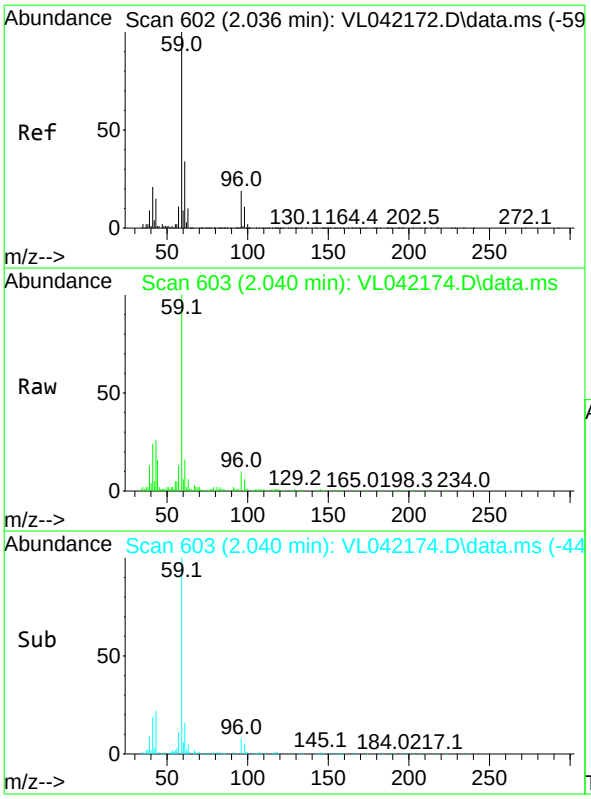



#16
1,3-Butadiene
Concen: 1.121 ppbv
RT: 1.606 min Scan# 469
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 39 Resp: 13133

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 73.5 | 60.7 | 91.1 |

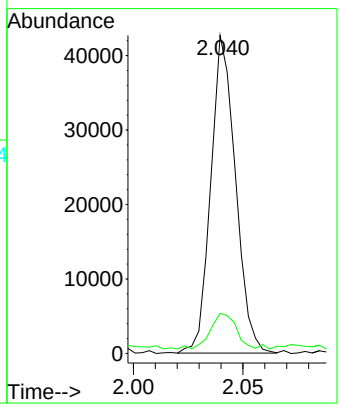





#17
tert-Butyl alcohol
Concen: 1.033 ppbv
RT: 2.040 min Scan# 60
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 59 Resp: 33500

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 12.3 | 8.9 | 13.3 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

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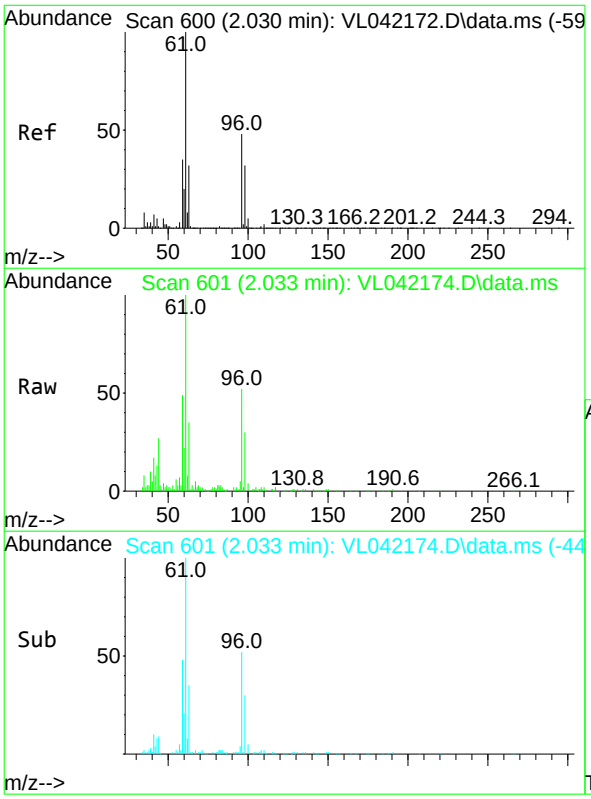
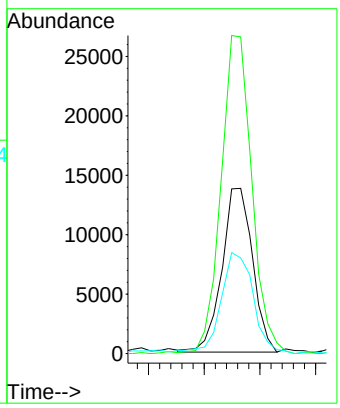
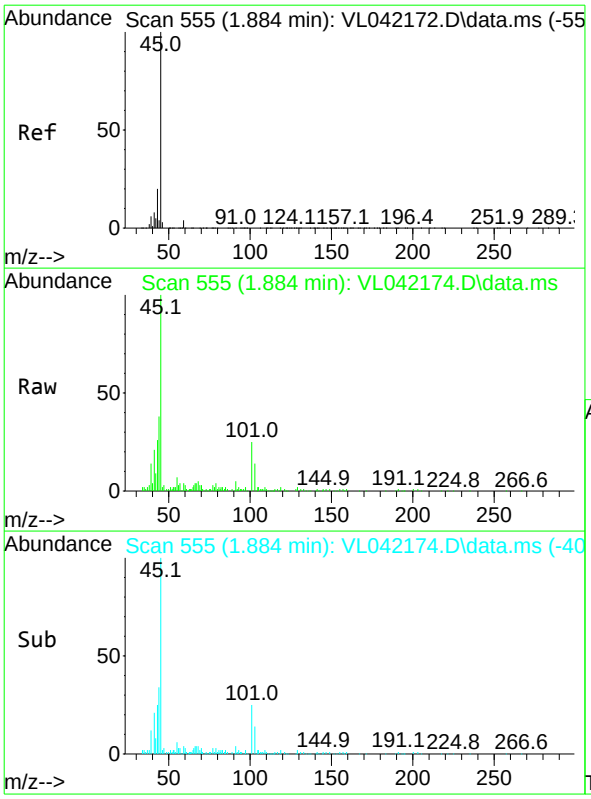



#18
1,1-Dichloroethene
Concen: 1.024 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 96 Resp: 10532

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 192.9 | 167.6 | 251.4 |
| 98 | 56.7 | 53.5 | 80.3 |

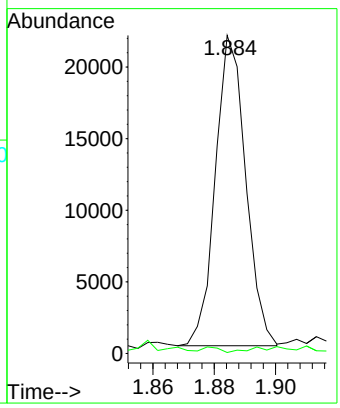





#19
Isopropyl Alcohol
Concen: 1.014 ppbv
RT: 1.884 min Scan# 55
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 45 Resp: 14903

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 4.9 | 36.9 | 55.3# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

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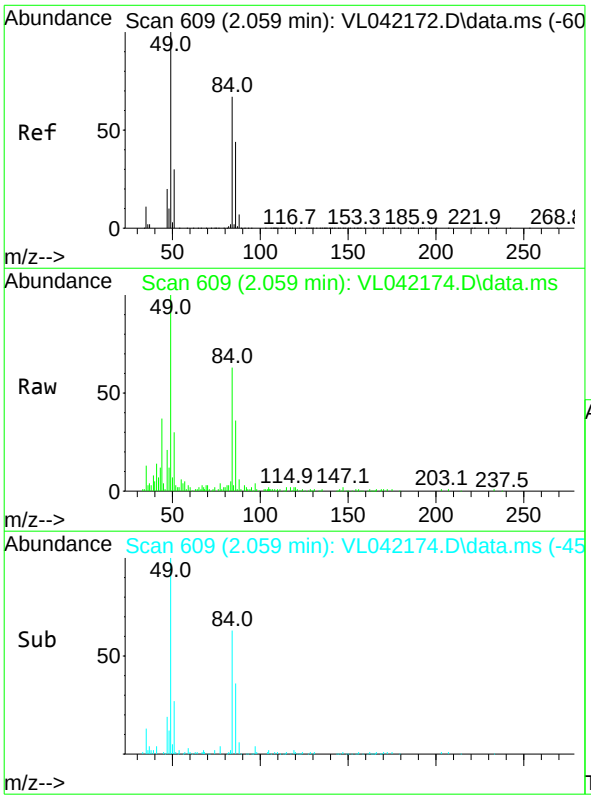
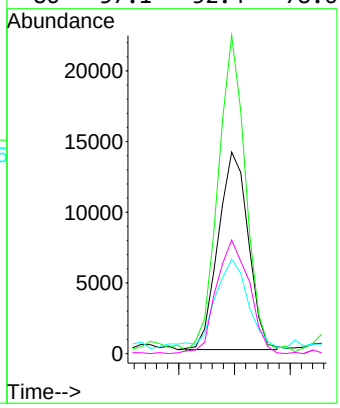
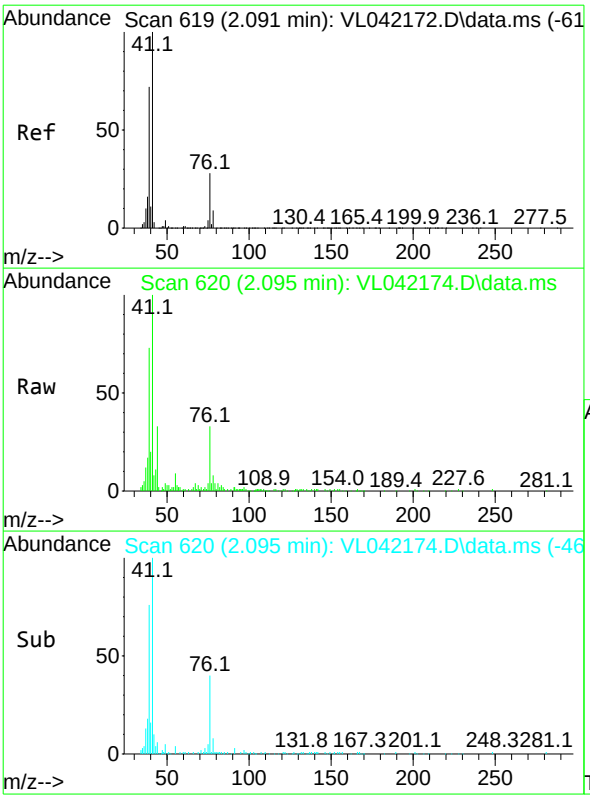



#20
Methylene Chloride
Concen: 1.080 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 84 Resp: 10481

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 158.3 | 120.2 | 180.4 |
| 51 | 44.3 | 37.4 | 56.0 |
| 86 | 57.1 | 52.4 | 78.6 |

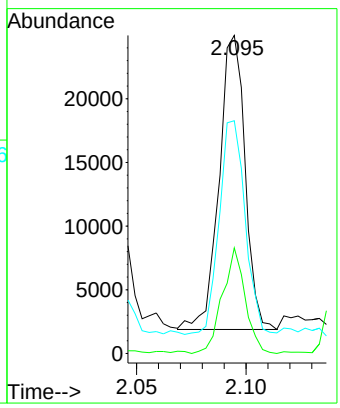





#21
Allyl Chloride
Concen: 1.036 ppbv
RT: 2.095 min Scan# 62
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 41 Resp: 19039

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 30.5 | 24.1 | 36.1 |
| 39 | 77.8 | 61.1 | 91.7 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
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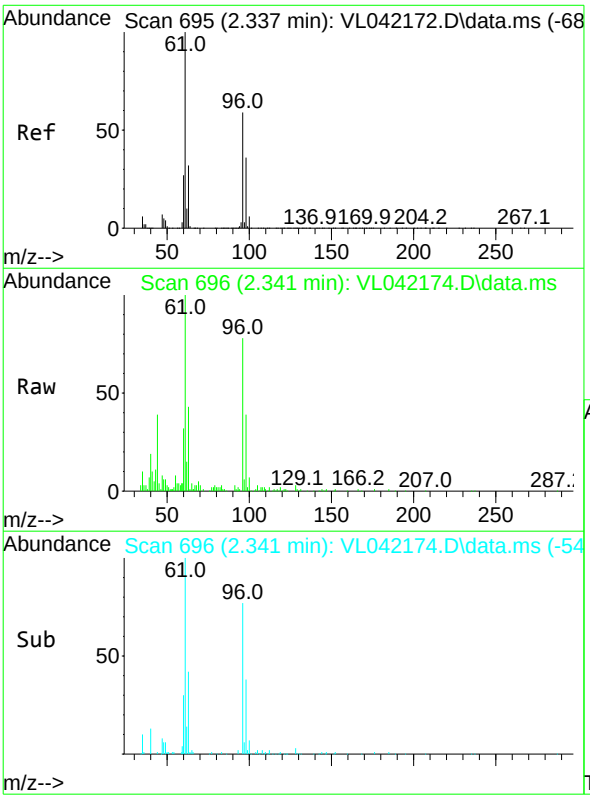
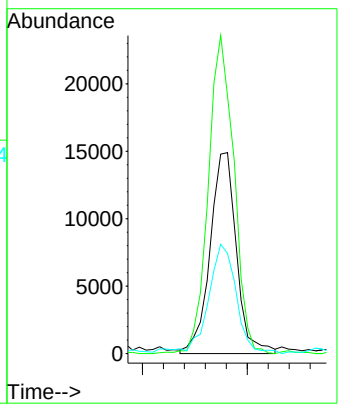
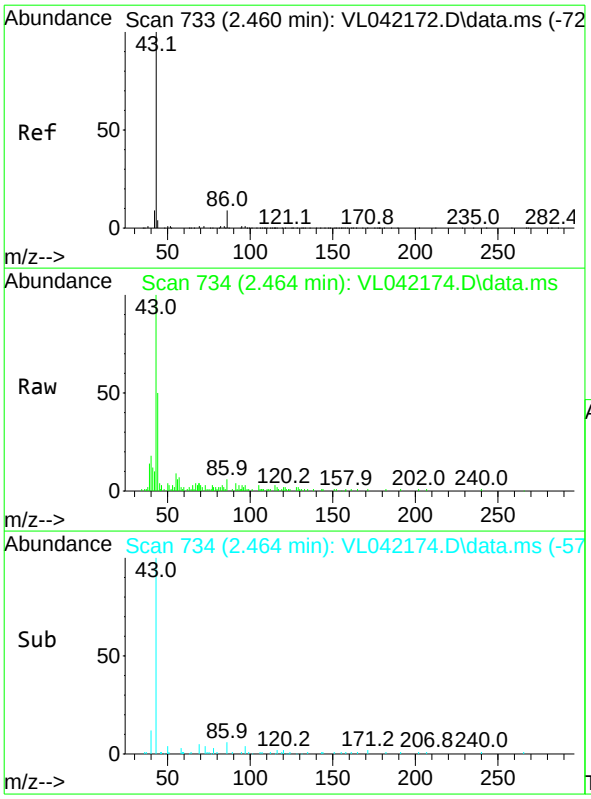



#22
trans-1,2-Dichloroethene
Concen: 1.086 ppbv m
RT: 2.341 min Scan# 696
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 96 Resp: 13051

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 128.3 | 136.6 | 204.8# |
| 98 | 49.9 | 49.4 | 74.2 |

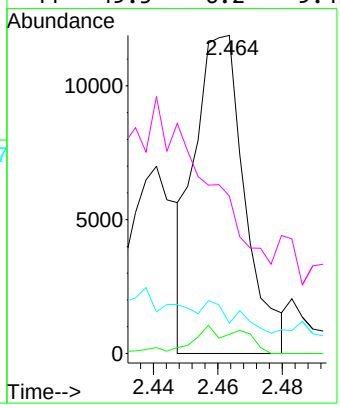





#23
Vinyl Acetate
Concen: 1.190 ppbv m
RT: 2.464 min Scan# 73
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 43 Resp: 12883

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 6.0 | 5.5 | 8.3 |
| 42 | 9.5 | 8.6 | 13.0 |
| 44 | 49.5 | 6.2 | 9.4# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
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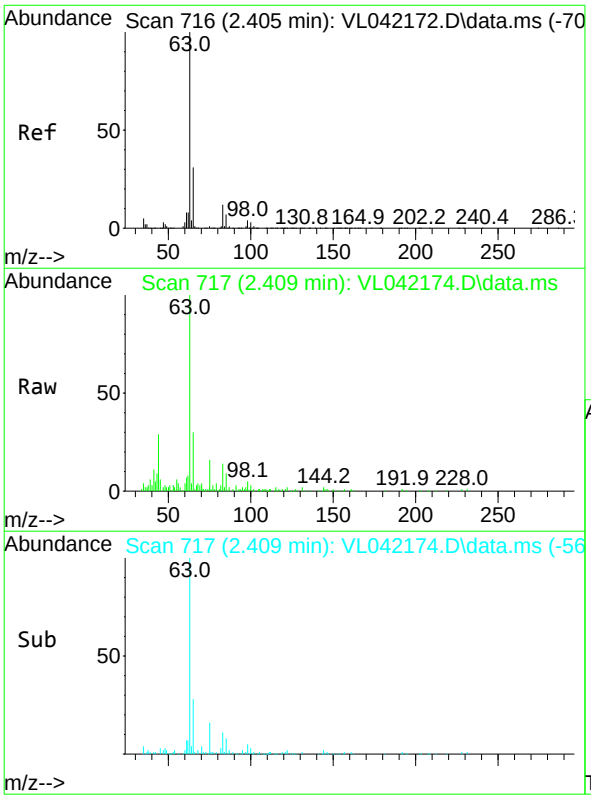
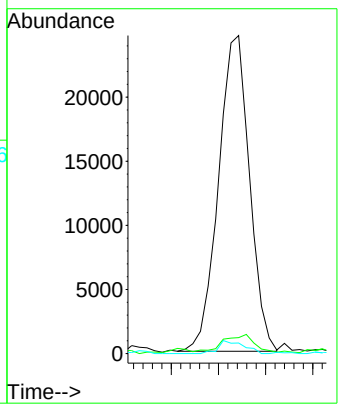
Supervised By :Mahesh Dadoda 04/03/2025

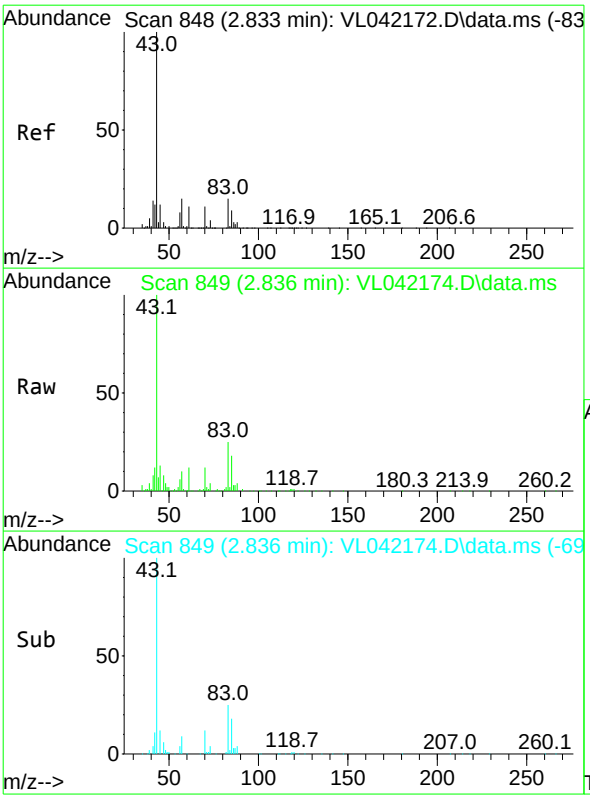



#24
1,1-Dichloroethane
Concen: 1.022 ppbv
RT: 2.409 min Scan# 717
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 63 Resp: 22505

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 4.6 | 2.3 | 6.8 |
| 100 | 3.4 | 1.6 | 4.7 |

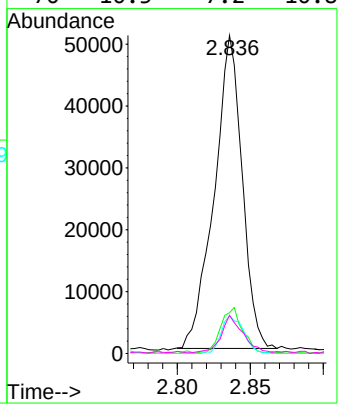





#25
Ethyl Acetate
Concen: 0.997 ppbv
RT: 2.836 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 43 Resp: 67402

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 12.3 | 8.2 | 12.2# |
| 61 | 9.6 | 7.3 | 10.9 |
| 70 | 10.3 | 7.2 | 10.8 |




**Instrument :**
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VSTDICC001

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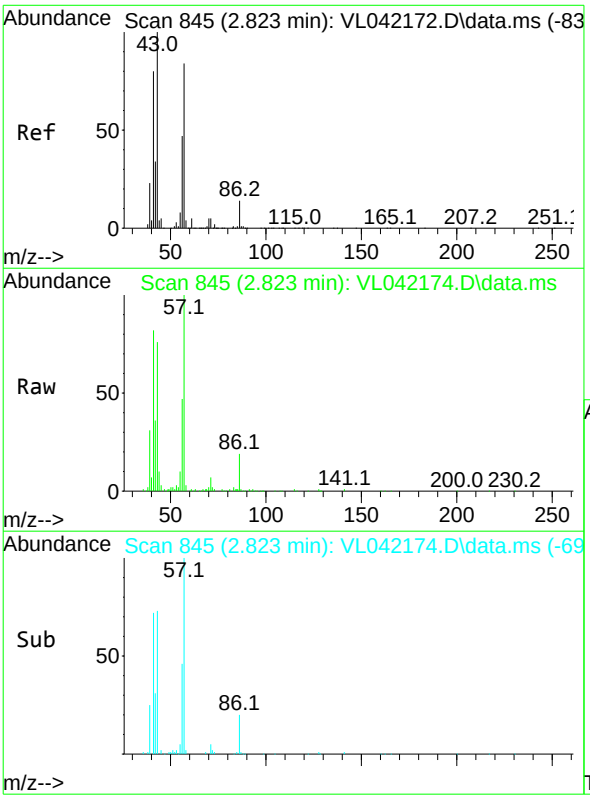
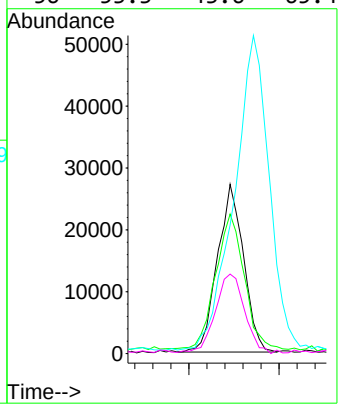
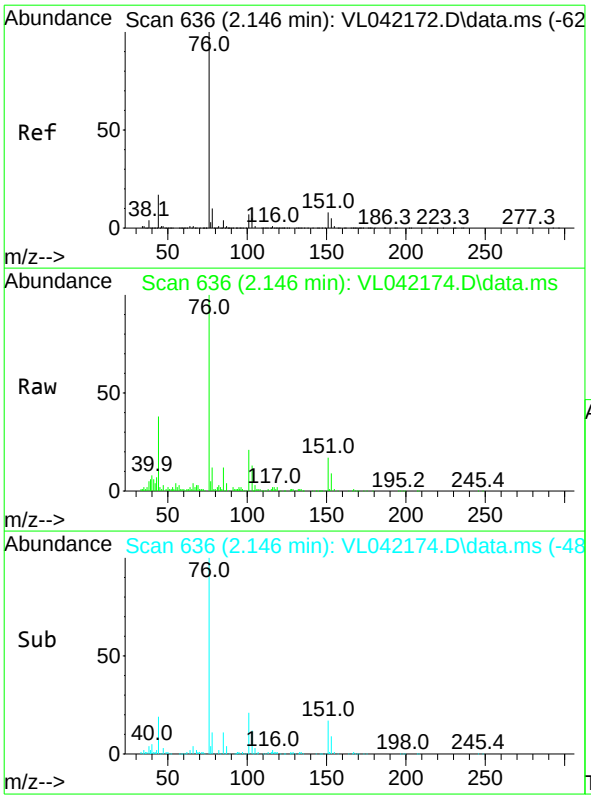



#26
Hexane
Concen: 1.043 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 57 Resp: 27223

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 93.5 | 76.6 | 114.8 |
| 43 | 256.9 | 207.8 | 311.8 |
| 56 | 53.3 | 43.6 | 65.4 |

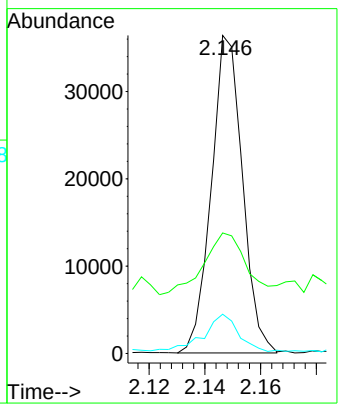





#27
Carbon Disulfide
Concen: 1.006 ppbv
RT: 2.146 min Scan# 63
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 76 Resp: 28167

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 54.6 | 14.7 | 22.1# |
| 78 | 15.0 | 9.3 | 13.9# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
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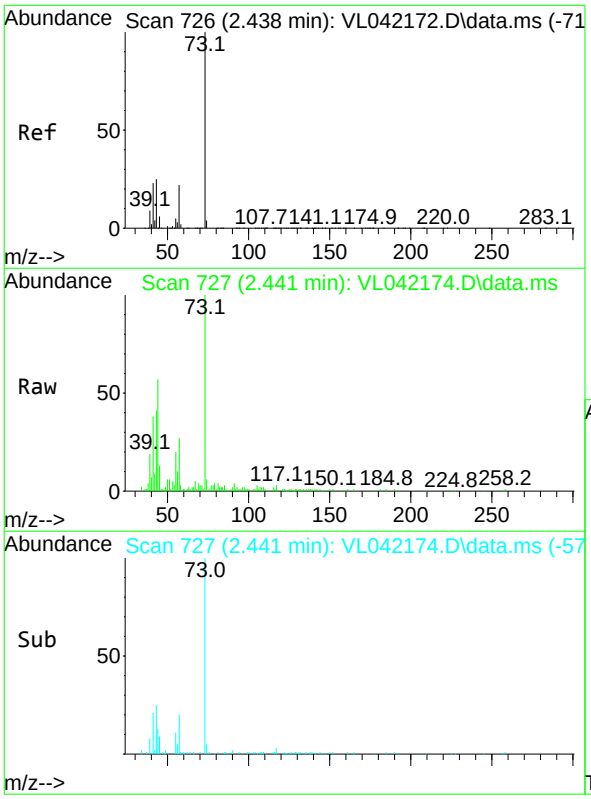
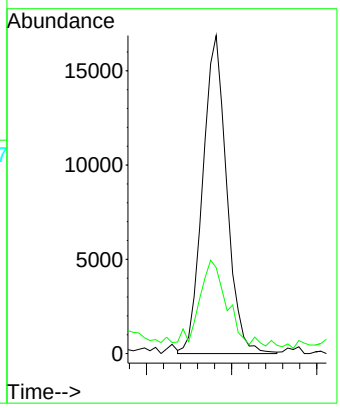
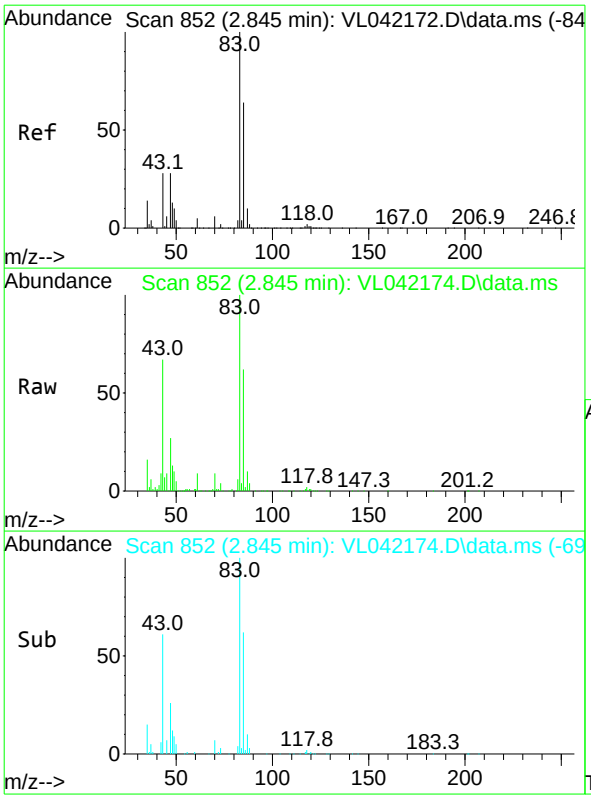



#28
Methyl tert-Butyl Ether
Concen: 1.015 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 73 Resp: 16501

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 28.0 | 20.5 | 30.7 |






#29
Chloroform
Concen: 1.008 ppbv
RT: 2.845 min Scan# 85
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 83 Resp: 38516

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 61.6 | 51.4 | 77.2 |

**Instrument :**
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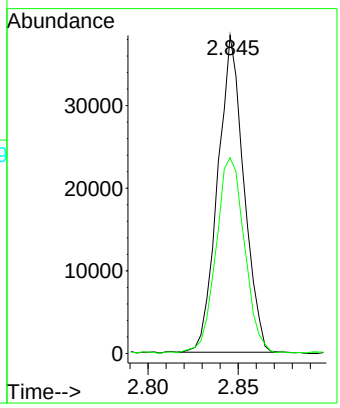
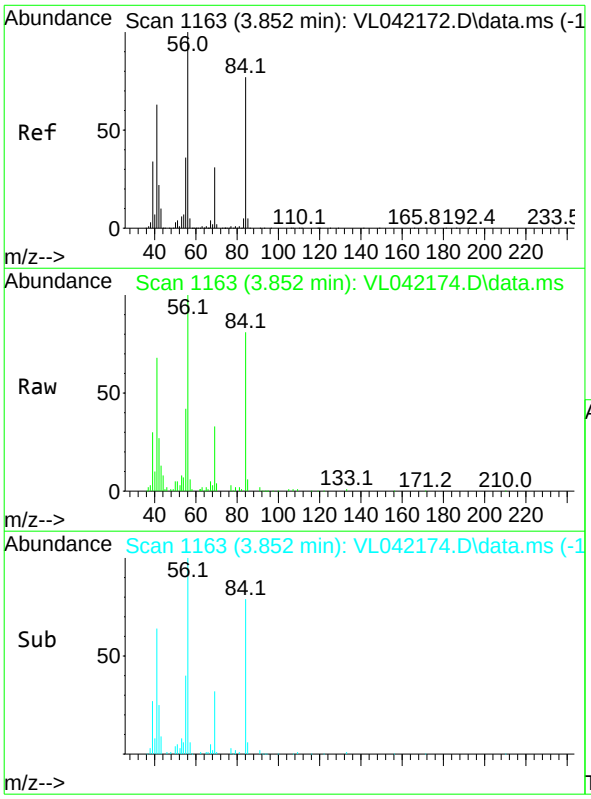
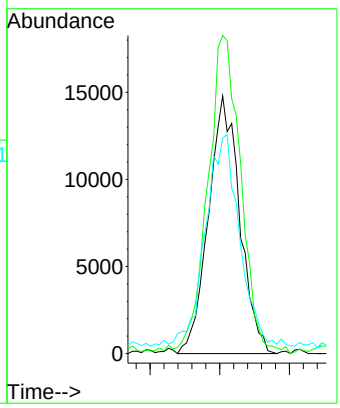


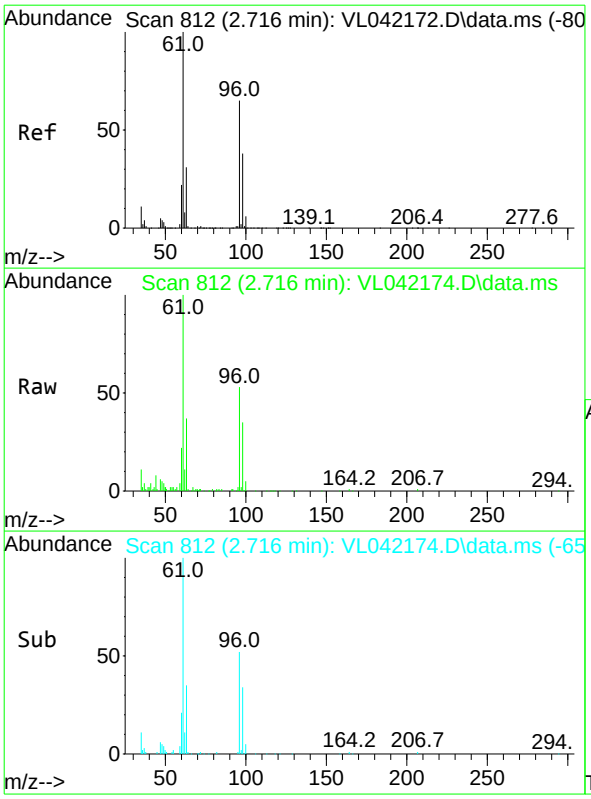




#30
Cyclohexane
Concen: 1.016 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 84 Resp: 23052

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 128.9 | 102.8 | 154.2 |
| 41 | 89.3 | 66.5 | 99.7 |

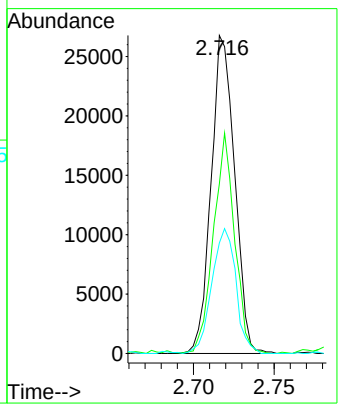





#31
cis-1,2-Dichloroethene
Concen: 1.026 ppbv
RT: 2.716 min Scan# 81
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 61 Resp: 27187

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 53.3 | 51.8 | 77.8 |
| 98 | 34.8 | 30.6 | 46.0 |




**Instrument :**
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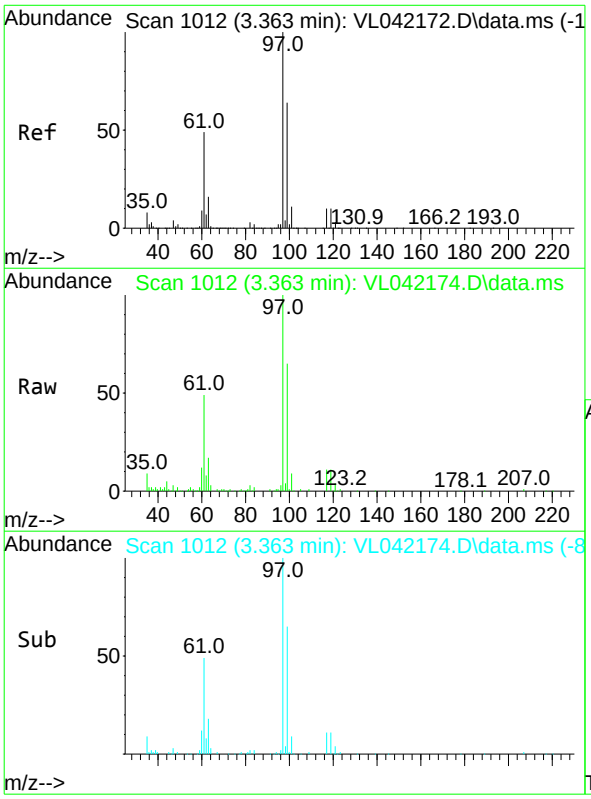
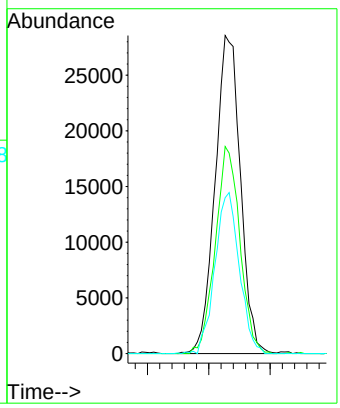
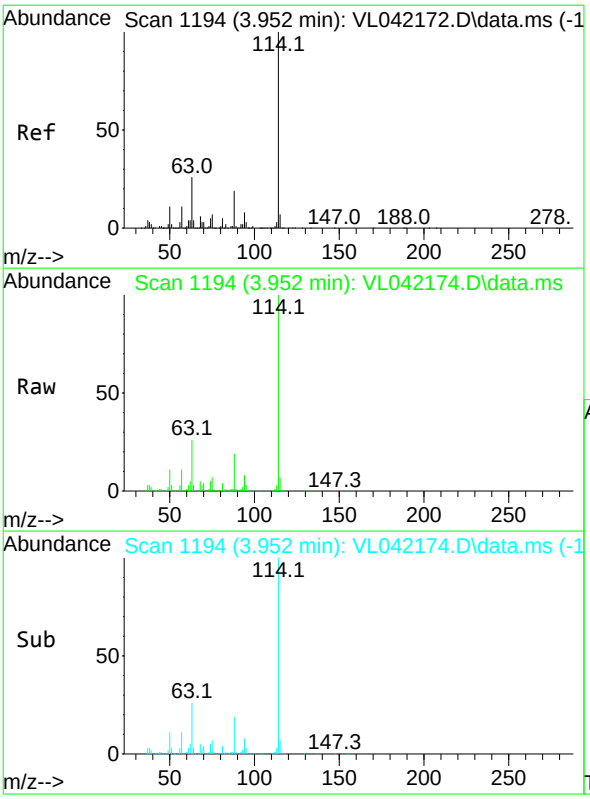



#32
1,1,1-Trichloroethane
Concen: 0.938 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 97 Resp: 40993

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.0 | 51.5 | 77.3 |
| 61 | 48.8 | 38.7 | 58.1 |

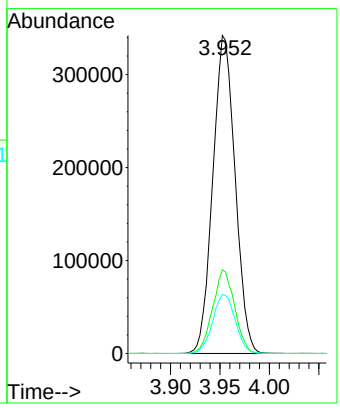





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:114 Resp: 537244

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.8 | 20.7 | 31.1 |
| 88 | 18.8 | 15.0 | 22.4 |

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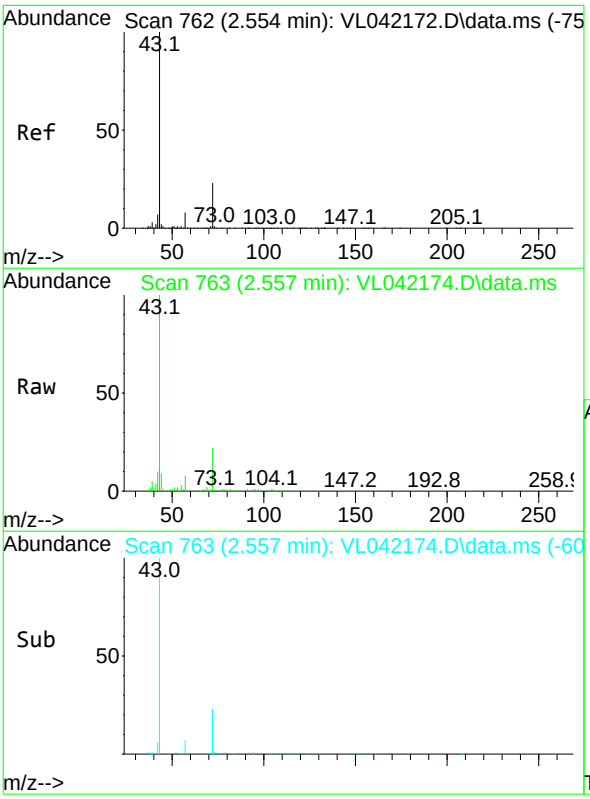
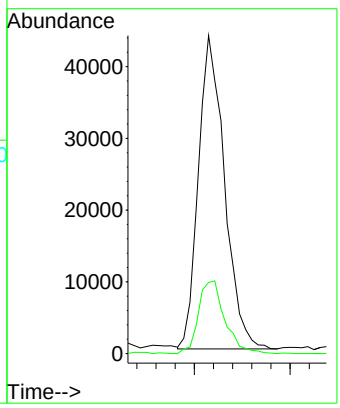
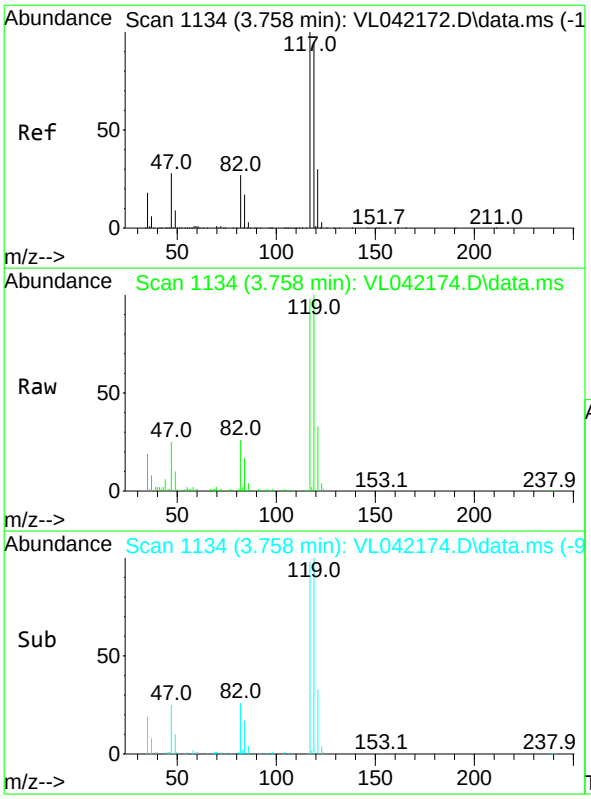



#34
2-Butanone
Concen: 1.063 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 43 Resp: 41423

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 23.5 | 18.2 | 27.2 |

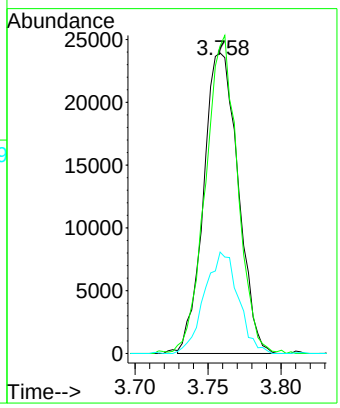





#35
Carbon Tetrachloride
Concen: 0.952 ppbv
RT: 3.758 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:117 Resp: 39345

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 101.8 | 76.2 | 114.2 |
| 121 | 33.7 | 24.2 | 36.4 |




**Instrument :**
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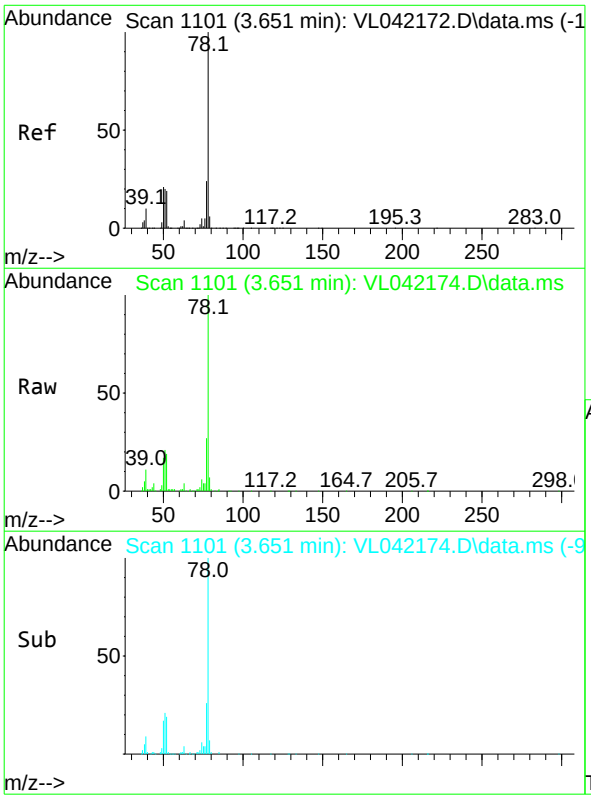
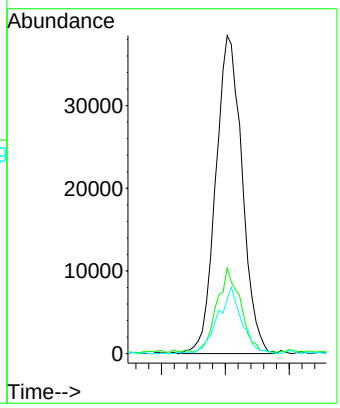
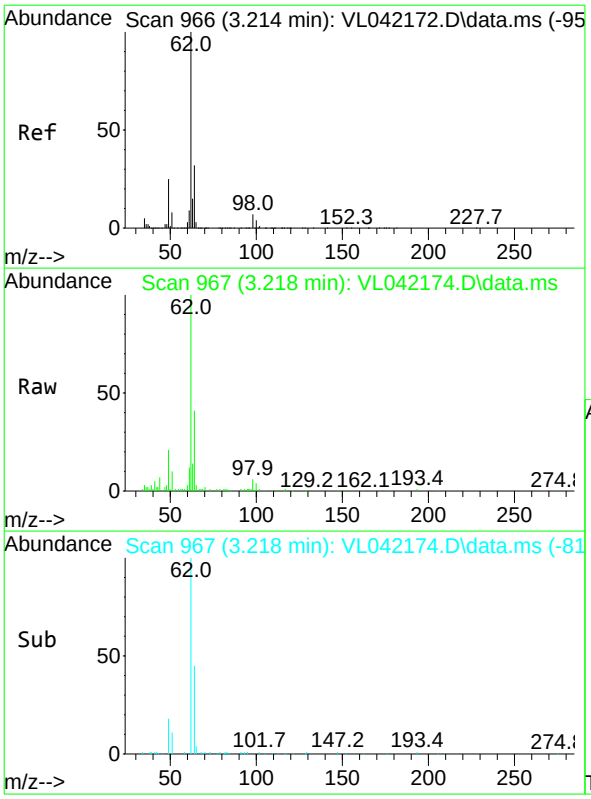



#36
Benzene
Concen: 1.036 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 78 Resp: 55156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 26.5 | 19.1 | 28.7 |
| 50 | 17.1 | 16.6 | 24.8 |

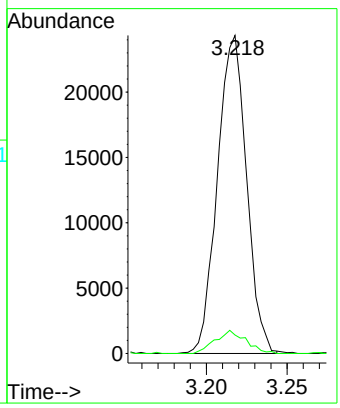





#37
1,2-Dichloroethane
Concen: 1.002 ppbv
RT: 3.218 min Scan# 96
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 62 Resp: 30543

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 7.6 | 5.4 | 8.2 |




**Instrument :**
MSVOA_L
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VSTDICC001

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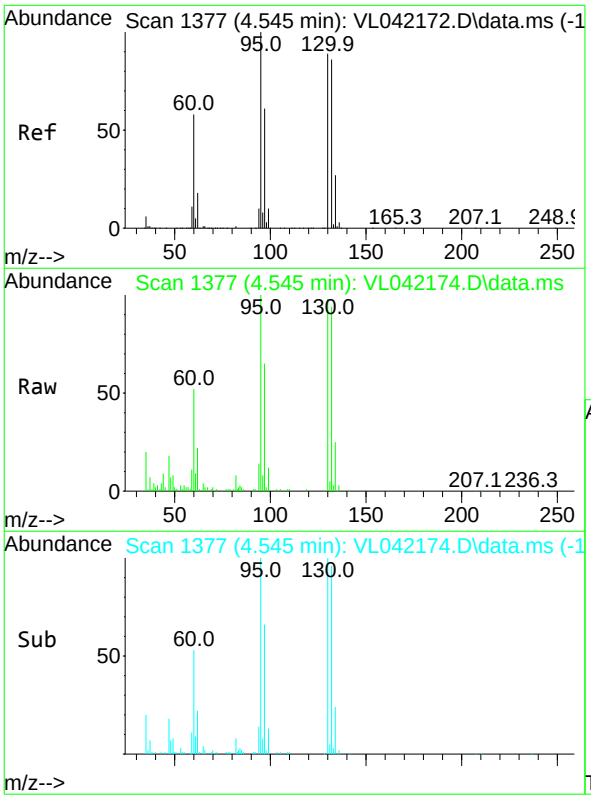
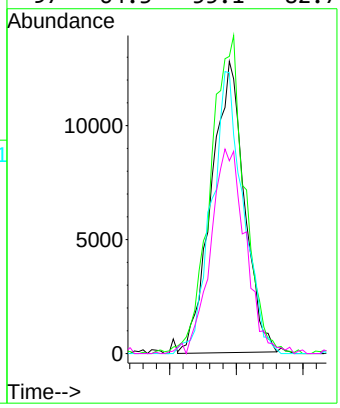
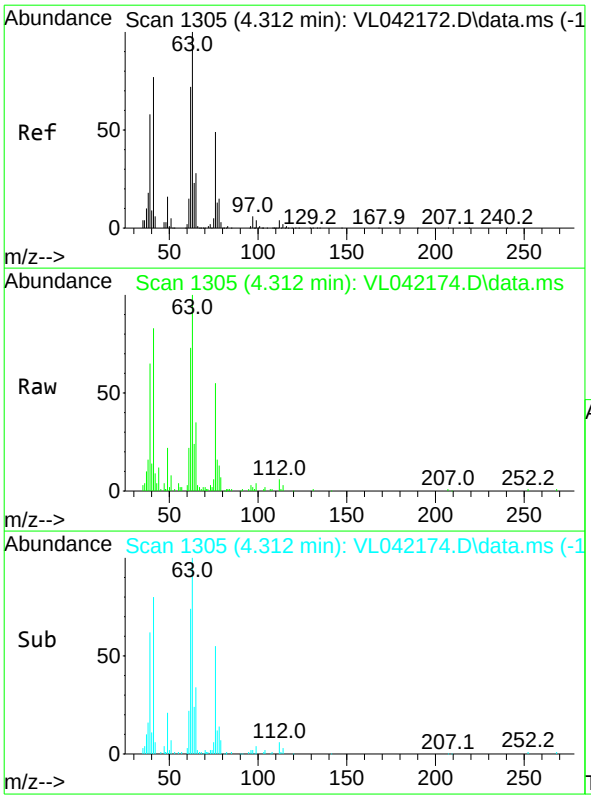



#38
Trichloroethene
Concen: 0.985 ppbv
RT: 4.545 min Scan# 1377
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:130 Resp: 21906

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 100.2 | 89.8 | 134.8 |
| 132 | 95.3 | 77.4 | 116.2 |
| 97 | 64.3 | 55.1 | 82.7 |

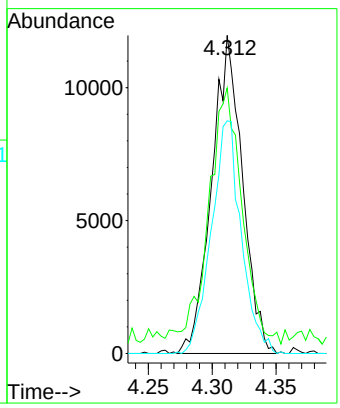





#39
1,2-Dichloropropane
Concen: 1.032 ppbv
RT: 4.312 min Scan# 13
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 63 Resp: 20020

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 76.8 | 61.7 | 92.5 |
| 62 | 73.1 | 57.6 | 86.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

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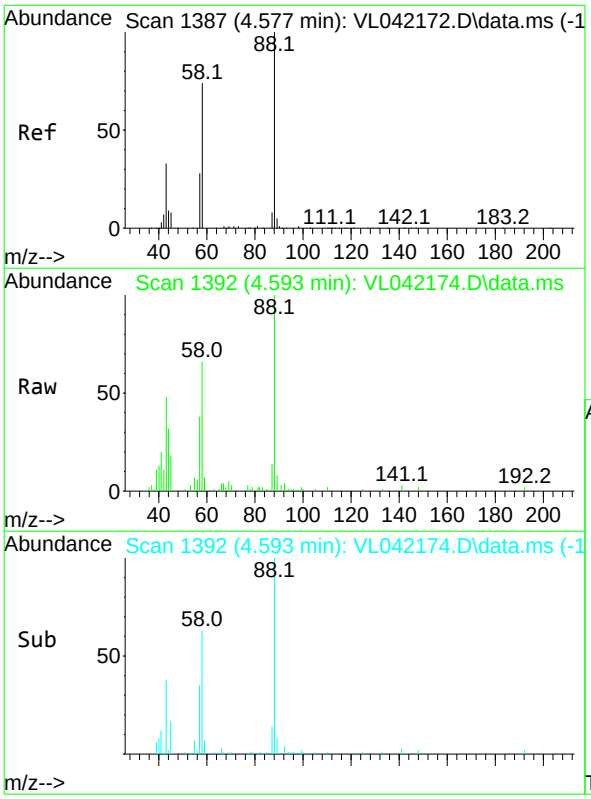
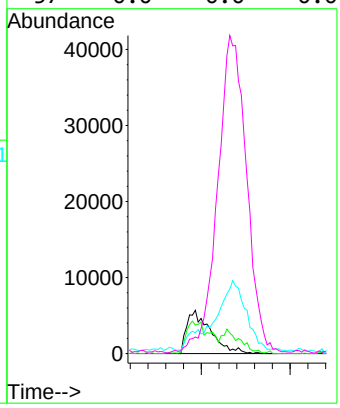
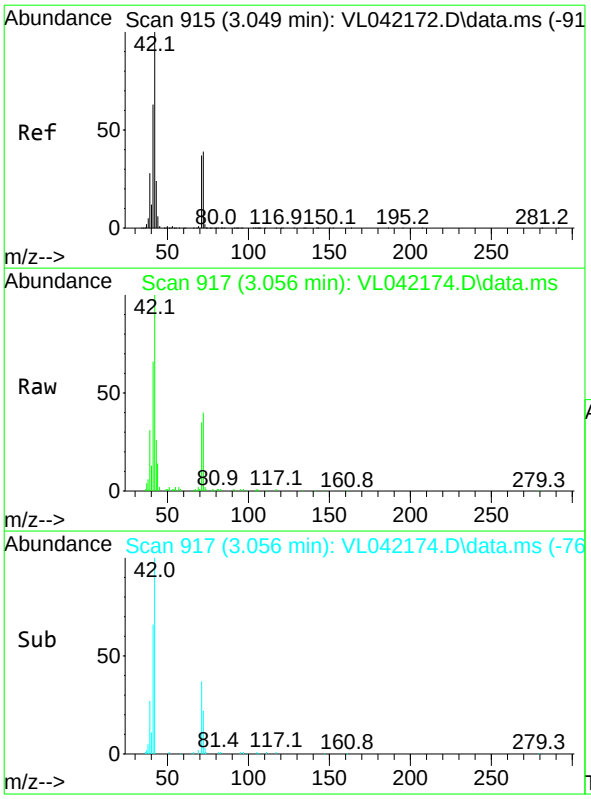



#40
1,4-Dioxane
Concen: 1.052 ppbv m
RT: 4.593 min Scan# 1392
Delta R.T. 0.016 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 88 Resp: 10592

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 115.3 | 62.7 | 94.1# |
| 43 | 0.0 | 23.0 | 34.4# |
| 57 | 0.0 | 0.0 | 0.0 |

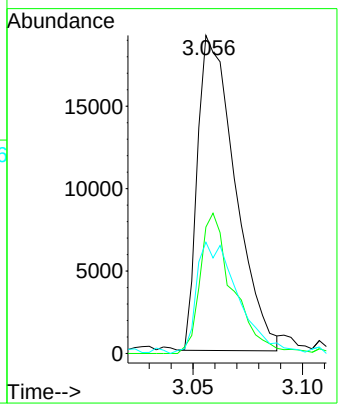





#41
Tetrahydrofuran
Concen: 1.029 ppbv
RT: 3.056 min Scan# 91
Delta R.T. 0.007 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 42 Resp: 22818

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 39.4 | 31.4 | 47.0 |
| 71 | 40.8 | 30.2 | 45.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

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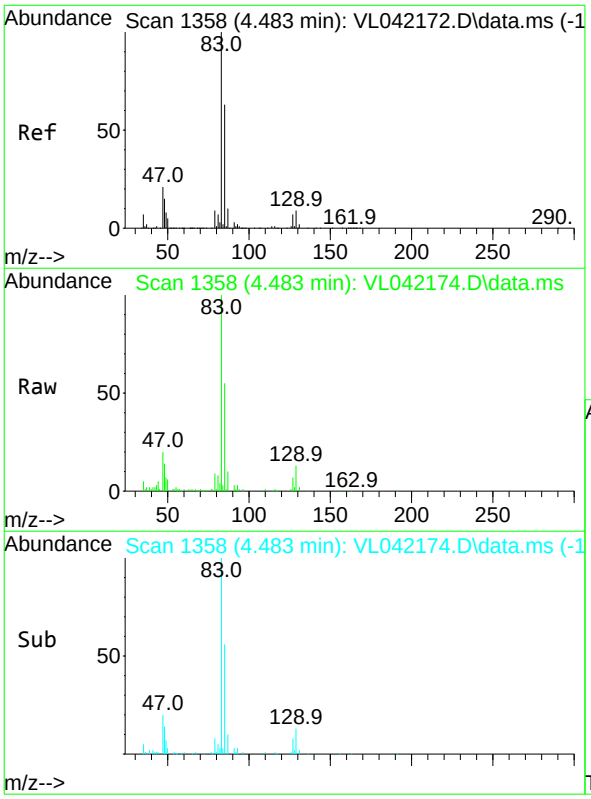
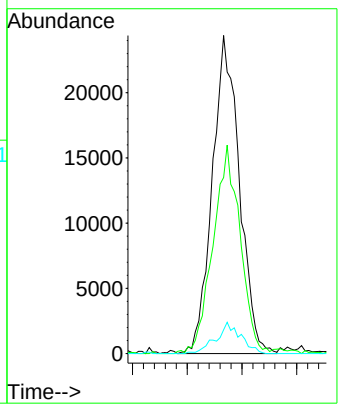
Supervised By :Mahesh Dadoda 04/03/2025

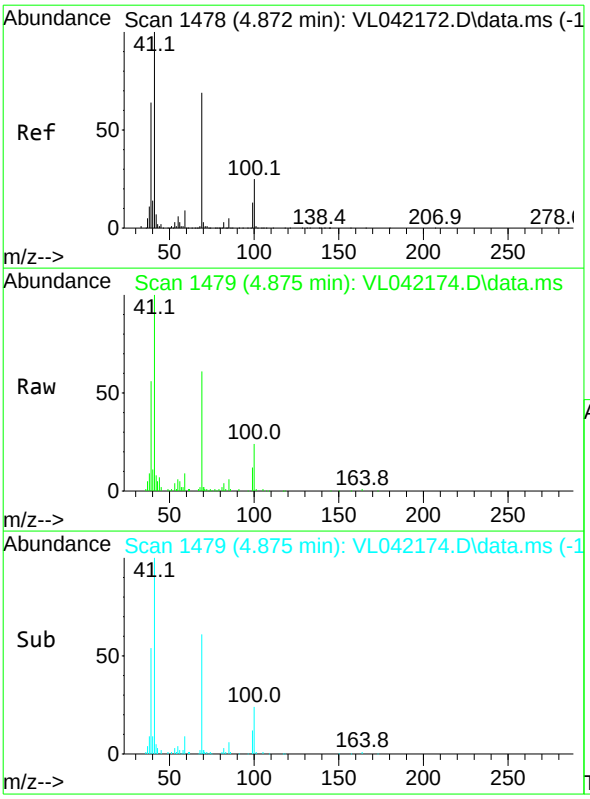



#42
Bromodichloromethane
Concen: 0.996 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 83 Resp: 41864

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 54.7 | 50.5 | 75.7 |
| 127 | 7.5 | 5.9 | 8.9 |

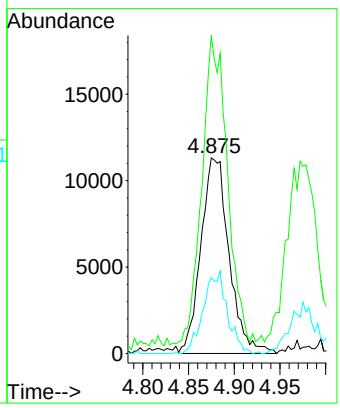





#43
Methyl Methacrylate
Concen: 1.078 ppbv m
RT: 4.875 min Scan# 14
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 69 Resp: 24233

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 146.1 | 123.8 | 185.6 |
| 100 | 0.0 | 28.4 | 42.6# |




**Instrument :**
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VSTDICC001

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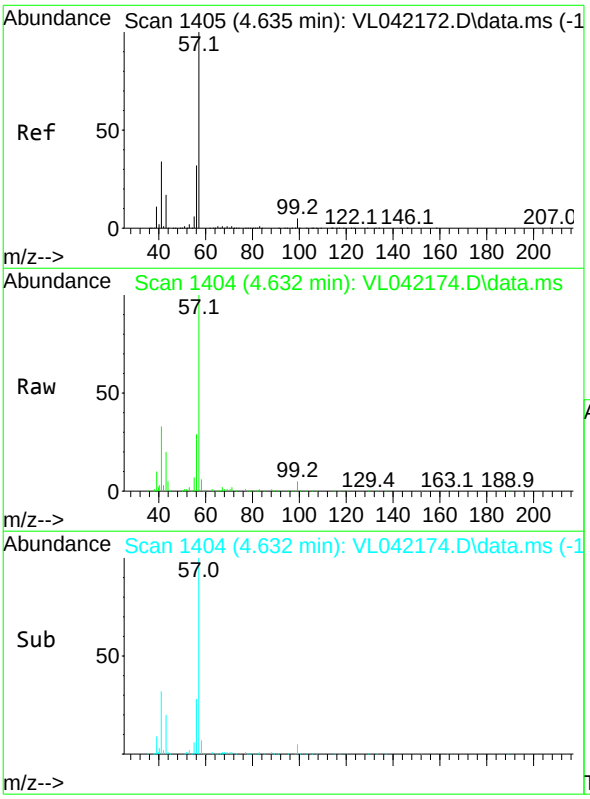
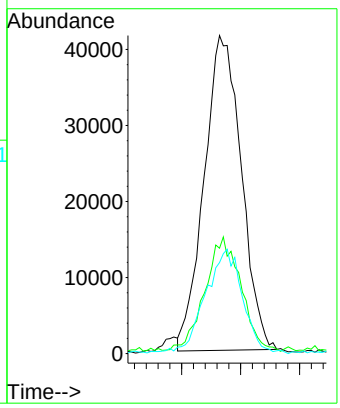
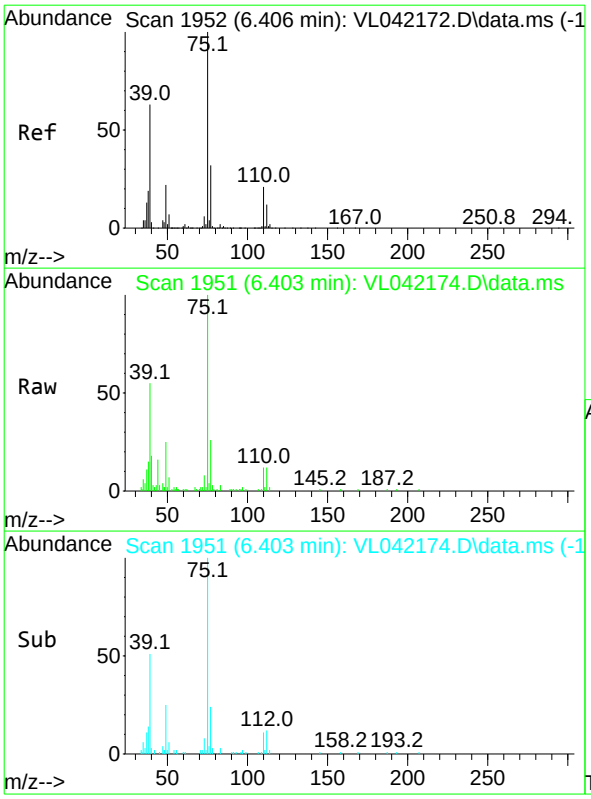



#44
2,2,4-Trimethylpentane
Concen: 1.008 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. -0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 57 Resp: 90727

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 35.9 | 26.8 | 40.2 |
| 56 | 33.7 | 25.6 | 38.4 |

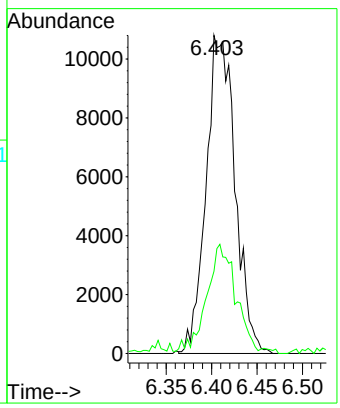





#45
t-1,3-Dichloropropene
Concen: 0.992 ppbv m
RT: 6.403 min Scan# 19
Delta R.T. -0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 75 Resp: 23993

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 25.9 | 26.0 | 39.0# |




**Instrument :**
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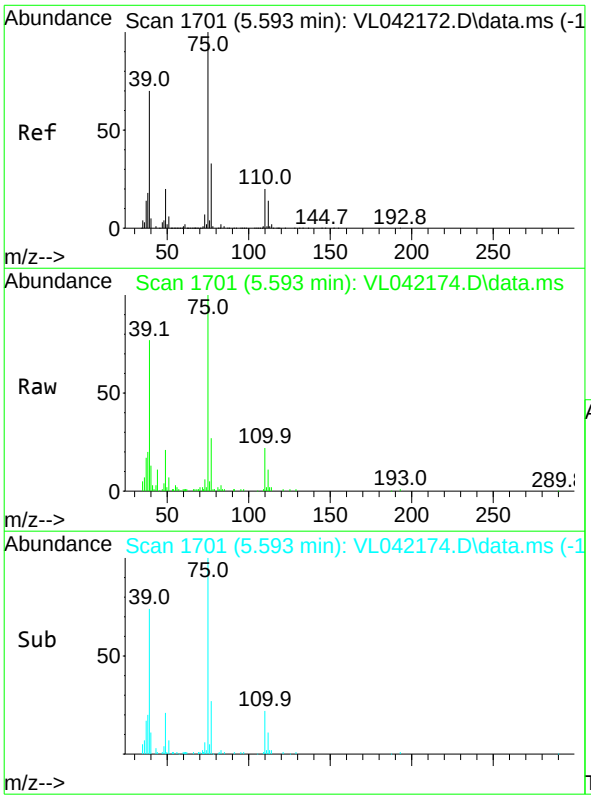
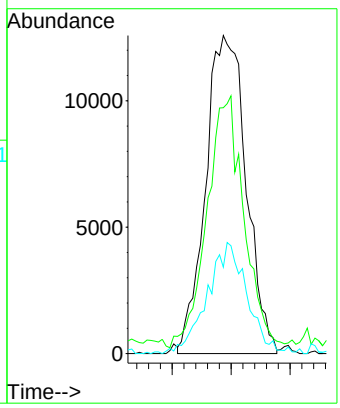
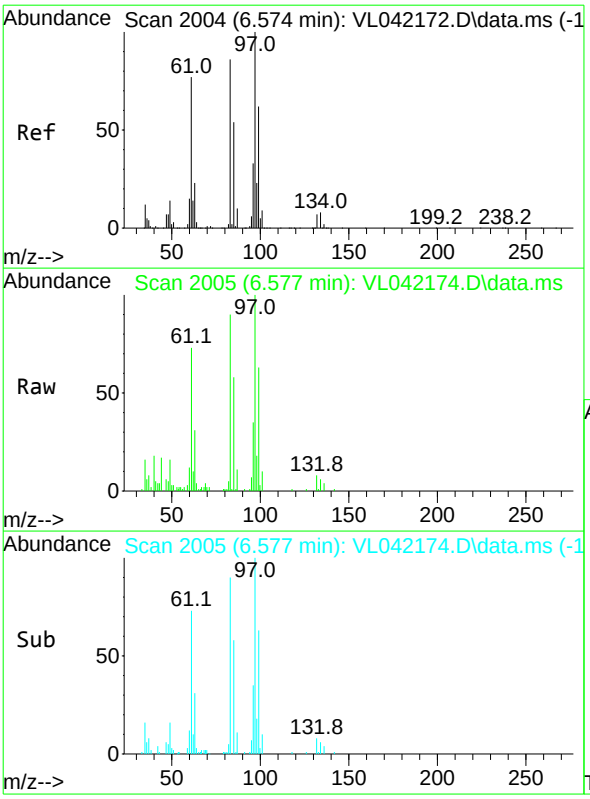



#46
cis-1,3-Dichloropropene
Concen: 1.014 ppbv
RT: 5.593 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 75 Resp: 30063

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 39 | 74.2 | 55.8 | 83.6 |
| 77 | 26.4 | 26.0 | 39.0 |

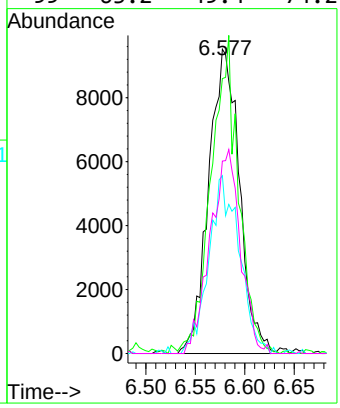





#47
1,1,2-Trichloroethane
Concen: 1.002 ppbv
RT: 6.577 min Scan# 20
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 97 Resp: 20546

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 89.7 | 69.2 | 103.8 |
| 85 | 58.4 | 43.1 | 64.7 |
| 99 | 63.2 | 49.4 | 74.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

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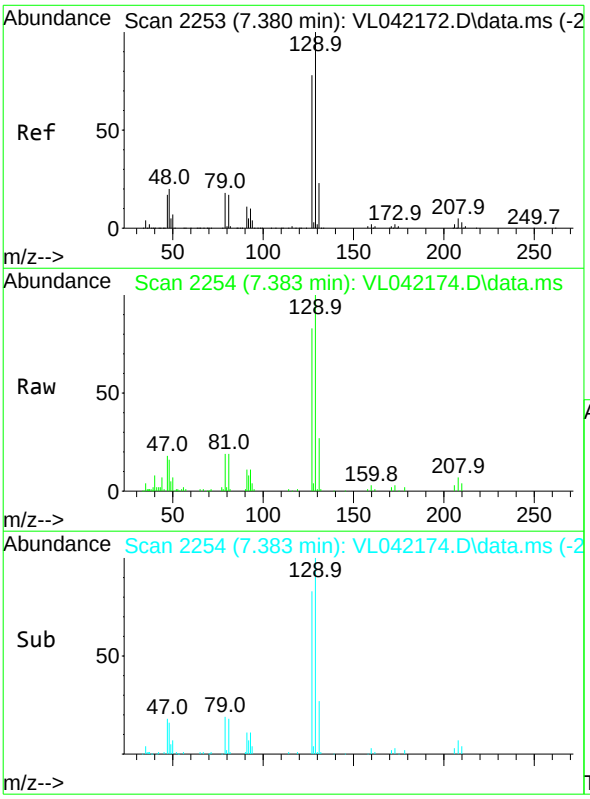
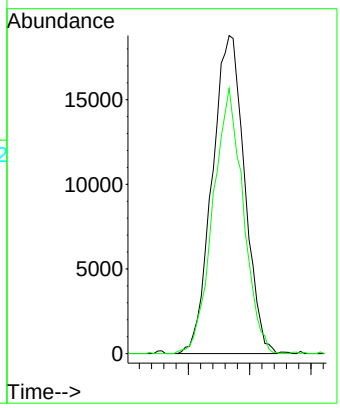
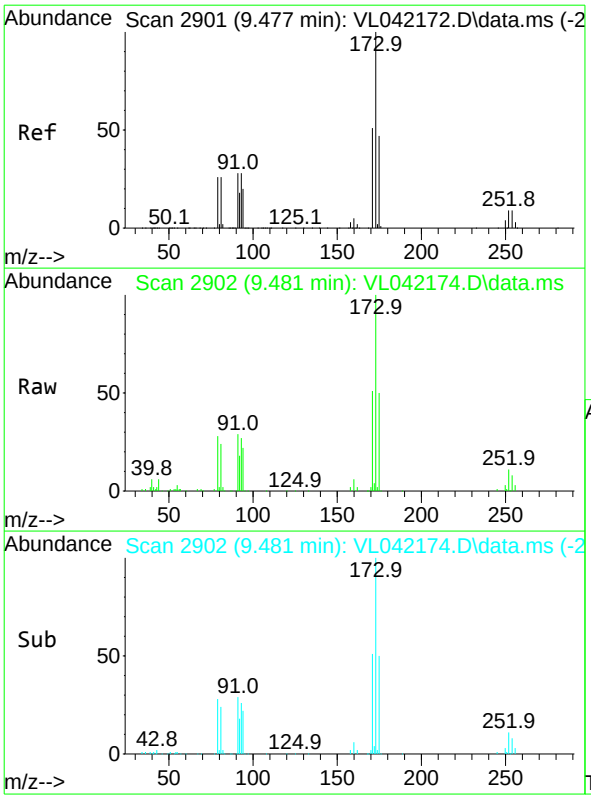



#48
Dibromochloromethane
Concen: 0.991 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:129 Resp: 34425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.1 | 39.1 | 117.2 |

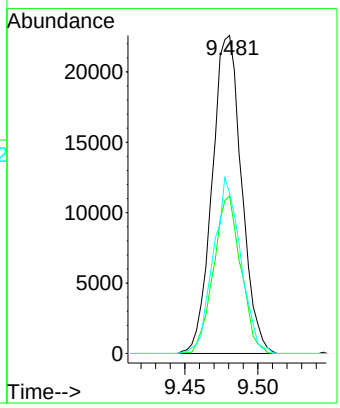





#49
Bromoform
Concen: 1.013 ppbv
RT: 9.481 min Scan# 29
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:173 Resp: 31610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 46.1 | 38.6 | 57.8 |
| 171 | 51.3 | 41.8 | 62.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

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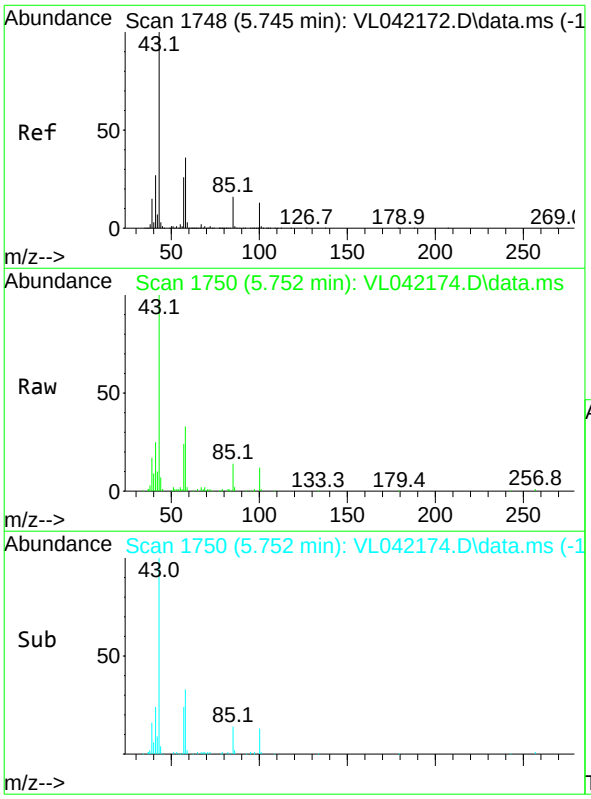
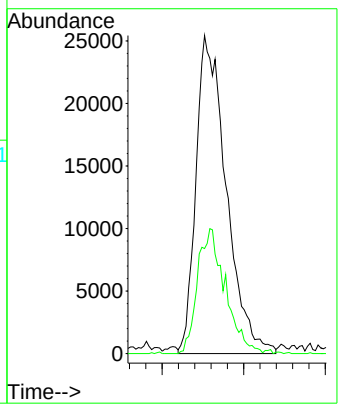
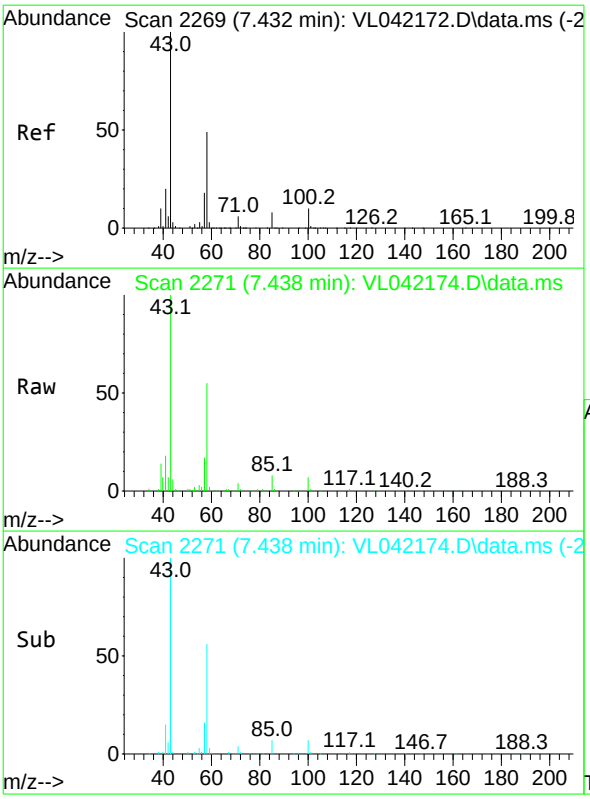



#50
4-Methyl-2-Pentanone
Concen: 1.056 ppbv m
RT: 5.752 min Scan# 1750
Delta R.T. 0.007 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 43 Resp: 65226

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 0.0 | 29.0 | 43.6# |

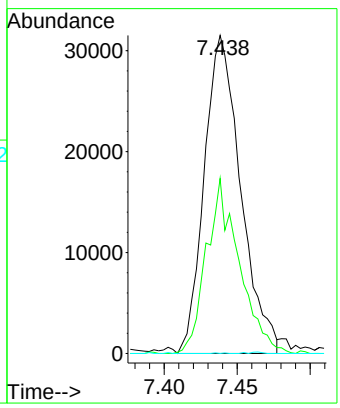





#51
2-Hexanone
Concen: 1.067 ppbv
RT: 7.438 min Scan# 22
Delta R.T. 0.007 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 43 Resp: 54680

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 49.8 | 39.7 | 59.5 |
| 98 | 0.2 | 0.1 | 0.1# |




**Instrument :**
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VSTDICC001

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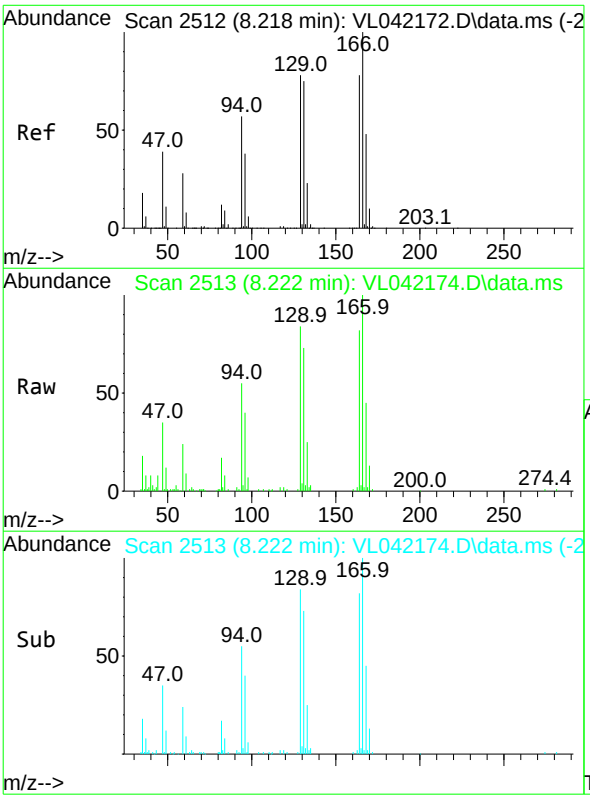
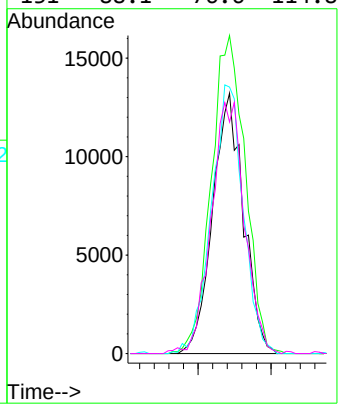
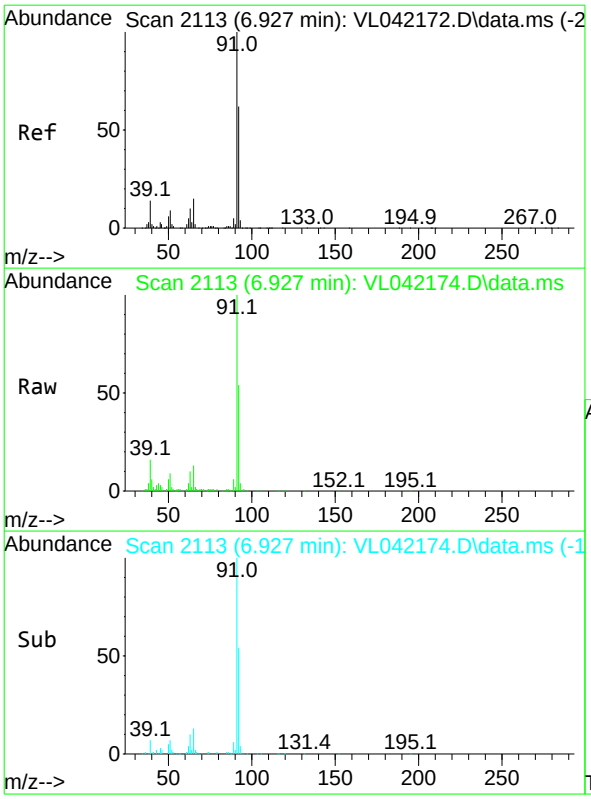



#52
Tetrachloroethene
Concen: 0.919 ppbv
RT: 8.222 min Scan# 2513
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:164 Resp: 19415

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 121.4 | 102.5 | 153.7 |
| 129 | 102.4 | 79.8 | 119.8 |
| 131 | 88.1 | 76.6 | 114.8 |

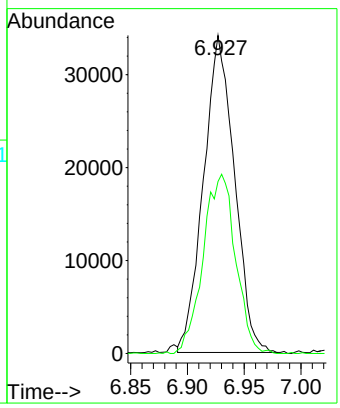





#53
Toluene
Concen: 1.023 ppbv
RT: 6.927 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 91 Resp: 64612

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 59.4 | 48.4 | 72.6 |

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VSTDICC001

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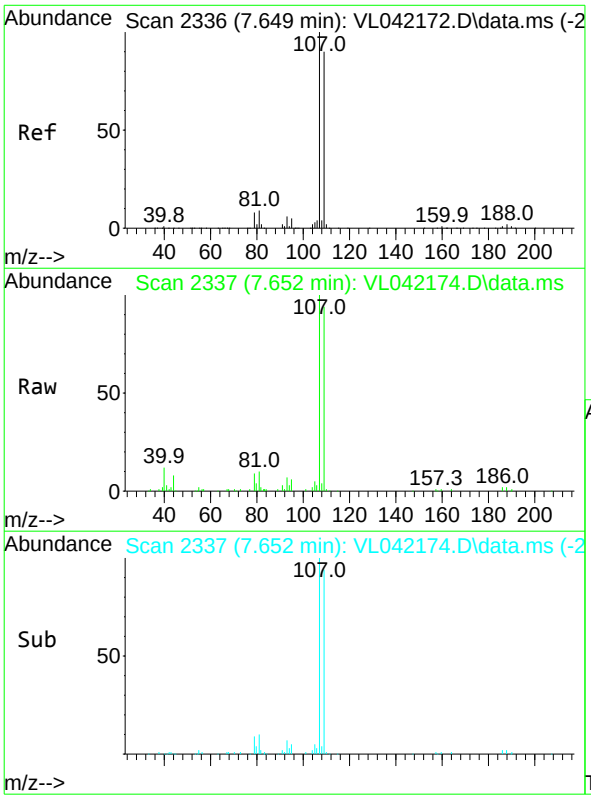
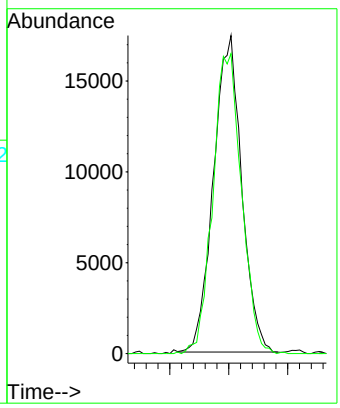
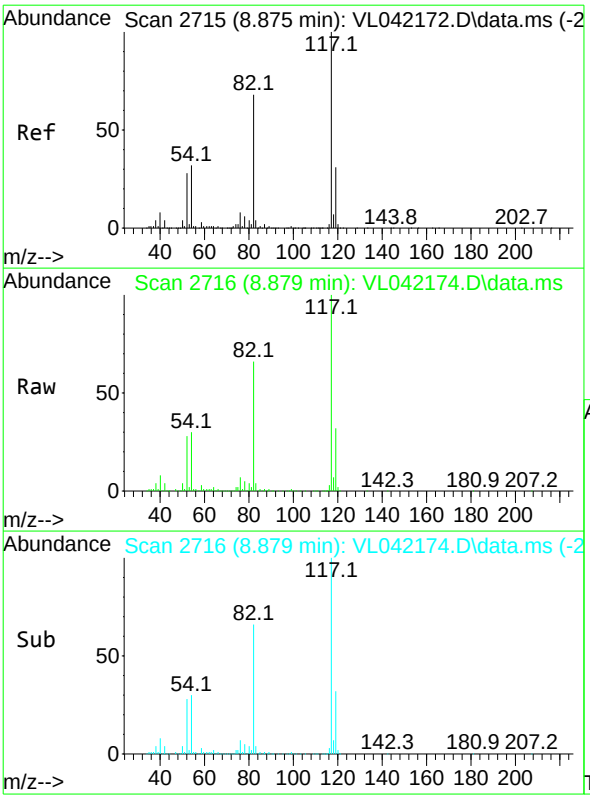



#54
1,2-Dibromoethane
Concen: 1.009 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:107 Resp: 28879

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.8 | 72.2 | 108.4 |

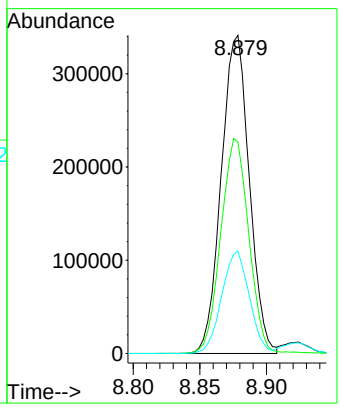





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 27
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:117 Resp: 499830

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 67.6 | 55.8 | 83.6 |
| 119 | 32.2 | 25.5 | 38.3 |

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VSTDICC001

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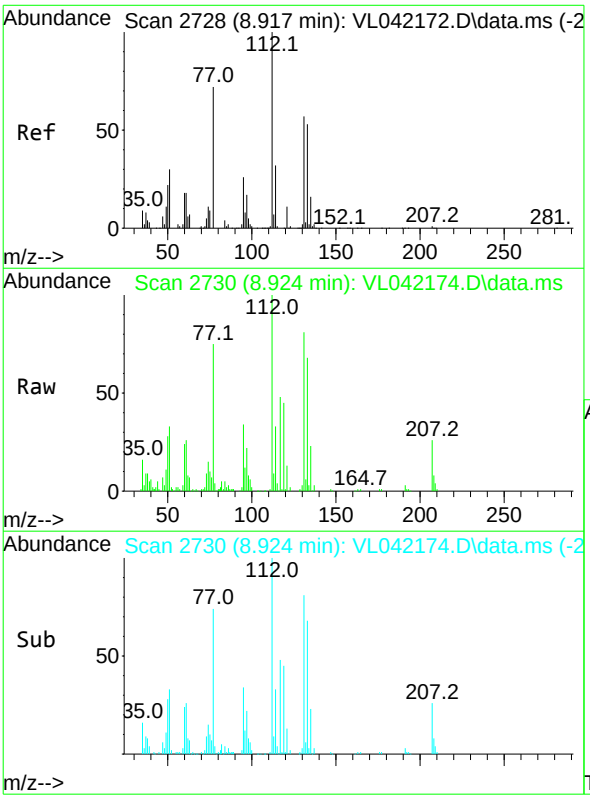
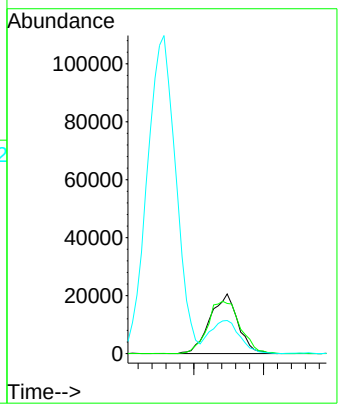
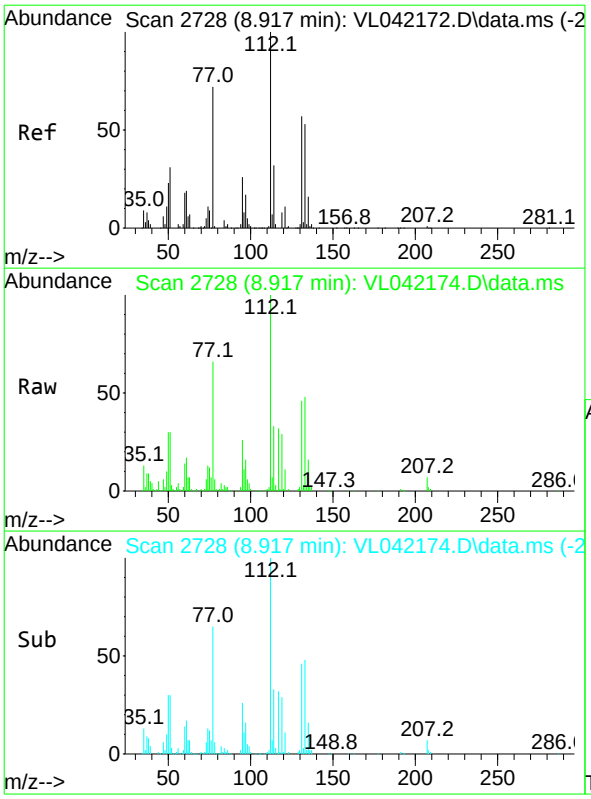



#56
1,1,1,2-Tetrachloroethane
Concen: 1.045 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. 0.007 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:131 Resp: 28764

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 101.7 | 76.6 | 114.8 |
| 119 | 44.1 | 49.8 | 74.6# |

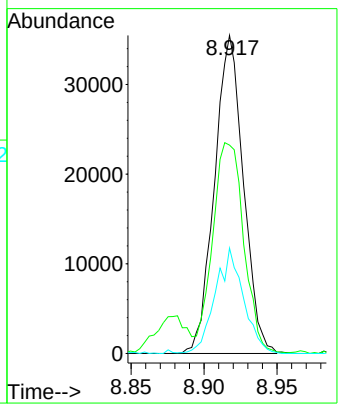





#57
Chlorobenzene
Concen: 1.032 ppbv
RT: 8.917 min Scan# 27
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:112 Resp: 48930

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 65.0 | 58.2 | 87.2 |
| 114 | 32.9 | 29.1 | 35.5 |

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MSVOA_L
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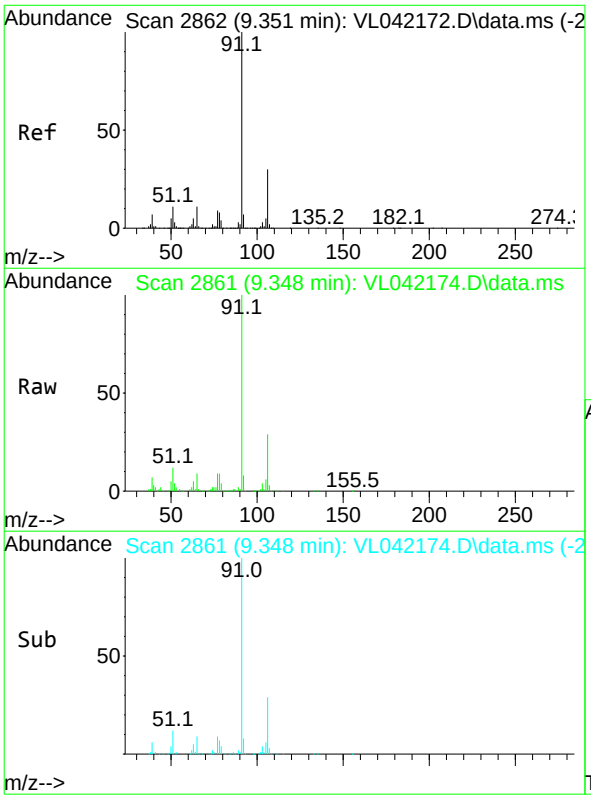
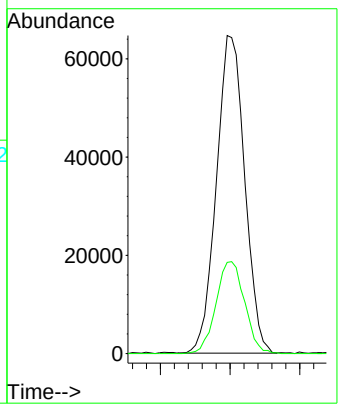
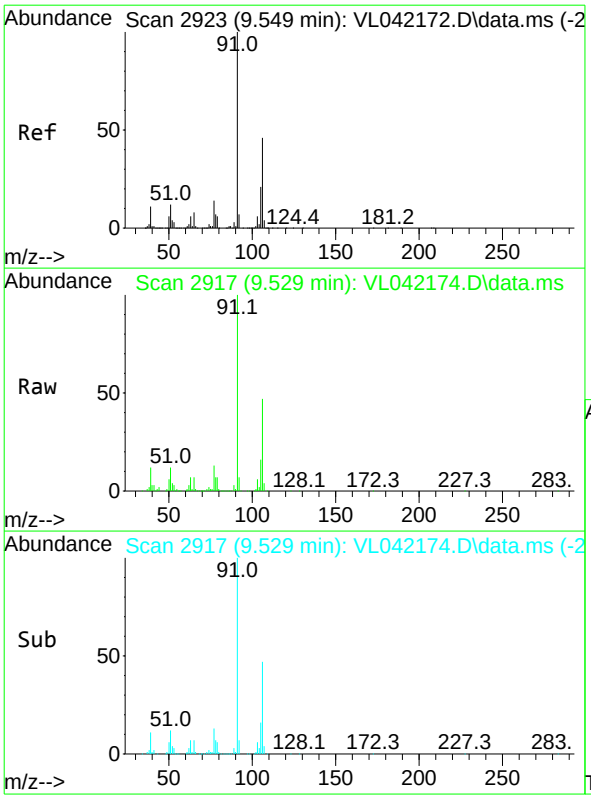



#58
Ethyl Benzene
Concen: 1.026 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. -0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 91 Resp: 91086

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 28.7 | 24.2 | 36.2 |

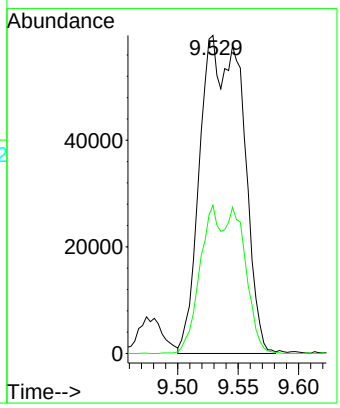





#59
m/p-Xylene
Concen: 2.073 ppbv m
RT: 9.529 min Scan# 29
Delta R.T. -0.019 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 91 Resp: 147162

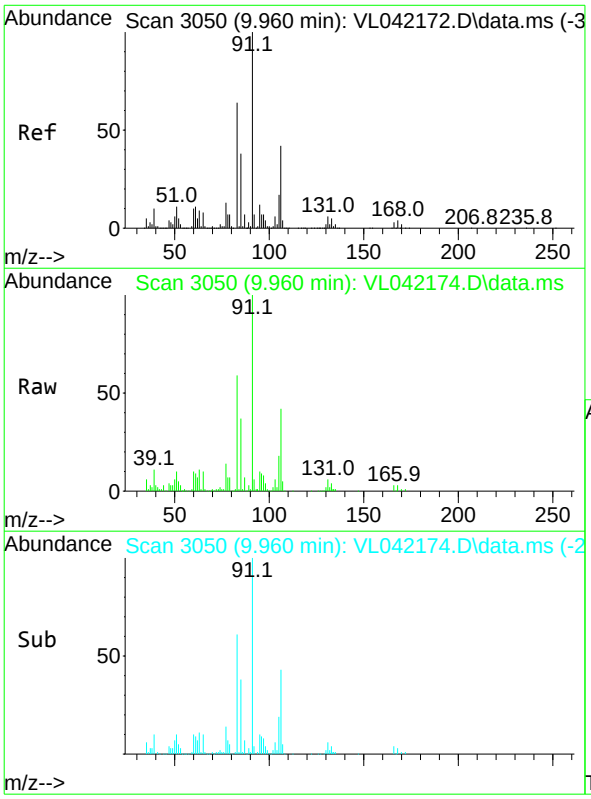
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 0.0 | 36.4 | 54.6# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

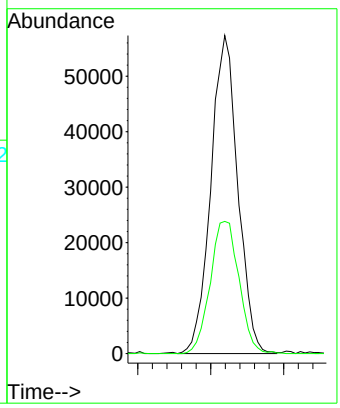
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

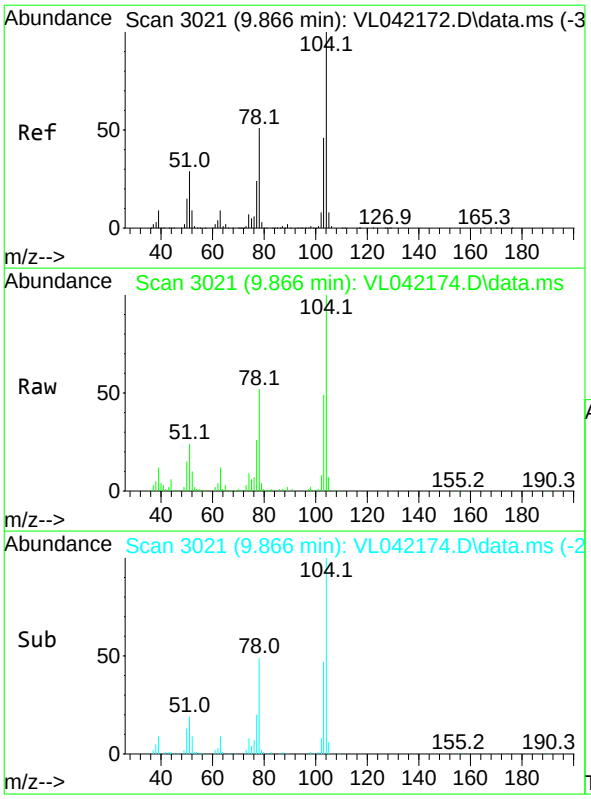



#60
o-Xylene
Concen: 1.037 ppbv
RT: 9.960 min Scan# 3050
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 91 Resp: 73702

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 44.3 | 20.8 | 62.5 |

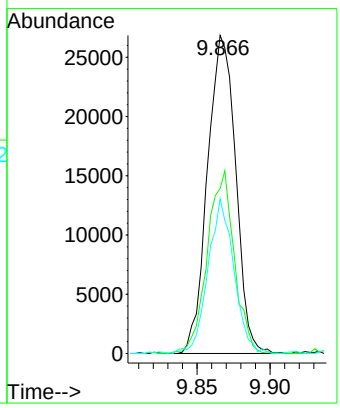





#61
Styrene
Concen: 1.027 ppbv
RT: 9.866 min Scan# 30
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:104 Resp: 36110

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 54.9 | 41.8 | 62.6 |
| 103 | 45.1 | 37.0 | 55.4 |




**Instrument :**
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VSTDICC001

**Manual Integrations**
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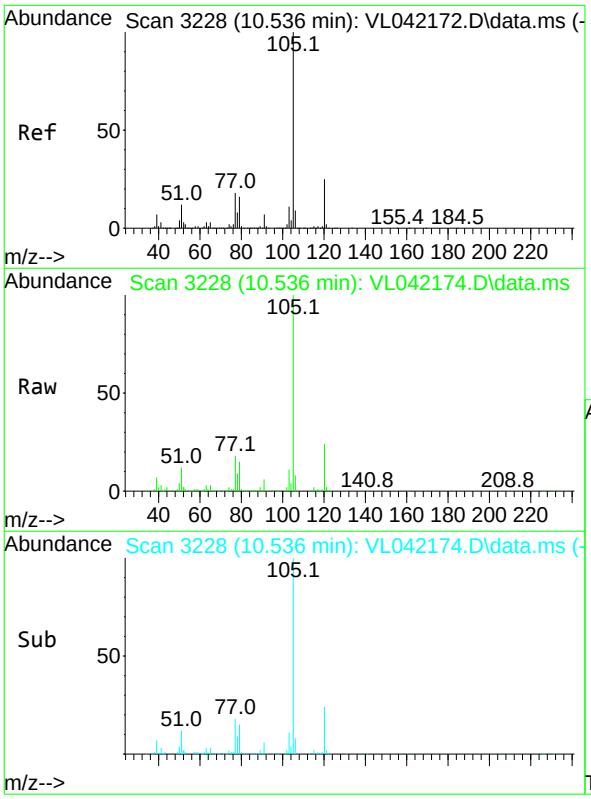
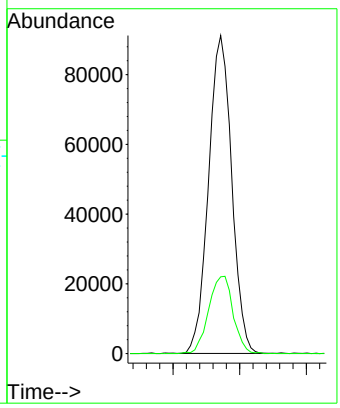
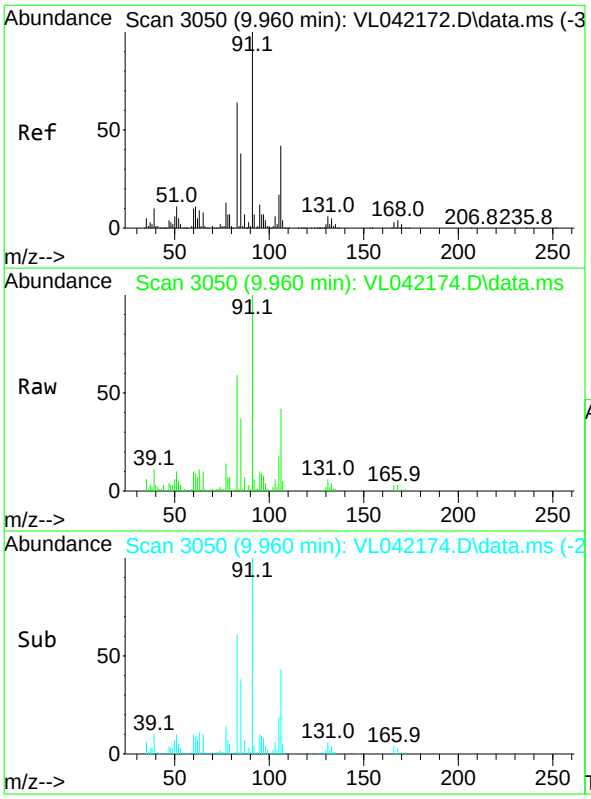



#62
Isopropylbenzene
Concen: 1.034 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:105 Resp: 109897

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.7 | 19.9 | 29.9 |

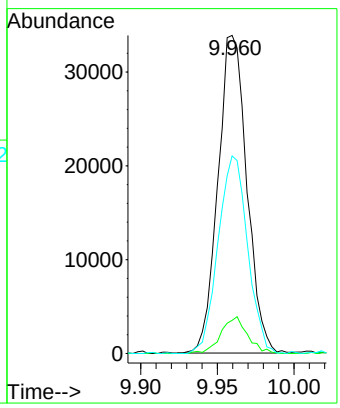





#63
1,1,2,2-Tetrachloroethane
Concen: 1.029 ppbv
RT: 9.960 min Scan# 30
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 83 Resp: 44431

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.6 | 4.8 | 14.4 |
| 85 | 64.0 | 32.5 | 97.5 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
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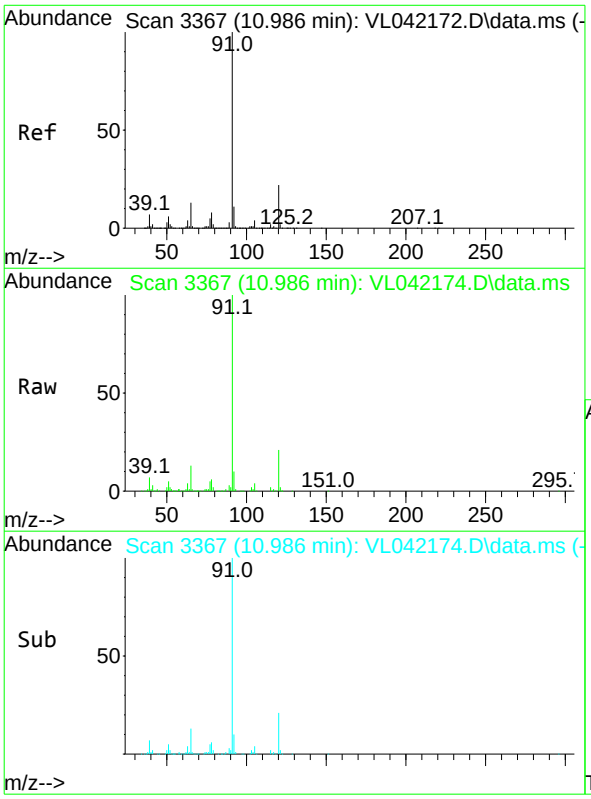
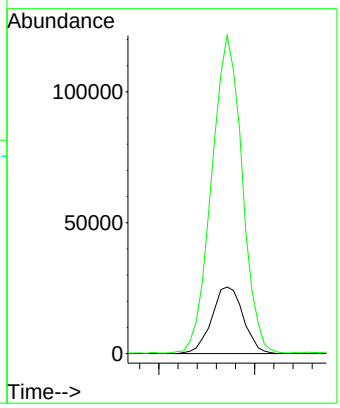
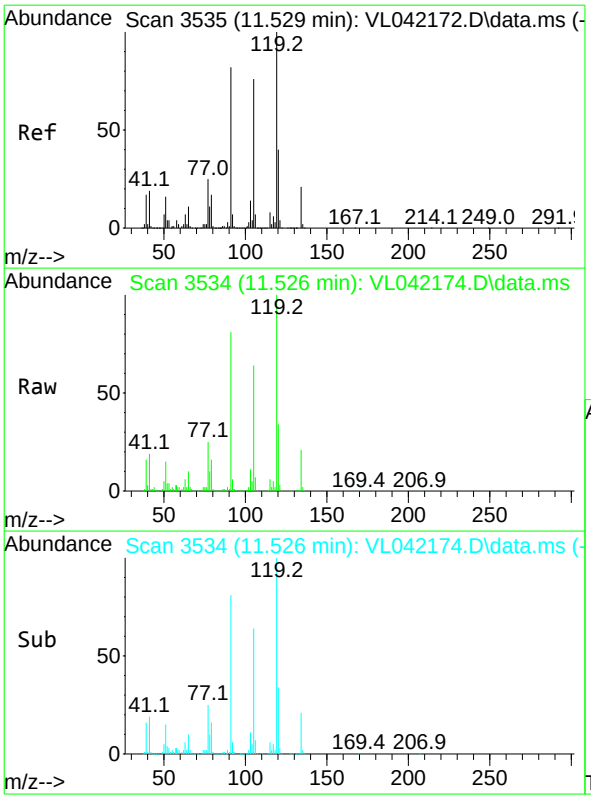



#64
n-propylbenzene
Concen: 1.062 ppbv
RT: 10.986 min Scan# 3367
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:120 Resp: 29054

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 466.9 | 376.9 | 565.3 |

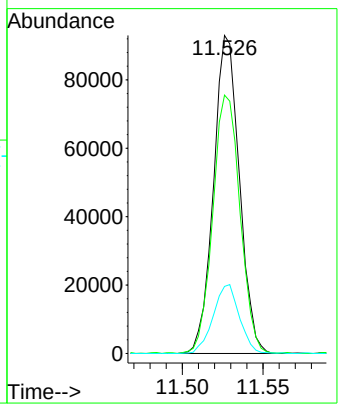





#65
tert-Butylbenzene
Concen: 1.053 ppbv
RT: 11.526 min Scan# 35
Delta R.T. -0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:119 Resp: 103520

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 85.9 | 66.0 | 99.0 |
| 134 | 22.1 | 16.7 | 25.1 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
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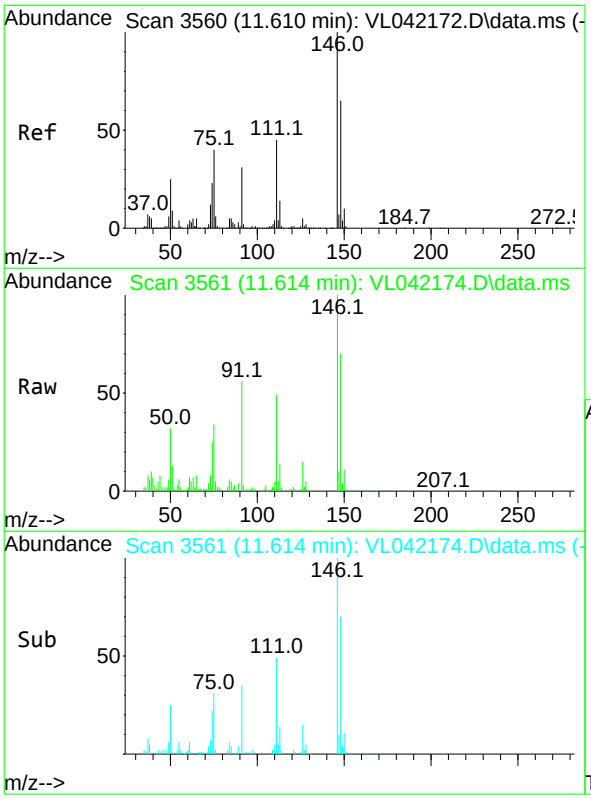
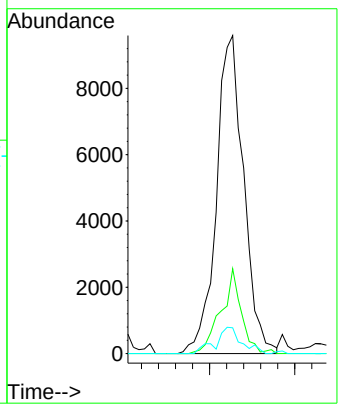
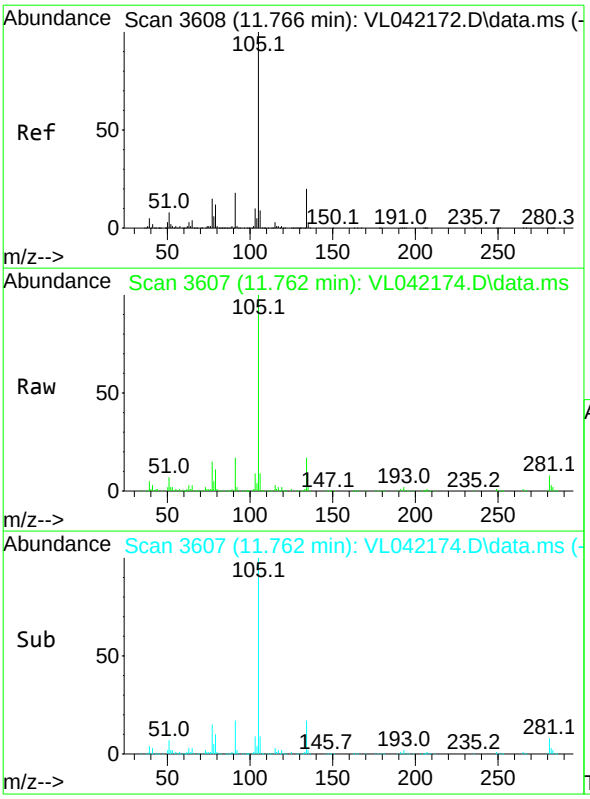



#66
Benzyl Chloride
Concen: 1.022 ppbv
RT: 11.614 min Scan# 3561
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 91 Resp: 10660

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 20.0 | 13.8 | 20.6 |
| 128 | 8.0 | 4.5 | 6.7# |

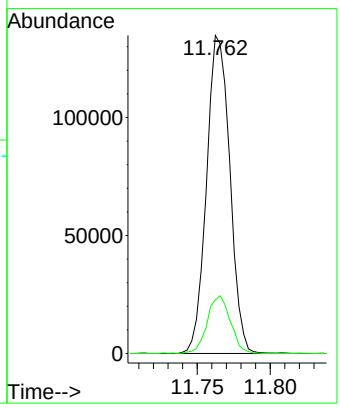





#67
sec-Butylbenzene
Concen: 1.095 ppbv
RT: 11.762 min Scan# 36
Delta R.T. -0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:105 Resp: 149660

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 18.1 | 15.5 | 23.3 |




**Instrument :**
MSVOA_L
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VSTDICC001

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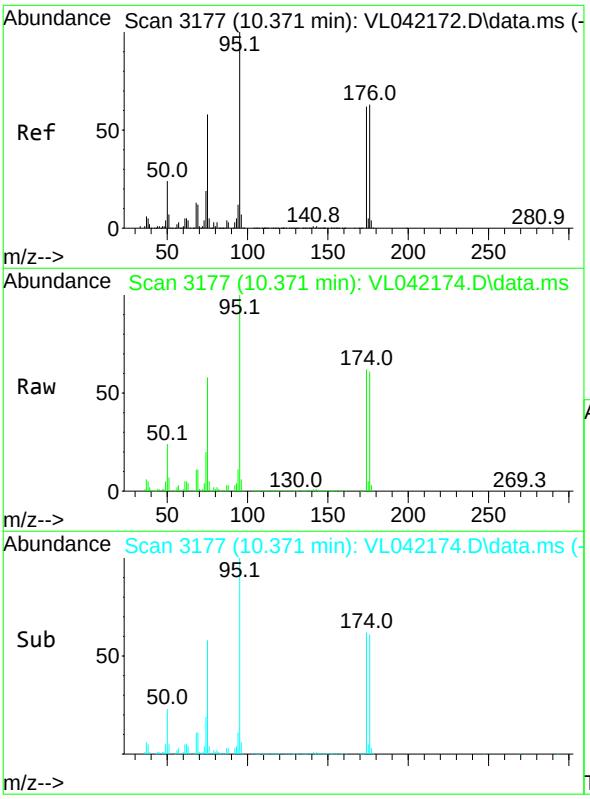
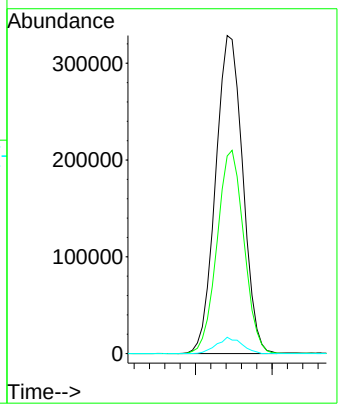
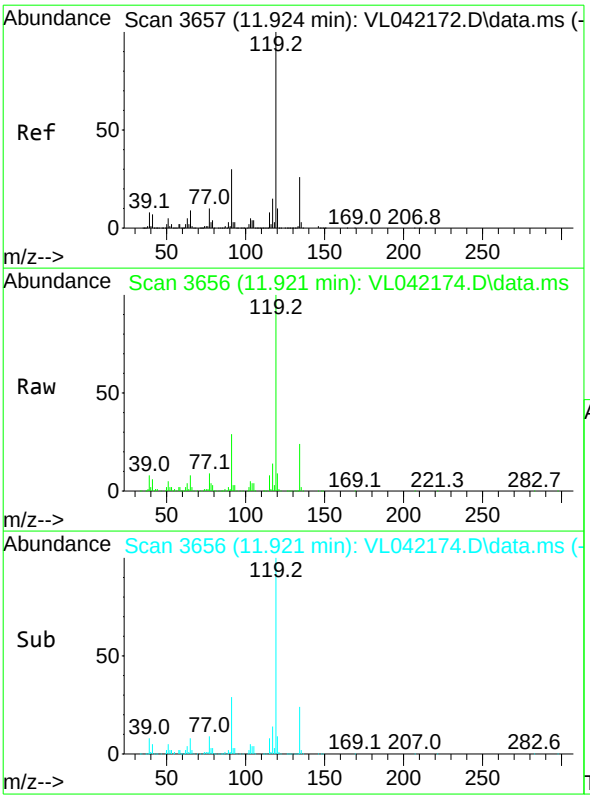



#68
1-Bromo-4-Fluorobenzene
Concen: 9.861 ppbv
RT: 10.371 min Scan# 3177
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 95 Resp: 404753

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 63.4 | 50.6 | 76.0 |
| 175 | 4.7 | 3.8 | 5.6 |






#69
p-Isopropyltoluene
Concen: 1.084 ppbv
RT: 11.921 min Scan# 36
Delta R.T. -0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:119 Resp: 127509

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 24.6 | 20.4 | 30.6 |
| 91 | 30.0 | 23.7 | 35.5 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

**Manual Integrations APPROVED**

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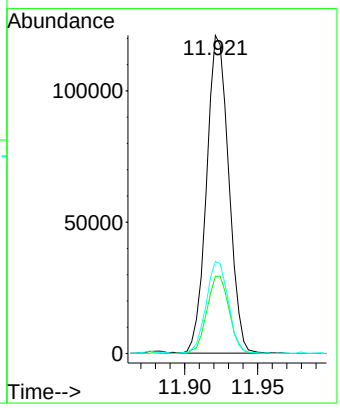
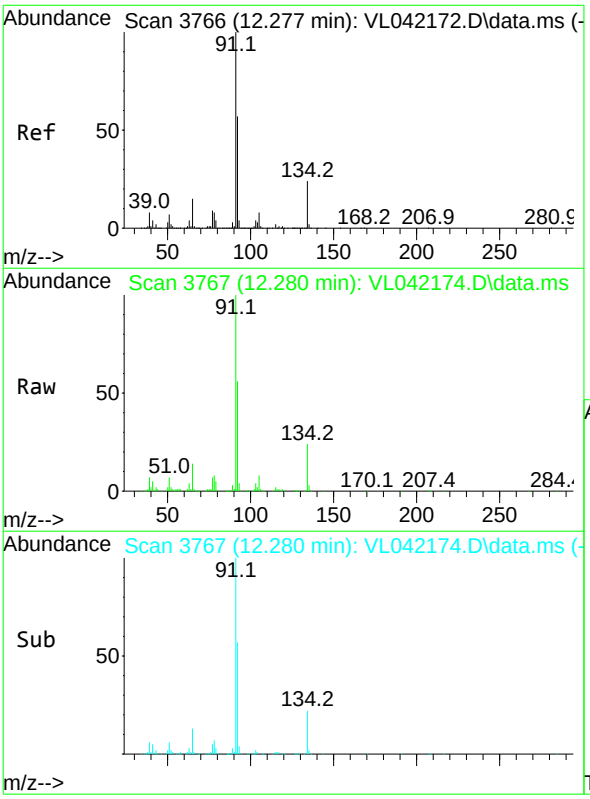
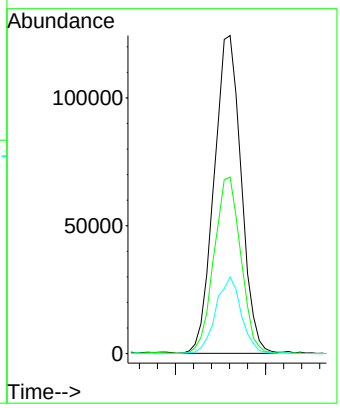


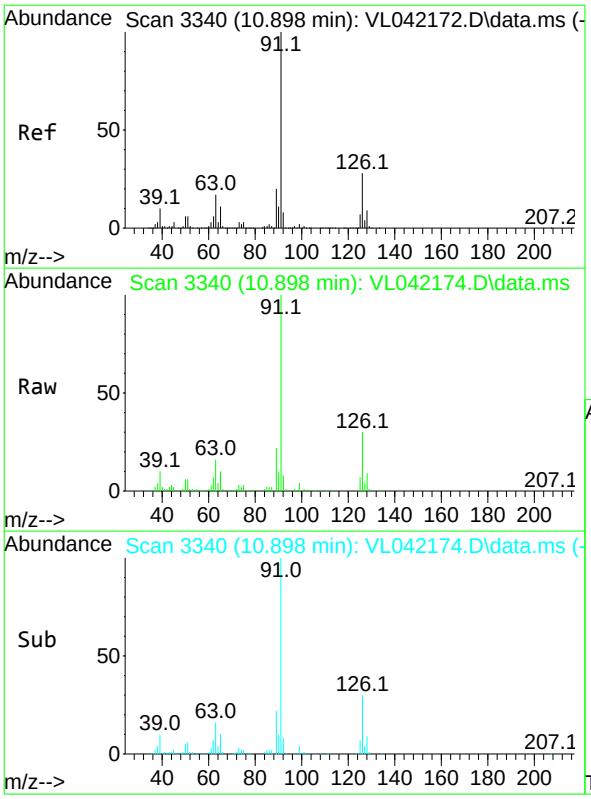




#70
n-Butylbenzene
Concen: 1.079 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 91 Resp: 129860

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 55.5 | 44.9 | 67.3 |
| 134 | 22.8 | 19.2 | 28.8 |

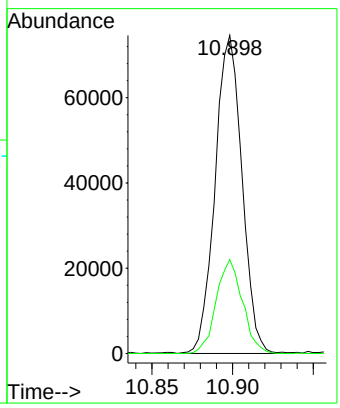





#71
2-Chlorotoluene
Concen: 1.047 ppbv
RT: 10.898 min Scan# 33
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 91 Resp: 86356

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 28.8 | 11.6 | 46.4 |

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VSTDICC001

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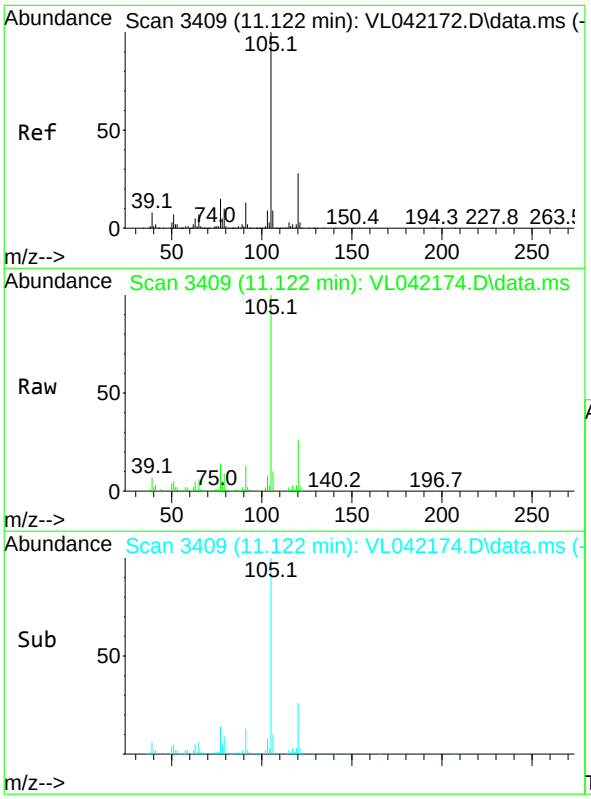
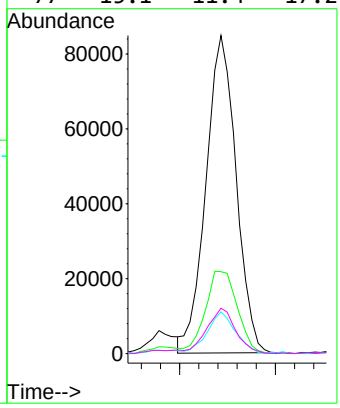
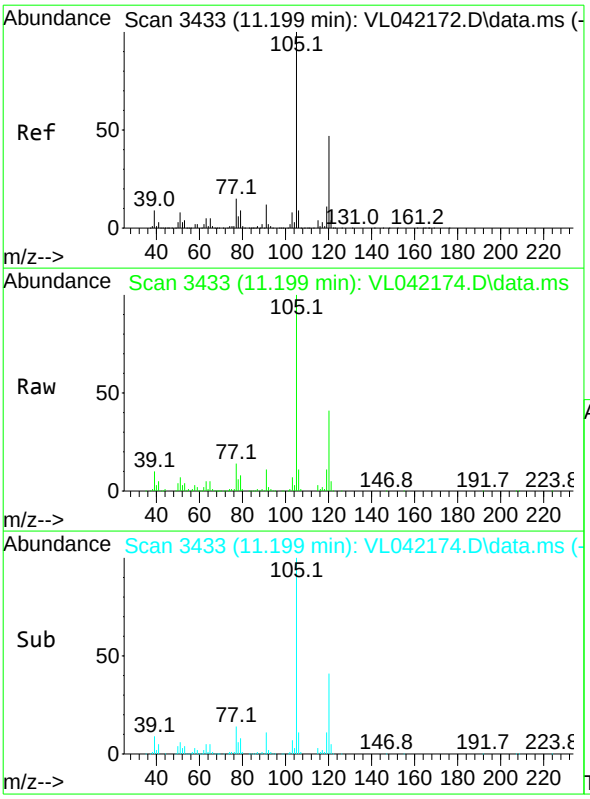



#72
4-Ethyltoluene
Concen: 1.050 ppbv
RT: 11.122 min Scan# 3409
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:105 Resp: 92912

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 29.7 | 23.4 | 35.0 |
| 91 | 13.5 | 10.3 | 15.5 |
| 77 | 15.1 | 11.4 | 17.2 |

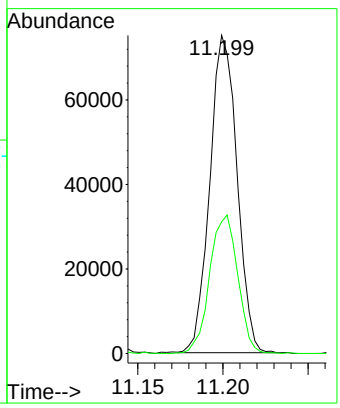





#73
1,3,5-Trimethylbenzene
Concen: 1.080 ppbv
RT: 11.199 min Scan# 34
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:105 Resp: 83497

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 41.3 | 37.4 | 56.0 |

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VSTDICC001

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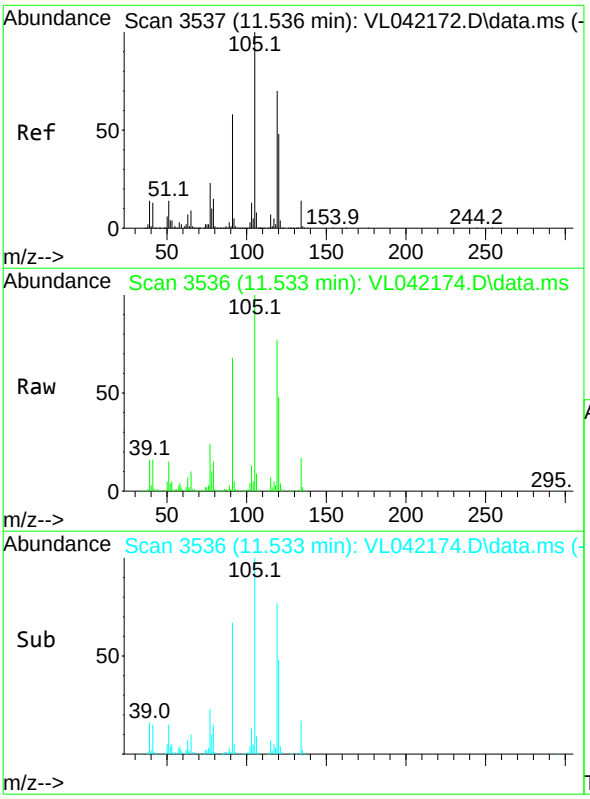
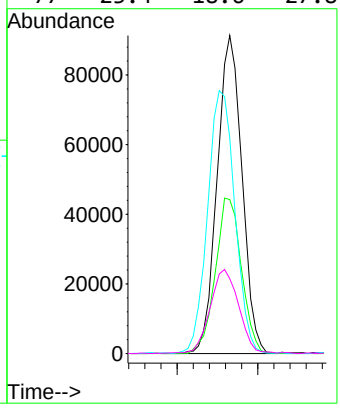
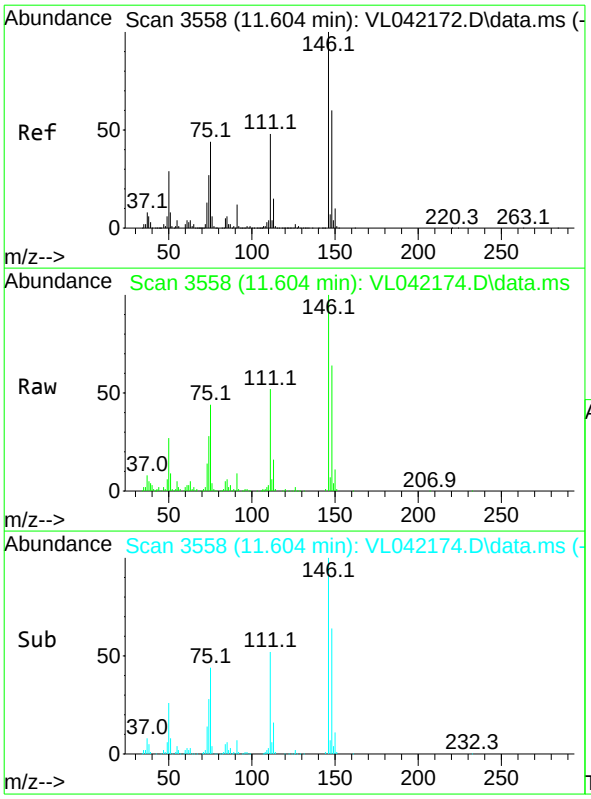



#74
1,2,4-Trimethylbenzene
Concen: 1.099 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. -0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:105 Resp: 97858

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.4 | 38.6 | 58.0 |
| 91 | 67.6 | 46.2 | 69.2 |
| 77 | 23.4 | 18.6 | 27.8 |

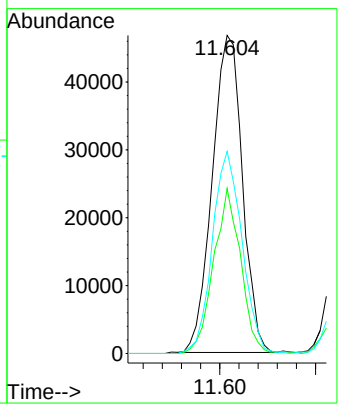





#75
1,3-Dichlorobenzene
Concen: 1.046 ppbv
RT: 11.604 min Scan# 35
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:146 Resp: 51096

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 46.8 | 23.8 | 71.2 |
| 148 | 62.6 | 31.9 | 95.9 |

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VSTDICC001

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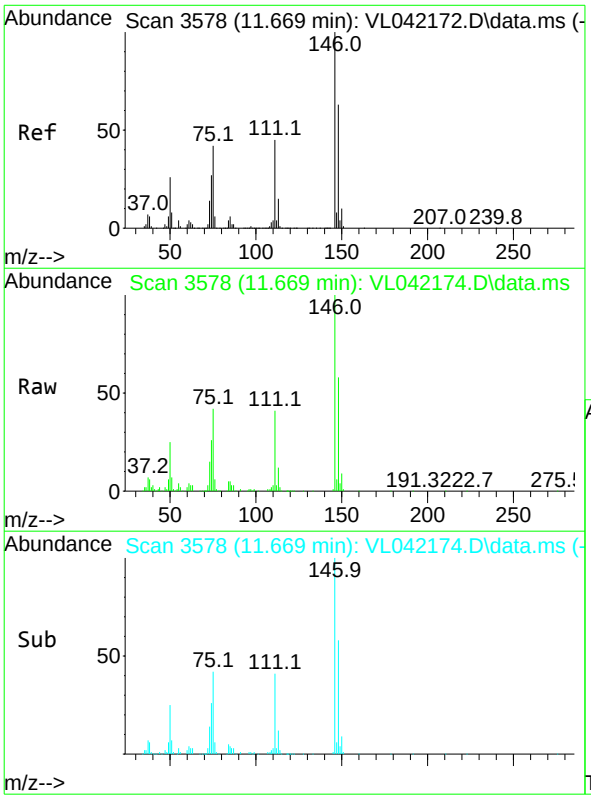
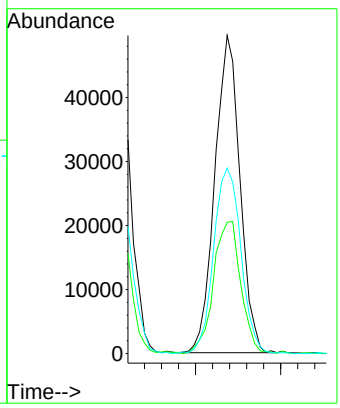
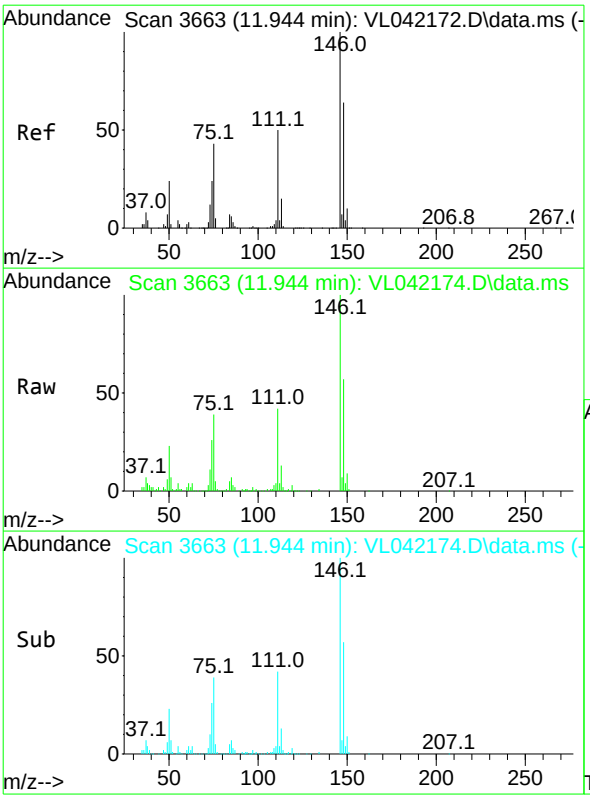



#76
1,4-Dichlorobenzene
Concen: 1.046 ppbv
RT: 11.669 min Scan# 3578
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:146 Resp: 50841

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 45.4 | 23.0 | 69.0 |
| 148 | 63.6 | 31.9 | 95.7 |

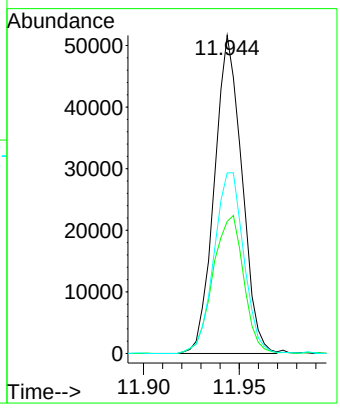





#77
1,2-Dichlorobenzene
Concen: 1.084 ppbv
RT: 11.944 min Scan# 36
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:146 Resp: 51523

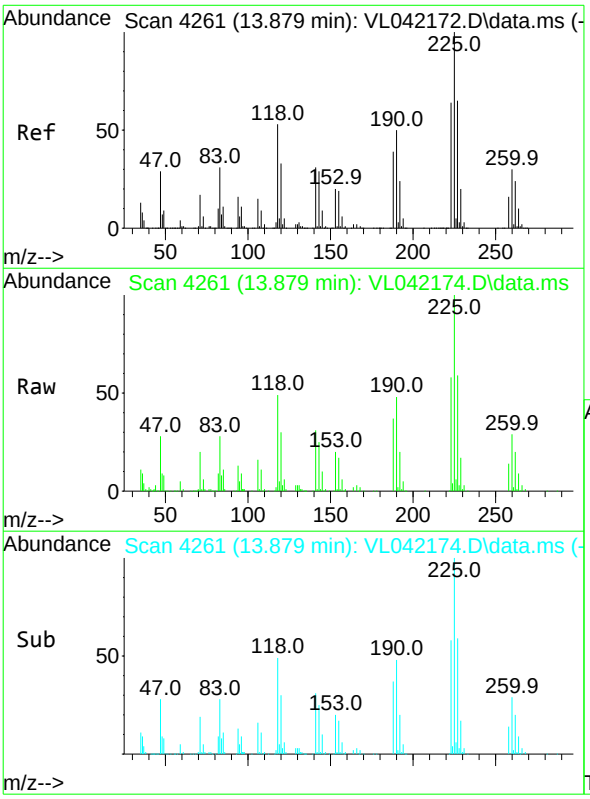
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 48.6 | 24.8 | 74.3 |
| 148 | 61.9 | 31.6 | 94.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

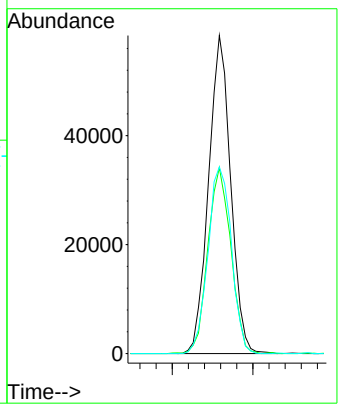
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

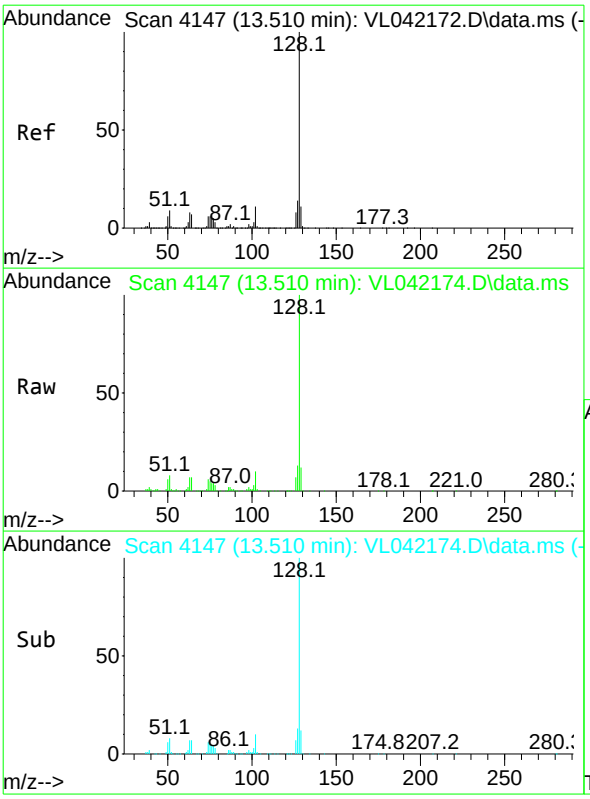



#78
Hexachloro-1,3-Butadiene
Concen: 1.149 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:225 Resp: 55611

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 60.8 | 50.6 | 76.0 |
| 227 | 62.3 | 51.2 | 76.8 |

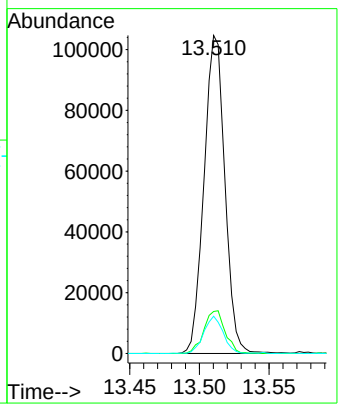





#79
Naphthalene
Concen: 1.120 ppbv
RT: 13.510 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:128 Resp: 109031

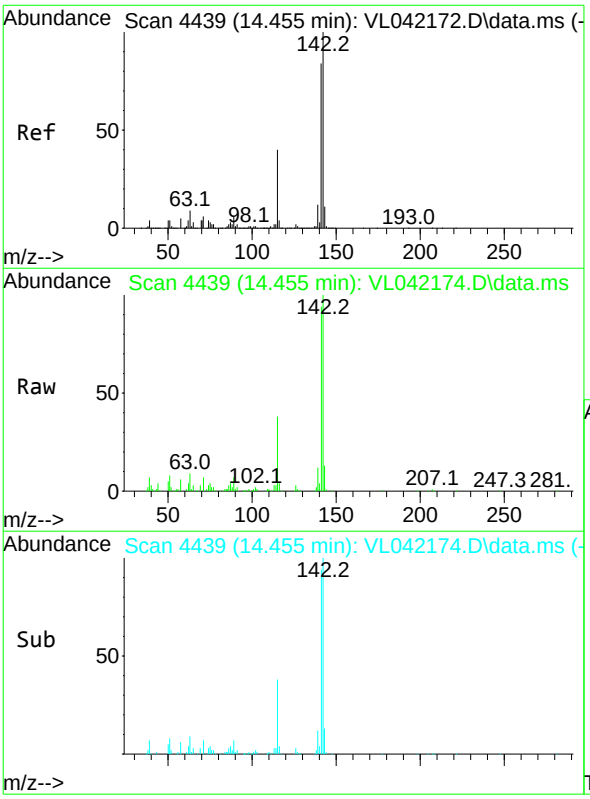
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.2 | 10.8 | 16.2 |
| 129 | 11.7 | 9.0 | 13.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

**Manual Integrations APPROVED**

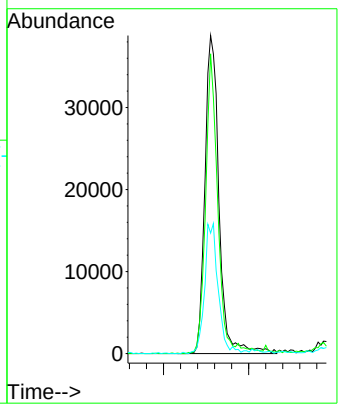
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

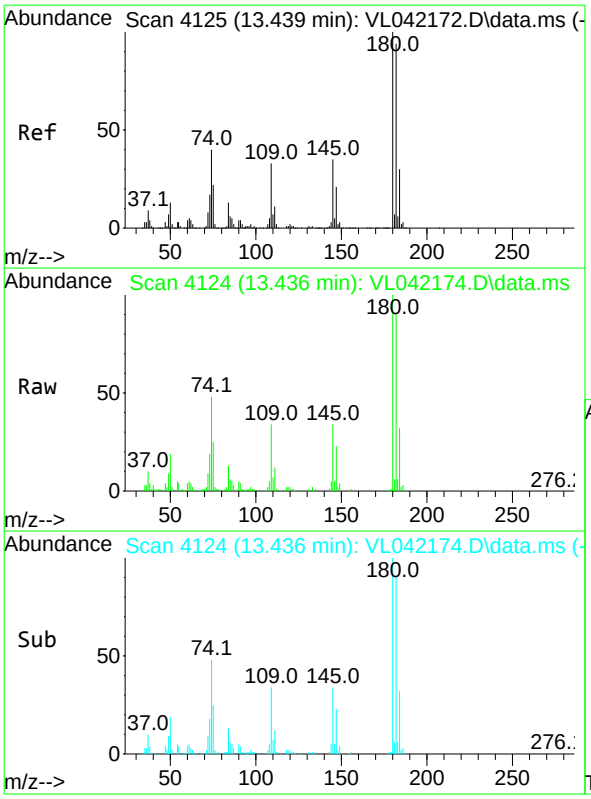



#80
Naphthalene,2-methyl-
Concen: 0.939 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:142 Resp: 44518

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 83.4 | 66.3 | 99.5 |
| 115 | 41.5 | 31.6 | 47.4 |

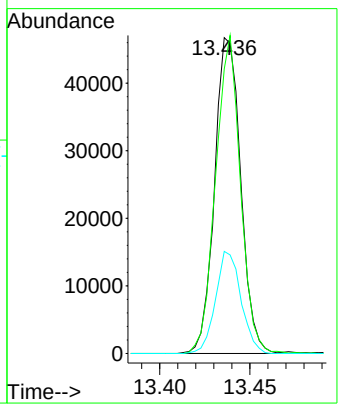





#81
1,2,4-Trichlorobenzene
Concen: 1.047 ppbv
RT: 13.436 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:180 Resp: 47040

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.7 | 75.1 | 112.7 |
| 184 | 31.4 | 24.4 | 36.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042175.D
Acq On : 27 Mar 2025 10:01
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 28 01:34:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) Bromochloromethane | 2.784 | 49 | 180502 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.952 | 114 | 523832 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.875 | 117 | 485078 | 10.000 | ppbv | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.370 | 95 | 403513 | 10.130 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 101.300% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.496 | 85 | 14455 | 0.542 | ppbv | | 95 |
| 3) Chlorodifluoromethane | 1.473 | 51 | 14637 | 0.538 | ppbv | # | 89 |
| 4) Chloromethane | 1.531 | 50 | 5956 | 0.547 | ppbv | | 94 |
| 5) Vinyl Chloride | 1.577 | 62 | 5732 | 0.516 | ppbv | | 92 |
| 6) Bromomethane | 1.664 | 94 | 2949 | 0.597 | ppbv | | 95 |
| 7) Chloroethane | 1.703 | 64 | 2582 | 0.591 | ppbv | # | 87 |
| 8) Dichlorotetrafluoroethane | 1.551 | 85 | 11783 | 0.519 | ppbv | | 98 |
| 9) Propene | 1.483 | 41 | 6622m | 0.540 | ppbv | | |
| 10) Heptane | 4.972 | 43 | 16673 | 0.502 | ppbv | | 89 |
| 11) Trichlorofluoromethane | 1.874 | 101 | 14099 | 0.544 | ppbv | | 92 |
| 12) 1,1,2-Trichlorotrifluo... | 2.136 | 101 | 11252 | 0.528 | ppbv | | 99 |
| 13) Ethanol | 1.722 | 45 | 997 | 1.038 | ppbv | # | 36 |
| 14) Bromoethene | 1.780 | 108 | 4770 | 0.584 | ppbv | # | 86 |
| 15) Acetone | 1.835 | 43 | 15331 | 0.607 | ppbv | # | 85 |
| 16) 1,3-Butadiene | 1.606 | 39 | 8594 | 0.757 | ppbv | | 82 |
| 17) tert-Butyl alcohol | 2.039 | 59 | 17467 | 0.556 | ppbv | | 97 |
| 18) 1,1-Dichloroethene | 2.030 | 96 | 5634 | 0.565 | ppbv | # | 92 |
| 19) Isopropyl Alcohol | 1.884 | 45 | 9171 | 0.644 | ppbv | # | 39 |
| 20) Methylene Chloride | 2.059 | 84 | 5634 | 0.599 | ppbv | # | 93 |
| 21) Allyl Chloride | 2.091 | 41 | 9632 | 0.541 | ppbv | | 89 |
| 22) trans-1,2-Dichloroethene | 2.334 | 96 | 6353 | 0.546 | ppbv | | 83 |
| 23) Vinyl Acetate | 2.457 | 43 | 6809 | 0.649 | ppbv | # | 91 |
| 24) 1,1-Dichloroethane | 2.405 | 63 | 11258 | 0.527 | ppbv | | 97 |
| 25) Ethyl Acetate | 2.836 | 43 | 36258 | 0.553 | ppbv | | 98 |
| 26) Hexane | 2.823 | 57 | 13605 | 0.538 | ppbv | | 92 |
| 27) Carbon Disulfide | 2.146 | 76 | 14510 | 0.535 | ppbv | # | 1 |
| 28) Methyl tert-Butyl Ether | 2.437 | 73 | 8310 | 0.527 | ppbv | # | 89 |
| 29) Chloroform | 2.845 | 83 | 20149 | 0.544 | ppbv | | 98 |
| 30) Cyclohexane | 3.852 | 84 | 12063m | 0.549 | ppbv | | |
| 31) cis-1,2-Dichloroethene | 2.719 | 61 | 13601 | 0.529 | ppbv | | 92 |
| 32) 1,1,1-Trichloroethane | 3.360 | 97 | 20567 | 0.485 | ppbv | | 100 |
| 34) 2-Butanone | 2.557 | 43 | 19739 | 0.520 | ppbv | | 96 |
| 35) Carbon Tetrachloride | 3.755 | 117 | 18558 | 0.460 | ppbv | | 93 |
| 36) Benzene | 3.651 | 78 | 27488 | 0.529 | ppbv | # | 87 |
| 37) 1,2-Dichloroethane | 3.214 | 62 | 16062 | 0.540 | ppbv | | 100 |
| 38) Trichloroethene | 4.538 | 130 | 11460m | 0.529 | ppbv | | |
| 39) 1,2-Dichloropropane | 4.308 | 63 | 10123 | 0.535 | ppbv | | 92 |
| 40) 1,4-Dioxane | 4.593 | 88 | 6121m | 0.624 | ppbv | | |
| 41) Tetrahydrofuran | 3.059 | 42 | 11509m | 0.533 | ppbv | | |
| 42) Bromodichloromethane | 4.483 | 83 | 20374 | 0.497 | ppbv | # | 98 |
| 43) Methyl Methacrylate | 4.875 | 69 | 11583m | 0.528 | ppbv | | |
| 44) 2,2,4-Trimethylpentane | 4.632 | 57 | 46646 | 0.532 | ppbv | | 95 |
| 45) t-1,3-Dichloropropene | 6.406 | 75 | 12404 | 0.526 | ppbv | # | 79 |

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042175.D
Acq On : 27 Mar 2025 10:01
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 28 01:34:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.593 | 75 | 14374m | 0.497 | ppbv | | |
| 47) 1,1,2-Trichloroethane | 6.574 | 97 | 10972m | 0.549 | ppbv | | |
| 48) Dibromochloromethane | 7.380 | 129 | 17042 | 0.503 | ppbv | | 99 |
| 49) Bromoform | 9.480 | 173 | 14828 | 0.487 | ppbv | | 98 |
| 50) 4-Methyl-2-Pentanone | 5.758 | 43 | 33674 | 0.559 | ppbv | | 97 |
| 51) 2-Hexanone | 7.438 | 43 | 26154 | 0.523 | ppbv | # | 100 |
| 52) Tetrachloroethene | 8.218 | 164 | 10502 | 0.510 | ppbv | | 94 |
| 53) Toluene | 6.923 | 91 | 32444 | 0.527 | ppbv | | 98 |
| 54) 1,2-Dibromoethane | 7.648 | 107 | 14220 | 0.510 | ppbv | | 99 |
| 56) 1,1,1,2-Tetrachloroethane | 8.920 | 131 | 13959 | 0.523 | ppbv | # | 1 |
| 57) Chlorobenzene | 8.914 | 112 | 24826 | 0.540 | ppbv | # | 91 |
| 58) Ethyl Benzene | 9.348 | 91 | 44862 | 0.521 | ppbv | | 96 |
| 59) m/p-Xylene | 9.542 | 91 | 73028m | 1.060 | ppbv | | |
| 60) o-Xylene | 9.959 | 91 | 36879 | 0.535 | ppbv | | 98 |
| 61) Styrene | 9.866 | 104 | 17198 | 0.504 | ppbv | | 96 |
| 62) Isopropylbenzene | 10.536 | 105 | 55531 | 0.538 | ppbv | | 99 |
| 63) 1,1,2,2-Tetrachloroethane | 9.959 | 83 | 21989 | 0.525 | ppbv | | 96 |
| 64) n-propylbenzene | 10.985 | 120 | 14030 | 0.528 | ppbv | | 95 |
| 65) tert-Butylbenzene | 11.526 | 119 | 53115 | 0.557 | ppbv | | 100 |
| 66) Benzyl Chloride | 11.613 | 91 | 5263 | 0.520 | ppbv | | 97 |
| 67) sec-Butylbenzene | 11.762 | 105 | 72879 | 0.550 | ppbv | | 98 |
| 69) p-Isopropyltoluene | 11.921 | 119 | 61933 | 0.542 | ppbv | | 100 |
| 70) n-Butylbenzene | 12.277 | 91 | 61507 | 0.527 | ppbv | | 99 |
| 71) 2-Chlorotoluene | 10.895 | 91 | 41637 | 0.520 | ppbv | | 95 |
| 72) 4-Ethyltoluene | 11.121 | 105 | 44473 | 0.518 | ppbv | # | 94 |
| 73) 1,3,5-Trimethylbenzene | 11.199 | 105 | 39190 | 0.523 | ppbv | | 97 |
| 74) 1,2,4-Trimethylbenzene | 11.532 | 105 | 48370 | 0.560 | ppbv | | 97 |
| 75) 1,3-Dichlorobenzene | 11.600 | 146 | 25122 | 0.530 | ppbv | | 100 |
| 76) 1,4-Dichlorobenzene | 11.668 | 146 | 24991 | 0.530 | ppbv | | 97 |
| 77) 1,2-Dichlorobenzene | 11.943 | 146 | 24548 | 0.532 | ppbv | | 96 |
| 78) Hexachloro-1,3-Butadiene | 13.879 | 225 | 25636 | 0.546 | ppbv | | 99 |
| 79) Naphthalene | 13.510 | 128 | 47990 | 0.508 | ppbv | | 95 |
| 80) Naphthalene,2-methyl- | 14.458 | 142 | 17486 | 0.380 | ppbv | | 98 |
| 81) 1,2,4-Trichlorobenzene | 13.436 | 180 | 19924 | 0.457 | ppbv | | 97 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

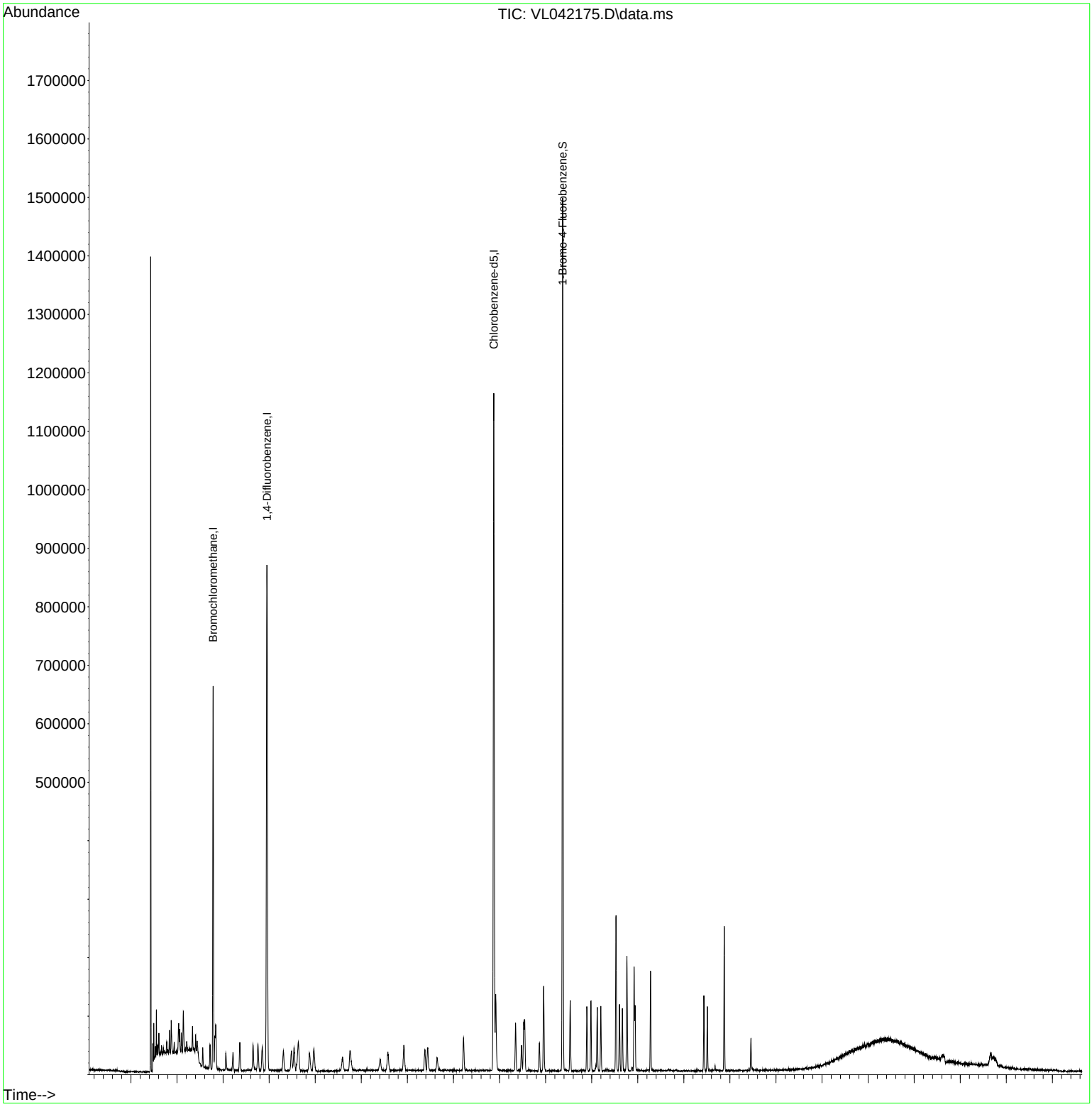
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042175.D
Acq On : 27 Mar 2025 10:01
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

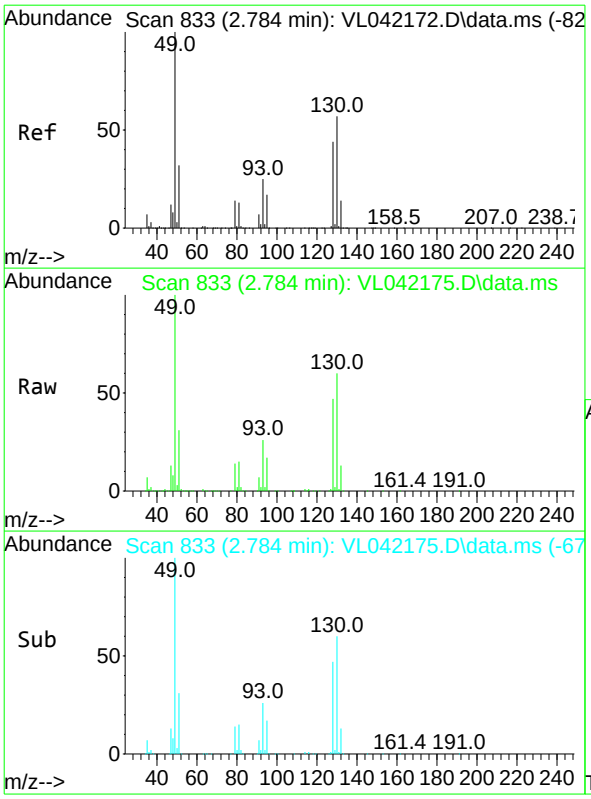
Quant Time: Mar 28 01:34:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

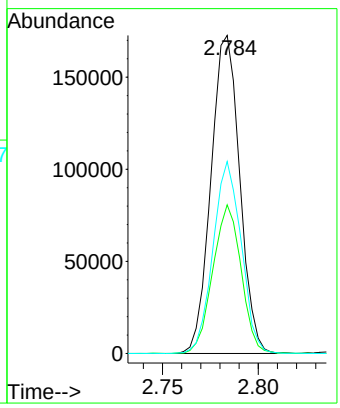





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 83
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 49 Resp: 180502

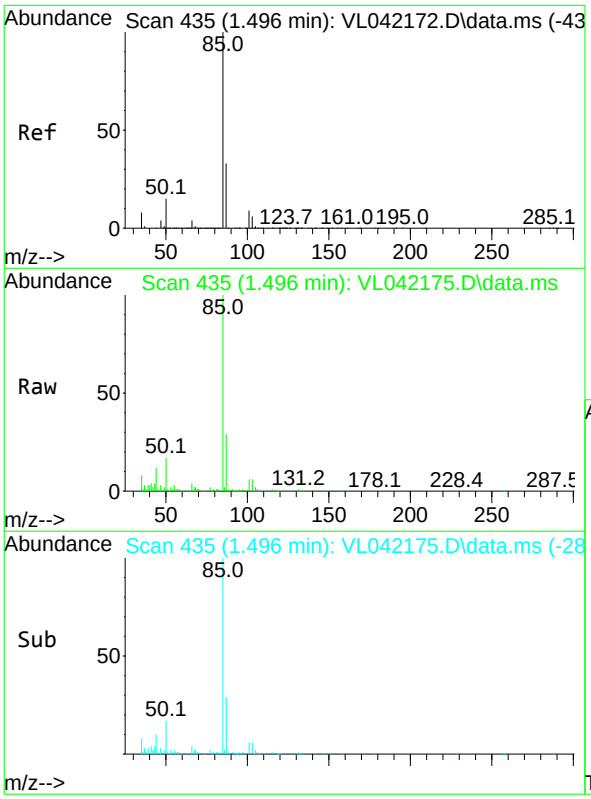
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 46.1 | 22.9 | 68.5 |
| 130 | 59.2 | 28.8 | 86.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
**APPROVED**

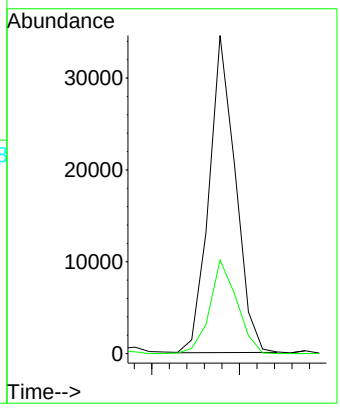
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

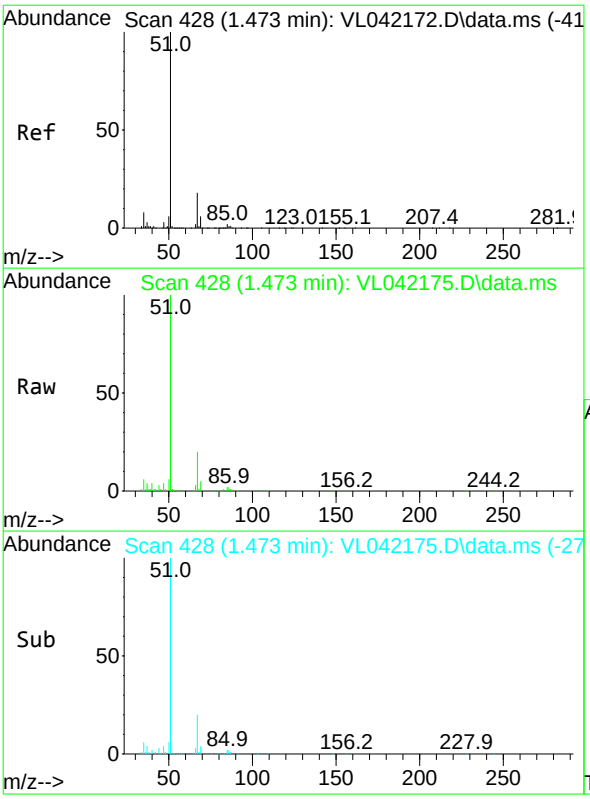



#2
Dichlorodifluoromethane
Concen: 0.542 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 85 Resp: 14455

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 29.5 | 26.1 | 39.1 |

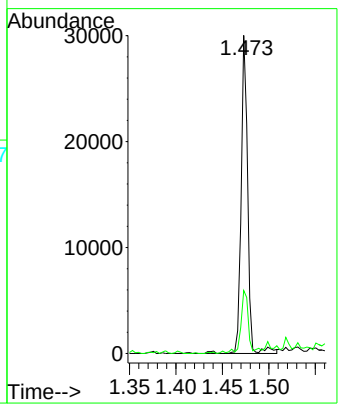





#3
Chlorodifluoromethane
Concen: 0.538 ppbv
RT: 1.473 min Scan# 42
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 51 Resp: 14637

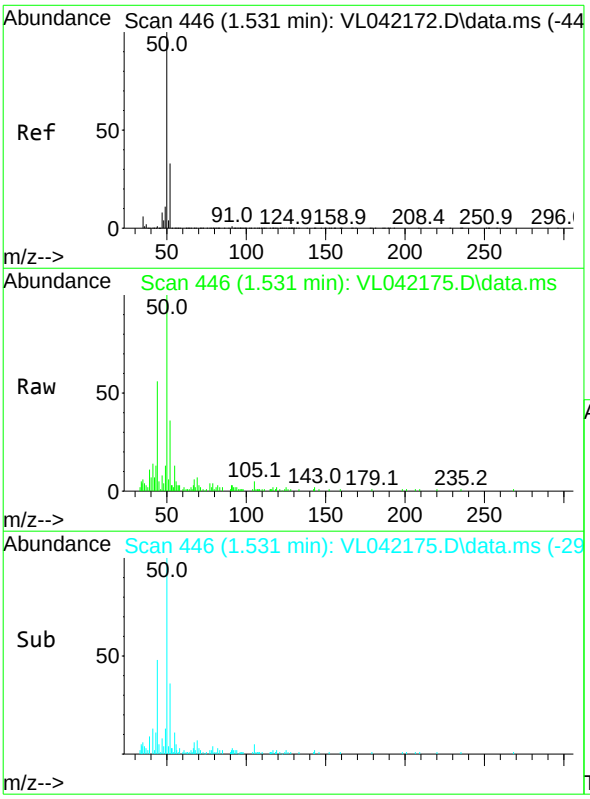
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 23.6 | 15.0 | 22.6# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
**APPROVED**

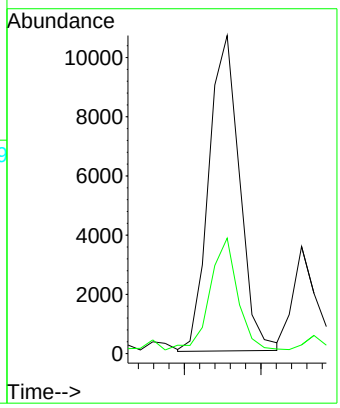
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

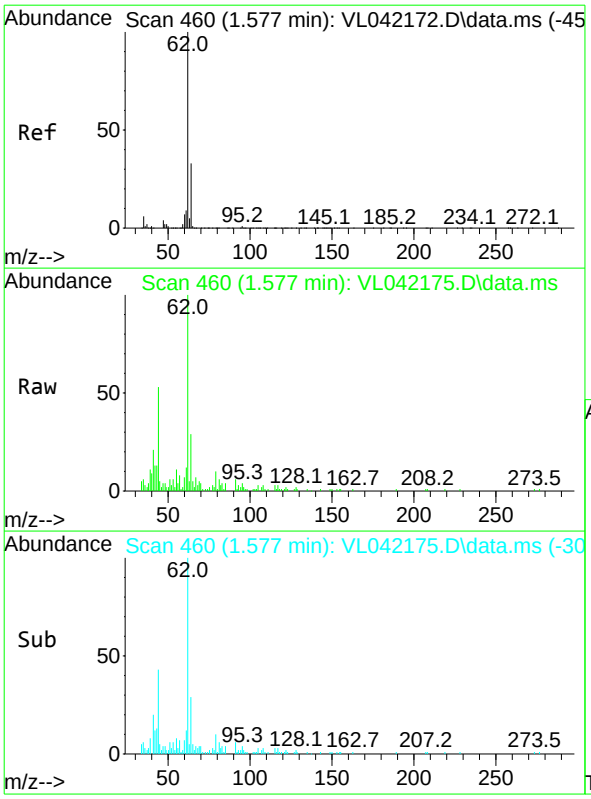



#4
Chloromethane
Concen: 0.547 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 50 Resp: 5956

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 36.1 | 26.1 | 39.1 |

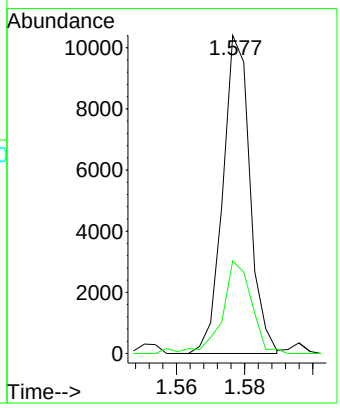





#5
Vinyl Chloride
Concen: 0.516 ppbv
RT: 1.577 min Scan# 46
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 62 Resp: 5732

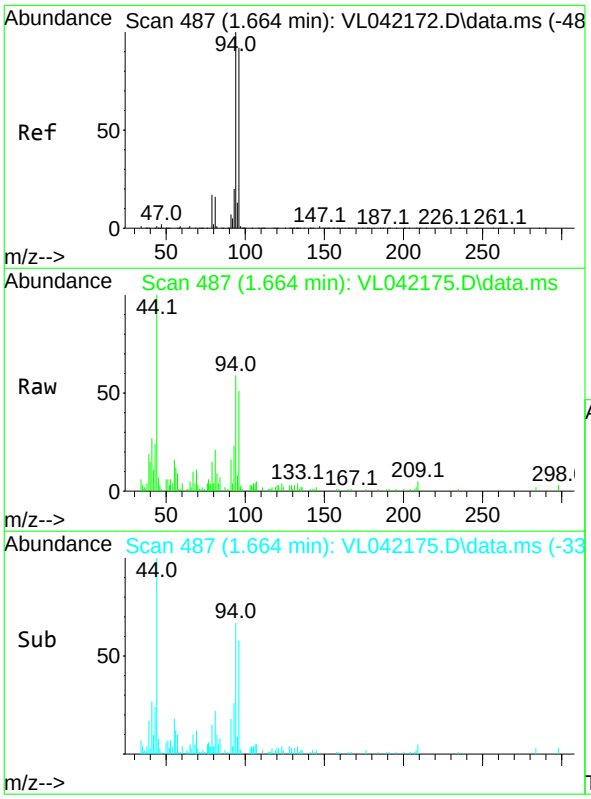
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 28.5 | 26.6 | 40.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
**APPROVED**

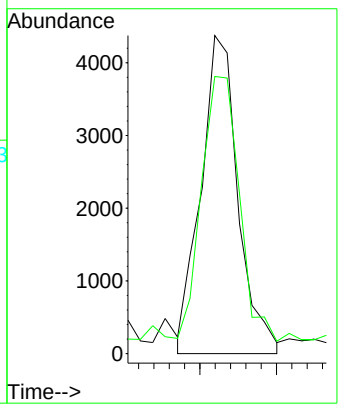
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

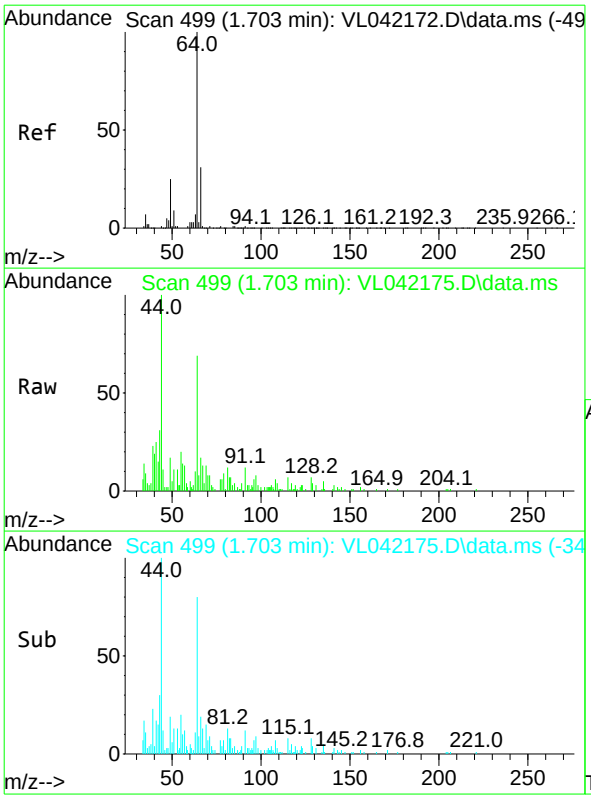



#6
Bromomethane
Concen: 0.597 ppbv
RT: 1.664 min Scan# 487
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 94 Resp: 2949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 86.2 | 73.1 | 109.7 |

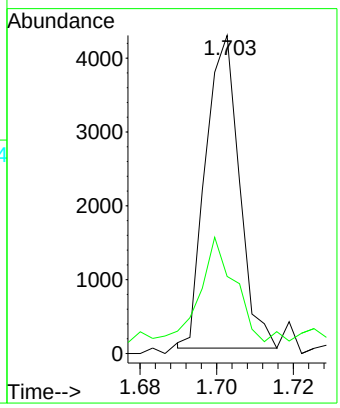





#7
Chloroethane
Concen: 0.591 ppbv
RT: 1.703 min Scan# 49
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 64 Resp: 2582

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 24.2 | 25.2 | 37.8# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
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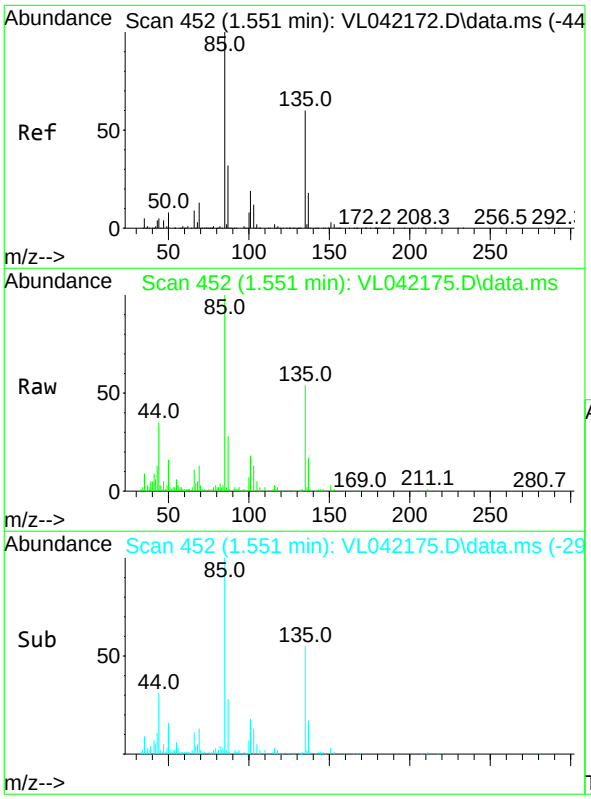
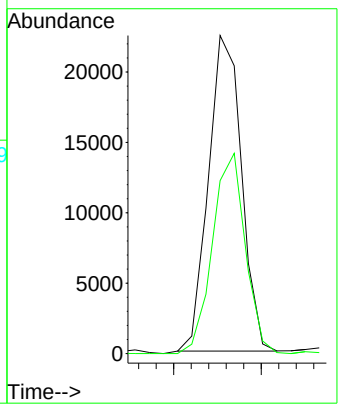
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

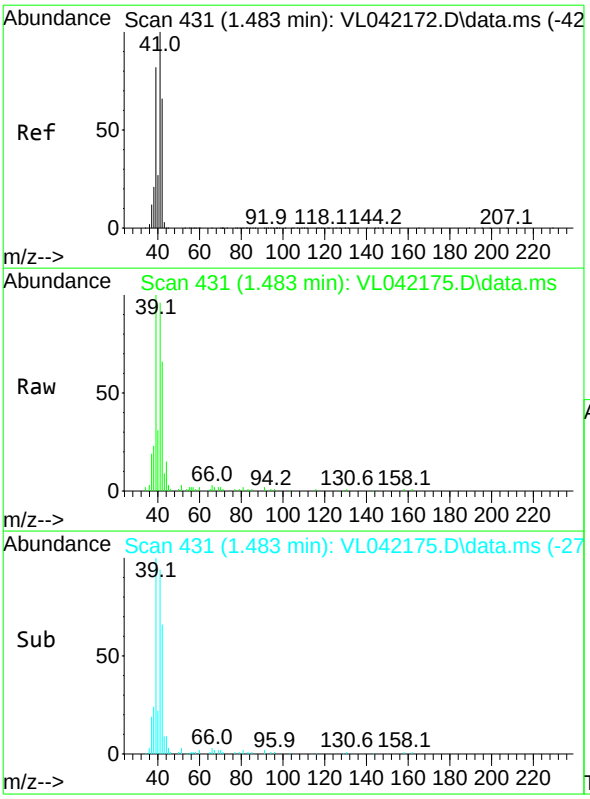



#8
Dichlorotetrafluoroethane
Concen: 0.519 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 85 Resp: 11783

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 63.7 | 52.4 | 78.6 |

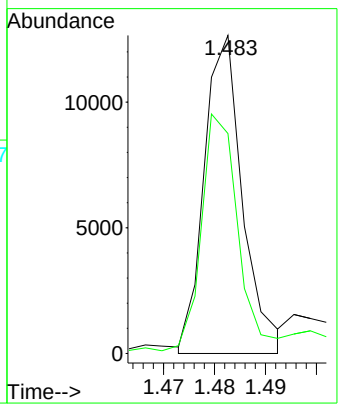





#9
Propene
Concen: 0.540 ppbv m
RT: 1.483 min Scan# 43
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 41 Resp: 6622

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 19.5 | 55.4 | 83.2# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

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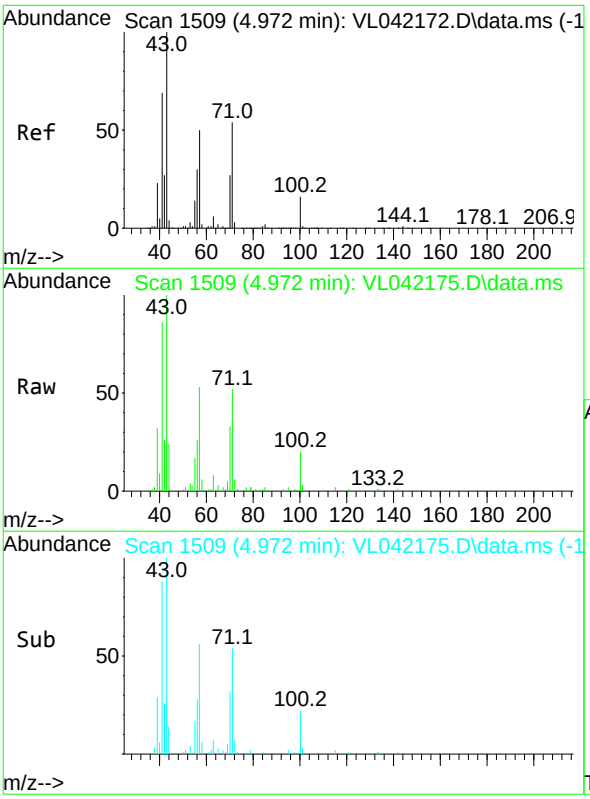
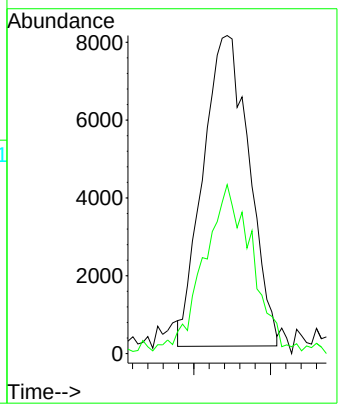
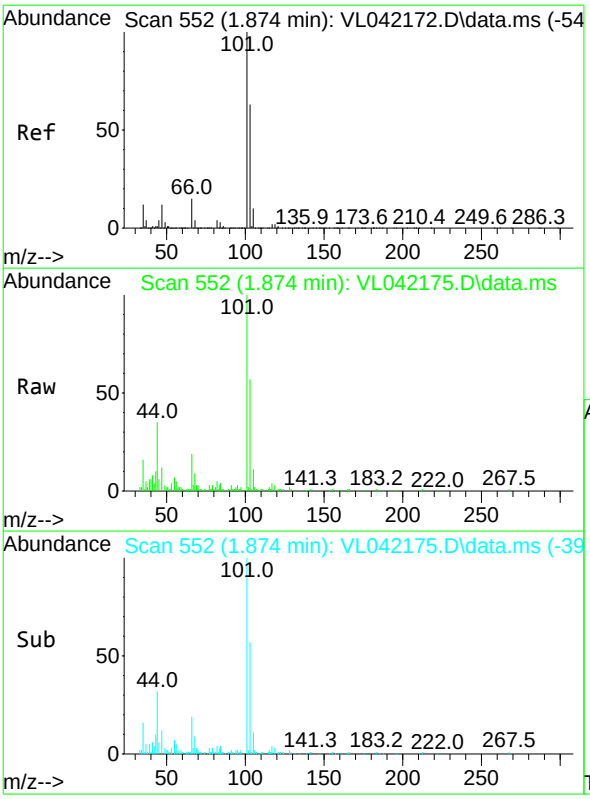



#10
Heptane
Concen: 0.502 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 43 Resp: 16673

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 57.0 | 39.4 | 59.2 |






#11
Trichlorofluoromethane
Concen: 0.544 ppbv
RT: 1.874 min Scan# 55
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:101 Resp: 14099

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 56.3 | 50.2 | 75.2 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
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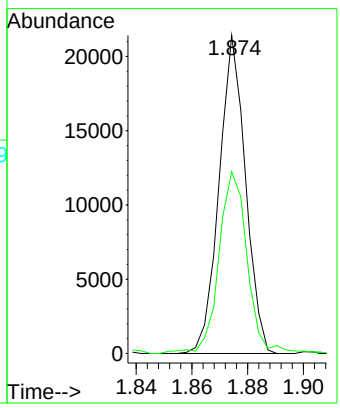
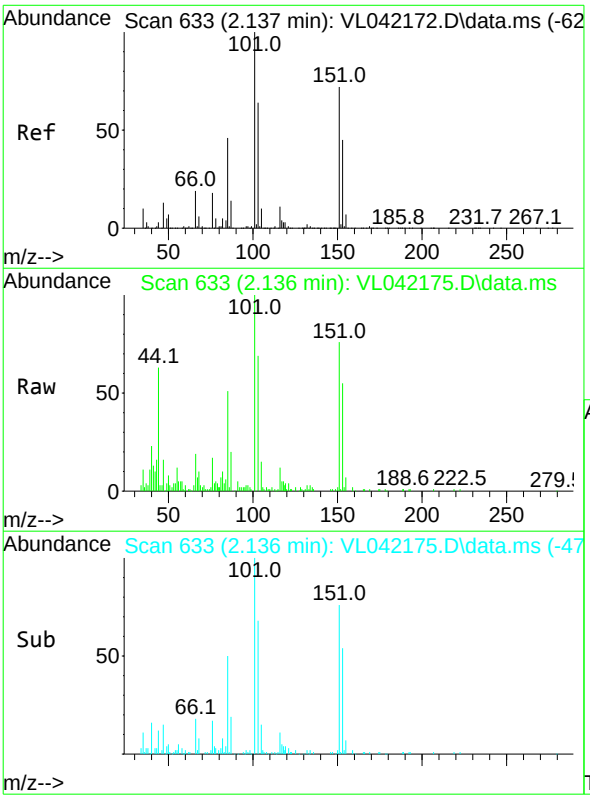
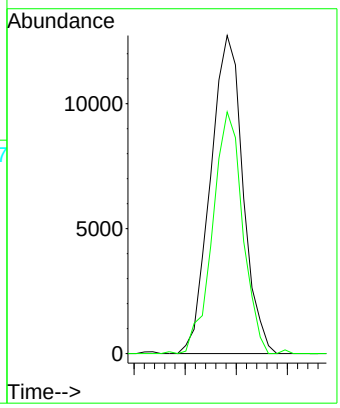


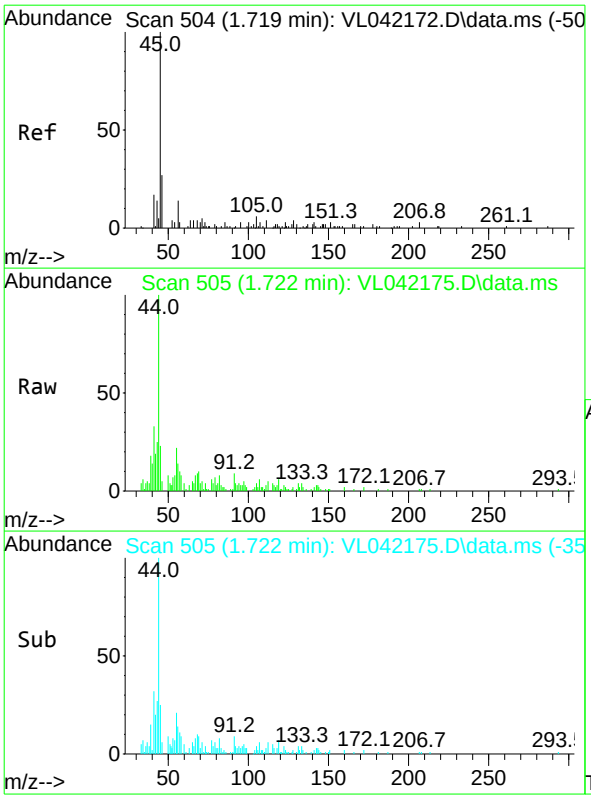




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.528 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:101 Resp: 11252

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 70.6 | 57.1 | 85.7 |

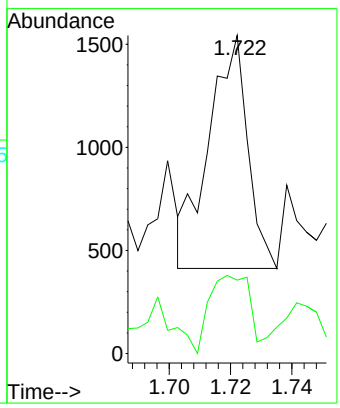





#13
Ethanol
Concen: 1.038 ppbv
RT: 1.722 min Scan# 50
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 45 Resp: 997

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 94.5 | 20.2 | 80.8# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
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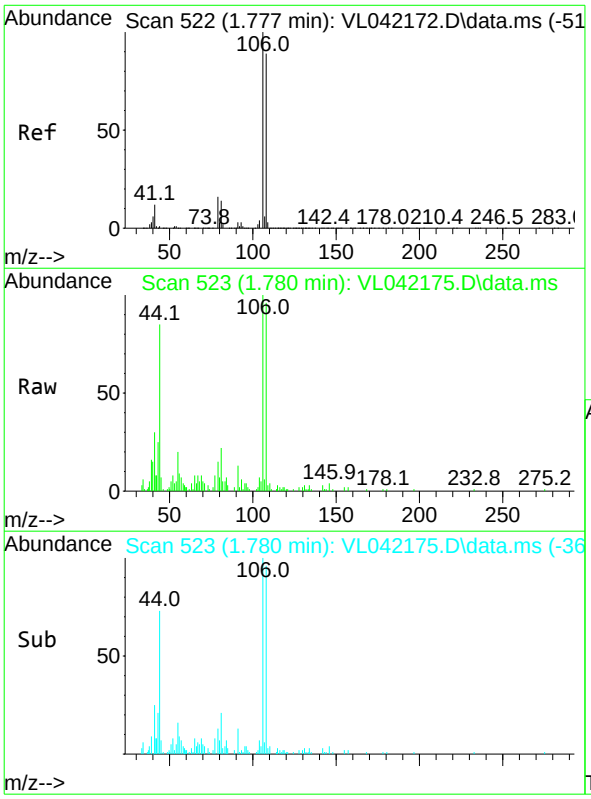
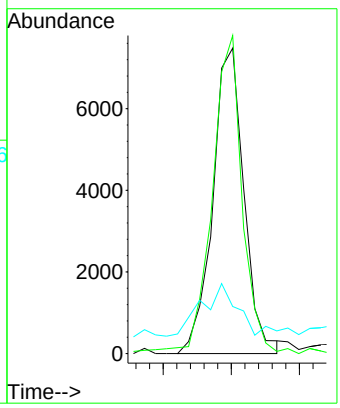
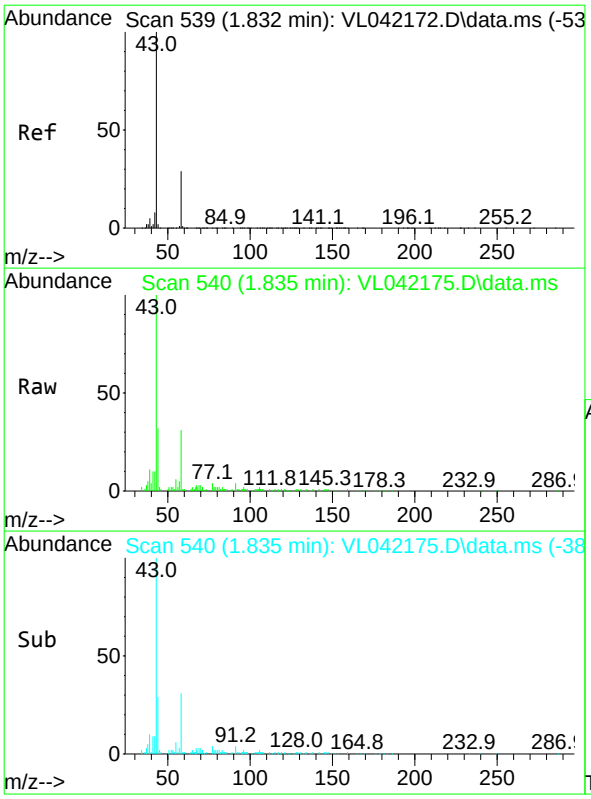



#14
Bromoethene
Concen: 0.584 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:108 Resp: 4770

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 106 | 101.3 | 86.8 | 130.2 |
| 79 | 42.6 | 15.0 | 22.6# |

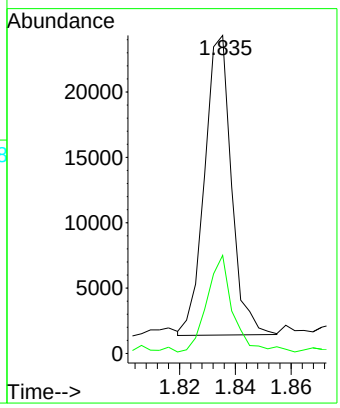





#15
Acetone
Concen: 0.607 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 43 Resp: 15331

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 37.1 | 23.2 | 34.8# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
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Reviewed By :Semsettin Yesilyurt 03/31/2025
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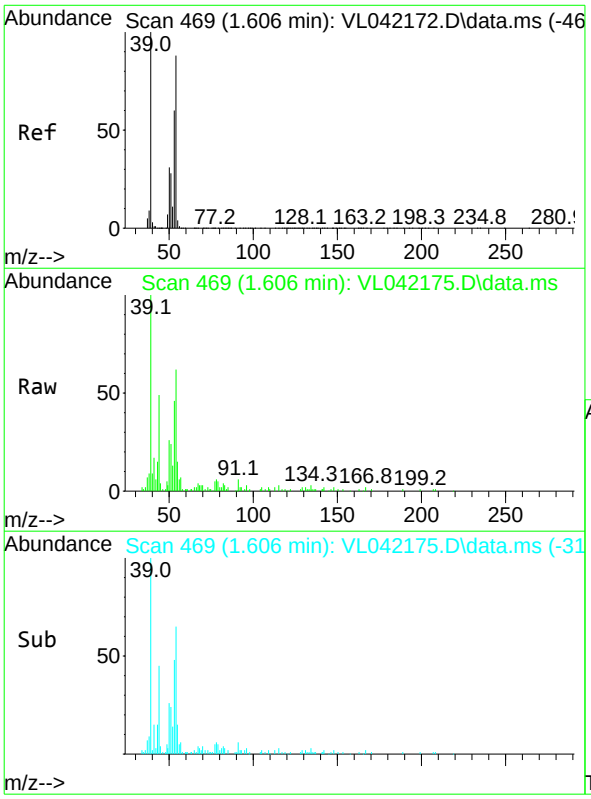
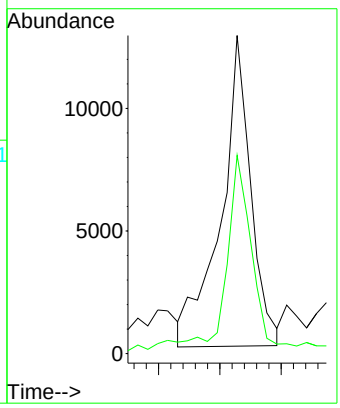
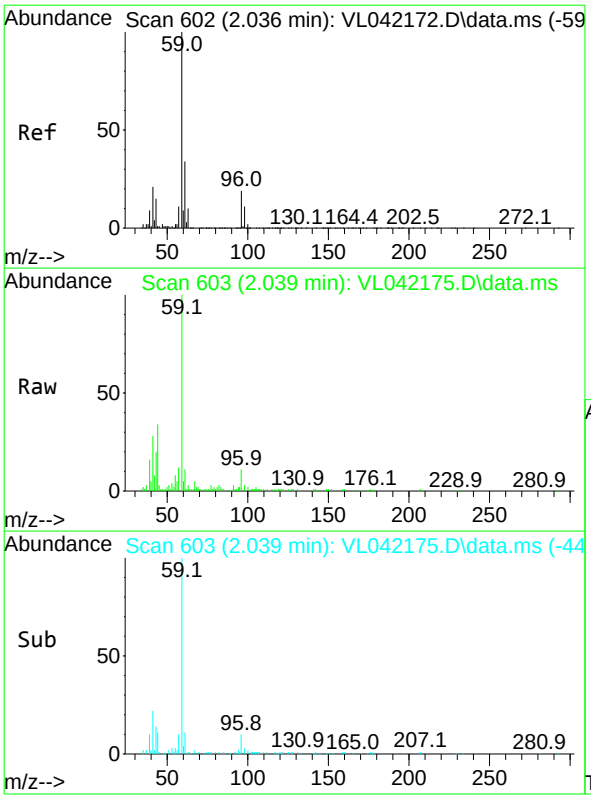



#16
1,3-Butadiene
Concen: 0.757 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 39 Resp: 8594

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 60.7 | 60.7 | 91.1 |

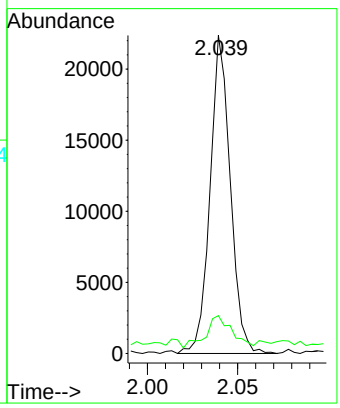





#17
tert-Butyl alcohol
Concen: 0.556 ppbv
RT: 2.039 min Scan# 60
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 59 Resp: 17467

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 12.1 | 8.9 | 13.3 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
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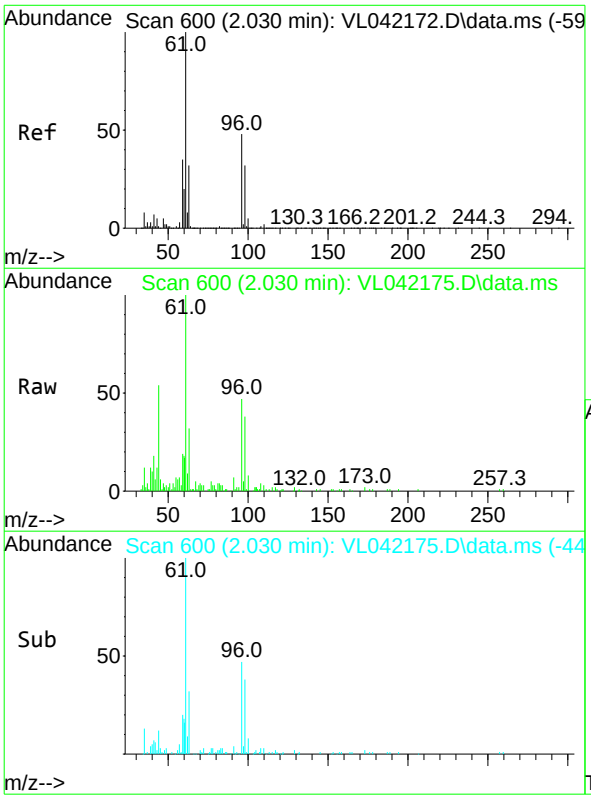
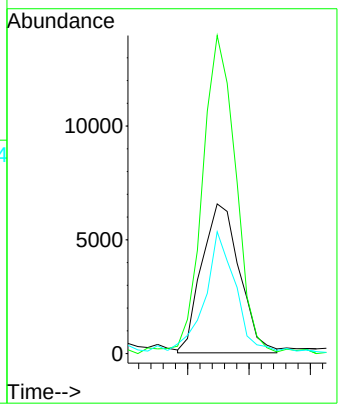
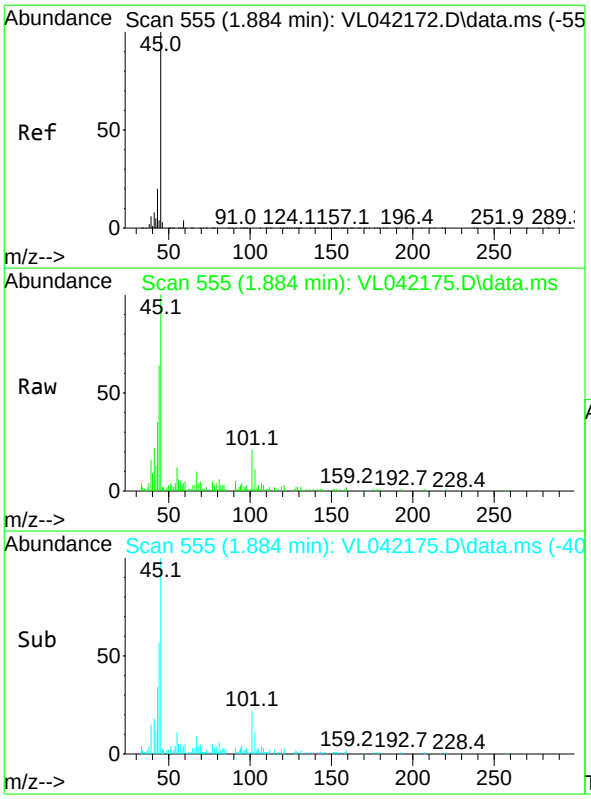



#18
1,1-Dichloroethene
Concen: 0.565 ppbv
RT: 2.030 min Scan# 600
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 96 Resp: 5634

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 216.6 | 167.6 | 251.4 |
| 98 | 81.2 | 53.5 | 80.3# |

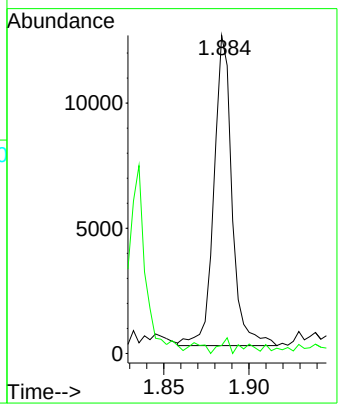





#19
Isopropyl Alcohol
Concen: 0.644 ppbv
RT: 1.884 min Scan# 55
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 45 Resp: 9171

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 5.5 | 36.9 | 55.3# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
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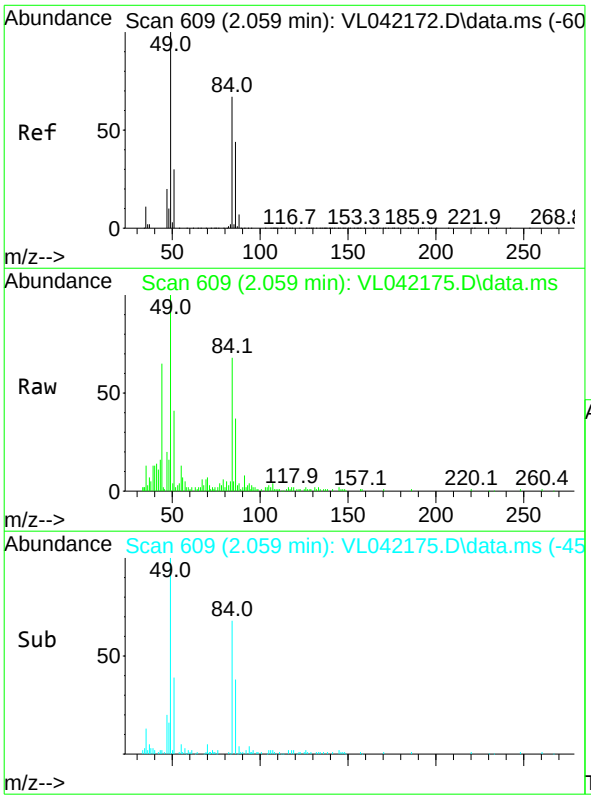
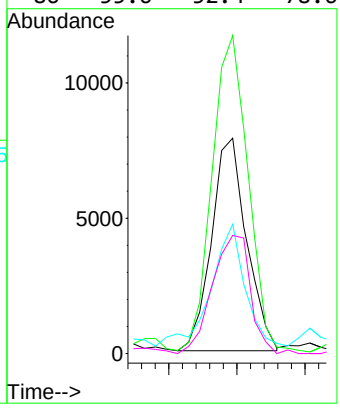
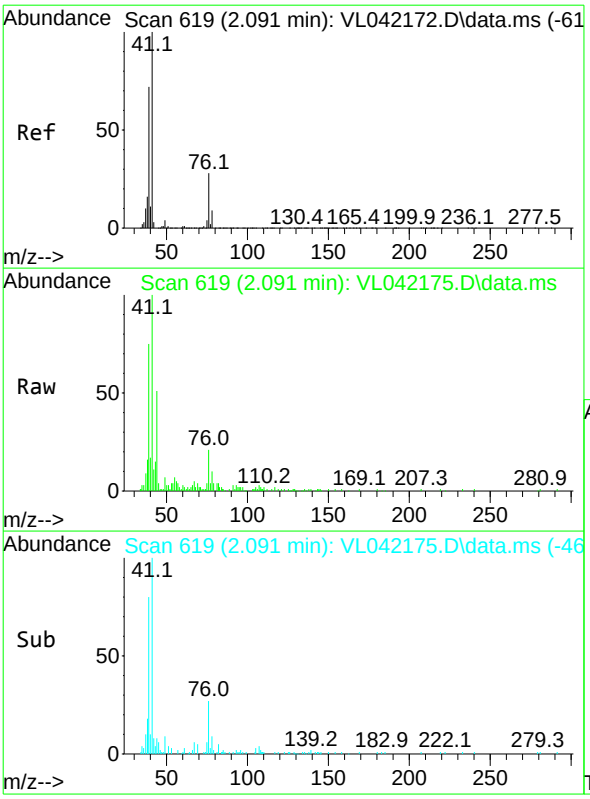



#20
Methylene Chloride
Concen: 0.599 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 84 Resp: 5634

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 148.1 | 120.2 | 180.4 |
| 51 | 56.1 | 37.4 | 56.0# |
| 86 | 55.6 | 52.4 | 78.6 |

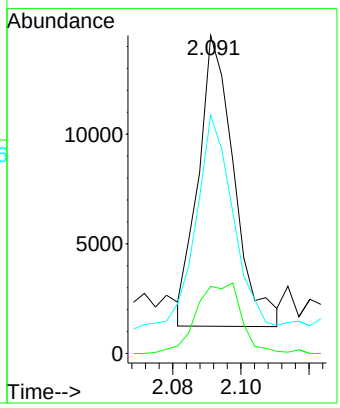





#21
Allyl Chloride
Concen: 0.541 ppbv
RT: 2.091 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 41 Resp: 9632

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 30.9 | 24.1 | 36.1 |
| 39 | 88.9 | 61.1 | 91.7 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
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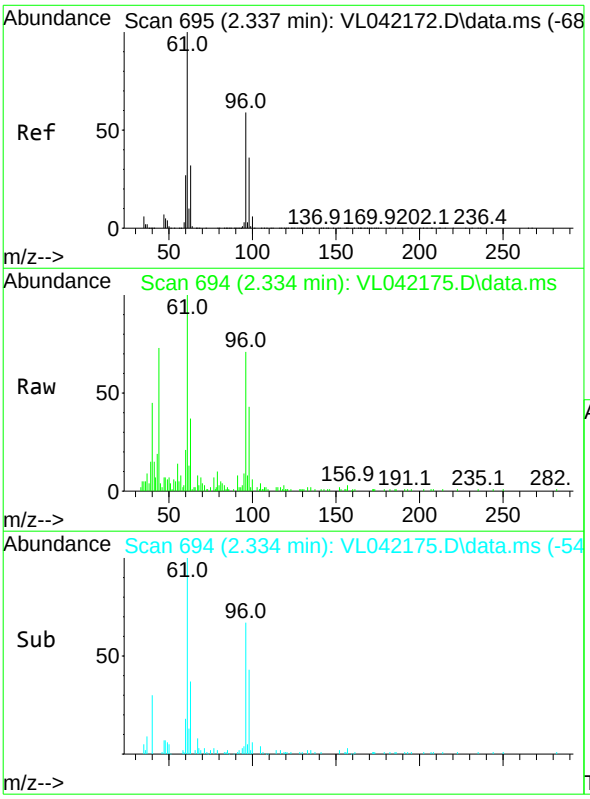
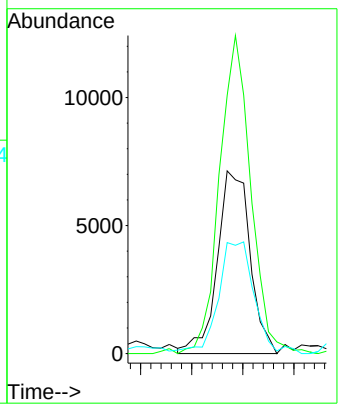
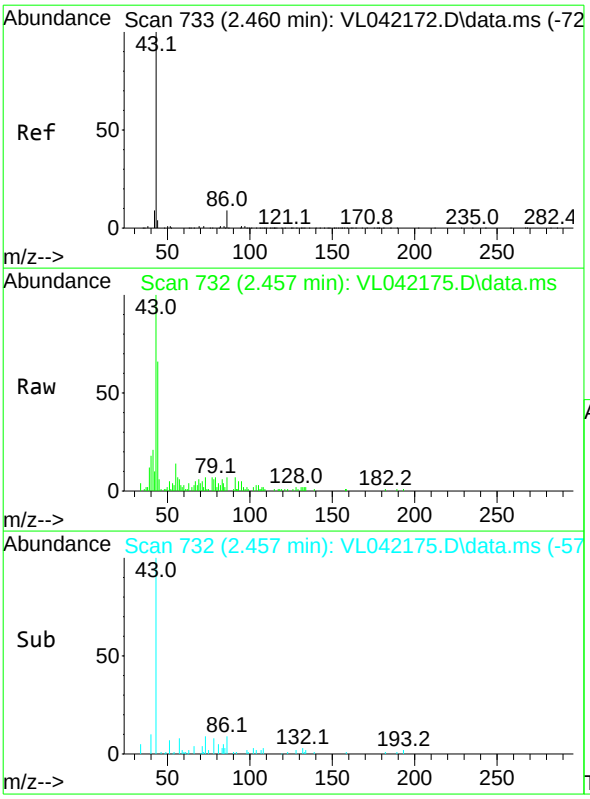



#22
trans-1,2-Dichloroethene
Concen: 0.546 ppbv
RT: 2.334 min Scan# 694
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 96 Resp: 6353

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 141.3 | 136.6 | 204.8 |
| 98 | 59.4 | 49.4 | 74.2 |

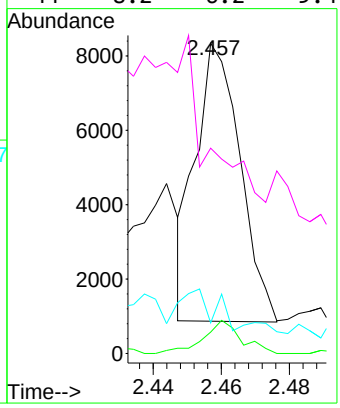





#23
Vinyl Acetate
Concen: 0.649 ppbv
RT: 2.457 min Scan# 73
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 43 Resp: 6809

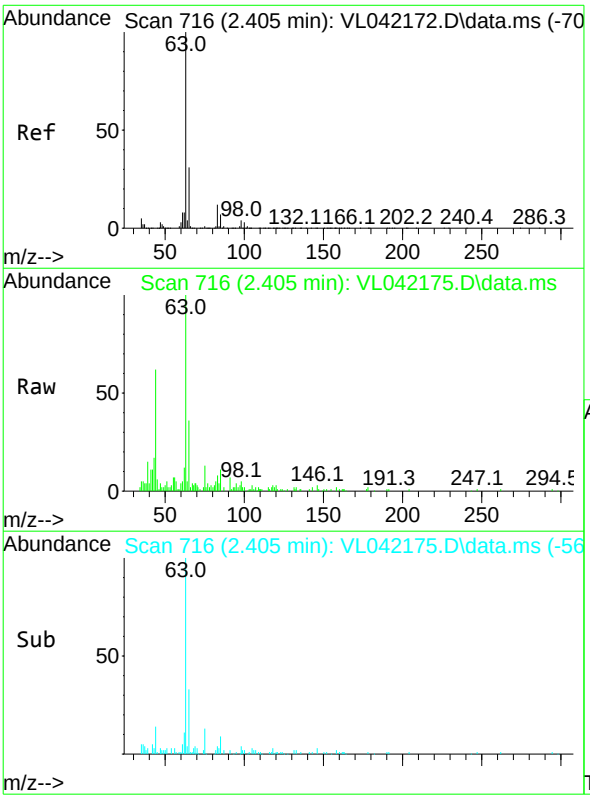
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 7.7 | 5.5 | 8.3 |
| 42 | 3.2 | 8.6 | 13.0# |
| 44 | 8.2 | 6.2 | 9.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
**APPROVED**

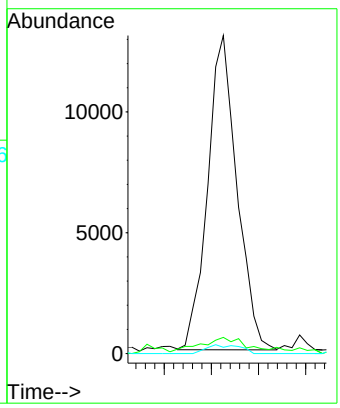
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

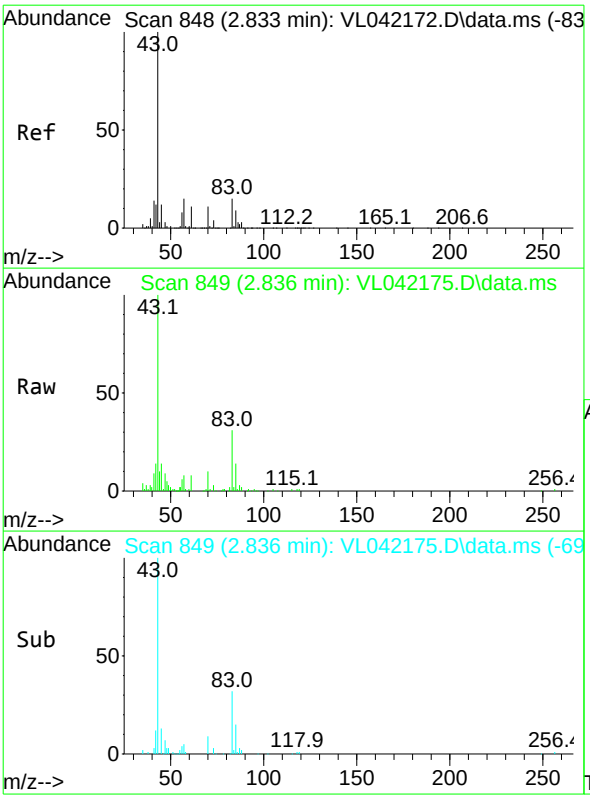



#24
1,1-Dichloroethane
Concen: 0.527 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 63 Resp: 11258

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 3.7 | 2.3 | 6.8 |
| 100 | 2.0 | 1.6 | 4.7 |

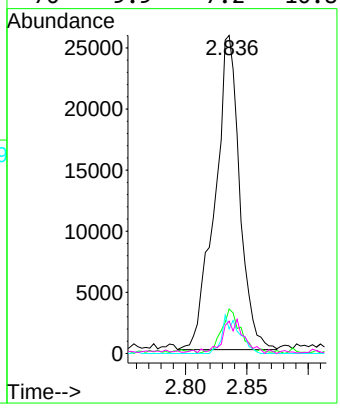





#25
Ethyl Acetate
Concen: 0.553 ppbv
RT: 2.836 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 43 Resp: 36258

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 11.2 | 8.2 | 12.2 |
| 61 | 8.3 | 7.3 | 10.9 |
| 70 | 9.9 | 7.2 | 10.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
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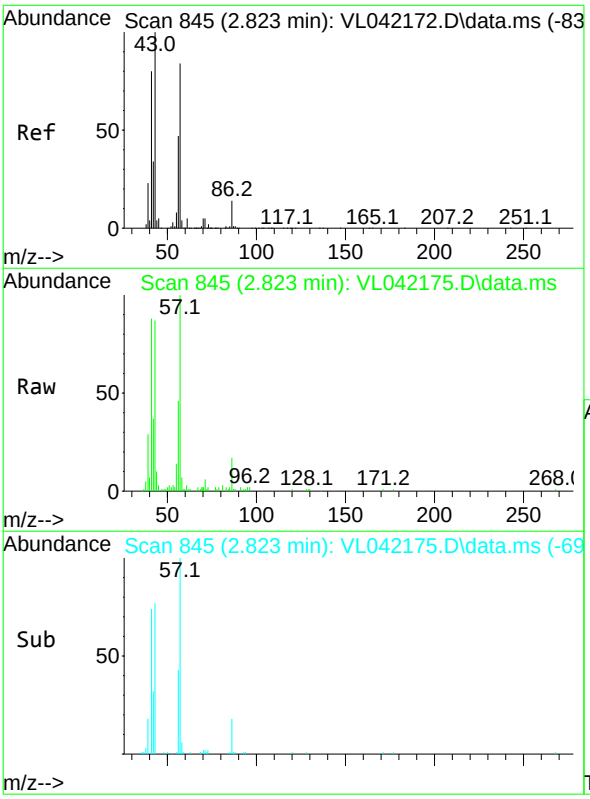
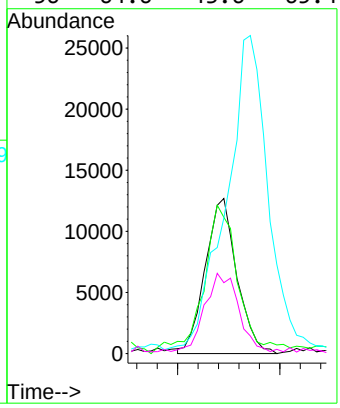
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

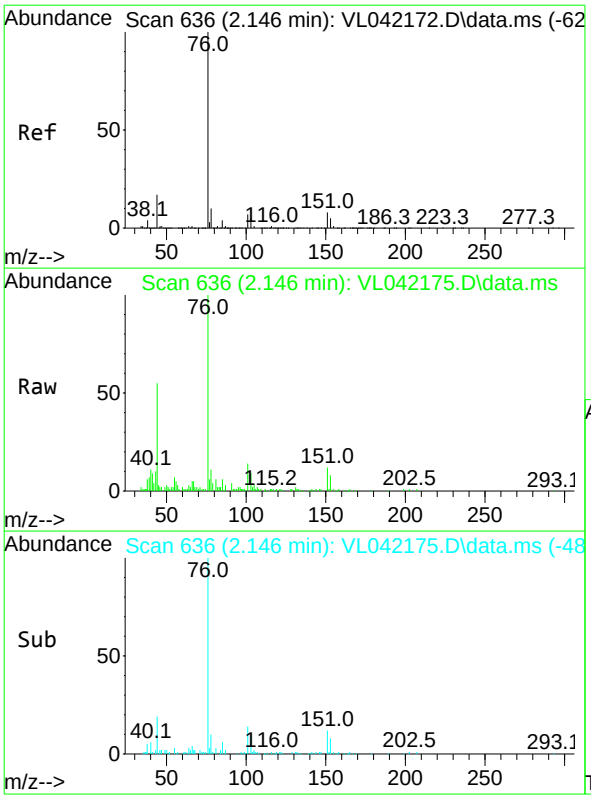



#26
Hexane
Concen: 0.538 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 57 Resp: 13605

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 92.1 | 76.6 | 114.8 |
| 43 | 273.4 | 207.8 | 311.8 |
| 56 | 64.6 | 43.6 | 65.4 |






#27
Carbon Disulfide
Concen: 0.535 ppbv
RT: 2.146 min Scan# 63
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 76 Resp: 14510

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 115.5 | 14.7 | 22.1# |
| 78 | 14.9 | 9.3 | 13.9# |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
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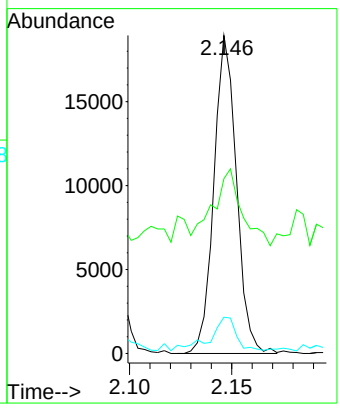
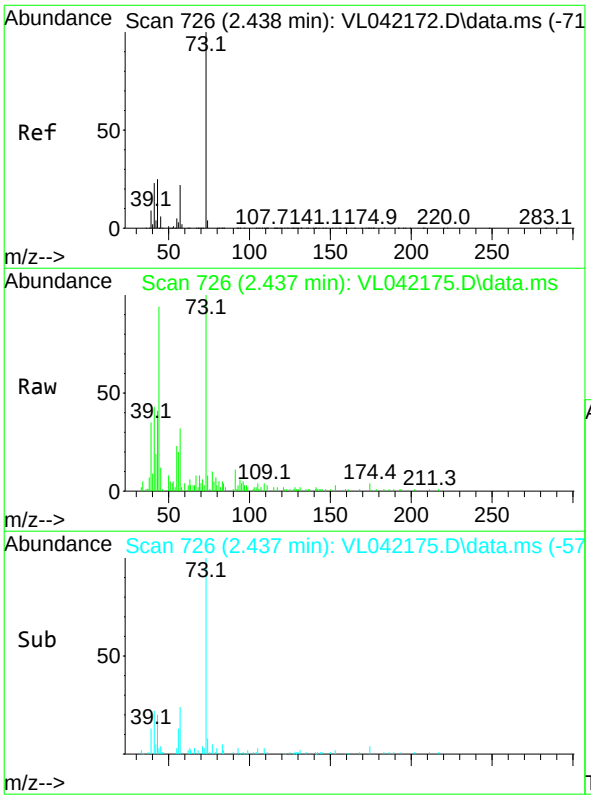
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

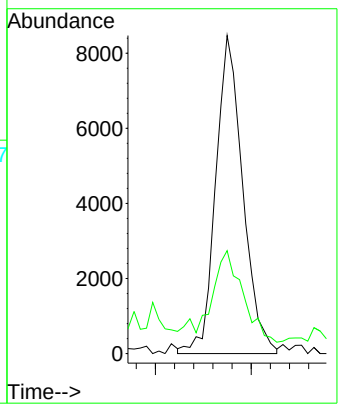


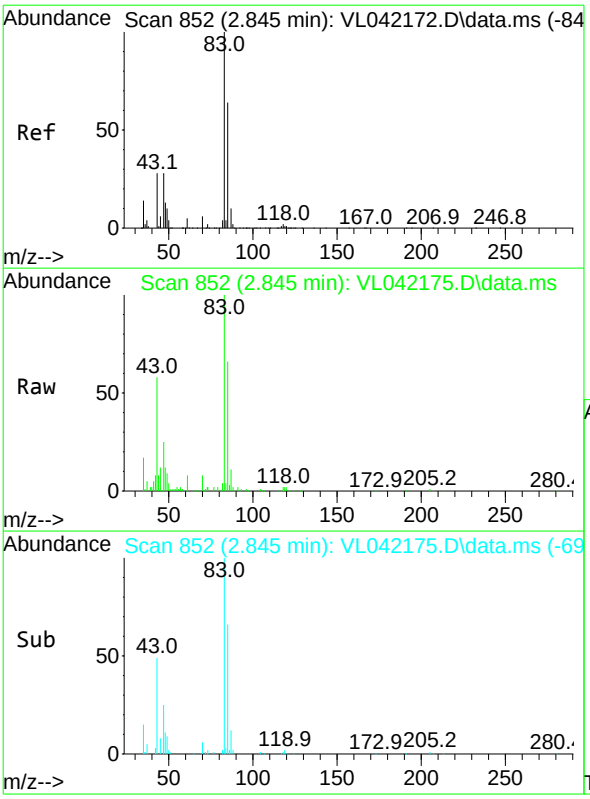




#28
Methyl tert-Butyl Ether
Concen: 0.527 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 73 Resp: 8310

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 31.1 | 20.5 | 30.7# |

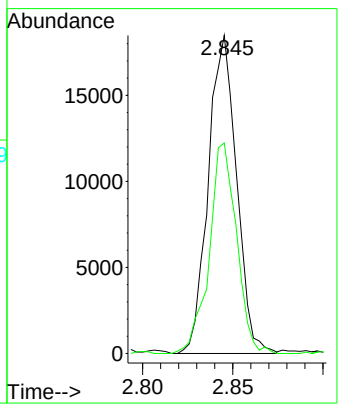





#29
Chloroform
Concen: 0.544 ppbv
RT: 2.845 min Scan# 85
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 83 Resp: 20149

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 66.2 | 51.4 | 77.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
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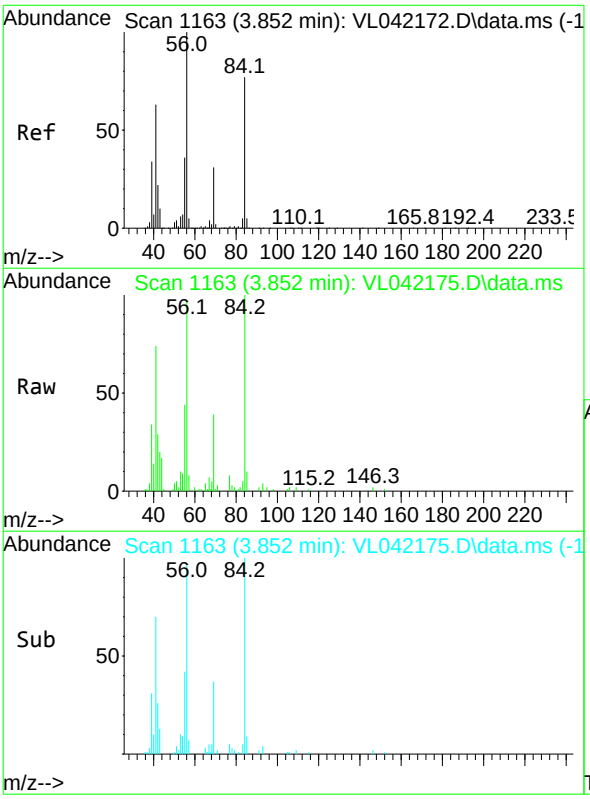
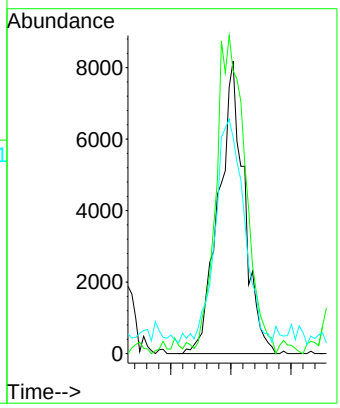
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

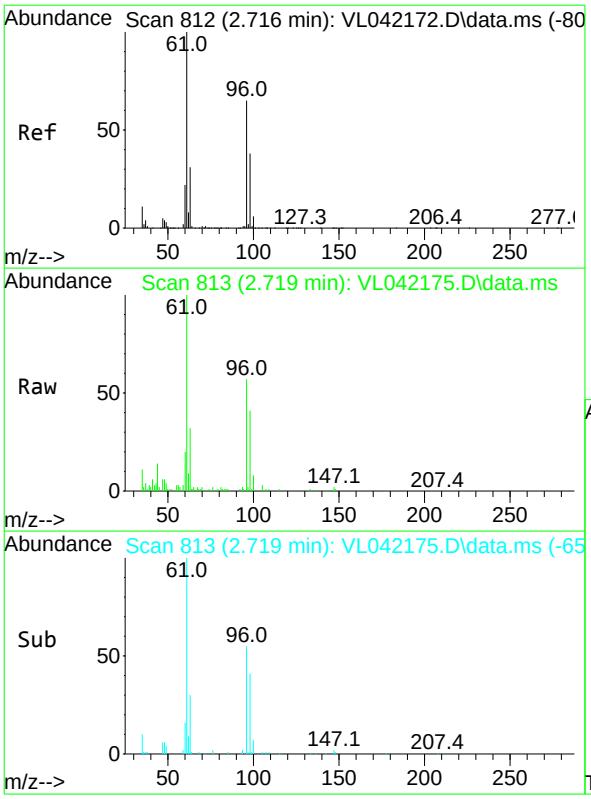



#30
Cyclohexane
Concen: 0.549 ppbv m
RT: 3.852 min Scan# 1163
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 84 Resp: 12063

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 126.3 | 102.8 | 154.2 |
| 41 | 93.5 | 66.5 | 99.7 |

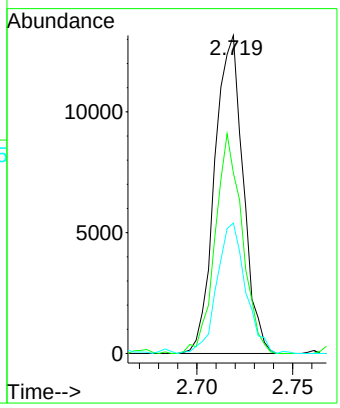





#31
cis-1,2-Dichloroethene
Concen: 0.529 ppbv
RT: 2.719 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 61 Resp: 13601

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 56.8 | 51.8 | 77.8 |
| 98 | 41.0 | 30.6 | 46.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
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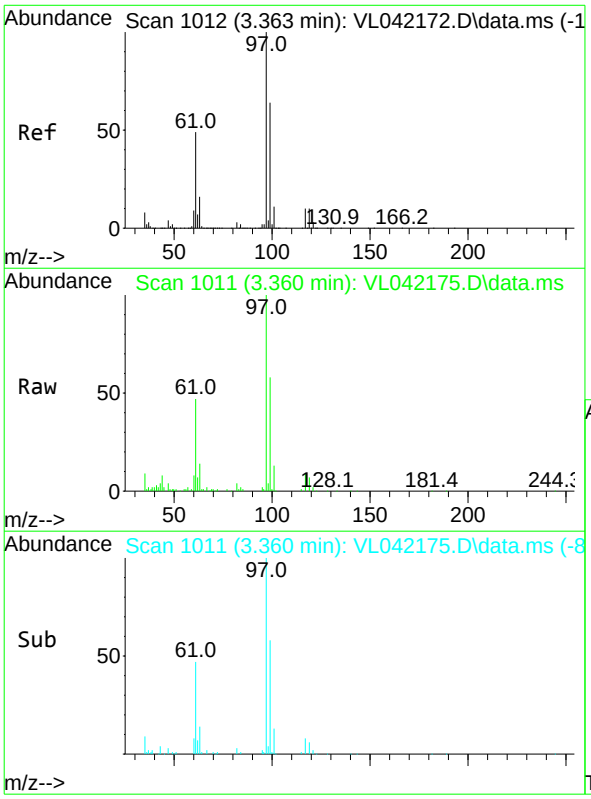
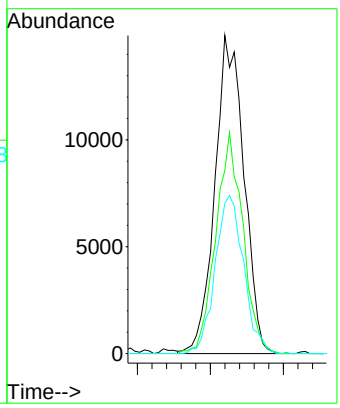
Supervised By :Mahesh Dadoda 04/03/2025

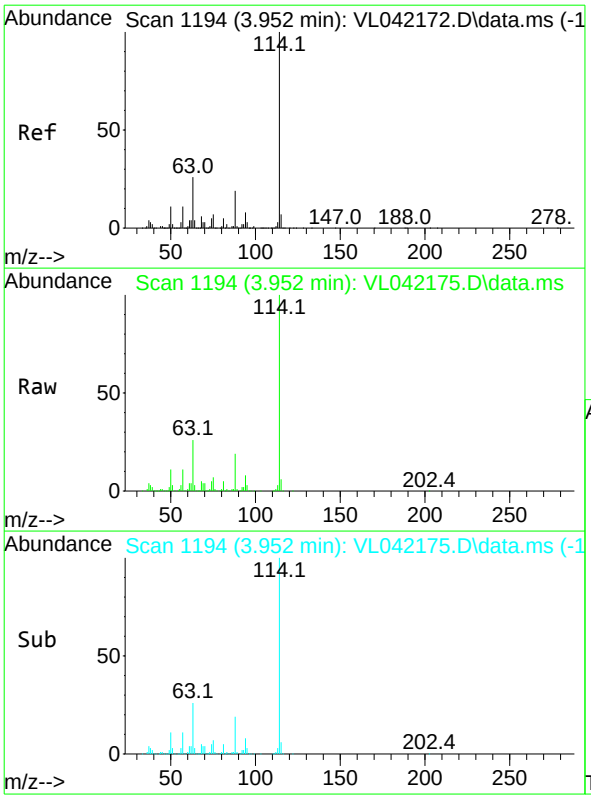



#32
1,1,1-Trichloroethane
Concen: 0.485 ppbv
RT: 3.360 min Scan# 1011
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 97 Resp: 20567

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.8 | 51.5 | 77.3 |
| 61 | 48.6 | 38.7 | 58.1 |

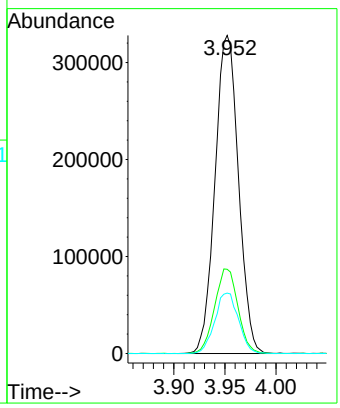





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:114 Resp: 523832

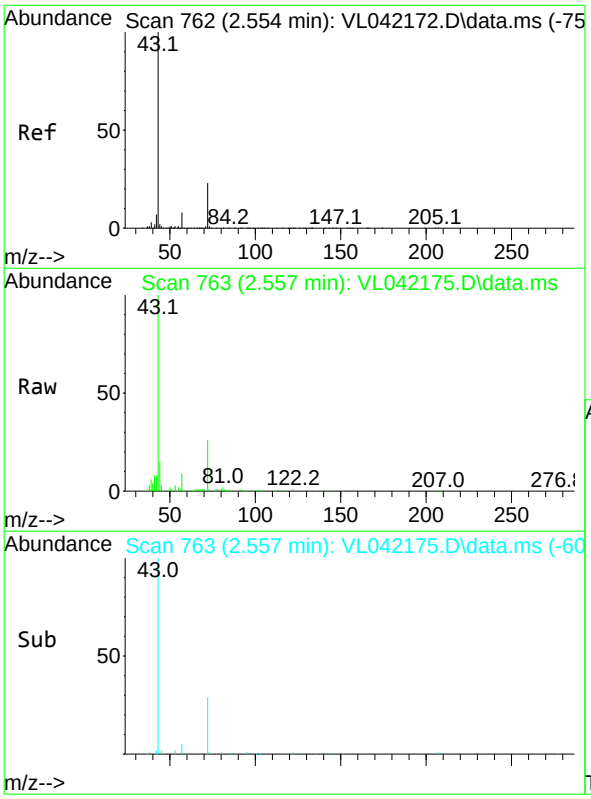
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 26.4 | 20.7 | 31.1 |
| 88 | 19.1 | 15.0 | 22.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
**APPROVED**

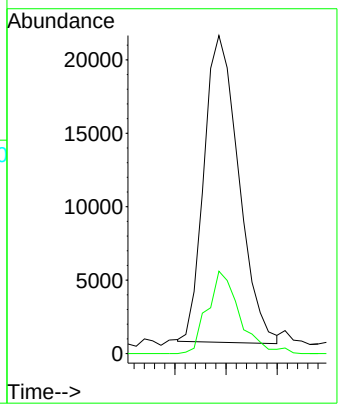
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

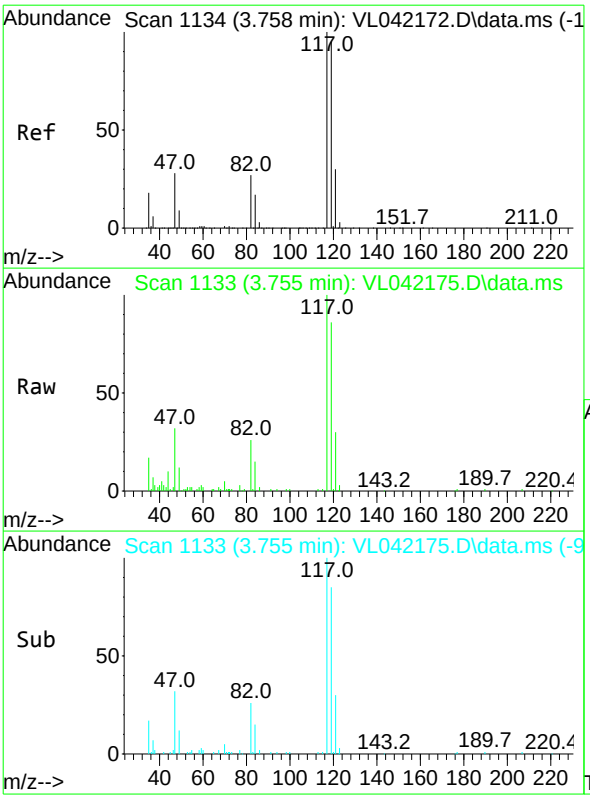



#34
2-Butanone
Concen: 0.520 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 43 Resp: 19739

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 24.8 | 18.2 | 27.2 |






#35
Carbon Tetrachloride
Concen: 0.460 ppbv
RT: 3.755 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:117 Resp: 18558

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 86.4 | 76.2 | 114.2 |
| 121 | 30.1 | 24.2 | 36.4 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
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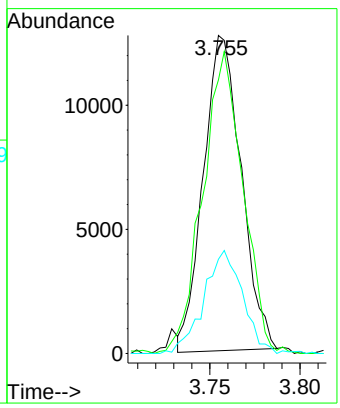
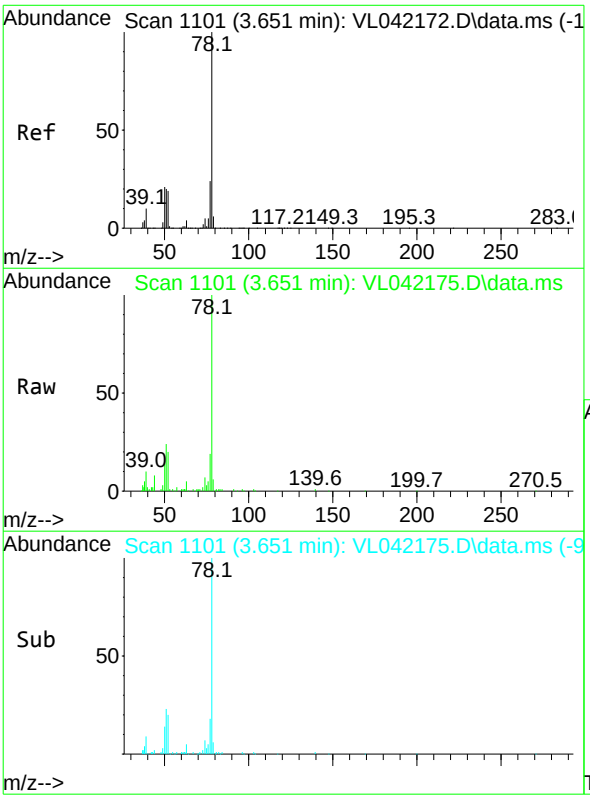
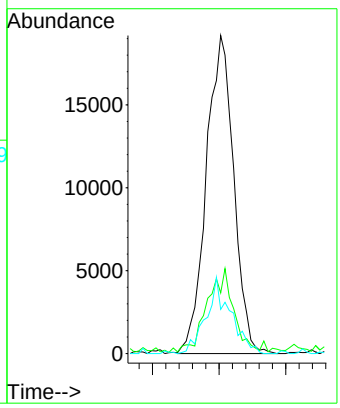


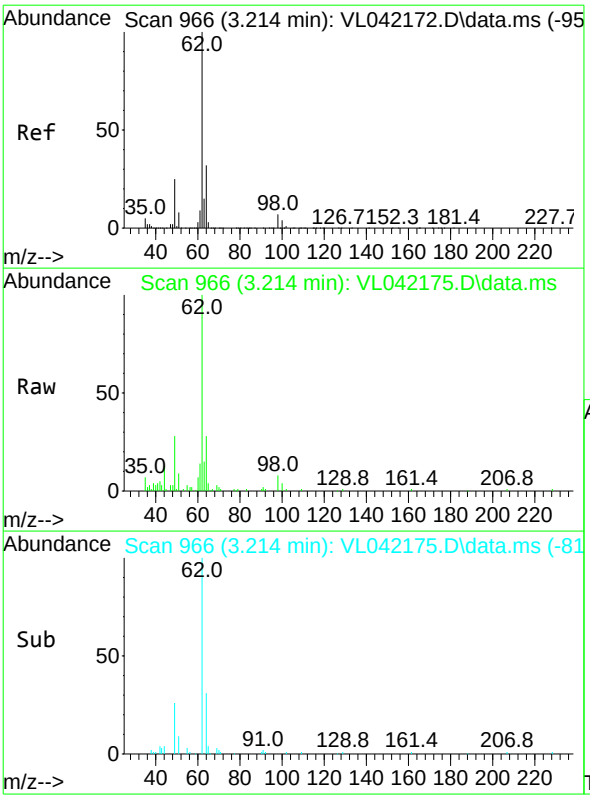




#36
Benzene
Concen: 0.529 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 78 Resp: 27488

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 18.5 | 19.1 | 28.7# |
| 50 | 13.9 | 16.6 | 24.8# |

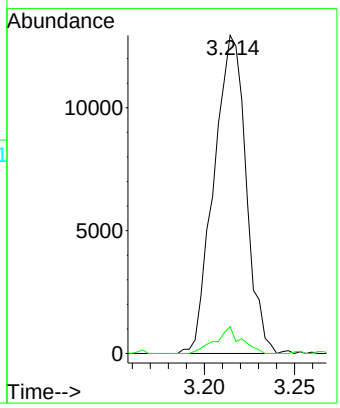





#37
1,2-Dichloroethane
Concen: 0.540 ppbv
RT: 3.214 min Scan# 96
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 62 Resp: 16062

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 7.0 | 5.4 | 8.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
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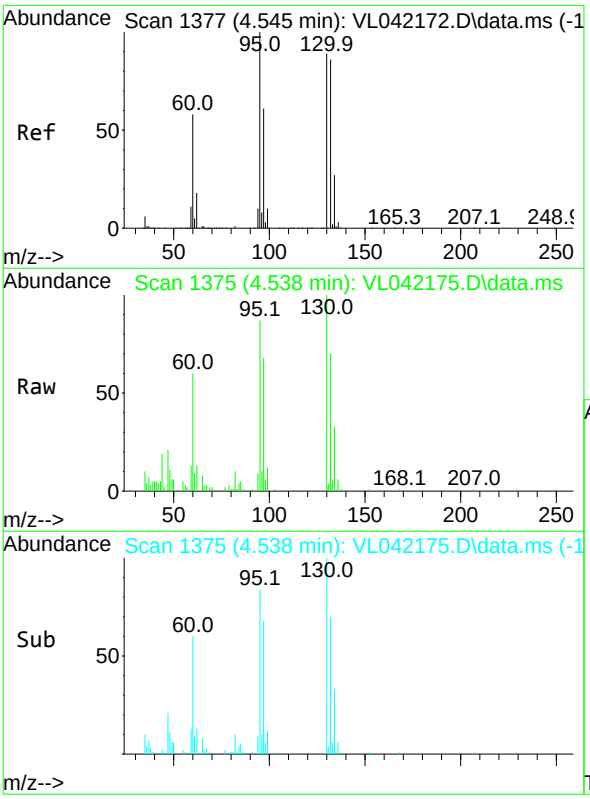
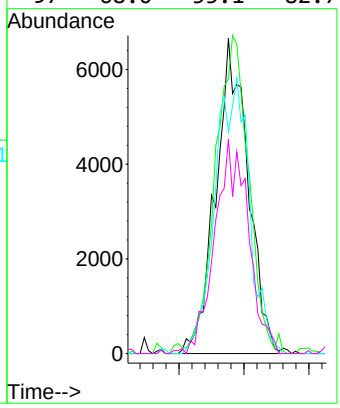
Supervised By :Mahesh Dadoda 04/03/2025

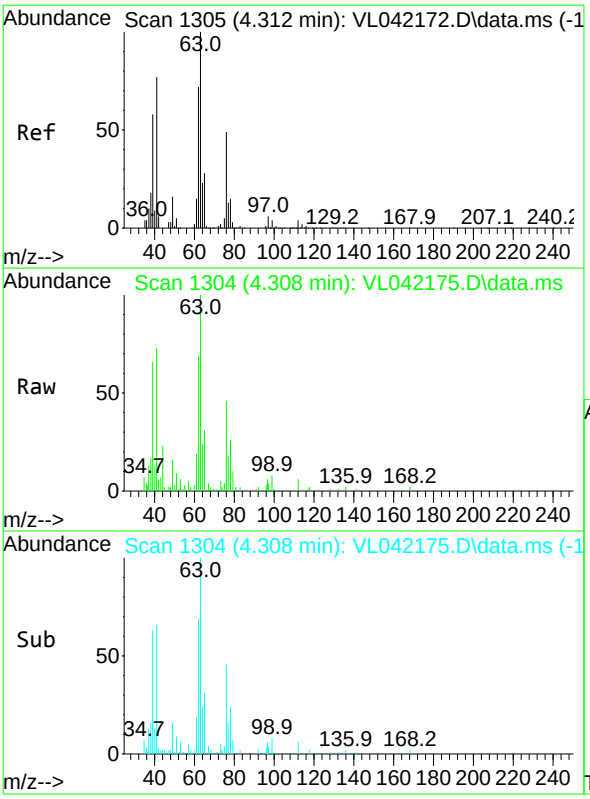



#38
Trichloroethene
Concen: 0.529 ppbv m
RT: 4.538 min Scan# 1375
Delta R.T. -0.007 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:130 Resp: 11460

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 87.1 | 89.8 | 134.8# |
| 132 | 70.3 | 77.4 | 116.2# |
| 97 | 68.0 | 55.1 | 82.7 |

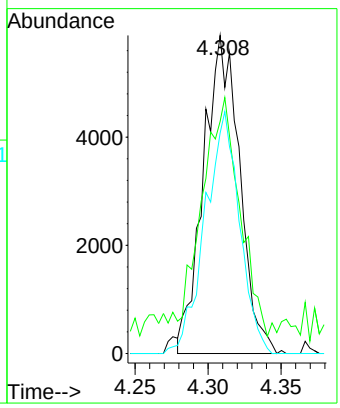





#39
1,2-Dichloropropane
Concen: 0.535 ppbv
RT: 4.308 min Scan# 13
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 63 Resp: 10123

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 66.4 | 61.7 | 92.5 |
| 62 | 69.3 | 57.6 | 86.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
**APPROVED**

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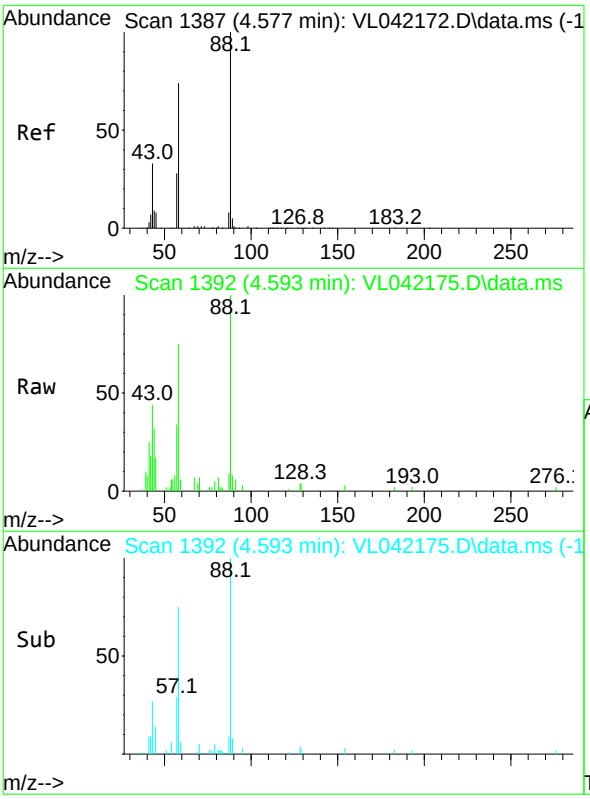
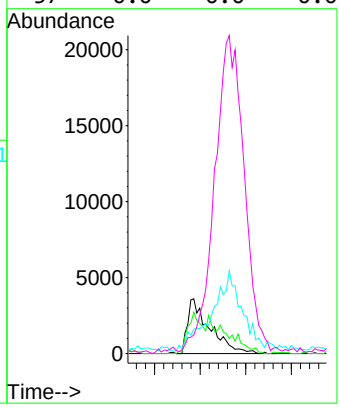
Supervised By :Mahesh Dadoda 04/03/2025

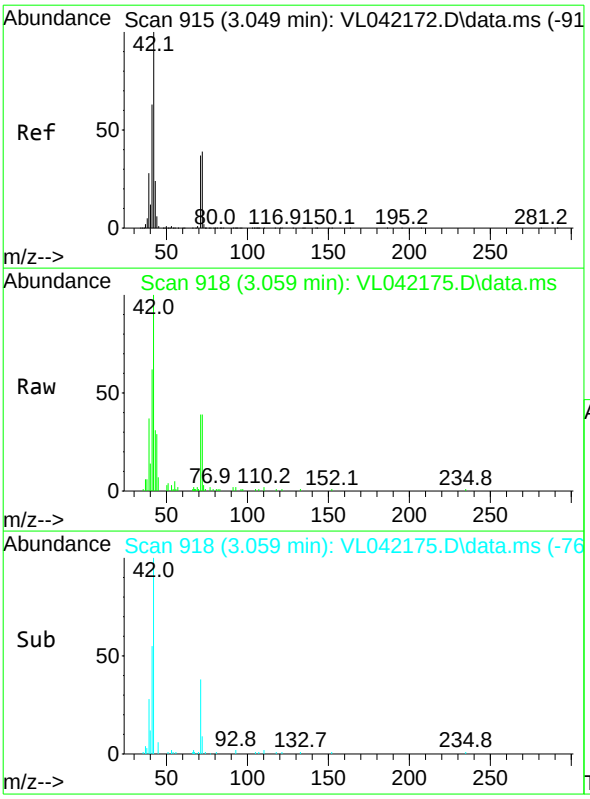



#40
1,4-Dioxane
Concen: 0.624 ppbv m
RT: 4.593 min Scan# 1392
Delta R.T. 0.016 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 88 Resp: 6121

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 111.2 | 62.7 | 94.1# |
| 43 | 0.0 | 23.0 | 34.4# |
| 57 | 0.0 | 0.0 | 0.0 |

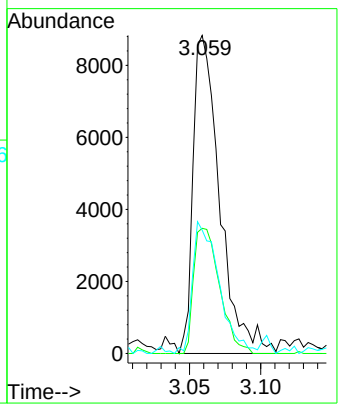





#41
Tetrahydrofuran
Concen: 0.533 ppbv m
RT: 3.059 min Scan# 91
Delta R.T. 0.010 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 42 Resp: 11509

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 38.4 | 31.4 | 47.0 |
| 71 | 40.7 | 30.2 | 45.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
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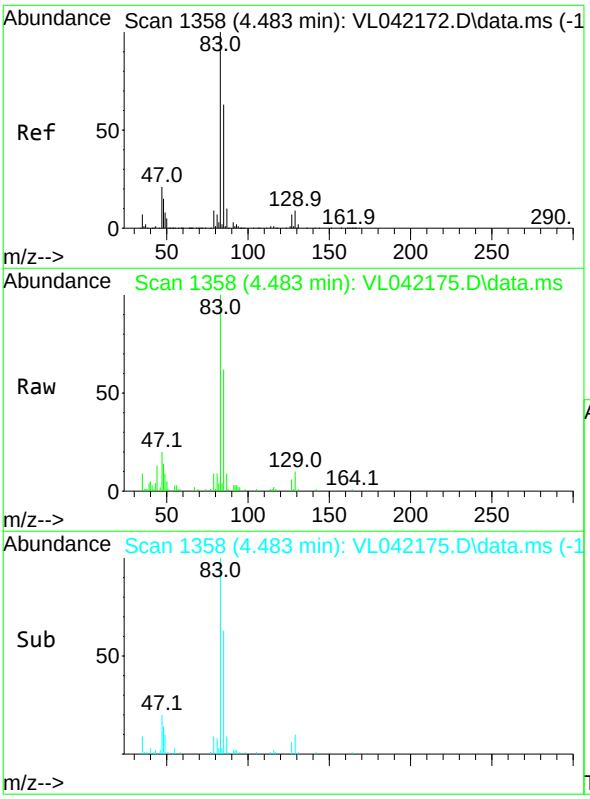
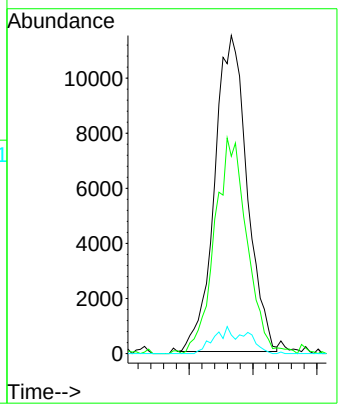
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

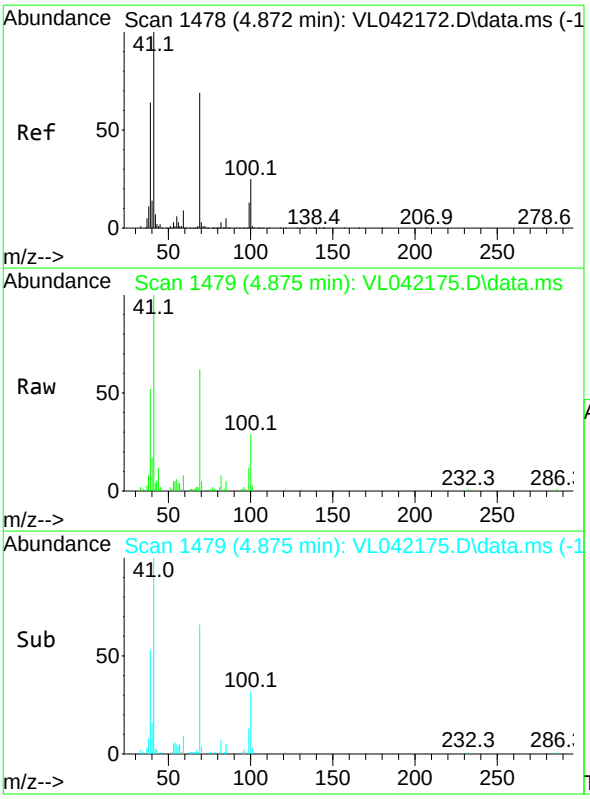



#42
Bromodichloromethane
Concen: 0.497 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 83 Resp: 20374

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 61.6 | 50.5 | 75.7 |
| 127 | 5.9 | 5.9 | 8.9# |

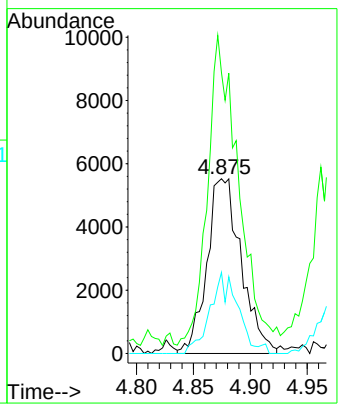





#43
Methyl Methacrylate
Concen: 0.528 ppbv m
RT: 4.875 min Scan# 14
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 69 Resp: 11583

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 150.3 | 123.8 | 185.6 |
| 100 | 37.9 | 28.4 | 42.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
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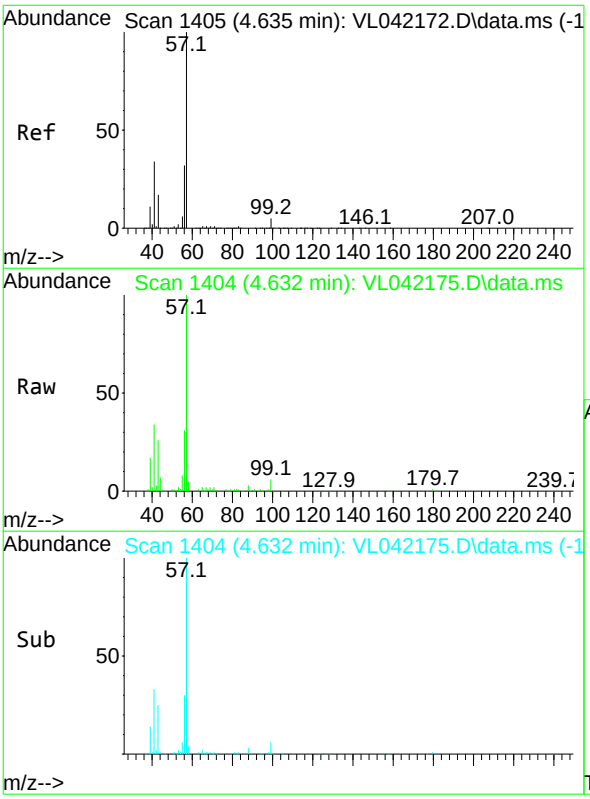
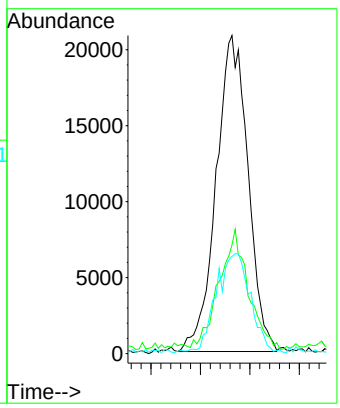
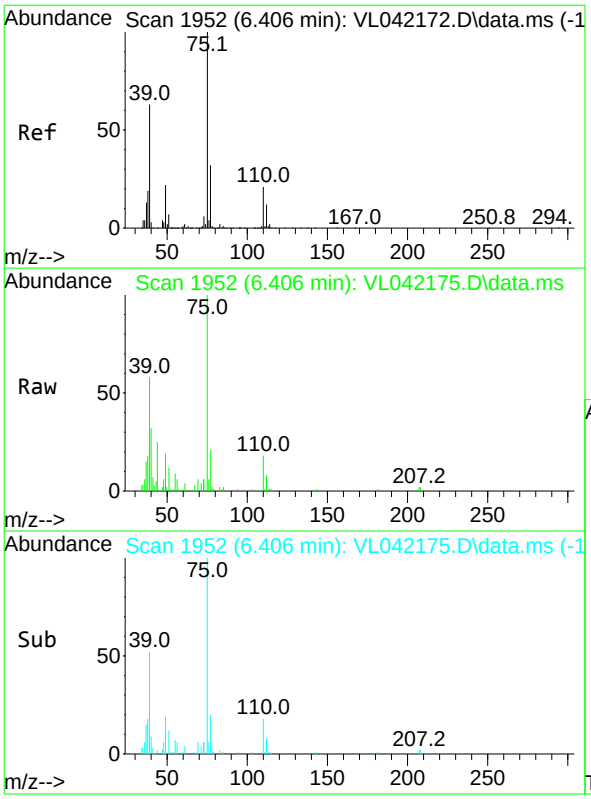



#44
2,2,4-Trimethylpentane
Concen: 0.532 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 57 Resp: 46646

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 36.7 | 26.8 | 40.2 |
| 56 | 34.3 | 25.6 | 38.4 |

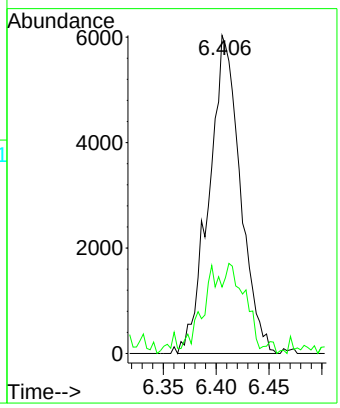





#45
t-1,3-Dichloropropene
Concen: 0.526 ppbv
RT: 6.406 min Scan# 19
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 75 Resp: 12404

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 20.9 | 26.0 | 39.0# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
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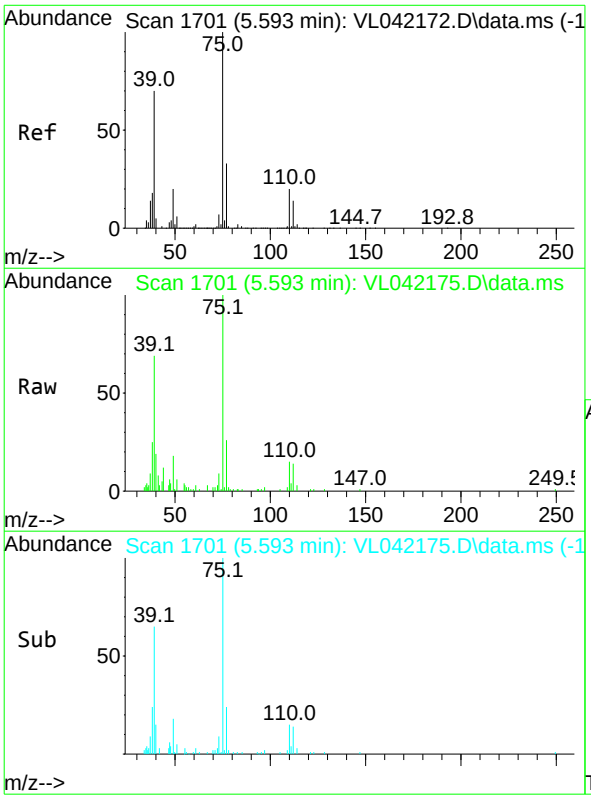
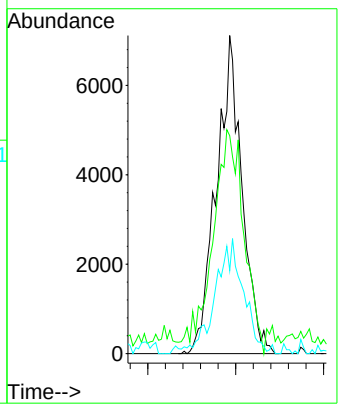
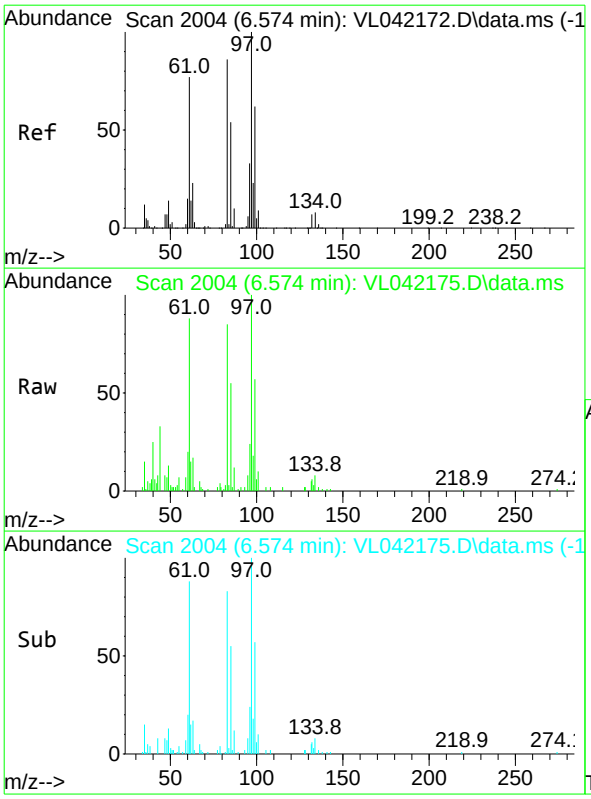



#46
cis-1,3-Dichloropropene
Concen: 0.497 ppbv m
RT: 5.593 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 75 Resp: 14374

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 39 | 68.5 | 55.8 | 83.6 |
| 77 | 26.1 | 26.0 | 39.0 |

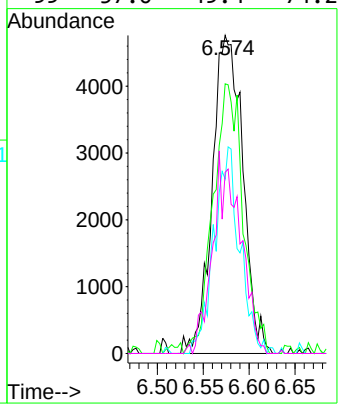





#47
1,1,2-Trichloroethane
Concen: 0.549 ppbv m
RT: 6.574 min Scan# 20
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 97 Resp: 10972

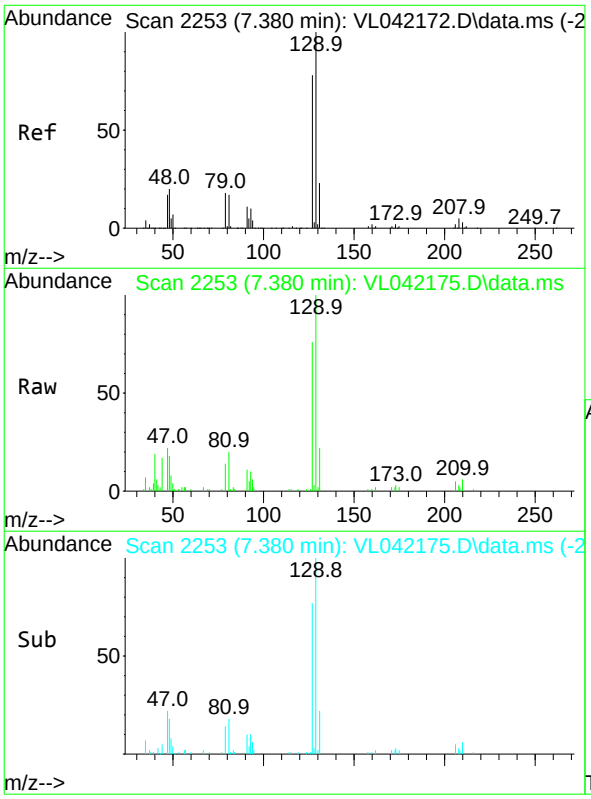
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 84.8 | 69.2 | 103.8 |
| 85 | 54.9 | 43.1 | 64.7 |
| 99 | 57.0 | 49.4 | 74.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations APPROVED**

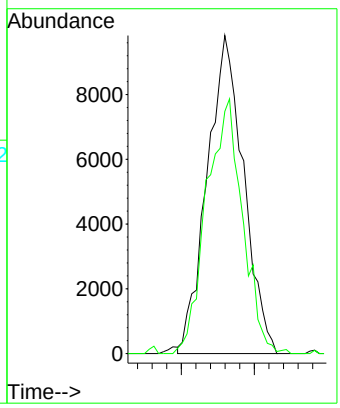
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

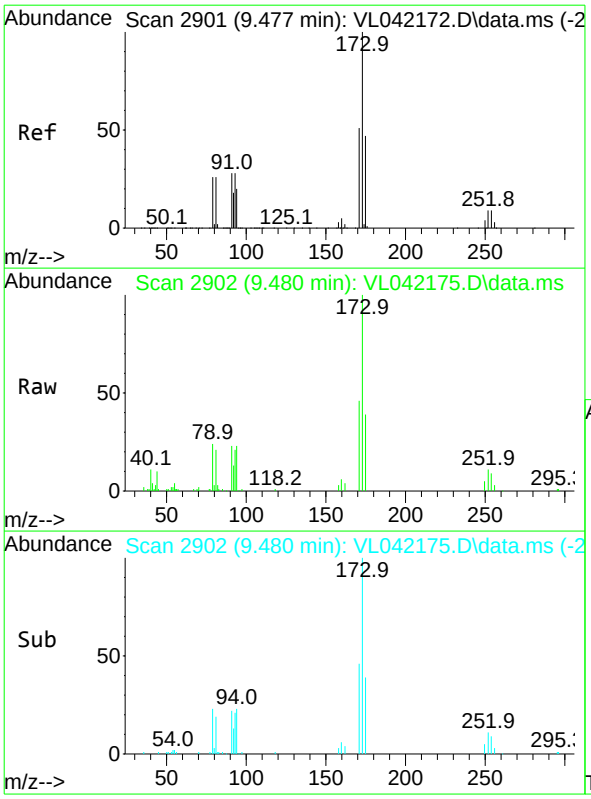



#48
Dibromochloromethane
Concen: 0.503 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:129 Resp: 17042

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 79.4 | 39.1 | 117.2 |

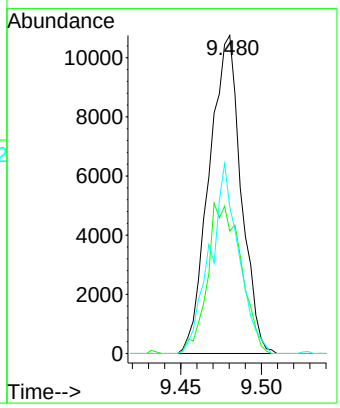





#49
Bromoform
Concen: 0.487 ppbv
RT: 9.480 min Scan# 29
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:173 Resp: 14828

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.7 | 38.6 | 57.8 |
| 171 | 53.8 | 41.8 | 62.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
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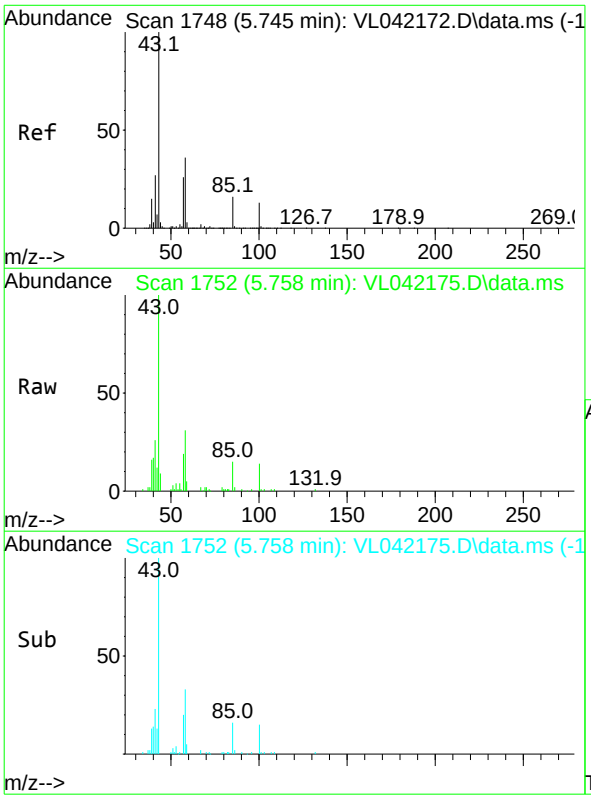
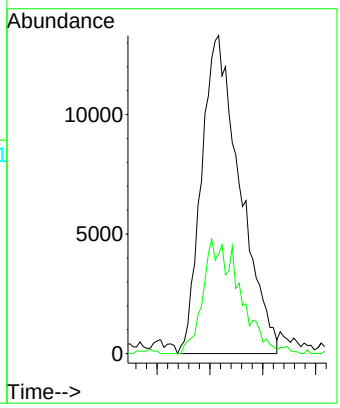
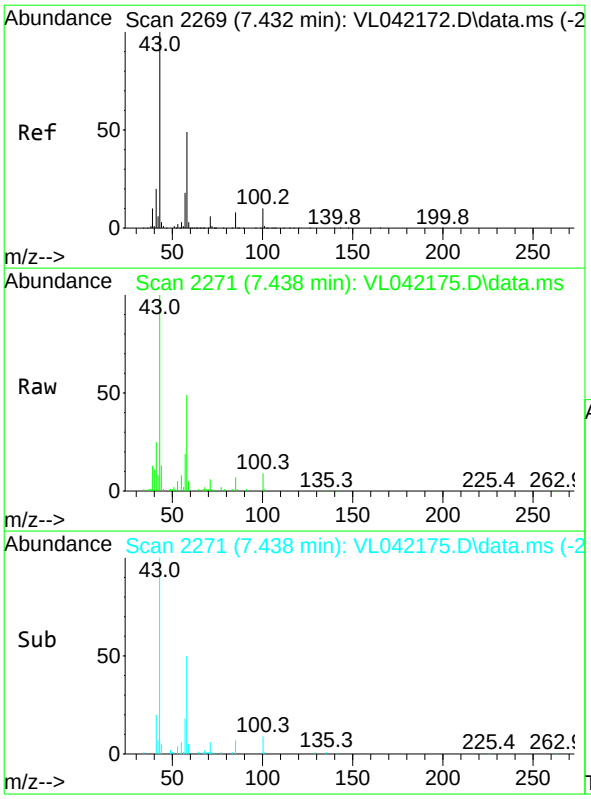



#50
4-Methyl-2-Pentanone
Concen: 0.559 ppbv
RT: 5.758 min Scan# 1752
Delta R.T. 0.013 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 43 Resp: 33674

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 34.4 | 29.0 | 43.6 |

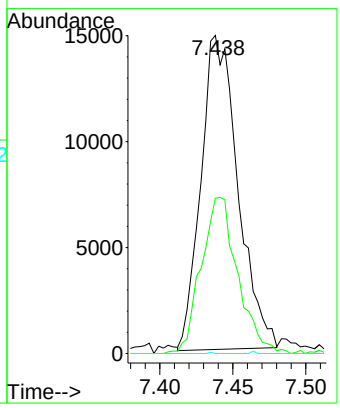





#51
2-Hexanone
Concen: 0.523 ppbv
RT: 7.438 min Scan# 22
Delta R.T. 0.006 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 43 Resp: 26154

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 49.8 | 39.7 | 59.5 |
| 98 | 0.0 | 0.1 | 0.1# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
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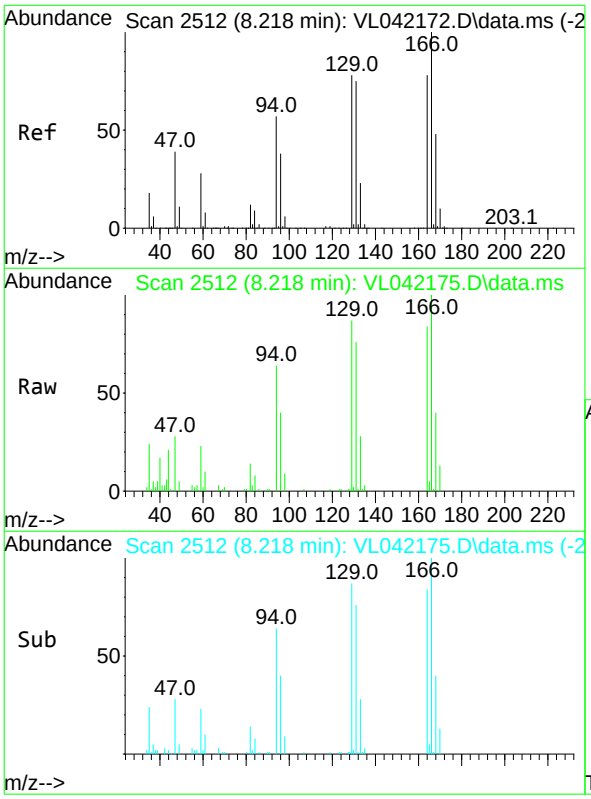
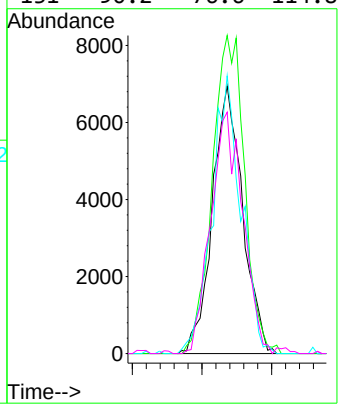
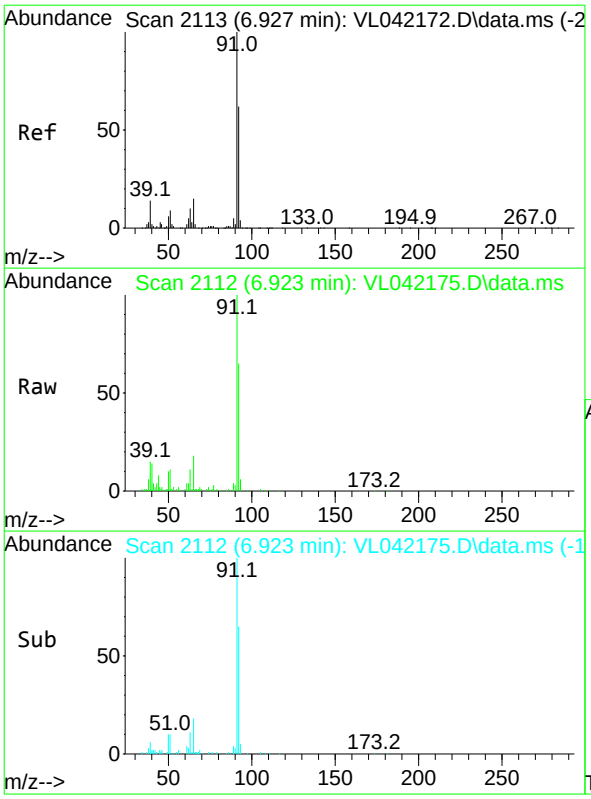



#52
Tetrachloroethene
Concen: 0.510 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:164 Resp: 10502

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 118.9 | 102.5 | 153.7 |
| 129 | 103.8 | 79.8 | 119.8 |
| 131 | 90.2 | 76.6 | 114.8 |

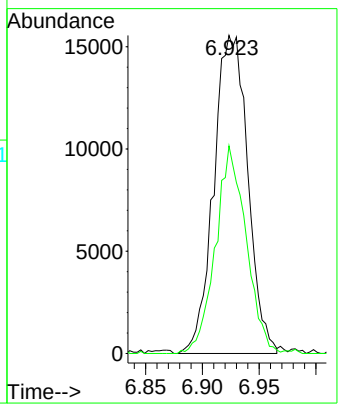





#53
Toluene
Concen: 0.527 ppbv
RT: 6.923 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 91 Resp: 32444

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 58.9 | 48.4 | 72.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
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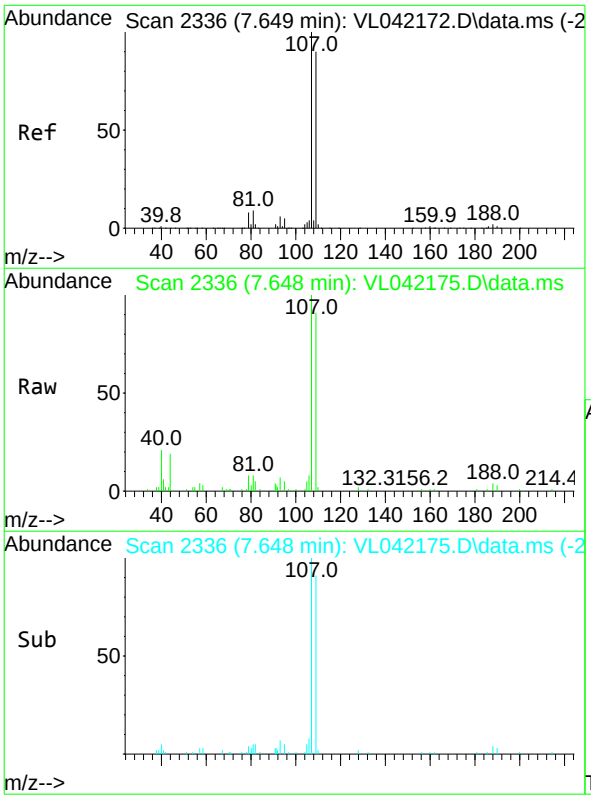
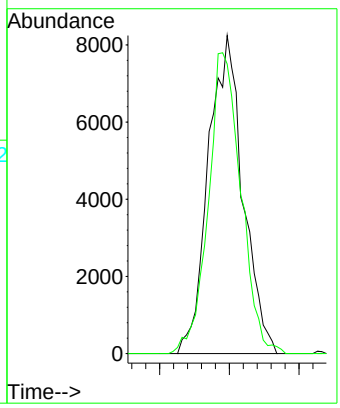
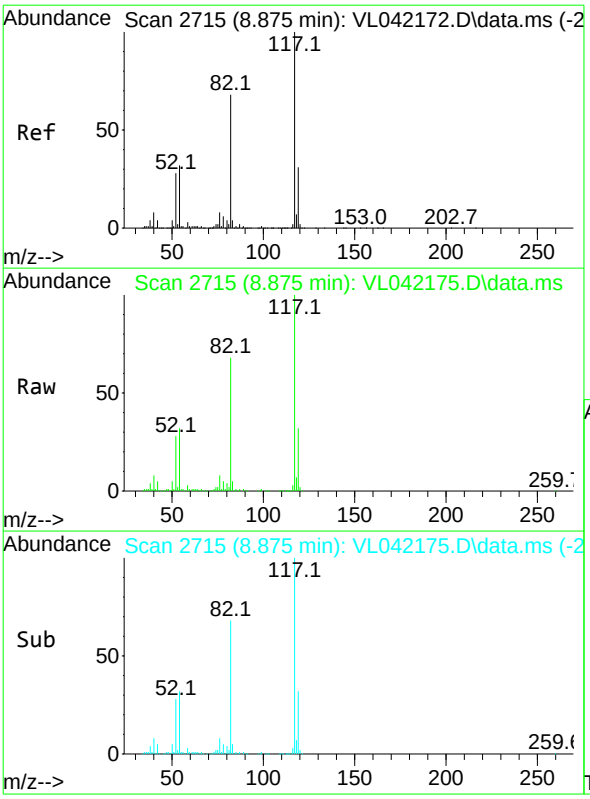



#54
1,2-Dibromoethane
Concen: 0.510 ppbv
RT: 7.648 min Scan# 2336
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:107 Resp: 14220

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 89.1 | 72.2 | 108.4 |

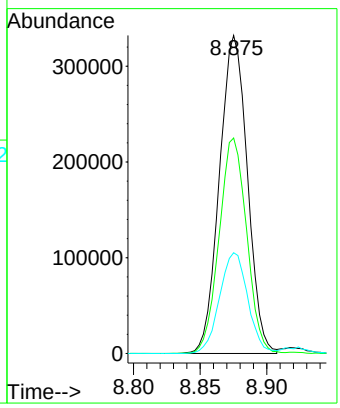





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 27
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:117 Resp: 485078

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 67.0 | 55.8 | 83.6 |
| 119 | 33.7 | 25.5 | 38.3 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
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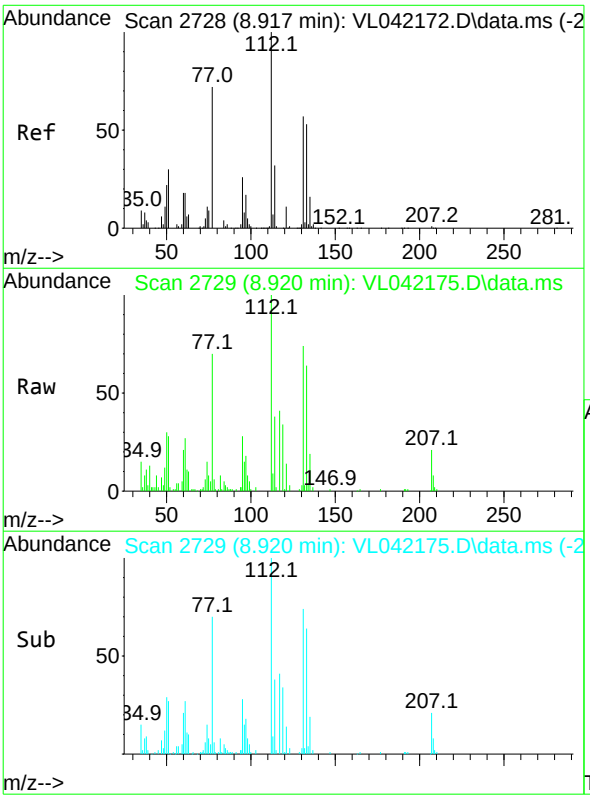
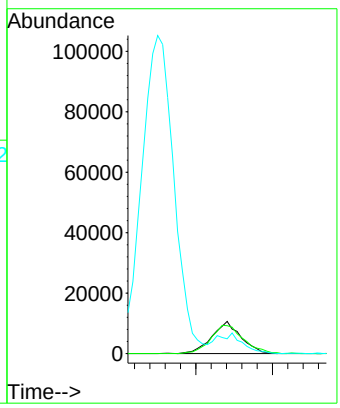
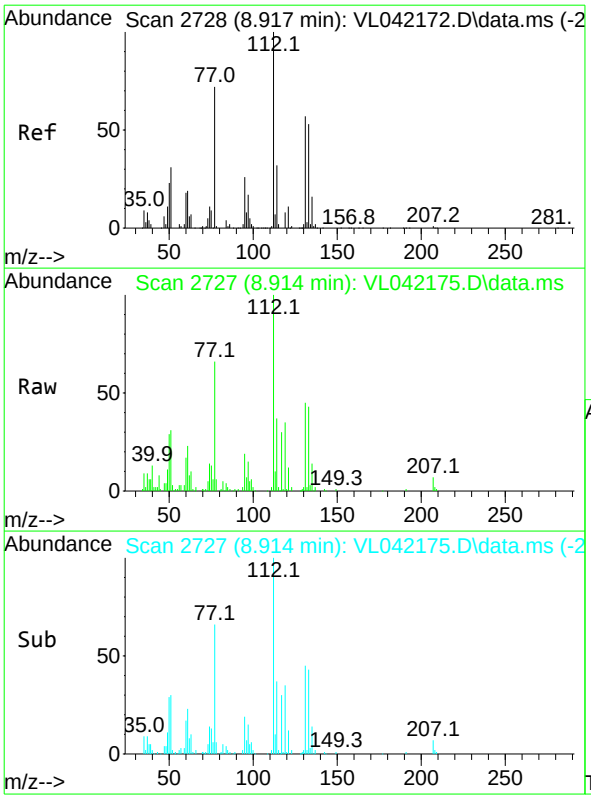



#56
1,1,1,2-Tetrachloroethane
Concen: 0.523 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:131 Resp: 13959

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 99.6 | 76.6 | 114.8 |
| 119 | 1170.3 | 49.8 | 74.6# |

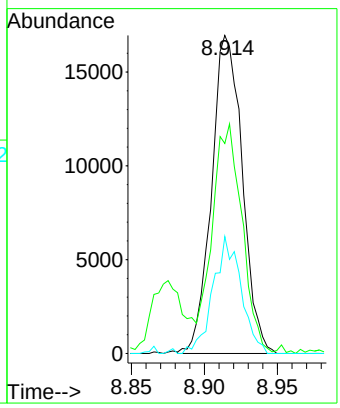





#57
Chlorobenzene
Concen: 0.540 ppbv
RT: 8.914 min Scan# 27
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:112 Resp: 24826

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 65.1 | 58.2 | 87.2 |
| 114 | 36.8 | 29.1 | 35.5# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
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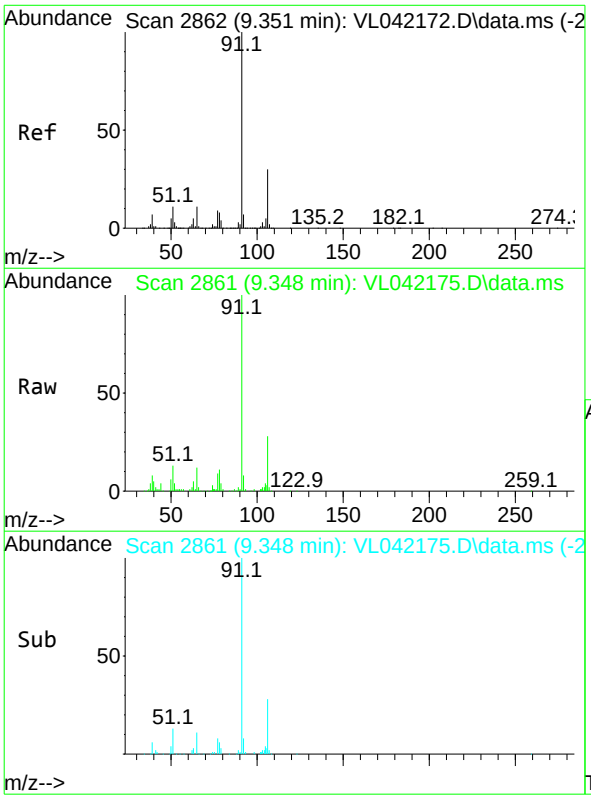
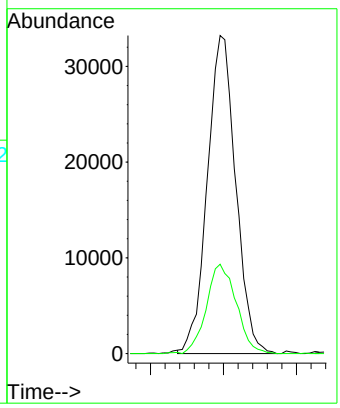
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

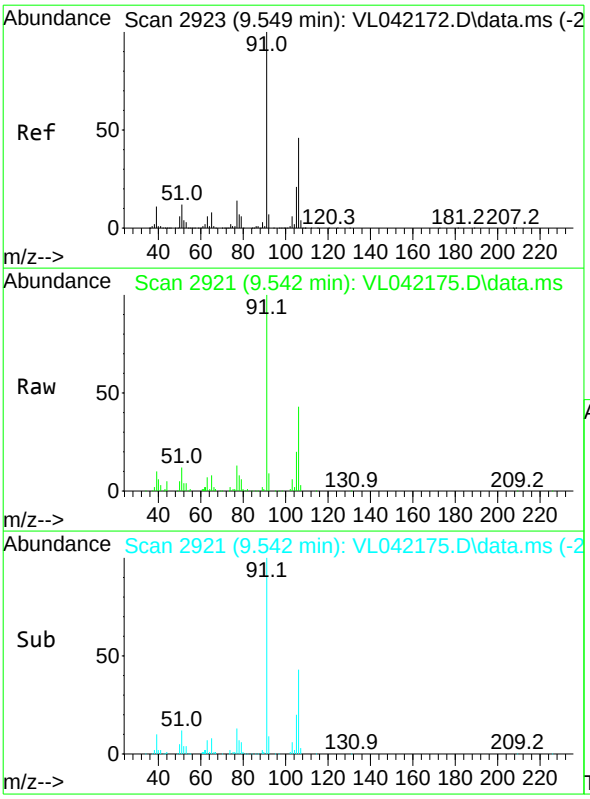



#58
Ethyl Benzene
Concen: 0.521 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 91 Resp: 44862

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 28.1 | 24.2 | 36.2 |

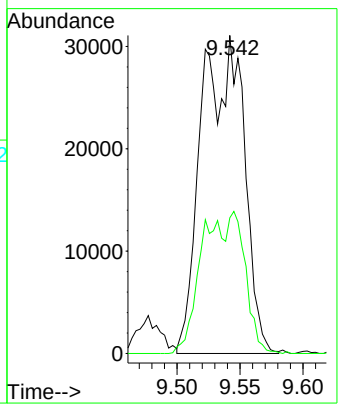





#59
m/p-Xylene
Concen: 1.060 ppbv m
RT: 9.542 min Scan# 29
Delta R.T. -0.007 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 91 Resp: 73028

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 45.2 | 36.4 | 54.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
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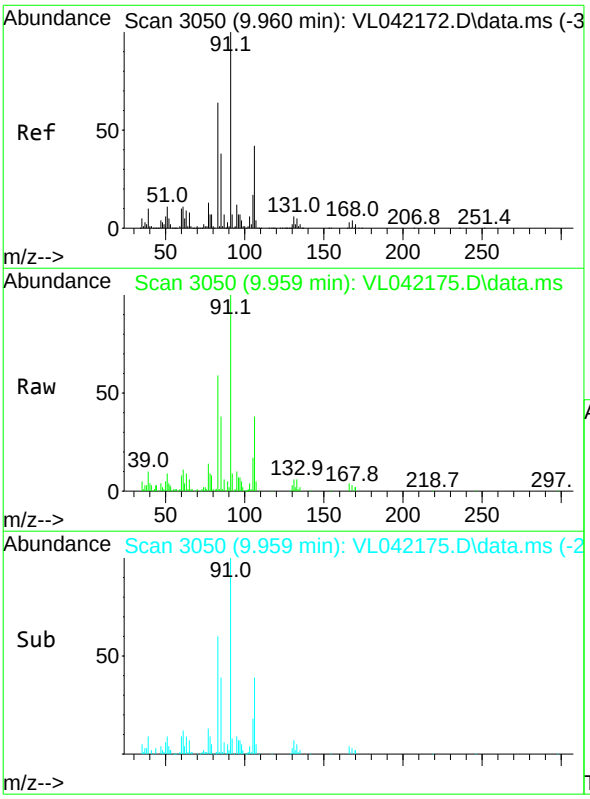
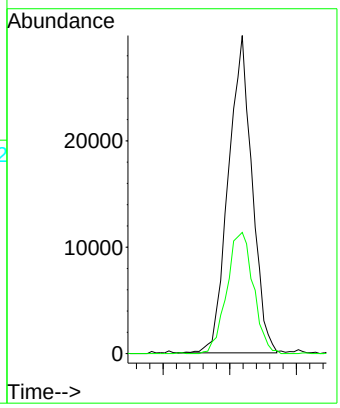
Supervised By :Mahesh Dadoda 04/03/2025

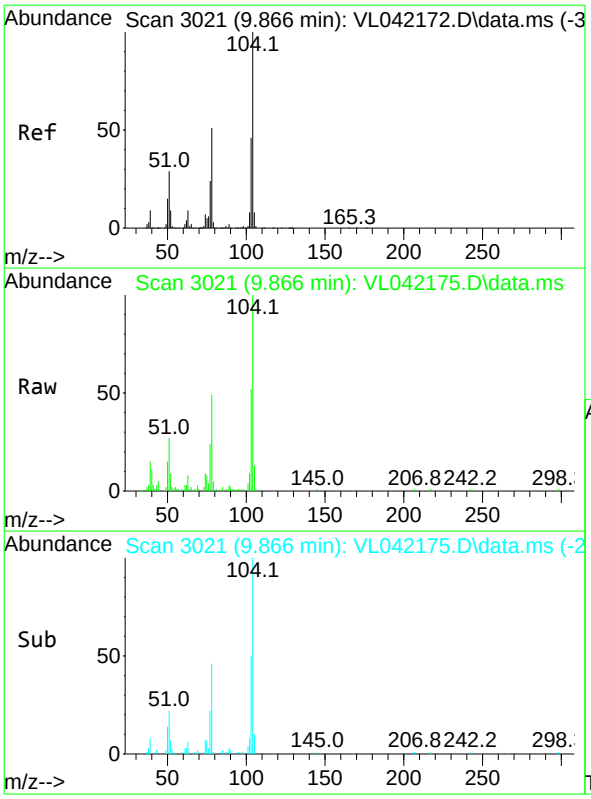



#60
o-Xylene
Concen: 0.535 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 91 Resp: 36879

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 42.7 | 20.8 | 62.5 |

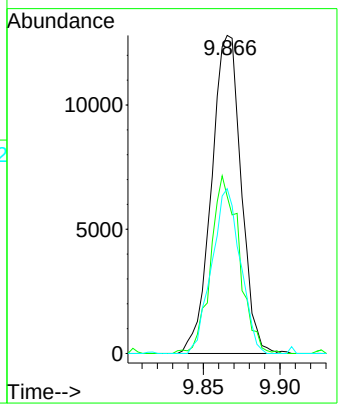





#61
Styrene
Concen: 0.504 ppbv
RT: 9.866 min Scan# 30
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:104 Resp: 17198

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 53.7 | 41.8 | 62.6 |
| 103 | 50.2 | 37.0 | 55.4 |




**Instrument :**
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VSTDICC0.5

**Manual Integrations**
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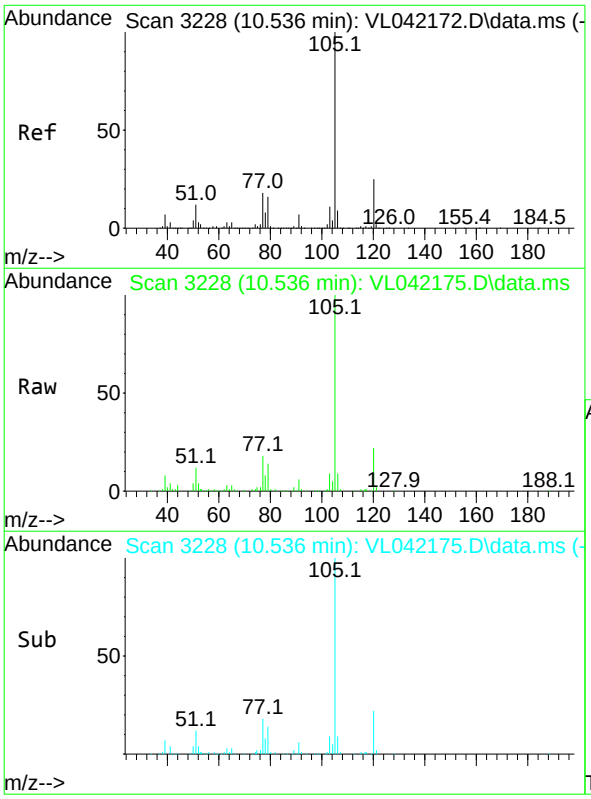
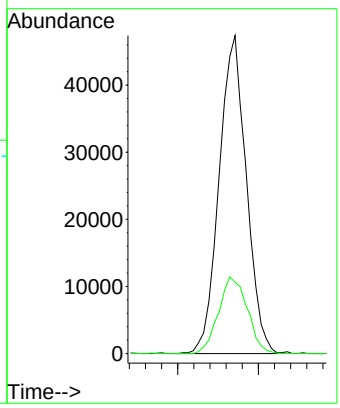
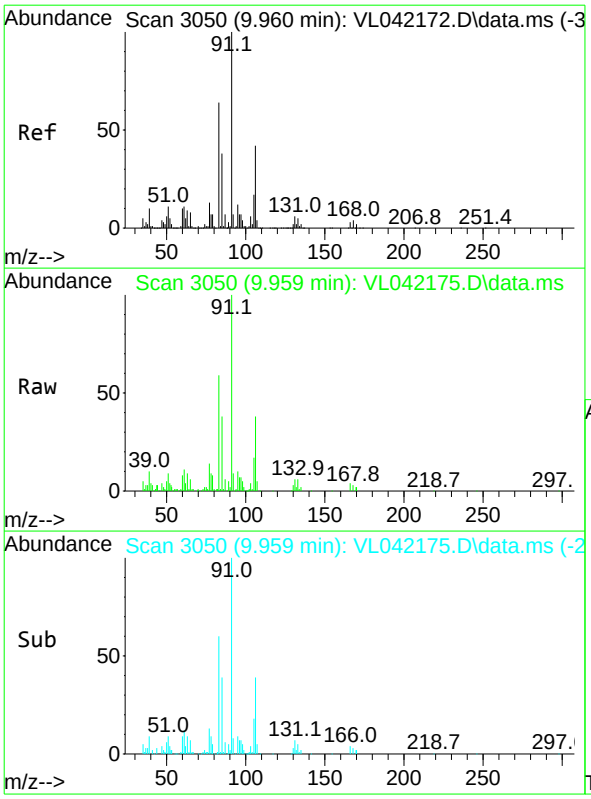



#62
Isopropylbenzene
Concen: 0.538 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:105 Resp: 55531

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.5 | 19.9 | 29.9 |

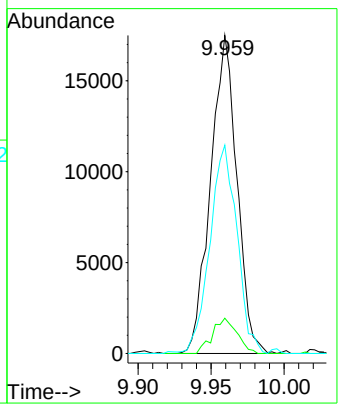





#63
1,1,2,2-Tetrachloroethane
Concen: 0.525 ppbv
RT: 9.959 min Scan# 30
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 83 Resp: 21989

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.4 | 4.8 | 14.4 |
| 85 | 68.1 | 32.5 | 97.5 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
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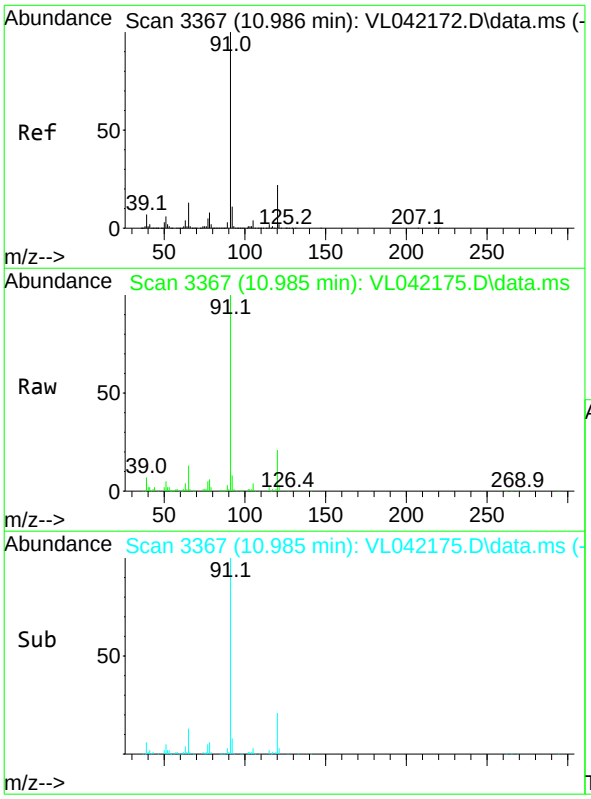
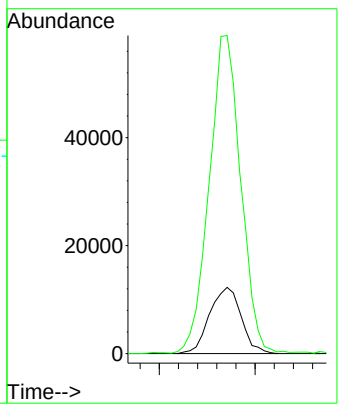
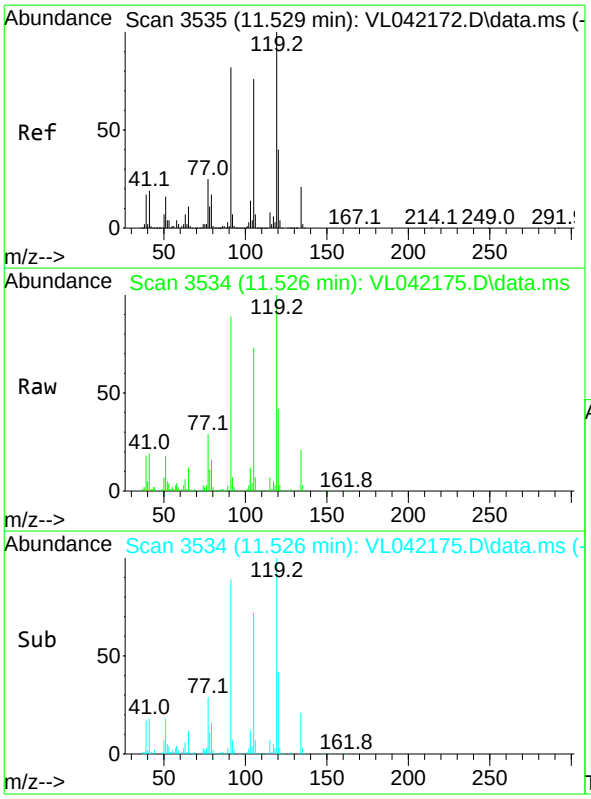



#64
n-propylbenzene
Concen: 0.528 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:120 Resp: 14030

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 483.1 | 376.9 | 565.3 |

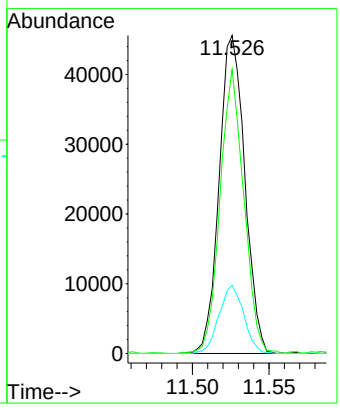





#65
tert-Butylbenzene
Concen: 0.557 ppbv
RT: 11.526 min Scan# 35
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:119 Resp: 53115

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 82.9 | 66.0 | 99.0 |
| 134 | 20.6 | 16.7 | 25.1 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
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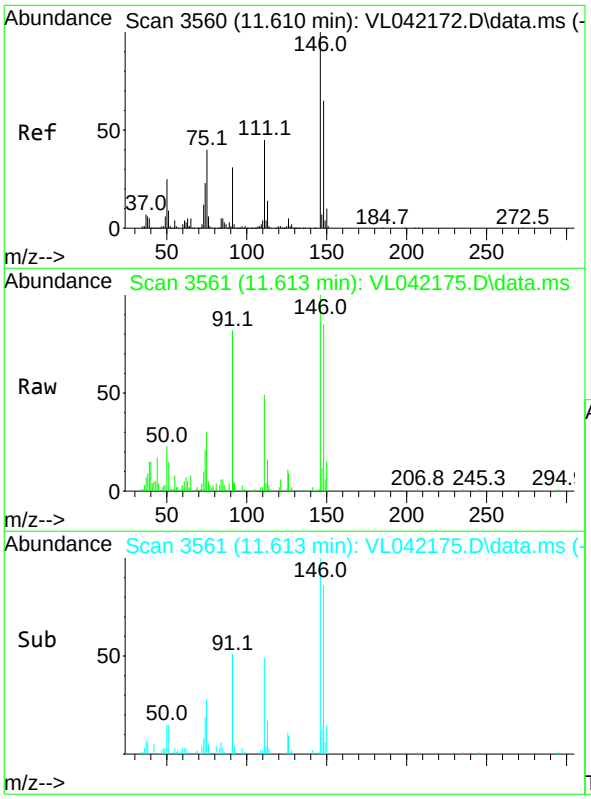
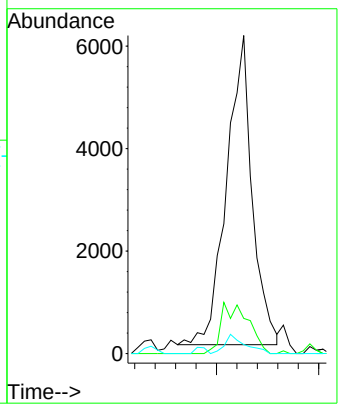
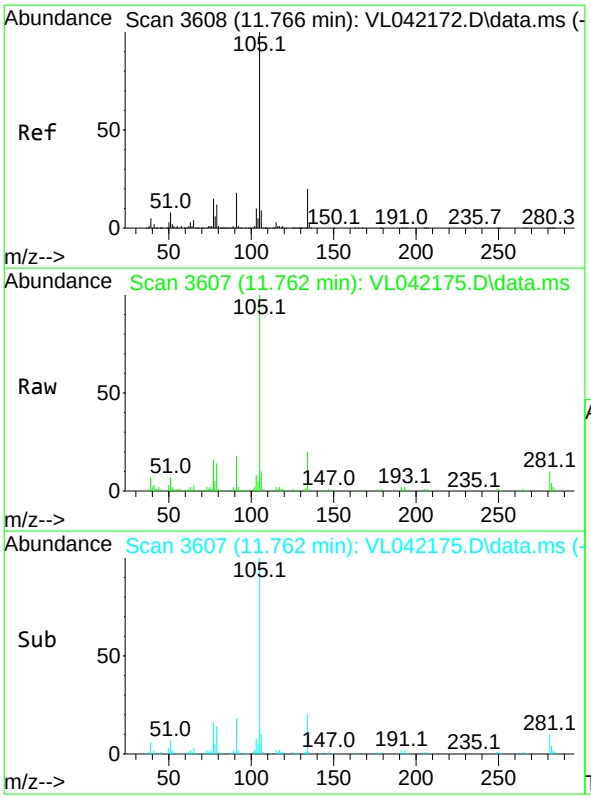



#66
Benzyl Chloride
Concen: 0.520 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 91 Resp: 5263

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 18.7 | 13.8 | 20.6 |
| 128 | 5.8 | 4.5 | 6.7 |

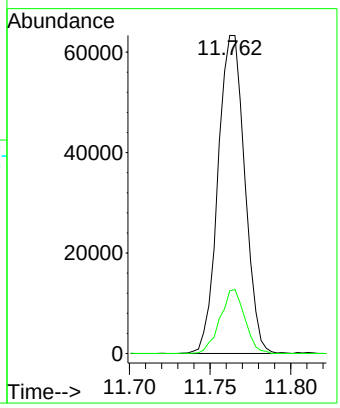





#67
sec-Butylbenzene
Concen: 0.550 ppbv
RT: 11.762 min Scan# 36
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:105 Resp: 72879

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 18.6 | 15.5 | 23.3 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

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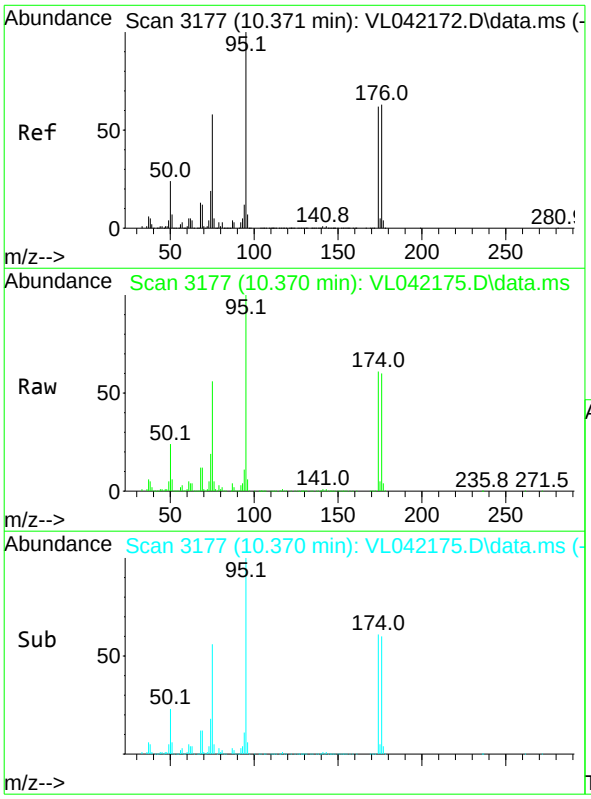
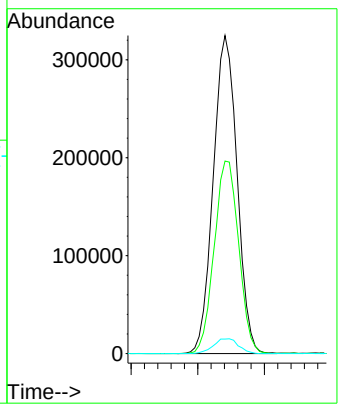
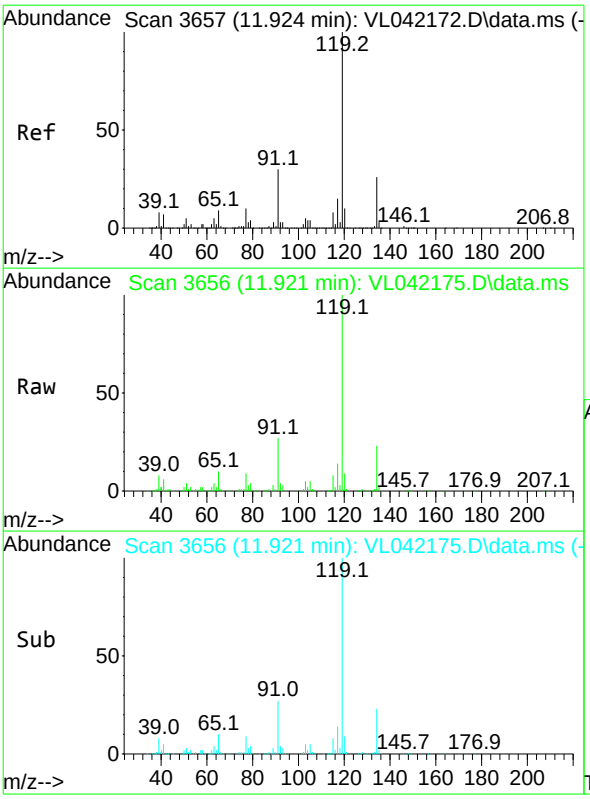



#68
1-Bromo-4-Fluorobenzene
Concen: 10.130 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 95 Resp: 403513

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 62.3 | 50.6 | 76.0 |
| 175 | 4.9 | 3.8 | 5.6 |

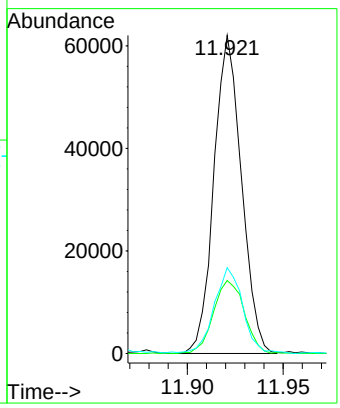





#69
p-Isopropyltoluene
Concen: 0.542 ppbv
RT: 11.921 min Scan# 36
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:119 Resp: 61933

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.8 | 20.4 | 30.6 |
| 91 | 29.4 | 23.7 | 35.5 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
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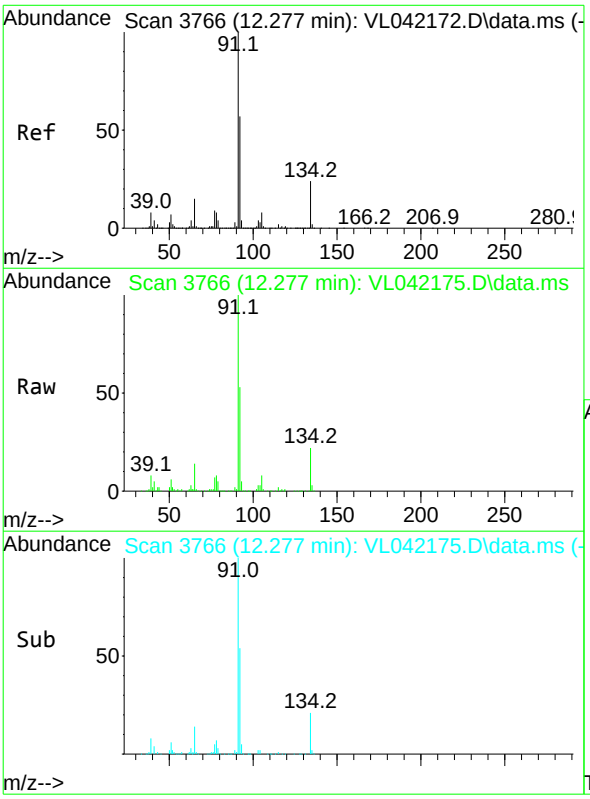
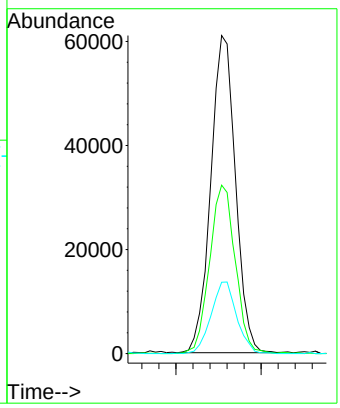
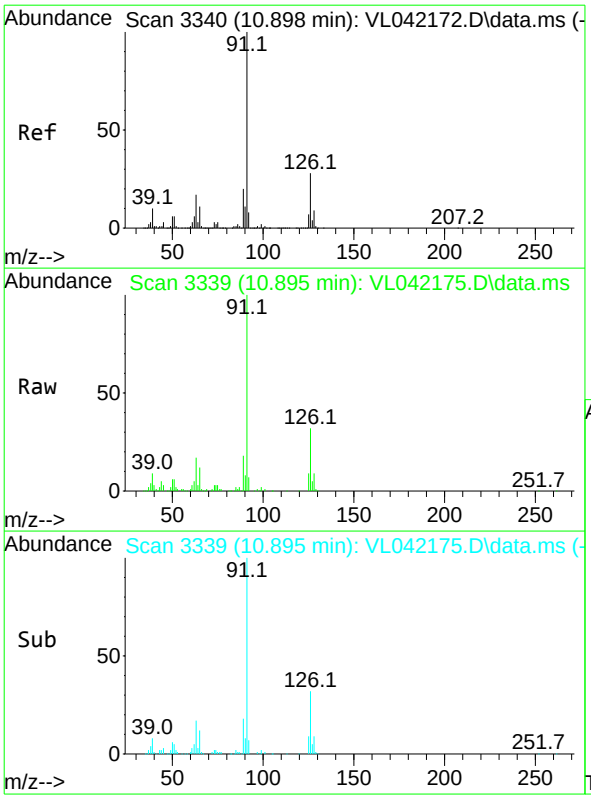



#70
n-Butylbenzene
Concen: 0.527 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 91 Resp: 61507

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 55.3 | 44.9 | 67.3 |
| 134 | 23.4 | 19.2 | 28.8 |

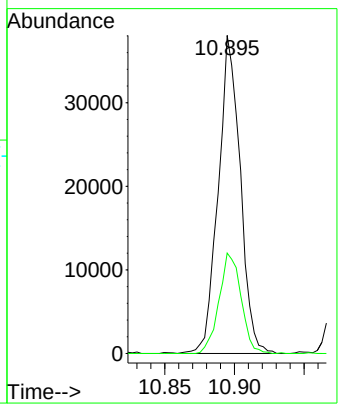





#71
2-Chlorotoluene
Concen: 0.520 ppbv
RT: 10.895 min Scan# 33
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 91 Resp: 41637

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 31.7 | 11.6 | 46.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
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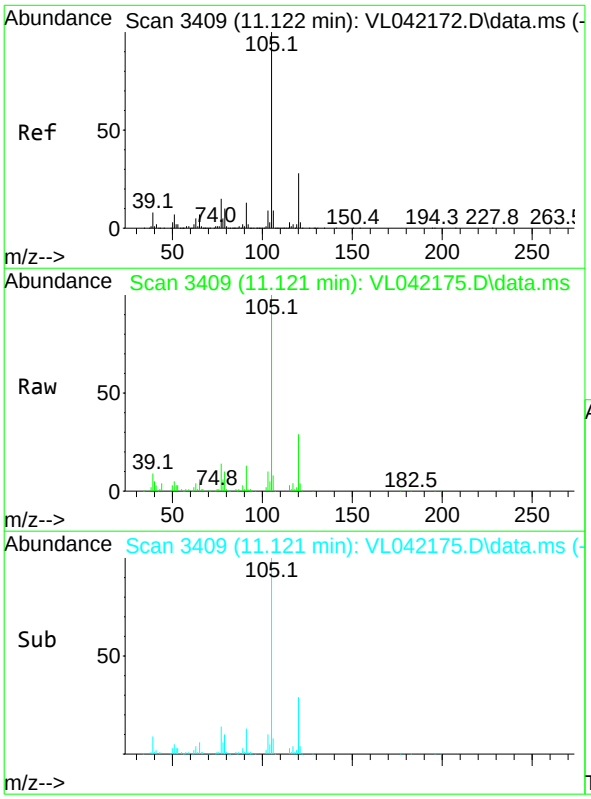
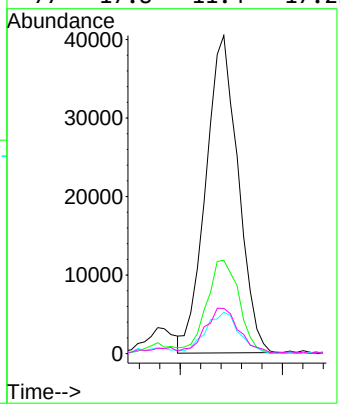
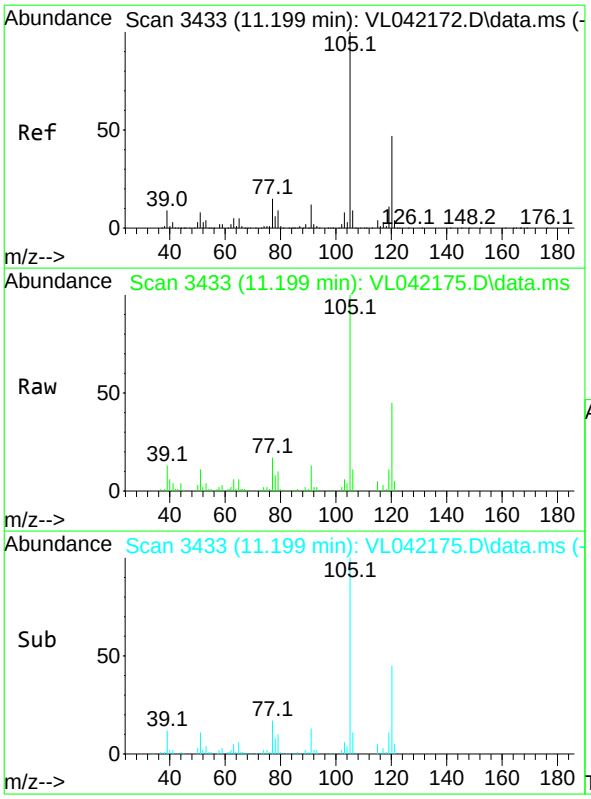



#72
4-Ethyltoluene
Concen: 0.518 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:105 Resp: 44473

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 32.3 | 23.4 | 35.0 |
| 91 | 14.9 | 10.3 | 15.5 |
| 77 | 17.8 | 11.4 | 17.2# |

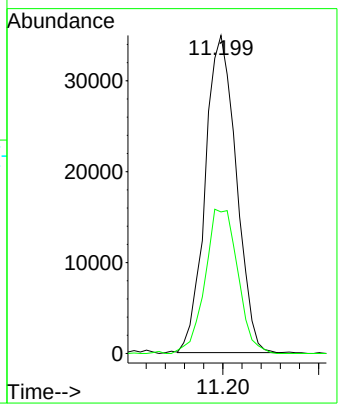





#73
1,3,5-Trimethylbenzene
Concen: 0.523 ppbv
RT: 11.199 min Scan# 34
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:105 Resp: 39190

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.6 | 37.4 | 56.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
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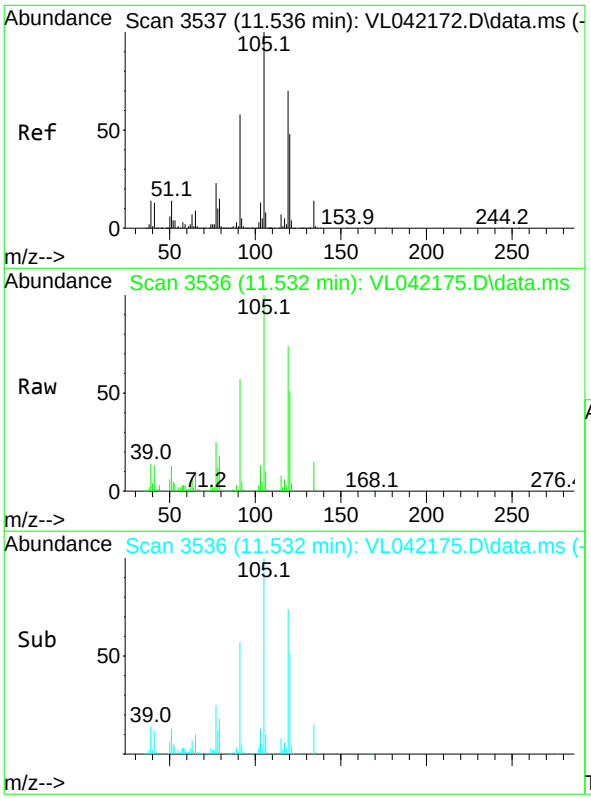
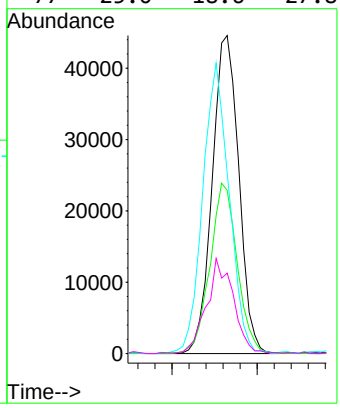
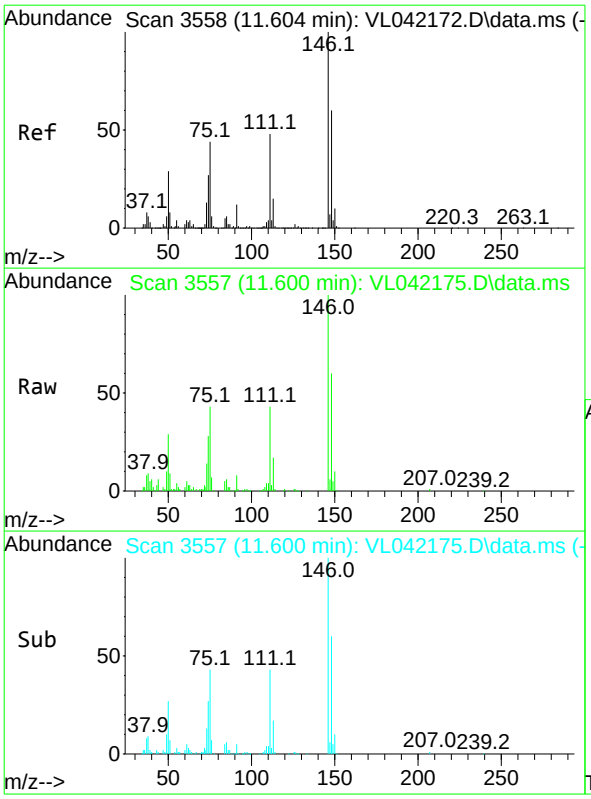



#74
1,2,4-Trimethylbenzene
Concen: 0.560 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:105 Resp: 48370

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 51.3 | 38.6 | 58.0 |
| 91 | 56.5 | 46.2 | 69.2 |
| 77 | 25.0 | 18.6 | 27.8 |

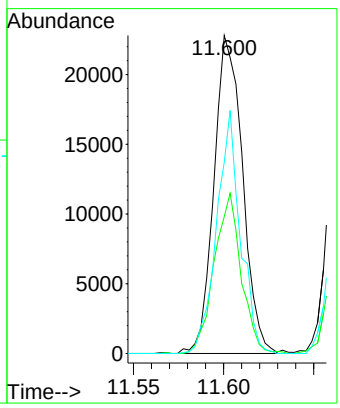





#75
1,3-Dichlorobenzene
Concen: 0.530 ppbv
RT: 11.600 min Scan# 35
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:146 Resp: 25122

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 47.5 | 23.8 | 71.2 |
| 148 | 63.7 | 31.9 | 95.9 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
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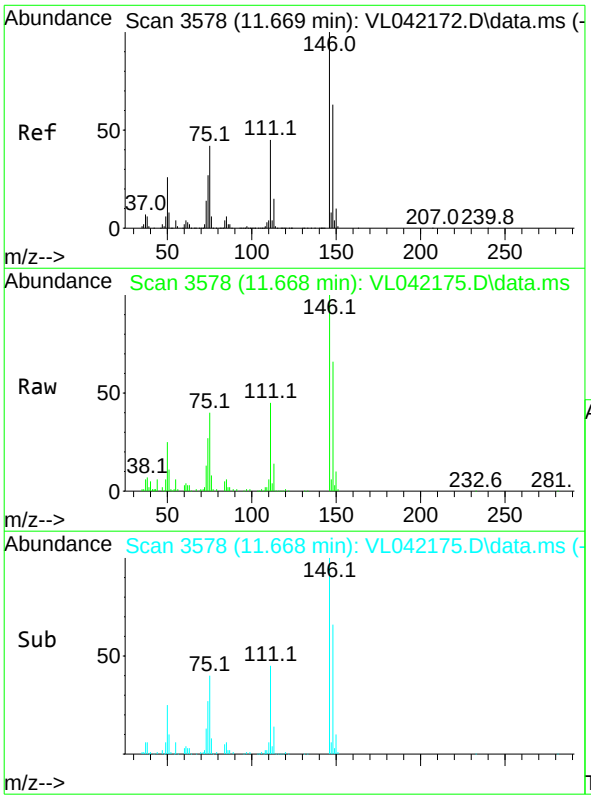
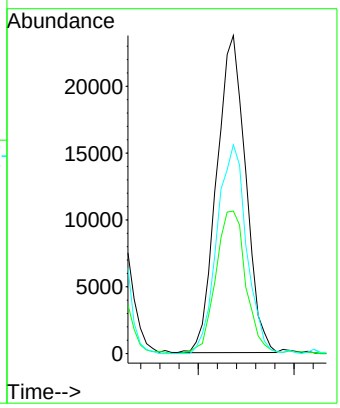
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

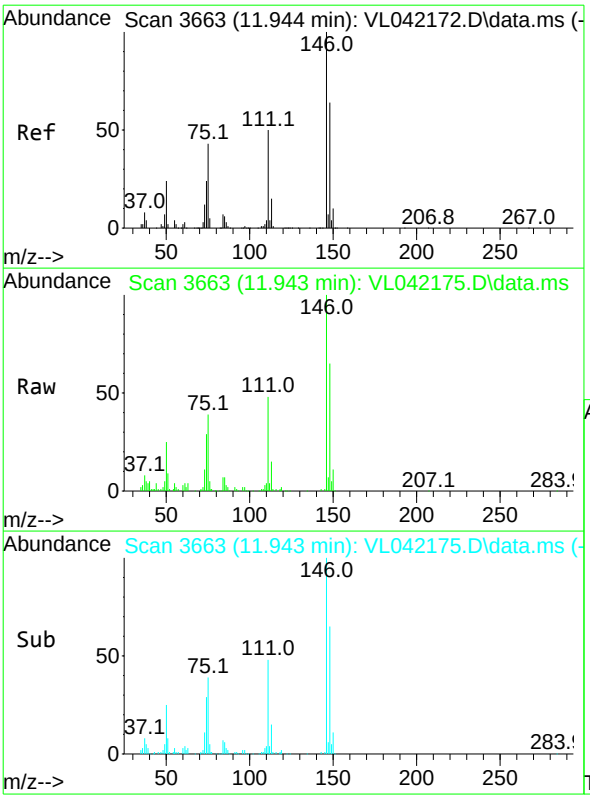



#76
1,4-Dichlorobenzene
Concen: 0.530 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:146 Resp: 24991

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 47.0 | 23.0 | 69.0 |
| 148 | 67.5 | 31.9 | 95.7 |

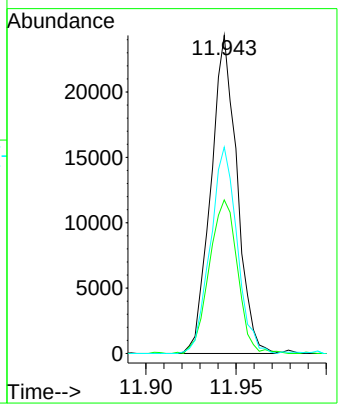





#77
1,2-Dichlorobenzene
Concen: 0.532 ppbv
RT: 11.943 min Scan# 36
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:146 Resp: 24548

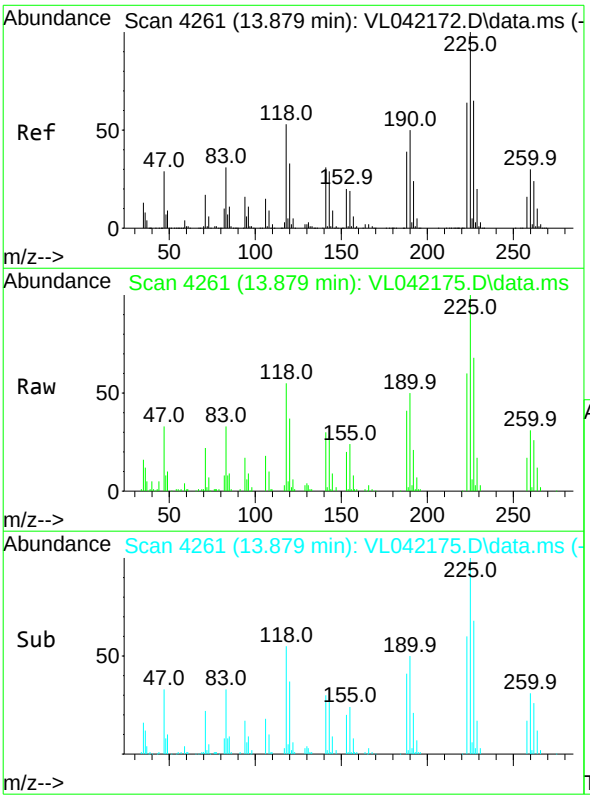
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 52.2 | 24.8 | 74.3 |
| 148 | 66.6 | 31.6 | 94.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations APPROVED**

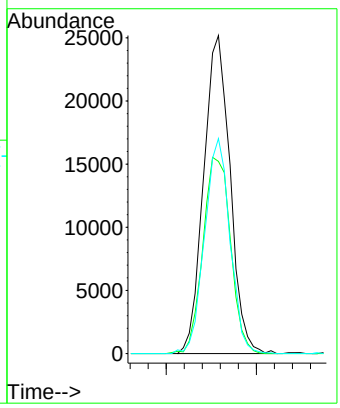
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

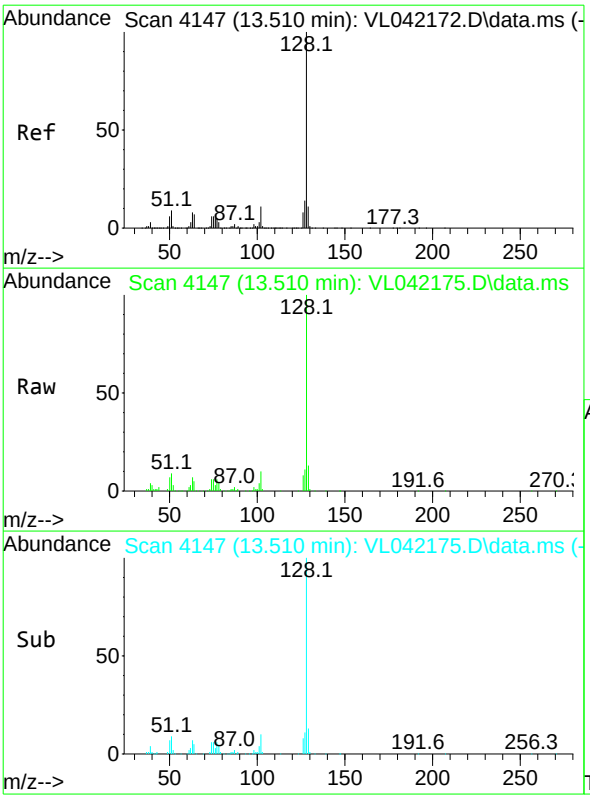



#78
Hexachloro-1,3-Butadiene
Concen: 0.546 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:225 Resp: 25636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 64.5 | 50.6 | 76.0 |
| 227 | 64.8 | 51.2 | 76.8 |

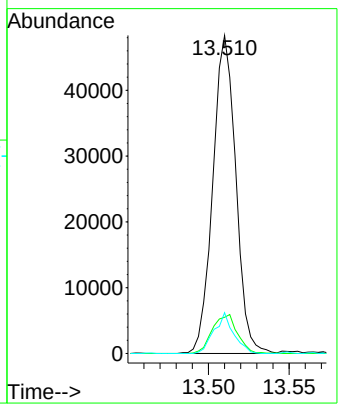





#79
Naphthalene
Concen: 0.508 ppbv
RT: 13.510 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:128 Resp: 47990

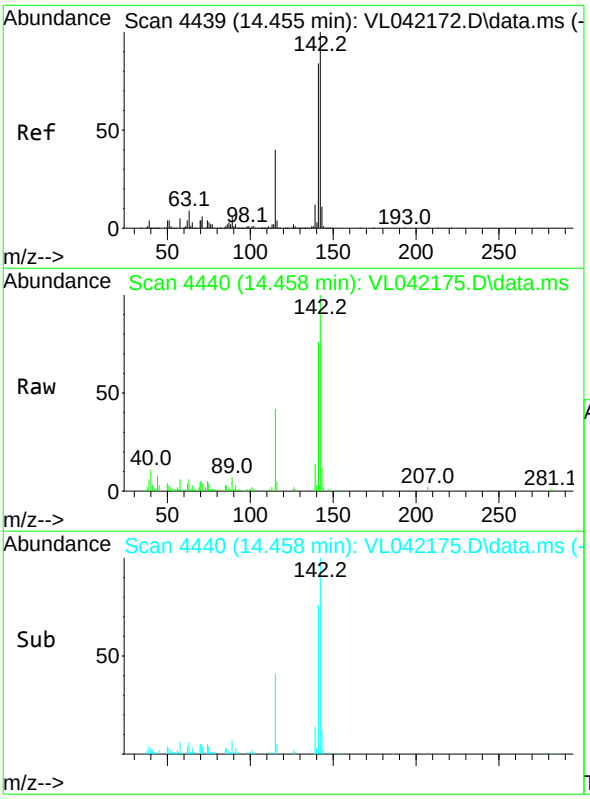
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 11.4 | 10.8 | 16.2 |
| 129 | 12.8 | 9.0 | 13.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
**APPROVED**

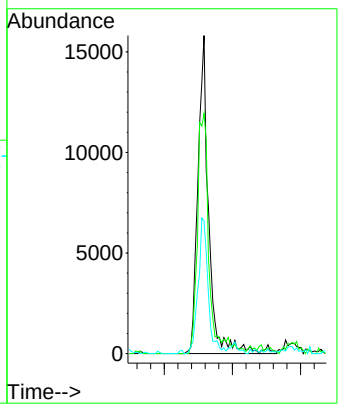
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

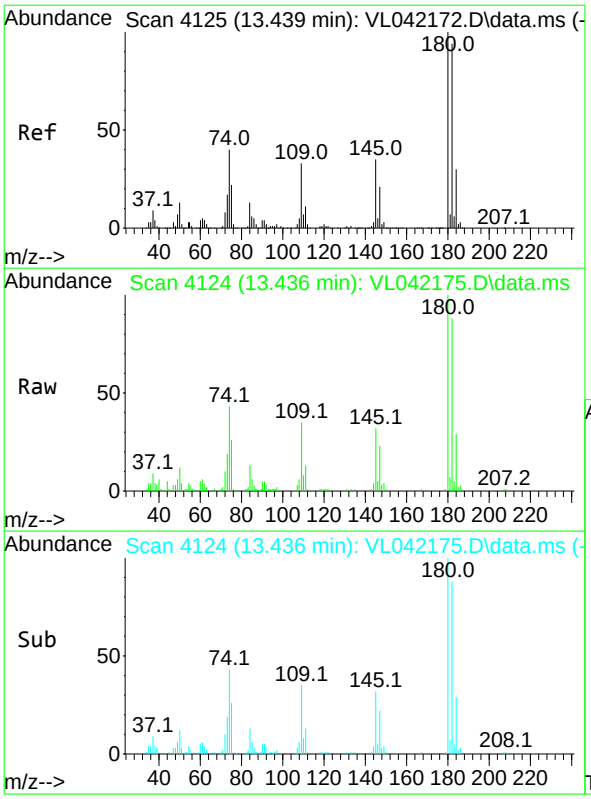



#80
Naphthalene,2-methyl-
Concen: 0.380 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:142 Resp: 17486

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 83.3 | 66.3 | 99.5 |
| 115 | 43.5 | 31.6 | 47.4 |

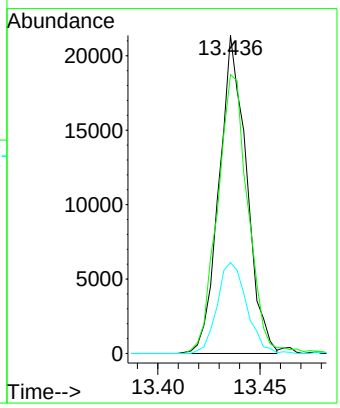





#81
1,2,4-Trichlorobenzene
Concen: 0.457 ppbv
RT: 13.436 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:180 Resp: 19924

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 97.9 | 75.1 | 112.7 |
| 184 | 31.1 | 24.4 | 36.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042176.D
Acq On : 27 Mar 2025 10:32
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 28 01:35:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.787 | 49 | 180740 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.955 | 114 | 528028 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.878 | 117 | 481506 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.374 | 95 | 398069 | 10.067 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 100.700% | | | |
| Target Compounds | | | | | | Qvalue |
| 5) Vinyl Chloride | 1.580 | 62 | 1274 | 0.115 | ppbv | # 42 |
| 32) 1,1,1-Trichloroethane | 3.366 | 97 | 4509m | 0.106 | ppbv | |
| 35) Carbon Tetrachloride | 3.768 | 117 | 4131m | 0.102 | ppbv | |
| 38) Trichloroethene | 4.551 | 130 | 2306m | 0.106 | ppbv | |
| 52) Tetrachloroethene | 8.225 | 164 | 1895m | 0.091 | ppbv | |
| 54) 1,2-Dibromoethane | 7.652 | 107 | 3033m | 0.108 | ppbv | |
| 63) 1,1,2,2-Tetrachloroethane | 9.966 | 83 | 3852m | 0.093 | ppbv | |
| 79) Naphthalene | 13.513 | 128 | 7882 | 0.084 | ppbv | # 92 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042176.D
Acq On : 27 Mar 2025 10:32
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 28 01:35:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 03/31/2025
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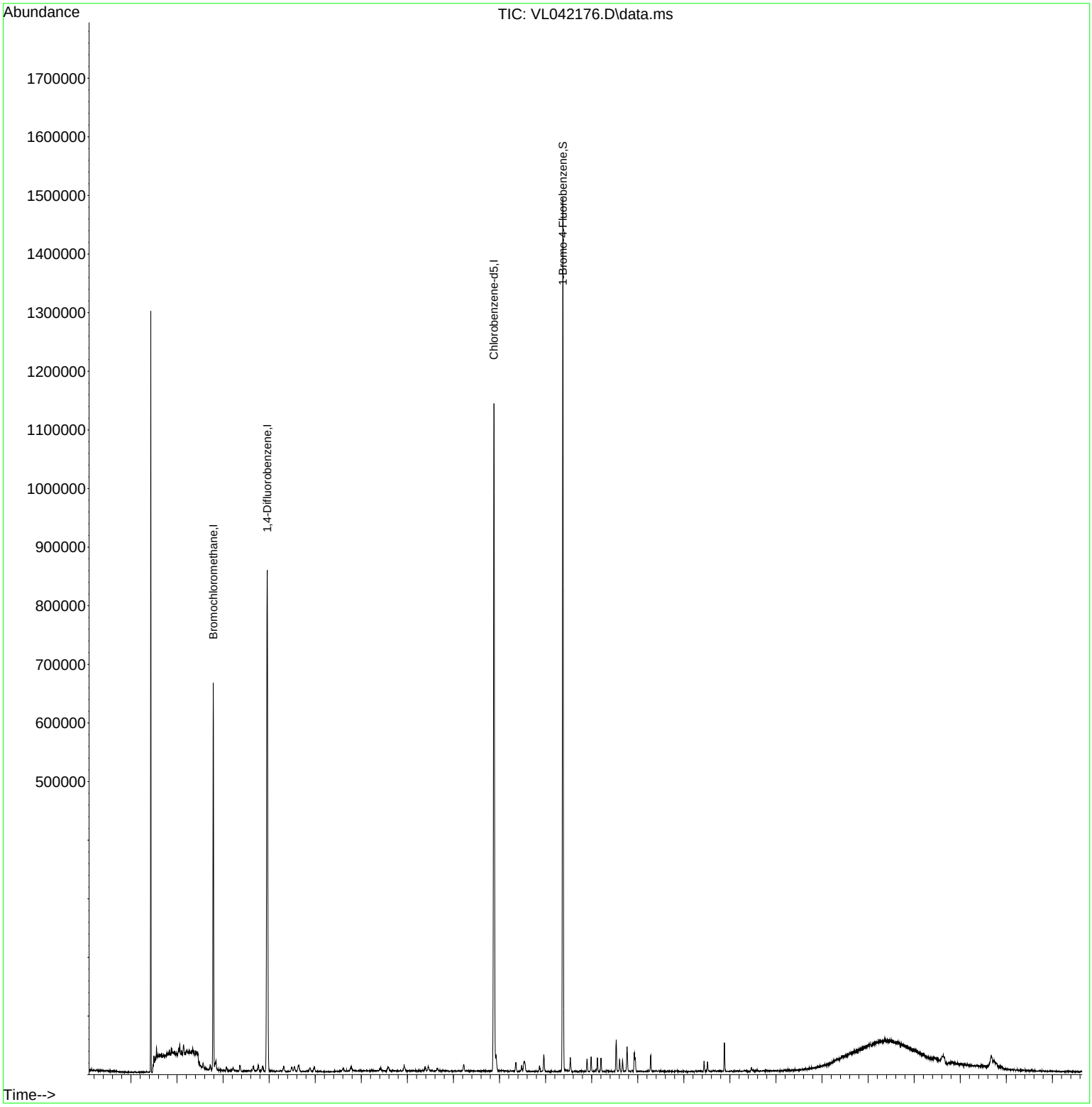
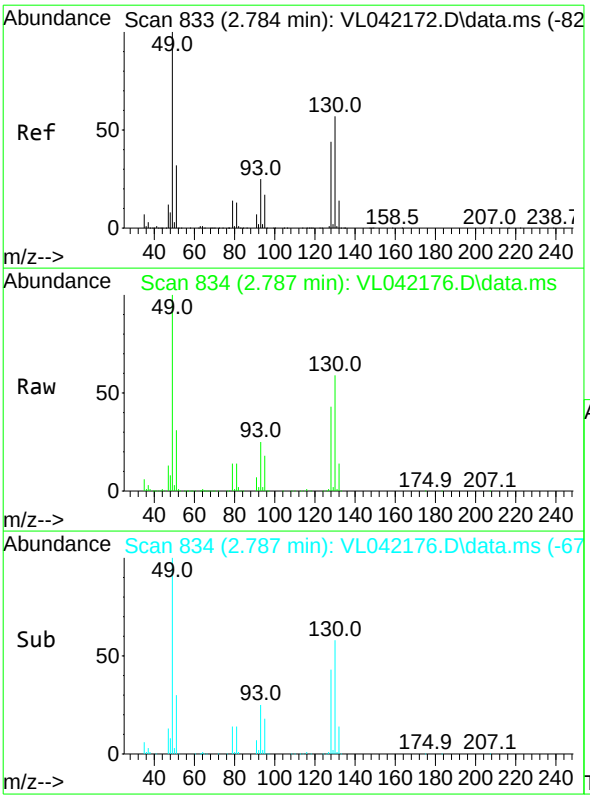
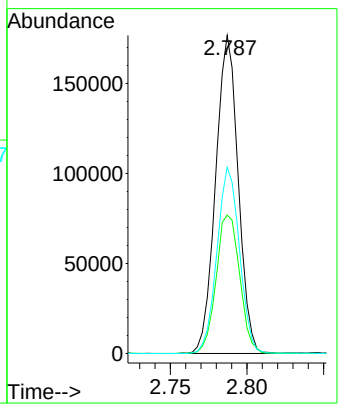





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 83
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 49 Resp: 180740

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 45.6 | 22.9 | 68.5 |
| 130 | 58.5 | 28.8 | 86.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 03/31/2025
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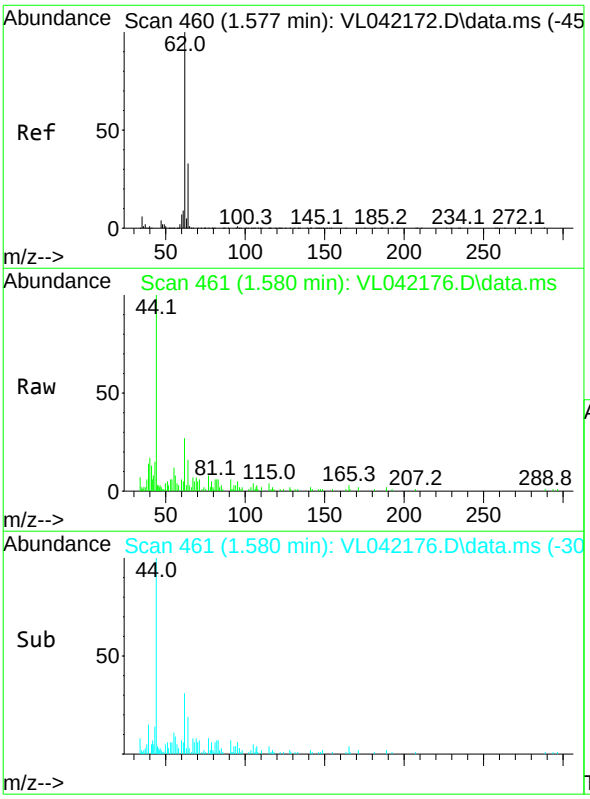
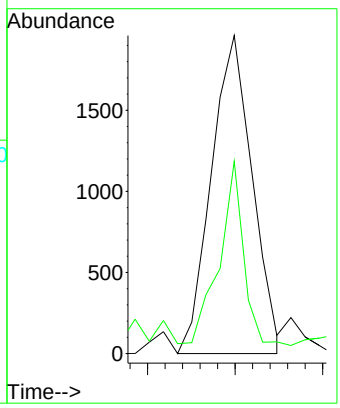
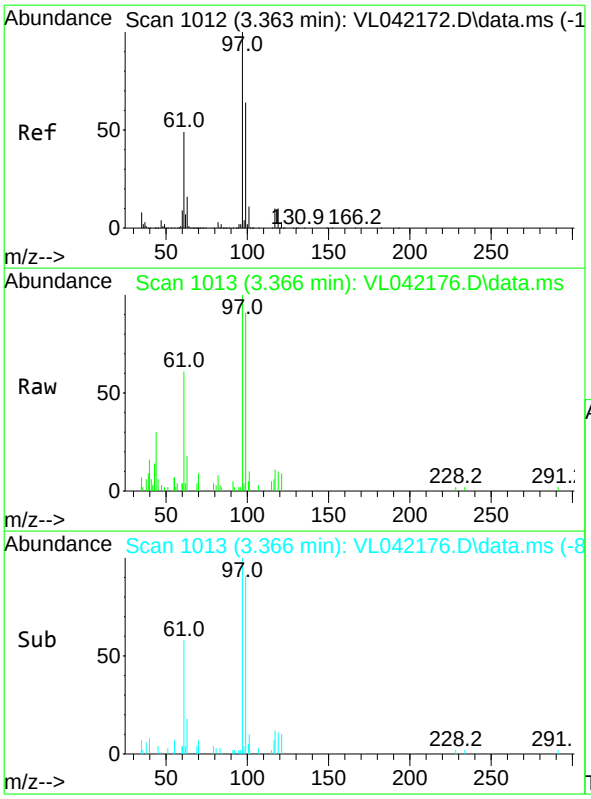



#5
Vinyl Chloride
Concen: 0.115 ppbv
RT: 1.580 min Scan# 461
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 62 Resp: 1274

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 66.4 | 26.6 | 40.0# |






#32
1,1,1-Trichloroethane
Concen: 0.106 ppbv m
RT: 3.366 min Scan# 10
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

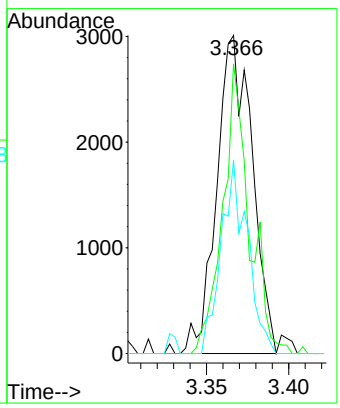
Tgt Ion: 97 Resp: 4509

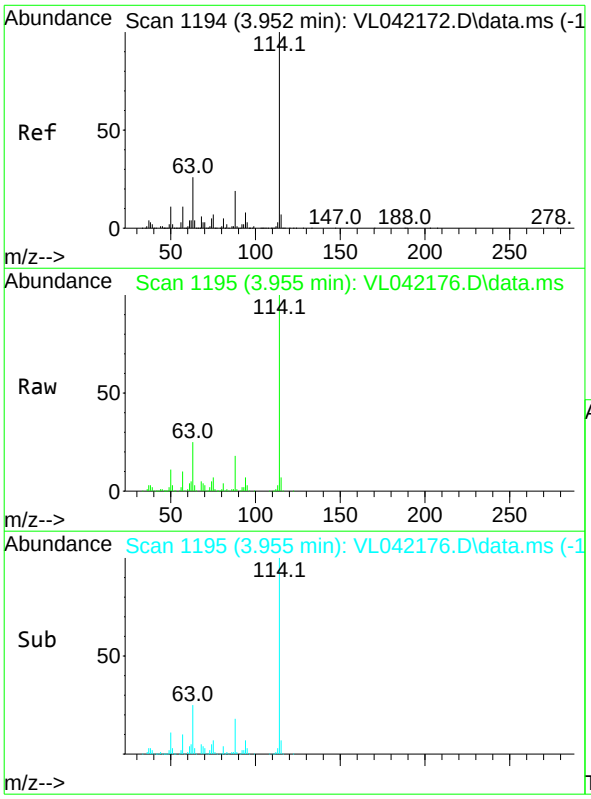
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 68.6 | 51.5 | 77.3 |
| 61 | 45.4 | 38.7 | 58.1 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

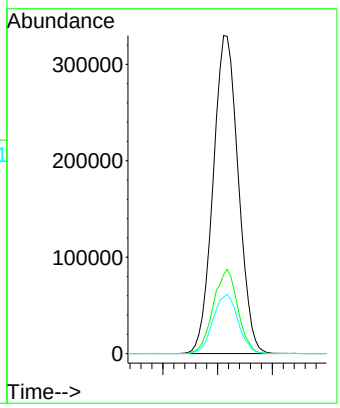


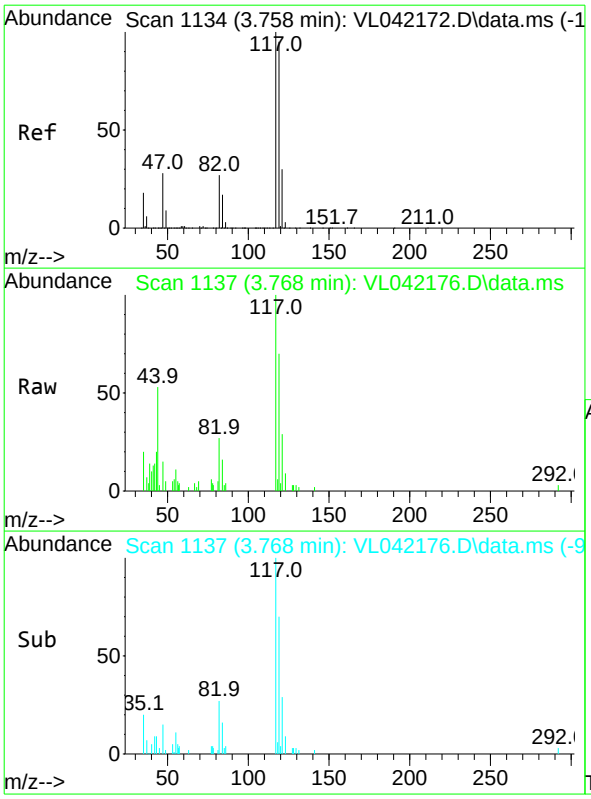




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion:114 Resp: 528028

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.8 | 20.7 | 31.1 |
| 88 | 18.5 | 15.0 | 22.4 |

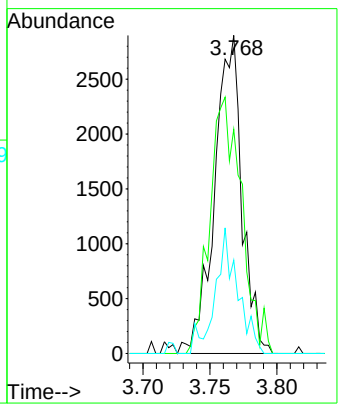





#35
Carbon Tetrachloride
Concen: 0.102 ppbv m
RT: 3.768 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion:117 Resp: 4131

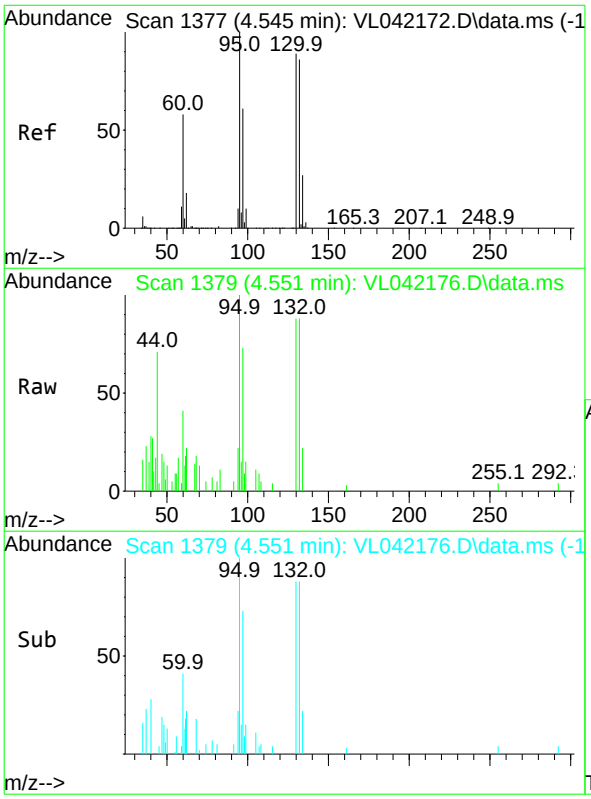
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 70.5 | 76.2 | 114.2# |
| 121 | 29.4 | 24.2 | 36.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

**Manual Integrations**
**APPROVED**

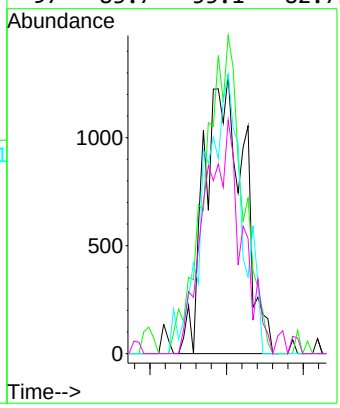
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

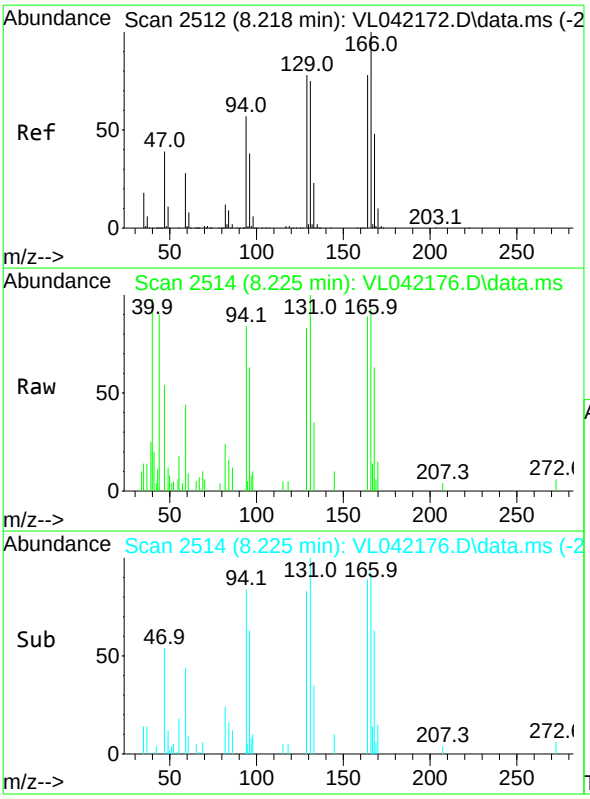



#38
Trichloroethene
Concen: 0.106 ppbv m
RT: 4.551 min Scan# 1379
Delta R.T. 0.006 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion:130 Resp: 2306

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 114.0 | 89.8 | 134.8 |
| 132 | 100.2 | 77.4 | 116.2 |
| 97 | 83.7 | 55.1 | 82.7# |

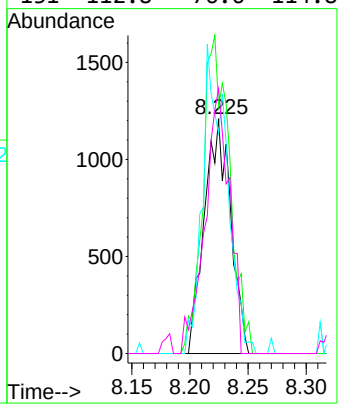





#52
Tetrachloroethene
Concen: 0.091 ppbv m
RT: 8.225 min Scan# 25
Delta R.T. 0.006 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion:164 Resp: 1895

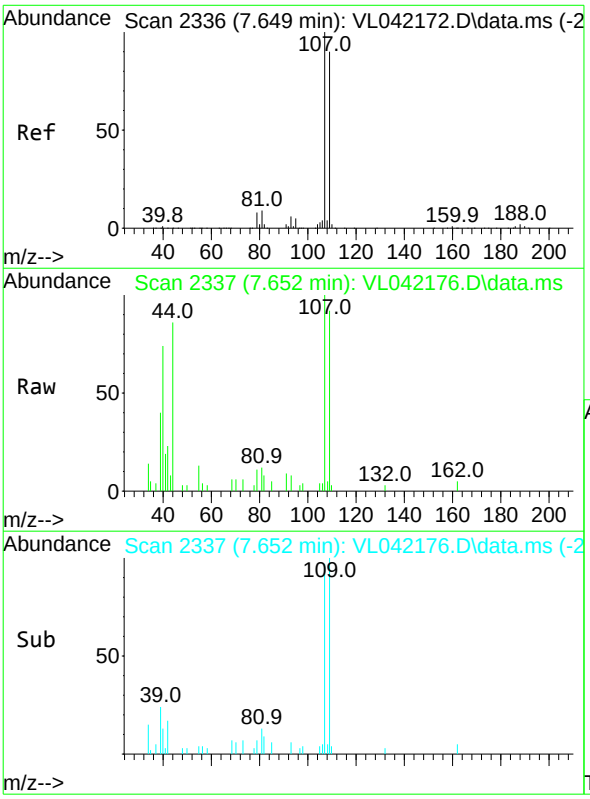
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 105.1 | 102.5 | 153.7 |
| 129 | 93.7 | 79.8 | 119.8 |
| 131 | 112.8 | 76.6 | 114.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

**Manual Integrations**
**APPROVED**

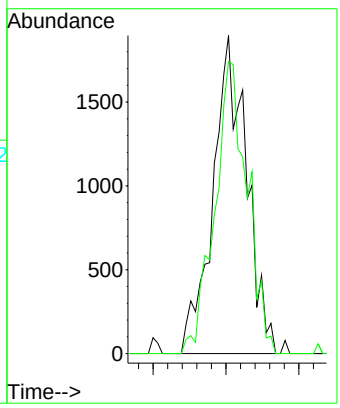
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

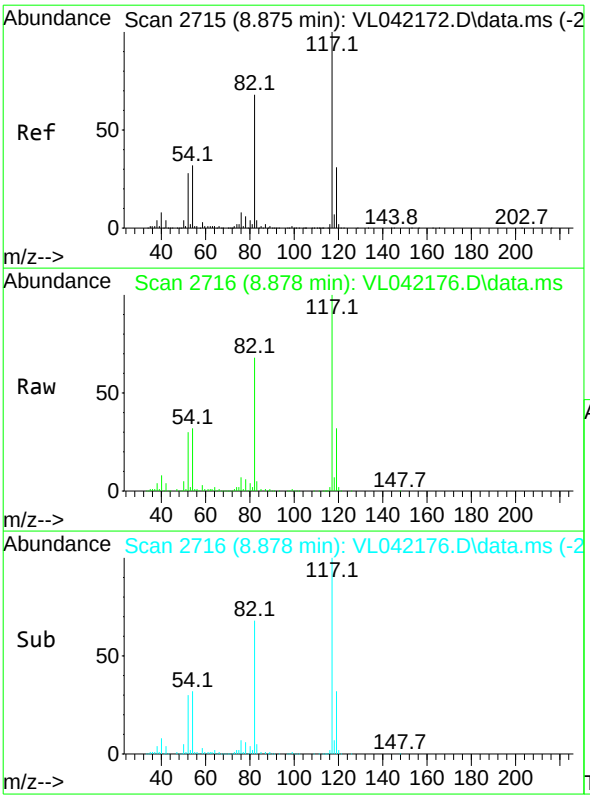



#54
1,2-Dibromoethane
Concen: 0.108 ppbv m
RT: 7.652 min Scan# 2337
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion:107 Resp: 3033

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 91.8 | 72.2 | 108.4 |

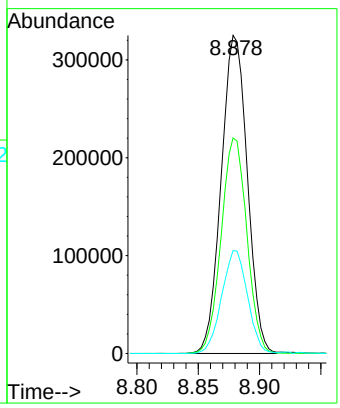





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 27
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion:117 Resp: 481506

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 66.7 | 55.8 | 83.6 |
| 119 | 32.3 | 25.5 | 38.3 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

**Manual Integrations**
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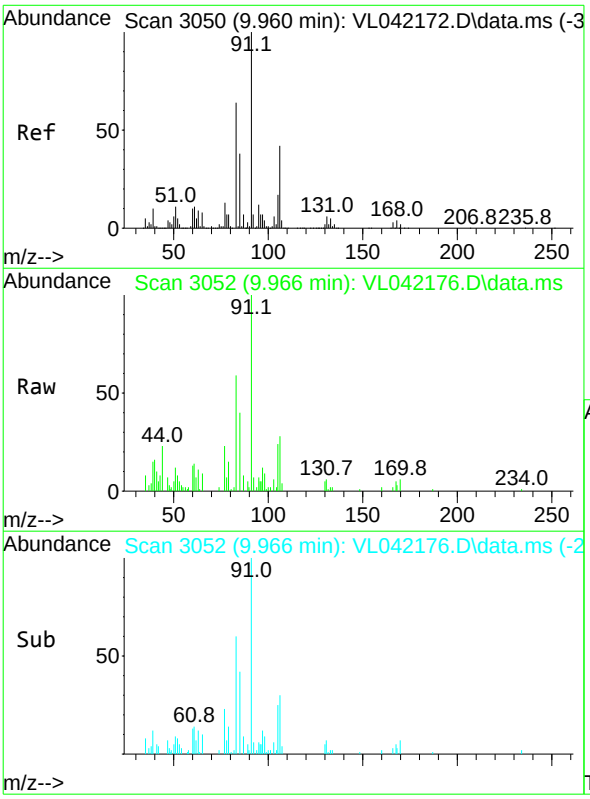
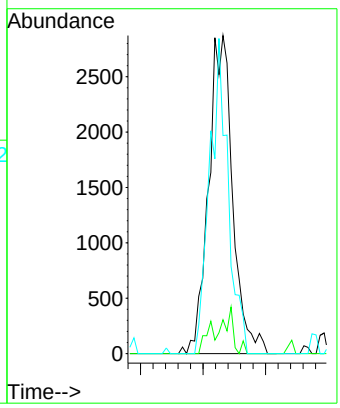
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

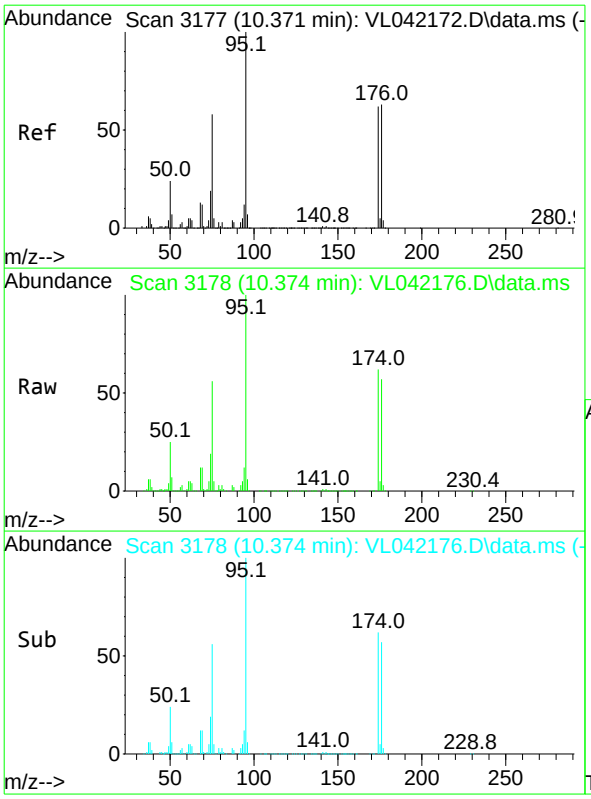



#63
1,1,2,2-Tetrachloroethane
Concen: 0.093 ppbv m
RT: 9.966 min Scan# 3052
Delta R.T. 0.006 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 83 Resp: 3852

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 0.0 | 4.8 | 14.4# |
| 85 | 0.0 | 32.5 | 97.5# |

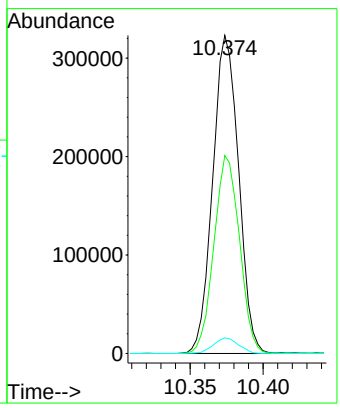





#68
1-Bromo-4-Fluorobenzene
Concen: 10.067 ppbv
RT: 10.374 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 95 Resp: 398069

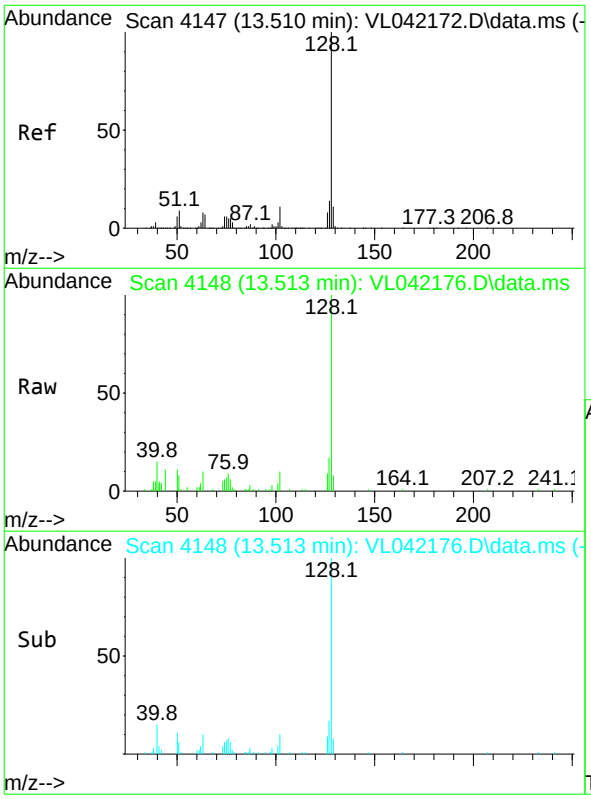
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 61.5 | 50.6 | 76.0 |
| 175 | 4.8 | 3.8 | 5.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

**Manual Integrations**
**APPROVED**

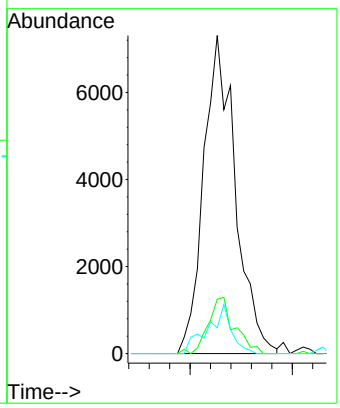
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025




#79
Naphthalene
Concen: 0.084 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion:128 Resp: 7882

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 17.1 | 10.8 | 16.2# |
| 129 | 8.1 | 9.0 | 13.4# |



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042177.D
Acq On : 27 Mar 2025 11:03
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 28 01:36:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.787 | 49 | 178058 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.955 | 114 | 512915 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.878 | 117 | 475617 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.374 | 95 | 389935 | 9.983 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 99.800% | | | |
| Target Compounds | | | | | | Qvalue |
| 5) Vinyl Chloride | 1.580 | 62 | 471m | 0.043 | ppbv | |
| 32) 1,1,1-Trichloroethane | 3.366 | 97 | 1683m | 0.040 | ppbv | |
| 35) Carbon Tetrachloride | 3.758 | 117 | 1645m | 0.042 | ppbv | |
| 38) Trichloroethene | 4.541 | 130 | 712m | 0.034 | ppbv | |
| 52) Tetrachloroethene | 8.208 | 164 | 880m | 0.044 | ppbv | |
| 63) 1,1,2,2-Tetrachloroethane | 9.963 | 83 | 1407m | 0.034 | ppbv | |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

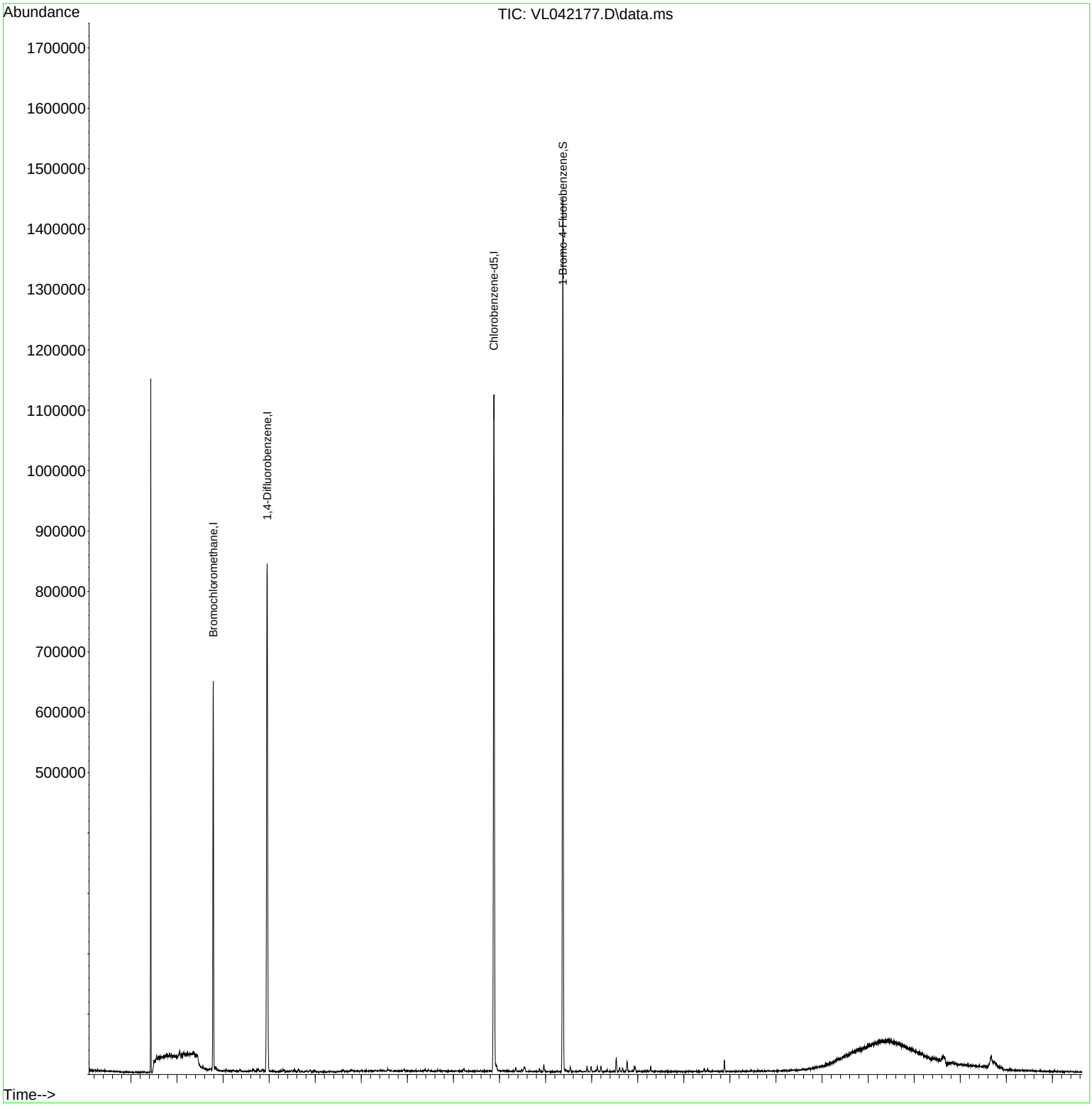
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042177.D
Acq On : 27 Mar 2025 11:03
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

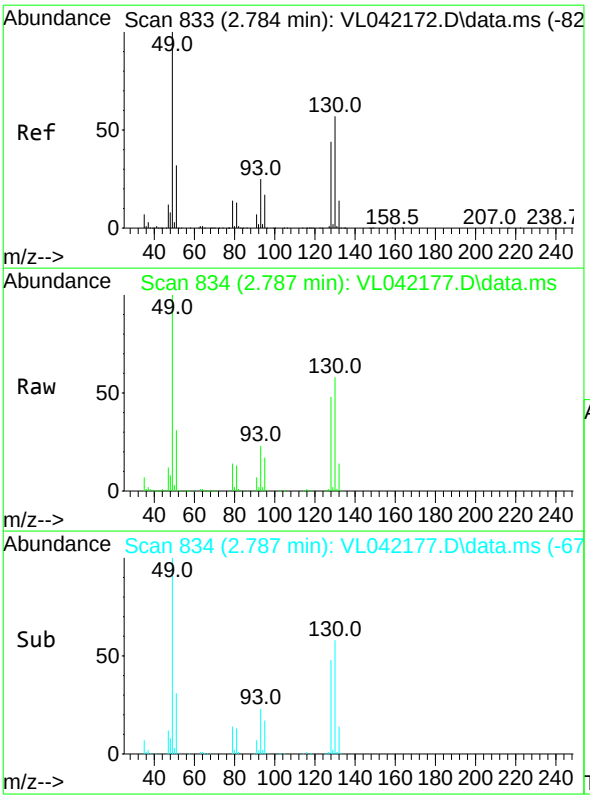
Quant Time: Mar 28 01:36:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

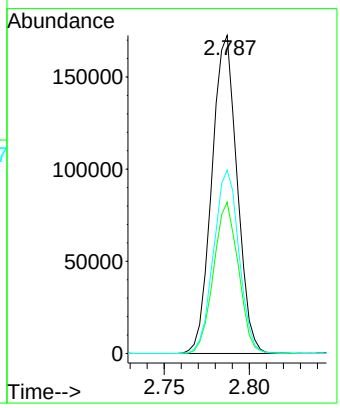





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 83
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion: 49 Resp: 178058

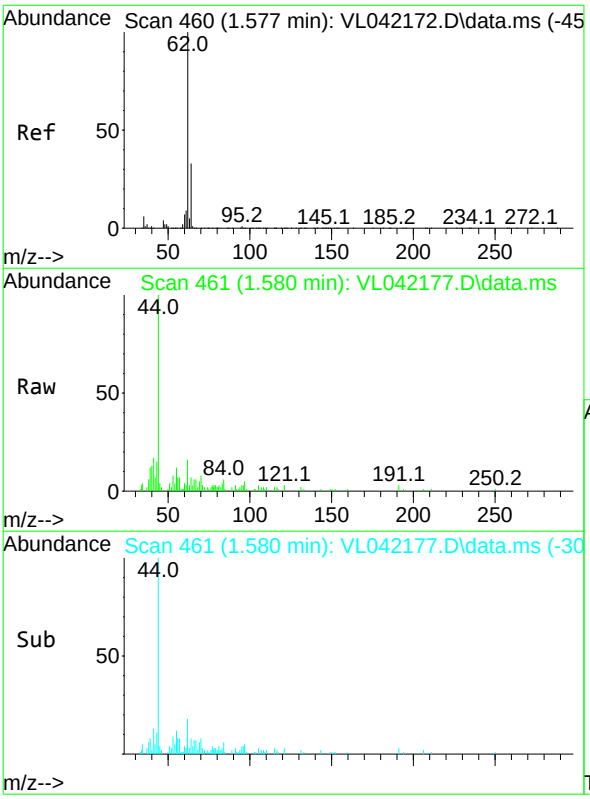
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 46.8 | 22.9 | 68.5 |
| 130 | 57.9 | 28.8 | 86.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

**Manual Integrations**
**APPROVED**

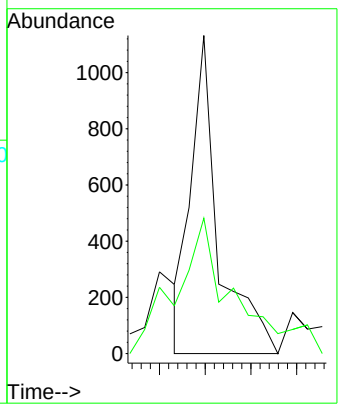
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

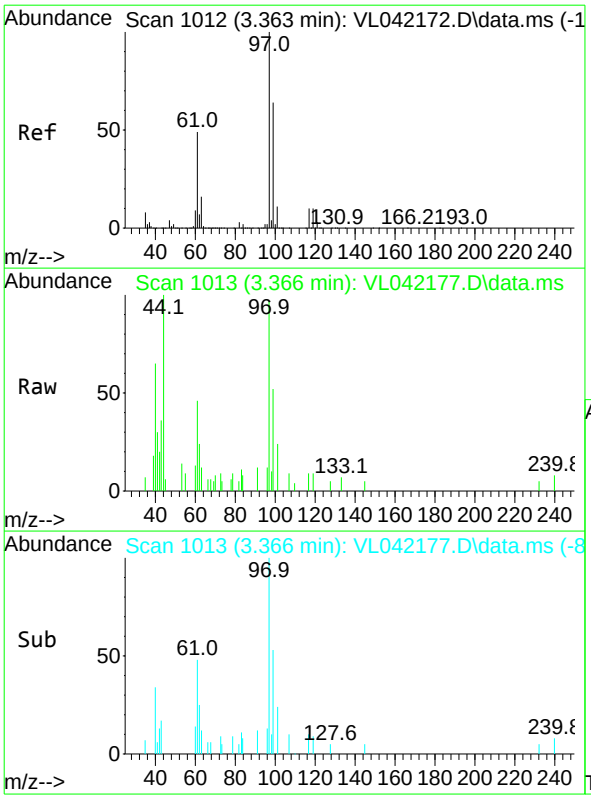



#5
Vinyl Chloride
Concen: 0.043 ppbv m
RT: 1.580 min Scan# 461
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion: 62 Resp: 471

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 42.6 | 26.6 | 40.0# |

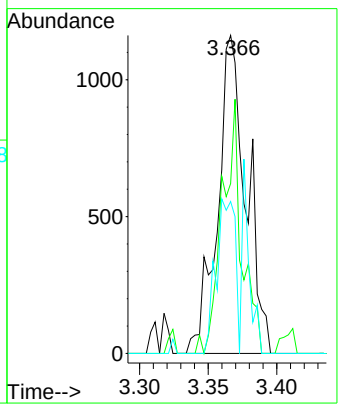





#32
1,1,1-Trichloroethane
Concen: 0.040 ppbv m
RT: 3.366 min Scan# 10
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion: 97 Resp: 1683

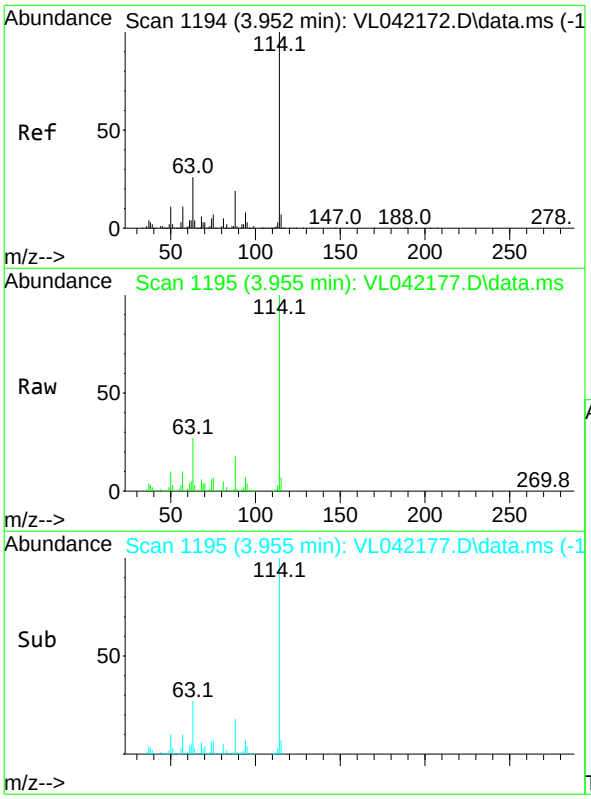
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 3.8 | 51.5 | 77.3# |
| 61 | 2.1 | 38.7 | 58.1# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

**Manual Integrations**
**APPROVED**

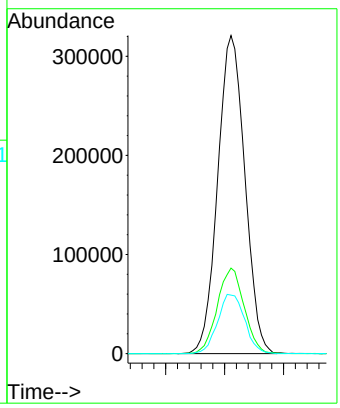
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

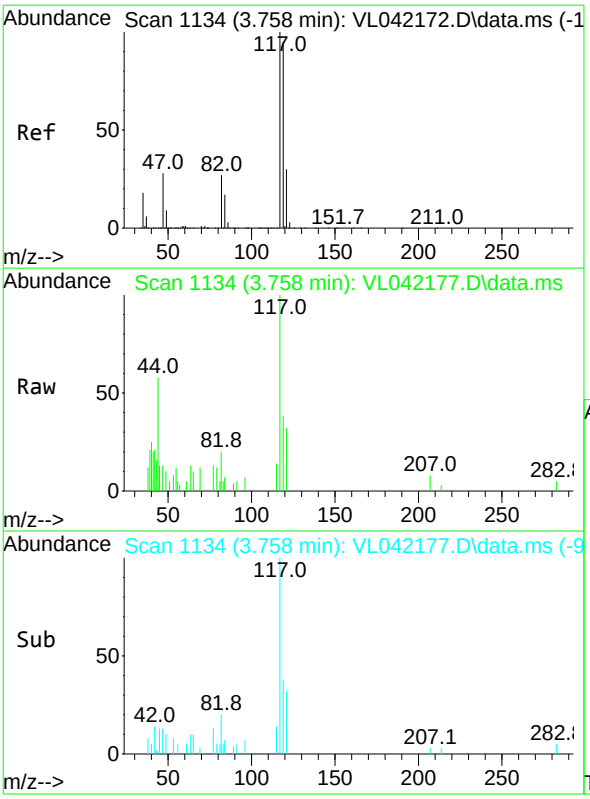



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion:114 Resp: 512915

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 26.6 | 20.7 | 31.1 |
| 88 | 18.6 | 15.0 | 22.4 |

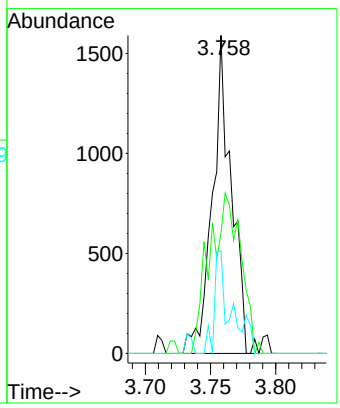





#35
Carbon Tetrachloride
Concen: 0.042 ppbv m
RT: 3.758 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion:117 Resp: 1645

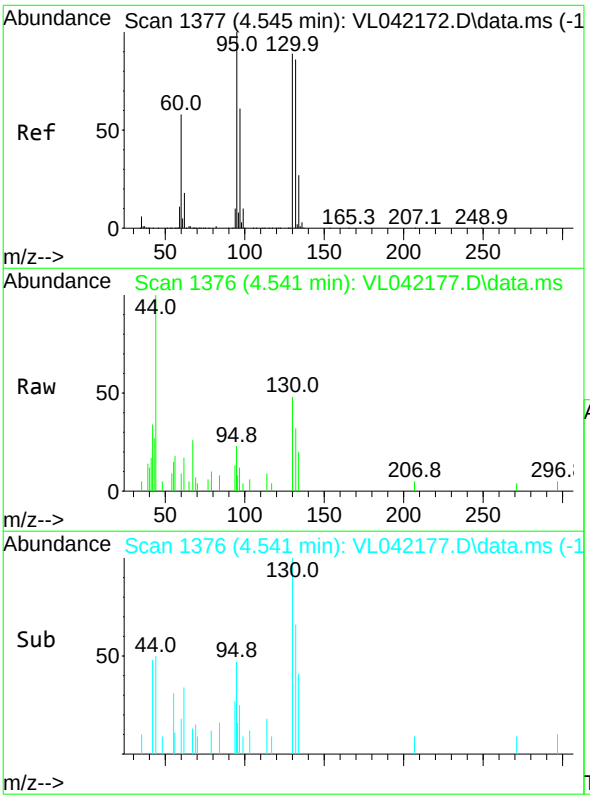
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 37.7 | 76.2 | 114.2# |
| 121 | 32.3 | 24.2 | 36.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

**Manual Integrations**
**APPROVED**

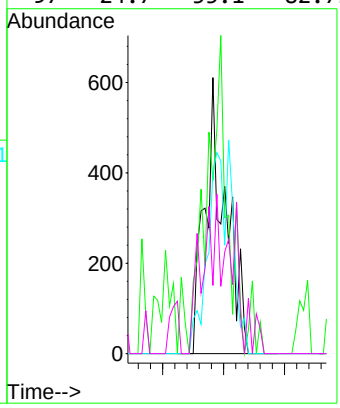
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

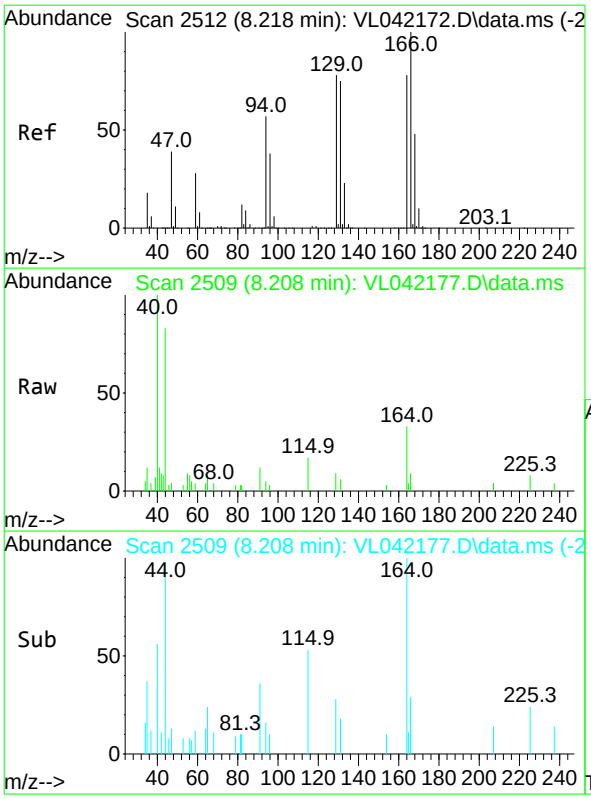



#38
Trichloroethene
Concen: 0.034 ppbv m
RT: 4.541 min Scan# 1376
Delta R.T. -0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion:130 Resp: 712

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 47.0 | 89.8 | 134.8# |
| 132 | 65.6 | 77.4 | 116.2# |
| 97 | 24.7 | 55.1 | 82.7# |

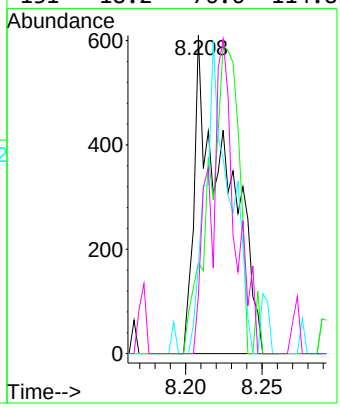





#52
Tetrachloroethene
Concen: 0.044 ppbv m
RT: 8.208 min Scan# 25
Delta R.T. -0.010 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion:164 Resp: 880

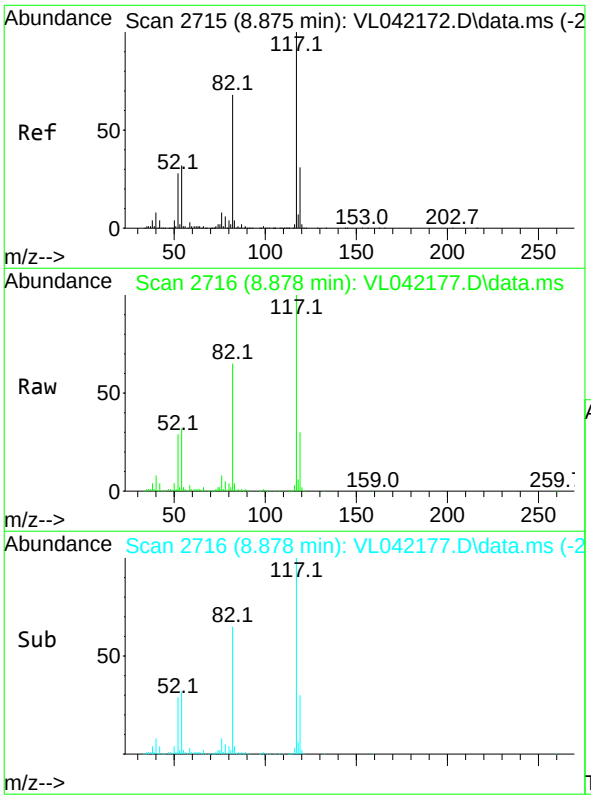
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 28.5 | 102.5 | 153.7# |
| 129 | 27.7 | 79.8 | 119.8# |
| 131 | 18.2 | 76.6 | 114.8# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

**Manual Integrations**
**APPROVED**

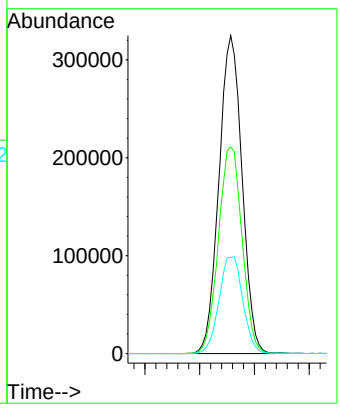
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

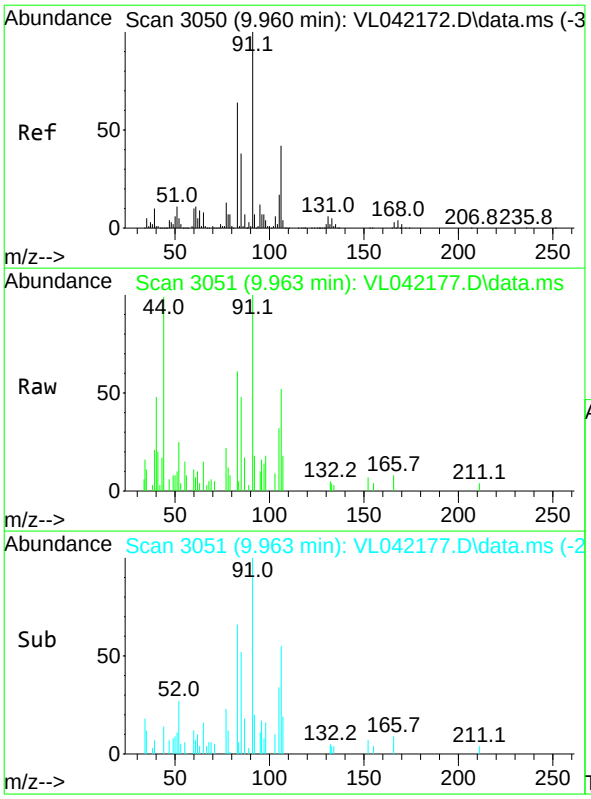



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion:117 Resp: 475617

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 66.7 | 55.8 | 83.6 |
| 119 | 31.5 | 25.5 | 38.3 |






#63
1,1,2,2-Tetrachloroethane
Concen: 0.034 ppbv m
RT: 9.963 min Scan# 30
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

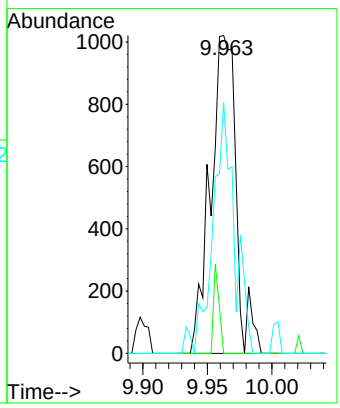
Tgt Ion: 83 Resp: 1407

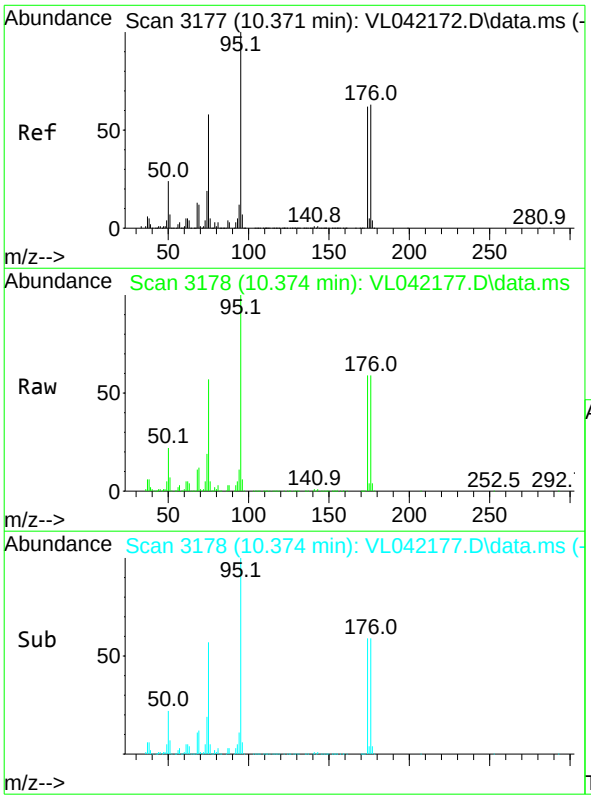
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 6.0 | 4.8 | 14.4 |
| 85 | 67.2 | 32.5 | 97.5 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

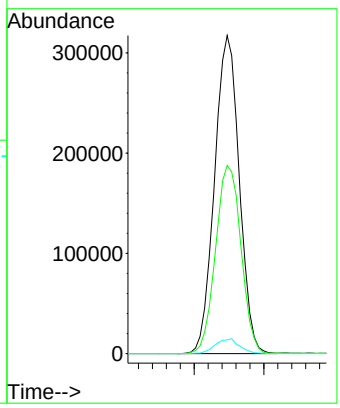



#68
1-Bromo-4-Fluorobenzene
Concen: 9.983 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion: 95 Resp: 389935

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 61.2 | 50.6 | 76.0 |
| 175 | 4.6 | 3.8 | 5.6 |



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042178.D
Acq On : 27 Mar 2025 11:36
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 28 01:37:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 2.784 | 49 | 173372 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.952 | 114 | 499360 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.878 | 117 | 473077 | 10.000 | ppbv | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.374 | 95 | 387777 | 9.981 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 99.800% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.495 | 85 | 358962 | 14.023 | ppbv | | 99 |
| 3) Chlorodifluoromethane | 1.473 | 51 | 366164 | 14.002 | ppbv | | 98 |
| 4) Chloromethane | 1.531 | 50 | 148133 | 14.160 | ppbv | | 98 |
| 5) Vinyl Chloride | 1.576 | 62 | 141938 | 13.304 | ppbv | | 97 |
| 6) Bromomethane | 1.667 | 94 | 65113 | 13.734 | ppbv | | 99 |
| 7) Chloroethane | 1.703 | 64 | 58820 | 14.007 | ppbv | | 99 |
| 8) Dichlorotetrafluoroethane | 1.550 | 85 | 314834 | 14.442 | ppbv | | 98 |
| 9) Propene | 1.482 | 41 | 163799 | 13.902 | ppbv | | 95 |
| 10) Heptane | 4.972 | 43 | 446949 | 14.019 | ppbv | | 99 |
| 11) Trichlorofluoromethane | 1.874 | 101 | 349967 | 14.050 | ppbv | | 98 |
| 12) 1,1,2-Trichlorotrifluo... | 2.136 | 101 | 295217 | 14.419 | ppbv | | 99 |
| 13) Ethanol | 1.719 | 45 | 7382 | 8.001 | ppbv | | 92 |
| 14) Bromoethene | 1.780 | 108 | 106436 | 13.571 | ppbv | | 98 |
| 15) Acetone | 1.832 | 43 | 296254 | 12.218 | ppbv | | 98 |
| 16) 1,3-Butadiene | 1.605 | 39 | 150122 | 13.766 | ppbv | | 100 |
| 17) tert-Butyl alcohol | 2.039 | 59 | 416362 | 13.787 | ppbv | | 99 |
| 18) 1,1-Dichloroethene | 2.029 | 96 | 131720 | 13.762 | ppbv | | 99 |
| 19) Isopropyl Alcohol | 1.884 | 45 | 179117 | 13.093 | ppbv | | 100 |
| 20) Methylene Chloride | 2.059 | 84 | 113183 | 12.533 | ppbv | | 95 |
| 21) Allyl Chloride | 2.094 | 41 | 239440 | 14.002 | ppbv | | 99 |
| 22) trans-1,2-Dichloroethene | 2.337 | 96 | 149455 | 13.362 | ppbv | | 98 |
| 23) Vinyl Acetate | 2.460 | 43 | 138419 | 13.736 | ppbv | # | 96 |
| 24) 1,1-Dichloroethane | 2.405 | 63 | 298760 | 14.570 | ppbv | | 99 |
| 25) Ethyl Acetate | 2.832 | 43 | 871882 | 13.855 | ppbv | | 100 |
| 26) Hexane | 2.822 | 57 | 344636 | 14.178 | ppbv | | 98 |
| 27) Carbon Disulfide | 2.146 | 76 | 370022 | 14.196 | ppbv | | 97 |
| 28) Methyl tert-Butyl Ether | 2.437 | 73 | 216463 | 14.303 | ppbv | | 95 |
| 29) Chloroform | 2.845 | 83 | 508614 | 14.297 | ppbv | | 100 |
| 30) Cyclohexane | 3.852 | 84 | 296458 | 14.040 | ppbv | | 99 |
| 31) cis-1,2-Dichloroethene | 2.719 | 61 | 351945 | 14.262 | ppbv | | 97 |
| 32) 1,1,1-Trichloroethane | 3.363 | 97 | 547329 | 13.448 | ppbv | | 99 |
| 34) 2-Butanone | 2.554 | 43 | 497020 | 13.726 | ppbv | | 99 |
| 35) Carbon Tetrachloride | 3.758 | 117 | 543385 | 14.140 | ppbv | | 100 |
| 36) Benzene | 3.651 | 78 | 699549 | 14.131 | ppbv | | 98 |
| 37) 1,2-Dichloroethane | 3.214 | 62 | 416544 | 14.697 | ppbv | | 99 |
| 38) Trichloroethene | 4.541 | 130 | 283430 | 13.715 | ppbv | | 98 |
| 39) 1,2-Dichloropropane | 4.308 | 63 | 257891 | 14.304 | ppbv | | 99 |
| 40) 1,4-Dioxane | 4.577 | 88 | 124925 | 13.354 | ppbv | # | 91 |
| 41) Tetrahydrofuran | 3.049 | 42 | 294634 | 14.301 | ppbv | | 100 |
| 42) Bromodichloromethane | 4.483 | 83 | 587772 | 15.043 | ppbv | | 99 |
| 43) Methyl Methacrylate | 4.874 | 69 | 295300 | 14.130 | ppbv | | 99 |
| 44) 2,2,4-Trimethylpentane | 4.635 | 57 | 1180275 | 14.108 | ppbv | | 99 |
| 45) t-1,3-Dichloropropene | 6.405 | 75 | 329360 | 14.649 | ppbv | | 96 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042178.D
Acq On : 27 Mar 2025 11:36
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 28 01:37:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.593 | 75 | 400813 | 14.542 | ppbv | | 98 |
| 47) 1,1,2-Trichloroethane | 6.577 | 97 | 273137 | 14.331 | ppbv | | 98 |
| 48) Dibromochloromethane | 7.383 | 129 | 482431 | 14.936 | ppbv | | 100 |
| 49) Bromoform | 9.480 | 173 | 427143 | 14.730 | ppbv | | 99 |
| 50) 4-Methyl-2-Pentanone | 5.745 | 43 | 755146 | 13.155 | ppbv | | 99 |
| 51) 2-Hexanone | 7.431 | 43 | 619419 | 13.005 | ppbv | # | 99 |
| 52) Tetrachloroethene | 8.221 | 164 | 258356 | 13.159 | ppbv | | 95 |
| 53) Toluene | 6.926 | 91 | 829648 | 14.137 | ppbv | | 100 |
| 54) 1,2-Dibromoethane | 7.645 | 107 | 381823 | 14.359 | ppbv | | 97 |
| 56) 1,1,1,2-Tetrachloroethane | 8.920 | 131 | 365410 | 14.032 | ppbv | | 99 |
| 57) Chlorobenzene | 8.917 | 112 | 618201 | 13.777 | ppbv | | 100 |
| 58) Ethyl Benzene | 9.351 | 91 | 1167096 | 13.889 | ppbv | | 97 |
| 59) m/p-Xylene | 9.548 | 91 | 1857561m | 27.651 | ppbv | | |
| 60) o-Xylene | 9.962 | 91 | 913234 | 13.577 | ppbv | | 99 |
| 61) Styrene | 9.865 | 104 | 474195 | 14.250 | ppbv | | 99 |
| 62) Isopropylbenzene | 10.535 | 105 | 1362416 | 13.544 | ppbv | | 99 |
| 63) 1,1,2,2-Tetrachloroethane | 9.959 | 83 | 551386 | 13.491 | ppbv | | 99 |
| 64) n-propylbenzene | 10.985 | 120 | 356118 | 13.753 | ppbv | | 94 |
| 65) tert-Butylbenzene | 11.529 | 119 | 1200149 | 12.901 | ppbv | | 98 |
| 66) Benzyl Chloride | 11.613 | 91 | 134397 | 13.615 | ppbv | | 100 |
| 67) sec-Butylbenzene | 11.765 | 105 | 1643629 | 12.711 | ppbv | | 99 |
| 69) p-Isopropyltoluene | 11.924 | 119 | 1437016 | 12.906 | ppbv | | 98 |
| 70) n-Butylbenzene | 12.280 | 91 | 1477443 | 12.975 | ppbv | | 99 |
| 71) 2-Chlorotoluene | 10.898 | 91 | 1071432 | 13.724 | ppbv | | 99 |
| 72) 4-Ethyltoluene | 11.121 | 105 | 1136415 | 13.569 | ppbv | | 99 |
| 73) 1,3,5-Trimethylbenzene | 11.202 | 105 | 979783 | 13.395 | ppbv | | 99 |
| 74) 1,2,4-Trimethylbenzene | 11.535 | 105 | 1048874 | 12.447 | ppbv | | 92 |
| 75) 1,3-Dichlorobenzene | 11.607 | 146 | 626015 | 13.545 | ppbv | | 99 |
| 76) 1,4-Dichlorobenzene | 11.668 | 146 | 628694 | 13.668 | ppbv | | 100 |
| 77) 1,2-Dichlorobenzene | 11.947 | 146 | 602844 | 13.396 | ppbv | | 100 |
| 78) Hexachloro-1,3-Butadiene | 13.882 | 225 | 556392 | 12.147 | ppbv | | 99 |
| 79) Naphthalene | 13.513 | 128 | 1258479 | 13.653 | ppbv | | 98 |
| 80) Naphthalene,2-methyl- | 14.455 | 142 | 718900 | 16.018 | ppbv | | 98 |
| 81) 1,2,4-Trichlorobenzene | 13.439 | 180 | 598416 | 14.075 | ppbv | | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

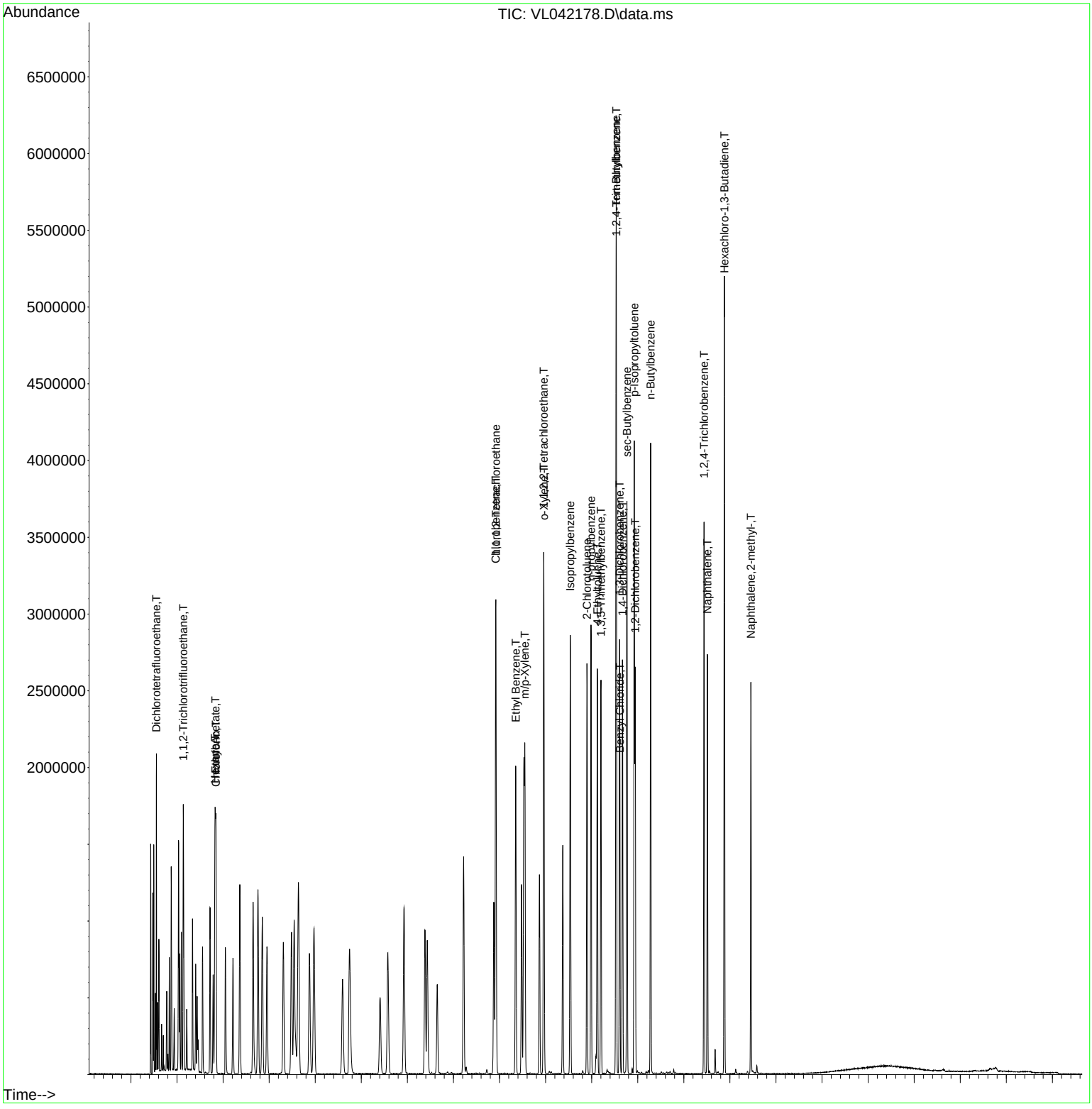
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042178.D
Acq On : 27 Mar 2025 11:36
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

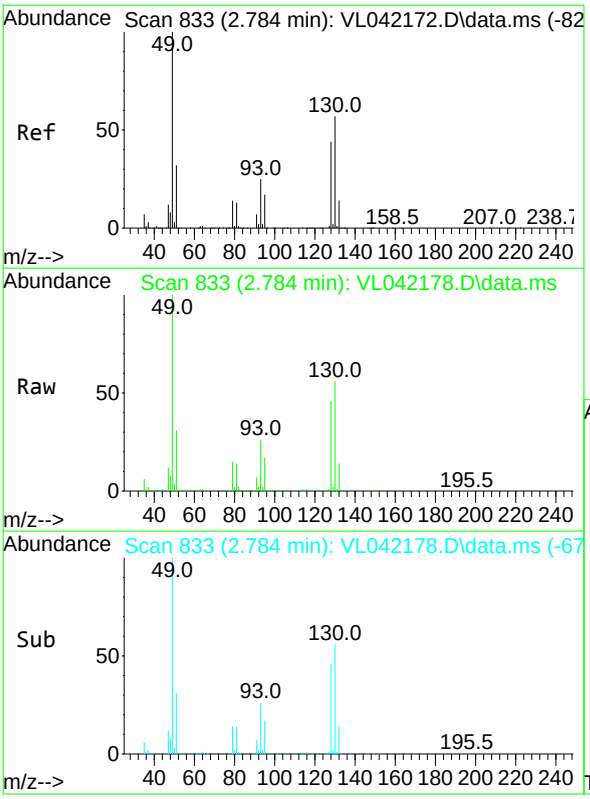
Quant Time: Mar 28 01:37:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

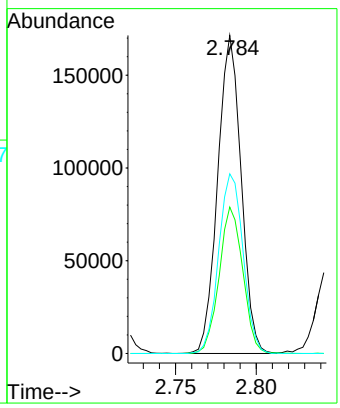





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 83
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 49 Resp: 173372

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 46.4 | 22.9 | 68.5 |
| 130 | 58.7 | 28.8 | 86.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 03/31/2025
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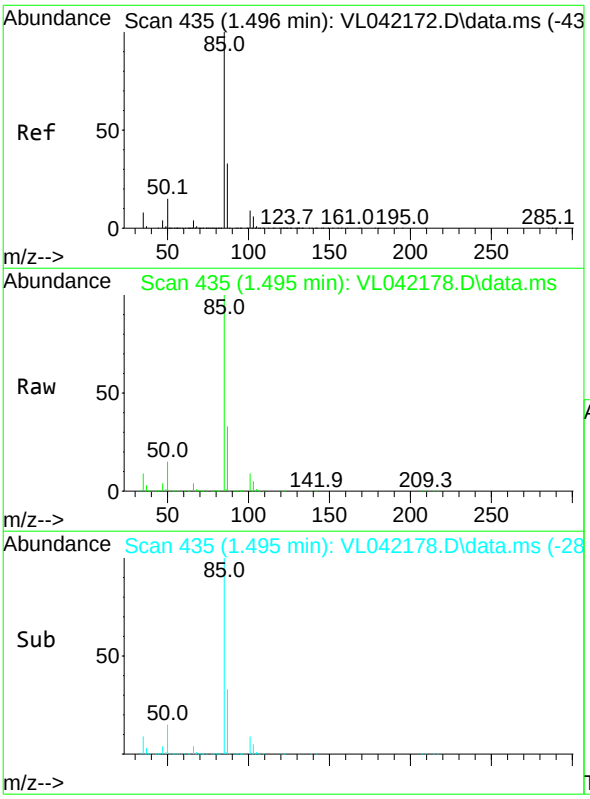
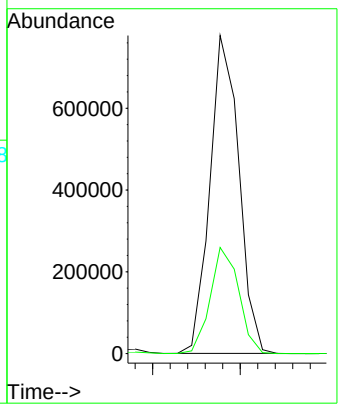
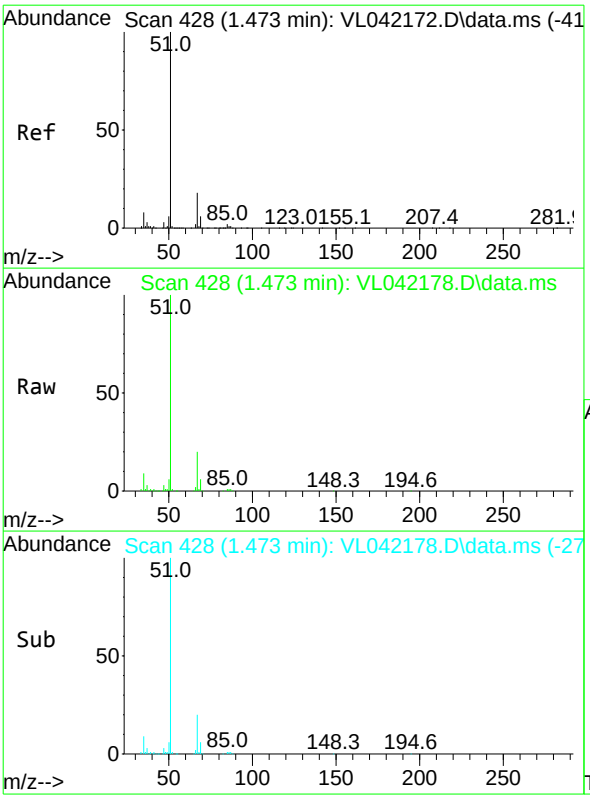



#2
Dichlorodifluoromethane
Concen: 14.023 ppbv
RT: 1.495 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 85 Resp: 358962

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.4 | 26.1 | 39.1 |

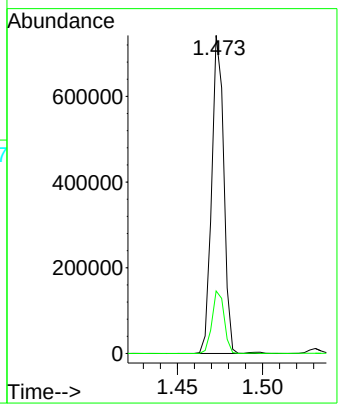





#3
Chlorodifluoromethane
Concen: 14.002 ppbv
RT: 1.473 min Scan# 42
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 51 Resp: 366164

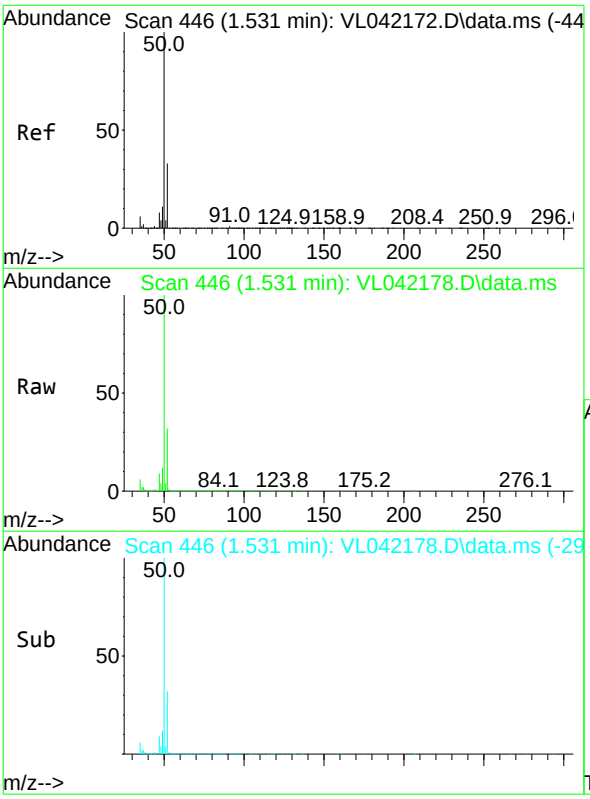
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 19.8 | 15.0 | 22.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

**Manual Integrations**
**APPROVED**

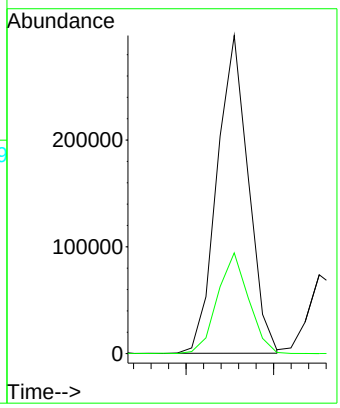
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

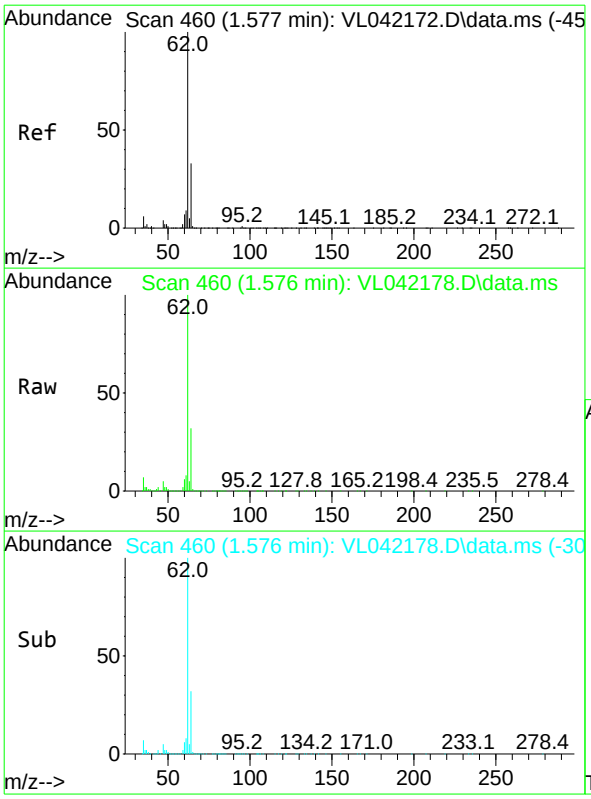



#4
Chloromethane
Concen: 14.160 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 50 Resp: 148133

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 31.6 | 26.1 | 39.1 |

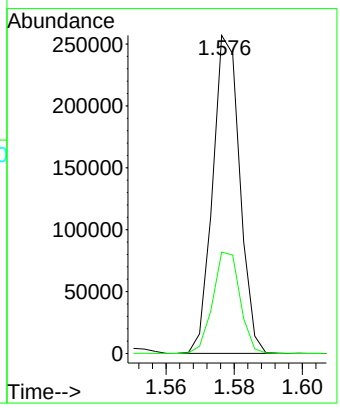





#5
Vinyl Chloride
Concen: 13.304 ppbv
RT: 1.576 min Scan# 46
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 62 Resp: 141938

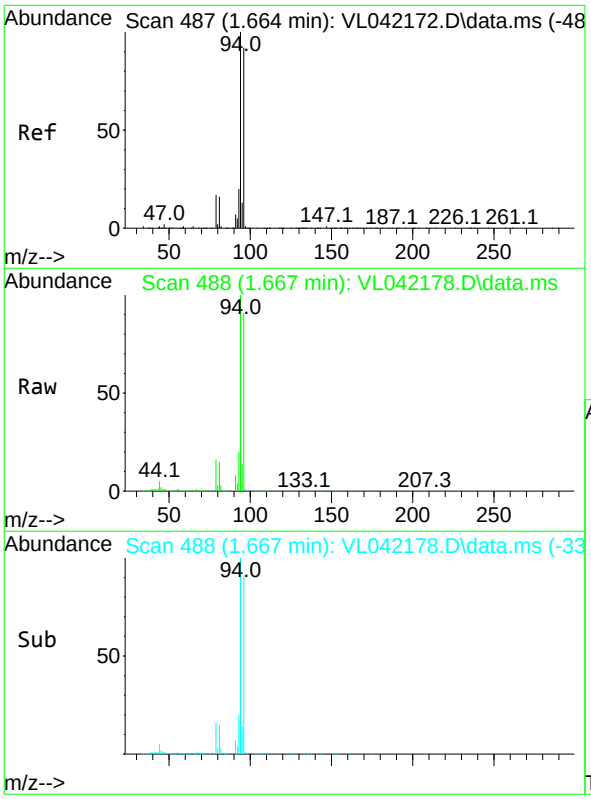
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.9 | 26.6 | 40.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

**Manual Integrations**
**APPROVED**

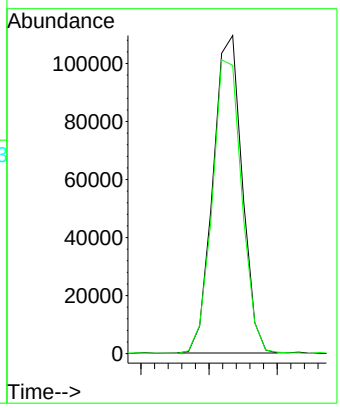
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

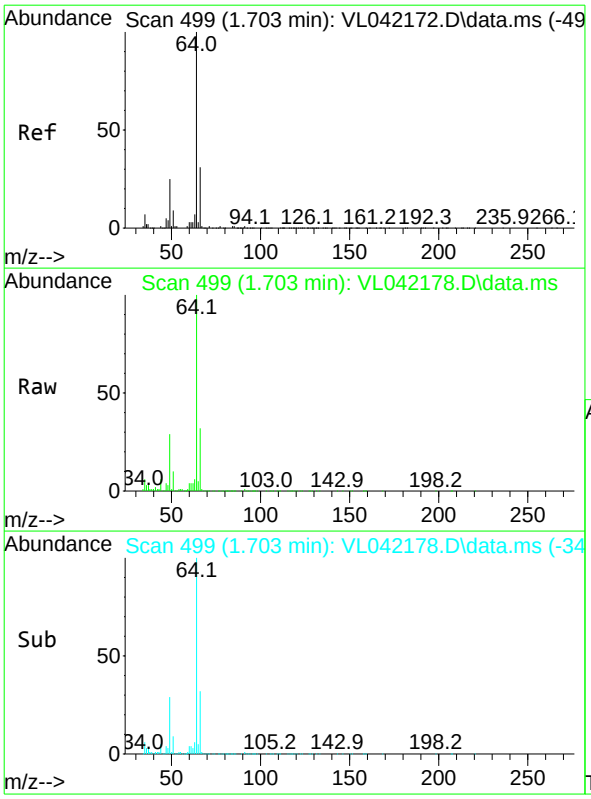



#6
Bromomethane
Concen: 13.734 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 94 Resp: 65113

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 90.7 | 73.1 | 109.7 |

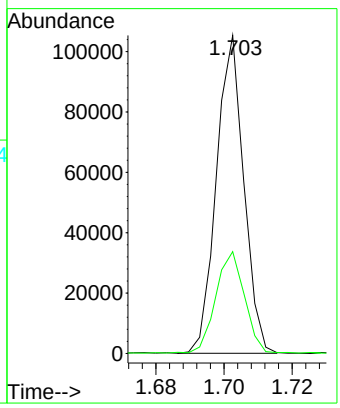





#7
Chloroethane
Concen: 14.007 ppbv
RT: 1.703 min Scan# 49
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 64 Resp: 58820

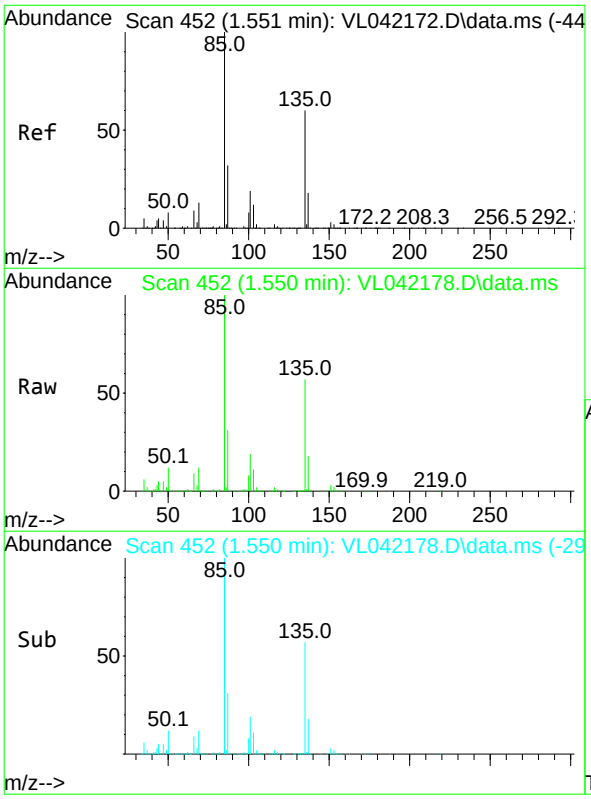
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.0 | 25.2 | 37.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

**Manual Integrations APPROVED**

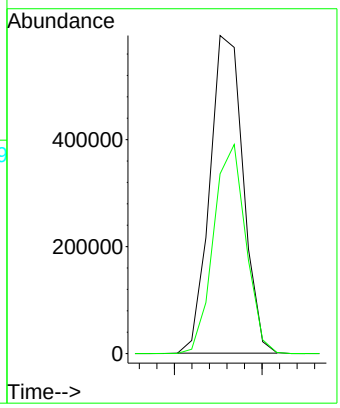
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

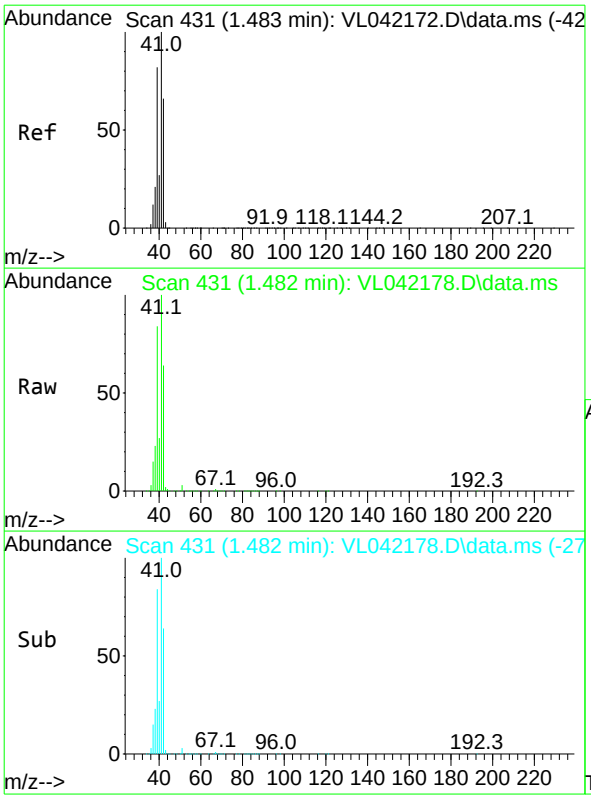



#8
Dichlorotetrafluoroethane
Concen: 14.442 ppbv
RT: 1.550 min Scan# 452
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 85 Resp: 314834

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 63.8 | 52.4 | 78.6 |

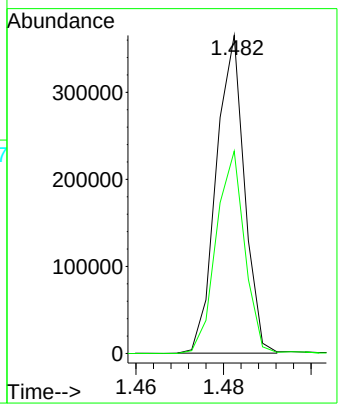





#9
Propene
Concen: 13.902 ppbv
RT: 1.482 min Scan# 43
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 41 Resp: 163799

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 65.3 | 55.4 | 83.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 03/31/2025
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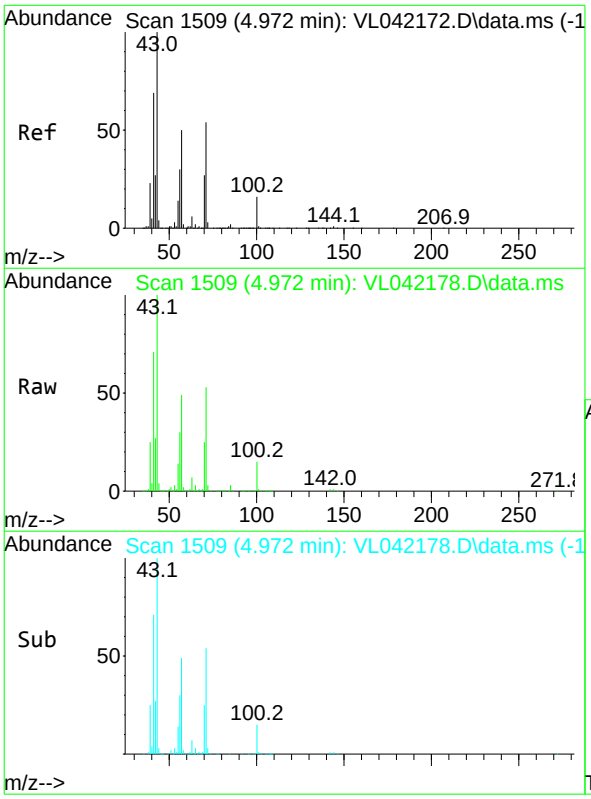
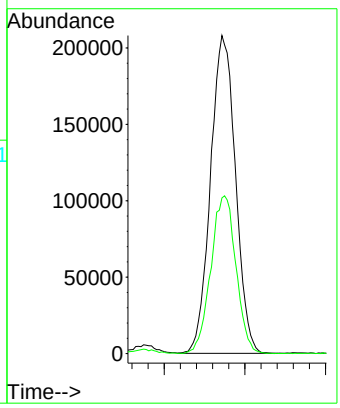
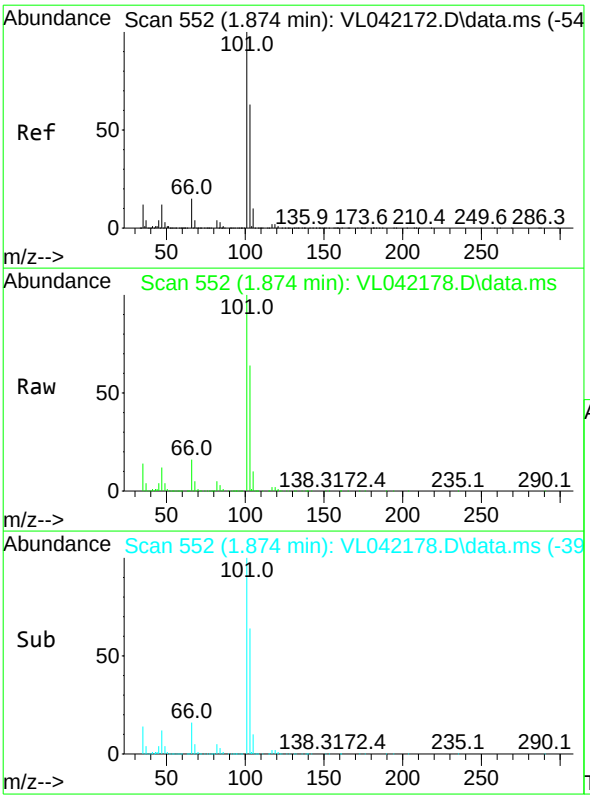



#10
Heptane
Concen: 14.019 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 43 Resp: 446949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 49.9 | 39.4 | 59.2 |

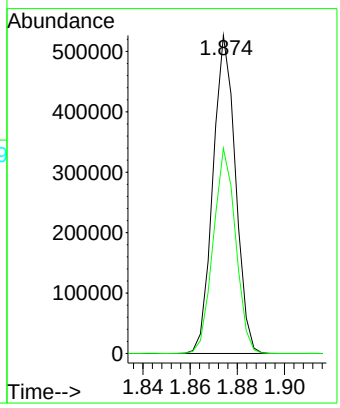





#11
Trichlorofluoromethane
Concen: 14.050 ppbv
RT: 1.874 min Scan# 55
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:101 Resp: 349967

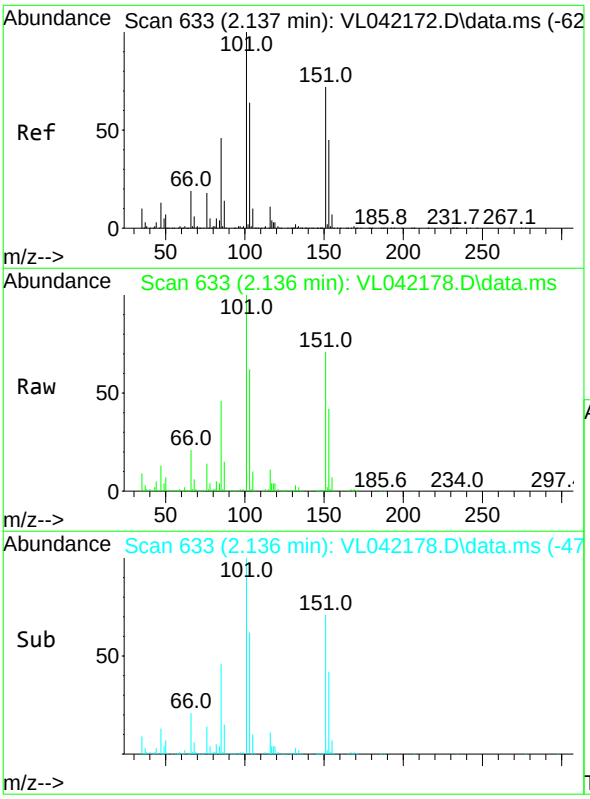
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.5 | 50.2 | 75.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

**Manual Integrations APPROVED**

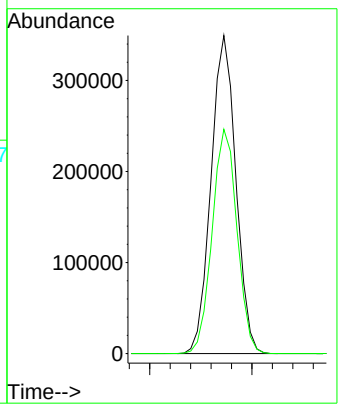
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

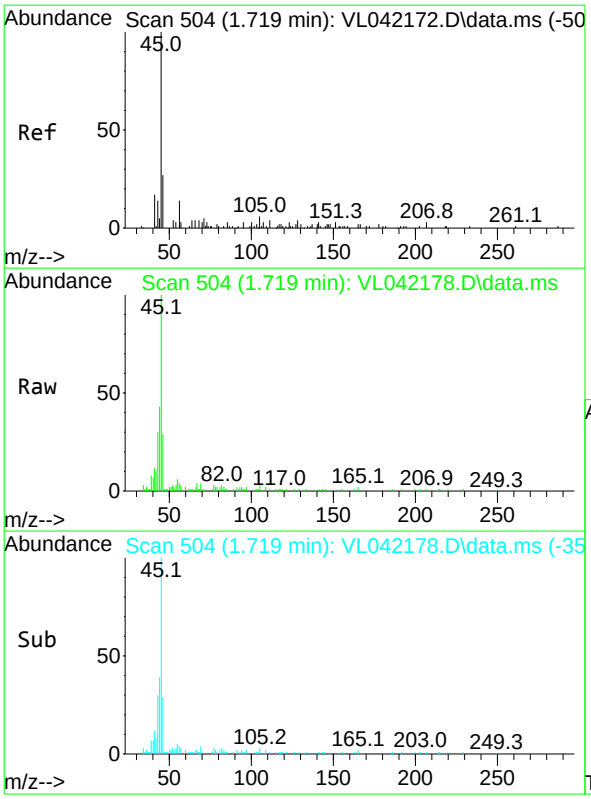



#12
1,1,2-Trichlorotrifluoroethane
Concen: 14.419 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:101 Resp: 295217

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 70.4 | 57.1 | 85.7 |

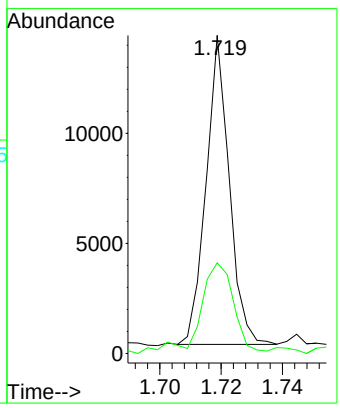





#13
Ethanol
Concen: 8.001 ppbv
RT: 1.719 min Scan# 50
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 45 Resp: 7382

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 44.6 | 20.2 | 80.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

**Manual Integrations**
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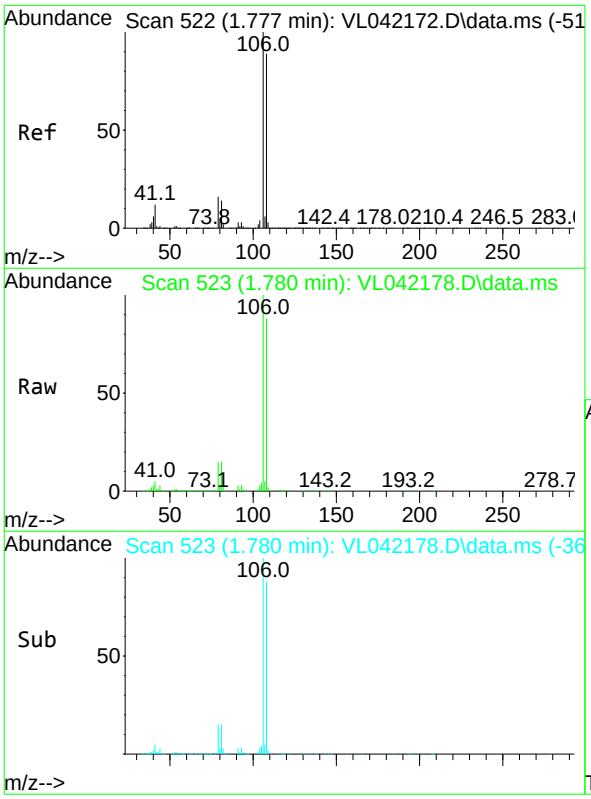
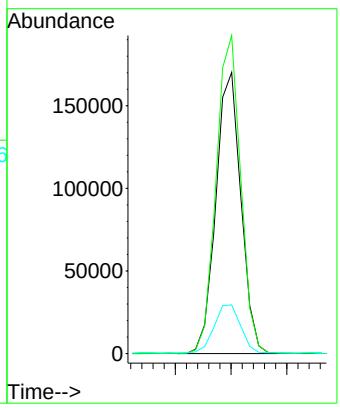
Supervised By :Mahesh Dadoda 04/03/2025

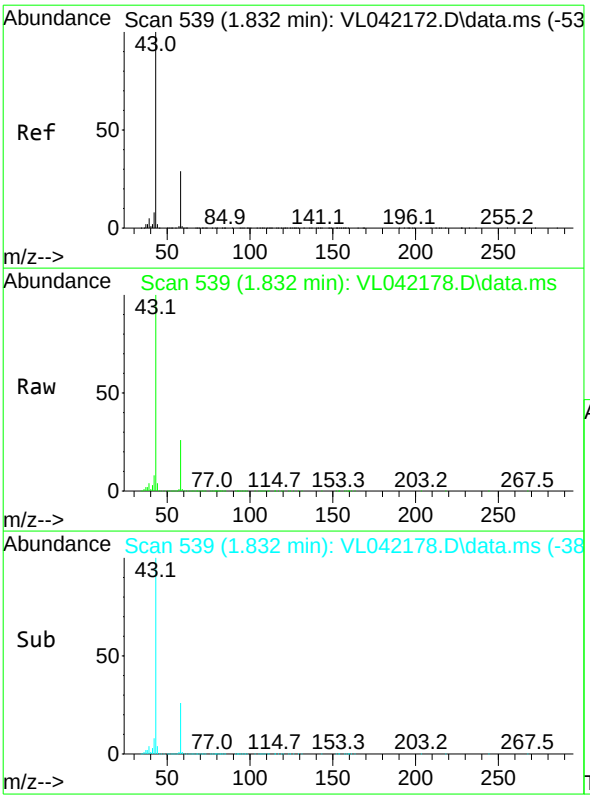



#14
Bromoethene
Concen: 13.571 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:108 Resp: 106436

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 106 | 110.9 | 86.8 | 130.2 |
| 79 | 18.8 | 15.0 | 22.6 |

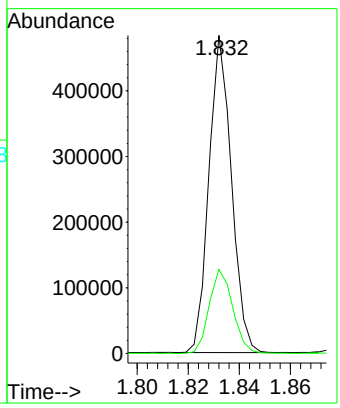





#15
Acetone
Concen: 12.218 ppbv
RT: 1.832 min Scan# 53
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 43 Resp: 296254

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 27.7 | 23.2 | 34.8 |




**Instrument :**
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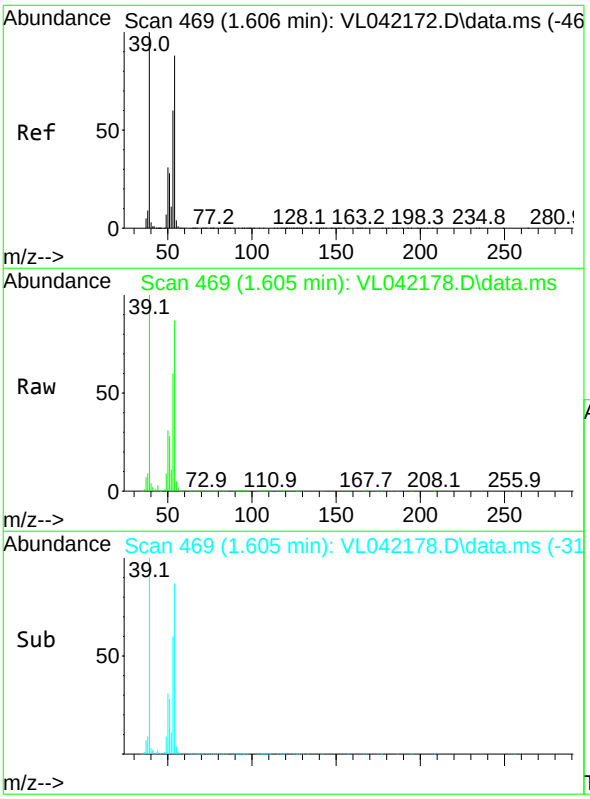
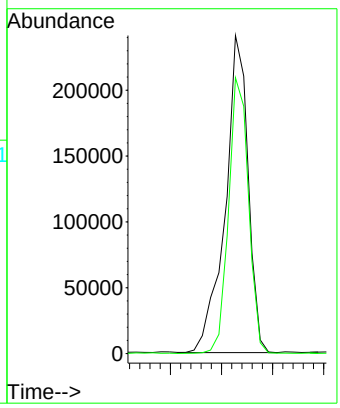
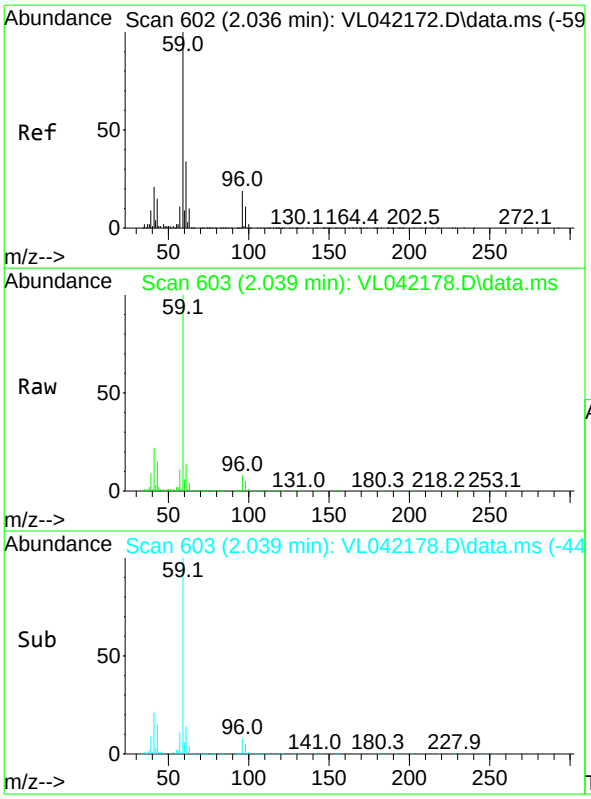



#16
1,3-Butadiene
Concen: 13.766 ppbv
RT: 1.605 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 39 Resp: 150122

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 76.3 | 60.7 | 91.1 |

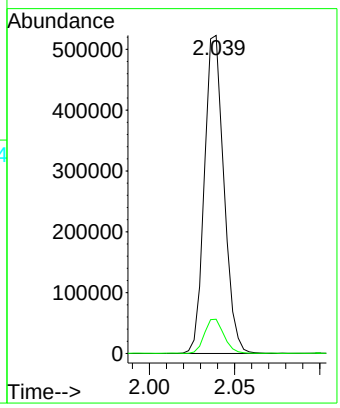





#17
tert-Butyl alcohol
Concen: 13.787 ppbv
RT: 2.039 min Scan# 60
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 59 Resp: 416362

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.8 | 8.9 | 13.3 |




**Instrument :**
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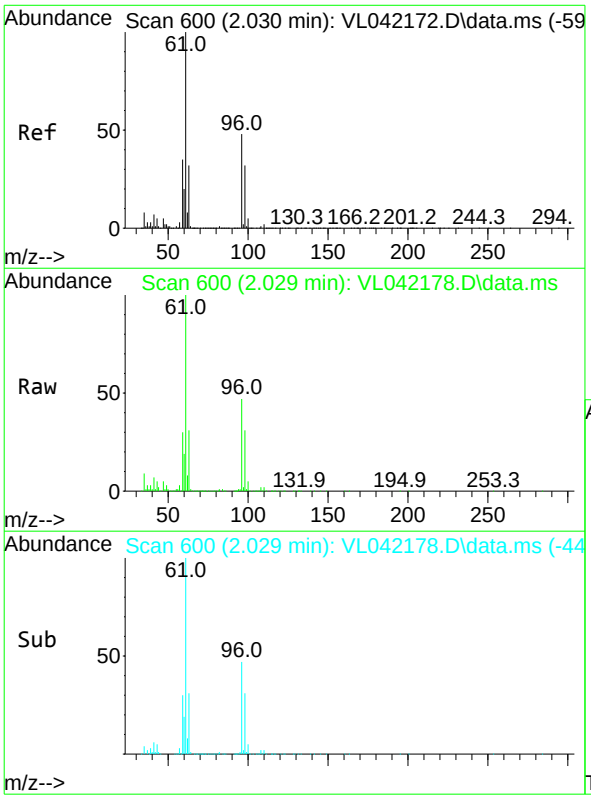
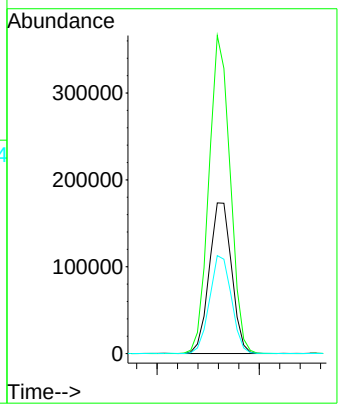
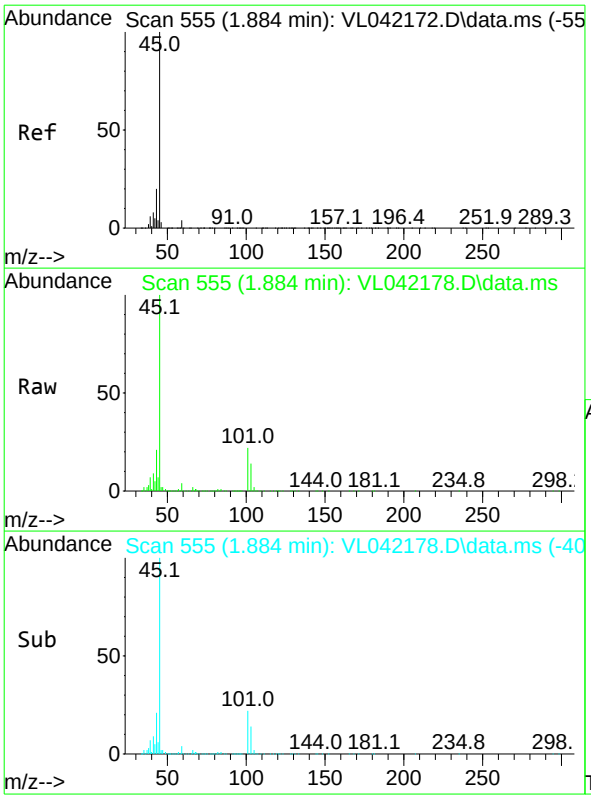



#18
1,1-Dichloroethene
Concen: 13.762 ppbv
RT: 2.029 min Scan# 600
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 96 Resp: 131720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 211.1 | 167.6 | 251.4 |
| 98 | 64.9 | 53.5 | 80.3 |

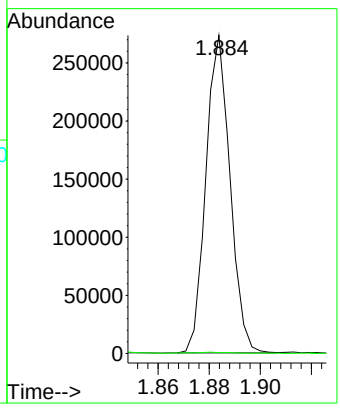





#19
Isopropyl Alcohol
Concen: 13.093 ppbv
RT: 1.884 min Scan# 55
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 45 Resp: 179117

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 46.4 | 36.9 | 55.3 |




**Instrument :**
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VSTDICC015

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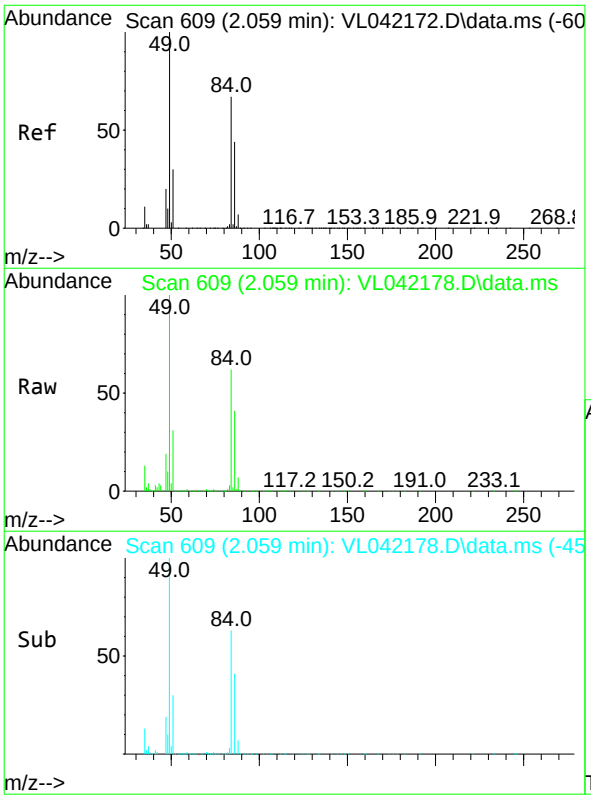
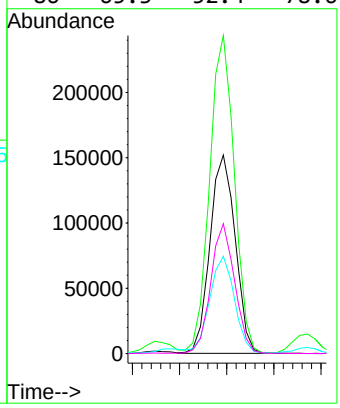
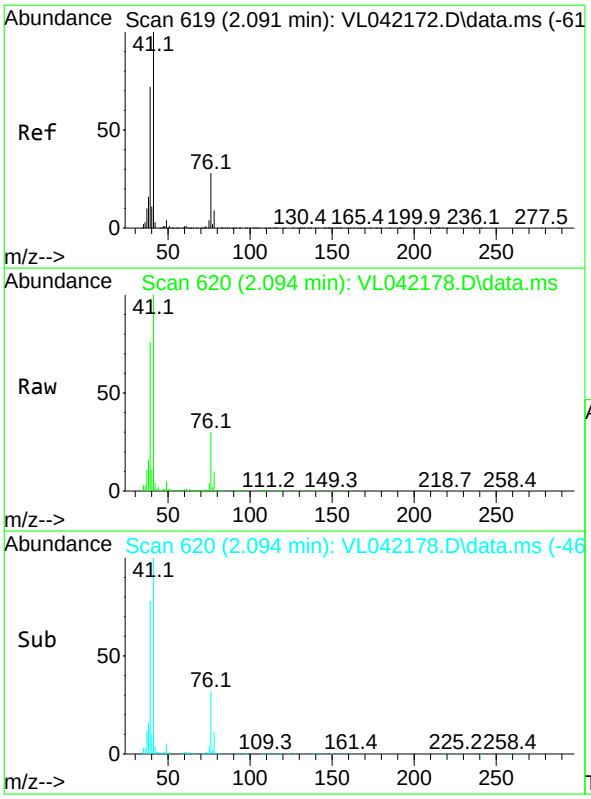



#20
Methylene Chloride
Concen: 12.533 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 84 Resp: 113183

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 159.7 | 120.2 | 180.4 |
| 51 | 48.7 | 37.4 | 56.0 |
| 86 | 65.3 | 52.4 | 78.6 |






#21
Allyl Chloride
Concen: 14.002 ppbv
RT: 2.094 min Scan# 62
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 41 Resp: 239440

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 29.5 | 24.1 | 36.1 |
| 39 | 76.1 | 61.1 | 91.7 |

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VSTDICC015

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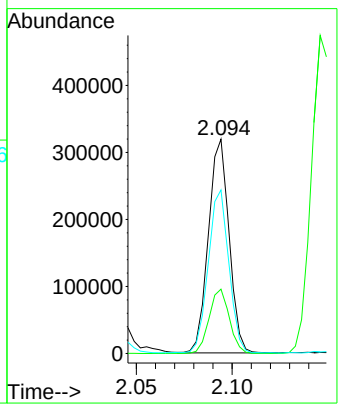
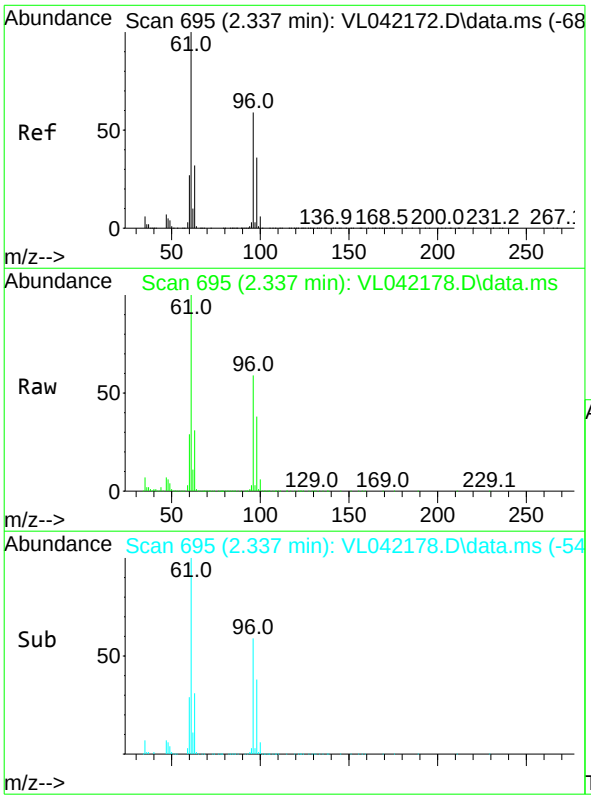
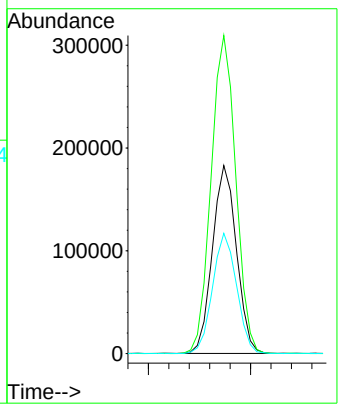


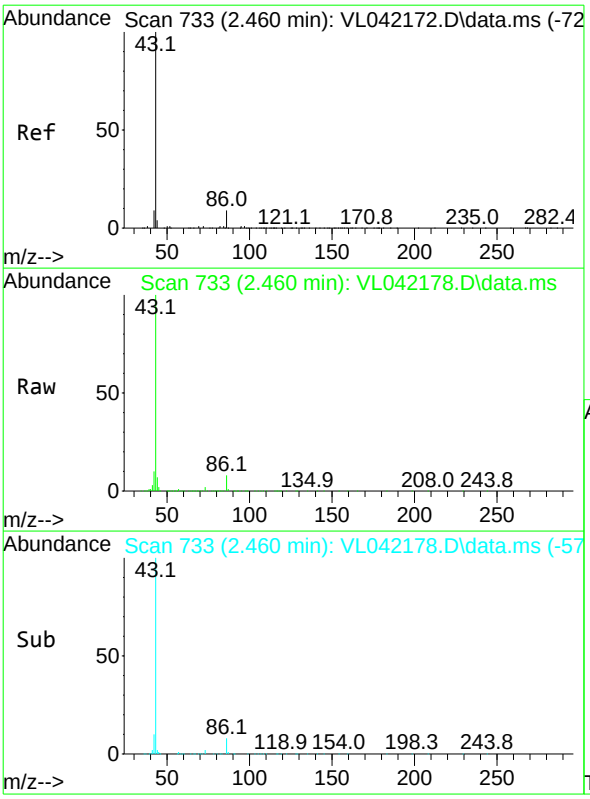




#22
trans-1,2-Dichloroethene
Concen: 13.362 ppbv
RT: 2.337 min Scan# 695
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 96 Resp: 149455

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 169.2 | 136.6 | 204.8 |
| 98 | 63.9 | 49.4 | 74.2 |

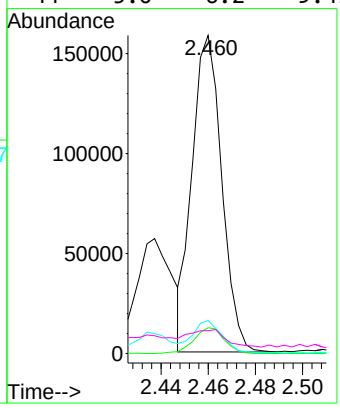





#23
Vinyl Acetate
Concen: 13.736 ppbv
RT: 2.460 min Scan# 73
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 43 Resp: 138419

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 8.1 | 5.5 | 8.3 |
| 42 | 10.1 | 8.6 | 13.0 |
| 44 | 5.0 | 6.2 | 9.4# |

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VSTDICC015

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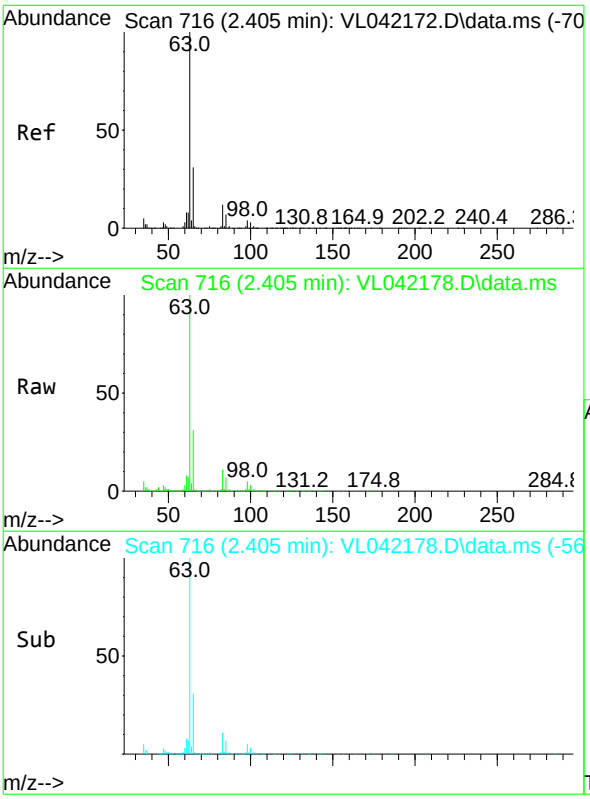
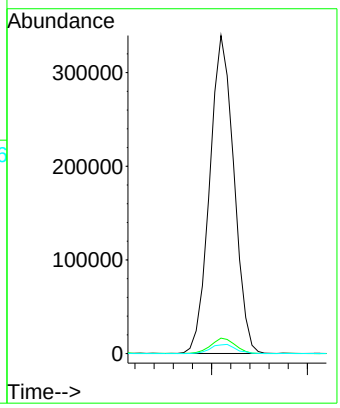
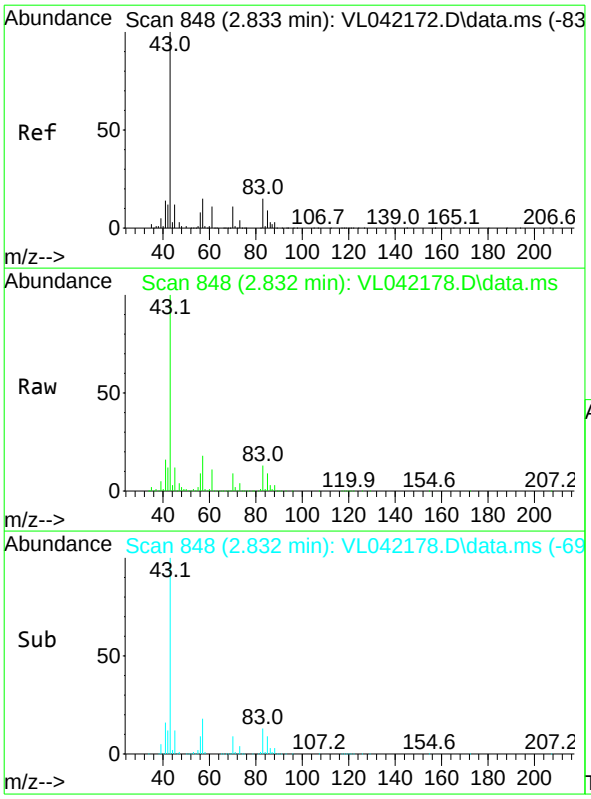



#24
1,1-Dichloroethane
Concen: 14.570 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 63 Resp: 298760

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 4.9 | 2.3 | 6.8 |
| 100 | 2.7 | 1.6 | 4.7 |

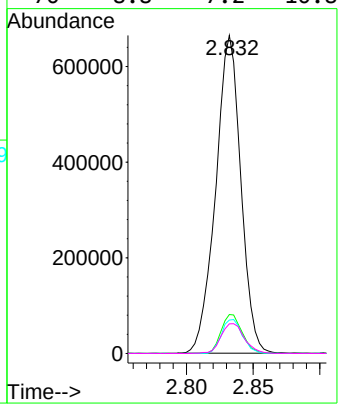





#25
Ethyl Acetate
Concen: 13.855 ppbv
RT: 2.832 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 43 Resp: 871882

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 10.3 | 8.2 | 12.2 |
| 61 | 9.0 | 7.3 | 10.9 |
| 70 | 8.8 | 7.2 | 10.8 |

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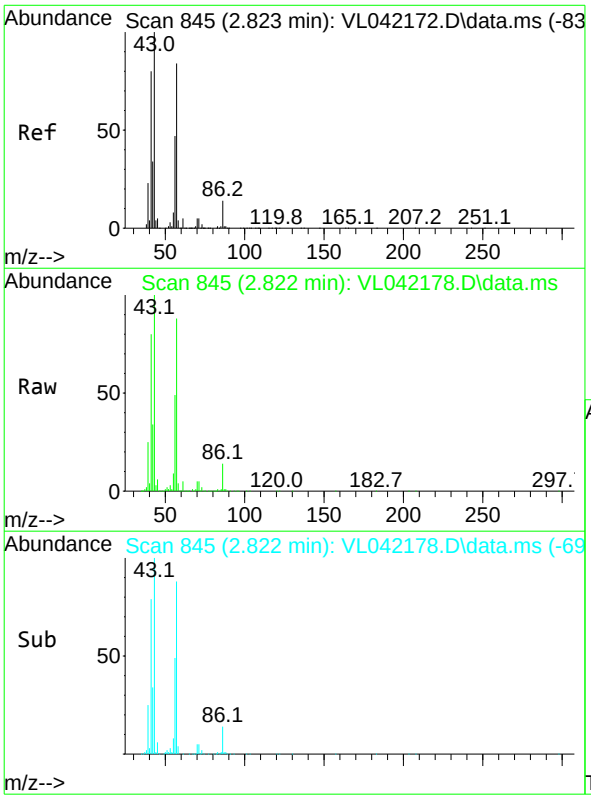
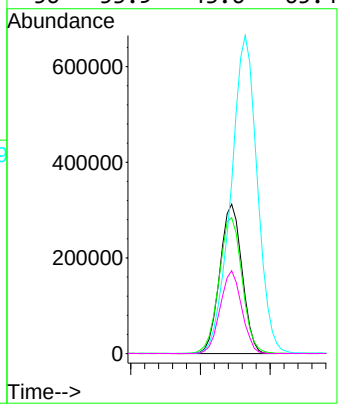
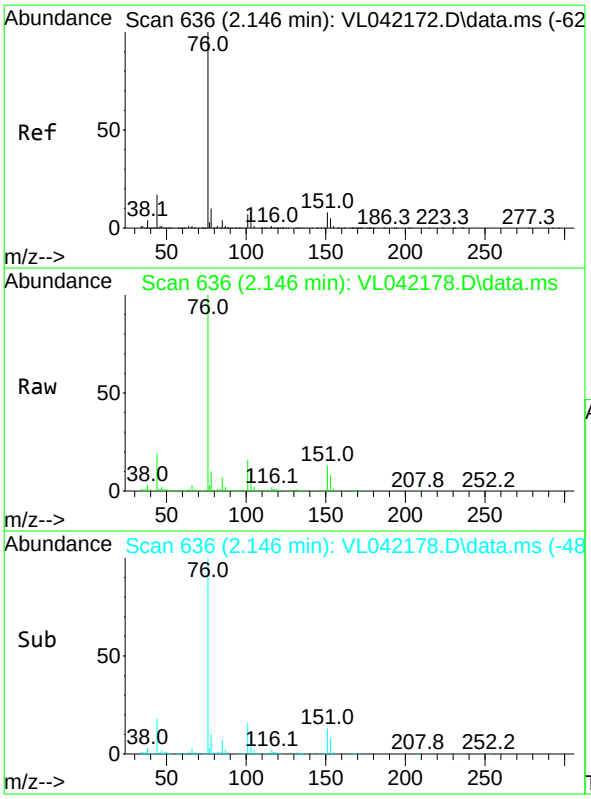



#26
Hexane
Concen: 14.178 ppbv
RT: 2.822 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 57 Resp: 344636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 96.1 | 76.6 | 114.8 |
| 43 | 254.0 | 207.8 | 311.8 |
| 56 | 53.9 | 43.6 | 65.4 |

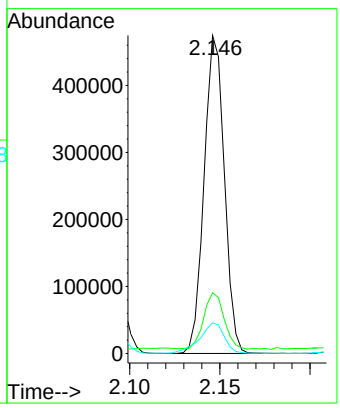





#27
Carbon Disulfide
Concen: 14.196 ppbv
RT: 2.146 min Scan# 63
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 76 Resp: 370022

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 20.3 | 14.7 | 22.1 |
| 78 | 11.7 | 9.3 | 13.9 |

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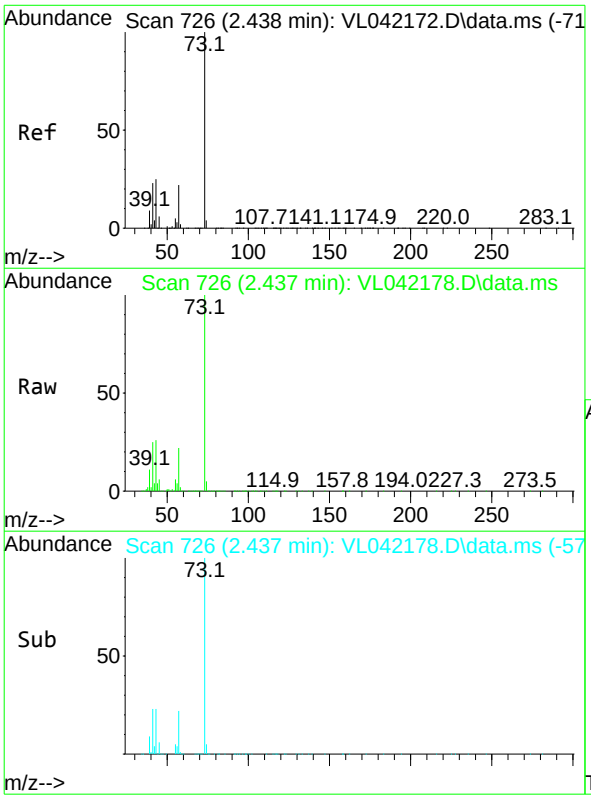
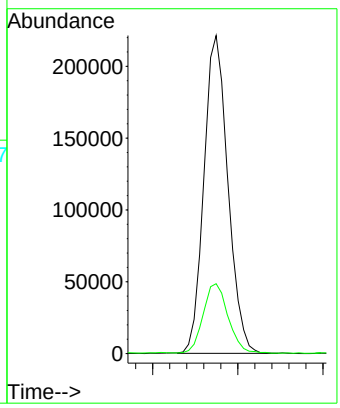
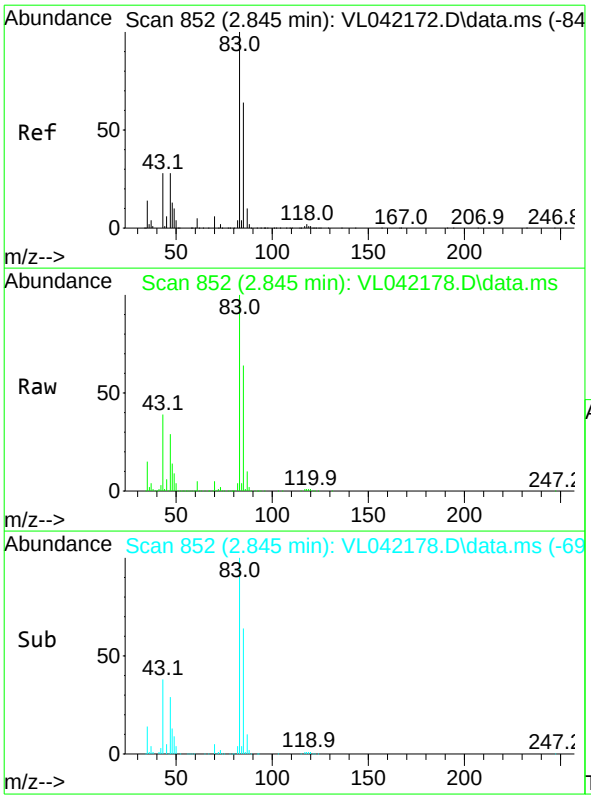



#28
Methyl tert-Butyl Ether
Concen: 14.303 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 73 Resp: 216463

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 23.2 | 20.5 | 30.7 |

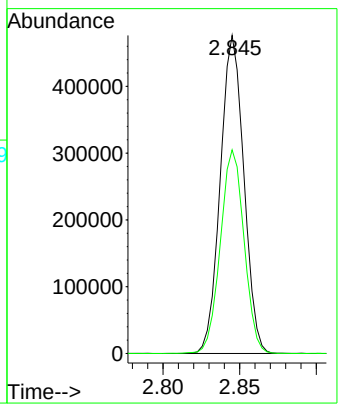





#29
Chloroform
Concen: 14.297 ppbv
RT: 2.845 min Scan# 85
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 83 Resp: 508614

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.0 | 51.4 | 77.2 |

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VSTDICC015

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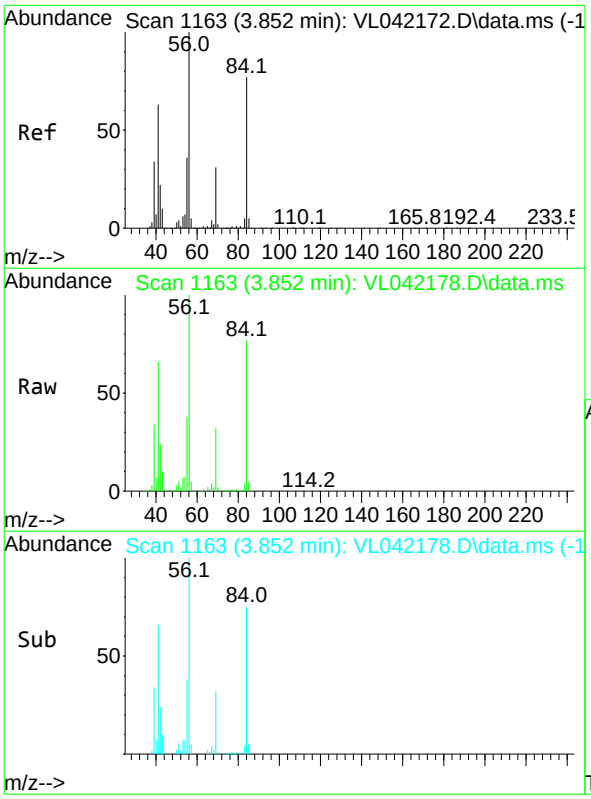
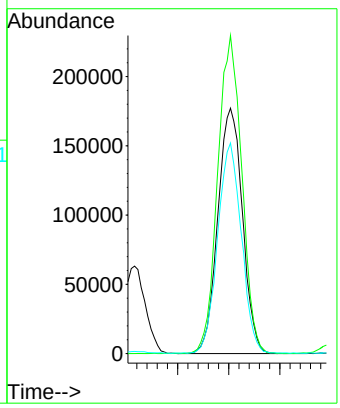
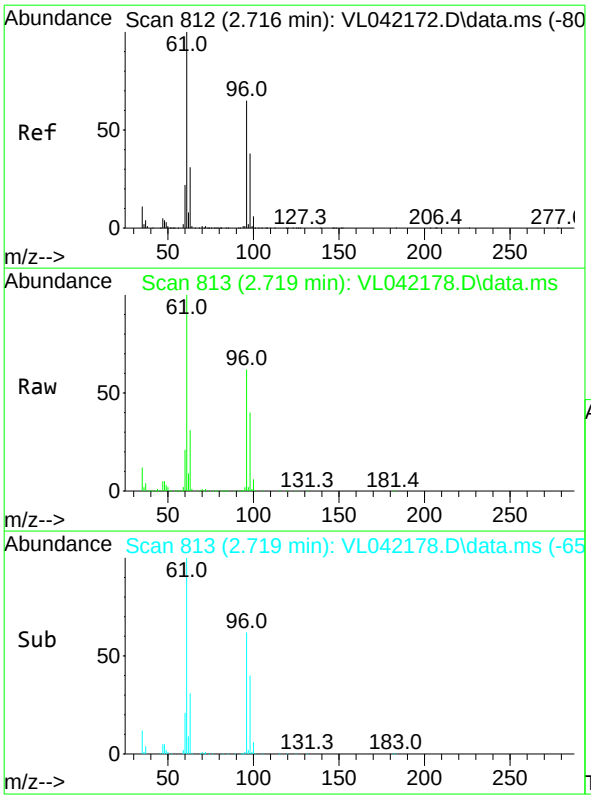



#30
Cyclohexane
Concen: 14.040 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 84 Resp: 296458

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 126.7 | 102.8 | 154.2 |
| 41 | 82.6 | 66.5 | 99.7 |

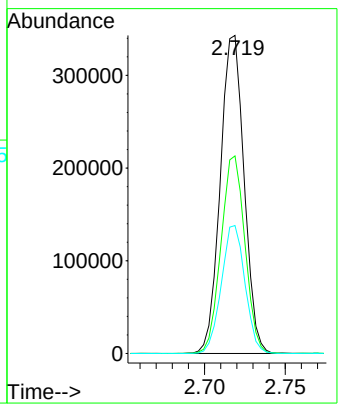





#31
cis-1,2-Dichloroethene
Concen: 14.262 ppbv
RT: 2.719 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 61 Resp: 351945

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 62.1 | 51.8 | 77.8 |
| 98 | 40.2 | 30.6 | 46.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

**Manual Integrations**
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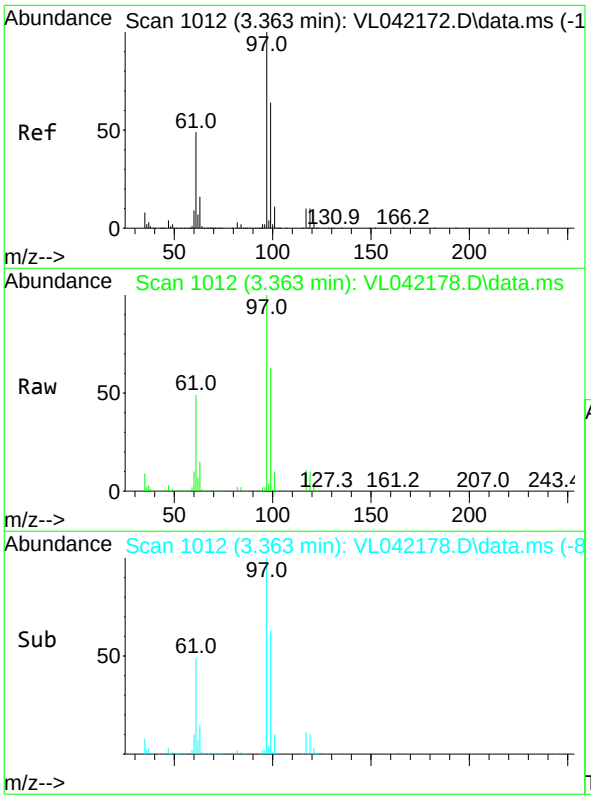
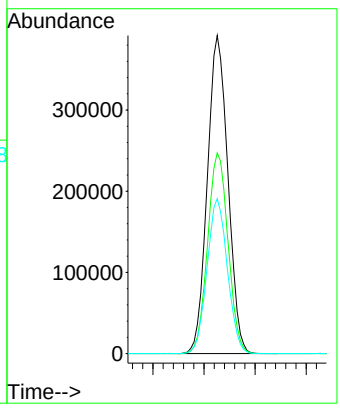
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

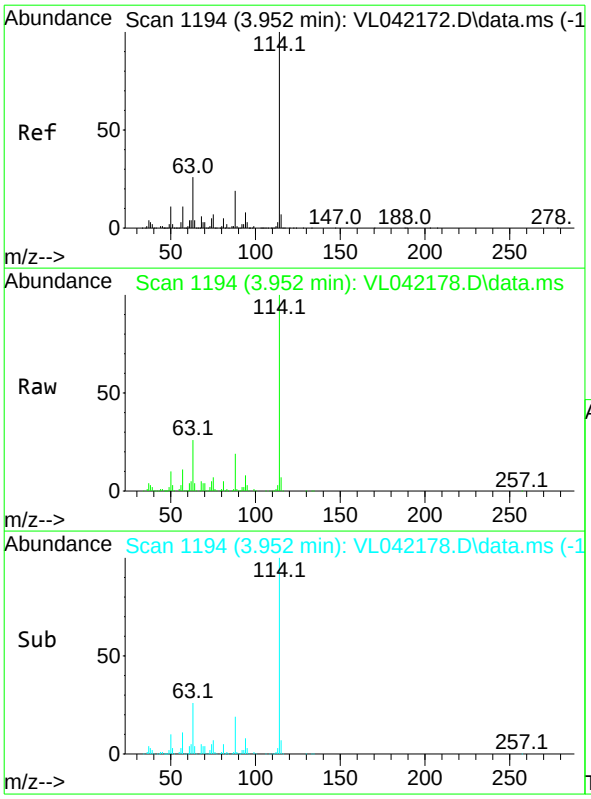



#32
1,1,1-Trichloroethane
Concen: 13.448 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 97 Resp: 547329

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 62.8 | 51.5 | 77.3 |
| 61 | 48.4 | 38.7 | 58.1 |

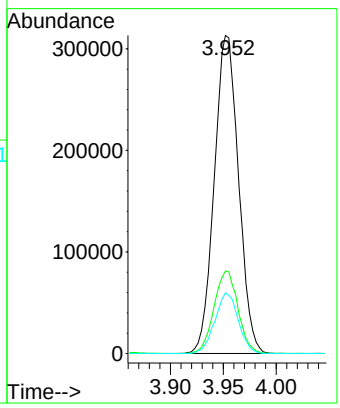





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:114 Resp: 499360

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.7 | 20.7 | 31.1 |
| 88 | 18.4 | 15.0 | 22.4 |




**Instrument :**
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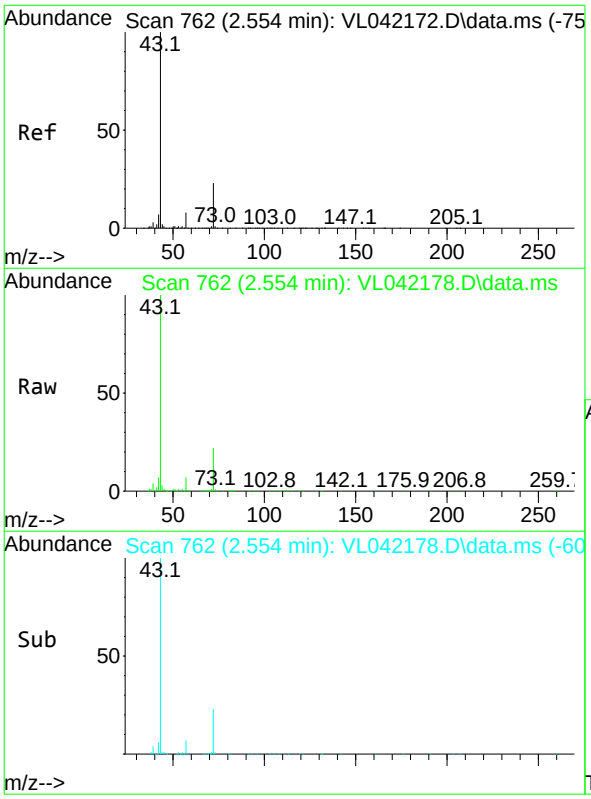
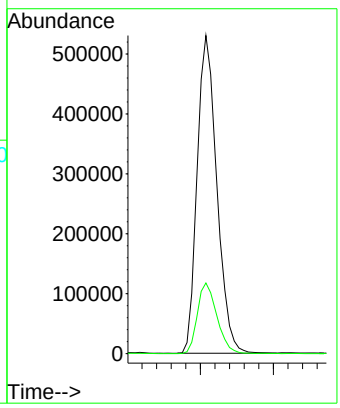
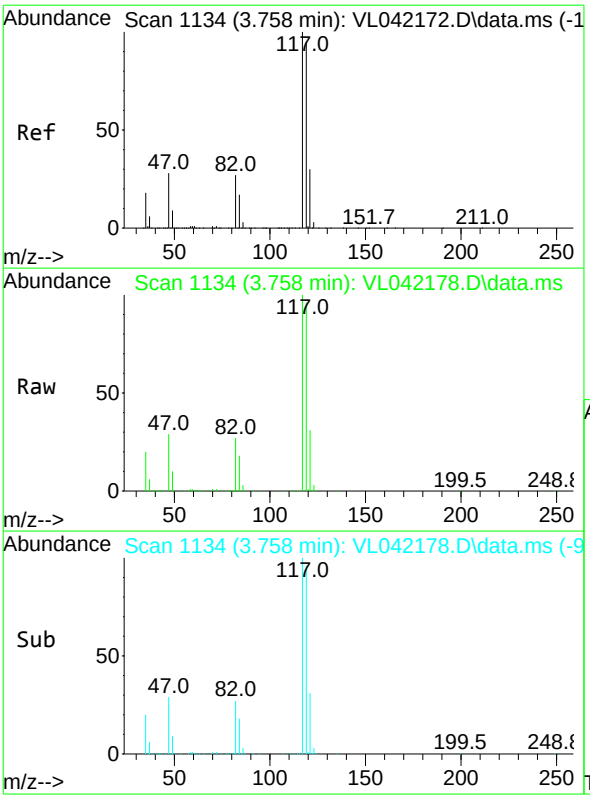



#34
2-Butanone
Concen: 13.726 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 43 Resp: 497020

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 22.0 | 18.2 | 27.2 |

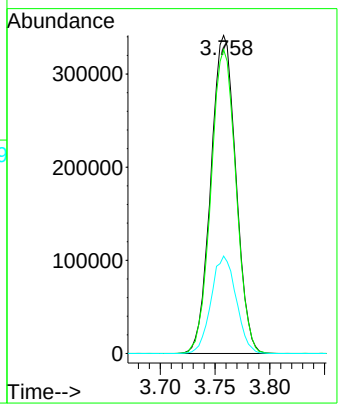





#35
Carbon Tetrachloride
Concen: 14.140 ppbv
RT: 3.758 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:117 Resp: 543385

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 95.5 | 76.2 | 114.2 |
| 121 | 30.6 | 24.2 | 36.4 |




**Instrument :**
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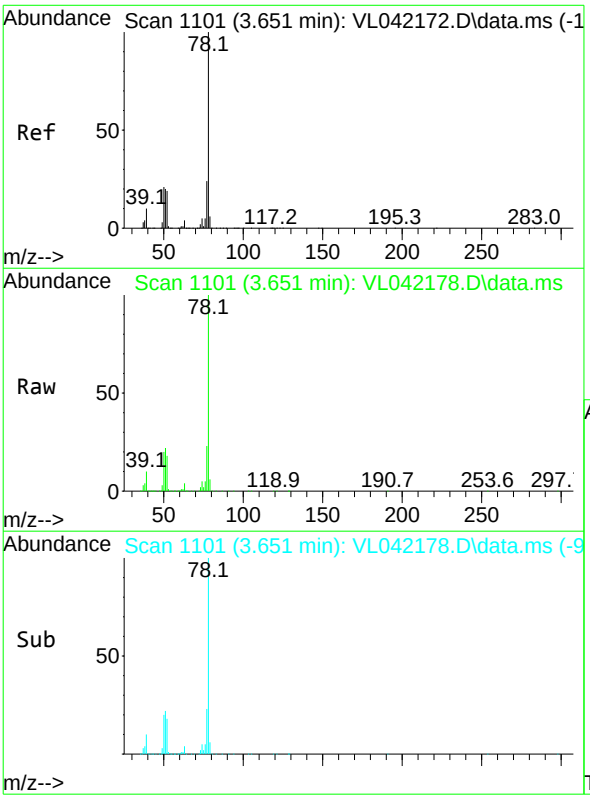
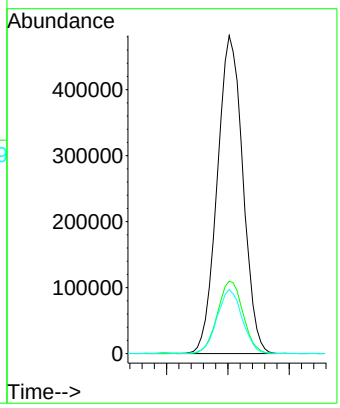
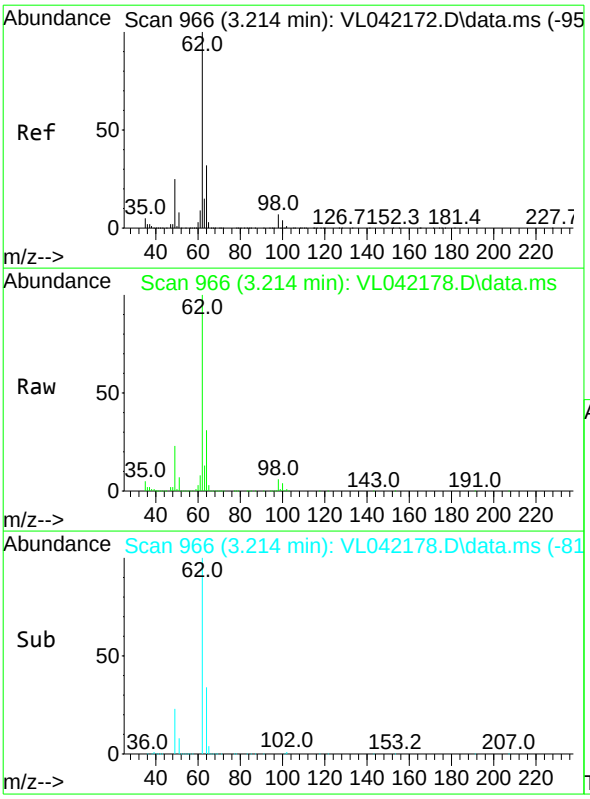



#36
Benzene
Concen: 14.131 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 78 Resp: 699549

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 22.7 | 19.1 | 28.7 |
| 50 | 20.1 | 16.6 | 24.8 |






#37
1,2-Dichloroethane
Concen: 14.697 ppbv
RT: 3.214 min Scan# 96
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 62 Resp: 416544

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 6.4 | 5.4 | 8.2 |

**Instrument :**
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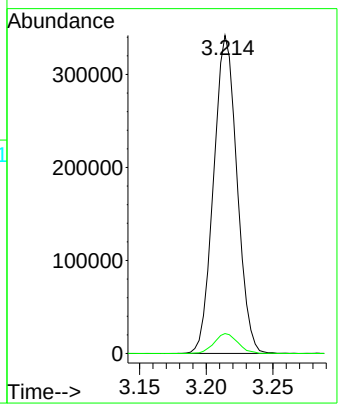
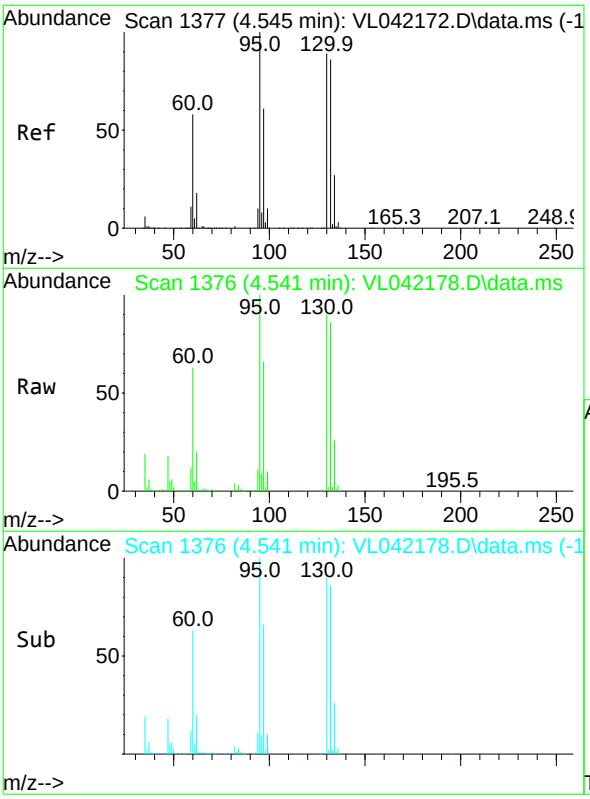
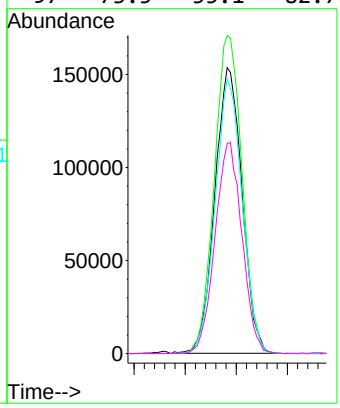


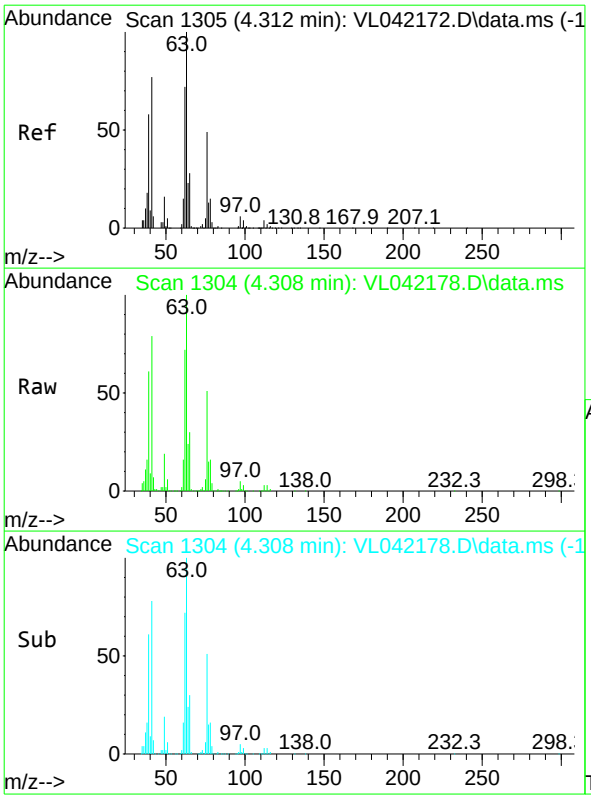




#38
Trichloroethene
Concen: 13.715 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. -0.004 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:130 Resp: 283430

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 111.3 | 89.8 | 134.8 |
| 132 | 96.0 | 77.4 | 116.2 |
| 97 | 73.5 | 55.1 | 82.7 |

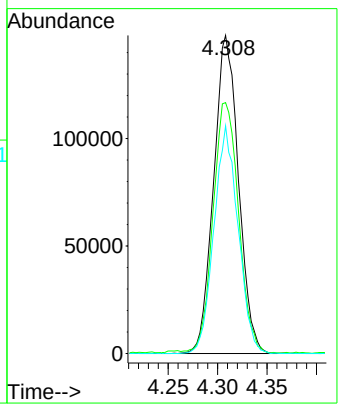





#39
1,2-Dichloropropane
Concen: 14.304 ppbv
RT: 4.308 min Scan# 13
Delta R.T. -0.004 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 63 Resp: 257891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 78.7 | 61.7 | 92.5 |
| 62 | 71.6 | 57.6 | 86.4 |




**Instrument :**
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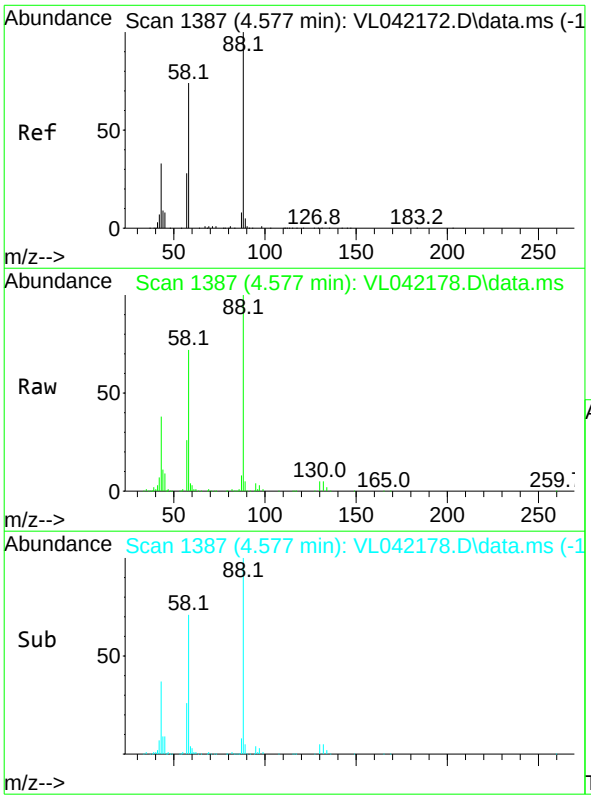
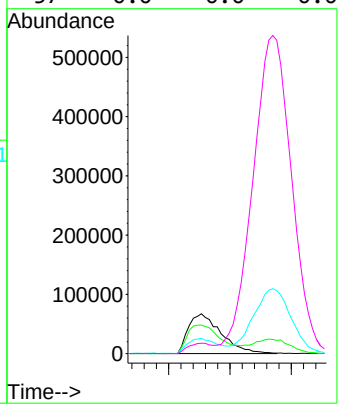
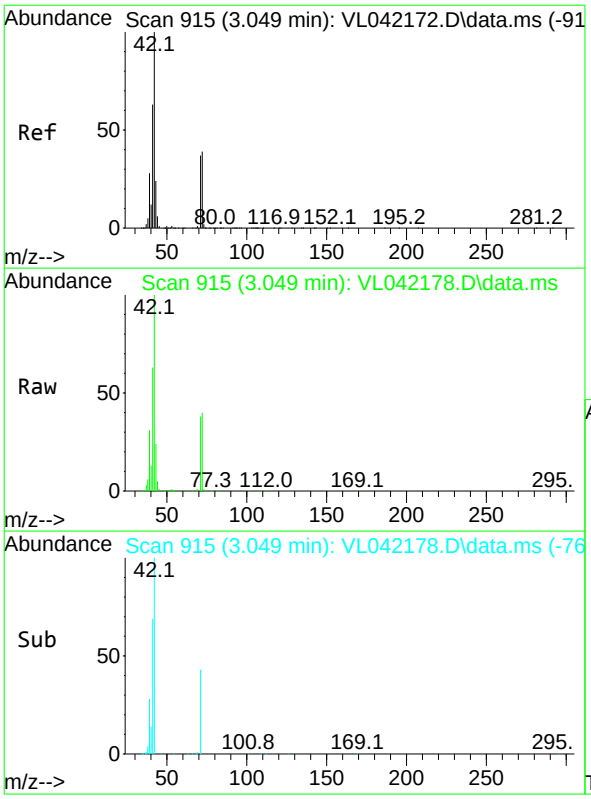



#40
1,4-Dioxane
Concen: 13.354 ppbv
RT: 4.577 min Scan# 1387
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 88 Resp: 124925

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 69.6 | 62.7 | 94.1 |
| 43 | 31.6 | 23.0 | 34.4 |
| 57 | 0.0 | 0.0 | 0.0 |

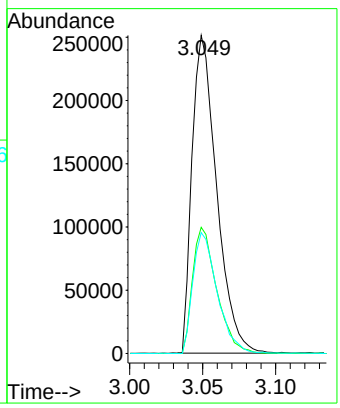





#41
Tetrahydrofuran
Concen: 14.301 ppbv
RT: 3.049 min Scan# 91
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 42 Resp: 294634

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 39.0 | 31.4 | 47.0 |
| 71 | 37.9 | 30.2 | 45.4 |

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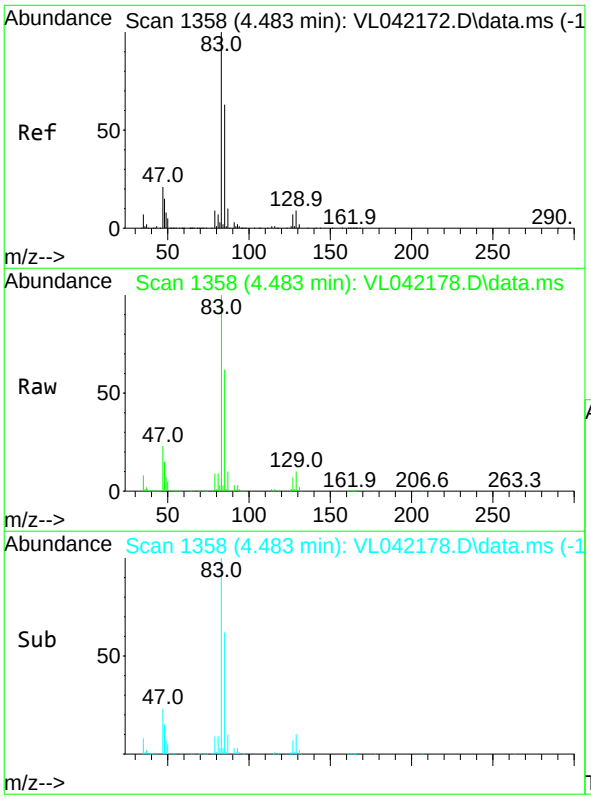
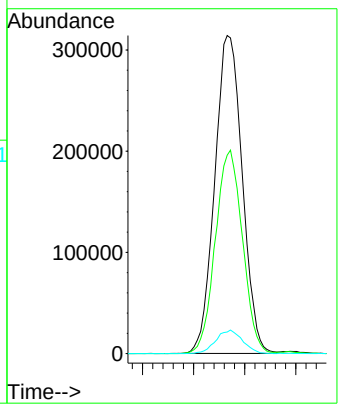
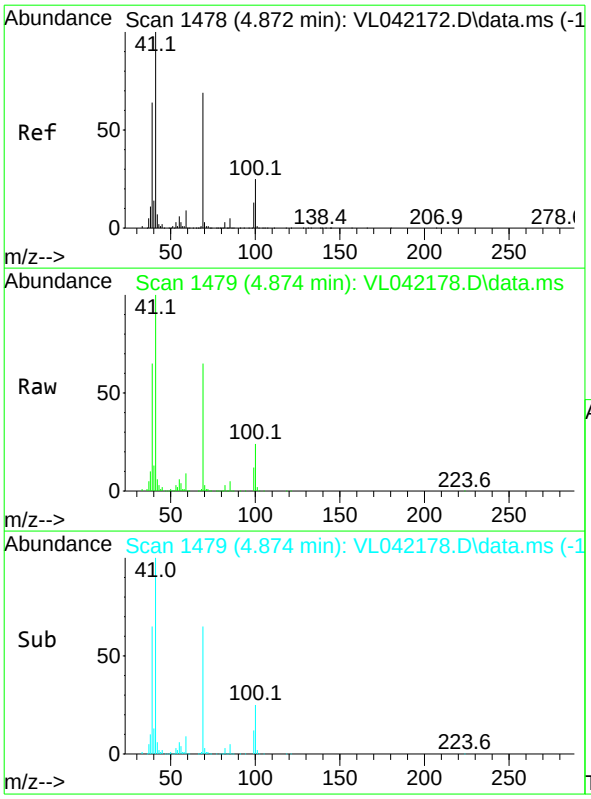



#42
Bromodichloromethane
Concen: 15.043 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 83 Resp: 587772

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.4 | 50.5 | 75.7 |
| 127 | 6.8 | 5.9 | 8.9 |

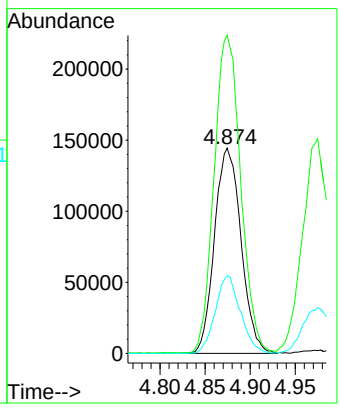





#43
Methyl Methacrylate
Concen: 14.130 ppbv
RT: 4.874 min Scan# 14
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 69 Resp: 295300

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 155.4 | 123.8 | 185.6 |
| 100 | 36.0 | 28.4 | 42.6 |

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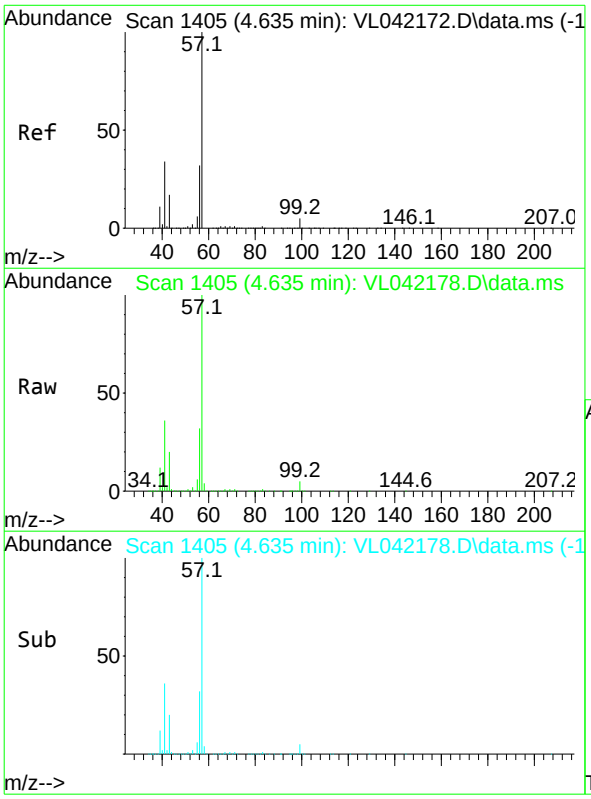
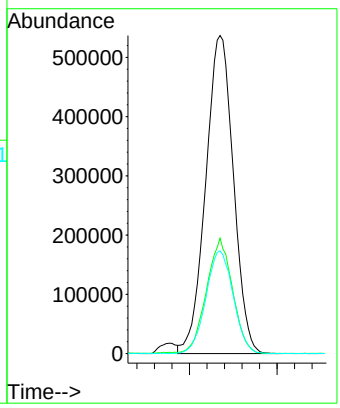
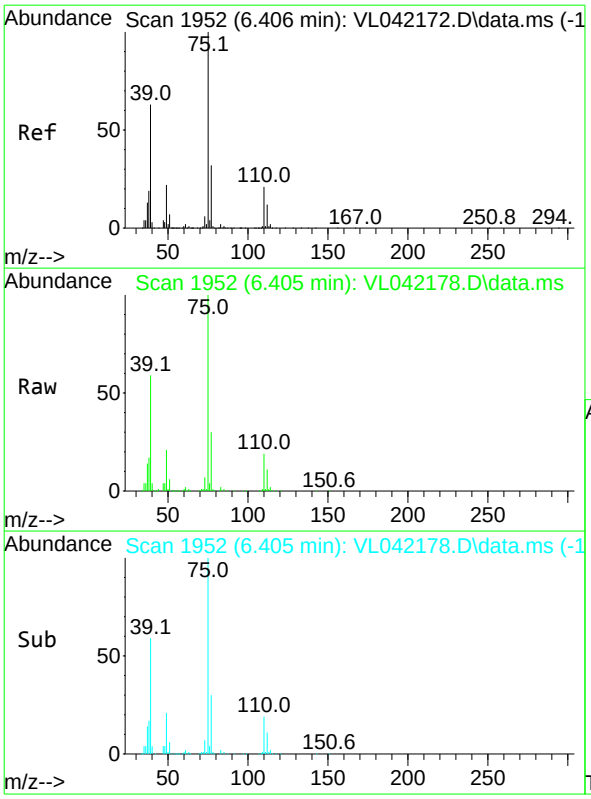



#44
2,2,4-Trimethylpentane
Concen: 14.108 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 57 Resp: 1180275

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 34.2 | 26.8 | 40.2 |
| 56 | 31.9 | 25.6 | 38.4 |

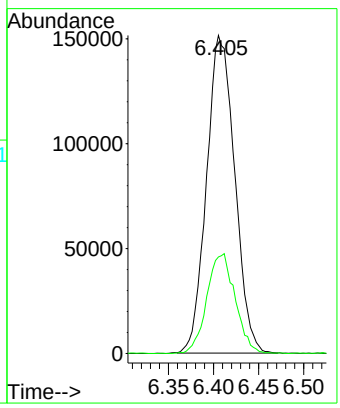





#45
t-1,3-Dichloropropene
Concen: 14.649 ppbv
RT: 6.405 min Scan# 19
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 75 Resp: 329360

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.4 | 26.0 | 39.0 |

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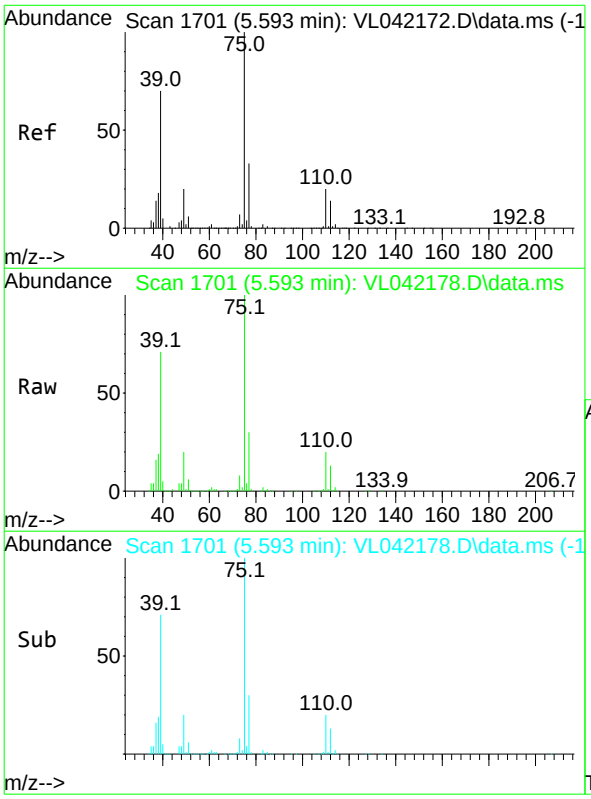
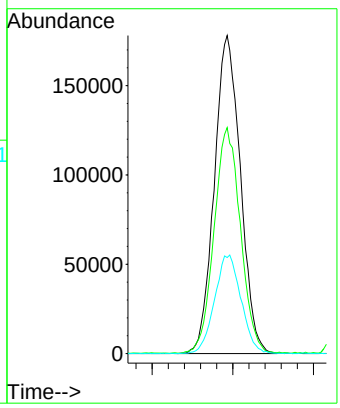
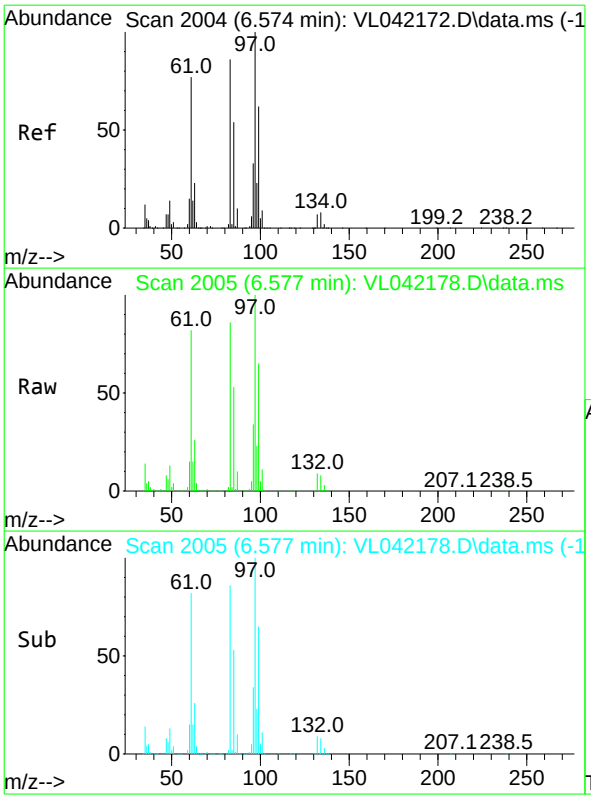



#46
cis-1,3-Dichloropropene
Concen: 14.542 ppbv
RT: 5.593 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 75 Resp: 400813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 39 | 70.9 | 55.8 | 83.6 |
| 77 | 30.2 | 26.0 | 39.0 |

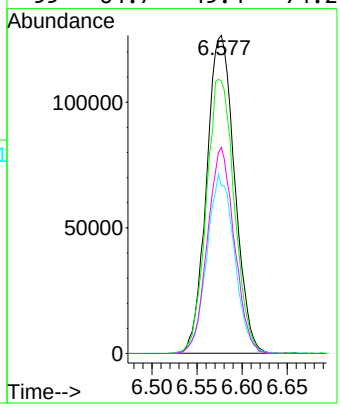





#47
1,1,2-Trichloroethane
Concen: 14.331 ppbv
RT: 6.577 min Scan# 20
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 97 Resp: 273137

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 85.7 | 69.2 | 103.8 |
| 85 | 52.7 | 43.1 | 64.7 |
| 99 | 64.7 | 49.4 | 74.2 |

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VSTDICC015

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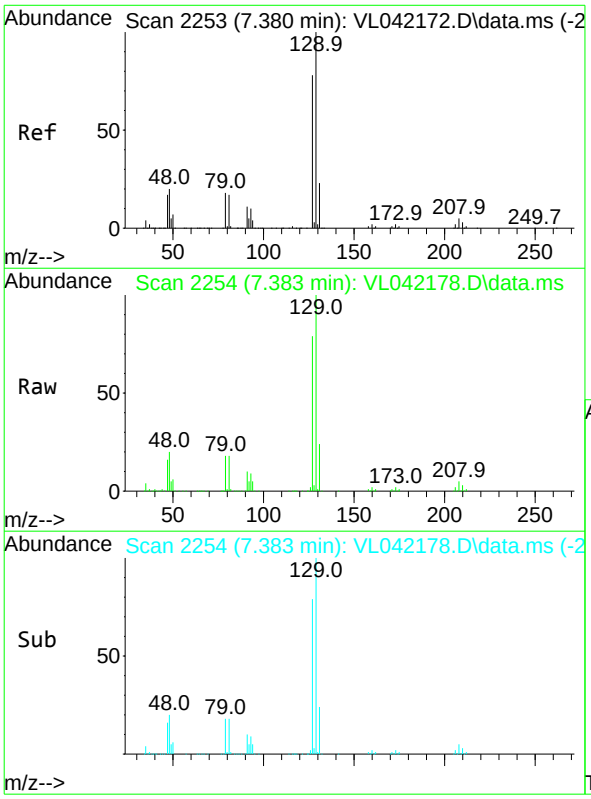
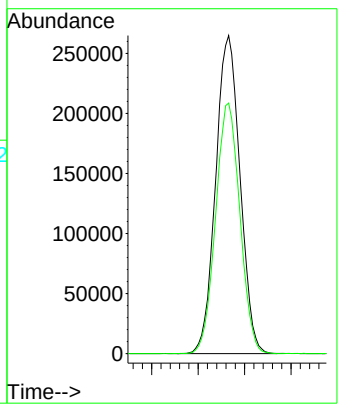
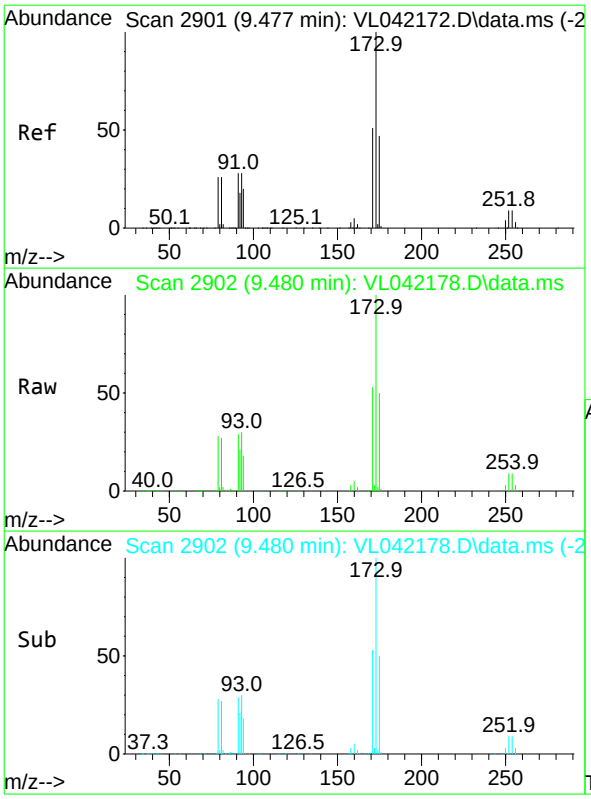



#48
Dibromochloromethane
Concen: 14.936 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:129 Resp: 482431

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.4 | 39.1 | 117.2 |

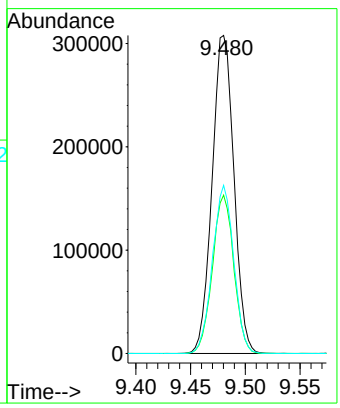





#49
Bromoform
Concen: 14.730 ppbv
RT: 9.480 min Scan# 29
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:173 Resp: 427143

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.9 | 38.6 | 57.8 |
| 171 | 51.5 | 41.8 | 62.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

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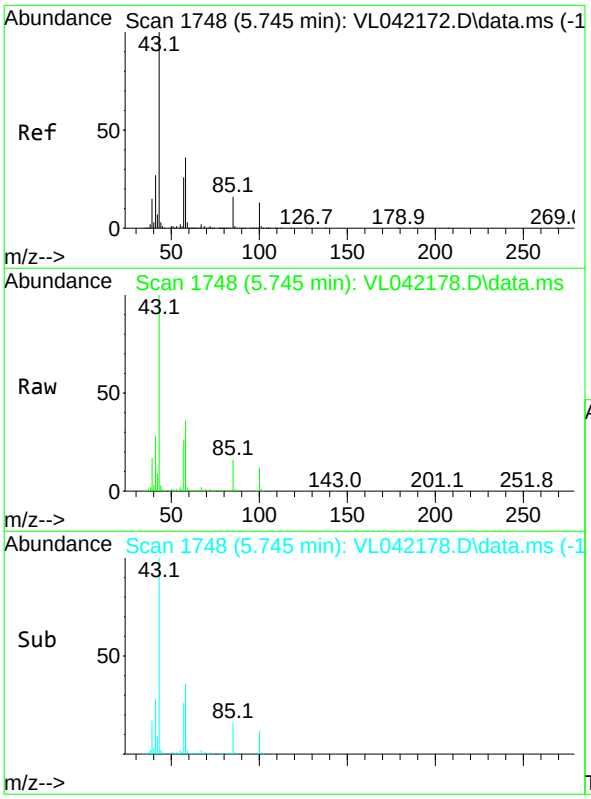
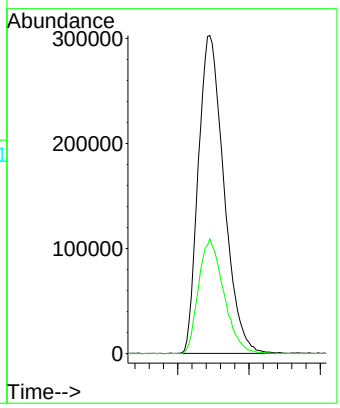
Supervised By :Mahesh Dadoda 04/03/2025

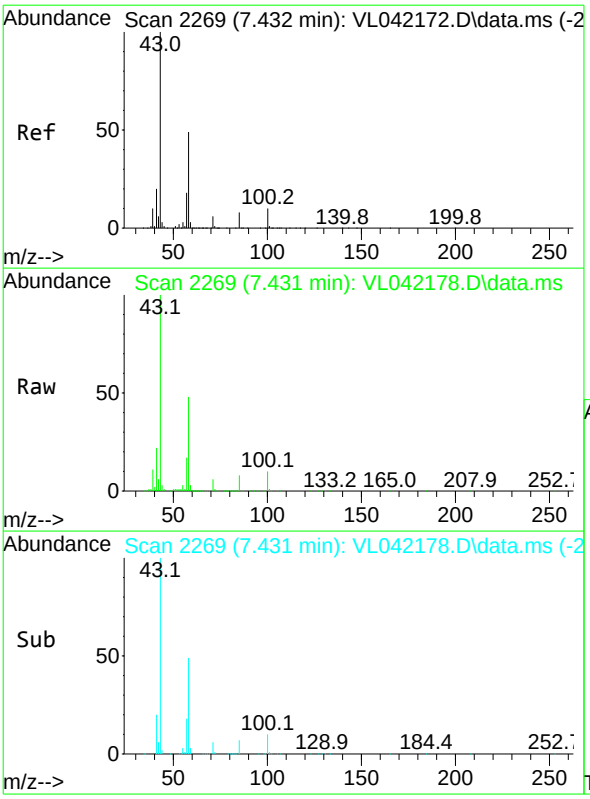



#50
4-Methyl-2-Pentanone
Concen: 13.155 ppbv
RT: 5.745 min Scan# 1748
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 43 Resp: 755146

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 35.5 | 29.0 | 43.6 |

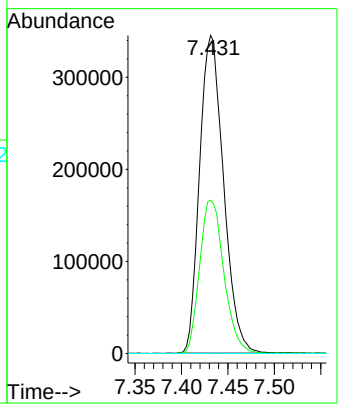





#51
2-Hexanone
Concen: 13.005 ppbv
RT: 7.431 min Scan# 22
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 43 Resp: 619419

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 49.0 | 39.7 | 59.5 |
| 98 | 0.0 | 0.1 | 0.1# |

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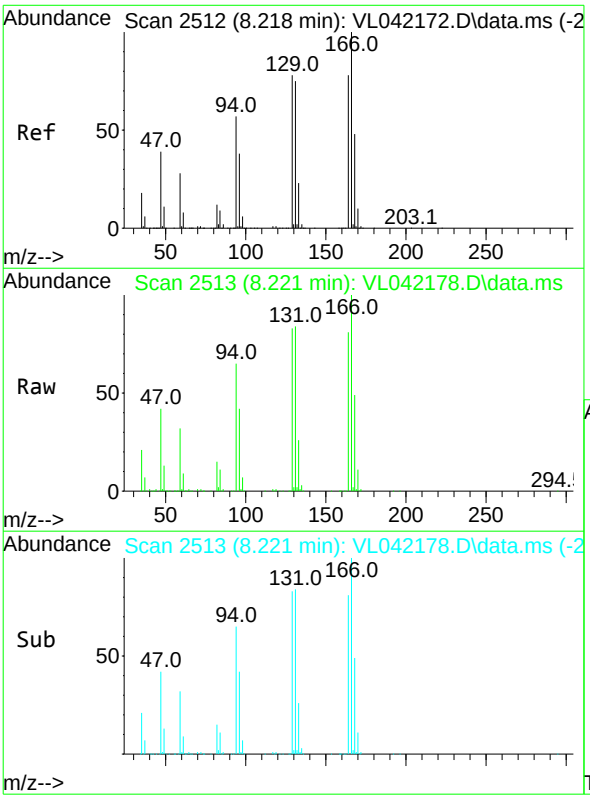
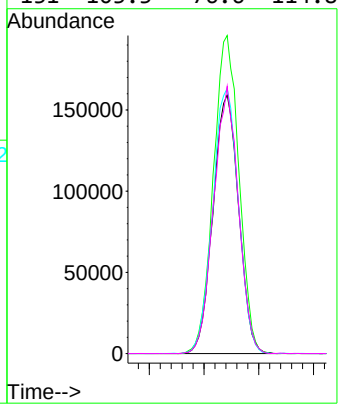
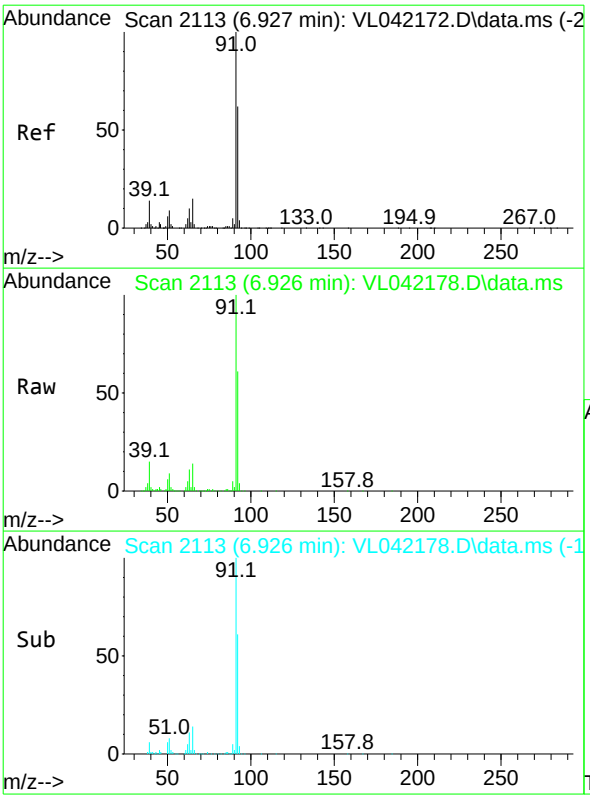



#52
Tetrachloroethene
Concen: 13.159 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:164 Resp: 258356

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 123.0 | 102.5 | 153.7 |
| 129 | 102.5 | 79.8 | 119.8 |
| 131 | 103.3 | 76.6 | 114.8 |

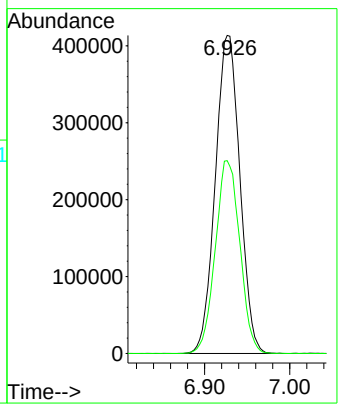





#53
Toluene
Concen: 14.137 ppbv
RT: 6.926 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 91 Resp: 829648

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 60.6 | 48.4 | 72.6 |

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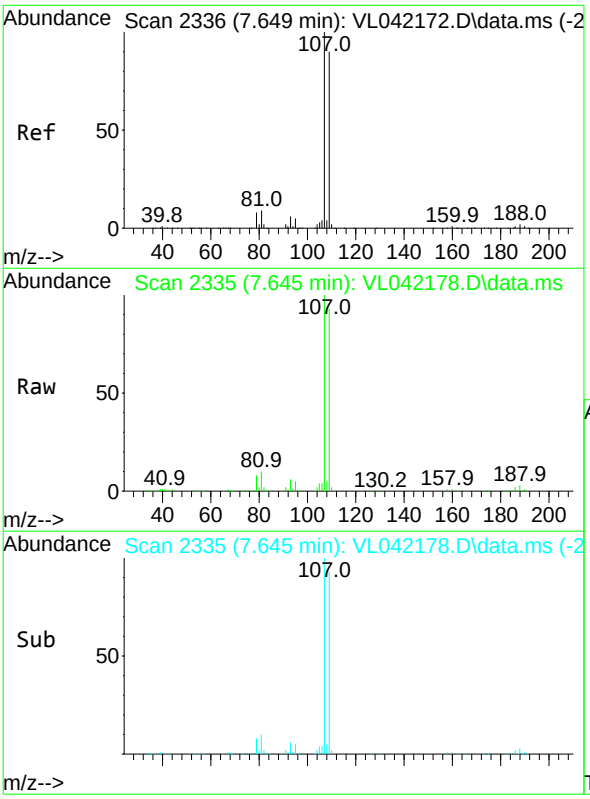
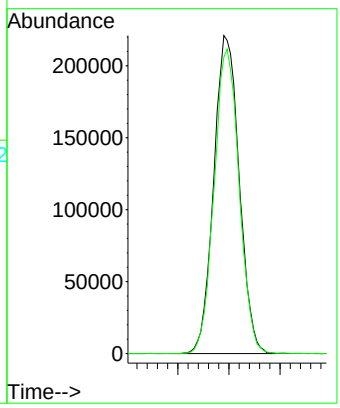
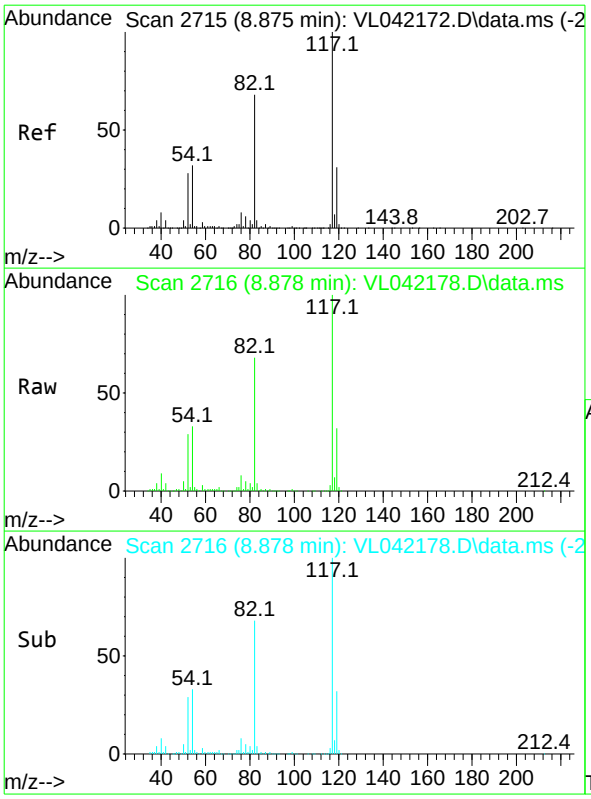



#54
1,2-Dibromoethane
Concen: 14.359 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.004 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:107 Resp: 381823

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 93.2 | 72.2 | 108.4 |

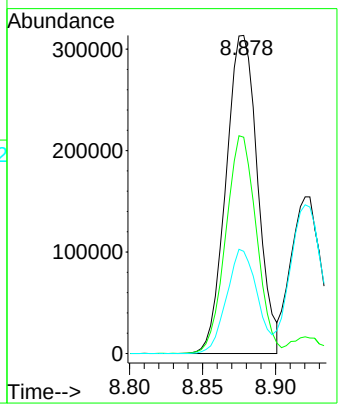





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 27
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:117 Resp: 473077

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 71.4 | 55.8 | 83.6 |
| 119 | 31.7 | 25.5 | 38.3 |




**Instrument :**
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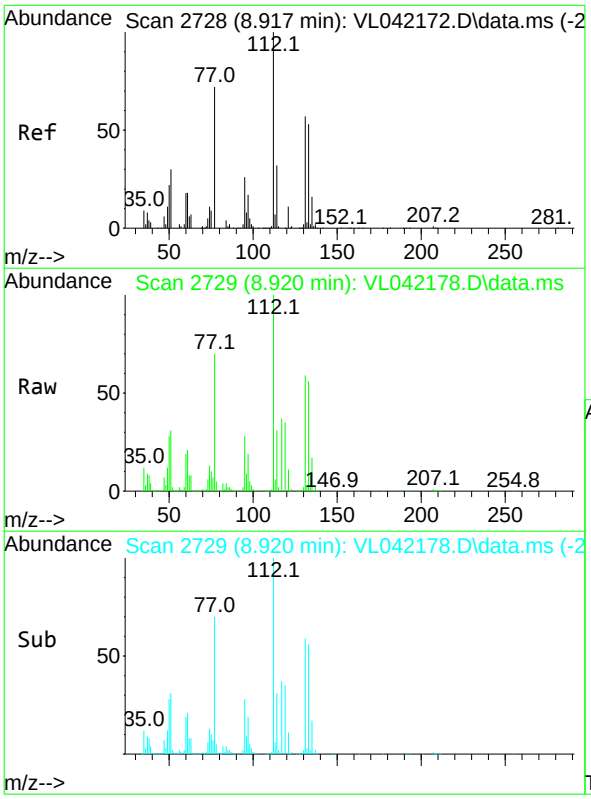
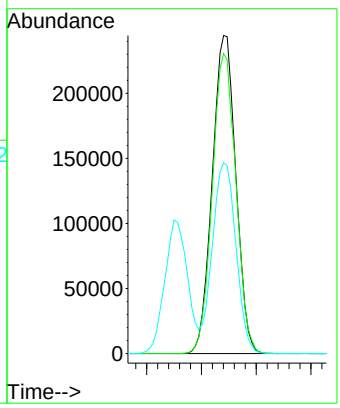
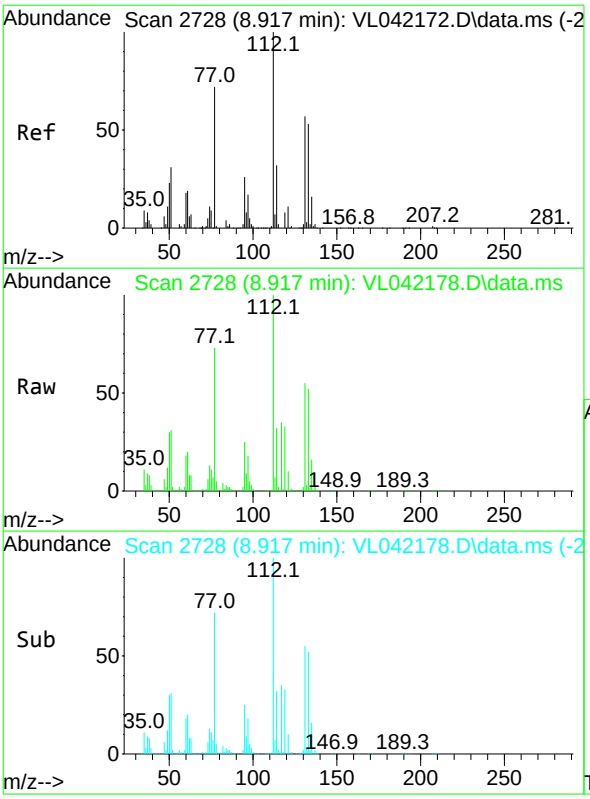



#56
1,1,1,2-Tetrachloroethane
Concen: 14.032 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:131 Resp: 365410

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.5 | 76.6 | 114.8 |
| 119 | 61.2 | 49.8 | 74.6 |

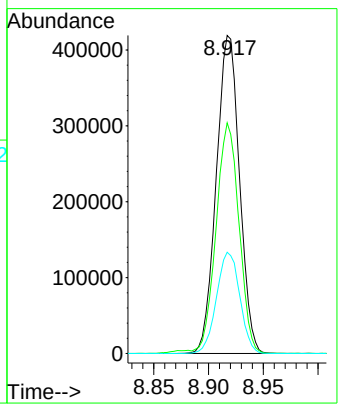





#57
Chlorobenzene
Concen: 13.777 ppbv
RT: 8.917 min Scan# 27
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:112 Resp: 618201

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 72.5 | 58.2 | 87.2 |
| 114 | 31.8 | 29.1 | 35.5 |




**Instrument :**
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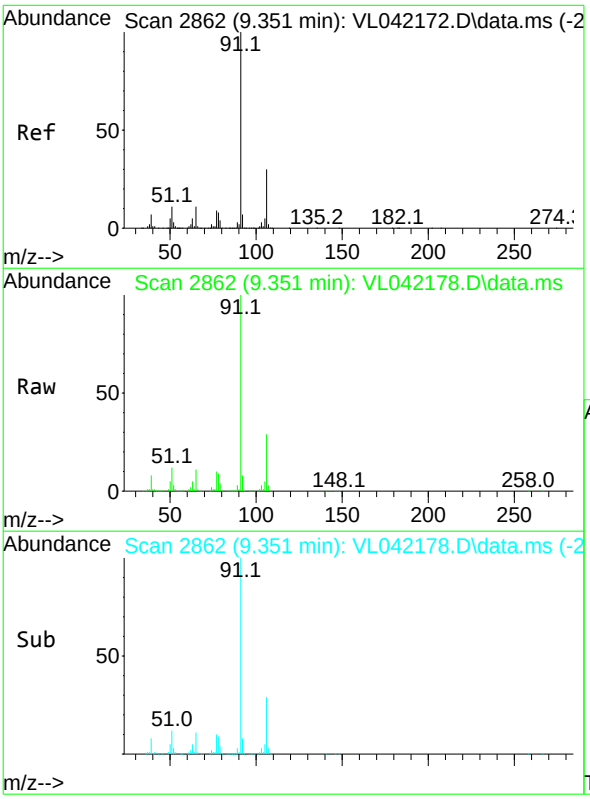
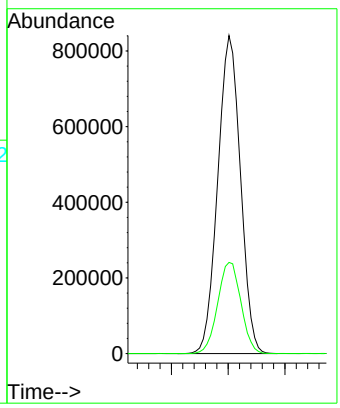
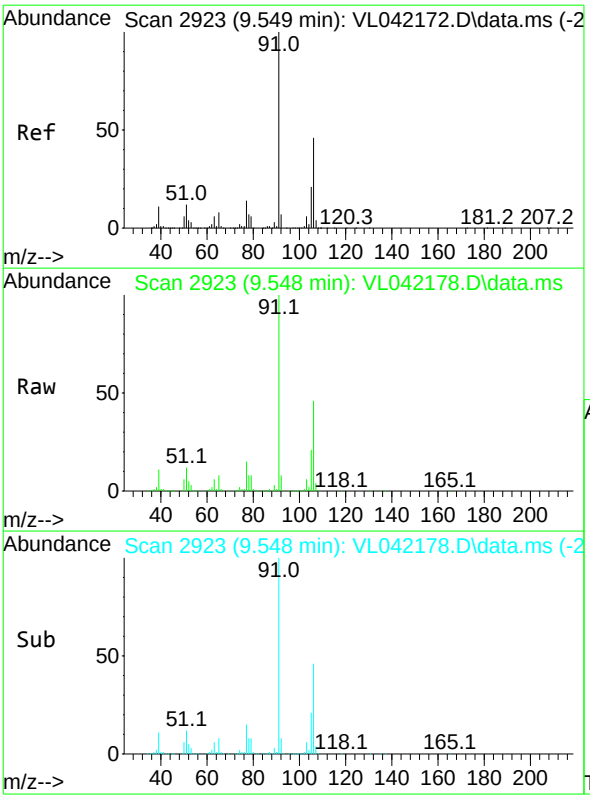



#58
Ethyl Benzene
Concen: 13.889 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 91 Resp: 1167096

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 28.7 | 24.2 | 36.2 |

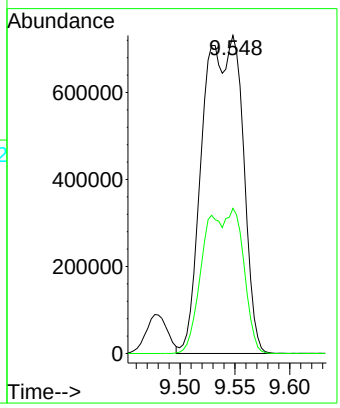





#59
m/p-Xylene
Concen: 27.651 ppbv m
RT: 9.548 min Scan# 29
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 91 Resp: 1857561

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 45.2 | 36.4 | 54.6 |

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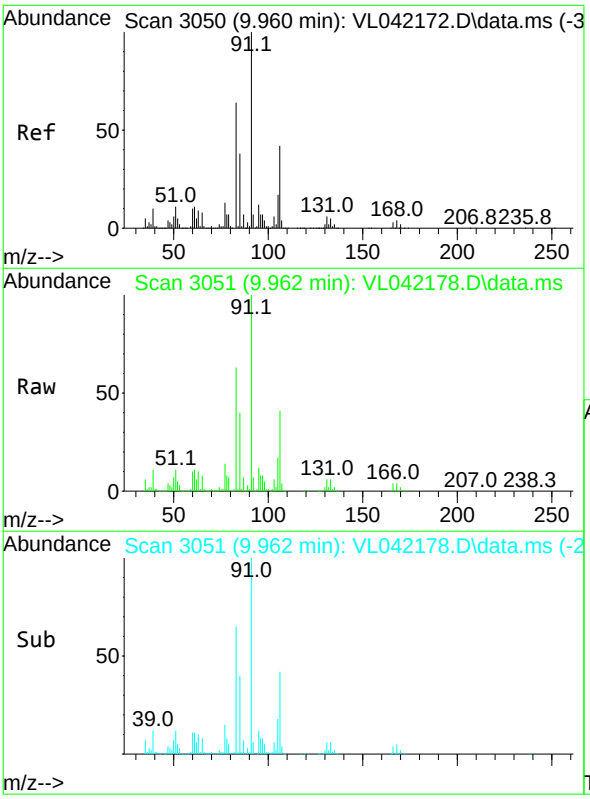
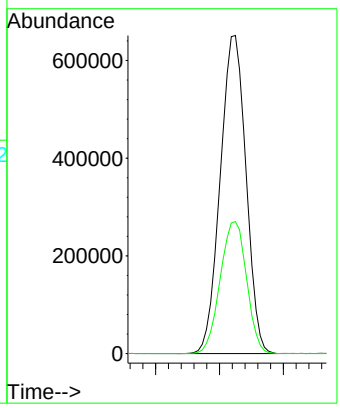
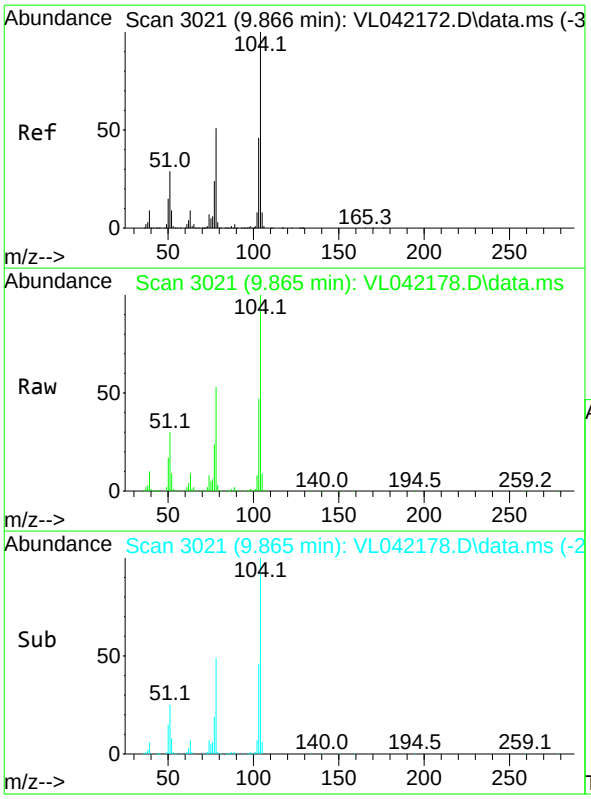



#60
o-Xylene
Concen: 13.577 ppbv
RT: 9.962 min Scan# 3051
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 91 Resp: 913234

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 42.4 | 20.8 | 62.5 |

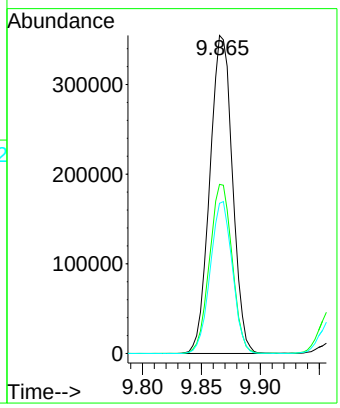





#61
Styrene
Concen: 14.250 ppbv
RT: 9.865 min Scan# 30
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:104 Resp: 474195

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 53.0 | 41.8 | 62.6 |
| 103 | 46.7 | 37.0 | 55.4 |

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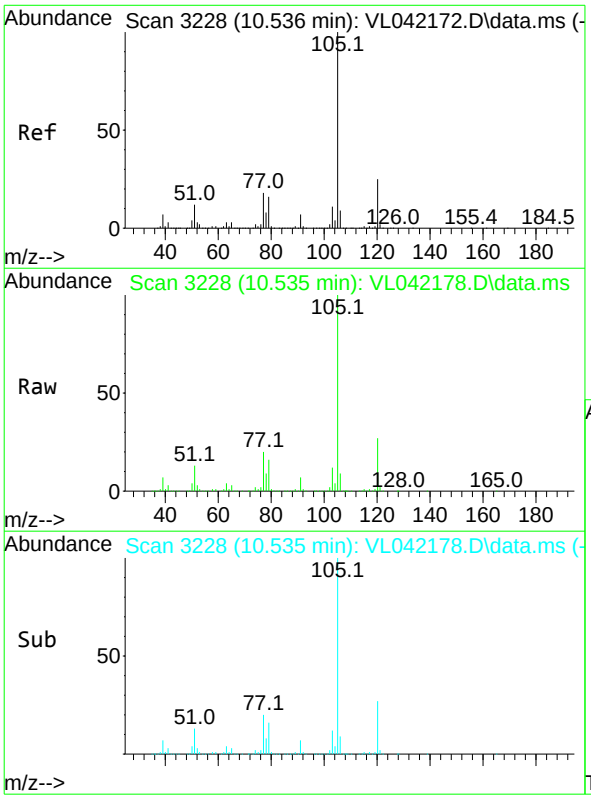
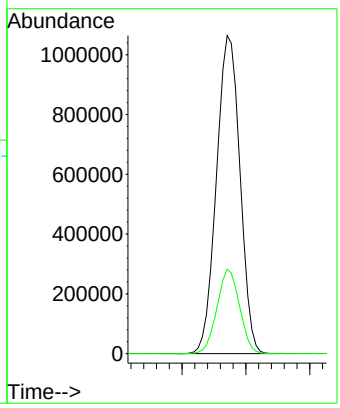
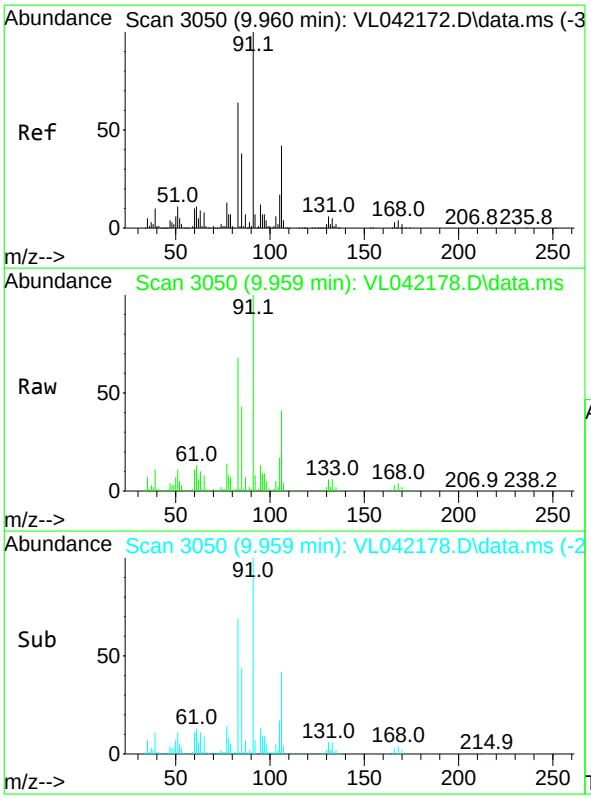



#62
Isopropylbenzene
Concen: 13.544 ppbv
RT: 10.535 min Scan# 3228
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:105 Resp: 1362416

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.3 | 19.9 | 29.9 |

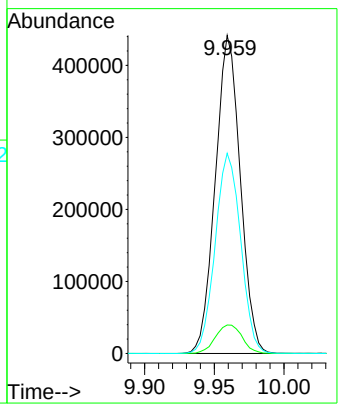





#63
1,1,2,2-Tetrachloroethane
Concen: 13.491 ppbv
RT: 9.959 min Scan# 30
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 83 Resp: 551386

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.6 | 4.8 | 14.4 |
| 85 | 64.2 | 32.5 | 97.5 |

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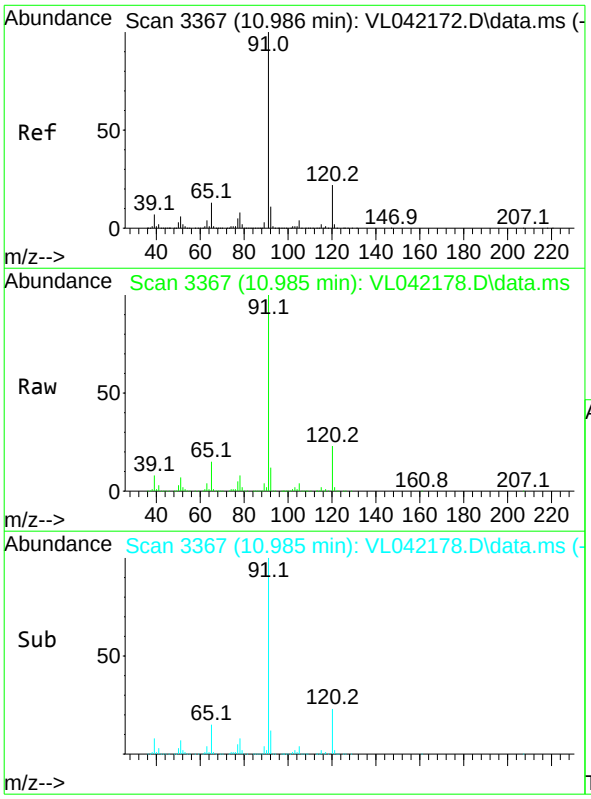
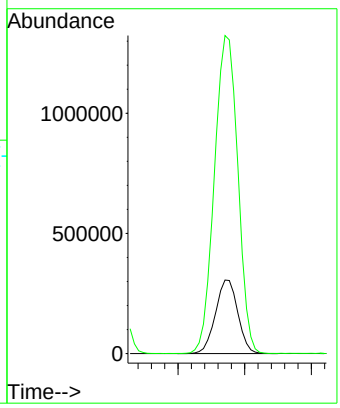
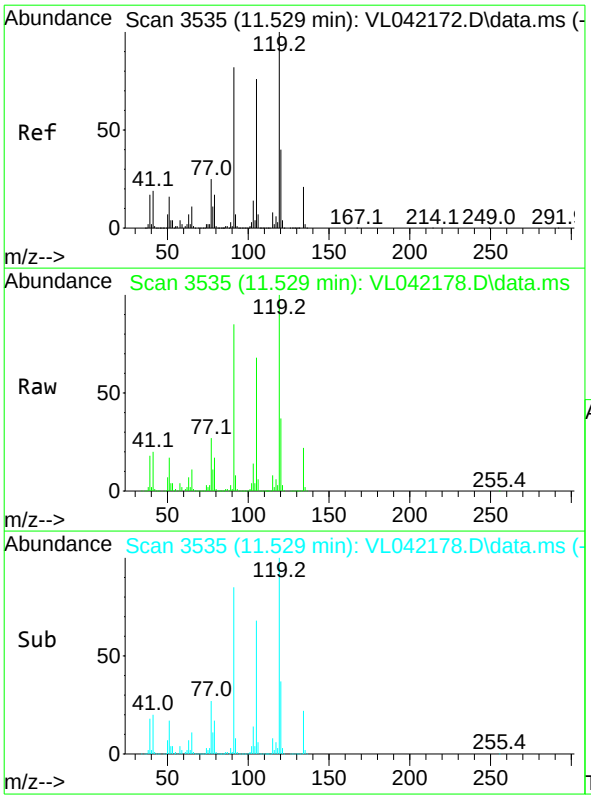



#64
n-propylbenzene
Concen: 13.753 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:120 Resp: 356118

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 455.4 | 376.9 | 565.3 |

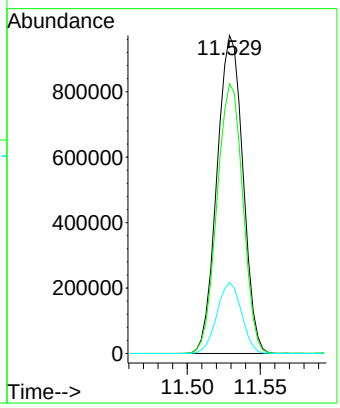





#65
tert-Butylbenzene
Concen: 12.901 ppbv
RT: 11.529 min Scan# 35
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:119 Resp: 1200149

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 84.6 | 66.0 | 99.0 |
| 134 | 21.2 | 16.7 | 25.1 |

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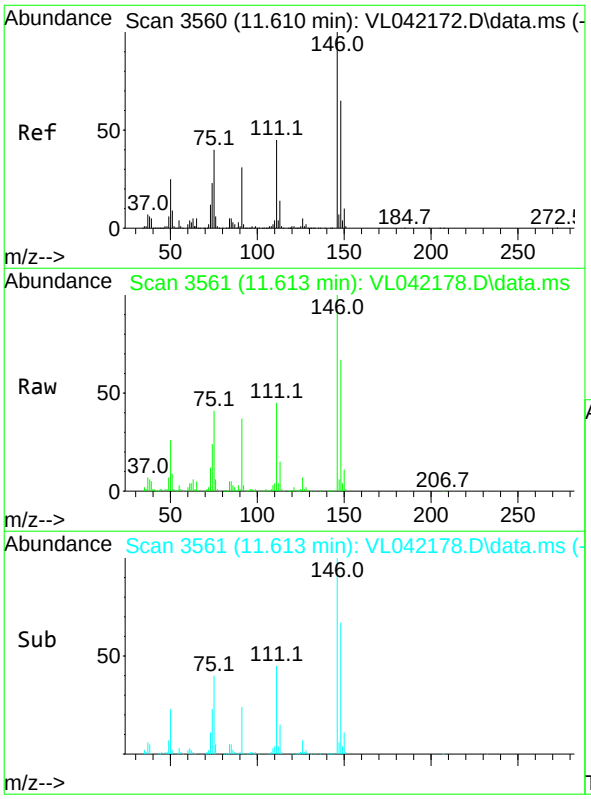
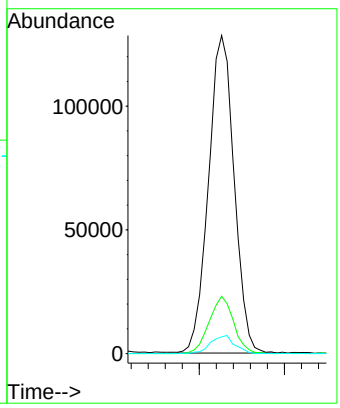
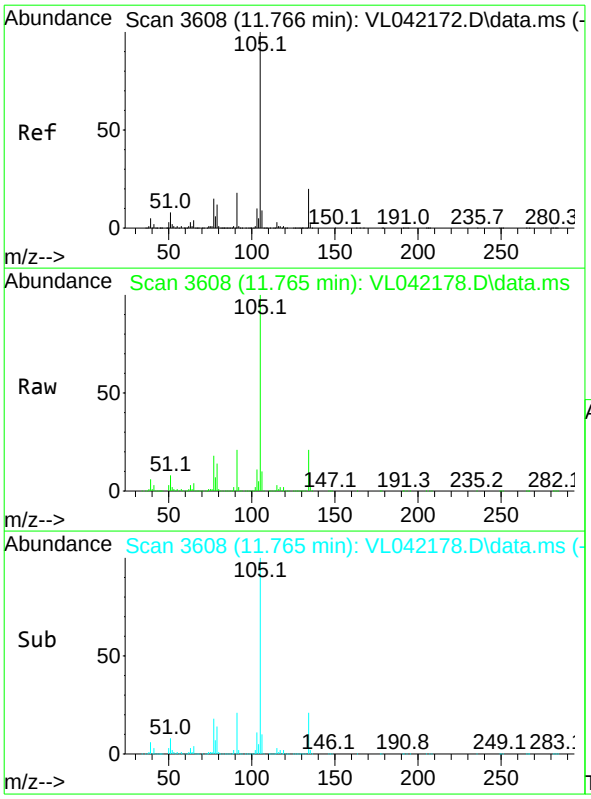



#66
Benzyl Chloride
Concen: 13.615 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 91 Resp: 134397

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 17.3 | 13.8 | 20.6 |
| 128 | 5.4 | 4.5 | 6.7 |

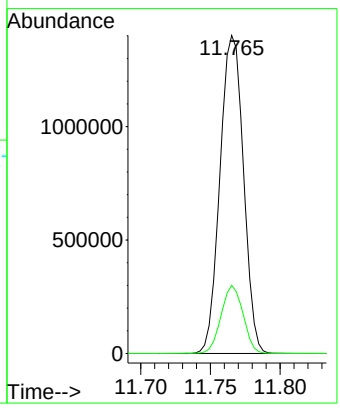





#67
sec-Butylbenzene
Concen: 12.711 ppbv
RT: 11.765 min Scan# 36
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:105 Resp: 1643629

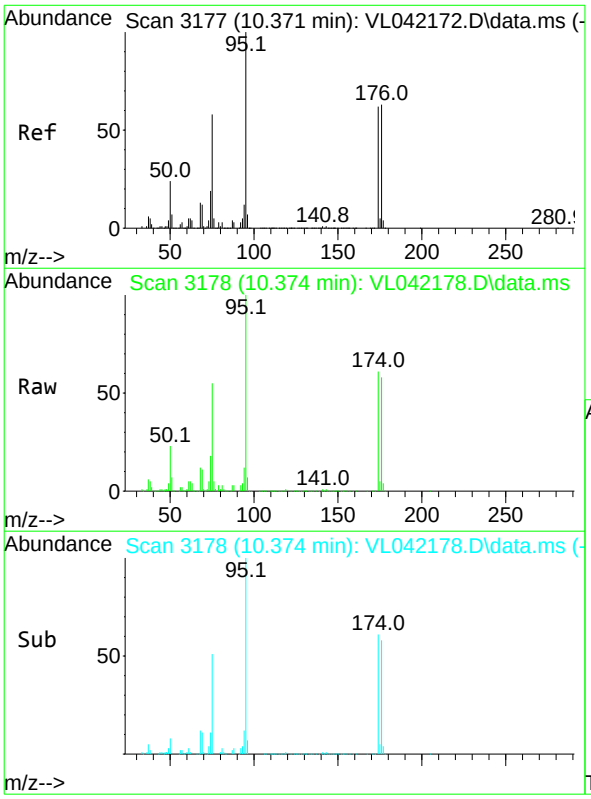
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 20.0 | 15.5 | 23.3 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

**Manual Integrations**
**APPROVED**

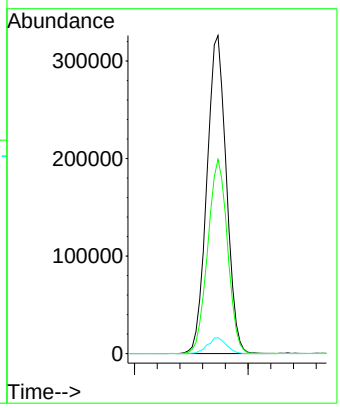
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

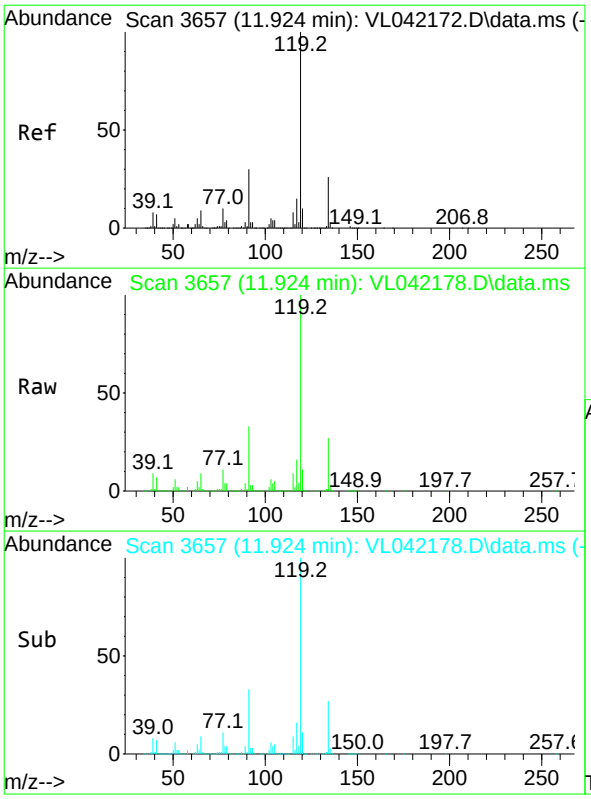



#68
1-Bromo-4-Fluorobenzene
Concen: 9.981 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 95 Resp: 387777

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 62.1 | 50.6 | 76.0 |
| 175 | 4.8 | 3.8 | 5.6 |






#69
p-Isopropyltoluene
Concen: 12.906 ppbv
RT: 11.924 min Scan# 36
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:119 Resp: 1437016

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.2 | 20.4 | 30.6 |
| 91 | 31.2 | 23.7 | 35.5 |

**Instrument :**
MSVOA_L
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VSTDICC015

**Manual Integrations**
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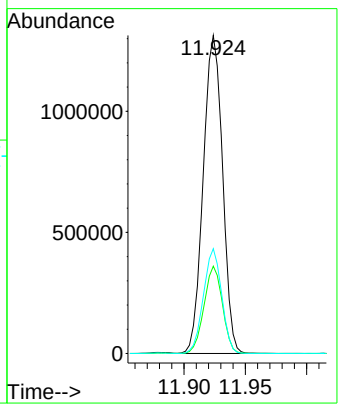
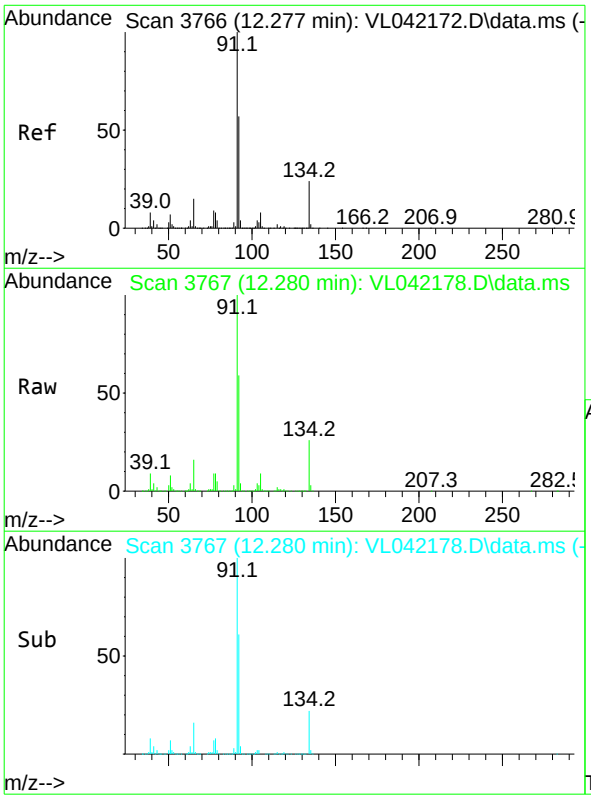
Supervised By :Mahesh Dadoda 04/03/2025

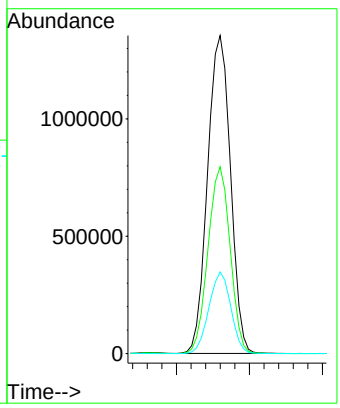


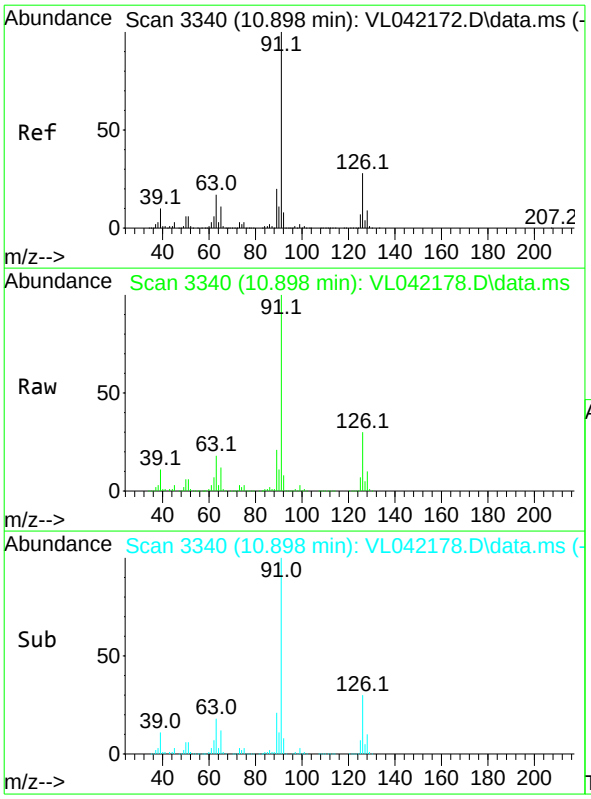




#70
n-Butylbenzene
Concen: 12.975 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 91 Resp: 1477443

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 57.0 | 44.9 | 67.3 |
| 134 | 24.6 | 19.2 | 28.8 |

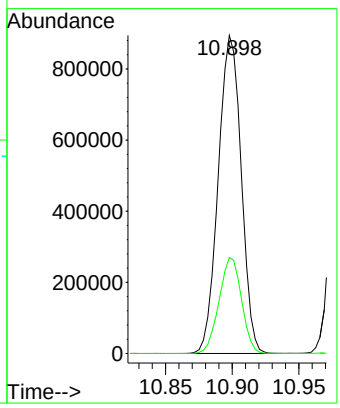





#71
2-Chlorotoluene
Concen: 13.724 ppbv
RT: 10.898 min Scan# 33
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 91 Resp: 1071432

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 29.5 | 11.6 | 46.4 |




**Instrument :**
MSVOA_L
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VSTDICC015

**Manual Integrations**
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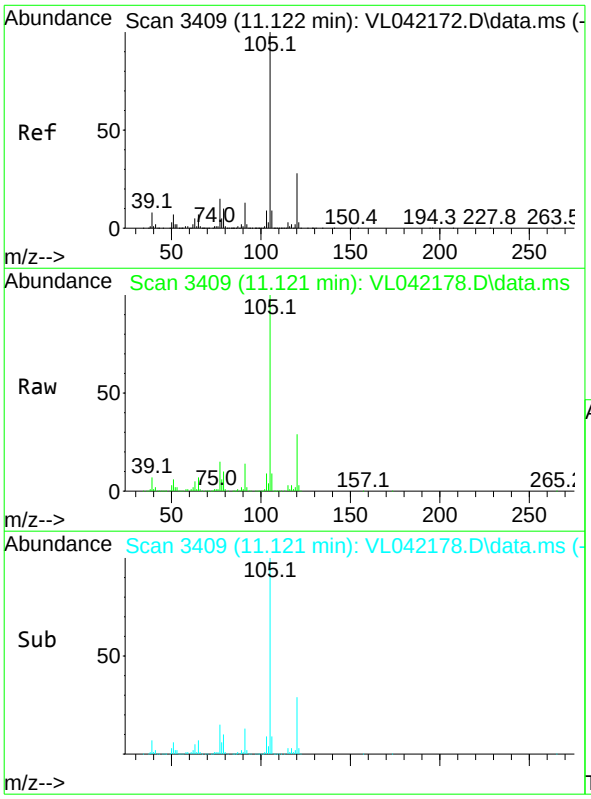
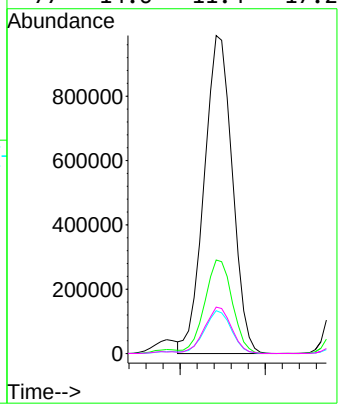
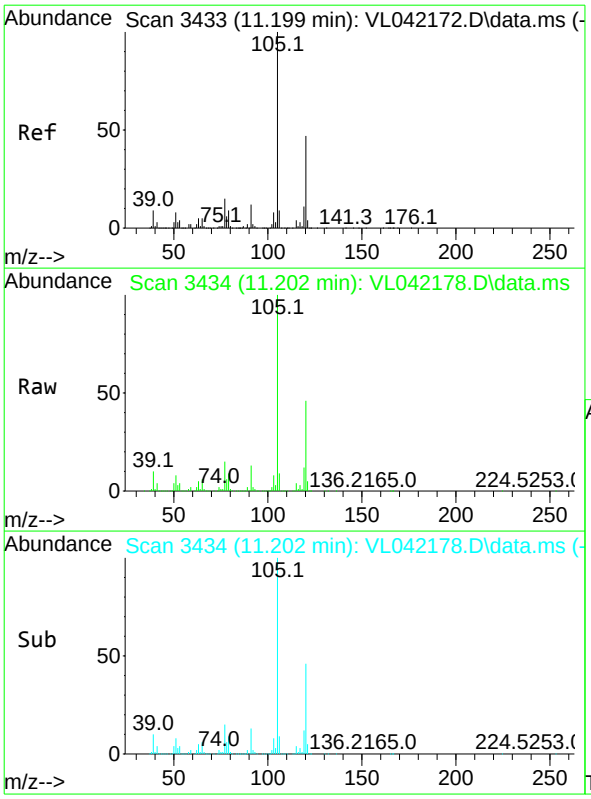



#72
4-Ethyltoluene
Concen: 13.569 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:105 Resp: 1136415

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 30.1 | 23.4 | 35.0 |
| 91 | 13.5 | 10.3 | 15.5 |
| 77 | 14.6 | 11.4 | 17.2 |

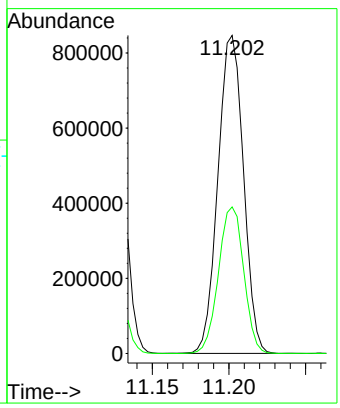





#73
1,3,5-Trimethylbenzene
Concen: 13.395 ppbv
RT: 11.202 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:105 Resp: 979783

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.1 | 37.4 | 56.0 |




**Instrument :**
MSVOA_L
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VSTDICC015

**Manual Integrations**
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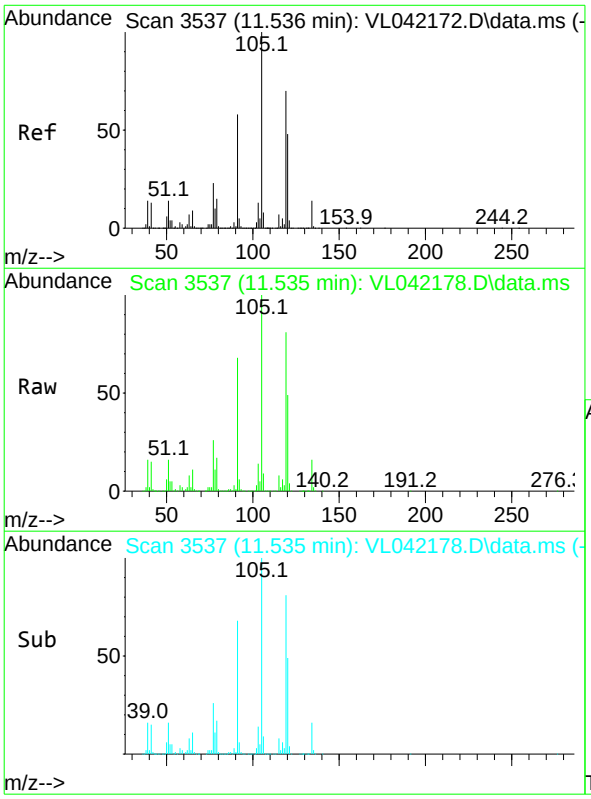
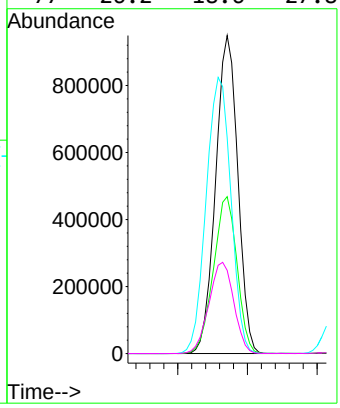
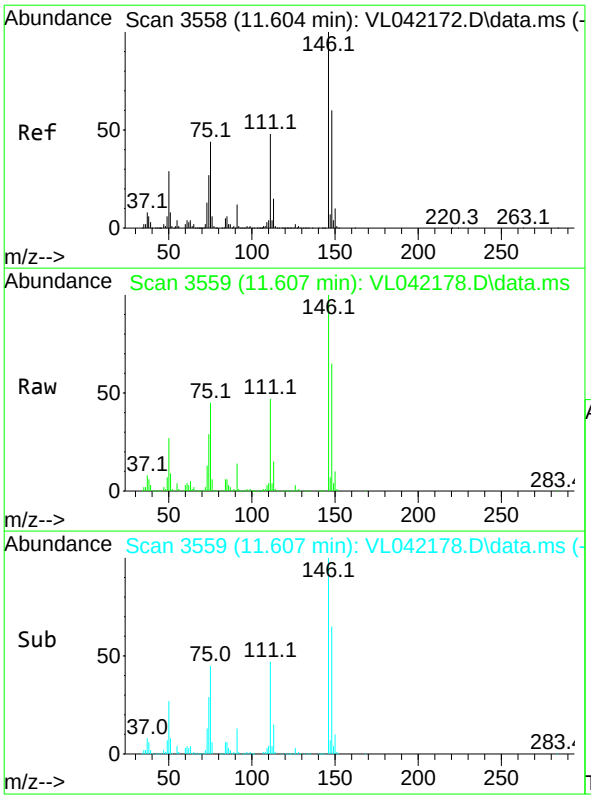



#74
1,2,4-Trimethylbenzene
Concen: 12.447 ppbv
RT: 11.535 min Scan# 3537
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:105 Resp: 1048874

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 49.3 | 38.6 | 58.0 |
| 91 | 67.8 | 46.2 | 69.2 |
| 77 | 26.2 | 18.6 | 27.8 |

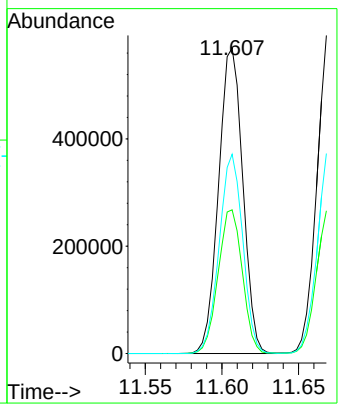





#75
1,3-Dichlorobenzene
Concen: 13.545 ppbv
RT: 11.607 min Scan# 35
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:146 Resp: 626015

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 47.0 | 23.8 | 71.2 |
| 148 | 63.5 | 31.9 | 95.9 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

**Manual Integrations**
**APPROVED**

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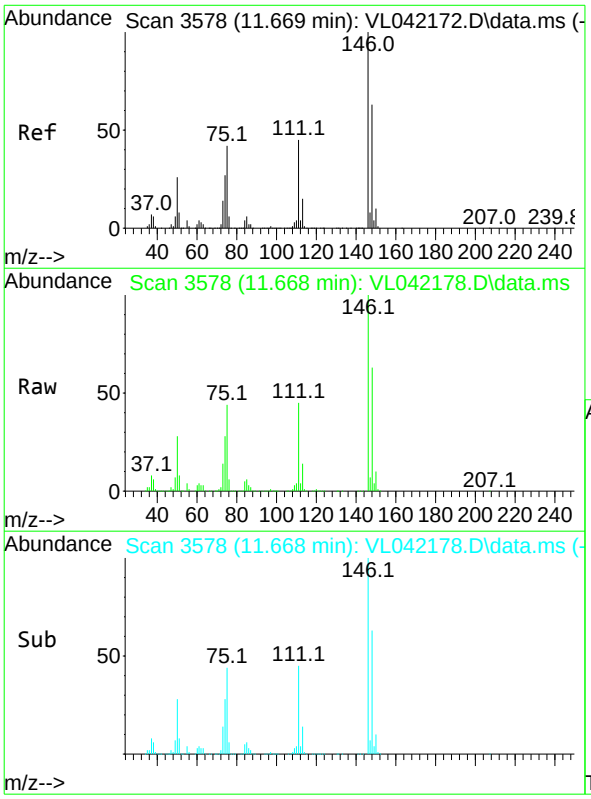
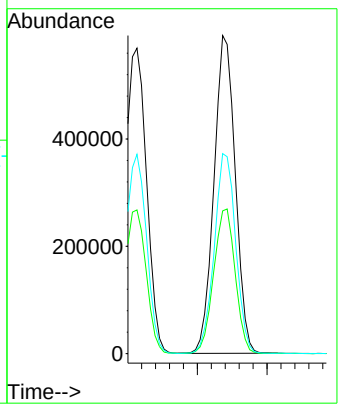
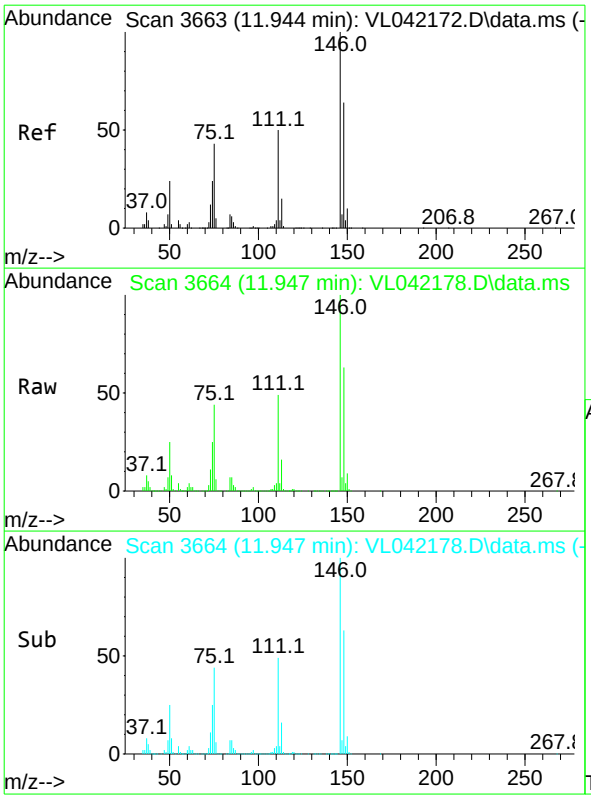



#76
1,4-Dichlorobenzene
Concen: 13.668 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:146 Resp: 628694

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 46.1 | 23.0 | 69.0 |
| 148 | 63.6 | 31.9 | 95.7 |

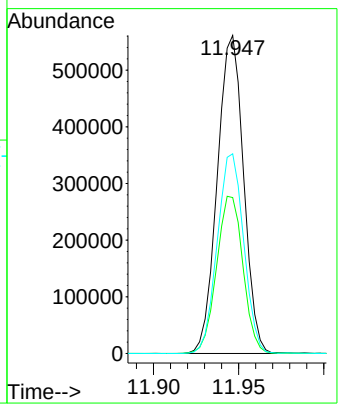





#77
1,2-Dichlorobenzene
Concen: 13.396 ppbv
RT: 11.947 min Scan# 36
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:146 Resp: 602844

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 49.7 | 24.8 | 74.3 |
| 148 | 63.3 | 31.6 | 94.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

**Manual Integrations APPROVED**

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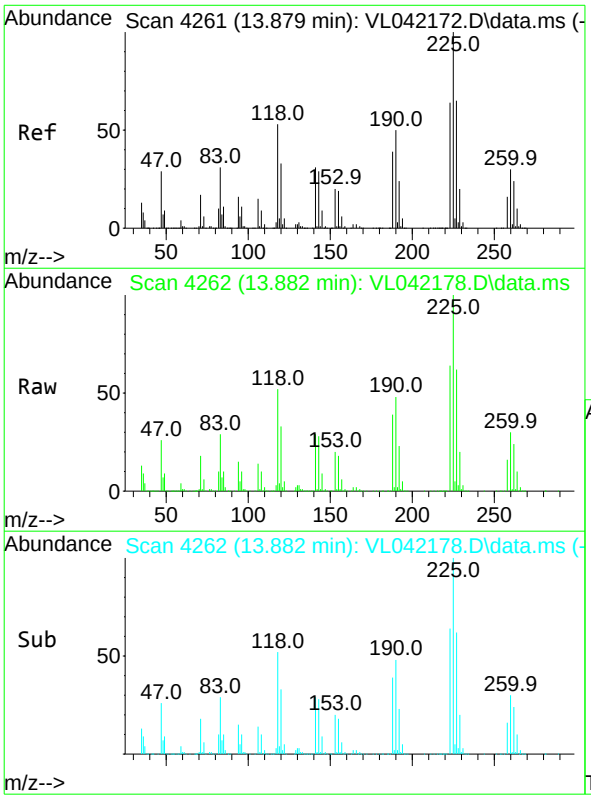
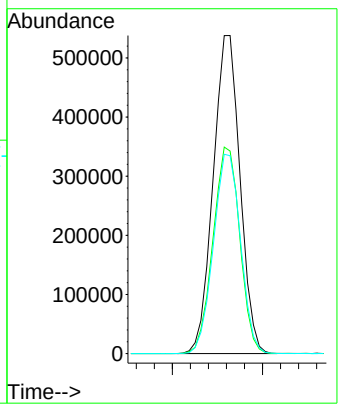
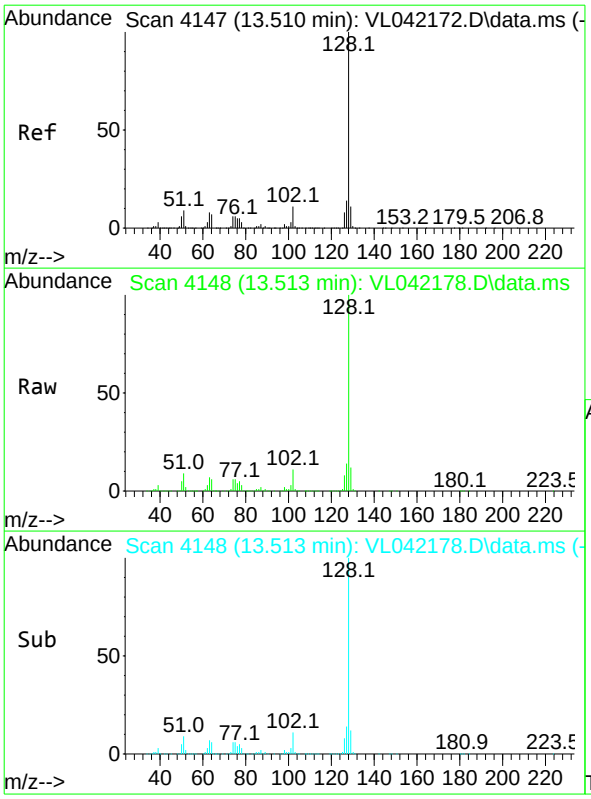



#78
Hexachloro-1,3-Butadiene
Concen: 12.147 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:225 Resp: 556392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 64.7 | 50.6 | 76.0 |
| 227 | 63.3 | 51.2 | 76.8 |






#79
Naphthalene
Concen: 13.653 ppbv
RT: 13.513 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:128 Resp: 1258479

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.8 | 10.8 | 16.2 |
| 129 | 12.2 | 9.0 | 13.4 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

**Manual Integrations**
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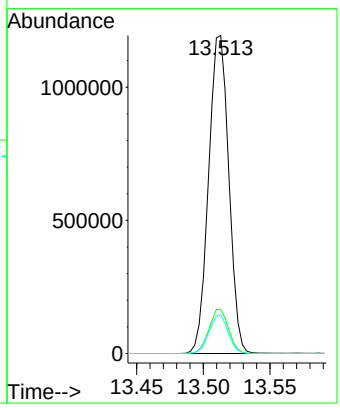
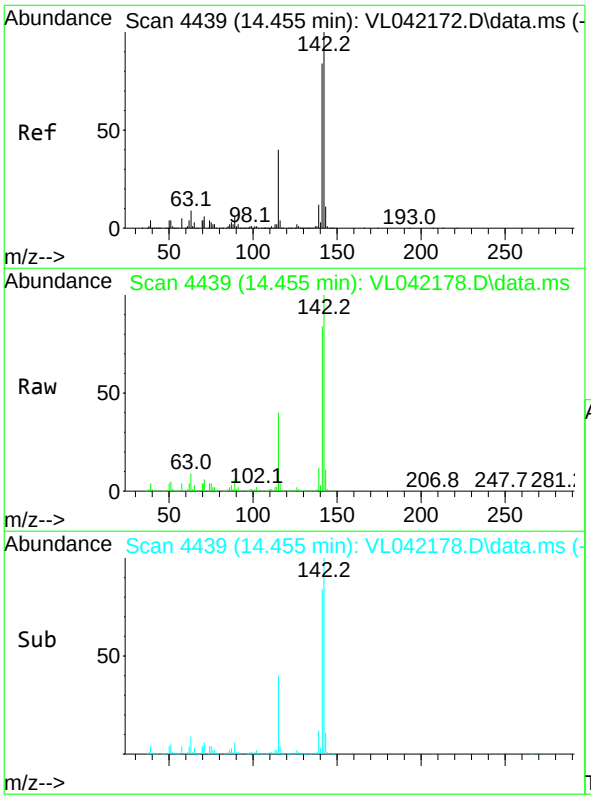
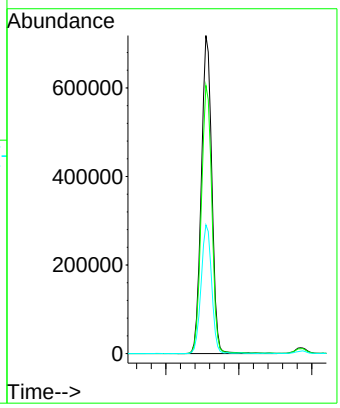


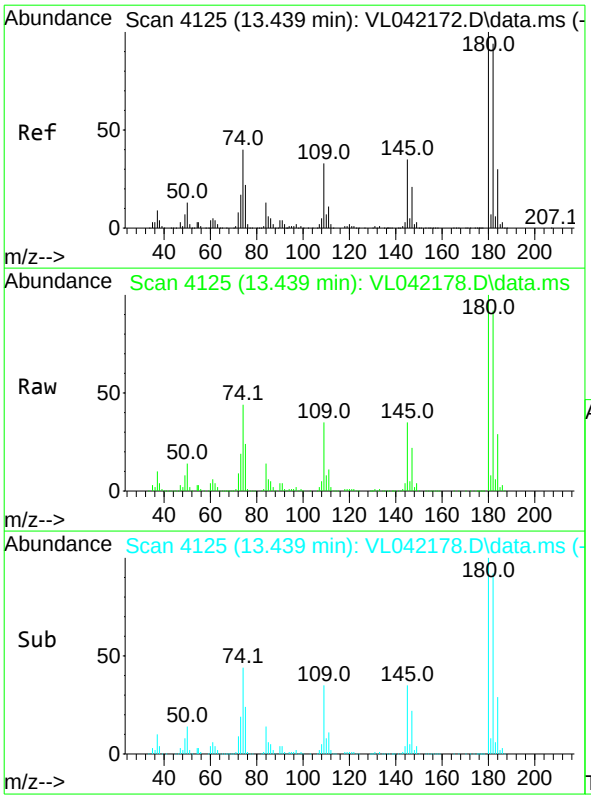




#80
Naphthalene,2-methyl-
Concen: 16.018 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:142 Resp: 718900

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 84.3 | 66.3 | 99.5 |
| 115 | 40.6 | 31.6 | 47.4 |

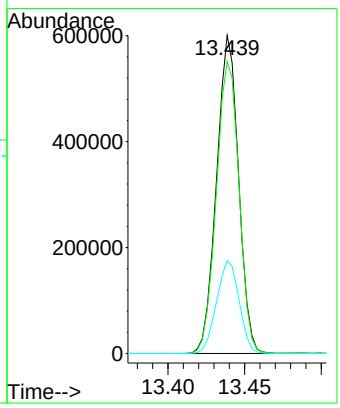





#81
1,2,4-Trichlorobenzene
Concen: 14.075 ppbv
RT: 13.439 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:180 Resp: 598416

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.7 | 75.1 | 112.7 |
| 184 | 30.1 | 24.4 | 36.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042179.D
Acq On : 27 Mar 2025 12:23
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 28 02:05:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.784 | 49 | 174350 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.952 | 114 | 498105 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.878 | 117 | 473357 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.374 | 95 | 379929 | 9.774 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 97.700% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.496 | 85 | 245714 | 9.545 | ppbv | 100 |
| 3) Chlorodifluoromethane | 1.473 | 51 | 247046 | 9.394 | ppbv | 97 |
| 4) Chloromethane | 1.531 | 50 | 98527 | 9.365 | ppbv | 98 |
| 5) Vinyl Chloride | 1.577 | 62 | 95578 | 8.573 | ppbv | 97 |
| 6) Bromomethane | 1.667 | 94 | 41950 | 8.799 | ppbv | 97 |
| 7) Chloroethane | 1.703 | 64 | 37400 | 8.856 | ppbv | 94 |
| 8) Dichlorotetrafluoroethane | 1.551 | 85 | 213819 | 9.753 | ppbv | 95 |
| 9) Propene | 1.483 | 41 | 105338 | 8.739 | ppbv | 99 |
| 10) Heptane | 4.972 | 43 | 298768 | 9.318 | ppbv | 100 |
| 11) Trichlorofluoromethane | 1.874 | 101 | 236793 | 9.453 | ppbv | 97 |
| 12) 1,1,2-Trichlorotrifluo... | 2.136 | 101 | 193965 | 9.421 | ppbv | 98 |
| 13) Ethanol | 1.719 | 45 | 5773 | 5.066 | ppbv | 97 |
| 14) Bromoethene | 1.780 | 108 | 73572 | 9.328 | ppbv | 97 |
| 15) Acetone | 1.832 | 43 | 198300 | 8.132 | ppbv | 98 |
| 16) 1,3-Butadiene | 1.606 | 39 | 97840 | 8.216 | ppbv | 99 |
| 17) tert-Butyl alcohol | 2.039 | 59 | 276195 | 9.094 | ppbv | 99 |
| 18) 1,1-Dichloroethene | 2.033 | 96 | 87137 | 9.053 | ppbv | 89 |
| 19) Isopropyl Alcohol | 1.884 | 45 | 122768 | 8.923 | ppbv | 98 |
| 20) Methylene Chloride | 2.059 | 84 | 72813 | 8.018 | ppbv | 97 |
| 21) Allyl Chloride | 2.094 | 41 | 157418 | 9.154 | ppbv | 99 |
| 22) trans-1,2-Dichloroethene | 2.337 | 96 | 101141 | 9.092 | ppbv | 93 |
| 23) Vinyl Acetate | 2.460 | 43 | 90260 | 8.553 | ppbv # | 97 |
| 24) 1,1-Dichloroethane | 2.405 | 63 | 197968 | 9.600 | ppbv | 99 |
| 25) Ethyl Acetate | 2.832 | 43 | 592585 | 9.364 | ppbv | 99 |
| 26) Hexane | 2.823 | 57 | 231125 | 9.455 | ppbv | 99 |
| 27) Carbon Disulfide | 2.146 | 76 | 248834 | 9.493 | ppbv | 97 |
| 28) Methyl tert-Butyl Ether | 2.437 | 73 | 146470 | 9.624 | ppbv | 95 |
| 29) Chloroform | 2.845 | 83 | 344106 | 9.619 | ppbv | 100 |
| 30) Cyclohexane | 3.852 | 84 | 197897 | 9.323 | ppbv | 98 |
| 31) cis-1,2-Dichloroethene | 2.719 | 61 | 234487 | 9.449 | ppbv | 96 |
| 32) 1,1,1-Trichloroethane | 3.363 | 97 | 365364 | 8.921 | ppbv | 99 |
| 34) 2-Butanone | 2.554 | 43 | 331236 | 9.171 | ppbv | 99 |
| 35) Carbon Tetrachloride | 3.758 | 117 | 363392 | 9.339 | ppbv | 98 |
| 36) Benzene | 3.651 | 78 | 461261 | 9.341 | ppbv | 99 |
| 37) 1,2-Dichloroethane | 3.217 | 62 | 273559 | 9.676 | ppbv | 99 |
| 38) Trichloroethene | 4.541 | 130 | 191746 | 9.306 | ppbv | 97 |
| 39) 1,2-Dichloropropane | 4.311 | 63 | 170839 | 9.500 | ppbv | 95 |
| 40) 1,4-Dioxane | 4.577 | 88 | 80592 | 8.443 | ppbv # | 97 |
| 41) Tetrahydrofuran | 3.052 | 42 | 196163 | 9.431 | ppbv | 99 |
| 42) Bromodichloromethane | 4.486 | 83 | 384006 | 9.853 | ppbv | 100 |
| 43) Methyl Methacrylate | 4.878 | 69 | 195339 | 9.344 | ppbv | 99 |
| 44) 2,2,4-Trimethylpentane | 4.635 | 57 | 787400 | 9.436 | ppbv | 99 |
| 45) t-1,3-Dichloropropene | 6.409 | 75 | 212335 | 9.467 | ppbv | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042179.D
Acq On : 27 Mar 2025 12:23
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 28 02:05:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.593 | 75 | 265101 | 9.643 | ppbv | | 98 |
| 47) 1,1,2-Trichloroethane | 6.577 | 97 | 183228 | 9.638 | ppbv | | 98 |
| 48) Dibromochloromethane | 7.383 | 129 | 322766 | 10.018 | ppbv | | 100 |
| 49) Bromoform | 9.480 | 173 | 285149 | 9.858 | ppbv | | 99 |
| 50) 4-Methyl-2-Pentanone | 5.749 | 43 | 500791 | 8.749 | ppbv | | 99 |
| 51) 2-Hexanone | 7.432 | 43 | 410889 | 8.741 | ppbv | # | 99 |
| 52) Tetrachloroethene | 8.221 | 164 | 173420 | 8.855 | ppbv | | 93 |
| 53) Toluene | 6.927 | 91 | 556897 | 9.514 | ppbv | | 99 |
| 54) 1,2-Dibromoethane | 7.645 | 107 | 256930 | 9.695 | ppbv | | 98 |
| 56) 1,1,1,2-Tetrachloroethane | 8.920 | 131 | 249270 | 9.567 | ppbv | | 99 |
| 57) Chlorobenzene | 8.917 | 112 | 422531 | 9.411 | ppbv | | 98 |
| 58) Ethyl Benzene | 9.351 | 91 | 791360 | 9.412 | ppbv | | 98 |
| 59) m/p-Xylene | 9.548 | 91 | 1260340m | 18.772 | ppbv | | |
| 60) o-Xylene | 9.959 | 91 | 632918 | 9.404 | ppbv | | 99 |
| 61) Styrene | 9.866 | 104 | 315910 | 9.488 | ppbv | | 99 |
| 62) Isopropylbenzene | 10.539 | 105 | 944938 | 9.388 | ppbv | | 100 |
| 63) 1,1,2,2-Tetrachloroethane | 9.959 | 83 | 382635 | 9.357 | ppbv | | 99 |
| 64) n-propylbenzene | 10.985 | 120 | 244547 | 9.439 | ppbv | | 98 |
| 65) tert-Butylbenzene | 11.529 | 119 | 843828 | 9.065 | ppbv | | 98 |
| 66) Benzyl Chloride | 11.613 | 91 | 86804 | 8.789 | ppbv | | 97 |
| 67) sec-Butylbenzene | 11.765 | 105 | 1172636 | 9.063 | ppbv | | 100 |
| 69) p-Isopropyltoluene | 11.924 | 119 | 1019694 | 9.153 | ppbv | | 100 |
| 70) n-Butylbenzene | 12.280 | 91 | 1038548 | 9.115 | ppbv | | 100 |
| 71) 2-Chlorotoluene | 10.898 | 91 | 732874 | 9.382 | ppbv | | 100 |
| 72) 4-Ethyltoluene | 11.125 | 105 | 785185 | 9.370 | ppbv | | 99 |
| 73) 1,3,5-Trimethylbenzene | 11.202 | 105 | 673541 | 9.203 | ppbv | | 98 |
| 74) 1,2,4-Trimethylbenzene | 11.536 | 105 | 729155 | 8.648 | ppbv | | 94 |
| 75) 1,3-Dichlorobenzene | 11.607 | 146 | 426573 | 9.224 | ppbv | | 99 |
| 76) 1,4-Dichlorobenzene | 11.672 | 146 | 426318 | 9.263 | ppbv | | 100 |
| 77) 1,2-Dichlorobenzene | 11.947 | 146 | 412180 | 9.154 | ppbv | | 99 |
| 78) Hexachloro-1,3-Butadiene | 13.882 | 225 | 356386 | 7.776 | ppbv | | 100 |
| 79) Naphthalene | 13.513 | 128 | 773311 | 8.385 | ppbv | | 99 |
| 80) Naphthalene,2-methyl- | 14.455 | 142 | 323443 | 7.151 | ppbv | | 99 |
| 81) 1,2,4-Trichlorobenzene | 13.439 | 180 | 363863 | 8.553 | ppbv | | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

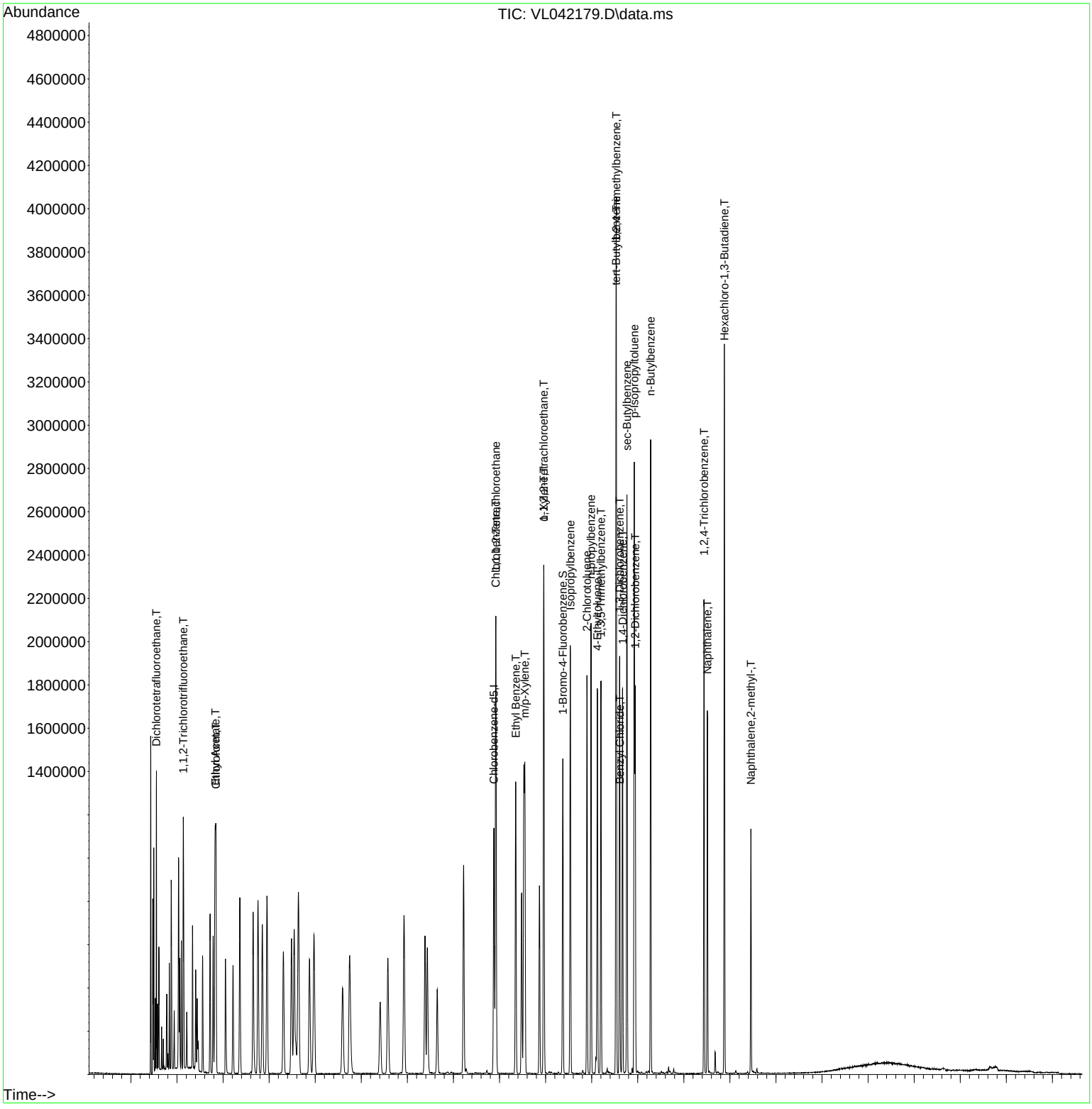
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042179.D
Acq On : 27 Mar 2025 12:23
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

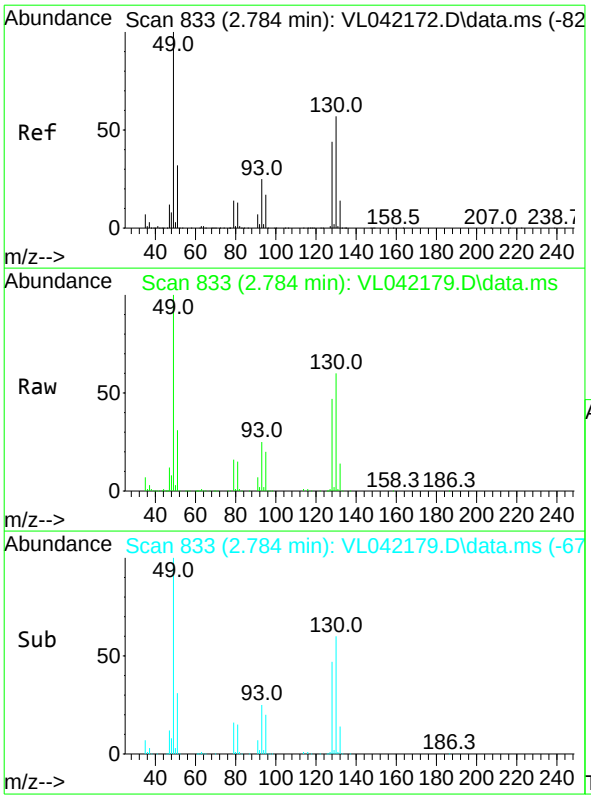
Quant Time: Mar 28 02:05:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

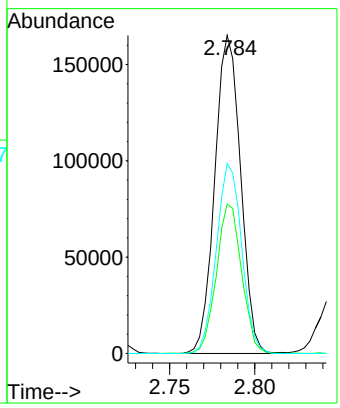





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 83
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 49 Resp: 174350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 45.8 | 22.9 | 68.5 |
| 130 | 58.4 | 28.8 | 86.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 03/31/2025
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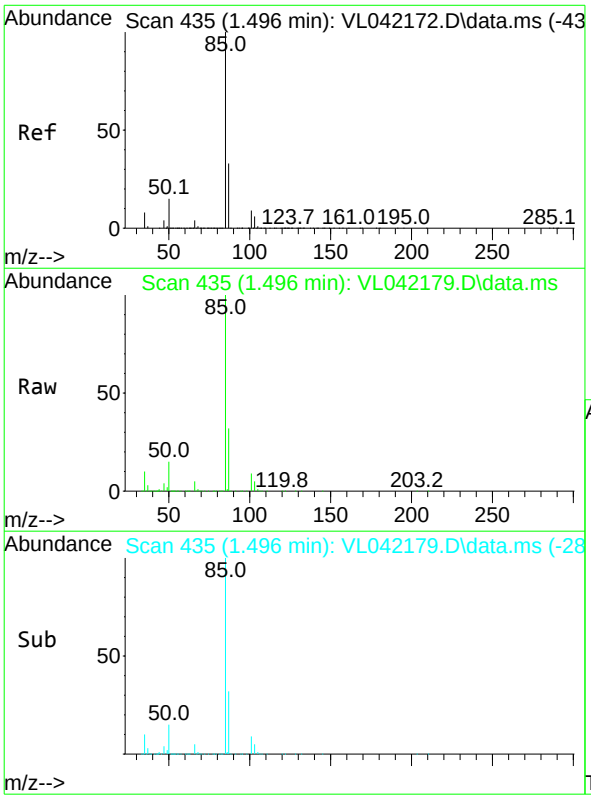
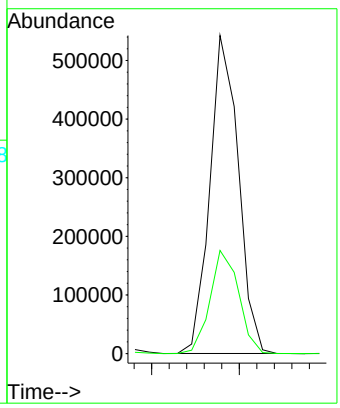
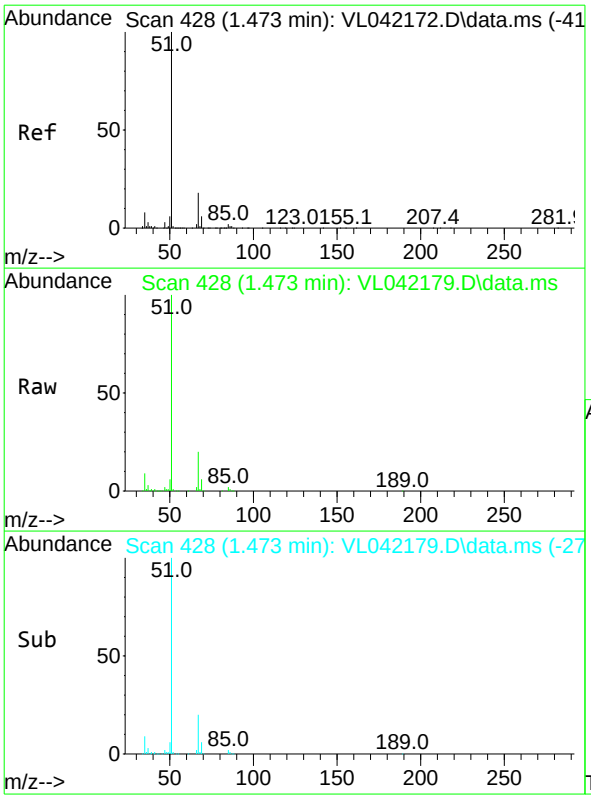



#2
Dichlorodifluoromethane
Concen: 9.545 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 85 Resp: 245714

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.4 | 26.1 | 39.1 |

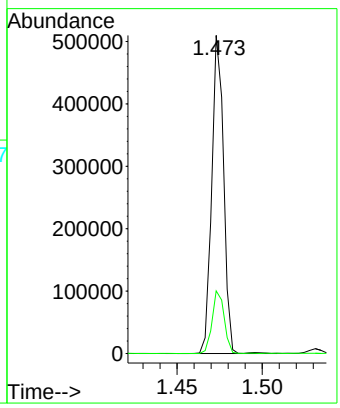





#3
Chlorodifluoromethane
Concen: 9.394 ppbv
RT: 1.473 min Scan# 42
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 51 Resp: 247046

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 20.1 | 15.0 | 22.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 03/31/2025
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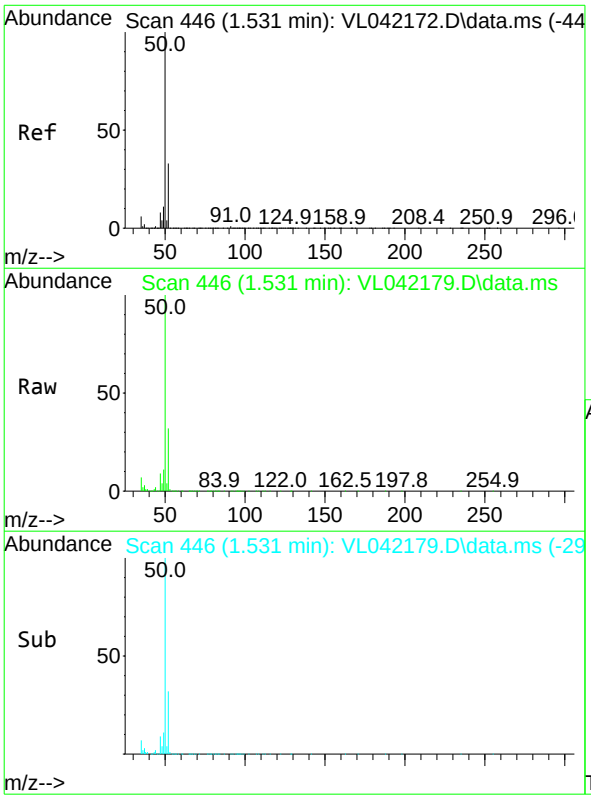
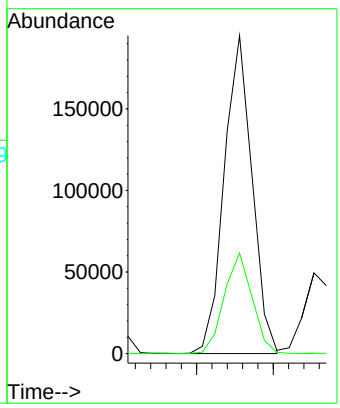
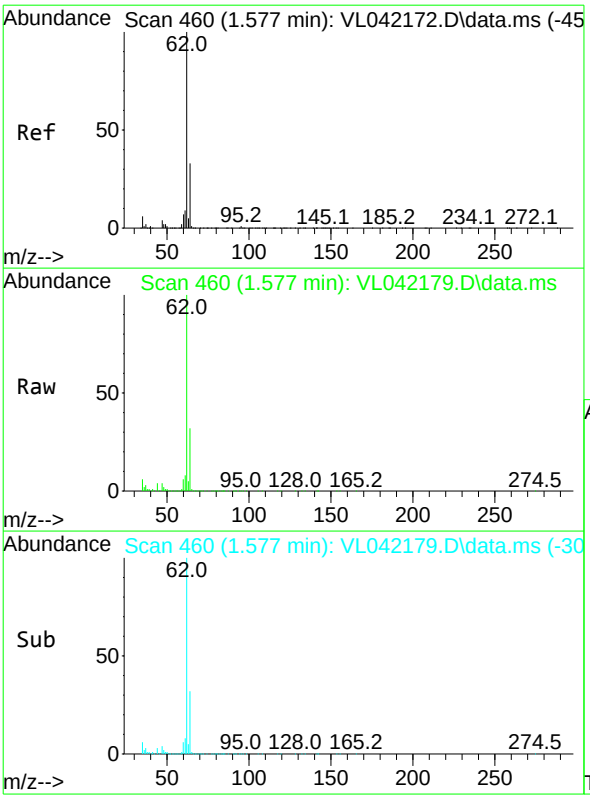



#4
Chloromethane
Concen: 9.365 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 50 Resp: 98527

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 31.6 | 26.1 | 39.1 |

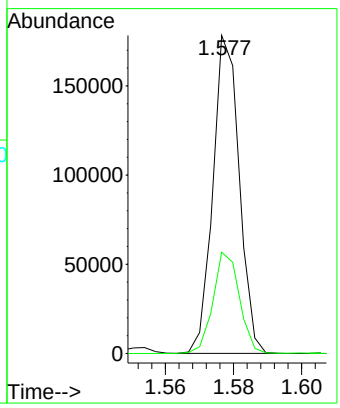





#5
Vinyl Chloride
Concen: 8.573 ppbv
RT: 1.577 min Scan# 46
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 62 Resp: 95578

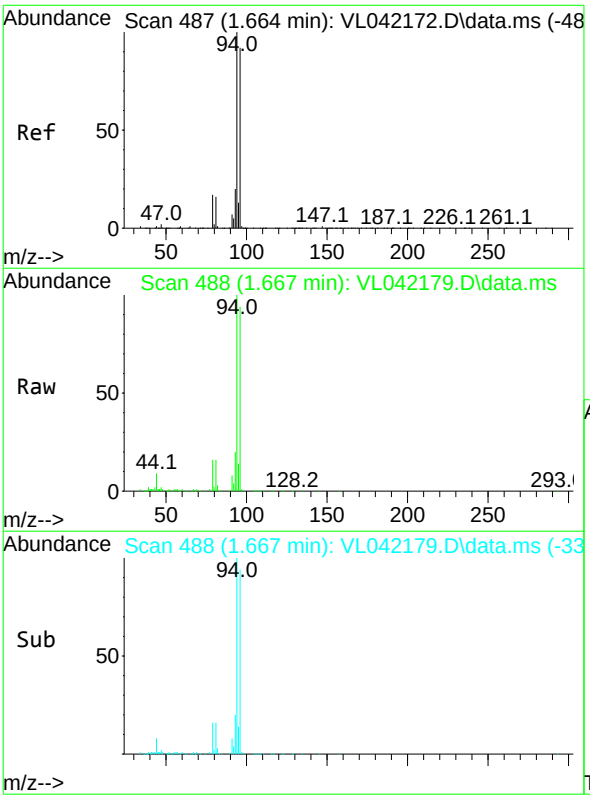
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.8 | 26.6 | 40.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

**Manual Integrations**
**APPROVED**

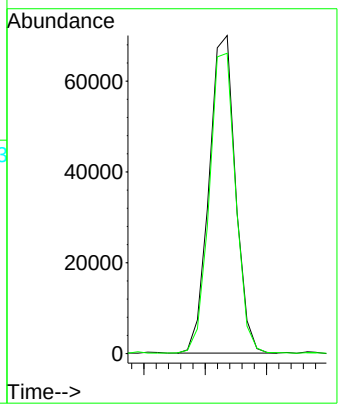
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

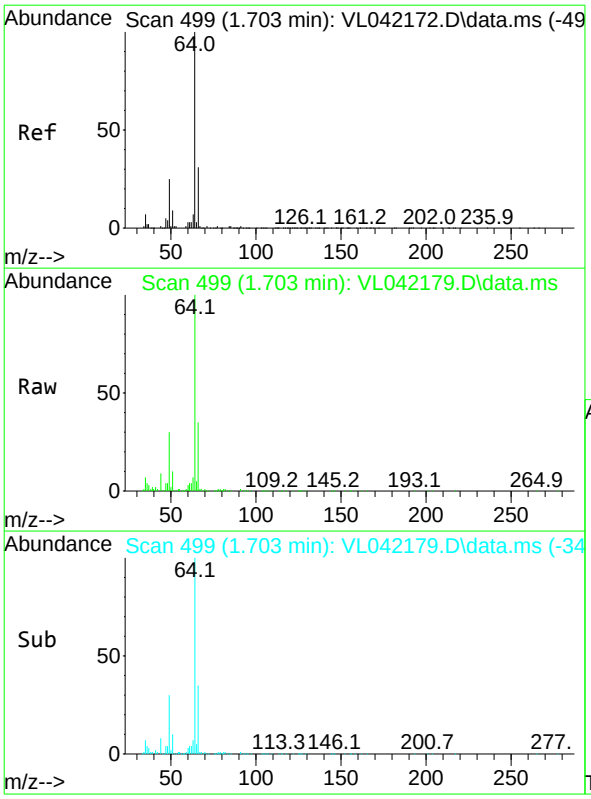



#6
Bromomethane
Concen: 8.799 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 94 Resp: 41950

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 94.4 | 73.1 | 109.7 |

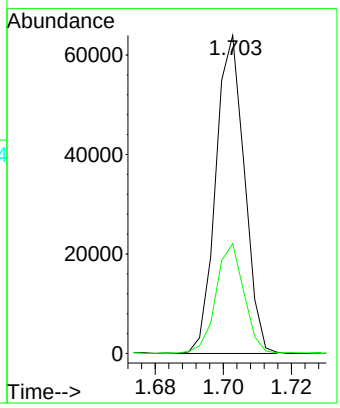





#7
Chloroethane
Concen: 8.856 ppbv
RT: 1.703 min Scan# 49
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 64 Resp: 37400

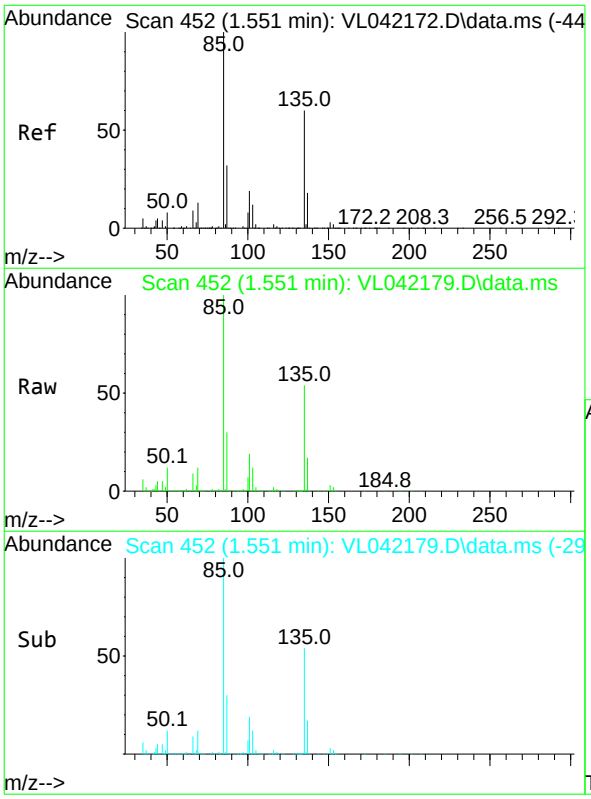
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 34.5 | 25.2 | 37.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

**Manual Integrations**
**APPROVED**

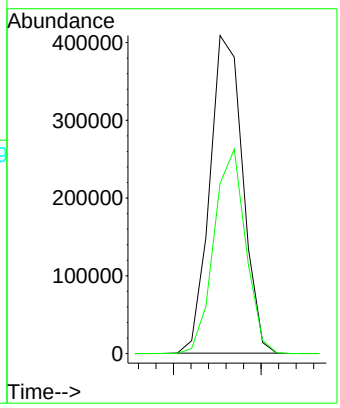
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

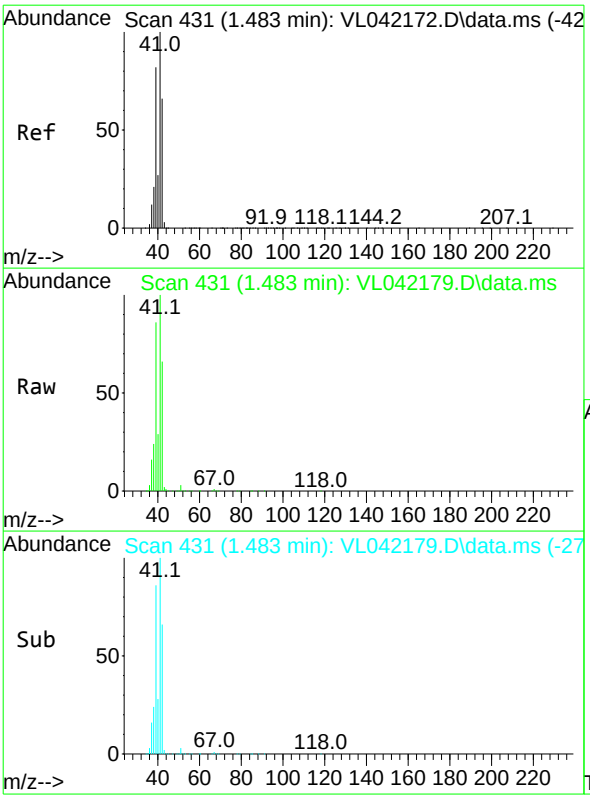



#8
Dichlorotetrafluoroethane
Concen: 9.753 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 85 Resp: 213819

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 61.9 | 52.4 | 78.6 |

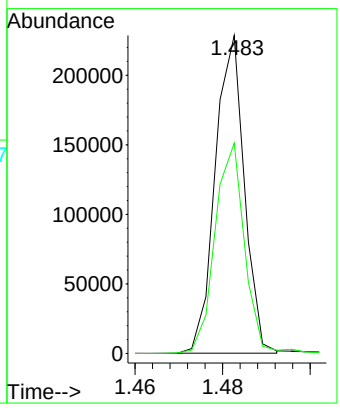





#9
Propene
Concen: 8.739 ppbv
RT: 1.483 min Scan# 43
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 41 Resp: 105338

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 68.1 | 55.4 | 83.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

**Manual Integrations**
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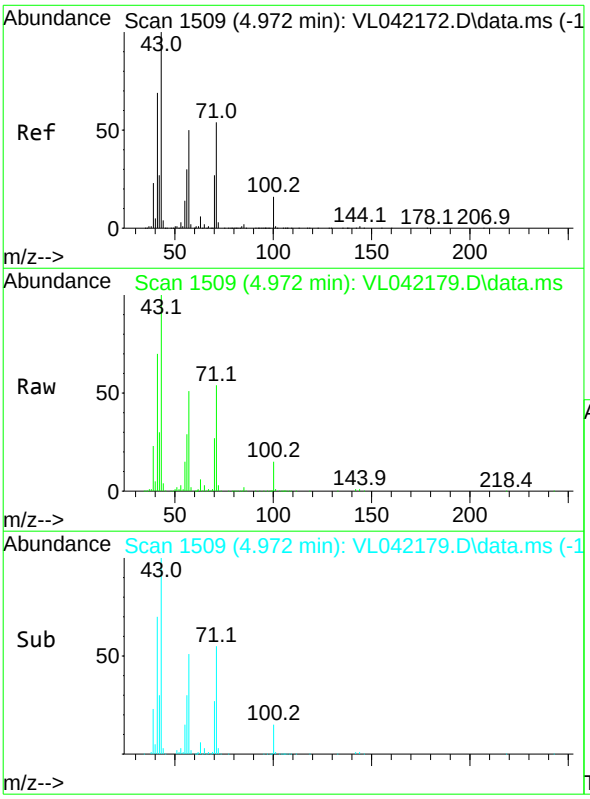
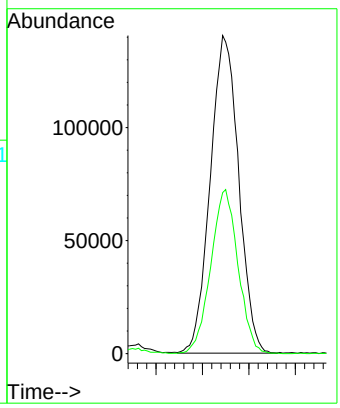
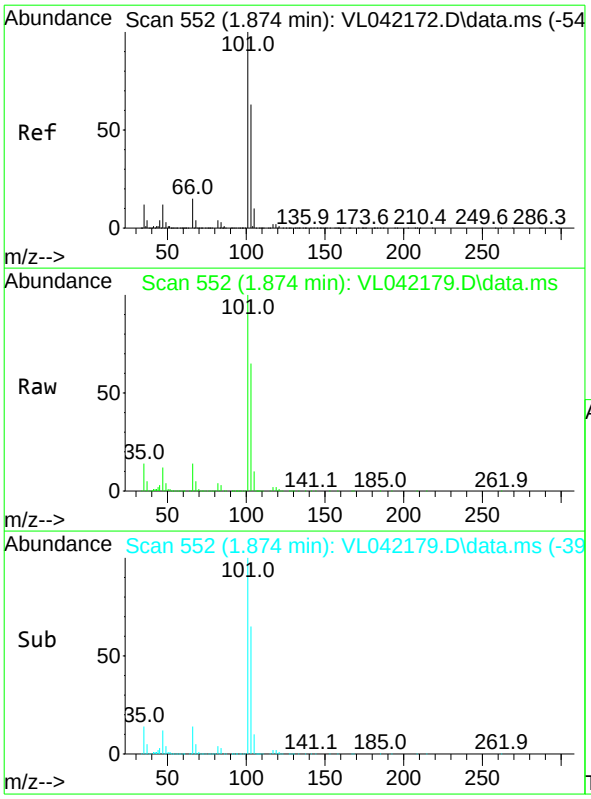



#10
Heptane
Concen: 9.318 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 43 Resp: 298768

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 49.5 | 39.4 | 59.2 |

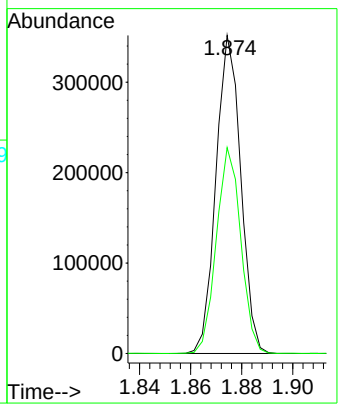





#11
Trichlorofluoromethane
Concen: 9.453 ppbv
RT: 1.874 min Scan# 55
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:101 Resp: 236793

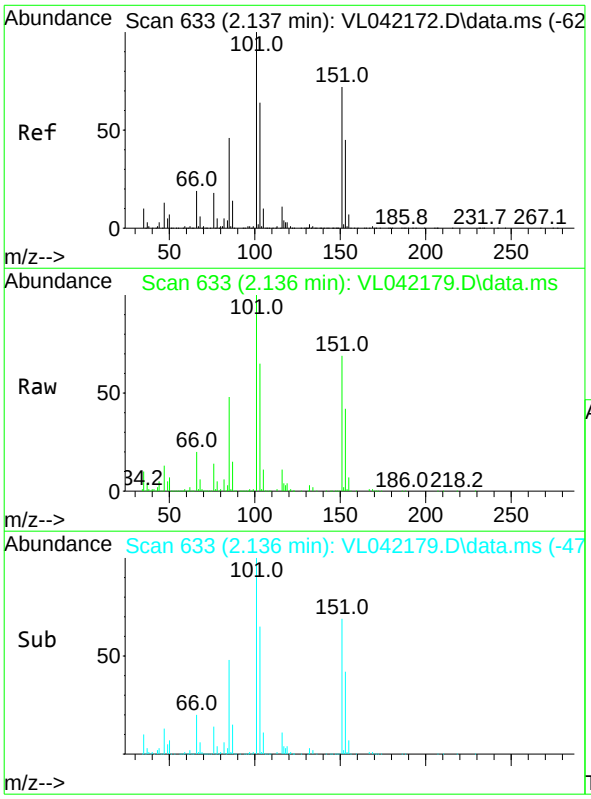
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.7 | 50.2 | 75.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

**Manual Integrations**
**APPROVED**

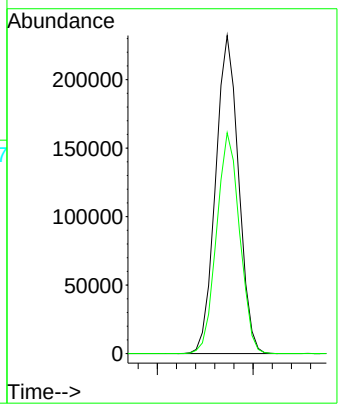
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

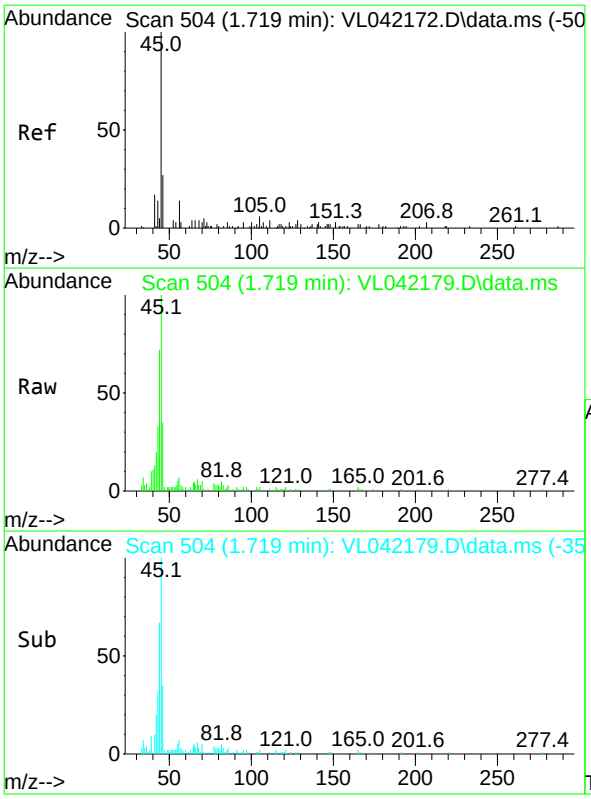



#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.421 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:101 Resp: 193965

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 69.6 | 57.1 | 85.7 |

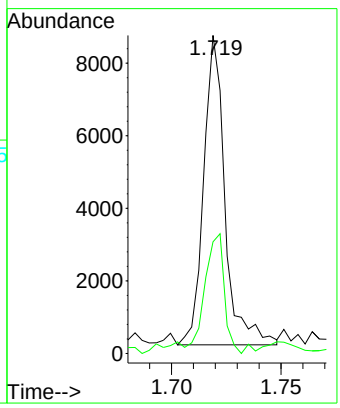





#13
Ethanol
Concen: 5.066 ppbv
RT: 1.719 min Scan# 50
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 45 Resp: 5773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 48.5 | 20.2 | 80.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

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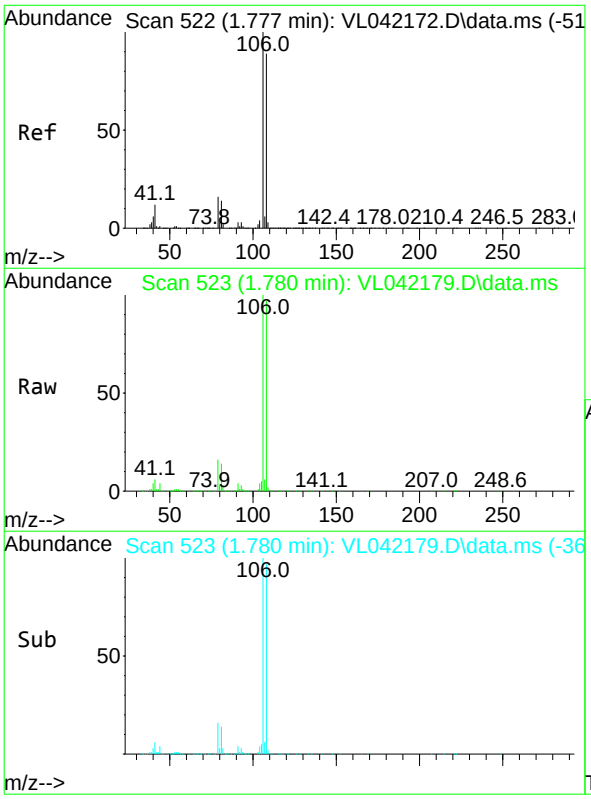
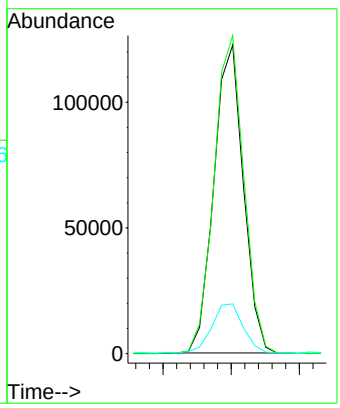
Supervised By :Mahesh Dadoda 04/03/2025

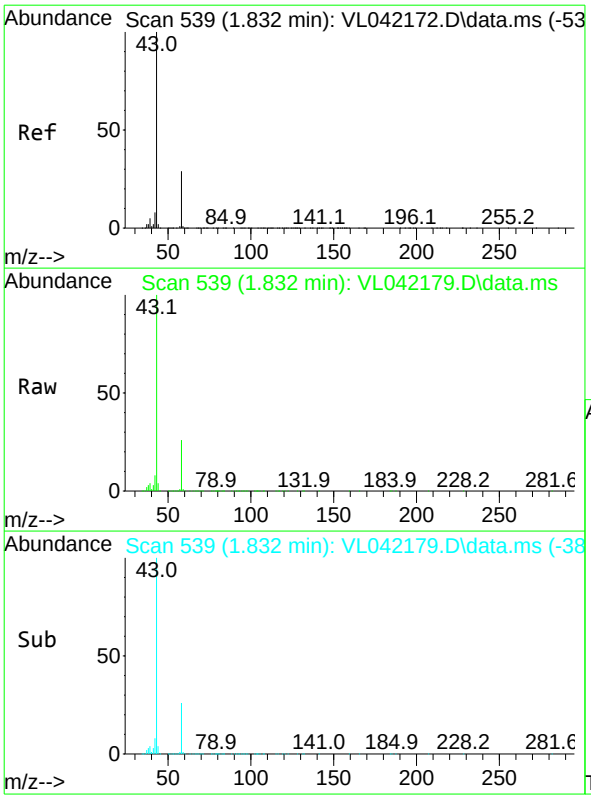



#14
Bromoethene
Concen: 9.328 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:108 Resp: 73572

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 106 | 105.0 | 86.8 | 130.2 |
| 79 | 18.8 | 15.0 | 22.6 |

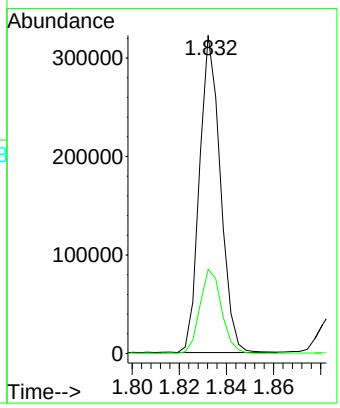





#15
Acetone
Concen: 8.132 ppbv
RT: 1.832 min Scan# 53
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 43 Resp: 198300

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 27.7 | 23.2 | 34.8 |

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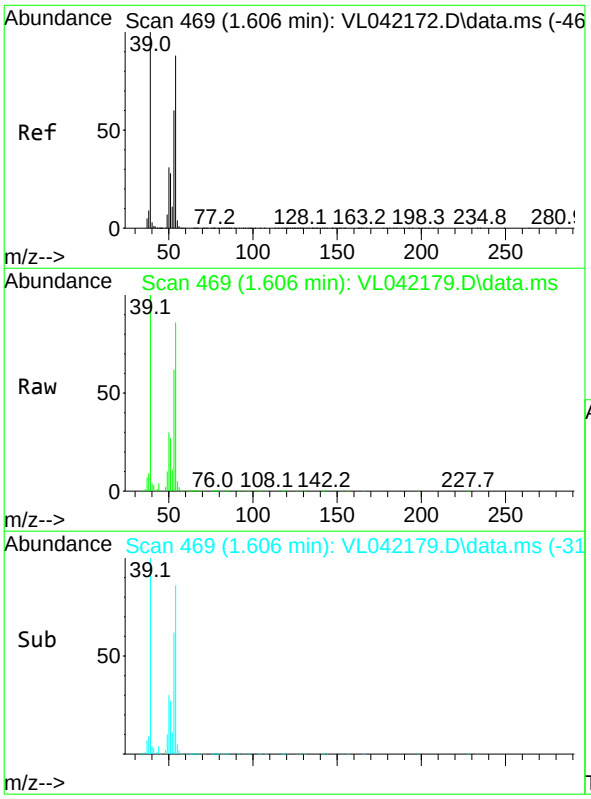
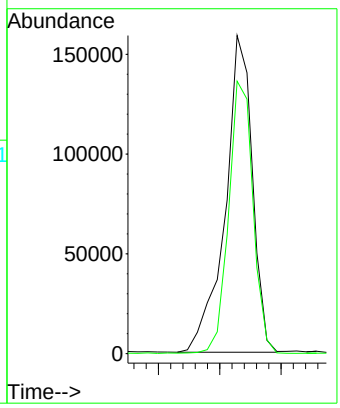
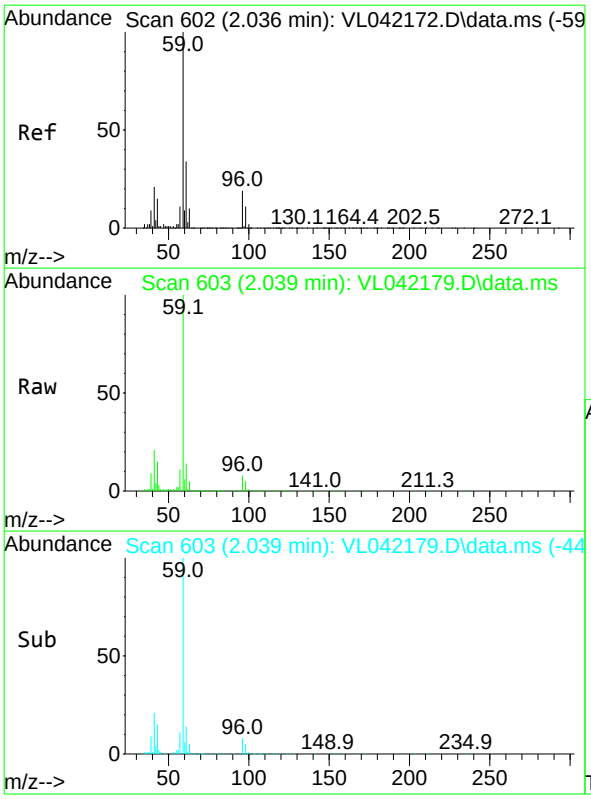



#16
1,3-Butadiene
Concen: 8.216 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 39 Resp: 97840

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 76.9 | 60.7 | 91.1 |

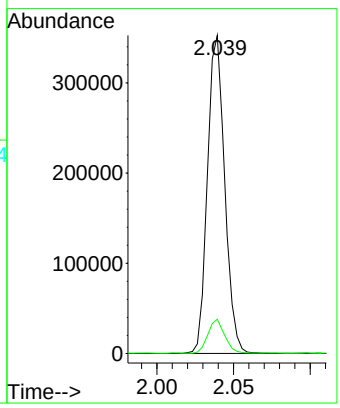





#17
tert-Butyl alcohol
Concen: 9.094 ppbv
RT: 2.039 min Scan# 60
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 59 Resp: 276195

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.6 | 8.9 | 13.3 |

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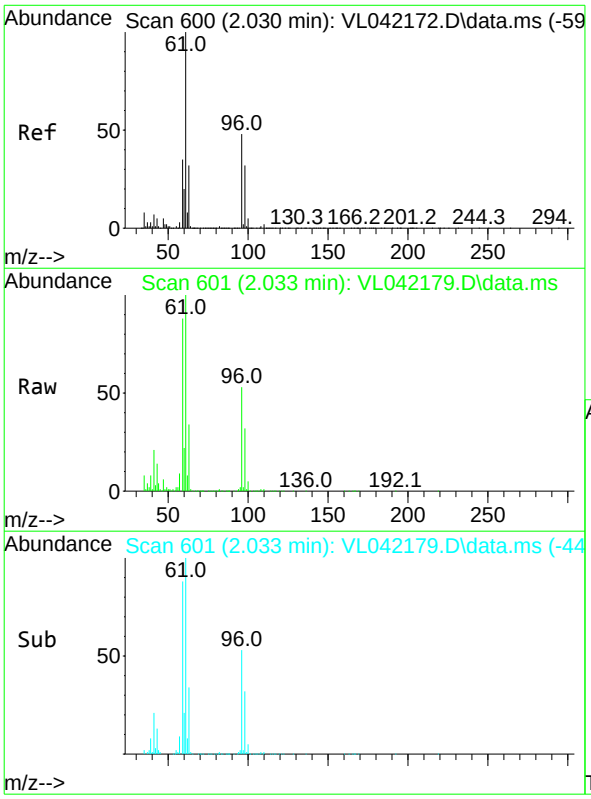
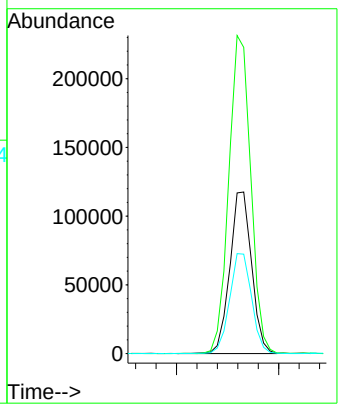
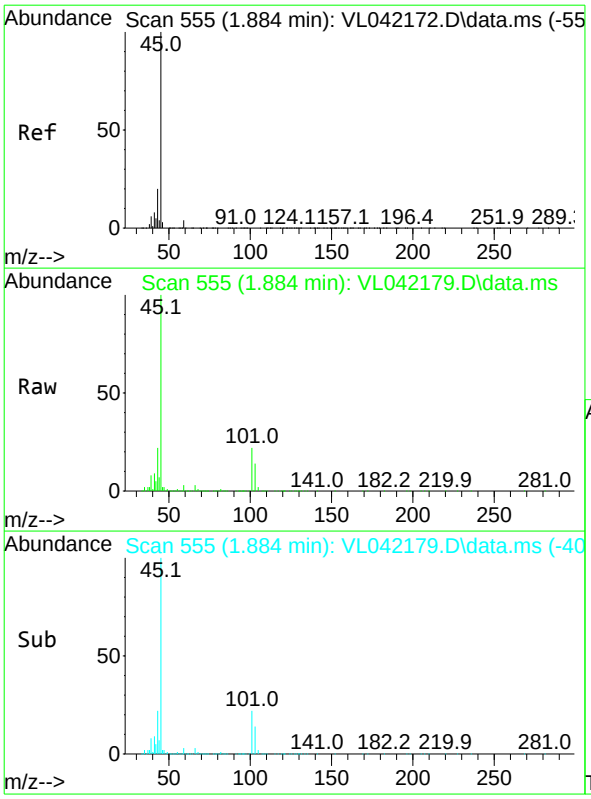



#18
1,1-Dichloroethene
Concen: 9.053 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 96 Resp: 87137

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 189.6 | 167.6 | 251.4 |
| 98 | 61.5 | 53.5 | 80.3 |

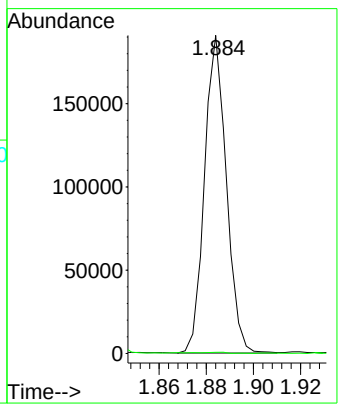





#19
Isopropyl Alcohol
Concen: 8.923 ppbv
RT: 1.884 min Scan# 55
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 45 Resp: 122768

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 44.9 | 36.9 | 55.3 |

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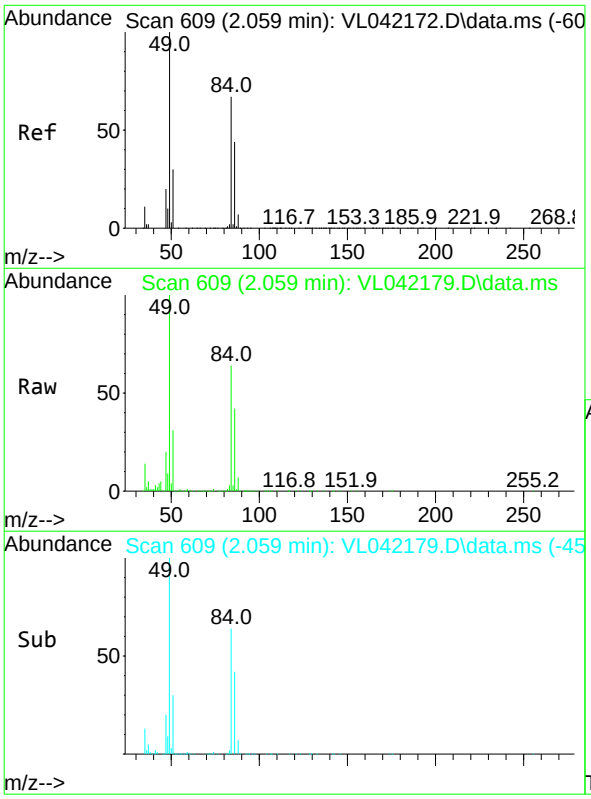
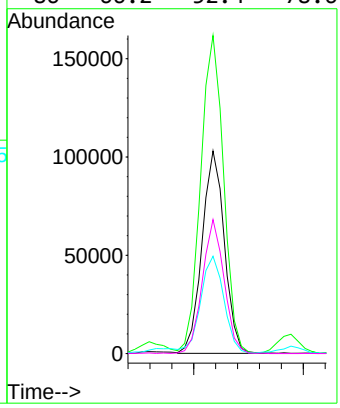
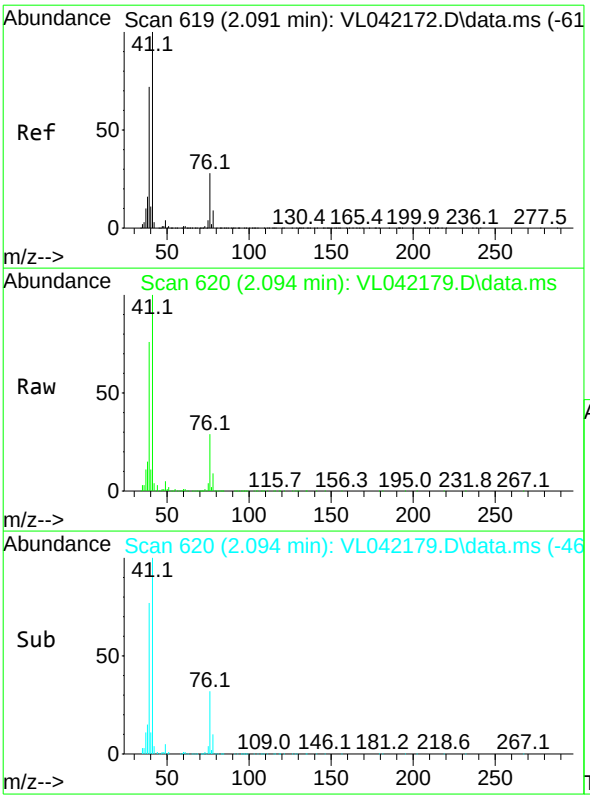



#20
Methylene Chloride
Concen: 8.018 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 84 Resp: 72813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 155.8 | 120.2 | 180.4 |
| 51 | 46.4 | 37.4 | 56.0 |
| 86 | 66.2 | 52.4 | 78.6 |

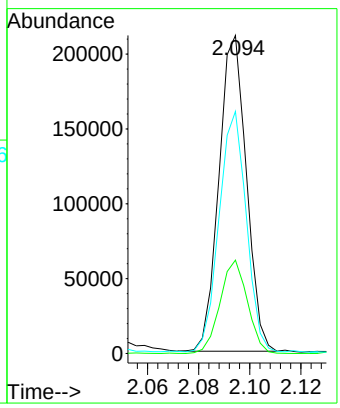





#21
Allyl Chloride
Concen: 9.154 ppbv
RT: 2.094 min Scan# 62
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 41 Resp: 157418

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 29.6 | 24.1 | 36.1 |
| 39 | 75.5 | 61.1 | 91.7 |

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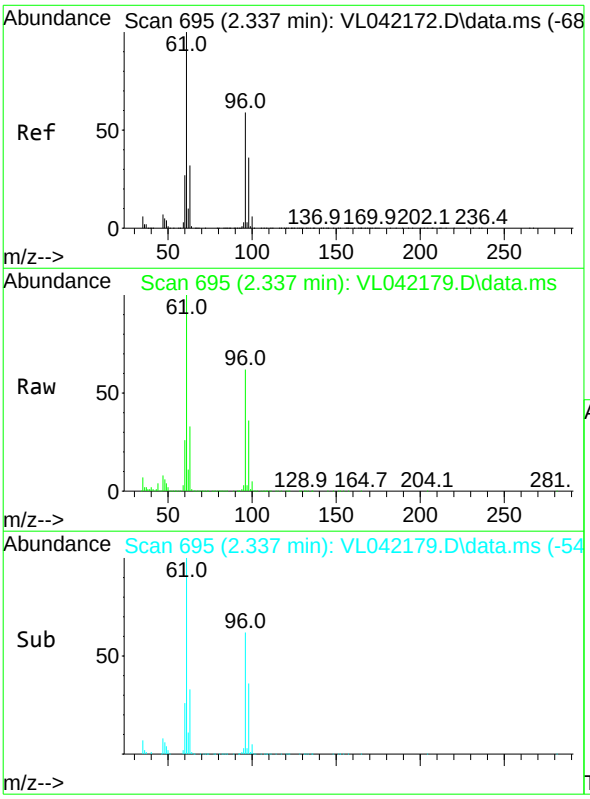
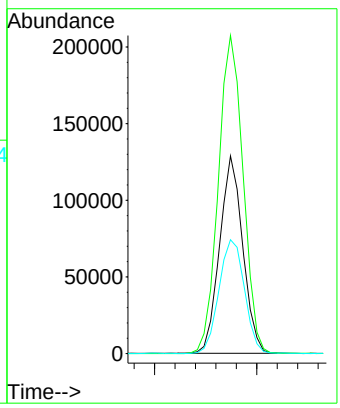
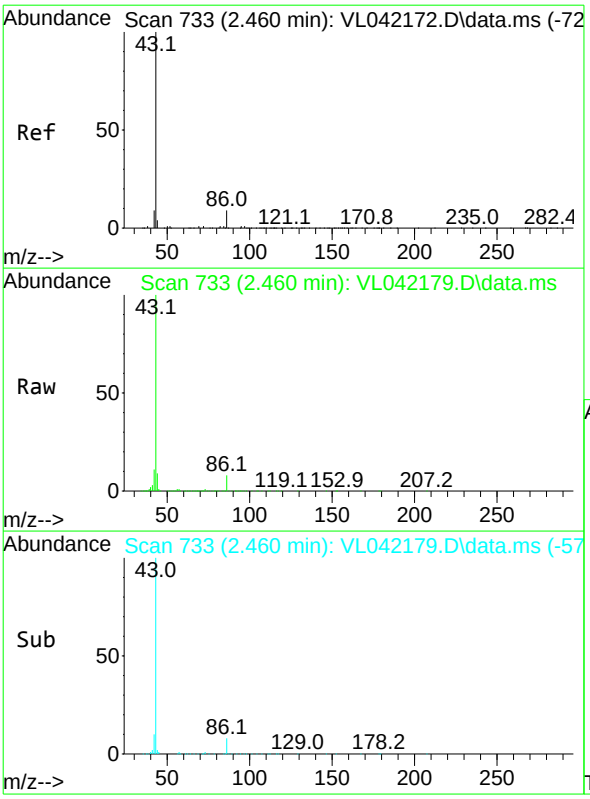



#22
trans-1,2-Dichloroethene
Concen: 9.092 ppbv
RT: 2.337 min Scan# 695
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 96 Resp: 101141

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 161.2 | 136.6 | 204.8 |
| 98 | 57.7 | 49.4 | 74.2 |

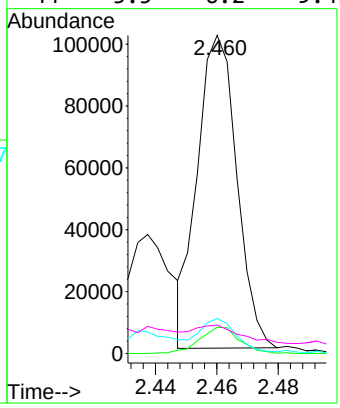





#23
Vinyl Acetate
Concen: 8.553 ppbv
RT: 2.460 min Scan# 73
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 43 Resp: 90260

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 8.3 | 5.5 | 8.3# |
| 42 | 10.7 | 8.6 | 13.0 |
| 44 | 5.5 | 6.2 | 9.4# |

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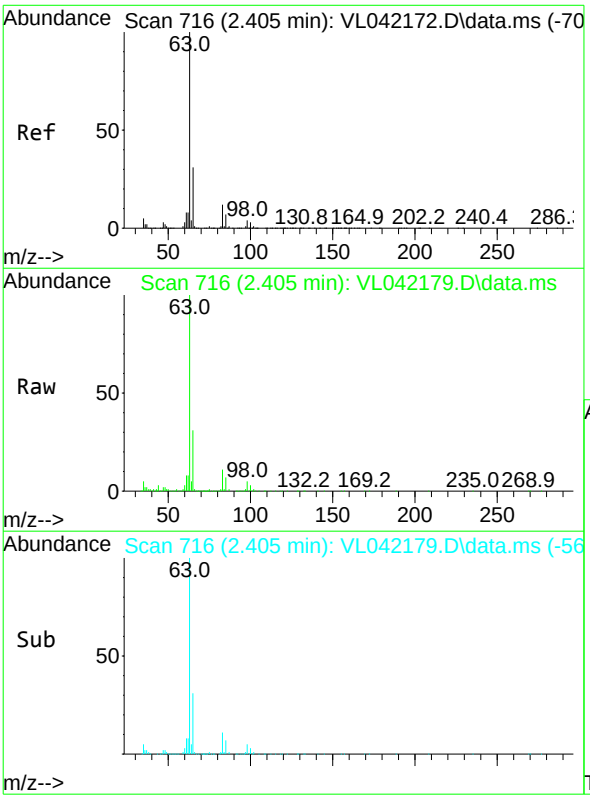
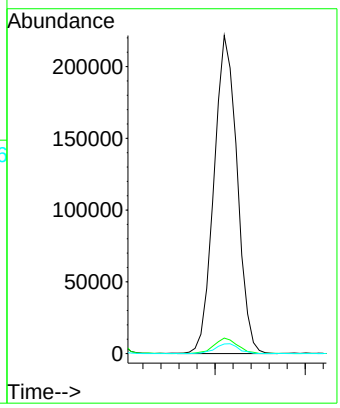
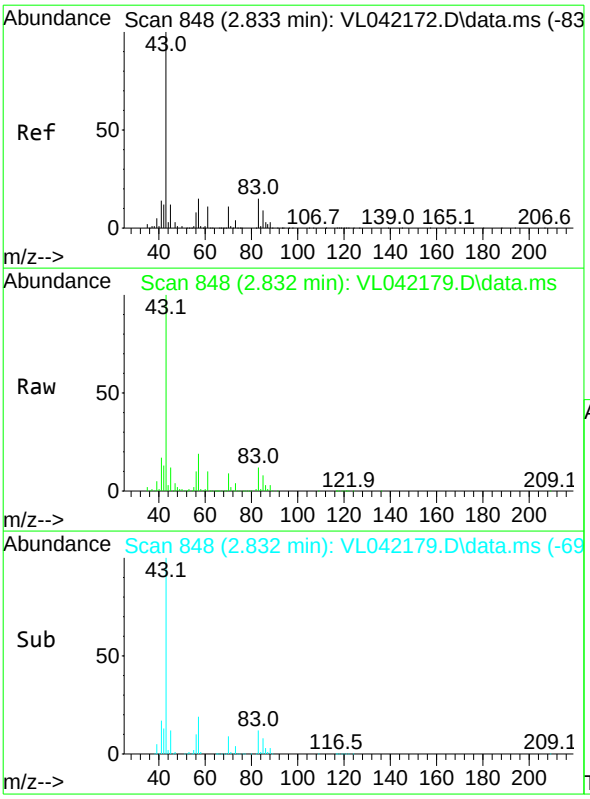



#24
1,1-Dichloroethane
Concen: 9.600 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 63 Resp: 197968

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 4.8 | 2.3 | 6.8 |
| 100 | 3.0 | 1.6 | 4.7 |

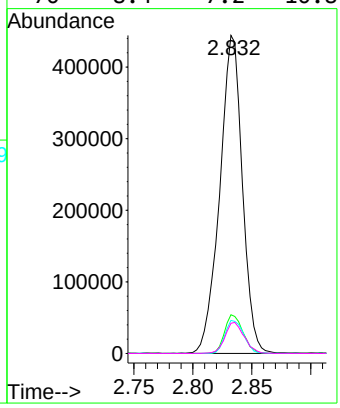





#25
Ethyl Acetate
Concen: 9.364 ppbv
RT: 2.832 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 43 Resp: 592585

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 9.9 | 8.2 | 12.2 |
| 61 | 8.7 | 7.3 | 10.9 |
| 70 | 8.4 | 7.2 | 10.8 |

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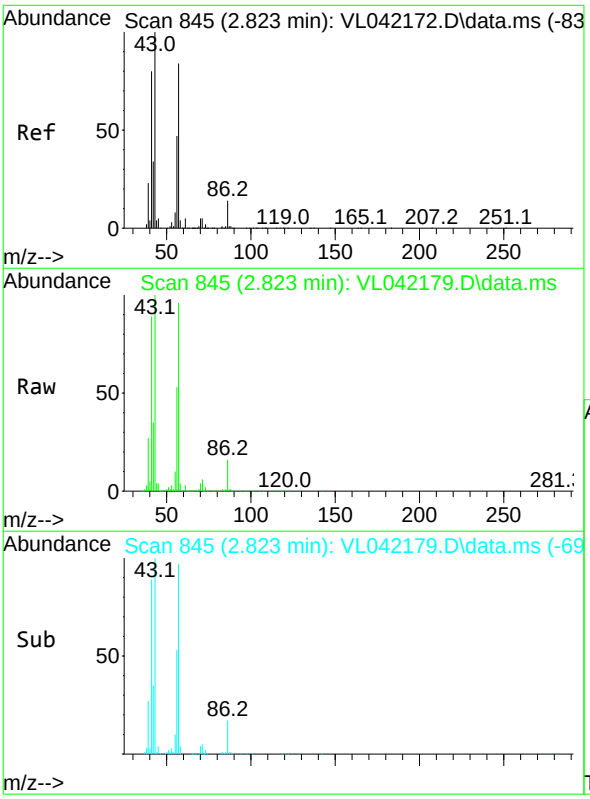
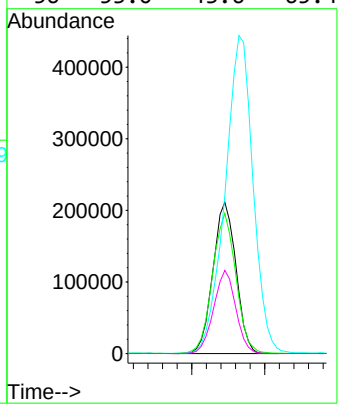
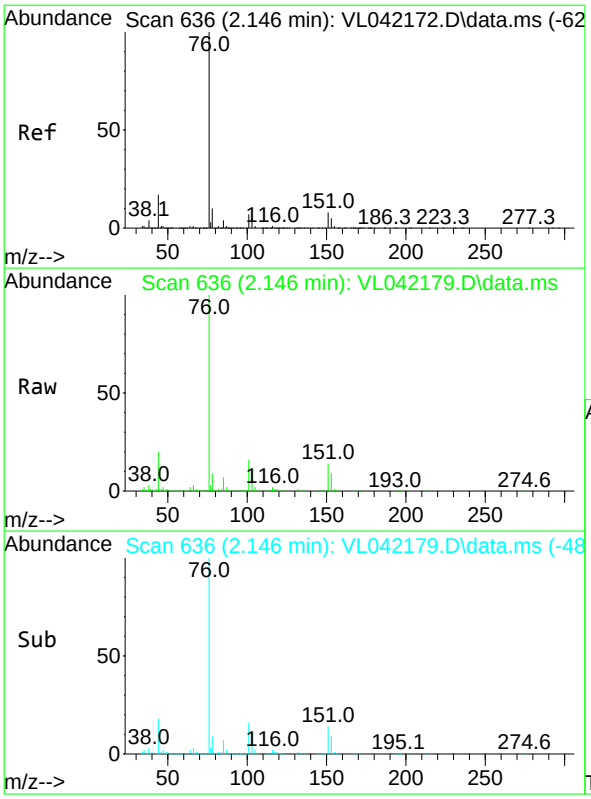



#26
Hexane
Concen: 9.455 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 57 Resp: 231125

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 95.2 | 76.6 | 114.8 |
| 43 | 256.8 | 207.8 | 311.8 |
| 56 | 53.0 | 43.6 | 65.4 |

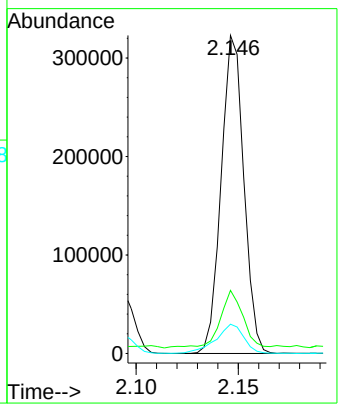





#27
Carbon Disulfide
Concen: 9.493 ppbv
RT: 2.146 min Scan# 63
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 76 Resp: 248834

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 20.1 | 14.7 | 22.1 |
| 78 | 11.3 | 9.3 | 13.9 |

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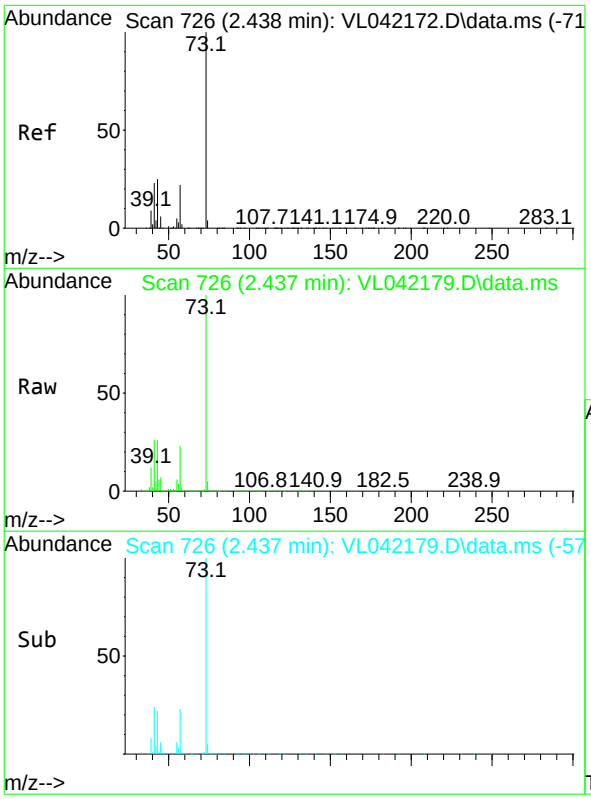
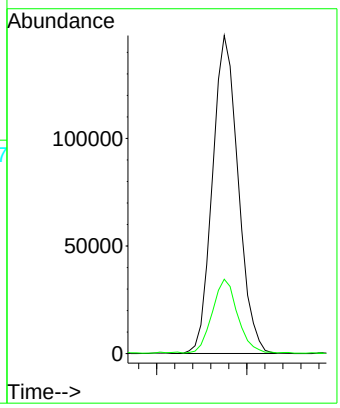
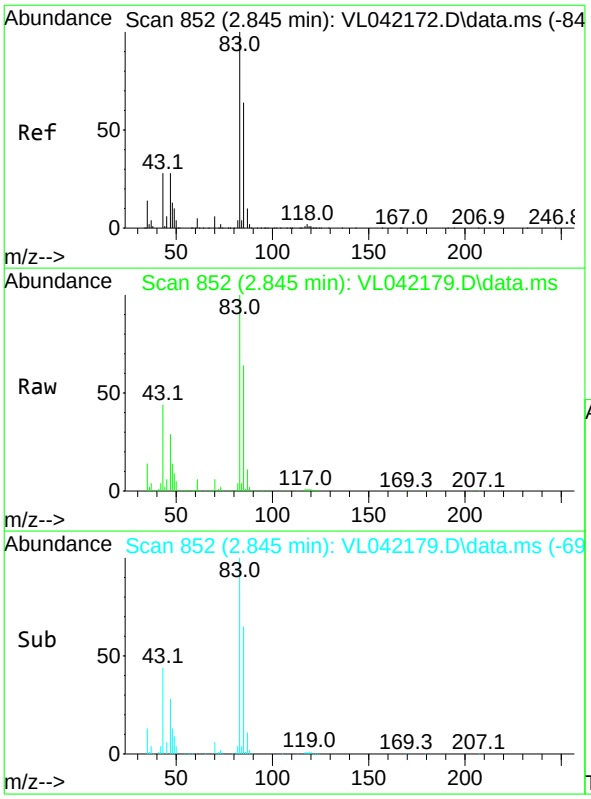



#28
Methyl tert-Butyl Ether
Concen: 9.624 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 73 Resp: 146470

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 23.3 | 20.5 | 30.7 |

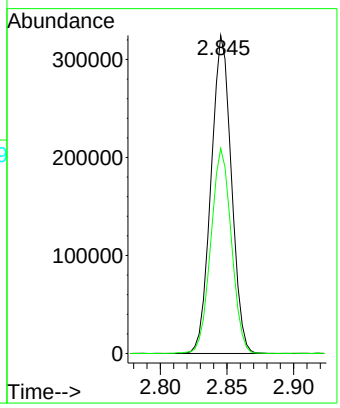





#29
Chloroform
Concen: 9.619 ppbv
RT: 2.845 min Scan# 85
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 83 Resp: 344106

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.5 | 51.4 | 77.2 |

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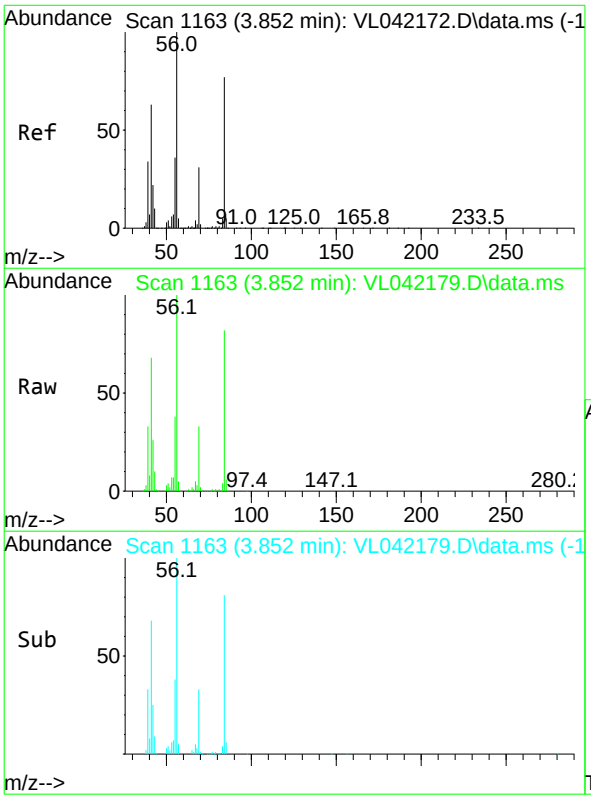
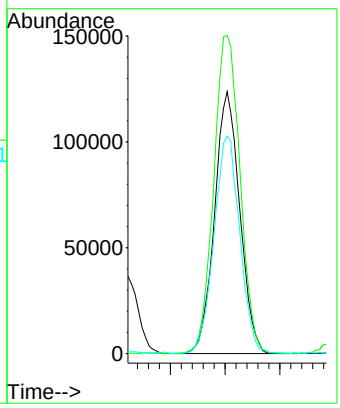
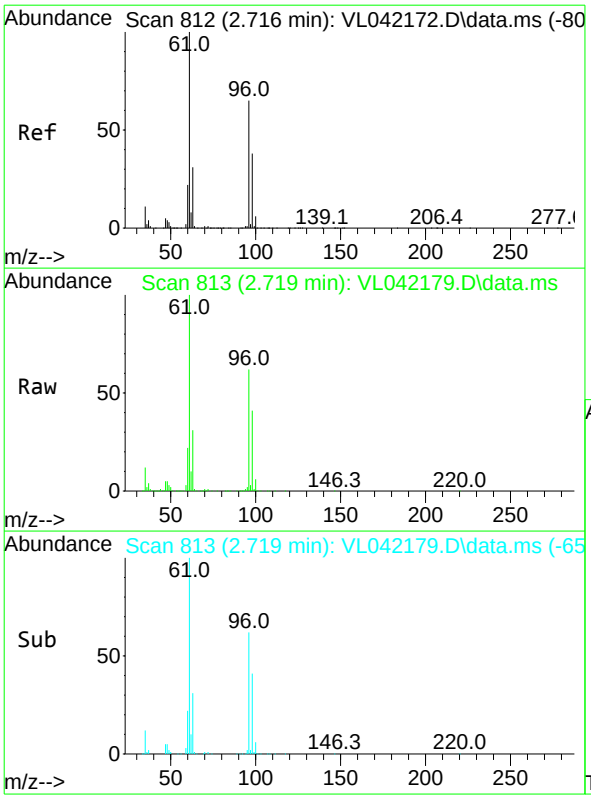



#30
Cyclohexane
Concen: 9.323 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 84 Resp: 197897

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 126.8 | 102.8 | 154.2 |
| 41 | 84.6 | 66.5 | 99.7 |

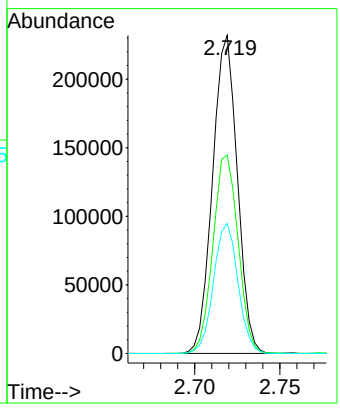





#31
cis-1,2-Dichloroethene
Concen: 9.449 ppbv
RT: 2.719 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 61 Resp: 234487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 62.3 | 51.8 | 77.8 |
| 98 | 40.9 | 30.6 | 46.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

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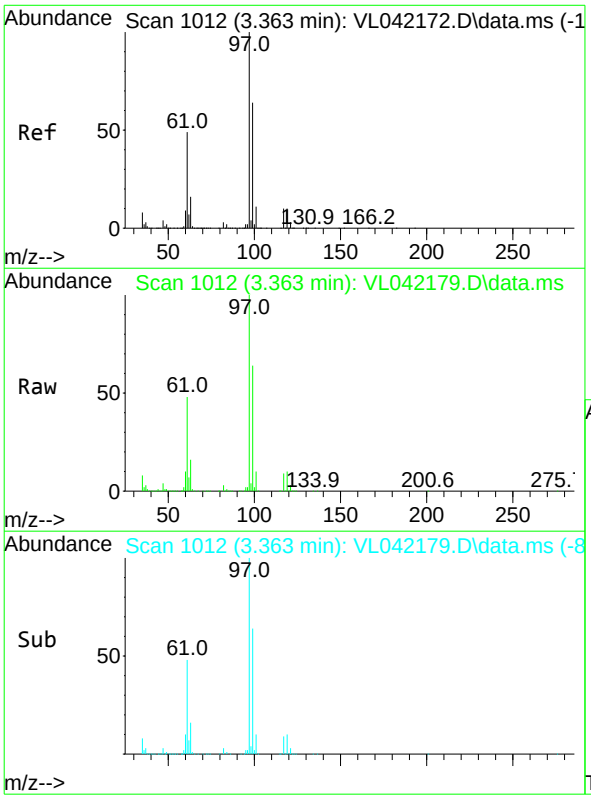
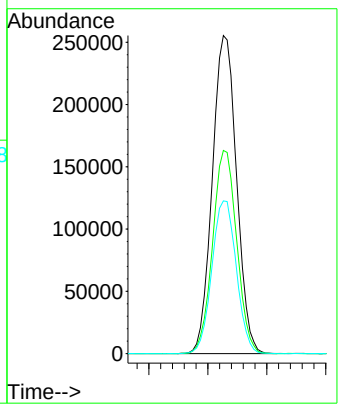
Supervised By :Mahesh Dadoda 04/03/2025

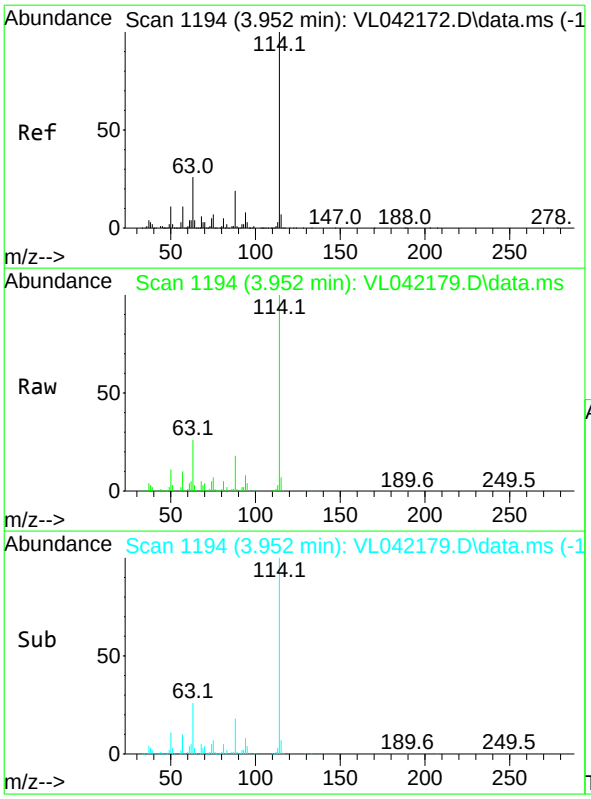



#32
1,1,1-Trichloroethane
Concen: 8.921 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 97 Resp: 365364

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.4 | 51.5 | 77.3 |
| 61 | 48.4 | 38.7 | 58.1 |

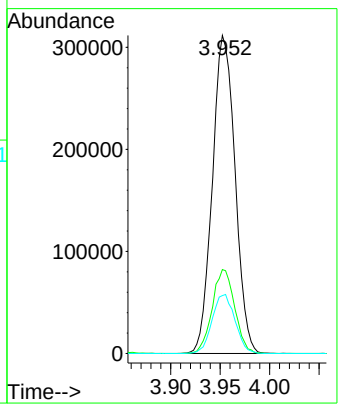





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:114 Resp: 498105

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 26.1 | 20.7 | 31.1 |
| 88 | 18.7 | 15.0 | 22.4 |

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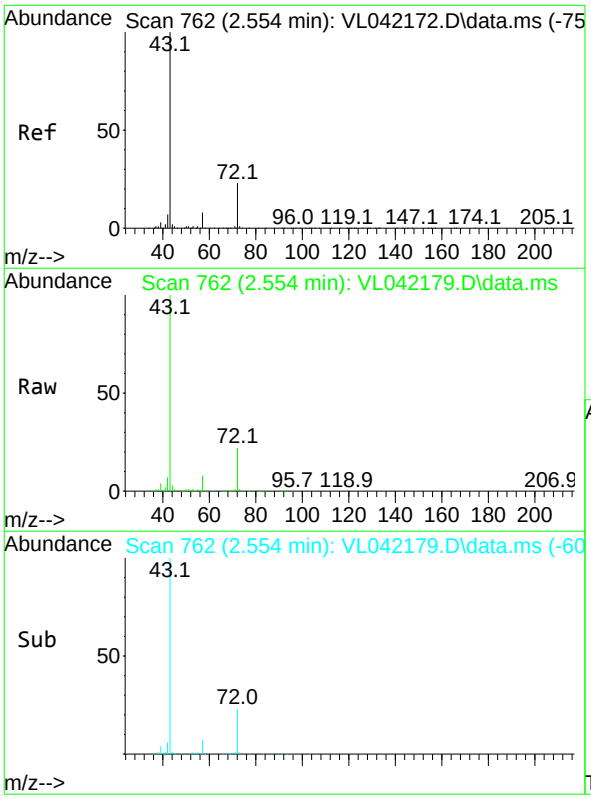
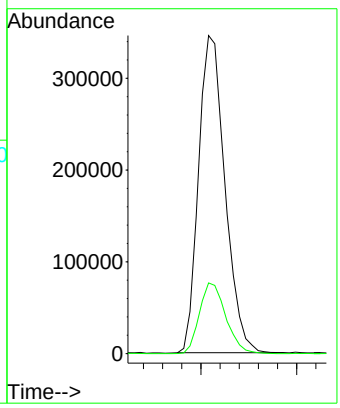
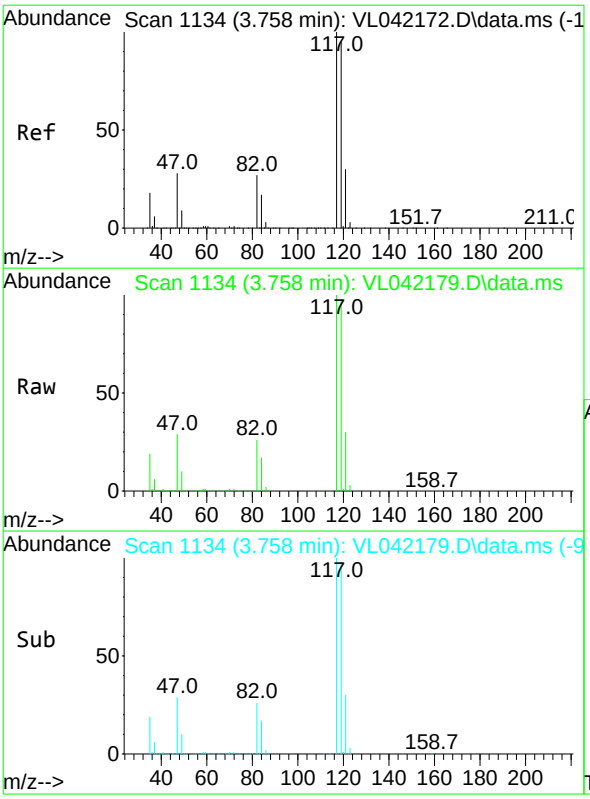



#34
2-Butanone
Concen: 9.171 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 43 Resp: 331236

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 22.2 | 18.2 | 27.2 |

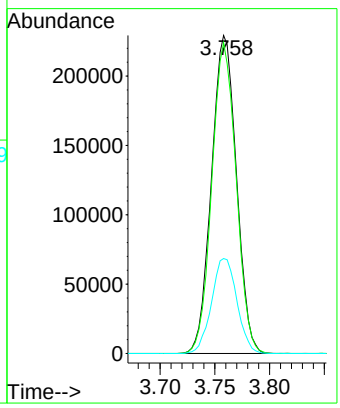





#35
Carbon Tetrachloride
Concen: 9.339 ppbv
RT: 3.758 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:117 Resp: 363392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 97.7 | 76.2 | 114.2 |
| 121 | 29.9 | 24.2 | 36.4 |

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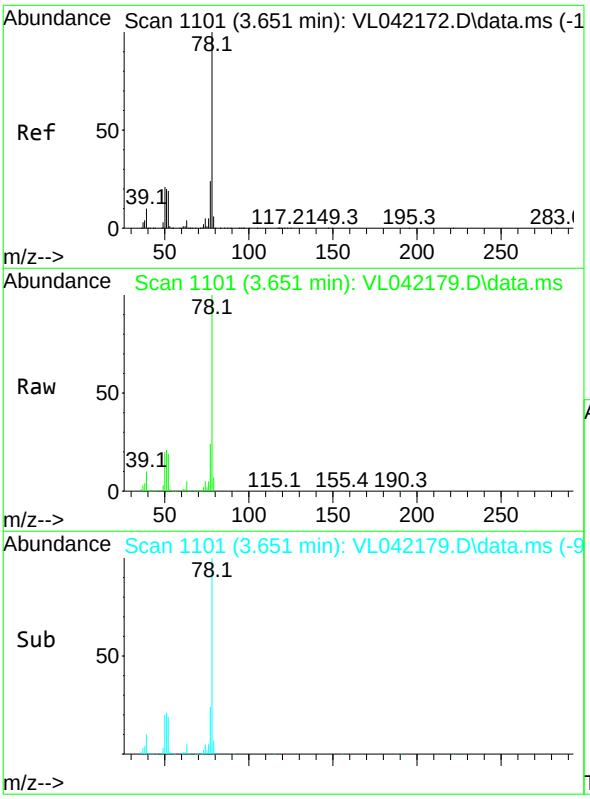
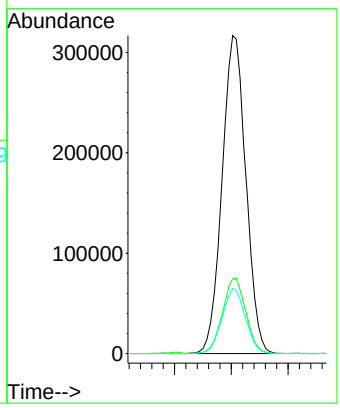
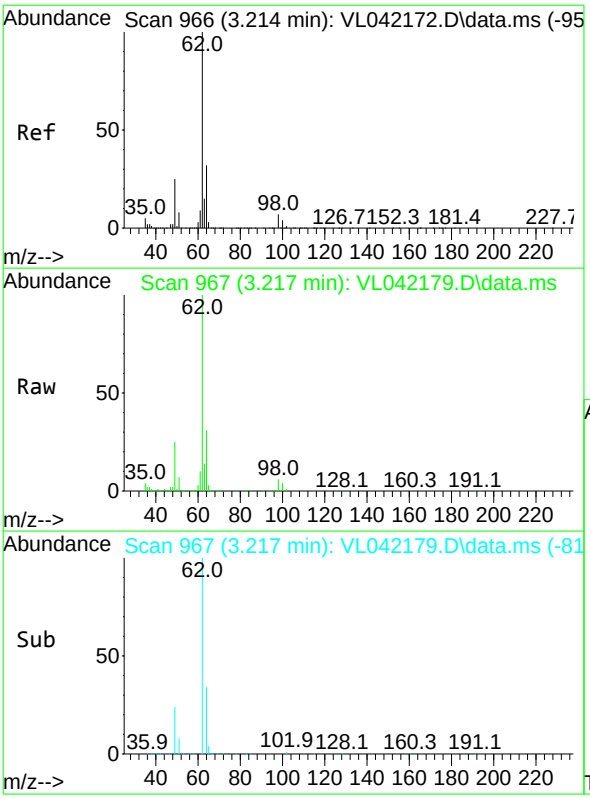



#36
Benzene
Concen: 9.341 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 78 Resp: 461261

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.5 | 19.1 | 28.7 |
| 50 | 20.4 | 16.6 | 24.8 |

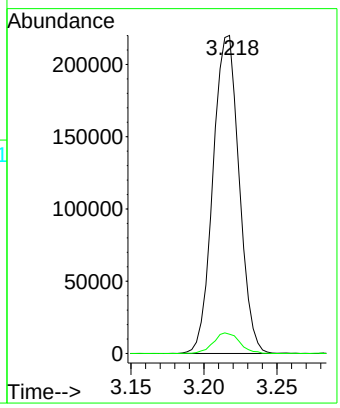





#37
1,2-Dichloroethane
Concen: 9.676 ppbv
RT: 3.217 min Scan# 96
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 62 Resp: 273559

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 6.6 | 5.4 | 8.2 |

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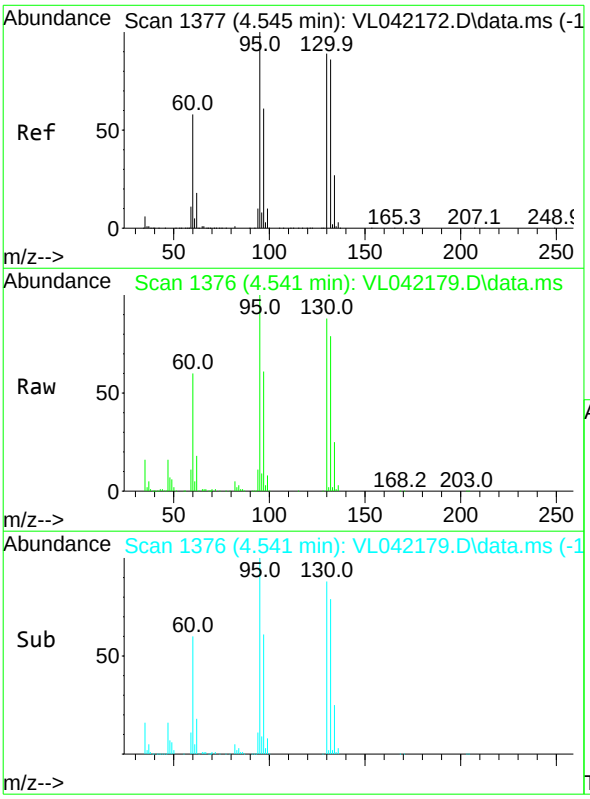
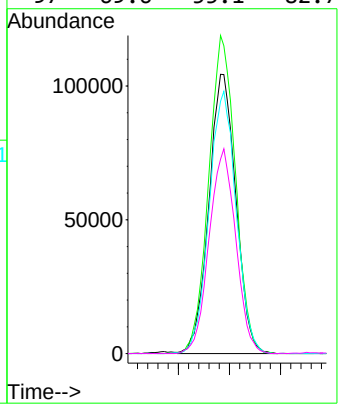
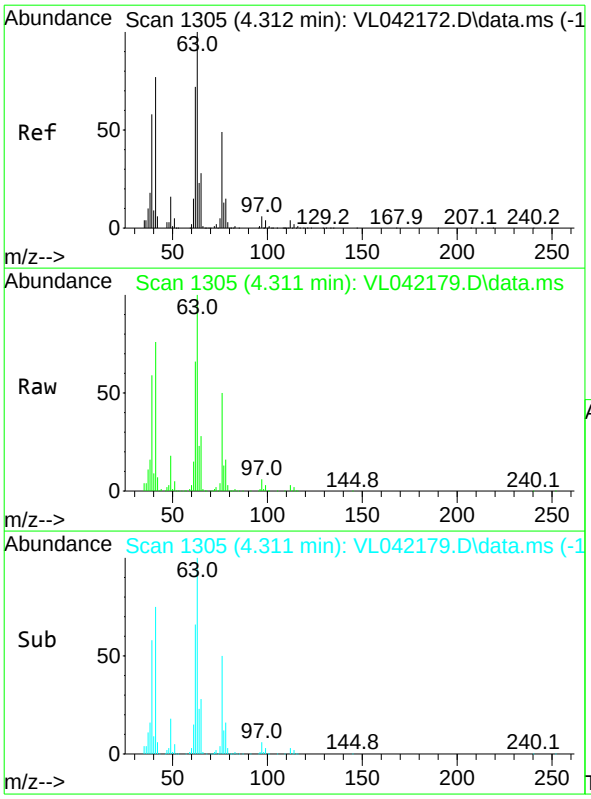



#38
Trichloroethene
Concen: 9.306 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. -0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:130 Resp: 191746

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 113.9 | 89.8 | 134.8 |
| 132 | 90.3 | 77.4 | 116.2 |
| 97 | 69.6 | 55.1 | 82.7 |

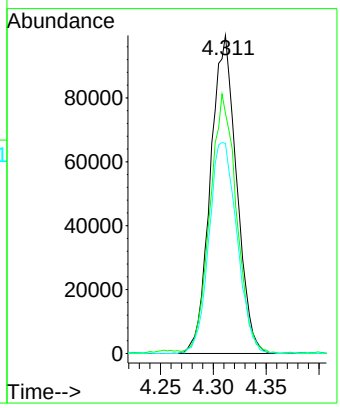





#39
1,2-Dichloropropane
Concen: 9.500 ppbv
RT: 4.311 min Scan# 13
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 63 Resp: 170839

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 75.3 | 61.7 | 92.5 |
| 62 | 66.0 | 57.6 | 86.4 |

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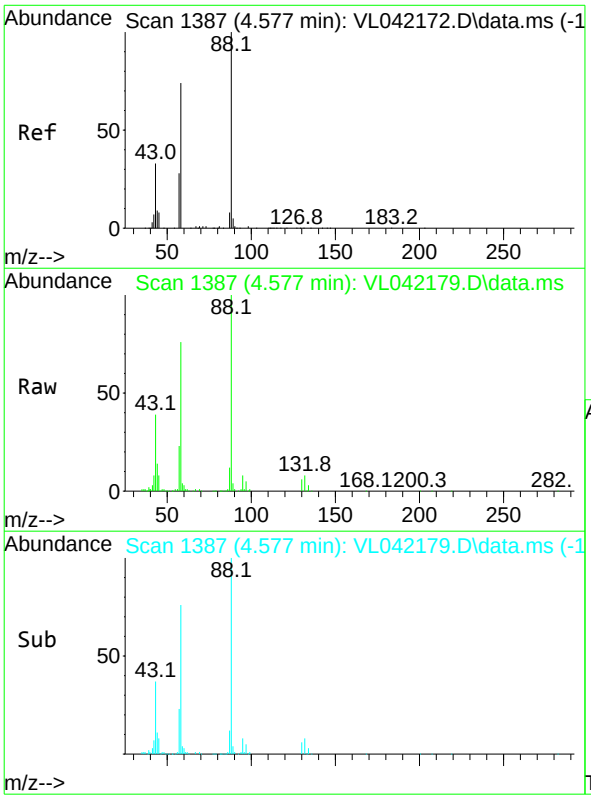
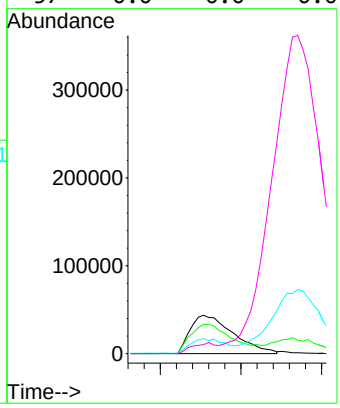
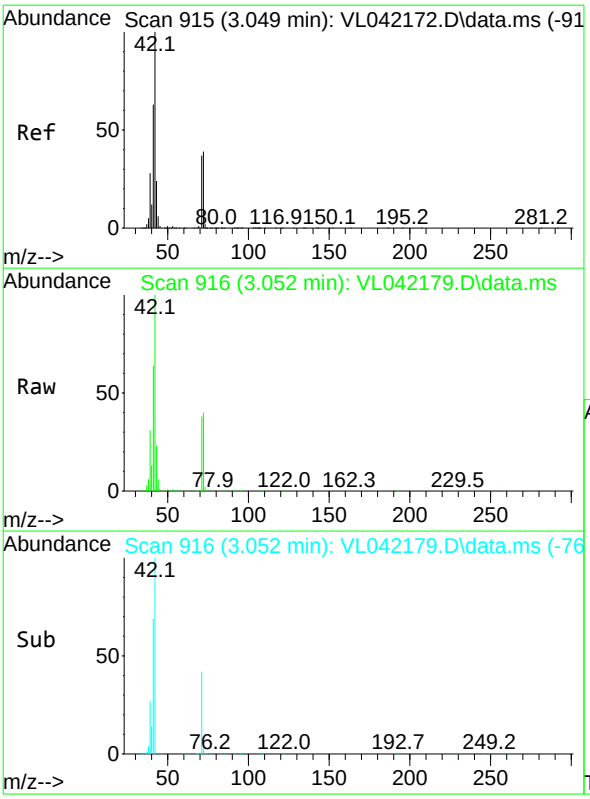



#40
1,4-Dioxane
Concen: 8.443 ppbv
RT: 4.577 min Scan# 1387
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 88 Resp: 80592

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 76.2 | 62.7 | 94.1 |
| 43 | 31.4 | 23.0 | 34.4 |
| 57 | 0.0 | 0.0 | 0.0 |

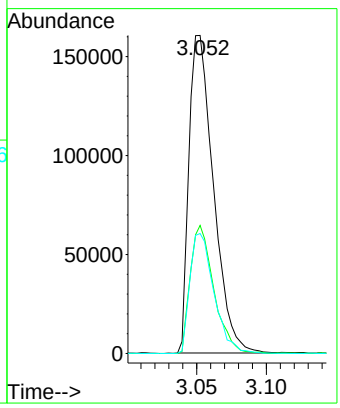





#41
Tetrahydrofuran
Concen: 9.431 ppbv
RT: 3.052 min Scan# 91
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 42 Resp: 196163

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 38.9 | 31.4 | 47.0 |
| 71 | 37.2 | 30.2 | 45.4 |

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**Manual Integrations APPROVED**

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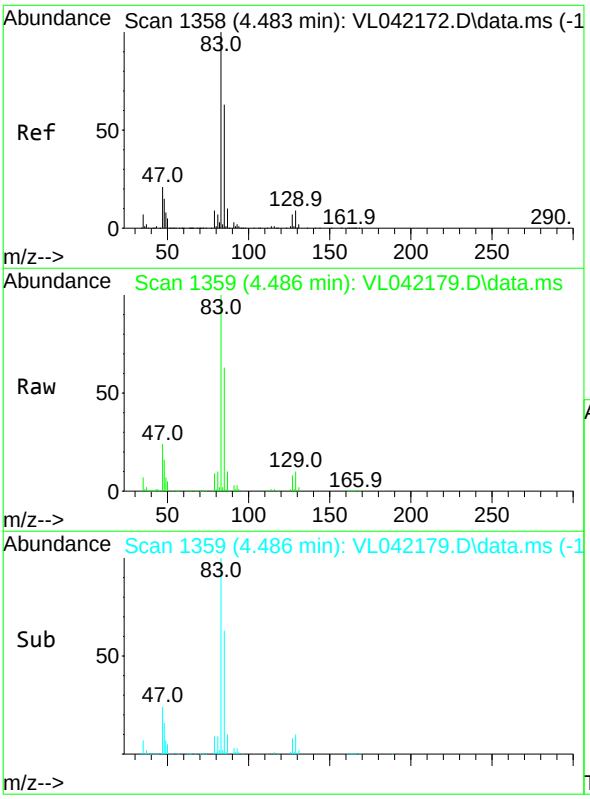
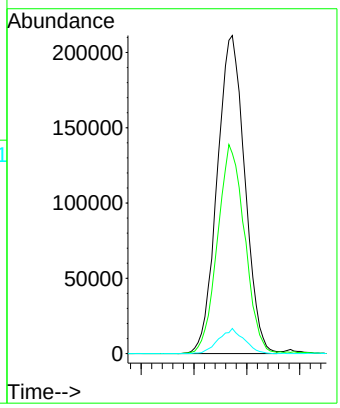
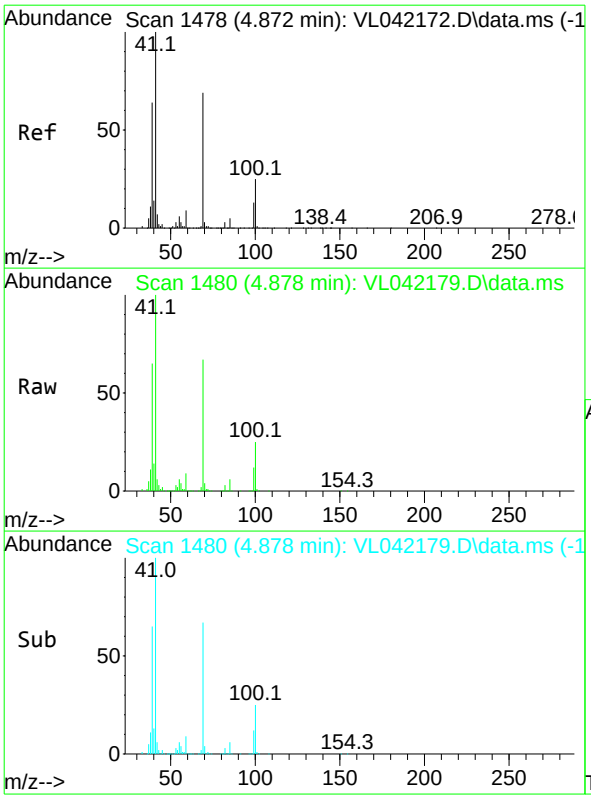



#42
Bromodichloromethane
Concen: 9.853 ppbv
RT: 4.486 min Scan# 1359
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 83 Resp: 384006

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.0 | 50.5 | 75.7 |
| 127 | 7.9 | 5.9 | 8.9 |

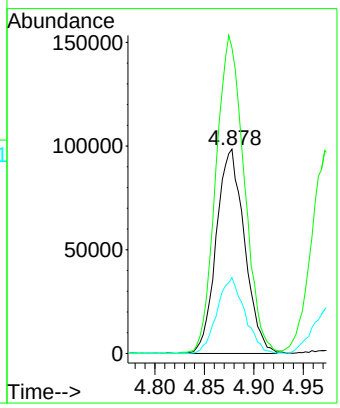





#43
Methyl Methacrylate
Concen: 9.344 ppbv
RT: 4.878 min Scan# 14
Delta R.T. 0.006 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 69 Resp: 195339

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 156.4 | 123.8 | 185.6 |
| 100 | 36.4 | 28.4 | 42.6 |

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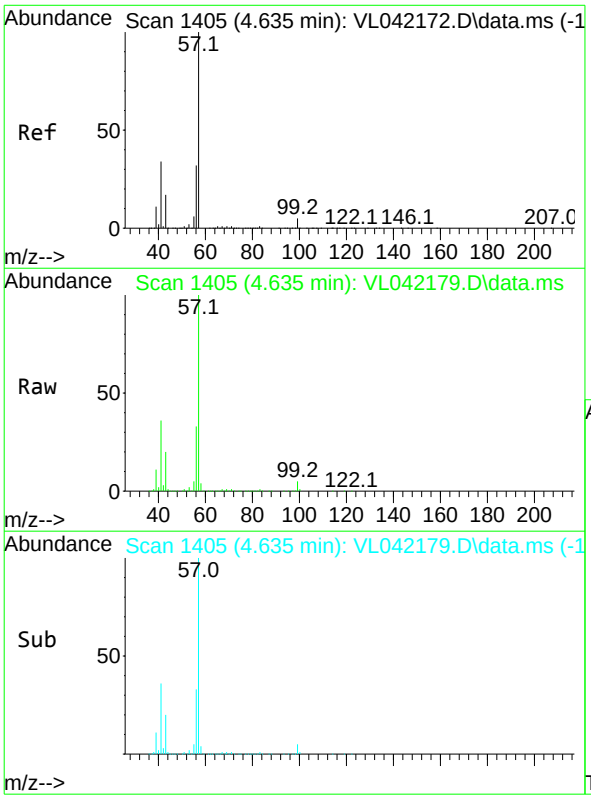
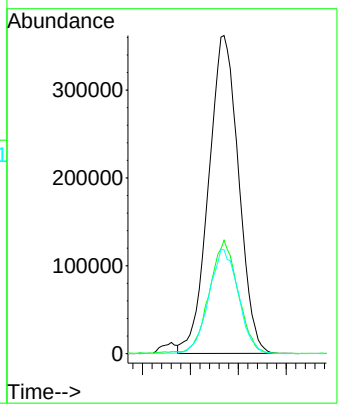
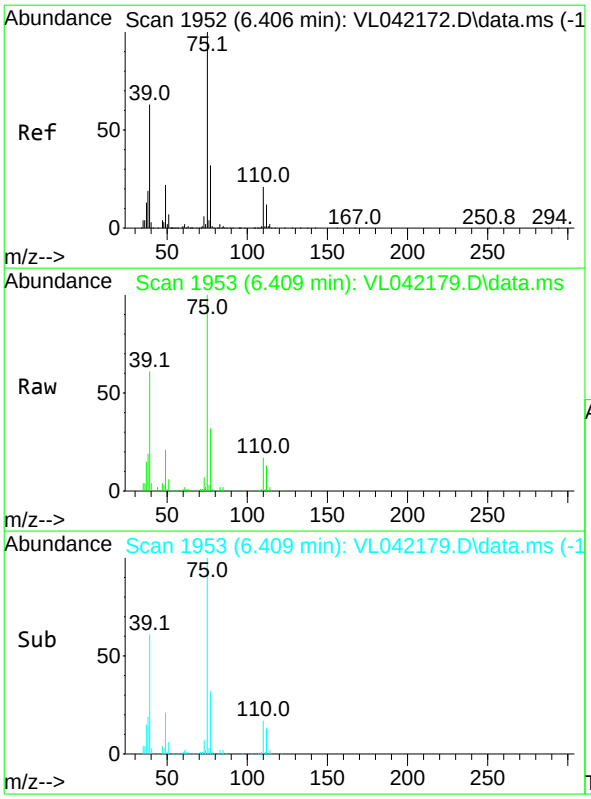



#44
2,2,4-Trimethylpentane
Concen: 9.436 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 57 Resp: 787400

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 34.3 | 26.8 | 40.2 |
| 56 | 32.5 | 25.6 | 38.4 |

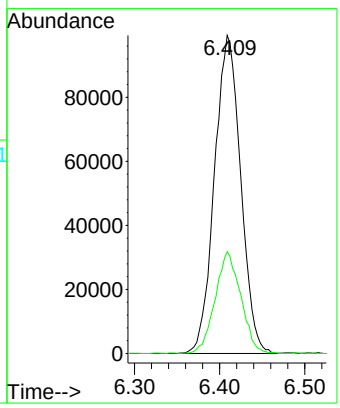





#45
t-1,3-Dichloropropene
Concen: 9.467 ppbv
RT: 6.409 min Scan# 19
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 75 Resp: 212335

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.0 | 26.0 | 39.0 |

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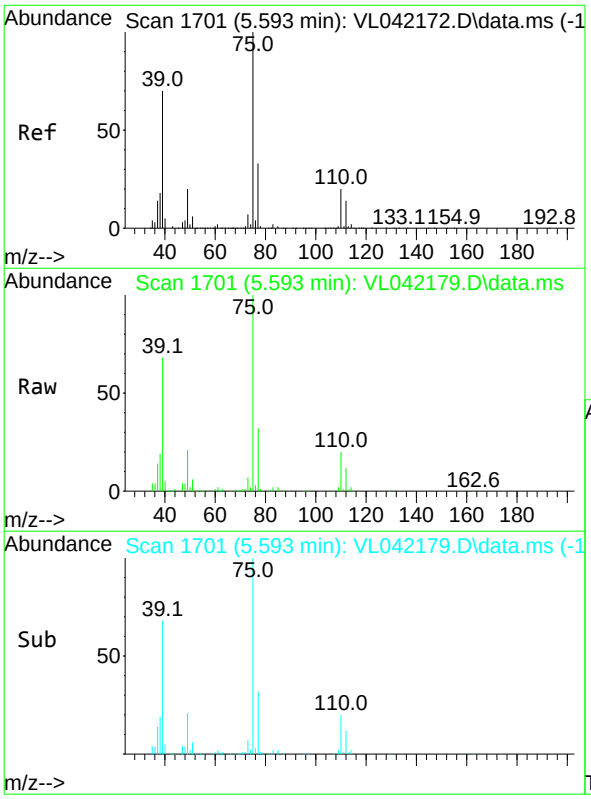
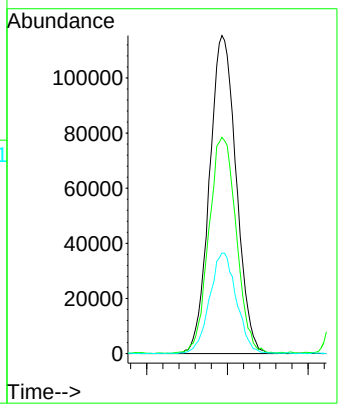
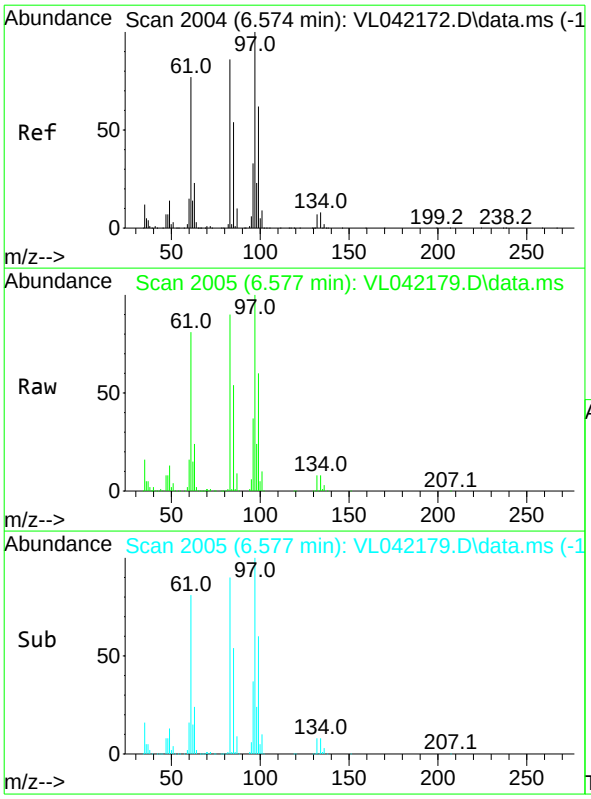



#46
cis-1,3-Dichloropropene
Concen: 9.643 ppbv
RT: 5.593 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 75 Resp: 265101

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 39 | 67.8 | 55.8 | 83.6 |
| 77 | 31.6 | 26.0 | 39.0 |

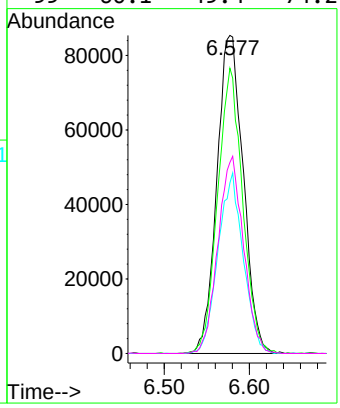





#47
1,1,2-Trichloroethane
Concen: 9.638 ppbv
RT: 6.577 min Scan# 20
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 97 Resp: 183228

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 89.7 | 69.2 | 103.8 |
| 85 | 53.6 | 43.1 | 64.7 |
| 99 | 60.1 | 49.4 | 74.2 |

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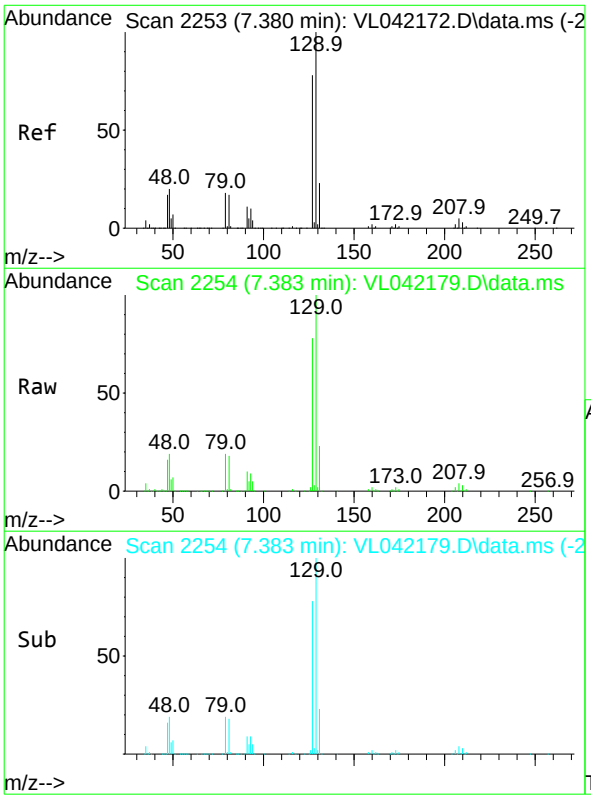
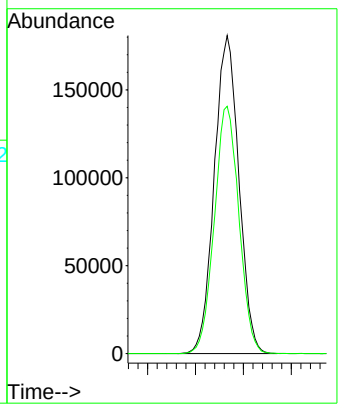
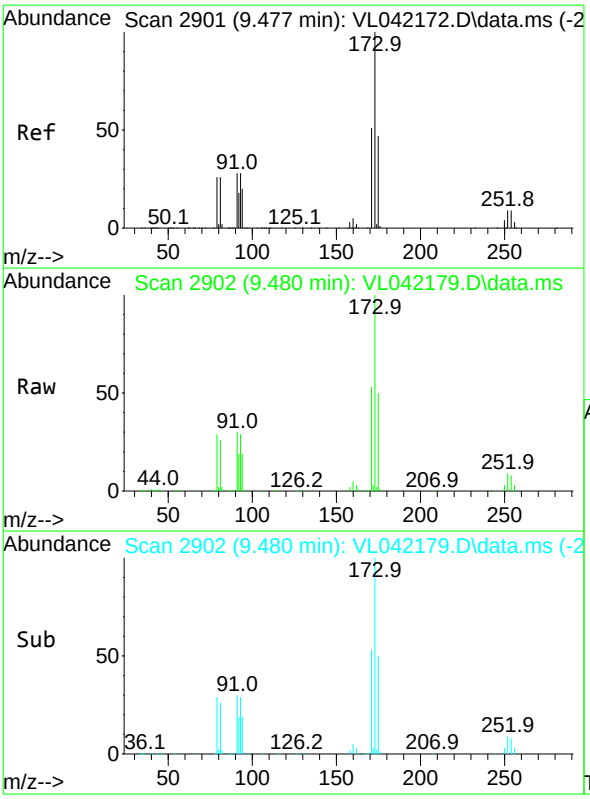



#48
Dibromochloromethane
Concen: 10.018 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:129 Resp: 322766

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.7 | 39.1 | 117.2 |

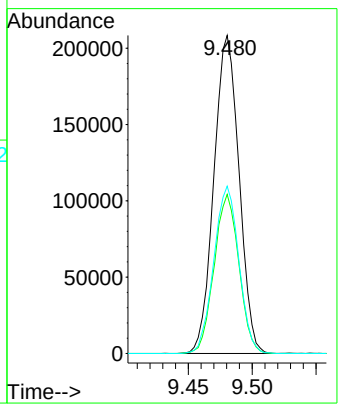





#49
Bromoform
Concen: 9.858 ppbv
RT: 9.480 min Scan# 29
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:173 Resp: 285149

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.2 | 38.6 | 57.8 |
| 171 | 52.4 | 41.8 | 62.6 |




**Instrument :**
MSVOA_L
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ICVVL032725

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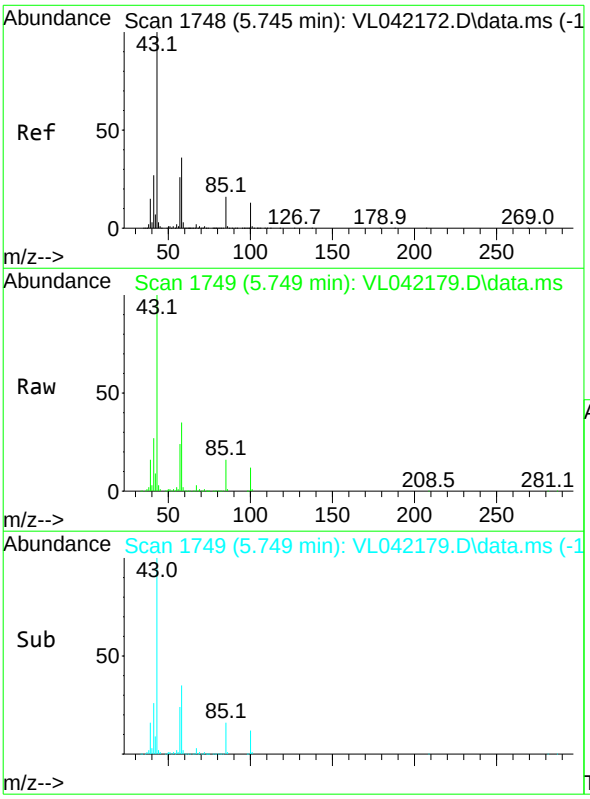
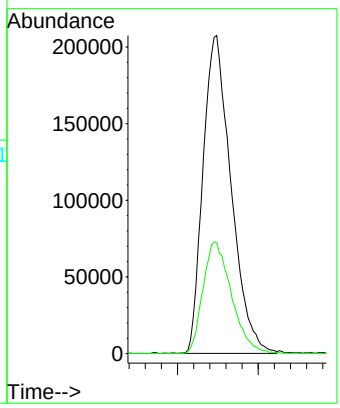
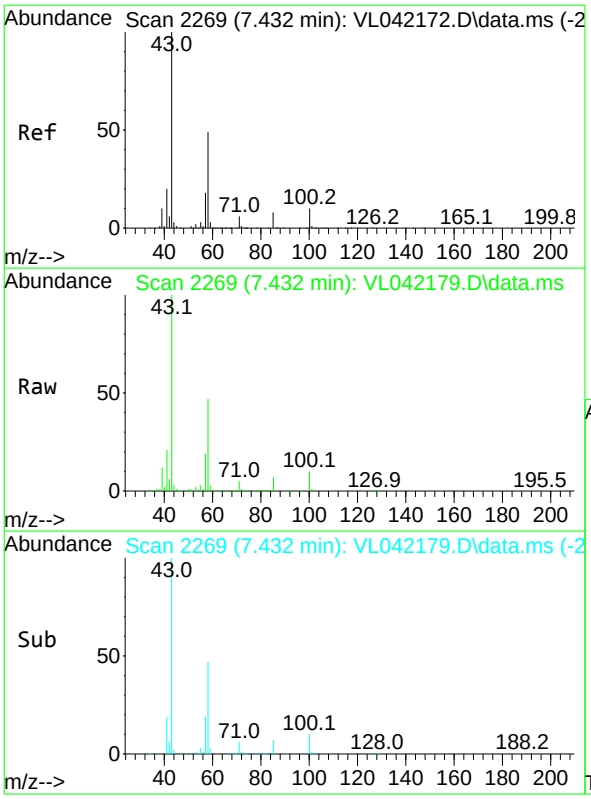



#50
4-Methyl-2-Pentanone
Concen: 8.749 ppbv
RT: 5.749 min Scan# 1749
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 43 Resp: 500791

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 35.8 | 29.0 | 43.6 |

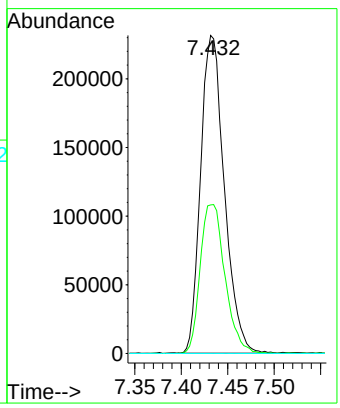





#51
2-Hexanone
Concen: 8.741 ppbv
RT: 7.432 min Scan# 22
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 43 Resp: 410889

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 48.9 | 39.7 | 59.5 |
| 98 | 0.0 | 0.1 | 0.1# |

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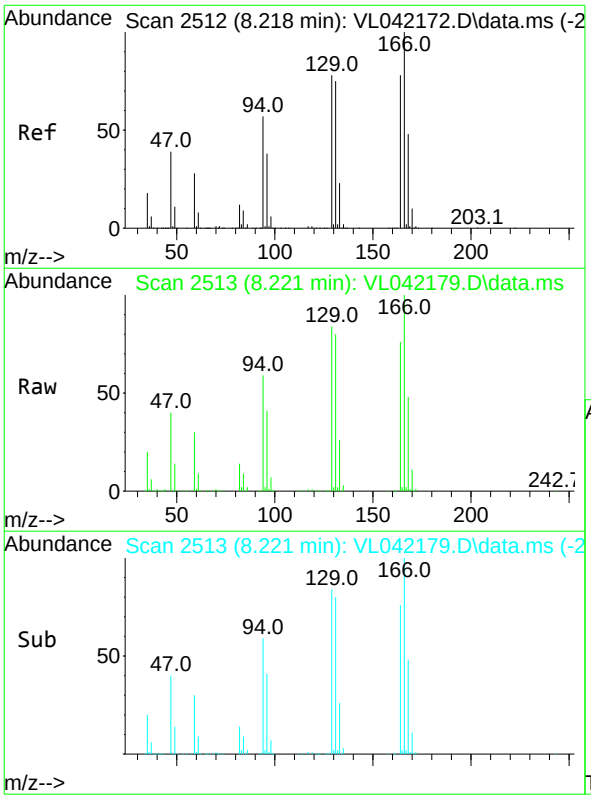
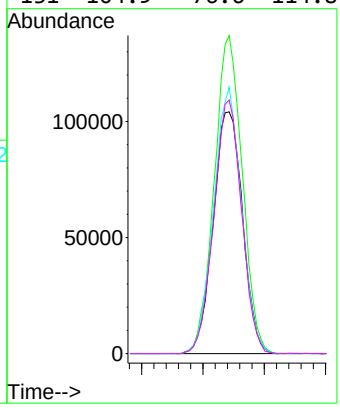
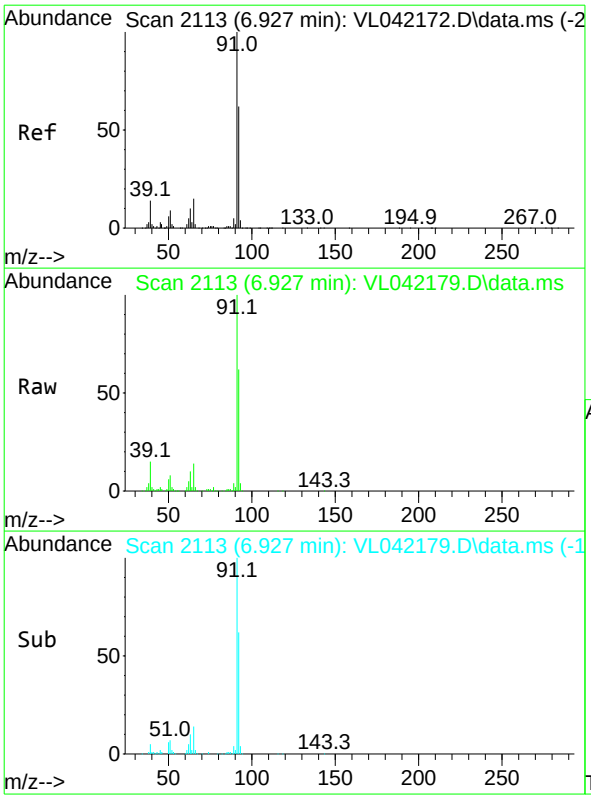



#52
Tetrachloroethene
Concen: 8.855 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:164 Resp: 173420

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 131.6 | 102.5 | 153.7 |
| 129 | 110.1 | 79.8 | 119.8 |
| 131 | 104.9 | 76.6 | 114.8 |

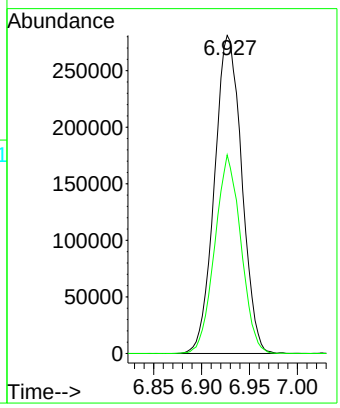





#53
Toluene
Concen: 9.514 ppbv
RT: 6.927 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 91 Resp: 556897

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 59.8 | 48.4 | 72.6 |

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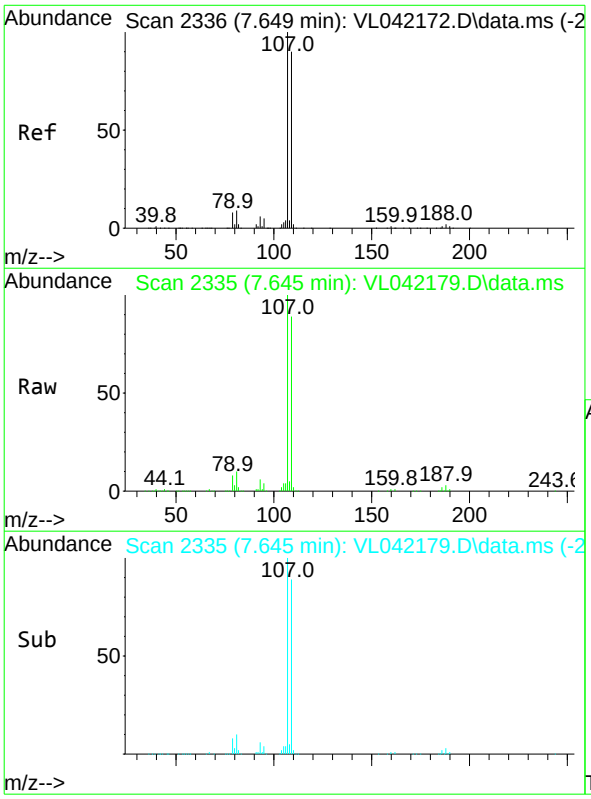
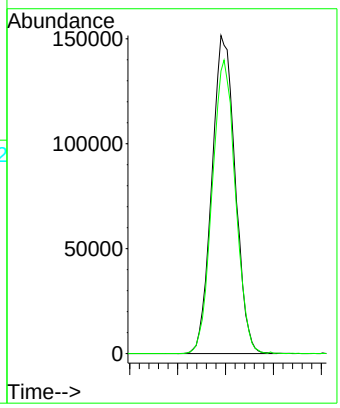
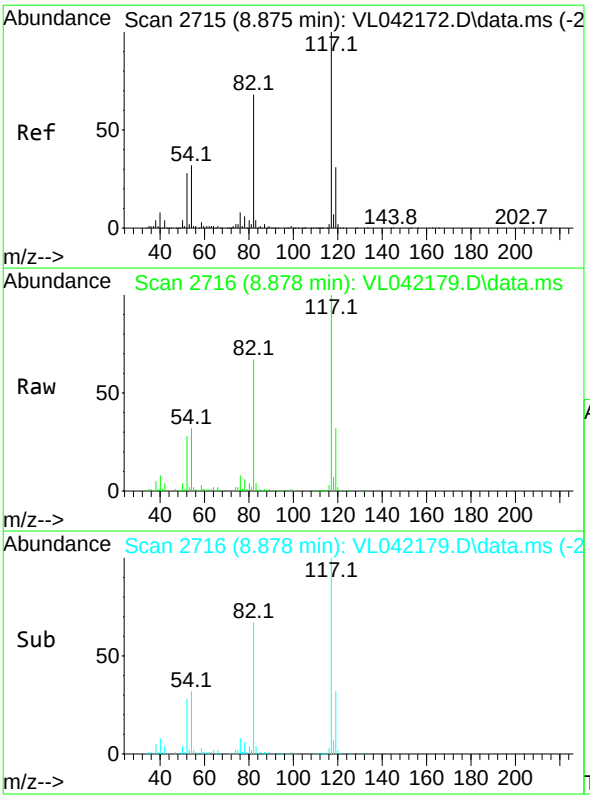



#54
1,2-Dibromoethane
Concen: 9.695 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:107 Resp: 256930

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 88.9 | 72.2 | 108.4 |

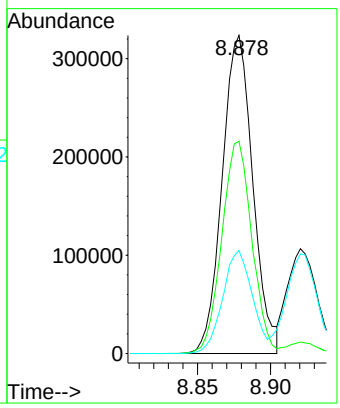





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 27
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:117 Resp: 473357

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 68.7 | 55.8 | 83.6 |
| 119 | 31.2 | 25.5 | 38.3 |

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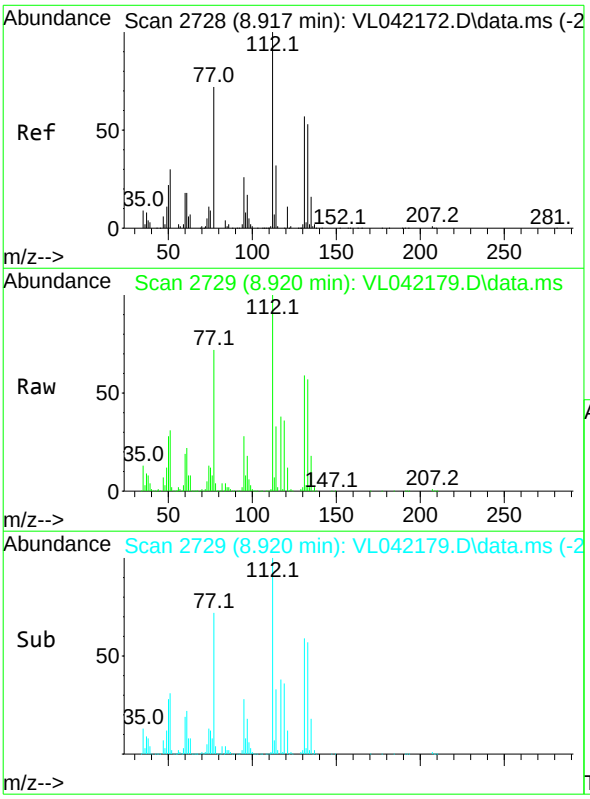
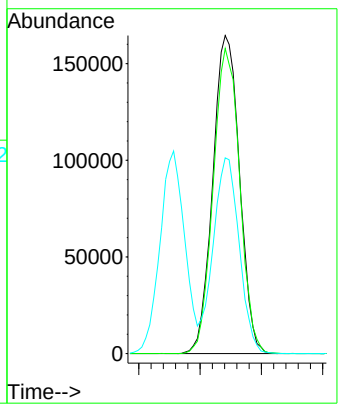
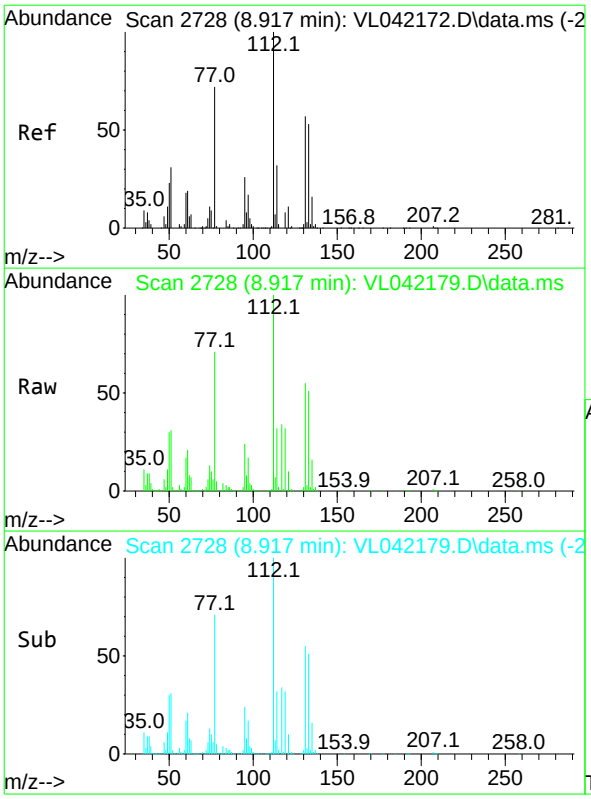



#56
1,1,1,2-Tetrachloroethane
Concen: 9.567 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:131 Resp: 249270

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.0 | 76.6 | 114.8 |
| 119 | 61.3 | 49.8 | 74.6 |

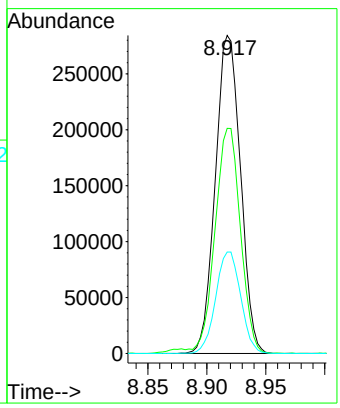





#57
Chlorobenzene
Concen: 9.411 ppbv
RT: 8.917 min Scan# 27
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:112 Resp: 422531

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 70.6 | 58.2 | 87.2 |
| 114 | 31.9 | 29.1 | 35.5 |




**Instrument :**
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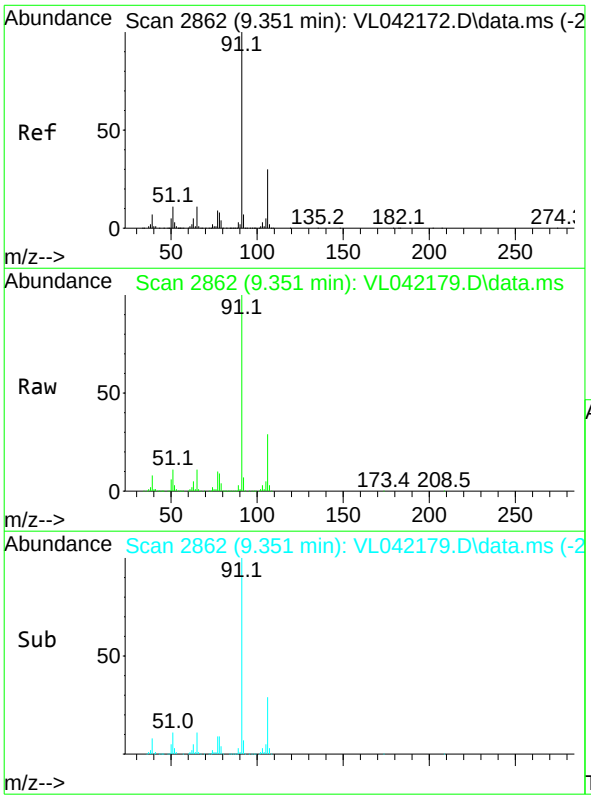
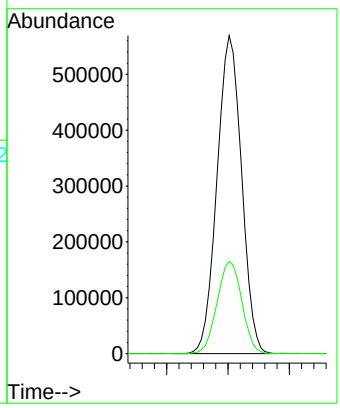
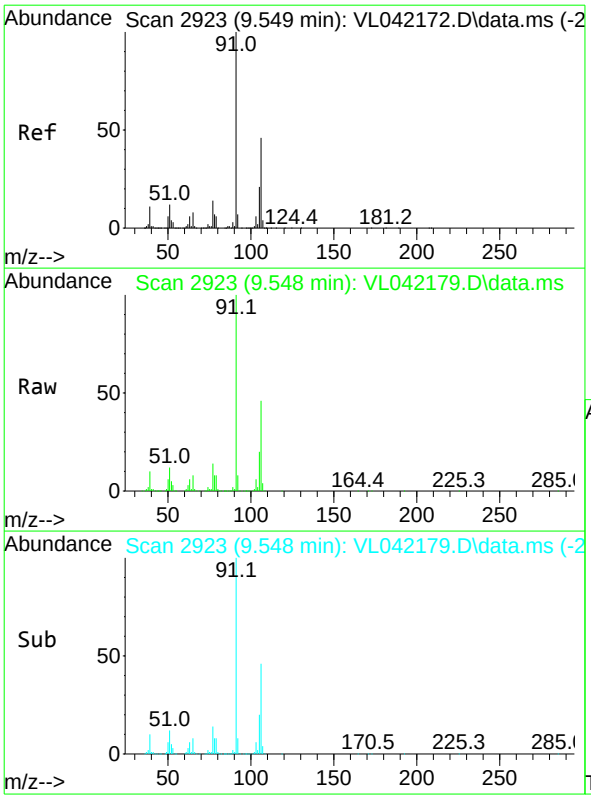



#58
Ethyl Benzene
Concen: 9.412 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 91 Resp: 791360

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 28.9 | 24.2 | 36.2 |

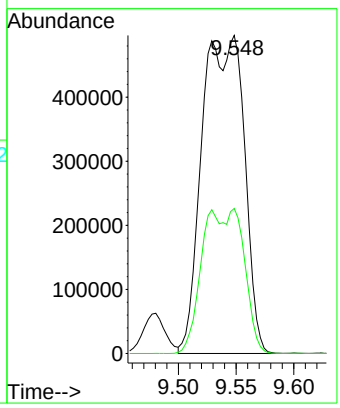





#59
m/p-Xylene
Concen: 18.772 ppbv m
RT: 9.548 min Scan# 29
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 91 Resp: 1260340

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 45.3 | 36.4 | 54.6 |




**Instrument :**
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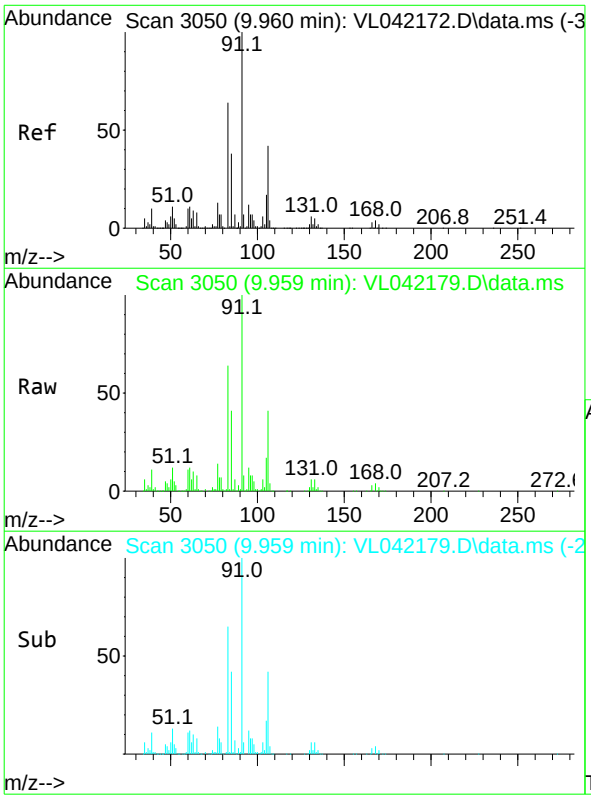
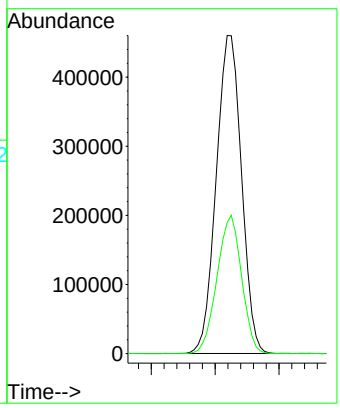
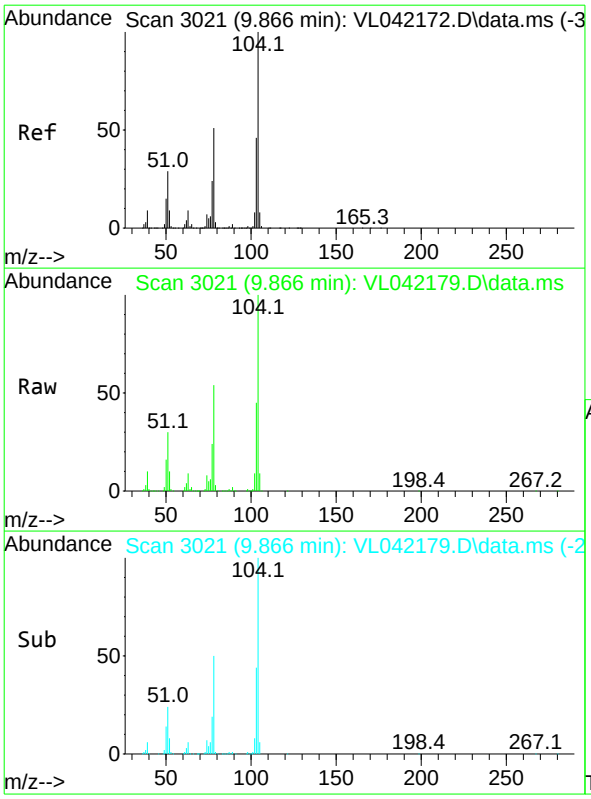



#60
o-Xylene
Concen: 9.404 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 91 Resp: 632918

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 42.2 | 20.8 | 62.5 |

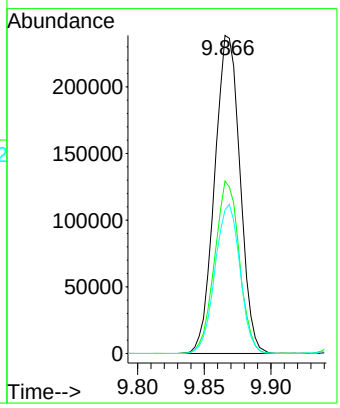





#61
Styrene
Concen: 9.488 ppbv
RT: 9.866 min Scan# 30
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:104 Resp: 315910

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 52.8 | 41.8 | 62.6 |
| 103 | 46.3 | 37.0 | 55.4 |

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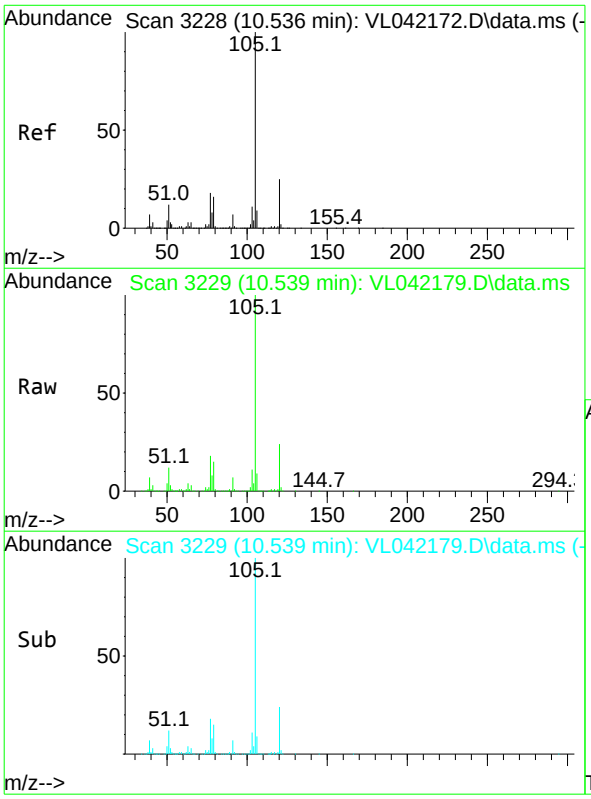
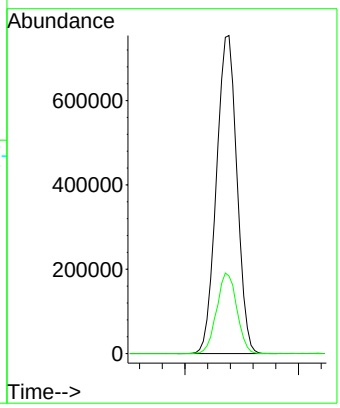
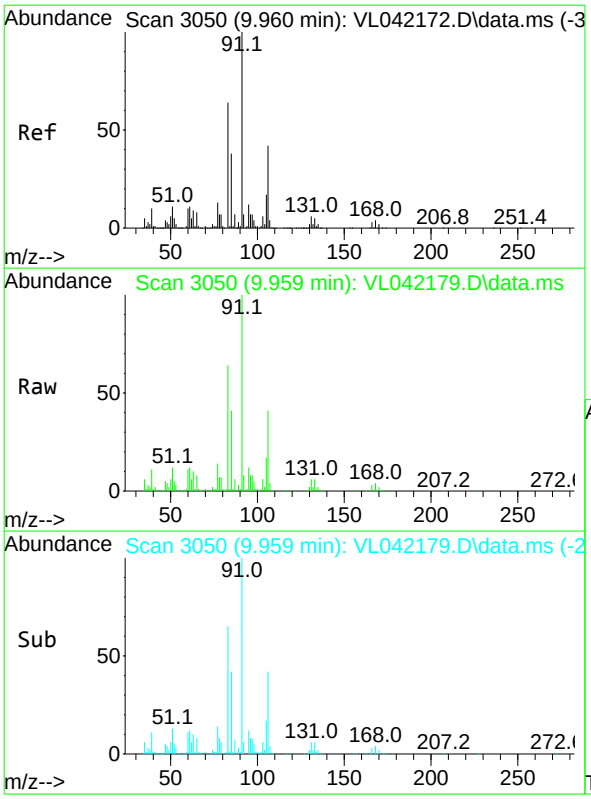



#62
Isopropylbenzene
Concen: 9.388 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:105 Resp: 944938

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 24.9 | 19.9 | 29.9 |

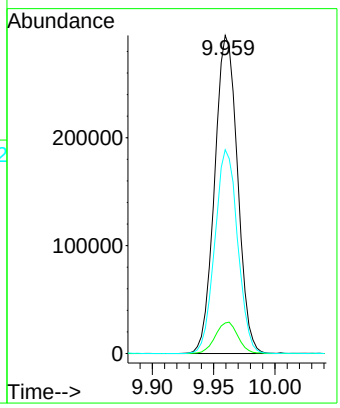





#63
1,1,2,2-Tetrachloroethane
Concen: 9.357 ppbv
RT: 9.959 min Scan# 30
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 83 Resp: 382635

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.7 | 4.8 | 14.4 |
| 85 | 63.9 | 32.5 | 97.5 |

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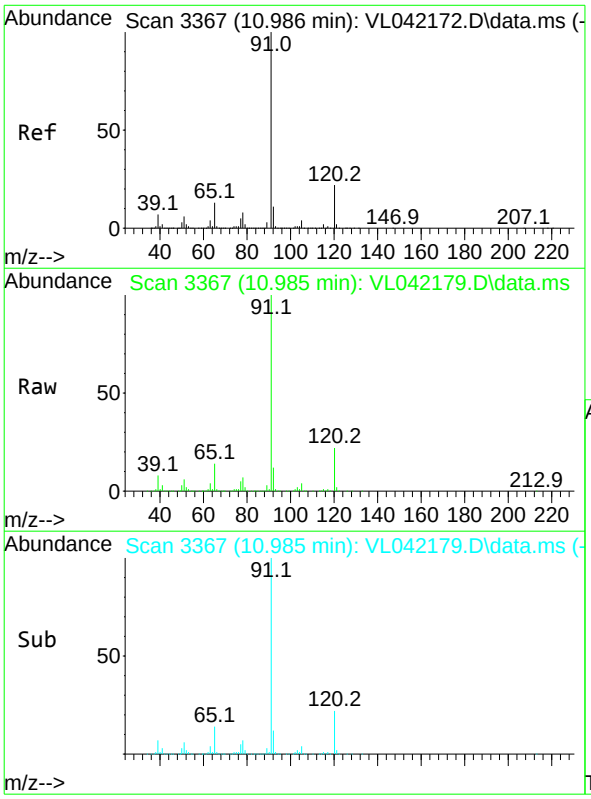
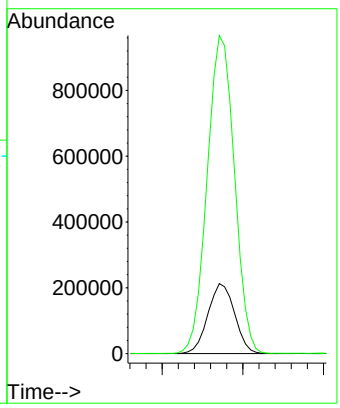
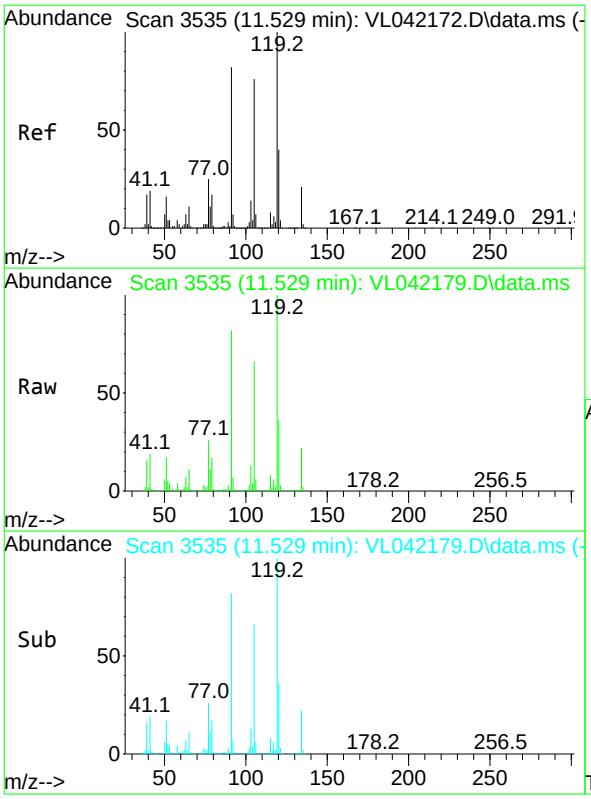



#64
n-propylbenzene
Concen: 9.439 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:120 Resp: 244547

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 465.9 | 376.9 | 565.3 |

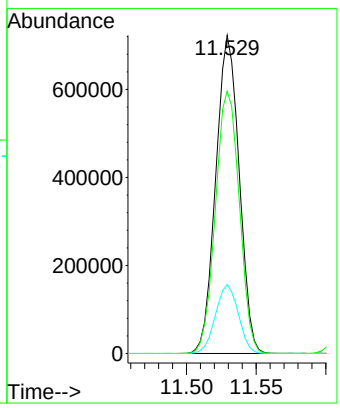





#65
tert-Butylbenzene
Concen: 9.065 ppbv
RT: 11.529 min Scan# 35
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:119 Resp: 843828

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 84.3 | 66.0 | 99.0 |
| 134 | 21.2 | 16.7 | 25.1 |

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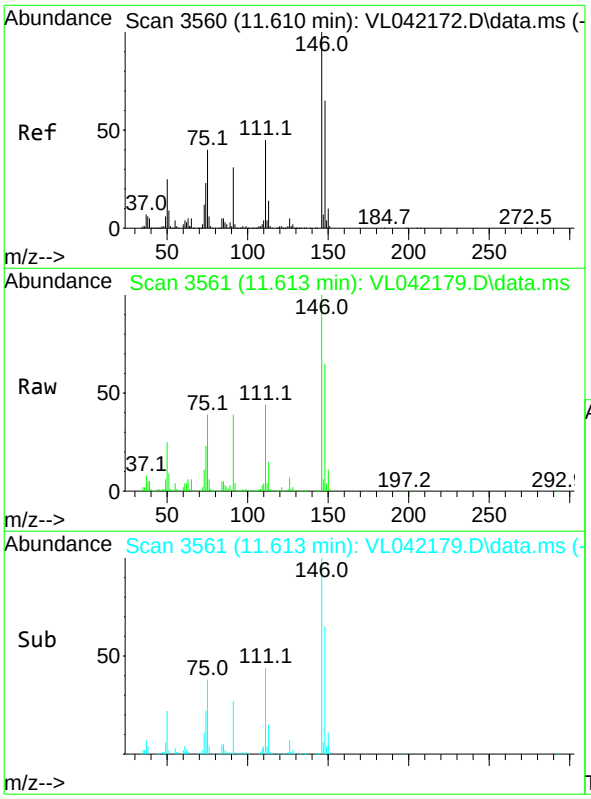
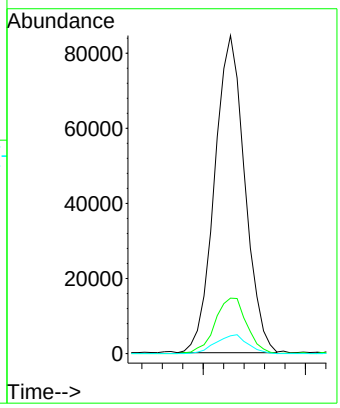
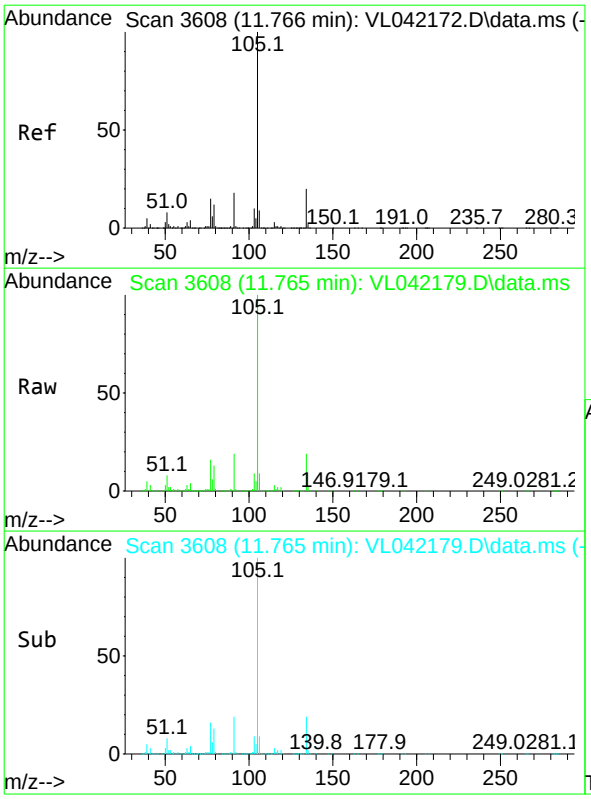



#66
Benzyl Chloride
Concen: 8.789 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 91 Resp: 86804

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 18.5 | 13.8 | 20.6 |
| 128 | 6.2 | 4.5 | 6.7 |

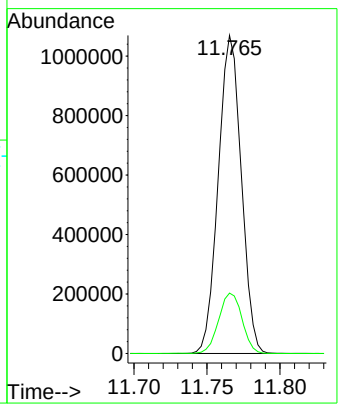





#67
sec-Butylbenzene
Concen: 9.063 ppbv
RT: 11.765 min Scan# 36
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:105 Resp: 1172636

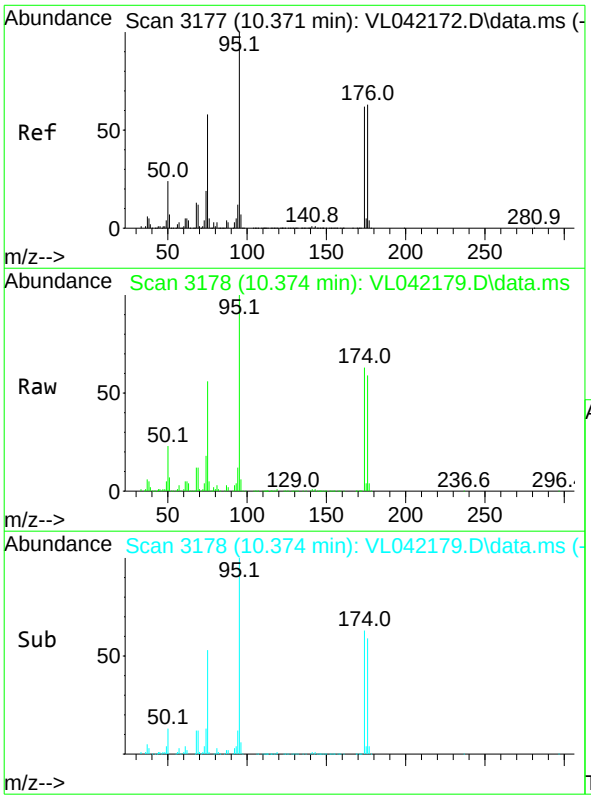
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.4 | 15.5 | 23.3 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

**Manual Integrations**
**APPROVED**

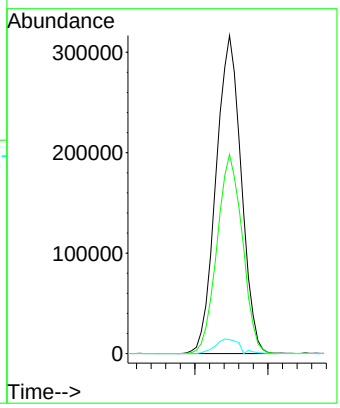
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

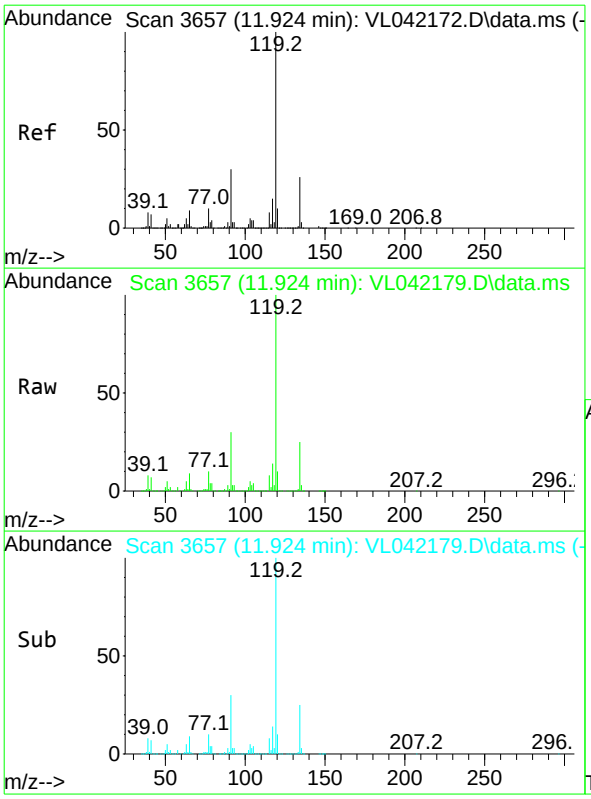



#68
1-Bromo-4-Fluorobenzene
Concen: 9.774 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 95 Resp: 379929

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 63.0 | 50.6 | 76.0 |
| 175 | 4.4 | 3.8 | 5.6 |

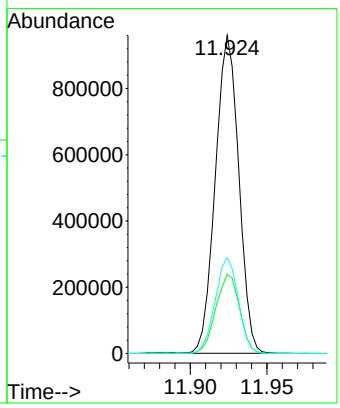





#69
p-Isopropyltoluene
Concen: 9.153 ppbv
RT: 11.924 min Scan# 36
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:119 Resp: 1019694

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.3 | 20.4 | 30.6 |
| 91 | 29.9 | 23.7 | 35.5 |




**Instrument :**
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ICVVL032725

**Manual Integrations**
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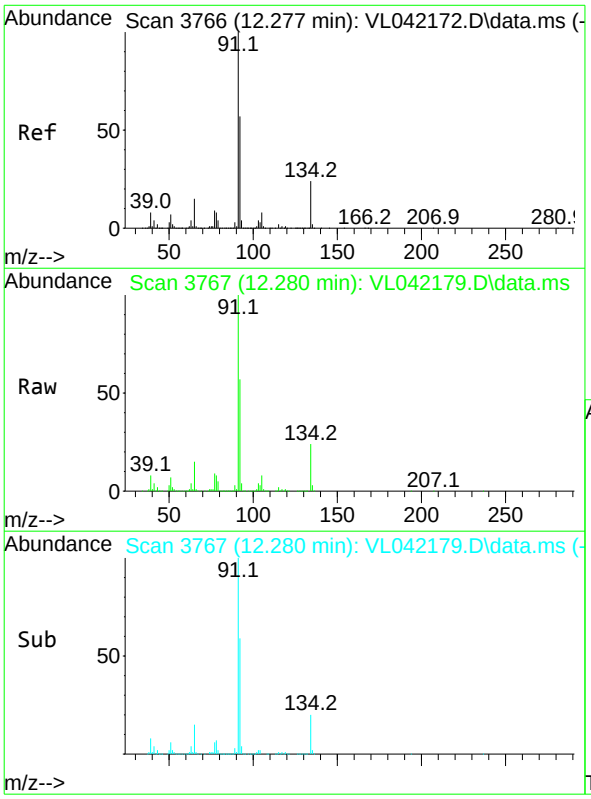
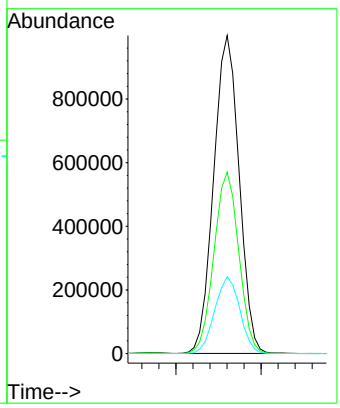
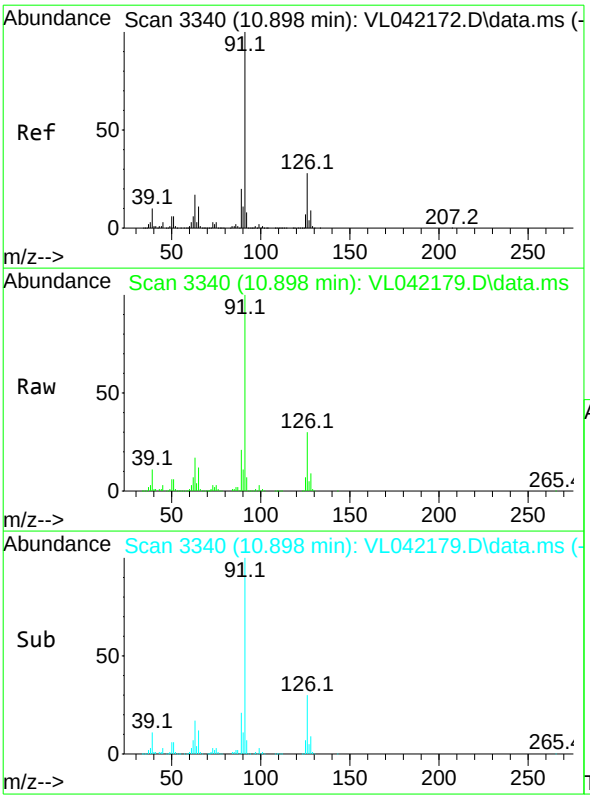



#70
n-Butylbenzene
Concen: 9.115 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 91 Resp: 1038548

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 56.0 | 44.9 | 67.3 |
| 134 | 23.8 | 19.2 | 28.8 |

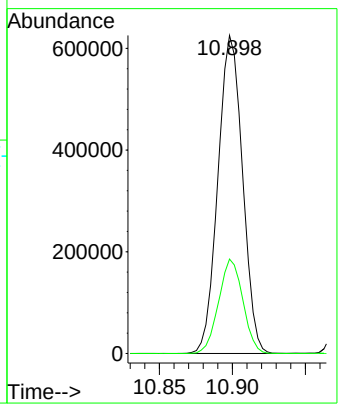





#71
2-Chlorotoluene
Concen: 9.382 ppbv
RT: 10.898 min Scan# 33
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 91 Resp: 732874

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 29.2 | 11.6 | 46.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

**Manual Integrations**
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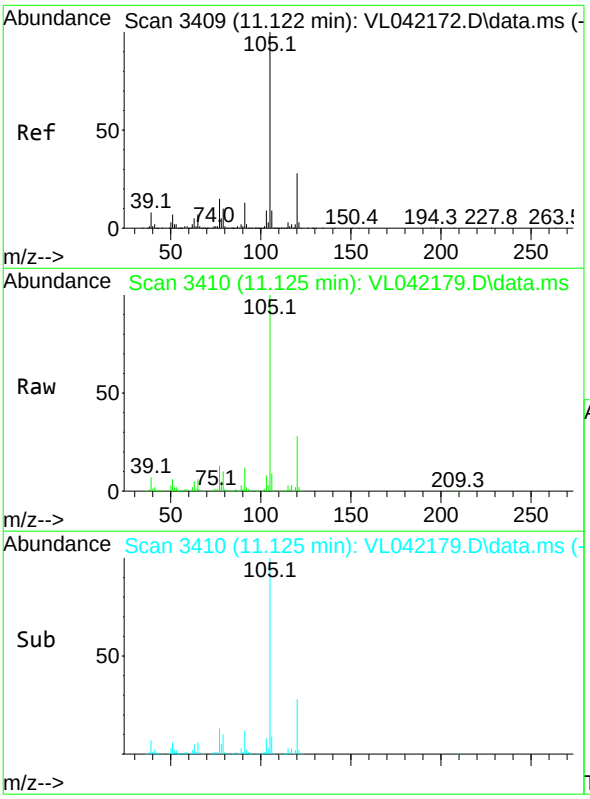
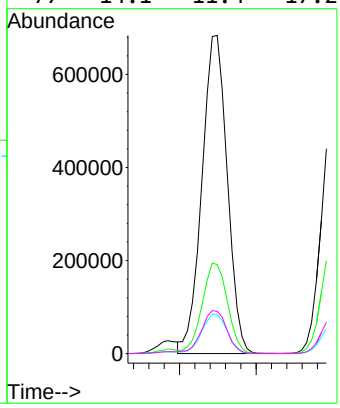
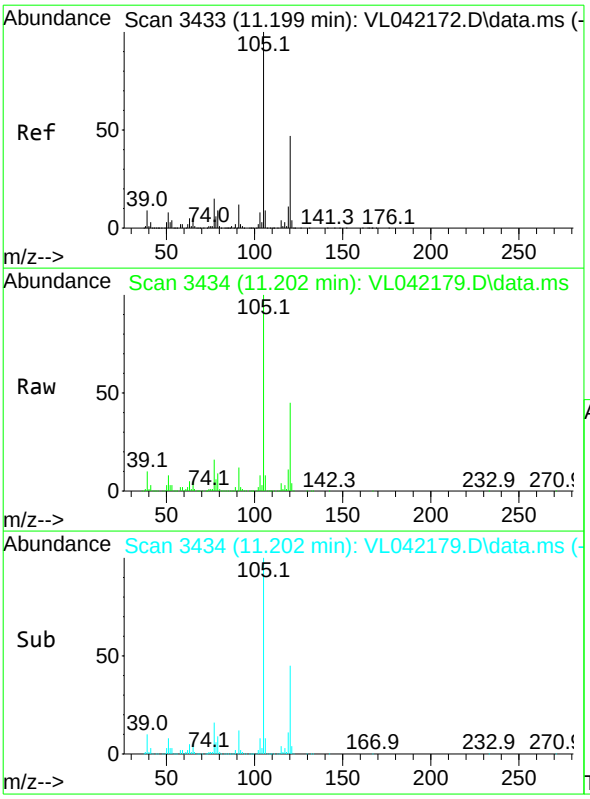



#72
4-Ethyltoluene
Concen: 9.370 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:105 Resp: 785185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 29.6 | 23.4 | 35.0 |
| 91 | 12.9 | 10.3 | 15.5 |
| 77 | 14.1 | 11.4 | 17.2 |

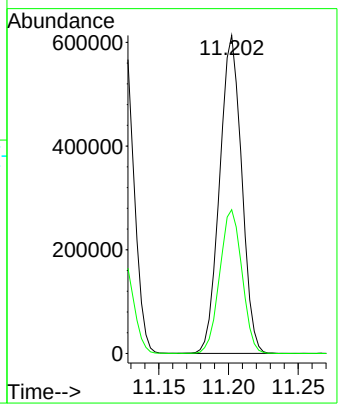





#73
1,3,5-Trimethylbenzene
Concen: 9.203 ppbv
RT: 11.202 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:105 Resp: 673541

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.2 | 37.4 | 56.0 |

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MSVOA_L
**ClientSampleId :**
ICVVL032725

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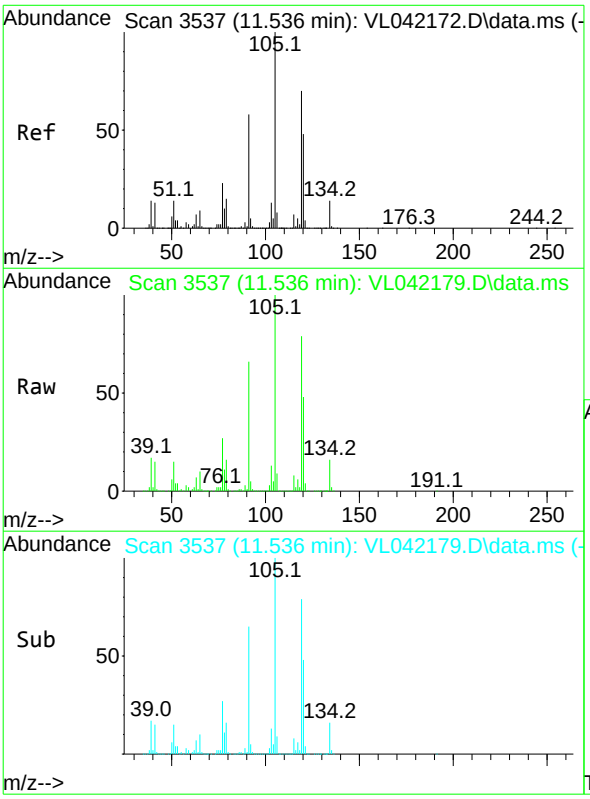
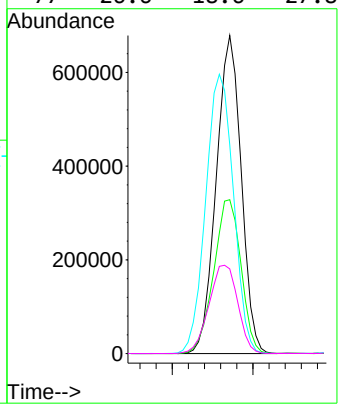
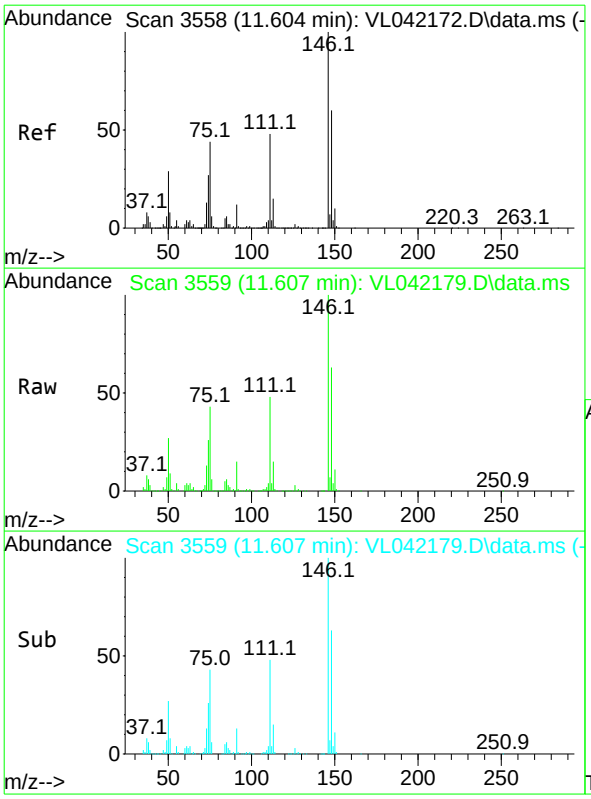



#74
1,2,4-Trimethylbenzene
Concen: 8.648 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:105 Resp: 729155

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.4 | 38.6 | 58.0 |
| 91 | 65.6 | 46.2 | 69.2 |
| 77 | 26.6 | 18.6 | 27.8 |

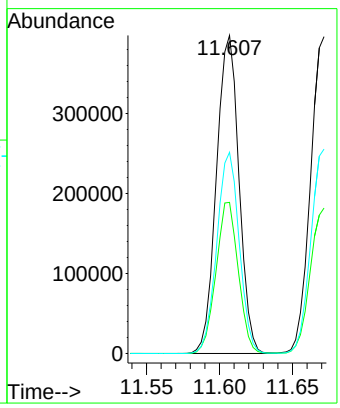





#75
1,3-Dichlorobenzene
Concen: 9.224 ppbv
RT: 11.607 min Scan# 35
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:146 Resp: 426573

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 47.2 | 23.8 | 71.2 |
| 148 | 62.9 | 31.9 | 95.9 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

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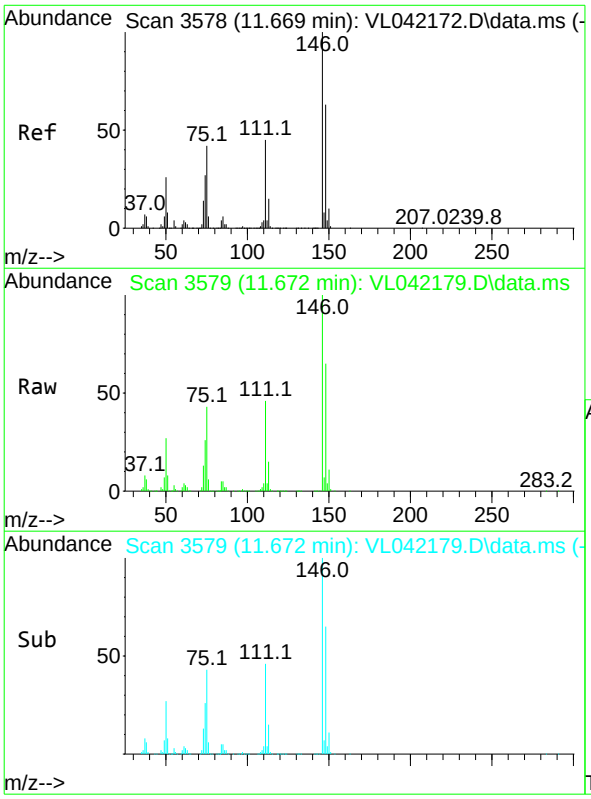
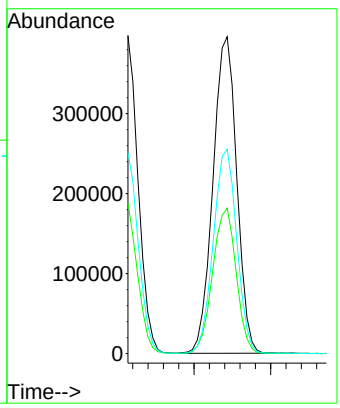
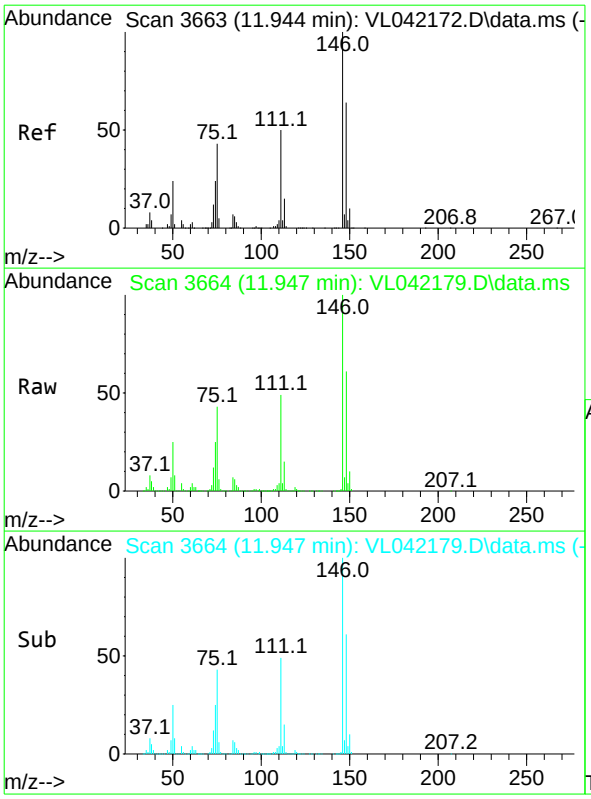



#76
1,4-Dichlorobenzene
Concen: 9.263 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:146 Resp: 426318

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 45.6 | 23.0 | 69.0 |
| 148 | 64.1 | 31.9 | 95.7 |

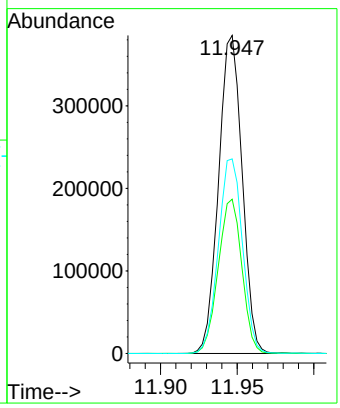





#77
1,2-Dichlorobenzene
Concen: 9.154 ppbv
RT: 11.947 min Scan# 36
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:146 Resp: 412180

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 48.8 | 24.8 | 74.3 |
| 148 | 62.8 | 31.6 | 94.8 |

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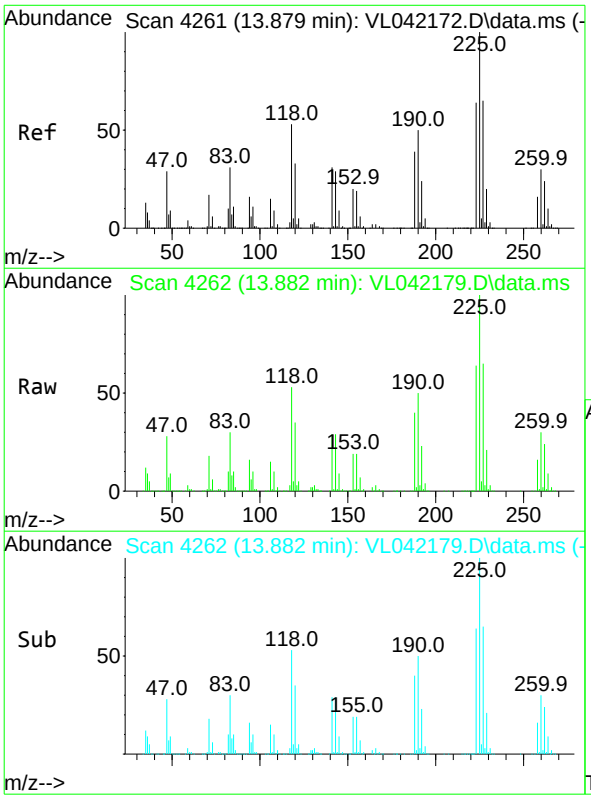
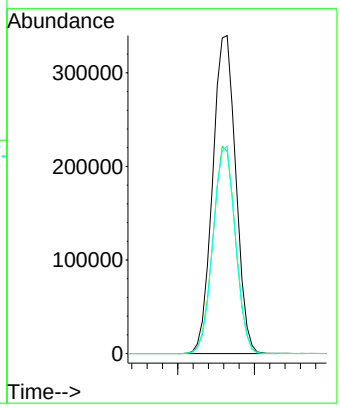
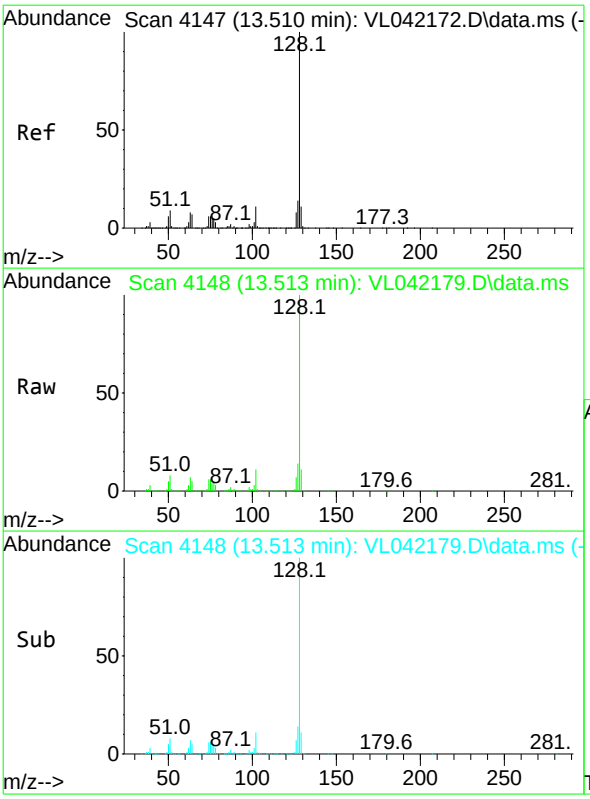



#78
Hexachloro-1,3-Butadiene
Concen: 7.776 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:225 Resp: 356386

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.4 | 50.6 | 76.0 |
| 227 | 63.4 | 51.2 | 76.8 |

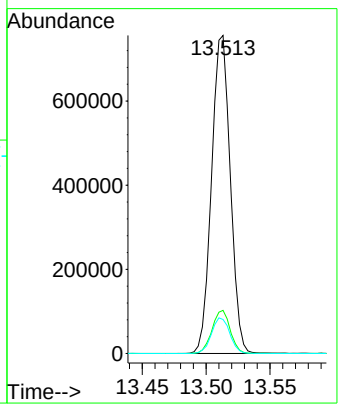





#79
Naphthalene
Concen: 8.385 ppbv
RT: 13.513 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:128 Resp: 773311

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.6 | 10.8 | 16.2 |
| 129 | 10.7 | 9.0 | 13.4 |

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ICVVL032725

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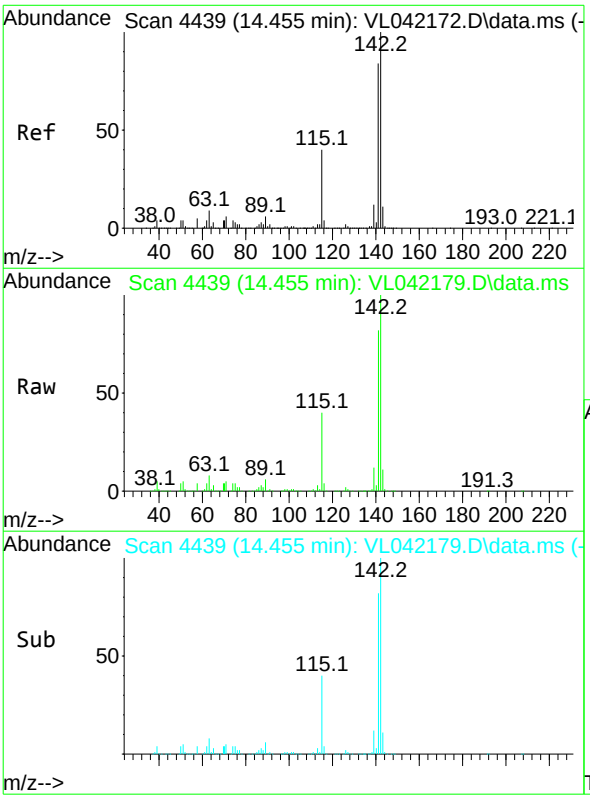
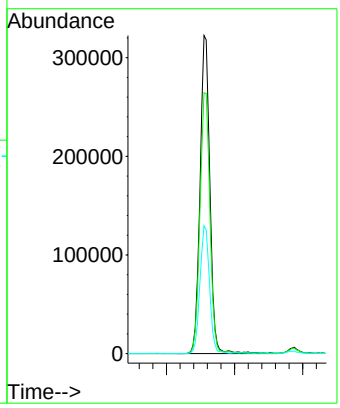
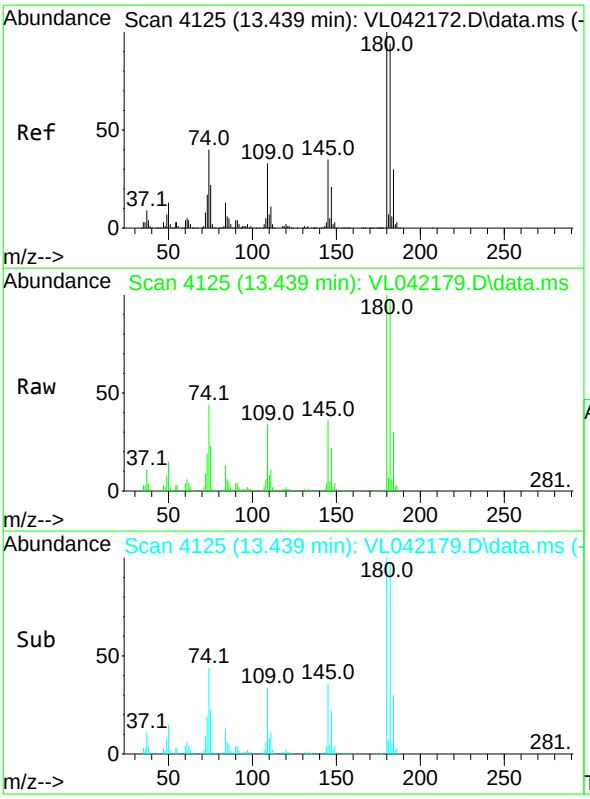



#80
Naphthalene,2-methyl-
Concen: 7.151 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:142 Resp: 323443

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 83.5 | 66.3 | 99.5 |
| 115 | 39.8 | 31.6 | 47.4 |

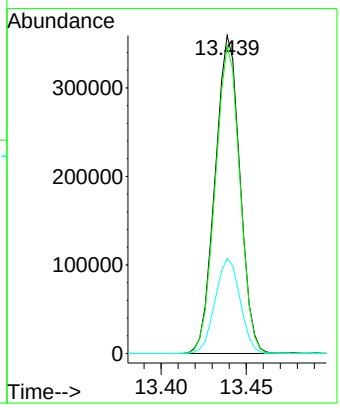





#81
1,2,4-Trichlorobenzene
Concen: 8.553 ppbv
RT: 13.439 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:180 Resp: 363863

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.2 | 75.1 | 112.7 |
| 184 | 30.1 | 24.4 | 36.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042179.D
Acq On : 27 Mar 2025 12:23
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

Quant Time: Mar 28 02:05:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Bromochloromethane | 1.000 | 1.000 | 0.0 | 93 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 1.476 | 1.409 | 4.5 | 94 | 0.00 |
| 3 | | Chlorodifluoromethane | 1.508 | 1.417 | 6.0 | 91 | 0.00 |
| 4 | | Chloromethane | 0.603 | 0.565 | 6.3 | 92 | 0.00 |
| 5 | T | Vinyl Chloride | 0.639 | 0.548 | 14.2 | 93 | 0.00 |
| 6 | T | Bromomethane | 0.273 | 0.241 | 11.7 | 87 | 0.00 |
| 7 | | Chloroethane | 0.242 | 0.215 | 11.2 | 88 | 0.00 |
| 8 | T | Dichlorotetrafluoroethane | 1.257 | 1.226 | 2.5 | 94 | 0.00 |
| 9 | T | Propene | 0.691 | 0.604 | 12.6 | 85 | 0.00 |
| 10 | T | Heptane | 1.839 | 1.714 | 6.8 | 89 | 0.00 |
| 11 | T | Trichlorofluoromethane | 1.437 | 1.358 | 5.5 | 95 | 0.00 |
| 12 | T | 1,1,2-Trichlorotrifluoroeth | 1.181 | 1.113 | 5.8 | 93 | 0.00 |
| 13 | | Ethanol | 0.065 | 0.033# | 49.2# | 108 | 0.00 |
| 14 | T | Bromoethene | 0.452 | 0.422 | 6.6 | 94 | 0.00 |
| 15 | T | Acetone | 1.399 | 1.137 | 18.7 | 95 | 0.00 |
| 16 | T | 1,3-Butadiene | 0.683 | 0.561 | 17.9 | 91 | 0.00 |
| 17 | | tert-Butyl alcohol | 1.742 | 1.584 | 9.1 | 91 | 0.00 |
| 18 | T | 1,1-Dichloroethene | 0.552 | 0.500 | 9.4 | 92 | 0.00 |
| 19 | T | Isopropyl Alcohol | 0.789 | 0.704 | 10.8 | 93 | 0.00 |
| 20 | T | Methylene Chloride | 0.521 | 0.418 | 19.8 | 89 | 0.00 |
| 21 | T | Allyl Chloride | 0.986 | 0.903 | 8.4 | 93 | 0.00 |
| 22 | T | trans-1,2-Dichloroethene | 0.638 | 0.580 | 9.1 | 92 | 0.00 |
| 23 | T | Vinyl Acetate | 0.605 | 0.518 | 14.4 | 97 | 0.00 |
| 24 | T | 1,1-Dichloroethane | 1.183 | 1.135 | 4.1 | 94 | 0.00 |
| 25 | T | Ethyl Acetate | 3.630 | 3.399 | 6.4 | 92 | 0.00 |
| 26 | T | Hexane | 1.402 | 1.326 | 5.4 | 93 | 0.00 |
| 27 | T | Carbon Disulfide | 1.503 | 1.427 | 5.1 | 93 | 0.00 |
| 28 | T | Methyl tert-Butyl Ether | 0.873 | 0.840 | 3.8 | 94 | 0.00 |
| 29 | T | Chloroform | 2.052 | 1.974 | 3.8 | 95 | 0.00 |
| 30 | T | Cyclohexane | 1.217 | 1.135 | 6.7 | 91 | 0.00 |
| 31 | T | cis-1,2-Dichloroethene | 1.423 | 1.345 | 5.5 | 91 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 2.349 | 2.096 | 10.8 | 95 | 0.00 |
| 33 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 91 | 0.00 |
| 34 | T | 2-Butanone | 0.725 | 0.665 | 8.3 | 91 | 0.00 |
| 35 | T | Carbon Tetrachloride | 0.781 | 0.730 | 6.5 | 95 | 0.00 |
| 36 | T | Benzene | 0.991 | 0.926 | 6.6 | 91 | 0.00 |
| 37 | T | 1,2-Dichloroethane | 0.568 | 0.549 | 3.3 | 93 | 0.00 |
| 38 | T | Trichloroethene | 0.414 | 0.385 | 7.0 | 94 | 0.00 |
| 39 | T | 1,2-Dichloropropane | 0.361 | 0.343 | 5.0 | 93 | 0.00 |
| 40 | T | 1,4-Dioxane | 0.192 | 0.162 | 15.6 | 87 | 0.00 |
| 41 | T | Tetrahydrofuran | 0.418 | 0.394 | 5.7 | 90 | 0.00 |
| 42 | T | Bromodichloromethane | 0.782 | 0.771 | 1.4 | 92 | 0.00 |
| 43 | | Methyl Methacrylate | 0.420 | 0.392 | 6.7 | 89 | 0.00 |
| 44 | T | 2,2,4-Trimethylpentane | 1.675 | 1.581 | 5.6 | 90 | 0.00 |
| 45 | T | t-1,3-Dichloropropene | 0.450 | 0.426 | 5.3 | 89 | 0.00 |
| 46 | T | cis-1,3-Dichloropropene | 0.552 | 0.532 | 3.6 | 88 | 0.00 |
| 47 | T | 1,1,2-Trichloroethane | 0.382 | 0.368 | 3.7 | 92 | 0.00 |
| 48 | T | Dibromochloromethane | 0.647 | 0.648 | -0.2 | 93 | 0.00 |

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042179.D
Acq On : 27 Mar 2025 12:23
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

Quant Time: Mar 28 02:05:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | Bromoform | 0.581 | 0.572 | 1.5 | 90 | 0.00 |
| 50 | T | 4-Methyl-2-Pentanone | 1.149 | 1.005 | 12.5 | 89 | 0.00 |
| 51 | T | 2-Hexanone | 0.944 | 0.825 | 12.6 | 89 | 0.00 |
| 52 | T | Tetrachloroethene | 0.393 | 0.348 | 11.5 | 93 | 0.00 |
| 53 | T | Toluene | 1.175 | 1.118 | 4.9 | 91 | 0.00 |
| 54 | T | 1,2-Dibromoethane | 0.532 | 0.516 | 3.0 | 93 | 0.00 |
| 55 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 91 | 0.00 |
| 56 | | 1,1,1,2-Tetrachloroethane | 0.550 | 0.527 | 4.2 | 94 | 0.00 |
| 57 | T | Chlorobenzene | 0.949 | 0.893 | 5.9 | 93 | 0.00 |
| 58 | T | Ethyl Benzene | 1.776 | 1.672 | 5.9 | 91 | 0.00 |
| 59 | T | m/p-Xylene | 1.418 | 1.331 | 6.1 | 92 | 0.00 |
| 60 | T | o-Xylene | 1.422 | 1.337 | 6.0 | 92 | 0.00 |
| 61 | T | Styrene | 0.703 | 0.667 | 5.1 | 89 | 0.00 |
| 62 | | Isopropylbenzene | 2.126 | 1.996 | 6.1 | 93 | 0.00 |
| 63 | T | 1,1,2,2-Tetrachloroethane | 0.864 | 0.808 | 6.5 | 93 | 0.00 |
| 64 | | n-propylbenzene | 0.547 | 0.517 | 5.5 | 94 | 0.00 |
| 65 | | tert-Butylbenzene | 1.966 | 1.783 | 9.3 | 94 | 0.00 |
| 66 | T | Benzyl Chloride | 0.209 | 0.183 | 12.4 | 82 | 0.00 |
| 67 | | sec-Butylbenzene | 2.733 | 2.477 | 9.4 | 94 | 0.00 |
| 68 | S | 1-Bromo-4-Fluorobenzene | 0.821 | 0.803 | 2.2 | 90 | 0.00 |
| 69 | | p-Isopropyltoluene | 2.354 | 2.154 | 8.5 | 94 | 0.00 |
| 70 | | n-Butylbenzene | 2.407 | 2.194 | 8.8 | 94 | 0.00 |
| 71 | | 2-Chlorotoluene | 1.650 | 1.548 | 6.2 | 92 | 0.00 |
| 72 | T | 4-Ethyltoluene | 1.770 | 1.659 | 6.3 | 93 | 0.00 |
| 73 | T | 1,3,5-Trimethylbenzene | 1.546 | 1.423 | 8.0 | 93 | 0.00 |
| 74 | T | 1,2,4-Trimethylbenzene | 1.781 | 1.540 | 13.5 | 93 | 0.00 |
| 75 | T | 1,3-Dichlorobenzene | 0.977 | 0.901 | 7.8 | 93 | 0.00 |
| 76 | T | 1,4-Dichlorobenzene | 0.972 | 0.901 | 7.3 | 92 | 0.00 |
| 77 | T | 1,2-Dichlorobenzene | 0.951 | 0.871 | 8.4 | 93 | 0.00 |
| 78 | T | Hexachloro-1,3-Butadiene | 0.968 | 0.753 | 22.2 | 86 | 0.00 |
| 79 | T | Naphthalene | 1.948 | 1.634 | 16.1 | 82 | 0.00 |
| 80 | T | Naphthalene,2-methyl- | 0.955 | 0.683 | 28.5 | 63 | 0.00 |
| 81 | T | 1,2,4-Trichlorobenzene | 0.899 | 0.769 | 14.5 | 82 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Response Factor Report MSVOA_L

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL041725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Fri Apr 18 02:14:00 2025
Response Via : Initial Calibration

Calibration Files
0.03=VL042354.D 0.1 =VL042353.D 0.5 =VL042352.D 1 =VL042351.D 2 =VL042350.D 10 =VL042349.D 15 =VL042355.D

| | | Compound | 0.03 | 0.1 | 0.5 | 1 | 2 | 10 | 15 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | Bromochloromethane | ----------ISTD---------- | | | | | | | | |
| 2) | T | Dichlorodifluo... | | | 1.831 | 1.837 | 1.827 | 1.658 | 1.682 | 1.767 | 5.05 |
| 3) | | Chlorodifluoro... | | | 1.876 | 1.657 | 1.698 | 1.573 | 1.608 | 1.682 | 7.01 |
| 4) | | Chloromethane | | | 0.752 | 0.725 | 0.701 | 0.652 | 0.665 | 0.699 | 5.93 |
| 5) | T | Vinyl Chloride | 1.002 | 0.911 | 0.731 | 0.709 | 0.689 | 0.638 | 0.647 | 0.761 | 18.39 |
| 6) | T | Bromomethane | | | 0.397 | 0.330 | 0.300 | 0.304 | 0.303 | 0.327 | 12.56 |
| 7) | | Chloroethane | | | 0.303 | 0.287 | 0.280 | 0.253 | 0.255 | 0.275 | 7.76 |
| 8) | T | Dichlorotetraf... | | | 1.556 | 1.550 | 1.581 | 1.432 | 1.465 | 1.517 | 4.25 |
| 9) | T | Propene | | | 0.880 | 0.797 | 0.758 | 0.690 | 0.707 | 0.766 | 9.95 |
| 10) | T | Heptane | | | 2.444 | 2.296 | 2.209 | 1.884 | 1.931 | 2.153 | 11.14 |
| 11) | T | Trichlorofluor... | | | 1.684 | 1.806 | 1.746 | 1.567 | 1.597 | 1.680 | 5.95 |
| 12) | T | 1,1,2-Trichlor... | | | 1.389 | 1.439 | 1.437 | 1.281 | 1.323 | 1.374 | 5.11 |
| 13) | | Ethanol | | | 0.275 | 0.139 | 0.123 | 0.035 | 0.036 | 0.122 | 80.54 |
| 14) | T | Bromoethene | | | 0.537 | 0.545 | 0.530 | 0.490 | 0.487 | 0.518 | 5.24 |
| 15) | T | Acetone | | | 1.968 | 1.895 | 1.743 | 1.263 | 1.316 | 1.637 | 20.03 |
| 16) | T | 1,3-Butadiene | | | 1.015 | 0.836 | 0.735 | 0.651 | 0.678 | 0.783 | 18.90 |
| 17) | | tert-Butyl alc... | | | 2.263 | 2.132 | 2.103 | 1.804 | 1.841 | 2.029 | 9.76 |
| 18) | T | 1,1-Dichloroet... | | | 0.735 | 0.635 | 0.637 | 0.583 | 0.618 | 0.642 | 8.79 |
| 19) | T | Isopropyl Alcohol | | | 1.050 | 0.980 | 0.897 | 0.821 | 0.798 | 0.909 | 11.66 |
| 20) | T | Methylene Chlo... | | | 0.875 | 0.728 | 0.582 | 0.498 | 0.523 | 0.641 | 24.71 |
| 21) | T | Allyl Chloride | | | 1.276 | 1.213 | 1.110 | 0.973 | 1.080 | 1.130 | 10.44 |
| 22) | T | trans-1,2-Dich... | | | 0.814 | 0.759 | 0.736 | 0.664 | 0.681 | 0.731 | 8.32 |
| 23) | T | Vinyl Acetate | | | 0.656 | 0.744 | 0.749 | 0.555 | 0.610 | 0.663 | 12.72 |
| 24) | T | 1,1-Dichloroet... | | | 1.452 | 1.469 | 1.383 | 1.284 | 1.352 | 1.388 | 5.43 |
| 25) | T | Ethyl Acetate | | | 4.428 | 4.147 | 4.118 | 3.677 | 3.812 | 4.036 | 7.34 |
| 26) | T | Hexane | | | 1.899 | 1.719 | 1.625 | 1.424 | 1.499 | 1.633 | 11.45 |
| 27) | T | Carbon Disulfide | | | 1.903 | 1.670 | 1.785 | 1.668 | 1.718 | 1.749 | 5.63 |
| 28) | T | Methyl tert-Bu... | | | 1.134 | 1.141 | 1.132 | 0.940 | 1.004 | 1.070 | 8.64 |
| 29) | T | Chloroform | | | 2.458 | 2.333 | 2.392 | 2.145 | 2.215 | 2.309 | 5.54 |
| 30) | T | Cyclohexane | | | 1.422 | 1.333 | 1.347 | 1.252 | 1.249 | 1.320 | 5.50 |
| 31) | T | cis-1,2-Dichlo... | | | 1.588 | 1.603 | 1.593 | 1.459 | 1.522 | 1.553 | 3.95 |
| 32) | T | 1,1,1-Trichlor... | 3.110 | 2.840 | 2.557 | 2.549 | 2.493 | 2.274 | 2.369 | 2.599 | 11.03 |
| 33) | I | 1,4-Difluorobenzene | ----------ISTD---------- | | | | | | | | |
| 34) | T | 2-Butanone | | | 0.886 | 0.826 | 0.818 | 0.687 | 0.737 | 0.791 | 9.94 |
| 35) | T | Carbon Tetrach... | 1.319 | 0.914 | 0.832 | 0.830 | 0.847 | 0.770 | 0.823 | 0.905 | 20.70 |
| 36) | T | Benzene | | | 1.146 | 1.075 | 1.121 | 1.002 | 1.048 | 1.079 | 5.31 |
| 37) | T | 1,2-Dichloroet... | | | 0.691 | 0.647 | 0.666 | 0.592 | 0.641 | 0.647 | 5.63 |
| 38) | T | Trichloroethene | 0.643 | 0.505 | 0.443 | 0.448 | 0.447 | 0.395 | 0.419 | 0.471 | 17.59 |
| 39) | T | 1,2-Dichloropr... | | | 0.441 | 0.413 | 0.405 | 0.370 | 0.381 | 0.402 | 6.97 |

Response Factor Report MSVOA_L

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL041725AIR.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 40) | T | 1,4-Dioxane | | | 0.263 | 0.243 | 0.232 | 0.182 | 0.185 | 0.221 | 16.27 |
| 41) | T | Tetrahydrofuran | | | 0.518 | 0.480 | 0.468 | 0.409 | 0.432 | 0.461 | 9.20 |
| 42) | T | Bromodichlorom... | | | 0.943 | 0.909 | 0.912 | 0.852 | 0.889 | 0.901 | 3.71 |
| 43) | | Methyl Methacr... | | | 0.545 | 0.520 | 0.495 | 0.430 | 0.441 | 0.486 | 10.21 |
| 44) | T | 2,2,4-Trimethy... | | | 1.935 | 1.916 | 1.962 | 1.708 | 1.794 | 1.863 | 5.79 |
| 45) | T | t-1,3-Dichloro... | | | 0.514 | 0.510 | 0.509 | 0.459 | 0.491 | 0.497 | 4.60 |
| 46) | T | cis-1,3-Dichlo... | | | 0.613 | 0.617 | 0.637 | 0.570 | 0.603 | 0.608 | 4.05 |
| 47) | T | 1,1,2-Trichlor... | | | 0.423 | 0.429 | 0.420 | 0.376 | 0.399 | 0.410 | 5.32 |
| 48) | T | Dibromochlorom... | | | 0.743 | 0.721 | 0.746 | 0.679 | 0.729 | 0.723 | 3.70 |
| 49) | T | Bromoform | | | 0.622 | 0.623 | 0.675 | 0.616 | 0.627 | 0.633 | 3.82 |
| 50) | T | 4-Methyl-2-Pen... | | | 1.541 | 1.382 | 1.435 | 1.082 | 1.132 | 1.314 | 15.12 |
| 51) | T | 2-Hexanone | | | 1.341 | 1.311 | 1.411 | 0.893 | 0.938 | 1.179 | 20.69 |
| 52) | T | Tetrachloroethene | 0.543 | 0.452 | 0.420 | 0.393 | 0.391 | 0.357 | 0.363 | 0.417 | 15.46 |
| 53) | T | Toluene | | | 1.371 | 1.295 | 1.370 | 1.193 | 1.244 | 1.294 | 6.03 |
| 54) | T | 1,2-Dibromoethane | | 0.621 | 0.582 | 0.605 | 0.606 | 0.539 | 0.562 | 0.586 | 5.27 |
| 55) | I | Chlorobenzene-d5 | ----------ISTD---------- | | | | | | | | |
| 56) | | 1,1,1,2-Tetrac... | | | 0.621 | 0.640 | 0.635 | 0.550 | 0.581 | 0.605 | 6.37 |
| 57) | T | Chlorobenzene | | | 1.129 | 1.067 | 1.068 | 0.956 | 0.981 | 1.040 | 6.79 |
| 58) | T | Ethyl Benzene | | | 2.029 | 2.088 | 2.068 | 1.832 | 1.890 | 1.981 | 5.73 |
| 59) | T | m/p-Xylene | | | 1.685 | 1.682 | 1.658 | 1.456 | 1.500 | 1.596 | 6.86 |
| 60) | T | o-Xylene | | | 1.740 | 1.697 | 1.668 | 1.442 | 1.490 | 1.607 | 8.25 |
| 61) | T | Styrene | | | 0.792 | 0.776 | 0.808 | 0.726 | 0.734 | 0.767 | 4.68 |
| 62) | | Isopropylbenzene | | | 2.517 | 2.470 | 2.439 | 2.170 | 2.202 | 2.360 | 6.83 |
| 63) | T | 1,1,2,2-Tetrac... | 1.407 | 1.176 | 0.990 | 0.985 | 0.968 | 0.873 | 0.892 | 1.042 | 18.12 |
| 64) | | n-propylbenzene | | | 0.645 | 0.605 | 0.610 | 0.542 | 0.564 | 0.593 | 6.81 |
| 65) | | tert-Butylbenzene | | | 2.319 | 2.358 | 2.315 | 1.907 | 1.945 | 2.169 | 10.27 |
| 66) | T | Benzyl Chloride | | | 0.241 | 0.239 | 0.258 | 0.246 | 0.208 | 0.238 | 7.84 |
| 67) | | sec-Butylbenzene | | | 3.242 | 3.219 | 3.253 | 2.662 | 2.709 | 3.017 | 10.05 |
| 68) | S | 1-Bromo-4-Fluo... | 0.819 | 0.814 | 0.824 | 0.818 | 0.822 | 0.831 | 0.825 | 0.822 | 0.69 |
| 69) | | p-Isopropyltol... | | | 2.834 | 2.818 | 2.811 | 2.304 | 2.338 | 2.621 | 10.46 |
| 70) | | n-Butylbenzene | | | 2.985 | 2.926 | 2.953 | 2.370 | 2.414 | 2.730 | 11.33 |
| 71) | | 2-Chlorotoluene | | | 1.972 | 1.924 | 1.920 | 1.695 | 1.744 | 1.851 | 6.65 |
| 72) | T | 4-Ethyltoluene | | | 2.055 | 2.118 | 2.054 | 1.765 | 1.833 | 1.965 | 7.92 |
| 73) | T | 1,3,5-Trimethy... | | | 1.894 | 1.851 | 1.841 | 1.517 | 1.570 | 1.735 | 10.19 |
| 74) | T | 1,2,4-Trimethy... | | | 2.348 | 2.245 | 2.168 | 1.671 | 1.698 | 2.026 | 15.71 |
| 75) | T | 1,3-Dichlorobe... | | | 1.119 | 1.121 | 1.119 | 0.948 | 0.960 | 1.053 | 8.64 |
| 76) | T | 1,4-Dichlorobe... | | | 1.138 | 1.115 | 1.122 | 0.944 | 0.974 | 1.059 | 8.69 |
| 77) | T | 1,2-Dichlorobe... | | | 1.085 | 1.093 | 1.114 | 0.904 | 0.924 | 1.024 | 9.88 |
| 78) | T | Hexachloro-1,3... | | | 1.163 | 1.136 | 1.135 | 0.863 | 0.874 | 1.034 | 14.66 |
| 79) | T | Naphthalene | | 2.433 | 2.395 | 2.756 | 2.909 | 2.004 | 2.040 | 2.423 | 15.11 |
| 80) | T | Naphthalene,2-... | | | 1.311 | 1.534 | 1.777 | 1.115 | 1.168 | 1.381 | 19.88 |
| 81) | T | 1,2,4-Trichlor... | | | 1.026 | 1.117 | 1.224 | 0.905 | 0.929 | 1.040 | 12.75 |

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042349.D
Acq On : 17 Apr 2025 09:44
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 18 01:25:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Bromochloromethane | 2.787 | 49 | 125455 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.959 | 114 | 366544 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.882 | 117 | 338126 | 10.000 | ppbv | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95 | 281013 | 10.114 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 101.100% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.499 | 85 | 207962 | 9.382 | ppbv | 100 |
| 3) Chlorodifluoromethane | 1.476 | 51 | 197334 | 9.350 | ppbv | 100 |
| 4) Chloromethane | 1.531 | 50 | 81843 | 9.330 | ppbv | 100 |
| 5) Vinyl Chloride | 1.580 | 62 | 80068 | 8.385 | ppbv | 100 |
| 6) Bromomethane | 1.667 | 94 | 38128 | 9.219 | ppbv | 100 |
| 7) Chloroethane | 1.703 | 64 | 31705 | 9.182 | ppbv | 100 |
| 8) Dichlorotetrafluoroethane | 1.554 | 85 | 179696 | 9.442 | ppbv | 100 |
| 9) Propene | 1.483 | 41 | 86530 | 9.002 | ppbv | 100 |
| 10) Heptane | 4.978 | 43 | 236341 | 9.138 | ppbv | 100 |
| 11) Trichlorofluoromethane | 1.877 | 101 | 196596 | 9.327 | ppbv | 100 |
| 12) 1,1,2-Trichlorotrifluo... | 2.136 | 101 | 160682 | 9.323 | ppbv | 100 |
| 13) Ethanol | 1.719 | 45 | 4439 | 5.651 | ppbv | 100 |
| 14) Bromoethene | 1.780 | 108 | 61493 | 9.466 | ppbv | 100 |
| 15) Acetone | 1.835 | 43 | 158490 | 7.717 | ppbv | 100 |
| 16) 1,3-Butadiene | 1.609 | 39 | 81688 | 8.470 | ppbv | 100 |
| 17) tert-Butyl alcohol | 2.039 | 59 | 226280 | 8.891 | ppbv | 100 |
| 18) 1,1-Dichloroethene | 2.033 | 96 | 73186 | 8.833 | ppbv | 100 |
| 19) Isopropyl Alcohol | 1.884 | 45 | 103029 | 9.031 | ppbv | 100 |
| 20) Methylene Chloride | 2.062 | 84 | 62414 | 7.760 | ppbv | 100 |
| 21) Allyl Chloride | 2.094 | 41 | 122115 | 8.611 | ppbv | 100 |
| 22) trans-1,2-Dichloroethene | 2.340 | 96 | 83278 | 9.084 | ppbv | 100 |
| 23) Vinyl Acetate | 2.460 | 43 | 69649 | 8.378 | ppbv | 100 |
| 24) 1,1-Dichloroethane | 2.408 | 63 | 161102 | 9.251 | ppbv | 100 |
| 25) Ethyl Acetate | 2.836 | 43 | 461315 | 9.110 | ppbv | 100 |
| 26) Hexane | 2.826 | 57 | 178691 | 8.720 | ppbv | 100 |
| 27) Carbon Disulfide | 2.149 | 76 | 209297 | 9.539 | ppbv | 100 |
| 28) Methyl tert-Butyl Ether | 2.441 | 73 | 117924 | 8.783 | ppbv | 100 |
| 29) Chloroform | 2.848 | 83 | 269088 | 9.290 | ppbv | 100 |
| 30) Cyclohexane | 3.855 | 84 | 157035 | 9.517 | ppbv | 100 |
| 31) cis-1,2-Dichloroethene | 2.719 | 61 | 183082 | 9.397 | ppbv | 100 |
| 32) 1,1,1-Trichloroethane | 3.366 | 97 | 285336 | 9.187 | ppbv | 100 |
| 34) 2-Butanone | 2.557 | 43 | 251704 | 8.683 | ppbv | 100 |
| 35) Carbon Tetrachloride | 3.761 | 117 | 282402 | 8.513 | ppbv | 100 |
| 36) Benzene | 3.654 | 78 | 367355 | 9.292 | ppbv | 100 |
| 37) 1,2-Dichloroethane | 3.217 | 62 | 216999 | 9.145 | ppbv | 100 |
| 38) Trichloroethene | 4.548 | 130 | 144767 | 8.352 | ppbv | 100 |
| 39) 1,2-Dichloropropane | 4.311 | 63 | 135605 | 9.197 | ppbv | 100 |
| 40) 1,4-Dioxane | 4.580 | 88 | 66662 | 8.348 | ppbv # | 100 |
| 41) Tetrahydrofuran | 3.052 | 42 | 149905 | 8.950 | ppbv | 100 |
| 42) Bromodichloromethane | 4.489 | 83 | 312268 | 9.456 | ppbv | 100 |
| 43) Methyl Methacrylate | 4.881 | 69 | 157501 | 8.876 | ppbv | 100 |
| 44) 2,2,4-Trimethylpentane | 4.642 | 57 | 626085 | 9.157 | ppbv | 100 |
| 45) t-1,3-Dichloropropene | 6.415 | 75 | 168223 | 9.233 | ppbv | 100 |

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042349.D
Acq On : 17 Apr 2025 09:44
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 18 01:25:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.600 | 75 | 208811 | 9.377 | ppbv | 100 |
| 47) 1,1,2-Trichloroethane | 6.580 | 97 | 137898 | 9.181 | ppbv | 100 |
| 48) Dibromochloromethane | 7.386 | 129 | 248954 | 9.388 | ppbv | 100 |
| 49) Bromoform | 9.480 | 173 | 225706 | 9.734 | ppbv | 100 |
| 50) 4-Methyl-2-Pentanone | 5.752 | 43 | 396548 | 8.215 | ppbv | 100 |
| 51) 2-Hexanone | 7.435 | 43 | 327165 | 7.511 | ppbv | 100 |
| 52) Tetrachloroethene | 8.225 | 164 | 130720 | 8.553 | ppbv | 100 |
| 53) Toluene | 6.933 | 91 | 437258 | 9.216 | ppbv | 100 |
| 54) 1,2-Dibromoethane | 7.652 | 107 | 197665 | 9.235 | ppbv | 100 |
| 56) 1,1,1,2-Tetrachloroethane | 8.927 | 131 | 186041 | 9.091 | ppbv | 100 |
| 57) Chlorobenzene | 8.920 | 112 | 323084 | 9.187 | ppbv | 100 |
| 58) Ethyl Benzene | 9.354 | 91 | 619581 | 9.248 | ppbv | 100 |
| 59) m/p-Xylene | 9.552 | 91 | 984458m | 18.187 | ppbv | |
| 60) o-Xylene | 9.963 | 91 | 487616 | 8.972 | ppbv | 100 |
| 61) Styrene | 9.869 | 104 | 245487 | 9.464 | ppbv | 100 |
| 62) Isopropylbenzene | 10.539 | 105 | 733788 | 9.197 | ppbv | 100 |
| 63) 1,1,2,2-Tetrachloroethane | 9.963 | 83 | 295041 | 8.355 | ppbv | 100 |
| 64) n-propylbenzene | 10.989 | 120 | 183390 | 9.144 | ppbv | 100 |
| 65) tert-Butylbenzene | 11.532 | 119 | 644953 | 8.795 | ppbv | 100 |
| 66) Benzyl Chloride | 11.617 | 91 | 83269 | 10.333 | ppbv | 100 |
| 67) sec-Butylbenzene | 11.769 | 105 | 900074 | 8.824 | ppbv | 100 |
| 69) p-Isopropyltoluene | 11.927 | 119 | 778987 | 8.790 | ppbv | 100 |
| 70) n-Butylbenzene | 12.283 | 91 | 801364 | 8.682 | ppbv | 100 |
| 71) 2-Chlorotoluene | 10.901 | 91 | 573039 | 9.157 | ppbv | 100 |
| 72) 4-Ethyltoluene | 11.125 | 105 | 596757 | 8.982 | ppbv | 100 |
| 73) 1,3,5-Trimethylbenzene | 11.205 | 105 | 512855 | 8.743 | ppbv | 100 |
| 74) 1,2,4-Trimethylbenzene | 11.539 | 105 | 565064 | 8.248 | ppbv | 100 |
| 75) 1,3-Dichlorobenzene | 11.607 | 146 | 320380 | 8.997 | ppbv | 100 |
| 76) 1,4-Dichlorobenzene | 11.672 | 146 | 319089 | 8.915 | ppbv | 100 |
| 77) 1,2-Dichlorobenzene | 11.947 | 146 | 305822 | 8.832 | ppbv | 100 |
| 78) Hexachloro-1,3-Butadiene | 13.882 | 225 | 291833 | 8.346 | ppbv | 100 |
| 79) Naphthalene | 13.513 | 128 | 677578 | 8.271 | ppbv | 100 |
| 80) Naphthalene,2-methyl- | 14.458 | 142 | 376995 | 8.074 | ppbv | 100 |
| 81) 1,2,4-Trichlorobenzene | 13.442 | 180 | 306119 | 8.702 | ppbv | 100 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

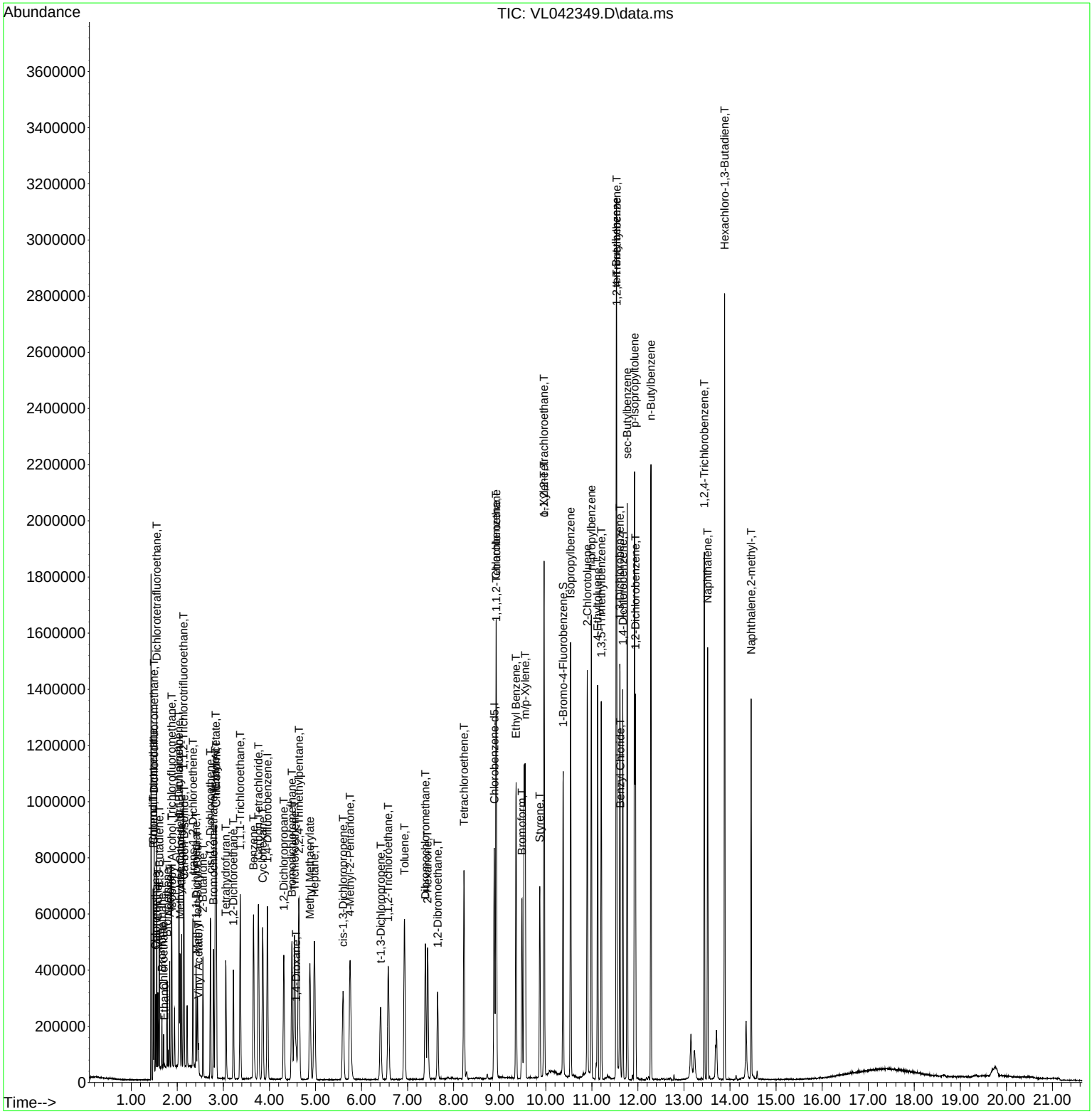
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042349.D
Acq On : 17 Apr 2025 09:44
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

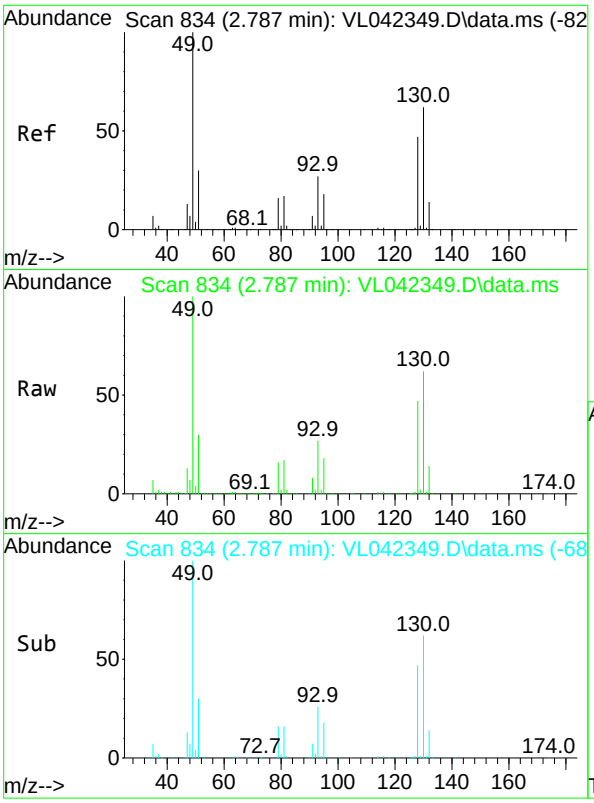
Quant Time: Apr 18 01:25:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

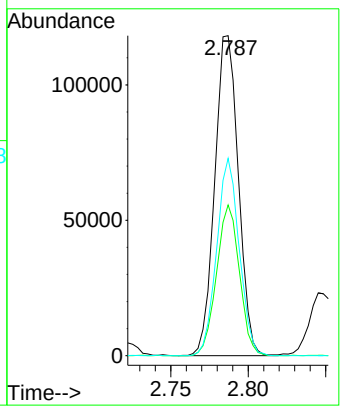





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 49 Resp: 12545

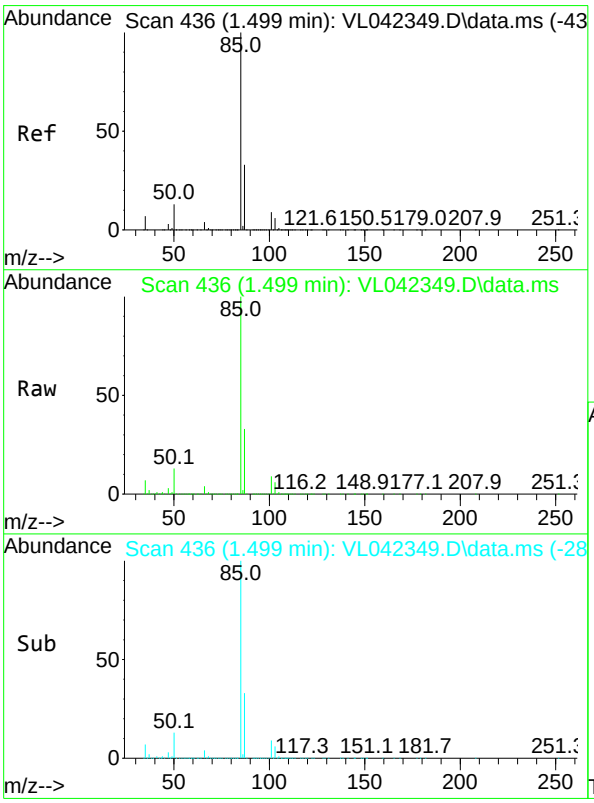
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 45.6 | 22.8 | 68.4 |
| 130 | 58.7 | 29.3 | 88.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

**Manual Integrations**
**APPROVED**

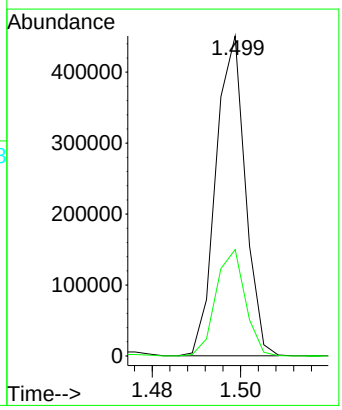
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

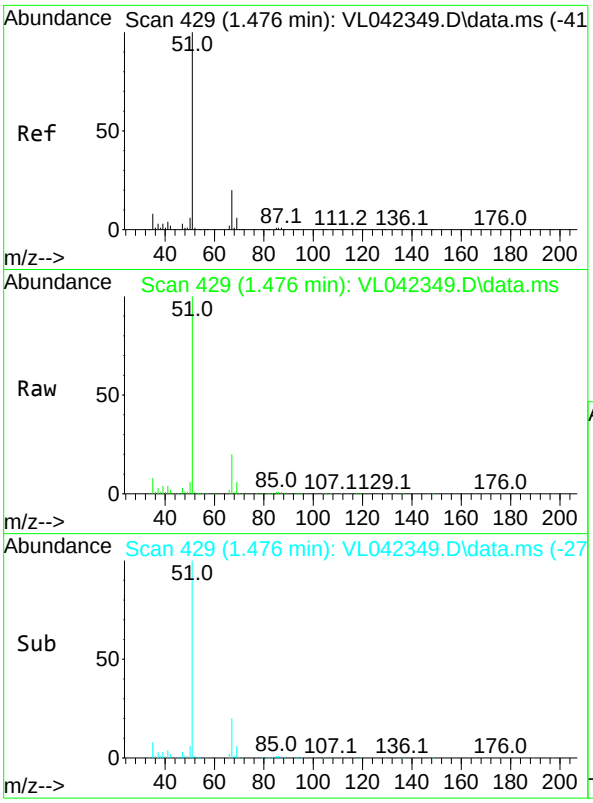



#2
Dichlorodifluoromethane
Concen: 9.382 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 85 Resp: 207962

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.2 | 26.6 | 39.8 |

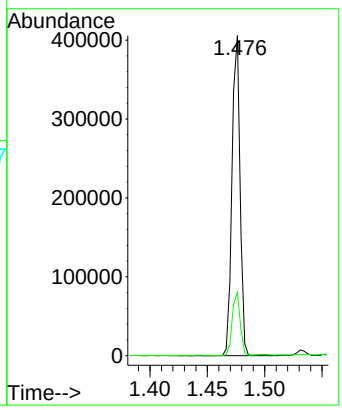





#3
Chlorodifluoromethane
Concen: 9.350 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 51 Resp: 19733

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 20.3 | 16.2 | 24.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/18/2025
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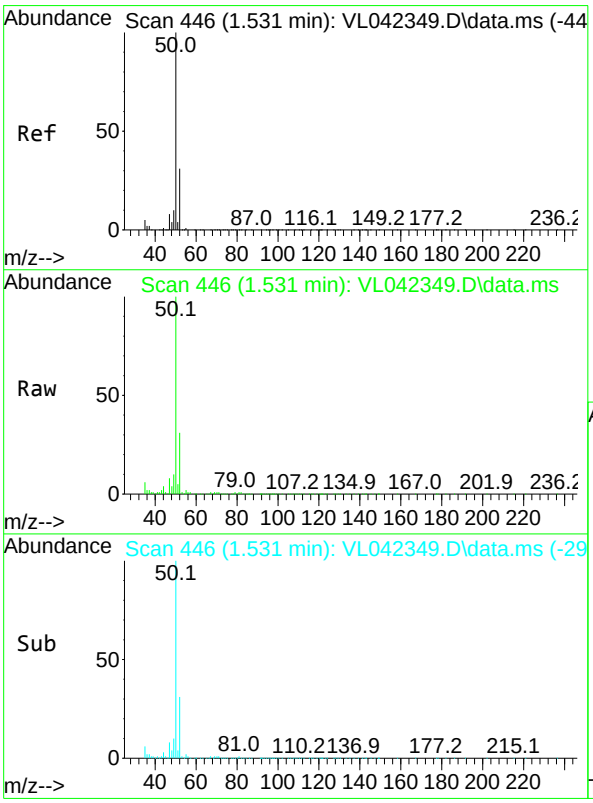
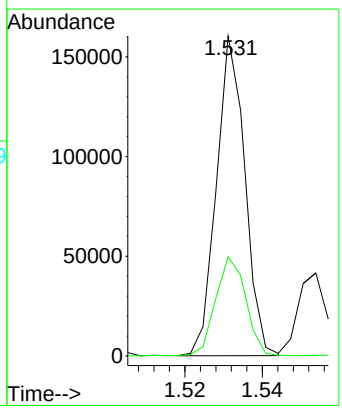
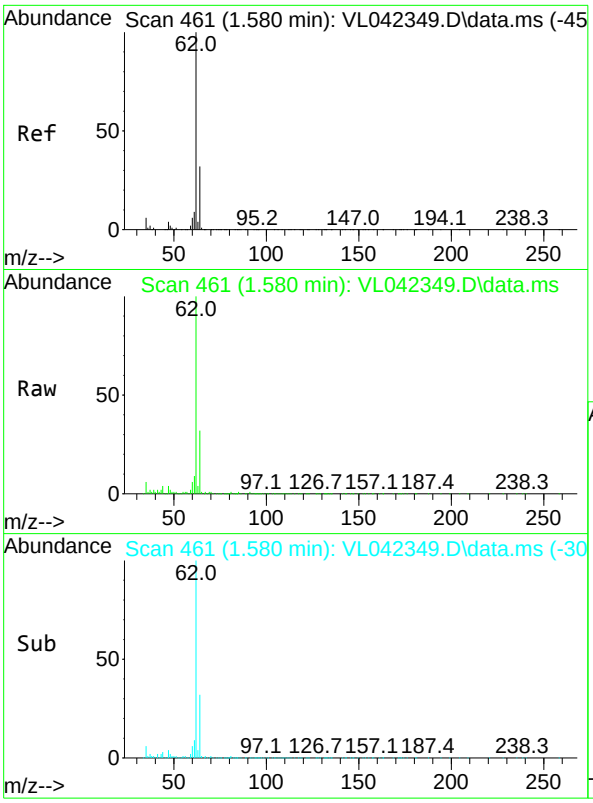



#4
Chloromethane
Concen: 9.330 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 50 Resp: 81843

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 30.9 | 24.7 | 37.1 |

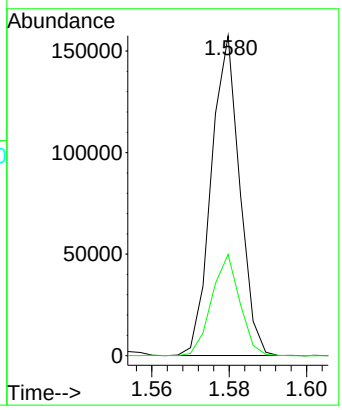





#5
Vinyl Chloride
Concen: 8.385 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 62 Resp: 8006

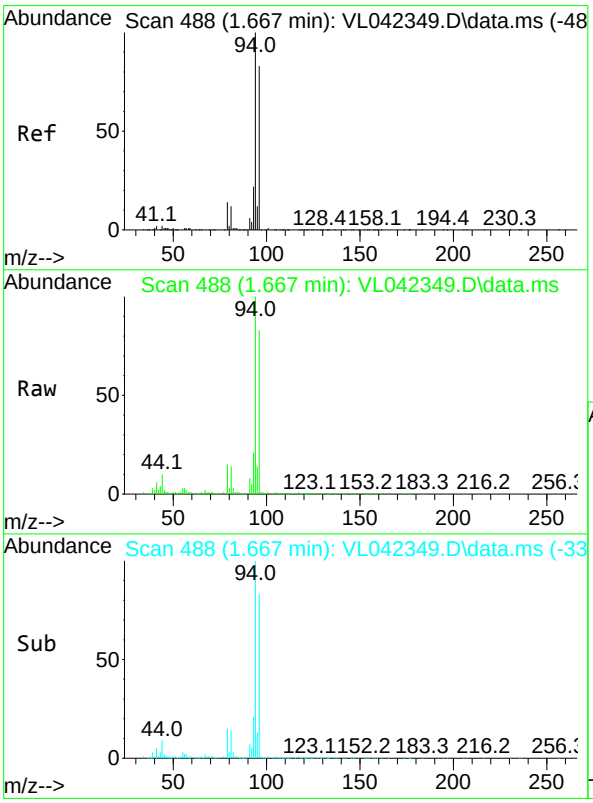
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.7 | 25.4 | 38.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

**Manual Integrations**
**APPROVED**

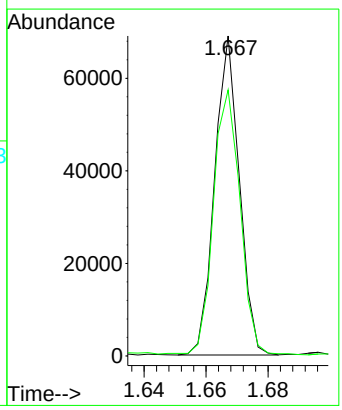
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

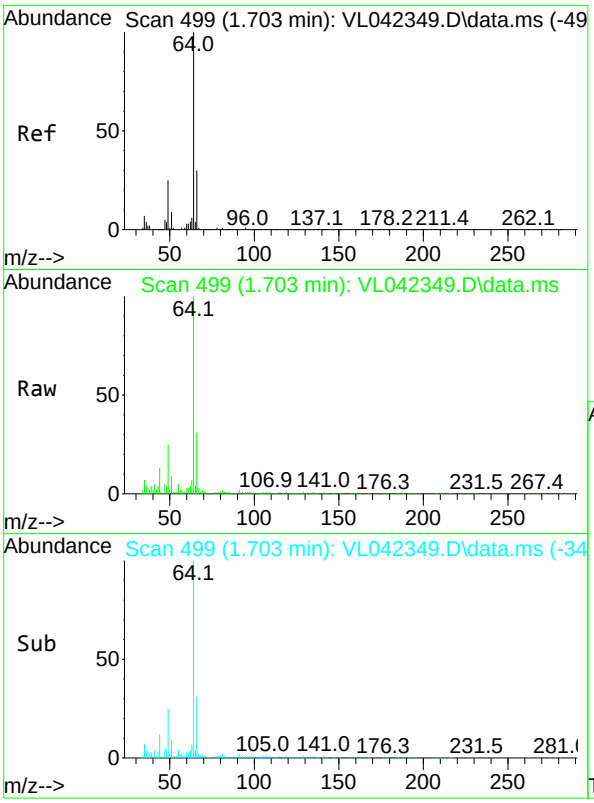



#6
Bromomethane
Concen: 9.219 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 94 Resp: 38128

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 82.7 | 66.2 | 99.2 |

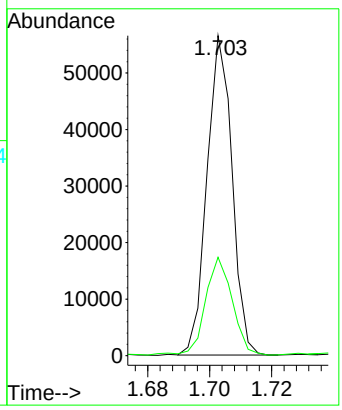





#7
Chloroethane
Concen: 9.182 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 64 Resp: 3170

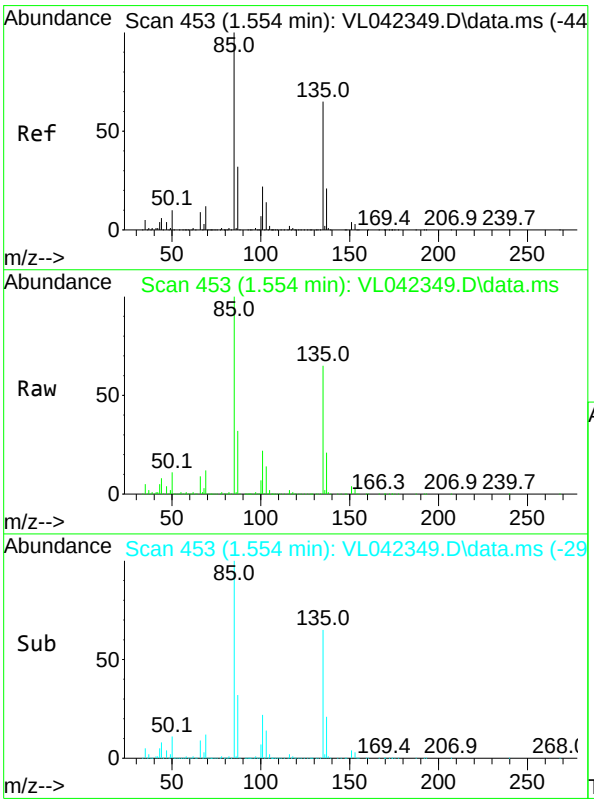
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 30.8 | 24.6 | 37.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

**Manual Integrations**
**APPROVED**

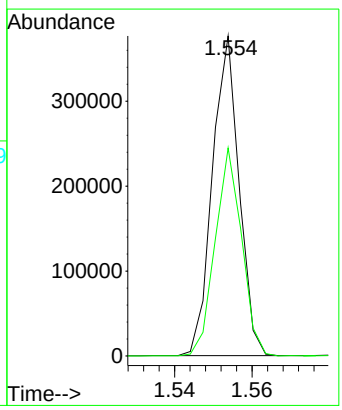
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

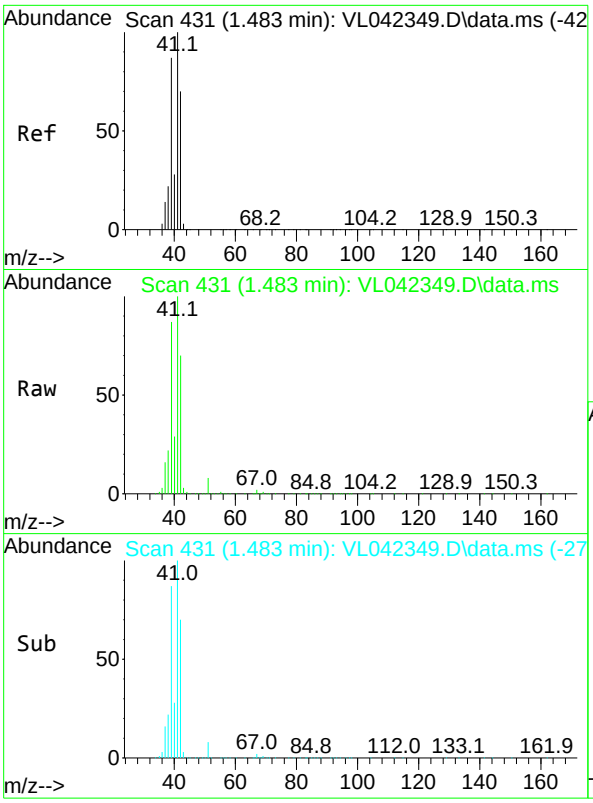



#8
Dichlorotetrafluoroethane
Concen: 9.442 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 85 Resp: 179696

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 65.2 | 52.2 | 78.2 |

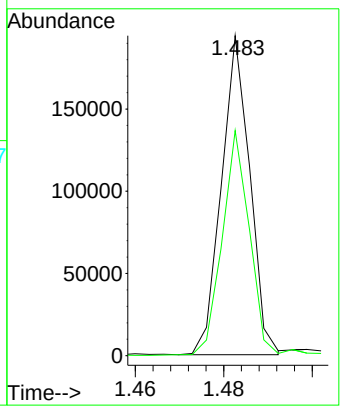





#9
Propene
Concen: 9.002 ppbv
RT: 1.483 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 41 Resp: 8653

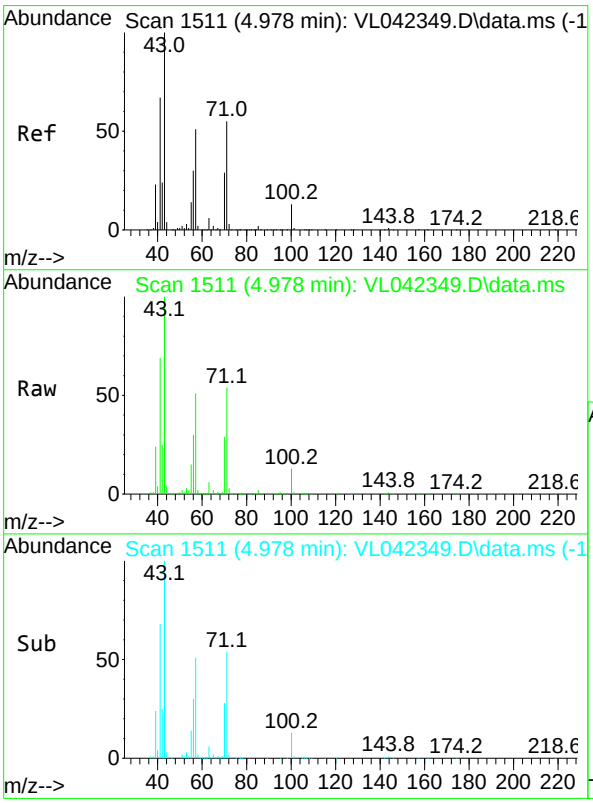
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 70.3 | 56.2 | 84.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

**Manual Integrations**
**APPROVED**

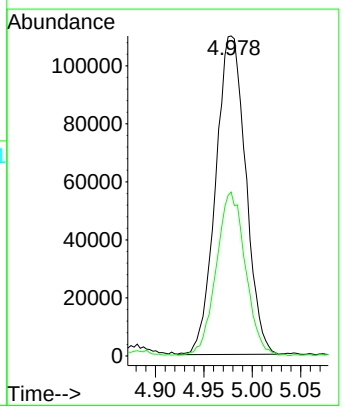
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

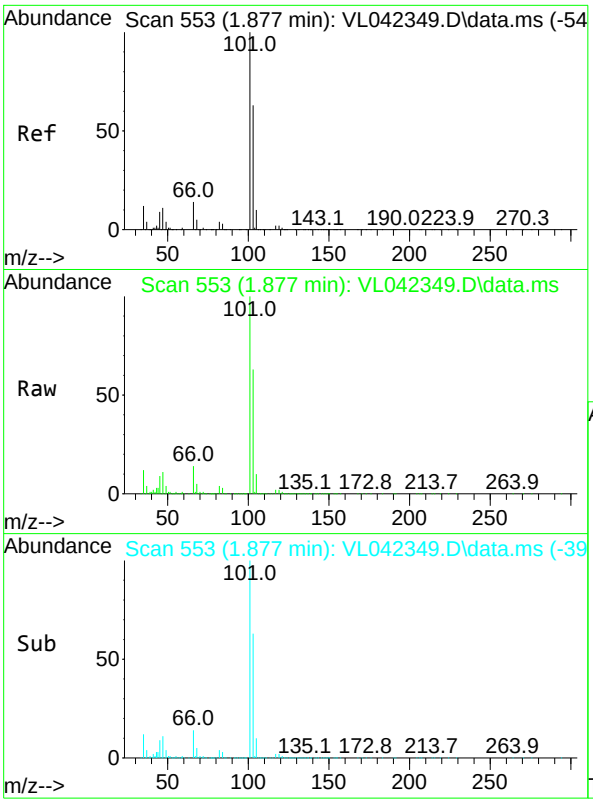



#10
Heptane
Concen: 9.138 ppbv
RT: 4.978 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 43 Resp: 236341

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 49.9 | 39.9 | 59.9 |

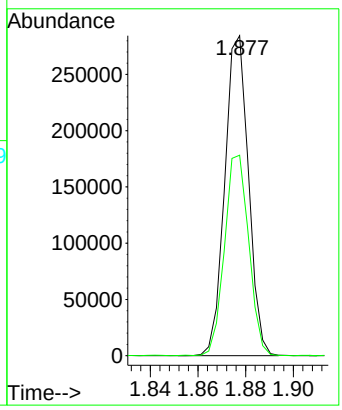





#11
Trichlorofluoromethane
Concen: 9.327 ppbv
RT: 1.877 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:101 Resp: 19659

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 62.6 | 50.1 | 75.1 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/18/2025
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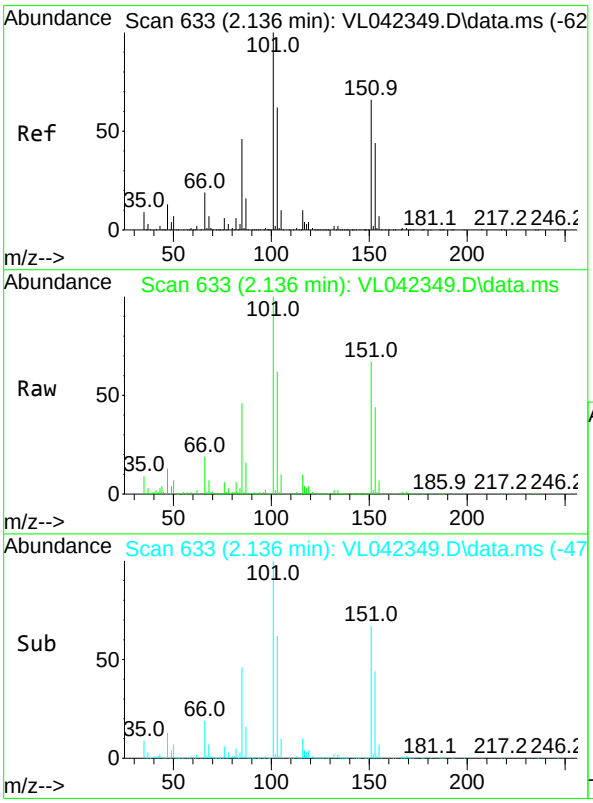
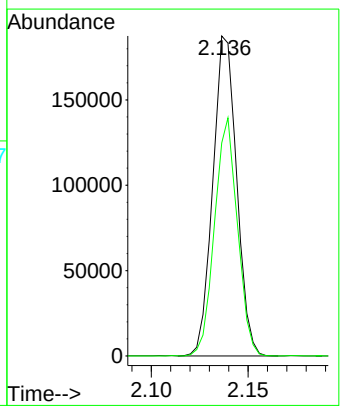
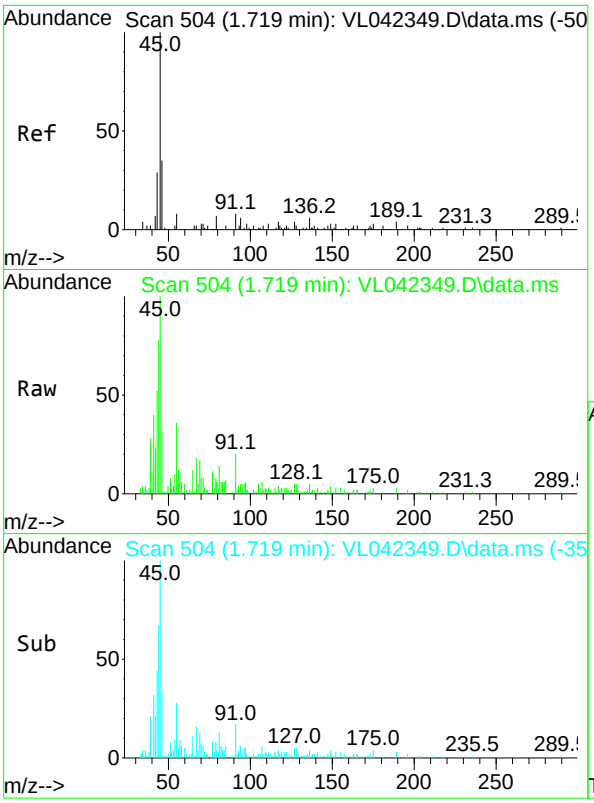



#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.323 ppbv
RT: 2.136 min Scan# 633
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:101 Resp: 160682

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 71.3 | 57.0 | 85.6 |

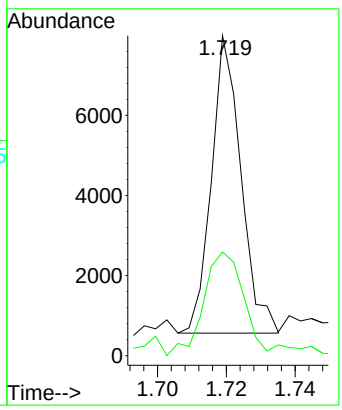





#13
Ethanol
Concen: 5.651 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 45 Resp: 443

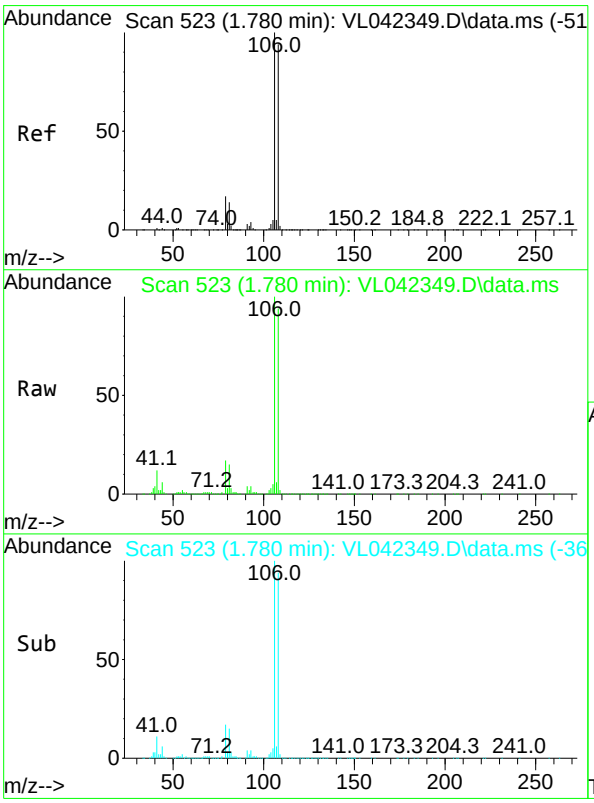
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 54.8 | 21.9 | 87.7 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

**Manual Integrations**
**APPROVED**

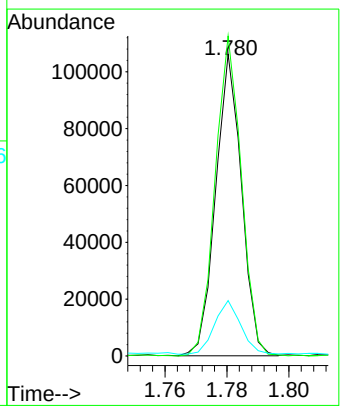
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

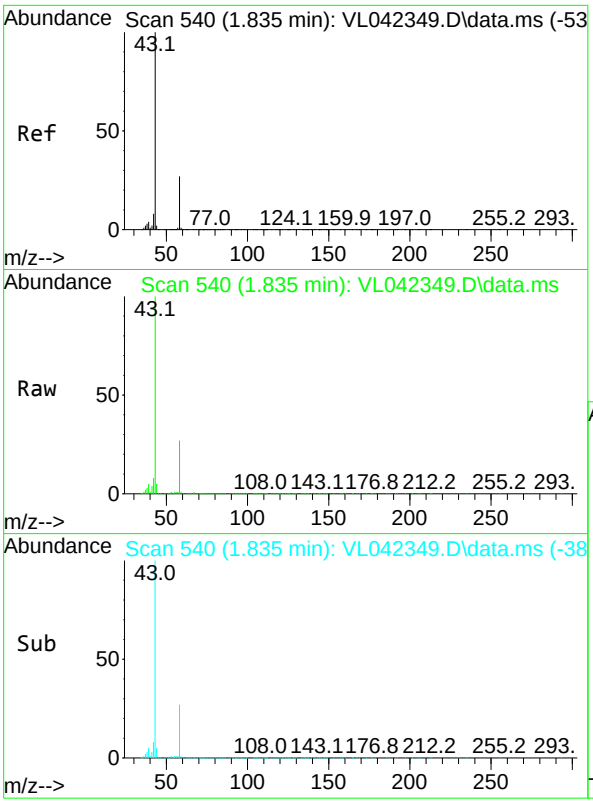



#14
Bromoethene
Concen: 9.466 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:108 Resp: 61493

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 106 | 107.4 | 85.9 | 128.9 |
| 79 | 17.4 | 13.9 | 20.9 |

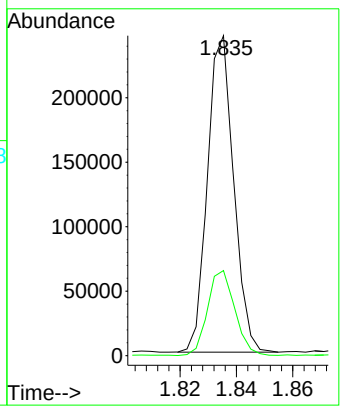





#15
Acetone
Concen: 7.717 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 43 Resp: 15849

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 28.0 | 22.4 | 33.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

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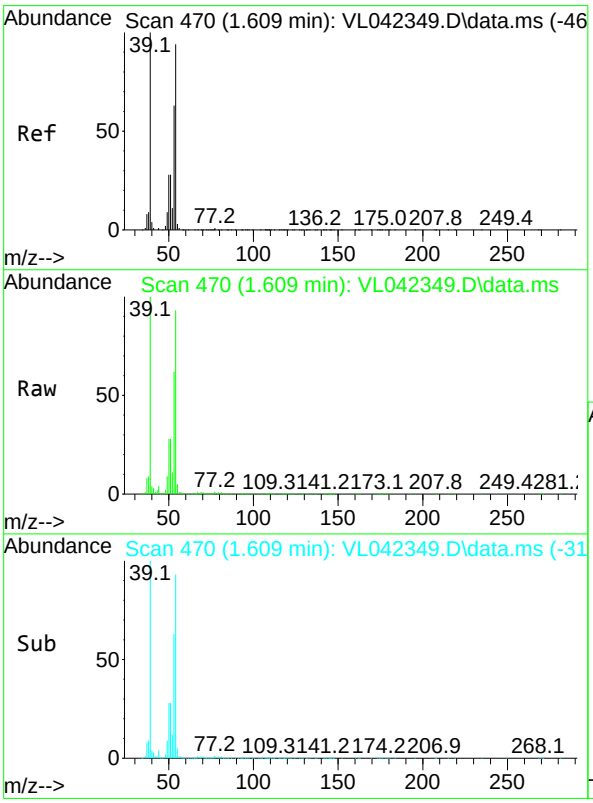
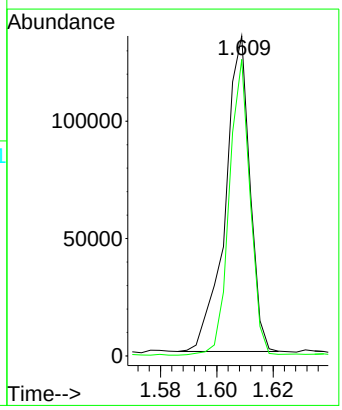
Supervised By :Mahesh Dadoda 04/18/2025

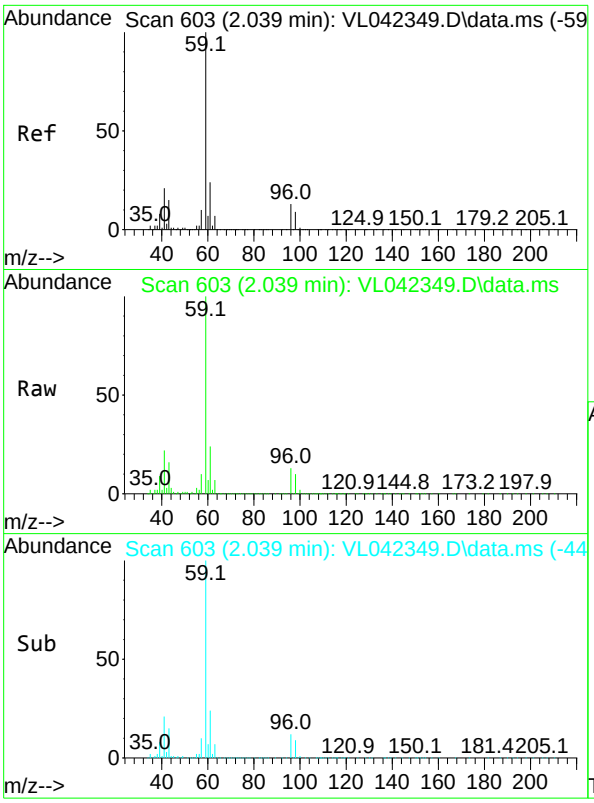



#16
1,3-Butadiene
Concen: 8.470 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 39 Resp: 81688

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 81.1 | 64.9 | 97.3 |

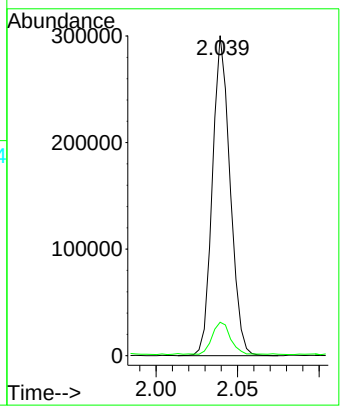





#17
tert-Butyl alcohol
Concen: 8.891 ppbv
RT: 2.039 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 59 Resp: 22628

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.9 | 8.7 | 13.1 |

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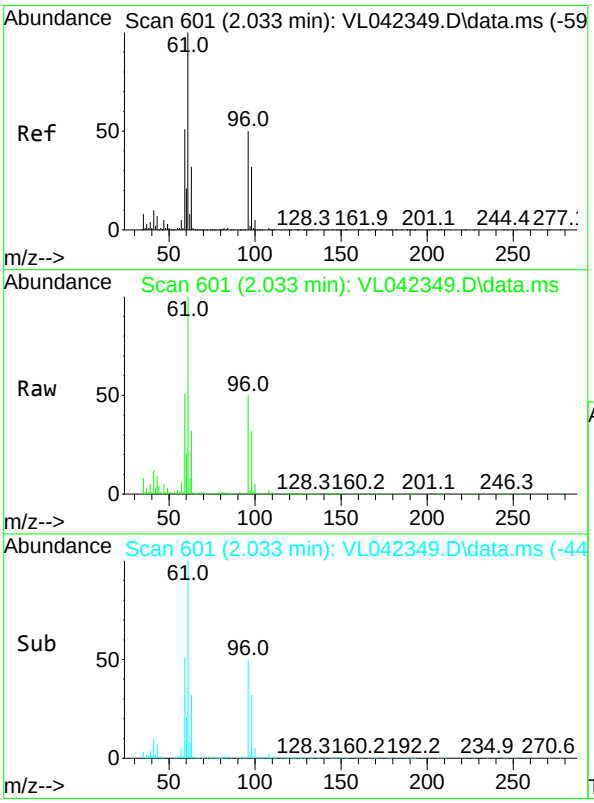
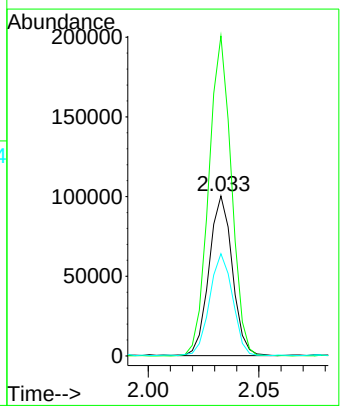
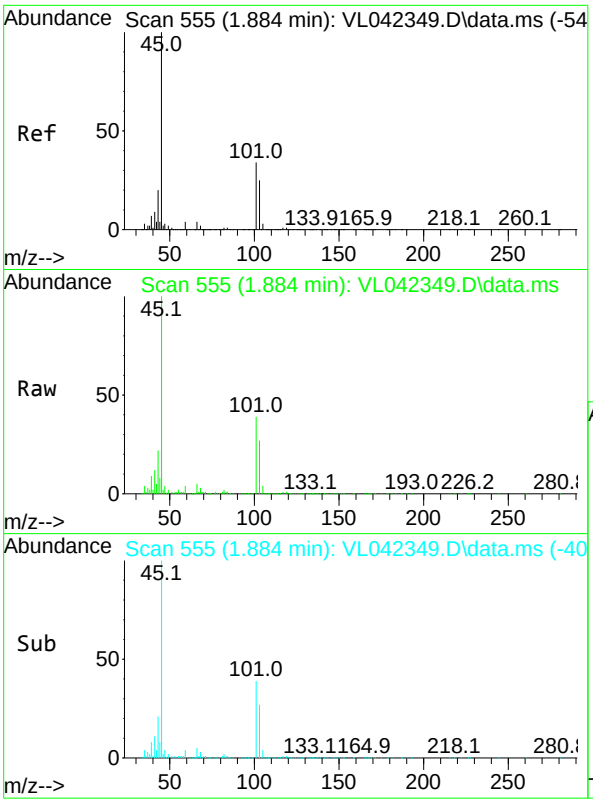



#18
1,1-Dichloroethene
Concen: 8.833 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 96 Resp: 73186

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 200.2 | 160.2 | 240.2 |
| 98 | 63.7 | 51.0 | 76.4 |

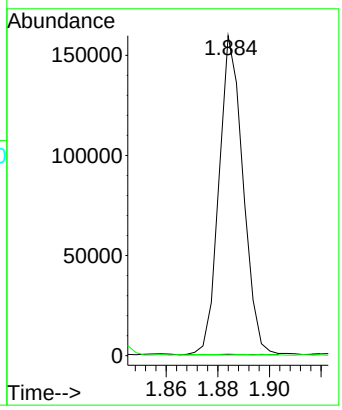





#19
Isopropyl Alcohol
Concen: 9.031 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 45 Resp: 10302

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 43.1 | 34.5 | 51.7 |

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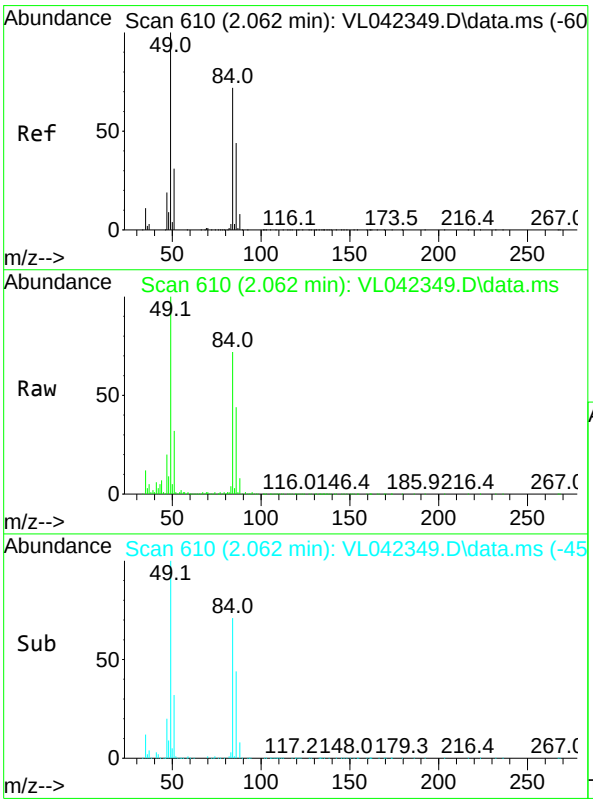
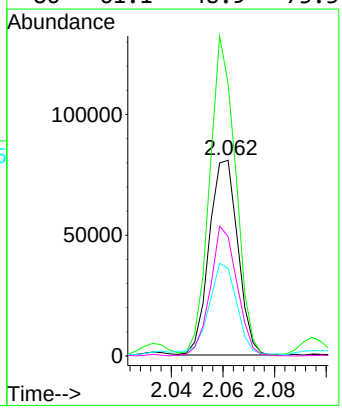
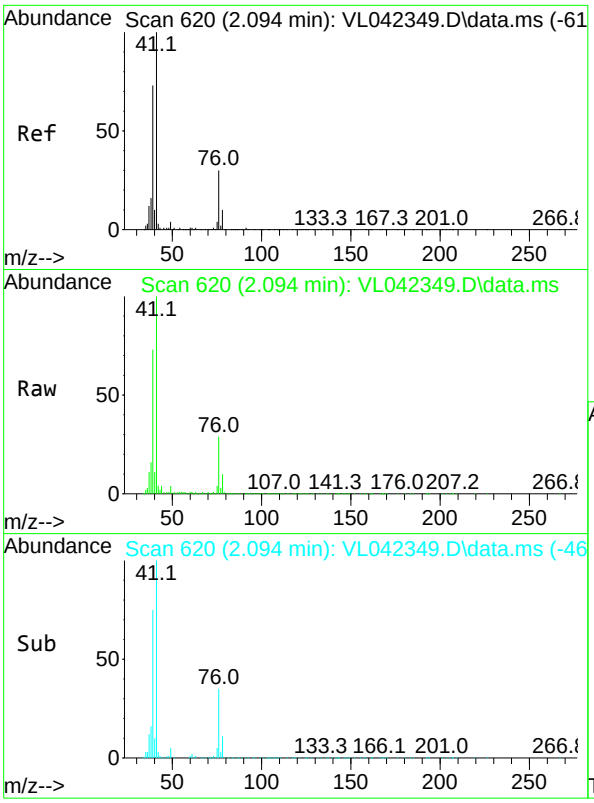



#20
Methylene Chloride
Concen: 7.760 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 84 Resp: 62414

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 139.5 | 111.6 | 167.4 |
| 51 | 43.9 | 35.1 | 52.7 |
| 86 | 61.1 | 48.9 | 73.3 |

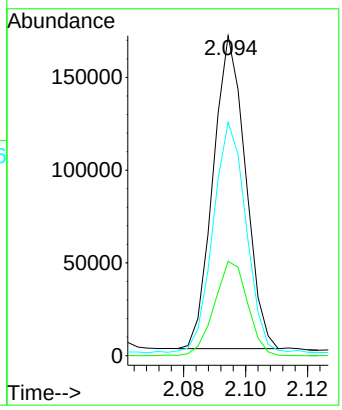





#21
Allyl Chloride
Concen: 8.611 ppbv
RT: 2.094 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 41 Resp: 12211

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 31.0 | 24.8 | 37.2 |
| 39 | 75.7 | 60.6 | 90.8 |

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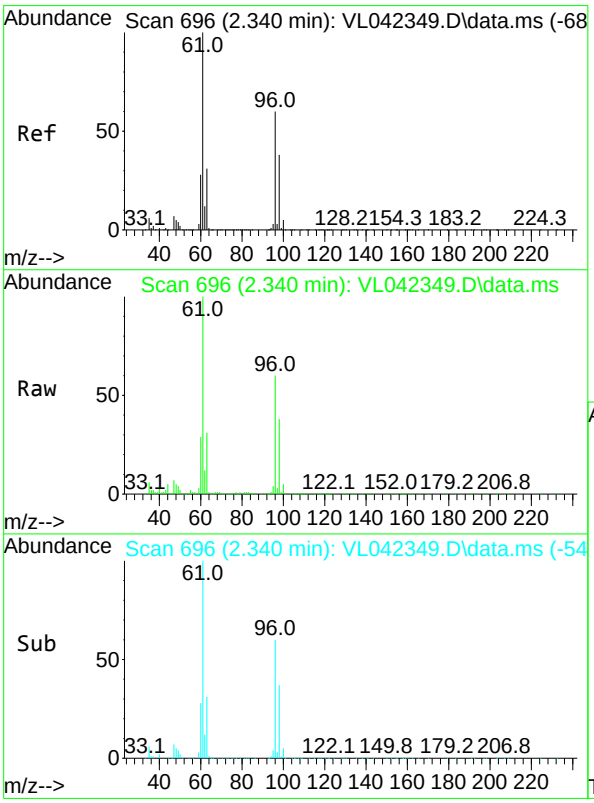
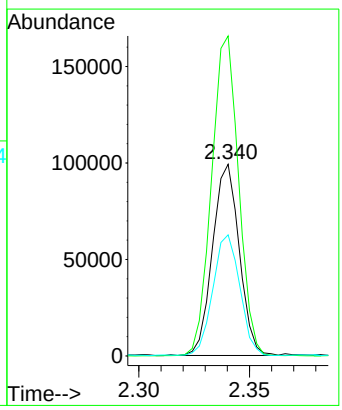
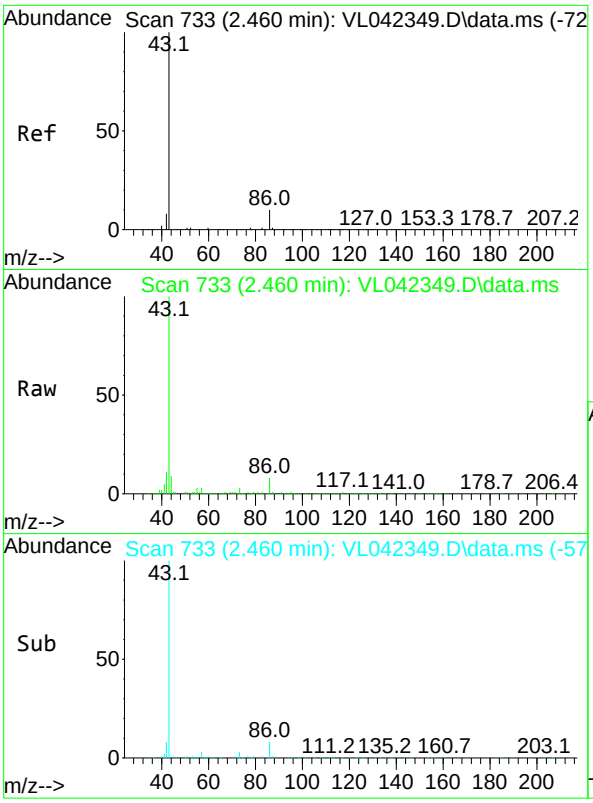



#22
trans-1,2-Dichloroethene
Concen: 9.084 ppbv
RT: 2.340 min Scan# 696
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 96 Resp: 83278

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 167.1 | 133.7 | 200.5 |
| 98 | 62.9 | 50.3 | 75.5 |

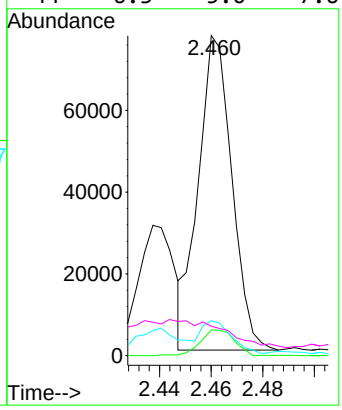





#23
Vinyl Acetate
Concen: 8.378 ppbv
RT: 2.460 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 43 Resp: 6964

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 8.1 | 6.5 | 9.7 |
| 42 | 9.8 | 7.8 | 11.8 |
| 44 | 6.3 | 5.0 | 7.6 |

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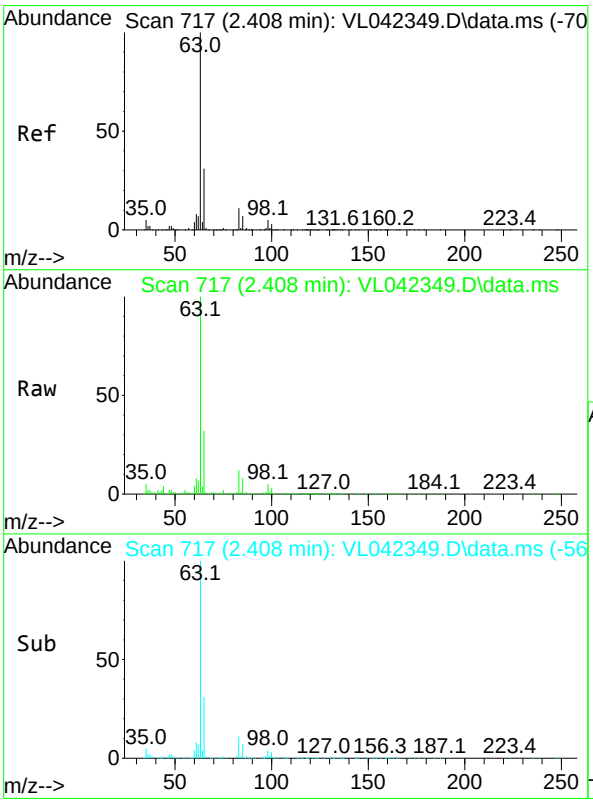
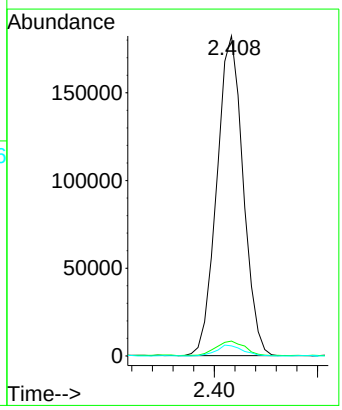
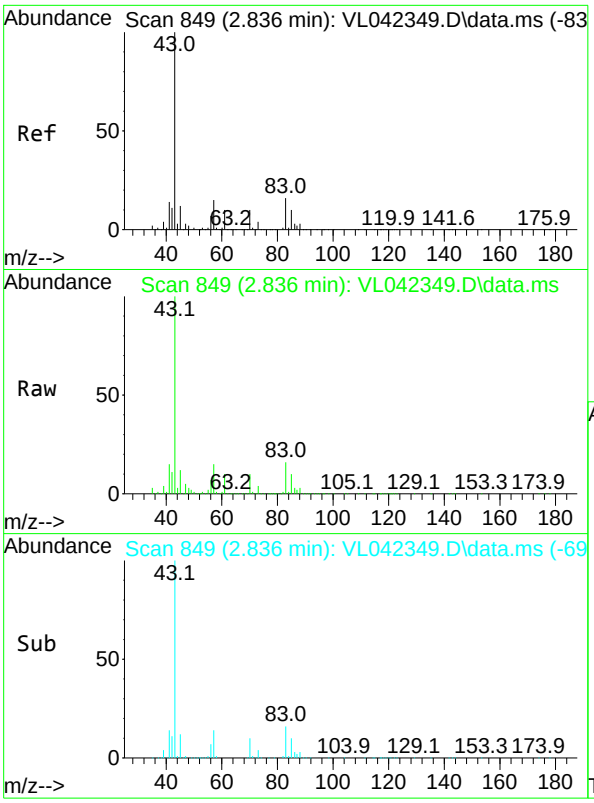



#24
1,1-Dichloroethane
Concen: 9.251 ppbv
RT: 2.408 min Scan# 717
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 63 Resp: 161102

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 4.5 | 2.3 | 6.8 |
| 100 | 3.2 | 1.6 | 4.8 |

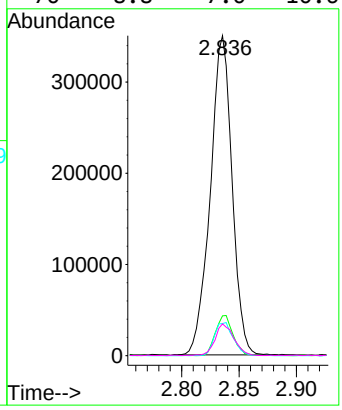





#25
Ethyl Acetate
Concen: 9.110 ppbv
RT: 2.836 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 43 Resp: 46131

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 10.4 | 8.3 | 12.5 |
| 61 | 9.1 | 7.3 | 10.9 |
| 70 | 8.8 | 7.0 | 10.6 |

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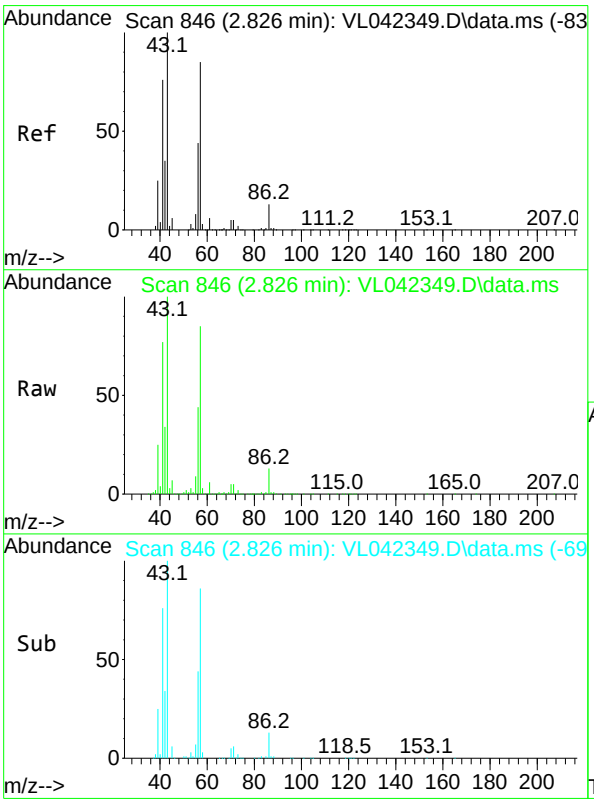
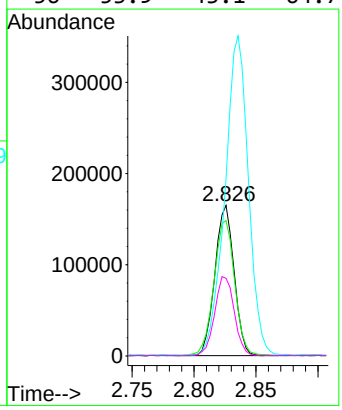
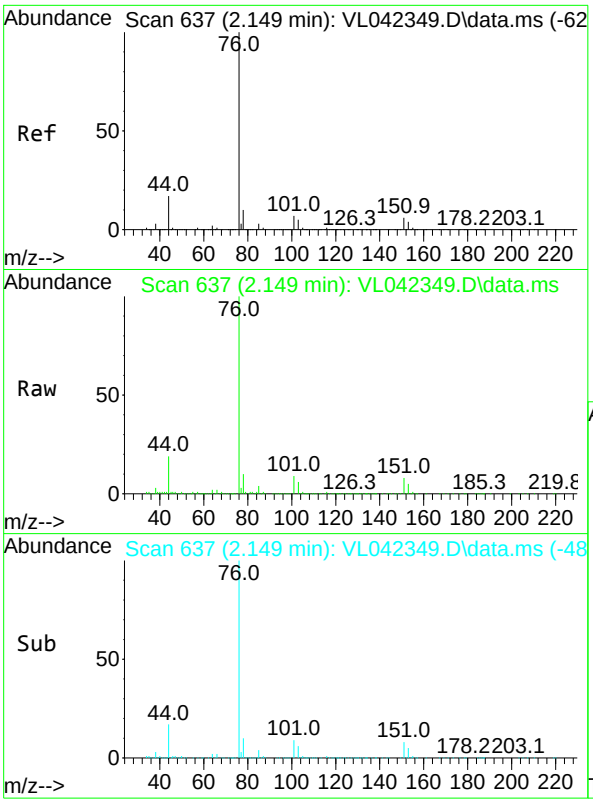



#26
Hexane
Concen: 8.720 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 57 Resp: 178691

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 97.4 | 77.9 | 116.9 |
| 43 | 260.5 | 208.4 | 312.6 |
| 56 | 53.9 | 43.1 | 64.7 |

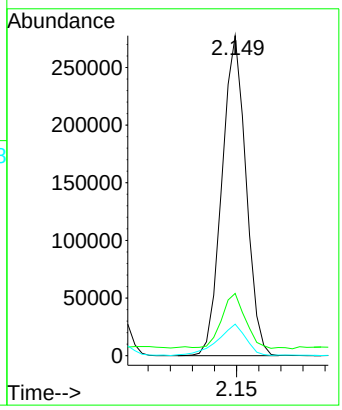





#27
Carbon Disulfide
Concen: 9.539 ppbv
RT: 2.149 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 76 Resp: 20929

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 19.4 | 15.5 | 23.3 |
| 78 | 11.6 | 9.3 | 13.9 |

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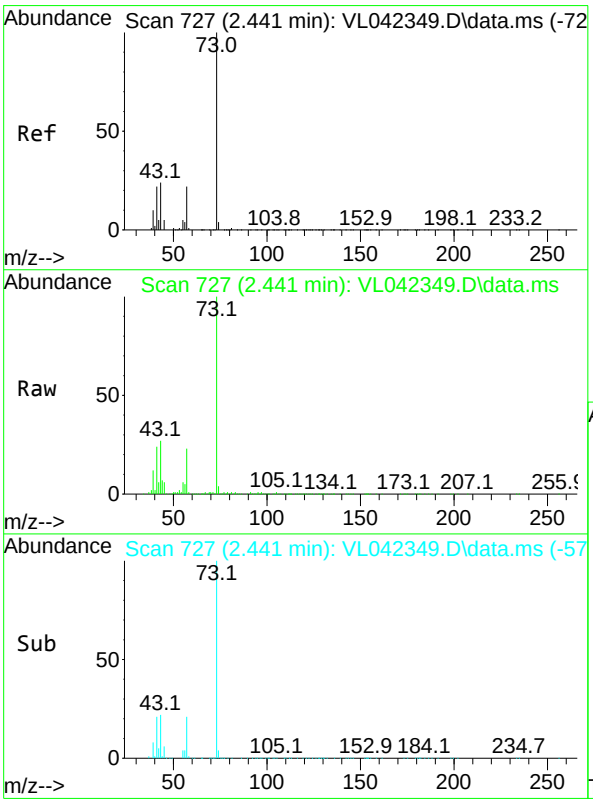
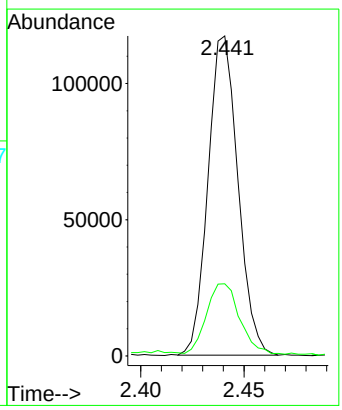
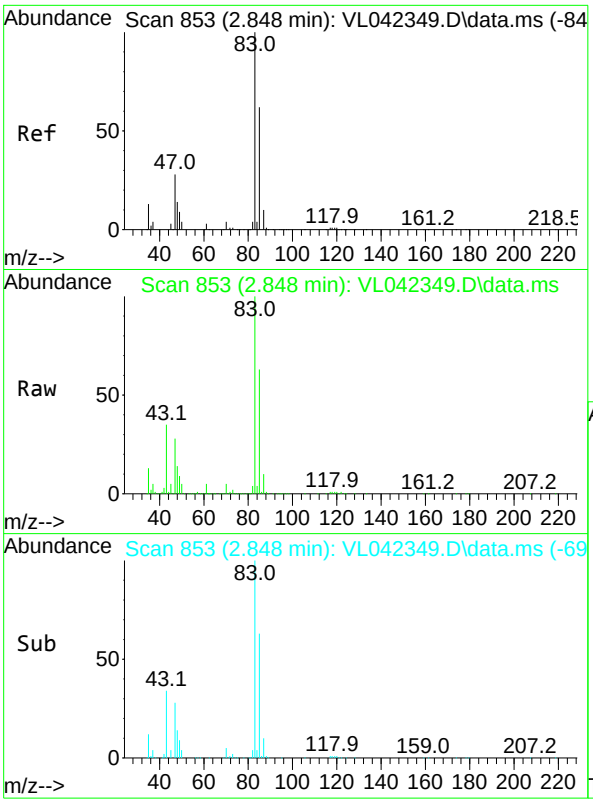



#28
Methyl tert-Butyl Ether
Concen: 8.783 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 73 Resp: 117924

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 26.6 | 21.3 | 31.9 |

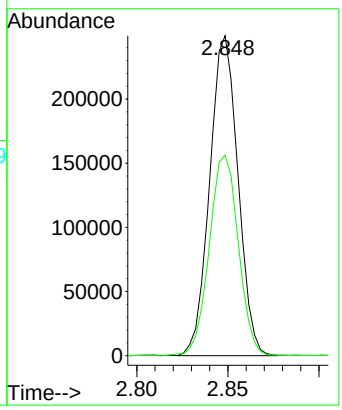





#29
Chloroform
Concen: 9.290 ppbv
RT: 2.848 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 83 Resp: 26908

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.5 | 50.0 | 75.0 |

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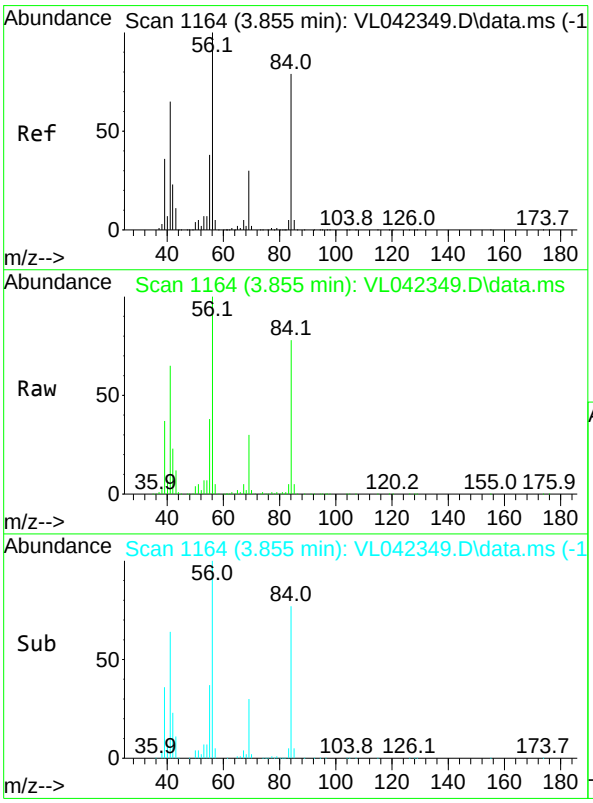
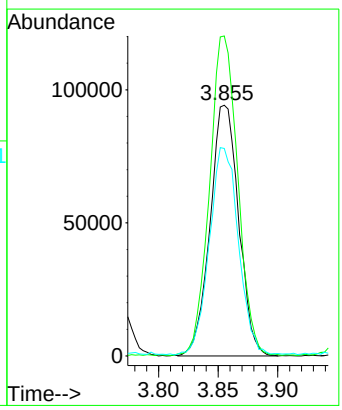
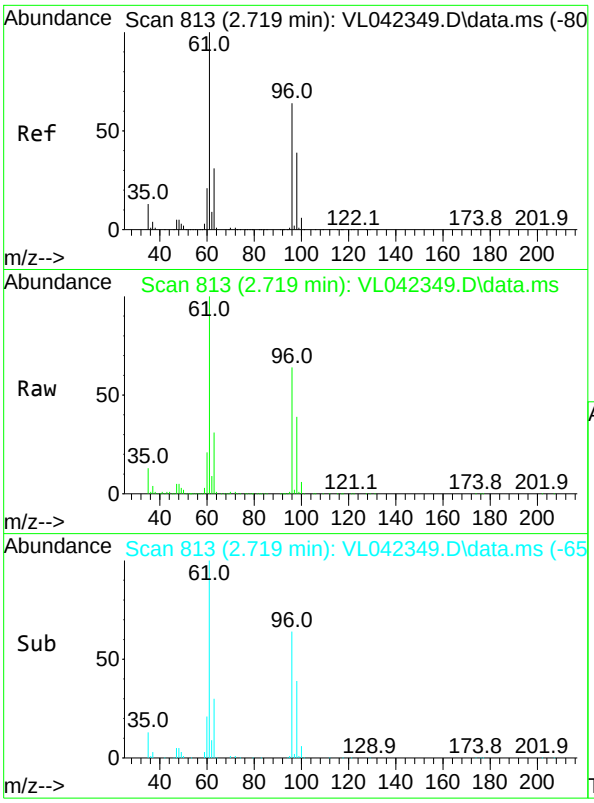



#30
Cyclohexane
Concen: 9.517 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 84 Resp: 157035

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 126.2 | 101.0 | 151.4 |
| 41 | 84.2 | 67.4 | 101.0 |

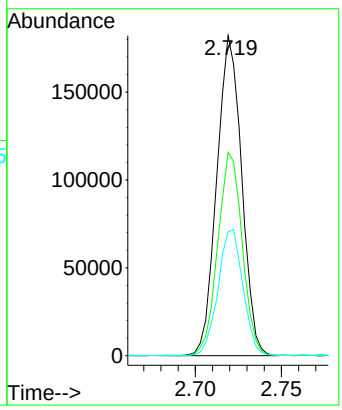





#31
cis-1,2-Dichloroethene
Concen: 9.397 ppbv
RT: 2.719 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 61 Resp: 18308

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 63.5 | 50.8 | 76.2 |
| 98 | 38.6 | 30.9 | 46.3 |

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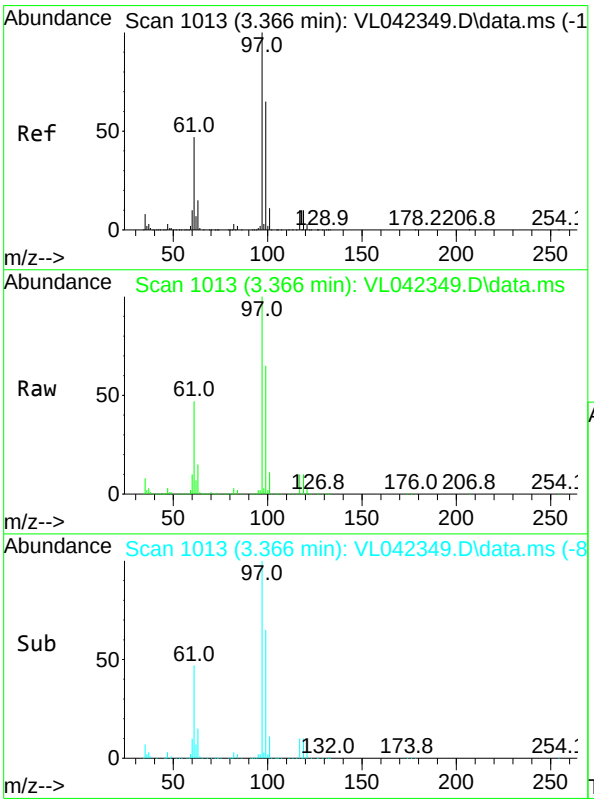
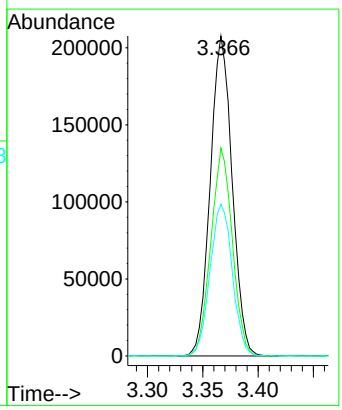
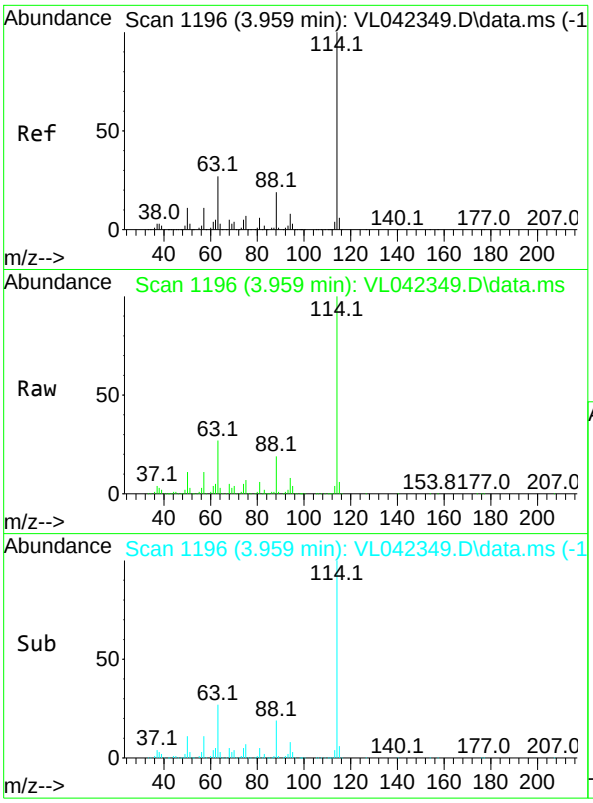



#32
1,1,1-Trichloroethane
Concen: 9.187 ppbv
RT: 3.366 min Scan# 1013
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 97 Resp: 285336

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.7 | 51.0 | 76.4 |
| 61 | 48.5 | 38.8 | 58.2 |

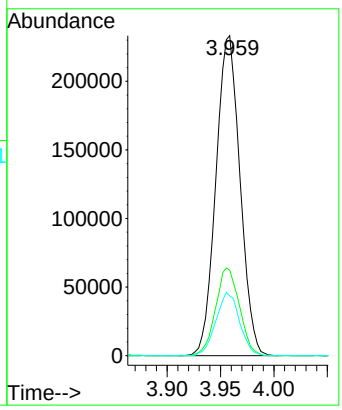





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:114 Resp: 36654

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 27.2 | 21.8 | 32.6 |
| 88 | 19.4 | 15.5 | 23.3 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

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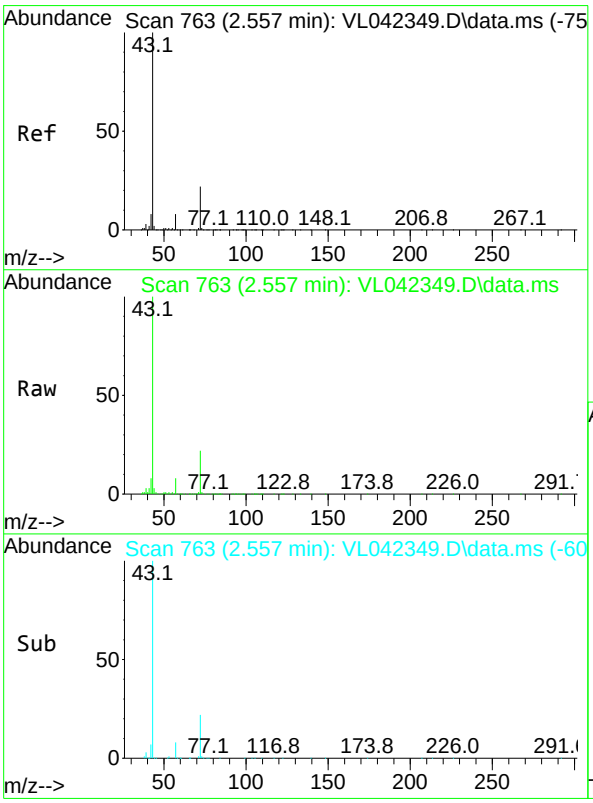
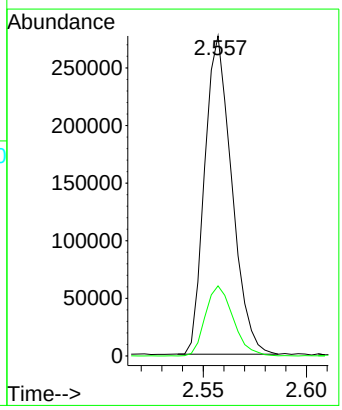
Supervised By :Mahesh Dadoda 04/18/2025

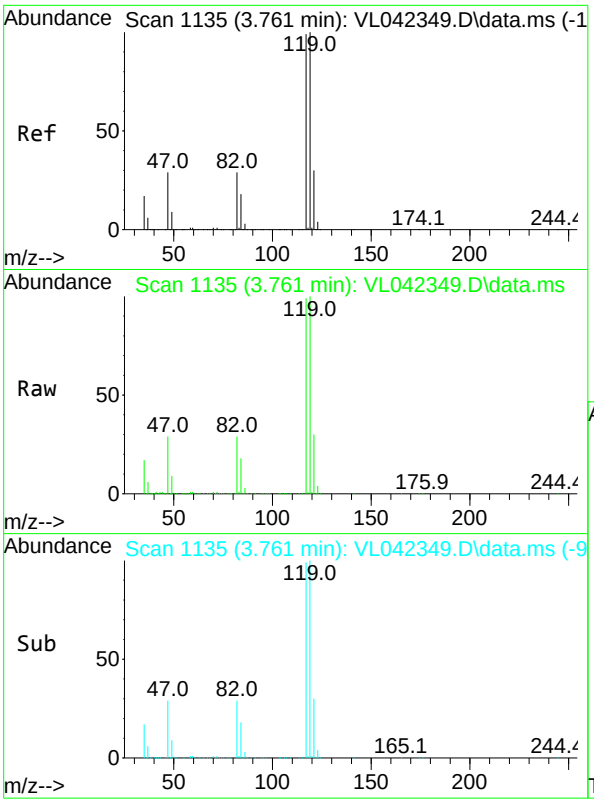



#34
2-Butanone
Concen: 8.683 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 43 Resp: 251704

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 22.7 | 18.2 | 27.2 |

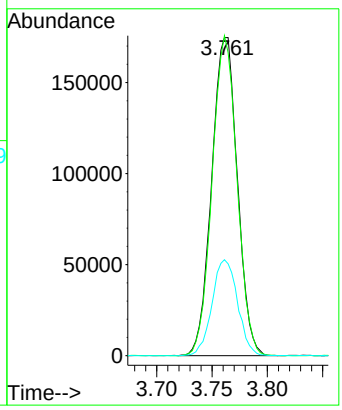





#35
Carbon Tetrachloride
Concen: 8.513 ppbv
RT: 3.761 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:117 Resp: 28240

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 100.6 | 80.5 | 120.7 |
| 121 | 30.2 | 24.2 | 36.2 |

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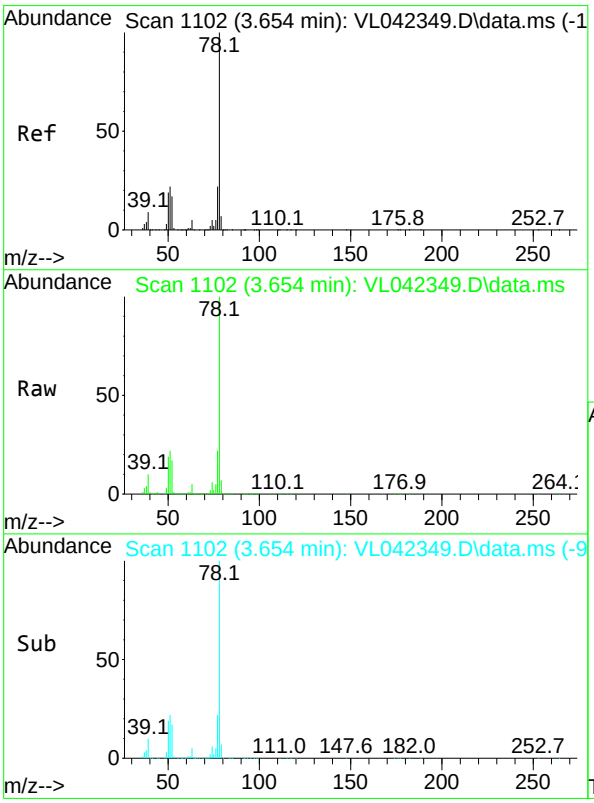
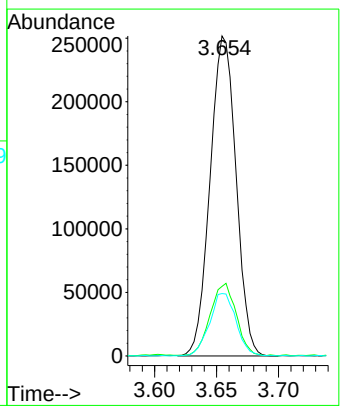
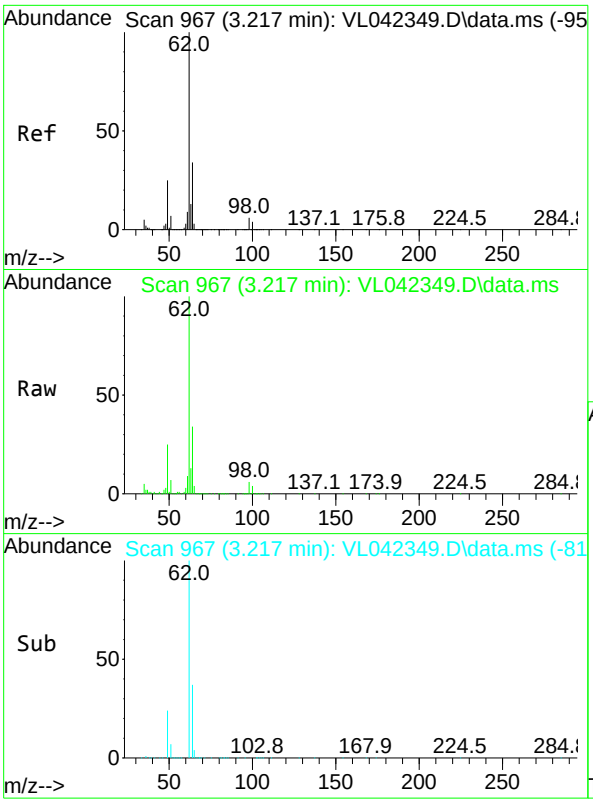



#36
Benzene
Concen: 9.292 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 78 Resp: 367355

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 21.7 | 17.4 | 26.0 |
| 50 | 19.4 | 15.5 | 23.3 |

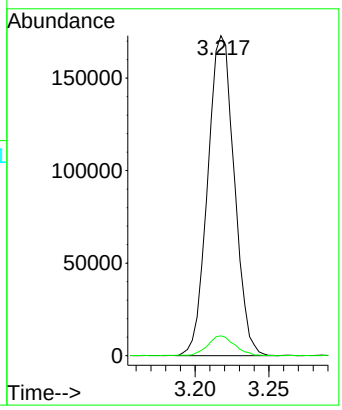





#37
1,2-Dichloroethane
Concen: 9.145 ppbv
RT: 3.217 min Scan# 9
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 62 Resp: 21699

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 6.4 | 5.1 | 7.7 |




**Instrument :**
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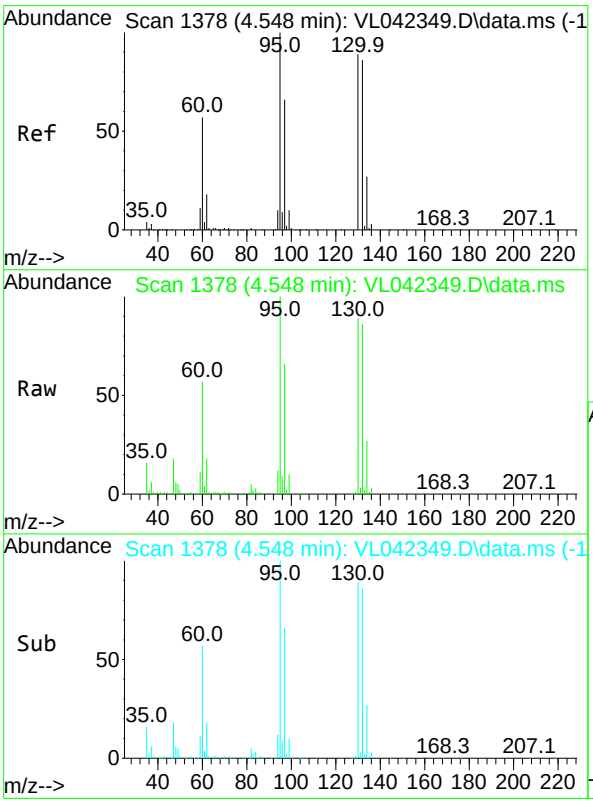
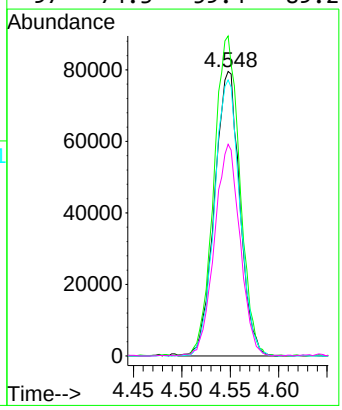
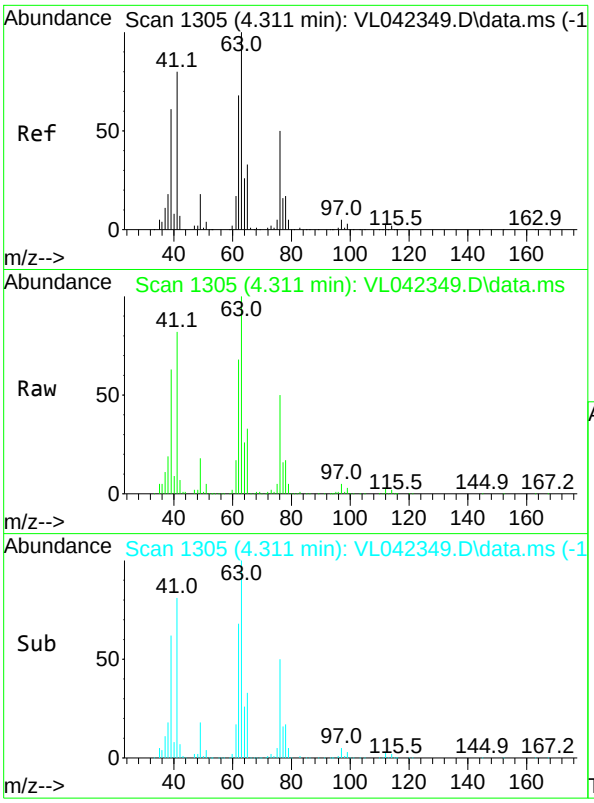



#38
Trichloroethene
Concen: 8.352 ppbv
RT: 4.548 min Scan# 1378
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:130 Resp: 144767

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 112.2 | 89.8 | 134.6 |
| 132 | 97.1 | 77.7 | 116.5 |
| 97 | 74.3 | 59.4 | 89.2 |

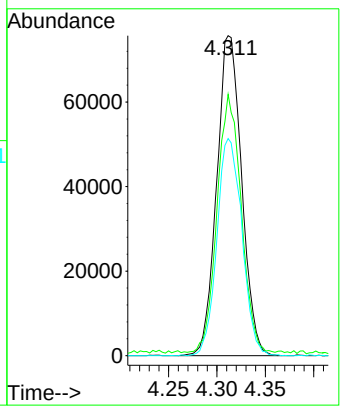





#39
1,2-Dichloropropane
Concen: 9.197 ppbv
RT: 4.311 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 63 Resp: 13560

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 80.2 | 64.2 | 96.2 |
| 62 | 67.9 | 54.3 | 81.5 |

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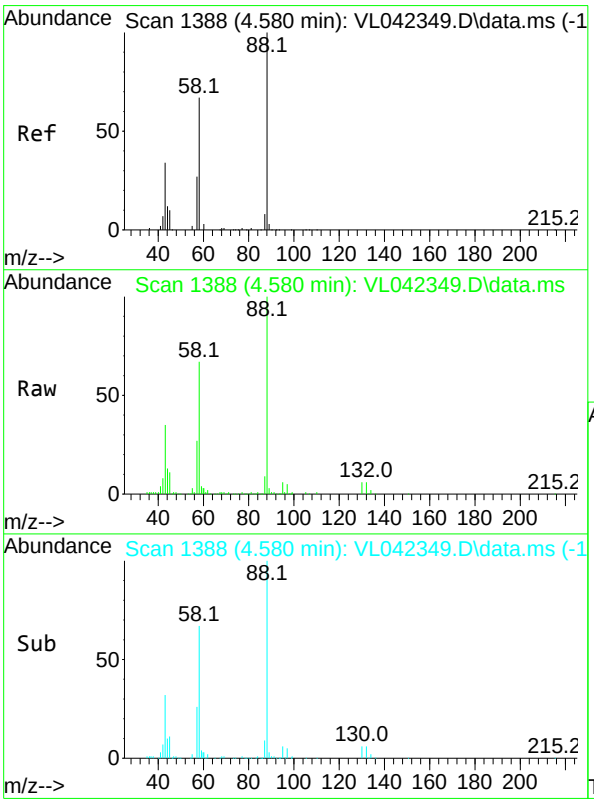
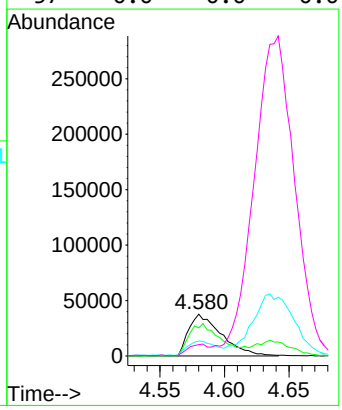
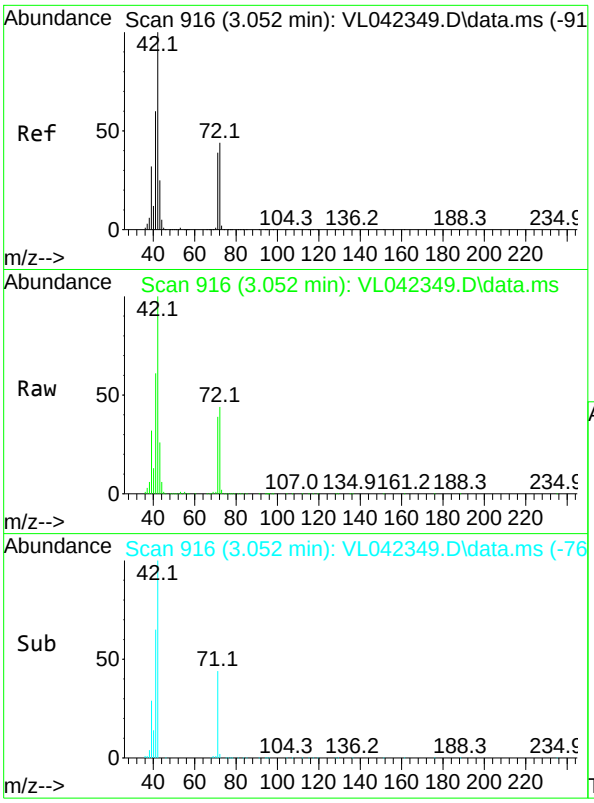



#40
1,4-Dioxane
Concen: 8.348 ppbv
RT: 4.580 min Scan# 1388
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 88 Resp: 66662

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 76.7 | 61.4 | 92.0 |
| 43 | 29.0 | 23.2 | 34.8 |
| 57 | 0.0 | 0.0 | 0.0 |

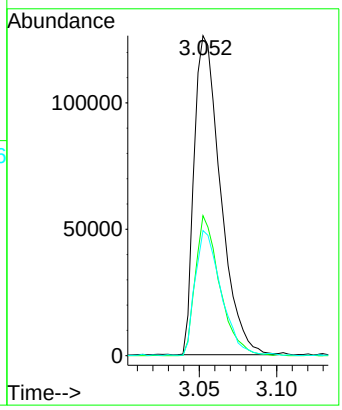





#41
Tetrahydrofuran
Concen: 8.950 ppbv
RT: 3.052 min Scan# 9
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 42 Resp: 14990

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 40.4 | 32.3 | 48.5 |
| 71 | 39.3 | 31.4 | 47.2 |

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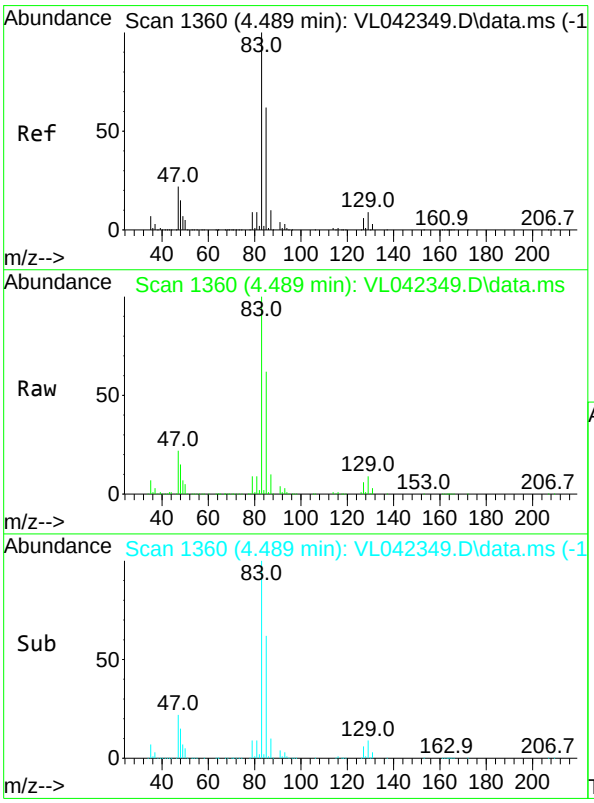
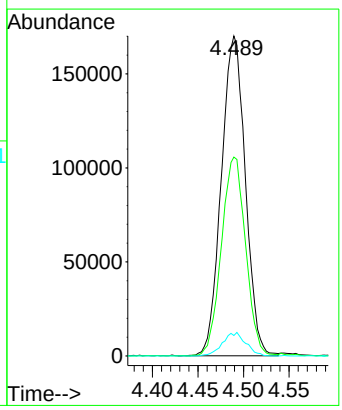
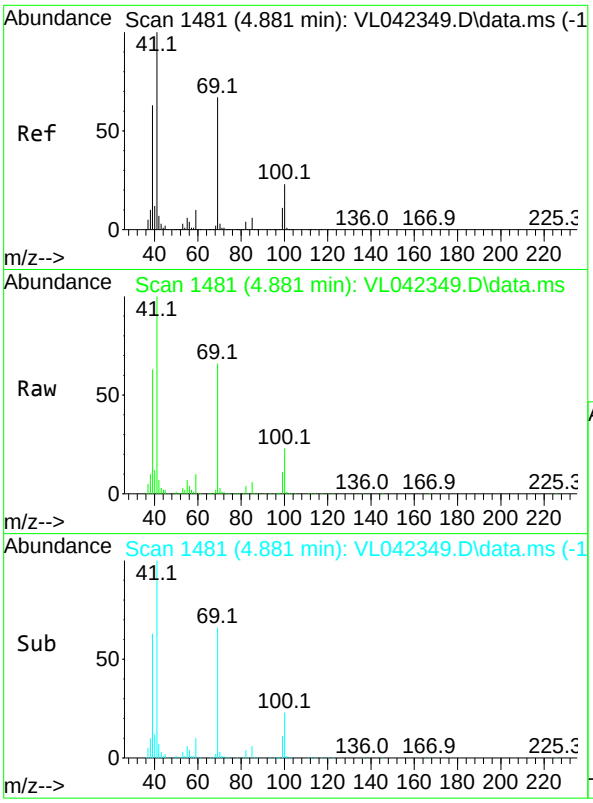



#42
Bromodichloromethane
Concen: 9.456 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 83 Resp: 312268

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.1 | 49.7 | 74.5 |
| 127 | 6.4 | 5.1 | 7.7 |

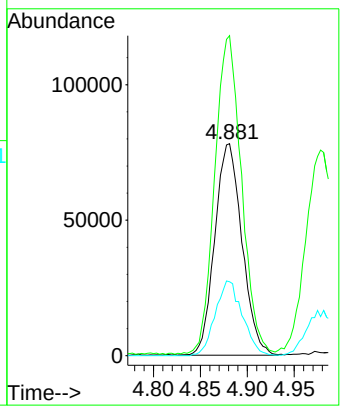





#43
Methyl Methacrylate
Concen: 8.876 ppbv
RT: 4.881 min Scan# 14
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 69 Resp: 15750

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 148.2 | 118.6 | 177.8 |
| 100 | 35.2 | 28.2 | 42.2 |

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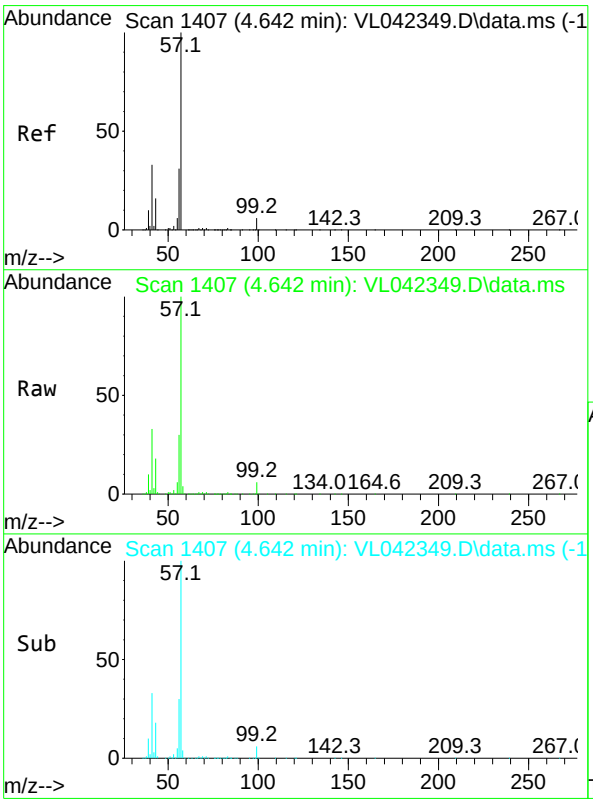
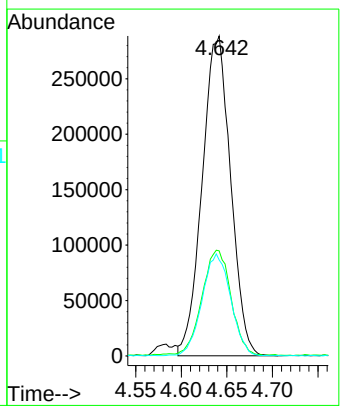
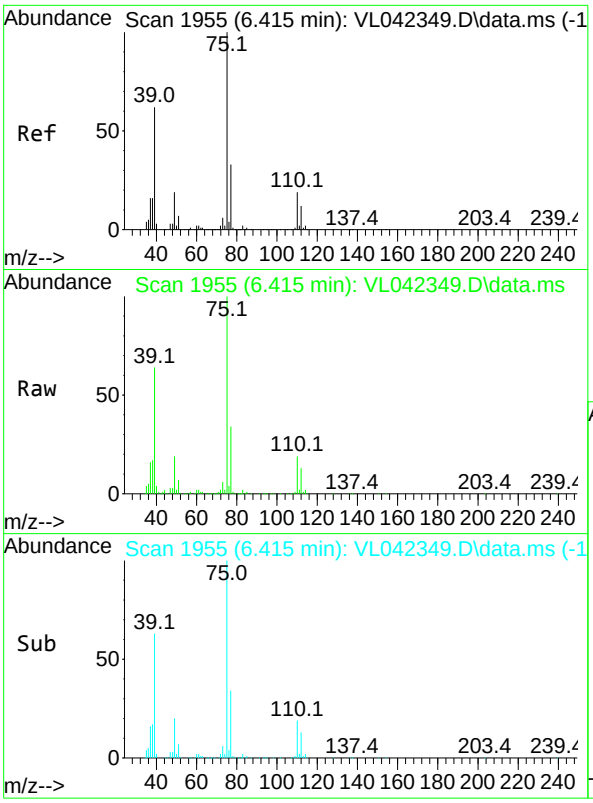



#44
2,2,4-Trimethylpentane
Concen: 9.157 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 57 Resp: 626085

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 34.0 | 27.2 | 40.8 |
| 56 | 32.1 | 25.7 | 38.5 |

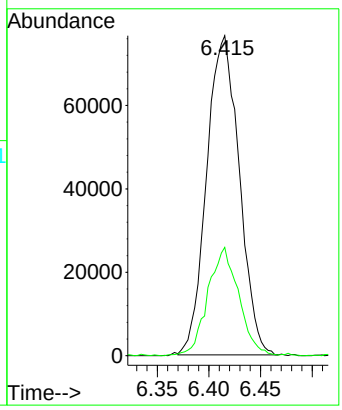





#45
t-1,3-Dichloropropene
Concen: 9.233 ppbv
RT: 6.415 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 75 Resp: 16822

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 33.8 | 27.0 | 40.6 |

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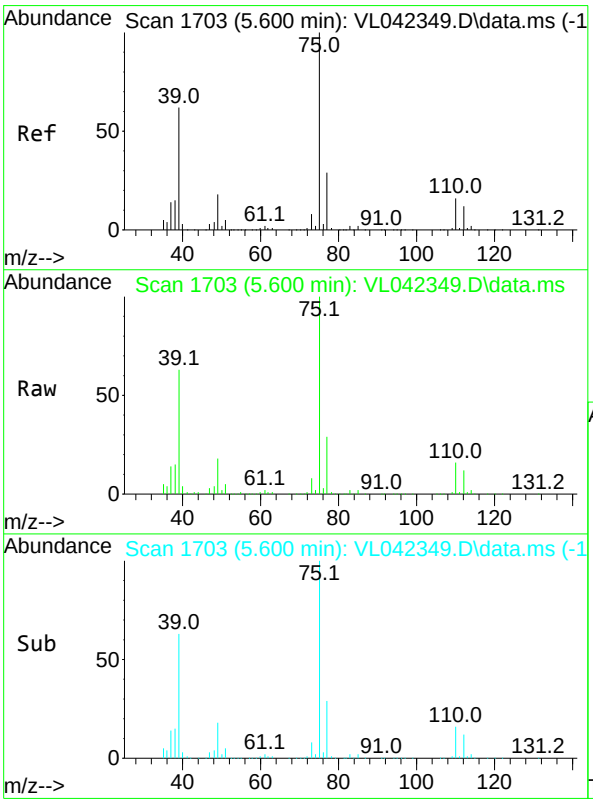
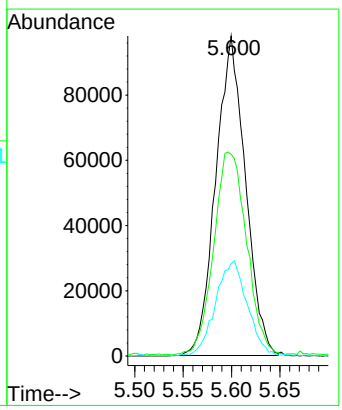
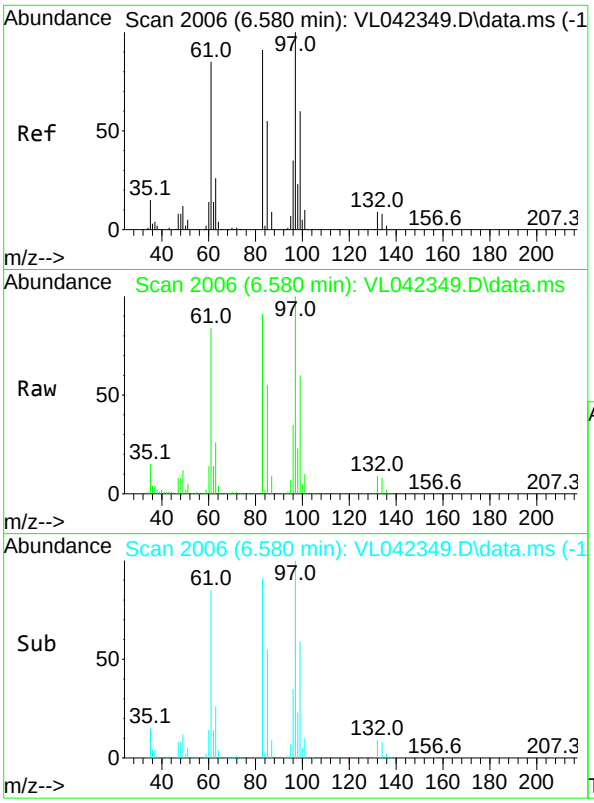



#46
cis-1,3-Dichloropropene
Concen: 9.377 ppbv
RT: 5.600 min Scan# 1703
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 75 Resp: 208811

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 39 | 62.5 | 50.0 | 75.0 |
| 77 | 28.8 | 23.0 | 34.6 |

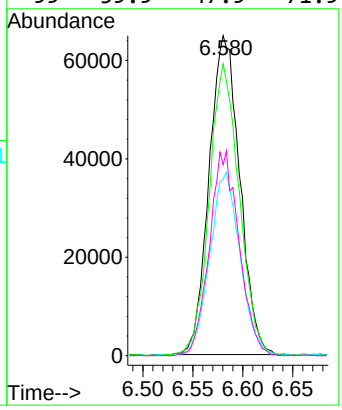





#47
1,1,2-Trichloroethane
Concen: 9.181 ppbv
RT: 6.580 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 97 Resp: 13789

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 91.0 | 72.8 | 109.2 |
| 85 | 55.3 | 44.2 | 66.4 |
| 99 | 59.9 | 47.9 | 71.9 |

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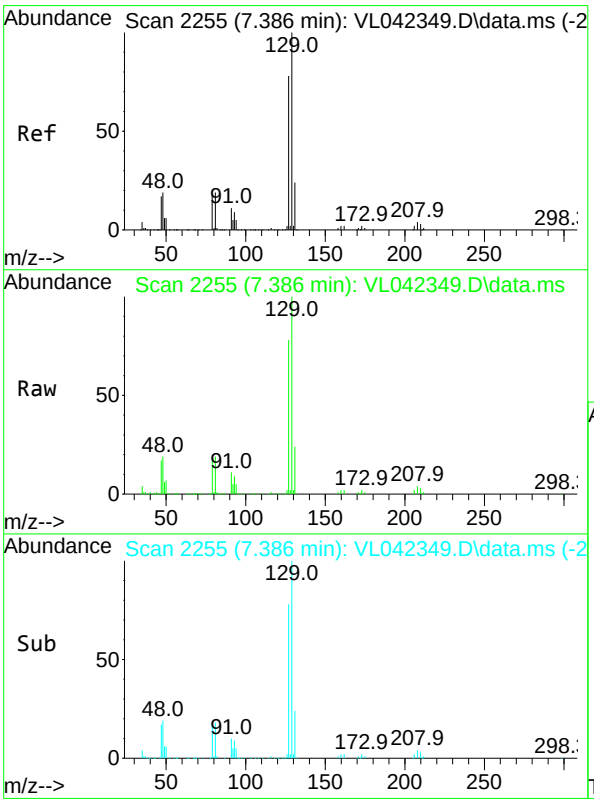
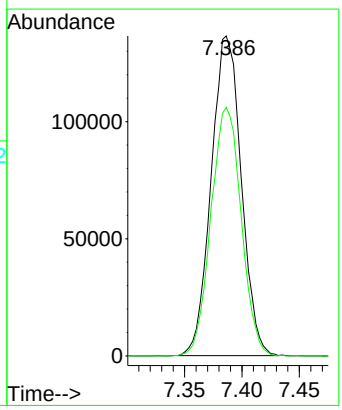
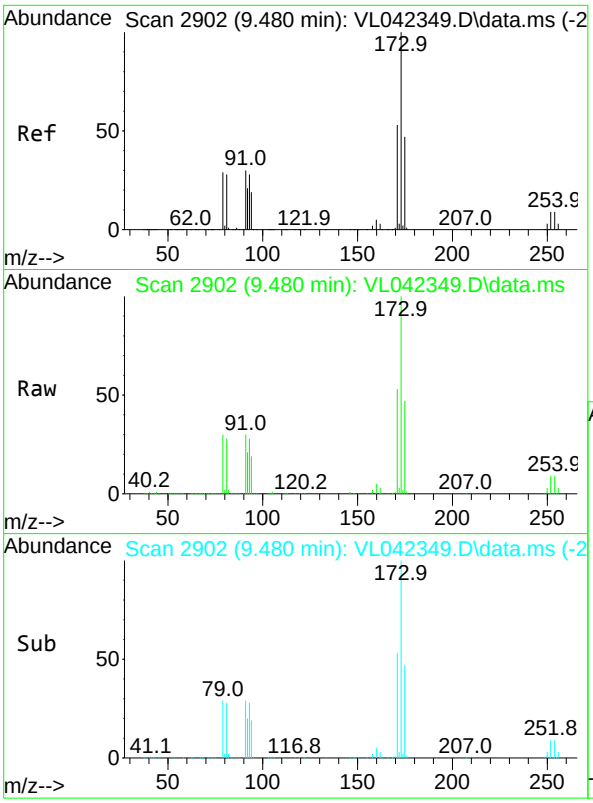



#48
Dibromochloromethane
Concen: 9.388 ppbv
RT: 7.386 min Scan# 2255
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:129 Resp: 248954

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.2 | 39.1 | 117.3 |

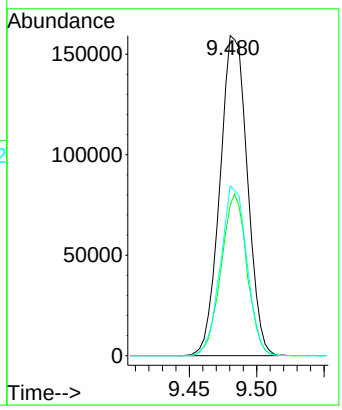





#49
Bromoform
Concen: 9.734 ppbv
RT: 9.480 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:173 Resp: 22570

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 47.7 | 38.2 | 57.2 |
| 171 | 51.1 | 40.9 | 61.3 |

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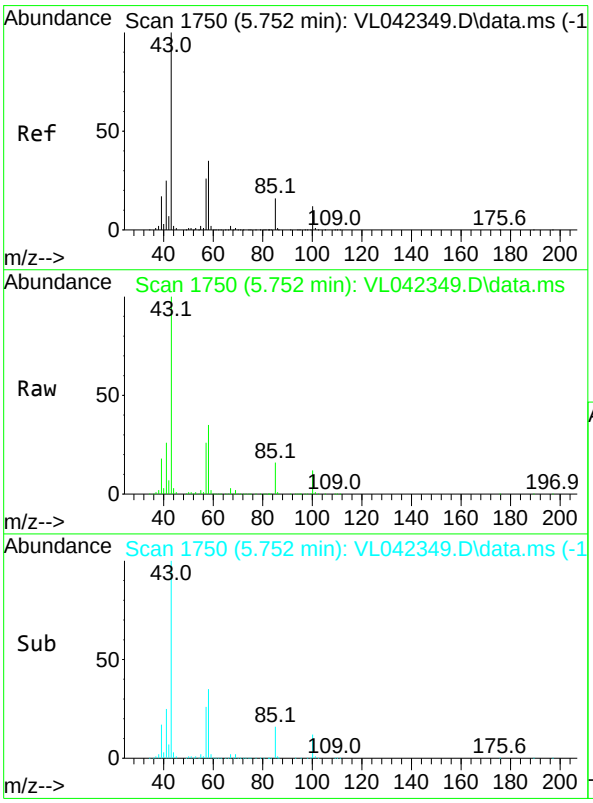
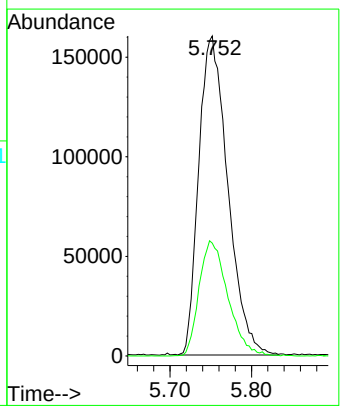
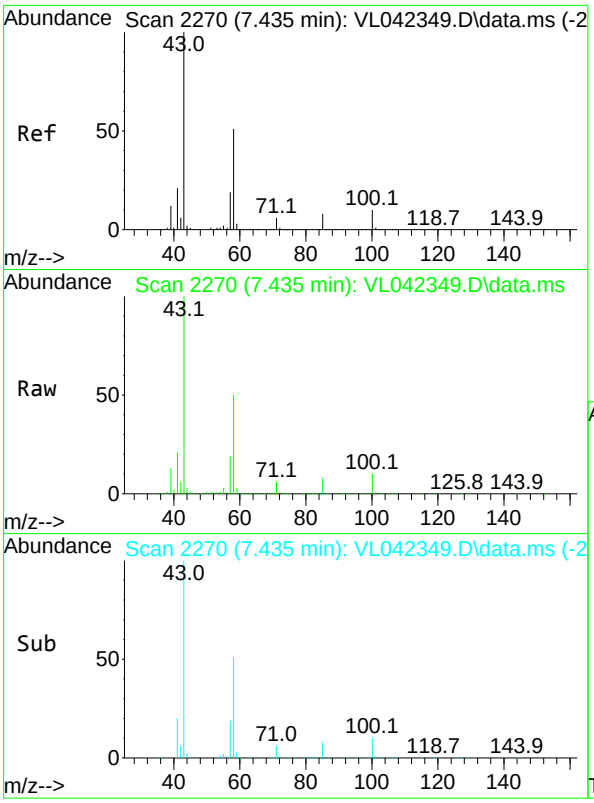



#50
4-Methyl-2-Pentanone
Concen: 8.215 ppbv
RT: 5.752 min Scan# 1750
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 43 Resp: 396548

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 35.8 | 28.6 | 43.0 |

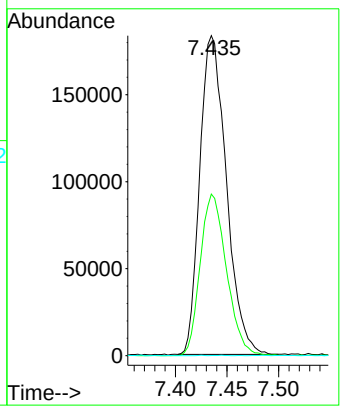





#51
2-Hexanone
Concen: 7.511 ppbv
RT: 7.435 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 43 Resp: 32716

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 50.3 | 40.2 | 60.4 |
| 98 | 0.1 | 0.1 | 0.1 |




**Instrument :**
MSVOA_L
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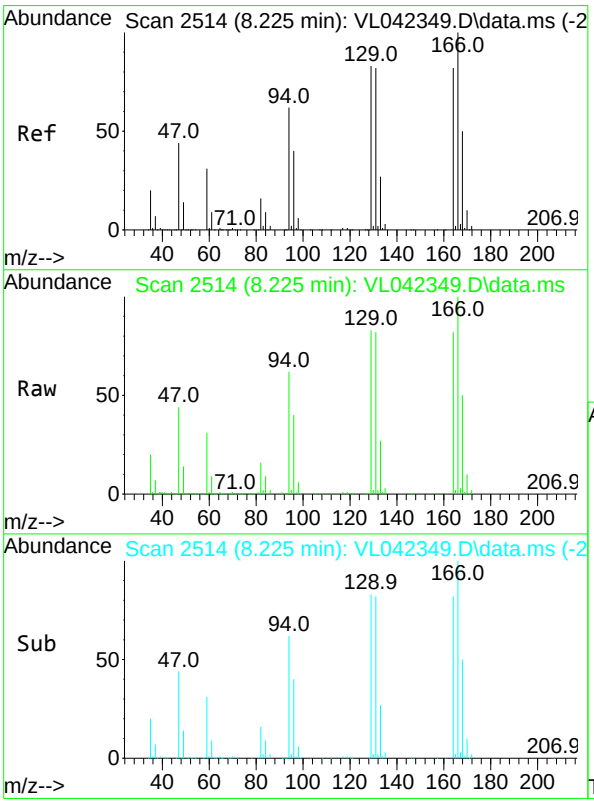
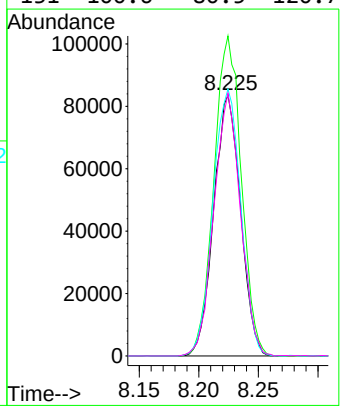
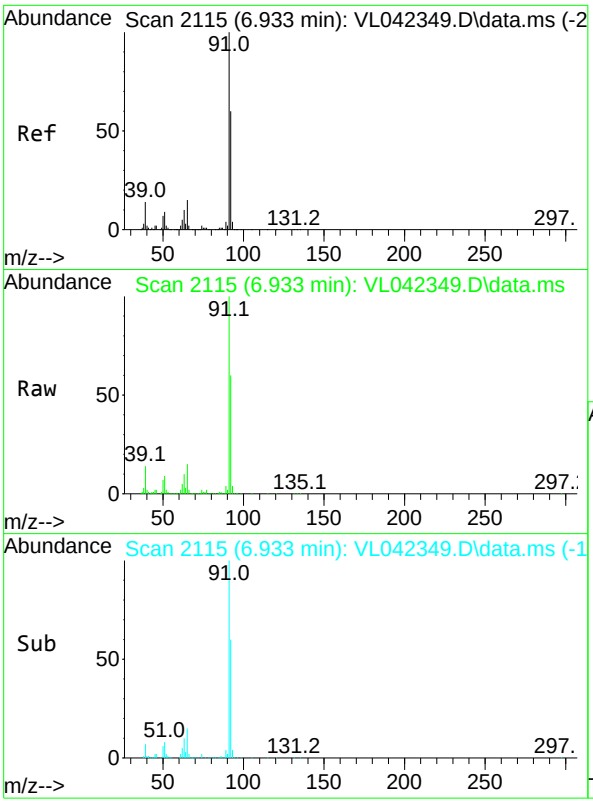



#52
Tetrachloroethene
Concen: 8.553 ppbv
RT: 8.225 min Scan# 2514
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:164 Resp: 130720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 122.7 | 98.2 | 147.2 |
| 129 | 102.3 | 81.8 | 122.8 |
| 131 | 100.6 | 80.5 | 120.7 |

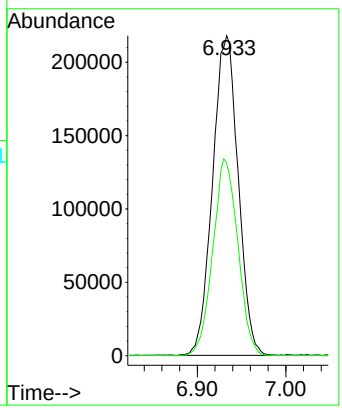





#53
Toluene
Concen: 9.216 ppbv
RT: 6.933 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 91 Resp: 43725

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 60.3 | 48.2 | 72.4 |

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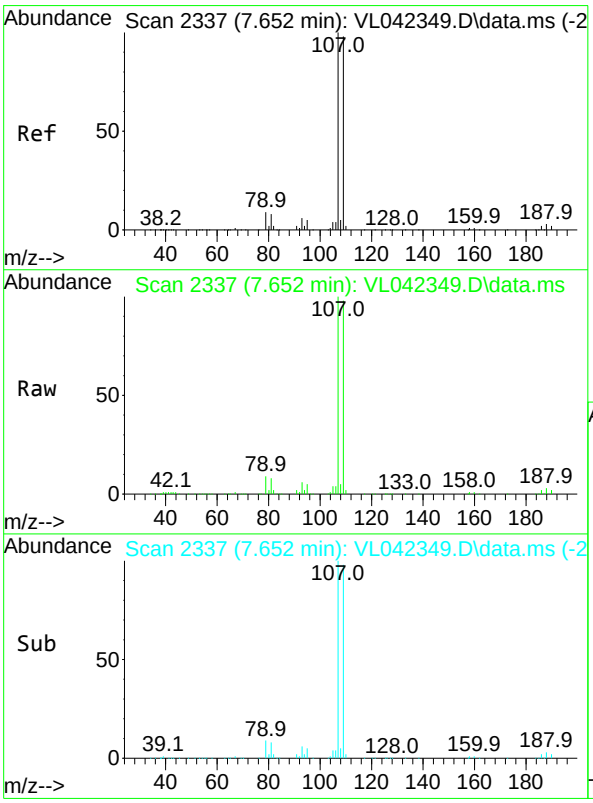
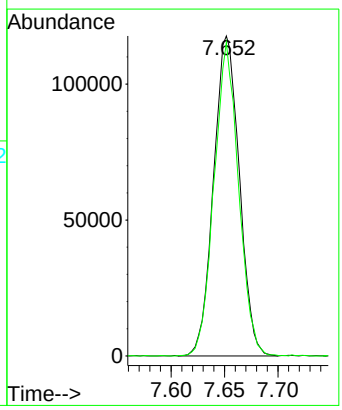
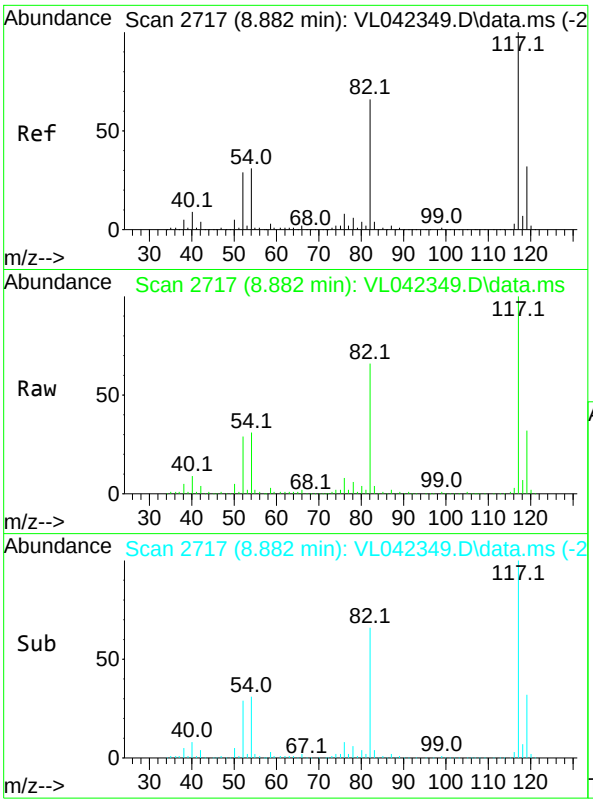



#54
1,2-Dibromoethane
Concen: 9.235 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:107 Resp: 197665

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 97.8 | 78.2 | 117.4 |

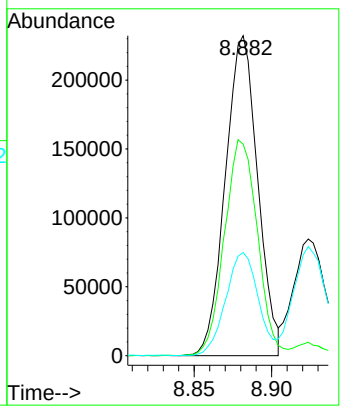





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:117 Resp: 33812

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 72.2 | 57.8 | 86.6 |
| 119 | 31.5 | 25.2 | 37.8 |

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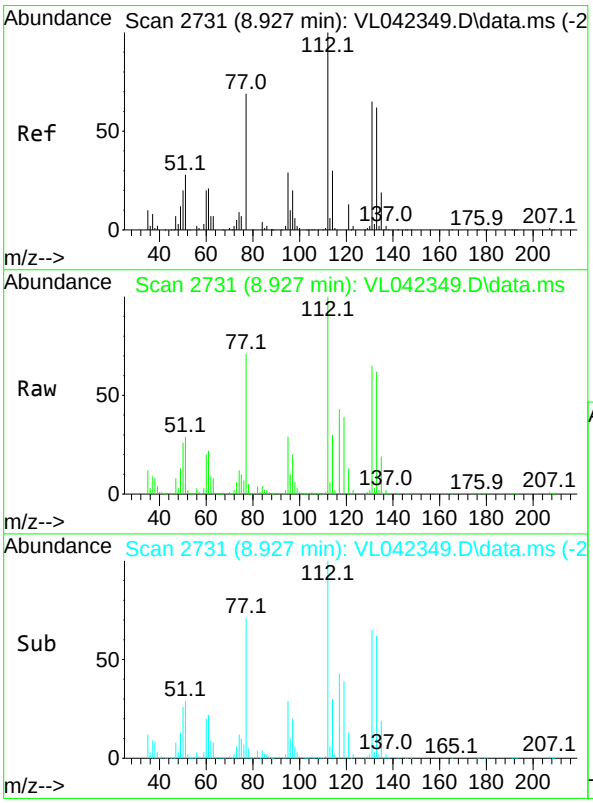
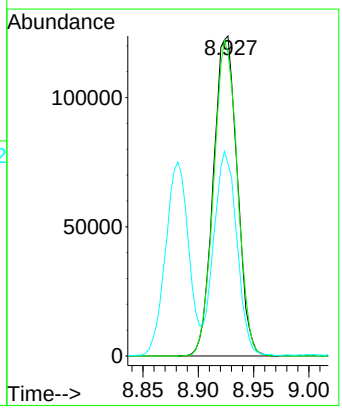
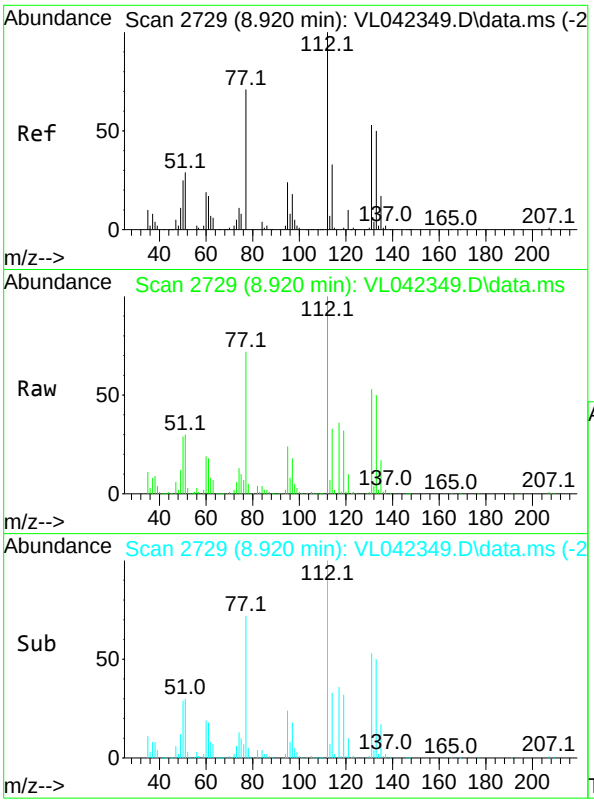



#56
1,1,1,2-Tetrachloroethane
Concen: 9.091 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:131 Resp: 186041

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 97.9 | 78.3 | 117.5 |
| 119 | 60.9 | 48.7 | 73.1 |

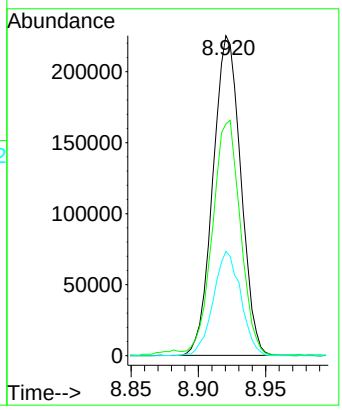





#57
Chlorobenzene
Concen: 9.187 ppbv
RT: 8.920 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:112 Resp: 32308

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 72.2 | 57.8 | 86.6 |
| 114 | 32.6 | 29.3 | 35.9 |

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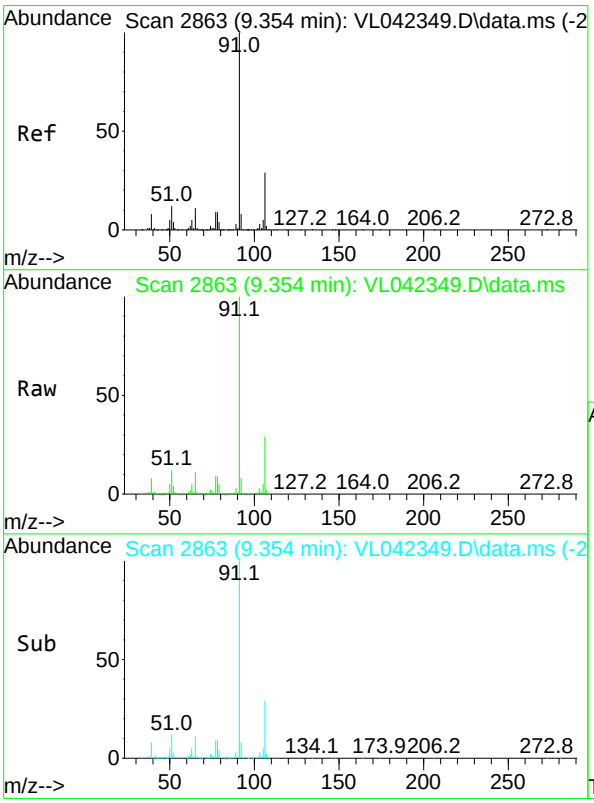
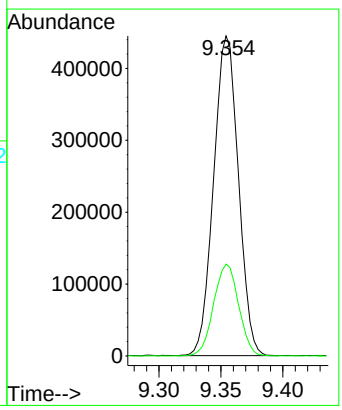
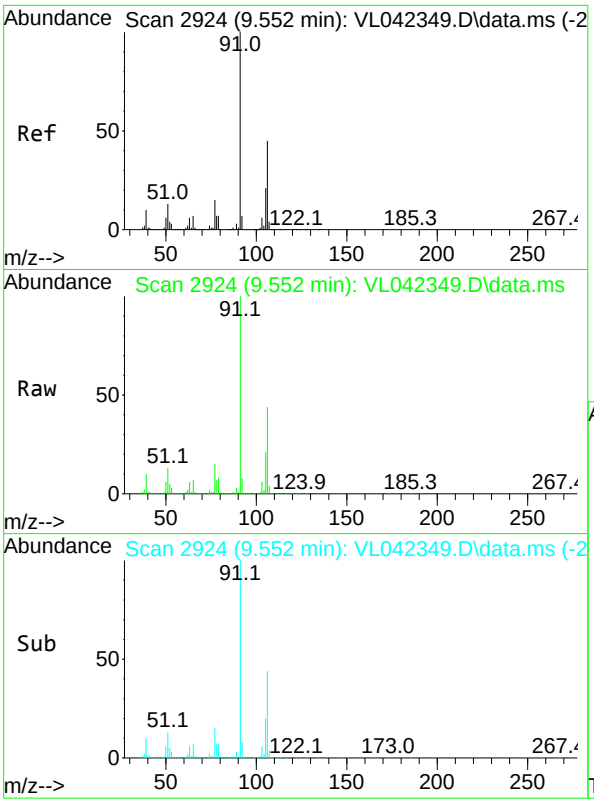



#58
Ethyl Benzene
Concen: 9.248 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 91 Resp: 619581

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 28.7 | 23.0 | 34.4 |

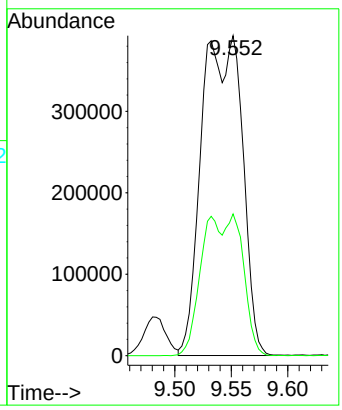





#59
m/p-Xylene
Concen: 18.187 ppbv m
RT: 9.552 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 91 Resp: 98445

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 44.3 | 35.4 | 53.2 |




**Instrument :**
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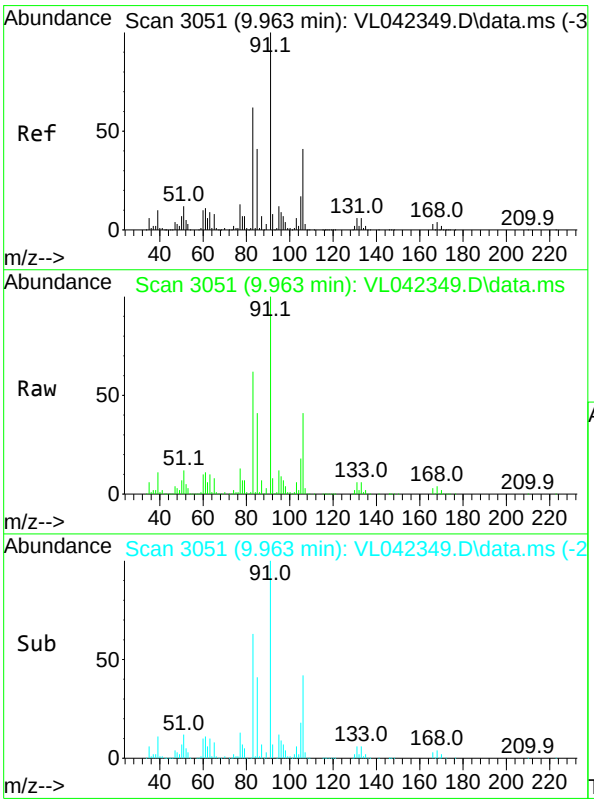
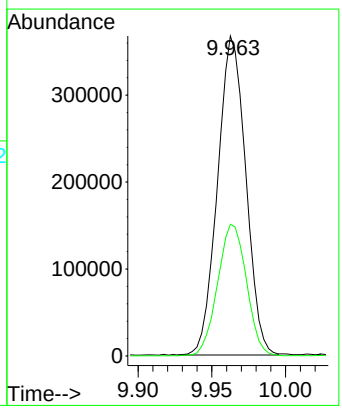
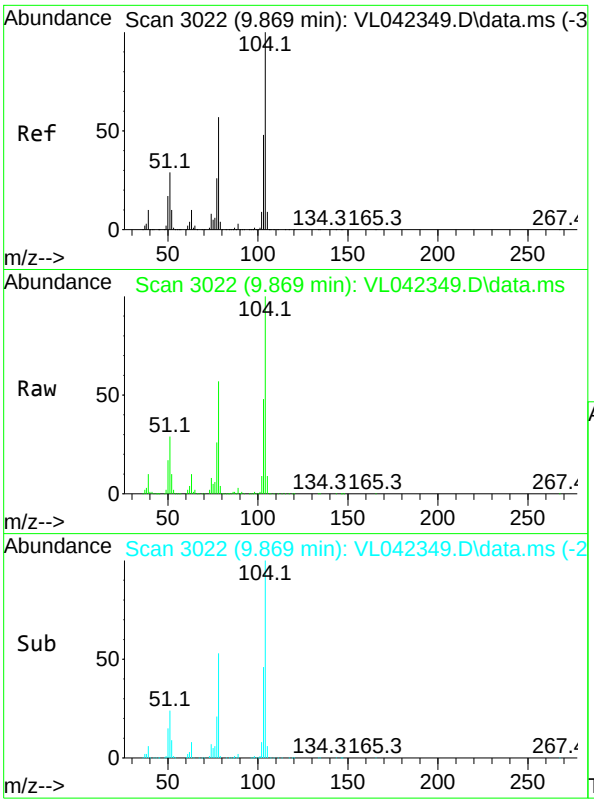



#60
o-Xylene
Concen: 8.972 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 91 Resp: 487616

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 42.3 | 21.1 | 63.4 |

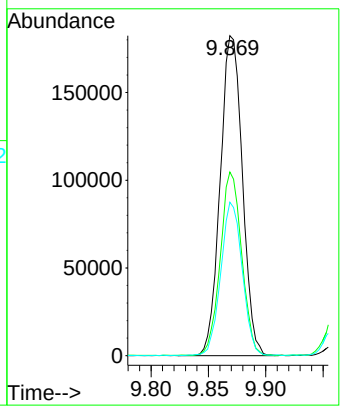





#61
Styrene
Concen: 9.464 ppbv
RT: 9.869 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:104 Resp: 24548

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 55.7 | 44.6 | 66.8 |
| 103 | 46.7 | 37.4 | 56.0 |




**Instrument :**
MSVOA_L
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VSTDICCC010

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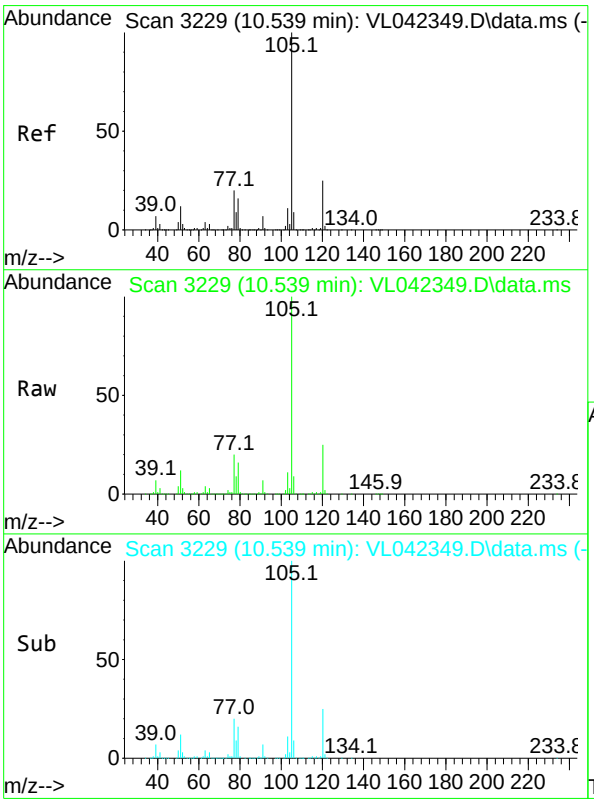
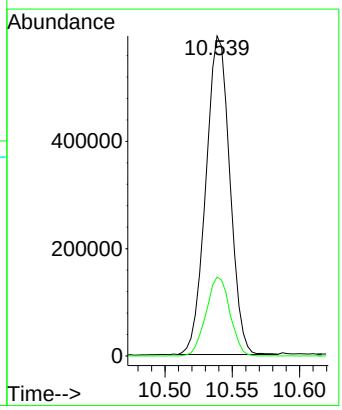
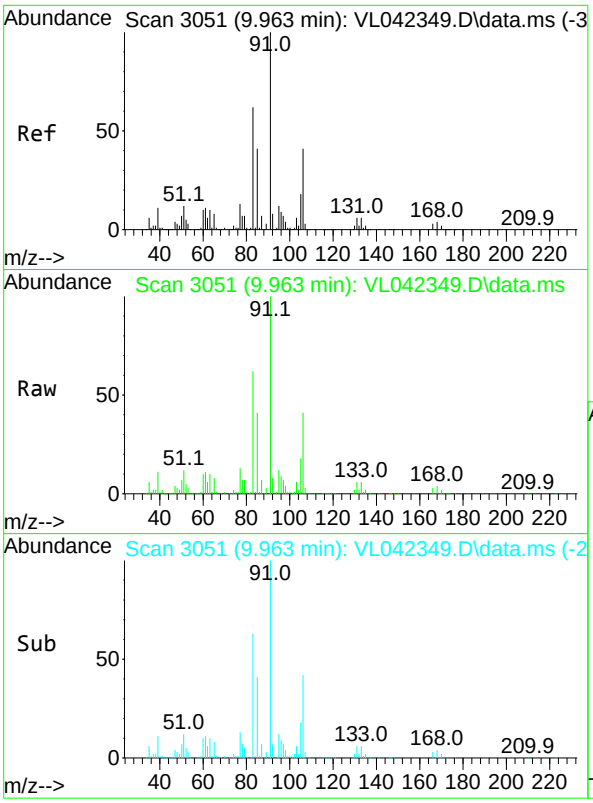



#62
Isopropylbenzene
Concen: 9.197 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:105 Resp: 733788

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 24.8 | 19.8 | 29.8 |

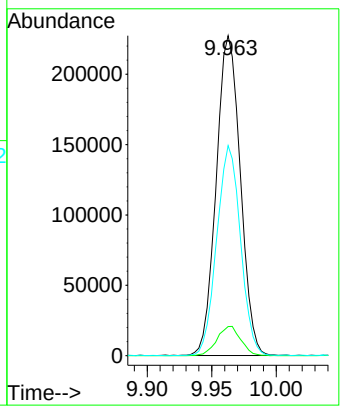





#63
1,1,2,2-Tetrachloroethane
Concen: 8.355 ppbv
RT: 9.963 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 83 Resp: 29504

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.1 | 4.5 | 13.7 |
| 85 | 64.7 | 32.4 | 97.0 |




**Instrument :**
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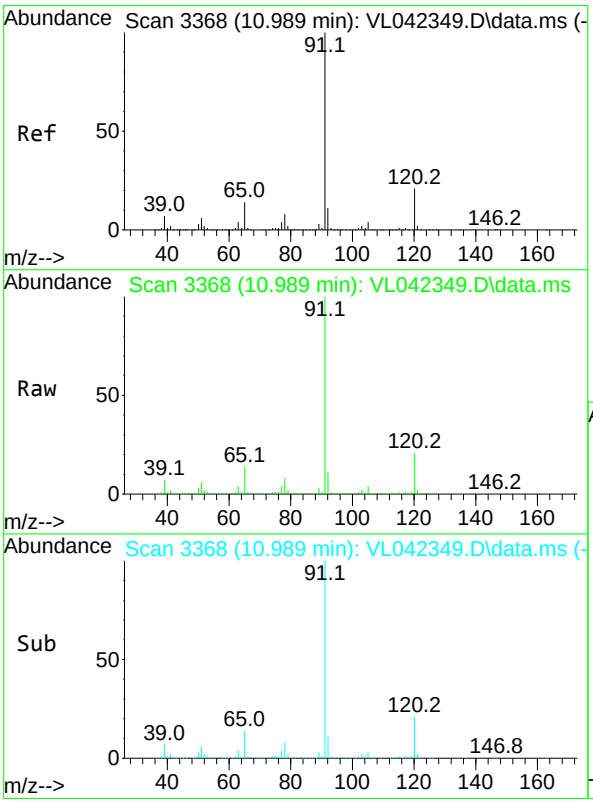
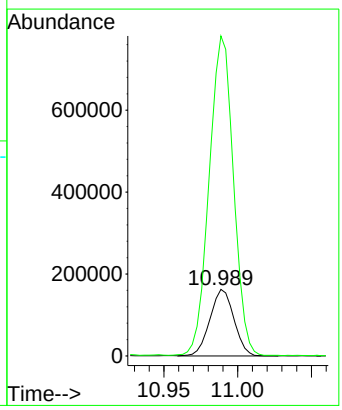
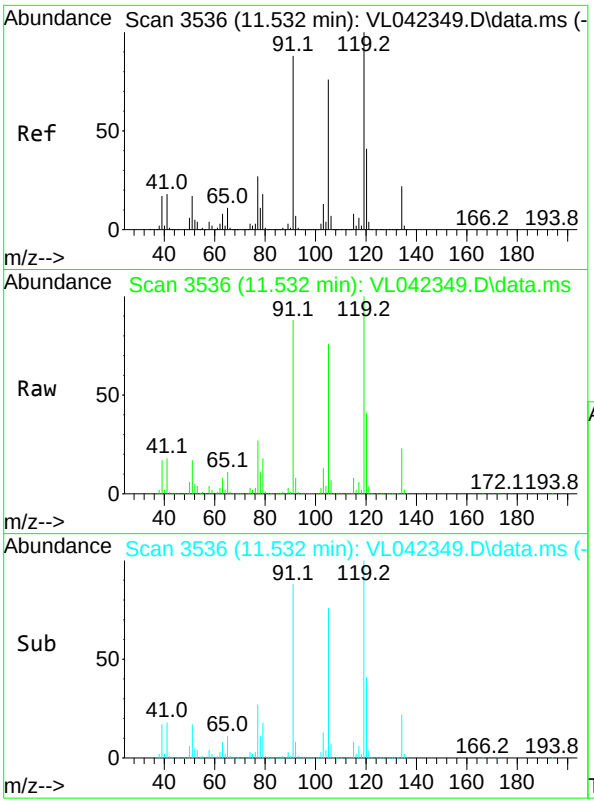



#64
n-propylbenzene
Concen: 9.144 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:120 Resp: 183390

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 490.5 | 392.4 | 588.6 |






#65
tert-Butylbenzene
Concen: 8.795 ppbv
RT: 11.532 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:119 Resp: 64495

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 93.2 | 74.6 | 111.8 |
| 134 | 23.5 | 18.8 | 28.2 |

**Instrument :**
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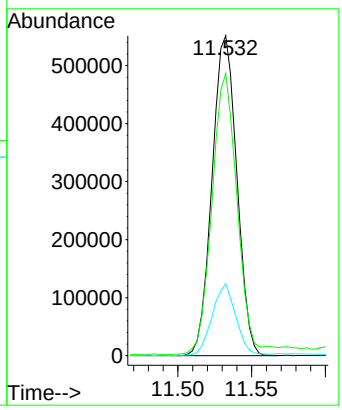
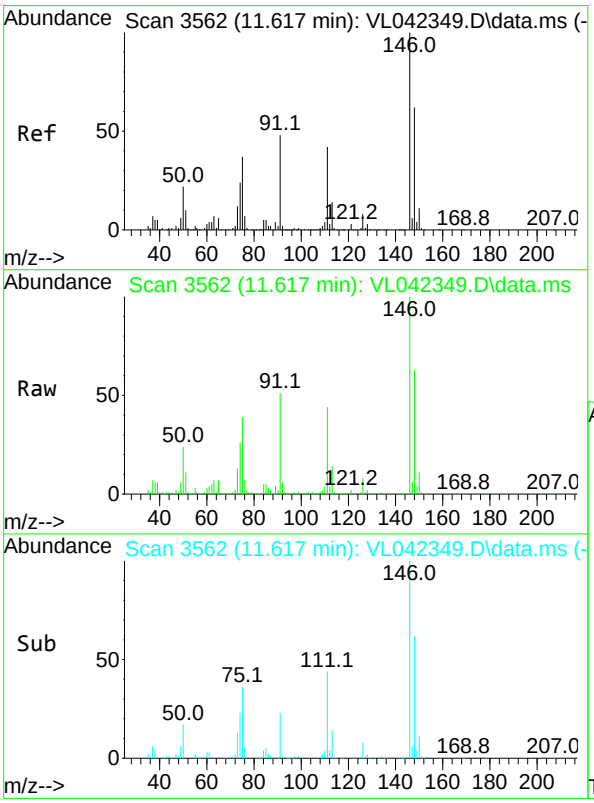
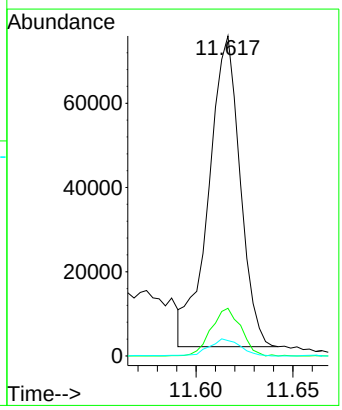


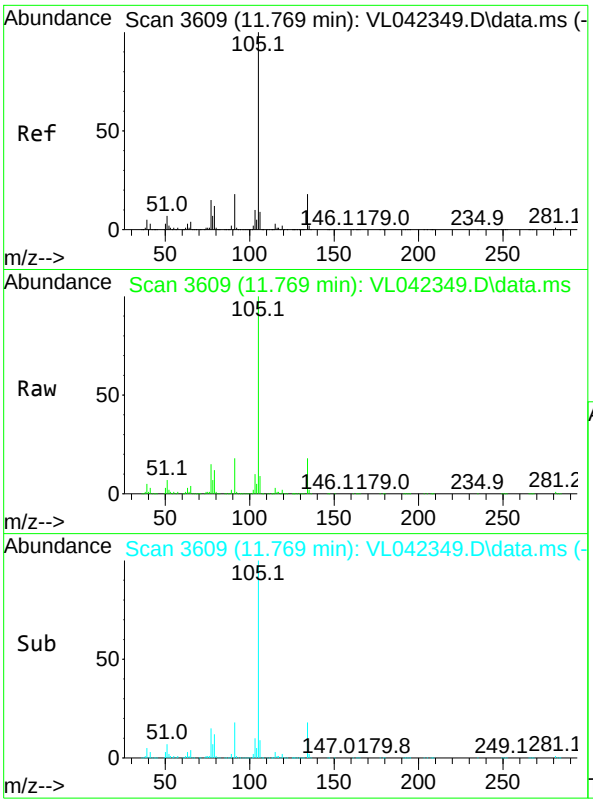




#66
Benzyl Chloride
Concen: 10.333 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 91 Resp: 83269

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 14.7 | 11.8 | 17.6 |
| 128 | 5.6 | 4.5 | 6.7 |

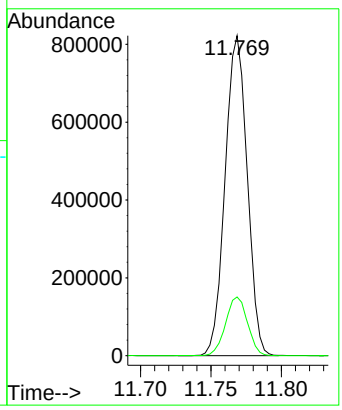





#67
sec-Butylbenzene
Concen: 8.824 ppbv
RT: 11.769 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:105 Resp: 90007

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 18.2 | 14.6 | 21.8 |

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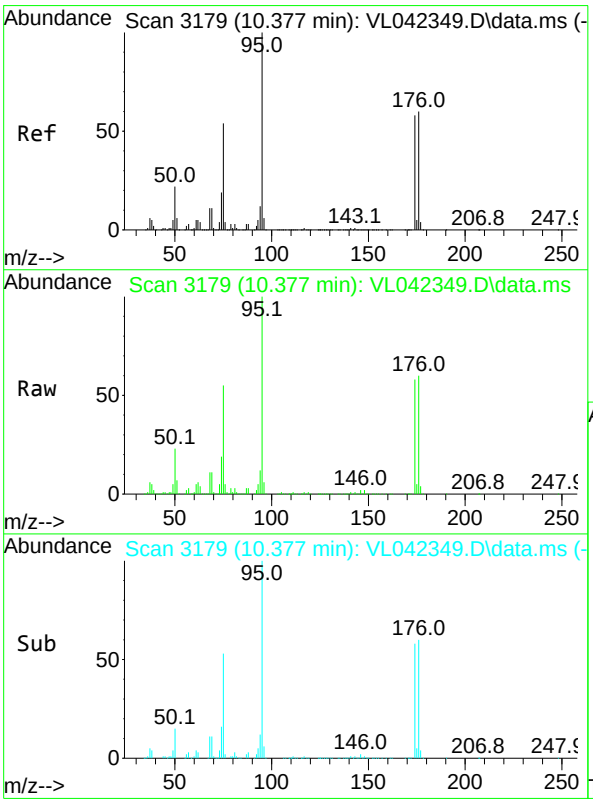
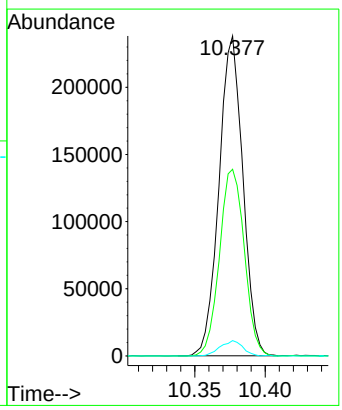
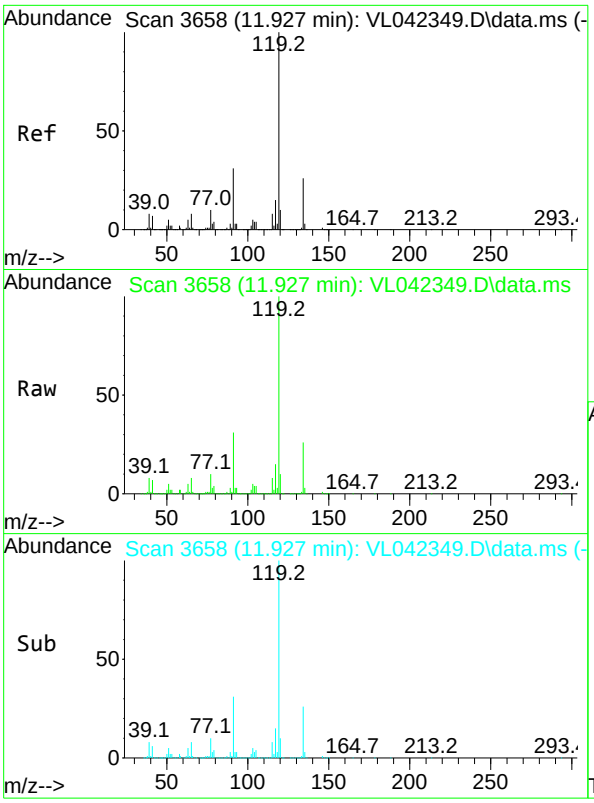



#68
1-Bromo-4-Fluorobenzene
Concen: 10.114 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 95 Resp: 281013

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 60.6 | 48.5 | 72.7 |
| 175 | 4.6 | 3.7 | 5.5 |

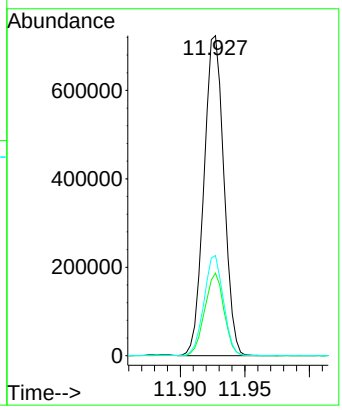





#69
p-Isopropyltoluene
Concen: 8.790 ppbv
RT: 11.927 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:119 Resp: 77898

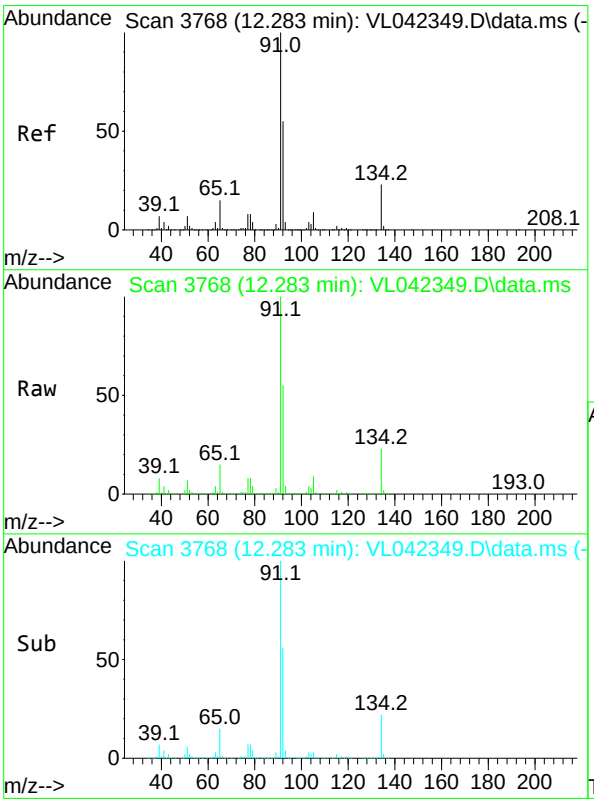
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.0 | 20.0 | 30.0 |
| 91 | 30.5 | 24.4 | 36.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

**Manual Integrations**
**APPROVED**

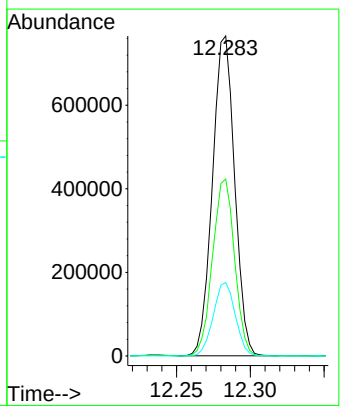
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

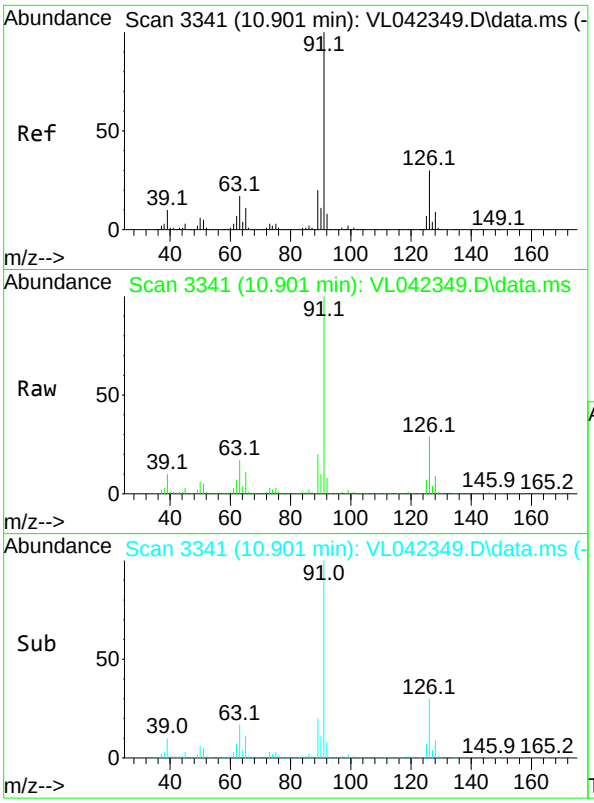



#70
n-Butylbenzene
Concen: 8.682 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 91 Resp: 801364

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 55.3 | 44.2 | 66.4 |
| 134 | 22.8 | 18.2 | 27.4 |

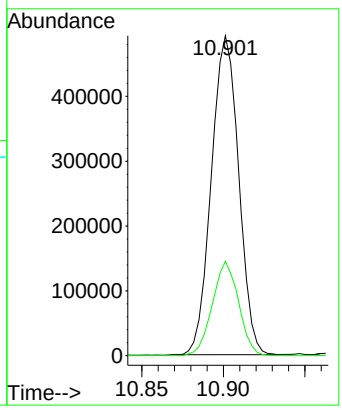





#71
2-Chlorotoluene
Concen: 9.157 ppbv
RT: 10.901 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 91 Resp: 57303

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 28.4 | 11.4 | 45.4 |




**Instrument :**
MSVOA_L
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VSTDICCC010

**Manual Integrations**
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Reviewed By :Semsettin Yesilyurt 04/18/2025
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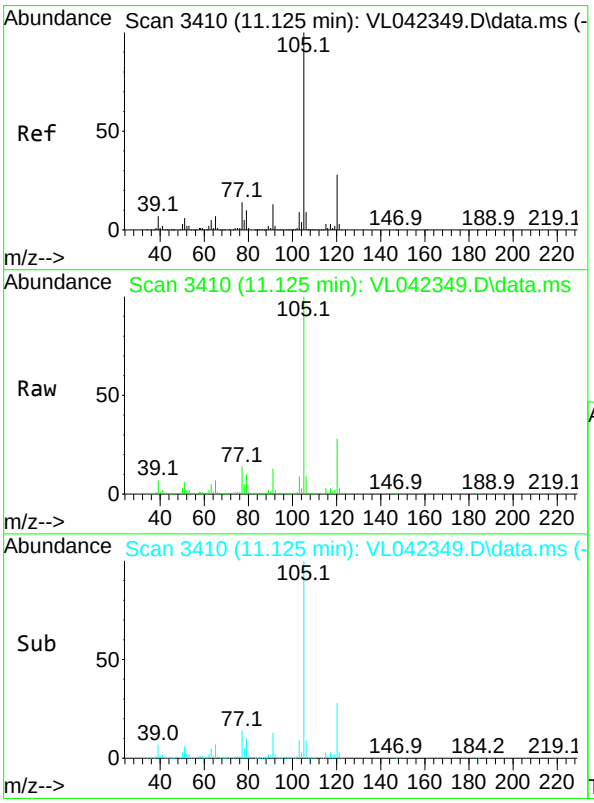
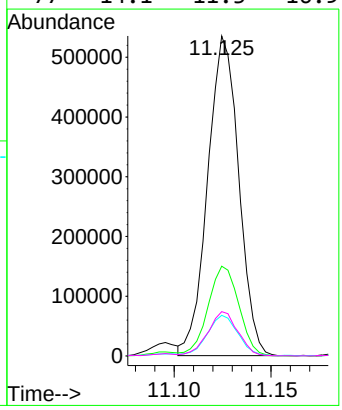
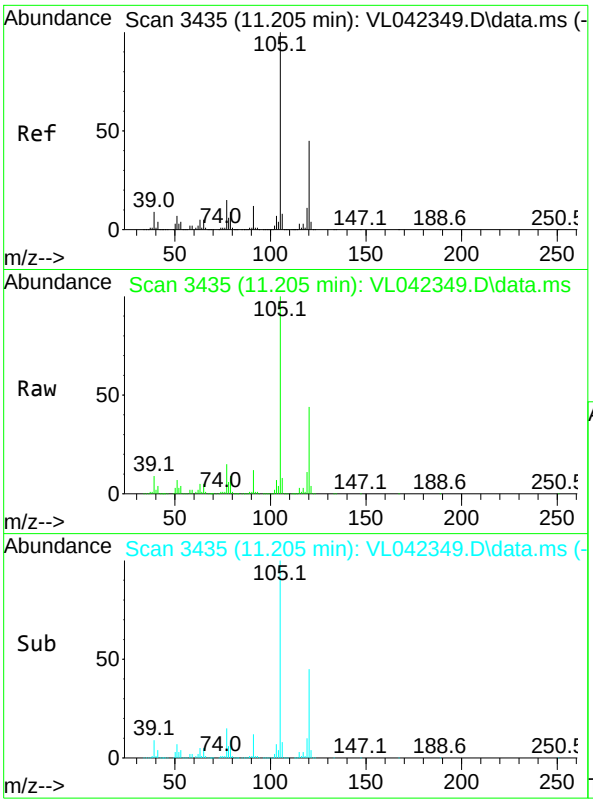



#72
4-Ethyltoluene
Concen: 8.982 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:105 Resp: 596757

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 29.0 | 23.2 | 34.8 |
| 91 | 13.0 | 10.4 | 15.6 |
| 77 | 14.1 | 11.3 | 16.9 |

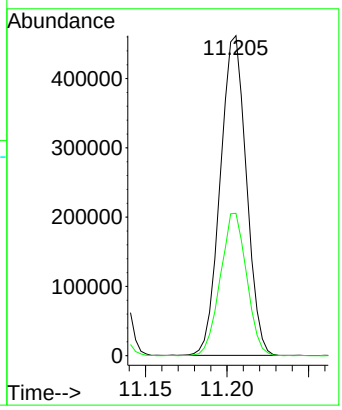





#73
1,3,5-Trimethylbenzene
Concen: 8.743 ppbv
RT: 11.205 min Scan# 34
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:105 Resp: 51285

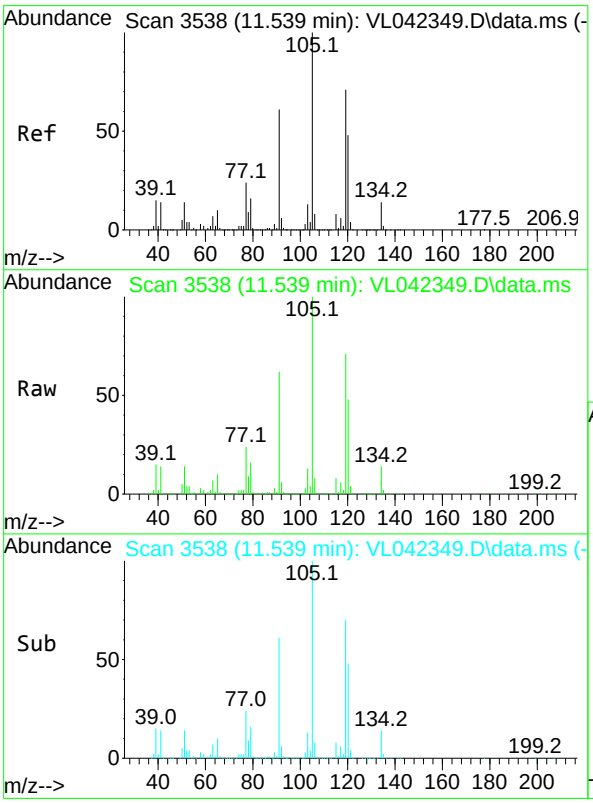
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.5 | 35.6 | 53.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

**Manual Integrations**
**APPROVED**

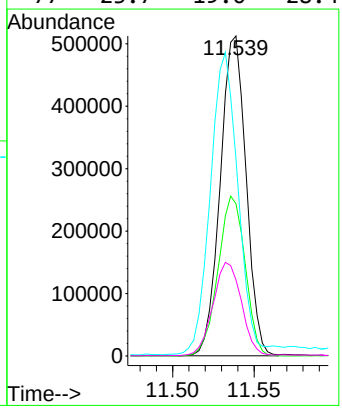
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

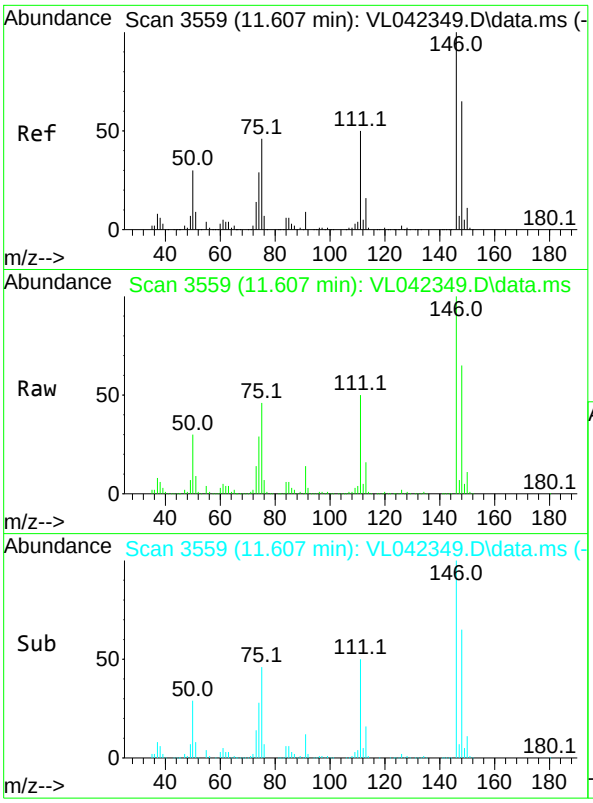



#74
1,2,4-Trimethylbenzene
Concen: 8.248 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:105 Resp: 565064

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.6 | 38.1 | 57.1 |
| 91 | 61.0 | 48.8 | 73.2 |
| 77 | 23.7 | 19.0 | 28.4 |

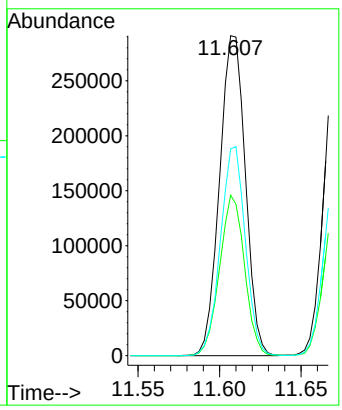





#75
1,3-Dichlorobenzene
Concen: 8.997 ppbv
RT: 11.607 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:146 Resp: 32038

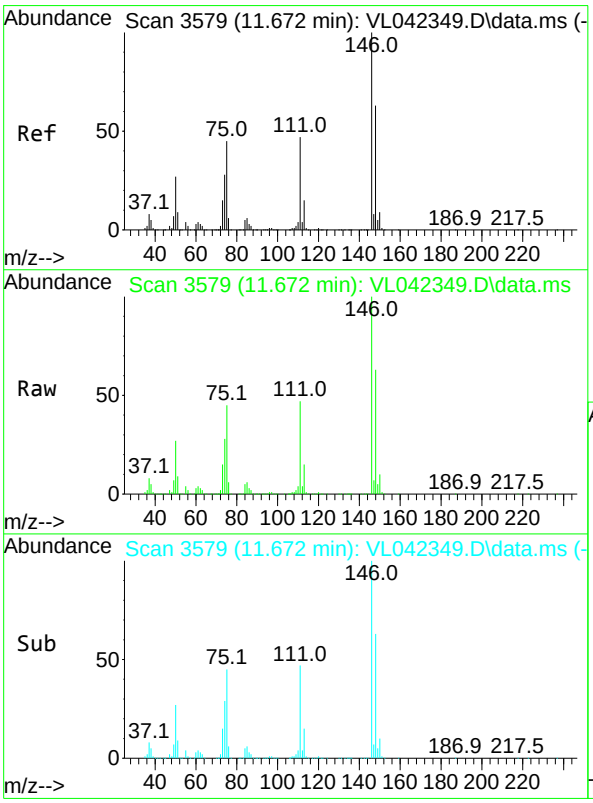
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 48.5 | 24.3 | 72.8 |
| 148 | 63.2 | 31.6 | 94.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

**Manual Integrations**
**APPROVED**

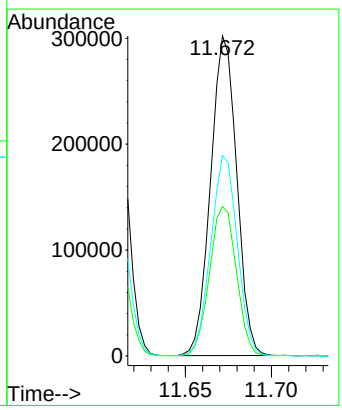
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

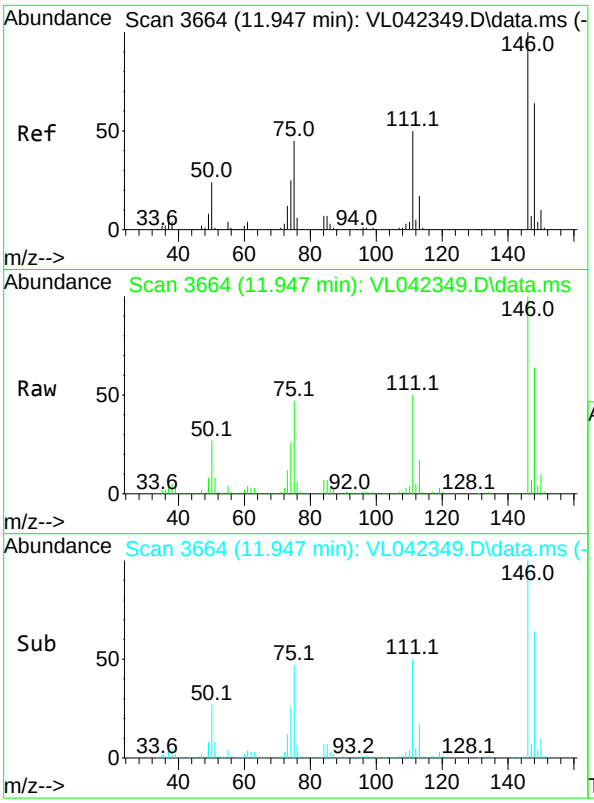



#76
1,4-Dichlorobenzene
Concen: 8.915 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:146 Resp: 319089

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 48.4 | 24.2 | 72.6 |
| 148 | 64.3 | 32.1 | 96.5 |

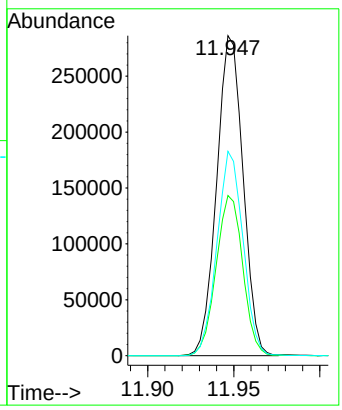





#77
1,2-Dichlorobenzene
Concen: 8.832 ppbv
RT: 11.947 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:146 Resp: 30582

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 50.6 | 25.3 | 75.9 |
| 148 | 63.0 | 31.5 | 94.5 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

**Manual Integrations**
**APPROVED**

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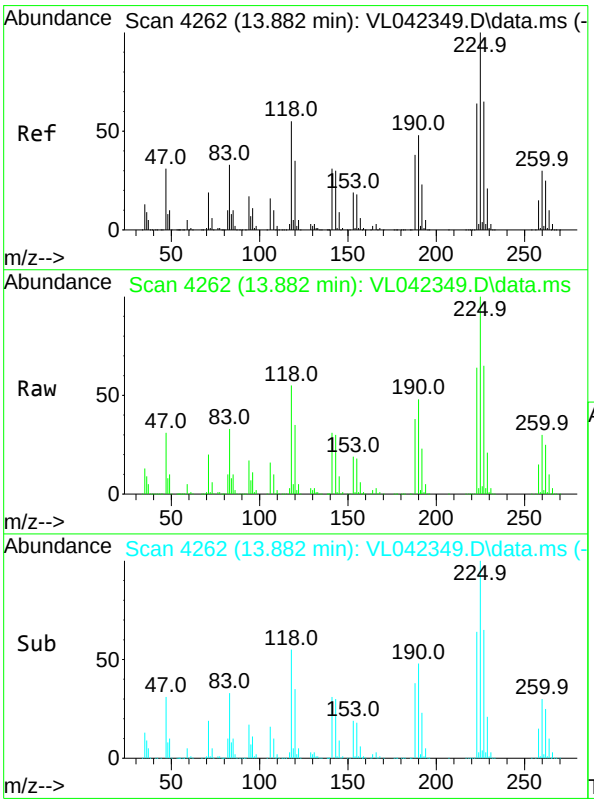
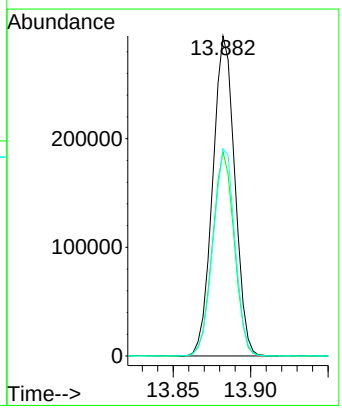
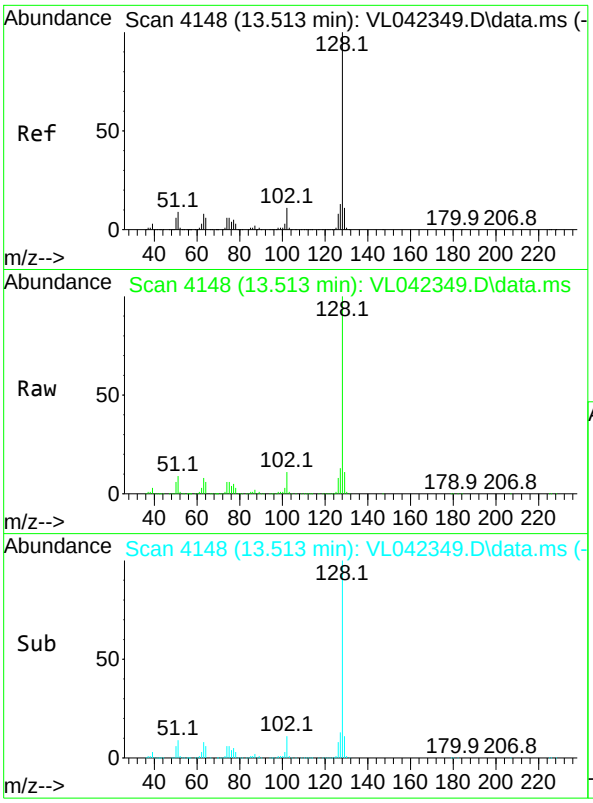



#78
Hexachloro-1,3-Butadiene
Concen: 8.346 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:225 Resp: 291833

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.9 | 50.3 | 75.5 |
| 227 | 64.4 | 51.5 | 77.3 |

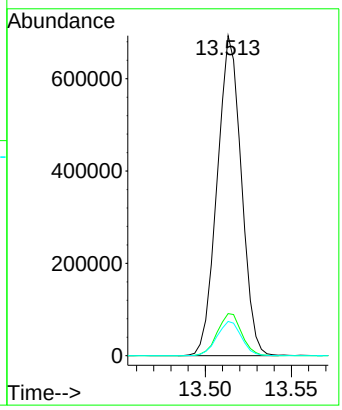





#79
Naphthalene
Concen: 8.271 ppbv
RT: 13.513 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:128 Resp: 67757

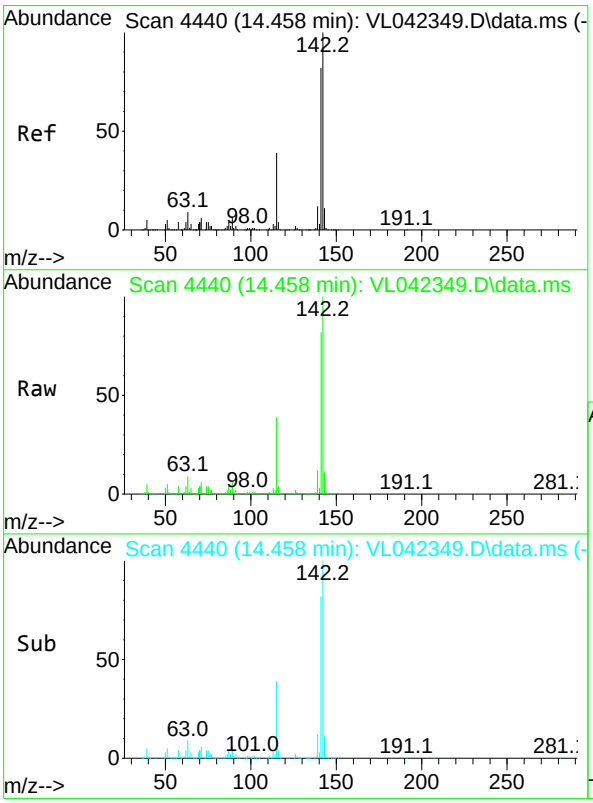
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.2 | 10.6 | 15.8 |
| 129 | 10.7 | 8.6 | 12.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

**Manual Integrations**
**APPROVED**

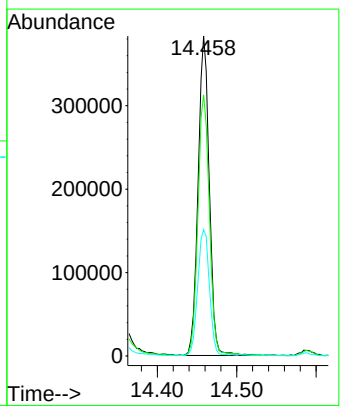
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

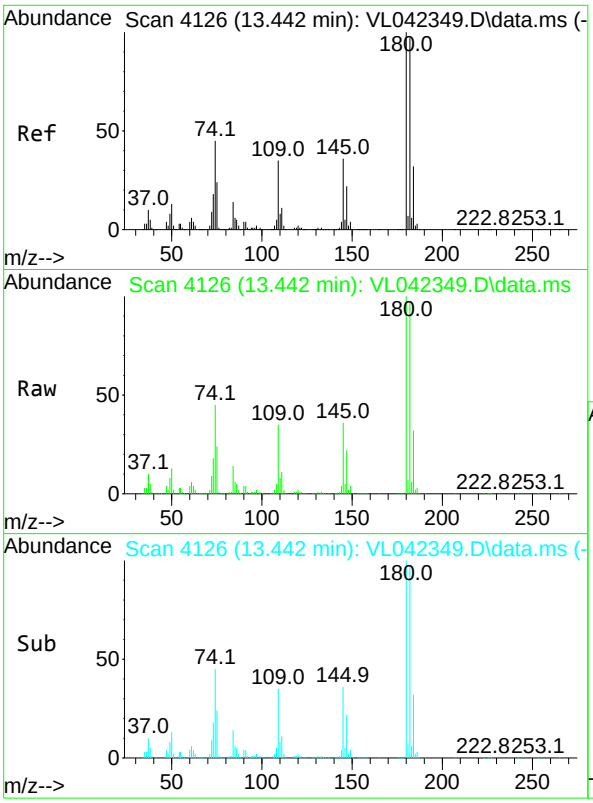



#80
Naphthalene,2-methyl-
Concen: 8.074 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:142 Resp: 376995

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 83.5 | 66.8 | 100.2 |
| 115 | 41.8 | 33.4 | 50.2 |

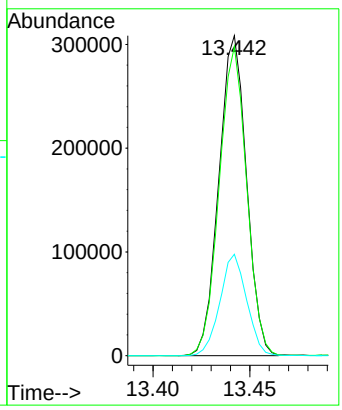





#81
1,2,4-Trichlorobenzene
Concen: 8.702 ppbv
RT: 13.442 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:180 Resp: 30611

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.0 | 76.8 | 115.2 |
| 184 | 30.7 | 24.6 | 36.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042350.D
Acq On : 17 Apr 2025 10:17
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 18 01:26:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) Bromochloromethane | 2.787 | 49 | 123206 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.959 | 114 | 355918 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.881 | 117 | 335603 | 10.000 | ppbv | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95 | 275715 | 9.998 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 100.000% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.499 | 85 | 45008 | 2.068 | ppbv | | 95 |
| 3) Chlorodifluoromethane | 1.476 | 51 | 41853 | 2.019 | ppbv | | 97 |
| 4) Chloromethane | 1.534 | 50 | 17272 | 2.005 | ppbv | | 93 |
| 5) Vinyl Chloride | 1.580 | 62 | 16979 | 1.811 | ppbv | | 92 |
| 6) Bromomethane | 1.667 | 94 | 7398 | 1.821 | ppbv | # | 80 |
| 7) Chloroethane | 1.706 | 64 | 6889 | 2.031 | ppbv | | 98 |
| 8) Dichlorotetrafluoroethane | 1.554 | 85 | 38955 | 2.084 | ppbv | | 98 |
| 9) Propene | 1.483 | 41 | 18671 | 1.978 | ppbv | | 97 |
| 10) Heptane | 4.978 | 43 | 54438m | 2.143 | ppbv | | |
| 11) Trichlorofluoromethane | 1.877 | 101 | 43035 | 2.079 | ppbv | | 99 |
| 12) 1,1,2-Trichlorotrifluo... | 2.140 | 101 | 35415 | 2.092 | ppbv | | 100 |
| 13) Ethanol | 1.722 | 45 | 3034m | 3.933 | ppbv | | |
| 14) Bromoethene | 1.780 | 108 | 13049 | 2.045 | ppbv | # | 92 |
| 15) Acetone | 1.835 | 43 | 42949 | 2.129 | ppbv | | 93 |
| 16) 1,3-Butadiene | 1.609 | 39 | 18110 | 1.912 | ppbv | | 96 |
| 17) tert-Butyl alcohol | 2.042 | 59 | 51829 | 2.074 | ppbv | # | 94 |
| 18) 1,1-Dichloroethene | 2.036 | 96 | 15690 | 1.928 | ppbv | | 87 |
| 19) Isopropyl Alcohol | 1.887 | 45 | 22106 | 1.973 | ppbv | # | 38 |
| 20) Methylene Chloride | 2.062 | 84 | 14329 | 1.814 | ppbv | # | 82 |
| 21) Allyl Chloride | 2.098 | 41 | 27340 | 1.963 | ppbv | | 95 |
| 22) trans-1,2-Dichloroethene | 2.340 | 96 | 18142 | 2.015 | ppbv | | 97 |
| 23) Vinyl Acetate | 2.463 | 43 | 18454 | 2.260 | ppbv | # | 91 |
| 24) 1,1-Dichloroethane | 2.411 | 63 | 34077 | 1.993 | ppbv | | 96 |
| 25) Ethyl Acetate | 2.835 | 43 | 101467 | 2.040 | ppbv | | 99 |
| 26) Hexane | 2.826 | 57 | 40046 | 1.990 | ppbv | | 99 |
| 27) Carbon Disulfide | 2.149 | 76 | 43975 | 2.041 | ppbv | # | 64 |
| 28) Methyl tert-Butyl Ether | 2.441 | 73 | 27905 | 2.116 | ppbv | | 97 |
| 29) Chloroform | 2.848 | 83 | 58946 | 2.072 | ppbv | | 100 |
| 30) Cyclohexane | 3.858 | 84 | 33195 | 2.048 | ppbv | | 94 |
| 31) cis-1,2-Dichloroethene | 2.722 | 61 | 39249 | 2.051 | ppbv | | 98 |
| 32) 1,1,1-Trichloroethane | 3.366 | 97 | 61442 | 2.014 | ppbv | | 99 |
| 34) 2-Butanone | 2.560 | 43 | 58249 | 2.069 | ppbv | | 100 |
| 35) Carbon Tetrachloride | 3.761 | 117 | 60291 | 1.872 | ppbv | | 88 |
| 36) Benzene | 3.658 | 78 | 79814 | 2.079 | ppbv | | 98 |
| 37) 1,2-Dichloroethane | 3.217 | 62 | 47398 | 2.057 | ppbv | | 100 |
| 38) Trichloroethene | 4.544 | 130 | 31826m | 1.891 | ppbv | | |
| 39) 1,2-Dichloropropane | 4.315 | 63 | 28806 | 2.012 | ppbv | | 96 |
| 40) 1,4-Dioxane | 4.593 | 88 | 16536m | 2.133 | ppbv | | |
| 41) Tetrahydrofuran | 3.059 | 42 | 33298 | 2.047 | ppbv | | 98 |
| 42) Bromodichloromethane | 4.489 | 83 | 64941 | 2.025 | ppbv | | 97 |
| 43) Methyl Methacrylate | 4.881 | 69 | 35256 | 2.046 | ppbv | | 97 |
| 44) 2,2,4-Trimethylpentane | 4.645 | 57 | 139641 | 2.103 | ppbv | | 99 |
| 45) t-1,3-Dichloropropene | 6.415 | 75 | 36265 | 2.050 | ppbv | | 94 |

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042350.D
Acq On : 17 Apr 2025 10:17
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 18 01:26:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.600 | 75 | 45327m | 2.096 | ppbv | |
| 47) 1,1,2-Trichloroethane | 6.590 | 97 | 29879 | 2.049 | ppbv | 88 |
| 48) Dibromochloromethane | 7.389 | 129 | 53069 | 2.061 | ppbv | 100 |
| 49) Bromoform | 9.483 | 173 | 48069 | 2.135 | ppbv | 97 |
| 50) 4-Methyl-2-Pentanone | 5.758 | 43 | 102182 | 2.180 | ppbv | 99 |
| 51) 2-Hexanone | 7.441 | 43 | 100443 | 2.375 | ppbv | 98 |
| 52) Tetrachloroethene | 8.228 | 164 | 27854 | 1.877 | ppbv | 96 |
| 53) Toluene | 6.933 | 91 | 97493 | 2.116 | ppbv | 98 |
| 54) 1,2-Dibromoethane | 7.655 | 107 | 43153 | 2.076 | ppbv | 87 |
| 56) 1,1,1,2-Tetrachloroethane | 8.924 | 131 | 42601 | 2.097 | ppbv | 95 |
| 57) Chlorobenzene | 8.924 | 112 | 71685 | 2.054 | ppbv | 98 |
| 58) Ethyl Benzene | 9.357 | 91 | 138810 | 2.088 | ppbv | 98 |
| 59) m/p-Xylene | 9.532 | 91 | 222542m | 4.142 | ppbv | |
| 60) o-Xylene | 9.963 | 91 | 111972 | 2.076 | ppbv | 98 |
| 61) Styrene | 9.872 | 104 | 54229 | 2.106 | ppbv | 98 |
| 62) Isopropylbenzene | 10.539 | 105 | 163716 | 2.067 | ppbv | 100 |
| 63) 1,1,2,2-Tetrachloroethane | 9.963 | 83 | 64952 | 1.853 | ppbv | 99 |
| 64) n-propylbenzene | 10.989 | 120 | 40956 | 2.058 | ppbv | 96 |
| 65) tert-Butylbenzene | 11.532 | 119 | 155401 | 2.135 | ppbv | 92 |
| 66) Benzyl Chloride | 11.616 | 91 | 17300 | 2.163 | ppbv | 98 |
| 67) sec-Butylbenzene | 11.769 | 105 | 218327 | 2.156 | ppbv | 100 |
| 69) p-Isopropyltoluene | 11.927 | 119 | 188657 | 2.145 | ppbv | 99 |
| 70) n-Butylbenzene | 12.283 | 91 | 198221 | 2.164 | ppbv | 99 |
| 71) 2-Chlorotoluene | 10.901 | 91 | 128858 | 2.075 | ppbv | 98 |
| 72) 4-Ethyltoluene | 11.124 | 105 | 137872 | 2.091 | ppbv | 97 |
| 73) 1,3,5-Trimethylbenzene | 11.205 | 105 | 123580 | 2.123 | ppbv | 98 |
| 74) 1,2,4-Trimethylbenzene | 11.539 | 105 | 145510 | 2.140 | ppbv | 92 |
| 75) 1,3-Dichlorobenzene | 11.607 | 146 | 75082 | 2.124 | ppbv | 98 |
| 76) 1,4-Dichlorobenzene | 11.671 | 146 | 75323 | 2.120 | ppbv | 99 |
| 77) 1,2-Dichlorobenzene | 11.947 | 146 | 74786 | 2.176 | ppbv | 98 |
| 78) Hexachloro-1,3-Butadiene | 13.882 | 225 | 76158 | 2.194 | ppbv | 100 |
| 79) Naphthalene | 13.513 | 128 | 195233 | 2.401 | ppbv | 99 |
| 80) Naphthalene,2-methyl- | 14.458 | 142 | 119262 | 2.574 | ppbv | 99 |
| 81) 1,2,4-Trichlorobenzene | 13.442 | 180 | 82156 | 2.353 | ppbv | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042350.D
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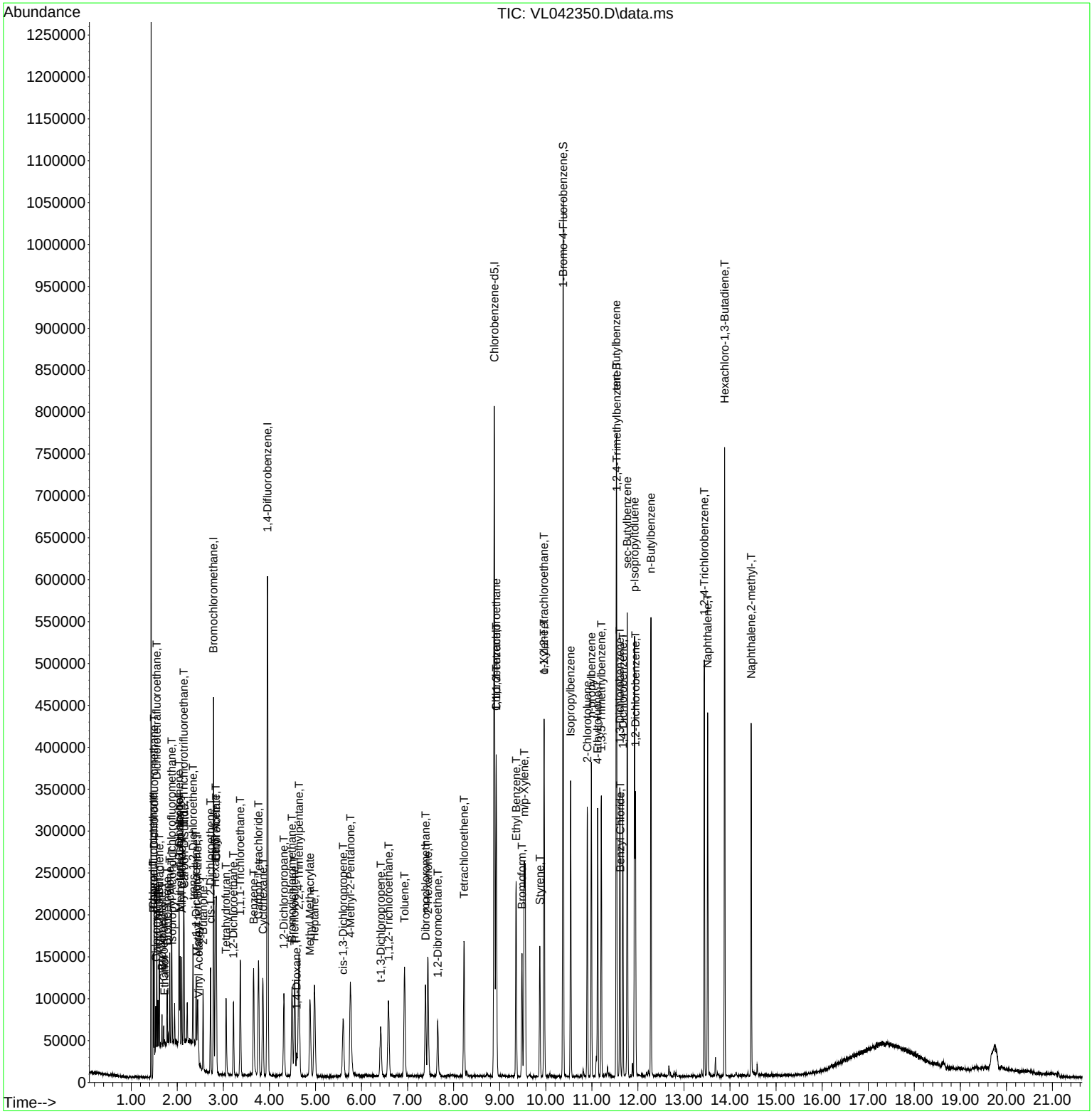
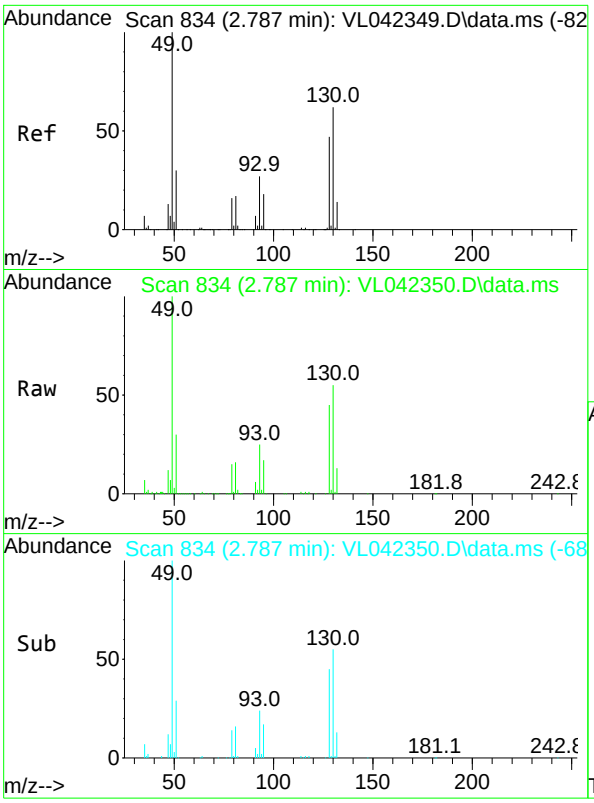
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 18 01:26:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

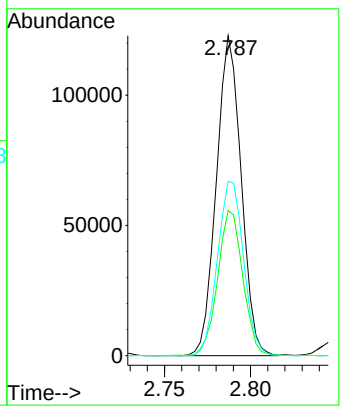





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 49 Resp: 12320

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 46.2 | 22.8 | 68.4 |
| 130 | 57.3 | 29.3 | 88.0 |

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**ClientSampleId :**
VSTDICC002

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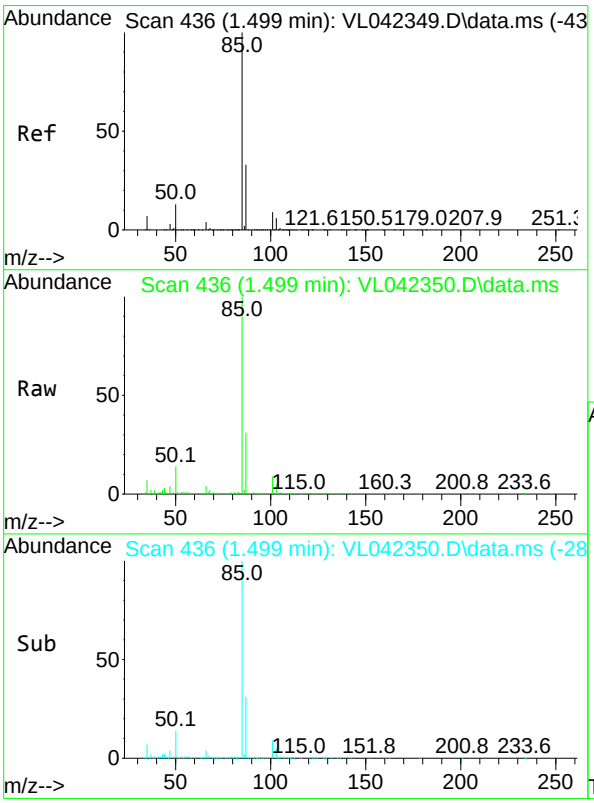
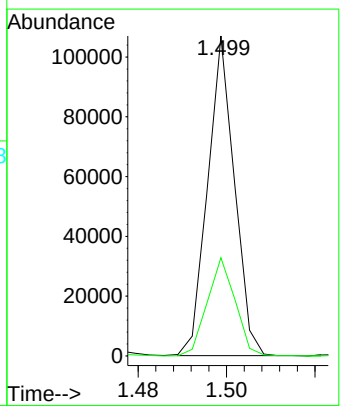
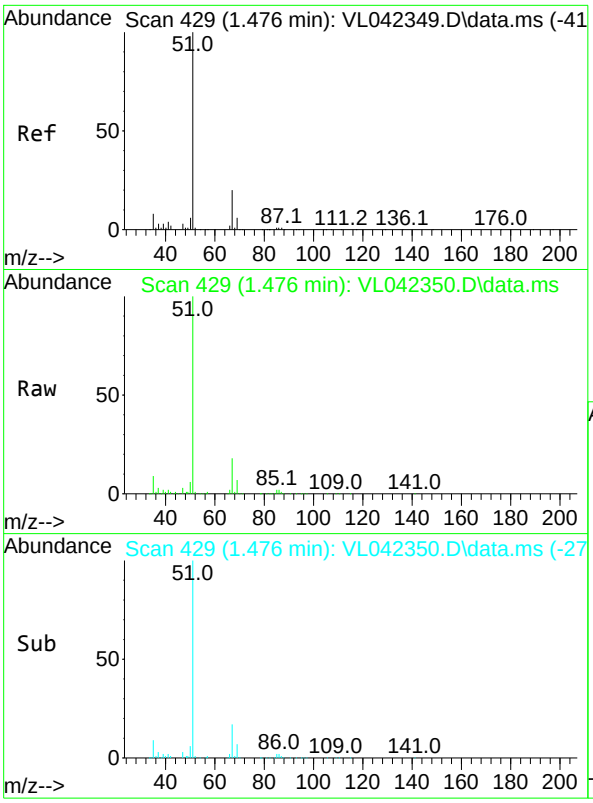



#2
Dichlorodifluoromethane
Concen: 2.068 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 85 Resp: 45008

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 30.6 | 26.6 | 39.8 |

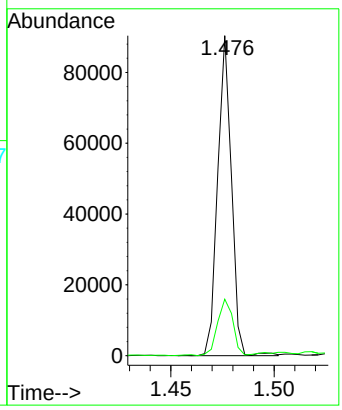





#3
Chlorodifluoromethane
Concen: 2.019 ppbv
RT: 1.476 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 51 Resp: 4185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 21.7 | 16.2 | 24.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

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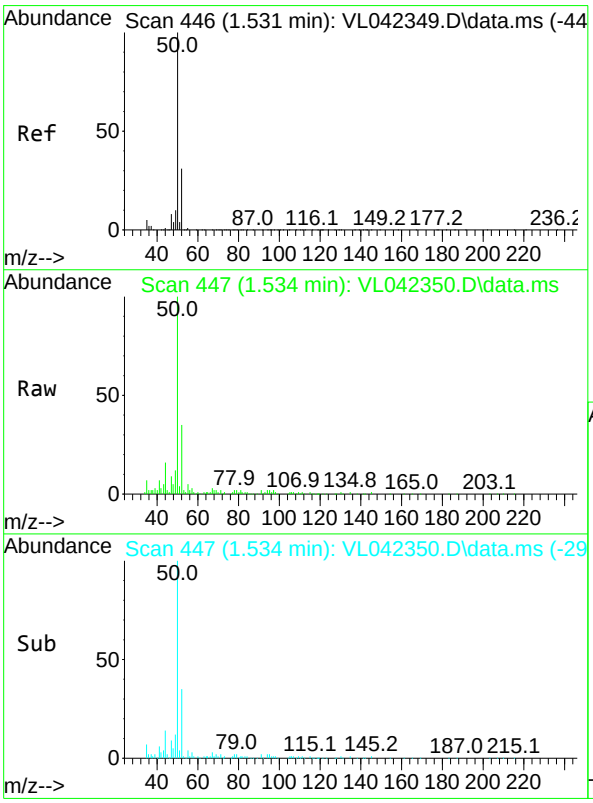
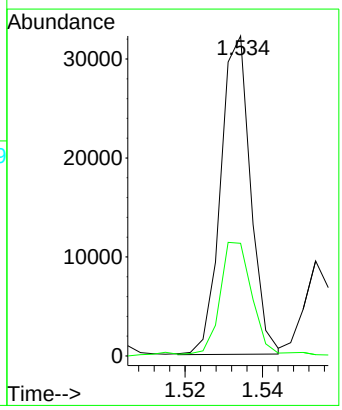
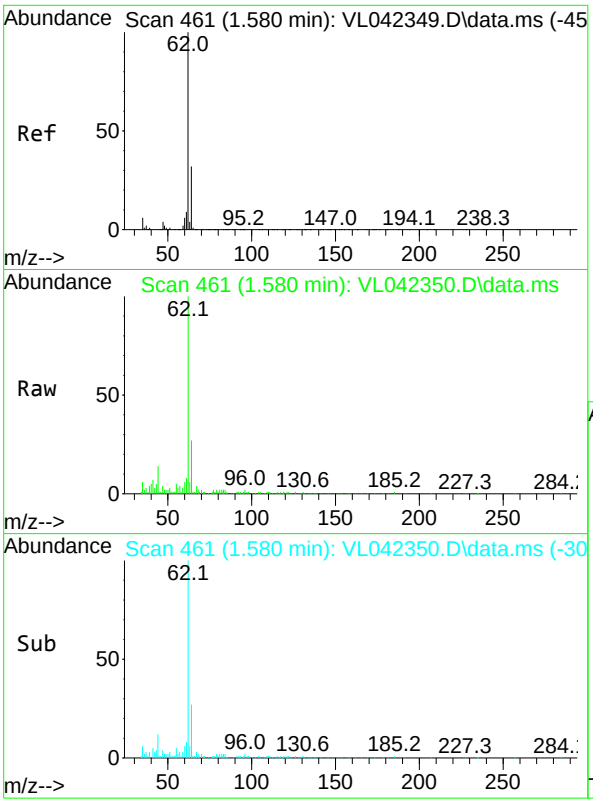



#4
Chloromethane
Concen: 2.005 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 50 Resp: 17272

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 34.9 | 24.7 | 37.1 |

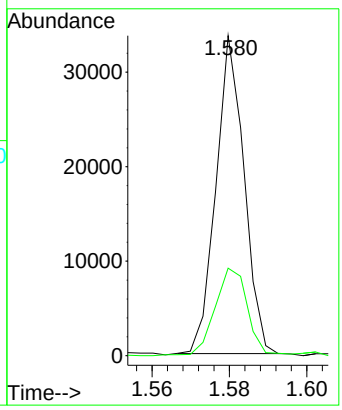





#5
Vinyl Chloride
Concen: 1.811 ppbv
RT: 1.580 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 62 Resp: 1697

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 27.2 | 25.4 | 38.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

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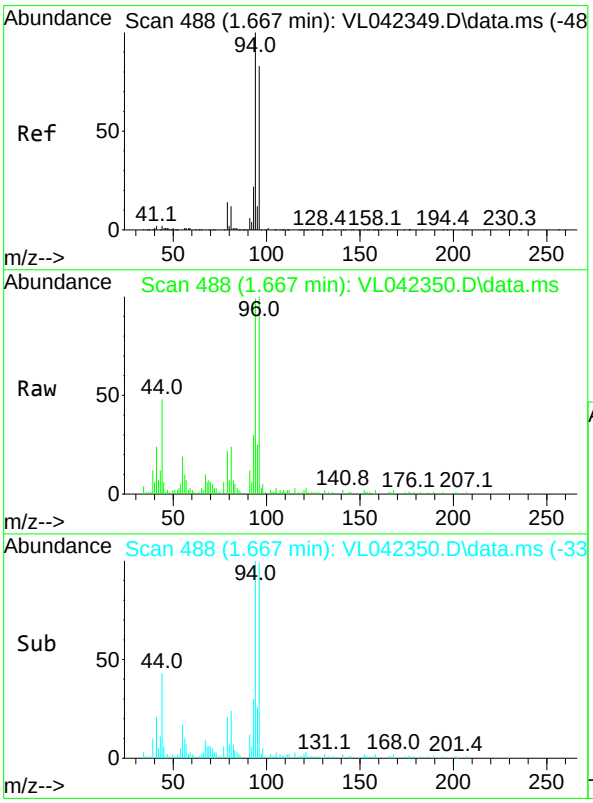
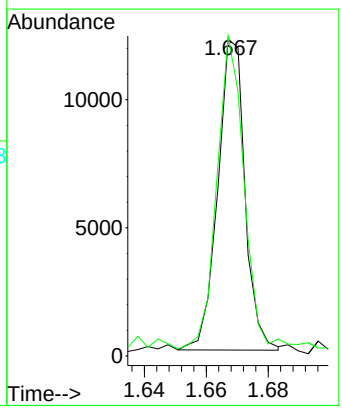
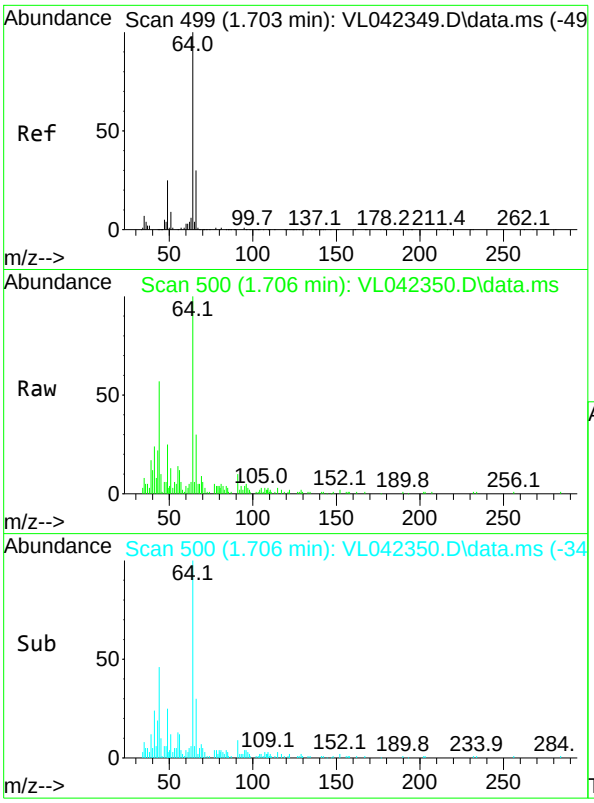



#6
Bromomethane
Concen: 1.821 ppbv
RT: 1.667 min Scan# 488
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 94 Resp: 7398

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 100.8 | 66.2 | 99.2# |

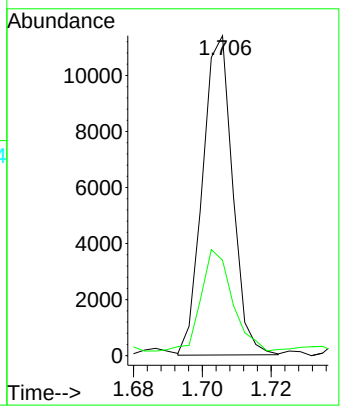





#7
Chloroethane
Concen: 2.031 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 64 Resp: 688

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 29.8 | 24.6 | 37.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

**Manual Integrations**
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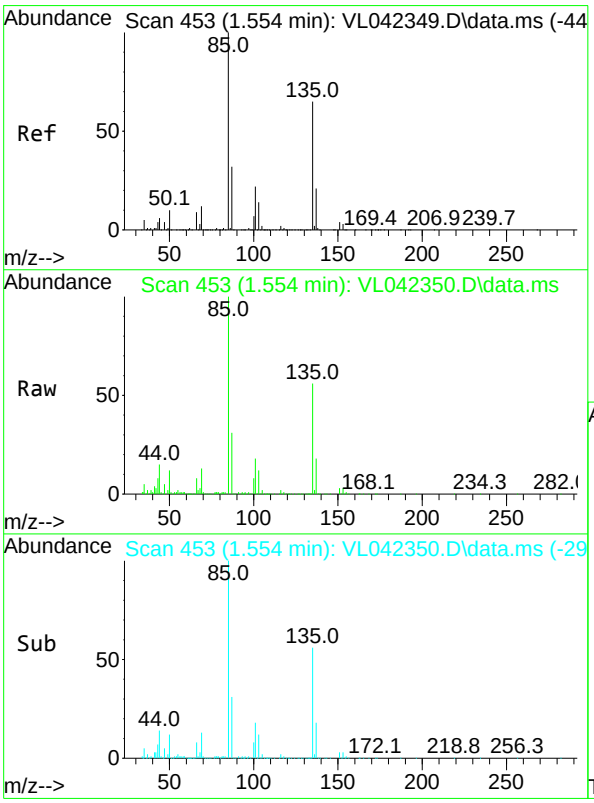
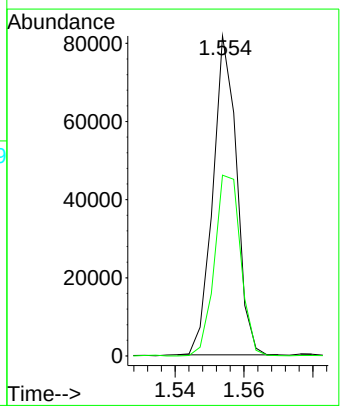
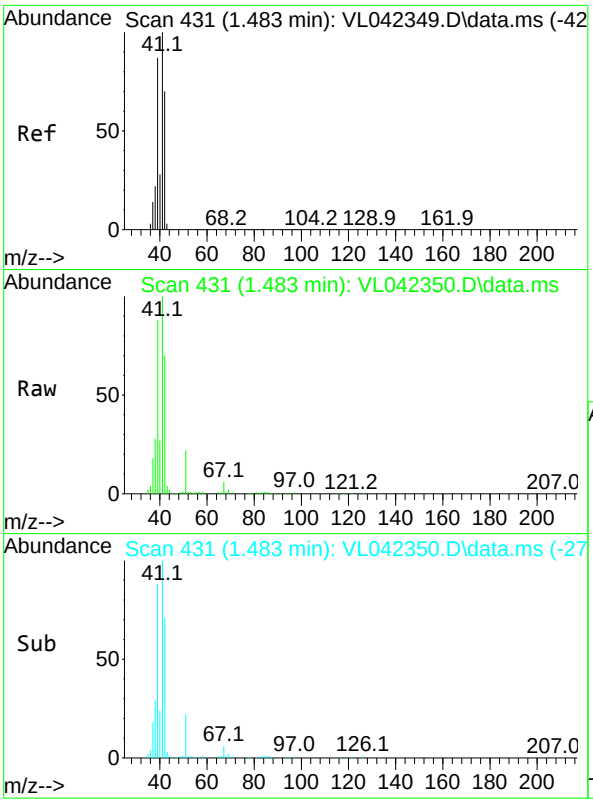



#8
Dichlorotetrafluoroethane
Concen: 2.084 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 85 Resp: 38955

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 63.3 | 52.2 | 78.2 |

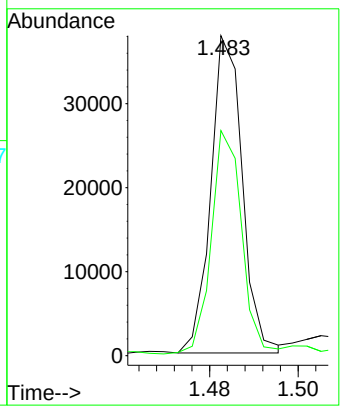





#9
Propene
Concen: 1.978 ppbv
RT: 1.483 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 41 Resp: 1867

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 72.7 | 56.2 | 84.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

**Manual Integrations**
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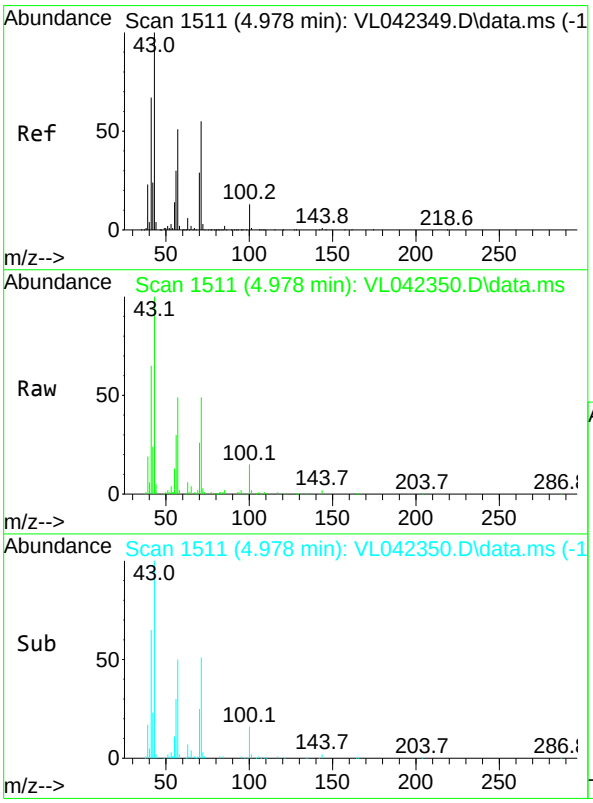
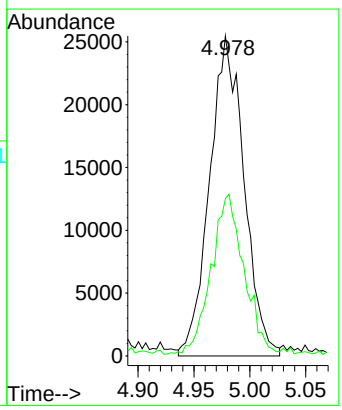
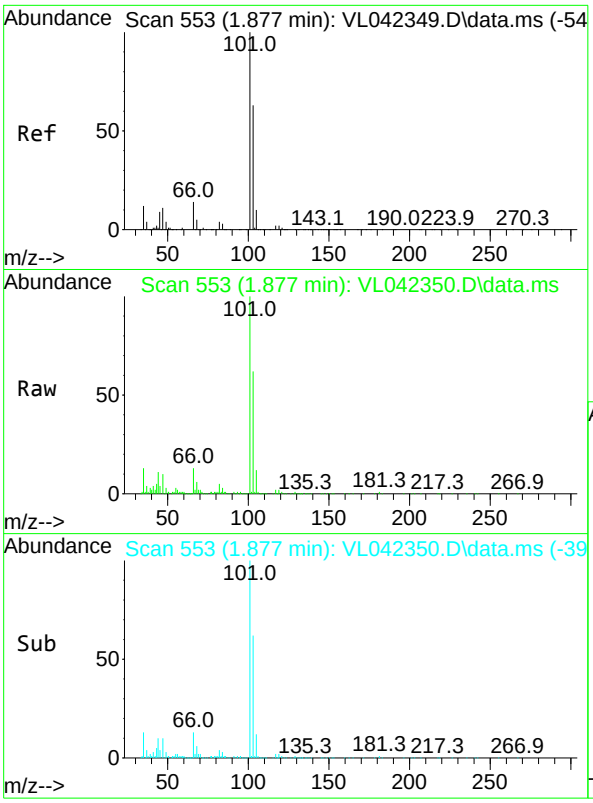



#10
Heptane
Concen: 2.143 ppbv m
RT: 4.978 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 43 Resp: 54438

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 48.3 | 39.9 | 59.9 |

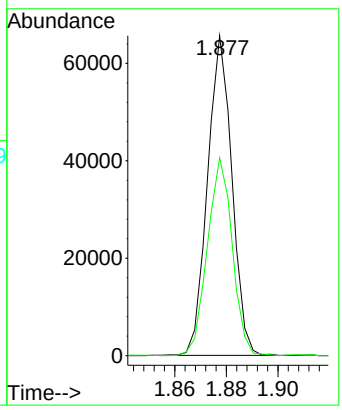





#11
Trichlorofluoromethane
Concen: 2.079 ppbv
RT: 1.877 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:101 Resp: 4303

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 61.9 | 50.1 | 75.1 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

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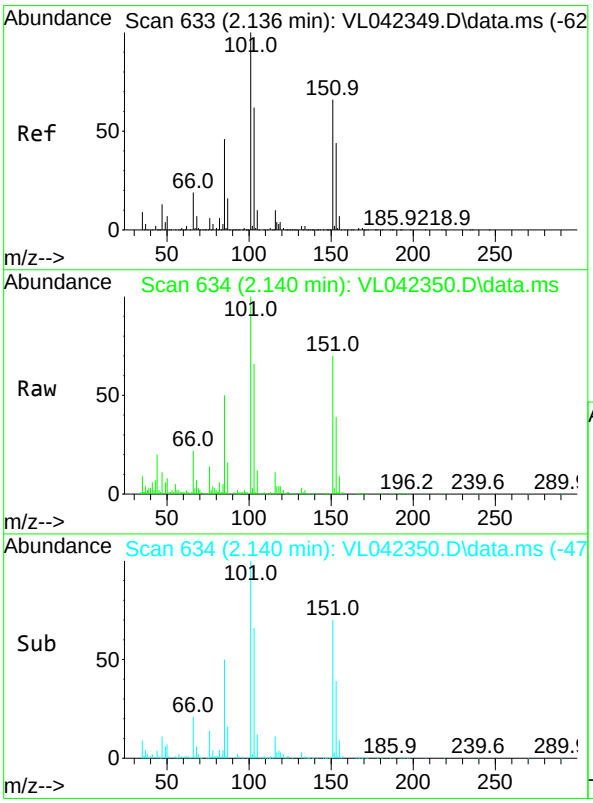
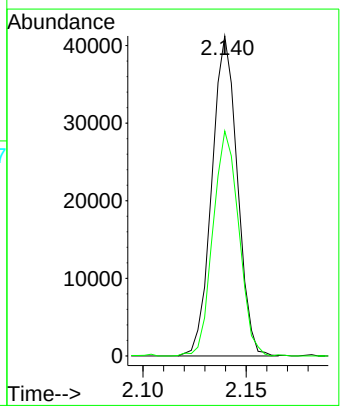
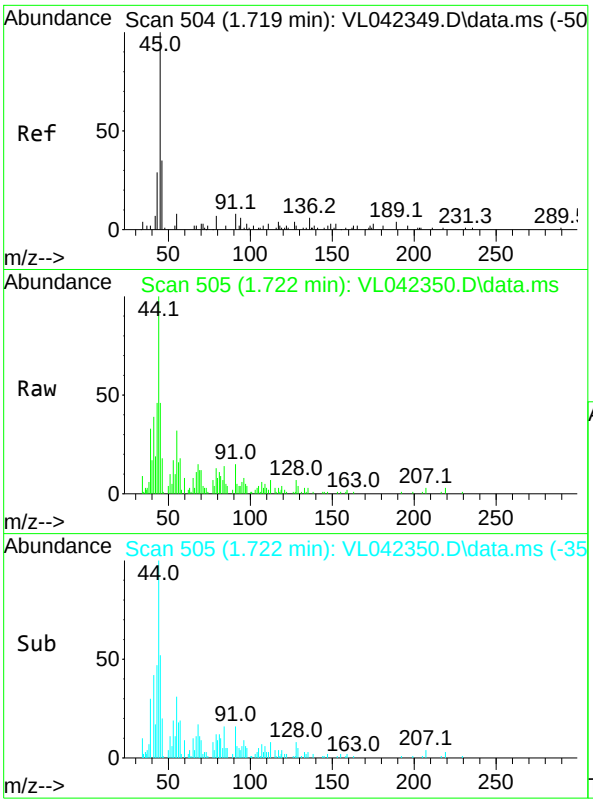



#12
1,1,2-Trichlorotrifluoroethane
Concen: 2.092 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:101 Resp: 35415

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 71.5 | 57.0 | 85.6 |

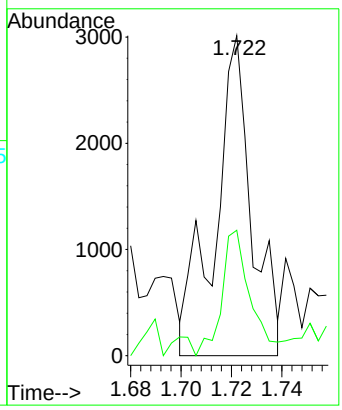





#13
Ethanol
Concen: 3.933 ppbv m
RT: 1.722 min Scan# 5(
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 45 Resp: 303

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 39.3 | 21.9 | 87.7 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

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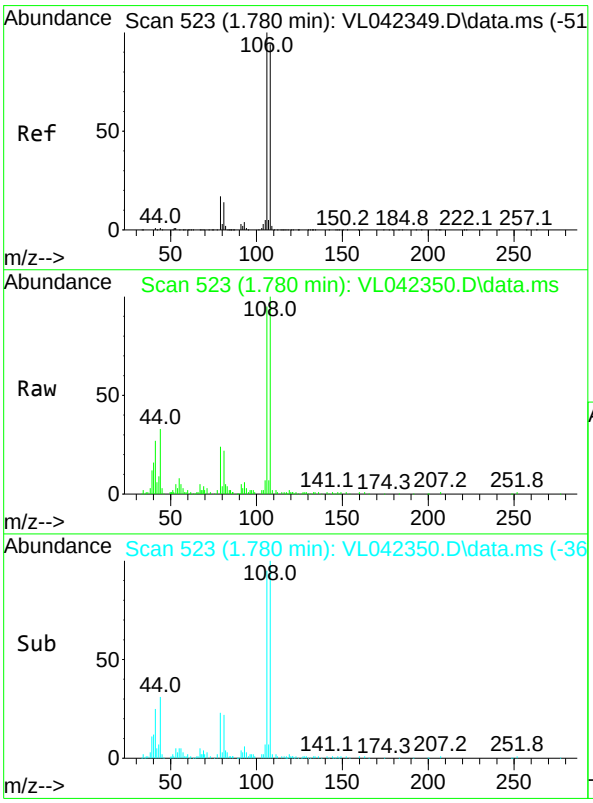
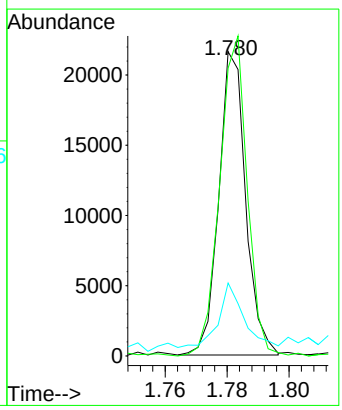
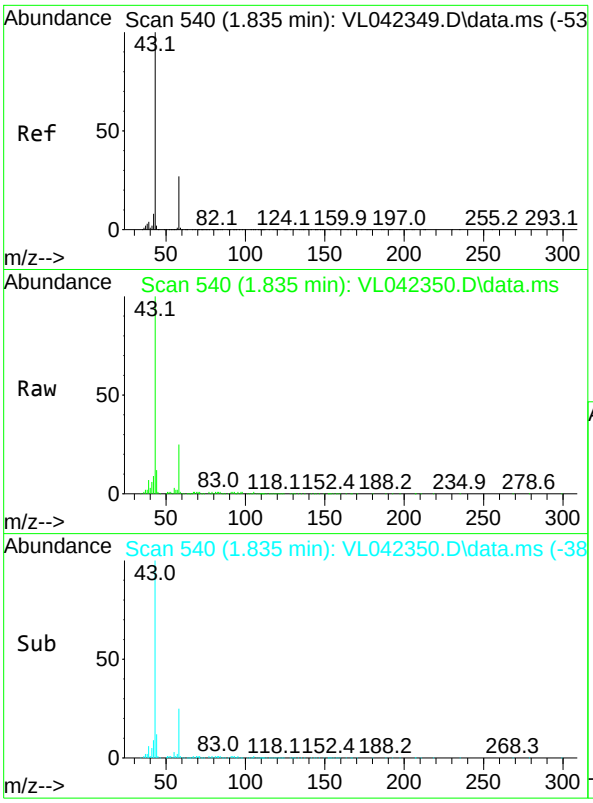



#14
Bromoethene
Concen: 2.045 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:108 Resp: 13049

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 106 | 110.2 | 85.9 | 128.9 |
| 79 | 34.0 | 13.9 | 20.9# |

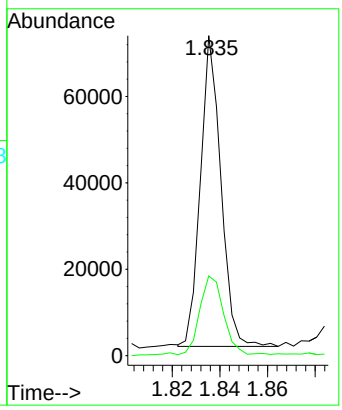





#15
Acetone
Concen: 2.129 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 43 Resp: 4294

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 31.4 | 22.4 | 33.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

**Manual Integrations**
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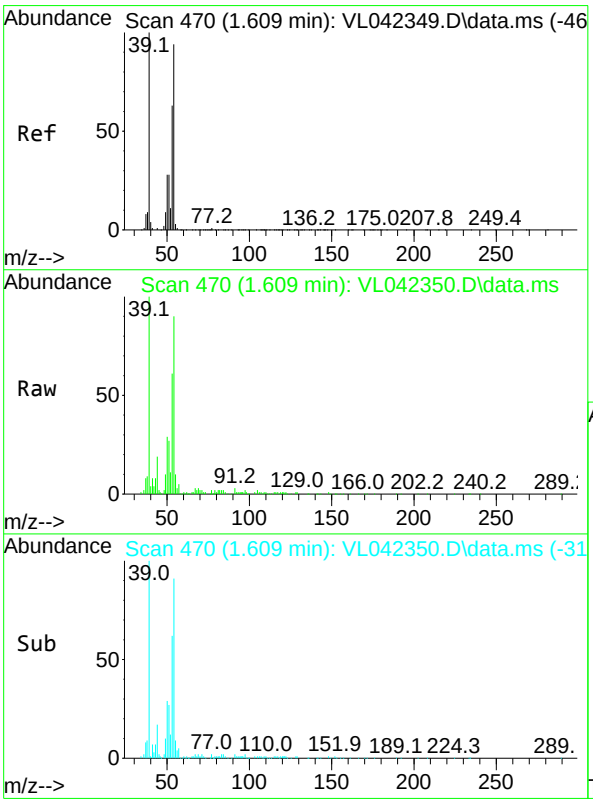
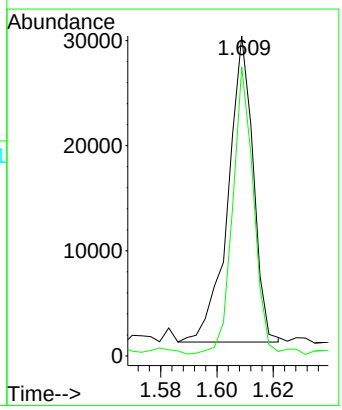
Supervised By :Mahesh Dadoda 04/18/2025

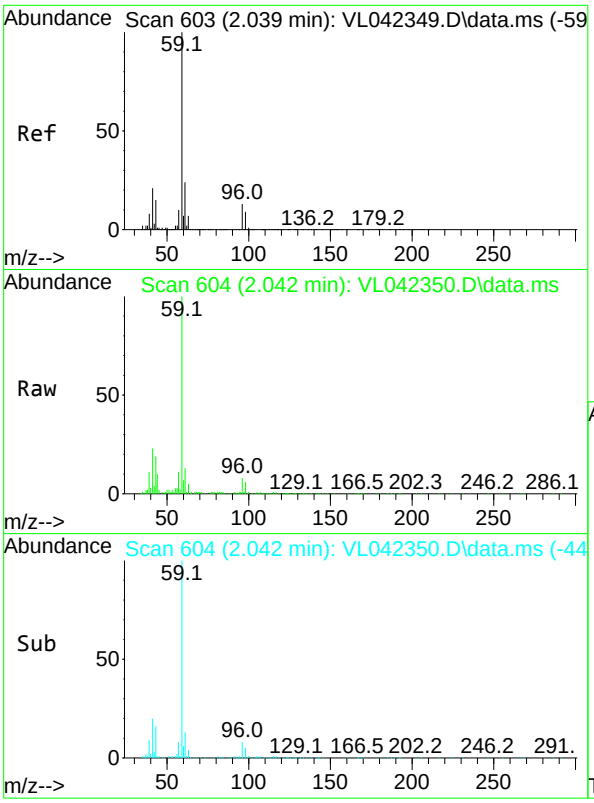



#16
1,3-Butadiene
Concen: 1.912 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 39 Resp: 18110

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 77.2 | 64.9 | 97.3 |

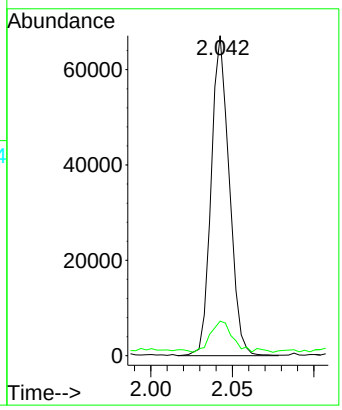





#17
tert-Butyl alcohol
Concen: 2.074 ppbv
RT: 2.042 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 59 Resp: 5182

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 13.2 | 8.7 | 13.1 |

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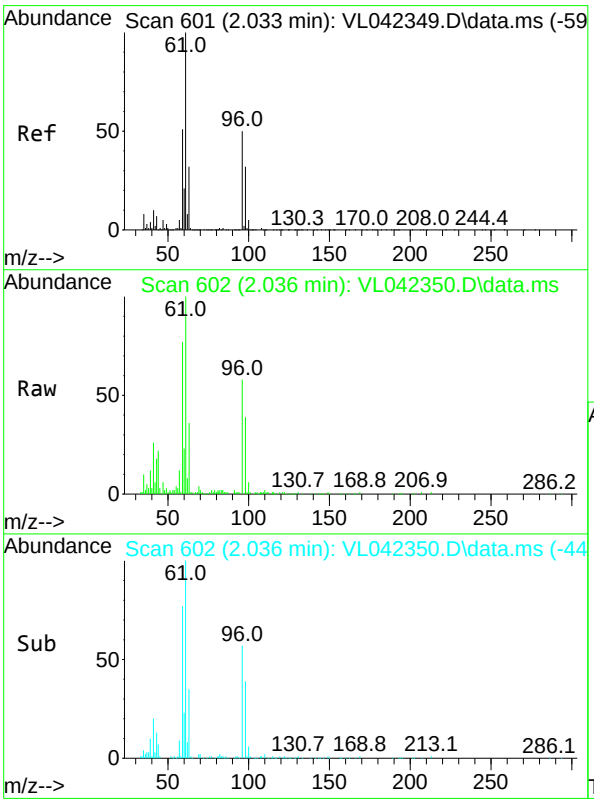
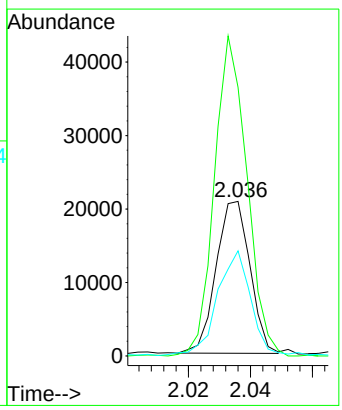
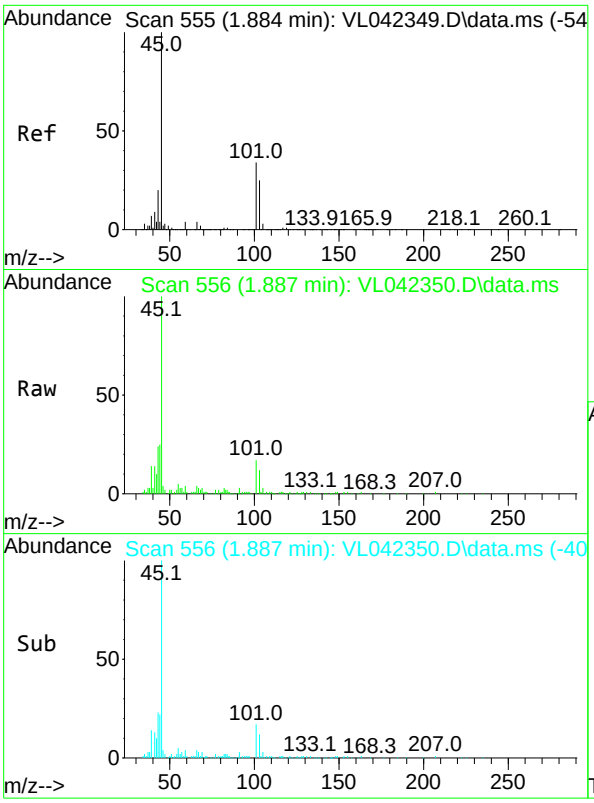



#18
1,1-Dichloroethene
Concen: 1.928 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 96 Resp: 15690

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 176.1 | 160.2 | 240.2 |
| 98 | 67.2 | 51.0 | 76.4 |






#19
Isopropyl Alcohol
Concen: 1.973 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 45 Resp: 2210

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 3.6 | 34.5 | 51.7# |

**Instrument :**
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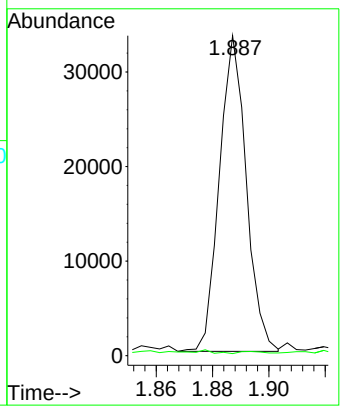
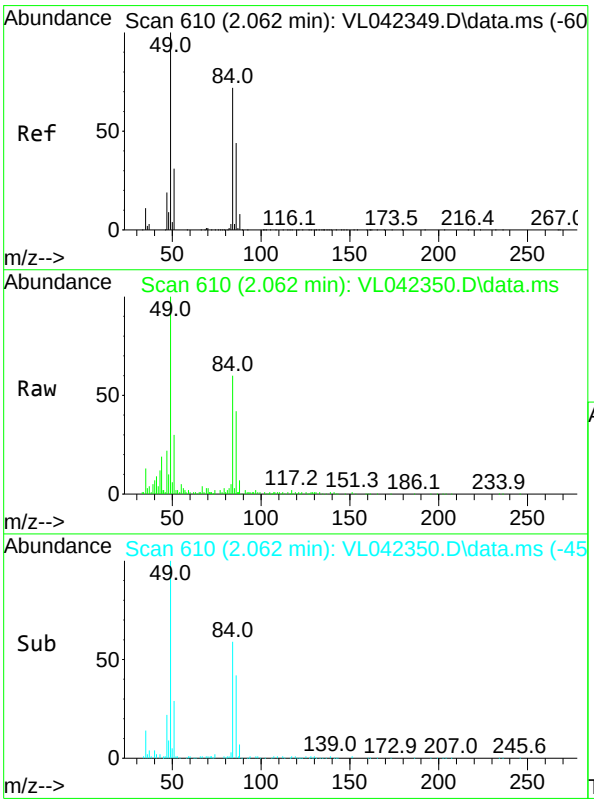
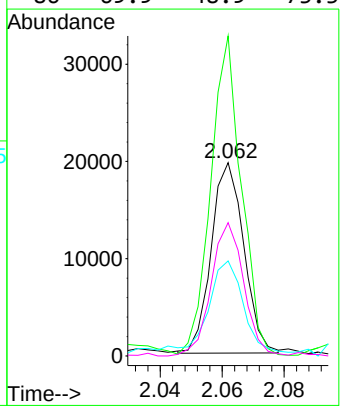


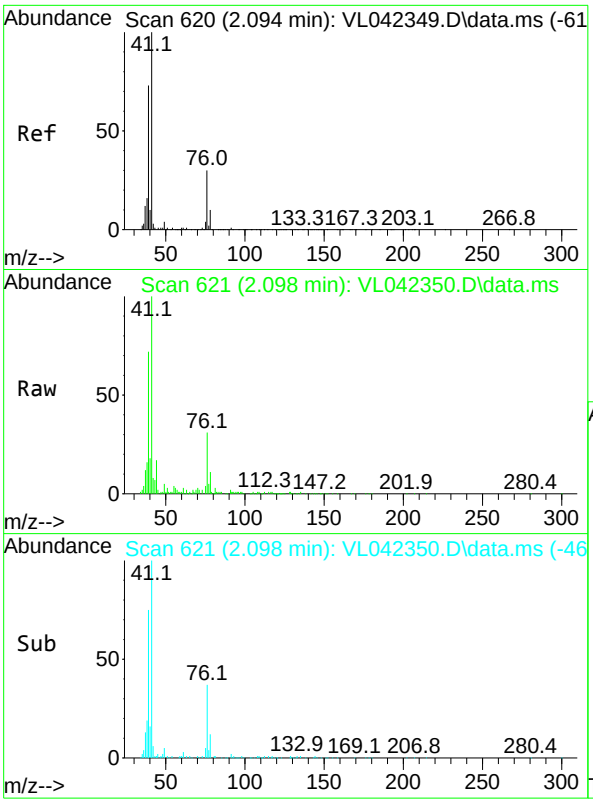




#20
Methylene Chloride
Concen: 1.814 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 84 Resp: 14329

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 169.1 | 111.6 | 167.4# |
| 51 | 47.9 | 35.1 | 52.7 |
| 86 | 69.9 | 48.9 | 73.3 |

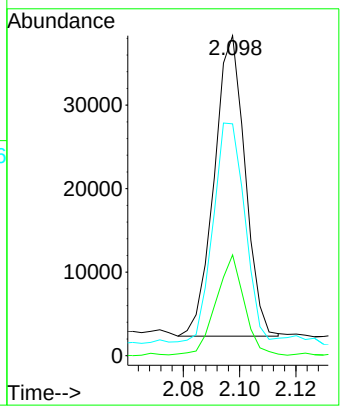





#21
Allyl Chloride
Concen: 1.963 ppbv
RT: 2.098 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 41 Resp: 2734

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 31.9 | 24.8 | 37.2 |
| 39 | 81.2 | 60.6 | 90.8 |




**Instrument :**
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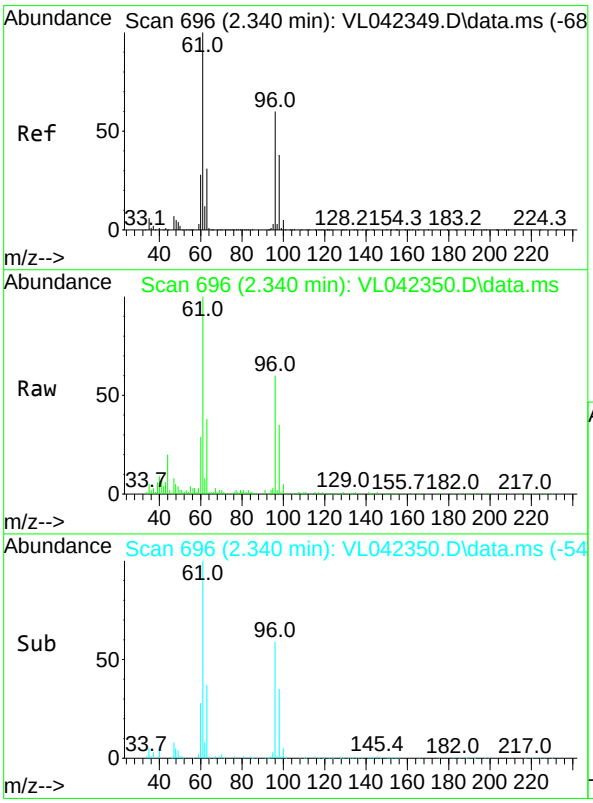
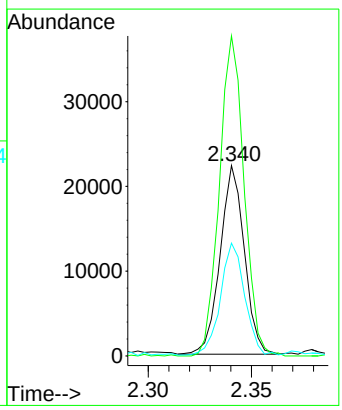
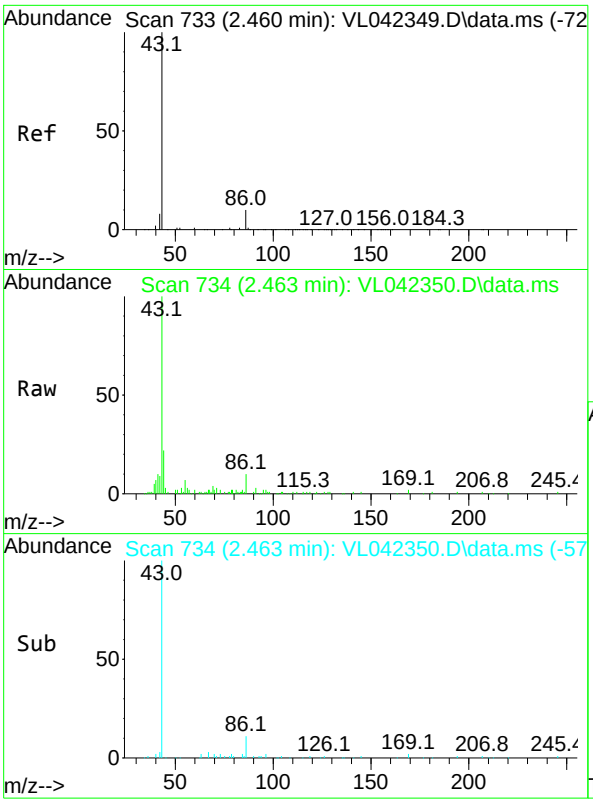



#22
trans-1,2-Dichloroethene
Concen: 2.015 ppbv
RT: 2.340 min Scan# 696
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 96 Resp: 18142

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 169.6 | 133.7 | 200.5 |
| 98 | 59.3 | 50.3 | 75.5 |

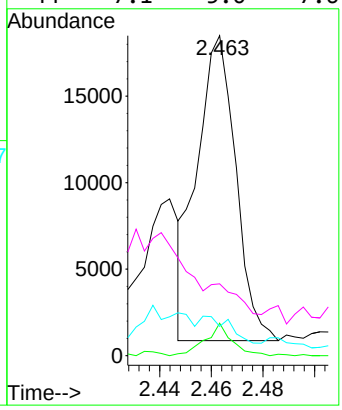





#23
Vinyl Acetate
Concen: 2.260 ppbv
RT: 2.463 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 43 Resp: 1845

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.2 | 6.5 | 9.7# |
| 42 | 3.7 | 7.8 | 11.8# |
| 44 | 7.1 | 5.0 | 7.6 |

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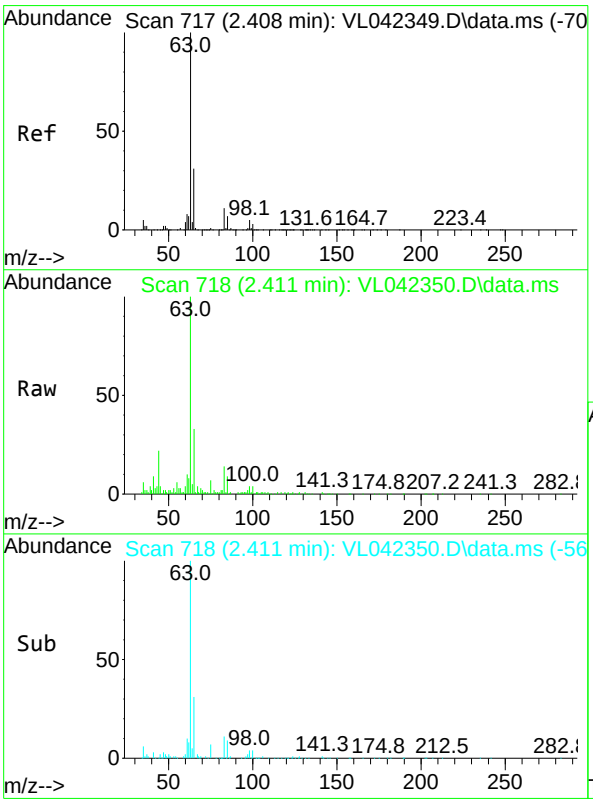
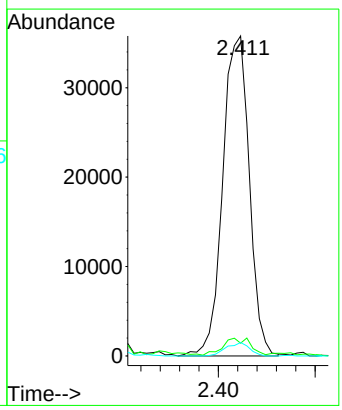
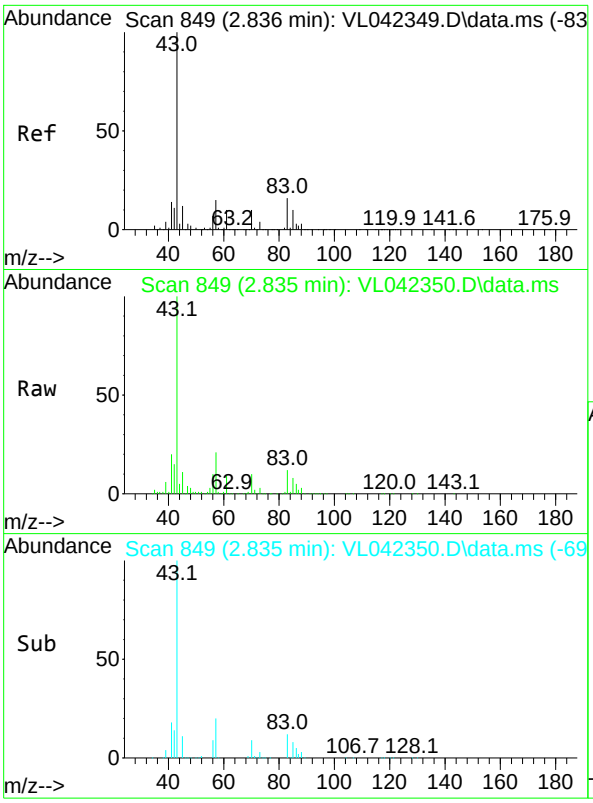



#24
1,1-Dichloroethane
Concen: 1.993 ppbv
RT: 2.411 min Scan# 718
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 63 Resp: 34077

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 3.1 | 2.3 | 6.8 |
| 100 | 4.2 | 1.6 | 4.8 |

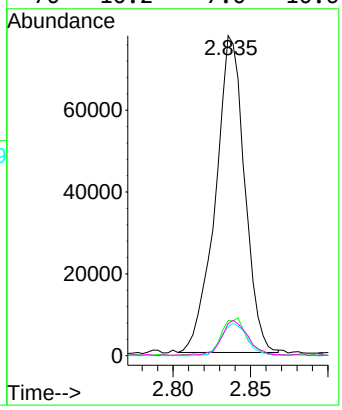





#25
Ethyl Acetate
Concen: 2.040 ppbv
RT: 2.835 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 43 Resp: 10146

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 10.4 | 8.3 | 12.5 |
| 61 | 9.2 | 7.3 | 10.9 |
| 70 | 10.2 | 7.0 | 10.6 |




**Instrument :**
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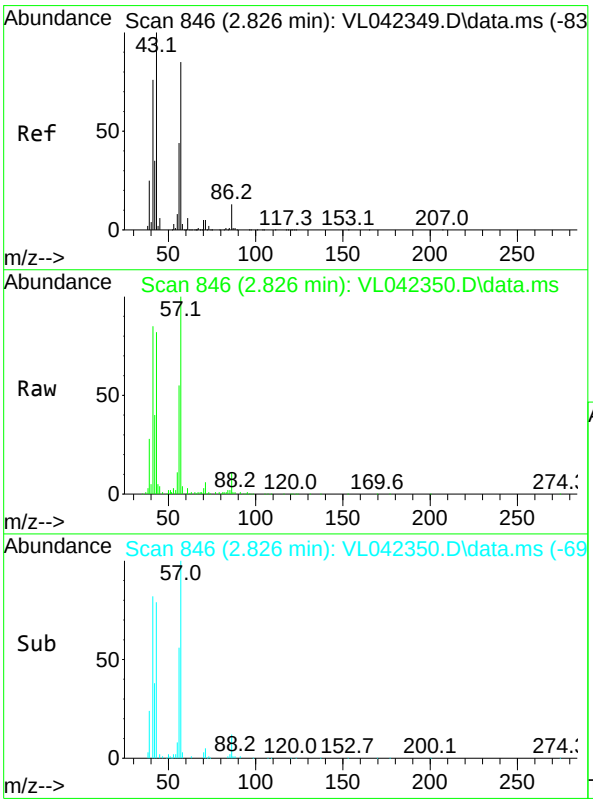
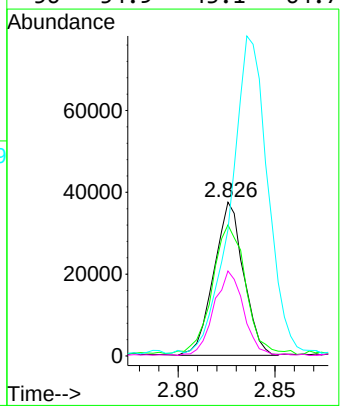
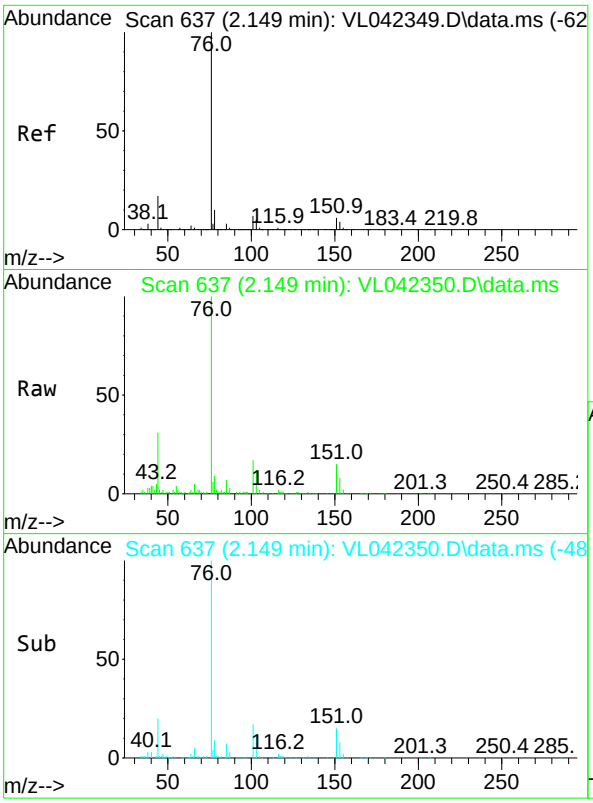



#26
Hexane
Concen: 1.990 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 57 Resp: 40046

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 94.1 | 77.9 | 116.9 |
| 43 | 260.7 | 208.4 | 312.6 |
| 56 | 54.9 | 43.1 | 64.7 |

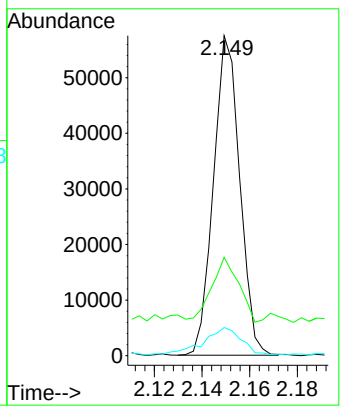





#27
Carbon Disulfide
Concen: 2.041 ppbv
RT: 2.149 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 76 Resp: 4397

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 44.3 | 15.5 | 23.3# |
| 78 | 13.6 | 9.3 | 13.9 |

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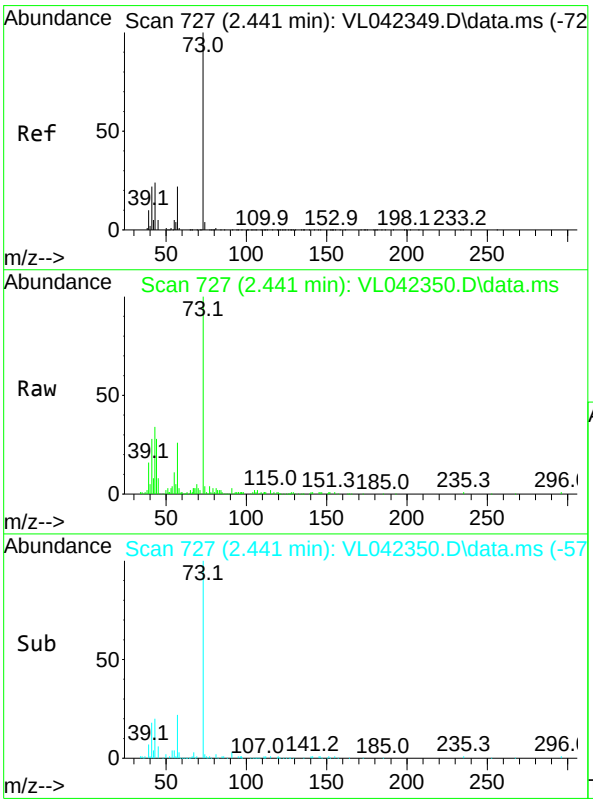
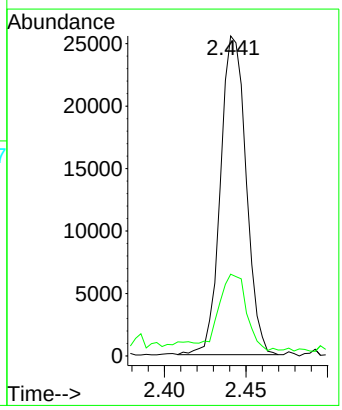
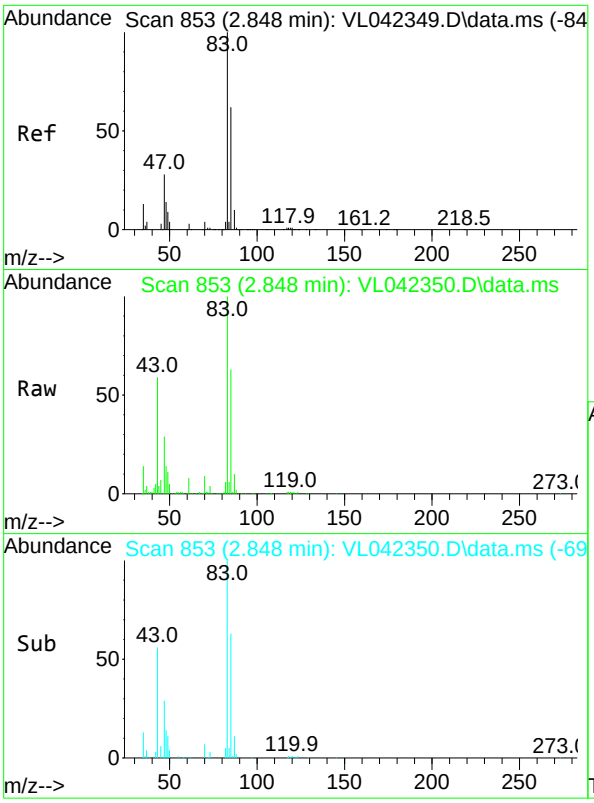



#28
Methyl tert-Butyl Ether
Concen: 2.116 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 73 Resp: 27905

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 28.1 | 21.3 | 31.9 |

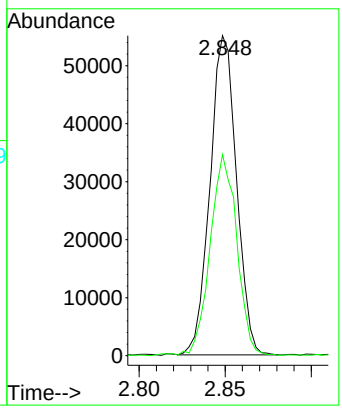





#29
Chloroform
Concen: 2.072 ppbv
RT: 2.848 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 83 Resp: 5894

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.9 | 50.0 | 75.0 |

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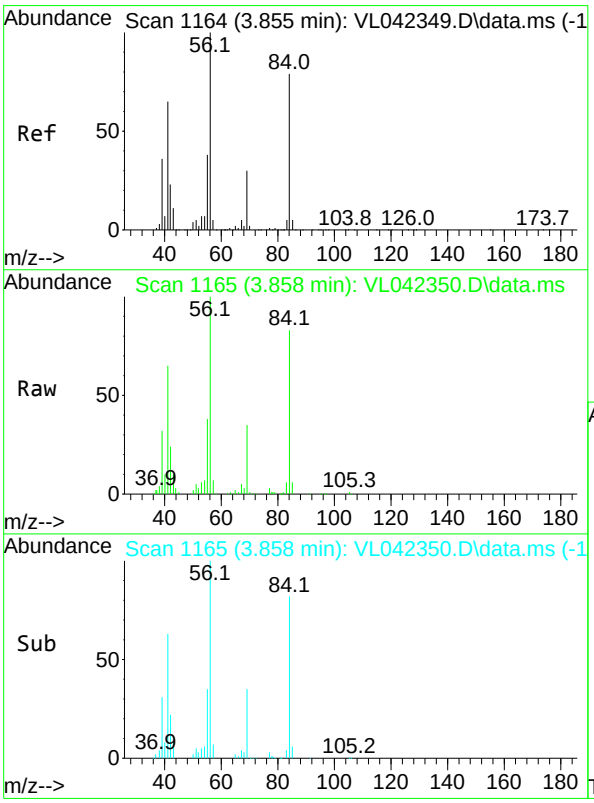
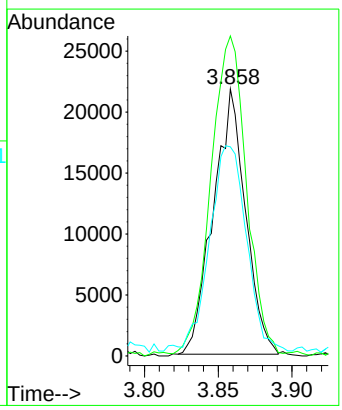
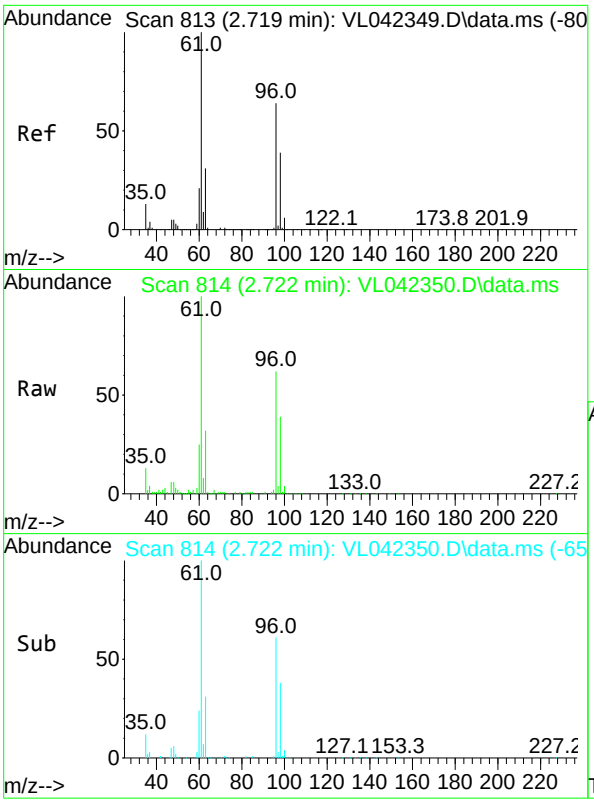



#30
Cyclohexane
Concen: 2.048 ppbv
RT: 3.858 min Scan# 1165
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 84 Resp: 33195

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 134.5 | 101.0 | 151.4 |
| 41 | 88.1 | 67.4 | 101.0 |

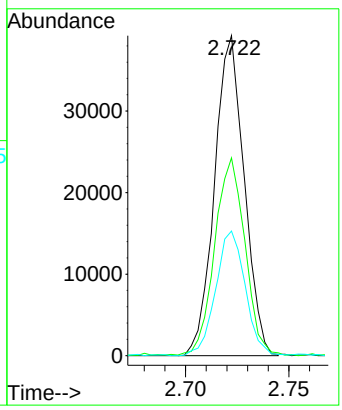





#31
cis-1,2-Dichloroethene
Concen: 2.051 ppbv
RT: 2.722 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 61 Resp: 3924

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 61.6 | 50.8 | 76.2 |
| 98 | 39.0 | 30.9 | 46.3 |

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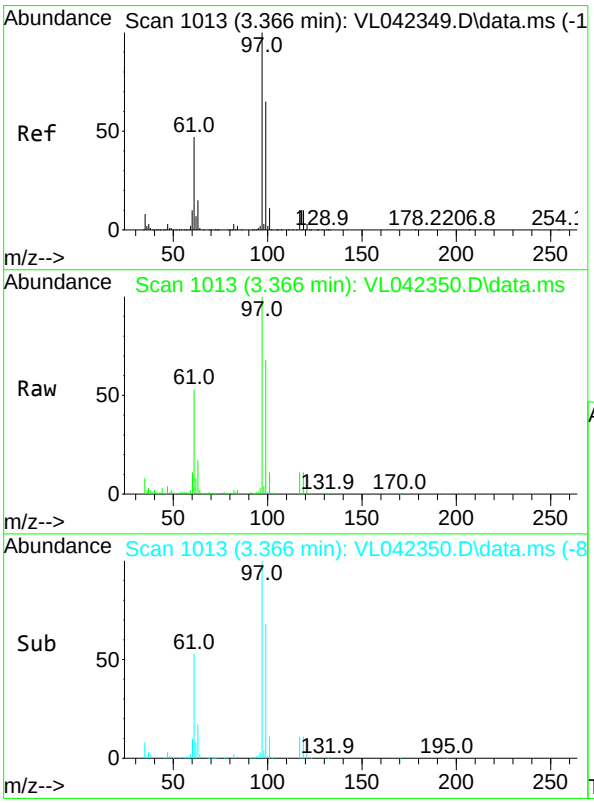
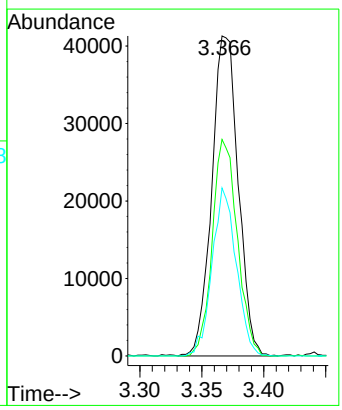
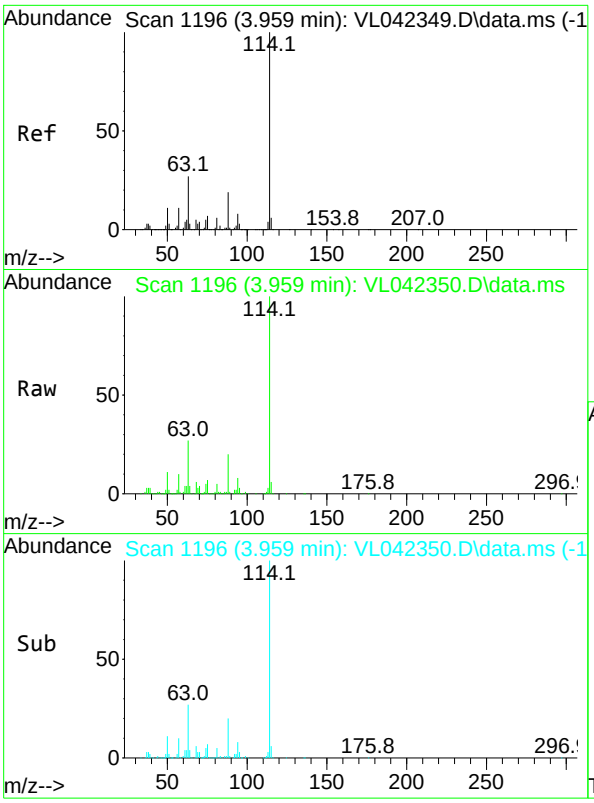



#32
1,1,1-Trichloroethane
Concen: 2.014 ppbv
RT: 3.366 min Scan# 1013
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 97 Resp: 61442

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.0 | 51.0 | 76.4 |
| 61 | 48.0 | 38.8 | 58.2 |

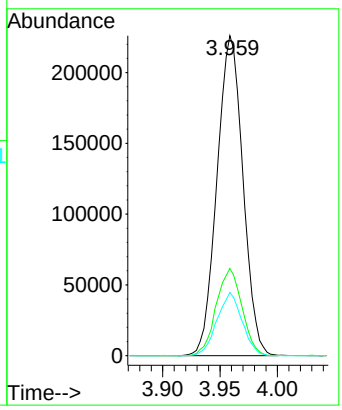





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:114 Resp: 35591

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 27.1 | 21.8 | 32.6 |
| 88 | 19.0 | 15.5 | 23.3 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

**Manual Integrations**
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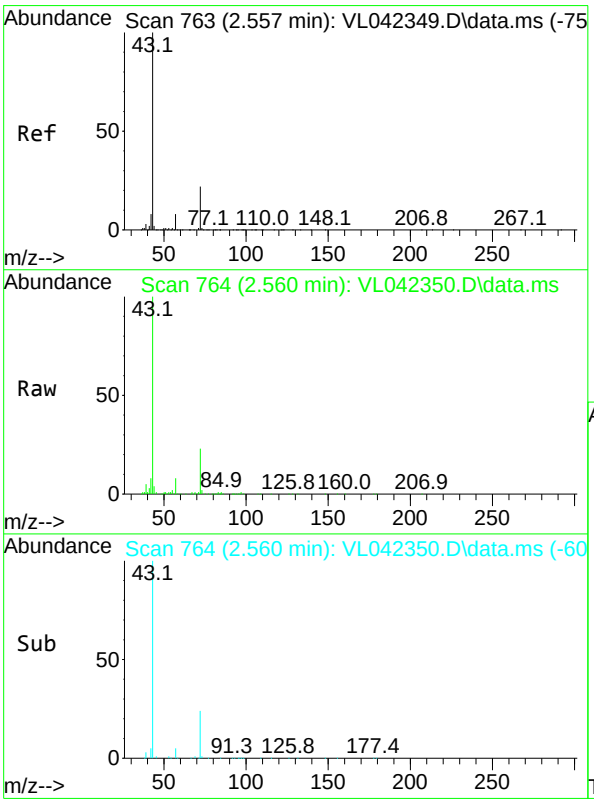
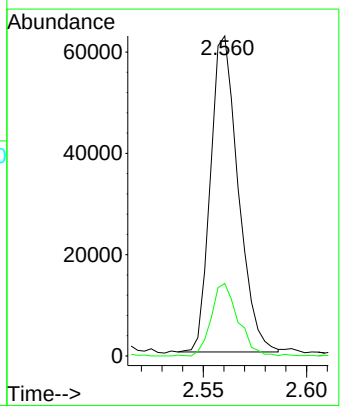
Supervised By :Mahesh Dadoda 04/18/2025

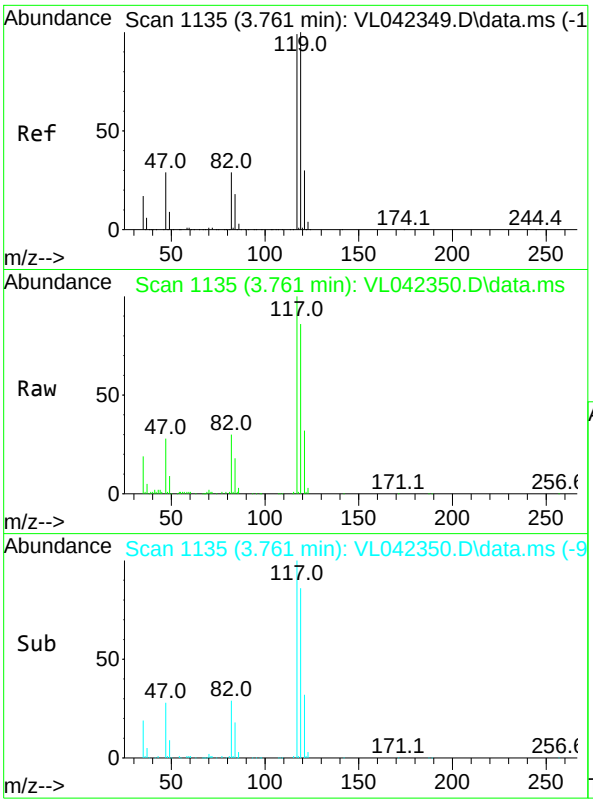



#34
2-Butanone
Concen: 2.069 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 43 Resp: 58249

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 22.5 | 18.2 | 27.2 |

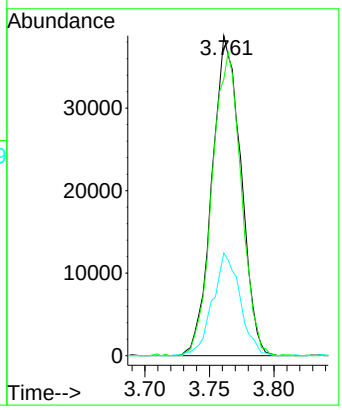





#35
Carbon Tetrachloride
Concen: 1.872 ppbv
RT: 3.761 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:117 Resp: 6029

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 86.4 | 80.5 | 120.7 |
| 121 | 32.1 | 24.2 | 36.2 |




**Instrument :**
MSVOA_L
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VSTDICC002

**Manual Integrations**
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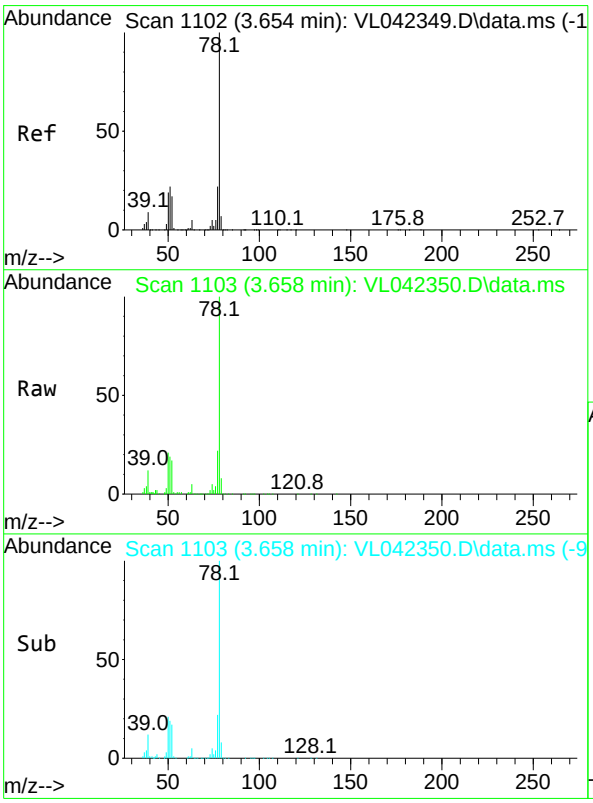
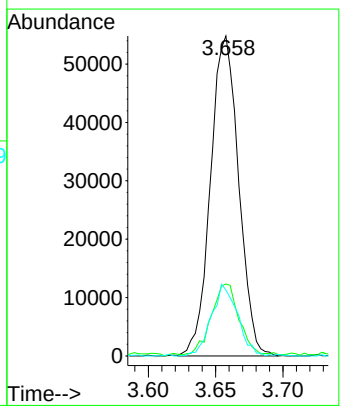
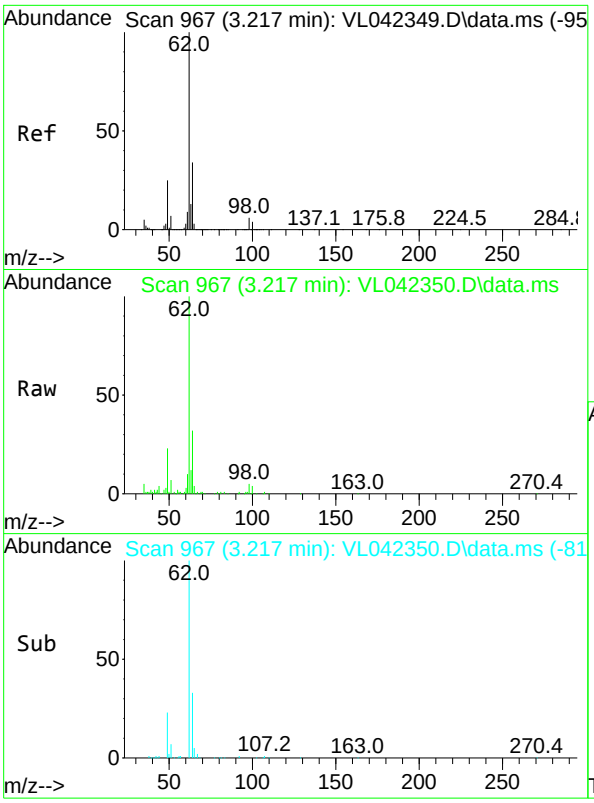



#36
Benzene
Concen: 2.079 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 78 Resp: 79814

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 22.0 | 17.4 | 26.0 |
| 50 | 20.6 | 15.5 | 23.3 |






#37
1,2-Dichloroethane
Concen: 2.057 ppbv
RT: 3.217 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 62 Resp: 4739

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 6.4 | 5.1 | 7.7 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

**Manual Integrations**
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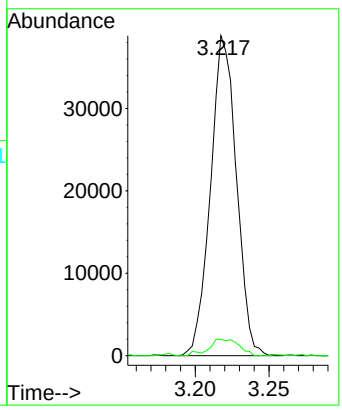
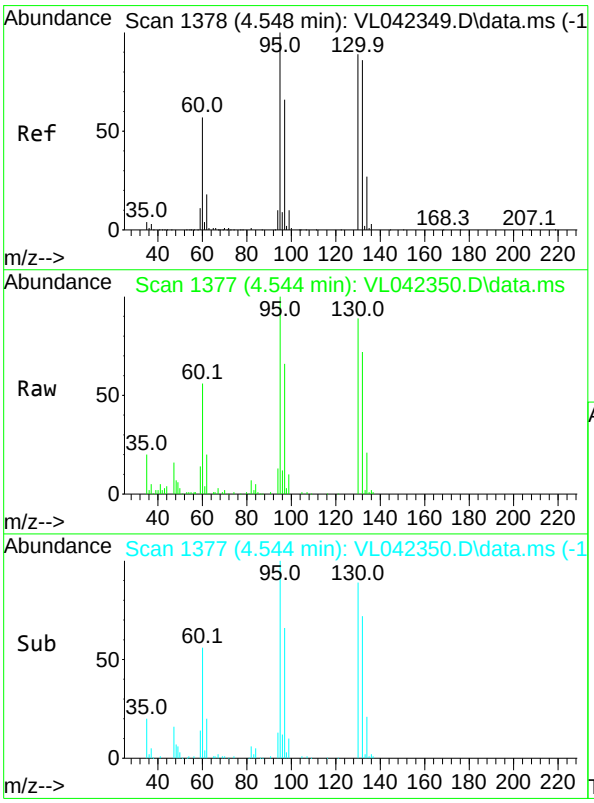
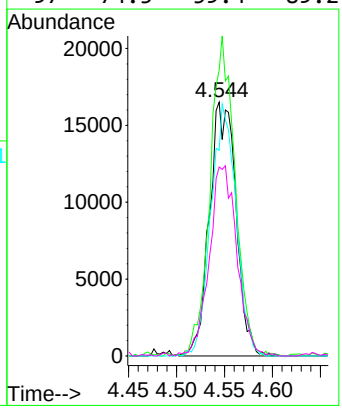


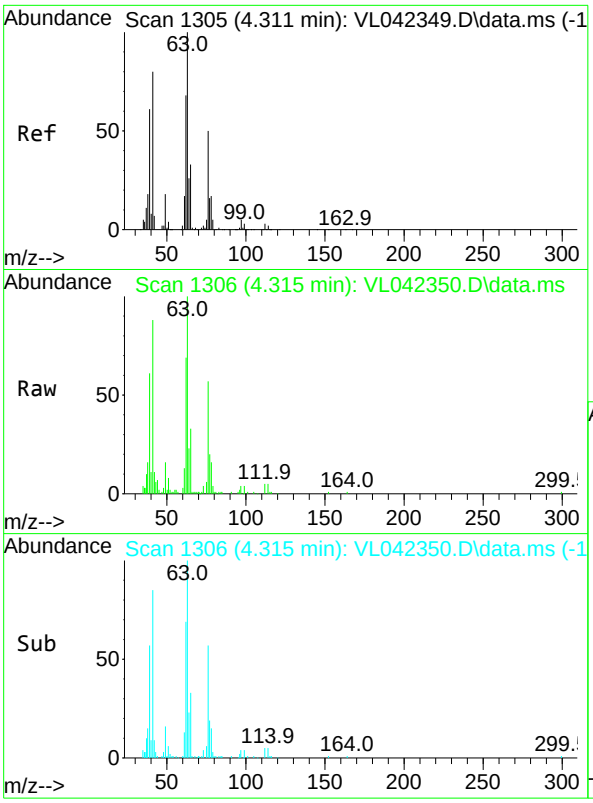




#38
Trichloroethene
Concen: 1.891 ppbv m
RT: 4.544 min Scan# 1377
Delta R.T. -0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:130 Resp: 31826

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 112.6 | 89.8 | 134.6 |
| 132 | 81.1 | 77.7 | 116.5 |
| 97 | 74.5 | 59.4 | 89.2 |

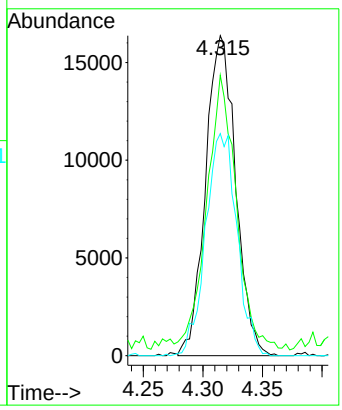





#39
1,2-Dichloropropane
Concen: 2.012 ppbv
RT: 4.315 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 63 Resp: 2880

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 85.2 | 64.2 | 96.2 |
| 62 | 69.4 | 54.3 | 81.5 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

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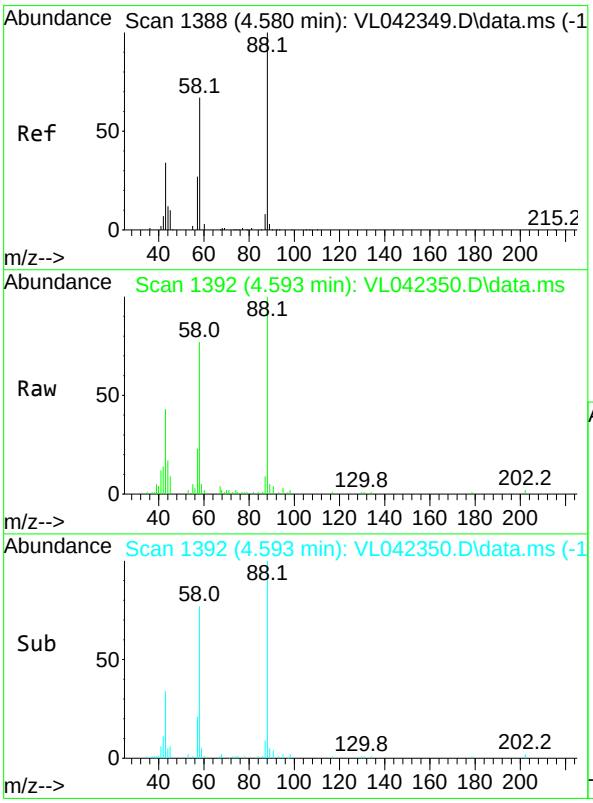
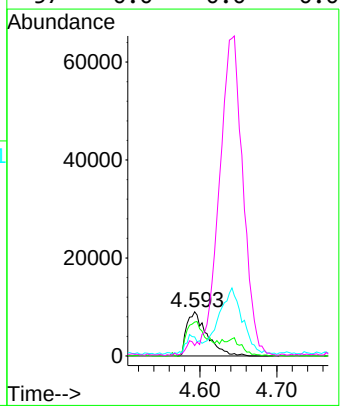
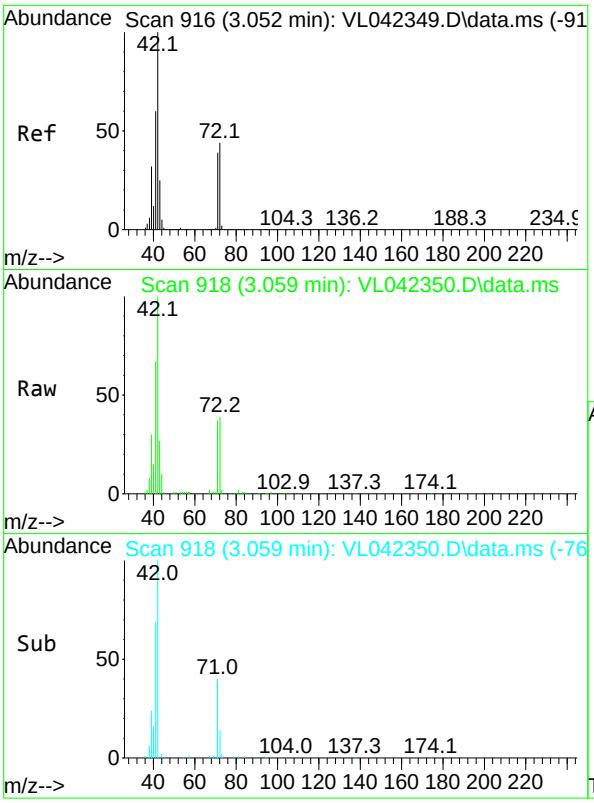



#40
1,4-Dioxane
Concen: 2.133 ppbv m
RT: 4.593 min Scan# 1392
Delta R.T. 0.013 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 88 Resp: 16536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 82.3 | 61.4 | 92.0 |
| 43 | 6.1 | 23.2 | 34.8# |
| 57 | 0.0 | 0.0 | 0.0 |

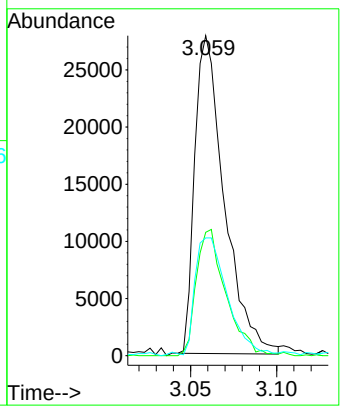





#41
Tetrahydrofuran
Concen: 2.047 ppbv
RT: 3.059 min Scan# 9
Delta R.T. 0.006 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 42 Resp: 3329

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 39.9 | 32.3 | 48.5 |
| 71 | 41.5 | 31.4 | 47.2 |




**Instrument :**
MSVOA_L
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VSTDICC002

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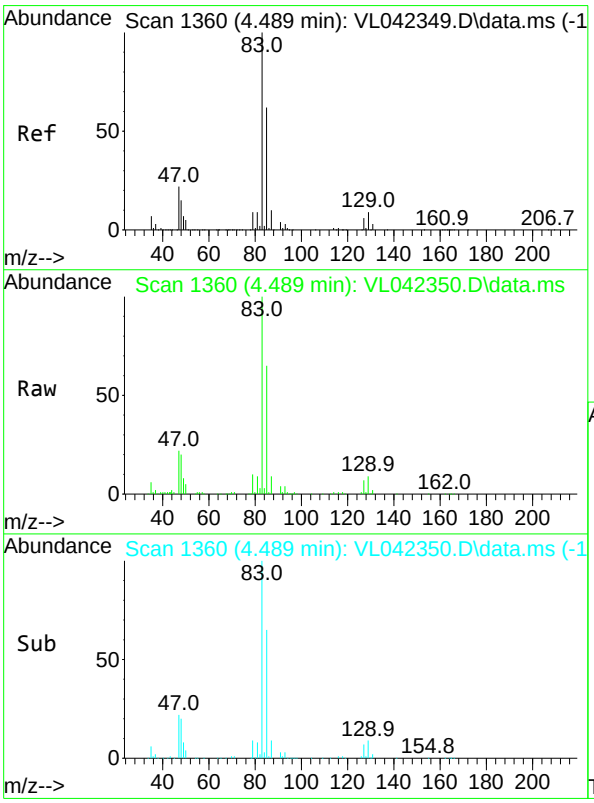
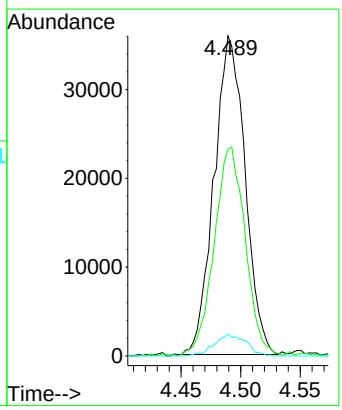
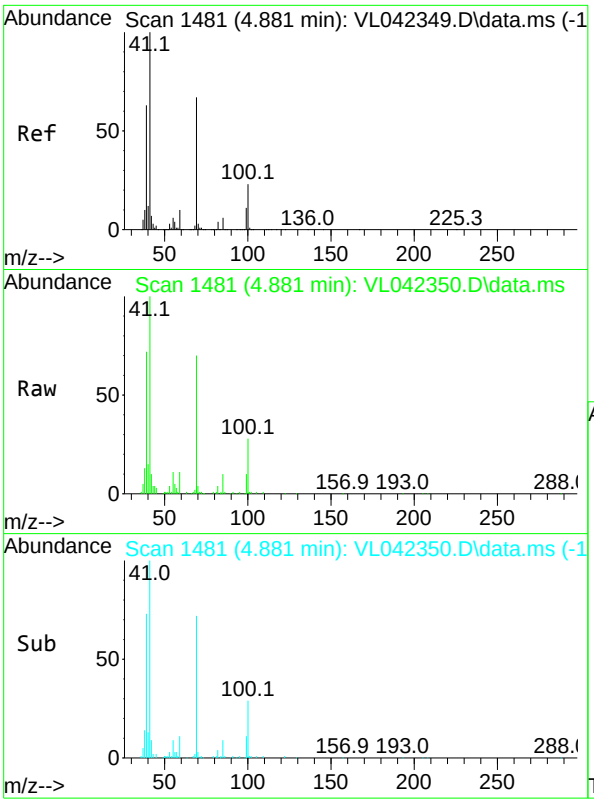



#42
Bromodichloromethane
Concen: 2.025 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 83 Resp: 64941

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.9 | 49.7 | 74.5 |
| 127 | 6.9 | 5.1 | 7.7 |

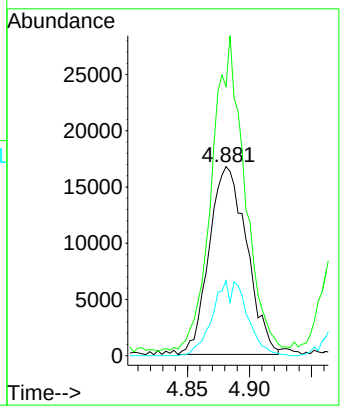





#43
Methyl Methacrylate
Concen: 2.046 ppbv
RT: 4.881 min Scan# 14
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 69 Resp: 3525(

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 144.4 | 118.6 | 177.8 |
| 100 | 36.5 | 28.2 | 42.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

**Manual Integrations**
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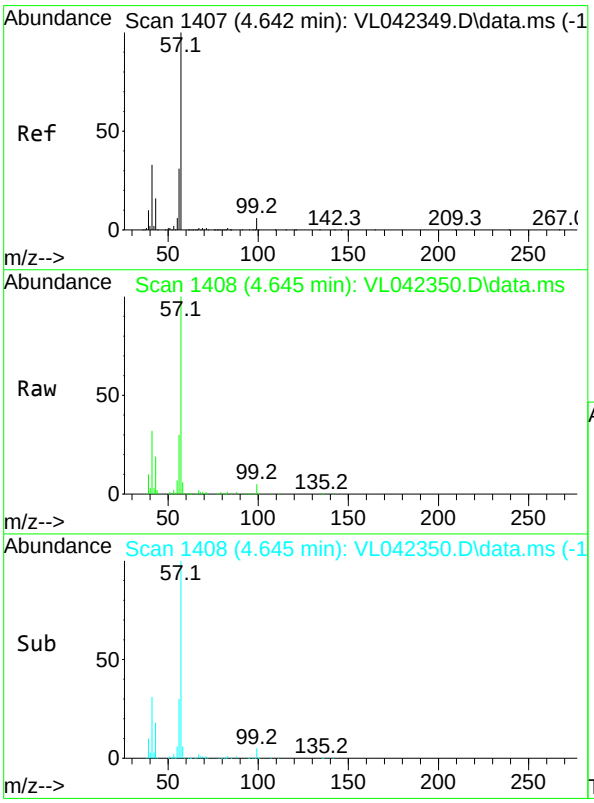
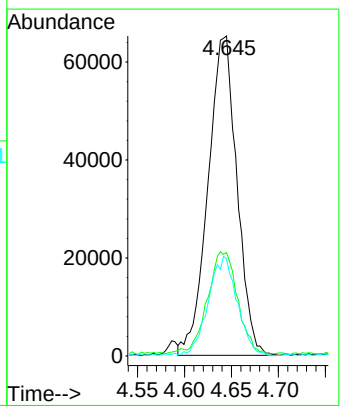
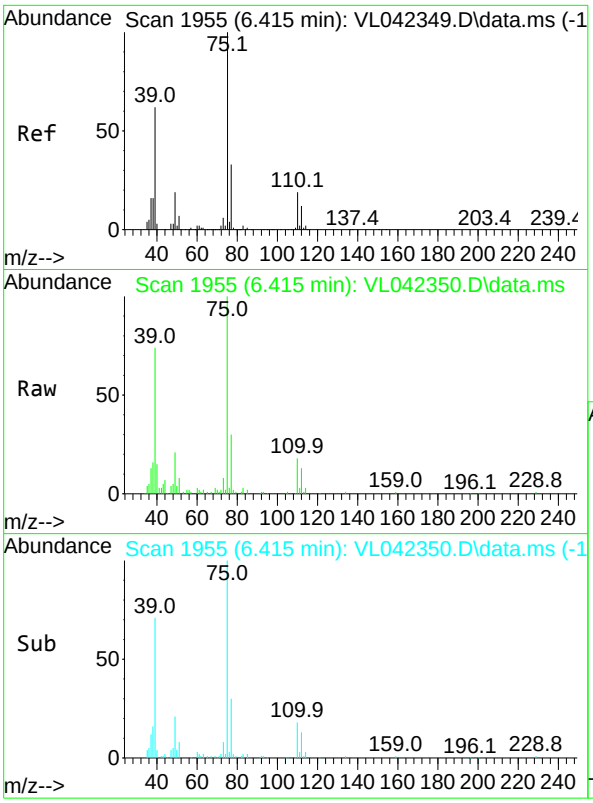



#44
2,2,4-Trimethylpentane
Concen: 2.103 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 57 Resp: 139641

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 34.4 | 27.2 | 40.8 |
| 56 | 31.3 | 25.7 | 38.5 |

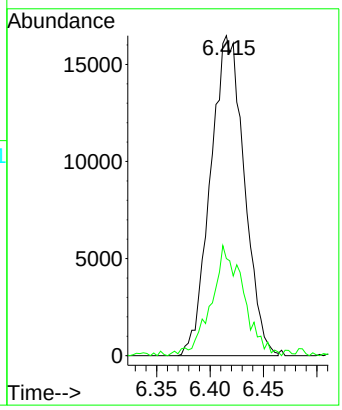





#45
t-1,3-Dichloropropene
Concen: 2.050 ppbv
RT: 6.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 75 Resp: 3626

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.4 | 27.0 | 40.6 |




**Instrument :**
MSVOA_L
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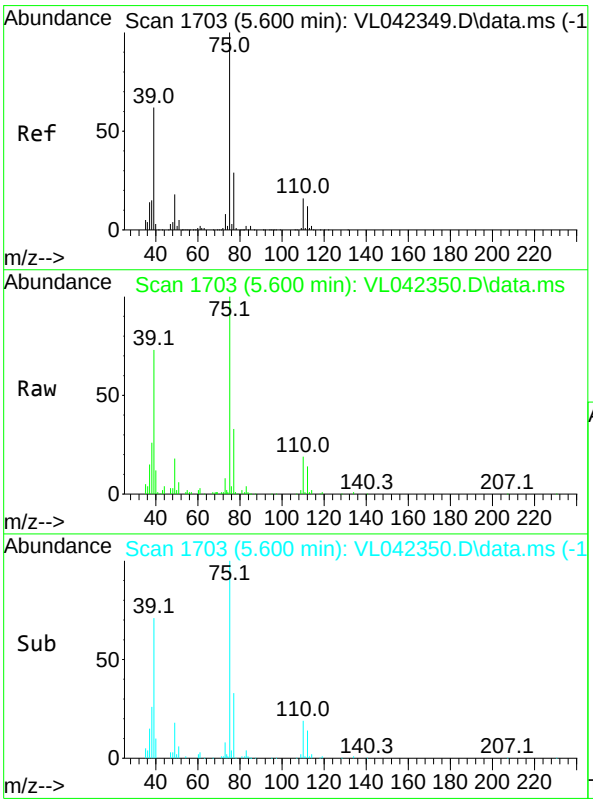
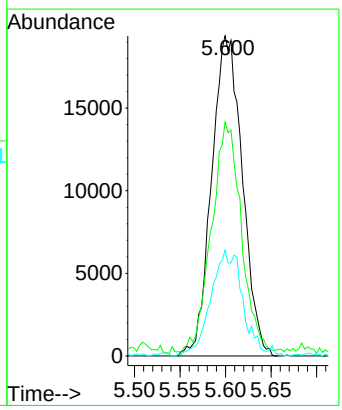
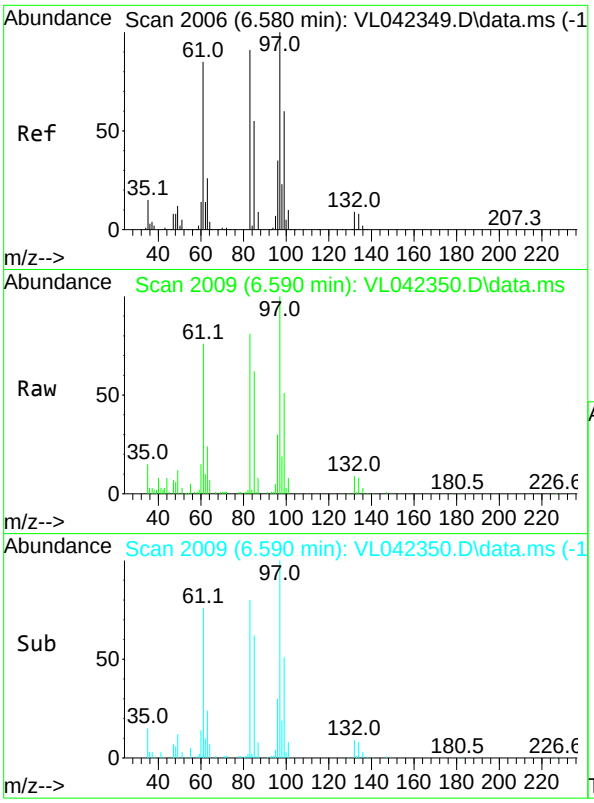



#46
cis-1,3-Dichloropropene
Concen: 2.096 ppbv m
RT: 5.600 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 75 Resp: 45327

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 39 | 73.0 | 50.0 | 75.0 |
| 77 | 33.1 | 23.0 | 34.6 |

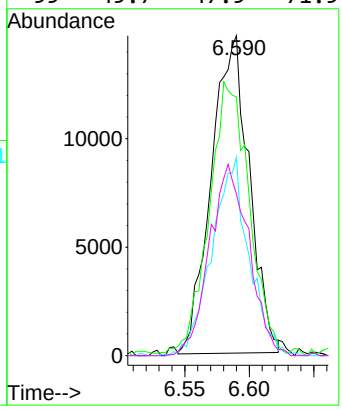





#47
1,1,2-Trichloroethane
Concen: 2.049 ppbv
RT: 6.590 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 97 Resp: 2987

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 78.8 | 72.8 | 109.2 |
| 85 | 61.7 | 44.2 | 66.4 |
| 99 | 49.7 | 47.9 | 71.9 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

**Manual Integrations**
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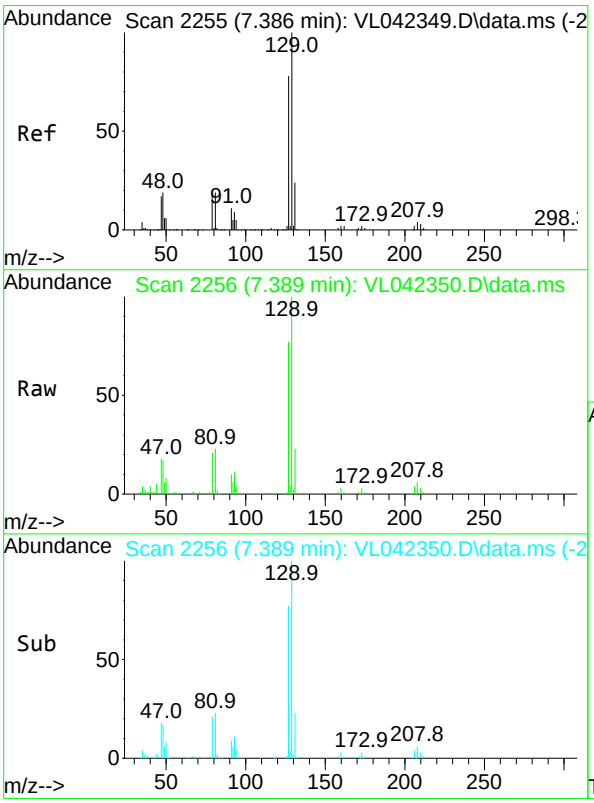
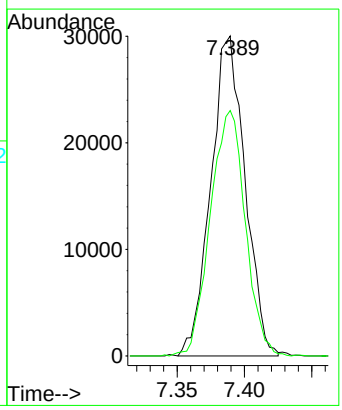
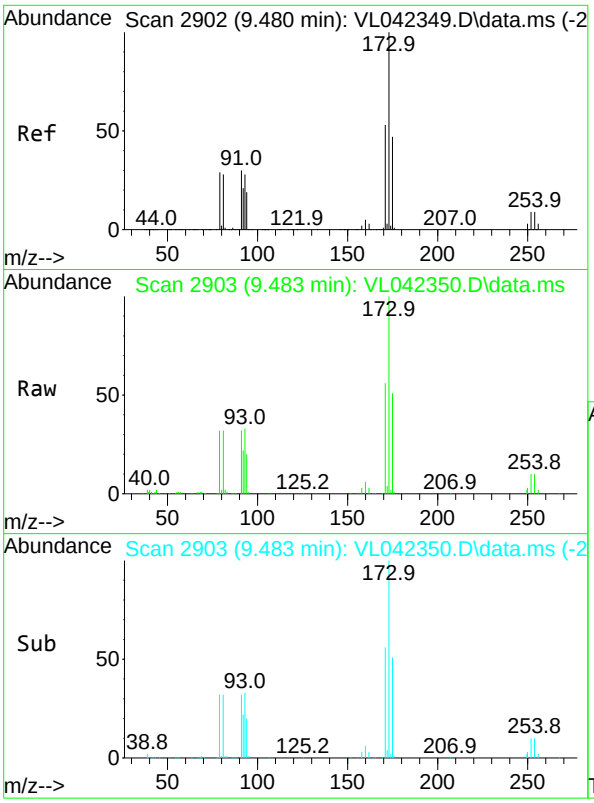



#48
Dibromochloromethane
Concen: 2.061 ppbv
RT: 7.389 min Scan# 2256
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:129 Resp: 53069

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.4 | 39.1 | 117.3 |

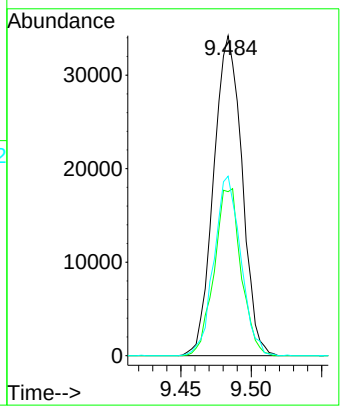





#49
Bromoform
Concen: 2.135 ppbv
RT: 9.483 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:173 Resp: 4806

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.4 | 38.2 | 57.2 |
| 171 | 53.0 | 40.9 | 61.3 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

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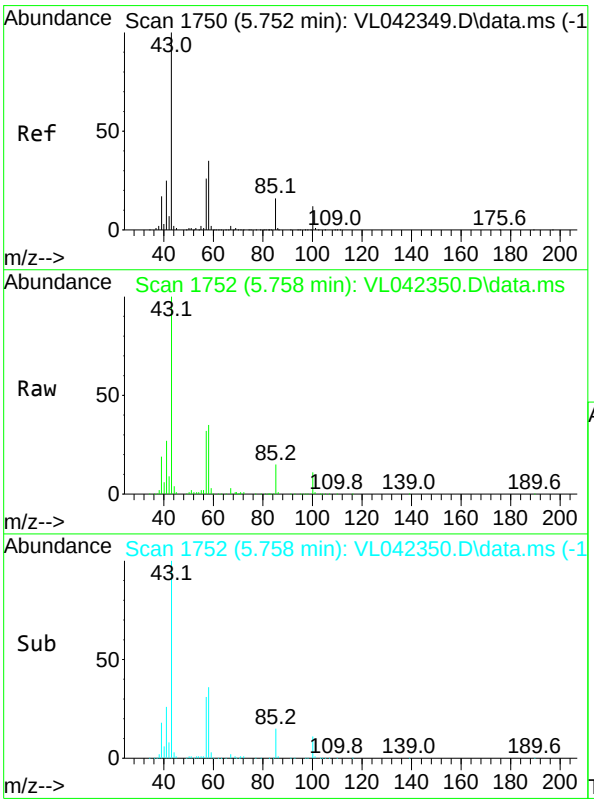
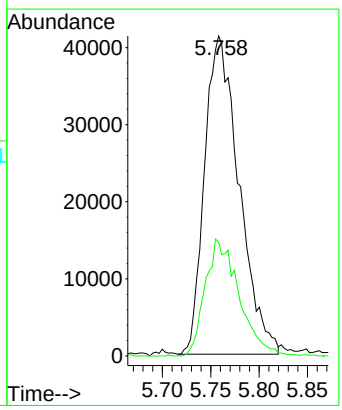
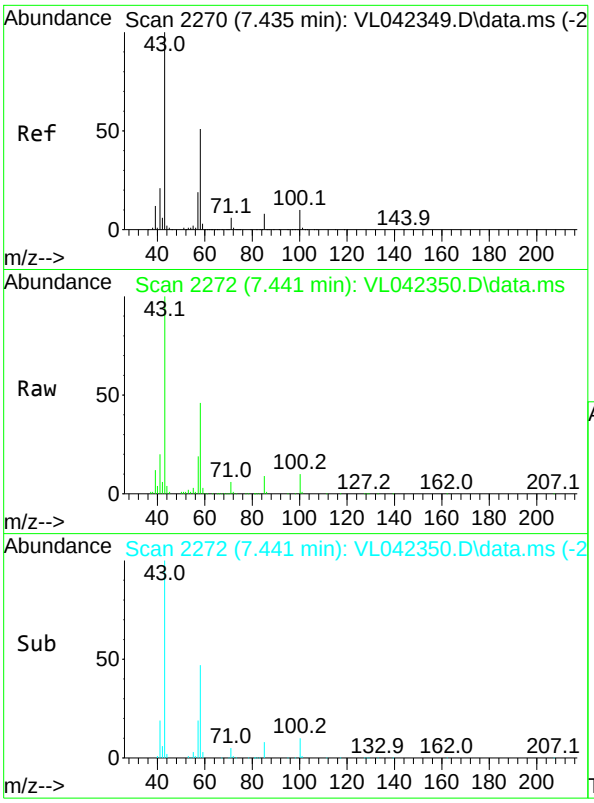



#50
4-Methyl-2-Pentanone
Concen: 2.180 ppbv
RT: 5.758 min Scan# 1752
Delta R.T. 0.006 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 43 Resp: 102182

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 36.3 | 28.6 | 43.0 |

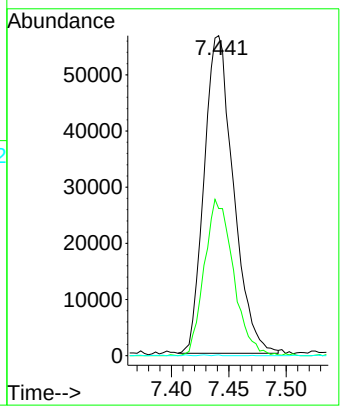





#51
2-Hexanone
Concen: 2.375 ppbv
RT: 7.441 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 43 Resp: 10044

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 49.0 | 40.2 | 60.4 |
| 98 | 0.1 | 0.1 | 0.1 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

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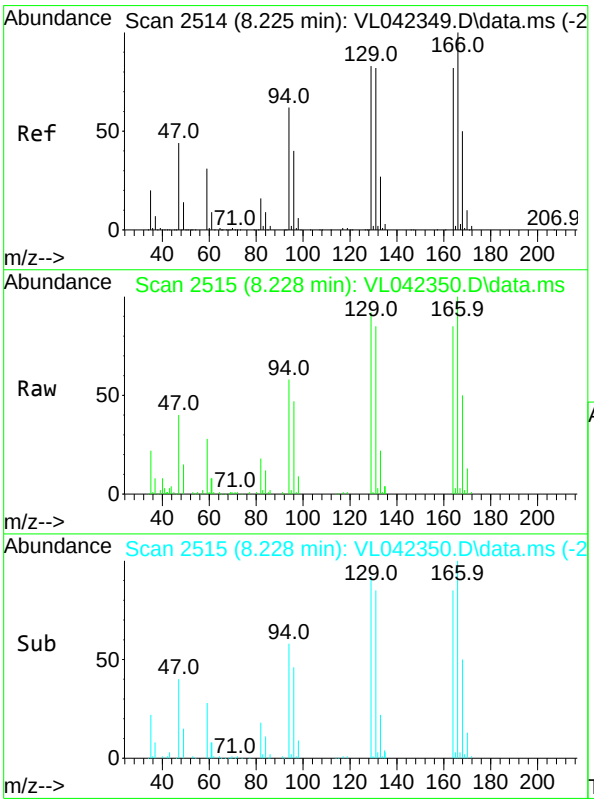
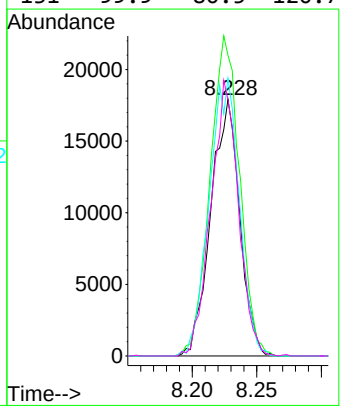
Supervised By :Mahesh Dadoda 04/18/2025

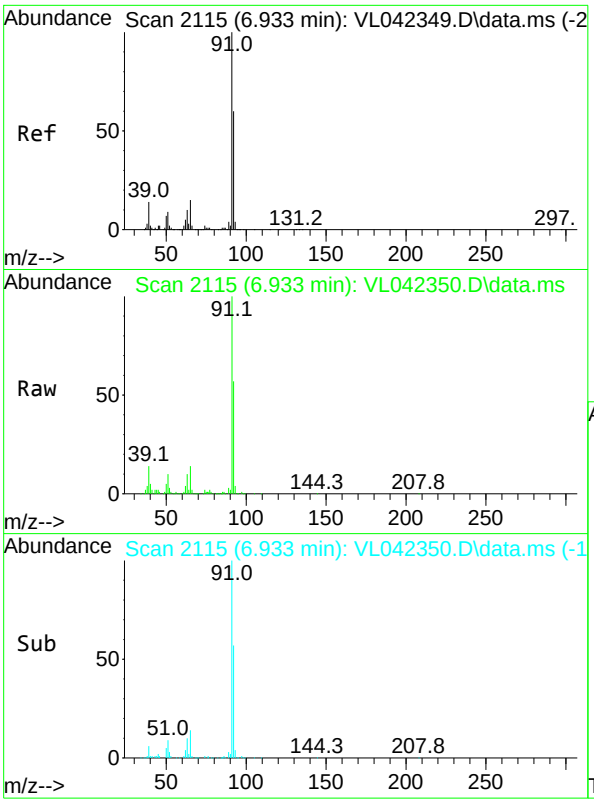



#52
Tetrachloroethene
Concen: 1.877 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:164 Resp: 27854

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 117.2 | 98.2 | 147.2 |
| 129 | 108.2 | 81.8 | 122.8 |
| 131 | 99.9 | 80.5 | 120.7 |

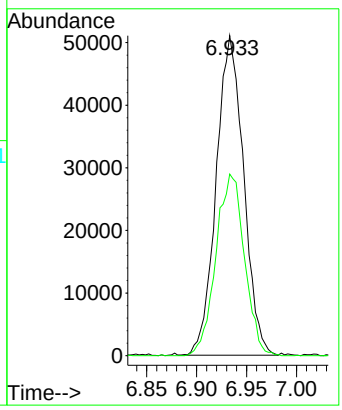





#53
Toluene
Concen: 2.116 ppbv
RT: 6.933 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 91 Resp: 9749

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 59.1 | 48.2 | 72.4 |




**Instrument :**
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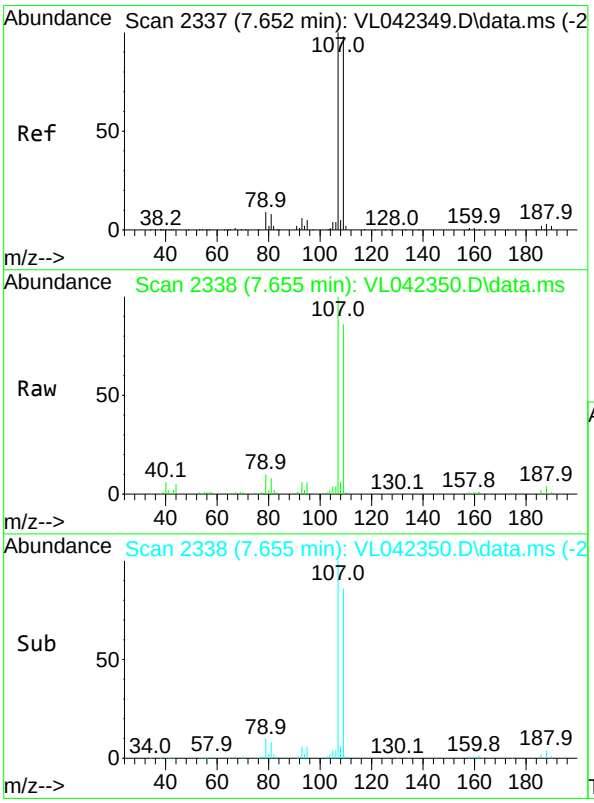
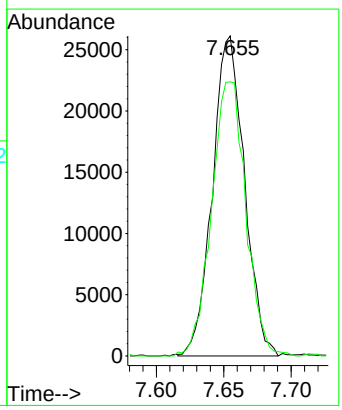
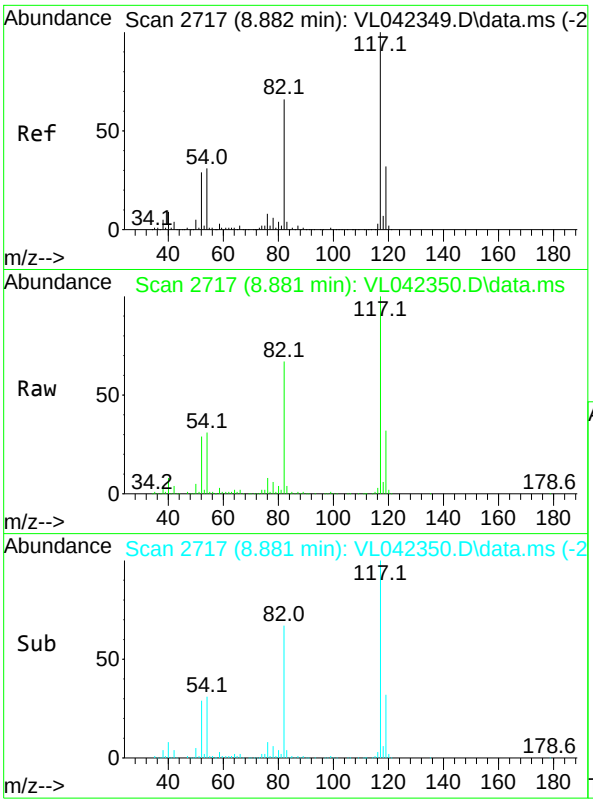



#54
1,2-Dibromoethane
Concen: 2.076 ppbv
RT: 7.655 min Scan# 2338
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:107 Resp: 43153

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 84.5 | 78.2 | 117.4 |

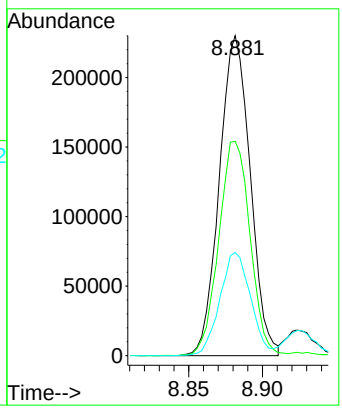





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:117 Resp: 33560

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 68.8 | 57.8 | 86.6 |
| 119 | 32.2 | 25.2 | 37.8 |




**Instrument :**
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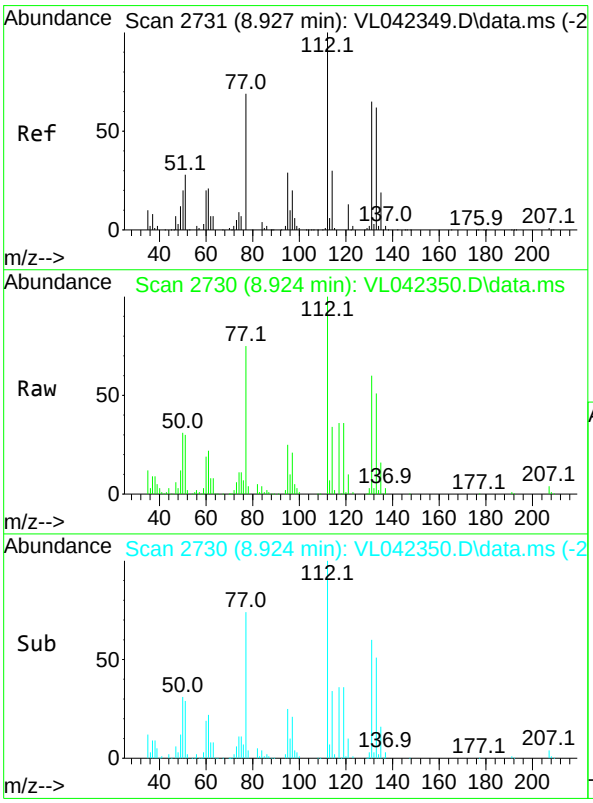
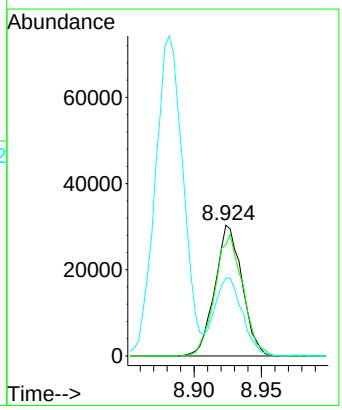
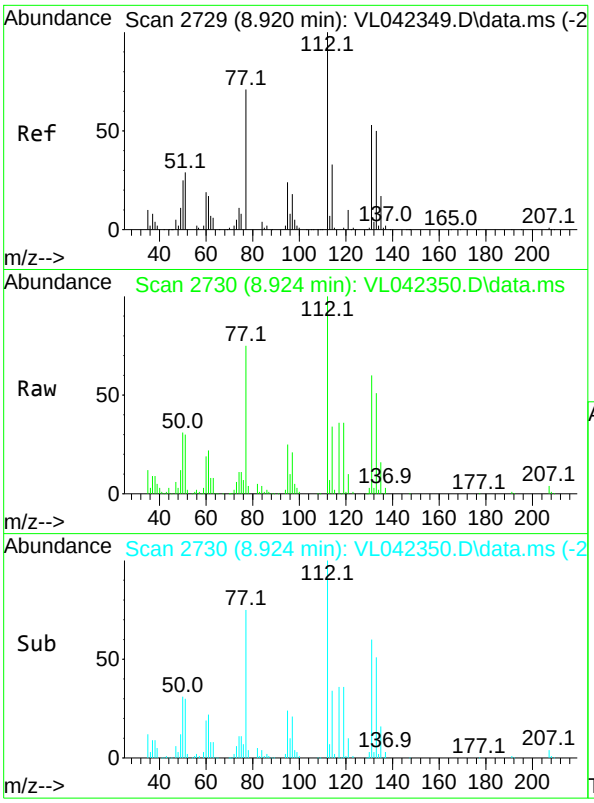



#56
1,1,1,2-Tetrachloroethane
Concen: 2.097 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. -0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:131 Resp: 42601

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.3 | 78.3 | 117.5 |
| 119 | 53.8 | 48.7 | 73.1 |

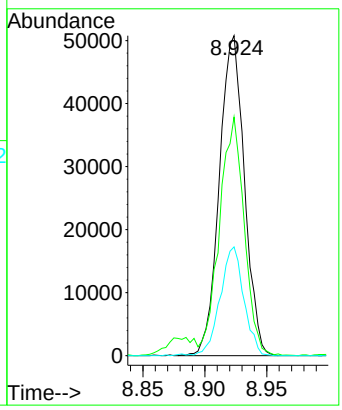





#57
Chlorobenzene
Concen: 2.054 ppbv
RT: 8.924 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:112 Resp: 7168

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 74.0 | 57.8 | 86.6 |
| 114 | 34.0 | 29.3 | 35.9 |




**Instrument :**
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VSTDICC002

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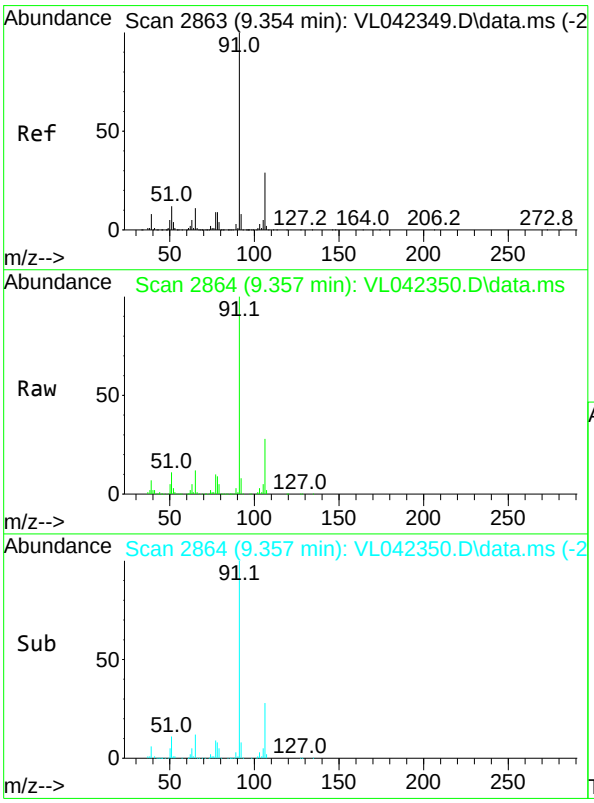
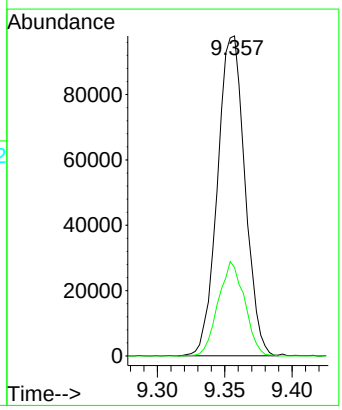
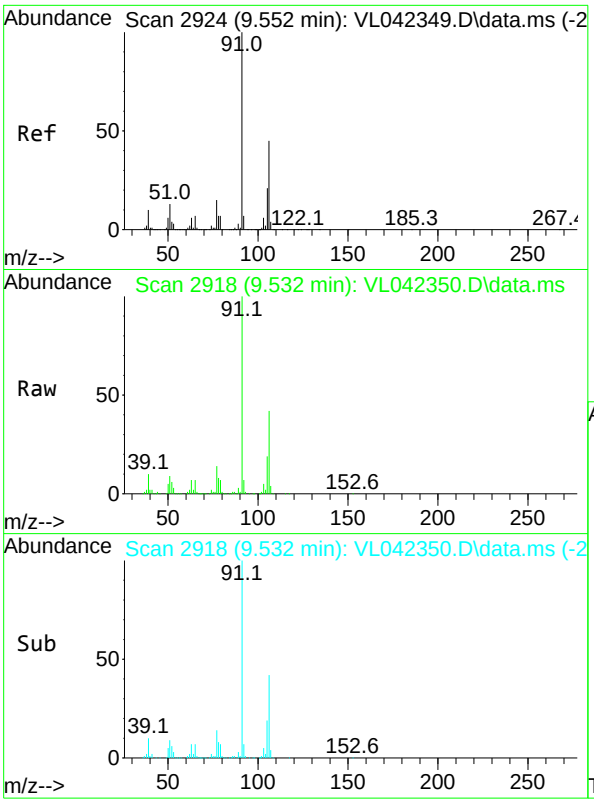



#58
Ethyl Benzene
Concen: 2.088 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 91 Resp: 138810

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 27.7 | 23.0 | 34.4 |






#59
m/p-Xylene
Concen: 4.142 ppbv m
RT: 9.532 min Scan# 2
Delta R.T. -0.019 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 91 Resp: 22254

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 0.0 | 35.4 | 53.2 |

**Instrument :**
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VSTDICC002

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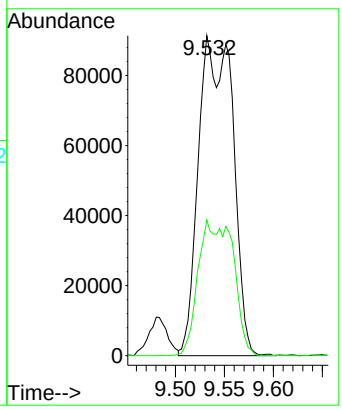
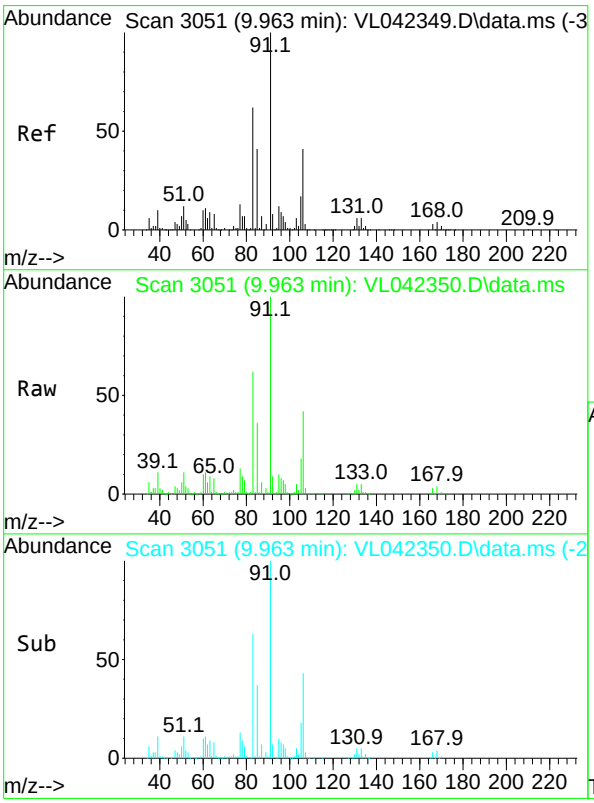
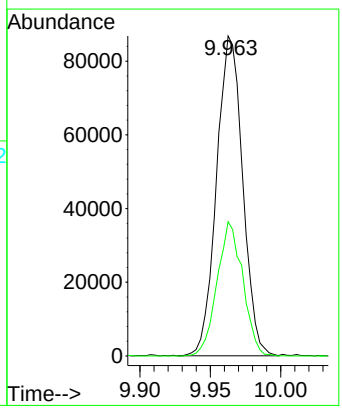


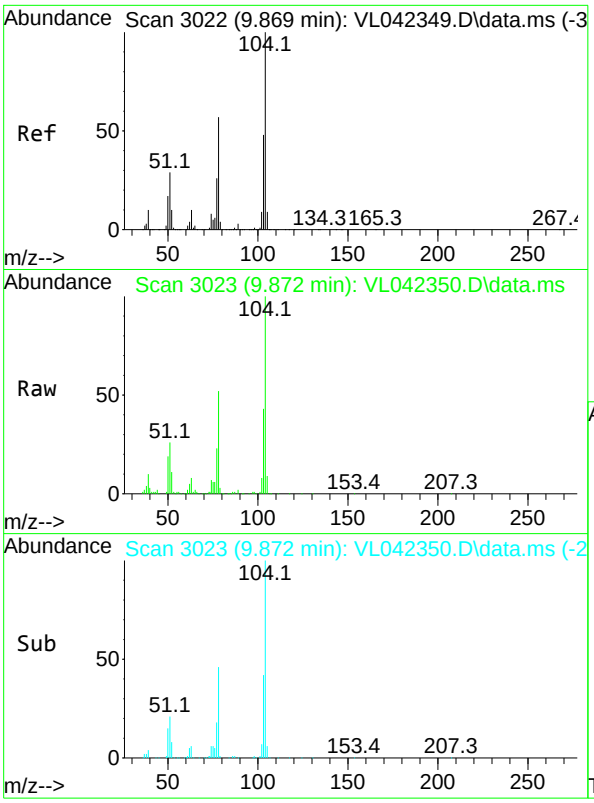




#60
o-Xylene
Concen: 2.076 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 91 Resp: 111972

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 41.2 | 21.1 | 63.4 |

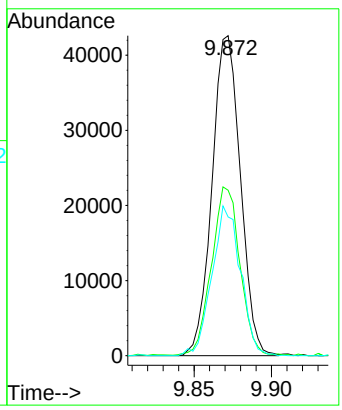





#61
Styrene
Concen: 2.106 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:104 Resp: 5422

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 53.4 | 44.6 | 66.8 |
| 103 | 47.1 | 37.4 | 56.0 |

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MSVOA_L
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VSTDICC002

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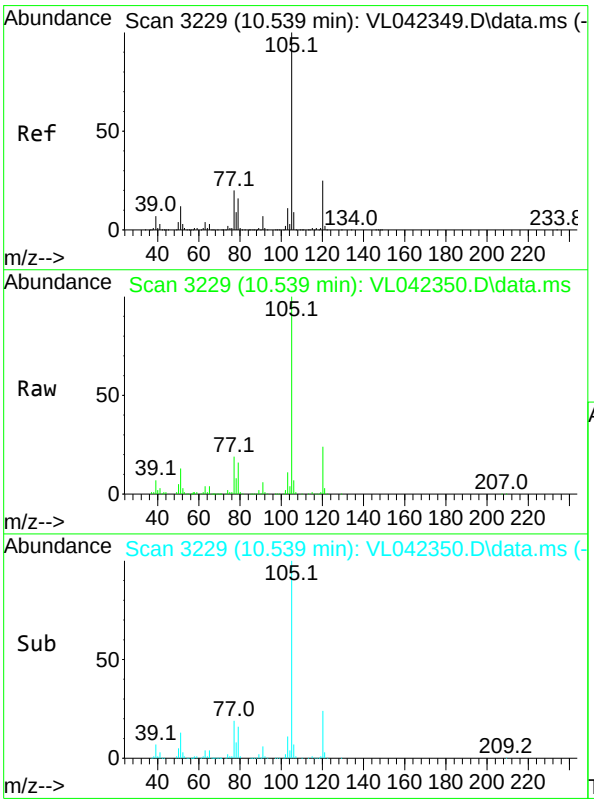
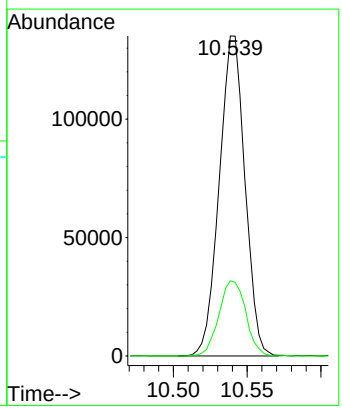
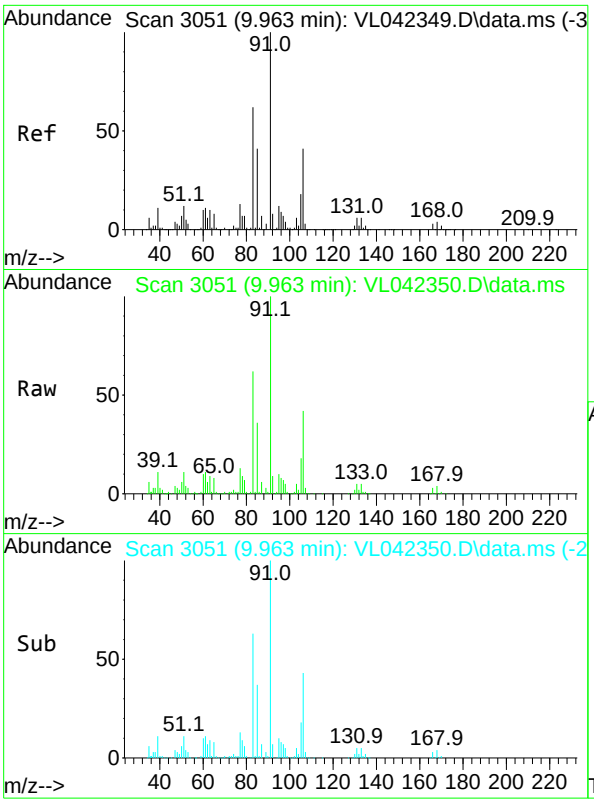



#62
Isopropylbenzene
Concen: 2.067 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:105 Resp: 163716

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 24.6 | 19.8 | 29.8 |






#63
1,1,2,2-Tetrachloroethane
Concen: 1.853 ppbv
RT: 9.963 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 83 Resp: 6495

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.6 | 4.5 | 13.7 |
| 85 | 65.4 | 32.4 | 97.0 |

**Instrument :**
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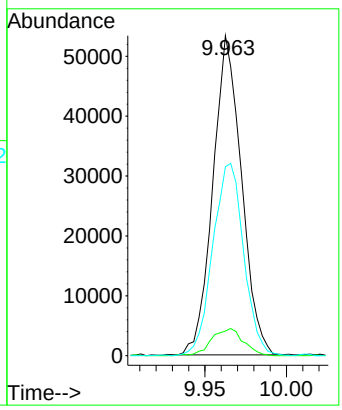
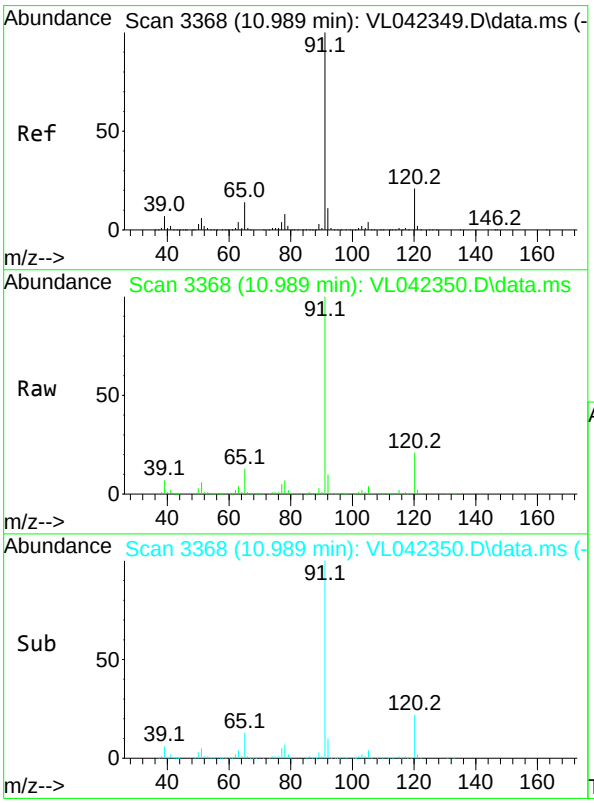
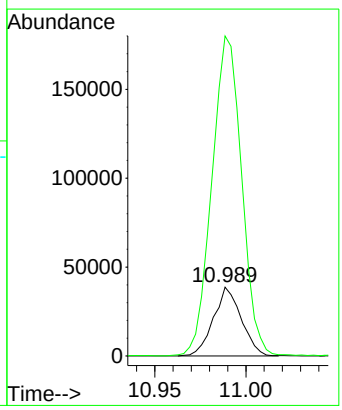


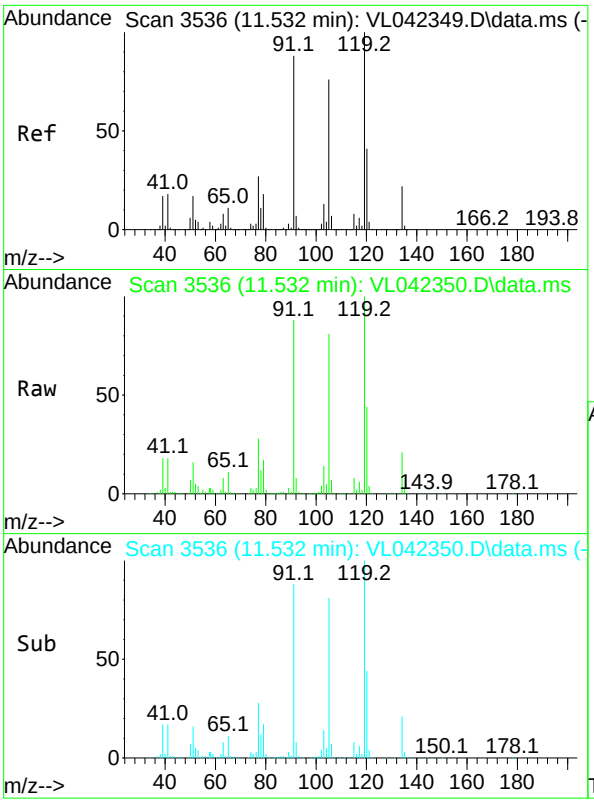




#64
n-propylbenzene
Concen: 2.058 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:120 Resp: 40956

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 502.0 | 392.4 | 588.6 |

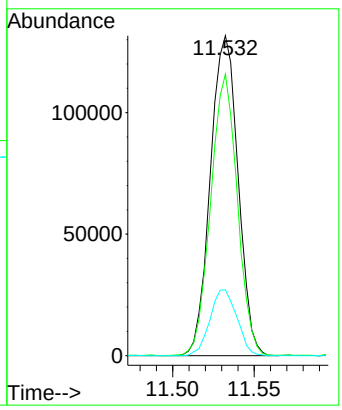





#65
tert-Butylbenzene
Concen: 2.135 ppbv
RT: 11.532 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:119 Resp: 15540

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 85.0 | 74.6 | 111.8 |
| 134 | 20.1 | 18.8 | 28.2 |




**Instrument :**
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VSTDICC002

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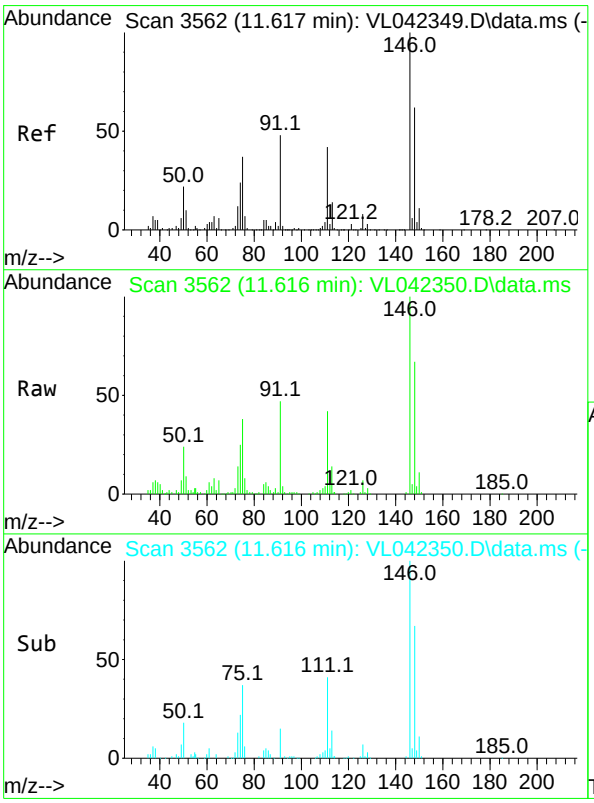
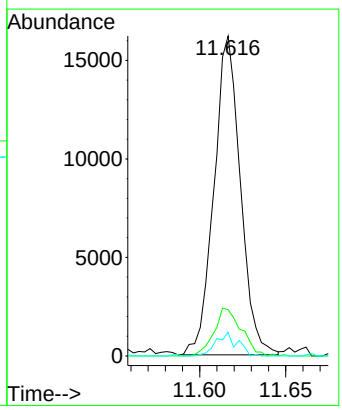
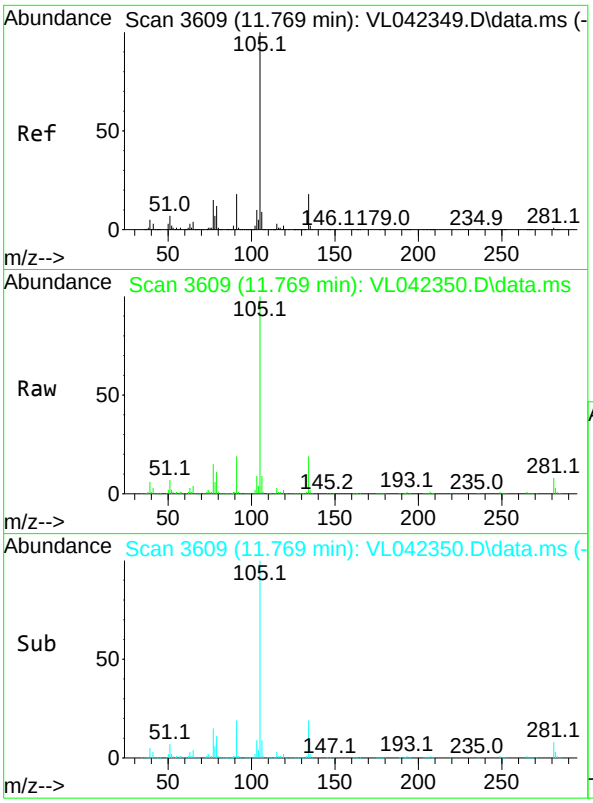



#66
Benzyl Chloride
Concen: 2.163 ppbv
RT: 11.616 min Scan# 3562
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 91 Resp: 17300

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 15.6 | 11.8 | 17.6 |
| 128 | 6.1 | 4.5 | 6.7 |

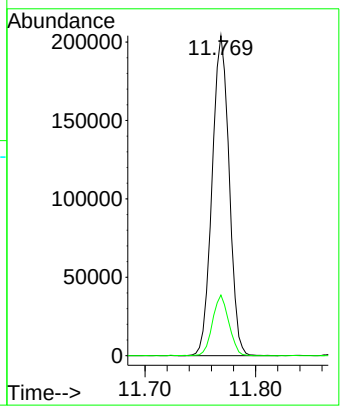





#67
sec-Butylbenzene
Concen: 2.156 ppbv
RT: 11.769 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:105 Resp: 21832

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 18.1 | 14.6 | 21.8 |

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VSTDICC002

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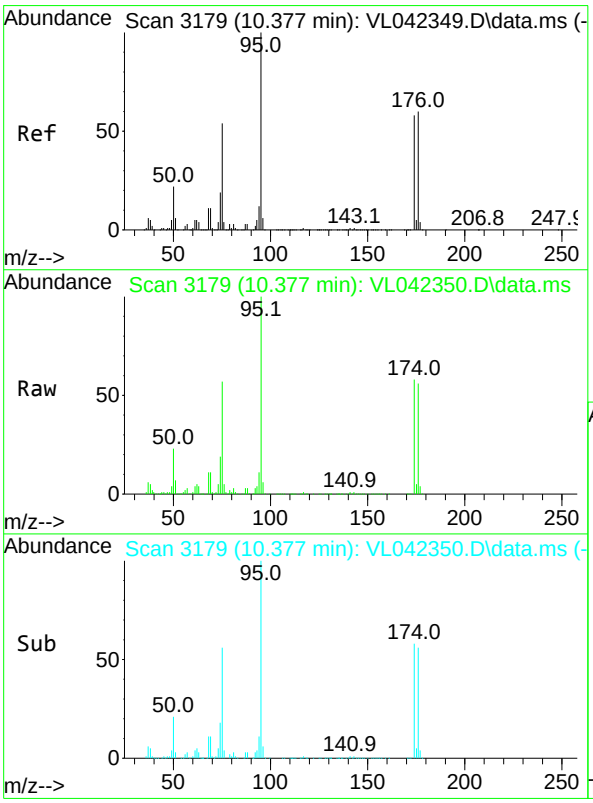
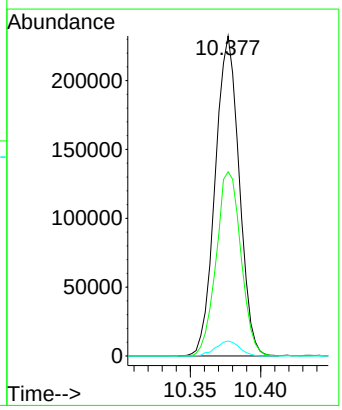
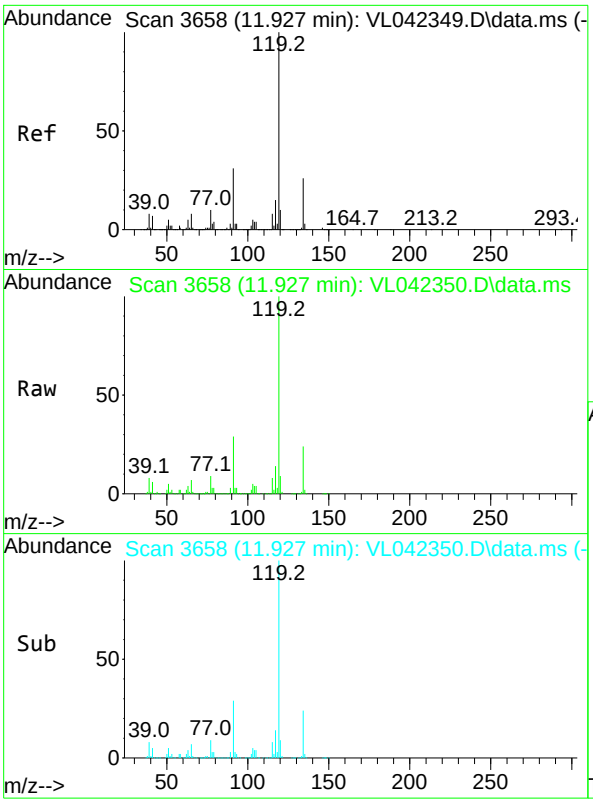



#68
1-Bromo-4-Fluorobenzene
Concen: 9.998 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 95 Resp: 275715

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 59.6 | 48.5 | 72.7 |
| 175 | 4.7 | 3.7 | 5.5 |

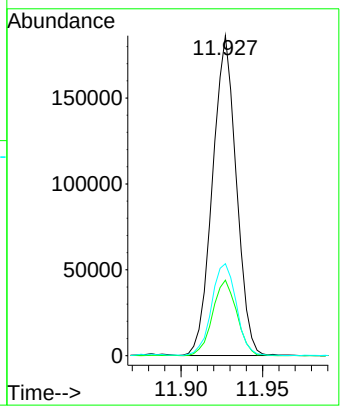





#69
p-Isopropyltoluene
Concen: 2.145 ppbv
RT: 11.927 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:119 Resp: 18865

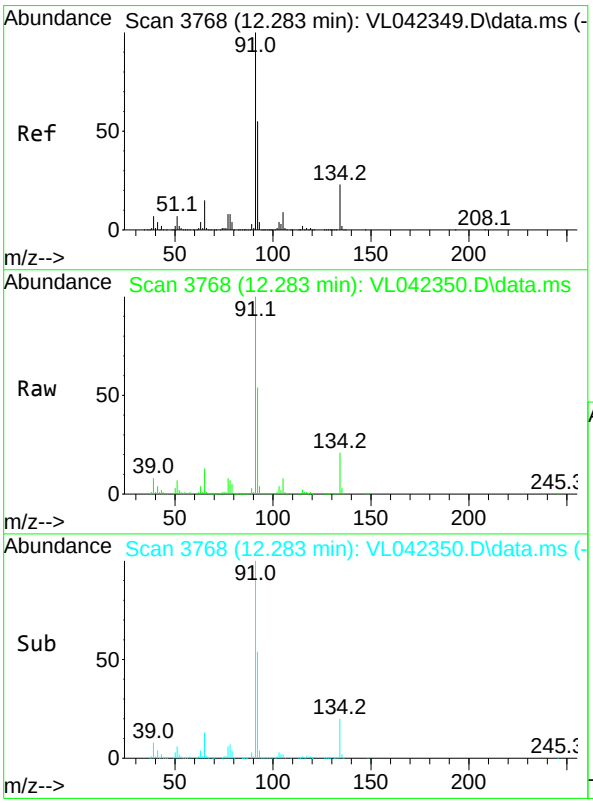
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 24.2 | 20.0 | 30.0 |
| 91 | 30.8 | 24.4 | 36.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

**Manual Integrations**
**APPROVED**

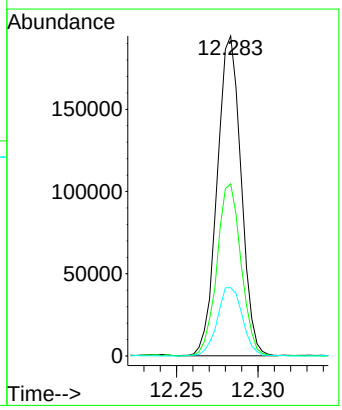
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

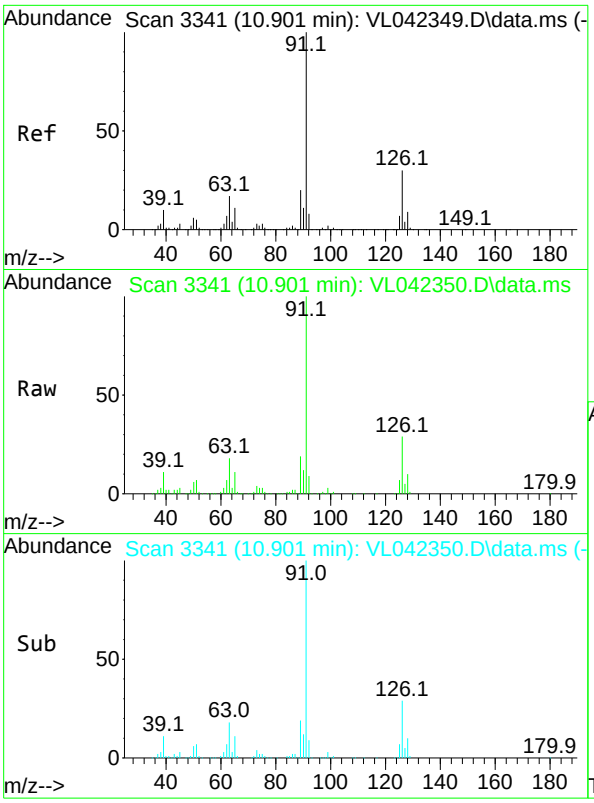



#70
n-Butylbenzene
Concen: 2.164 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 91 Resp: 198221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 54.4 | 44.2 | 66.4 |
| 134 | 22.6 | 18.2 | 27.4 |

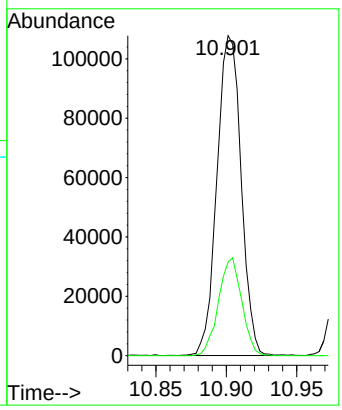





#71
2-Chlorotoluene
Concen: 2.075 ppbv
RT: 10.901 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 91 Resp: 12885

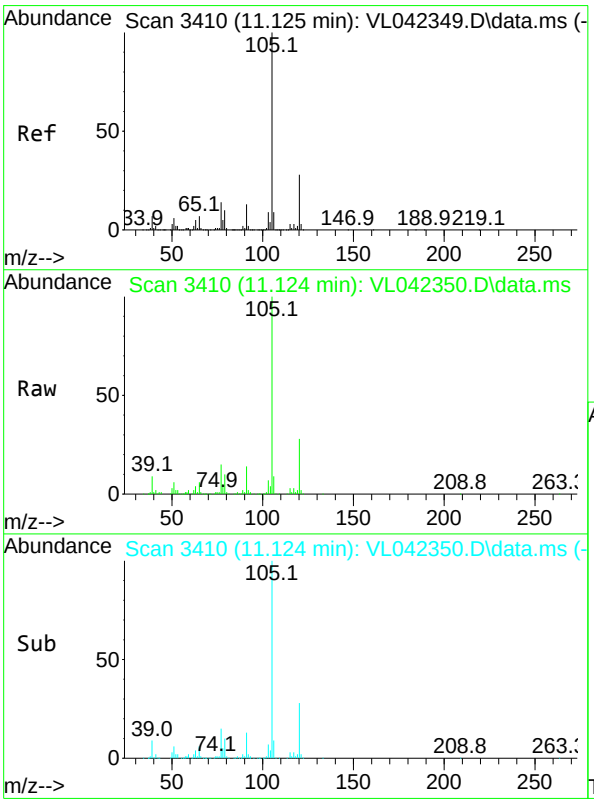
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 29.5 | 11.4 | 45.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

**Manual Integrations**
**APPROVED**

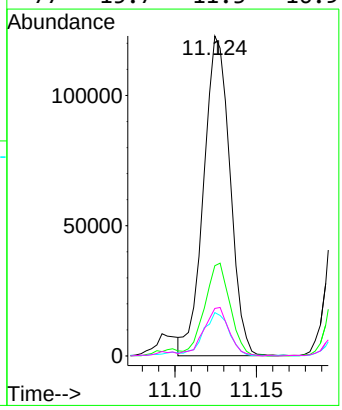
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

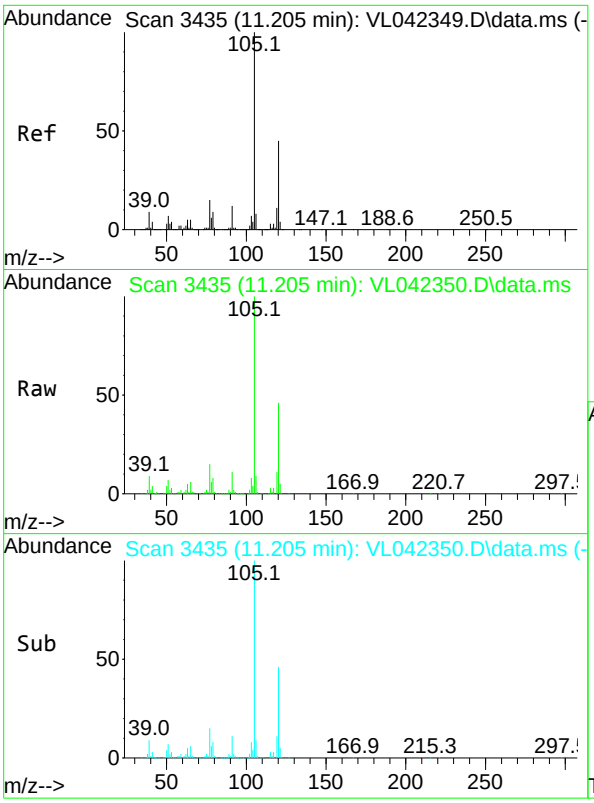



#72
4-Ethyltoluene
Concen: 2.091 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:105 Resp: 137872

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 30.1 | 23.2 | 34.8 |
| 91 | 14.4 | 10.4 | 15.6 |
| 77 | 15.7 | 11.3 | 16.9 |

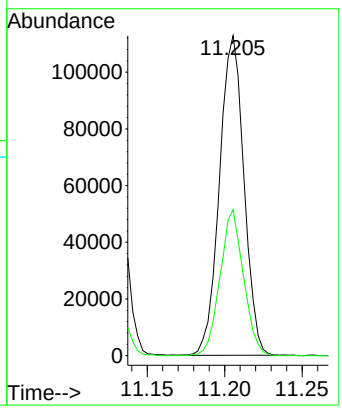





#73
1,3,5-Trimethylbenzene
Concen: 2.123 ppbv
RT: 11.205 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:105 Resp: 12358

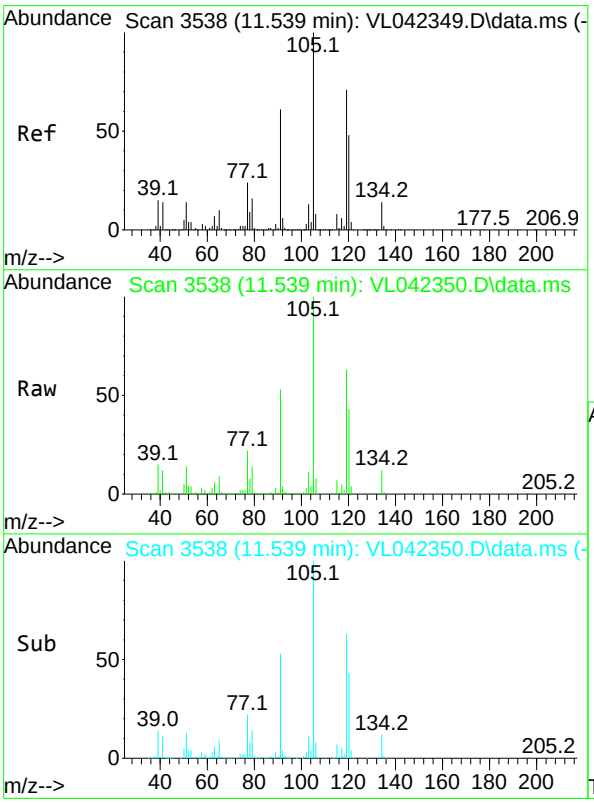
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.7 | 35.6 | 53.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

**Manual Integrations**
**APPROVED**

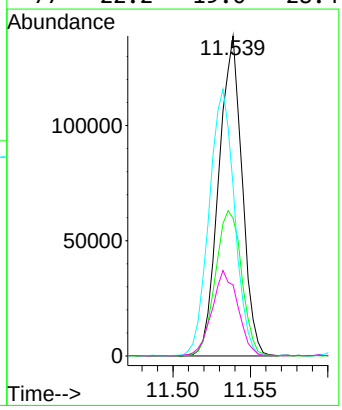
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

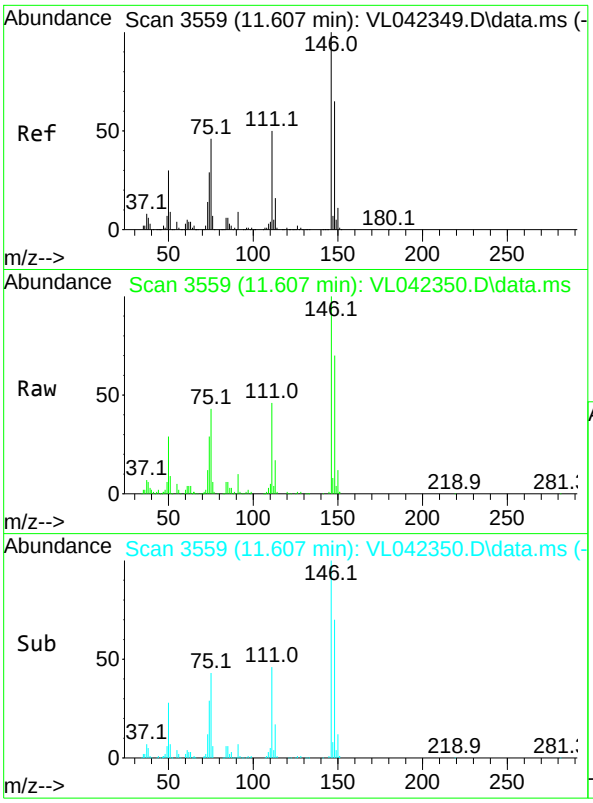



#74
1,2,4-Trimethylbenzene
Concen: 2.140 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:105 Resp: 145510

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 43.0 | 38.1 | 57.1 |
| 91 | 53.1 | 48.8 | 73.2 |
| 77 | 22.2 | 19.0 | 28.4 |

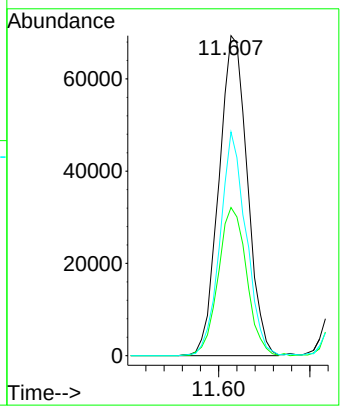





#75
1,3-Dichlorobenzene
Concen: 2.124 ppbv
RT: 11.607 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:146 Resp: 7508

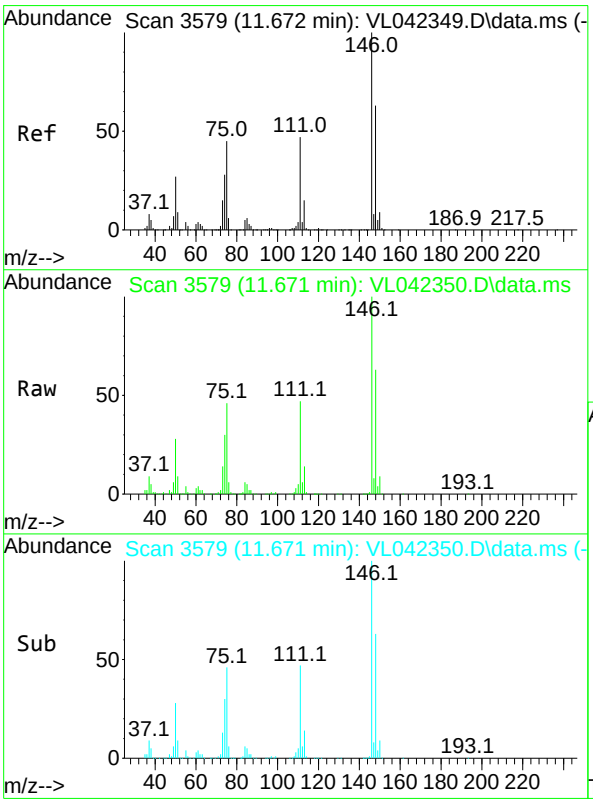
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 46.3 | 24.3 | 72.8 |
| 148 | 64.3 | 31.6 | 94.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

**Manual Integrations**
**APPROVED**

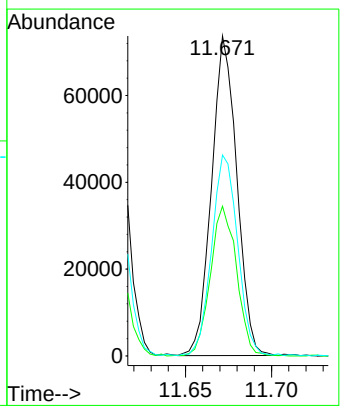
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

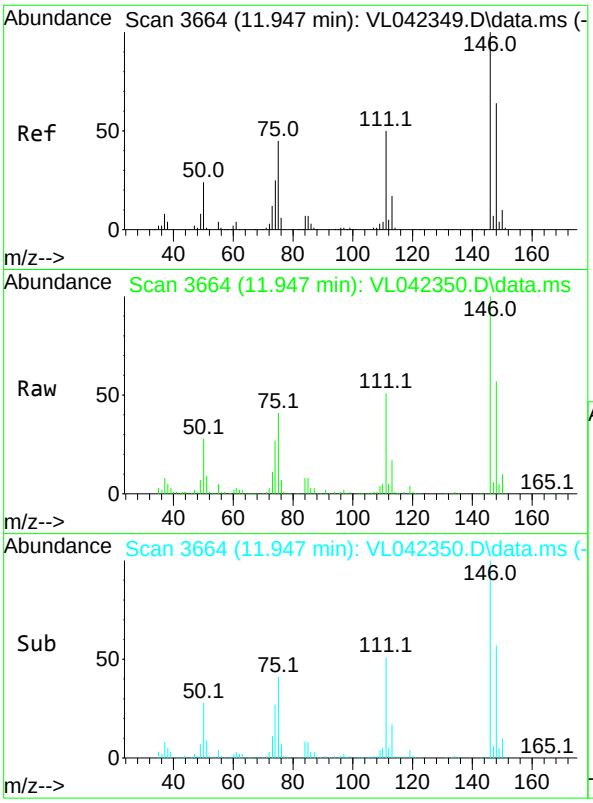



#76
1,4-Dichlorobenzene
Concen: 2.120 ppbv
RT: 11.671 min Scan# 3579
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:146 Resp: 75323

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 48.4 | 24.2 | 72.6 |
| 148 | 65.1 | 32.1 | 96.5 |

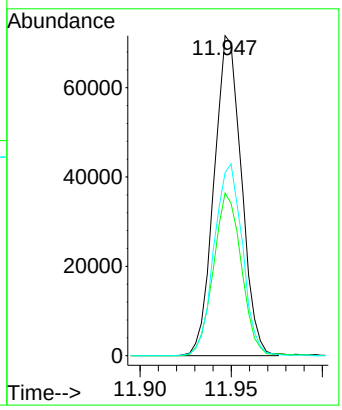





#77
1,2-Dichlorobenzene
Concen: 2.176 ppbv
RT: 11.947 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:146 Resp: 7478

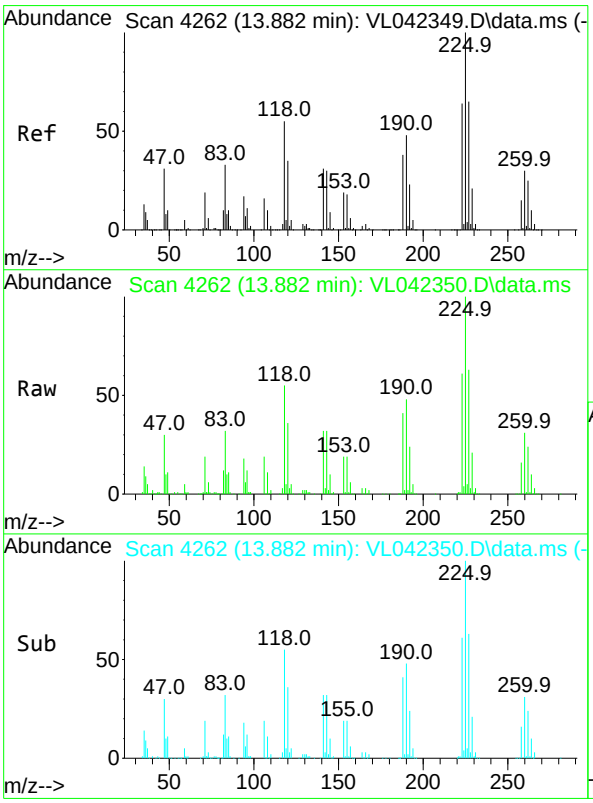
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 52.0 | 25.3 | 75.9 |
| 148 | 61.8 | 31.5 | 94.5 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

**Manual Integrations**
**APPROVED**

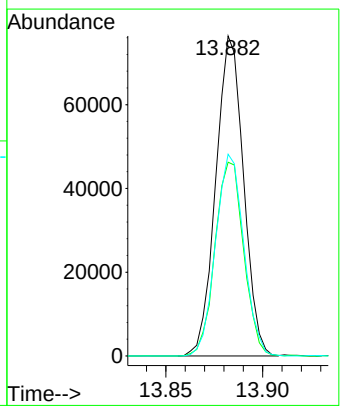
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

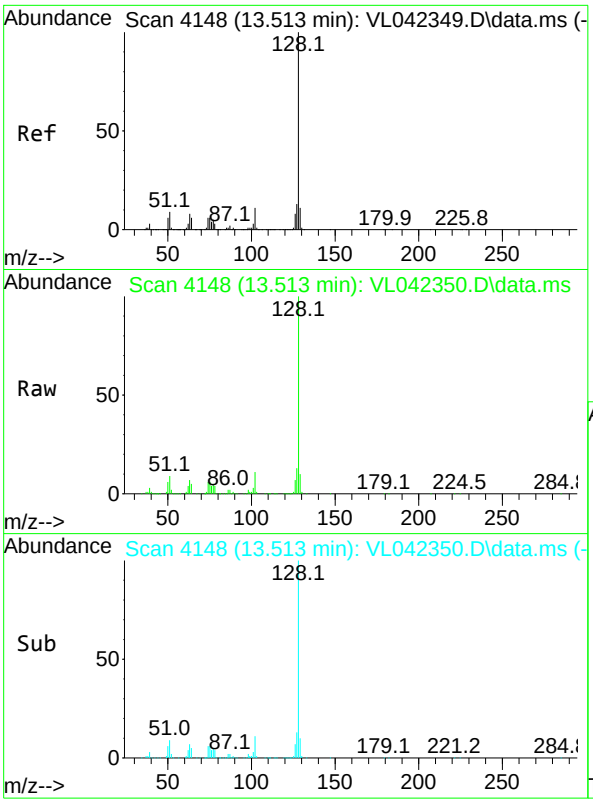



#78
Hexachloro-1,3-Butadiene
Concen: 2.194 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:225 Resp: 76158

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.6 | 50.3 | 75.5 |
| 227 | 64.1 | 51.5 | 77.3 |






#79
Naphthalene
Concen: 2.401 ppbv
RT: 13.513 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

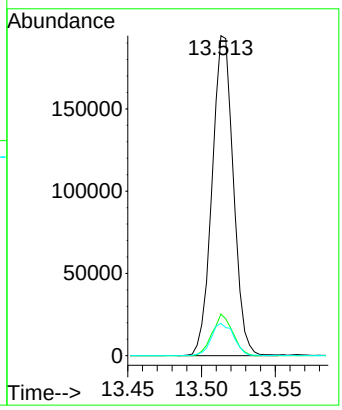
Tgt Ion:128 Resp: 19523

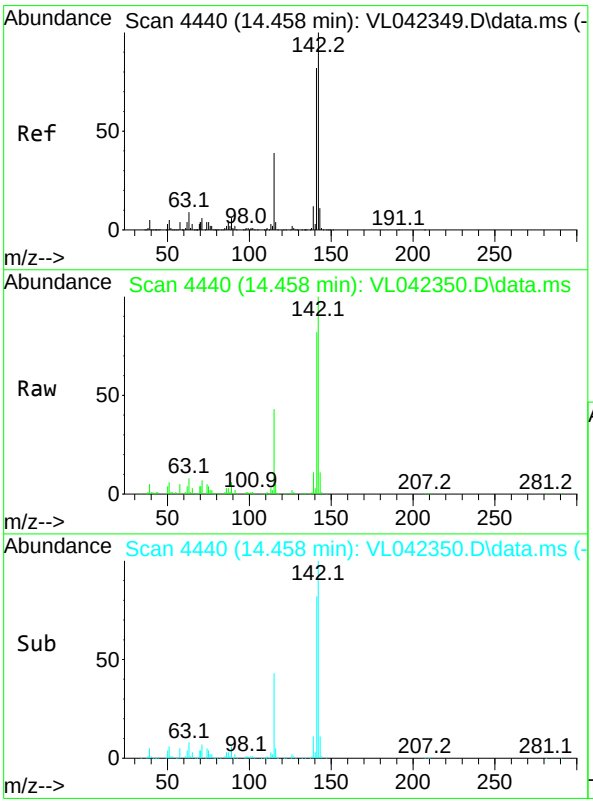
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.0 | 10.6 | 15.8 |
| 129 | 10.1 | 8.6 | 12.8 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

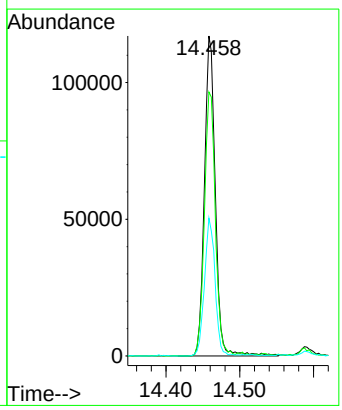


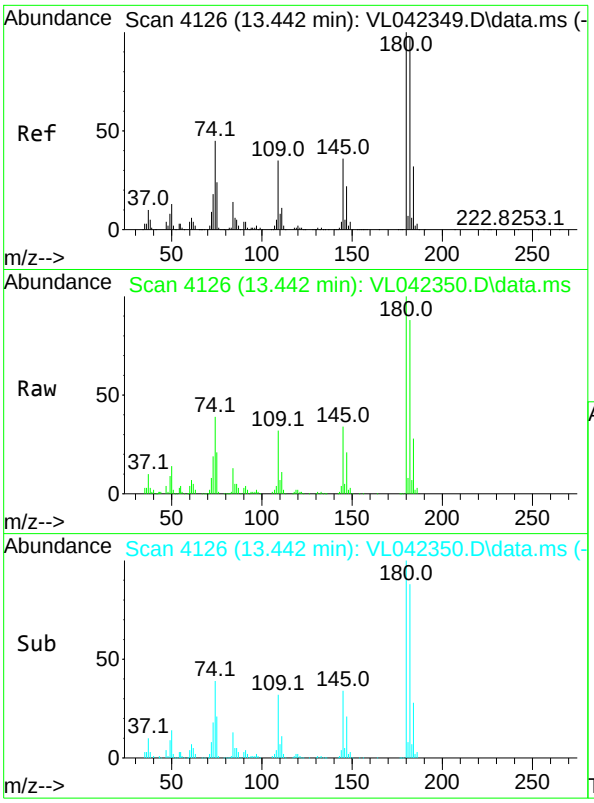




#80
Naphthalene,2-methyl-
Concen: 2.574 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:142 Resp: 119262

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 84.7 | 66.8 | 100.2 |
| 115 | 42.2 | 33.4 | 50.2 |

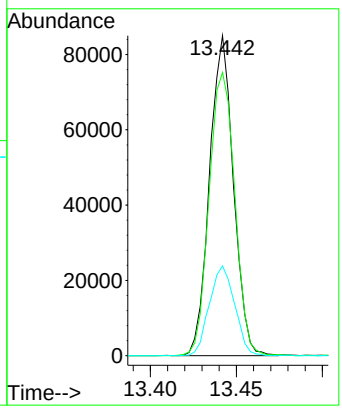





#81
1,2,4-Trichlorobenzene
Concen: 2.353 ppbv
RT: 13.442 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:180 Resp: 8215

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.1 | 76.8 | 115.2 |
| 184 | 29.8 | 24.6 | 36.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042351.D
Acq On : 17 Apr 2025 10:48
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 01:27:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.791 | 49 | 124177 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.962 | 114 | 359907 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.885 | 117 | 329090 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95 | 269087 | 9.950 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 99.500% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.499 | 85 | 22816 | 1.040 | ppbv | 93 |
| 3) Chlorodifluoromethane | 1.476 | 51 | 20573 | 0.985 | ppbv | 97 |
| 4) Chloromethane | 1.535 | 50 | 9008 | 1.038 | ppbv | 99 |
| 5) Vinyl Chloride | 1.580 | 62 | 8807 | 0.932 | ppbv | 98 |
| 6) Bromomethane | 1.671 | 94 | 4099 | 1.001 | ppbv | 91 |
| 7) Chloroethane | 1.706 | 64 | 3559 | 1.041 | ppbv | 90 |
| 8) Dichlorotetrafluoroethane | 1.554 | 85 | 19251 | 1.022 | ppbv | 100 |
| 9) Propene | 1.486 | 41 | 9892 | 1.040 | ppbv | 92 |
| 10) Heptane | 4.982 | 43 | 28507m | 1.114 | ppbv | |
| 11) Trichlorofluoromethane | 1.878 | 101 | 22428 | 1.075 | ppbv | 99 |
| 12) 1,1,2-Trichlorotrifluo... | 2.140 | 101 | 17865 | 1.047 | ppbv | 98 |
| 13) Ethanol | 1.722 | 45 | 1730m | 2.225 | ppbv | |
| 14) Bromoethene | 1.784 | 108 | 6766 | 1.052 | ppbv # | 89 |
| 15) Acetone | 1.839 | 43 | 23537 | 1.158 | ppbv | 97 |
| 16) 1,3-Butadiene | 1.609 | 39 | 10377m | 1.087 | ppbv | |
| 17) tert-Butyl alcohol | 2.043 | 59 | 26477 | 1.051 | ppbv # | 90 |
| 18) 1,1-Dichloroethene | 2.036 | 96 | 7890 | 0.962 | ppbv | 94 |
| 19) Isopropyl Alcohol | 1.888 | 45 | 12175 | 1.078 | ppbv # | 39 |
| 20) Methylene Chloride | 2.062 | 84 | 9046 | 1.136 | ppbv | 87 |
| 21) Allyl Chloride | 2.098 | 41 | 15057 | 1.073 | ppbv | 91 |
| 22) trans-1,2-Dichloroethene | 2.344 | 96 | 9421 | 1.038 | ppbv | 96 |
| 23) Vinyl Acetate | 2.467 | 43 | 9234 | 1.122 | ppbv # | 90 |
| 24) 1,1-Dichloroethane | 2.409 | 63 | 18236 | 1.058 | ppbv | 99 |
| 25) Ethyl Acetate | 2.842 | 43 | 51494 | 1.027 | ppbv # | 97 |
| 26) Hexane | 2.826 | 57 | 21350 | 1.053 | ppbv | 95 |
| 27) Carbon Disulfide | 2.153 | 76 | 20739 | 0.955 | ppbv # | 1 |
| 28) Methyl tert-Butyl Ether | 2.444 | 73 | 14164 | 1.066 | ppbv # | 85 |
| 29) Chloroform | 2.852 | 83 | 28973 | 1.011 | ppbv | 100 |
| 30) Cyclohexane | 3.862 | 84 | 16547m | 1.013 | ppbv | |
| 31) cis-1,2-Dichloroethene | 2.723 | 61 | 19904 | 1.032 | ppbv | 97 |
| 32) 1,1,1-Trichloroethane | 3.376 | 97 | 31653 | 1.030 | ppbv | 98 |
| 34) 2-Butanone | 2.564 | 43 | 29735 | 1.045 | ppbv | 99 |
| 35) Carbon Tetrachloride | 3.768 | 117 | 29875 | 0.917 | ppbv | 94 |
| 36) Benzene | 3.661 | 78 | 38707 | 0.997 | ppbv | 95 |
| 37) 1,2-Dichloroethane | 3.224 | 62 | 23284 | 0.999 | ppbv | 97 |
| 38) Trichloroethene | 4.551 | 130 | 16119 | 0.947 | ppbv | 96 |
| 39) 1,2-Dichloropropane | 4.318 | 63 | 14866 | 1.027 | ppbv | 96 |
| 40) 1,4-Dioxane | 4.597 | 88 | 8737m | 1.114 | ppbv | |
| 41) Tetrahydrofuran | 3.062 | 42 | 17259 | 1.049 | ppbv | 96 |
| 42) Bromodichloromethane | 4.490 | 83 | 32721 | 1.009 | ppbv # | 98 |
| 43) Methyl Methacrylate | 4.885 | 69 | 18699m | 1.073 | ppbv | |
| 44) 2,2,4-Trimethylpentane | 4.642 | 57 | 68946m | 1.027 | ppbv | |
| 45) t-1,3-Dichloropropene | 6.416 | 75 | 18347m | 1.026 | ppbv | |

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042351.D
Acq On : 17 Apr 2025 10:48
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 01:27:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.603 | 75 | 22189m | 1.015 | ppbv | | |
| 47) 1,1,2-Trichloroethane | 6.587 | 97 | 15457m | 1.048 | ppbv | | |
| 48) Dibromochloromethane | 7.390 | 129 | 25948 | 0.997 | ppbv | | 100 |
| 49) Bromoform | 9.484 | 173 | 22413 | 0.984 | ppbv | | 98 |
| 50) 4-Methyl-2-Pentanone | 5.765 | 43 | 49725 | 1.049 | ppbv | | 97 |
| 51) 2-Hexanone | 7.445 | 43 | 47178 | 1.103 | ppbv | | 99 |
| 52) Tetrachloroethene | 8.228 | 164 | 14154 | 0.943 | ppbv | | 93 |
| 53) Toluene | 6.940 | 91 | 46611 | 1.001 | ppbv | | 100 |
| 54) 1,2-Dibromoethane | 7.658 | 107 | 21780 | 1.036 | ppbv | | 93 |
| 56) 1,1,1,2-Tetrachloroethane | 8.927 | 131 | 21052 | 1.057 | ppbv | | 95 |
| 57) Chlorobenzene | 8.921 | 112 | 35113 | 1.026 | ppbv | # | 95 |
| 58) Ethyl Benzene | 9.354 | 91 | 68703 | 1.054 | ppbv | | 96 |
| 59) m/p-Xylene | 9.552 | 91 | 110702m | 2.101 | ppbv | | |
| 60) o-Xylene | 9.966 | 91 | 55831 | 1.056 | ppbv | | 99 |
| 61) Styrene | 9.872 | 104 | 25544 | 1.012 | ppbv | | 100 |
| 62) Isopropylbenzene | 10.542 | 105 | 81286 | 1.047 | ppbv | | 100 |
| 63) 1,1,2,2-Tetrachloroethane | 9.966 | 83 | 32410 | 0.943 | ppbv | | 99 |
| 64) n-propylbenzene | 10.989 | 120 | 19898 | 1.019 | ppbv | | 90 |
| 65) tert-Butylbenzene | 11.533 | 119 | 77598 | 1.087 | ppbv | | 92 |
| 66) Benzyl Chloride | 11.617 | 91 | 7864 | 1.003 | ppbv | # | 91 |
| 67) sec-Butylbenzene | 11.769 | 105 | 105919 | 1.067 | ppbv | | 97 |
| 69) p-Isopropyltoluene | 11.928 | 119 | 92733 | 1.075 | ppbv | | 97 |
| 70) n-Butylbenzene | 12.284 | 91 | 96306 | 1.072 | ppbv | | 99 |
| 71) 2-Chlorotoluene | 10.905 | 91 | 63321 | 1.040 | ppbv | | 99 |
| 72) 4-Ethyltoluene | 11.128 | 105 | 69698 | 1.078 | ppbv | | 99 |
| 73) 1,3,5-Trimethylbenzene | 11.206 | 105 | 60927 | 1.067 | ppbv | | 99 |
| 74) 1,2,4-Trimethylbenzene | 11.539 | 105 | 73888 | 1.108 | ppbv | | 95 |
| 75) 1,3-Dichlorobenzene | 11.610 | 146 | 36877 | 1.064 | ppbv | | 98 |
| 76) 1,4-Dichlorobenzene | 11.675 | 146 | 36692 | 1.053 | ppbv | | 98 |
| 77) 1,2-Dichlorobenzene | 11.950 | 146 | 35977 | 1.068 | ppbv | | 97 |
| 78) Hexachloro-1,3-Butadiene | 13.886 | 225 | 37377 | 1.098 | ppbv | | 99 |
| 79) Naphthalene | 13.517 | 128 | 90710 | 1.138 | ppbv | | 99 |
| 80) Naphthalene,2-methyl- | 14.462 | 142 | 50487 | 1.111 | ppbv | | 98 |
| 81) 1,2,4-Trichlorobenzene | 13.442 | 180 | 36764 | 1.074 | ppbv | | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

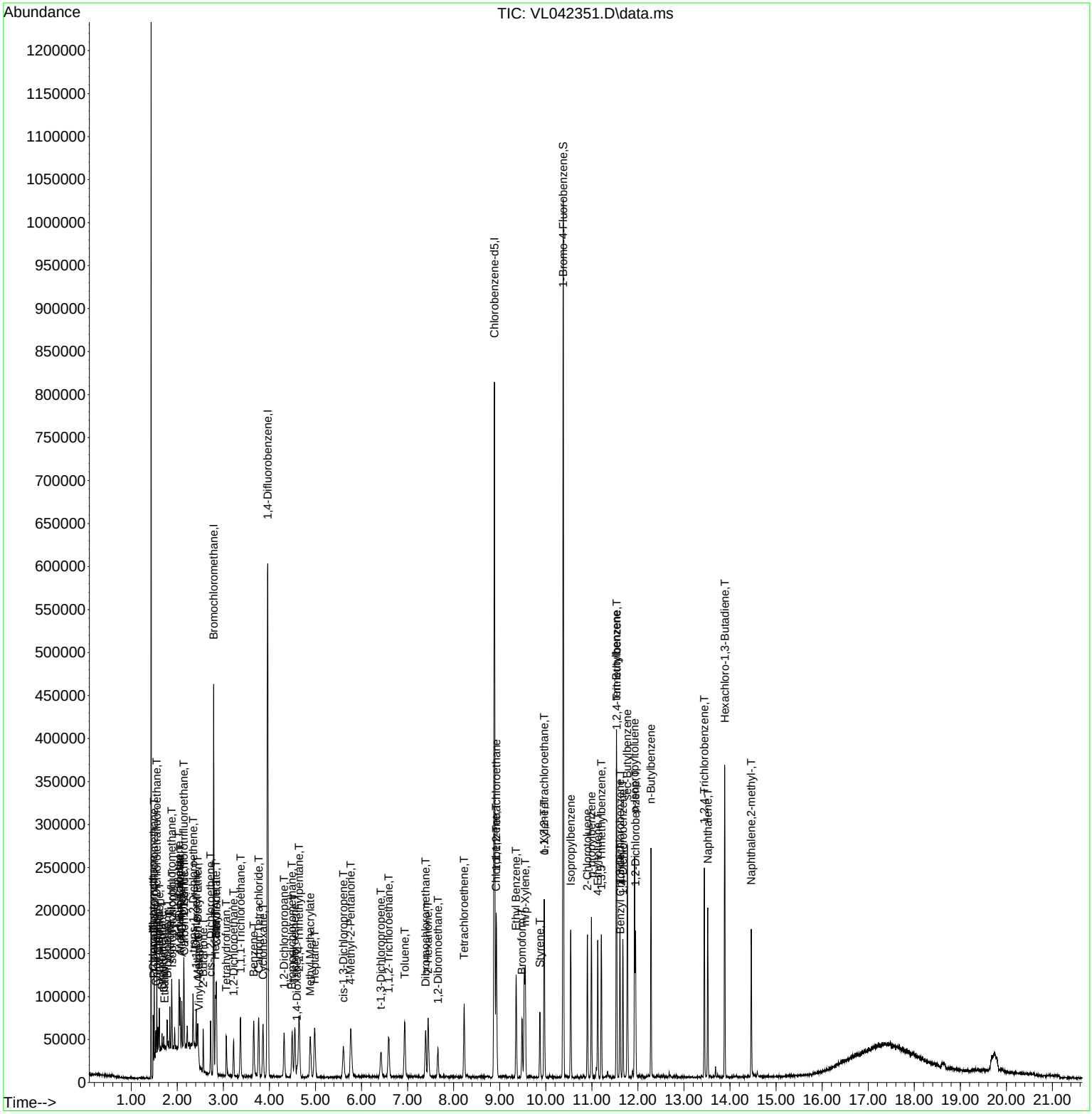
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042351.D
Acq On : 17 Apr 2025 10:48
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

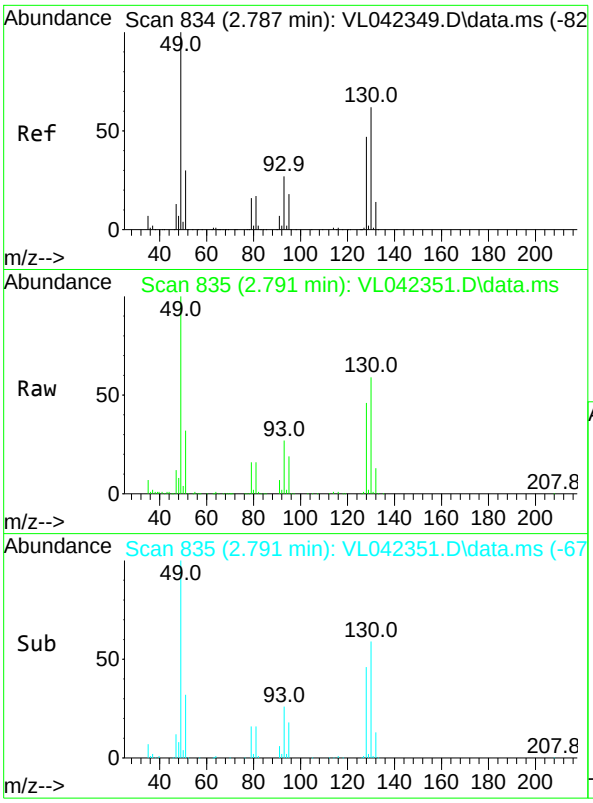
Quant Time: Apr 18 01:27:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

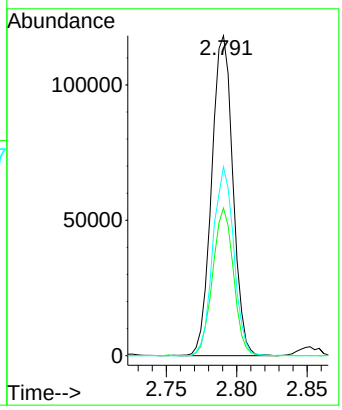





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 8
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 49 Resp: 12417

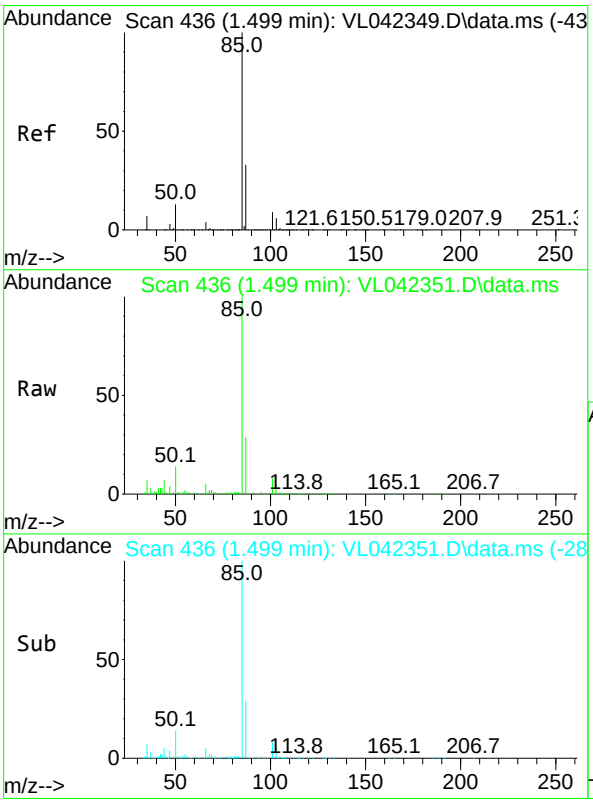
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 45.2 | 22.8 | 68.4 |
| 130 | 58.1 | 29.3 | 88.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

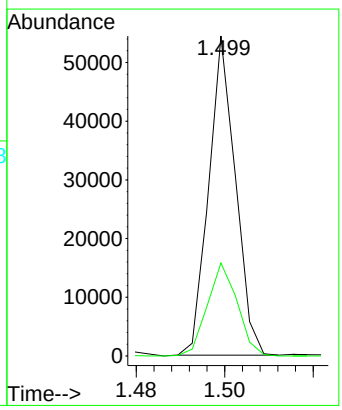
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

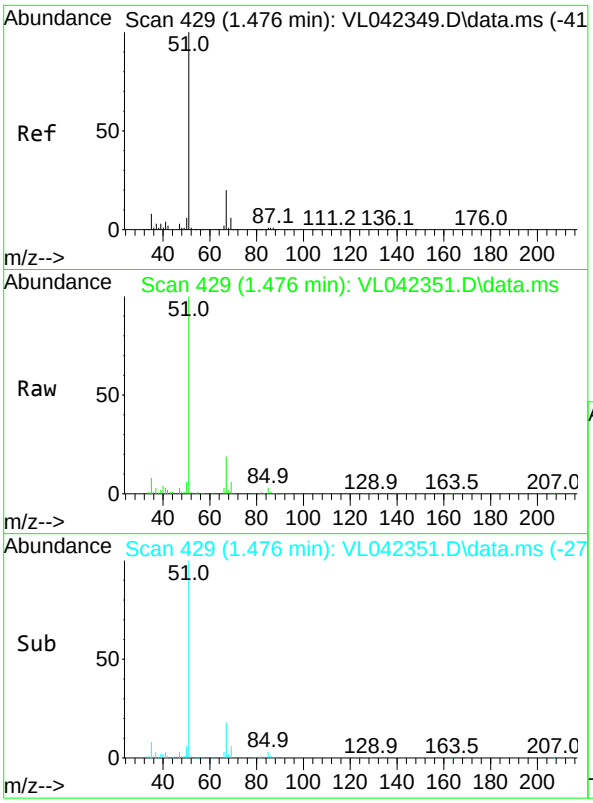



#2
Dichlorodifluoromethane
Concen: 1.040 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 85 Resp: 22816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 29.1 | 26.6 | 39.8 |

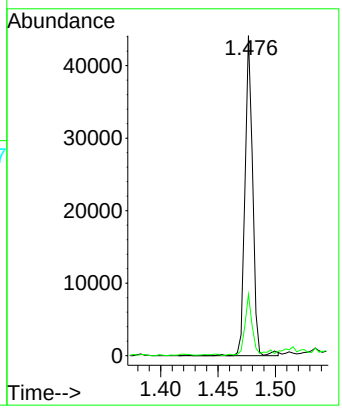





#3
Chlorodifluoromethane
Concen: 0.985 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 51 Resp: 2057

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 19.1 | 16.2 | 24.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/18/2025
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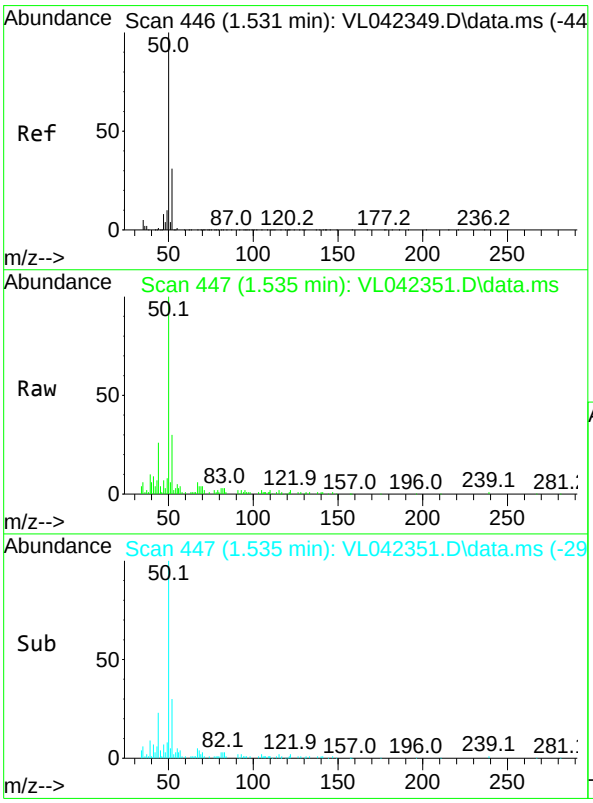
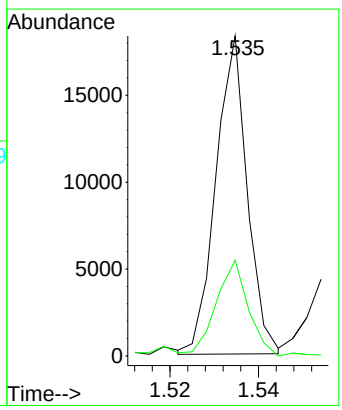
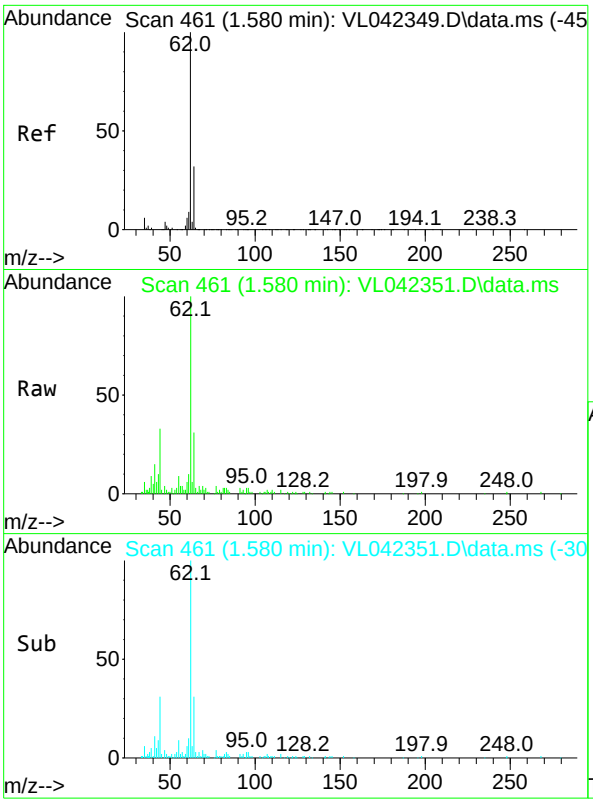



#4
Chloromethane
Concen: 1.038 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 50 Resp: 9008

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 30.4 | 24.7 | 37.1 |

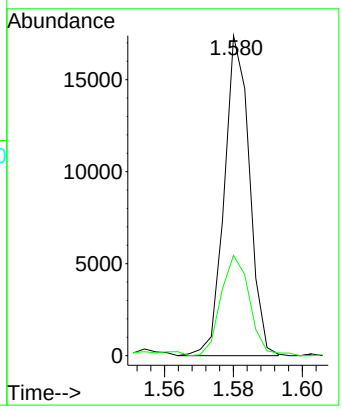





#5
Vinyl Chloride
Concen: 0.932 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 62 Resp: 880

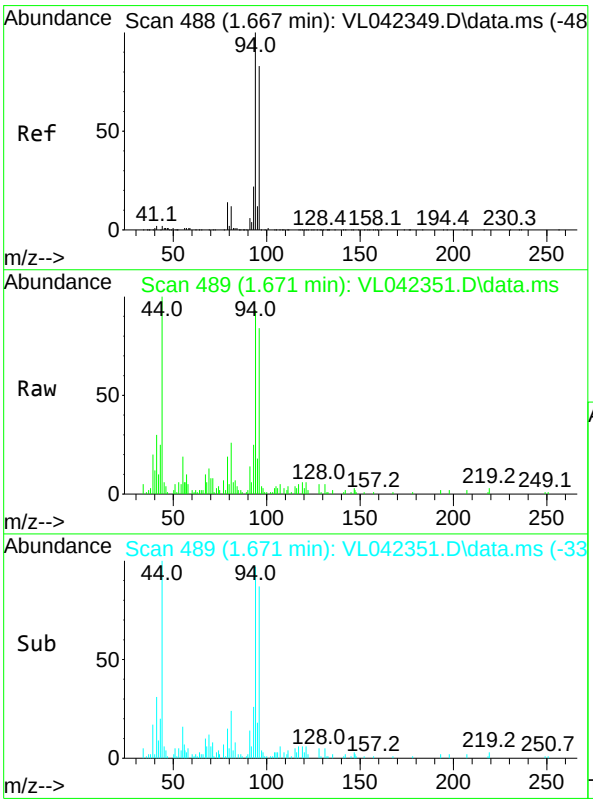
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 30.5 | 25.4 | 38.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

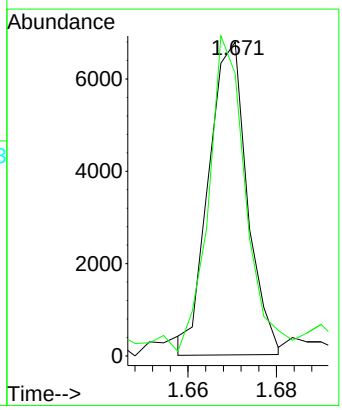
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

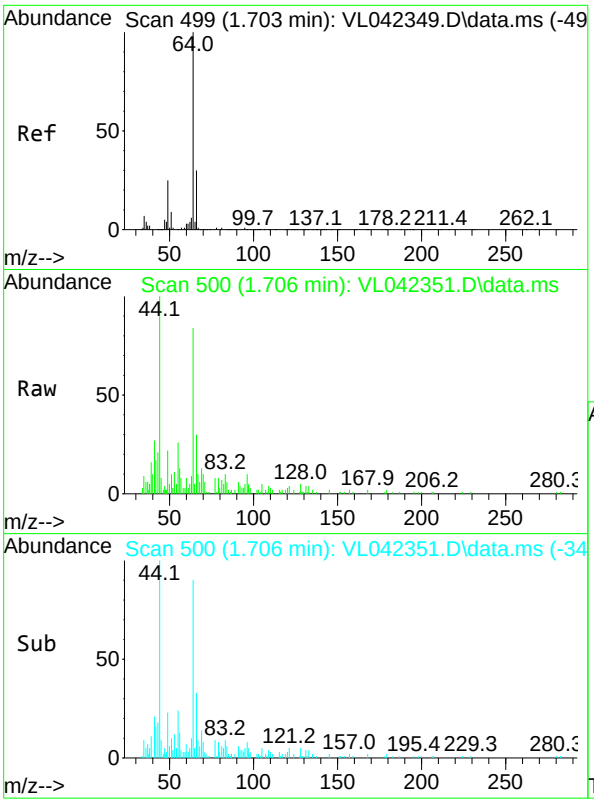



#6
Bromomethane
Concen: 1.001 ppbv
RT: 1.671 min Scan# 489
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 94 Resp: 4099

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 91.0 | 66.2 | 99.2 |

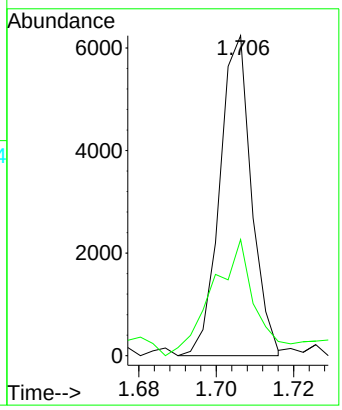





#7
Chloroethane
Concen: 1.041 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 64 Resp: 355

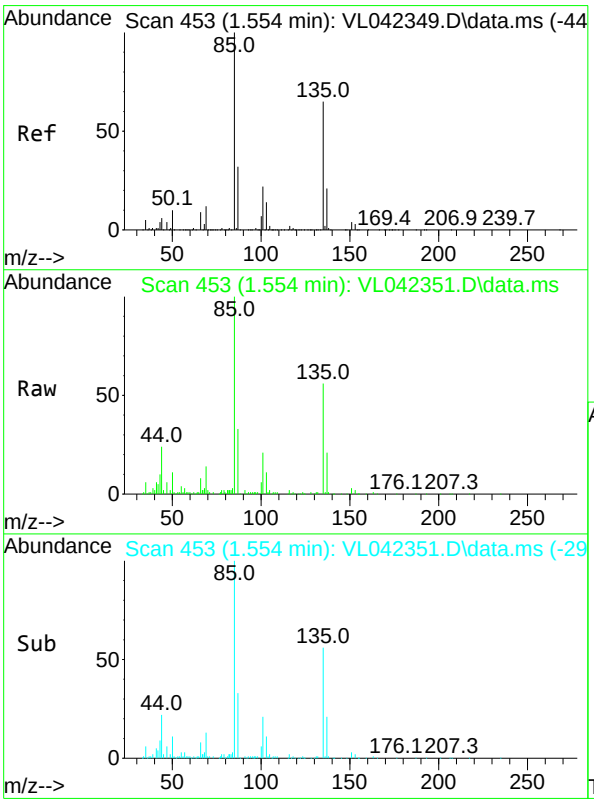
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 36.3 | 24.6 | 37.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

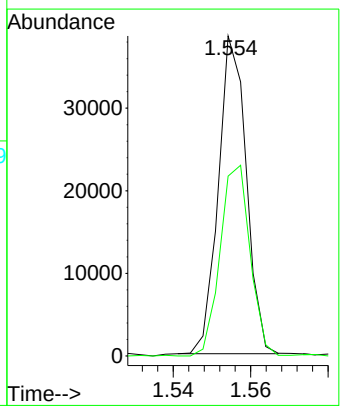
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

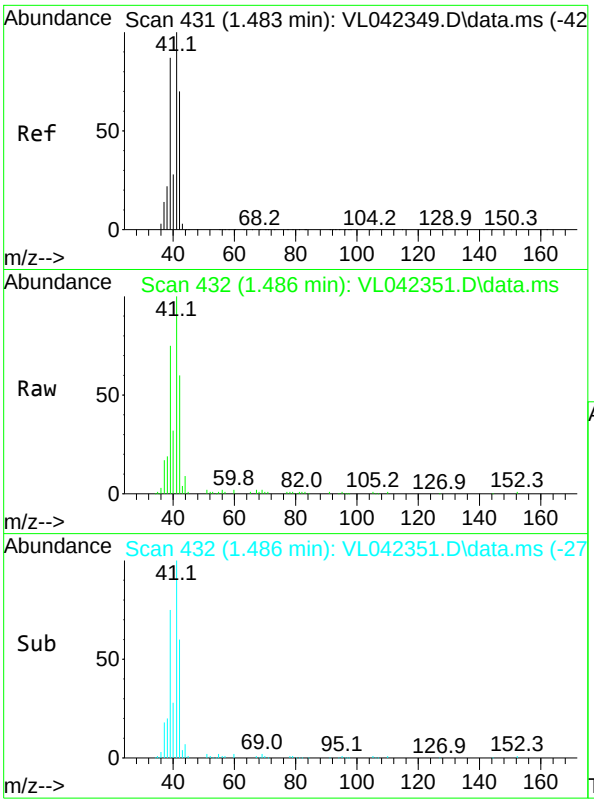



#8
Dichlorotetrafluoroethane
Concen: 1.022 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 85 Resp: 19251

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 65.2 | 52.2 | 78.2 |

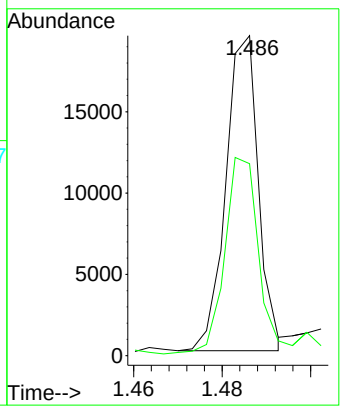





#9
Propene
Concen: 1.040 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 41 Resp: 989

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 77.2 | 56.2 | 84.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
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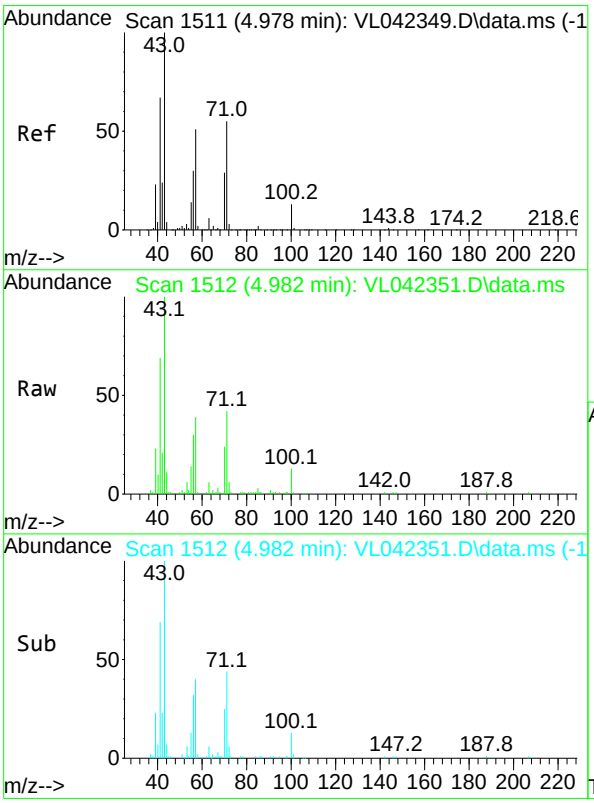
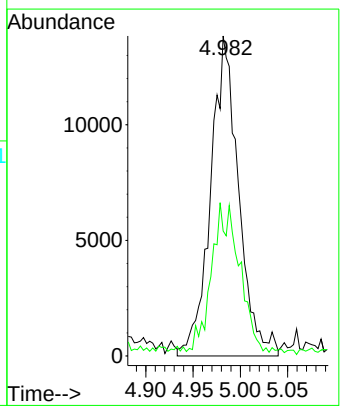
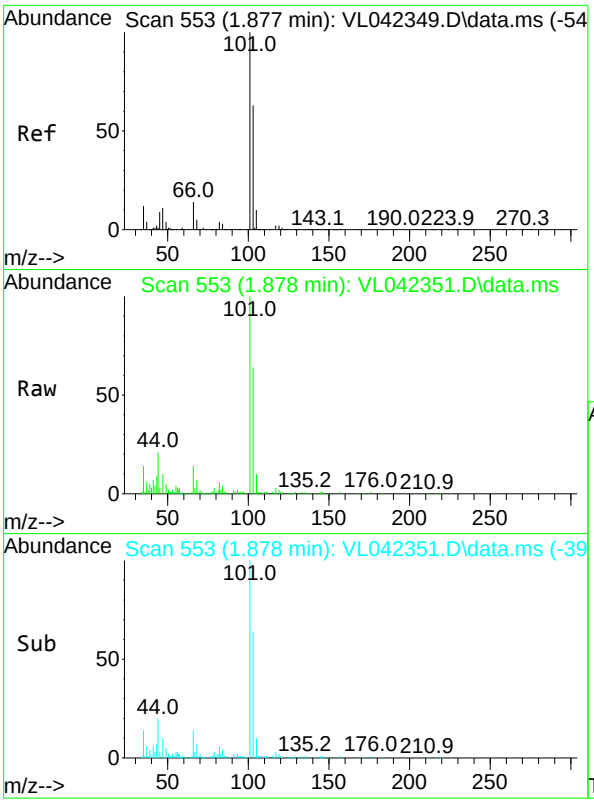



#10
Heptane
Concen: 1.114 ppbv m
RT: 4.982 min Scan# 1512
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 43 Resp: 28507

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 48.1 | 39.9 | 59.9 |






#11
Trichlorofluoromethane
Concen: 1.075 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:101 Resp: 2242

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.6 | 50.1 | 75.1 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
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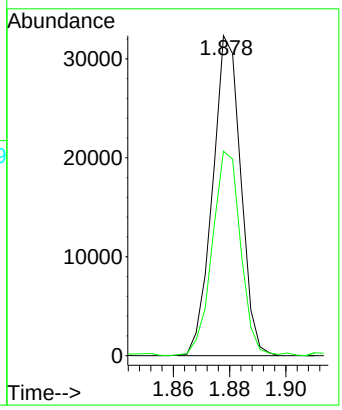
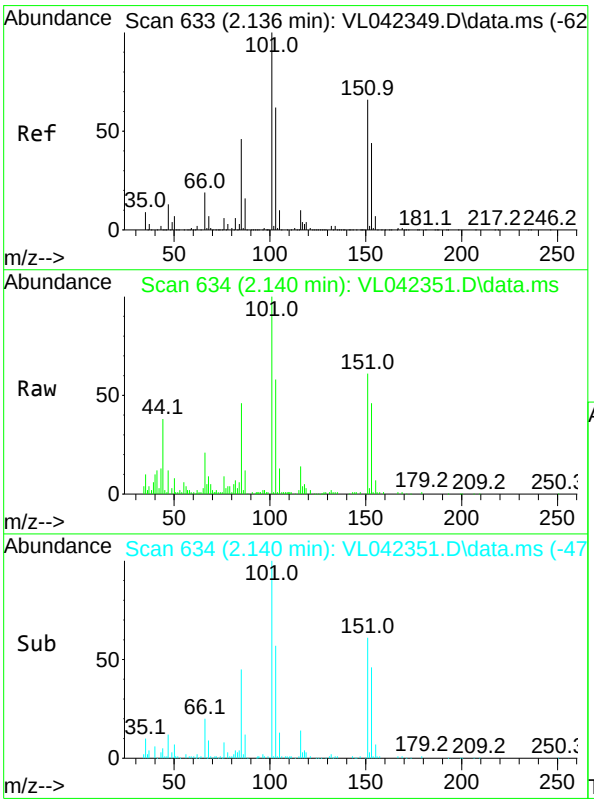
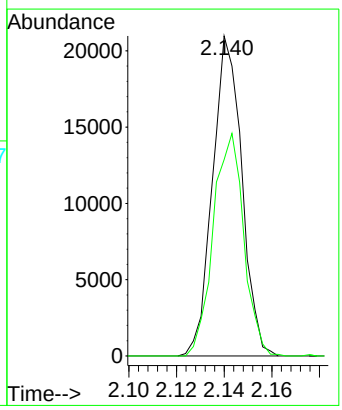


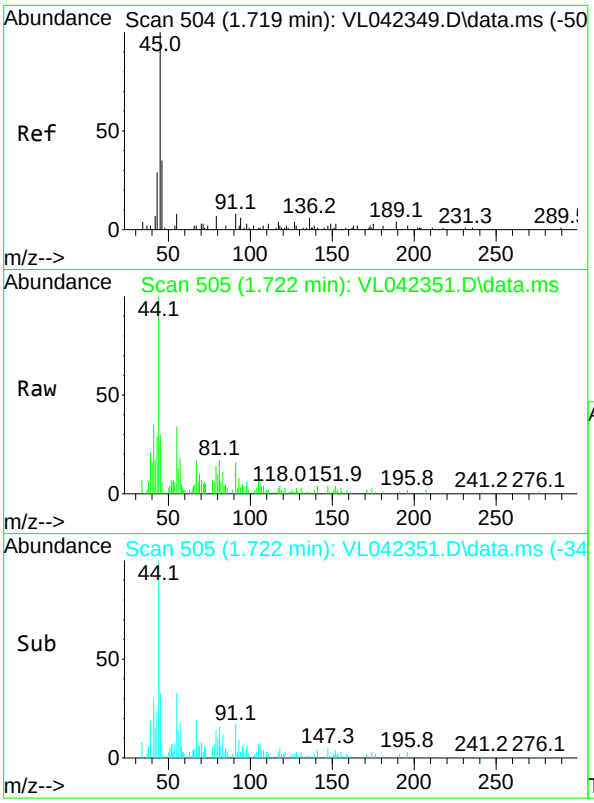




#12
1,1,2-Trichlorotrifluoroethane
Concen: 1.047 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:101 Resp: 17865

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 72.6 | 57.0 | 85.6 |

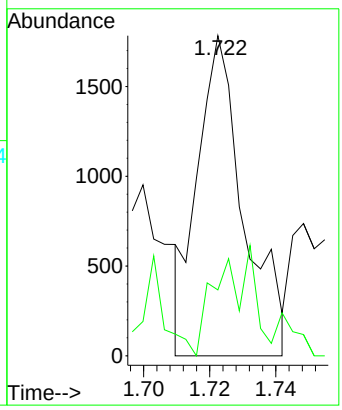





#13
Ethanol
Concen: 2.225 ppbv m
RT: 1.722 min Scan# 5(
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 45 Resp: 173(

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 44.9 | 21.9 | 87.7 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

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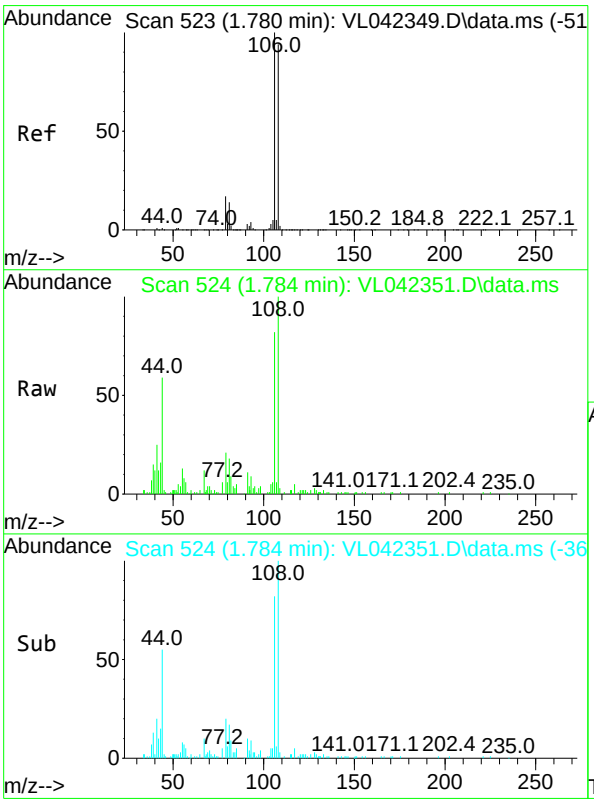
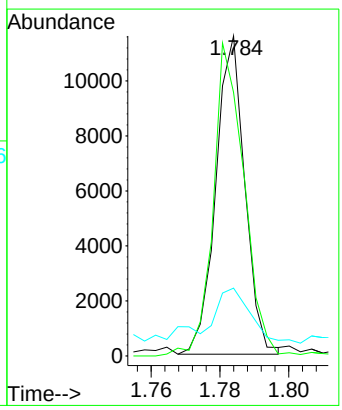
Supervised By :Mahesh Dadoda 04/18/2025

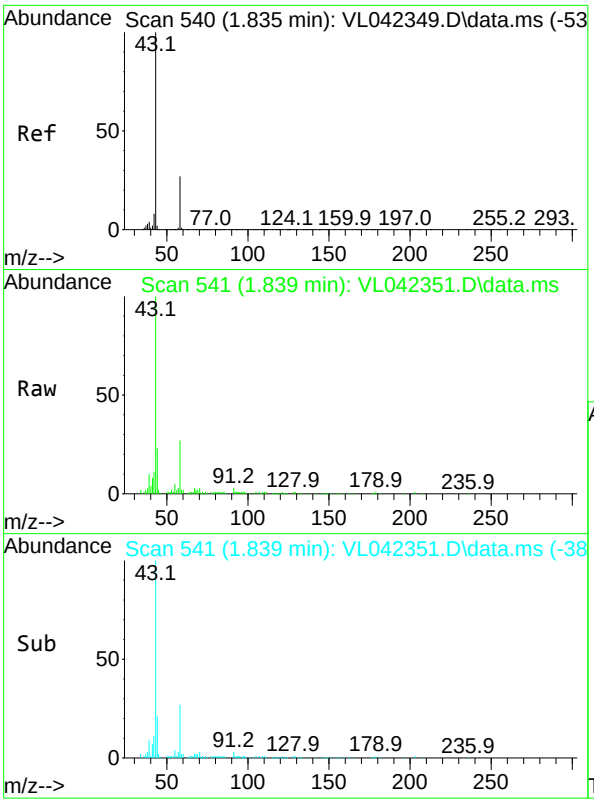



#14
Bromoethene
Concen: 1.052 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:108 Resp: 6766

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 106 | 104.7 | 85.9 | 128.9 |
| 79 | 45.4 | 13.9 | 20.9# |

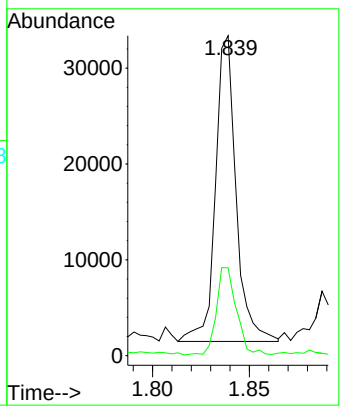





#15
Acetone
Concen: 1.158 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 43 Resp: 2353

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 29.4 | 22.4 | 33.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
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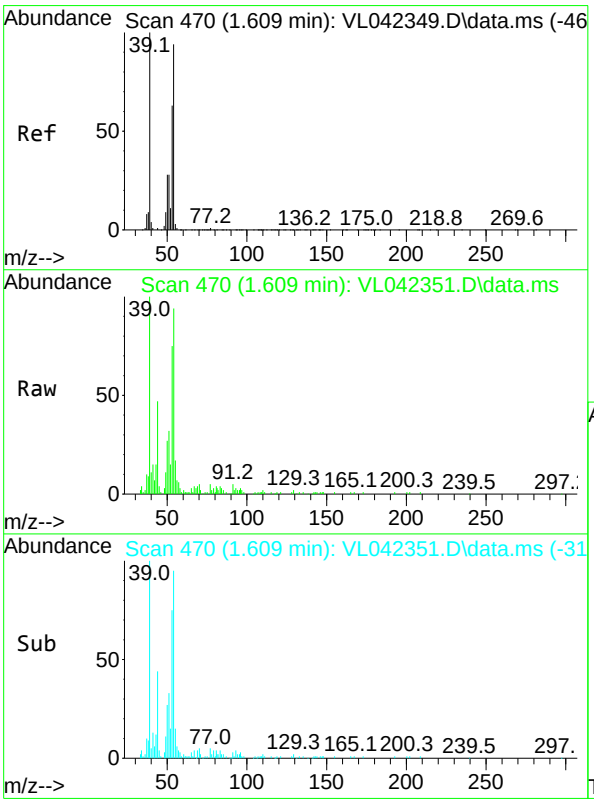
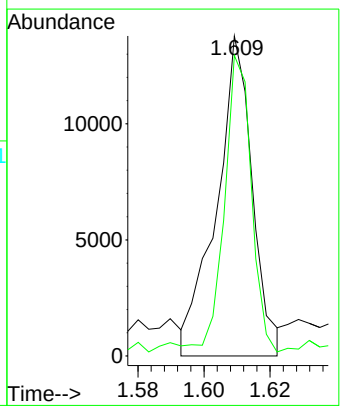
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

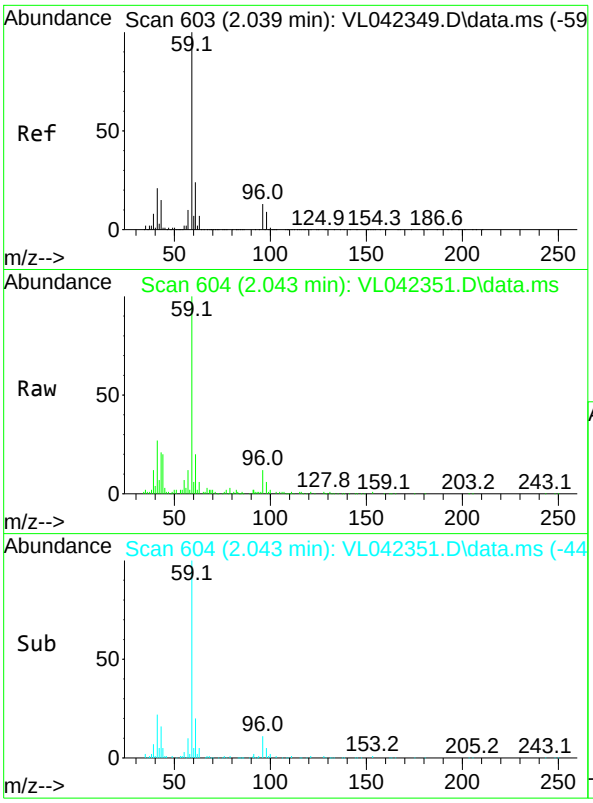



#16
1,3-Butadiene
Concen: 1.087 ppbv m
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 39 Resp: 10377

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 71.0 | 64.9 | 97.3 |






#17
tert-Butyl alcohol
Concen: 1.051 ppbv
RT: 2.043 min Scan# 6
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 59 Resp: 2647

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 14.6 | 8.7 | 13.1# |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
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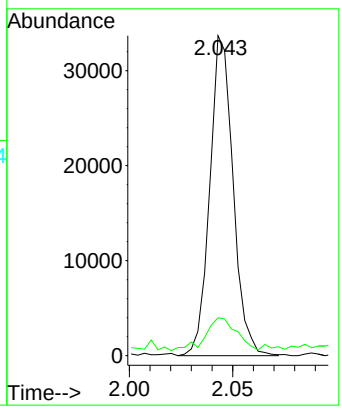
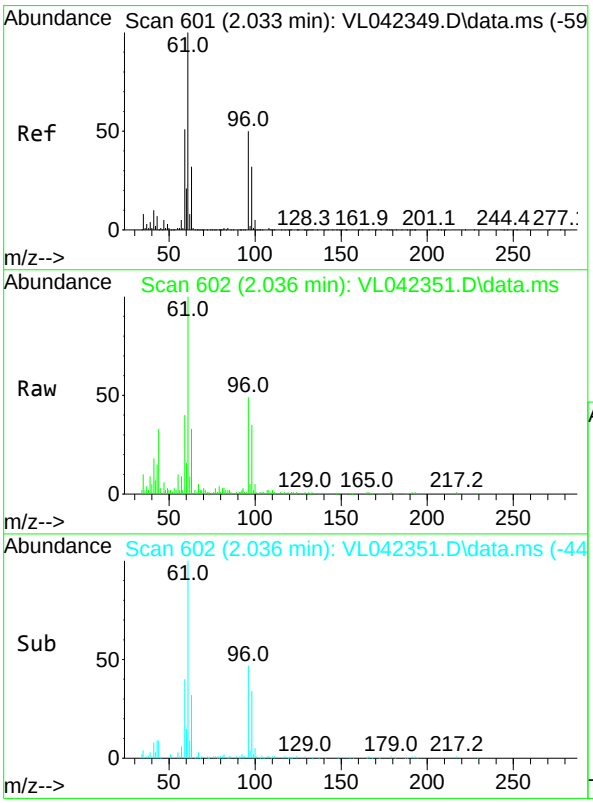
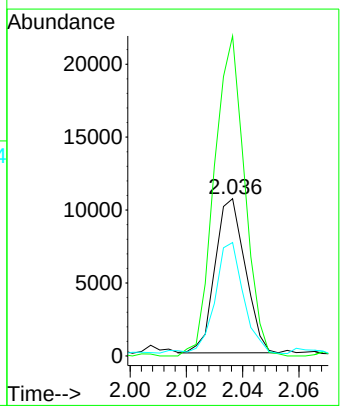


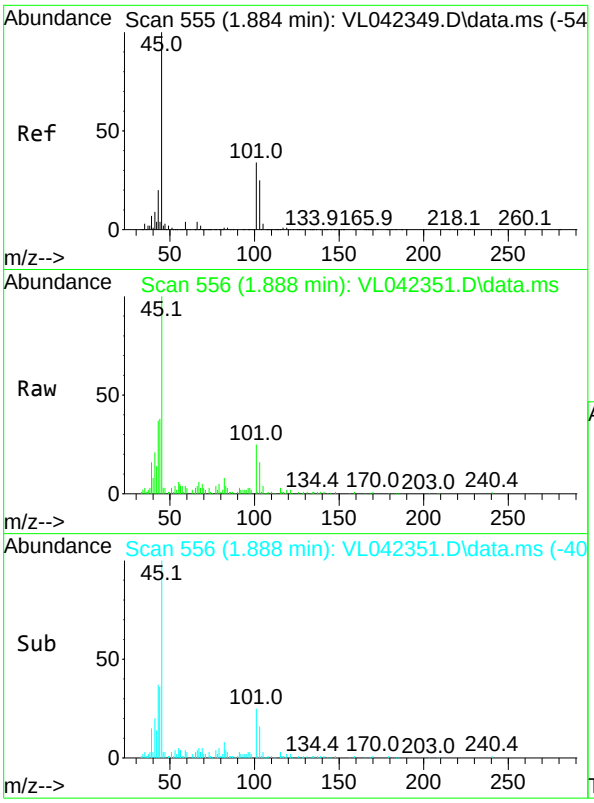




#18
1,1-Dichloroethene
Concen: 0.962 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 96 Resp: 7890

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 207.8 | 160.2 | 240.2 |
| 98 | 71.9 | 51.0 | 76.4 |






#19
Isopropyl Alcohol
Concen: 1.078 ppbv
RT: 1.888 min Scan# 5
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 45 Resp: 1217

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 3.8 | 34.5 | 51.7 |

**Instrument :**
MSVOA_L
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VSTDICC001

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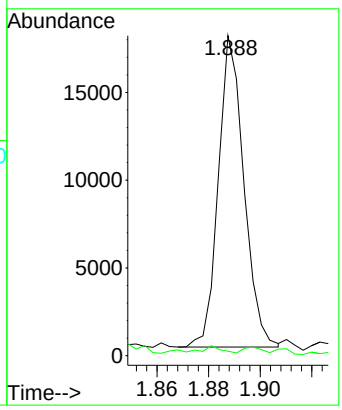
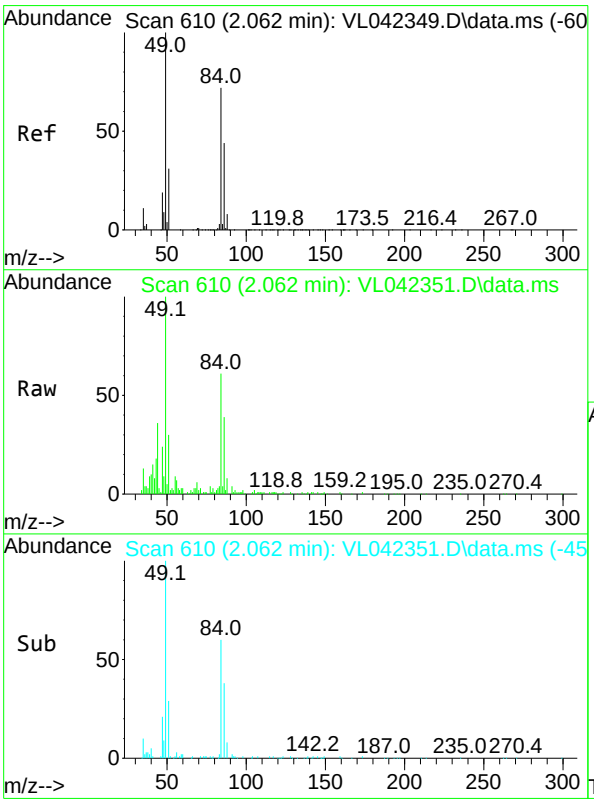
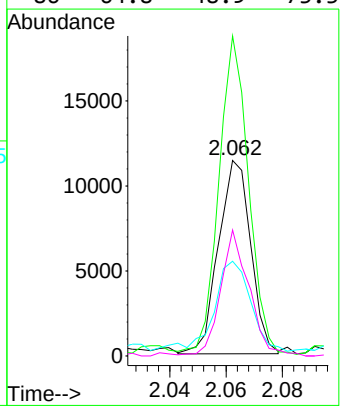


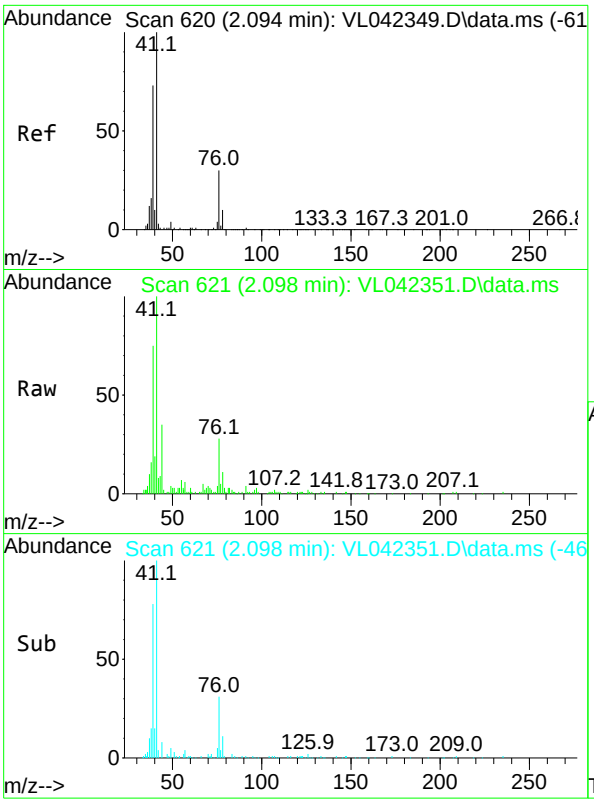




#20
Methylene Chloride
Concen: 1.136 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 84 Resp: 9046

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 164.4 | 111.6 | 167.4 |
| 51 | 44.4 | 35.1 | 52.7 |
| 86 | 64.8 | 48.9 | 73.3 |

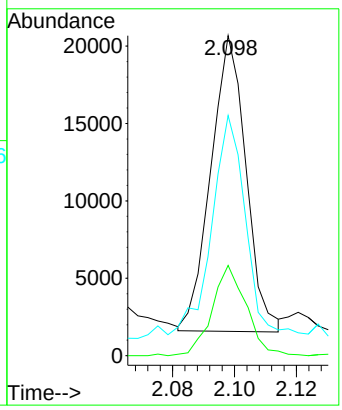





#21
Allyl Chloride
Concen: 1.073 ppbv
RT: 2.098 min Scan# 6
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 41 Resp: 1505

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 29.8 | 24.8 | 37.2 |
| 39 | 86.1 | 60.6 | 90.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
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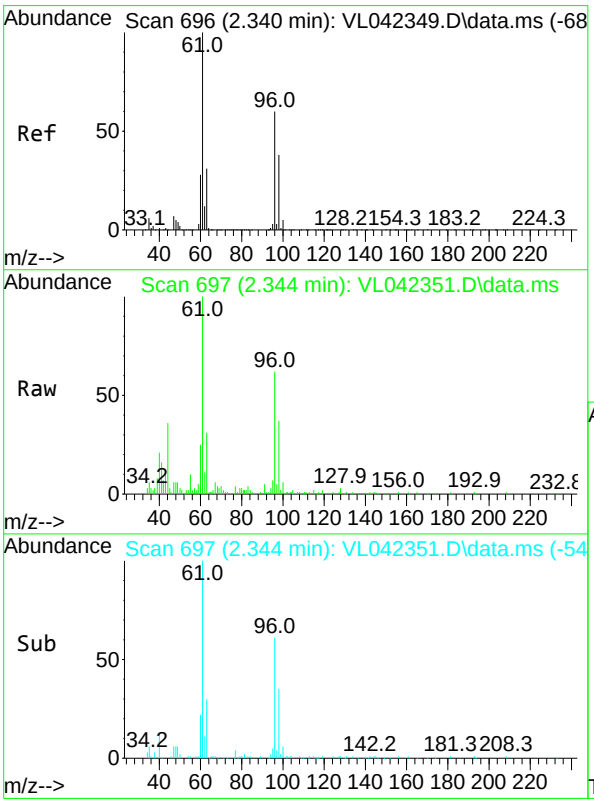
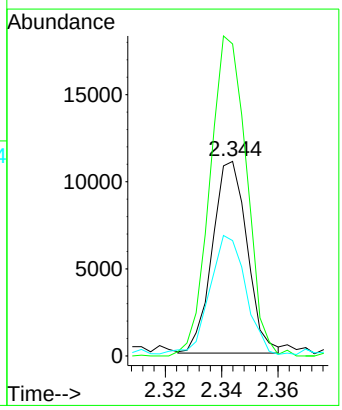
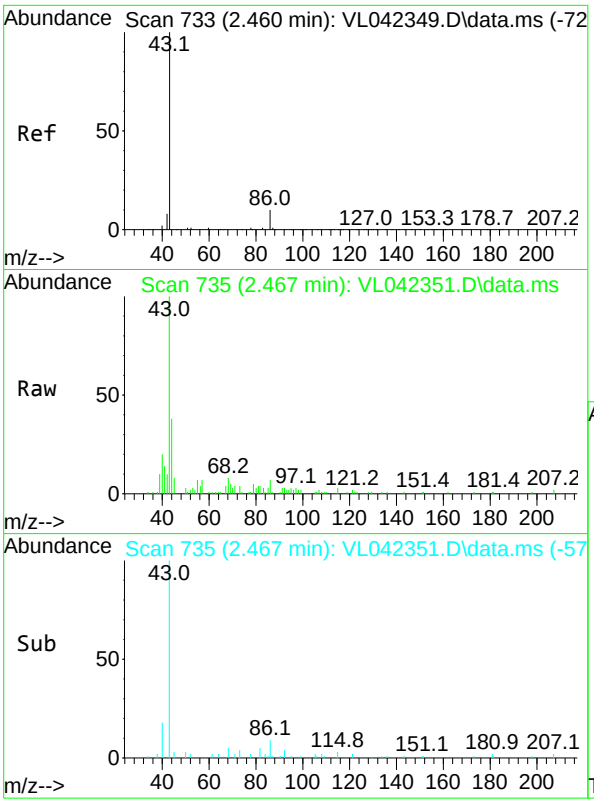



#22
trans-1,2-Dichloroethene
Concen: 1.038 ppbv
RT: 2.344 min Scan# 697
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 96 Resp: 9421

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 161.7 | 133.7 | 200.5 |
| 98 | 59.8 | 50.3 | 75.5 |

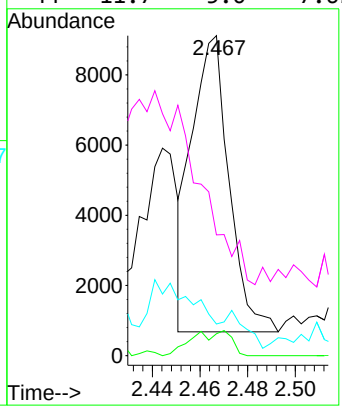





#23
Vinyl Acetate
Concen: 1.122 ppbv
RT: 2.467 min Scan# 7
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 43 Resp: 923

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 7.4 | 6.5 | 9.7 |
| 42 | 4.6 | 7.8 | 11.8# |
| 44 | 11.7 | 5.0 | 7.6# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
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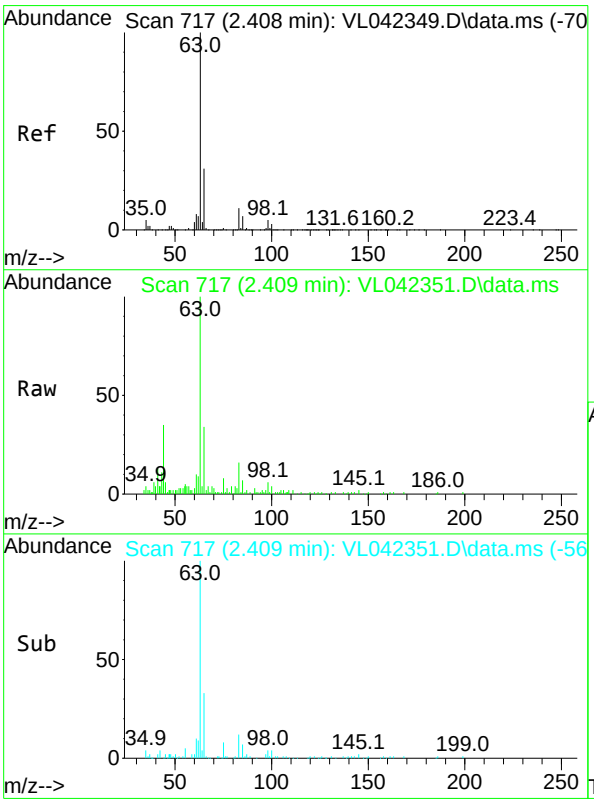
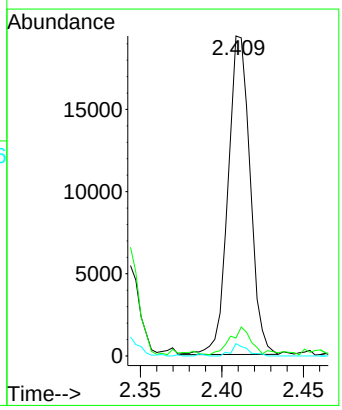
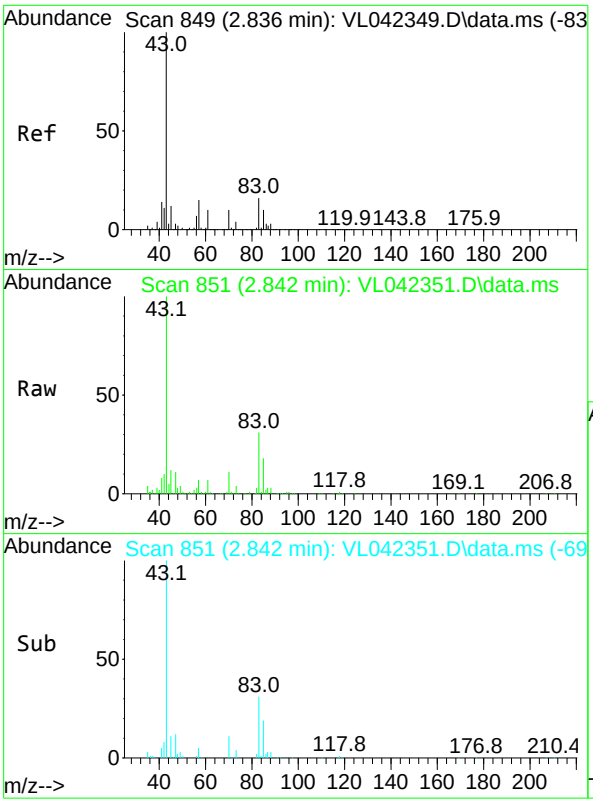



#24
1,1-Dichloroethane
Concen: 1.058 ppbv
RT: 2.409 min Scan# 717
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 63 Resp: 18236

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 4.7 | 2.3 | 6.8 |
| 100 | 3.9 | 1.6 | 4.8 |

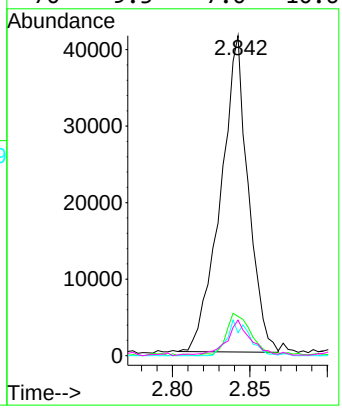





#25
Ethyl Acetate
Concen: 1.027 ppbv
RT: 2.842 min Scan# 8
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 43 Resp: 5149

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 13.1 | 8.3 | 12.5 |
| 61 | 9.0 | 7.3 | 10.9 |
| 70 | 9.3 | 7.0 | 10.6 |




**Instrument :**
MSVOA_L
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VSTDICC001

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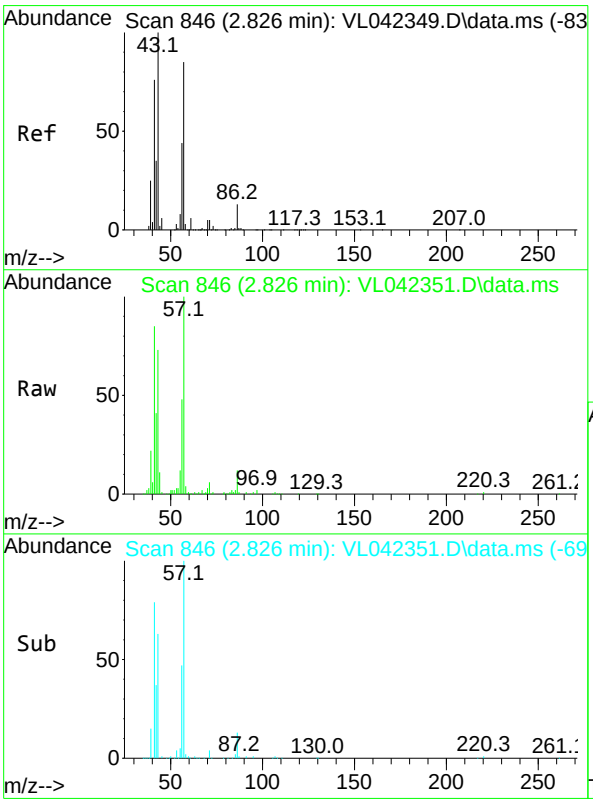
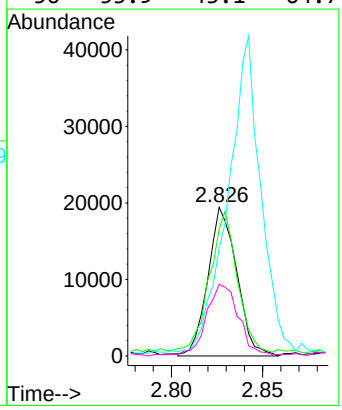
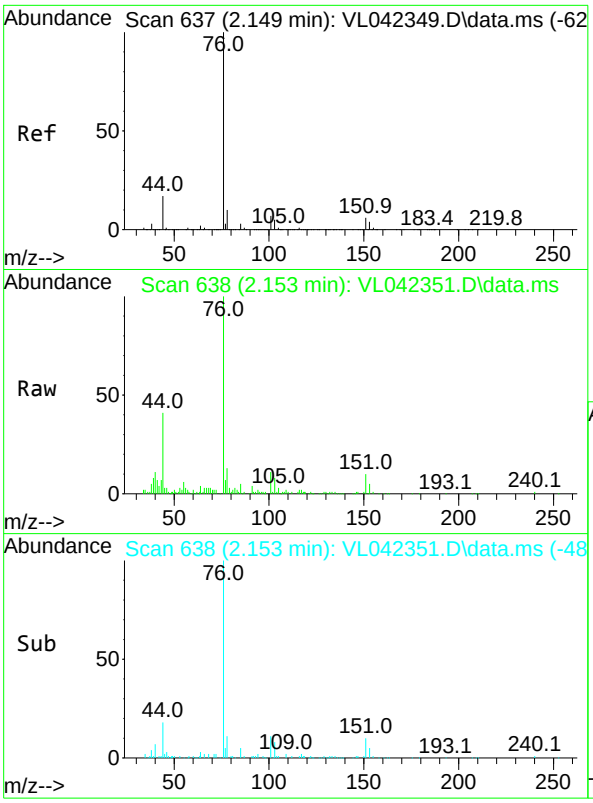



#26
Hexane
Concen: 1.053 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 57 Resp: 21350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 95.3 | 77.9 | 116.9 |
| 43 | 247.5 | 208.4 | 312.6 |
| 56 | 53.9 | 43.1 | 64.7 |






#27
Carbon Disulfide
Concen: 0.955 ppbv
RT: 2.153 min Scan# 6
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 76 Resp: 2073

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 93.1 | 15.5 | 23.3# |
| 78 | 19.8 | 9.3 | 13.9# |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

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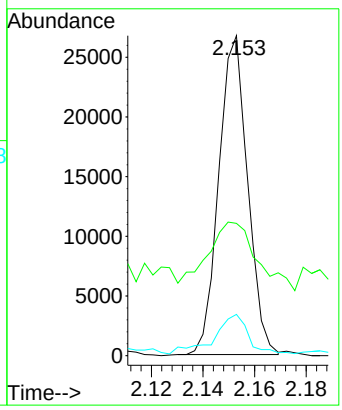
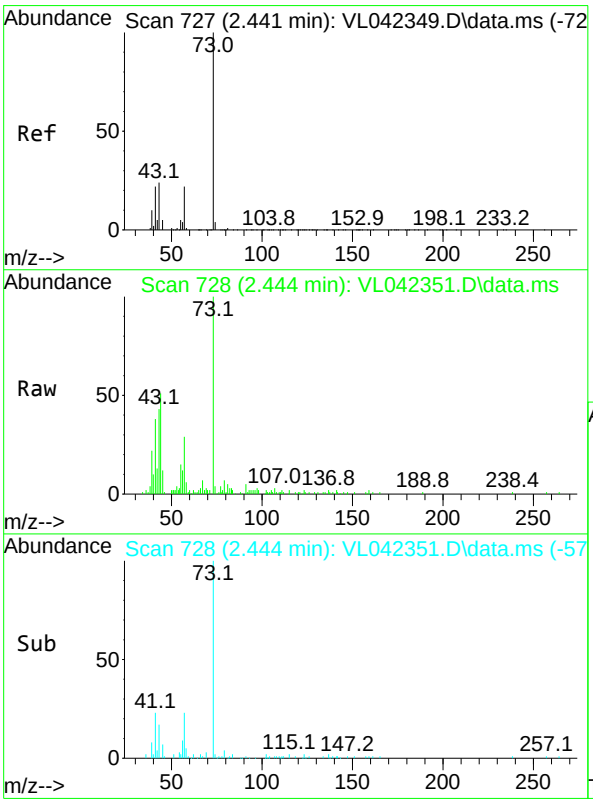
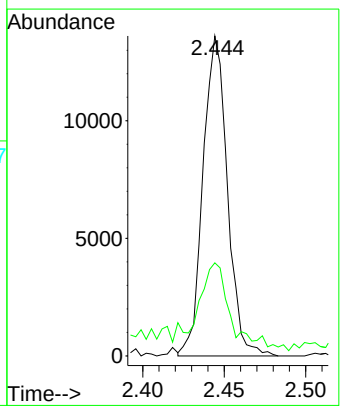


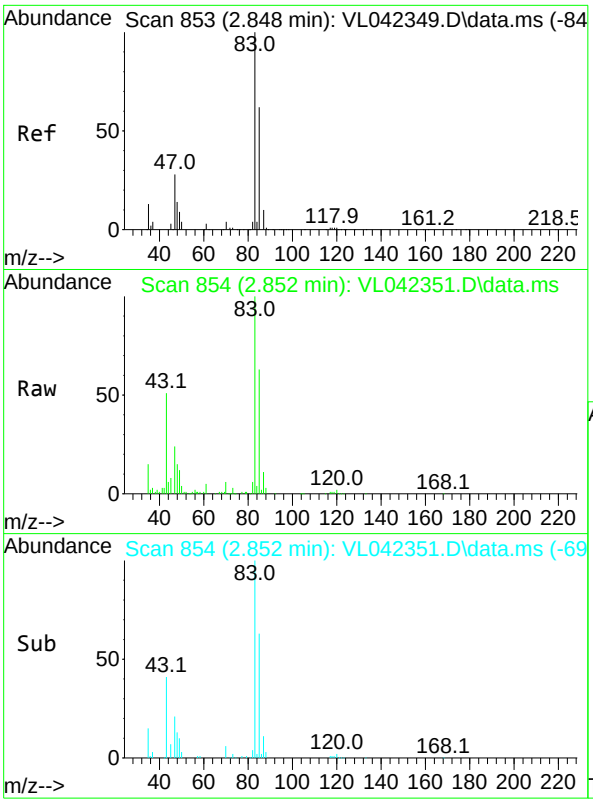




#28
Methyl tert-Butyl Ether
Concen: 1.066 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 73 Resp: 14164

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 34.2 | 21.3 | 31.9# |

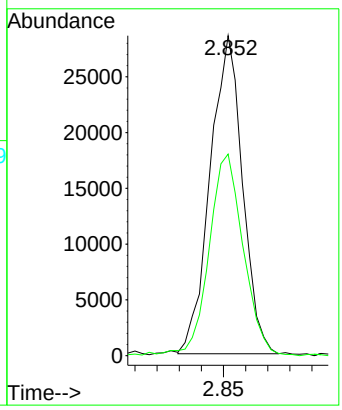





#29
Chloroform
Concen: 1.011 ppbv
RT: 2.852 min Scan# 8
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 83 Resp: 2897

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.6 | 50.0 | 75.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
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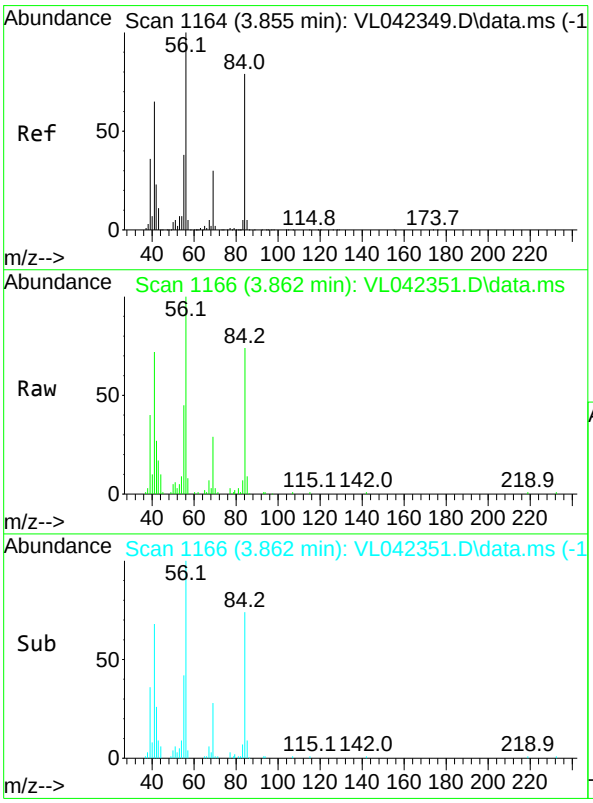
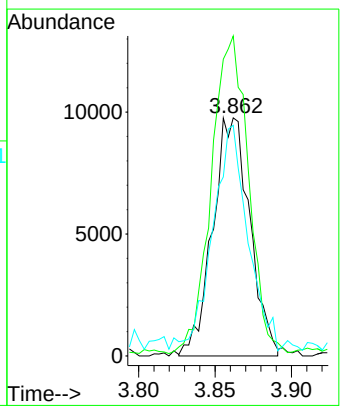
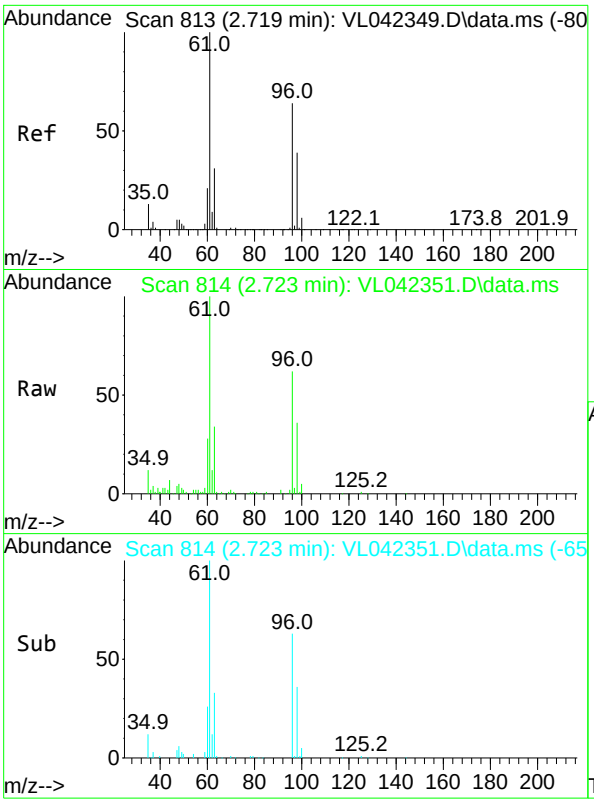



#30
Cyclohexane
Concen: 1.013 ppbv m
RT: 3.862 min Scan# 1166
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 84 Resp: 16547

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 134.2 | 101.0 | 151.4 |
| 41 | 85.1 | 67.4 | 101.0 |

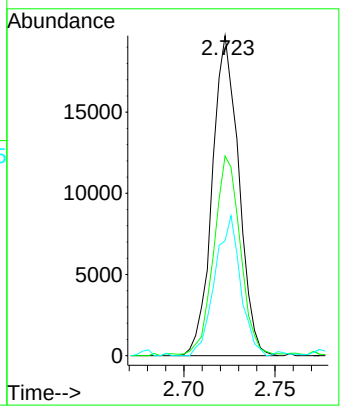





#31
cis-1,2-Dichloroethene
Concen: 1.032 ppbv
RT: 2.723 min Scan# 8
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 61 Resp: 1990

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 61.9 | 50.8 | 76.2 |
| 98 | 35.9 | 30.9 | 46.3 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

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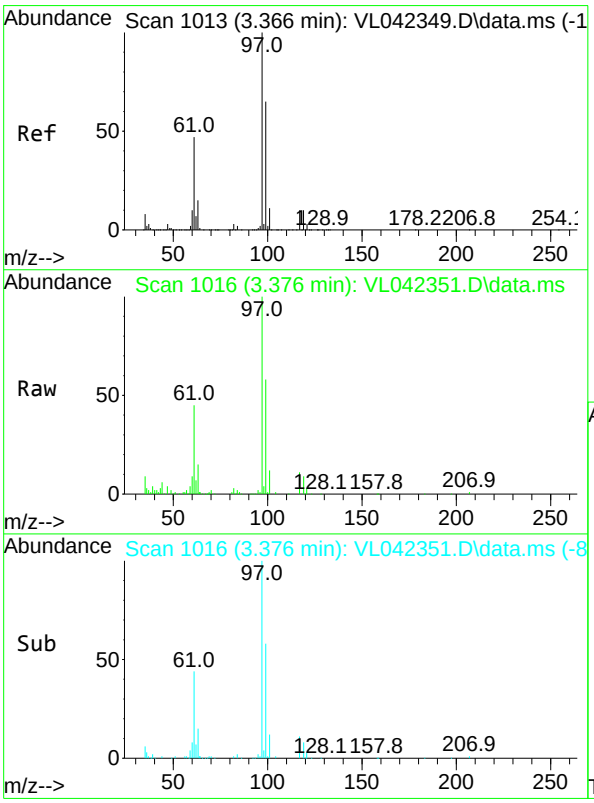
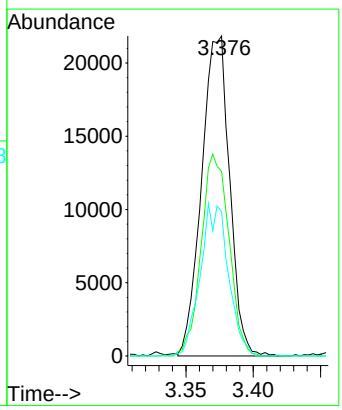
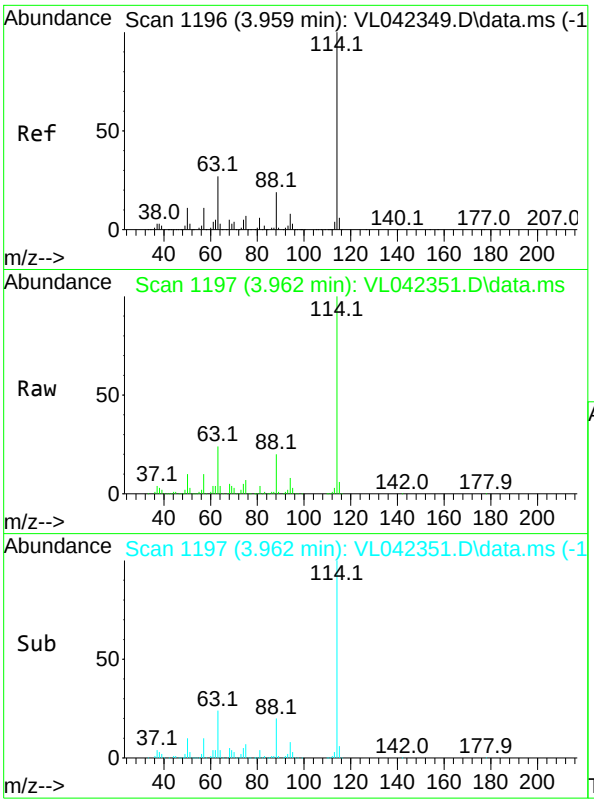



#32
1,1,1-Trichloroethane
Concen: 1.030 ppbv
RT: 3.376 min Scan# 1016
Delta R.T. 0.010 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 97 Resp: 31653

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 62.4 | 51.0 | 76.4 |
| 61 | 47.6 | 38.8 | 58.2 |

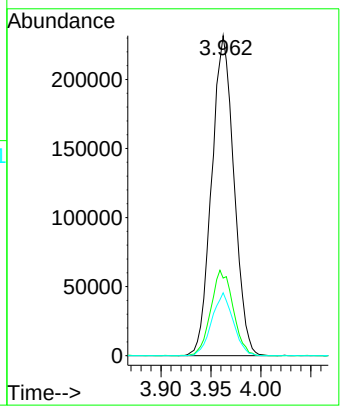





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:114 Resp: 35990

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 26.7 | 21.8 | 32.6 |
| 88 | 18.8 | 15.5 | 23.3 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
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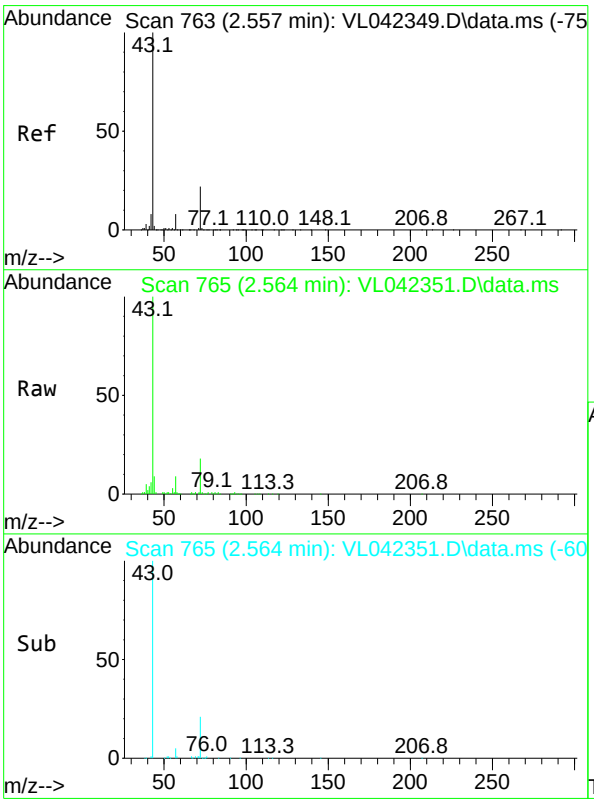
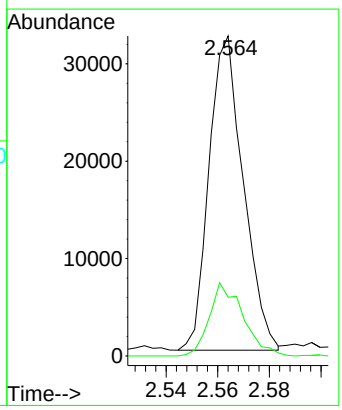
Supervised By :Mahesh Dadoda 04/18/2025

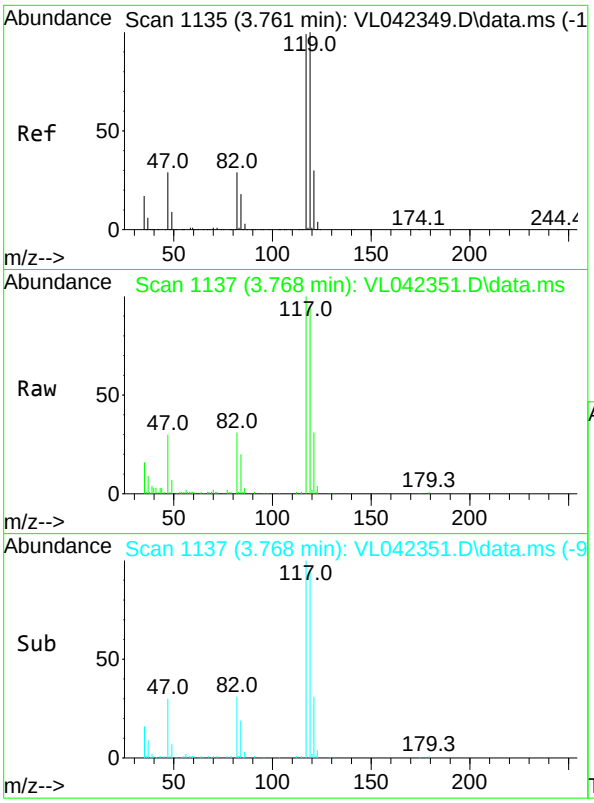



#34
2-Butanone
Concen: 1.045 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 43 Resp: 29735

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 23.1 | 18.2 | 27.2 |

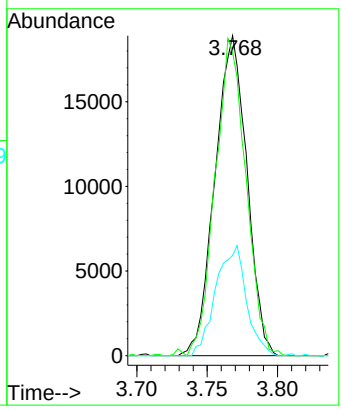





#35
Carbon Tetrachloride
Concen: 0.917 ppbv
RT: 3.768 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:117 Resp: 2987

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 93.3 | 80.5 | 120.7 |
| 121 | 31.3 | 24.2 | 36.2 |




**Instrument :**
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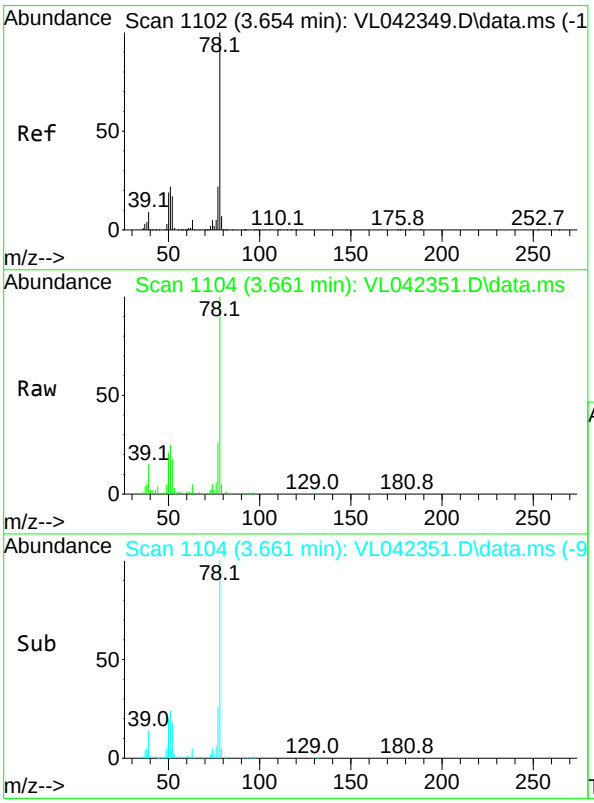
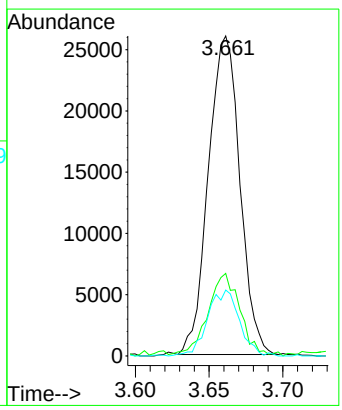
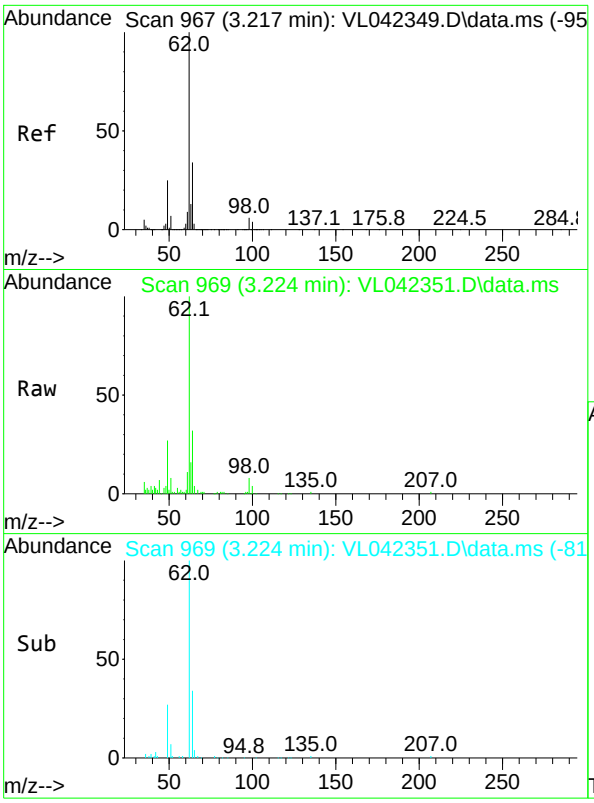



#36
Benzene
Concen: 0.997 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 78 Resp: 38707

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.7 | 17.4 | 26.0 |
| 50 | 20.7 | 15.5 | 23.3 |

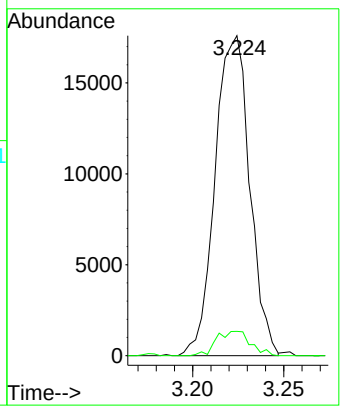





#37
1,2-Dichloroethane
Concen: 0.999 ppbv
RT: 3.224 min Scan# 9
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 62 Resp: 2328

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 7.5 | 5.1 | 7.7 |




**Instrument :**
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VSTDICC001

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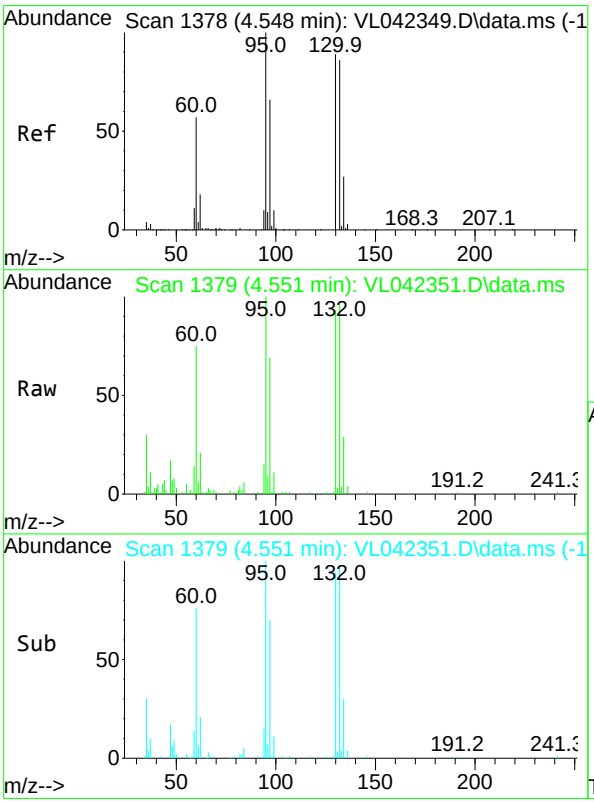
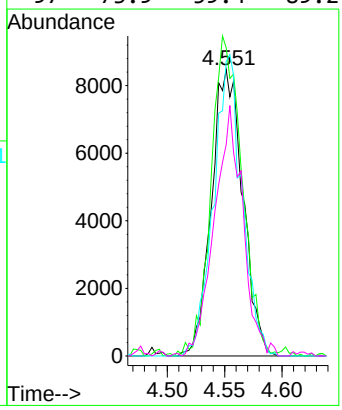
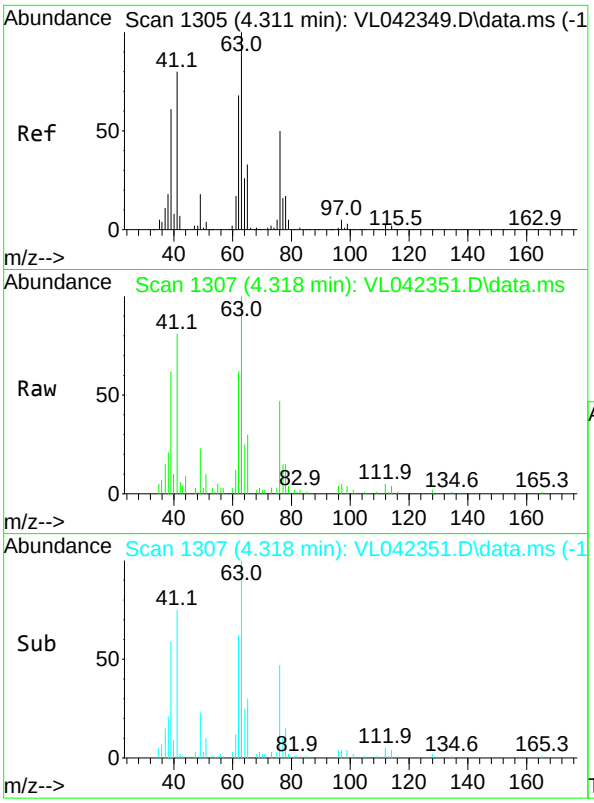



#38
Trichloroethene
Concen: 0.947 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:130 Resp: 16119

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 106.6 | 89.8 | 134.6 |
| 132 | 102.9 | 77.7 | 116.5 |
| 97 | 73.9 | 59.4 | 89.2 |

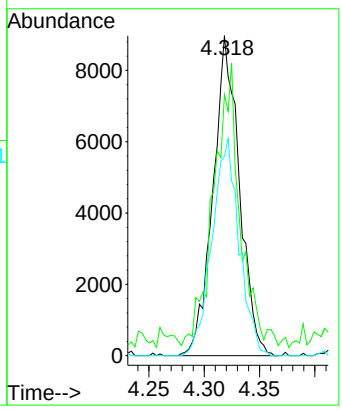





#39
1,2-Dichloropropane
Concen: 1.027 ppbv
RT: 4.318 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 63 Resp: 1486

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 78.3 | 64.2 | 96.2 |
| 62 | 62.3 | 54.3 | 81.5 |




**Instrument :**
MSVOA_L
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VSTDICC001

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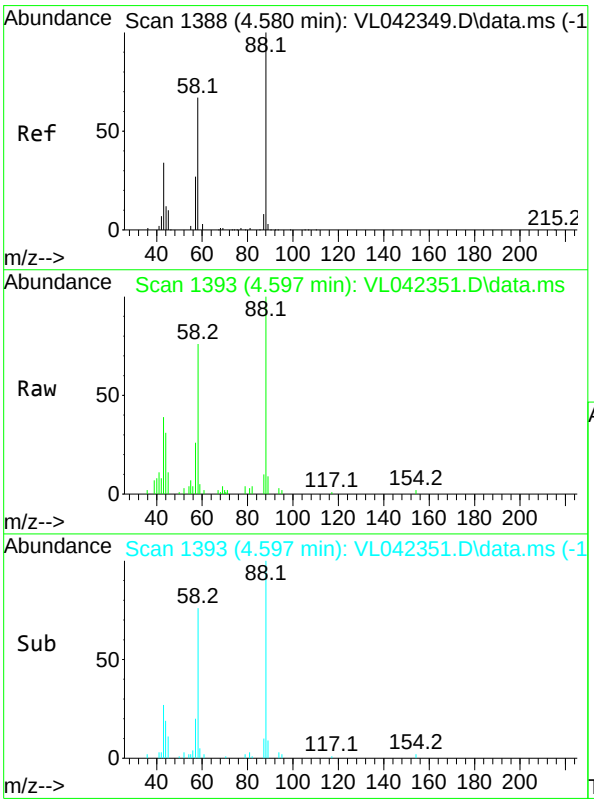
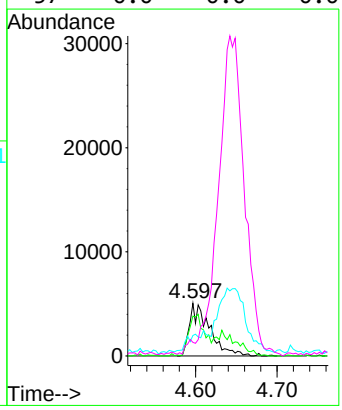
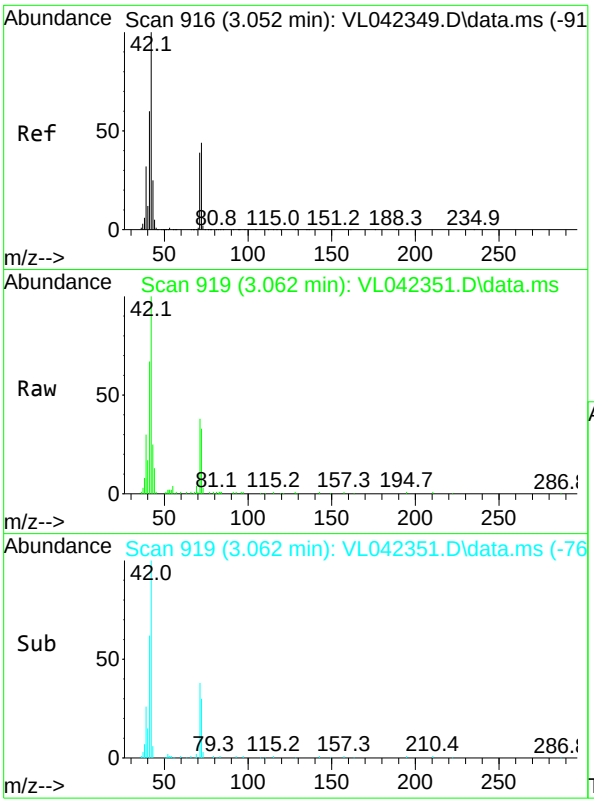



#40
1,4-Dioxane
Concen: 1.114 ppbv m
RT: 4.597 min Scan# 1393
Delta R.T. 0.017 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 88 Resp: 8737

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 110.6 | 61.4 | 92.0# |
| 43 | 0.0 | 23.2 | 34.8# |
| 57 | 0.0 | 0.0 | 0.0 |

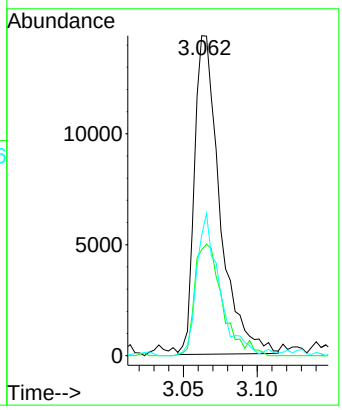





#41
Tetrahydrofuran
Concen: 1.049 ppbv
RT: 3.062 min Scan# 91
Delta R.T. 0.010 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 42 Resp: 1725

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 38.1 | 32.3 | 48.5 |
| 71 | 42.3 | 31.4 | 47.2 |




**Instrument :**
MSVOA_L
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VSTDICC001

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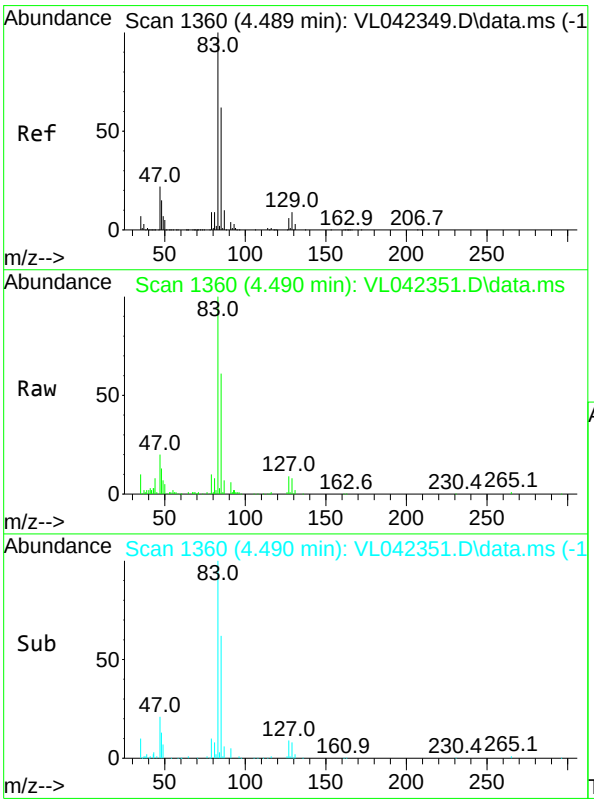
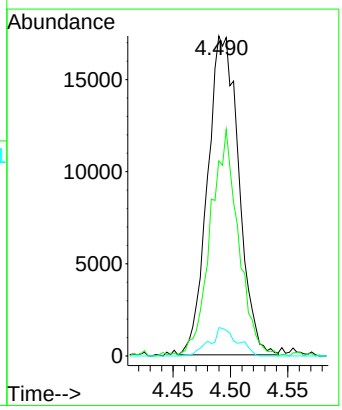
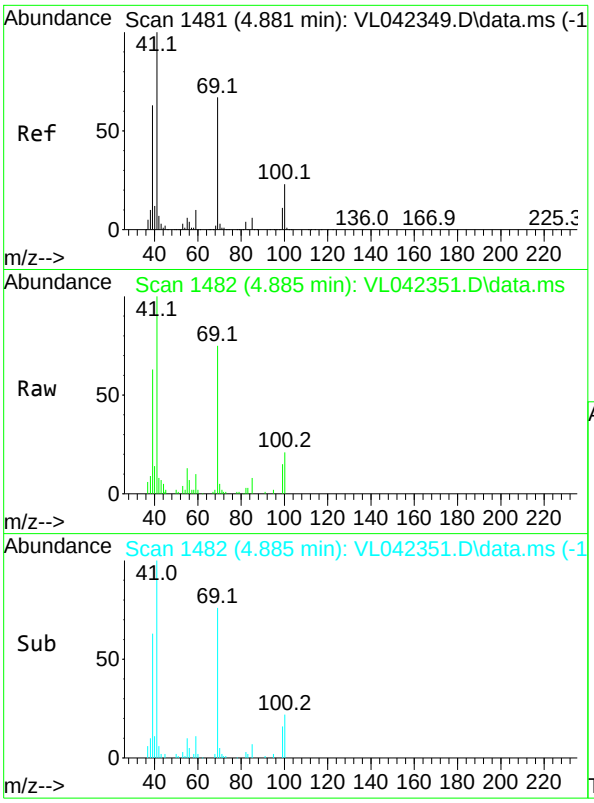



#42
Bromodichloromethane
Concen: 1.009 ppbv
RT: 4.490 min Scan# 1360
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 83 Resp: 32721

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 61.2 | 49.7 | 74.5 |
| 127 | 8.9 | 5.1 | 7.7# |

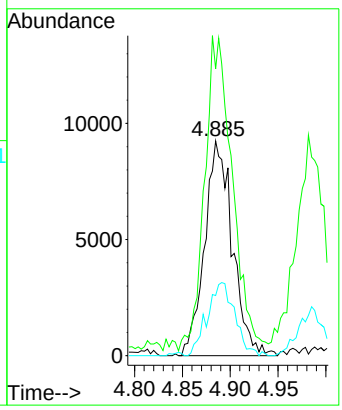





#43
Methyl Methacrylate
Concen: 1.073 ppbv m
RT: 4.885 min Scan# 14
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 69 Resp: 1869

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 149.3 | 118.6 | 177.8 |
| 100 | 0.0 | 28.2 | 42.2# |




**Instrument :**
MSVOA_L
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VSTDICC001

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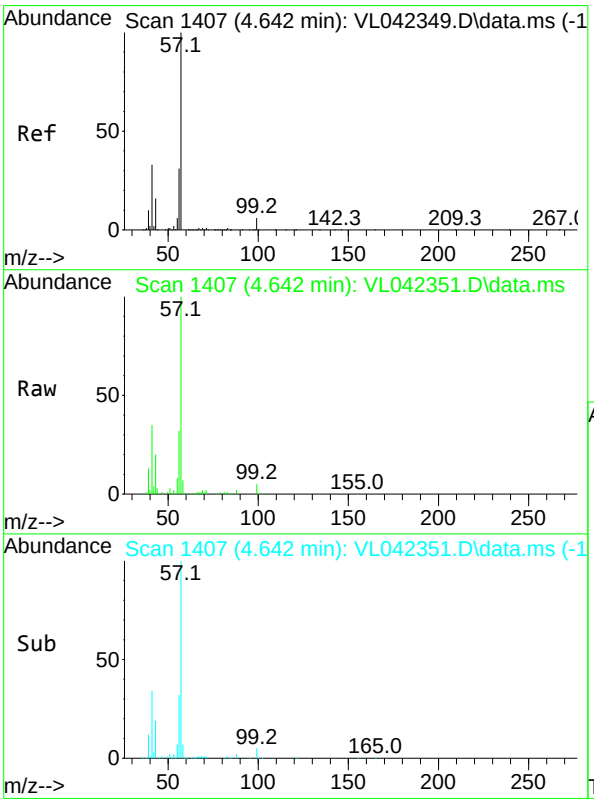
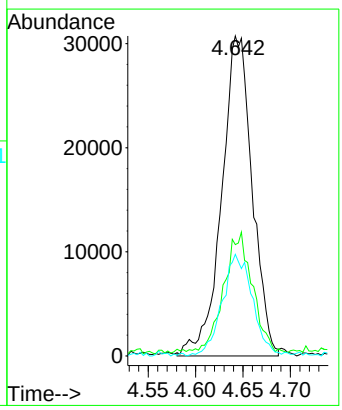
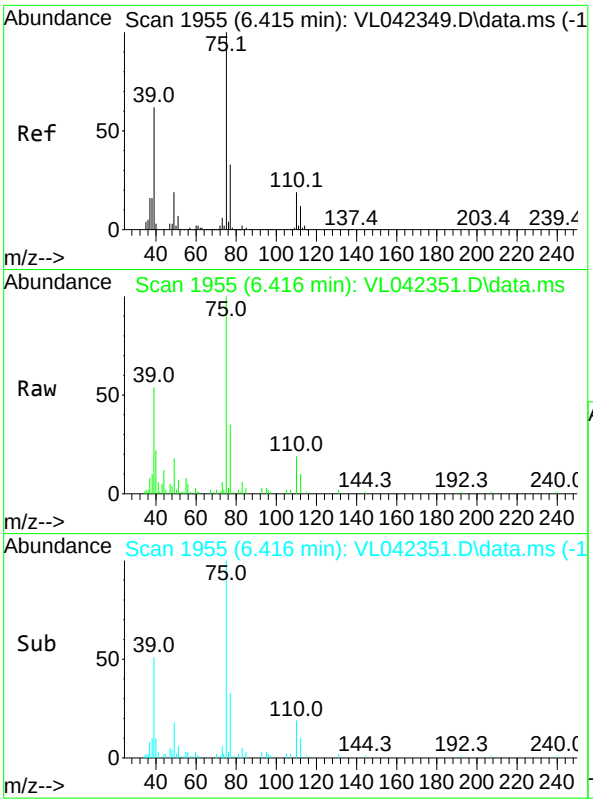



#44
2,2,4-Trimethylpentane
Concen: 1.027 ppbv m
RT: 4.642 min Scan# 1407
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 57 Resp: 68946

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 37.9 | 27.2 | 40.8 |
| 56 | 0.0 | 25.7 | 38.5# |

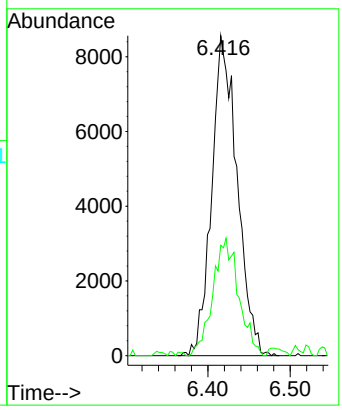





#45
t-1,3-Dichloropropene
Concen: 1.026 ppbv m
RT: 6.416 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 75 Resp: 1834

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 34.5 | 27.0 | 40.6 |




**Instrument :**
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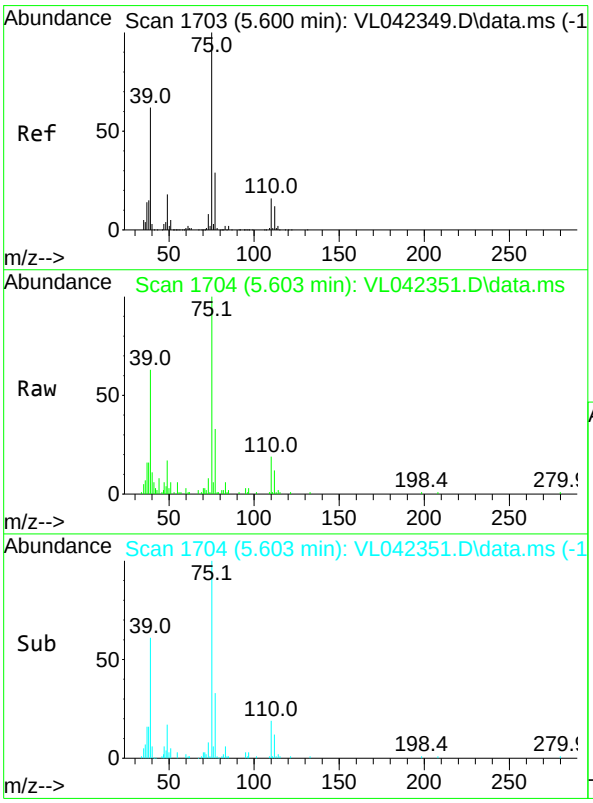
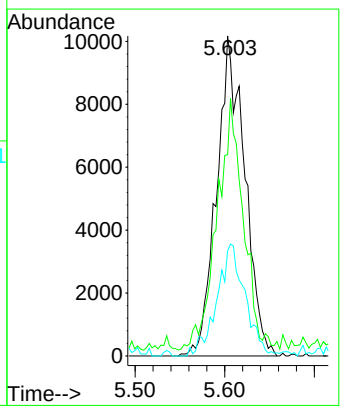
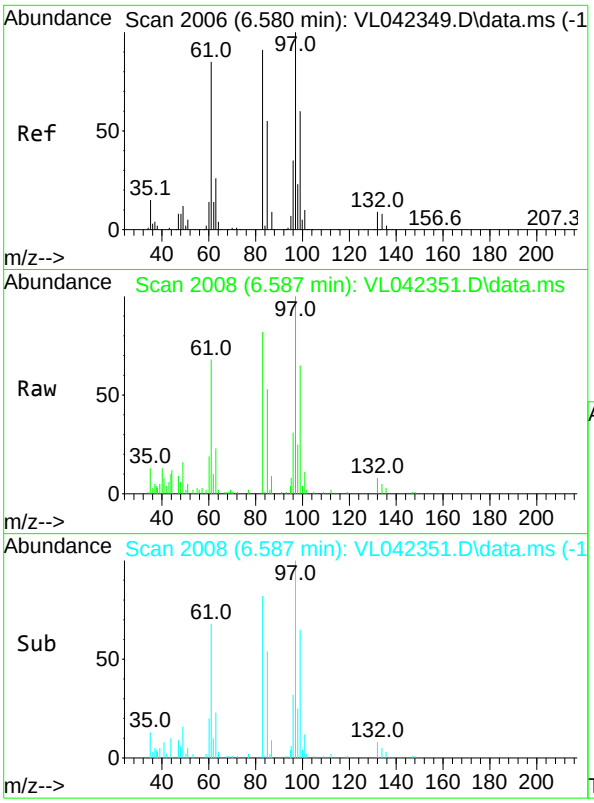



#46
cis-1,3-Dichloropropene
Concen: 1.015 ppbv m
RT: 5.603 min Scan# 1704
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 75 Resp: 22189

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 39 | 62.9 | 50.0 | 75.0 |
| 77 | 32.9 | 23.0 | 34.6 |

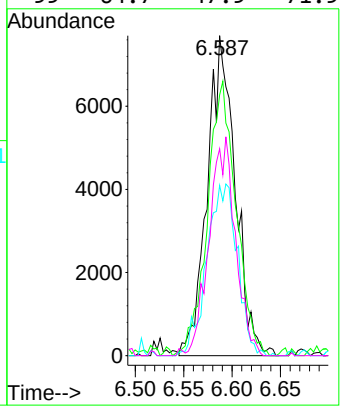





#47
1,1,2-Trichloroethane
Concen: 1.048 ppbv m
RT: 6.587 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 97 Resp: 1545

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 81.5 | 72.8 | 109.2 |
| 85 | 53.2 | 44.2 | 66.4 |
| 99 | 64.7 | 47.9 | 71.9 |

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VSTDICC001

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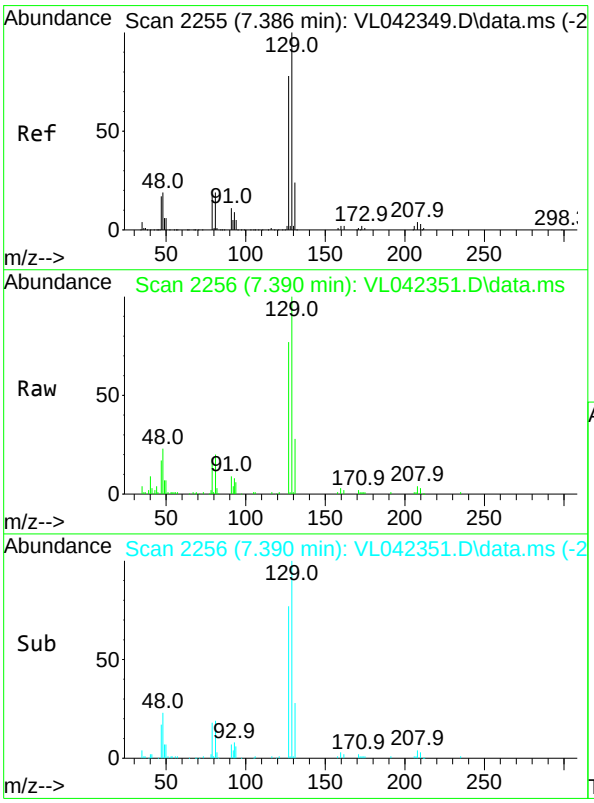
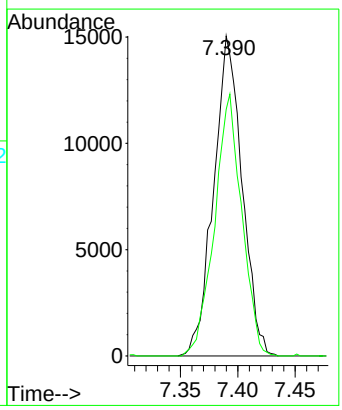
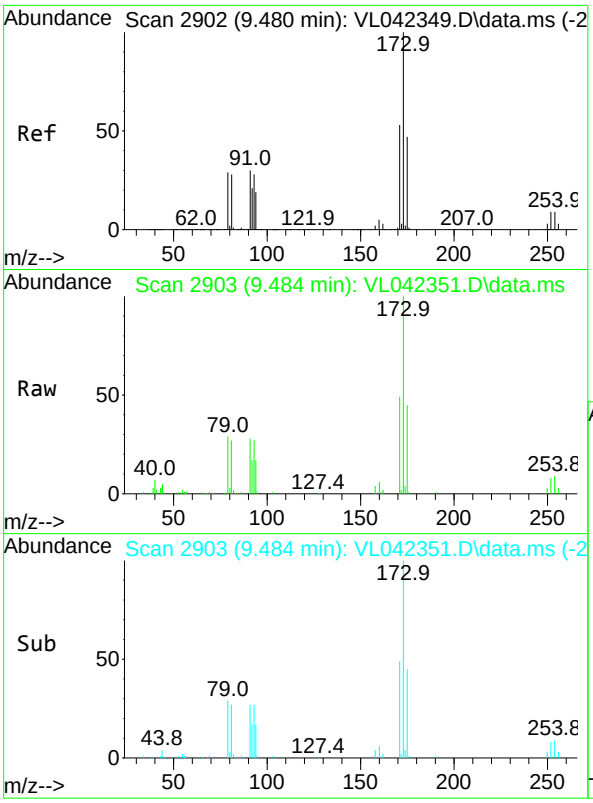



#48
Dibromochloromethane
Concen: 0.997 ppbv
RT: 7.390 min Scan# 2256
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:129 Resp: 25948

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.4 | 39.1 | 117.3 |

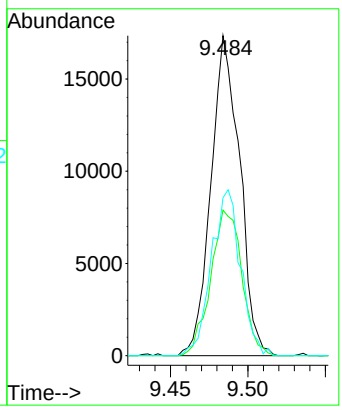





#49
Bromoform
Concen: 0.984 ppbv
RT: 9.484 min Scan# 2
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:173 Resp: 2241

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.3 | 38.2 | 57.2 |
| 171 | 52.7 | 40.9 | 61.3 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

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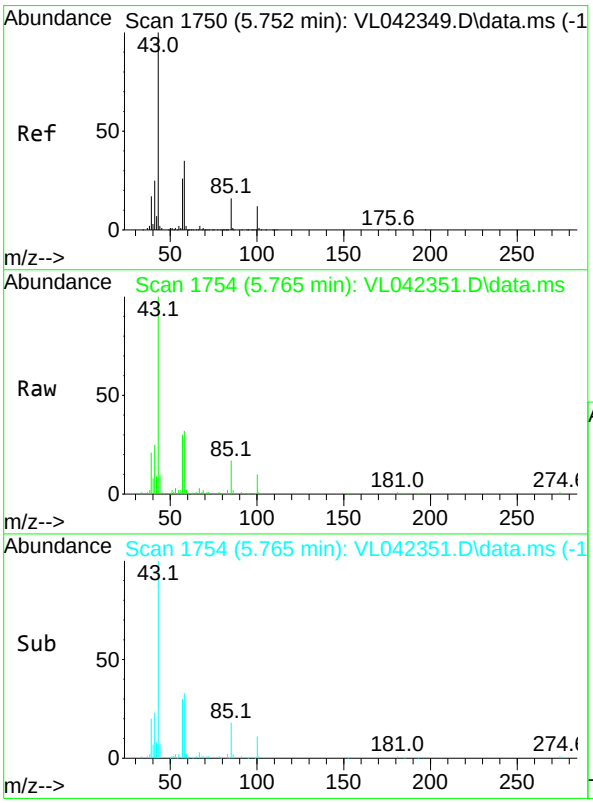
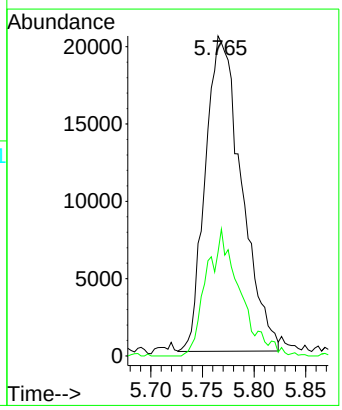
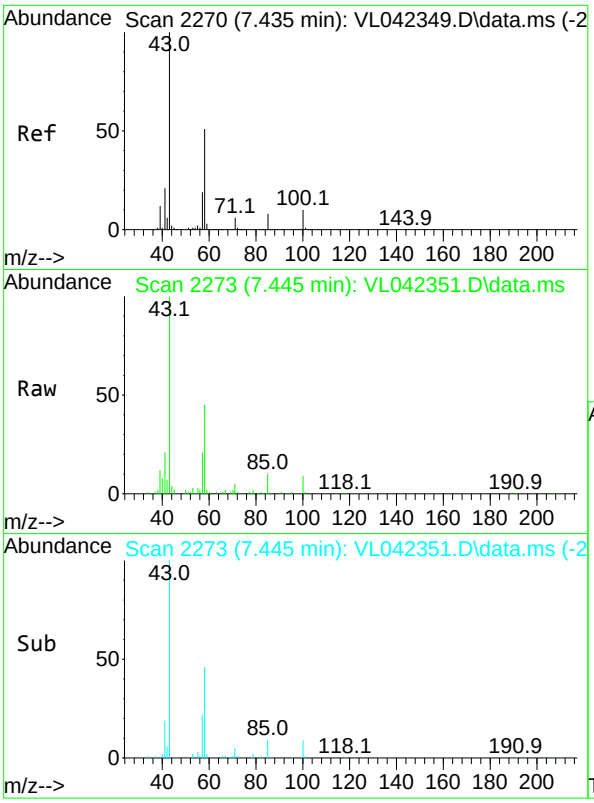



#50
4-Methyl-2-Pentanone
Concen: 1.049 ppbv
RT: 5.765 min Scan# 1754
Delta R.T. 0.013 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 43 Resp: 49725

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 37.7 | 28.6 | 43.0 |

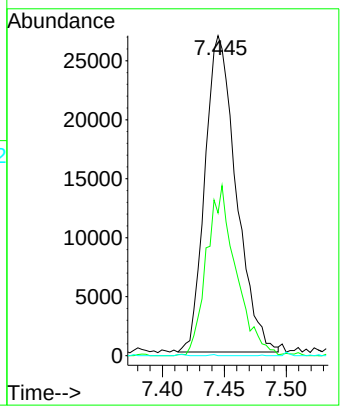





#51
2-Hexanone
Concen: 1.103 ppbv
RT: 7.445 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 43 Resp: 4717

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 50.8 | 40.2 | 60.4 |
| 98 | 0.1 | 0.1 | 0.1 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
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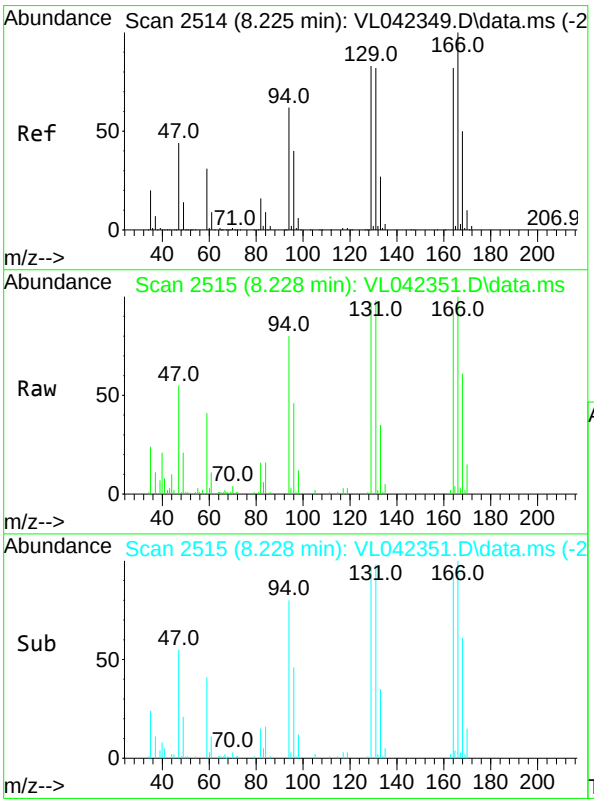
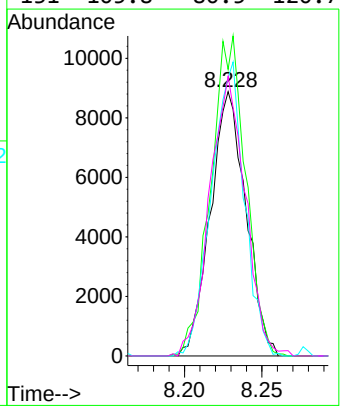
Supervised By :Mahesh Dadoda 04/18/2025

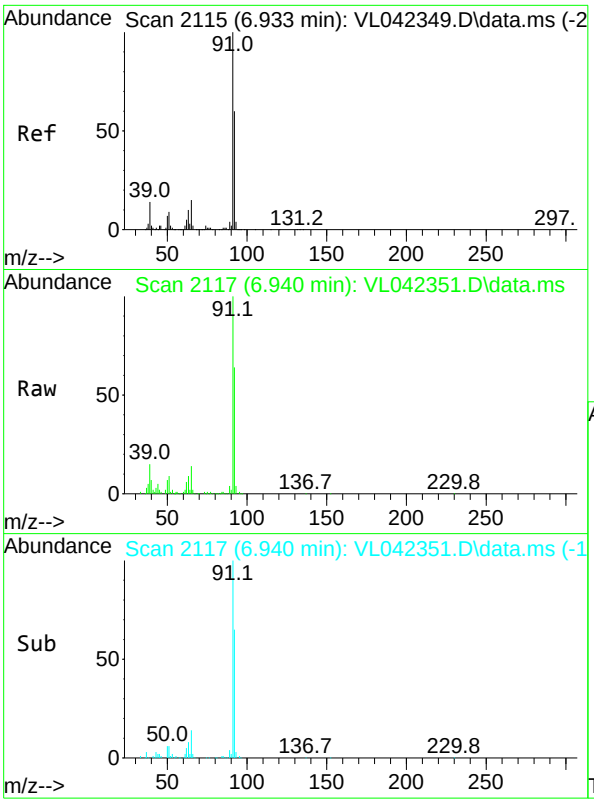



#52
Tetrachloroethene
Concen: 0.943 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:164 Resp: 14154

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 107.7 | 98.2 | 147.2 |
| 129 | 104.2 | 81.8 | 122.8 |
| 131 | 105.8 | 80.5 | 120.7 |

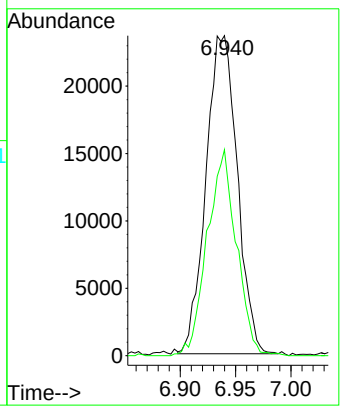





#53
Toluene
Concen: 1.001 ppbv
RT: 6.940 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 91 Resp: 4661

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 60.4 | 48.2 | 72.4 |




**Instrument :**
MSVOA_L
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VSTDICC001

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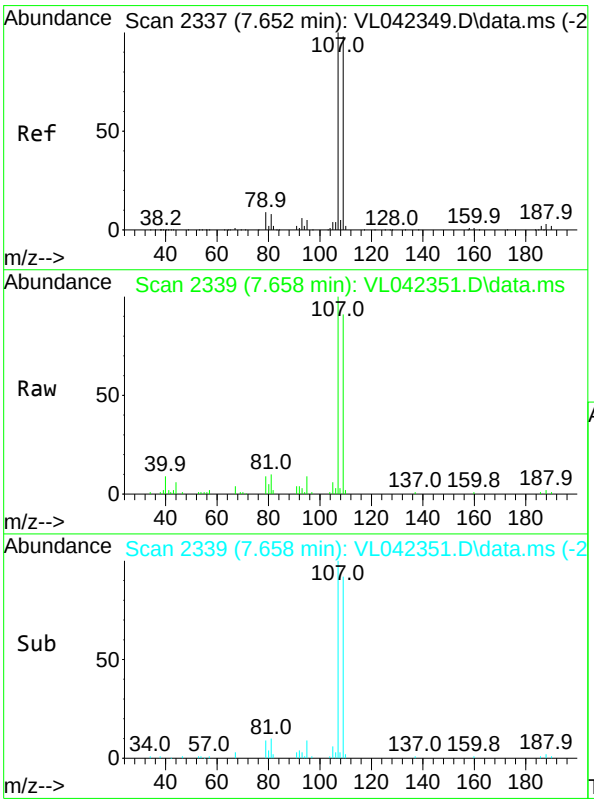
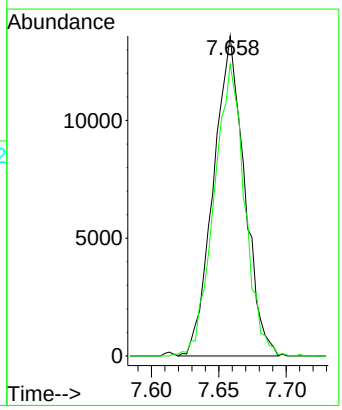
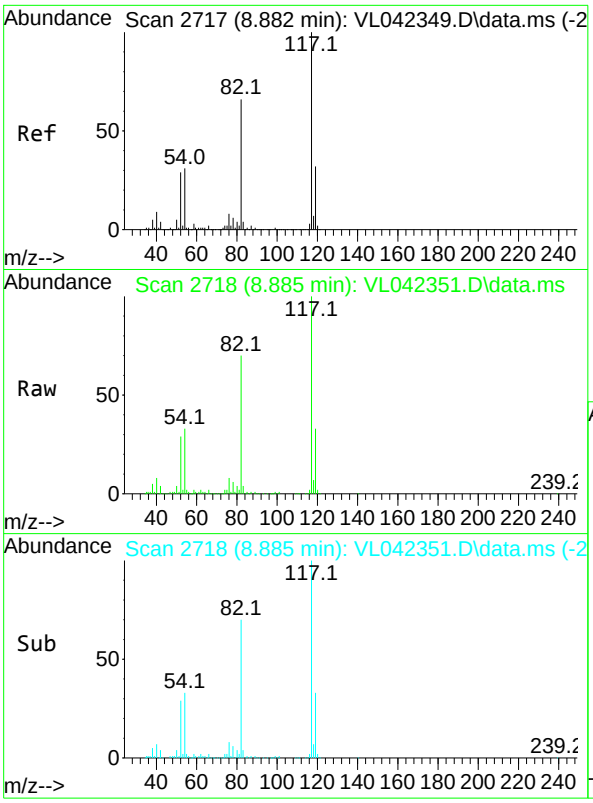



#54
1,2-Dibromoethane
Concen: 1.036 ppbv
RT: 7.658 min Scan# 2339
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:107 Resp: 21780

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 90.7 | 78.2 | 117.4 |

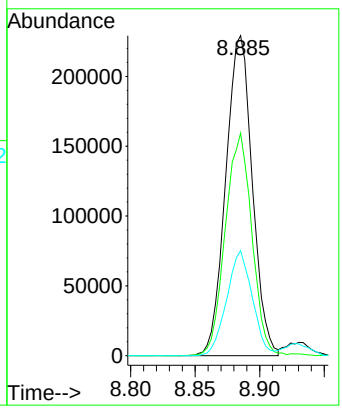





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:117 Resp: 32909

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 69.7 | 57.8 | 86.6 |
| 119 | 31.8 | 25.2 | 37.8 |




**Instrument :**
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VSTDICC001

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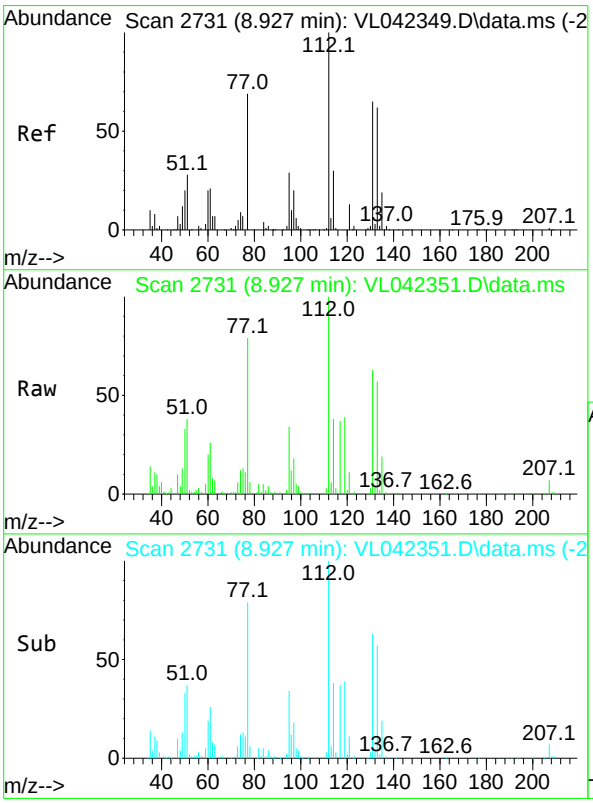
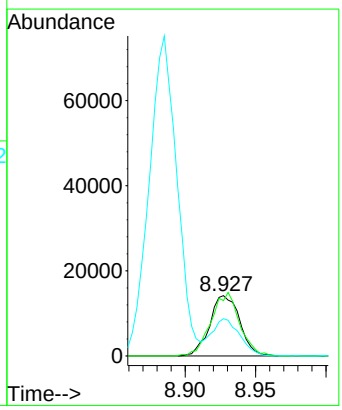
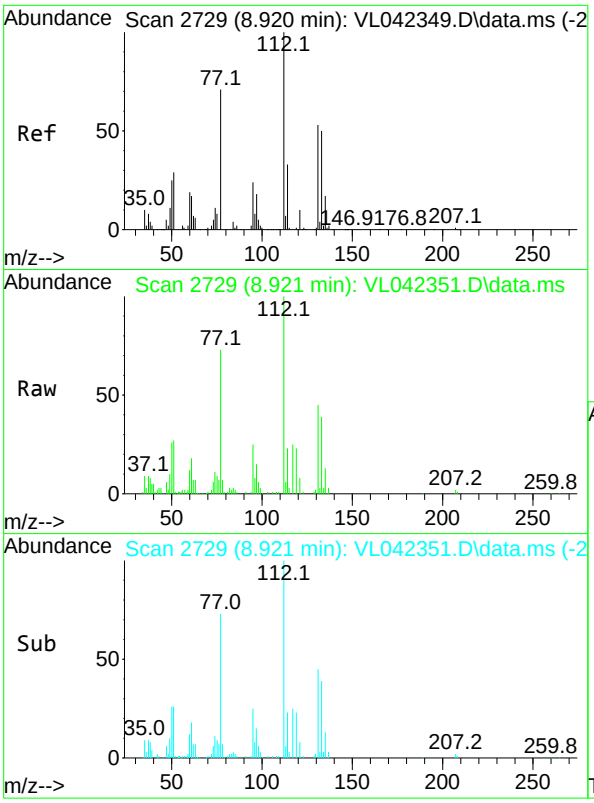



#56
1,1,1,2-Tetrachloroethane
Concen: 1.057 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:131 Resp: 21052

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 100.5 | 78.3 | 117.5 |
| 119 | 55.1 | 48.7 | 73.1 |






#57
Chlorobenzene
Concen: 1.026 ppbv
RT: 8.921 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:112 Resp: 3511

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 72.4 | 57.8 | 86.6 |
| 114 | 23.3 | 29.3 | 35.9# |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

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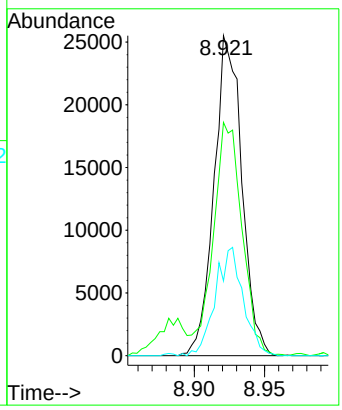
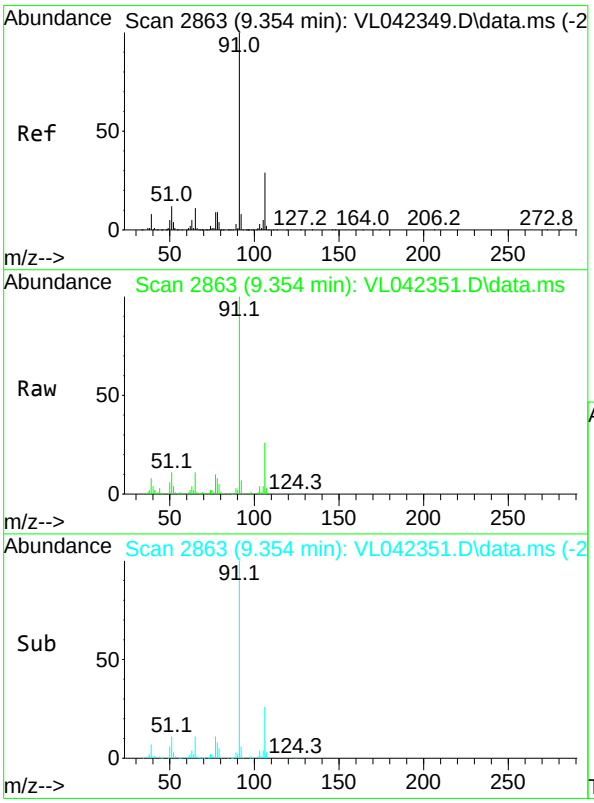
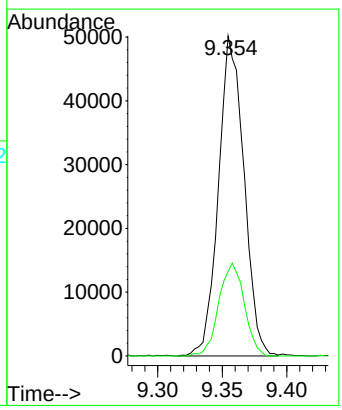


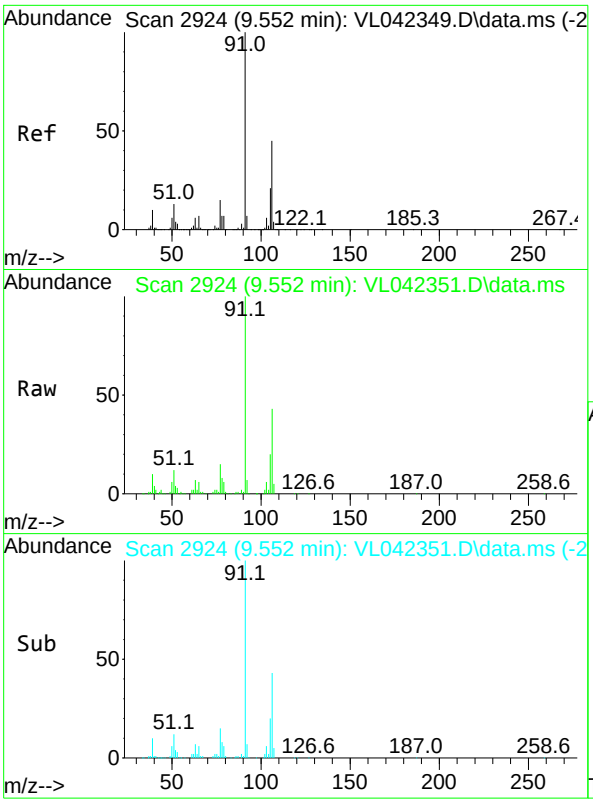




#58
Ethyl Benzene
Concen: 1.054 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 91 Resp: 68703

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 26.5 | 23.0 | 34.4 |

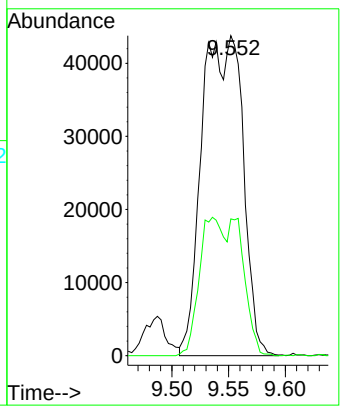





#59
m/p-Xylene
Concen: 2.101 ppbv m
RT: 9.552 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 91 Resp: 11070

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 0.0 | 35.4 | 53.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

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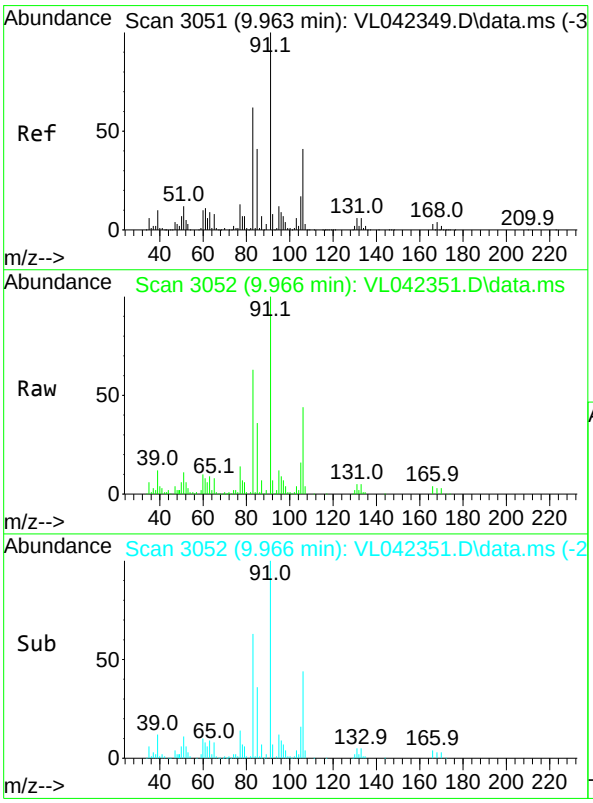
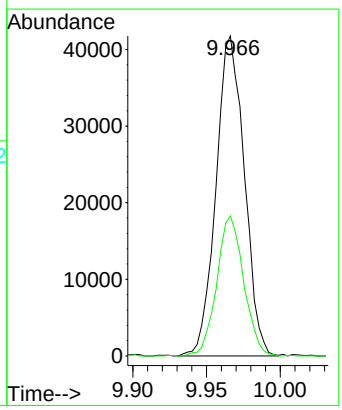
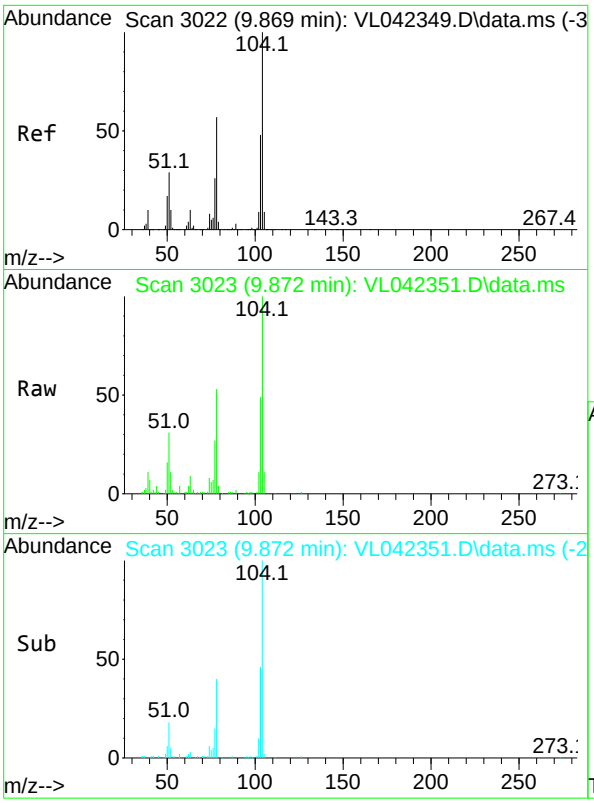



#60
o-Xylene
Concen: 1.056 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 91 Resp: 55831

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 41.6 | 21.1 | 63.4 |

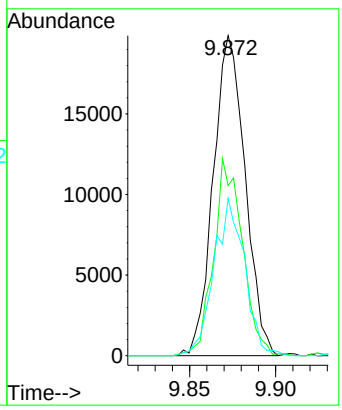





#61
Styrene
Concen: 1.012 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:104 Resp: 2554

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 55.7 | 44.6 | 66.8 |
| 103 | 47.2 | 37.4 | 56.0 |




**Instrument :**
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VSTDICC001

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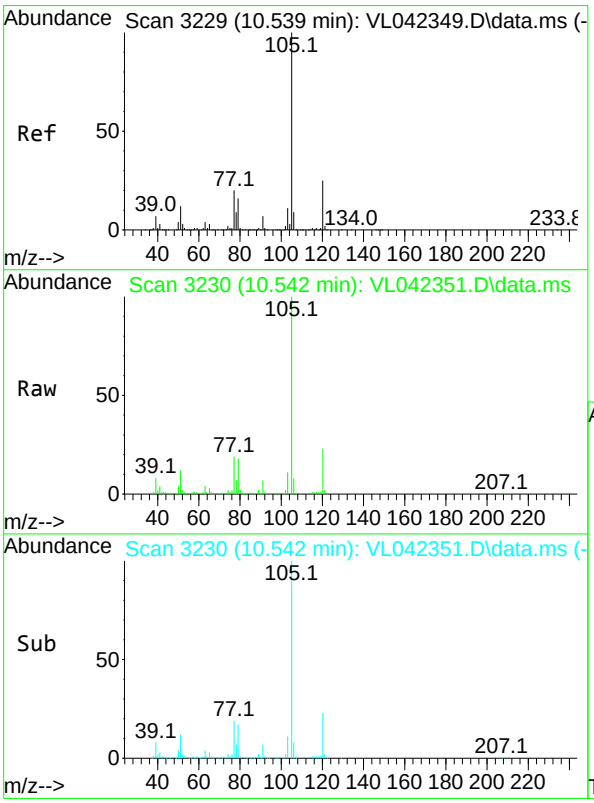
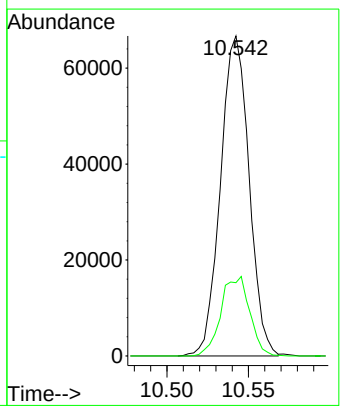
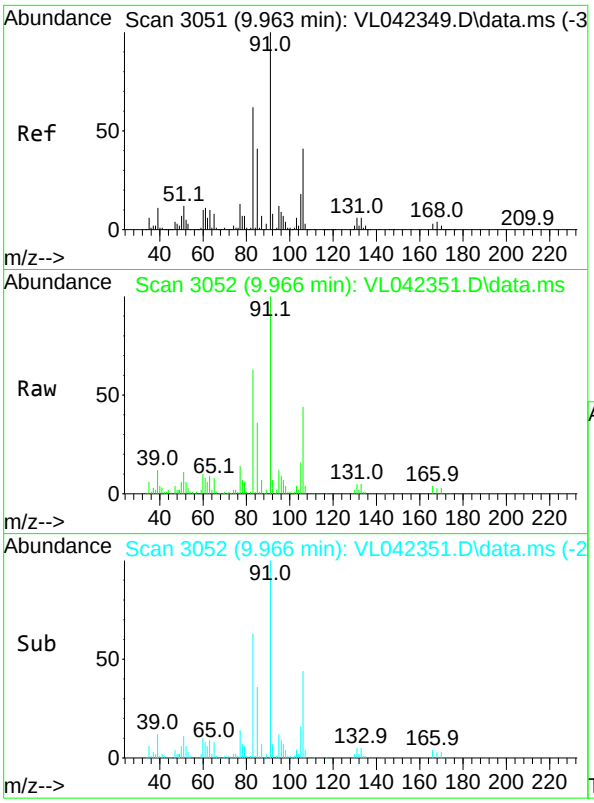



#62
Isopropylbenzene
Concen: 1.047 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:105 Resp: 81286

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.0 | 19.8 | 29.8 |

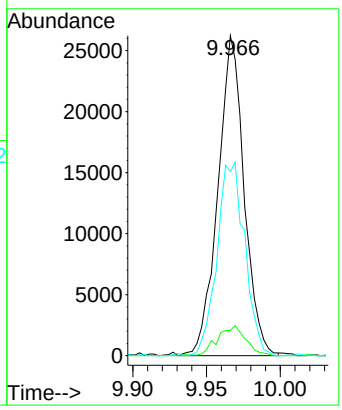





#63
1,1,2,2-Tetrachloroethane
Concen: 0.943 ppbv
RT: 9.966 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 83 Resp: 3241

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.2 | 4.5 | 13.7 |
| 85 | 64.4 | 32.4 | 97.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

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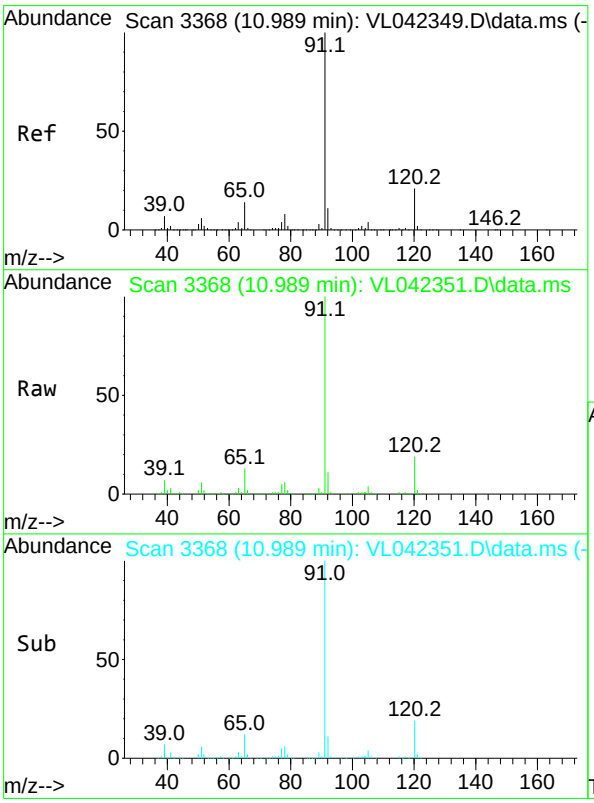
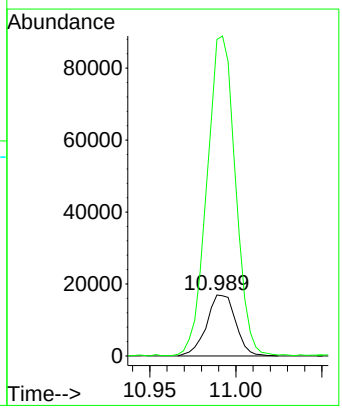
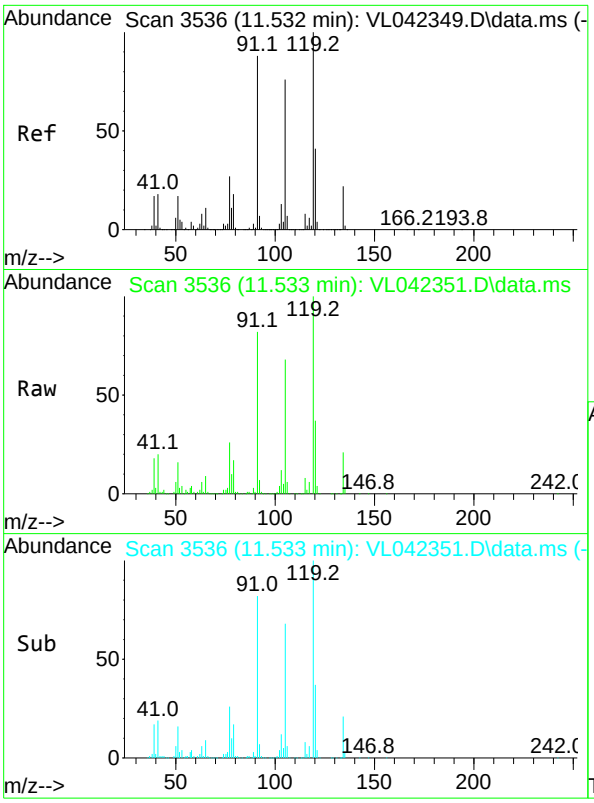



#64
n-propylbenzene
Concen: 1.019 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:120 Resp: 19898

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 517.6 | 392.4 | 588.6 |

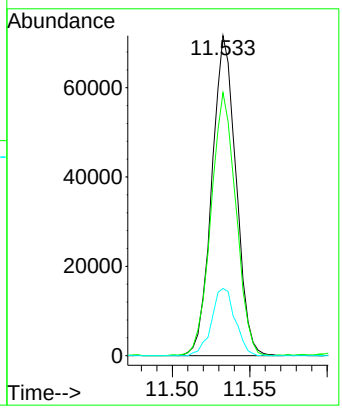





#65
tert-Butylbenzene
Concen: 1.087 ppbv
RT: 11.533 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:119 Resp: 7759

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 85.0 | 74.6 | 111.8 |
| 134 | 20.5 | 18.8 | 28.2 |

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VSTDICC001

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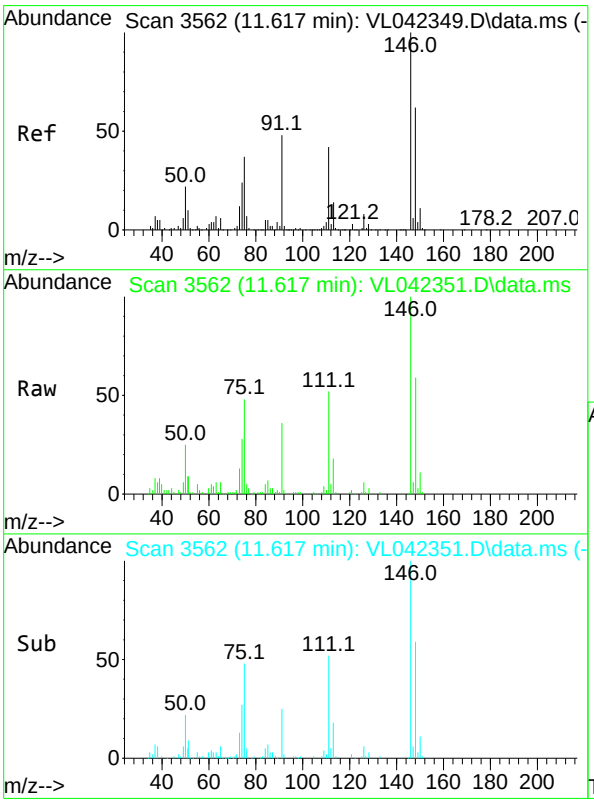
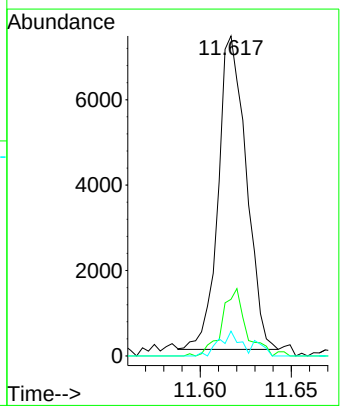
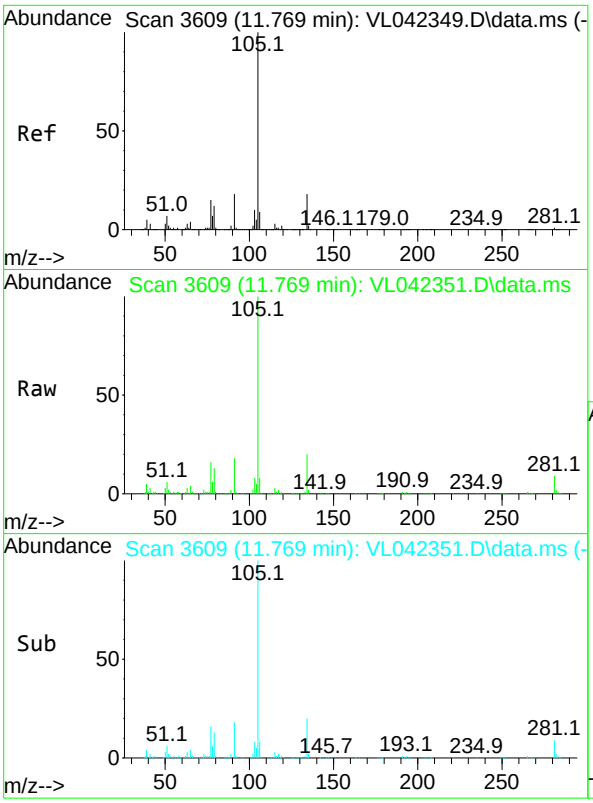



#66
Benzyl Chloride
Concen: 1.003 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 91 Resp: 7864

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 18.6 | 11.8 | 17.6# |
| 128 | 7.7 | 4.5 | 6.7# |

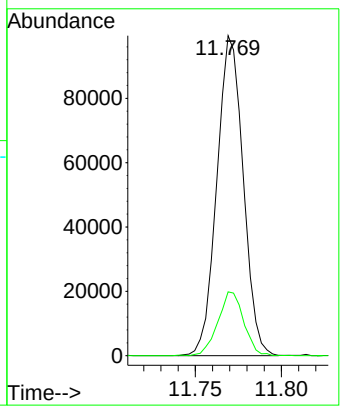





#67
sec-Butylbenzene
Concen: 1.067 ppbv
RT: 11.769 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:105 Resp: 10591

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.6 | 14.6 | 21.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

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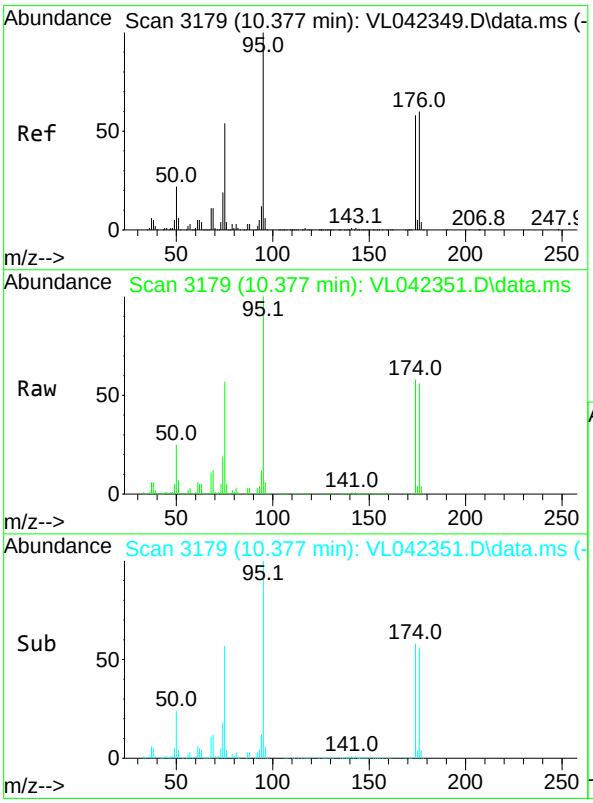
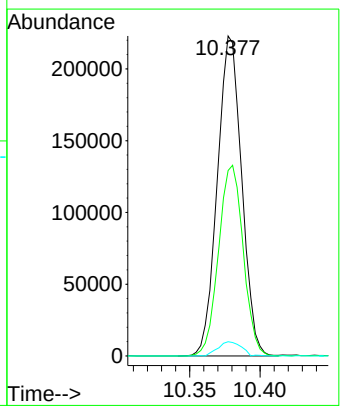
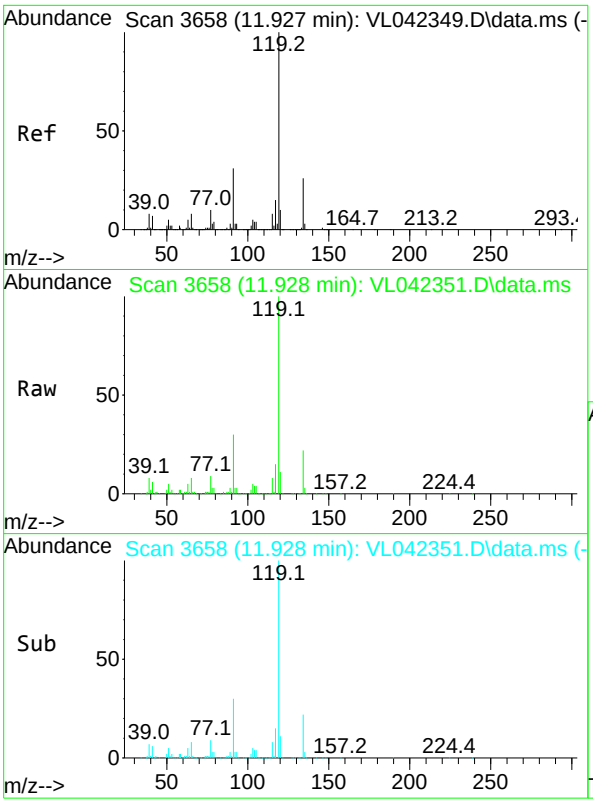



#68
1-Bromo-4-Fluorobenzene
Concen: 9.950 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 95 Resp: 269087

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 60.4 | 48.5 | 72.7 |
| 175 | 4.3 | 3.7 | 5.5 |

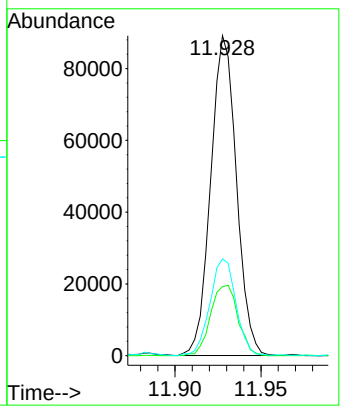





#69
p-Isopropyltoluene
Concen: 1.075 ppbv
RT: 11.928 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:119 Resp: 9273

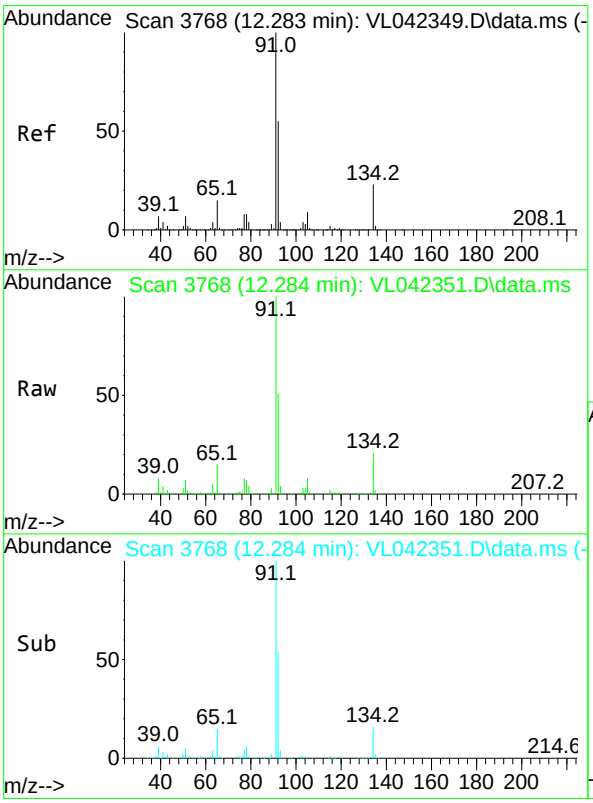
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 23.5 | 20.0 | 30.0 |
| 91 | 32.1 | 24.4 | 36.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

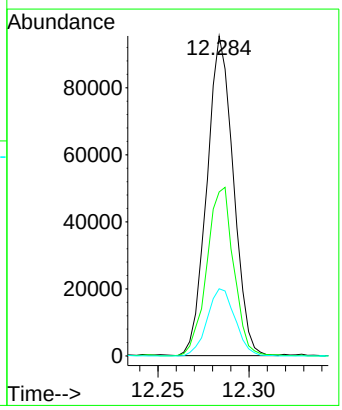
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

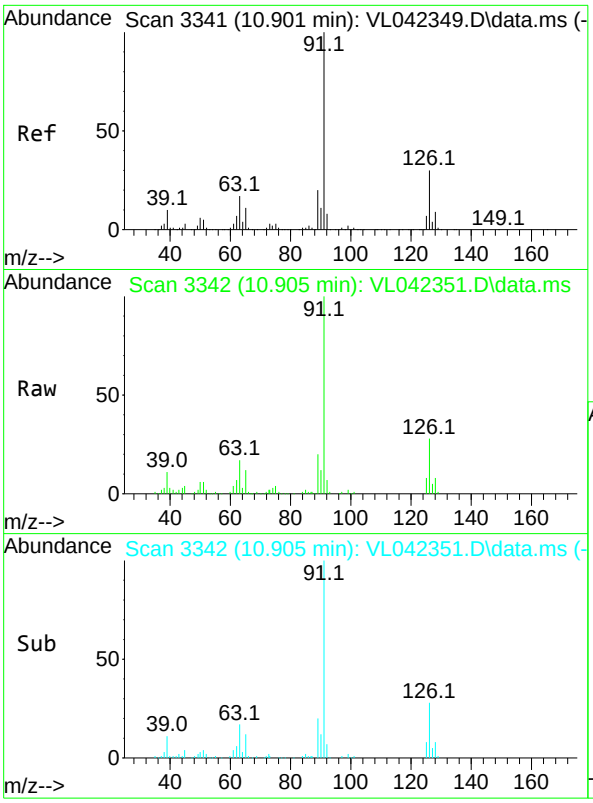



#70
n-Butylbenzene
Concen: 1.072 ppbv
RT: 12.284 min Scan# 3768
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 91 Resp: 96306

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 54.2 | 44.2 | 66.4 |
| 134 | 22.1 | 18.2 | 27.4 |

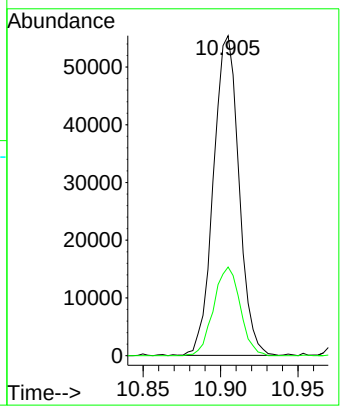





#71
2-Chlorotoluene
Concen: 1.040 ppbv
RT: 10.905 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 91 Resp: 6332

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 28.9 | 11.4 | 45.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/18/2025
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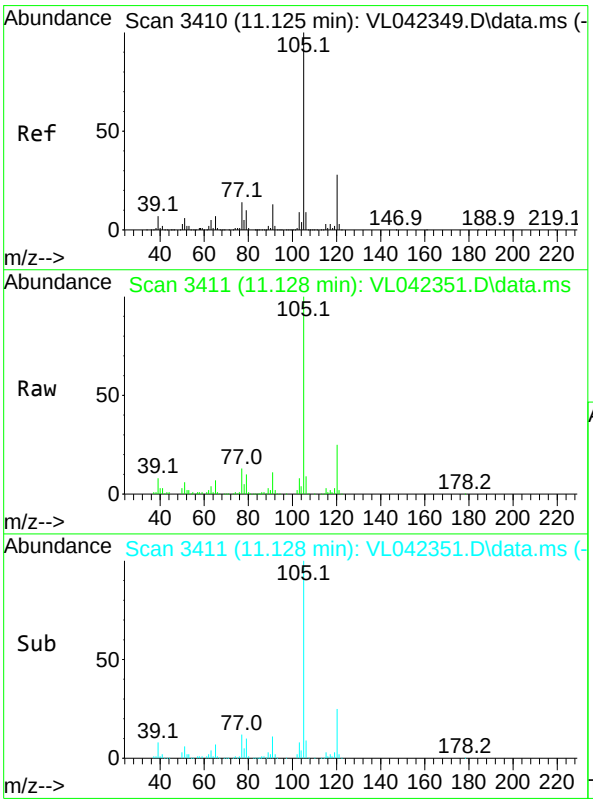
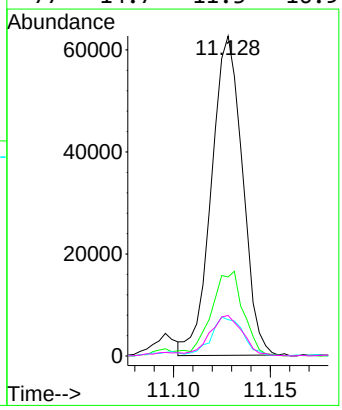
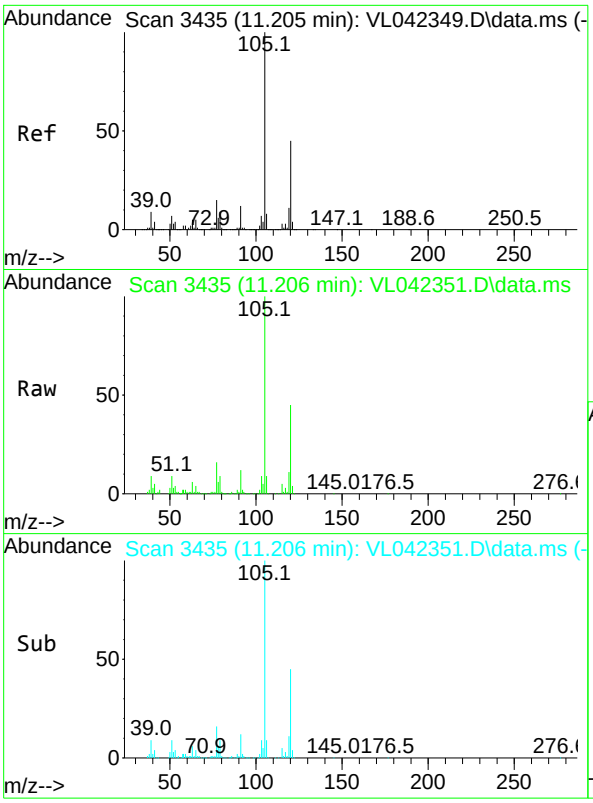



#72
4-Ethyltoluene
Concen: 1.078 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:105 Resp: 69698

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 29.2 | 23.2 | 34.8 |
| 91 | 13.5 | 10.4 | 15.6 |
| 77 | 14.7 | 11.3 | 16.9 |

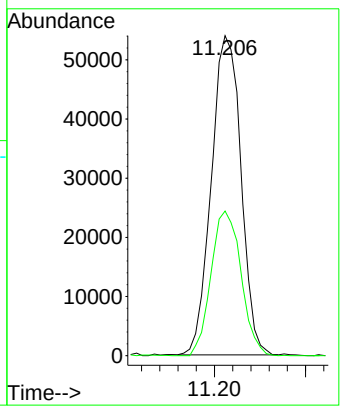





#73
1,3,5-Trimethylbenzene
Concen: 1.067 ppbv
RT: 11.206 min Scan# 34
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:105 Resp: 6092

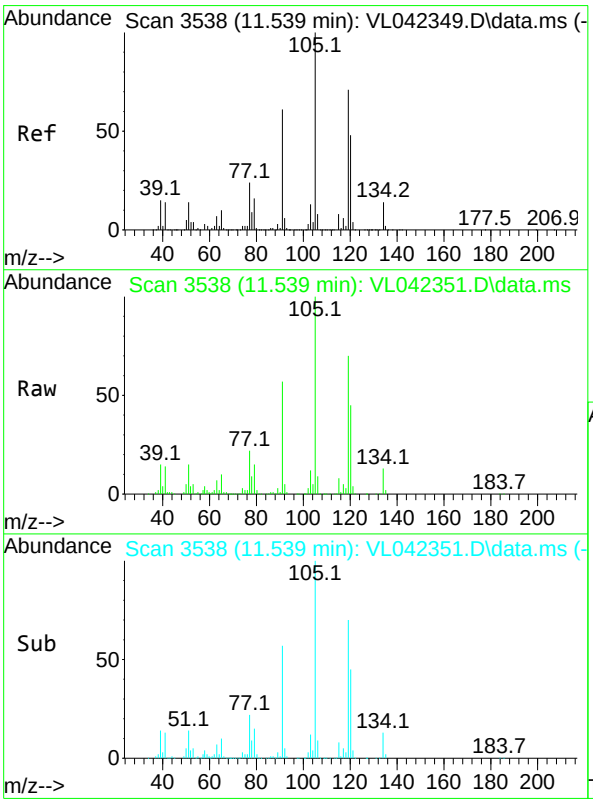
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.3 | 35.6 | 53.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

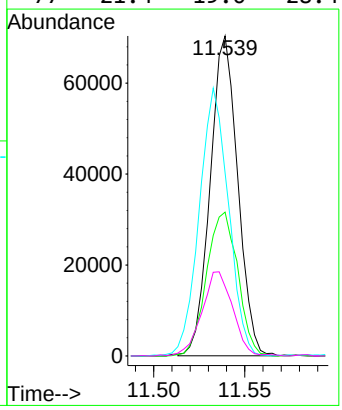
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

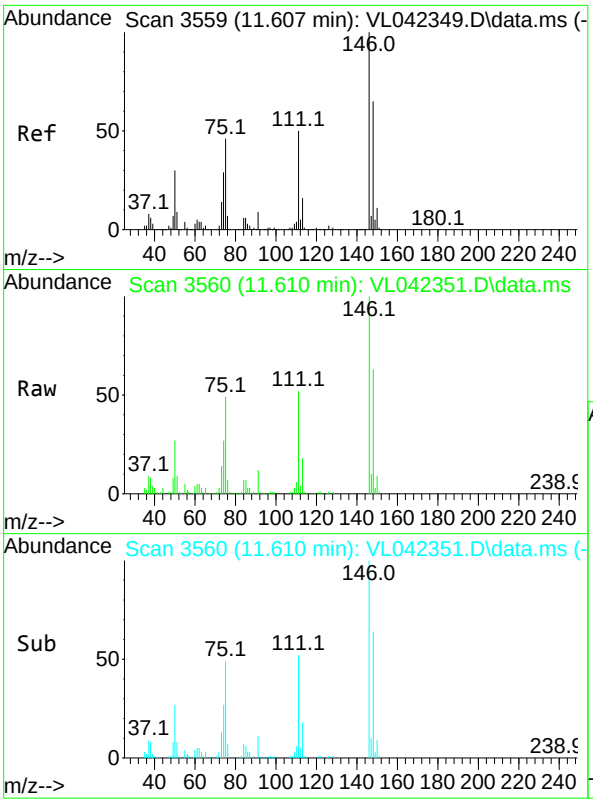



#74
1,2,4-Trimethylbenzene
Concen: 1.108 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:105 Resp: 73888

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.0 | 38.1 | 57.1 |
| 91 | 57.0 | 48.8 | 73.2 |
| 77 | 21.4 | 19.0 | 28.4 |

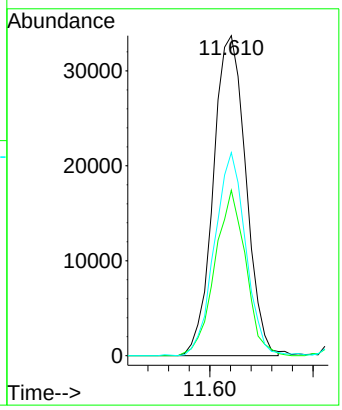





#75
1,3-Dichlorobenzene
Concen: 1.064 ppbv
RT: 11.610 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:146 Resp: 3687

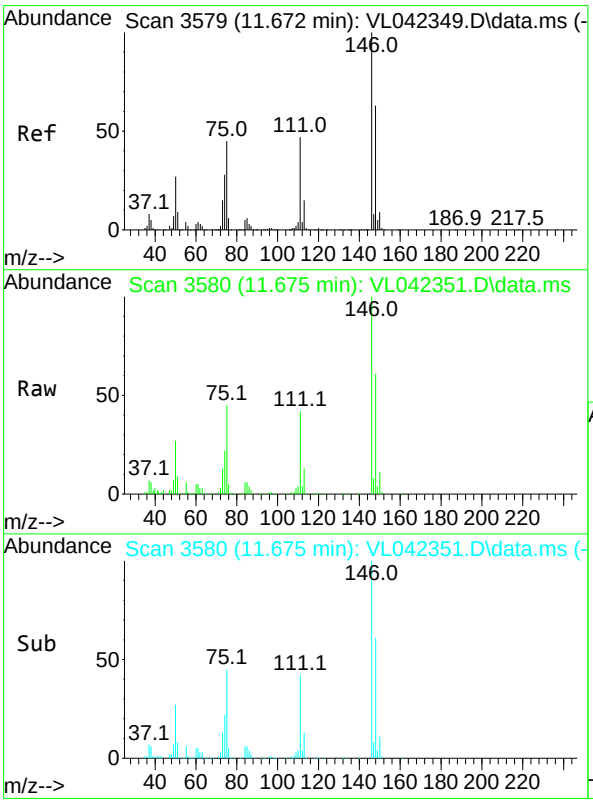
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 48.9 | 24.3 | 72.8 |
| 148 | 60.8 | 31.6 | 94.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

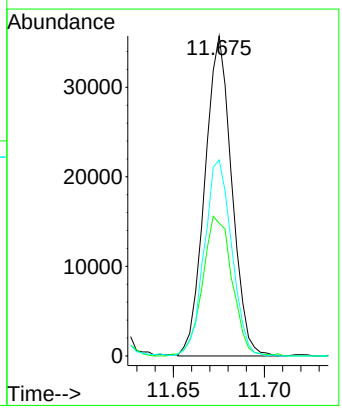
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

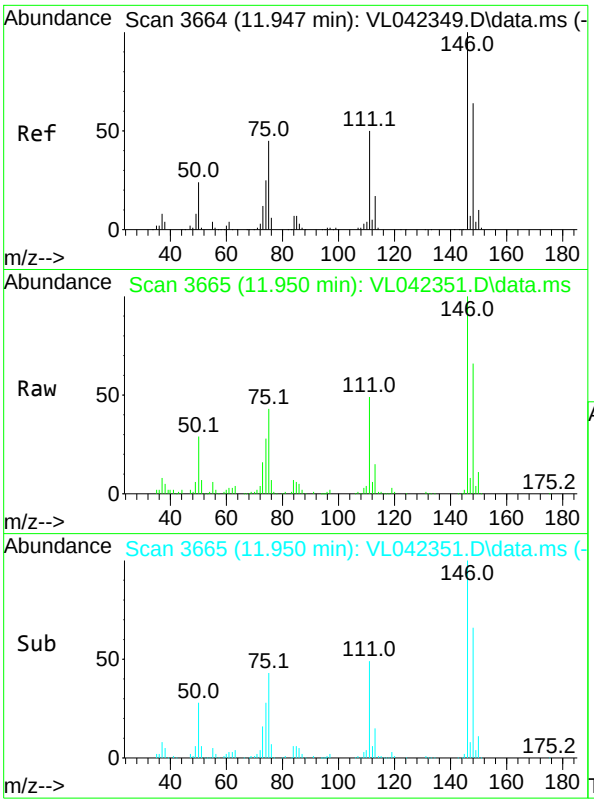



#76
1,4-Dichlorobenzene
Concen: 1.053 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:146 Resp: 36692

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 47.7 | 24.2 | 72.6 |
| 148 | 62.3 | 32.1 | 96.5 |

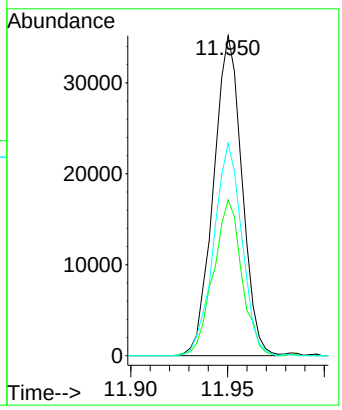





#77
1,2-Dichlorobenzene
Concen: 1.068 ppbv
RT: 11.950 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:146 Resp: 3597

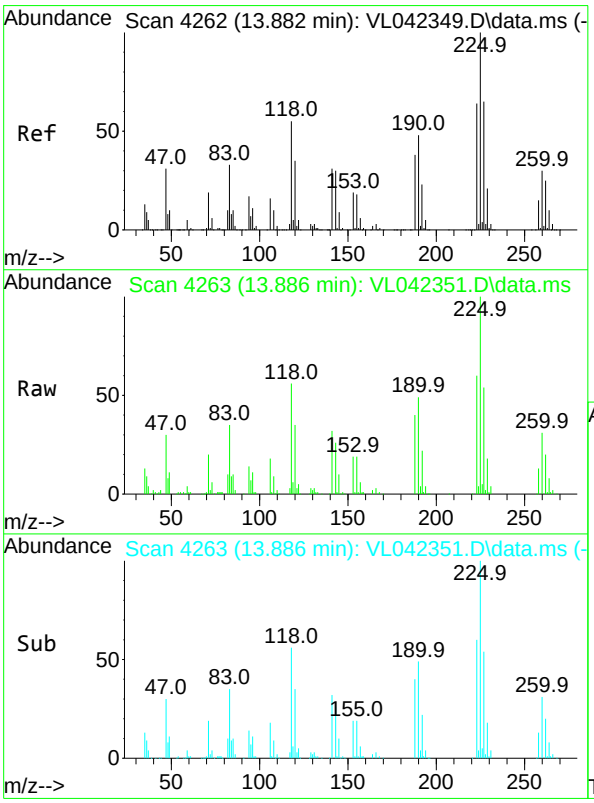
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 48.7 | 25.3 | 75.9 |
| 148 | 65.9 | 31.5 | 94.5 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

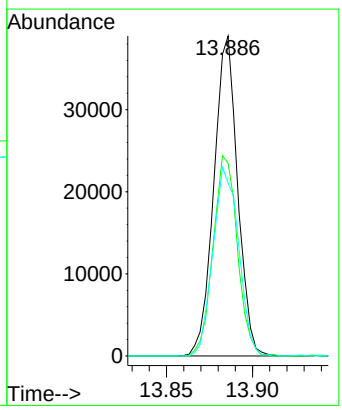
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

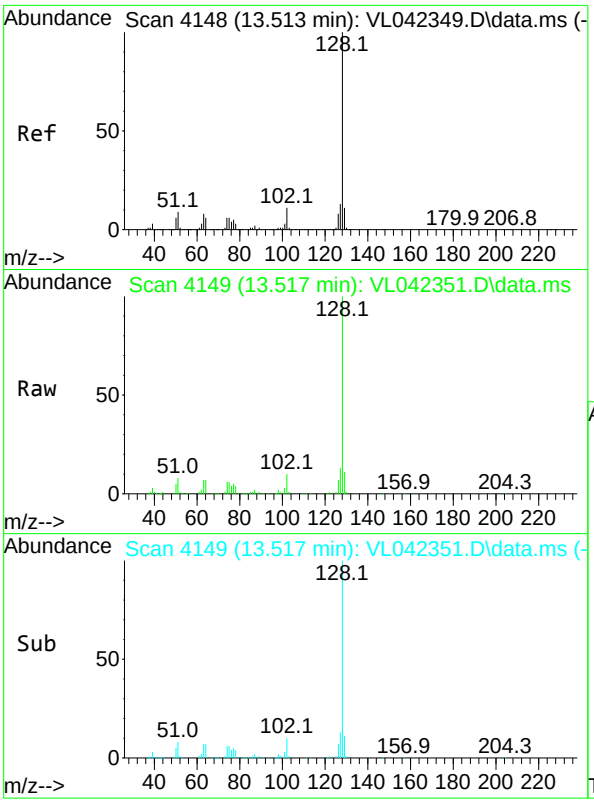



#78
Hexachloro-1,3-Butadiene
Concen: 1.098 ppbv
RT: 13.886 min Scan# 4263
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:225 Resp: 37377

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 64.1 | 50.3 | 75.5 |
| 227 | 63.6 | 51.5 | 77.3 |

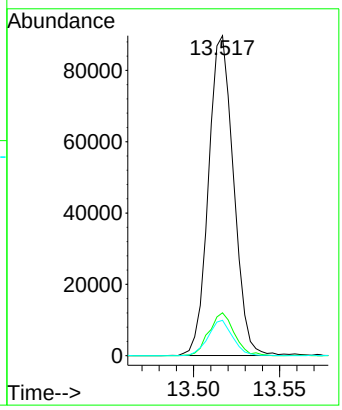





#79
Naphthalene
Concen: 1.138 ppbv
RT: 13.517 min Scan# 4
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:128 Resp: 9071

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.4 | 10.6 | 15.8 |
| 129 | 11.1 | 8.6 | 12.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

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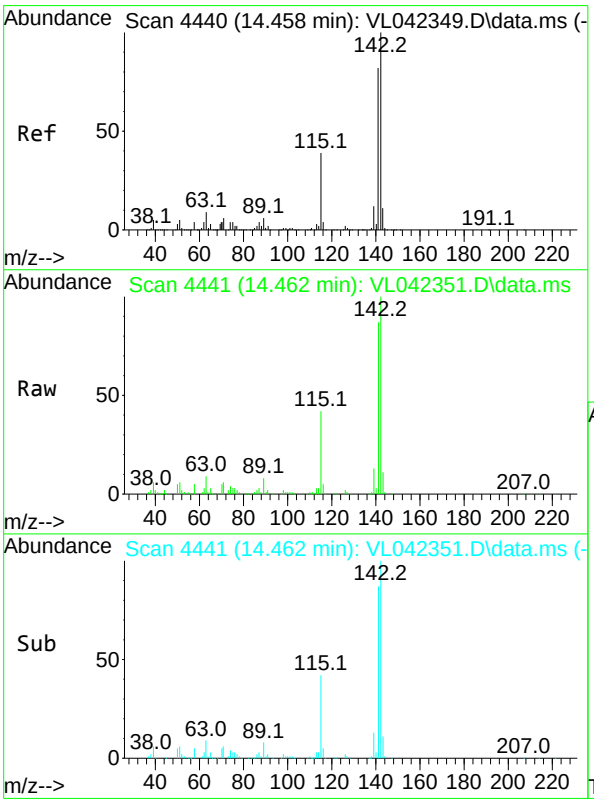
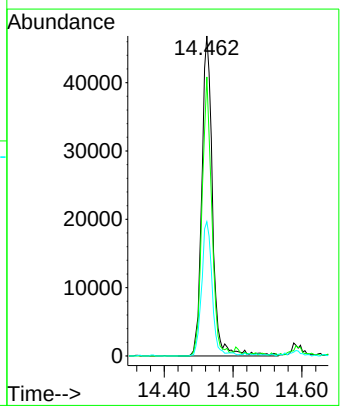
Supervised By :Mahesh Dadoda 04/18/2025

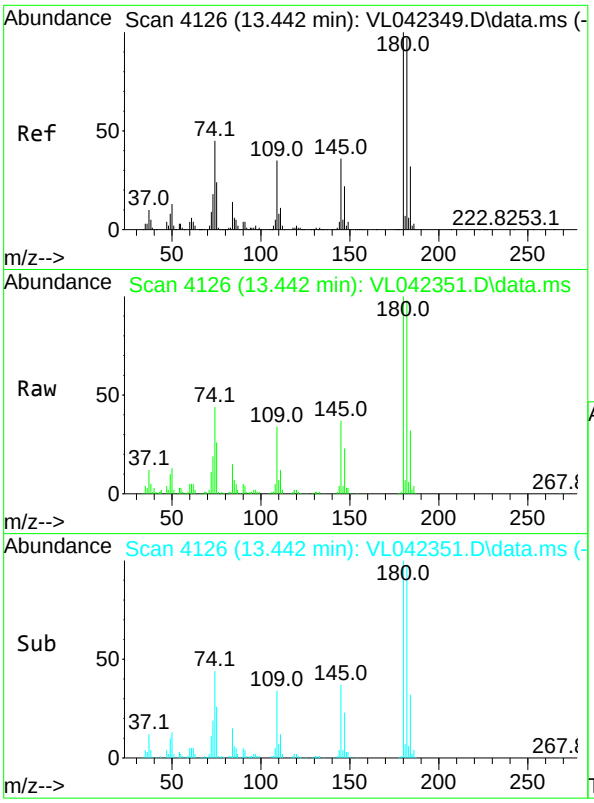



#80
Naphthalene,2-methyl-
Concen: 1.111 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:142 Resp: 50487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 80.9 | 66.8 | 100.2 |
| 115 | 41.2 | 33.4 | 50.2 |

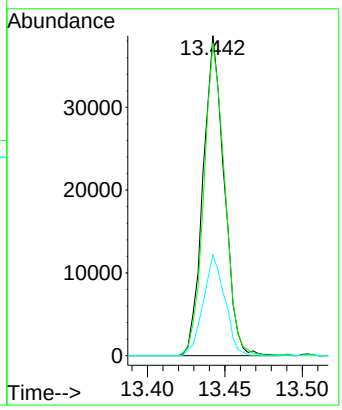





#81
1,2,4-Trichlorobenzene
Concen: 1.074 ppbv
RT: 13.442 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:180 Resp: 3676

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 97.0 | 76.8 | 115.2 |
| 184 | 32.0 | 24.6 | 36.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042352.D
Acq On : 17 Apr 2025 11:19
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 01:28:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) Bromochloromethane | 2.784 | 49 | 120542 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.952 | 114 | 353137 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.878 | 117 | 321644 | 10.000 | ppbv | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.374 | 95 | 265161 | 10.032 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 100.300% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.499 | 85 | 11036 | 0.518 | ppbv | | 92 |
| 3) Chlorodifluoromethane | 1.476 | 51 | 11304 | 0.557 | ppbv | # | 84 |
| 4) Chloromethane | 1.531 | 50 | 4534 | 0.538 | ppbv | | 97 |
| 5) Vinyl Chloride | 1.580 | 62 | 4406 | 0.480 | ppbv | | 97 |
| 6) Bromomethane | 1.667 | 94 | 2394 | 0.602 | ppbv | | 95 |
| 7) Chloroethane | 1.703 | 64 | 1824 | 0.550 | ppbv | # | 87 |
| 8) Dichlorotetrafluoroethane | 1.554 | 85 | 9381 | 0.513 | ppbv | | 99 |
| 9) Propene | 1.483 | 41 | 5303 | 0.574 | ppbv | | 93 |
| 10) Heptane | 4.978 | 43 | 14728m | 0.593 | ppbv | | |
| 11) Trichlorofluoromethane | 1.877 | 101 | 10150 | 0.501 | ppbv | | 97 |
| 12) 1,1,2-Trichlorotrifluo... | 2.136 | 101 | 8371 | 0.506 | ppbv | | 93 |
| 13) Ethanol | 1.719 | 45 | 1656m | 2.194 | ppbv | | |
| 14) Bromoethene | 1.780 | 108 | 3238 | 0.519 | ppbv | # | 93 |
| 15) Acetone | 1.835 | 43 | 11859 | 0.601 | ppbv | # | 74 |
| 16) 1,3-Butadiene | 1.609 | 39 | 6120 | 0.660 | ppbv | # | 82 |
| 17) tert-Butyl alcohol | 2.043 | 59 | 13640 | 0.558 | ppbv | # | 85 |
| 18) 1,1-Dichloroethene | 2.033 | 96 | 4430 | 0.556 | ppbv | # | 87 |
| 19) Isopropyl Alcohol | 1.884 | 45 | 6327 | 0.577 | ppbv | # | 39 |
| 20) Methylene Chloride | 2.059 | 84 | 5273 | 0.682 | ppbv | | 93 |
| 21) Allyl Chloride | 2.094 | 41 | 7692 | 0.565 | ppbv | # | 81 |
| 22) trans-1,2-Dichloroethene | 2.340 | 96 | 4908 | 0.557 | ppbv | | 92 |
| 23) Vinyl Acetate | 2.460 | 43 | 3953 | 0.495 | ppbv | # | 57 |
| 24) 1,1-Dichloroethane | 2.408 | 63 | 8753 | 0.523 | ppbv | # | 94 |
| 25) Ethyl Acetate | 2.835 | 43 | 26686 | 0.548 | ppbv | # | 93 |
| 26) Hexane | 2.823 | 57 | 11448 | 0.581 | ppbv | | 91 |
| 27) Carbon Disulfide | 2.149 | 76 | 11472 | 0.544 | ppbv | # | 1 |
| 28) Methyl tert-Butyl Ether | 2.441 | 73 | 6833 | 0.530 | ppbv | # | 32 |
| 29) Chloroform | 2.848 | 83 | 14815 | 0.532 | ppbv | | 93 |
| 30) Cyclohexane | 3.852 | 84 | 8572 | 0.541 | ppbv | | 94 |
| 31) cis-1,2-Dichloroethene | 2.722 | 61 | 9571 | 0.511 | ppbv | | 96 |
| 32) 1,1,1-Trichloroethane | 3.370 | 97 | 15413 | 0.516 | ppbv | | 97 |
| 34) 2-Butanone | 2.560 | 43 | 15640 | 0.560 | ppbv | | 97 |
| 35) Carbon Tetrachloride | 3.761 | 117 | 14683 | 0.459 | ppbv | | 87 |
| 36) Benzene | 3.651 | 78 | 20233 | 0.531 | ppbv | | 97 |
| 37) 1,2-Dichloroethane | 3.217 | 62 | 12194 | 0.533 | ppbv | # | 95 |
| 38) Trichloroethene | 4.551 | 130 | 7819 | 0.468 | ppbv | # | 78 |
| 39) 1,2-Dichloropropane | 4.308 | 63 | 7790m | 0.548 | ppbv | | |
| 40) 1,4-Dioxane | 4.599 | 88 | 4637m | 0.603 | ppbv | | |
| 41) Tetrahydrofuran | 3.062 | 42 | 9144m | 0.567 | ppbv | | |
| 42) Bromodichloromethane | 4.489 | 83 | 16642 | 0.523 | ppbv | # | 91 |
| 43) Methyl Methacrylate | 4.881 | 69 | 9620m | 0.563 | ppbv | | |
| 44) 2,2,4-Trimethylpentane | 4.635 | 57 | 34170 | 0.519 | ppbv | | 91 |
| 45) t-1,3-Dichloropropene | 6.415 | 75 | 9073m | 0.517 | ppbv | | |

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042352.D
Acq On : 17 Apr 2025 11:19
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 01:28:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.596 | 75 | 10827m | 0.505 | ppbv | | |
| 47) 1,1,2-Trichloroethane | 6.577 | 97 | 7466m | 0.516 | ppbv | | |
| 48) Dibromochloromethane | 7.386 | 129 | 13122 | 0.514 | ppbv | | 97 |
| 49) Bromoform | 9.477 | 173 | 10988 | 0.492 | ppbv | | 99 |
| 50) 4-Methyl-2-Pentanone | 5.761 | 43 | 27206m | 0.585 | ppbv | | |
| 51) 2-Hexanone | 7.441 | 43 | 23684 | 0.564 | ppbv | | 98 |
| 52) Tetrachloroethene | 8.221 | 164 | 7412 | 0.503 | ppbv | # | 88 |
| 53) Toluene | 6.927 | 91 | 24200 | 0.529 | ppbv | | 97 |
| 54) 1,2-Dibromoethane | 7.645 | 107 | 10282 | 0.499 | ppbv | | 84 |
| 56) 1,1,1,2-Tetrachloroethane | 8.930 | 131 | 9987 | 0.513 | ppbv | # | 1 |
| 57) Chlorobenzene | 8.917 | 112 | 18149m | 0.543 | ppbv | | |
| 58) Ethyl Benzene | 9.351 | 91 | 32624 | 0.512 | ppbv | | 97 |
| 59) m/p-Xylene | 9.532 | 91 | 54197m | 1.053 | ppbv | | |
| 60) o-Xylene | 9.963 | 91 | 27983 | 0.541 | ppbv | | 99 |
| 61) Styrene | 9.869 | 104 | 12736 | 0.516 | ppbv | | 96 |
| 62) Isopropylbenzene | 10.539 | 105 | 40481 | 0.533 | ppbv | | 100 |
| 63) 1,1,2,2-Tetrachloroethane | 9.959 | 83 | 15920 | 0.474 | ppbv | | 99 |
| 64) n-propylbenzene | 10.985 | 120 | 10369 | 0.544 | ppbv | | 97 |
| 65) tert-Butylbenzene | 11.529 | 119 | 37294 | 0.535 | ppbv | | 93 |
| 66) Benzyl Chloride | 11.613 | 91 | 3878 | 0.506 | ppbv | # | 91 |
| 67) sec-Butylbenzene | 11.765 | 105 | 52139 | 0.537 | ppbv | | 97 |
| 69) p-Isopropyltoluene | 11.924 | 119 | 45574 | 0.541 | ppbv | | 98 |
| 70) n-Butylbenzene | 12.280 | 91 | 48004 | 0.547 | ppbv | | 99 |
| 71) 2-Chlorotoluene | 10.898 | 91 | 31709 | 0.533 | ppbv | | 100 |
| 72) 4-Ethyltoluene | 11.125 | 105 | 33048 | 0.523 | ppbv | # | 95 |
| 73) 1,3,5-Trimethylbenzene | 11.202 | 105 | 30464 | 0.546 | ppbv | | 99 |
| 74) 1,2,4-Trimethylbenzene | 11.536 | 105 | 37765 | 0.579 | ppbv | # | 90 |
| 75) 1,3-Dichlorobenzene | 11.607 | 146 | 18003 | 0.531 | ppbv | | 99 |
| 76) 1,4-Dichlorobenzene | 11.668 | 146 | 18300 | 0.537 | ppbv | | 96 |
| 77) 1,2-Dichlorobenzene | 11.947 | 146 | 17446 | 0.530 | ppbv | | 95 |
| 78) Hexachloro-1,3-Butadiene | 13.879 | 225 | 18705 | 0.562 | ppbv | | 98 |
| 79) Naphthalene | 13.513 | 128 | 38521 | 0.494 | ppbv | # | 92 |
| 80) Naphthalene,2-methyl- | 14.458 | 142 | 21076 | 0.475 | ppbv | | 96 |
| 81) 1,2,4-Trichlorobenzene | 13.442 | 180 | 16504 | 0.493 | ppbv | | 97 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

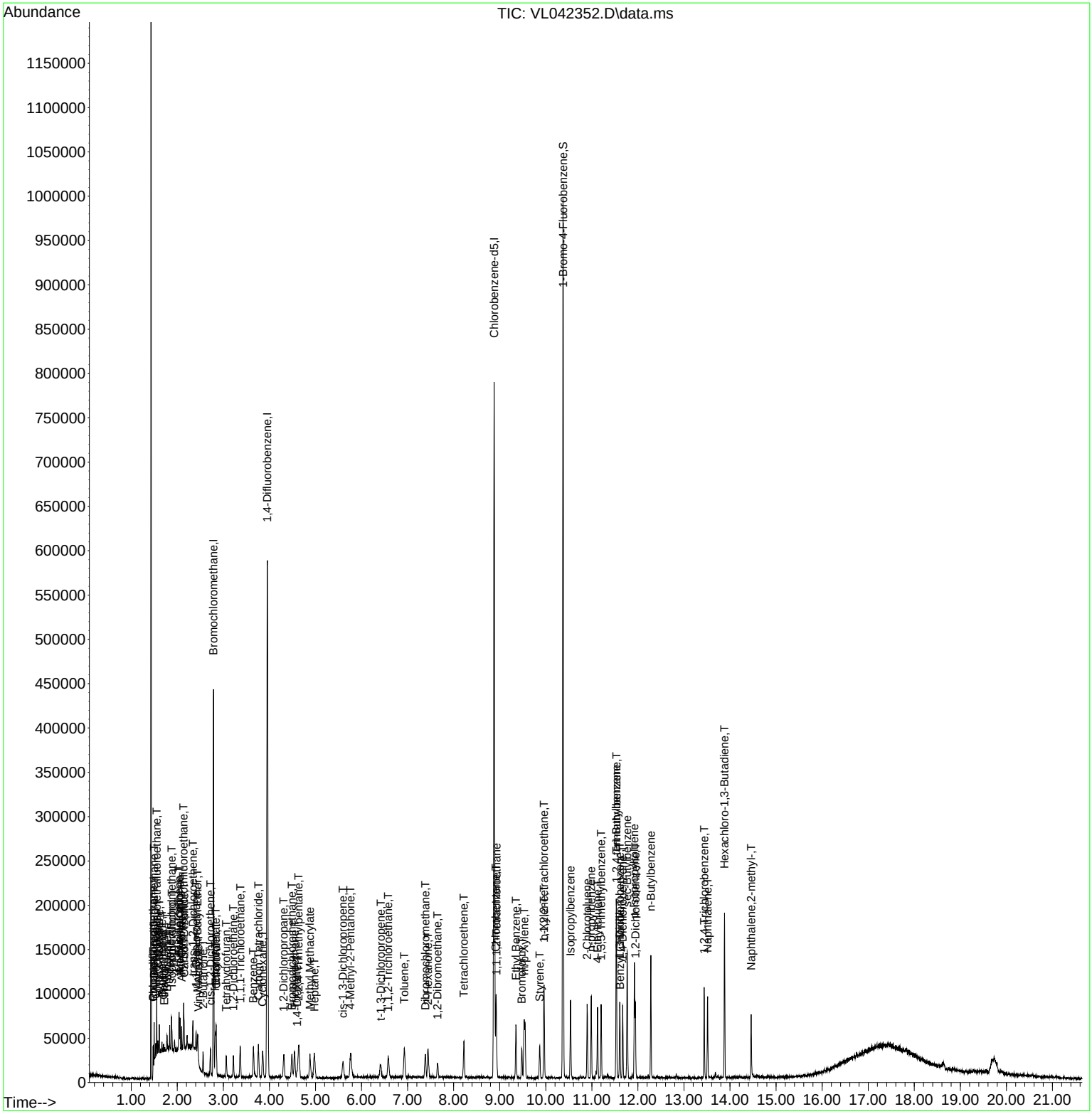
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042352.D
Acq On : 17 Apr 2025 11:19
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

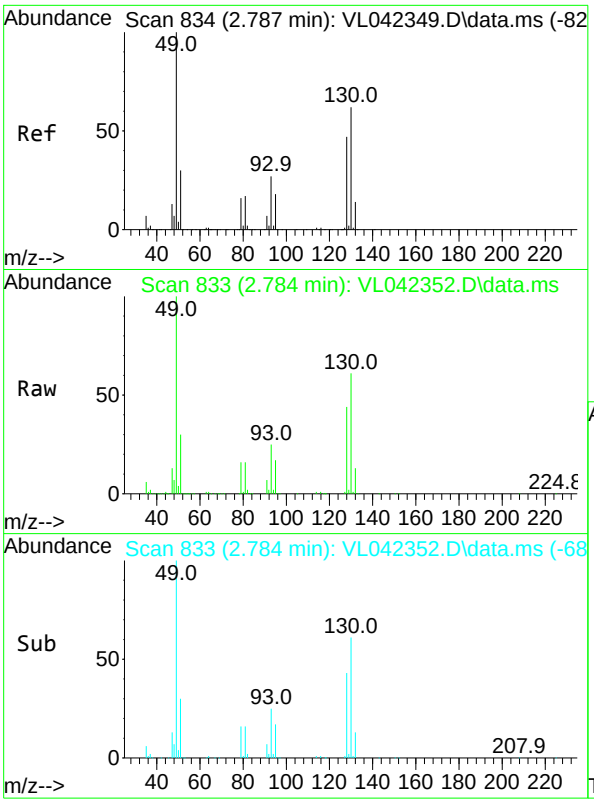
Quant Time: Apr 18 01:28:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025






#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

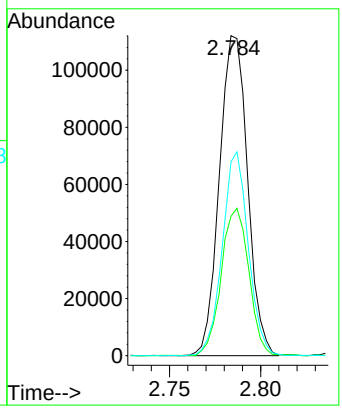
Tgt Ion: 49 Resp: 12054

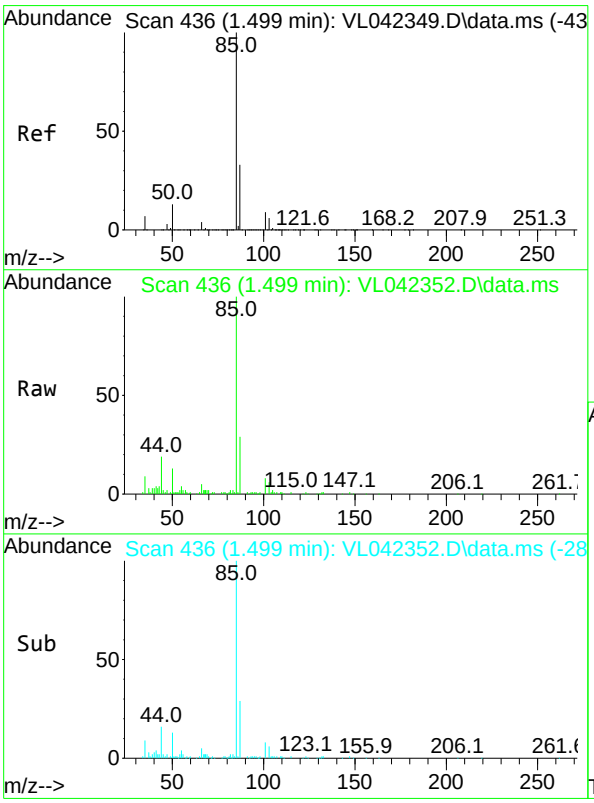
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 45.3 | 22.8 | 68.4 |
| 130 | 59.0 | 29.3 | 88.0 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

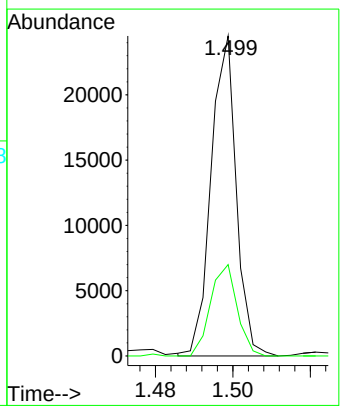


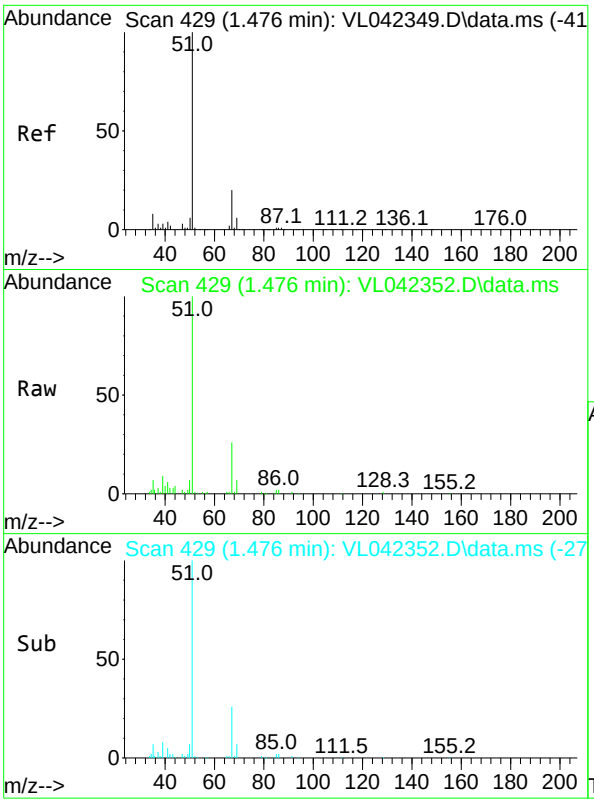




#2
Dichlorodifluoromethane
Concen: 0.518 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 85 Resp: 11036

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 28.6 | 26.6 | 39.8 |

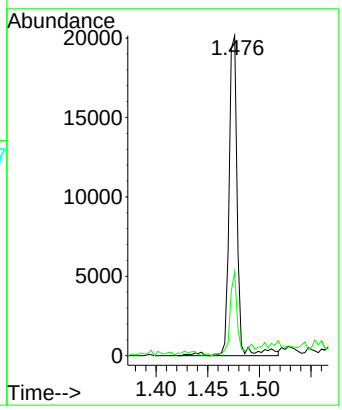





#3
Chlorodifluoromethane
Concen: 0.557 ppbv
RT: 1.476 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 51 Resp: 1130

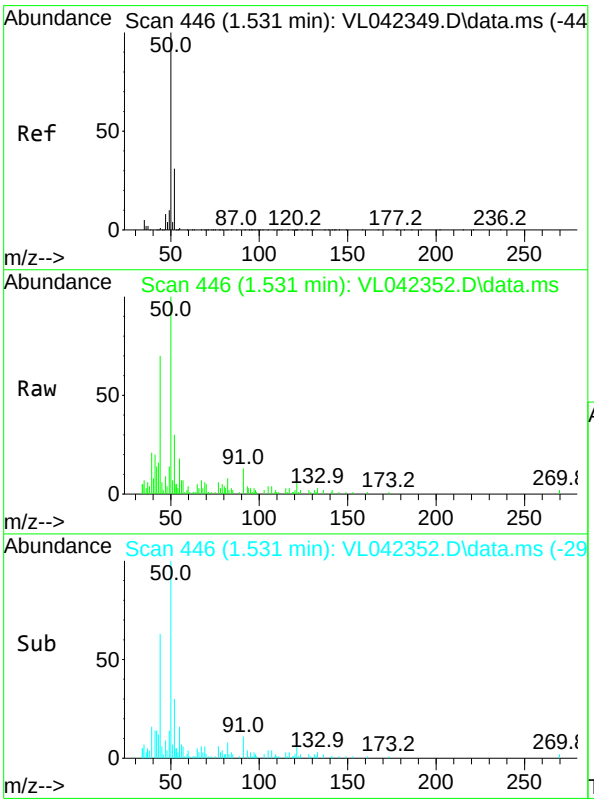
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 27.8 | 16.2 | 24.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
**APPROVED**

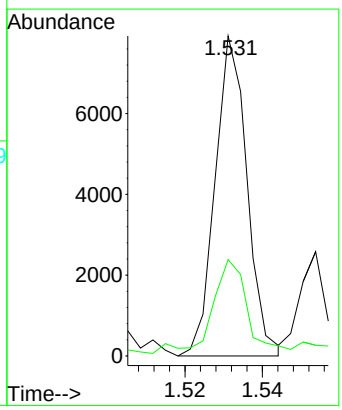
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

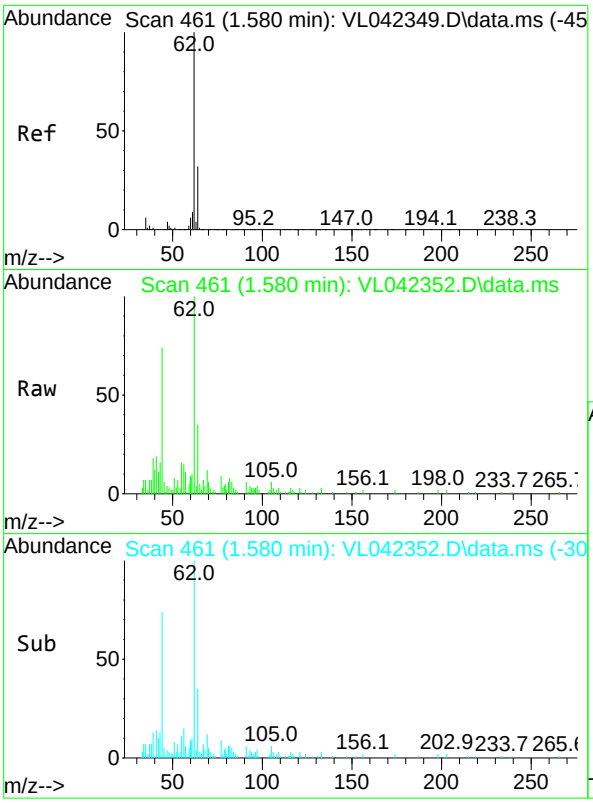



#4
Chloromethane
Concen: 0.538 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 50 Resp: 4534

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.8 | 24.7 | 37.1 |

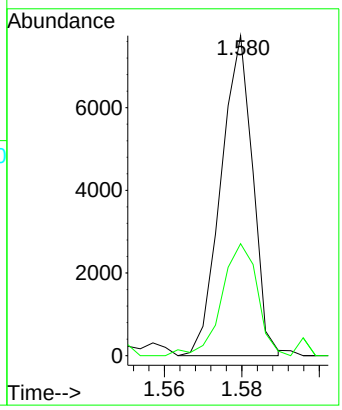





#5
Vinyl Chloride
Concen: 0.480 ppbv
RT: 1.580 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 62 Resp: 440

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 33.5 | 25.4 | 38.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
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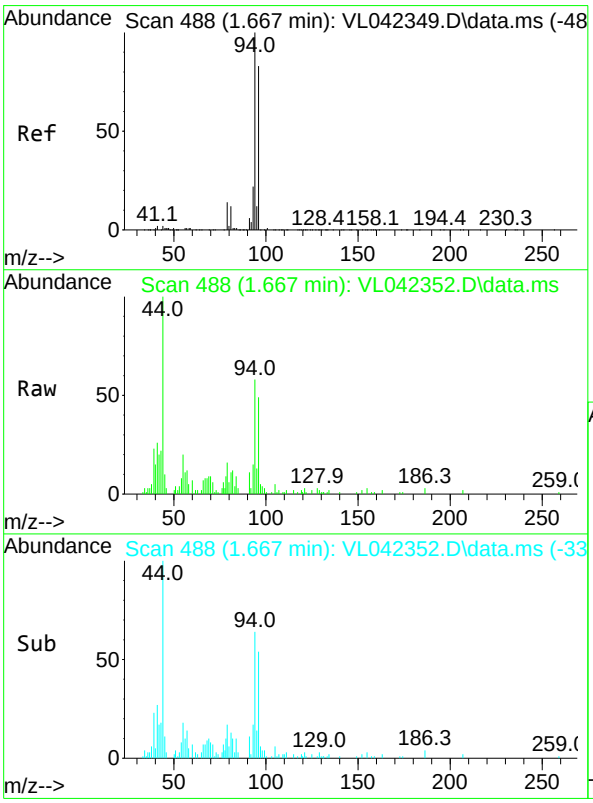
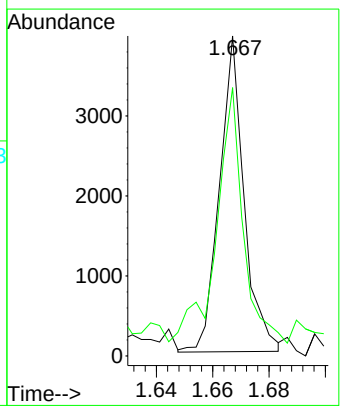
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

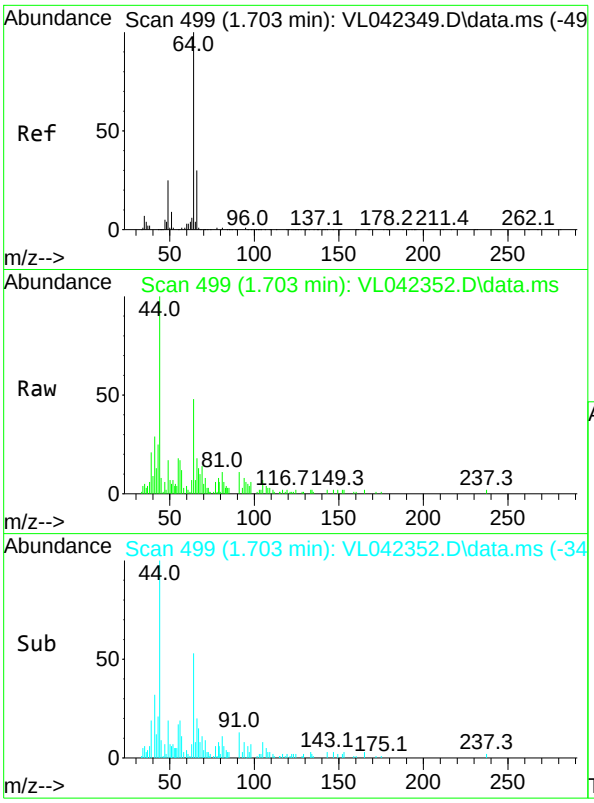



#6
Bromomethane
Concen: 0.602 ppbv
RT: 1.667 min Scan# 488
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 94 Resp: 2394

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 78.1 | 66.2 | 99.2 |

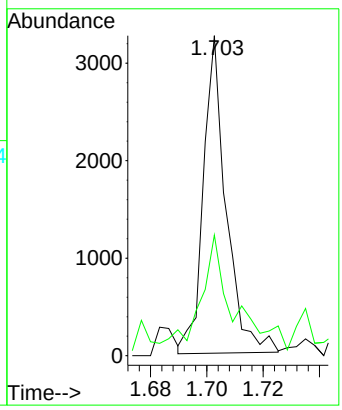





#7
Chloroethane
Concen: 0.550 ppbv
RT: 1.703 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 64 Resp: 182

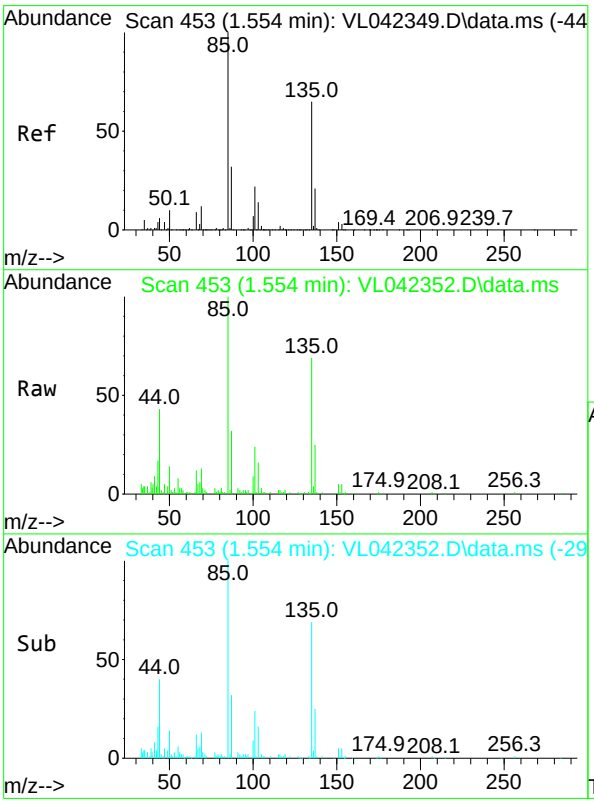
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 37.7 | 24.6 | 37.0# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
**APPROVED**

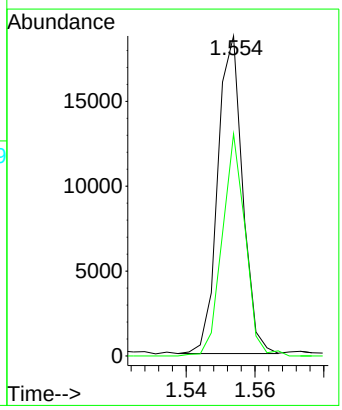
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

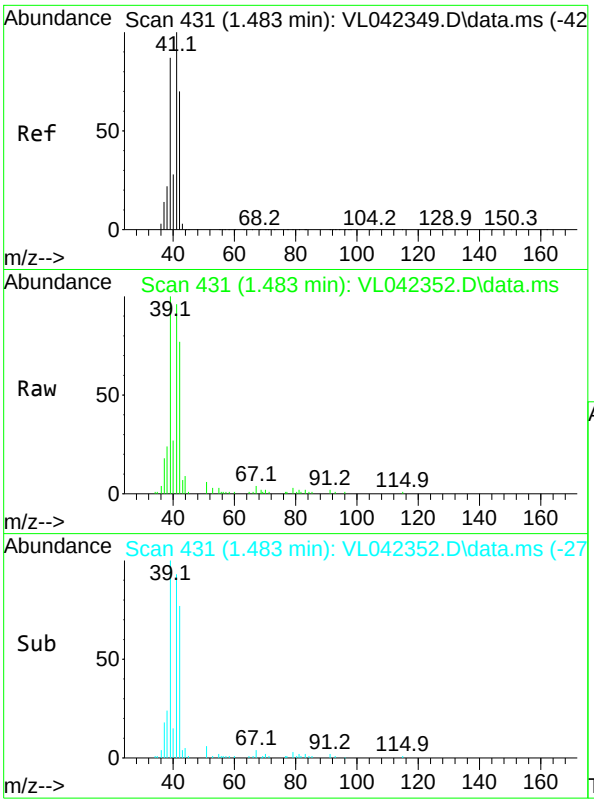



#8
Dichlorotetrafluoroethane
Concen: 0.513 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 85 Resp: 9381

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 66.2 | 52.2 | 78.2 |

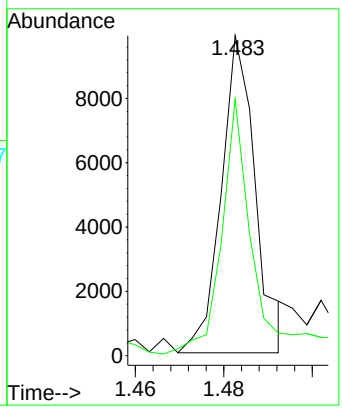





#9
Propene
Concen: 0.574 ppbv
RT: 1.483 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 41 Resp: 530

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 64.8 | 56.2 | 84.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
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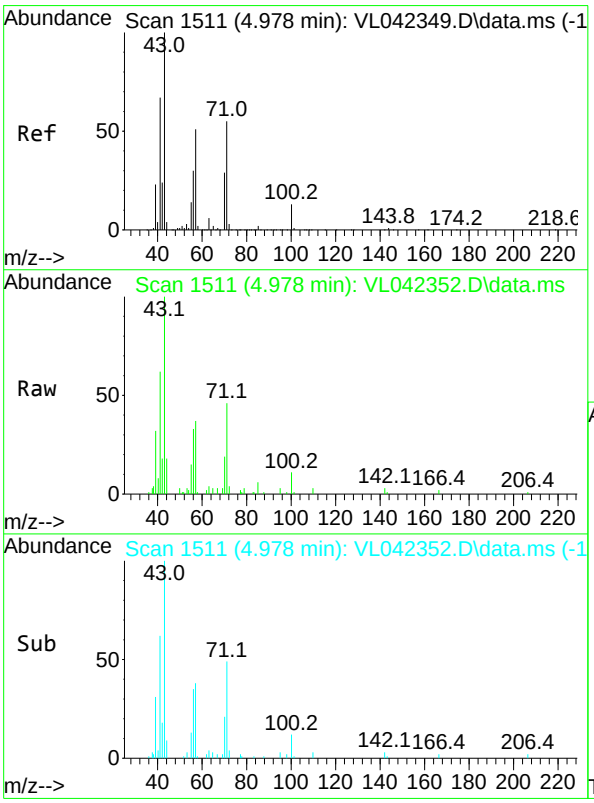
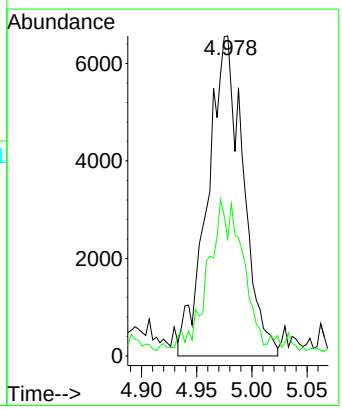
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

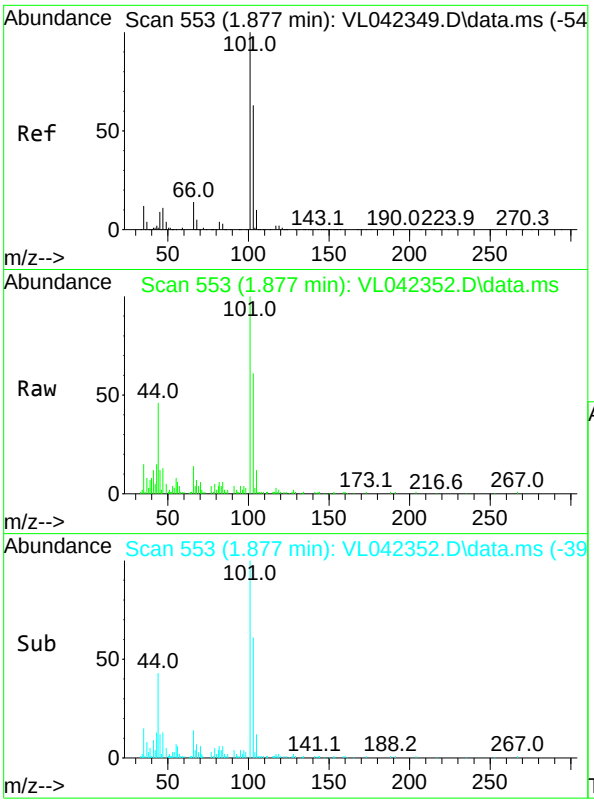



#10
Heptane
Concen: 0.593 ppbv m
RT: 4.978 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 43 Resp: 14728

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 51.1 | 39.9 | 59.9 |






#11
Trichlorofluoromethane
Concen: 0.501 ppbv
RT: 1.877 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

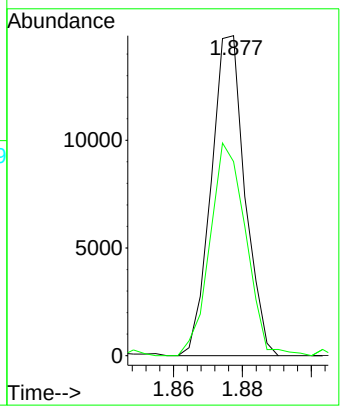
Tgt Ion:101 Resp: 1015

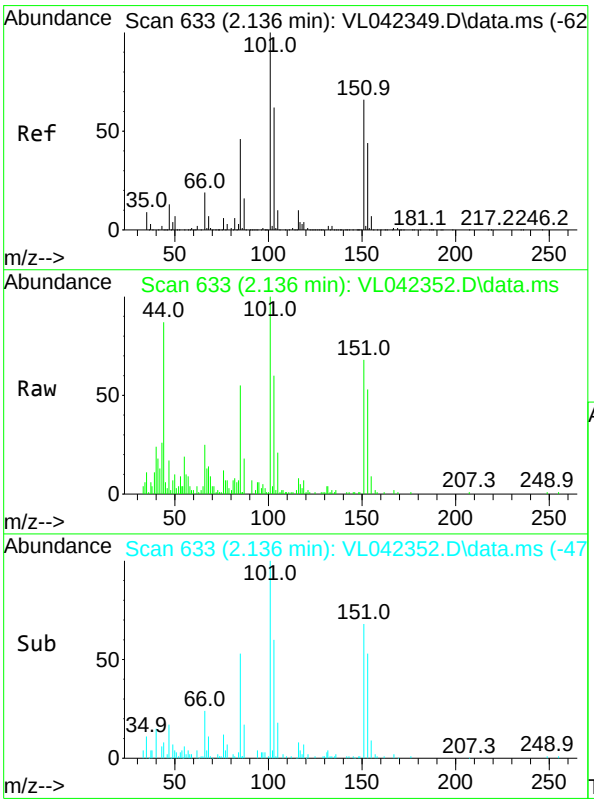
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 60.6 | 50.1 | 75.1 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

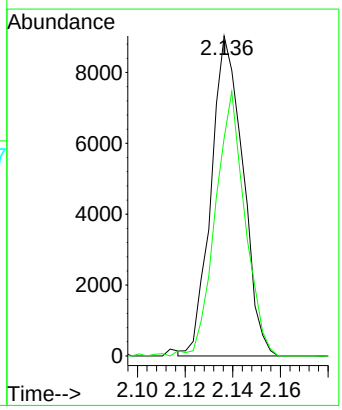


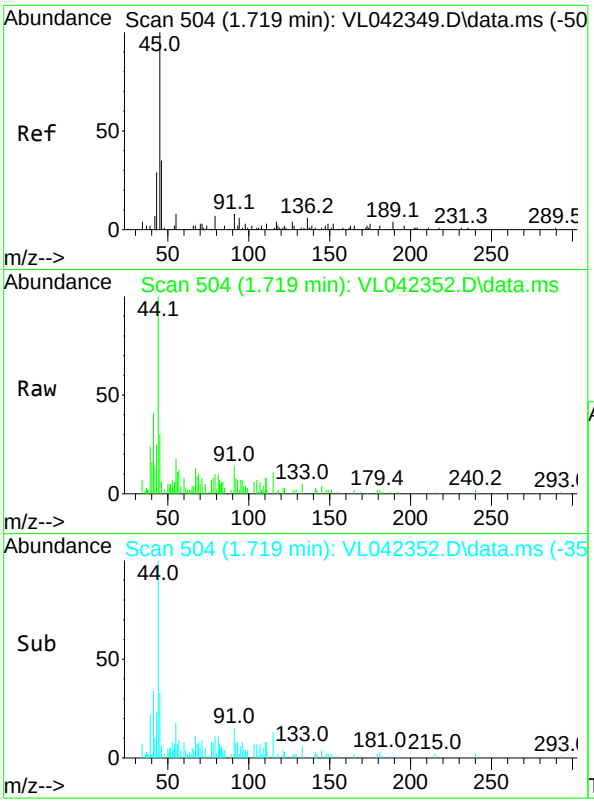




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.506 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:101 Resp: 8371

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 77.4 | 57.0 | 85.6 |

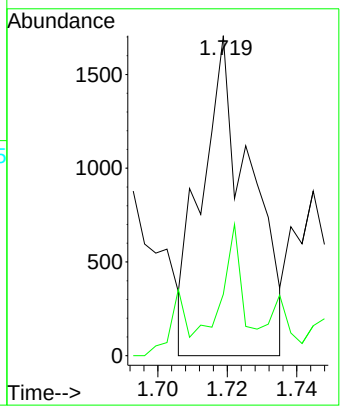





#13
Ethanol
Concen: 2.194 ppbv m
RT: 1.719 min Scan# 5(
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 45 Resp: 165(

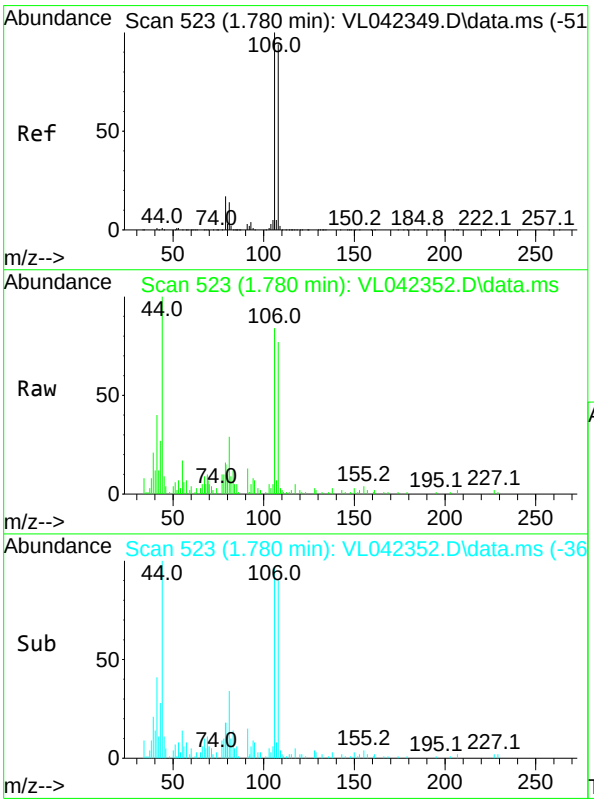
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 0.0 | 21.9 | 87.7# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
**APPROVED**

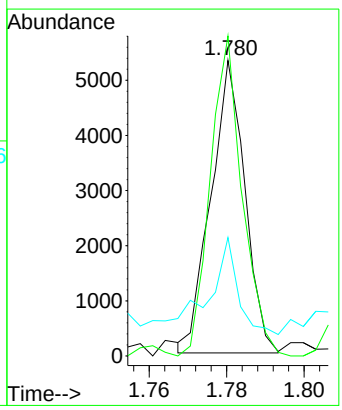
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

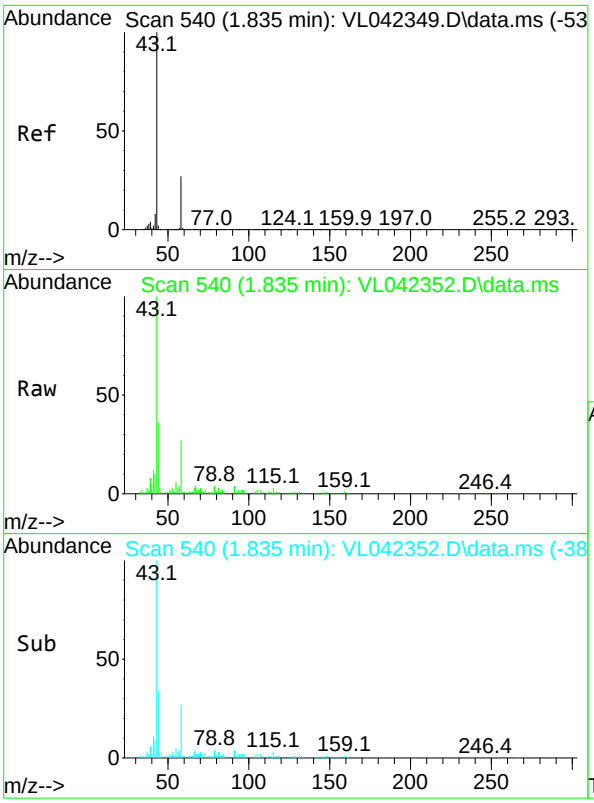



#14
Bromoethene
Concen: 0.519 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:108 Resp: 3238

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 106 | 110.3 | 85.9 | 128.9 |
| 79 | 33.0 | 13.9 | 20.9# |






#15
Acetone
Concen: 0.601 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 43 Resp: 1185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 41.7 | 22.4 | 33.6# |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
**APPROVED**

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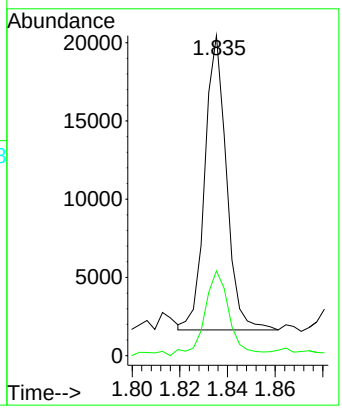
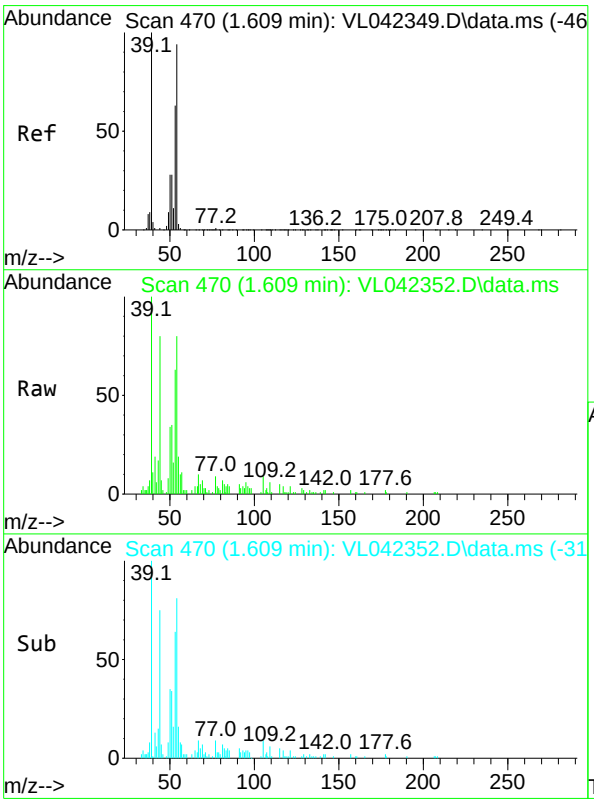
Supervised By :Mahesh Dadoda 04/18/2025

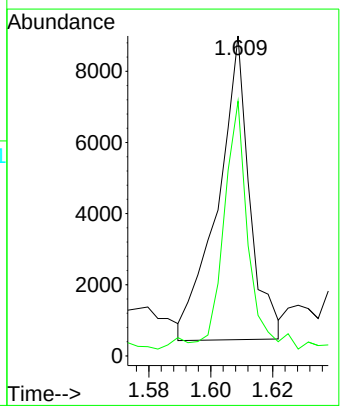


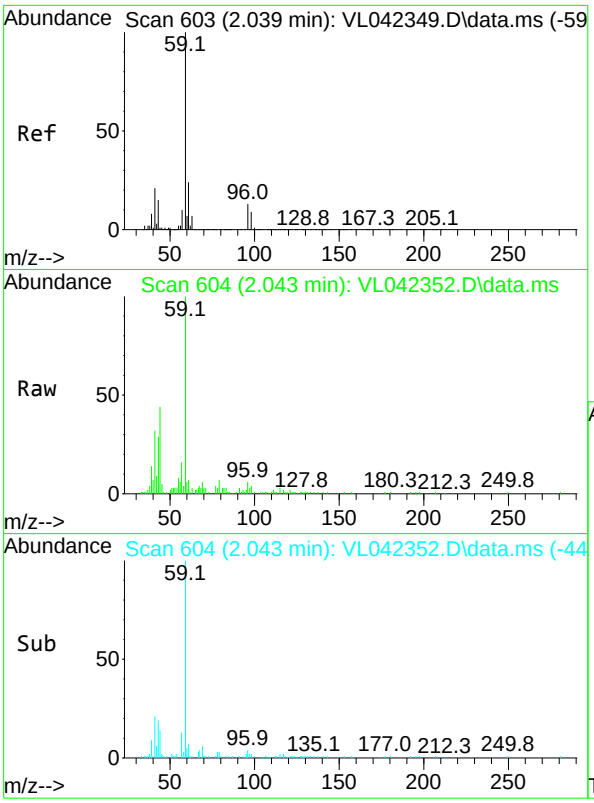




#16
1,3-Butadiene
Concen: 0.660 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 39 Resp: 6120

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 64.7 | 64.9 | 97.3# |






#17
tert-Butyl alcohol
Concen: 0.558 ppbv
RT: 2.043 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

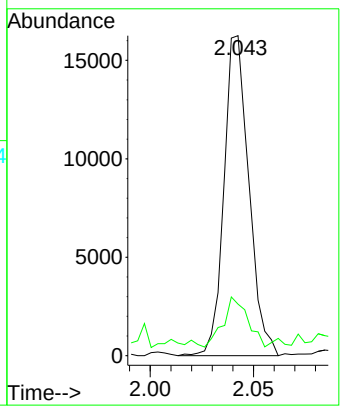
Tgt Ion: 59 Resp: 1364

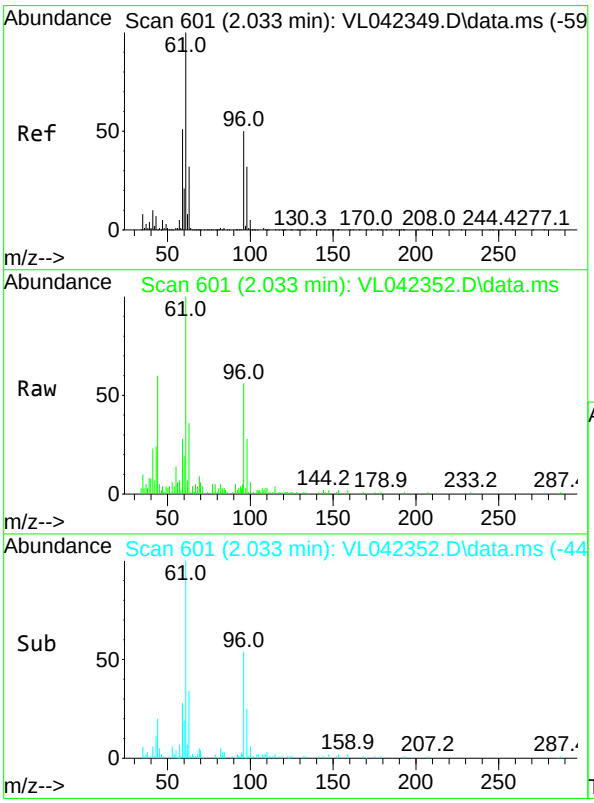
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 16.5 | 8.7 | 13.1# |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

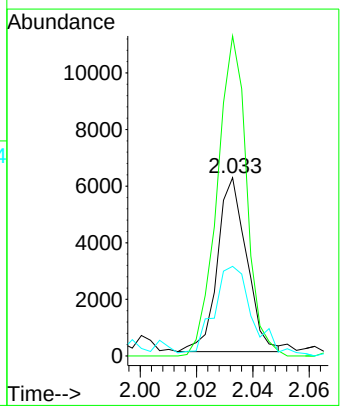


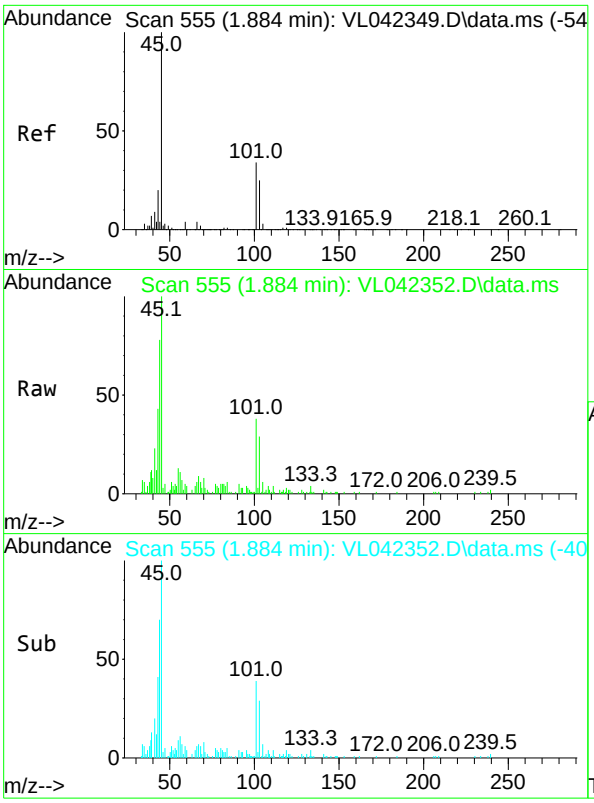




#18
1,1-Dichloroethene
Concen: 0.556 ppbv
RT: 2.033 min Scan# 601
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 96 Resp: 4430

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 183.9 | 160.2 | 240.2 |
| 98 | 49.7 | 51.0 | 76.4# |






#19
Isopropyl Alcohol
Concen: 0.577 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 45 Resp: 632

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 3.8 | 34.5 | 51.7# |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
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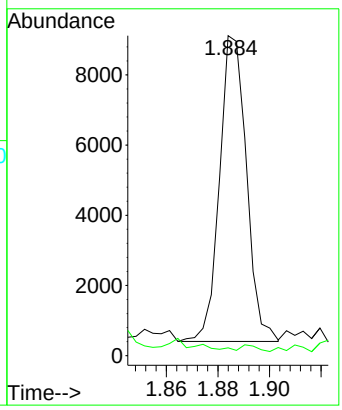
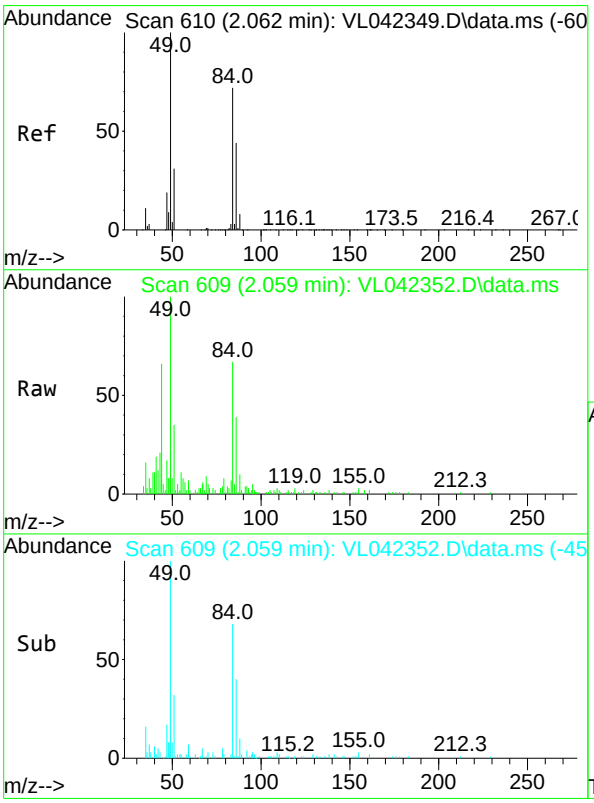
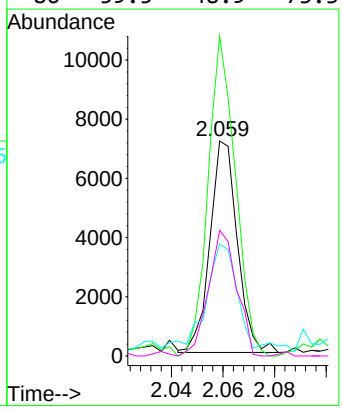


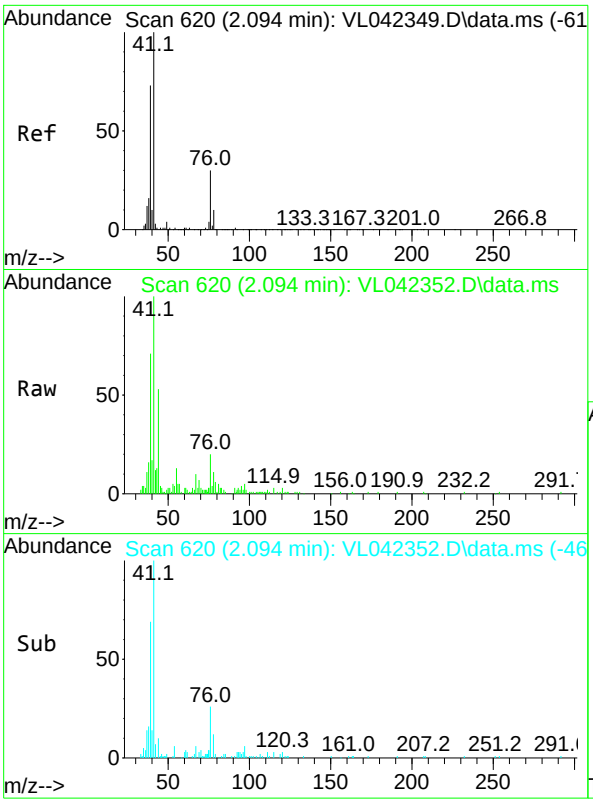




#20
Methylene Chloride
Concen: 0.682 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 84 Resp: 5273

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 151.3 | 111.6 | 167.4 |
| 51 | 48.1 | 35.1 | 52.7 |
| 86 | 59.5 | 48.9 | 73.3 |

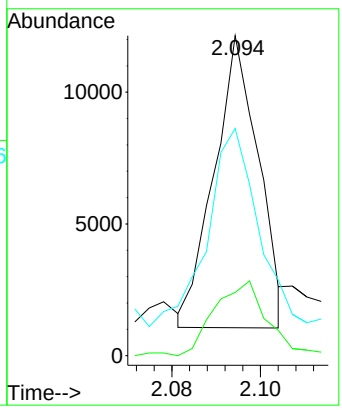





#21
Allyl Chloride
Concen: 0.565 ppbv
RT: 2.094 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 41 Resp: 769

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 31.1 | 24.8 | 37.2 |
| 39 | 98.8 | 60.6 | 90.8# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
**APPROVED**

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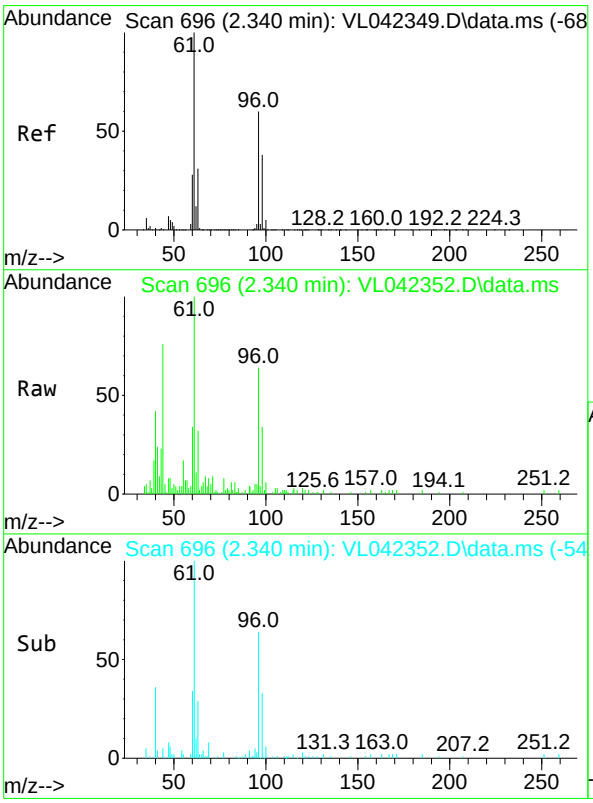
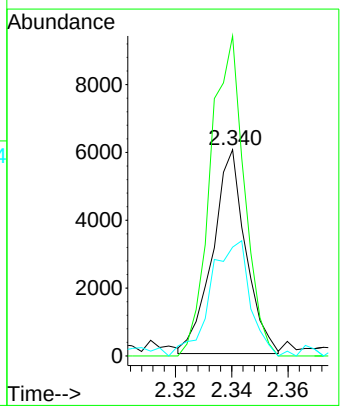
Supervised By :Mahesh Dadoda 04/18/2025

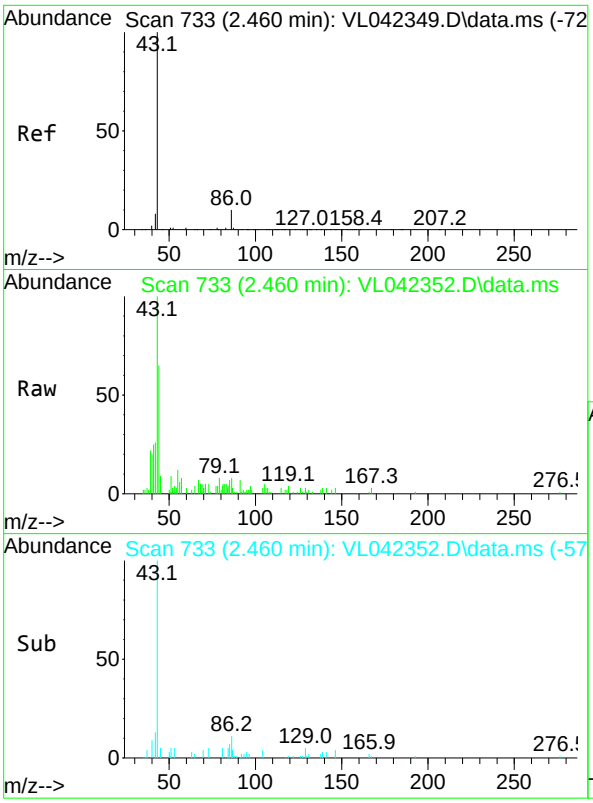



#22
trans-1,2-Dichloroethene
Concen: 0.557 ppbv
RT: 2.340 min Scan# 696
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 96 Resp: 4908

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 158.7 | 133.7 | 200.5 |
| 98 | 54.0 | 50.3 | 75.5 |

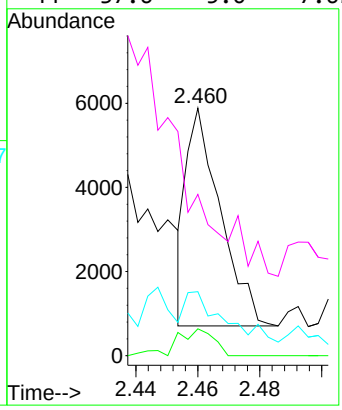





#23
Vinyl Acetate
Concen: 0.495 ppbv
RT: 2.460 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 43 Resp: 395

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 12.4 | 6.5 | 9.7# |
| 42 | 23.2 | 7.8 | 11.8# |
| 44 | 37.6 | 5.0 | 7.6# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
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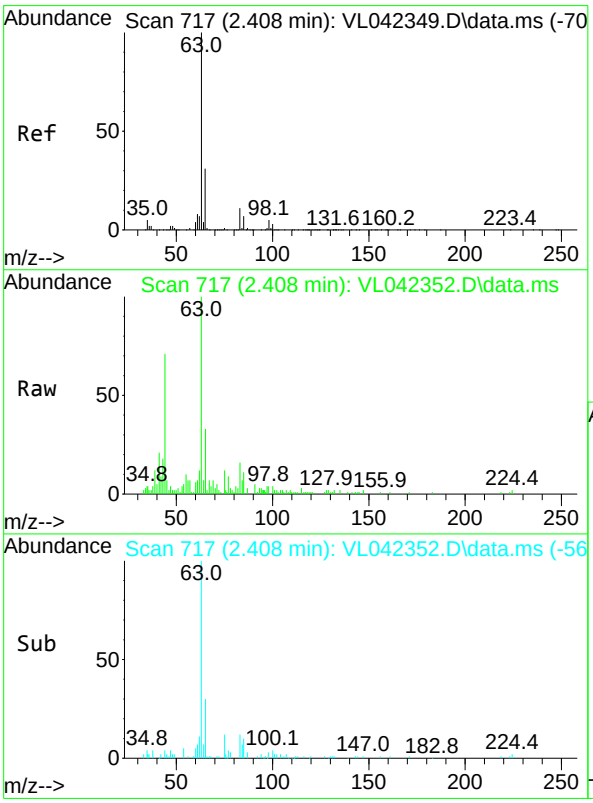
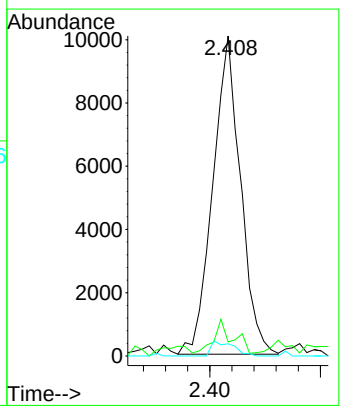
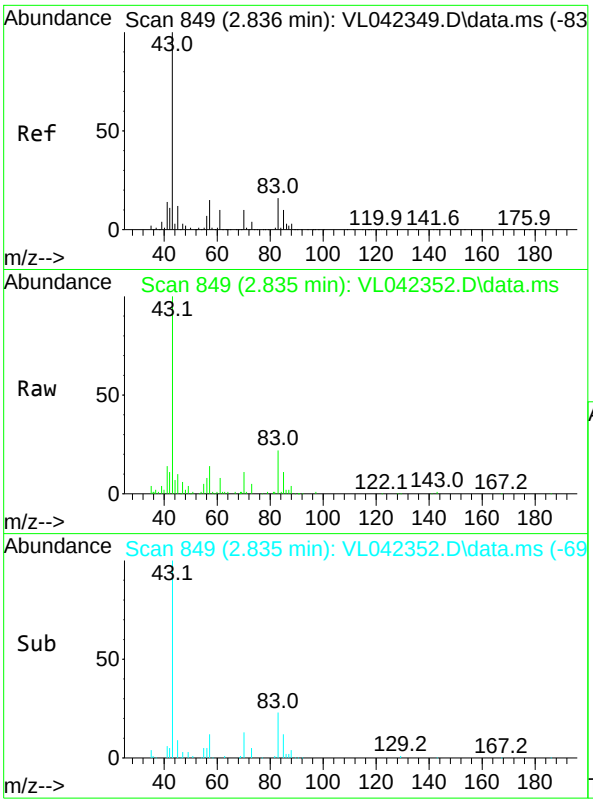



#24
1,1-Dichloroethane
Concen: 0.523 ppbv
RT: 2.408 min Scan# 717
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 63 Resp: 8753

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 1.4 | 2.3 | 6.8# |
| 100 | 3.8 | 1.6 | 4.8 |

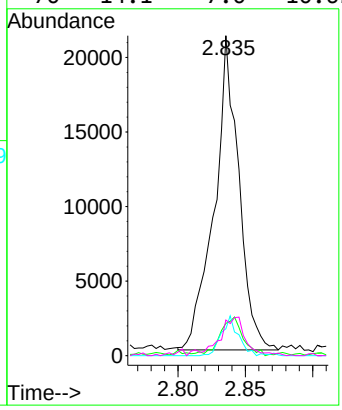





#25
Ethyl Acetate
Concen: 0.548 ppbv
RT: 2.835 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 43 Resp: 2668

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 13.3 | 8.3 | 12.5# |
| 61 | 9.0 | 7.3 | 10.9 |
| 70 | 14.1 | 7.0 | 10.6# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
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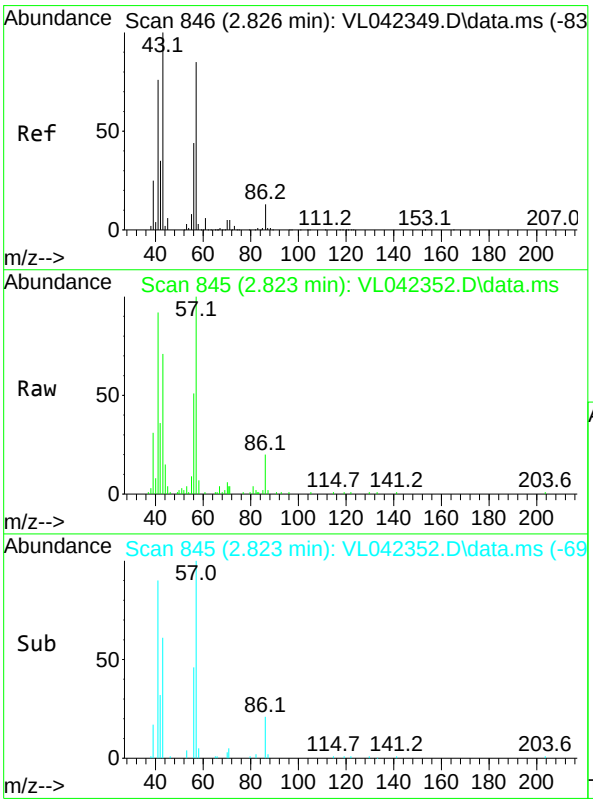
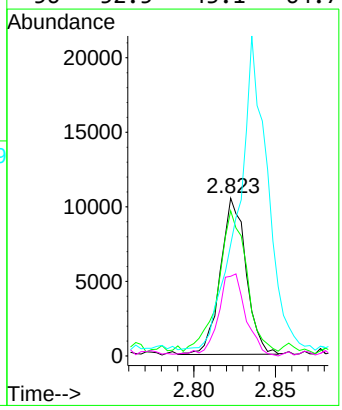
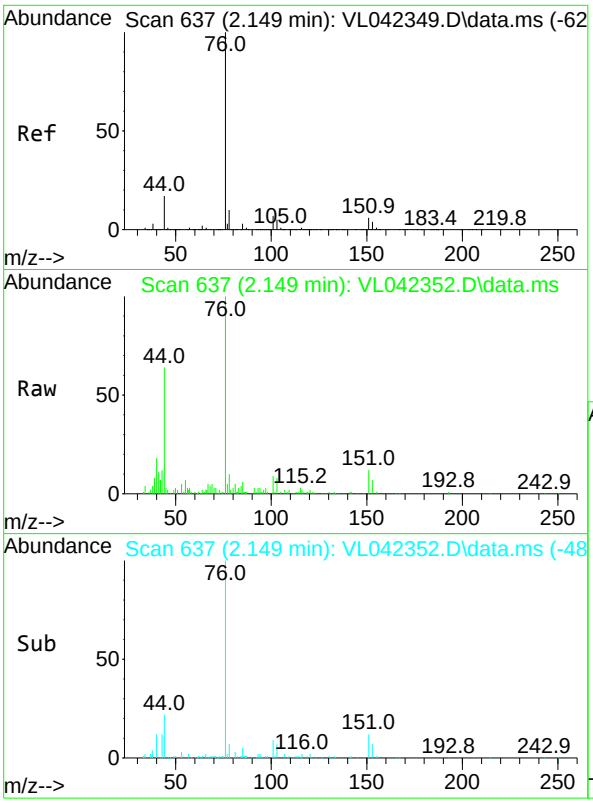



#26
Hexane
Concen: 0.581 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 57 Resp: 11448

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 103.5 | 77.9 | 116.9 |
| 43 | 240.0 | 208.4 | 312.6 |
| 56 | 52.5 | 43.1 | 64.7 |

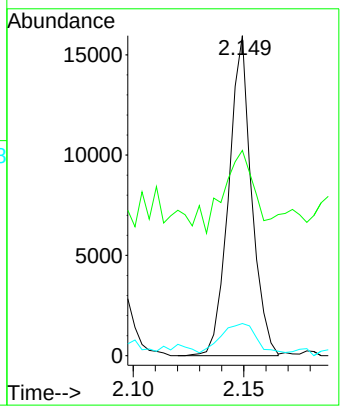





#27
Carbon Disulfide
Concen: 0.544 ppbv
RT: 2.149 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 76 Resp: 1147

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 123.7 | 15.5 | 23.3# |
| 78 | 18.8 | 9.3 | 13.9# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
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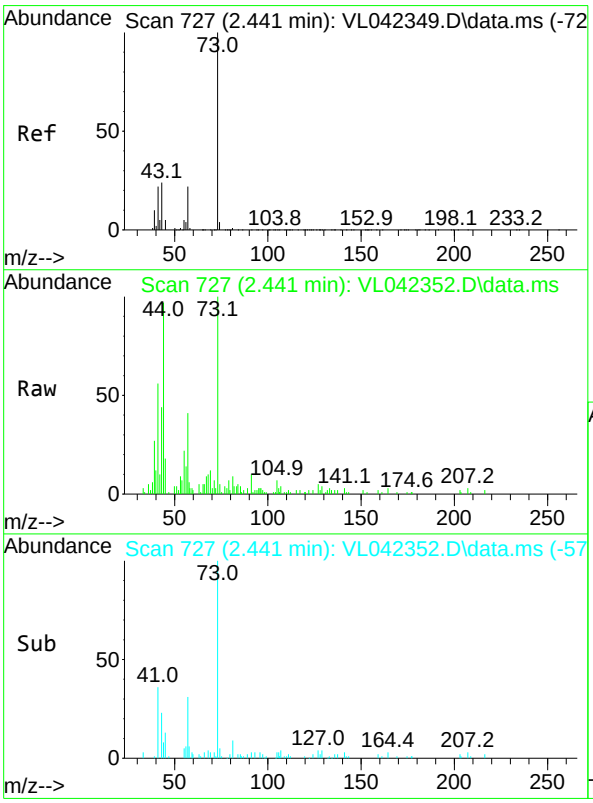
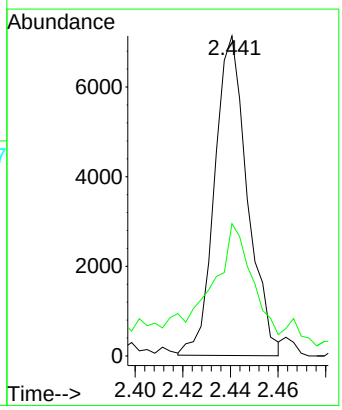
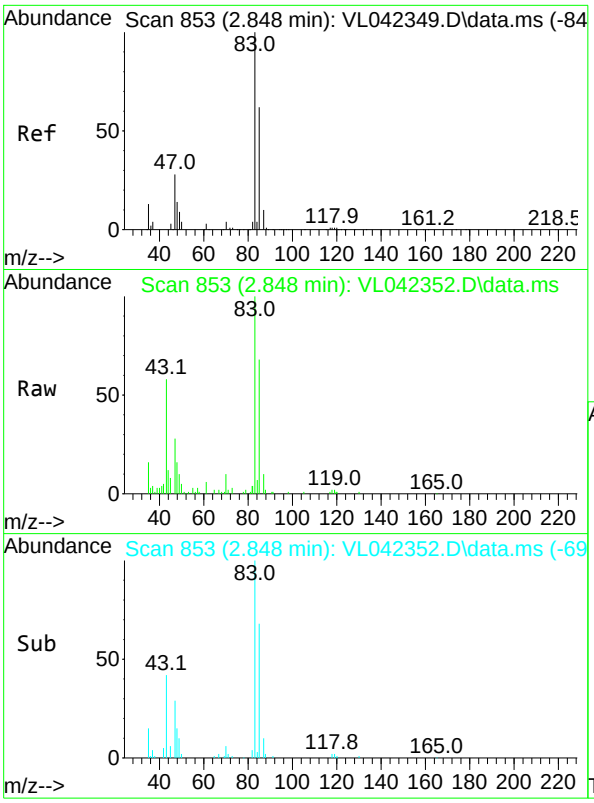



#28
Methyl tert-Butyl Ether
Concen: 0.530 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 73 Resp: 6833

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 61.8 | 21.3 | 31.9# |






#29
Chloroform
Concen: 0.532 ppbv
RT: 2.848 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 83 Resp: 1481

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 68.0 | 50.0 | 75.0 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
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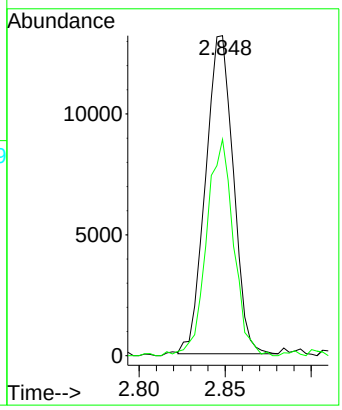
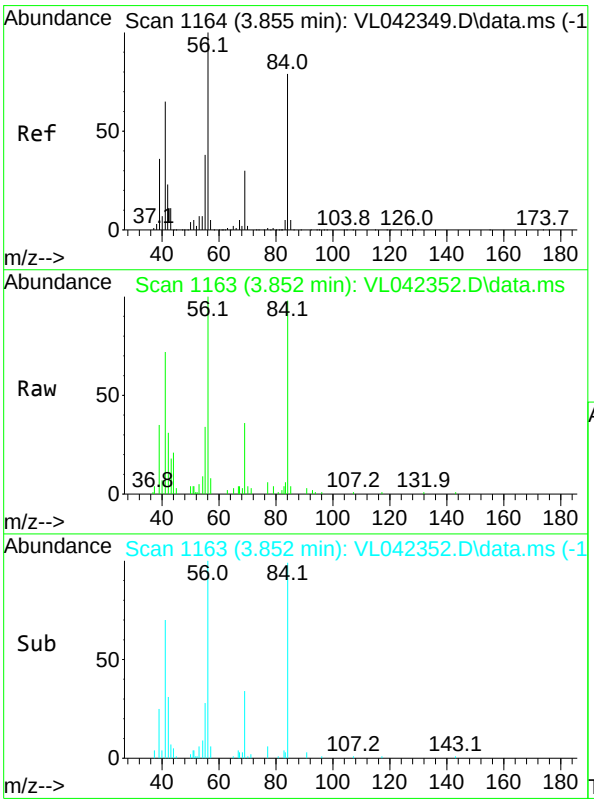
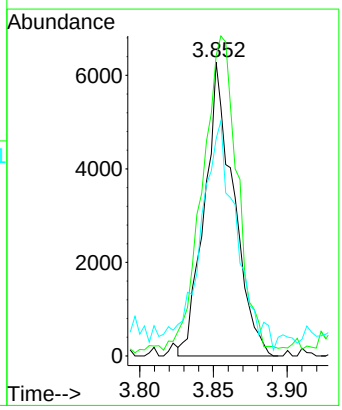


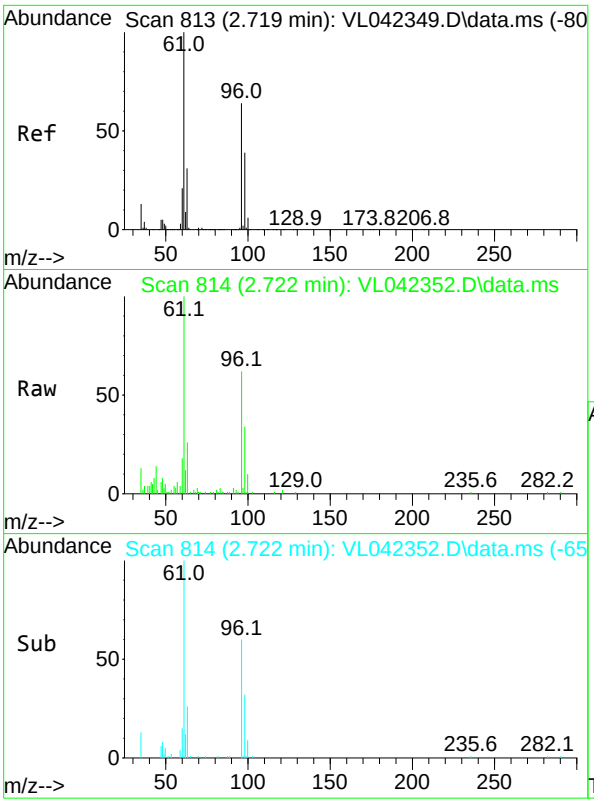




#30
Cyclohexane
Concen: 0.541 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 84 Resp: 8572

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 132.8 | 101.0 | 151.4 |
| 41 | 89.8 | 67.4 | 101.0 |

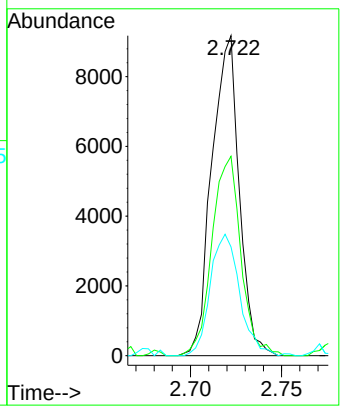





#31
cis-1,2-Dichloroethene
Concen: 0.511 ppbv
RT: 2.722 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 61 Resp: 957

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 62.3 | 50.8 | 76.2 |
| 98 | 34.0 | 30.9 | 46.3 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/18/2025
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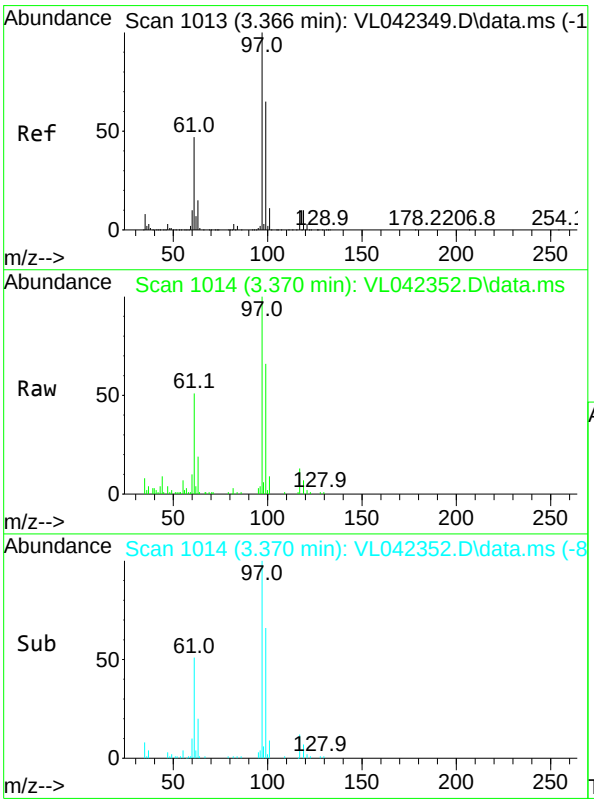
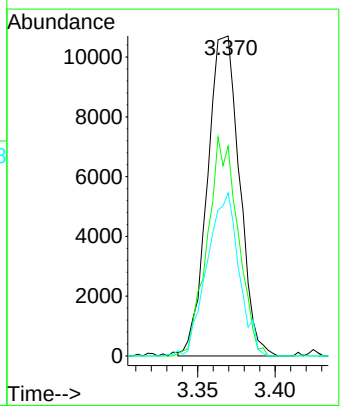
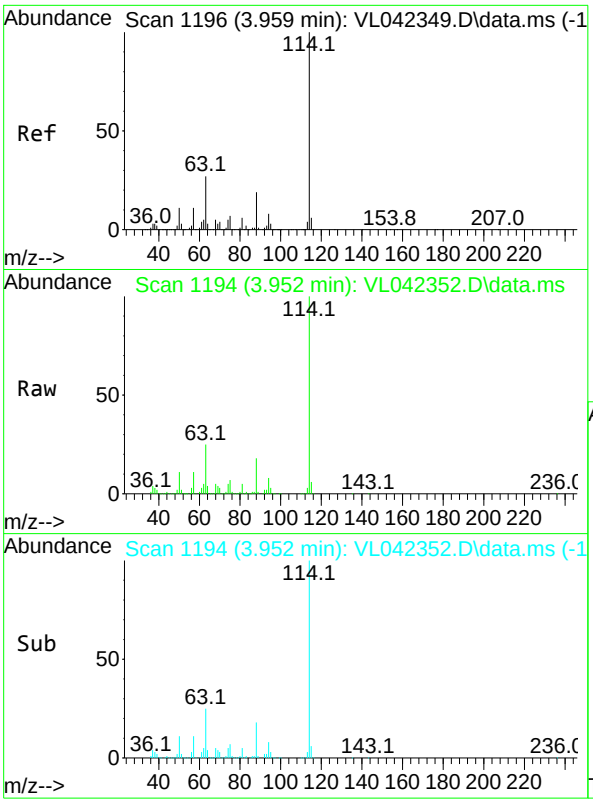



#32
1,1,1-Trichloroethane
Concen: 0.516 ppbv
RT: 3.370 min Scan# 1014
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 97 Resp: 15413

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 65.6 | 51.0 | 76.4 |
| 61 | 50.8 | 38.8 | 58.2 |

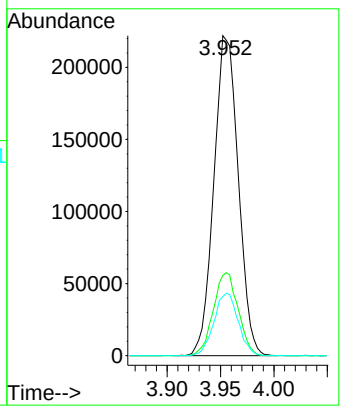





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1
Delta R.T. -0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:114 Resp: 35313

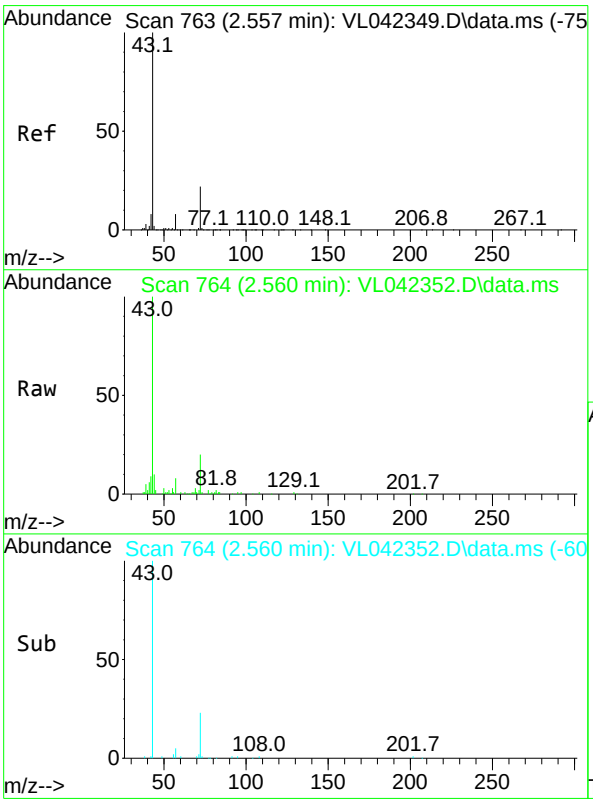
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 26.3 | 21.8 | 32.6 |
| 88 | 19.4 | 15.5 | 23.3 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
**APPROVED**

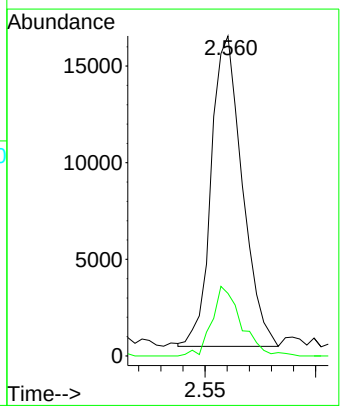
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

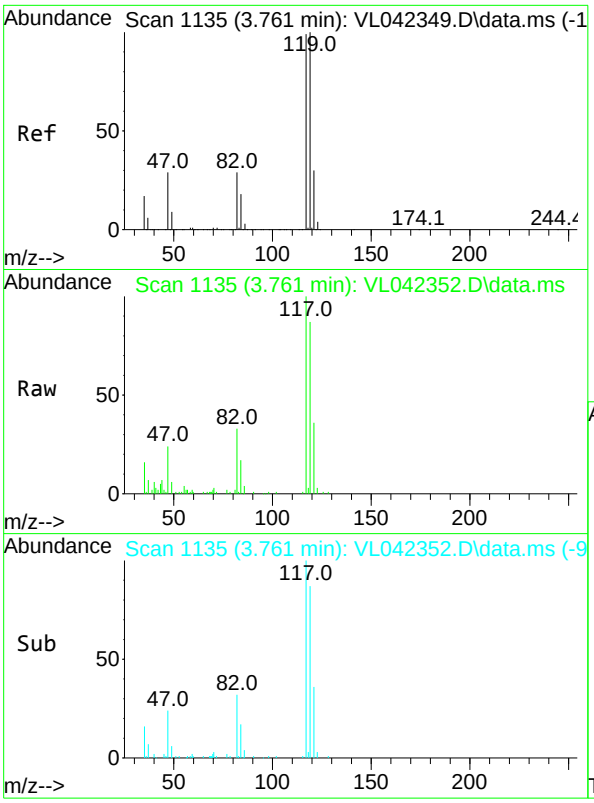



#34
2-Butanone
Concen: 0.560 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 43 Resp: 15640

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 21.3 | 18.2 | 27.2 |

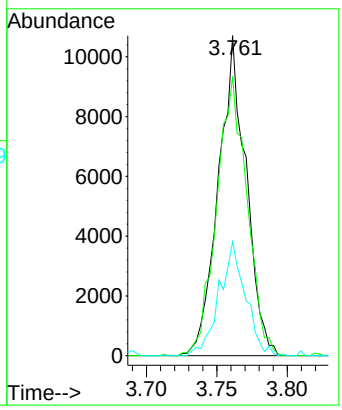





#35
Carbon Tetrachloride
Concen: 0.459 ppbv
RT: 3.761 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:117 Resp: 1468

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 87.2 | 80.5 | 120.7 |
| 121 | 35.6 | 24.2 | 36.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
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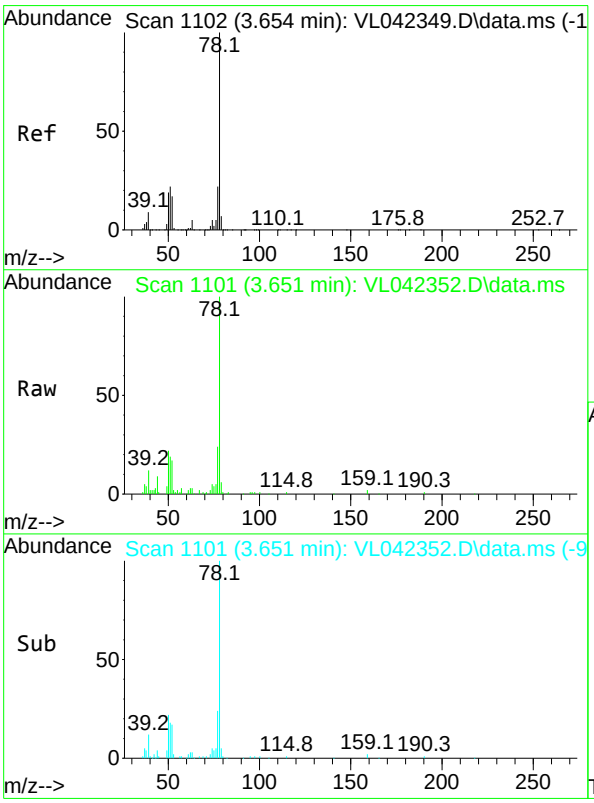
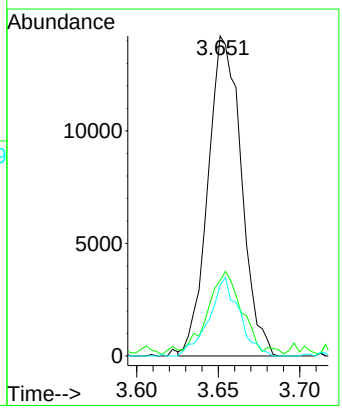
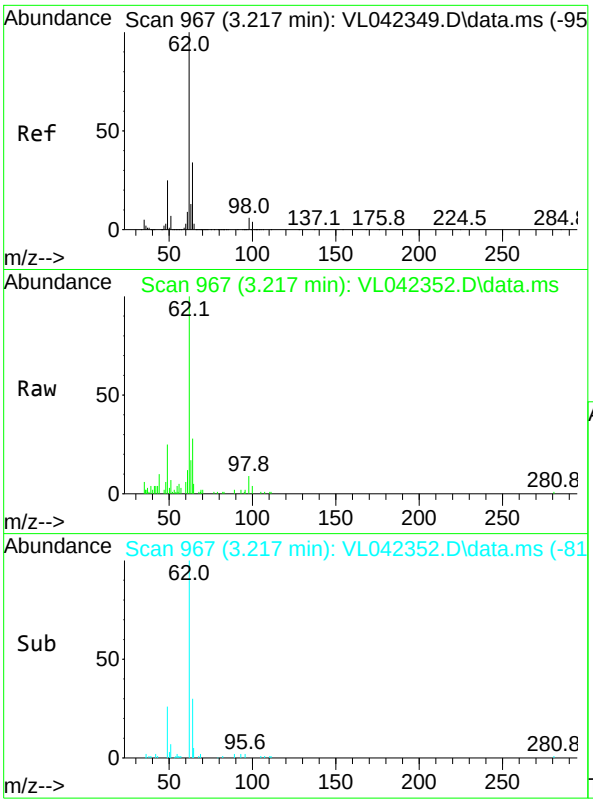



#36
Benzene
Concen: 0.531 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 78 Resp: 20233

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 21.7 | 17.4 | 26.0 |
| 50 | 22.1 | 15.5 | 23.3 |

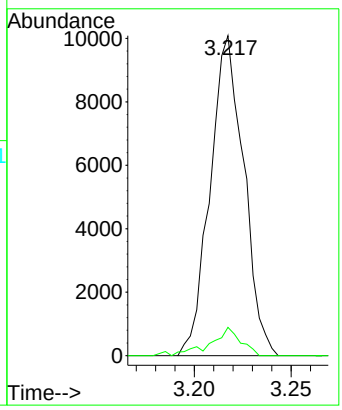





#37
1,2-Dichloroethane
Concen: 0.533 ppbv
RT: 3.217 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 62 Resp: 1219

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 8.1 | 5.1 | 7.7# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
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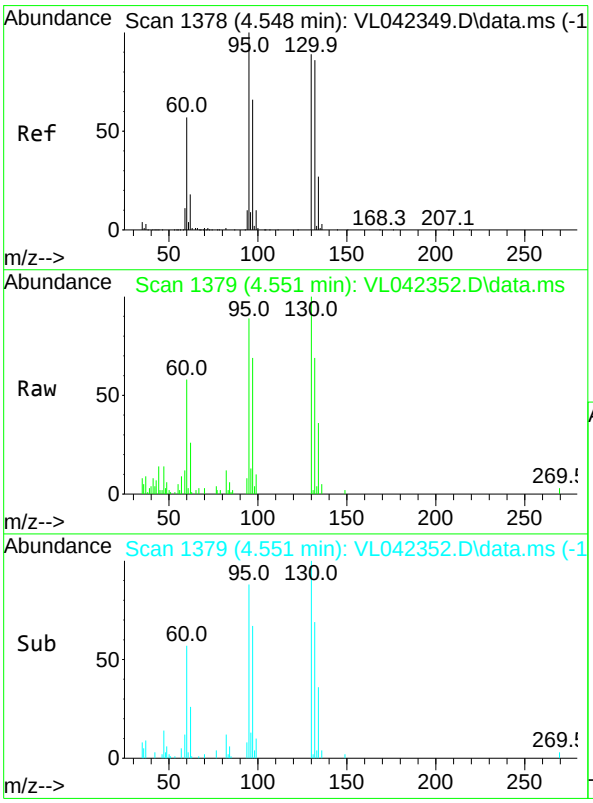
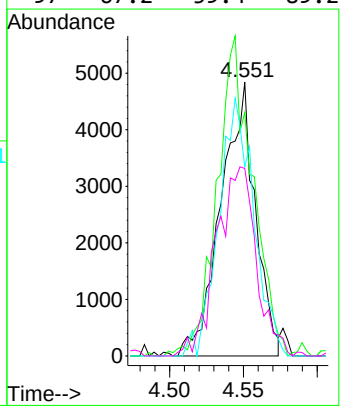
Supervised By :Mahesh Dadoda 04/18/2025

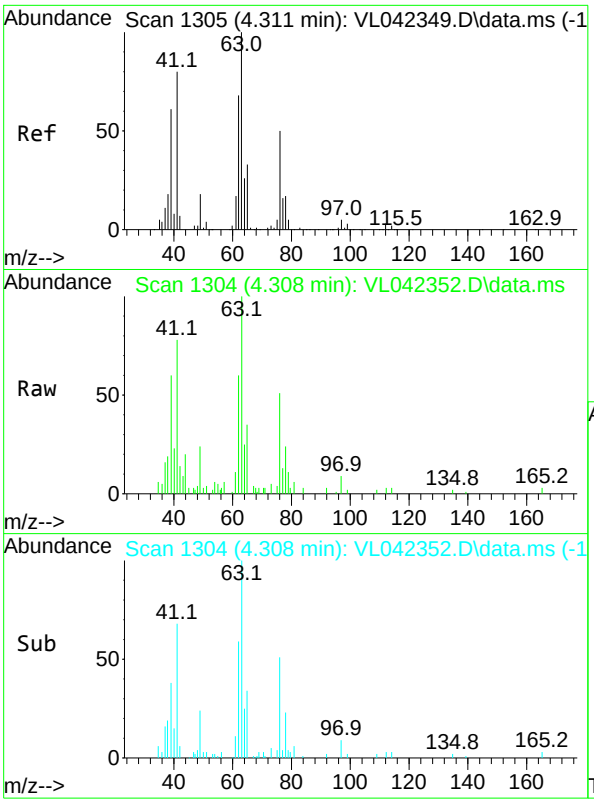



#38
Trichloroethene
Concen: 0.468 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:130 Resp: 7819

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 86.2 | 89.8 | 134.6# |
| 132 | 69.1 | 77.7 | 116.5# |
| 97 | 67.2 | 59.4 | 89.2 |

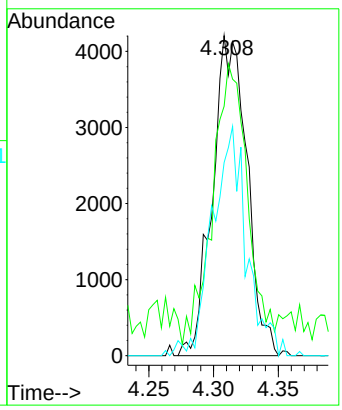





#39
1,2-Dichloropropane
Concen: 0.548 ppbv m
RT: 4.308 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 63 Resp: 779

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 78.0 | 64.2 | 96.2 |
| 62 | 60.4 | 54.3 | 81.5 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
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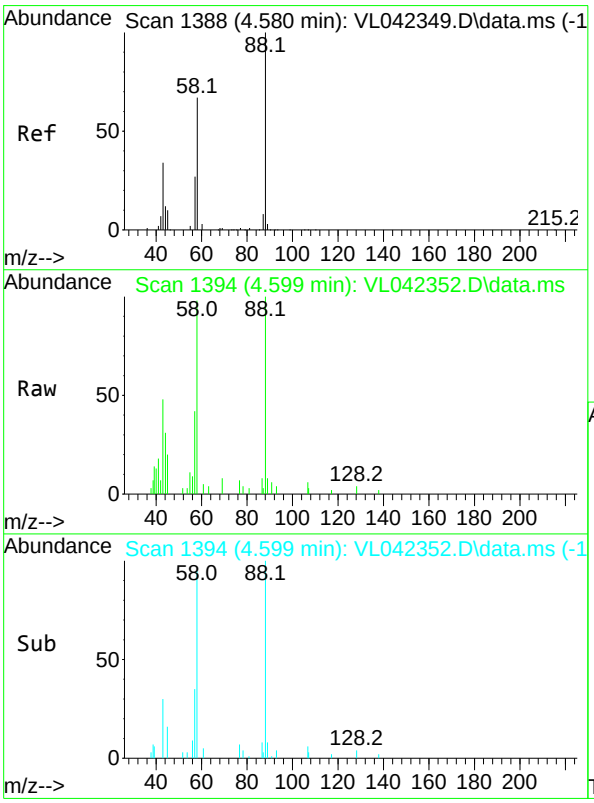
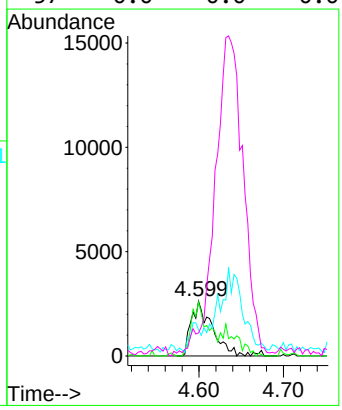
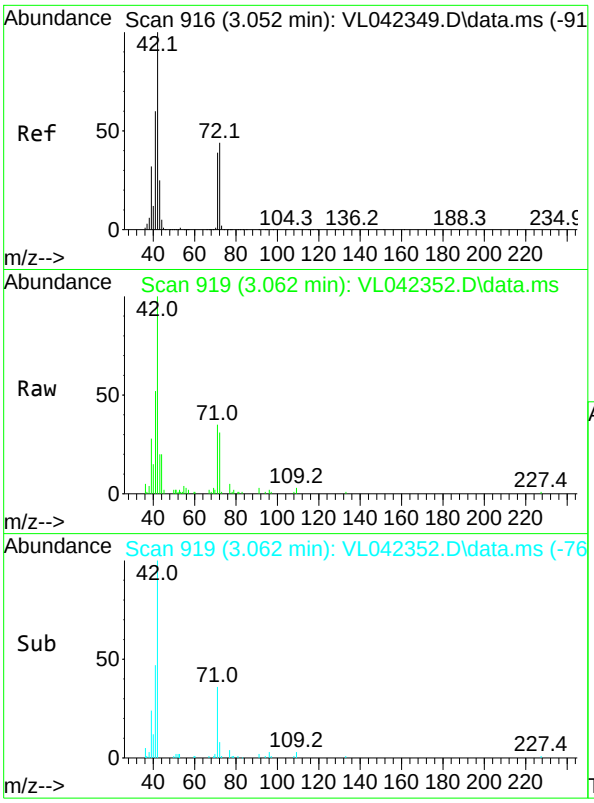



#40
1,4-Dioxane
Concen: 0.603 ppbv m
RT: 4.599 min Scan# 1394
Delta R.T. 0.019 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 88 Resp: 4637

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 118.1 | 61.4 | 92.0# |
| 43 | 0.0 | 23.2 | 34.8# |
| 57 | 0.0 | 0.0 | 0.0 |

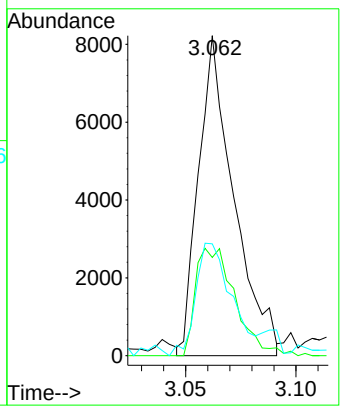





#41
Tetrahydrofuran
Concen: 0.567 ppbv m
RT: 3.062 min Scan# 91
Delta R.T. 0.010 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 42 Resp: 9144

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 37.7 | 32.3 | 48.5 |
| 71 | 43.1 | 31.4 | 47.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
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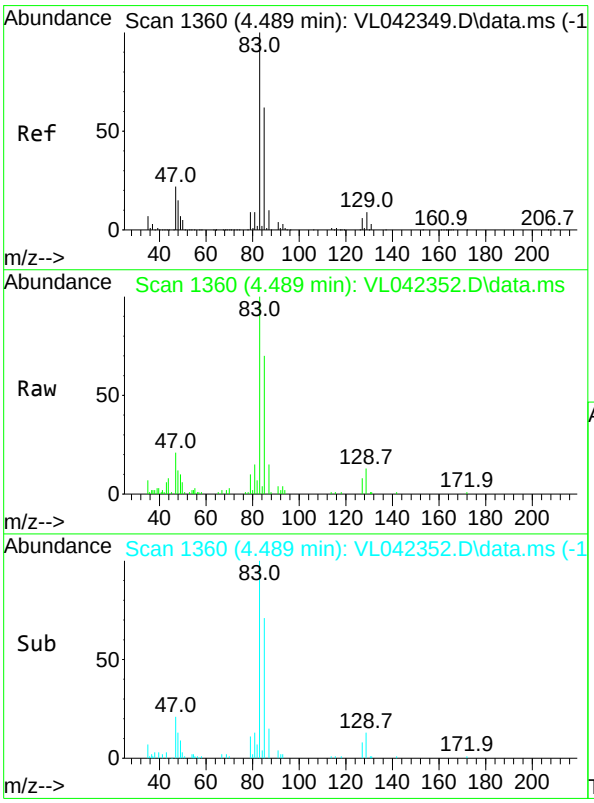
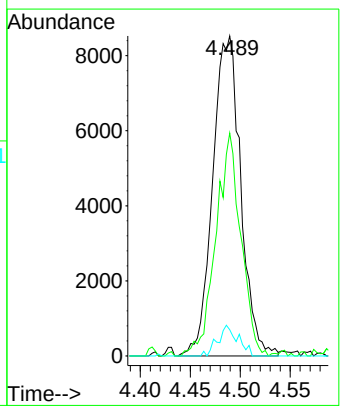
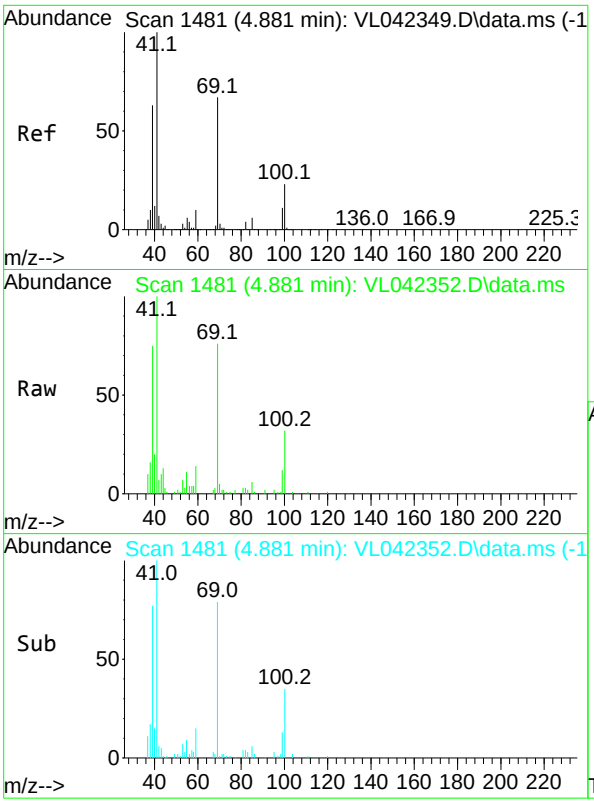



#42
Bromodichloromethane
Concen: 0.523 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 83 Resp: 16642

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 69.6 | 49.7 | 74.5 |
| 127 | 8.2 | 5.1 | 7.7# |

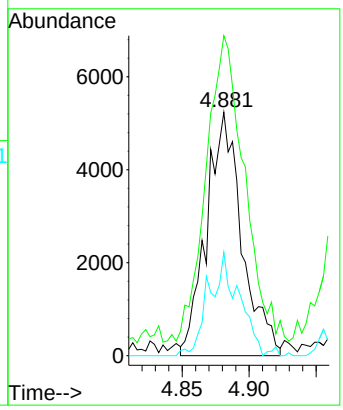





#43
Methyl Methacrylate
Concen: 0.563 ppbv m
RT: 4.881 min Scan# 14
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 69 Resp: 962(

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 0.0 | 118.6 | 177.8# |
| 100 | 0.0 | 28.2 | 42.2# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
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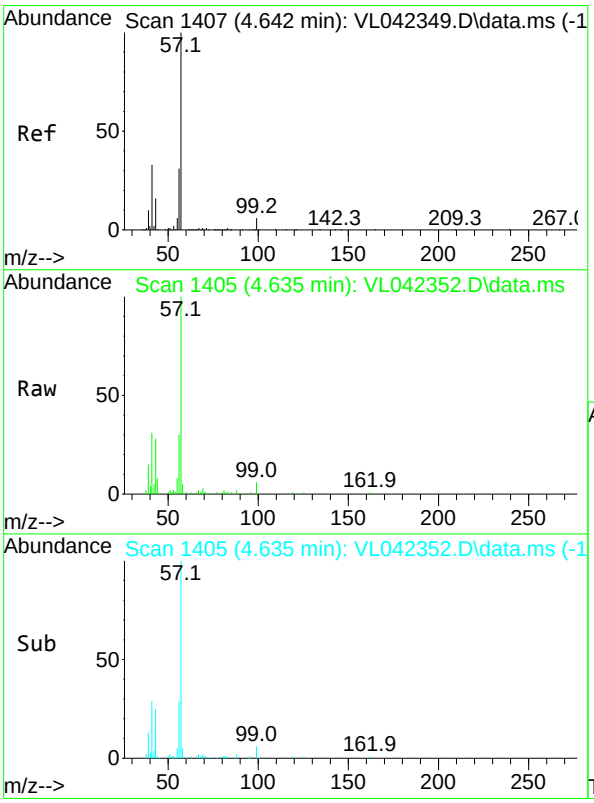
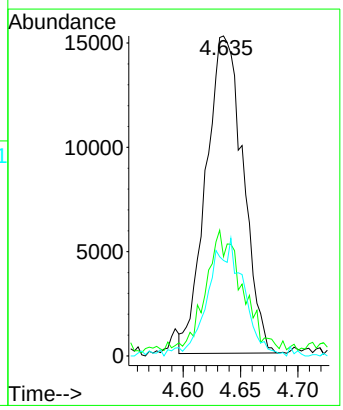
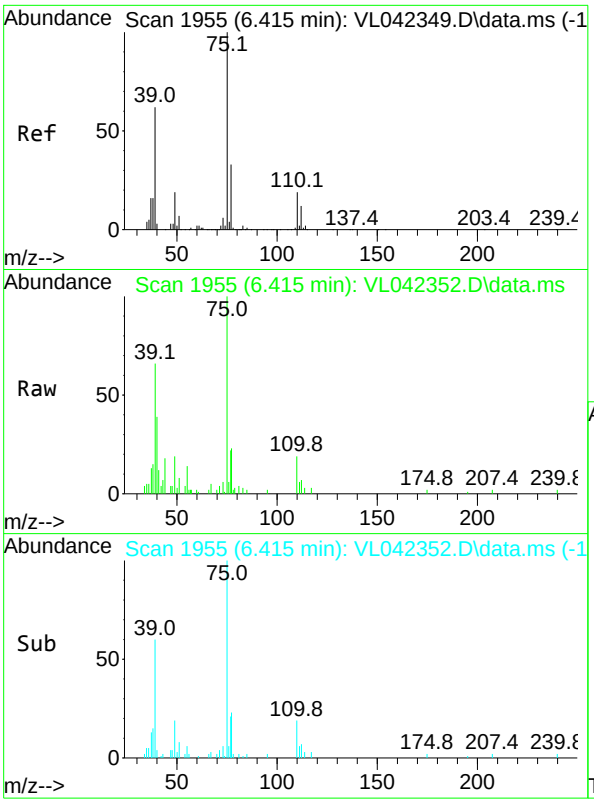



#44
2,2,4-Trimethylpentane
Concen: 0.519 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. -0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 57 Resp: 34170

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 39.1 | 27.2 | 40.8 |
| 56 | 37.1 | 25.7 | 38.5 |

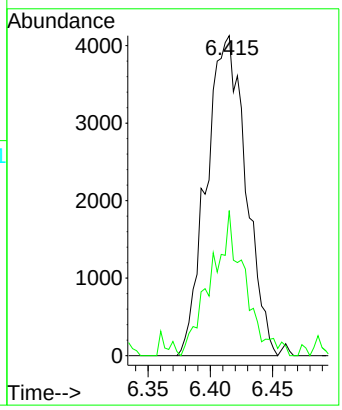





#45
t-1,3-Dichloropropene
Concen: 0.517 ppbv m
RT: 6.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 75 Resp: 907

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 23.1 | 27.0 | 40.6# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
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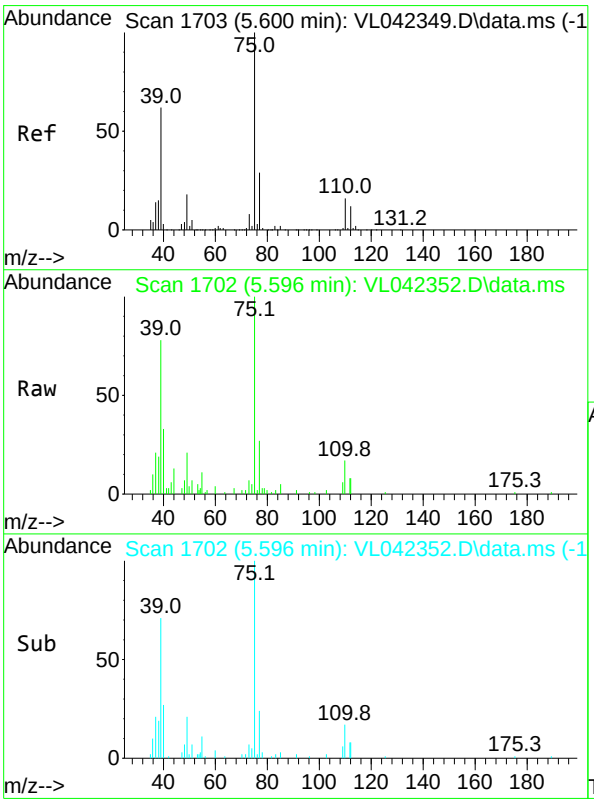
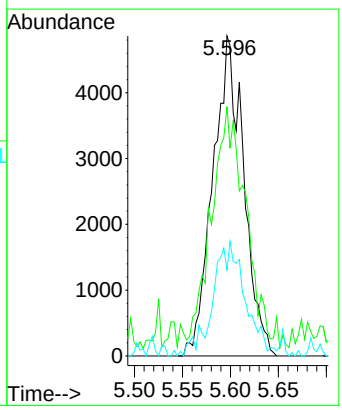
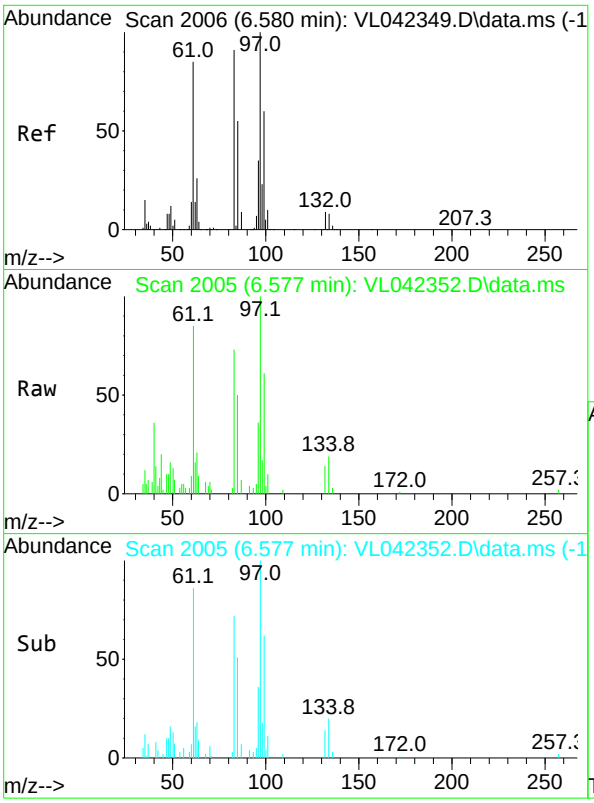



#46
cis-1,3-Dichloropropene
Concen: 0.505 ppbv m
RT: 5.596 min Scan# 1702
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 75 Resp: 10827

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 39 | 77.9 | 50.0 | 75.0# |
| 77 | 26.9 | 23.0 | 34.6 |

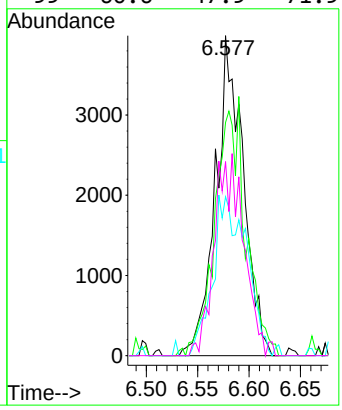





#47
1,1,2-Trichloroethane
Concen: 0.516 ppbv m
RT: 6.577 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 97 Resp: 746

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 72.9 | 72.8 | 109.2 |
| 85 | 49.6 | 44.2 | 66.4 |
| 99 | 60.6 | 47.9 | 71.9 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
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Reviewed By :Semsettin Yesilyurt 04/18/2025
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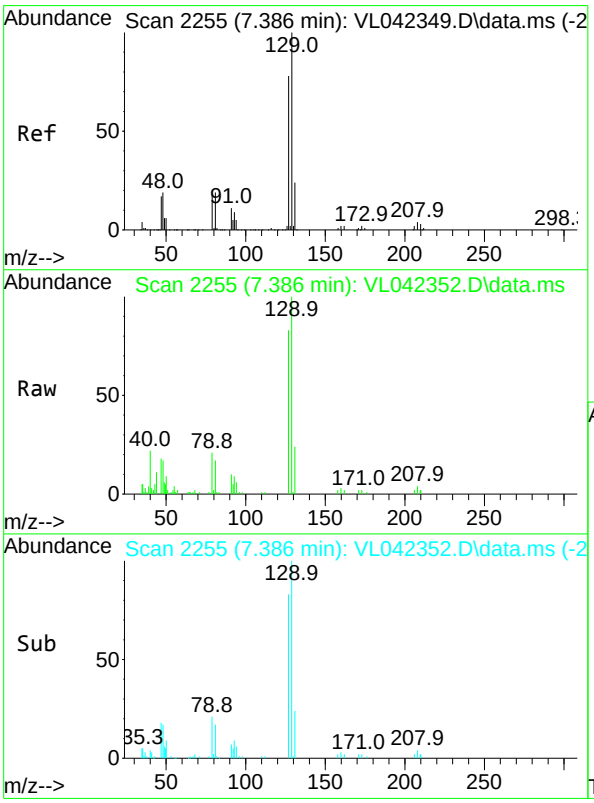
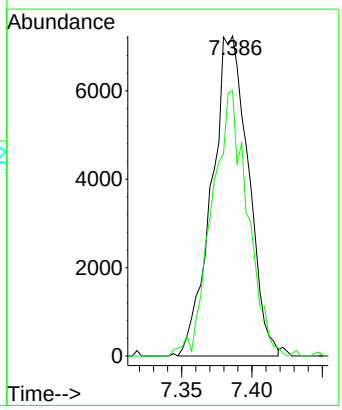
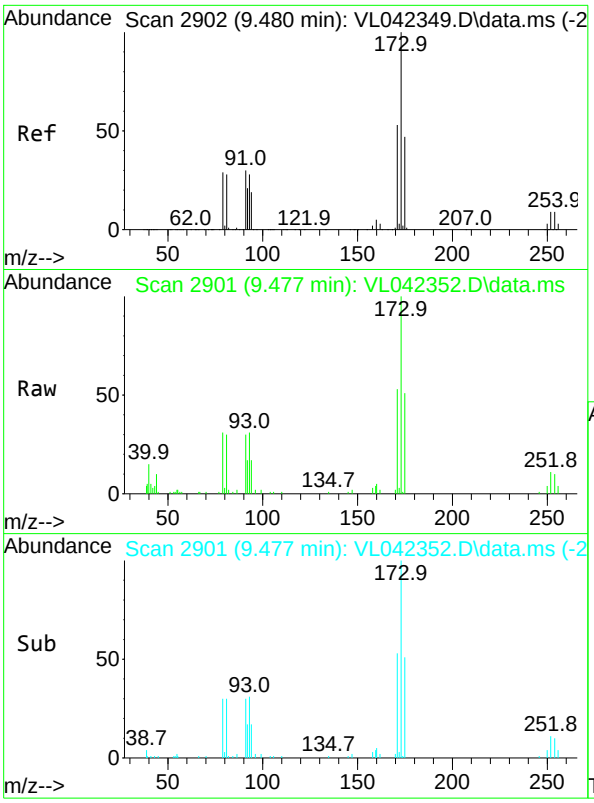



#48
Dibromochloromethane
Concen: 0.514 ppbv
RT: 7.386 min Scan# 2255
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:129 Resp: 13122

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 80.9 | 39.1 | 117.3 |

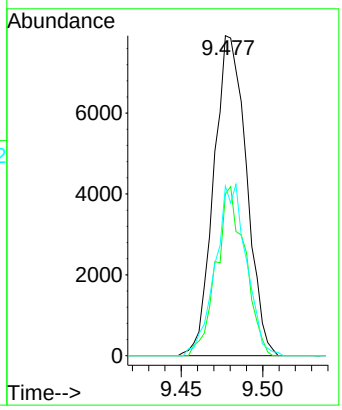





#49
Bromoform
Concen: 0.492 ppbv
RT: 9.477 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:173 Resp: 1098

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 46.8 | 38.2 | 57.2 |
| 171 | 51.2 | 40.9 | 61.3 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
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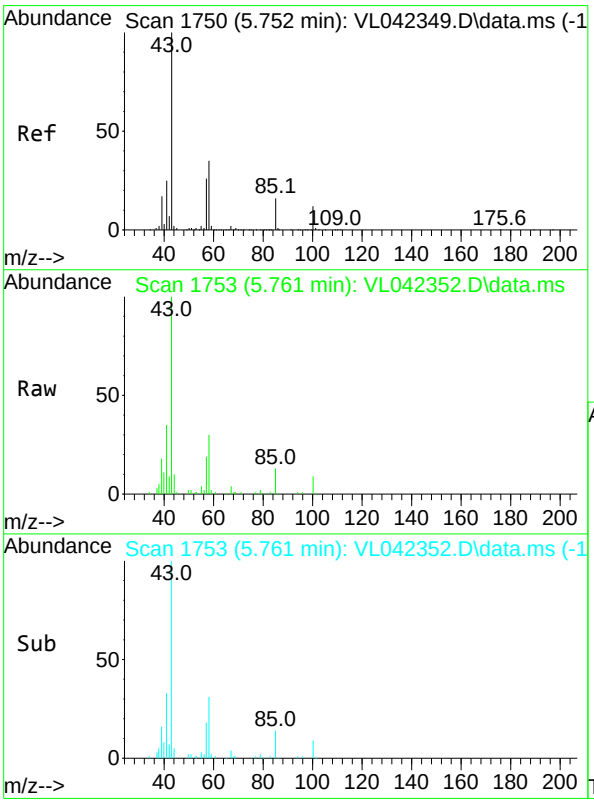
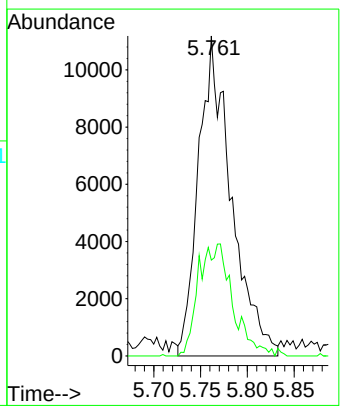
Supervised By :Mahesh Dadoda 04/18/2025

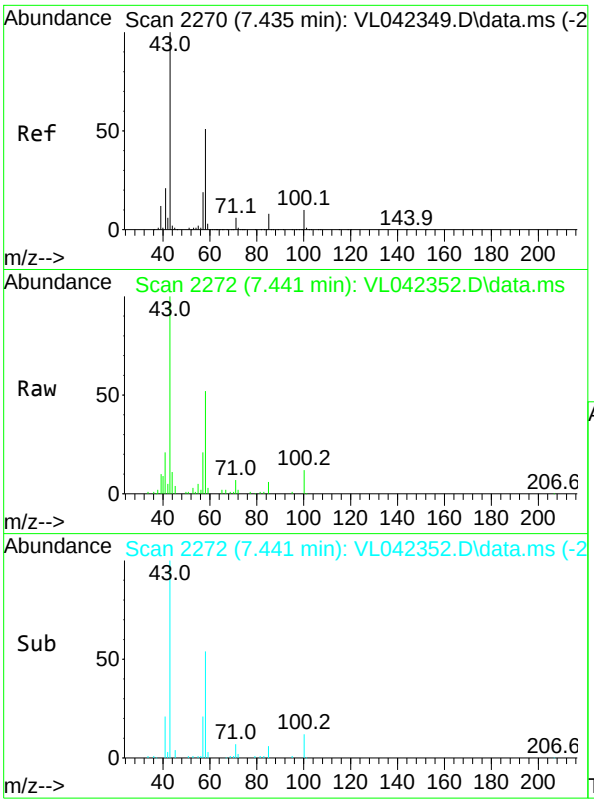



#50
4-Methyl-2-Pentanone
Concen: 0.585 ppbv m
RT: 5.761 min Scan# 1753
Delta R.T. 0.010 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 43 Resp: 27206

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 0.0 | 28.6 | 43.0# |

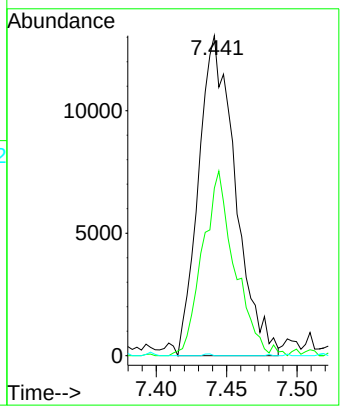





#51
2-Hexanone
Concen: 0.564 ppbv
RT: 7.441 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 43 Resp: 2368

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 51.7 | 40.2 | 60.4 |
| 98 | 0.1 | 0.1 | 0.1 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
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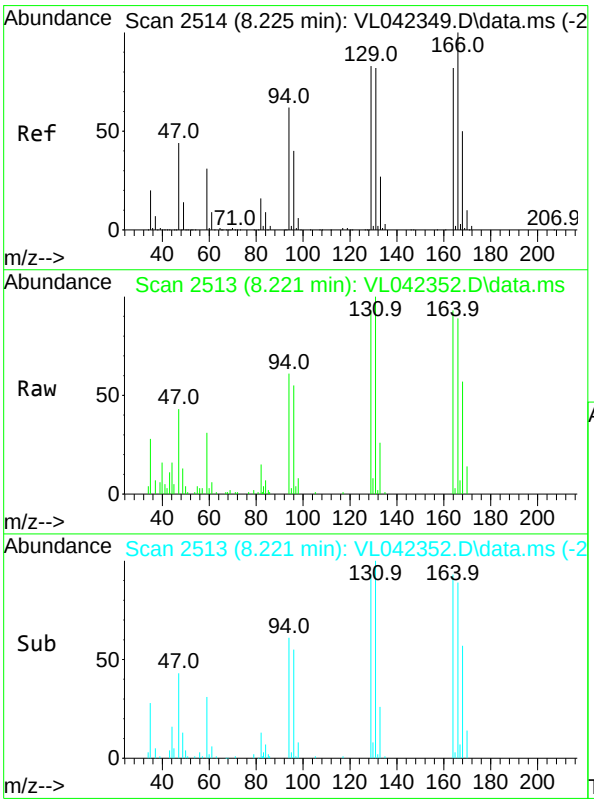
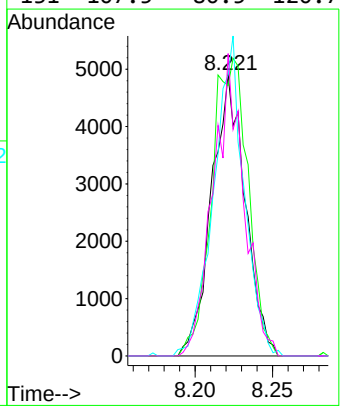
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

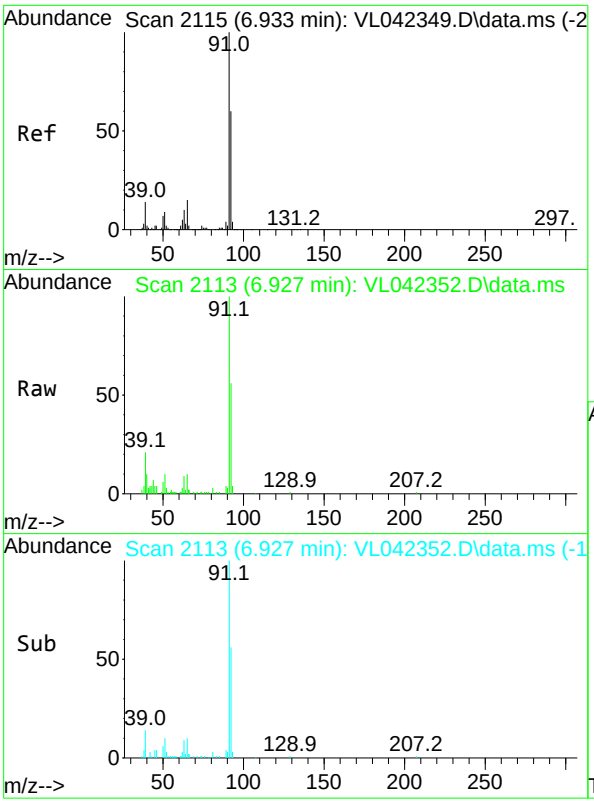



#52
Tetrachloroethene
Concen: 0.503 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:164 Resp: 7412

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 96.1 | 98.2 | 147.2# |
| 129 | 97.8 | 81.8 | 122.8 |
| 131 | 107.5 | 80.5 | 120.7 |

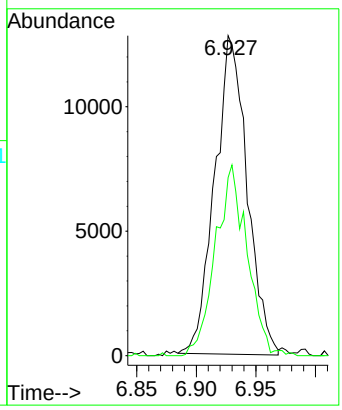





#53
Toluene
Concen: 0.529 ppbv
RT: 6.927 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 91 Resp: 2420

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 58.4 | 48.2 | 72.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
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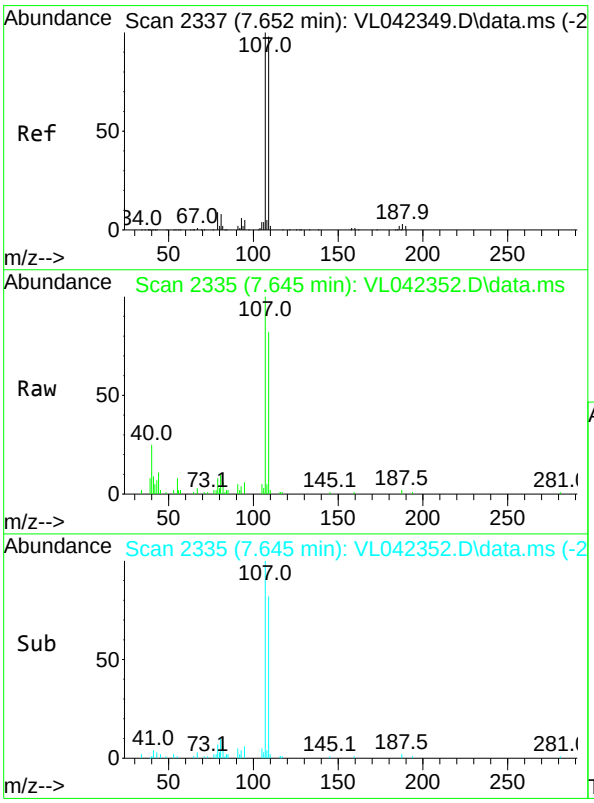
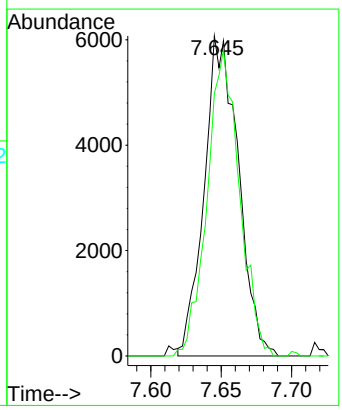
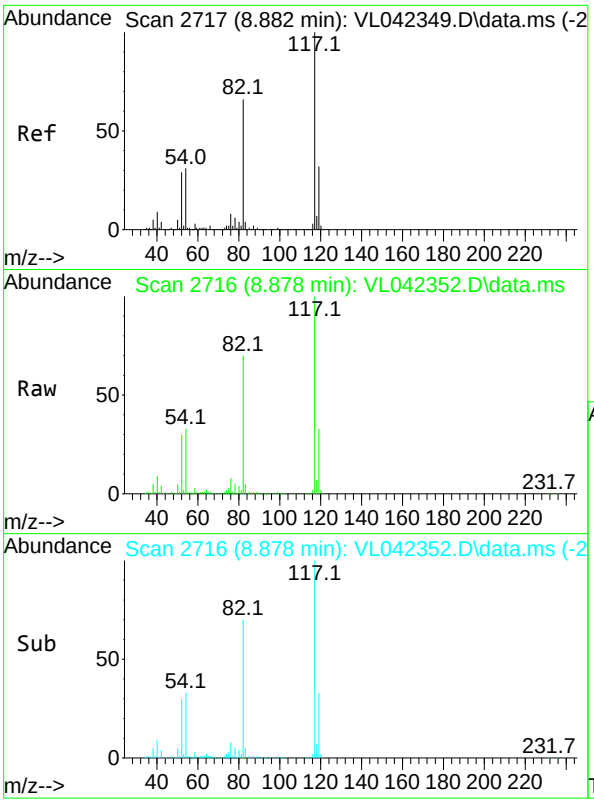



#54
1,2-Dibromoethane
Concen: 0.499 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:107 Resp: 10282

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 82.1 | 78.2 | 117.4 |

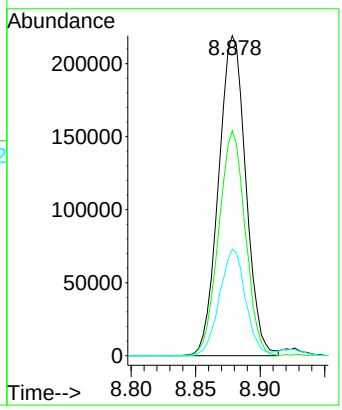





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:117 Resp: 32164

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 69.0 | 57.8 | 86.6 |
| 119 | 33.8 | 25.2 | 37.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
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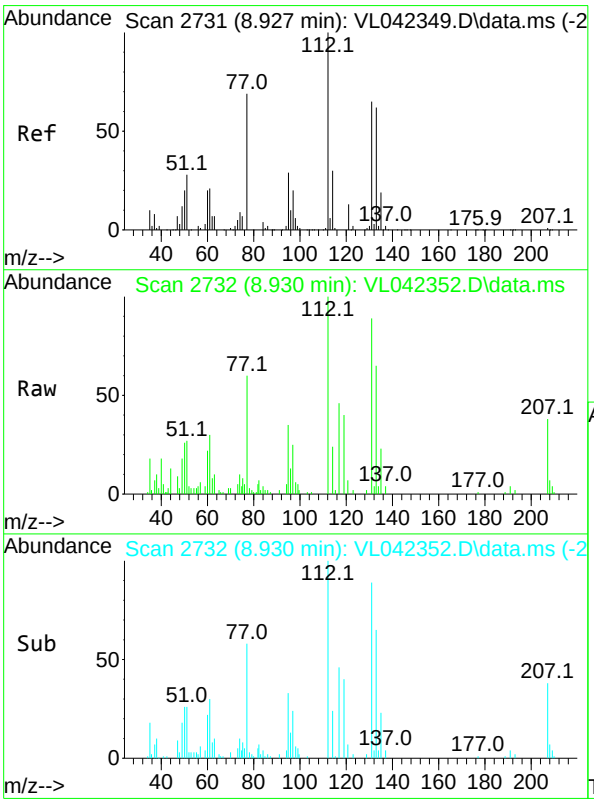
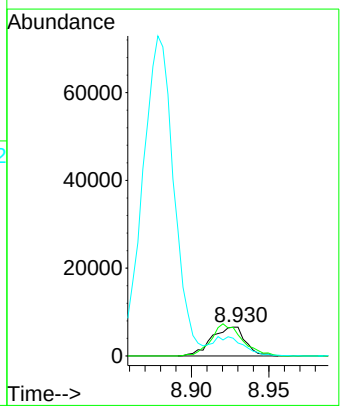
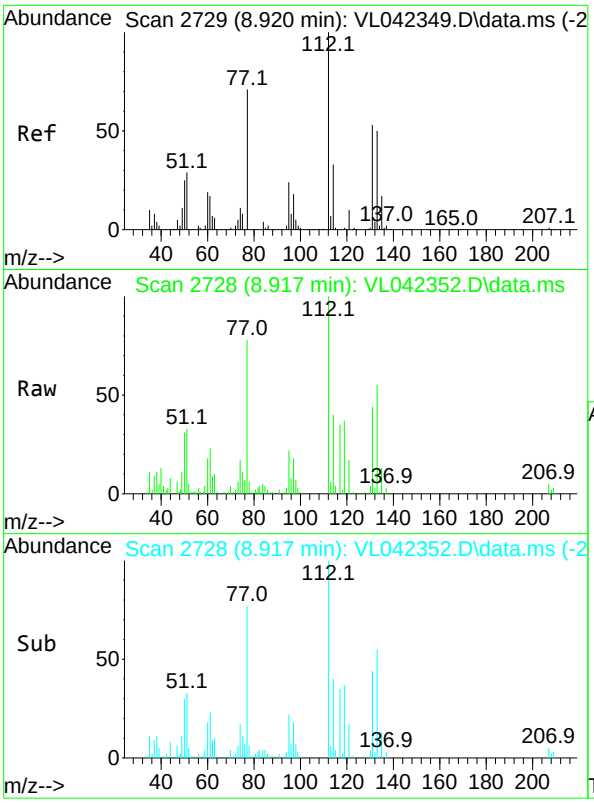



#56
1,1,1,2-Tetrachloroethane
Concen: 0.513 ppbv
RT: 8.930 min Scan# 2732
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:131 Resp: 9987

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 102.0 | 78.3 | 117.5 |
| 119 | 1087.9 | 48.7 | 73.1# |

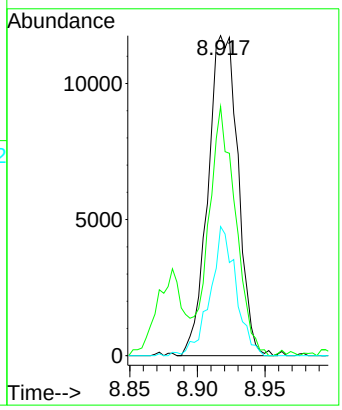





#57
Chlorobenzene
Concen: 0.543 ppbv m
RT: 8.917 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:112 Resp: 1814

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 77.8 | 57.8 | 86.6 |
| 114 | 40.4 | 29.3 | 35.9 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
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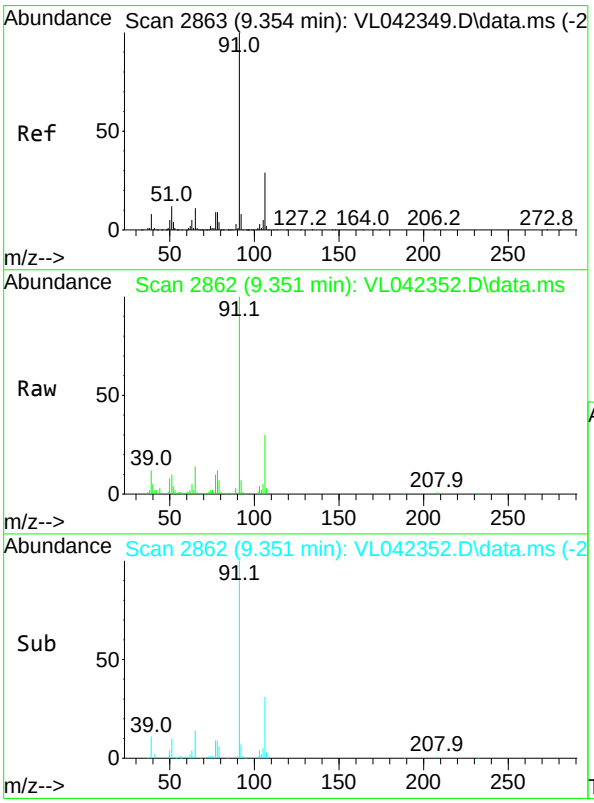
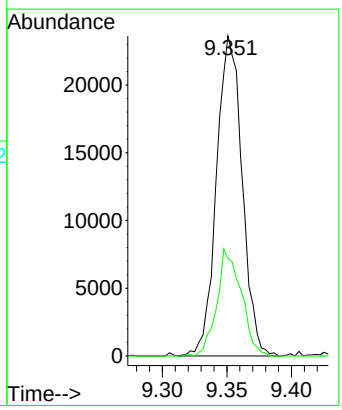
Supervised By :Mahesh Dadoda 04/18/2025

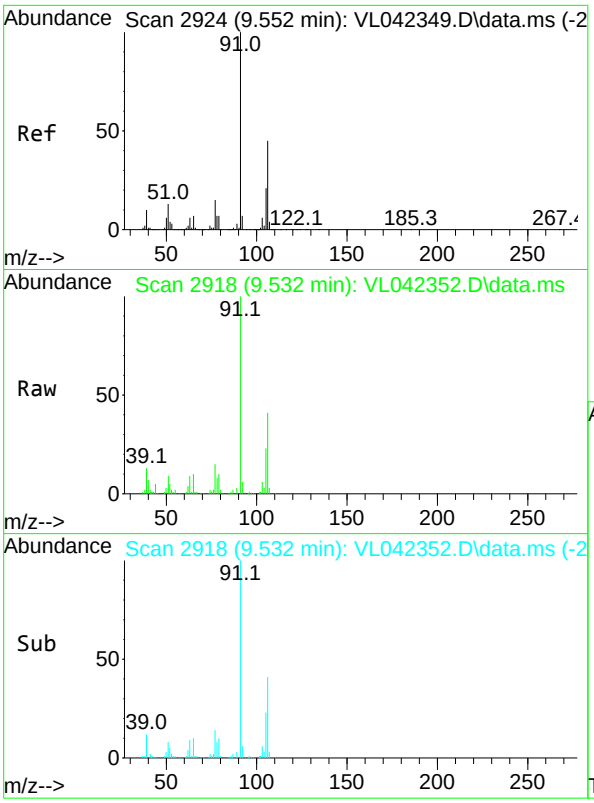



#58
Ethyl Benzene
Concen: 0.512 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 91 Resp: 32624

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.5 | 23.0 | 34.4 |

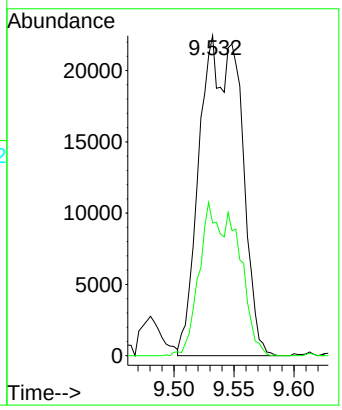





#59
m/p-Xylene
Concen: 1.053 ppbv m
RT: 9.532 min Scan# 2
Delta R.T. -0.019 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 91 Resp: 5419

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 0.0 | 35.4 | 53.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
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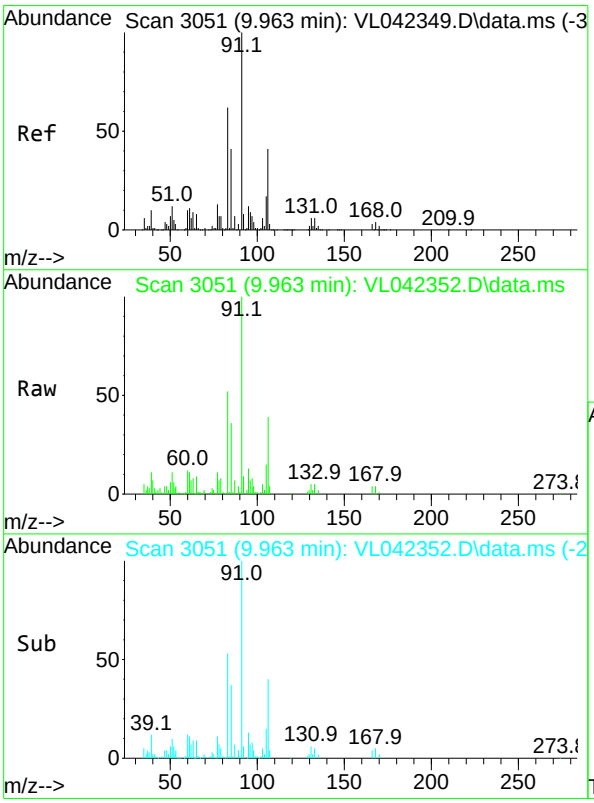
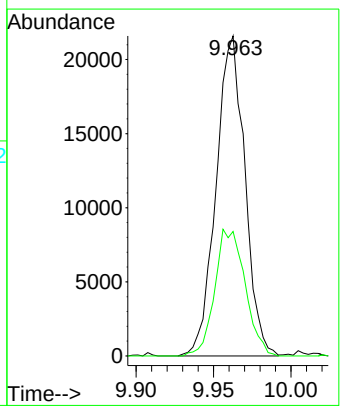
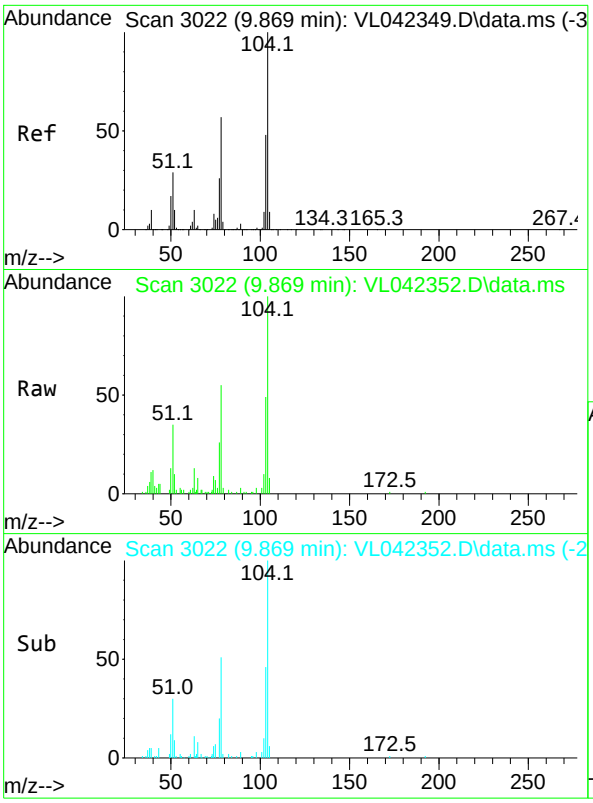



#60
o-Xylene
Concen: 0.541 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 91 Resp: 27983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 41.6 | 21.1 | 63.4 |

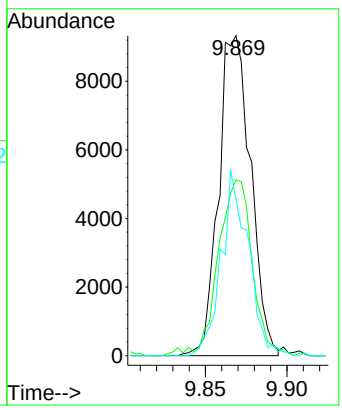





#61
Styrene
Concen: 0.516 ppbv
RT: 9.869 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:104 Resp: 1273

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 58.6 | 44.6 | 66.8 |
| 103 | 49.2 | 37.4 | 56.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
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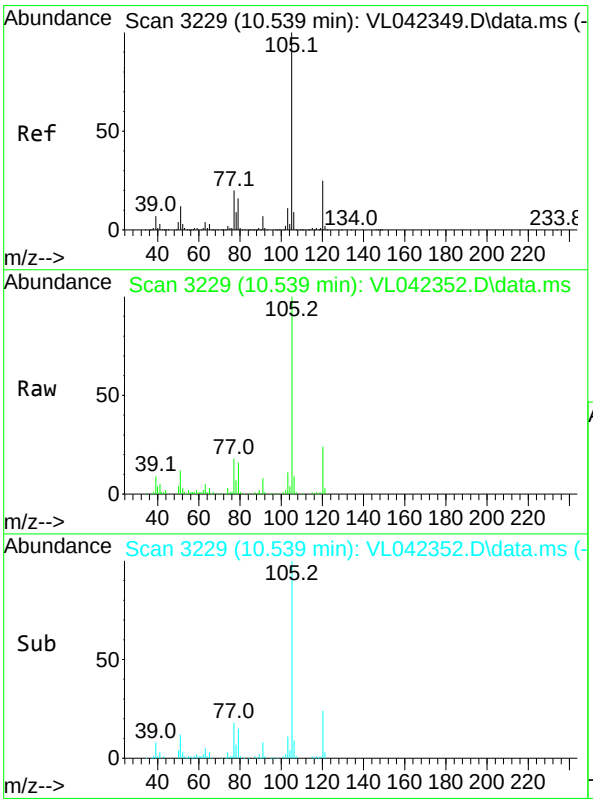
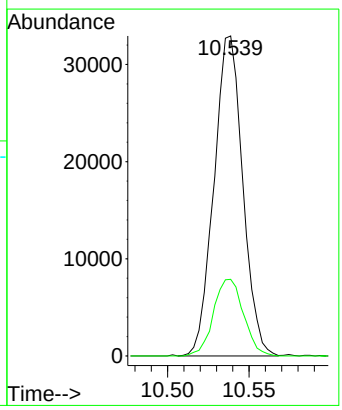
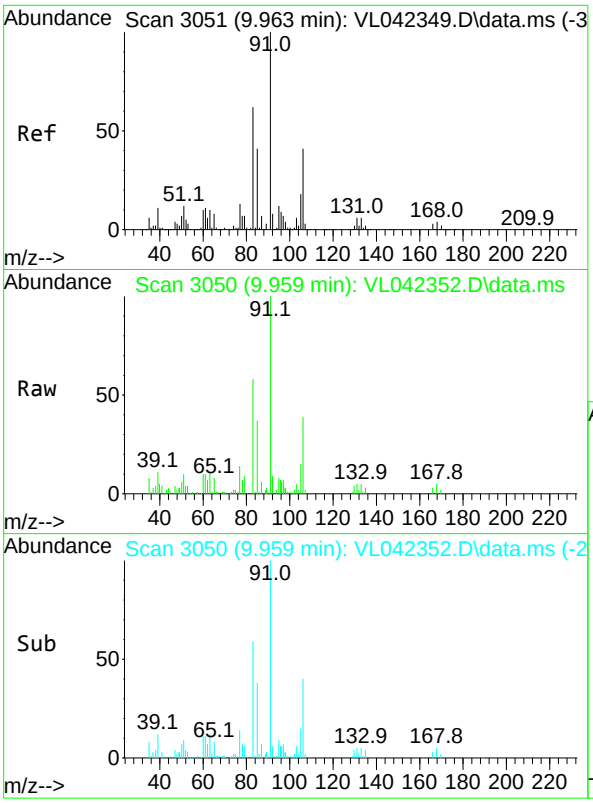



#62
Isopropylbenzene
Concen: 0.533 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:105 Resp: 40481

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 24.9 | 19.8 | 29.8 |

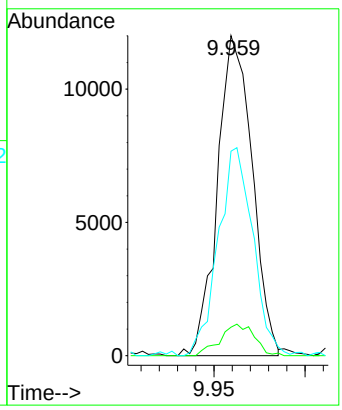





#63
1,1,2,2-Tetrachloroethane
Concen: 0.474 ppbv
RT: 9.959 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 83 Resp: 1592

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.8 | 4.5 | 13.7 |
| 85 | 65.6 | 32.4 | 97.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
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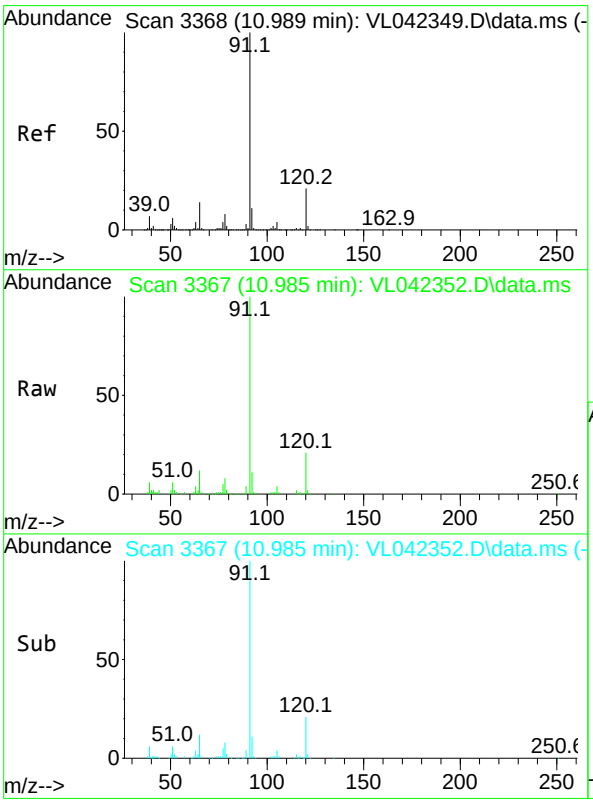
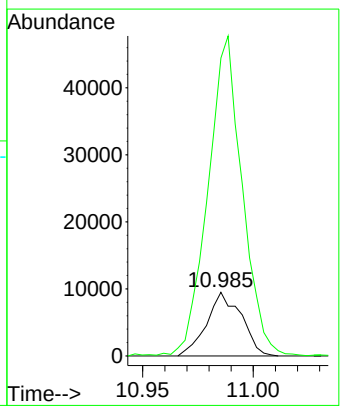
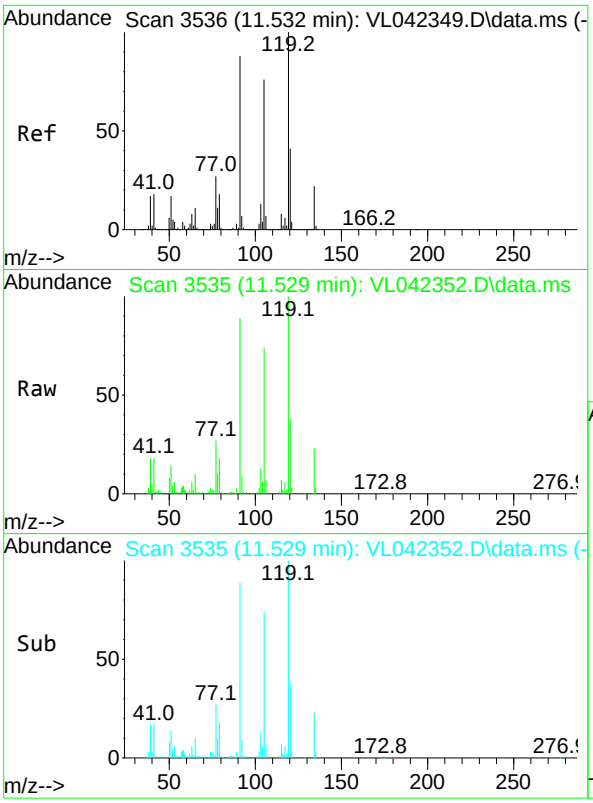



#64
n-propylbenzene
Concen: 0.544 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:120 Resp: 10369

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 499.6 | 392.4 | 588.6 |

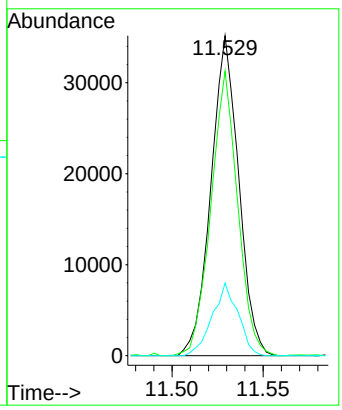





#65
tert-Butylbenzene
Concen: 0.535 ppbv
RT: 11.529 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:119 Resp: 3729

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 85.8 | 74.6 | 111.8 |
| 134 | 21.1 | 18.8 | 28.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
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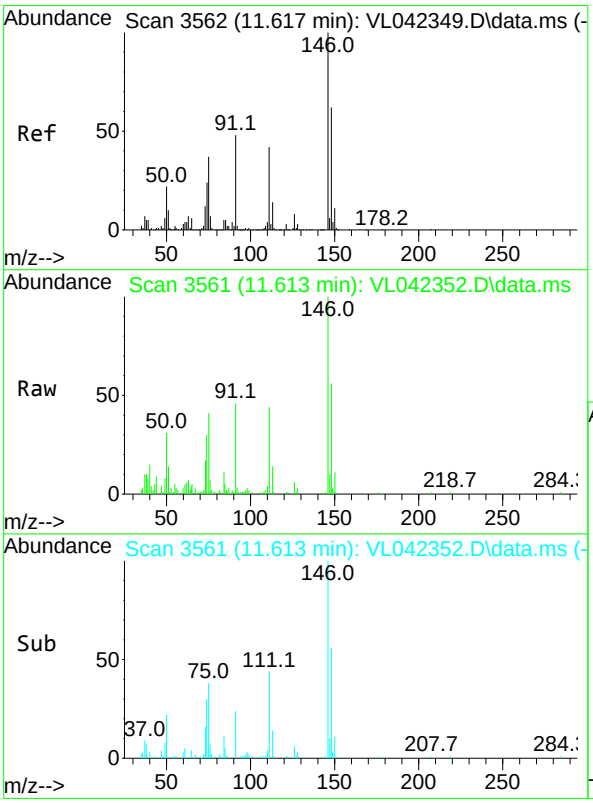
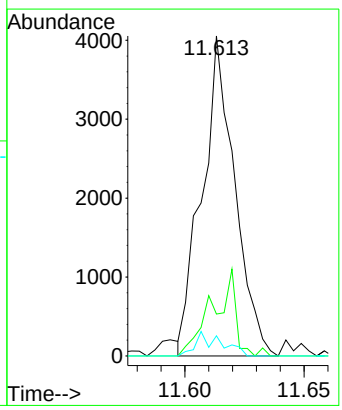
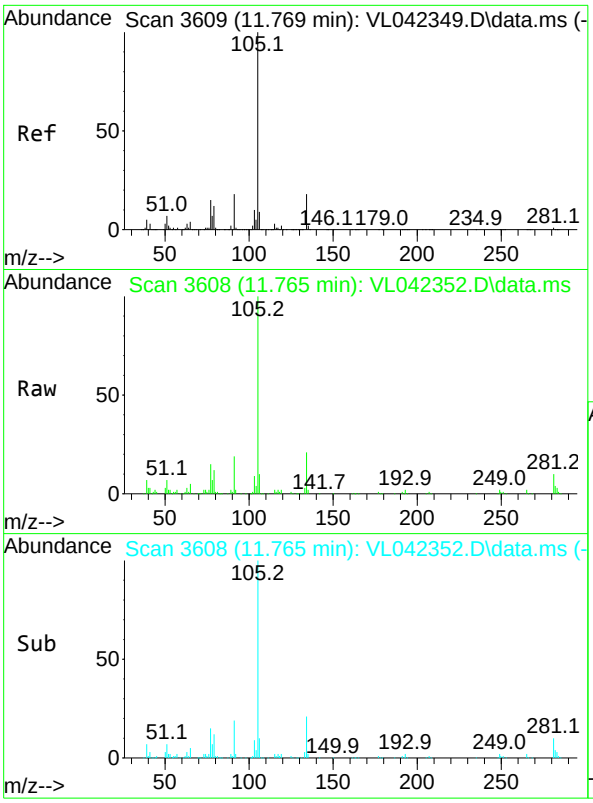



#66
Benzyl Chloride
Concen: 0.506 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 91 Resp: 3878

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 19.8 | 11.8 | 17.6# |
| 128 | 5.8 | 4.5 | 6.7 |

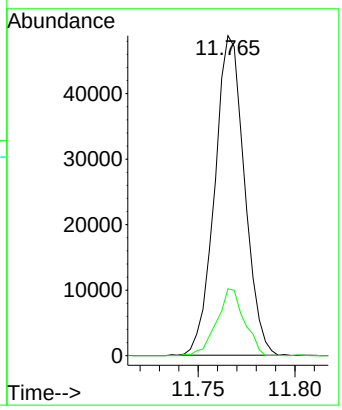





#67
sec-Butylbenzene
Concen: 0.537 ppbv
RT: 11.765 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:105 Resp: 5213

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.5 | 14.6 | 21.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
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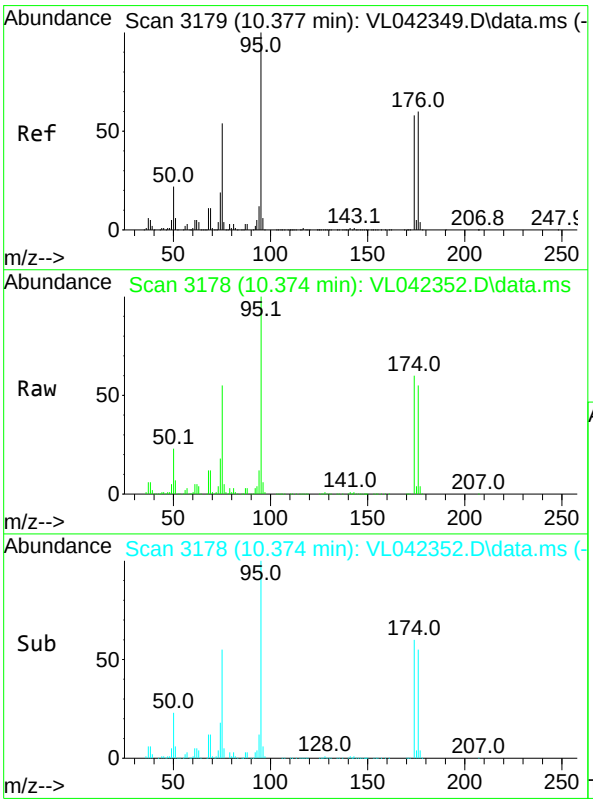
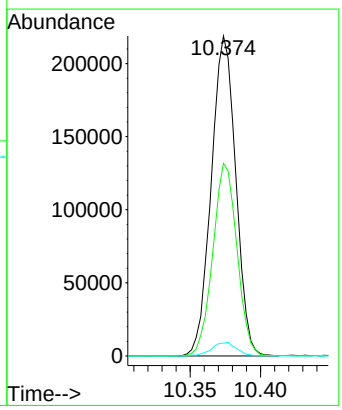
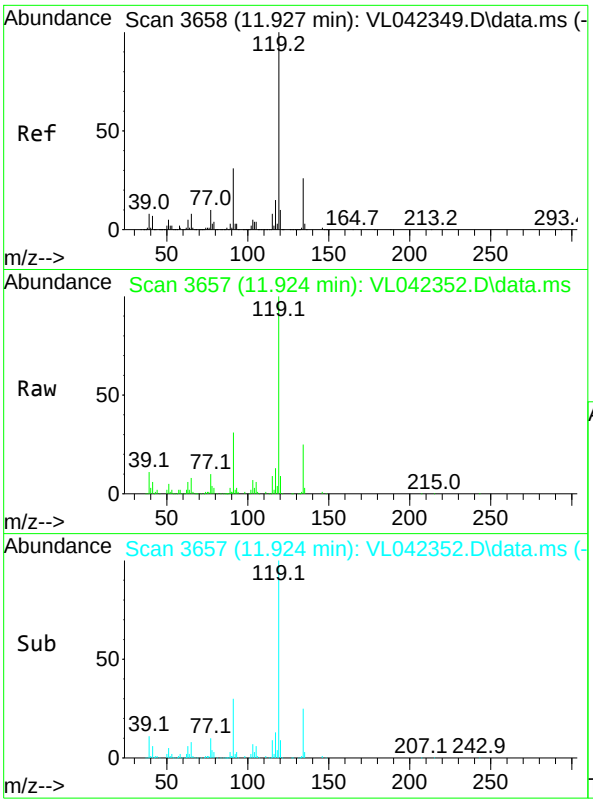



#68
1-Bromo-4-Fluorobenzene
Concen: 10.032 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 95 Resp: 265161

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 59.4 | 48.5 | 72.7 |
| 175 | 4.3 | 3.7 | 5.5 |

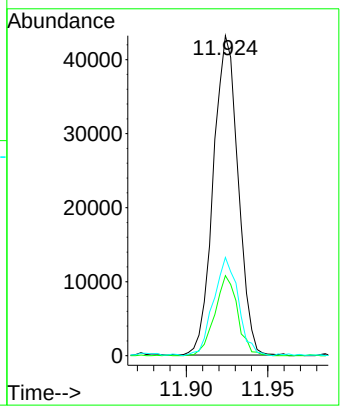





#69
p-Isopropyltoluene
Concen: 0.541 ppbv
RT: 11.924 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:119 Resp: 4557

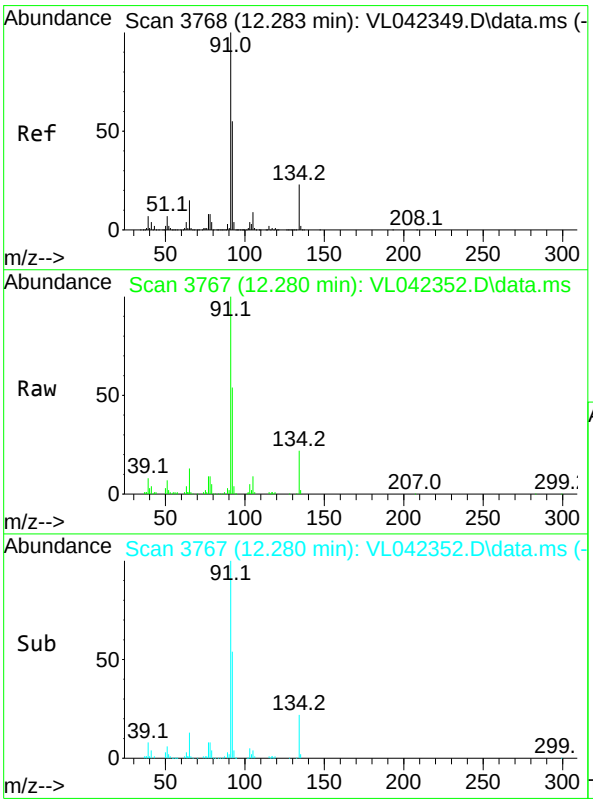
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 23.3 | 20.0 | 30.0 |
| 91 | 31.4 | 24.4 | 36.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
**APPROVED**

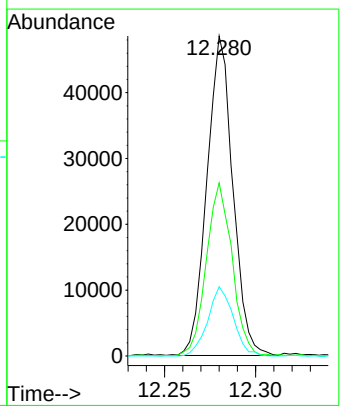
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

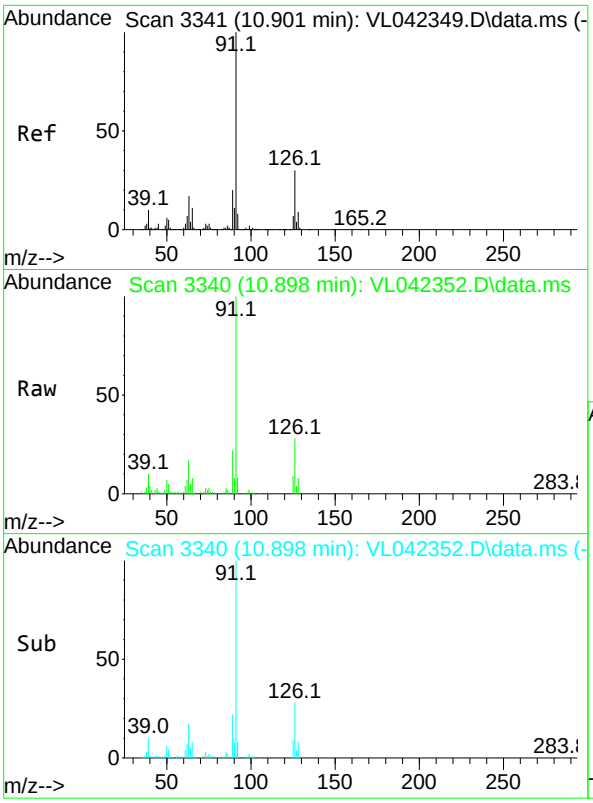



#70
n-Butylbenzene
Concen: 0.547 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 91 Resp: 48004

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 54.7 | 44.2 | 66.4 |
| 134 | 21.4 | 18.2 | 27.4 |

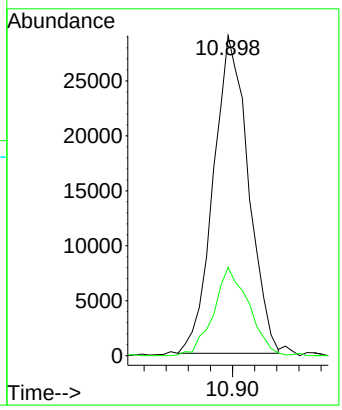





#71
2-Chlorotoluene
Concen: 0.533 ppbv
RT: 10.898 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 91 Resp: 3170

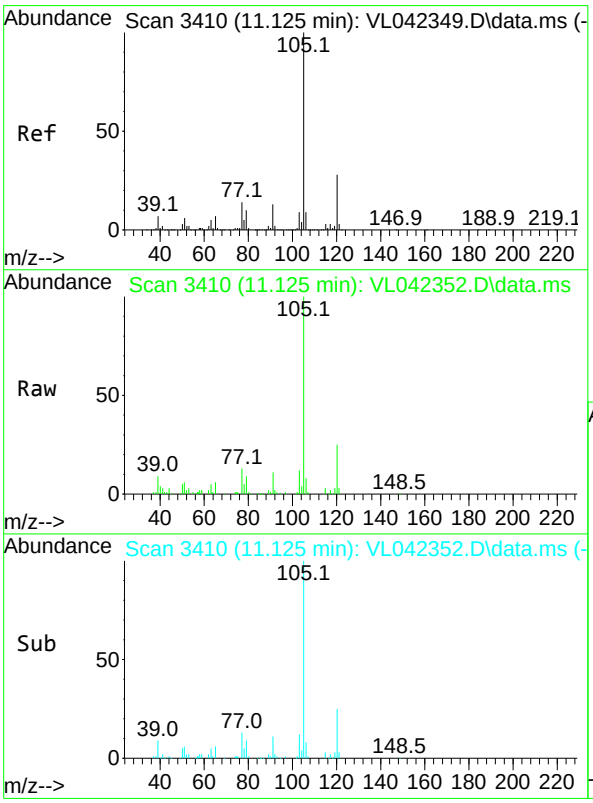
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 28.3 | 11.4 | 45.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
**APPROVED**

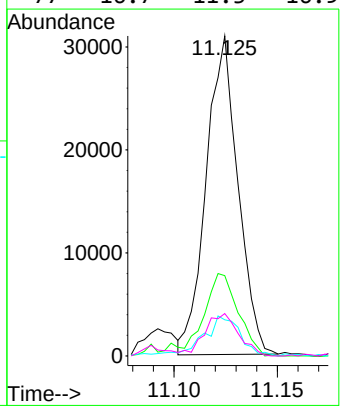
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

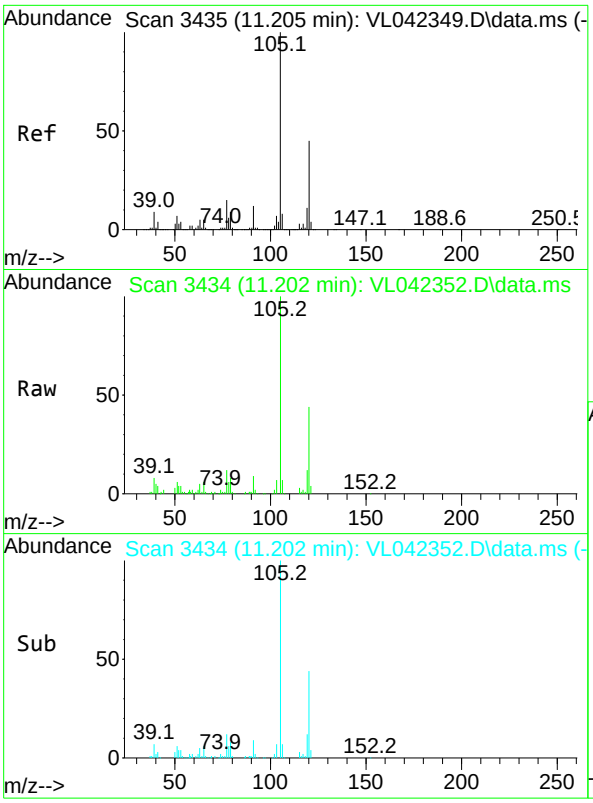



#72
4-Ethyltoluene
Concen: 0.523 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:105 Resp: 33048

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 30.5 | 23.2 | 34.8 |
| 91 | 15.7 | 10.4 | 15.6# |
| 77 | 16.7 | 11.3 | 16.9 |

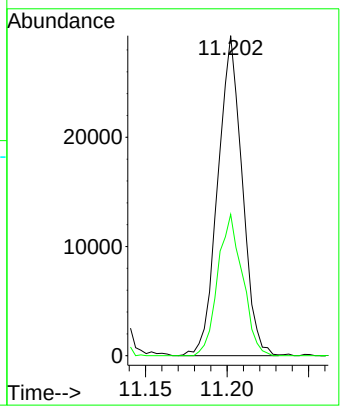





#73
1,3,5-Trimethylbenzene
Concen: 0.546 ppbv
RT: 11.202 min Scan# 34
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:105 Resp: 3046

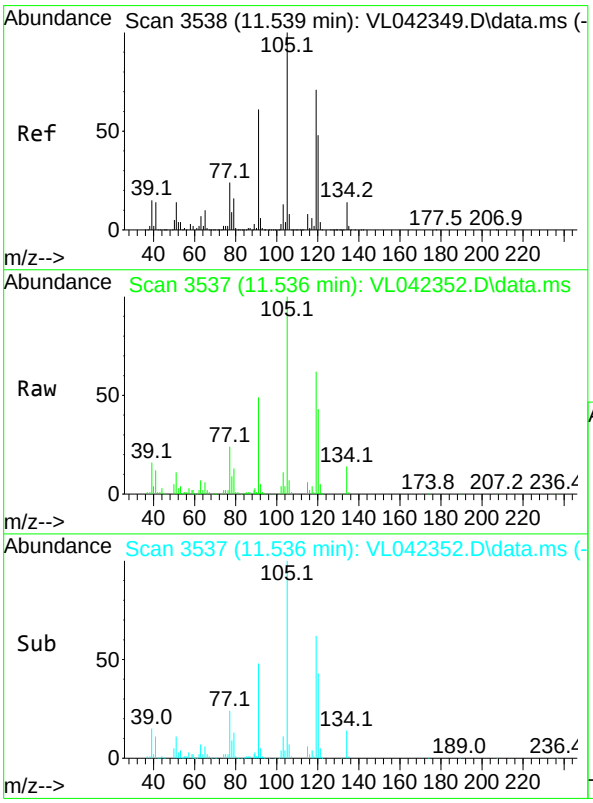
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.1 | 35.6 | 53.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
**APPROVED**

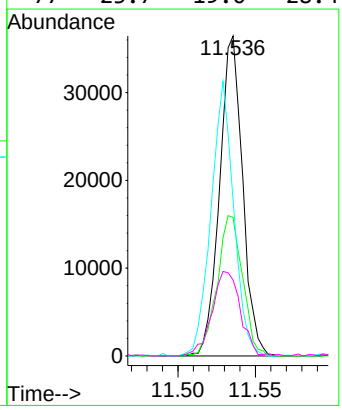
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

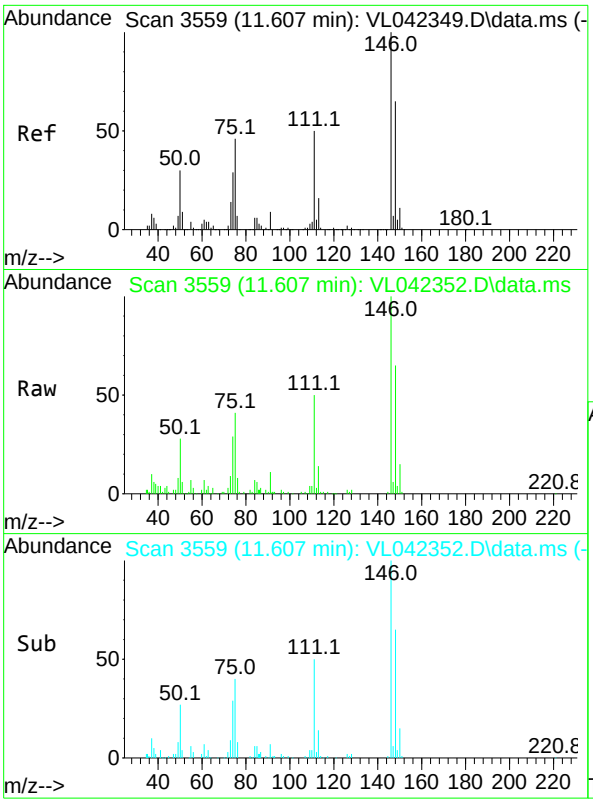



#74
1,2,4-Trimethylbenzene
Concen: 0.579 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:105 Resp: 37765

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 43.3 | 38.1 | 57.1 |
| 91 | 48.7 | 48.8 | 73.2# |
| 77 | 23.7 | 19.0 | 28.4 |

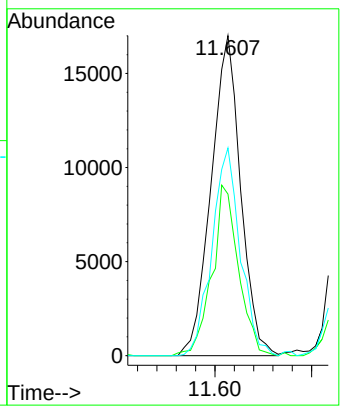





#75
1,3-Dichlorobenzene
Concen: 0.531 ppbv
RT: 11.607 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:146 Resp: 1800

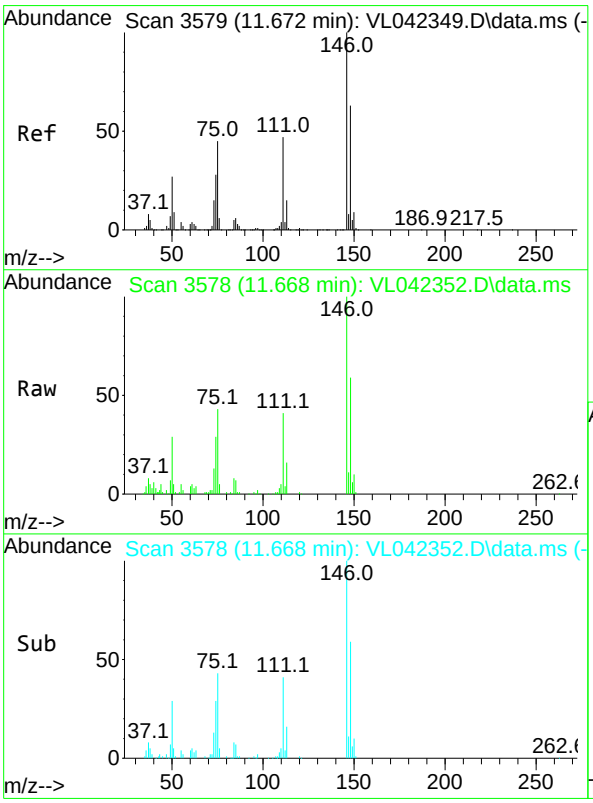
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 47.9 | 24.3 | 72.8 |
| 148 | 62.9 | 31.6 | 94.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
**APPROVED**

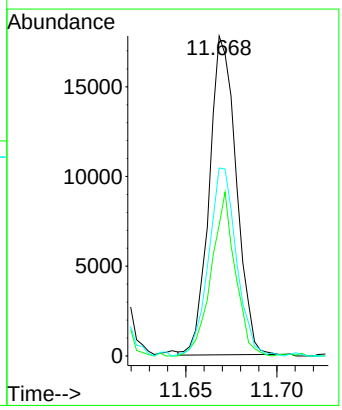
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

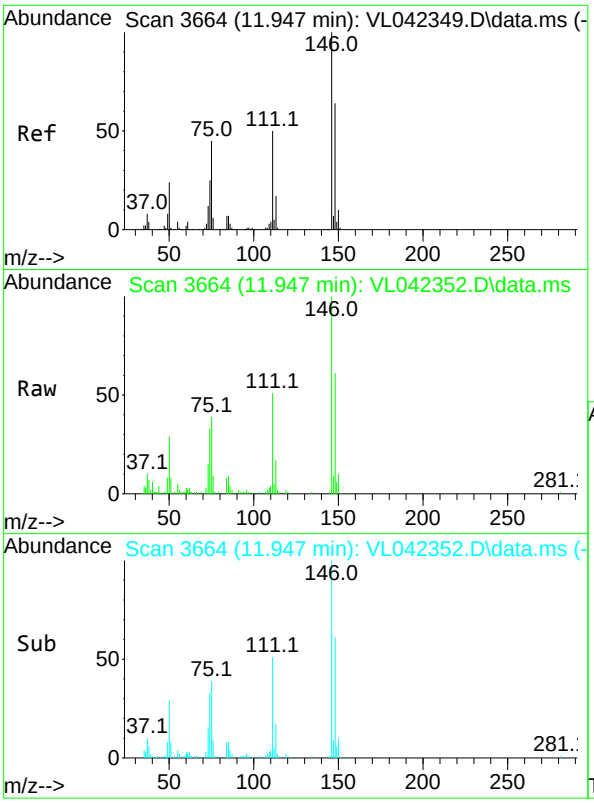



#76
1,4-Dichlorobenzene
Concen: 0.537 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:146 Resp: 18300

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 45.9 | 24.2 | 72.6 |
| 148 | 61.2 | 32.1 | 96.5 |

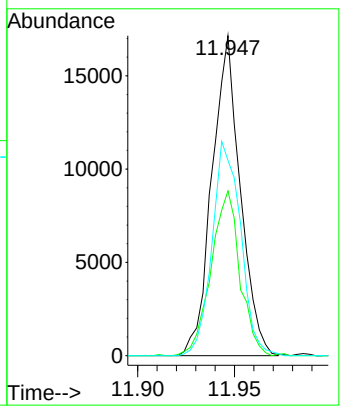





#77
1,2-Dichlorobenzene
Concen: 0.530 ppbv
RT: 11.947 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:146 Resp: 1744

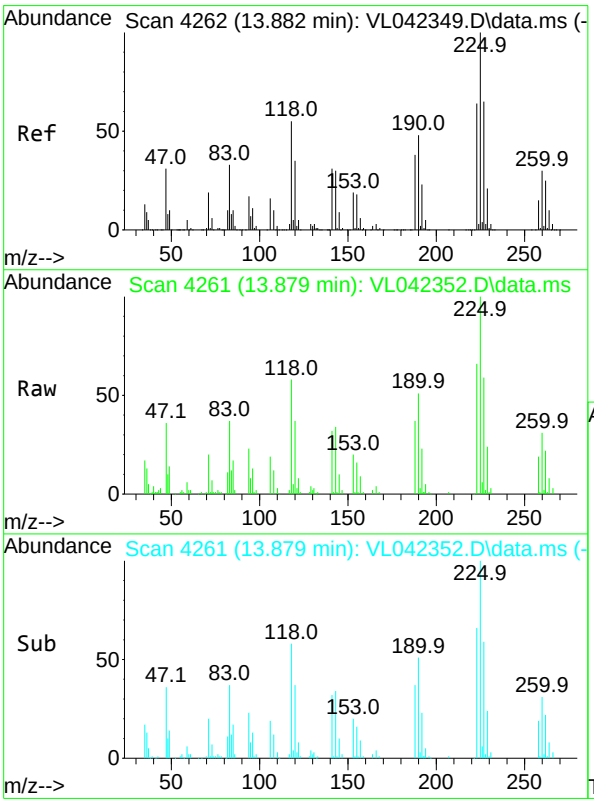
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 52.6 | 25.3 | 75.9 |
| 148 | 67.5 | 31.5 | 94.5 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
**APPROVED**

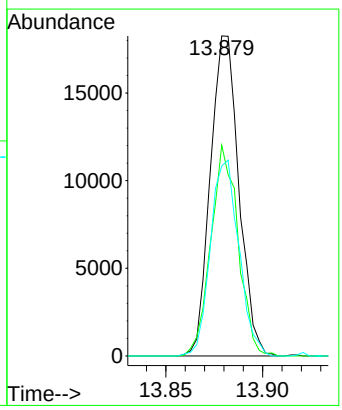
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

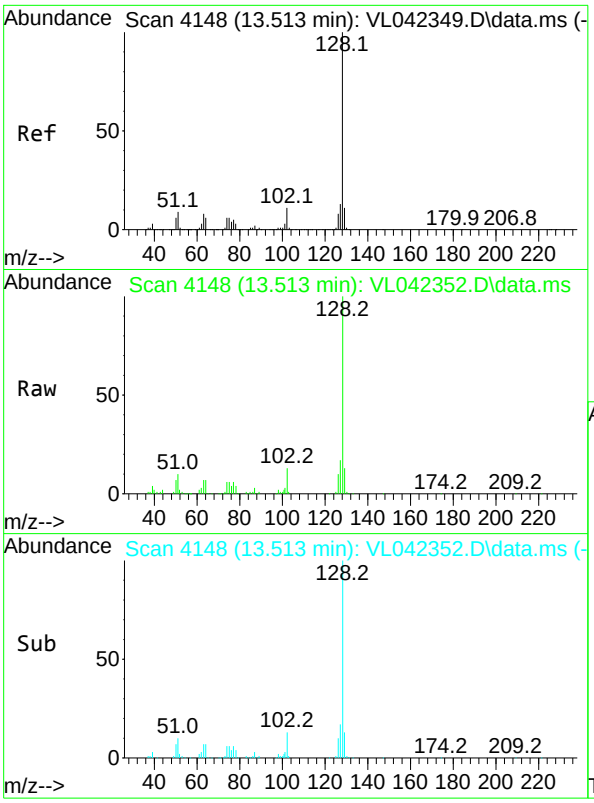



#78
Hexachloro-1,3-Butadiene
Concen: 0.562 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:225 Resp: 18705

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.8 | 50.3 | 75.5 |
| 227 | 61.1 | 51.5 | 77.3 |

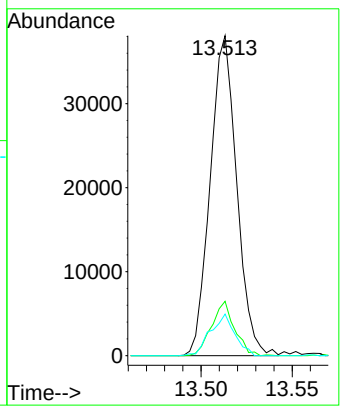





#79
Naphthalene
Concen: 0.494 ppbv
RT: 13.513 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:128 Resp: 3852

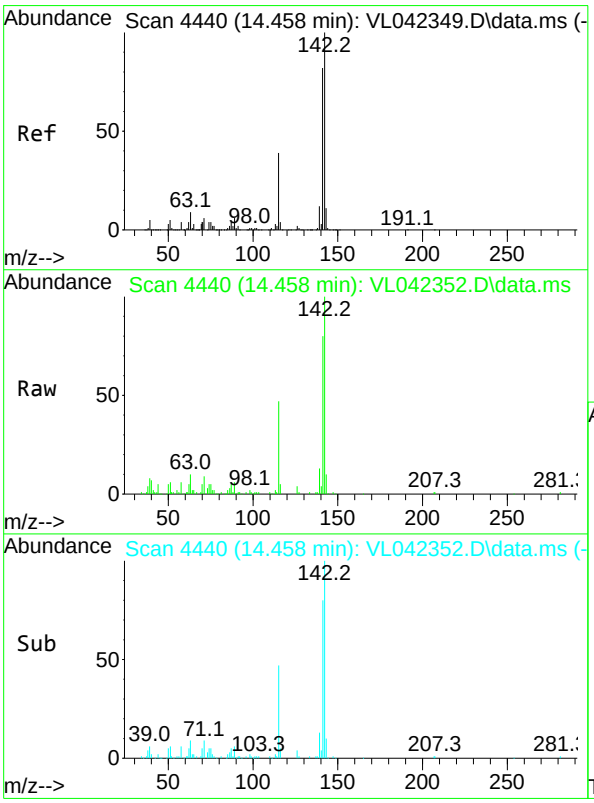
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 17.0 | 10.6 | 15.8# |
| 129 | 13.0 | 8.6 | 12.8# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
**APPROVED**

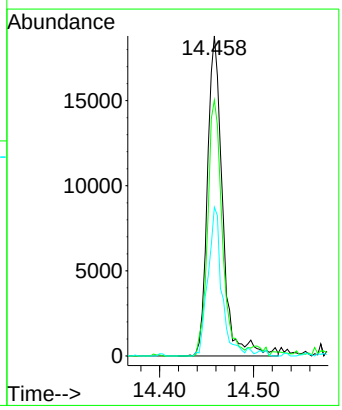
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

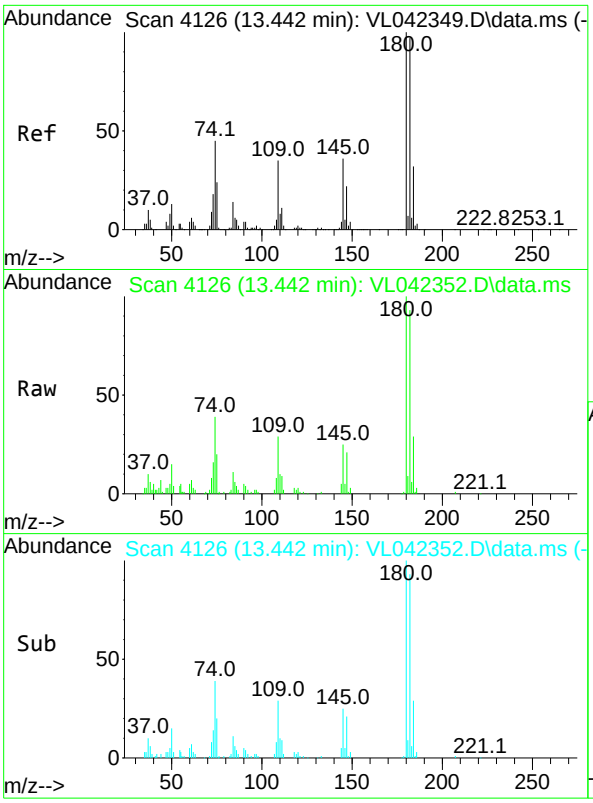



#80
Naphthalene,2-methyl-
Concen: 0.475 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:142 Resp: 21076

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 79.2 | 66.8 | 100.2 |
| 115 | 44.1 | 33.4 | 50.2 |

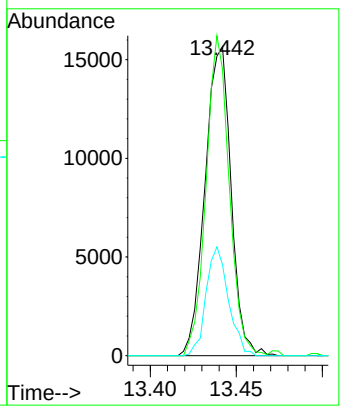





#81
1,2,4-Trichlorobenzene
Concen: 0.493 ppbv
RT: 13.442 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:180 Resp: 1650

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 92.4 | 76.8 | 115.2 |
| 184 | 30.2 | 24.6 | 36.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042353.D
Acq On : 17 Apr 2025 11:50
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 01:29:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.791 | 49 | 119461 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.962 | 114 | 350484 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.885 | 117 | 315004 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.381 | 95 | 256417 | 9.906 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 99.100% | | | |
| Target Compounds | | | | | | Qvalue |
| 5) Vinyl Chloride | 1.580 | 62 | 1088 | 0.120 | ppbv | # 74 |
| 32) 1,1,1-Trichloroethane | 3.367 | 97 | 3393m | 0.115 | ppbv | |
| 35) Carbon Tetrachloride | 3.771 | 117 | 3204 | 0.101 | ppbv | # 94 |
| 38) Trichloroethene | 4.551 | 130 | 1771m | 0.107 | ppbv | |
| 52) Tetrachloroethene | 8.222 | 164 | 1583m | 0.108 | ppbv | |
| 54) 1,2-Dibromoethane | 7.662 | 107 | 2177m | 0.106 | ppbv | |
| 63) 1,1,2,2-Tetrachloroethane | 9.966 | 83 | 3706m | 0.113 | ppbv | |
| 79) Naphthalene | 13.517 | 128 | 7664 | 0.100 | ppbv | # 92 |

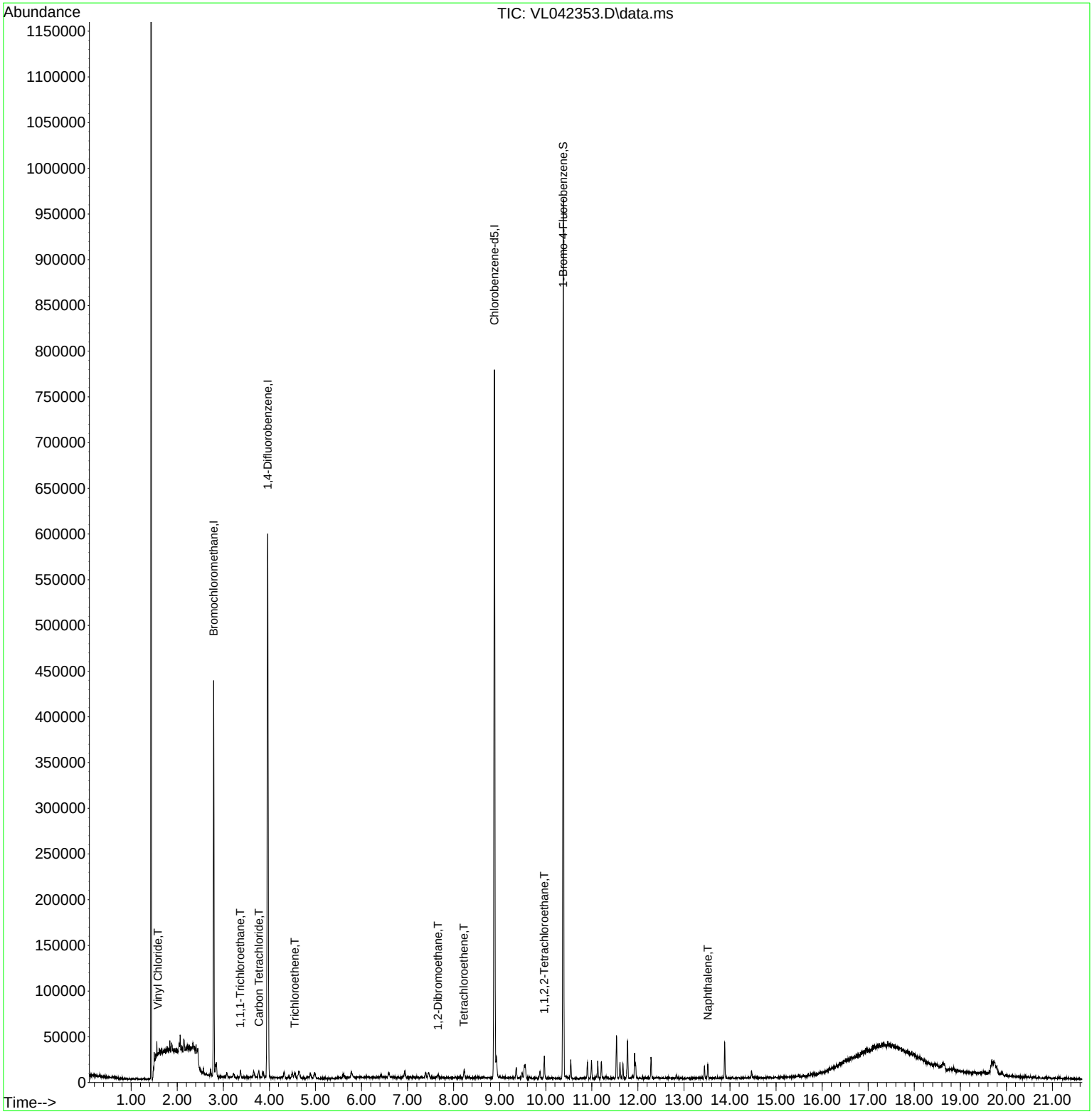
(#) = qualifier out of range (m) = manual integration (+) = signals summed

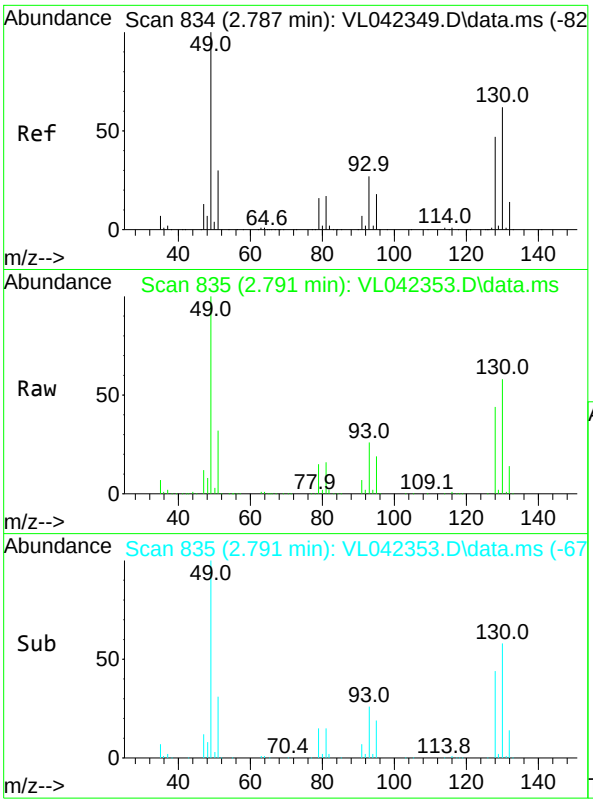
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042353.D
Acq On : 17 Apr 2025 11:50
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 01:29:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

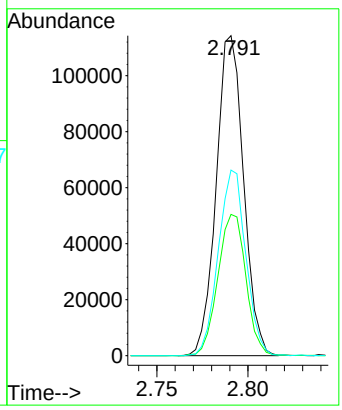





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 8
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 49 Resp: 11946

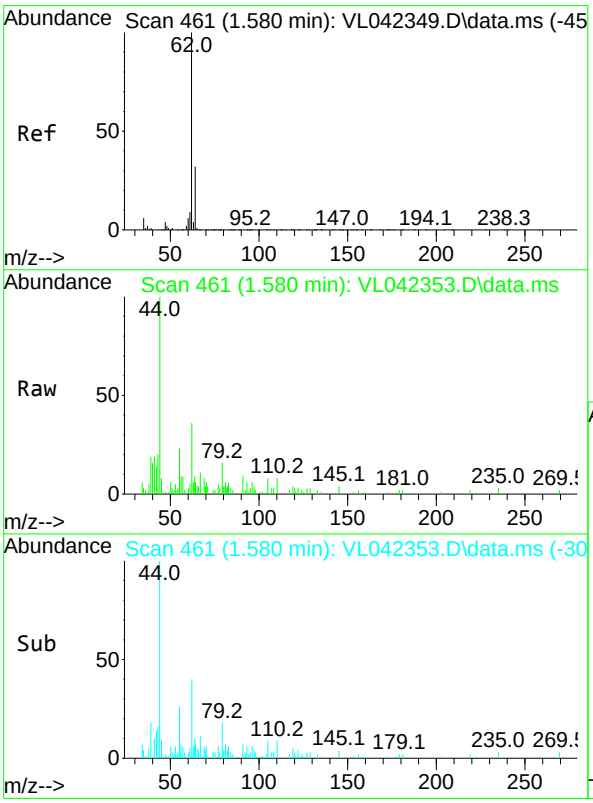
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 45.3 | 22.8 | 68.4 |
| 130 | 58.3 | 29.3 | 88.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

**Manual Integrations**
**APPROVED**

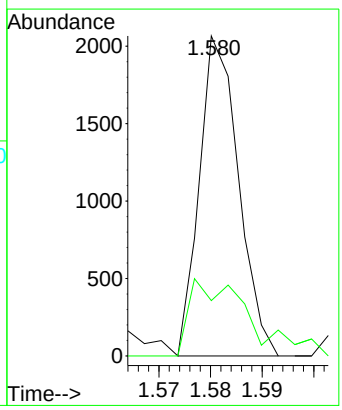
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

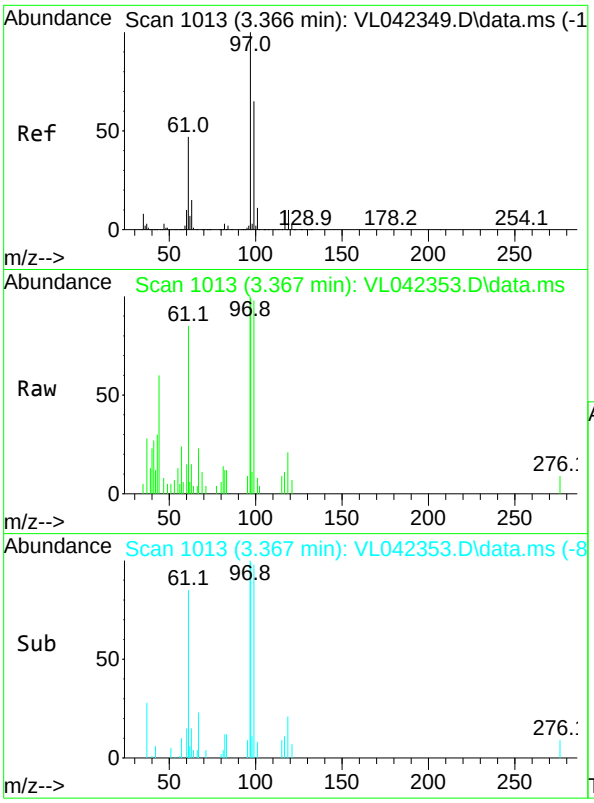



#5
Vinyl Chloride
Concen: 0.120 ppbv
RT: 1.580 min Scan# 461
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 62 Resp: 1088

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 17.3 | 25.4 | 38.0# |

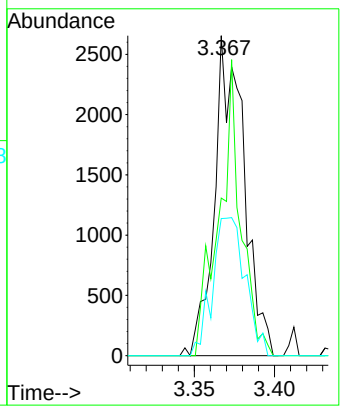





#32
1,1,1-Trichloroethane
Concen: 0.115 ppbv m
RT: 3.367 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 97 Resp: 339

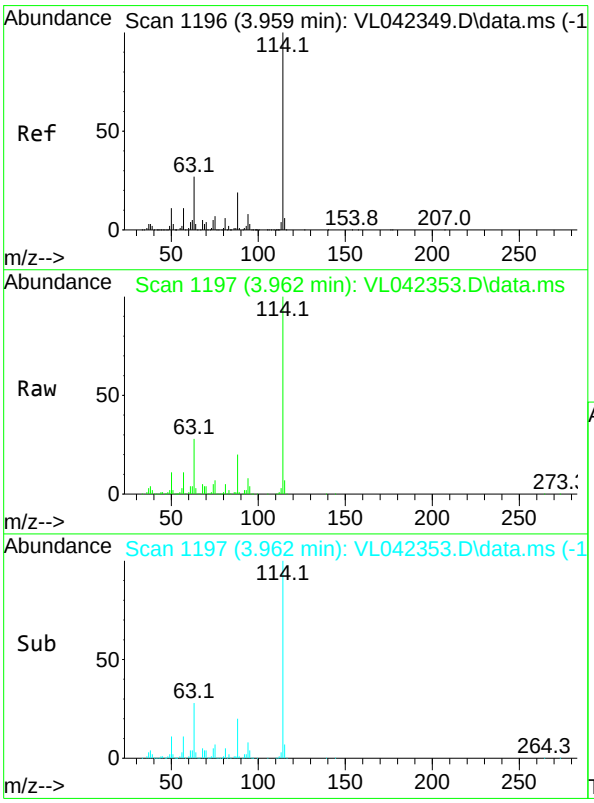
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 68.2 | 51.0 | 76.4 |
| 61 | 47.9 | 38.8 | 58.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

**Manual Integrations**
**APPROVED**

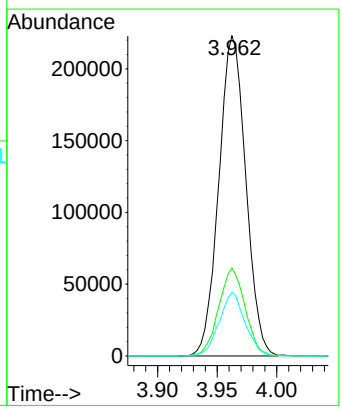
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

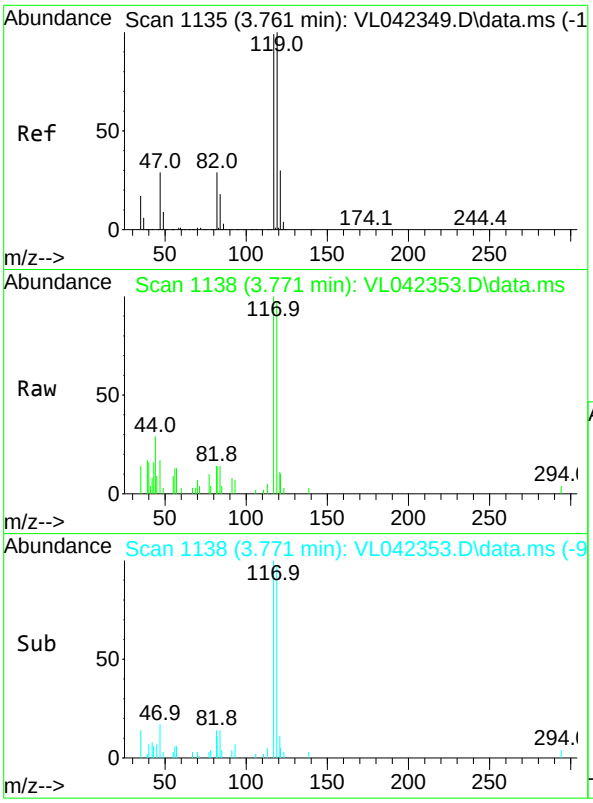



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:114 Resp: 350484

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 26.9 | 21.8 | 32.6 |
| 88 | 19.1 | 15.5 | 23.3 |

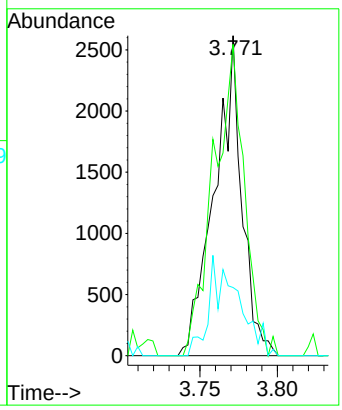





#35
Carbon Tetrachloride
Concen: 0.101 ppbv
RT: 3.771 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:117 Resp: 320

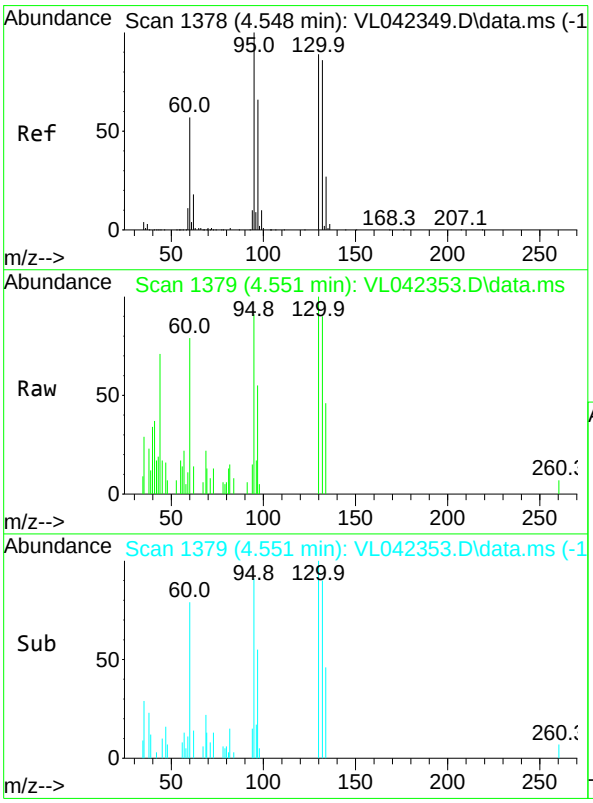
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 97.3 | 80.5 | 120.7 |
| 121 | 21.3 | 24.2 | 36.2# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

**Manual Integrations**
**APPROVED**

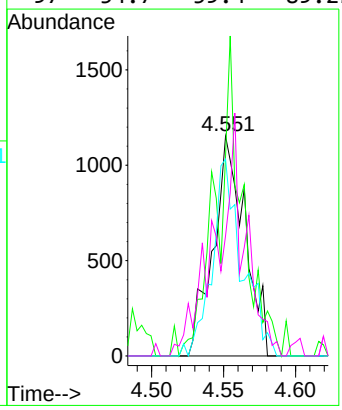
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

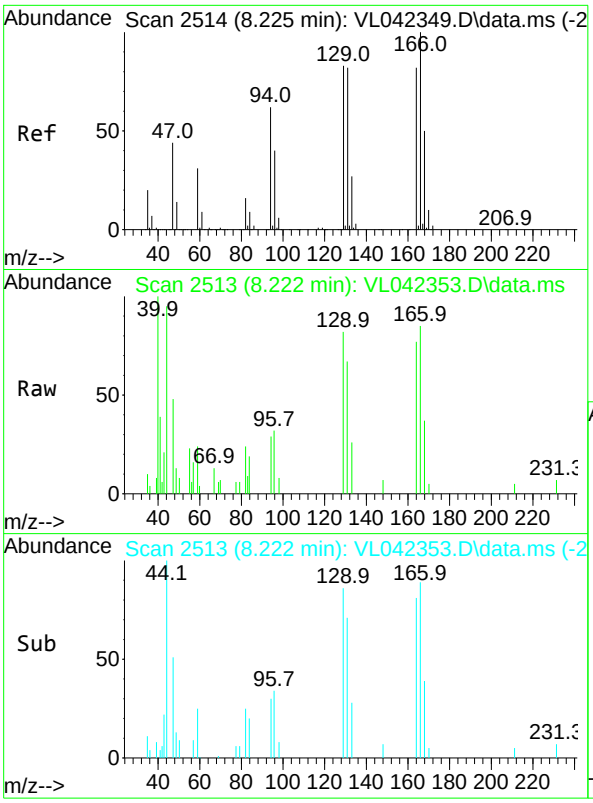



#38
Trichloroethene
Concen: 0.107 ppbv m
RT: 4.551 min Scan# 1379
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:130 Resp: 1771

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 90.9 | 89.8 | 134.6 |
| 132 | 89.6 | 77.7 | 116.5 |
| 97 | 54.7 | 59.4 | 89.2# |

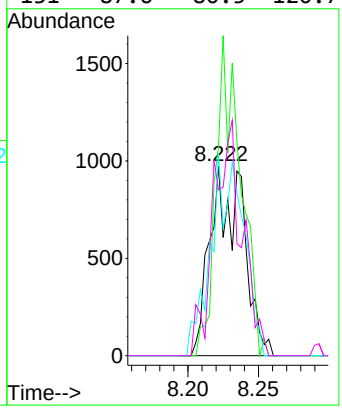





#52
Tetrachloroethene
Concen: 0.108 ppbv m
RT: 8.222 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:164 Resp: 158

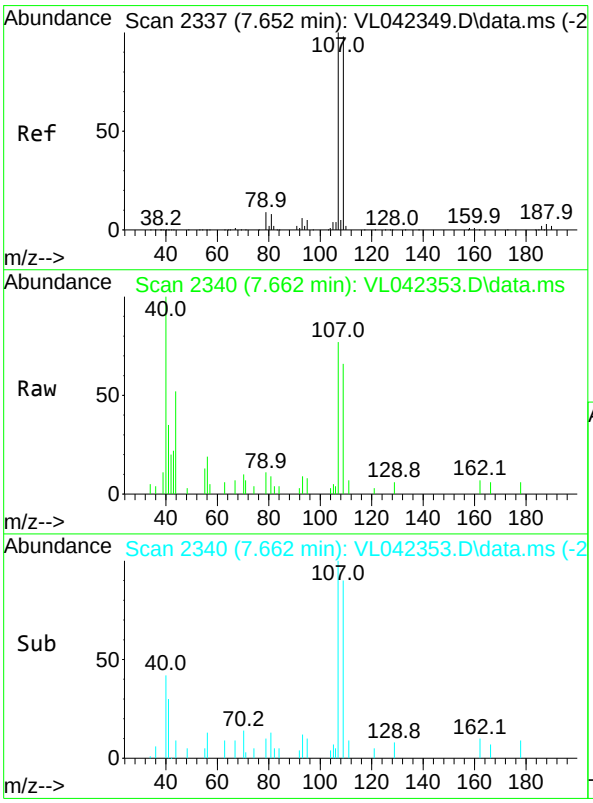
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 110.6 | 98.2 | 147.2 |
| 129 | 106.5 | 81.8 | 122.8 |
| 131 | 87.6 | 80.5 | 120.7 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

**Manual Integrations**
**APPROVED**

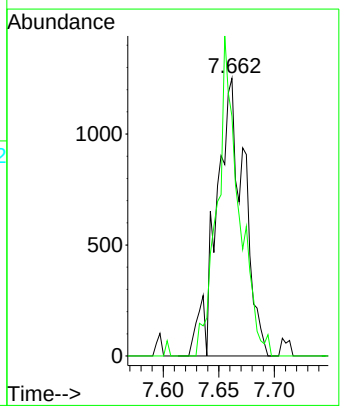
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

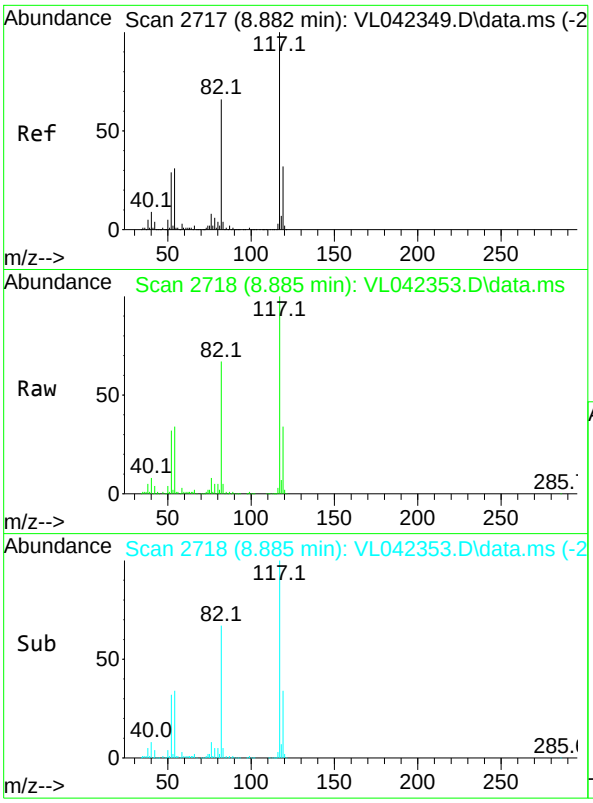



#54
1,2-Dibromoethane
Concen: 0.106 ppbv m
RT: 7.662 min Scan# 2340
Delta R.T. 0.010 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:107 Resp: 2177

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 86.3 | 78.2 | 117.4 |

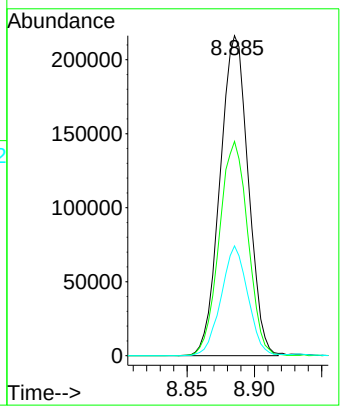





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:117 Resp: 31500

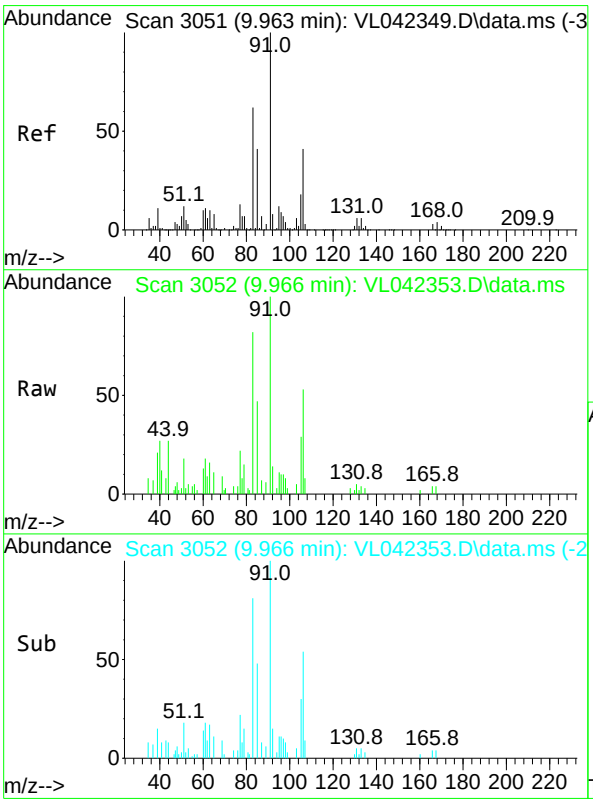
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 68.1 | 57.8 | 86.6 |
| 119 | 33.0 | 25.2 | 37.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

**Manual Integrations**
**APPROVED**

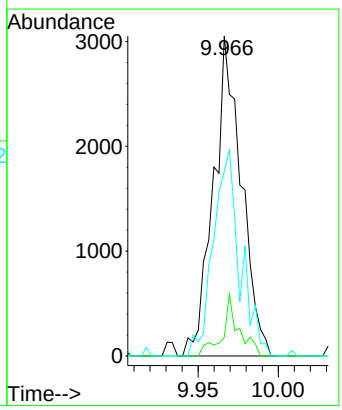
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

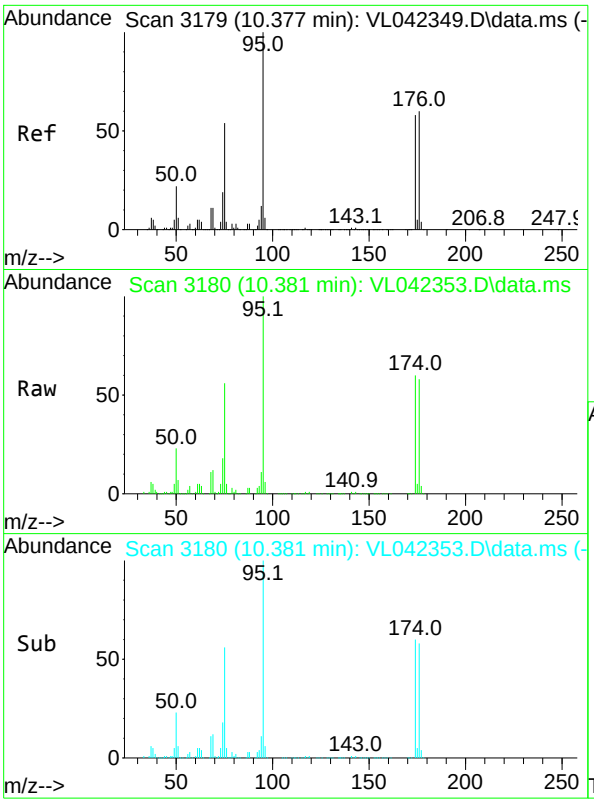



#63
1,1,2,2-Tetrachloroethane
Concen: 0.113 ppbv m
RT: 9.966 min Scan# 3052
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 83 Resp: 3706

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 11.2 | 4.5 | 13.7 |
| 85 | 61.7 | 32.4 | 97.0 |

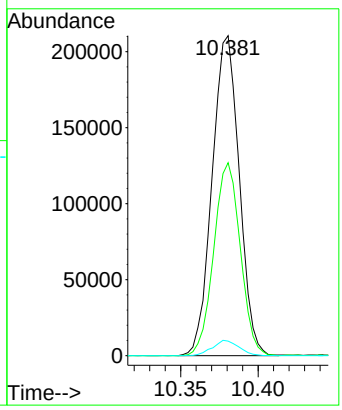





#68
1-Bromo-4-Fluorobenzene
Concen: 9.906 ppbv
RT: 10.381 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 95 Resp: 25641

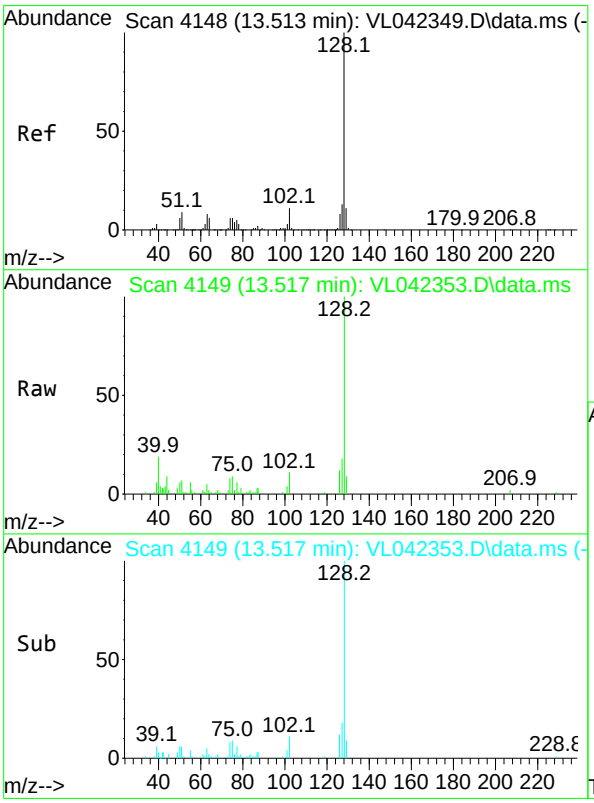
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 59.3 | 48.5 | 72.7 |
| 175 | 4.7 | 3.7 | 5.5 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

**Manual Integrations**
**APPROVED**

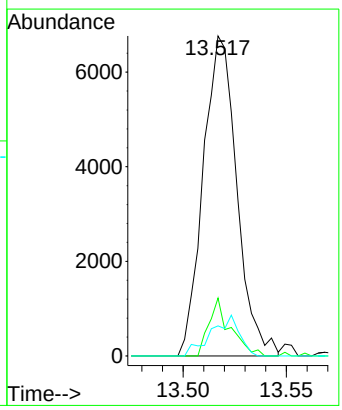
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025




#79
Naphthalene
Concen: 0.100 ppbv
RT: 13.517 min Scan# 4149
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:128 Resp: 7664

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 18.1 | 10.6 | 15.8# |
| 129 | 9.4 | 8.6 | 12.8 |



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042354.D
Acq On : 17 Apr 2025 12:22
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 02:07:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.790 | 49 | 120042 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.965 | 114 | 349264 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.885 | 117 | 312999 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.380 | 95 | 256230 | 9.962 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 99.600% | | | |
| Target Compounds | | | | | | Qvalue |
| 5) Vinyl Chloride | 1.583 | 62 | 361 | 0.040 | ppbv | # 76 |
| 32) 1,1,1-Trichloroethane | 3.373 | 97 | 1120m | 0.038 | ppbv | |
| 35) Carbon Tetrachloride | 3.768 | 117 | 1382m | 0.044 | ppbv | |
| 38) Trichloroethene | 4.538 | 130 | 674m | 0.041 | ppbv | |
| 52) Tetrachloroethene | 8.228 | 164 | 569m | 0.039 | ppbv | |
| 63) 1,1,2,2-Tetrachloroethane | 9.972 | 83 | 1321m | 0.040 | ppbv | |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

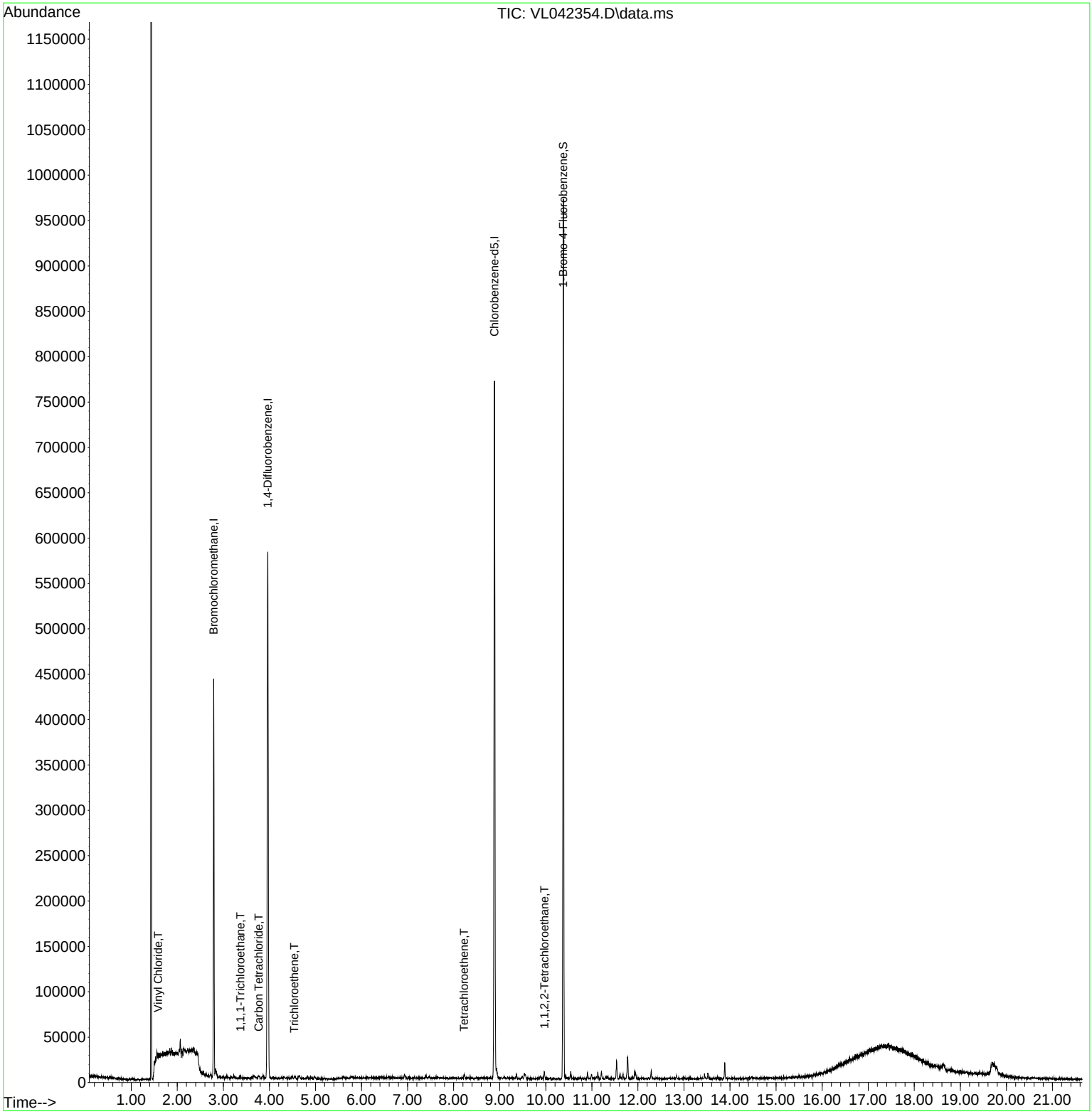
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042354.D
Acq On : 17 Apr 2025 12:22
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

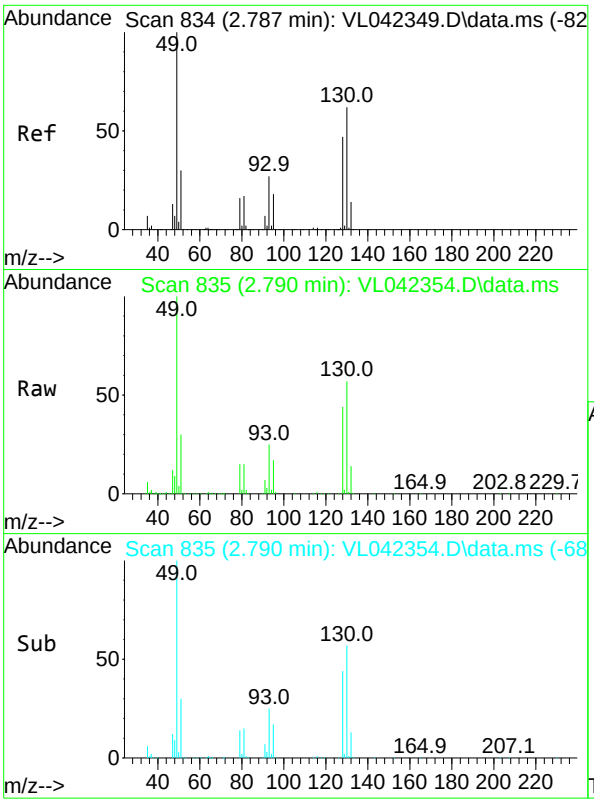
Quant Time: Apr 18 02:07:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

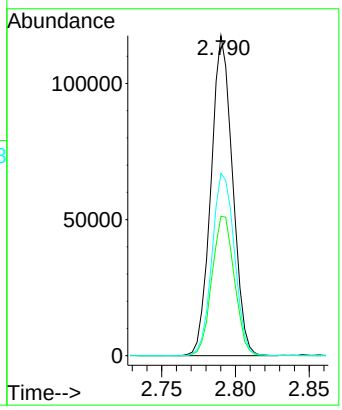





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 49 Resp: 12004

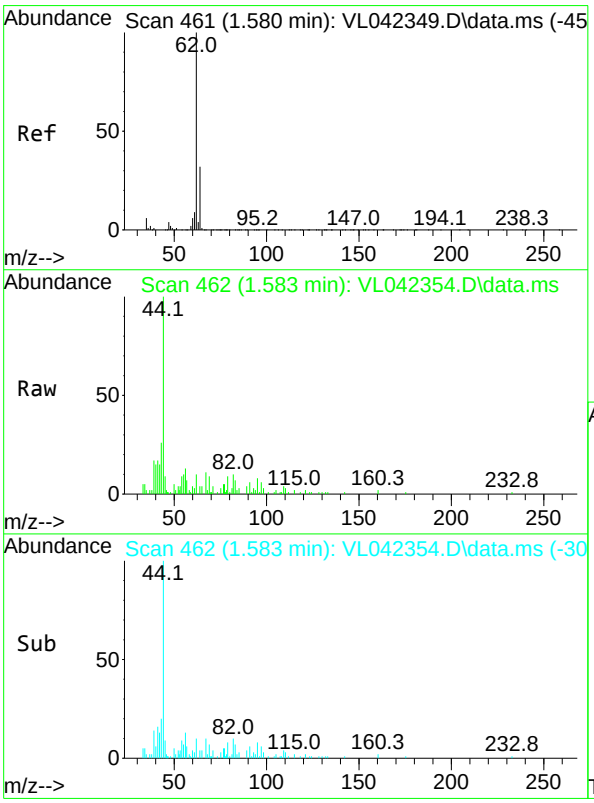
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 45.3 | 22.8 | 68.4 |
| 130 | 59.0 | 29.3 | 88.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

**Manual Integrations**
**APPROVED**

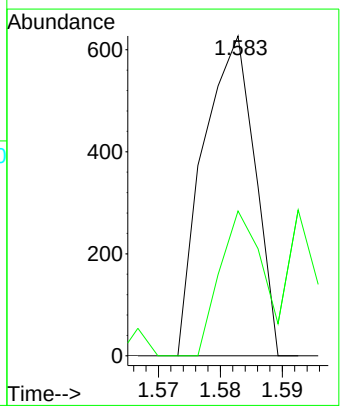
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

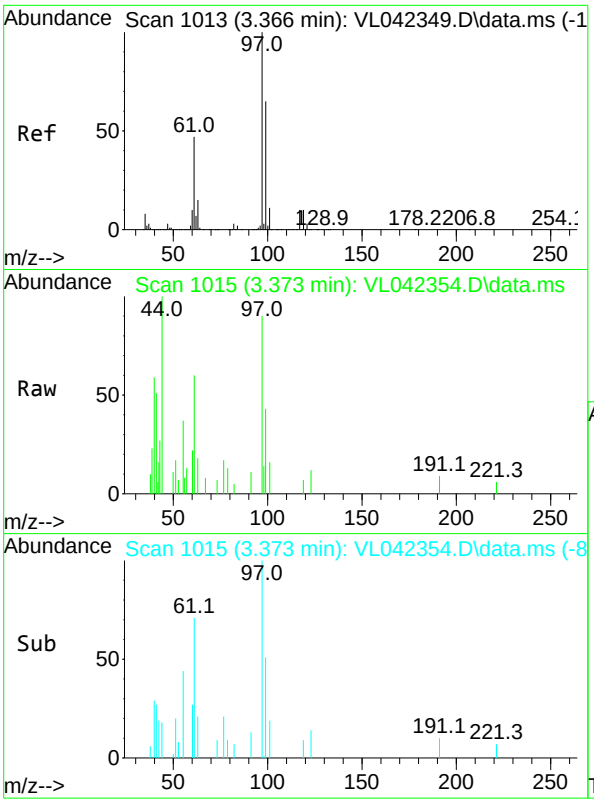



#5
Vinyl Chloride
Concen: 0.040 ppbv
RT: 1.583 min Scan# 462
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 62 Resp: 361

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 45.3 | 25.4 | 38.0# |

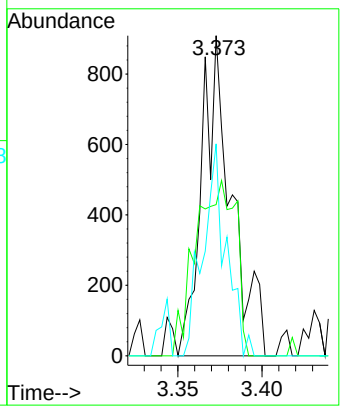





#32
1,1,1-Trichloroethane
Concen: 0.038 ppbv m
RT: 3.373 min Scan# 1(
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 97 Resp: 112(

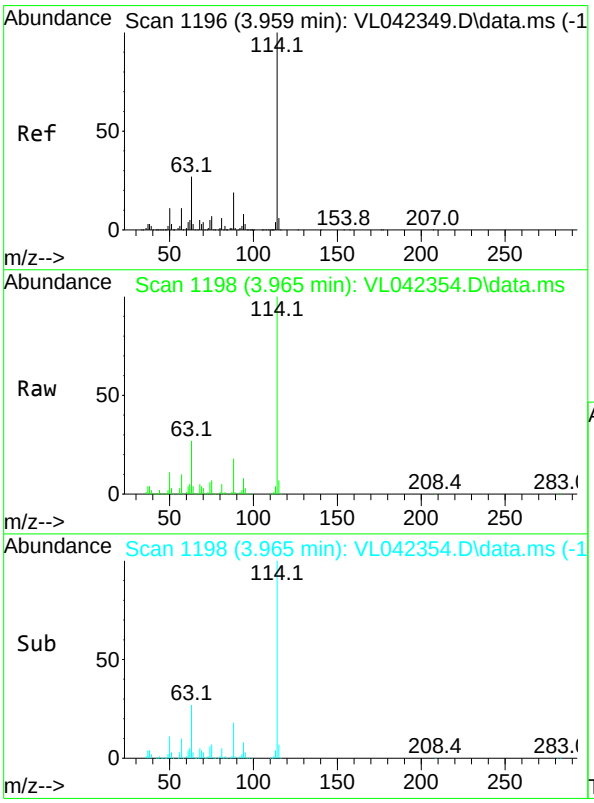
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 74.4 | 51.0 | 76.4 |
| 61 | 56.9 | 38.8 | 58.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

**Manual Integrations**
**APPROVED**

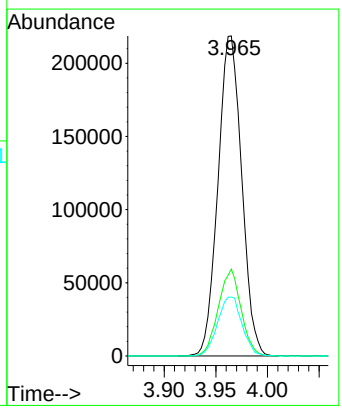
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

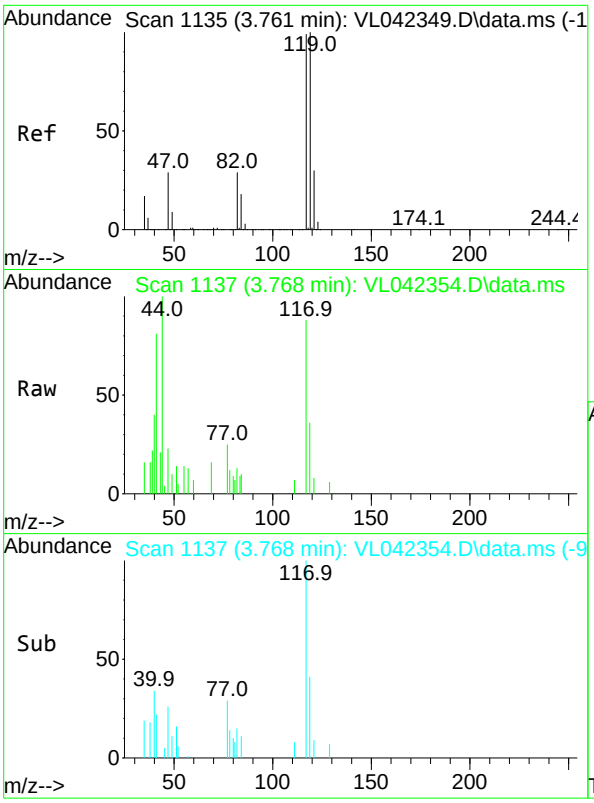



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:114 Resp: 349264

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 26.0 | 21.8 | 32.6 |
| 88 | 19.0 | 15.5 | 23.3 |

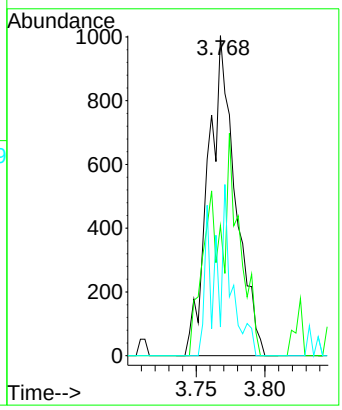





#35
Carbon Tetrachloride
Concen: 0.044 ppbv m
RT: 3.768 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:117 Resp: 138

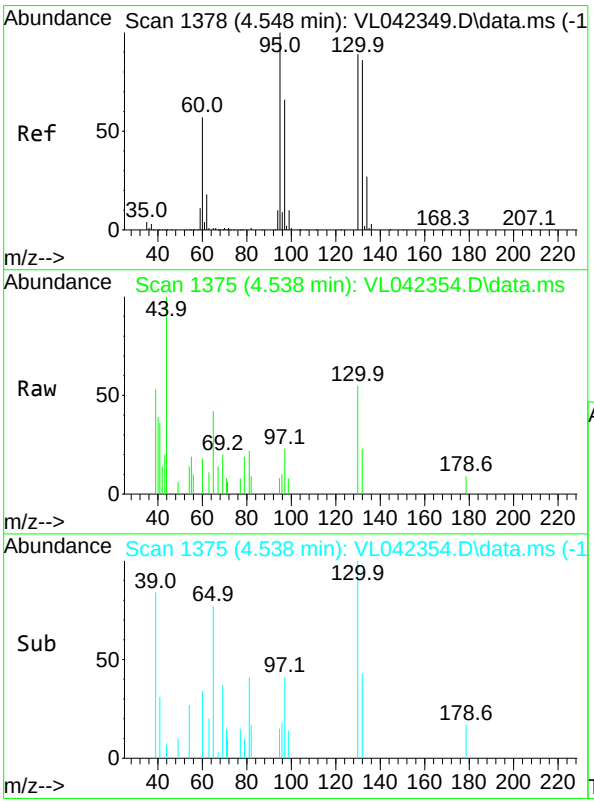
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 40.6 | 80.5 | 120.7# |
| 121 | 9.0 | 24.2 | 36.2# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

**Manual Integrations**
**APPROVED**

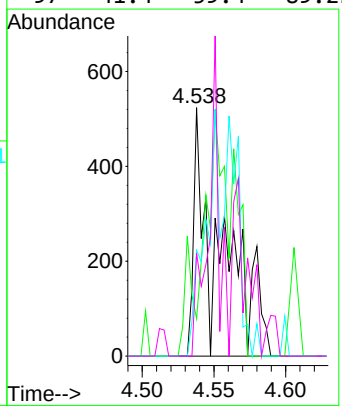
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

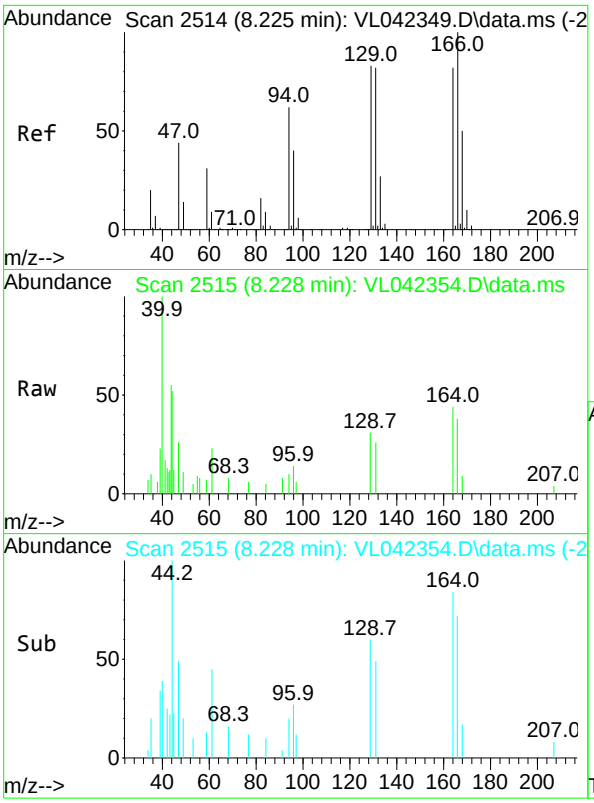



#38
Trichloroethene
Concen: 0.041 ppbv m
RT: 4.538 min Scan# 1375
Delta R.T. -0.010 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:130 Resp: 674

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 15.1 | 89.8 | 134.6# |
| 132 | 42.6 | 77.7 | 116.5# |
| 97 | 41.4 | 59.4 | 89.2# |

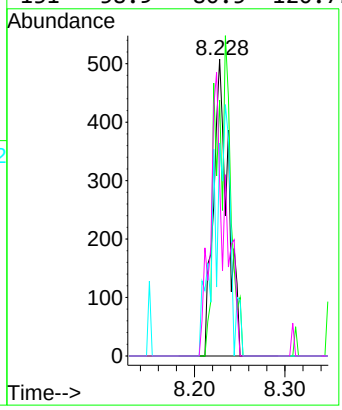





#52
Tetrachloroethene
Concen: 0.039 ppbv m
RT: 8.228 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:164 Resp: 56

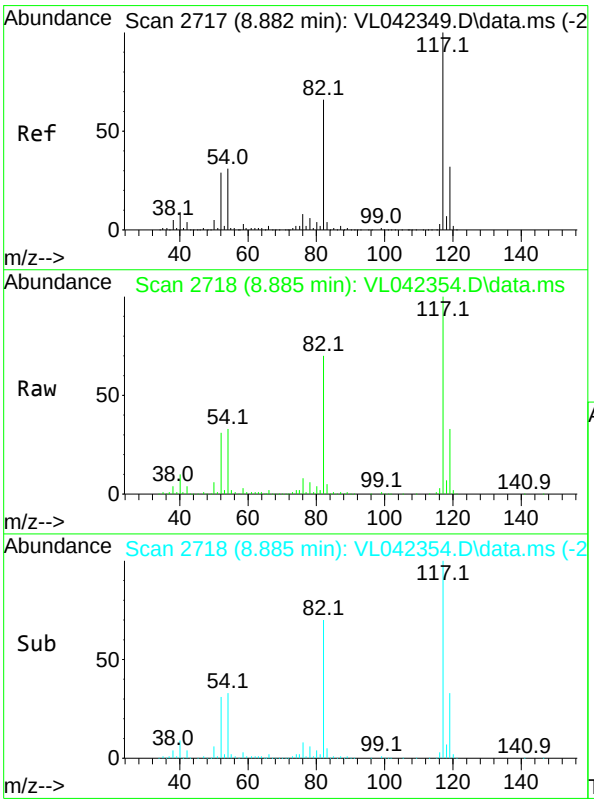
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 86.2 | 98.2 | 147.2# |
| 129 | 71.7 | 81.8 | 122.8# |
| 131 | 58.9 | 80.5 | 120.7# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

**Manual Integrations**
**APPROVED**

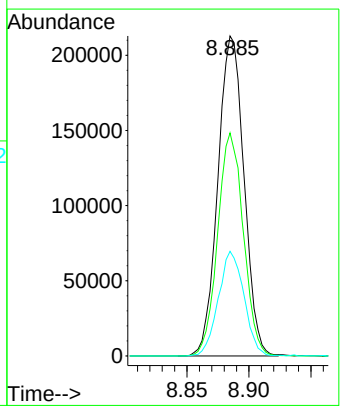
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

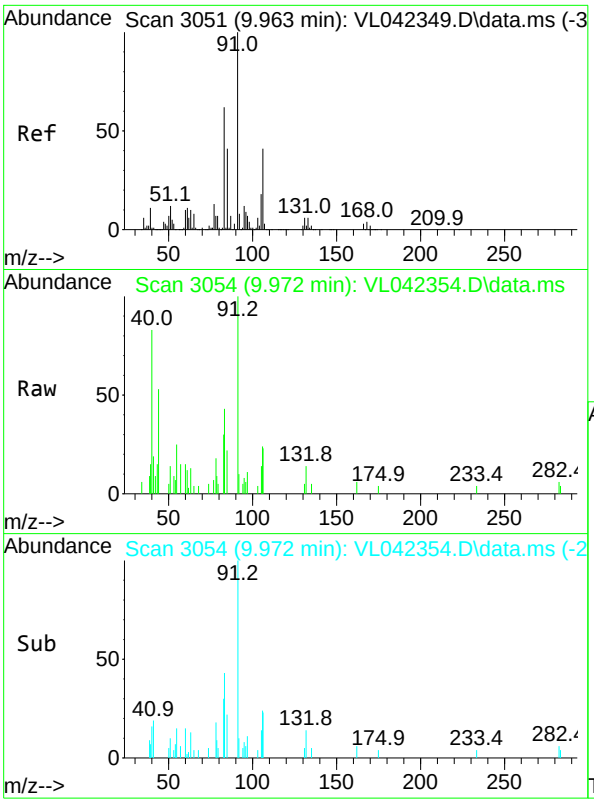



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:117 Resp: 312999

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 68.5 | 57.8 | 86.6 |
| 119 | 32.2 | 25.2 | 37.8 |

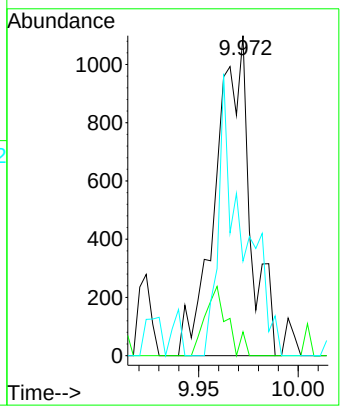





#63
1,1,2,2-Tetrachloroethane
Concen: 0.040 ppbv m
RT: 9.972 min Scan# 3
Delta R.T. 0.010 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 83 Resp: 132

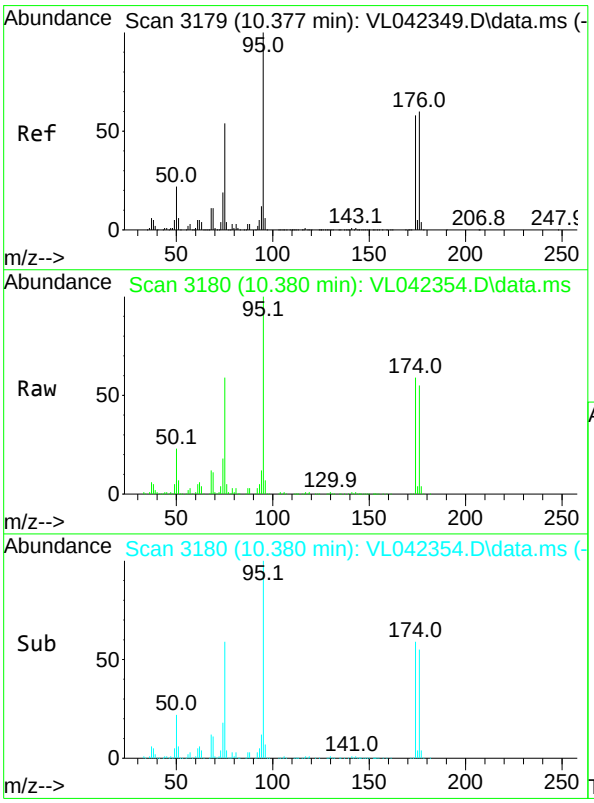
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 13.9 | 4.5 | 13.7# |
| 85 | 61.4 | 32.4 | 97.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

**Manual Integrations**
**APPROVED**

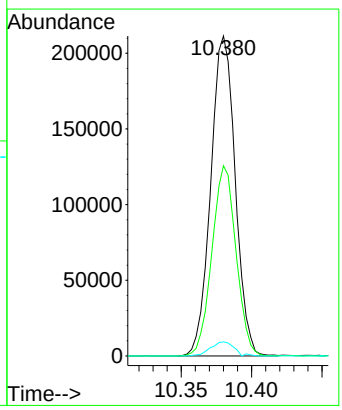
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025




#68
1-Bromo-4-Fluorobenzene
Concen: 9.962 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 95 Resp: 256230

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 58.6 | 48.5 | 72.7 |
| 175 | 4.3 | 3.7 | 5.5 |



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042355.D
Acq On : 17 Apr 2025 12:54
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 01:31:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.787 | 49 | 116071 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.959 | 114 | 332080 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.882 | 117 | 308463 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.374 | 95 | 254437 | 10.038 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 100.400% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.499 | 85 | 292784 | 14.277 | ppbv | 99 |
| 3) Chlorodifluoromethane | 1.477 | 51 | 280042 | 14.341 | ppbv | 98 |
| 4) Chloromethane | 1.532 | 50 | 115775 | 14.266 | ppbv | 99 |
| 5) Vinyl Chloride | 1.580 | 62 | 112650 | 12.752 | ppbv | 100 |
| 6) Bromomethane | 1.667 | 94 | 52805 | 13.800 | ppbv | 88 |
| 7) Chloroethane | 1.703 | 64 | 44347 | 13.881 | ppbv | 98 |
| 8) Dichlorotetrafluoroethane | 1.554 | 85 | 255029 | 14.484 | ppbv | 98 |
| 9) Propene | 1.483 | 41 | 123102 | 13.842 | ppbv | 95 |
| 10) Heptane | 4.979 | 43 | 336134 | 14.047 | ppbv | 100 |
| 11) Trichlorofluoromethane | 1.875 | 101 | 278059 | 14.258 | ppbv | 99 |
| 12) 1,1,2-Trichlorotrifluo... | 2.137 | 101 | 230366 | 14.447 | ppbv | 99 |
| 13) Ethanol | 1.719 | 45 | 6324 | 8.702 | ppbv | 76 |
| 14) Bromoethene | 1.781 | 108 | 84851 | 14.117 | ppbv | 99 |
| 15) Acetone | 1.833 | 43 | 229086 | 12.056 | ppbv | 99 |
| 16) 1,3-Butadiene | 1.609 | 39 | 117997 | 13.224 | ppbv | 96 |
| 17) tert-Butyl alcohol | 2.040 | 59 | 320605 | 13.615 | ppbv | 99 |
| 18) 1,1-Dichloroethene | 2.033 | 96 | 107666 | 14.045 | ppbv | 99 |
| 19) Isopropyl Alcohol | 1.884 | 45 | 139004 | 13.169 | ppbv | 94 |
| 20) Methylene Chloride | 2.059 | 84 | 91093 | 12.241 | ppbv | 90 |
| 21) Allyl Chloride | 2.095 | 41 | 187995 | 14.329 | ppbv | 99 |
| 22) trans-1,2-Dichloroethene | 2.341 | 96 | 118492 | 13.970 | ppbv | 94 |
| 23) Vinyl Acetate | 2.460 | 43 | 106135 | 13.799 | ppbv # | 98 |
| 24) 1,1-Dichloroethane | 2.409 | 63 | 235466 | 14.615 | ppbv | 99 |
| 25) Ethyl Acetate | 2.836 | 43 | 663644 | 14.166 | ppbv | 100 |
| 26) Hexane | 2.826 | 57 | 260975 | 13.765 | ppbv | 97 |
| 27) Carbon Disulfide | 2.150 | 76 | 299098 | 14.734 | ppbv | 97 |
| 28) Methyl tert-Butyl Ether | 2.438 | 73 | 174855 | 14.076 | ppbv | 95 |
| 29) Chloroform | 2.849 | 83 | 385686 | 14.393 | ppbv | 99 |
| 30) Cyclohexane | 3.855 | 84 | 217375 | 14.238 | ppbv | 98 |
| 31) cis-1,2-Dichloroethene | 2.719 | 61 | 264972 | 14.700 | ppbv | 98 |
| 32) 1,1,1-Trichloroethane | 3.367 | 97 | 412537 | 14.357 | ppbv | 99 |
| 34) 2-Butanone | 2.558 | 43 | 367315 | 13.986 | ppbv | 100 |
| 35) Carbon Tetrachloride | 3.762 | 117 | 409916 | 13.639 | ppbv | 94 |
| 36) Benzene | 3.655 | 78 | 522156 | 14.578 | ppbv | 97 |
| 37) 1,2-Dichloroethane | 3.218 | 62 | 319517 | 14.863 | ppbv | 100 |
| 38) Trichloroethene | 4.548 | 130 | 208508 | 13.278 | ppbv | 98 |
| 39) 1,2-Dichloropropane | 4.312 | 63 | 189697 | 14.201 | ppbv | 97 |
| 40) 1,4-Dioxane | 4.580 | 88 | 92114 | 12.733 | ppbv # | 95 |
| 41) Tetrahydrofuran | 3.053 | 42 | 214949 | 14.166 | ppbv | 98 |
| 42) Bromodichloromethane | 4.490 | 83 | 442735 | 14.798 | ppbv | 95 |
| 43) Methyl Methacrylate | 4.878 | 69 | 219757 | 13.670 | ppbv | 95 |
| 44) 2,2,4-Trimethylpentane | 4.642 | 57 | 893529 | 14.425 | ppbv | 99 |
| 45) t-1,3-Dichloropropene | 6.412 | 75 | 244470 | 14.810 | ppbv | 94 |

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042355.D
Acq On : 17 Apr 2025 12:54
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 01:31:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.600 | 75 | 300145 | 14.878 | ppbv | | 90 |
| 47) 1,1,2-Trichloroethane | 6.581 | 97 | 198874 | 14.615 | ppbv | | 98 |
| 48) Dibromochloromethane | 7.390 | 129 | 362887 | 15.105 | ppbv | | 98 |
| 49) Bromoform | 9.484 | 173 | 312282 | 14.865 | ppbv | | 99 |
| 50) 4-Methyl-2-Pentanone | 5.749 | 43 | 563658 | 12.889 | ppbv | | 99 |
| 51) 2-Hexanone | 7.435 | 43 | 467001 | 11.834 | ppbv | # | 98 |
| 52) Tetrachloroethene | 8.225 | 164 | 180631 | 13.046 | ppbv | | 97 |
| 53) Toluene | 6.933 | 91 | 619420 | 14.411 | ppbv | | 99 |
| 54) 1,2-Dibromoethane | 7.652 | 107 | 280071 | 14.442 | ppbv | | 92 |
| 56) 1,1,1,2-Tetrachloroethane | 8.927 | 131 | 268626 | 14.389 | ppbv | | 97 |
| 57) Chlorobenzene | 8.921 | 112 | 454017 | 14.151 | ppbv | | 97 |
| 58) Ethyl Benzene | 9.354 | 91 | 874424 | 14.308 | ppbv | | 100 |
| 59) m/p-Xylene | 9.552 | 91 | 1388086m | 28.109 | ppbv | | |
| 60) o-Xylene | 9.963 | 91 | 689246 | 13.902 | ppbv | | 99 |
| 61) Styrene | 9.872 | 104 | 339508 | 14.347 | ppbv | | 99 |
| 62) Isopropylbenzene | 10.539 | 105 | 1018968 | 13.999 | ppbv | | 100 |
| 63) 1,1,2,2-Tetrachloroethane | 9.963 | 83 | 412898 | 12.816 | ppbv | | 100 |
| 64) n-propylbenzene | 10.989 | 120 | 260812 | 14.255 | ppbv | | 94 |
| 65) tert-Butylbenzene | 11.533 | 119 | 899720 | 13.449 | ppbv | | 93 |
| 66) Benzyl Chloride | 11.617 | 91 | 96016 | 13.061 | ppbv | | 96 |
| 67) sec-Butylbenzene | 11.769 | 105 | 1253263 | 13.468 | ppbv | | 100 |
| 69) p-Isopropyltoluene | 11.928 | 119 | 1081850 | 13.382 | ppbv | | 99 |
| 70) n-Butylbenzene | 12.284 | 91 | 1117042 | 13.266 | ppbv | | 100 |
| 71) 2-Chlorotoluene | 10.902 | 91 | 806728 | 14.131 | ppbv | | 100 |
| 72) 4-Ethyltoluene | 11.125 | 105 | 848077 | 13.992 | ppbv | | 99 |
| 73) 1,3,5-Trimethylbenzene | 11.206 | 105 | 726558 | 13.578 | ppbv | | 99 |
| 74) 1,2,4-Trimethylbenzene | 11.539 | 105 | 785772 | 12.572 | ppbv | | 97 |
| 75) 1,3-Dichlorobenzene | 11.610 | 146 | 444086 | 13.670 | ppbv | | 99 |
| 76) 1,4-Dichlorobenzene | 11.672 | 146 | 450662 | 13.802 | ppbv | | 98 |
| 77) 1,2-Dichlorobenzene | 11.947 | 146 | 427372 | 13.529 | ppbv | | 99 |
| 78) Hexachloro-1,3-Butadiene | 13.883 | 225 | 404441 | 12.679 | ppbv | | 100 |
| 79) Naphthalene | 13.514 | 128 | 944085 | 12.632 | ppbv | | 98 |
| 80) Naphthalene,2-methyl- | 14.459 | 142 | 540339 | 12.686 | ppbv | | 99 |
| 81) 1,2,4-Trichlorobenzene | 13.442 | 180 | 429982 | 13.398 | ppbv | | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

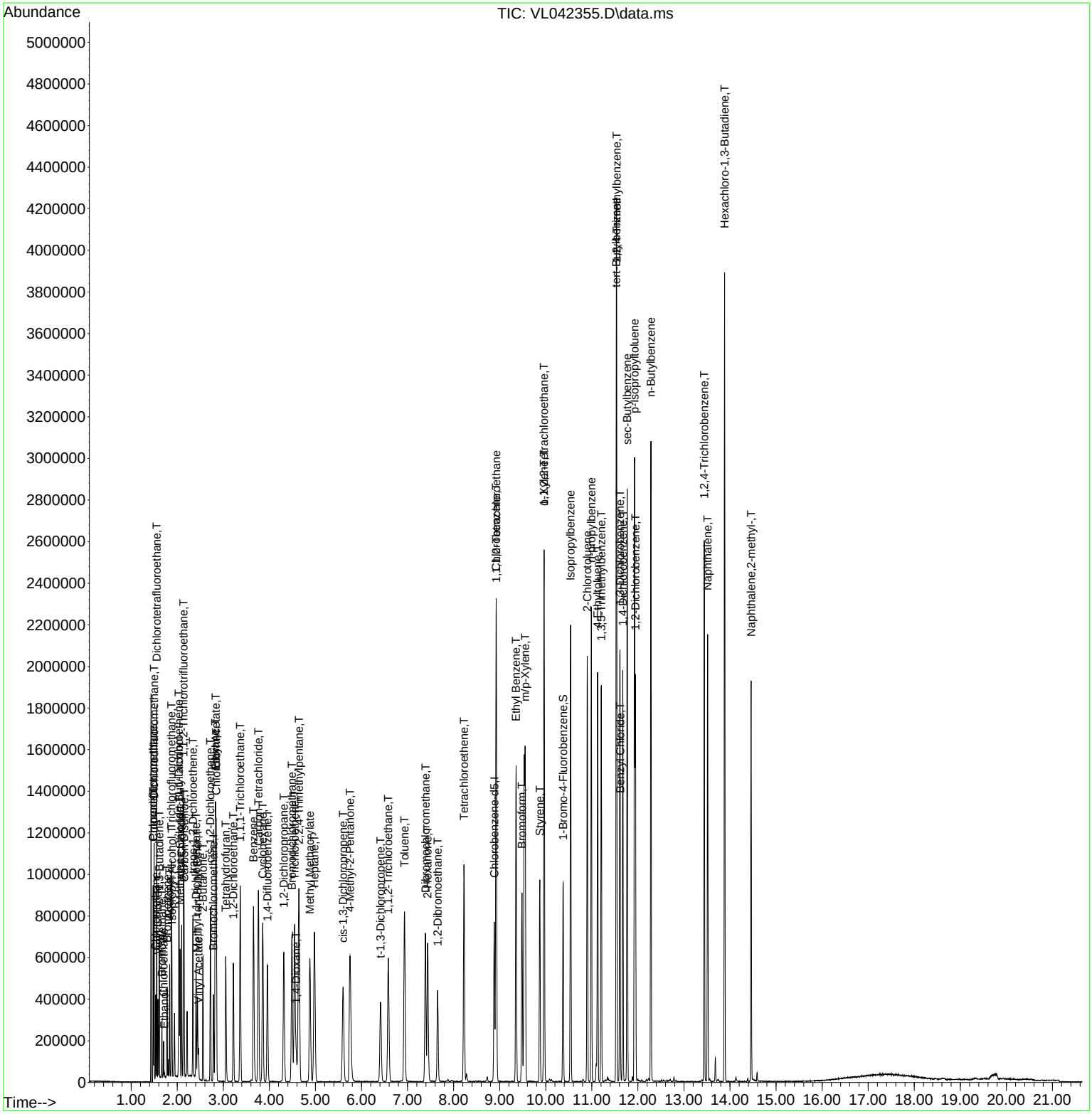
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042355.D
Acq On : 17 Apr 2025 12:54
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

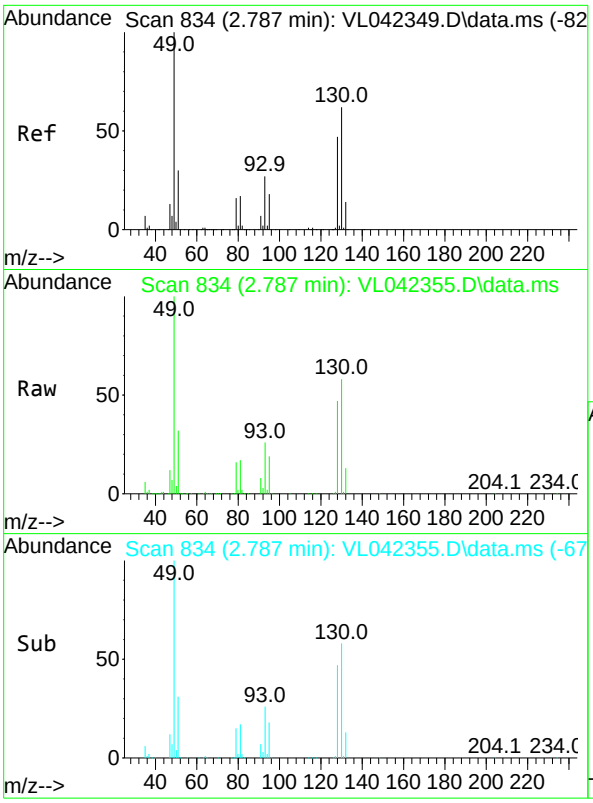
Quant Time: Apr 18 01:31:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

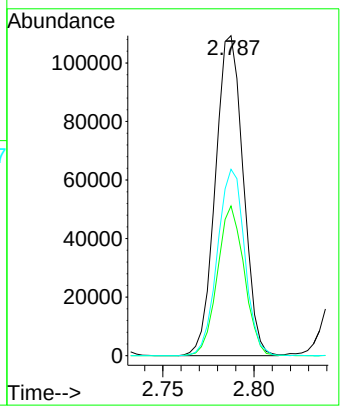





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 49 Resp: 11607

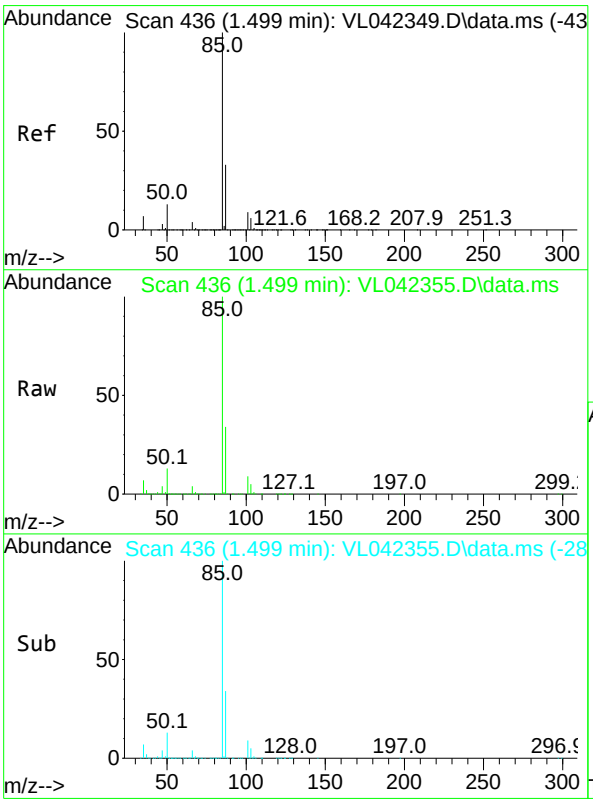
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 45.1 | 22.8 | 68.4 |
| 130 | 57.1 | 29.3 | 88.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

**Manual Integrations**
**APPROVED**

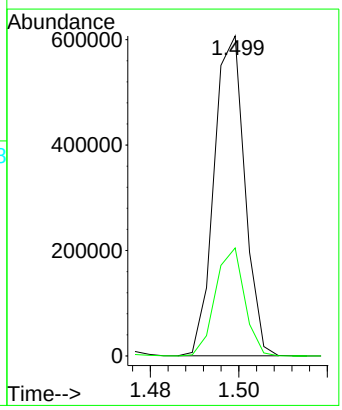
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

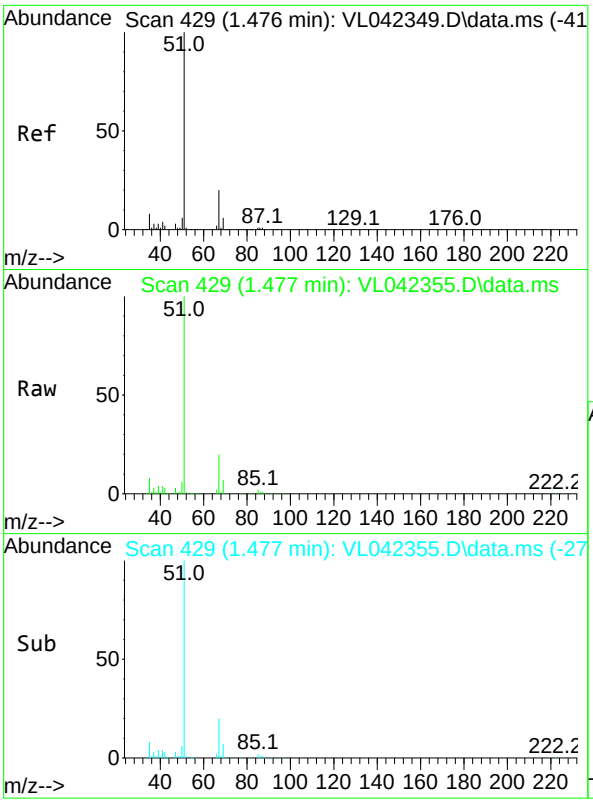



#2
Dichlorodifluoromethane
Concen: 14.277 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 85 Resp: 292784

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.8 | 26.6 | 39.8 |

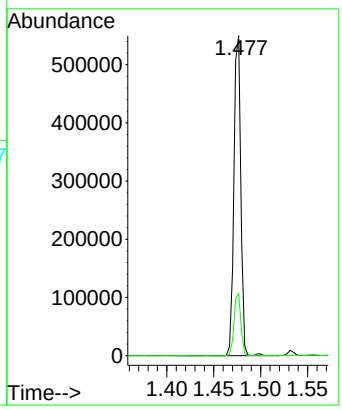





#3
Chlorodifluoromethane
Concen: 14.341 ppbv
RT: 1.477 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 51 Resp: 28004

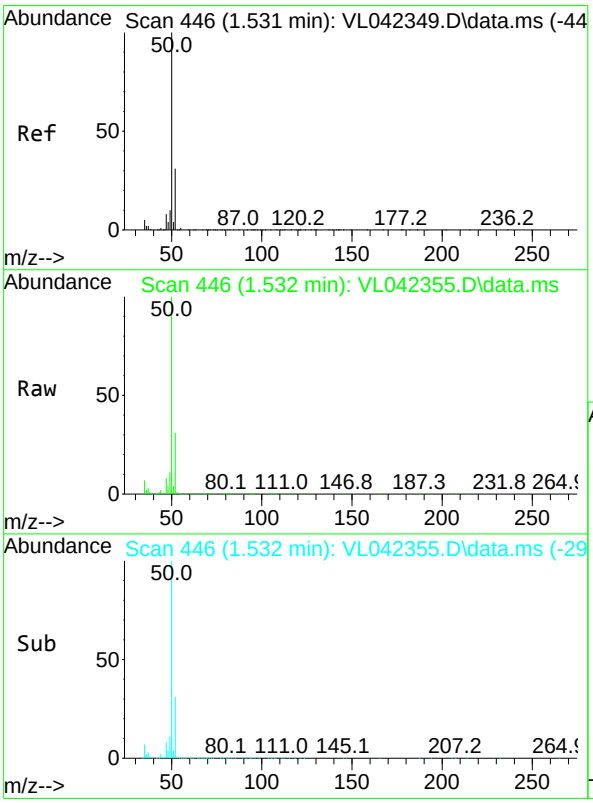
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 19.5 | 16.2 | 24.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

**Manual Integrations**
**APPROVED**

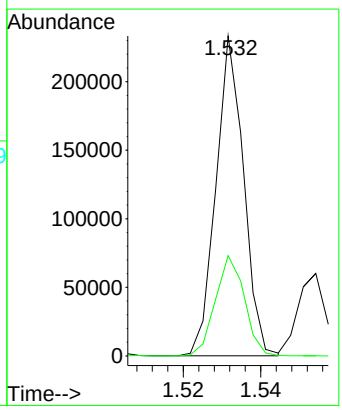
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

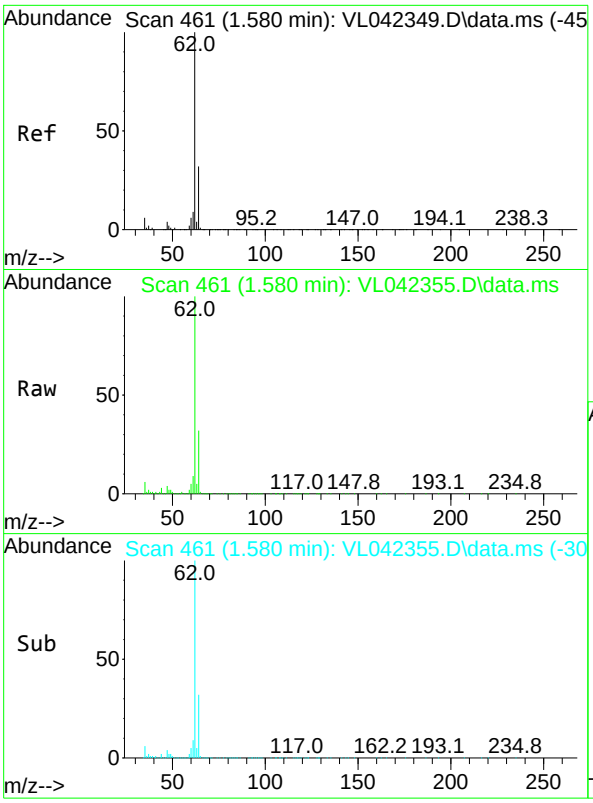



#4
Chloromethane
Concen: 14.266 ppbv
RT: 1.532 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 50 Resp: 115775

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 31.3 | 24.7 | 37.1 |

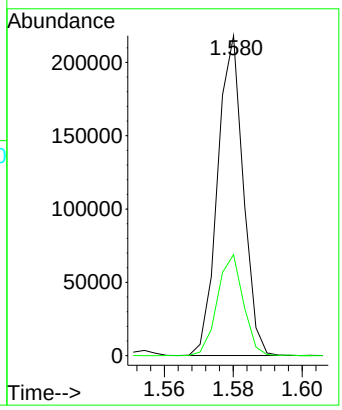





#5
Vinyl Chloride
Concen: 12.752 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 62 Resp: 11265

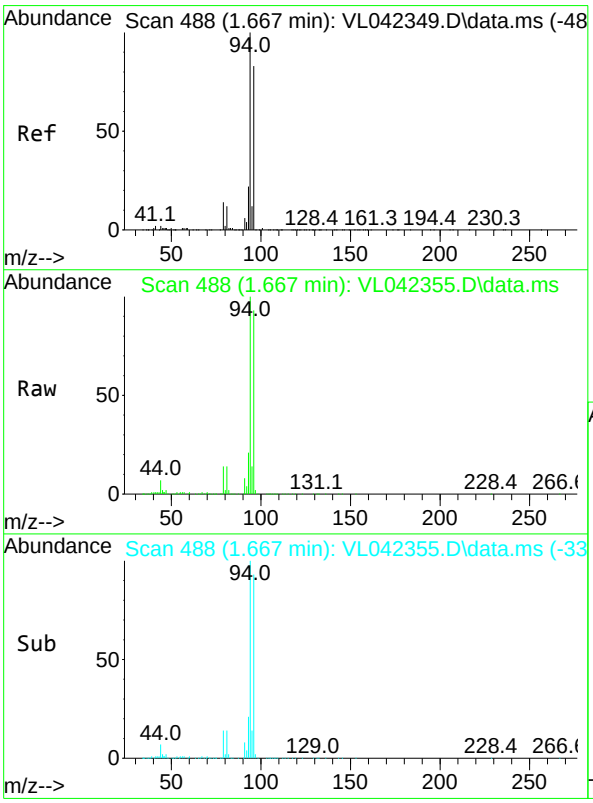
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.6 | 25.4 | 38.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

**Manual Integrations**
**APPROVED**

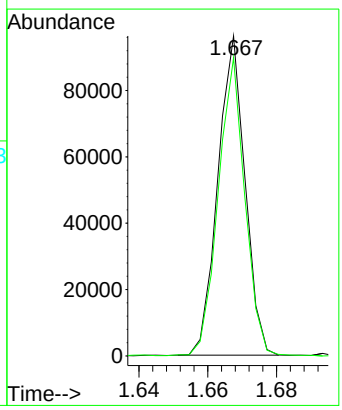
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

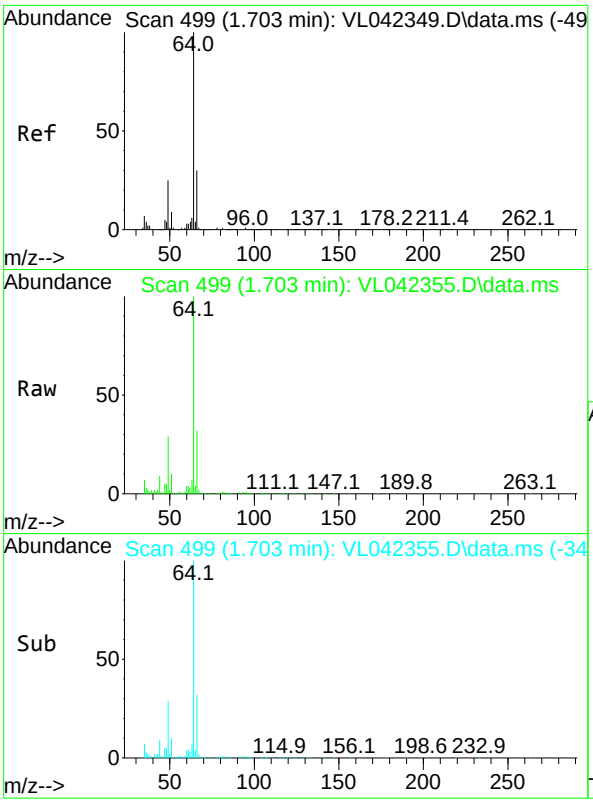



#6
Bromomethane
Concen: 13.800 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 94 Resp: 52805

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 93.1 | 66.2 | 99.2 |

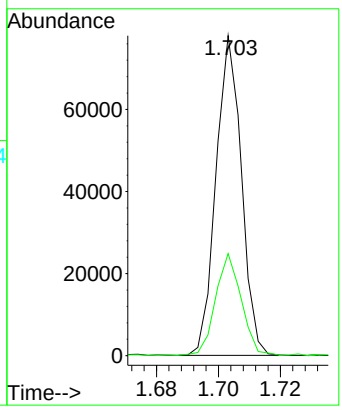





#7
Chloroethane
Concen: 13.881 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 64 Resp: 4434

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 31.9 | 24.6 | 37.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

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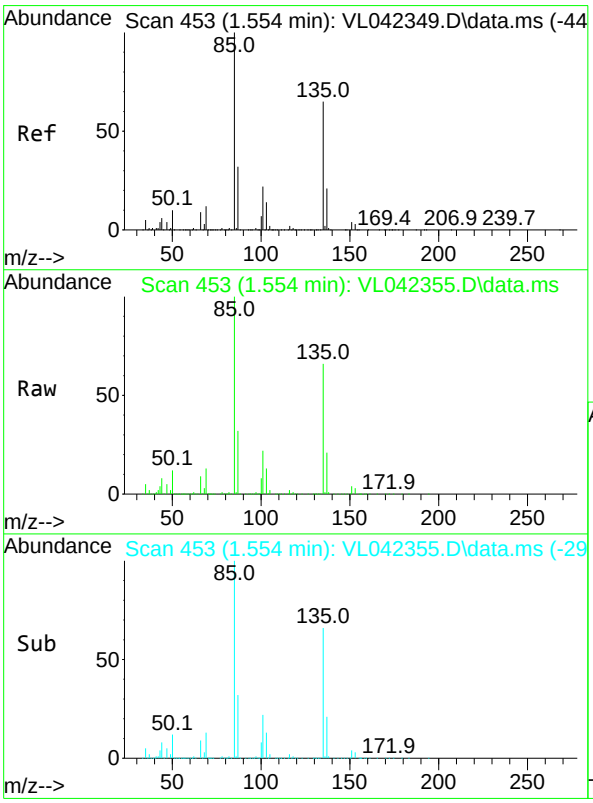
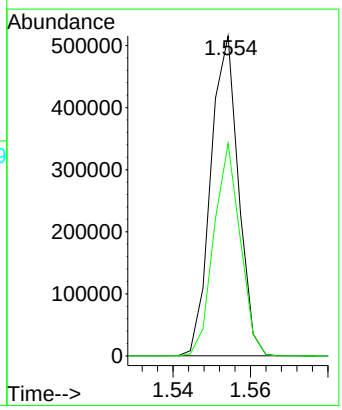
Supervised By :Mahesh Dadoda 04/18/2025

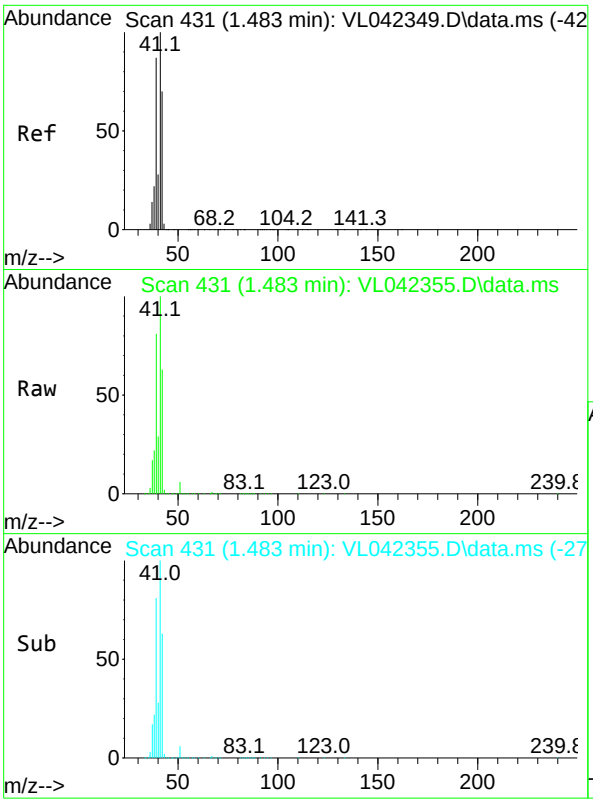



#8
Dichlorotetrafluoroethane
Concen: 14.484 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 85 Resp: 255029

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 63.6 | 52.2 | 78.2 |

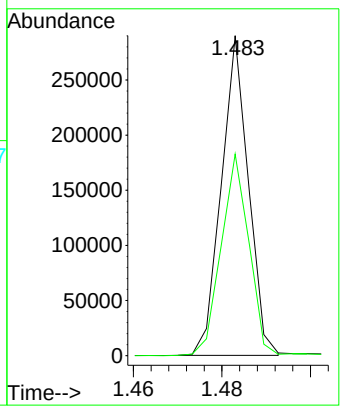





#9
Propene
Concen: 13.842 ppbv
RT: 1.483 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 41 Resp: 12310

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 66.0 | 56.2 | 84.4 |

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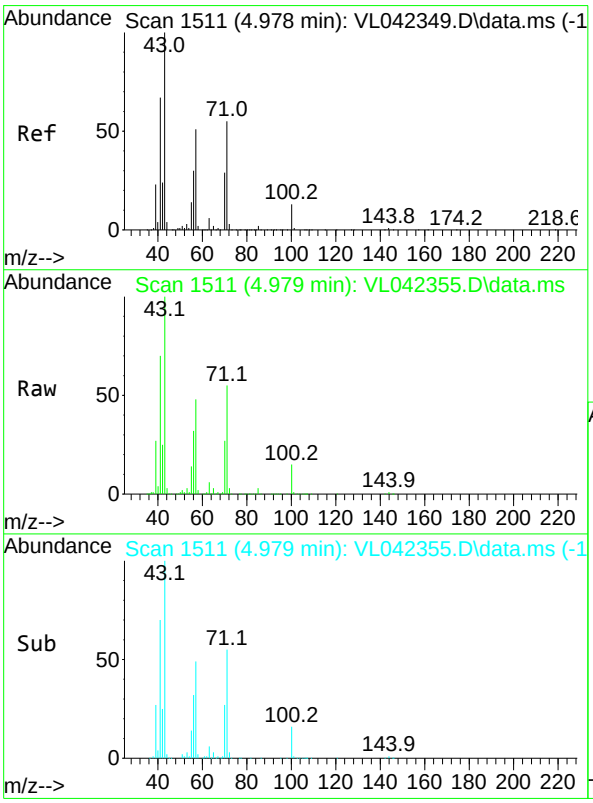
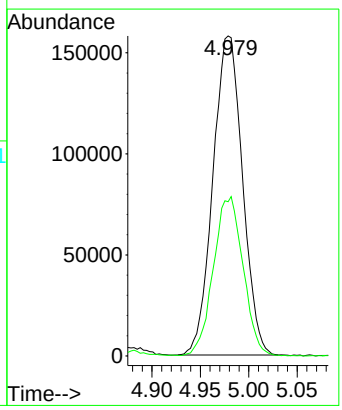
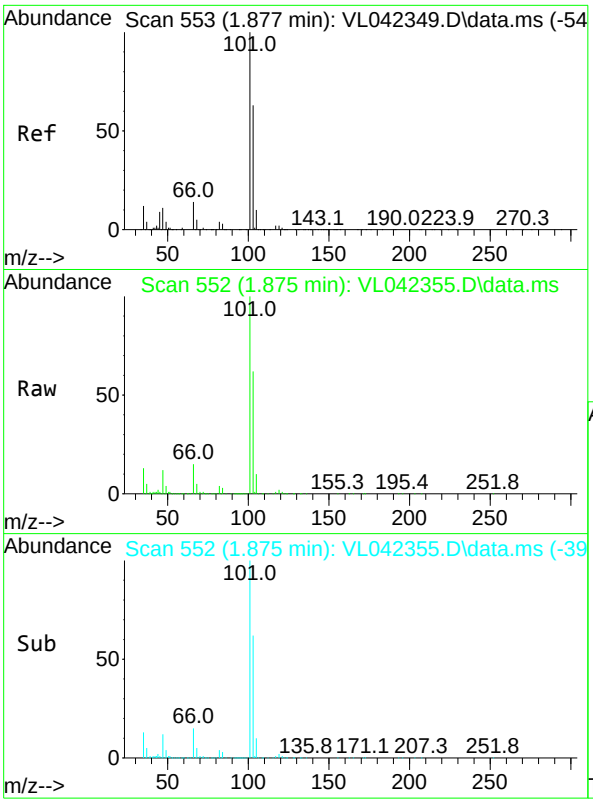



#10
Heptane
Concen: 14.047 ppbv
RT: 4.979 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 43 Resp: 336134

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 50.0 | 39.9 | 59.9 |






#11
Trichlorofluoromethane
Concen: 14.258 ppbv
RT: 1.875 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:101 Resp: 27805

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 61.6 | 50.1 | 75.1 |

**Instrument :**
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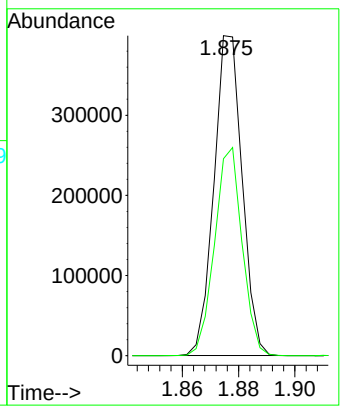
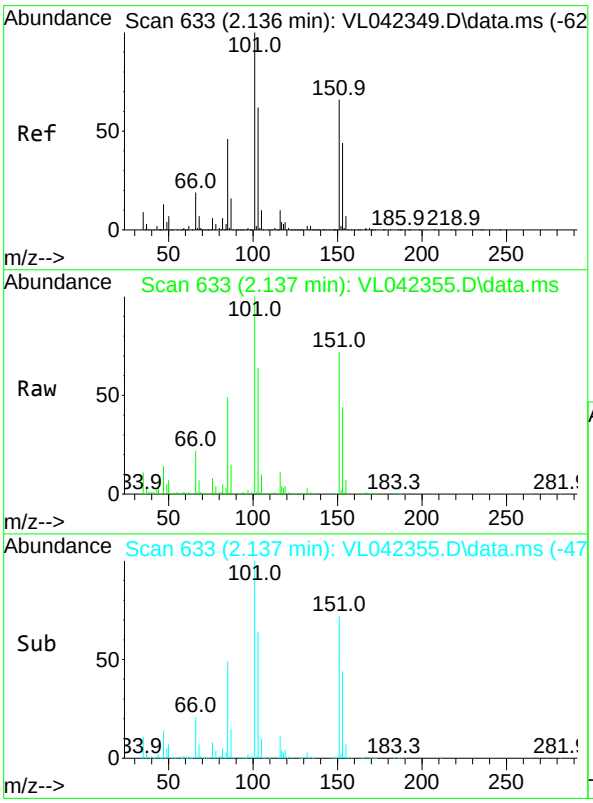
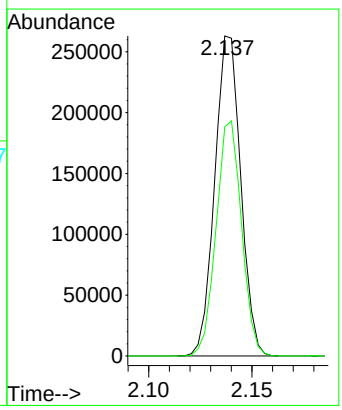


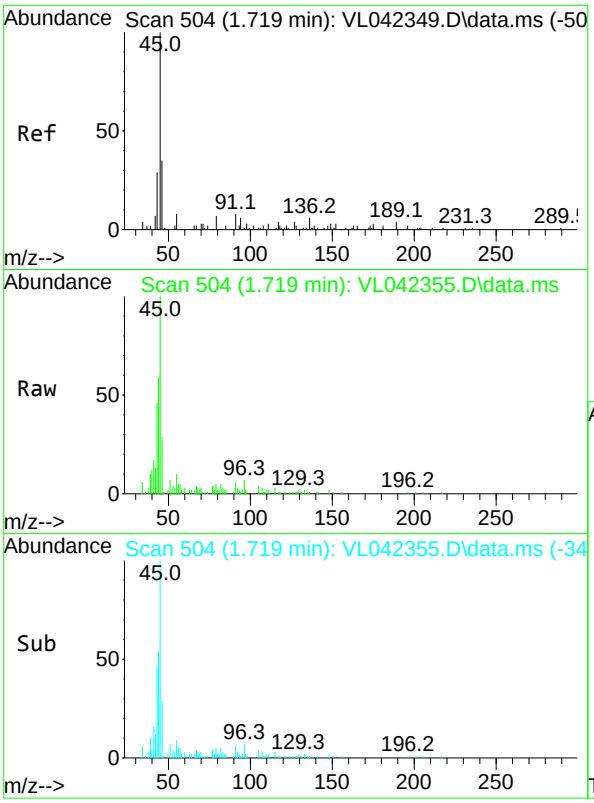




#12
1,1,2-Trichlorotrifluoroethane
Concen: 14.447 ppbv
RT: 2.137 min Scan# 633
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:101 Resp: 230366

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 71.8 | 57.0 | 85.6 |

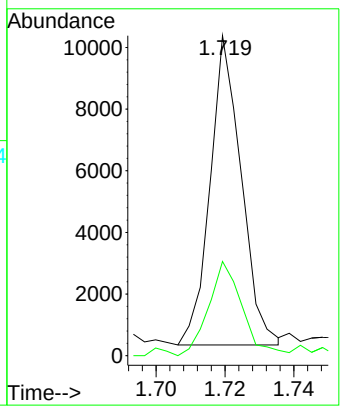





#13
Ethanol
Concen: 8.702 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 45 Resp: 632

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 37.6 | 21.9 | 87.7 |




**Instrument :**
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VSTDICC015

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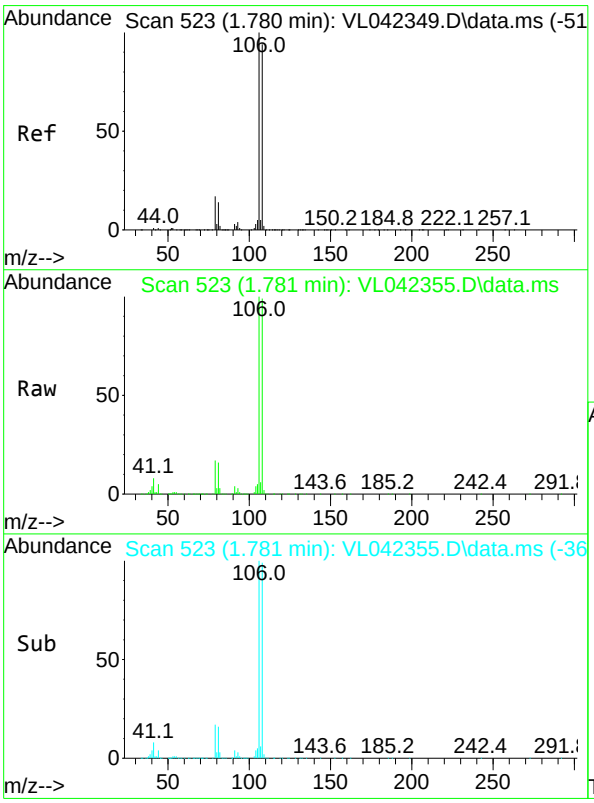
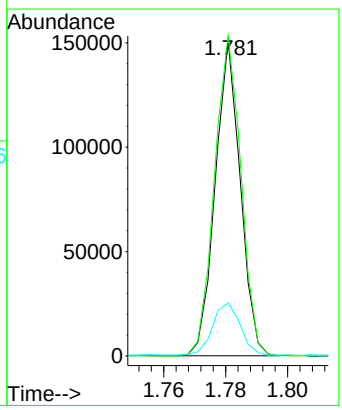
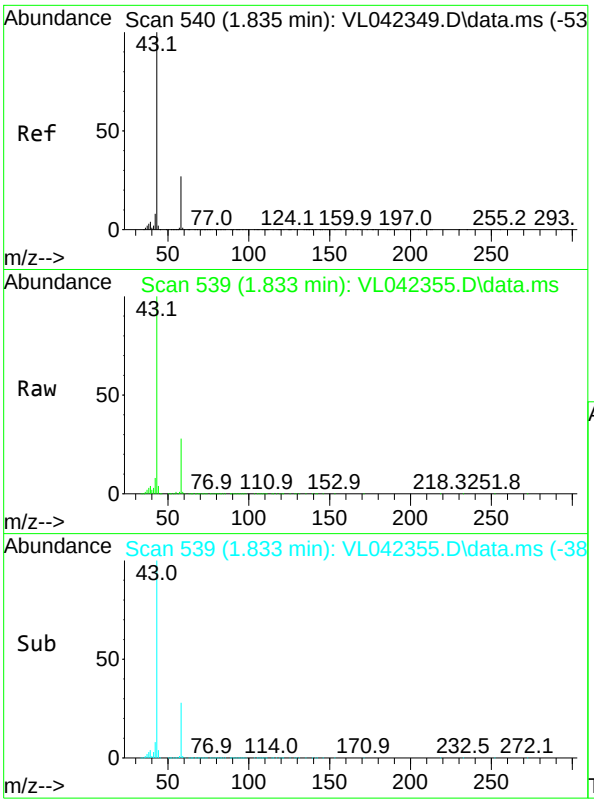



#14
Bromoethene
Concen: 14.117 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:108 Resp: 84851

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 106 | 107.5 | 85.9 | 128.9 |
| 79 | 19.3 | 13.9 | 20.9 |

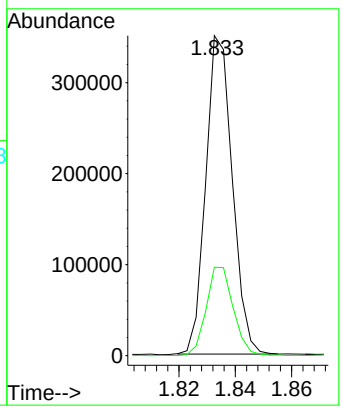





#15
Acetone
Concen: 12.056 ppbv
RT: 1.833 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 43 Resp: 22908

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 28.4 | 22.4 | 33.6 |

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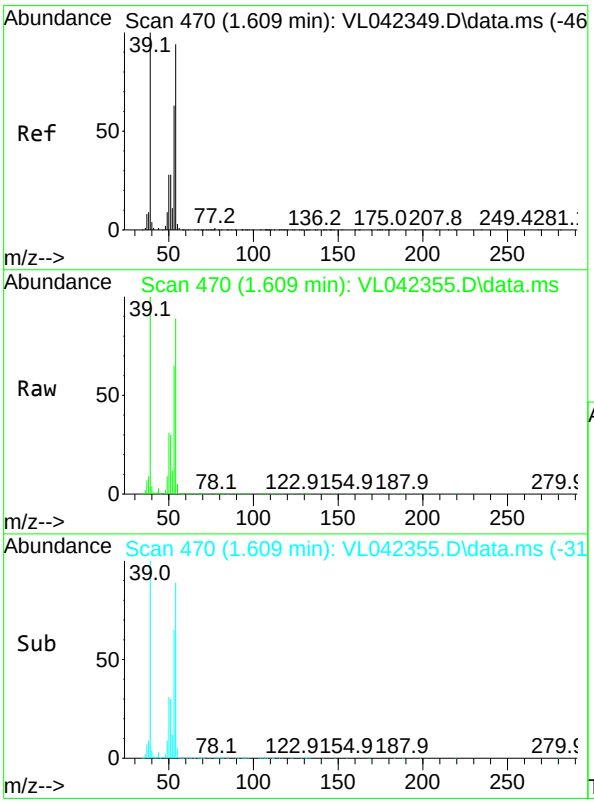
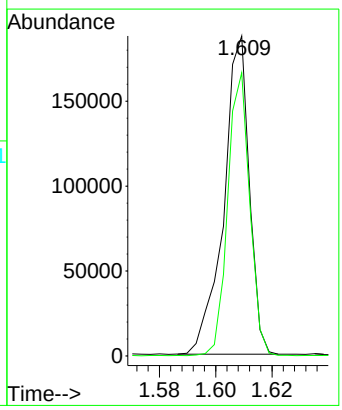
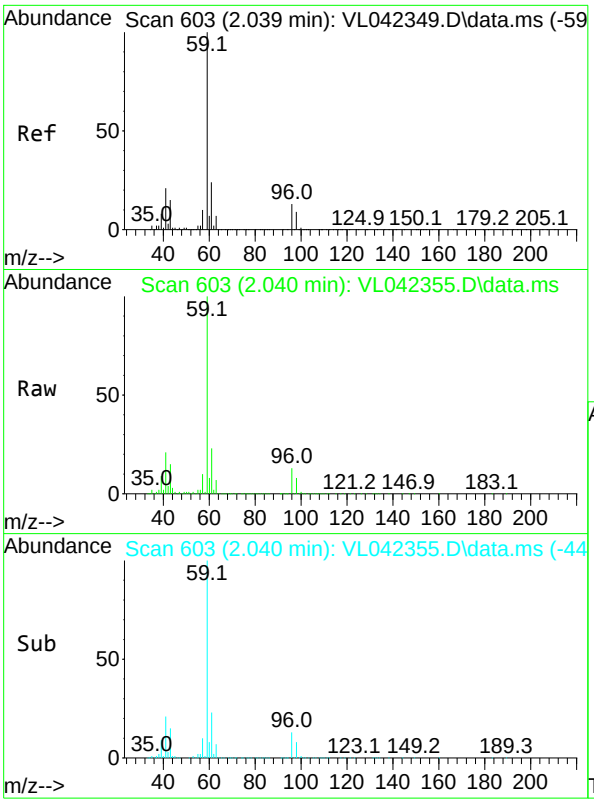



#16
1,3-Butadiene
Concen: 13.224 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 39 Resp: 117997

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 77.2 | 64.9 | 97.3 |

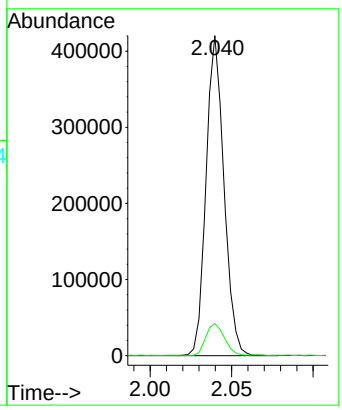





#17
tert-Butyl alcohol
Concen: 13.615 ppbv
RT: 2.040 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 59 Resp: 32060

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.6 | 8.7 | 13.1 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

**Manual Integrations**
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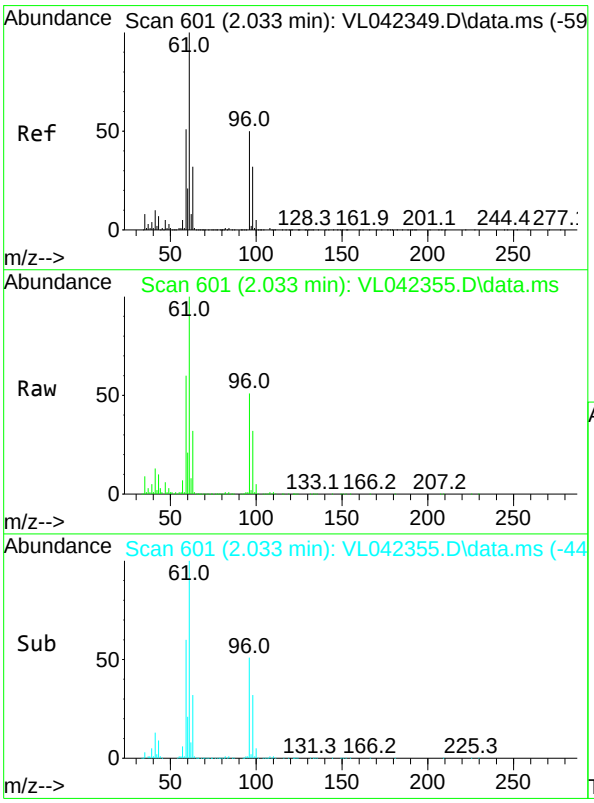
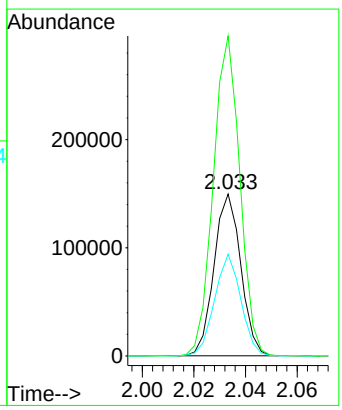
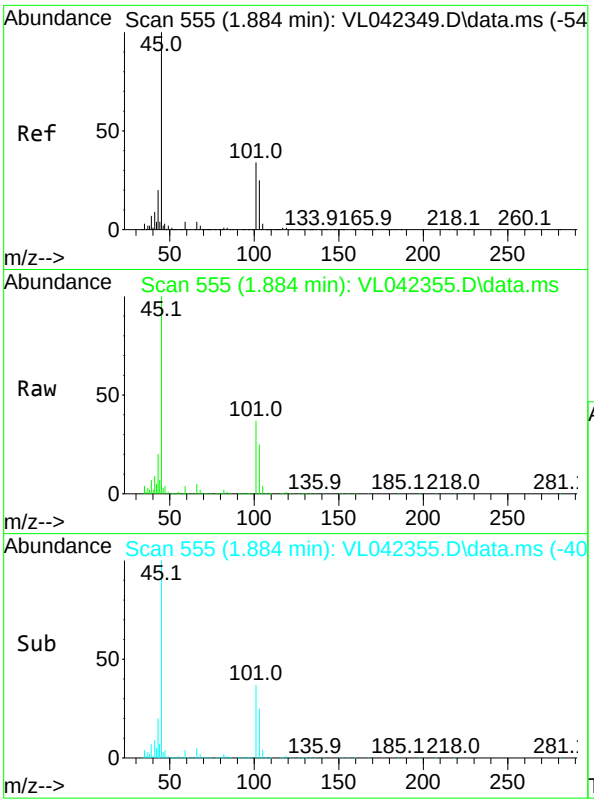



#18
1,1-Dichloroethene
Concen: 14.045 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 96 Resp: 107666

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 197.8 | 160.2 | 240.2 |
| 98 | 62.9 | 51.0 | 76.4 |

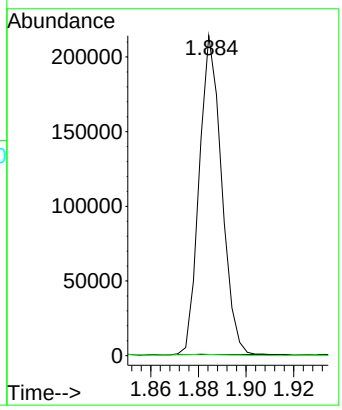





#19
Isopropyl Alcohol
Concen: 13.169 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 45 Resp: 13900

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 46.9 | 34.5 | 51.7 |

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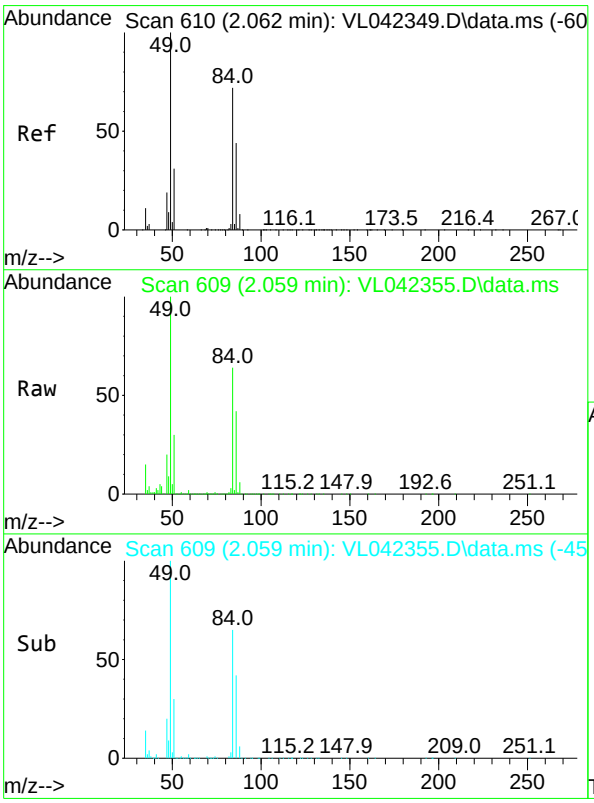
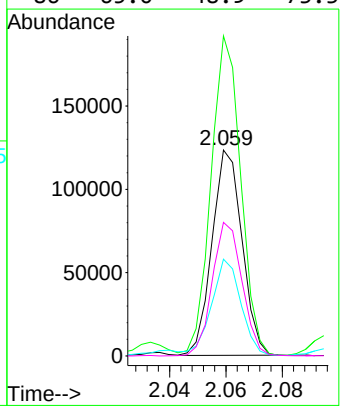
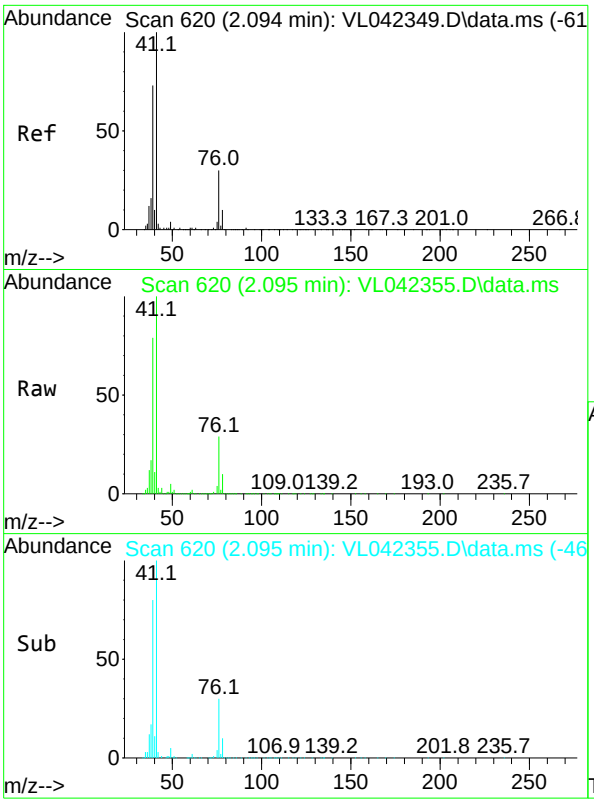



#20
Methylene Chloride
Concen: 12.241 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 84 Resp: 91093

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 155.7 | 111.6 | 167.4 |
| 51 | 46.8 | 35.1 | 52.7 |
| 86 | 65.0 | 48.9 | 73.3 |






#21
Allyl Chloride
Concen: 14.329 ppbv
RT: 2.095 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 41 Resp: 18799

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 29.3 | 24.8 | 37.2 |
| 39 | 75.2 | 60.6 | 90.8 |

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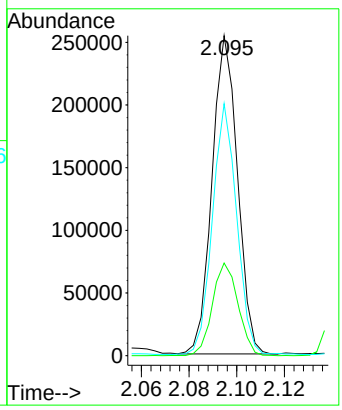
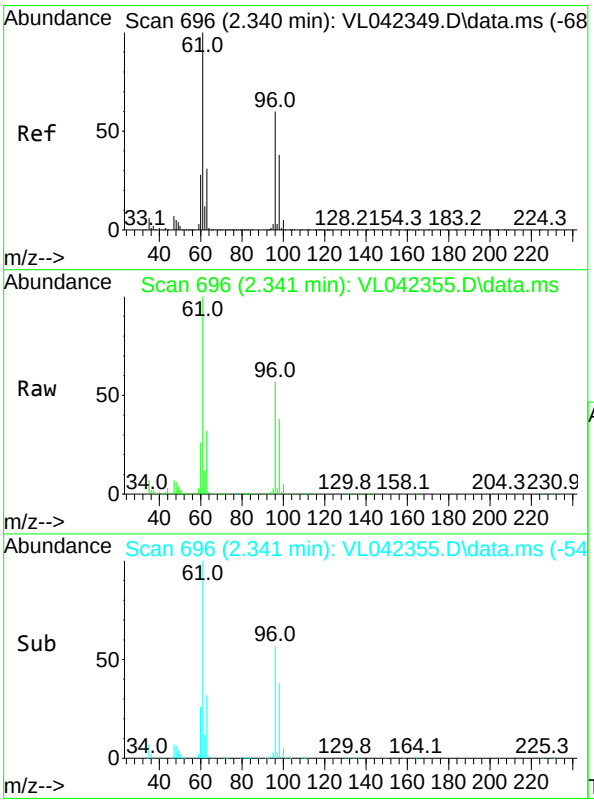
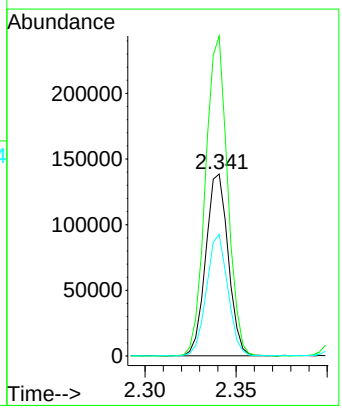


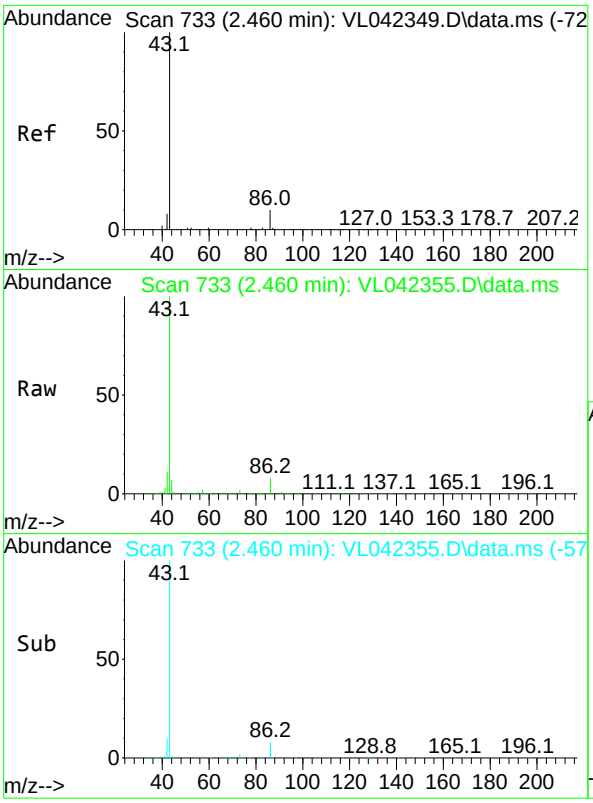




#22
trans-1,2-Dichloroethene
Concen: 13.970 ppbv
RT: 2.341 min Scan# 696
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 96 Resp: 118492

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 176.1 | 133.7 | 200.5 |
| 98 | 66.8 | 50.3 | 75.5 |

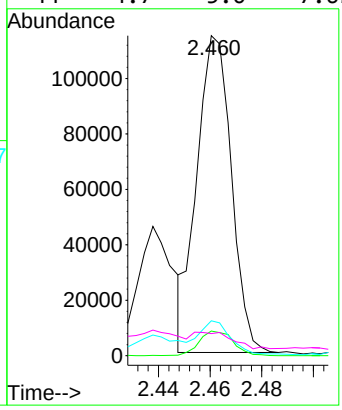





#23
Vinyl Acetate
Concen: 13.799 ppbv
RT: 2.460 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 43 Resp: 10613

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 7.8 | 6.5 | 9.7 |
| 42 | 10.4 | 7.8 | 11.8 |
| 44 | 4.7 | 5.0 | 7.6# |

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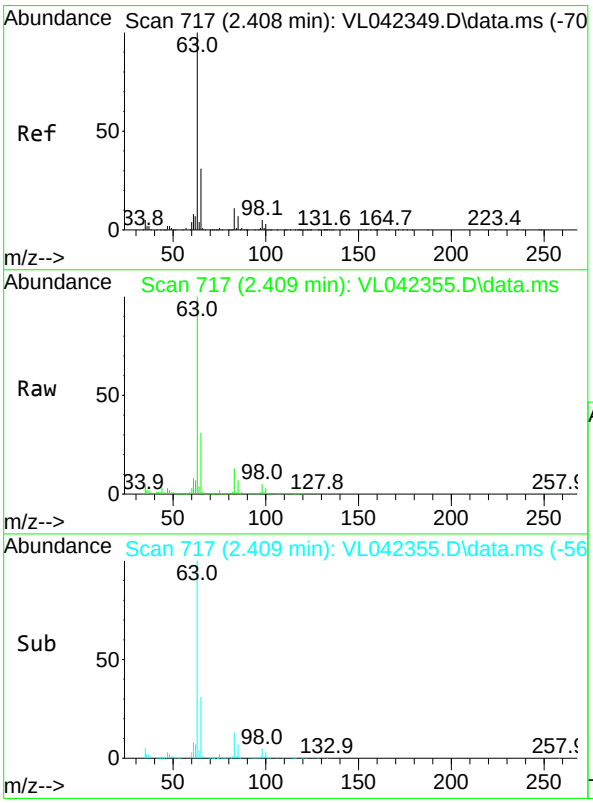
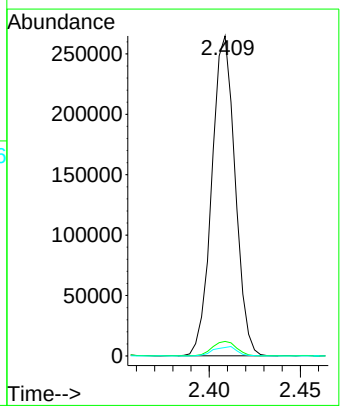
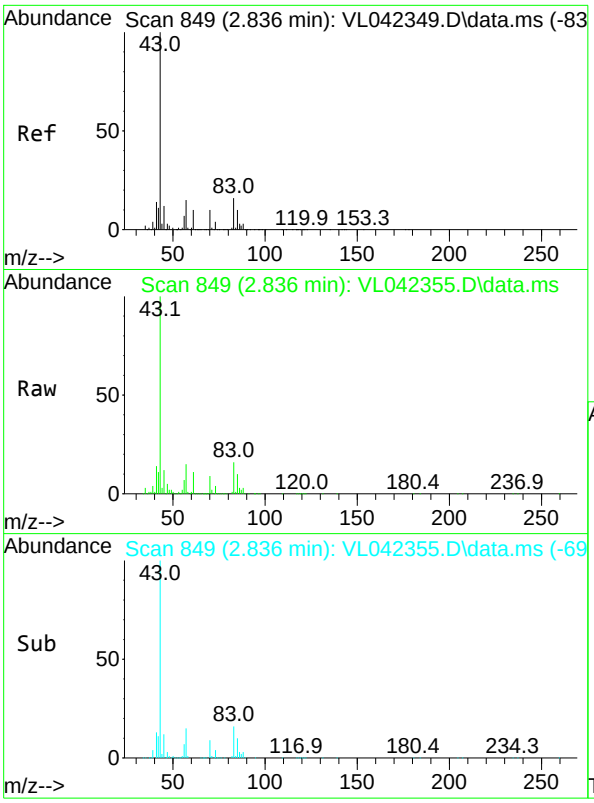



#24
1,1-Dichloroethane
Concen: 14.615 ppbv
RT: 2.409 min Scan# 717
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 63 Resp: 235466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 4.5 | 2.3 | 6.8 |
| 100 | 2.6 | 1.6 | 4.8 |

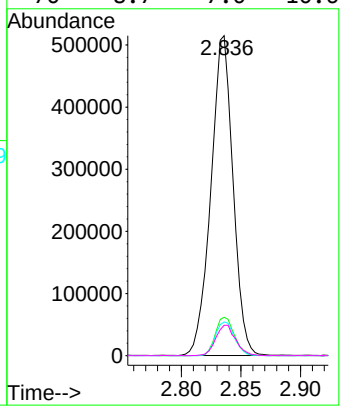





#25
Ethyl Acetate
Concen: 14.166 ppbv
RT: 2.836 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 43 Resp: 66364

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 10.4 | 8.3 | 12.5 |
| 61 | 9.2 | 7.3 | 10.9 |
| 70 | 8.7 | 7.0 | 10.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
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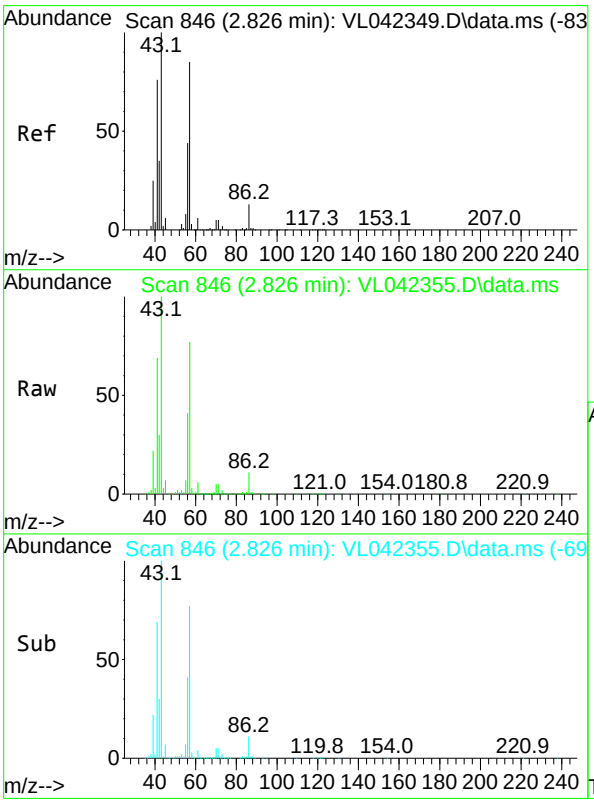
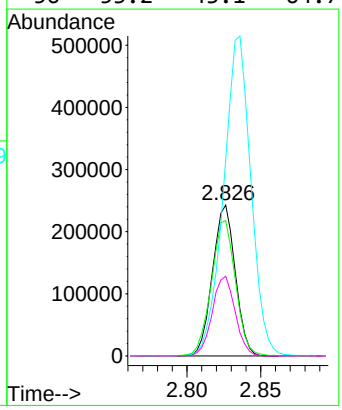
Supervised By :Mahesh Dadoda 04/18/2025

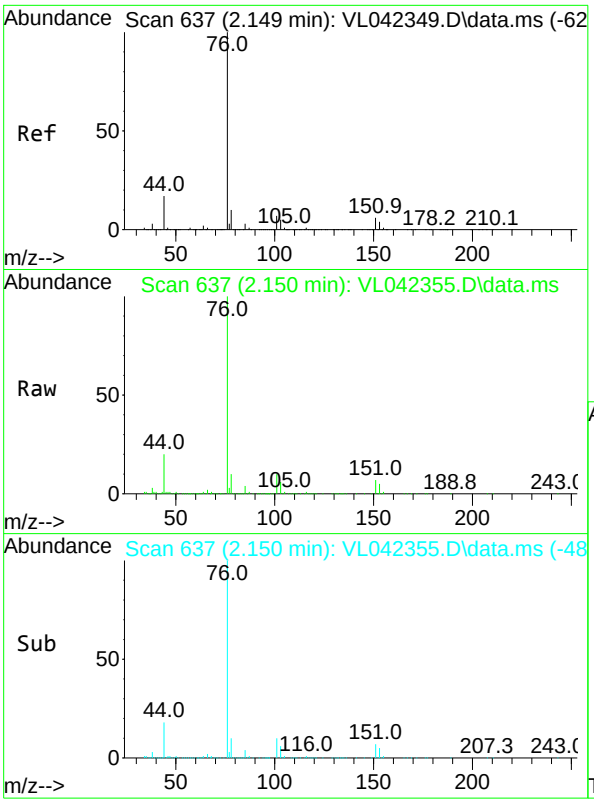



#26
Hexane
Concen: 13.765 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 57 Resp: 260975

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 95.3 | 77.9 | 116.9 |
| 43 | 254.5 | 208.4 | 312.6 |
| 56 | 53.2 | 43.1 | 64.7 |

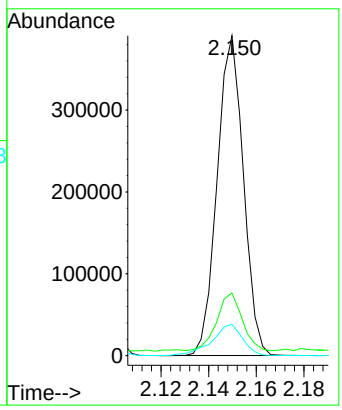





#27
Carbon Disulfide
Concen: 14.734 ppbv
RT: 2.150 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 76 Resp: 29909

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 17.3 | 15.5 | 23.3 |
| 78 | 11.4 | 9.3 | 13.9 |

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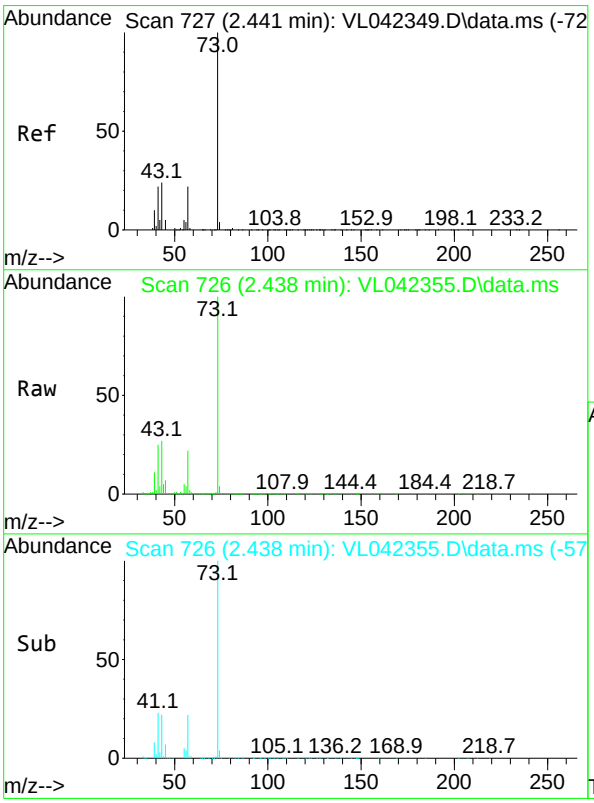
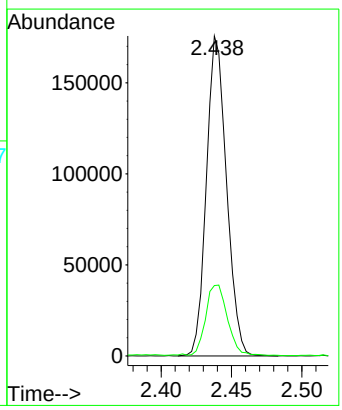
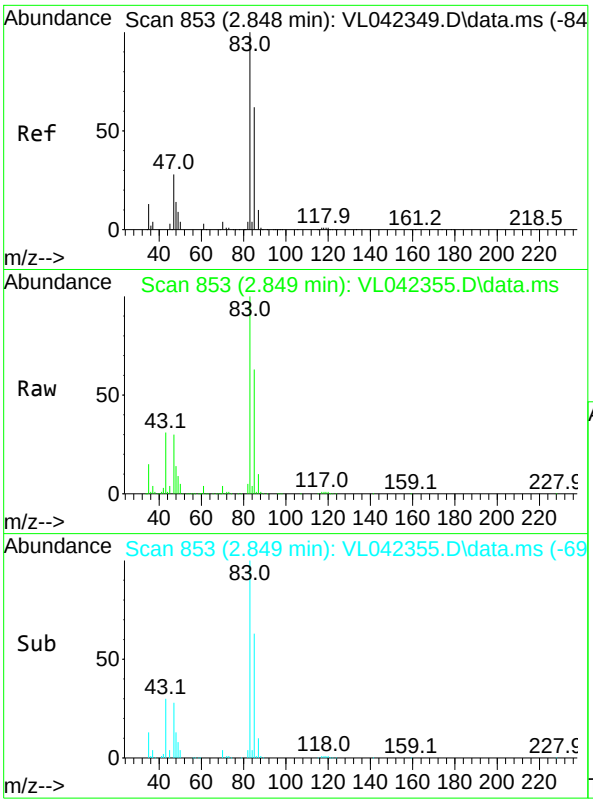



#28
Methyl tert-Butyl Ether
Concen: 14.076 ppbv
RT: 2.438 min Scan# 726
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 73 Resp: 174855

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 24.3 | 21.3 | 31.9 |

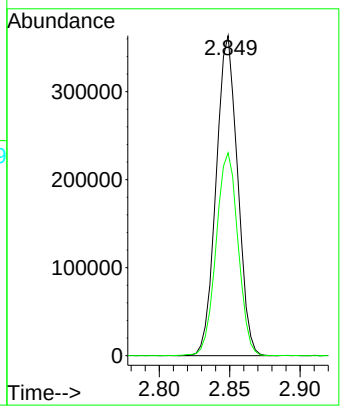





#29
Chloroform
Concen: 14.393 ppbv
RT: 2.849 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 83 Resp: 38568

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.4 | 50.0 | 75.0 |

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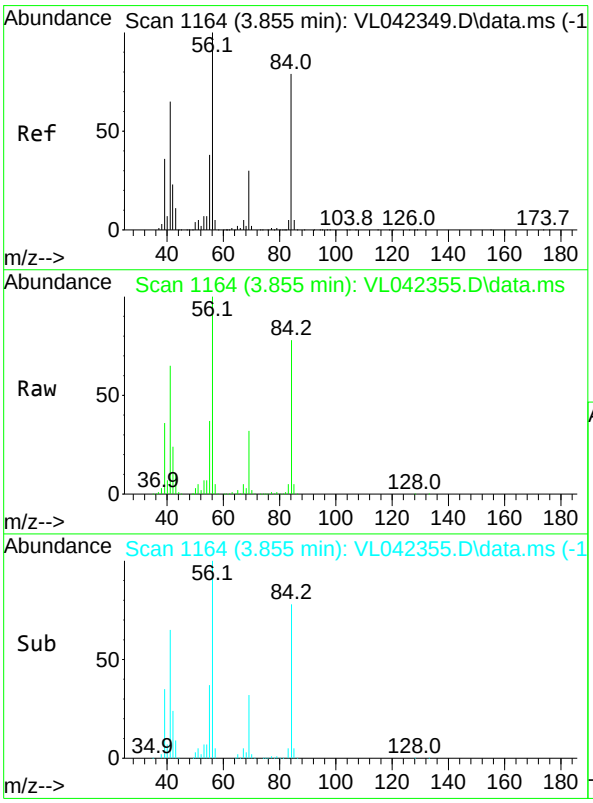
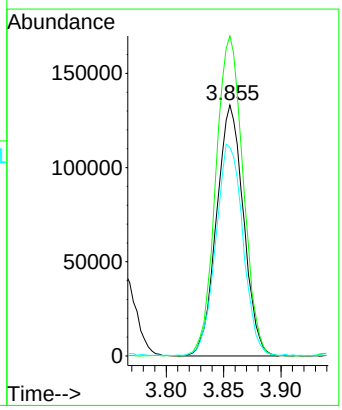
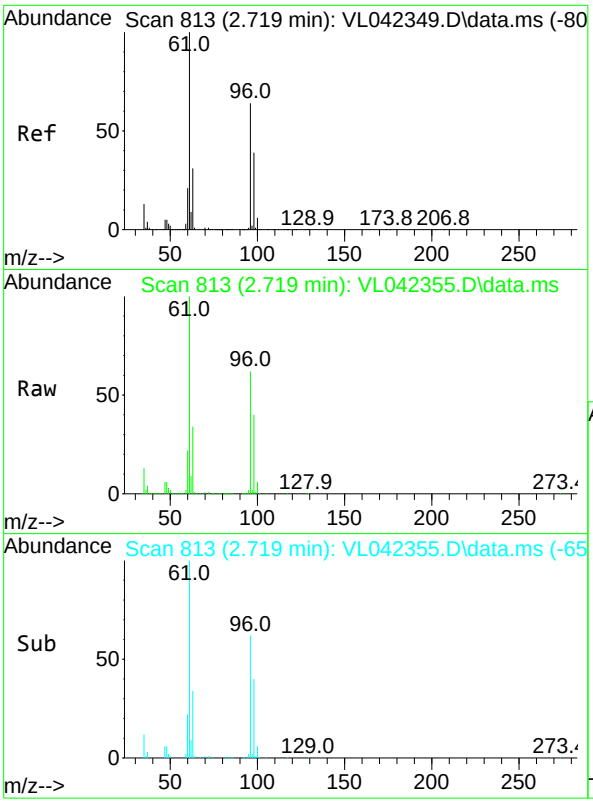



#30
Cyclohexane
Concen: 14.238 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 84 Resp: 217375

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 129.4 | 101.0 | 151.4 |
| 41 | 85.3 | 67.4 | 101.0 |

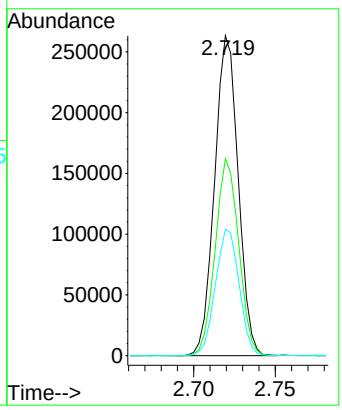





#31
cis-1,2-Dichloroethene
Concen: 14.700 ppbv
RT: 2.719 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 61 Resp: 26497

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 61.6 | 50.8 | 76.2 |
| 98 | 39.5 | 30.9 | 46.3 |

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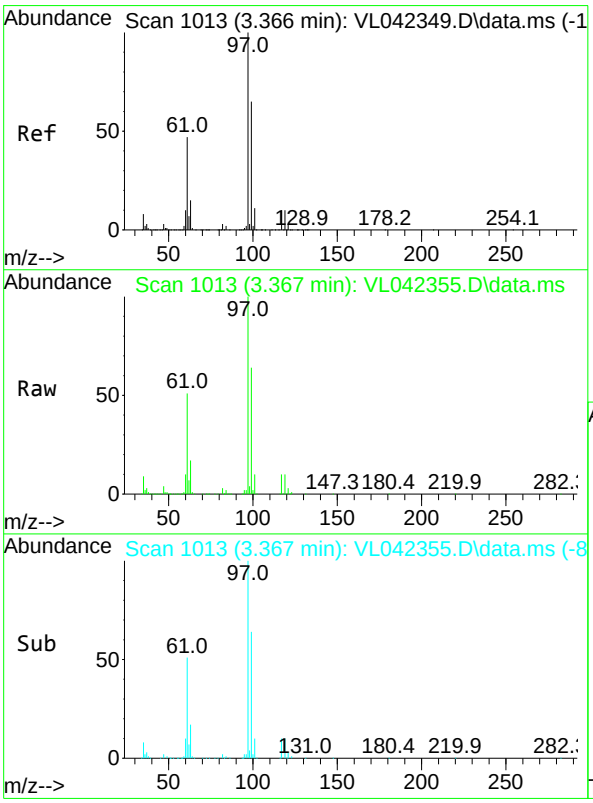
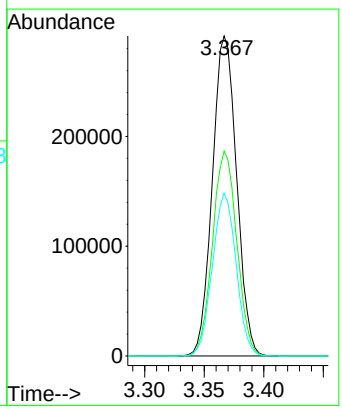
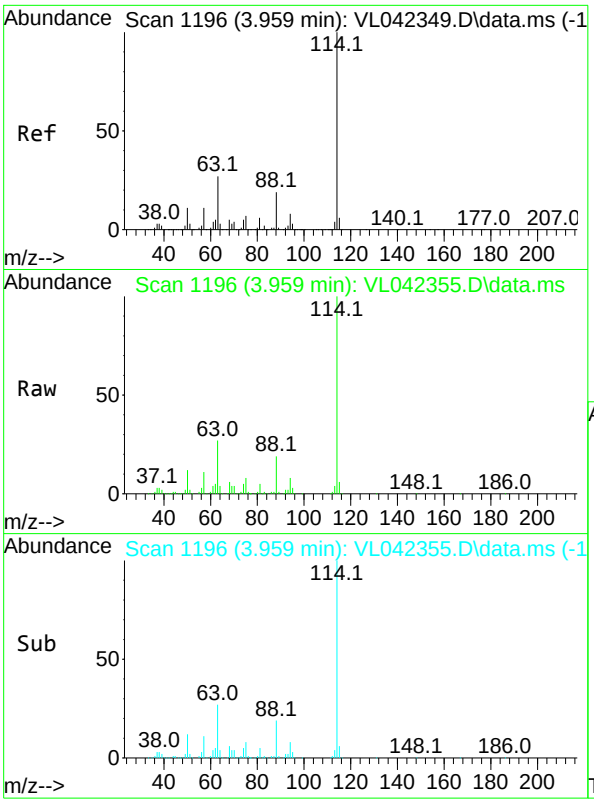



#32
1,1,1-Trichloroethane
Concen: 14.357 ppbv
RT: 3.367 min Scan# 1013
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 97 Resp: 412537

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.1 | 51.0 | 76.4 |
| 61 | 49.8 | 38.8 | 58.2 |

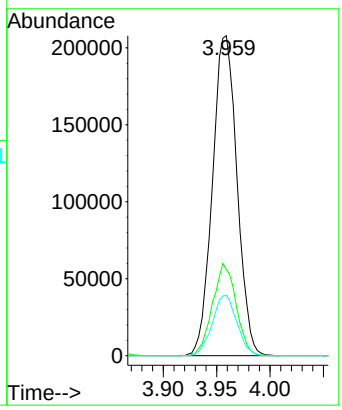





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:114 Resp: 33208

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 27.7 | 21.8 | 32.6 |
| 88 | 18.9 | 15.5 | 23.3 |

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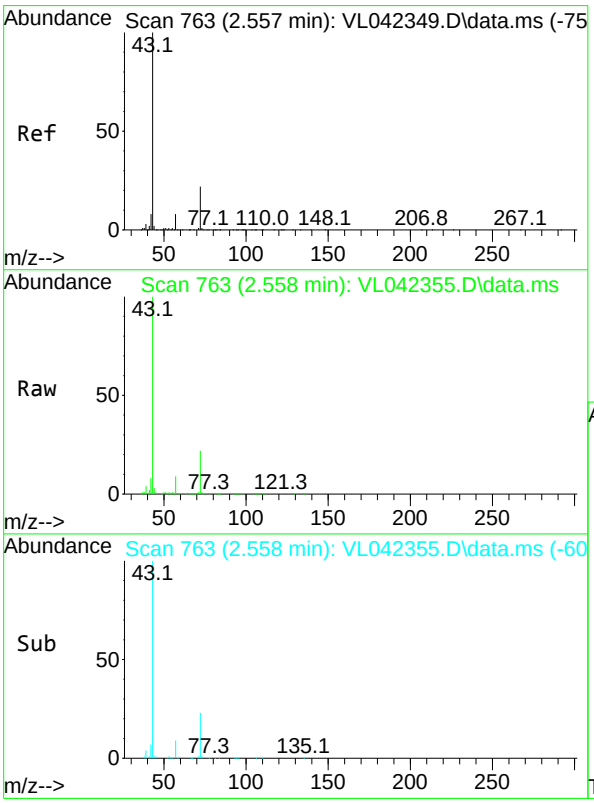
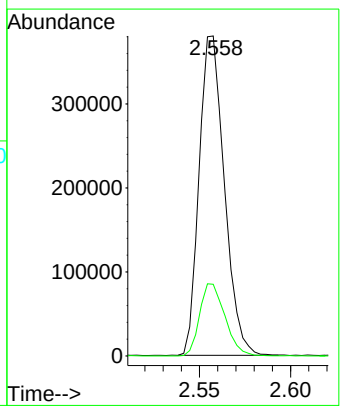
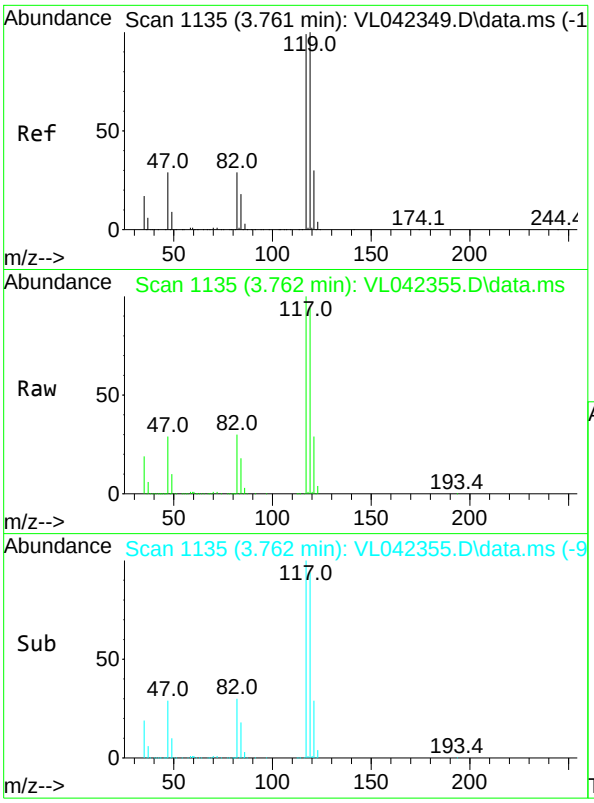



#34
2-Butanone
Concen: 13.986 ppbv
RT: 2.558 min Scan# 763
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 43 Resp: 367315

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 22.7 | 18.2 | 27.2 |

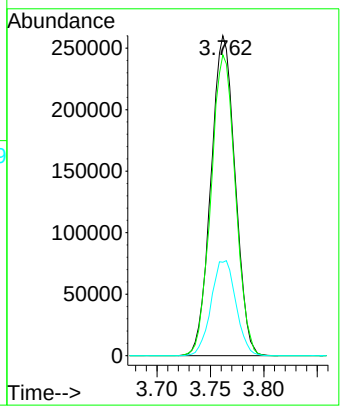





#35
Carbon Tetrachloride
Concen: 13.639 ppbv
RT: 3.762 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:117 Resp: 40991

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 94.0 | 80.5 | 120.7 |
| 121 | 29.2 | 24.2 | 36.2 |

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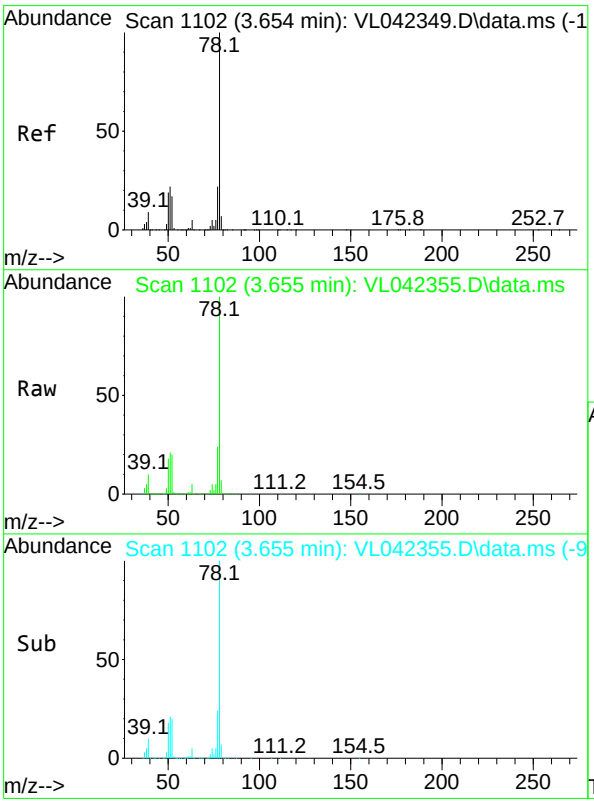
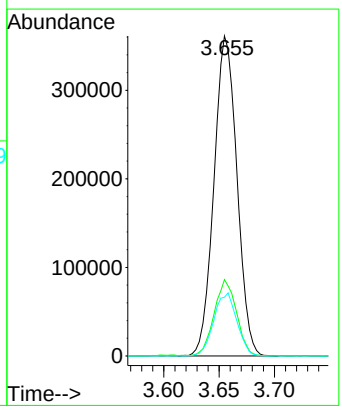
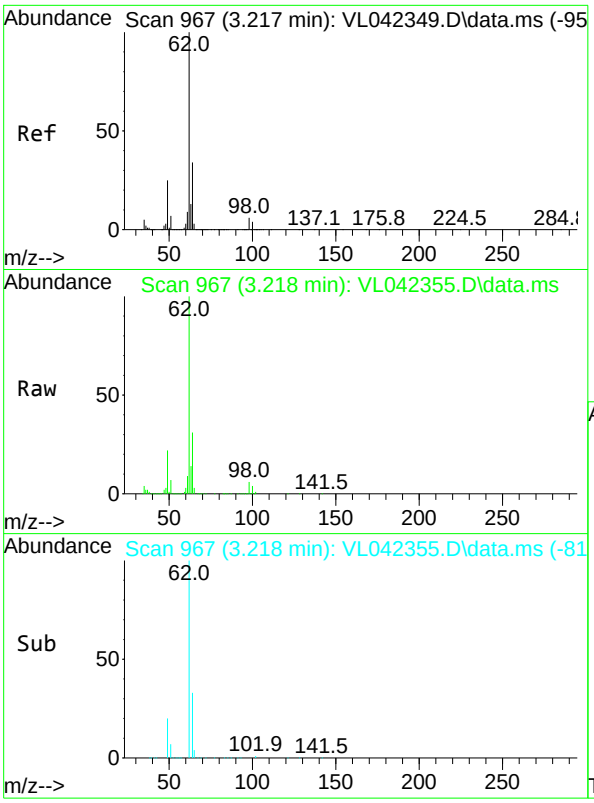



#36
Benzene
Concen: 14.578 ppbv
RT: 3.655 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 78 Resp: 522156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.8 | 17.4 | 26.0 |
| 50 | 18.3 | 15.5 | 23.3 |

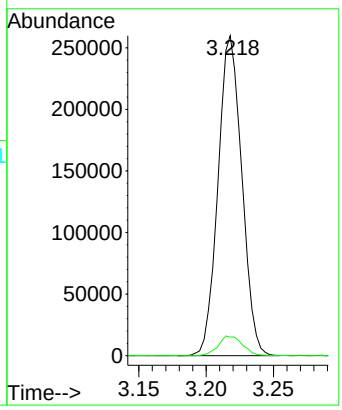





#37
1,2-Dichloroethane
Concen: 14.863 ppbv
RT: 3.218 min Scan# 9
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 62 Resp: 31951

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 6.3 | 5.1 | 7.7 |

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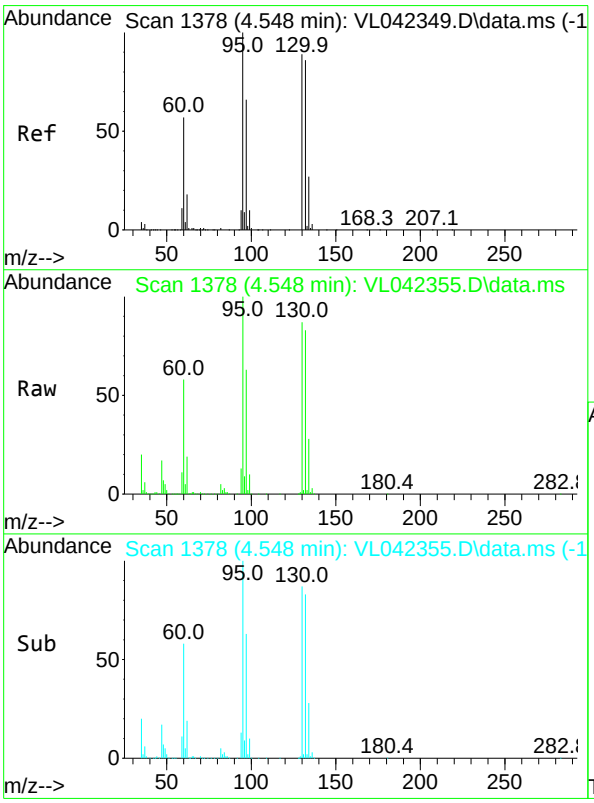
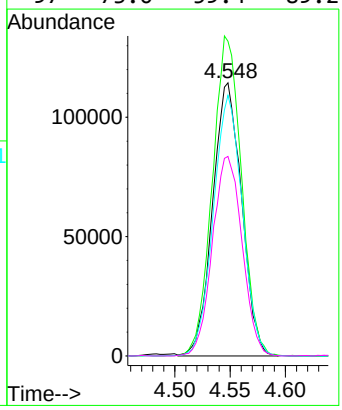
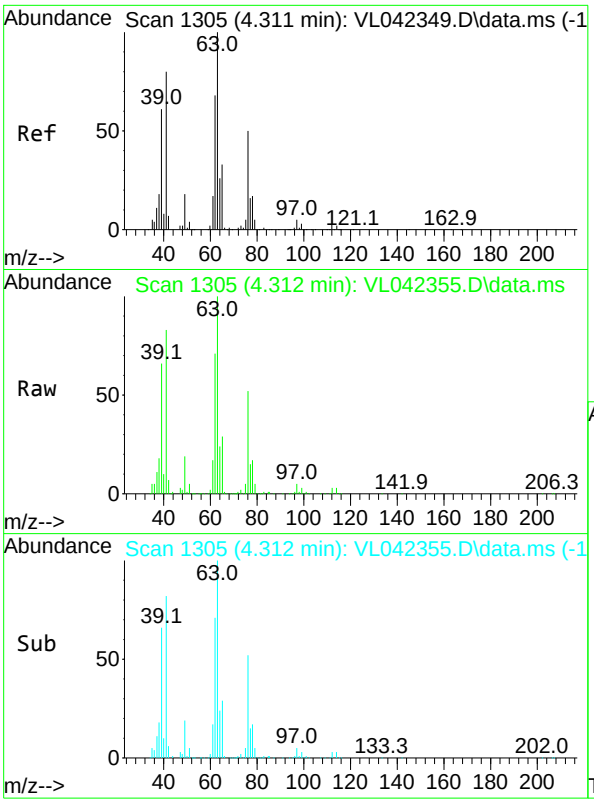



#38
Trichloroethene
Concen: 13.278 ppbv
RT: 4.548 min Scan# 1378
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:130 Resp: 208508

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 115.0 | 89.8 | 134.6 |
| 132 | 95.3 | 77.7 | 116.5 |
| 97 | 73.0 | 59.4 | 89.2 |

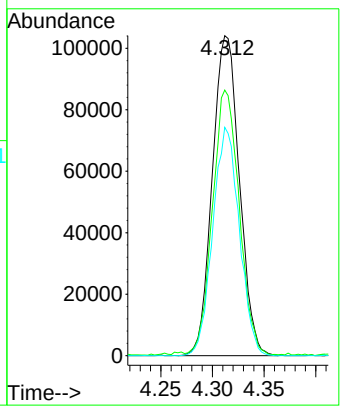





#39
1,2-Dichloropropane
Concen: 14.201 ppbv
RT: 4.312 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 63 Resp: 18969

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 82.7 | 64.2 | 96.2 |
| 62 | 71.4 | 54.3 | 81.5 |

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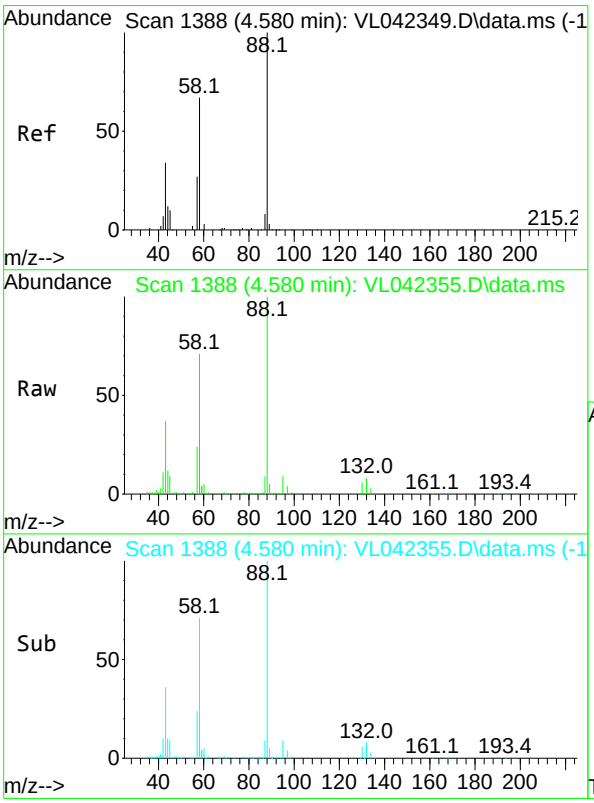
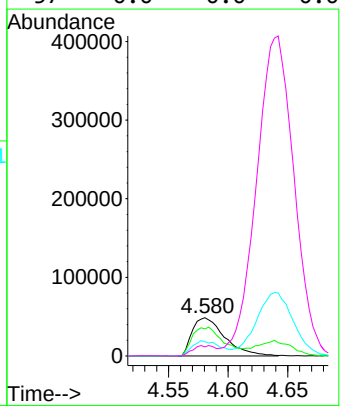
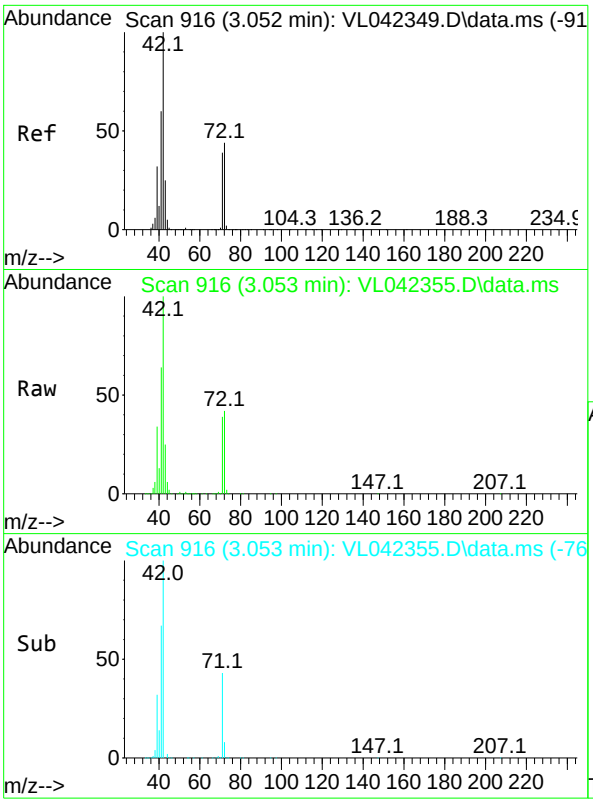



#40
1,4-Dioxane
Concen: 12.733 ppbv
RT: 4.580 min Scan# 1388
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 88 Resp: 92114

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 75.2 | 61.4 | 92.0 |
| 43 | 36.8 | 23.2 | 34.8# |
| 57 | 0.0 | 0.0 | 0.0 |

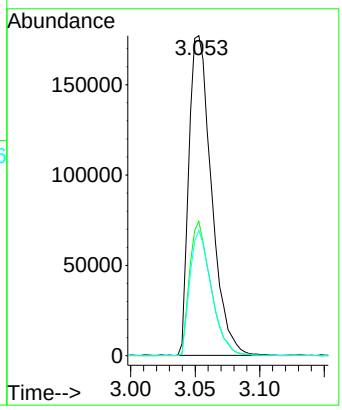





#41
Tetrahydrofuran
Concen: 14.166 ppbv
RT: 3.053 min Scan# 9
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 42 Resp: 21494

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 39.7 | 32.3 | 48.5 |
| 71 | 37.9 | 31.4 | 47.2 |

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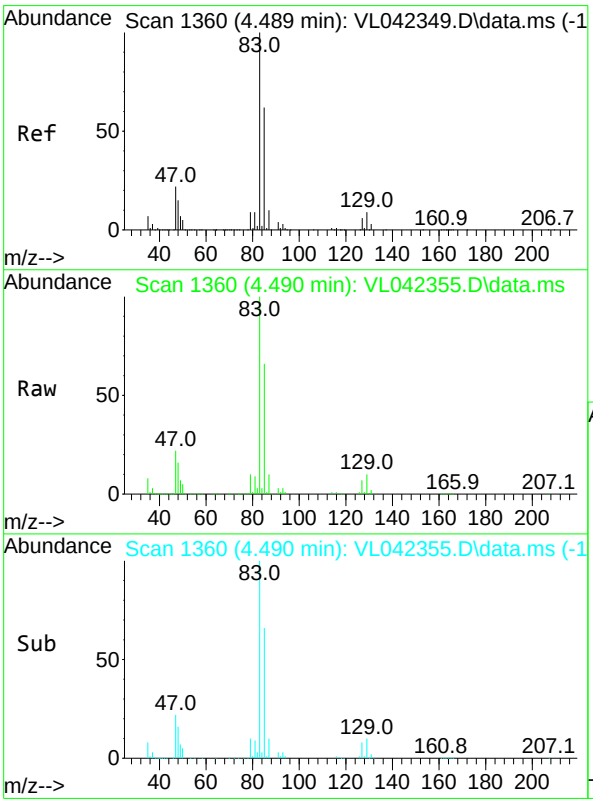
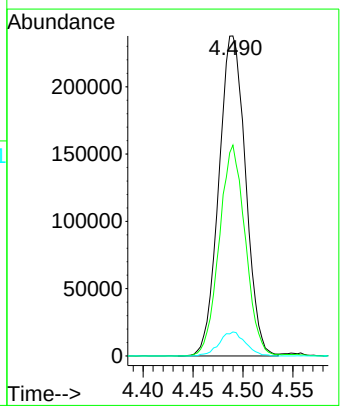
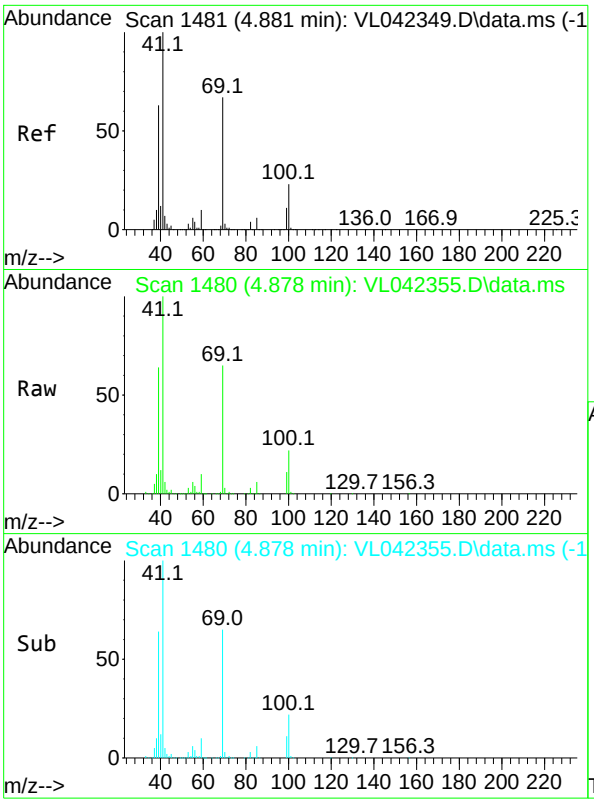



#42
Bromodichloromethane
Concen: 14.798 ppbv
RT: 4.490 min Scan# 1360
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 83 Resp: 442735

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.9 | 49.7 | 74.5 |
| 127 | 7.5 | 5.1 | 7.7 |

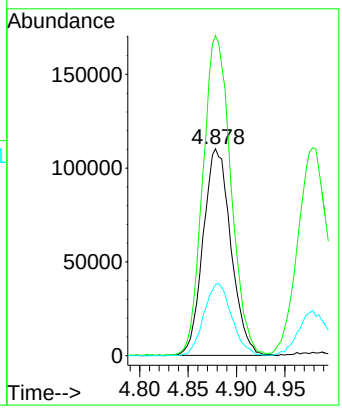





#43
Methyl Methacrylate
Concen: 13.670 ppbv
RT: 4.878 min Scan# 14
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 69 Resp: 21975

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 156.6 | 118.6 | 177.8 |
| 100 | 35.2 | 28.2 | 42.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

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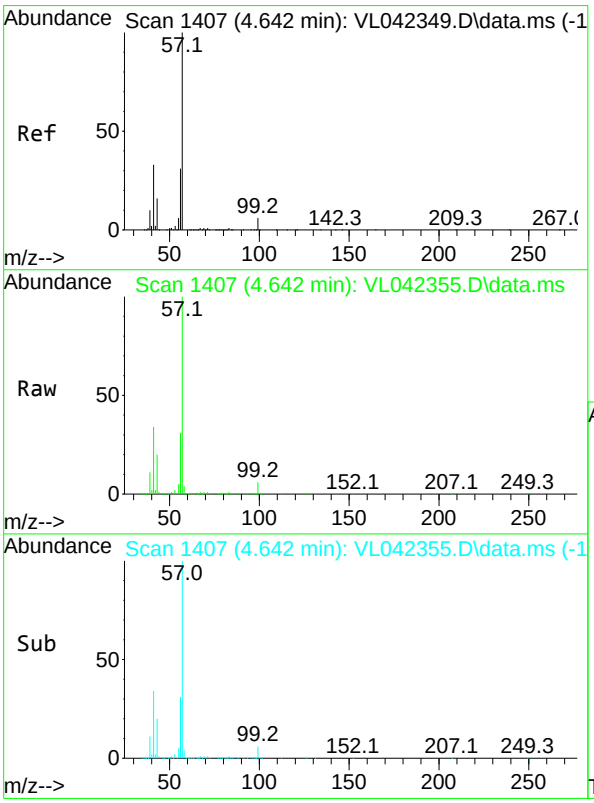
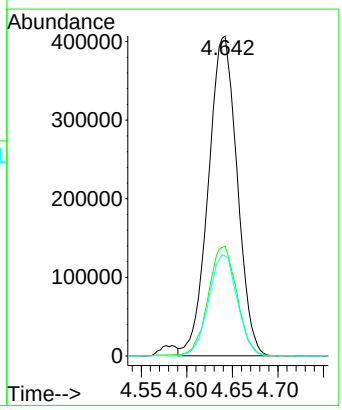
Supervised By :Mahesh Dadoda 04/18/2025

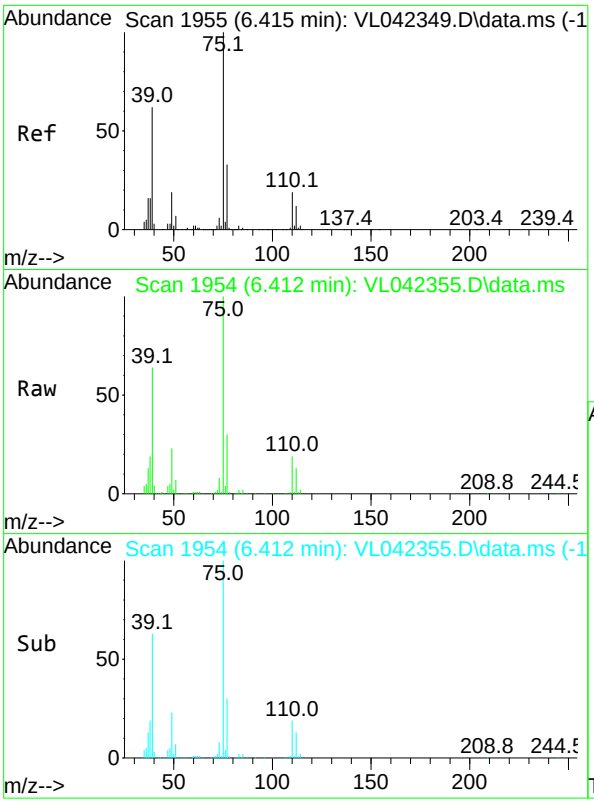



#44
2,2,4-Trimethylpentane
Concen: 14.425 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 57 Resp: 893529

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 34.4 | 27.2 | 40.8 |
| 56 | 31.6 | 25.7 | 38.5 |

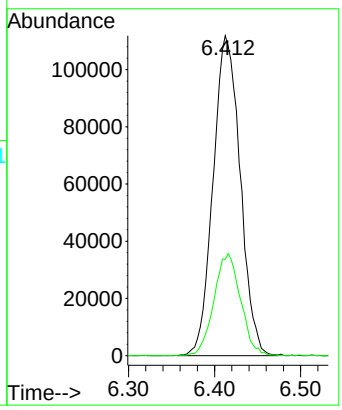





#45
t-1,3-Dichloropropene
Concen: 14.810 ppbv
RT: 6.412 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 75 Resp: 24447

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.1 | 27.0 | 40.6 |

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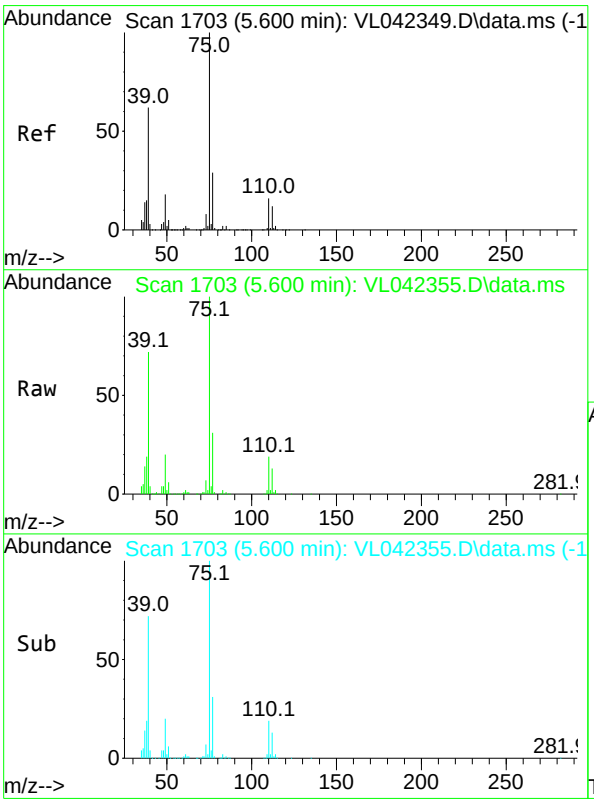
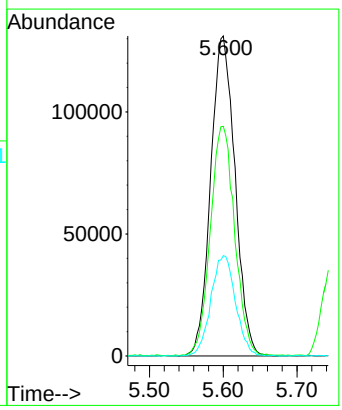
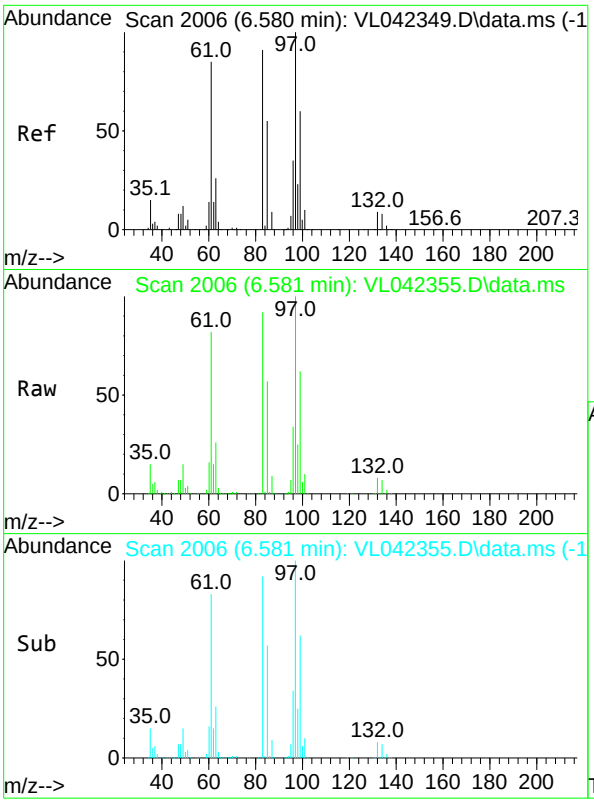



#46
cis-1,3-Dichloropropene
Concen: 14.878 ppbv
RT: 5.600 min Scan# 1703
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 75 Resp: 300145

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 39 | 71.6 | 50.0 | 75.0 |
| 77 | 31.3 | 23.0 | 34.6 |

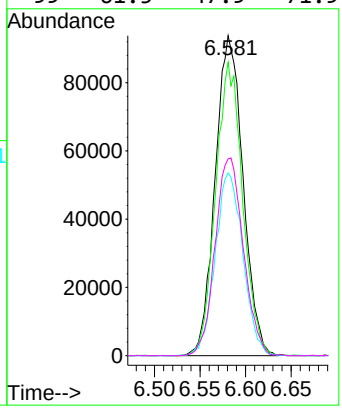





#47
1,1,2-Trichloroethane
Concen: 14.615 ppbv
RT: 6.581 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 97 Resp: 19887

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 91.7 | 72.8 | 109.2 |
| 85 | 57.0 | 44.2 | 66.4 |
| 99 | 61.5 | 47.9 | 71.9 |




**Instrument :**
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VSTDICC015

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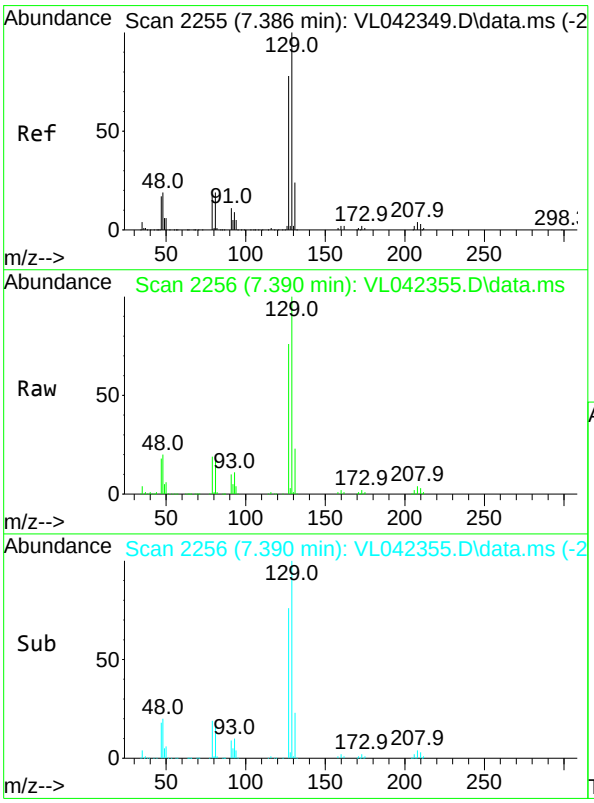
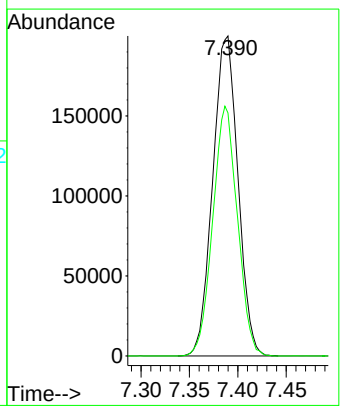
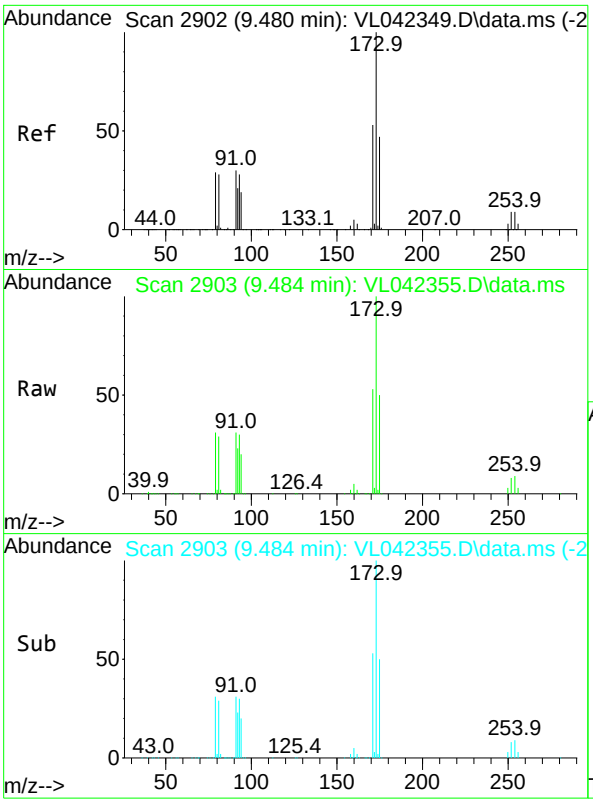



#48
Dibromochloromethane
Concen: 15.105 ppbv
RT: 7.390 min Scan# 2256
Delta R.T. 0.004 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:129 Resp: 362887

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 76.3 | 39.1 | 117.3 |

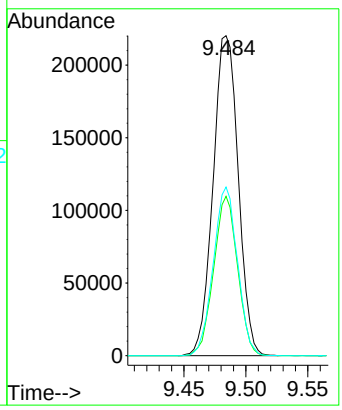





#49
Bromoform
Concen: 14.865 ppbv
RT: 9.484 min Scan# 2
Delta R.T. 0.004 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:173 Resp: 31228

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 47.3 | 38.2 | 57.2 |
| 171 | 50.6 | 40.9 | 61.3 |




**Instrument :**
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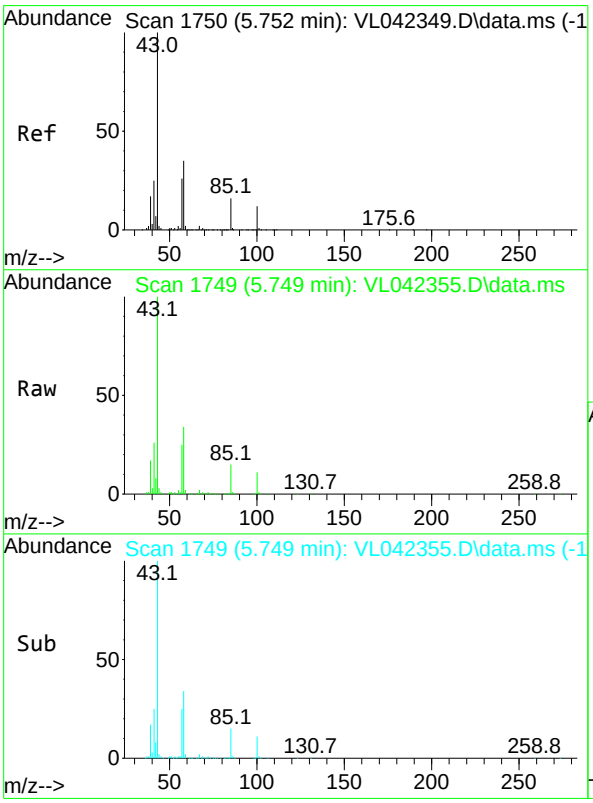
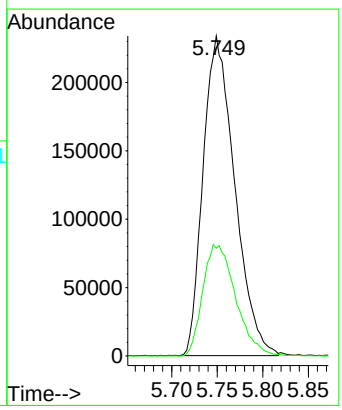
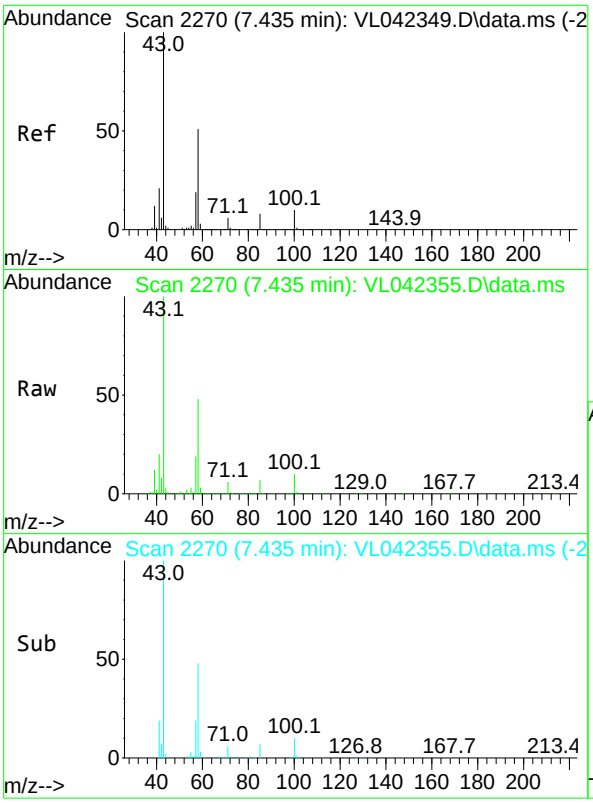



#50
4-Methyl-2-Pentanone
Concen: 12.889 ppbv
RT: 5.749 min Scan# 1749
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 43 Resp: 563658

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 36.3 | 28.6 | 43.0 |

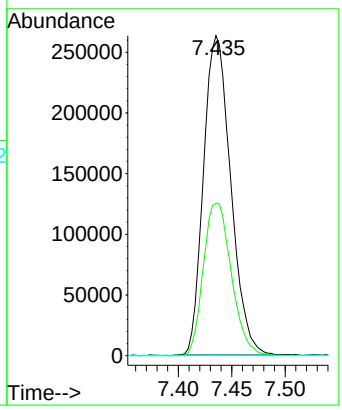





#51
2-Hexanone
Concen: 11.834 ppbv
RT: 7.435 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 43 Resp: 46700

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 49.2 | 40.2 | 60.4 |
| 98 | 0.0 | 0.1 | 0.1 |




**Instrument :**
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VSTDICC015

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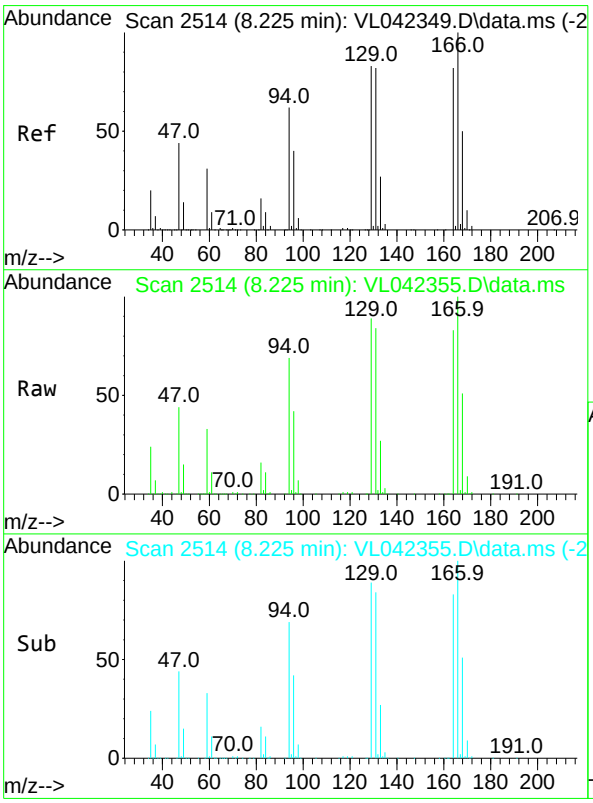
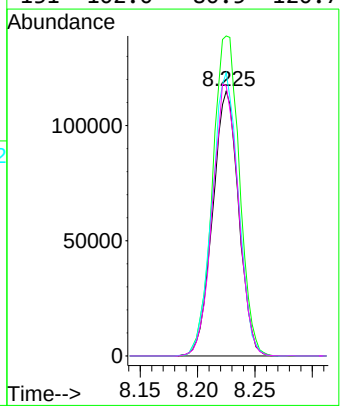
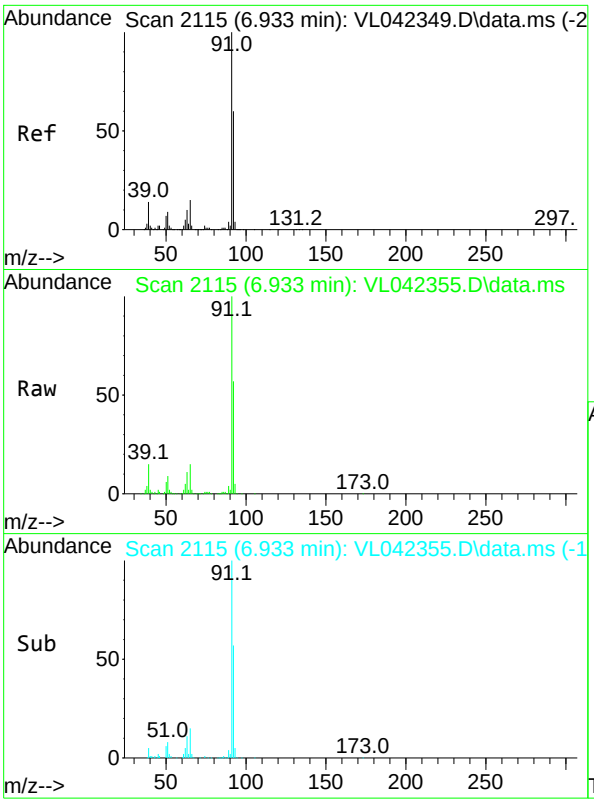



#52
Tetrachloroethene
Concen: 13.046 ppbv
RT: 8.225 min Scan# 2514
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:164 Resp: 180631

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 120.8 | 98.2 | 147.2 |
| 129 | 107.0 | 81.8 | 122.8 |
| 131 | 102.0 | 80.5 | 120.7 |

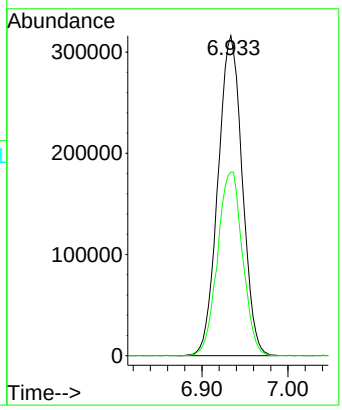





#53
Toluene
Concen: 14.411 ppbv
RT: 6.933 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 91 Resp: 61942

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 59.3 | 48.2 | 72.4 |




**Instrument :**
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VSTDICC015

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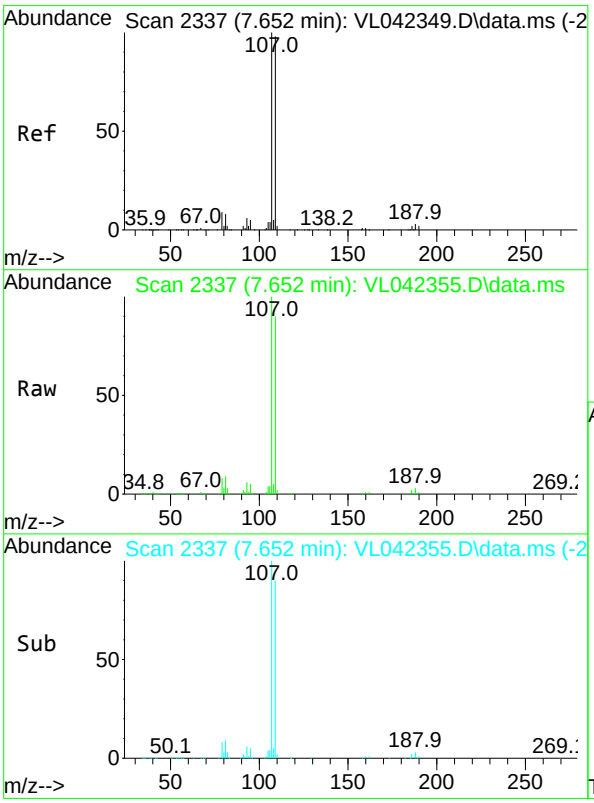
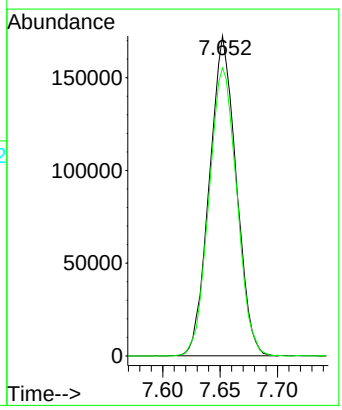
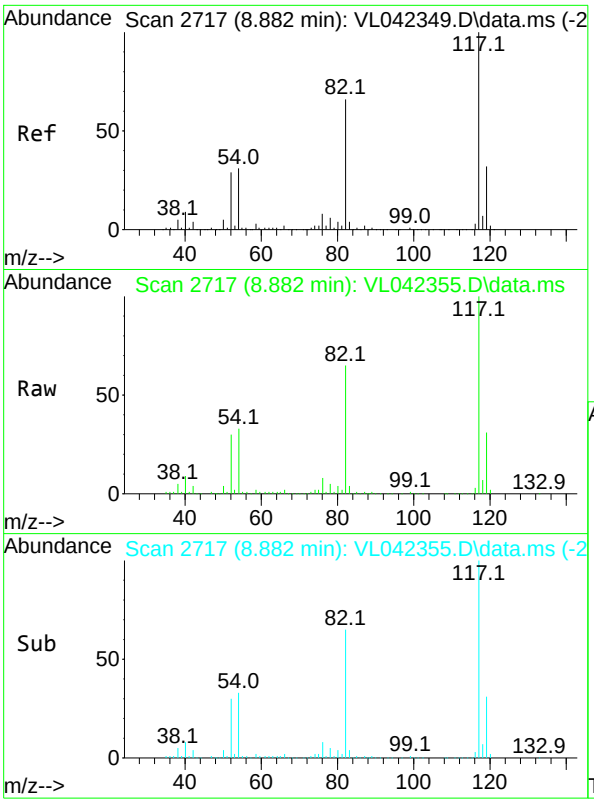



#54
1,2-Dibromoethane
Concen: 14.442 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:107 Resp: 280071

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 89.9 | 78.2 | 117.4 |

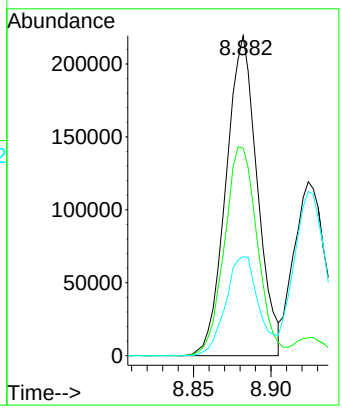





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:117 Resp: 30846

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 74.2 | 57.8 | 86.6 |
| 119 | 31.4 | 25.2 | 37.8 |

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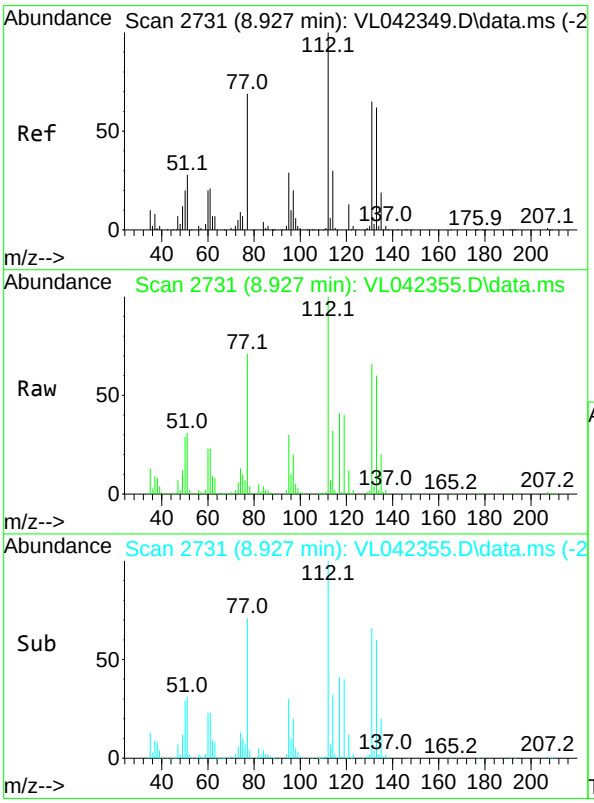
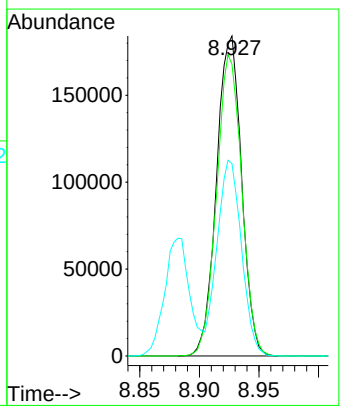
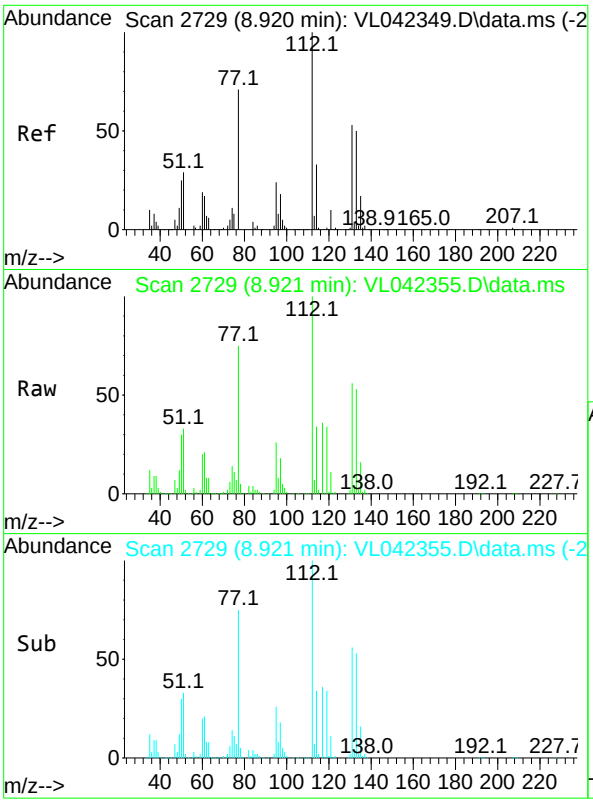



#56
1,1,1,2-Tetrachloroethane
Concen: 14.389 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:131 Resp: 268626

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.6 | 78.3 | 117.5 |
| 119 | 59.4 | 48.7 | 73.1 |






#57
Chlorobenzene
Concen: 14.151 ppbv
RT: 8.921 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:112 Resp: 45401

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 75.3 | 57.8 | 86.6 |
| 114 | 33.9 | 29.3 | 35.9 |

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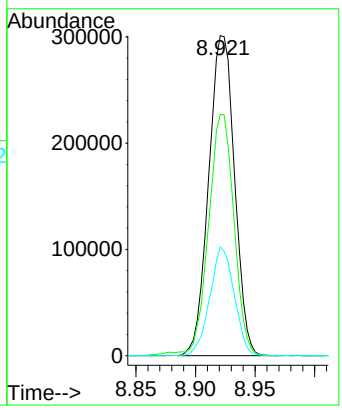
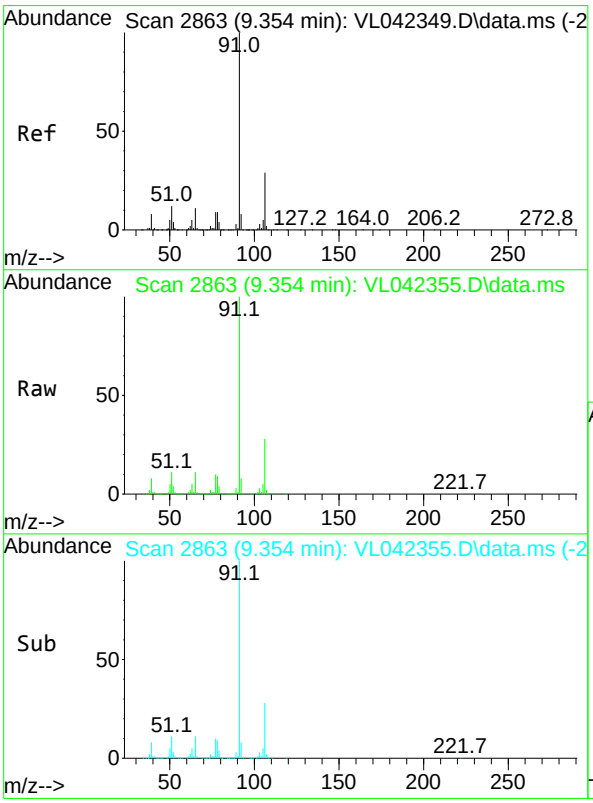
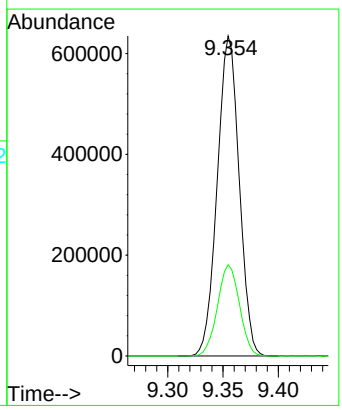


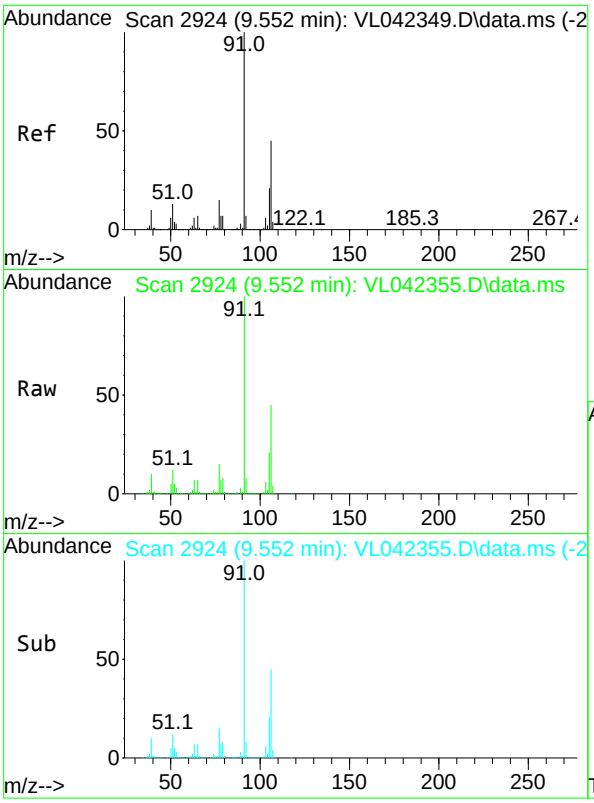




#58
Ethyl Benzene
Concen: 14.308 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 91 Resp: 874424

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 28.5 | 23.0 | 34.4 |

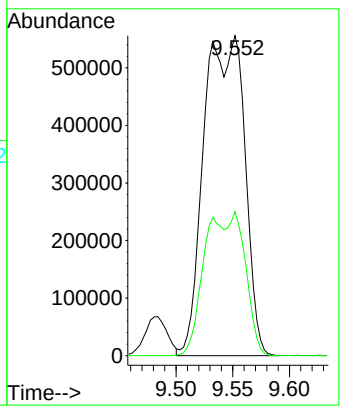





#59
m/p-Xylene
Concen: 28.109 ppbv m
RT: 9.552 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 91 Resp: 138808

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 44.5 | 35.4 | 53.2 |

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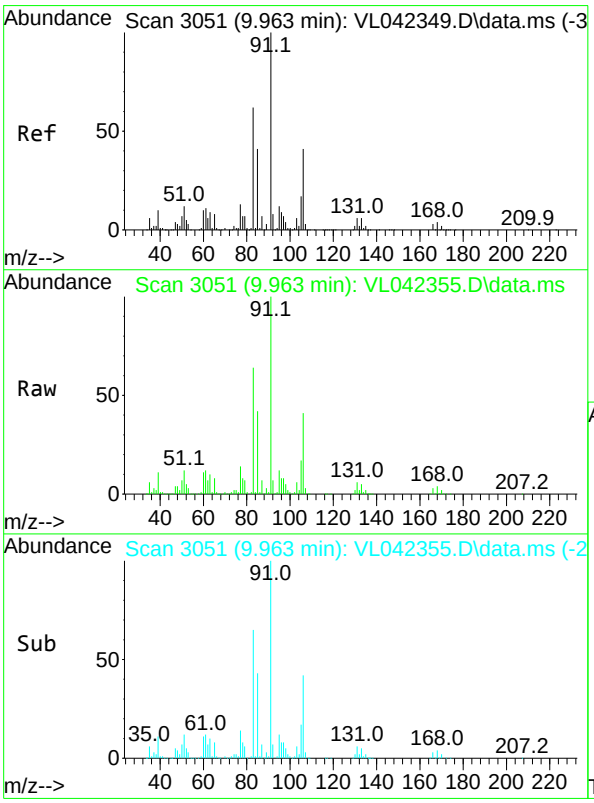
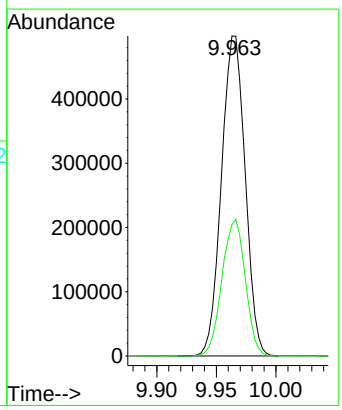
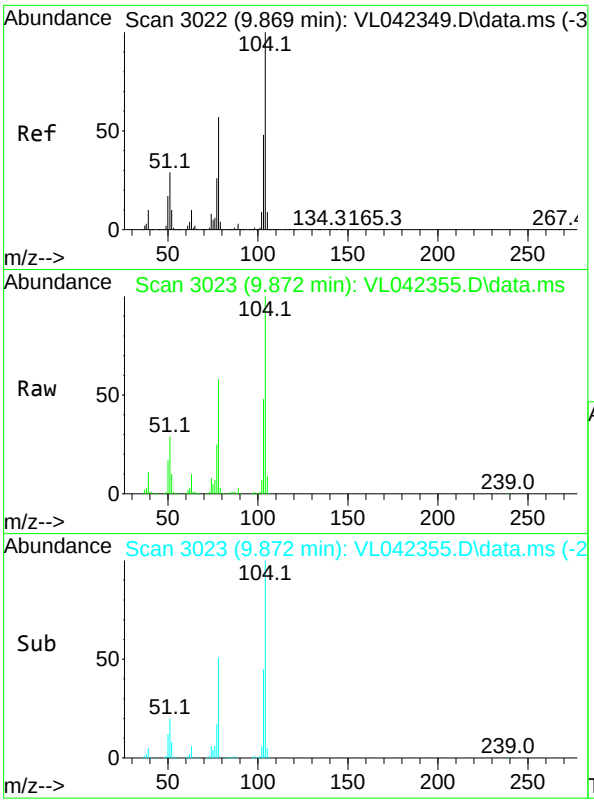



#60
o-Xylene
Concen: 13.902 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 91 Resp: 689246

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 41.9 | 21.1 | 63.4 |

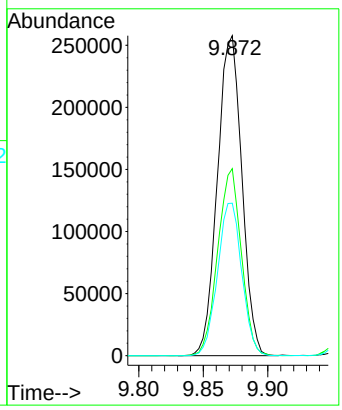





#61
Styrene
Concen: 14.347 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:104 Resp: 33950

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 56.4 | 44.6 | 66.8 |
| 103 | 47.3 | 37.4 | 56.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

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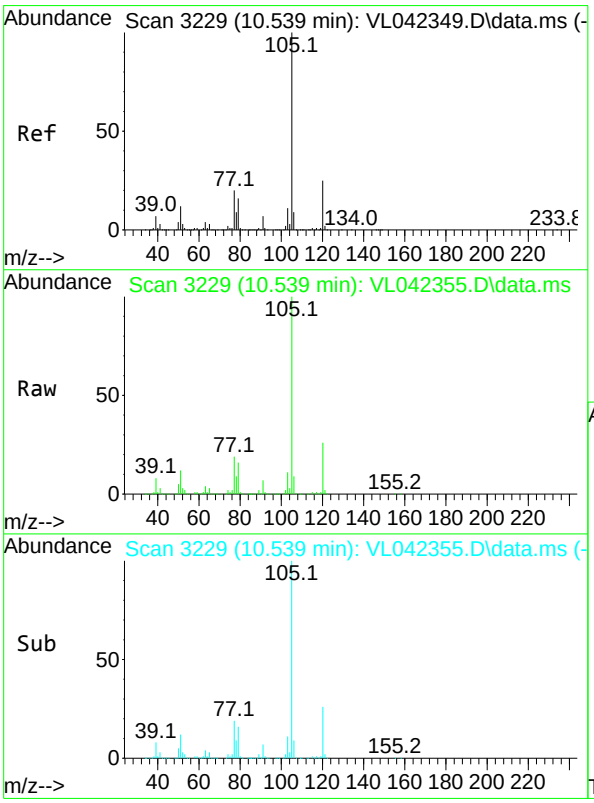
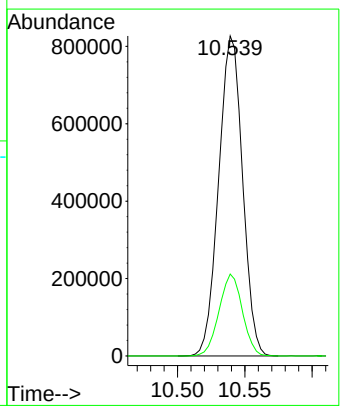
Supervised By :Mahesh Dadoda 04/18/2025

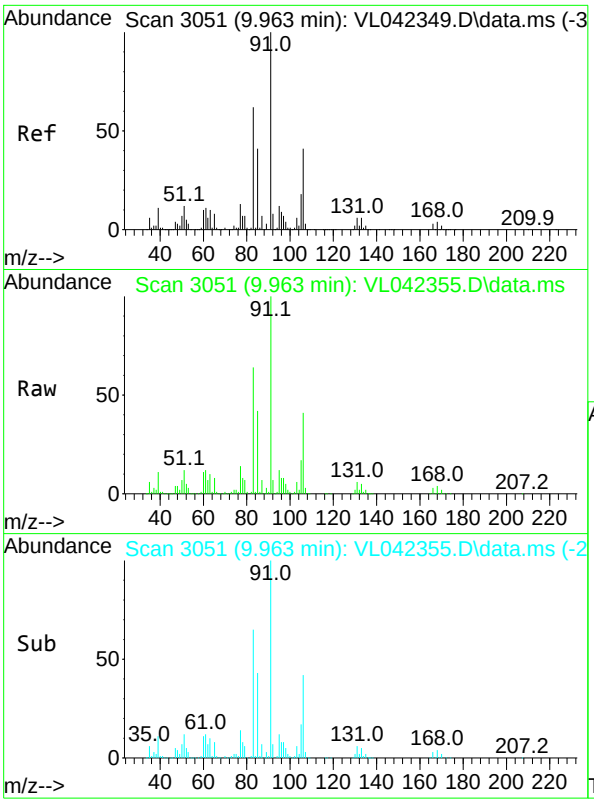



#62
Isopropylbenzene
Concen: 13.999 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:105 Resp: 1018968

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.0 | 19.8 | 29.8 |

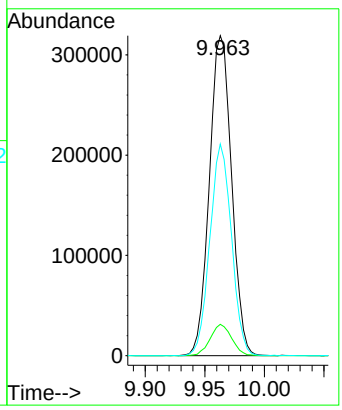





#63
1,1,2,2-Tetrachloroethane
Concen: 12.816 ppbv
RT: 9.963 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 83 Resp: 41289

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.5 | 4.5 | 13.7 |
| 85 | 64.5 | 32.4 | 97.0 |

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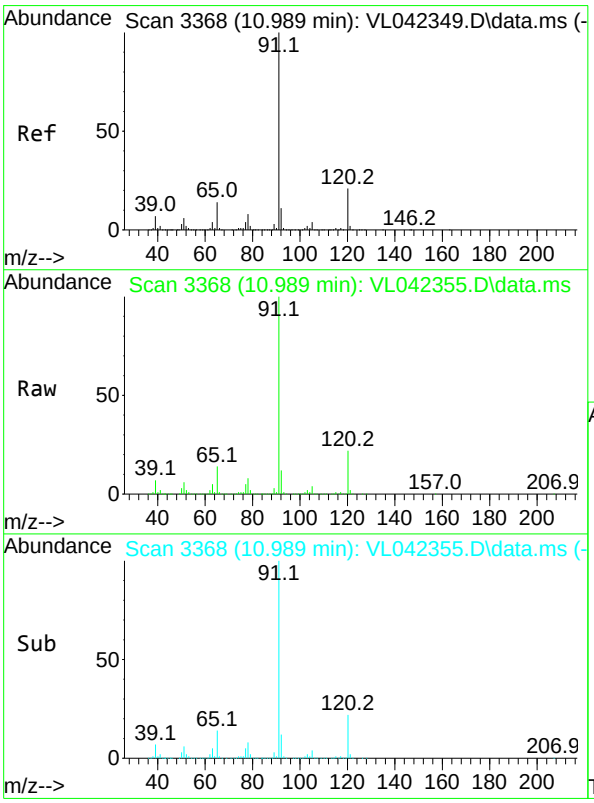
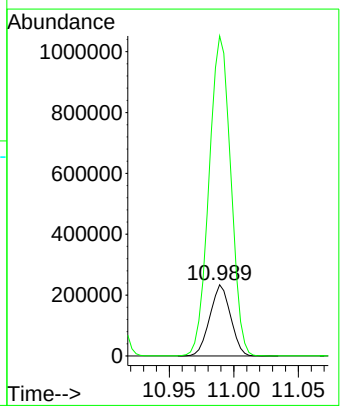
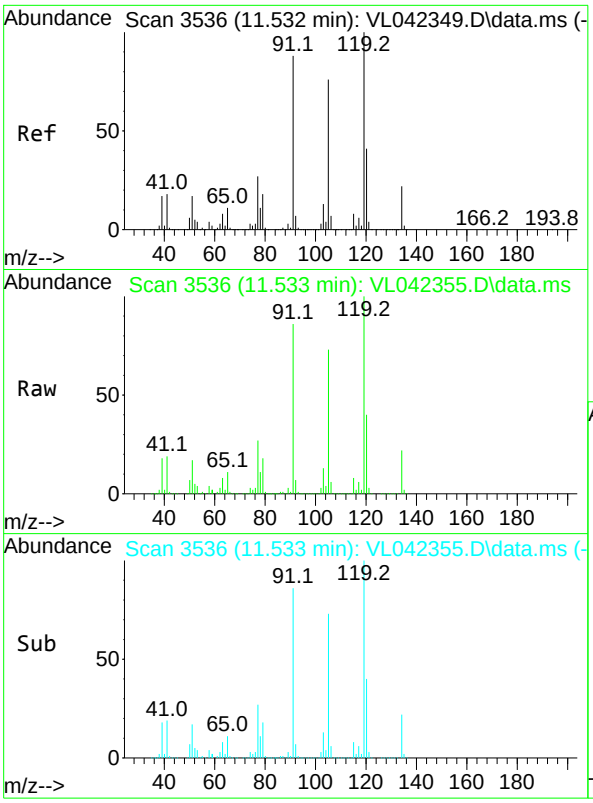



#64
n-propylbenzene
Concen: 14.255 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:120 Resp: 260812

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 473.2 | 392.4 | 588.6 |

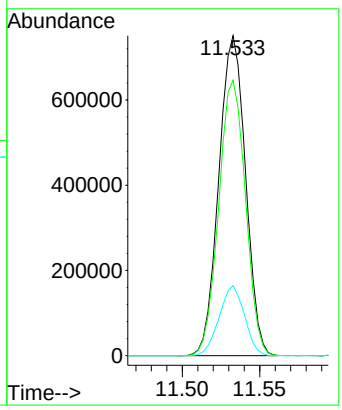





#65
tert-Butylbenzene
Concen: 13.449 ppbv
RT: 11.533 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:119 Resp: 89972

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 86.2 | 74.6 | 111.8 |
| 134 | 20.8 | 18.8 | 28.2 |

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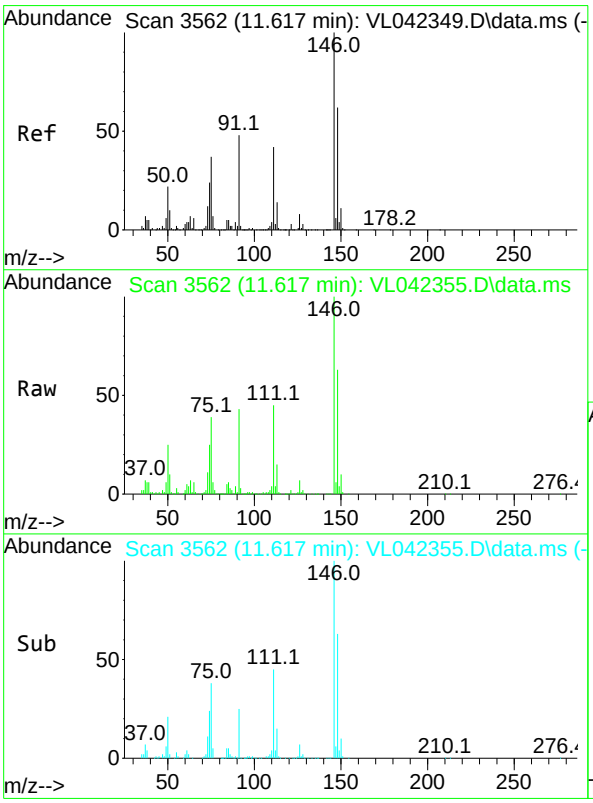
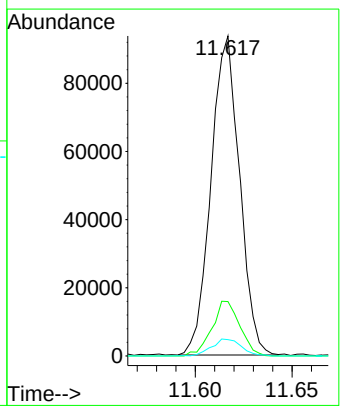
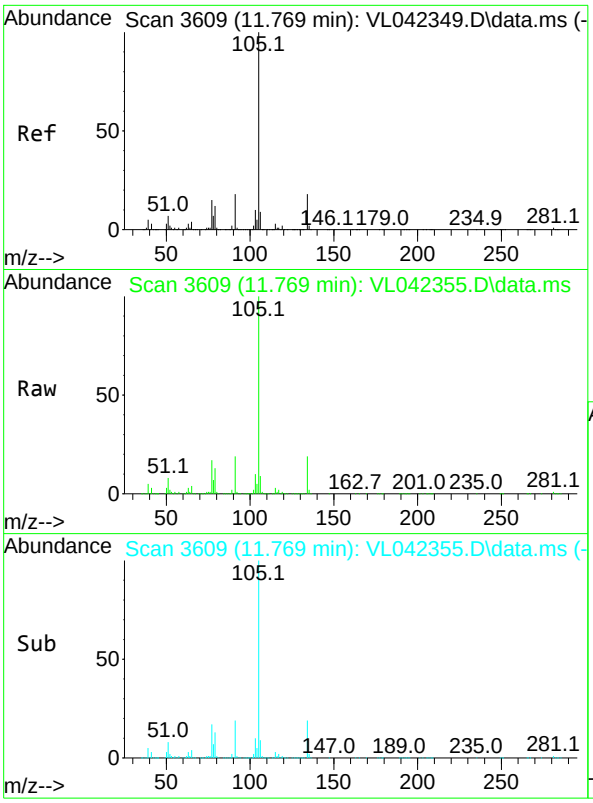



#66
Benzyl Chloride
Concen: 13.061 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 91 Resp: 96016

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 16.8 | 11.8 | 17.6 |
| 128 | 5.5 | 4.5 | 6.7 |

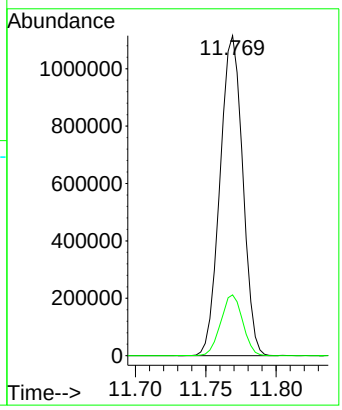





#67
sec-Butylbenzene
Concen: 13.468 ppbv
RT: 11.769 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:105 Resp: 125326

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 18.4 | 14.6 | 21.8 |

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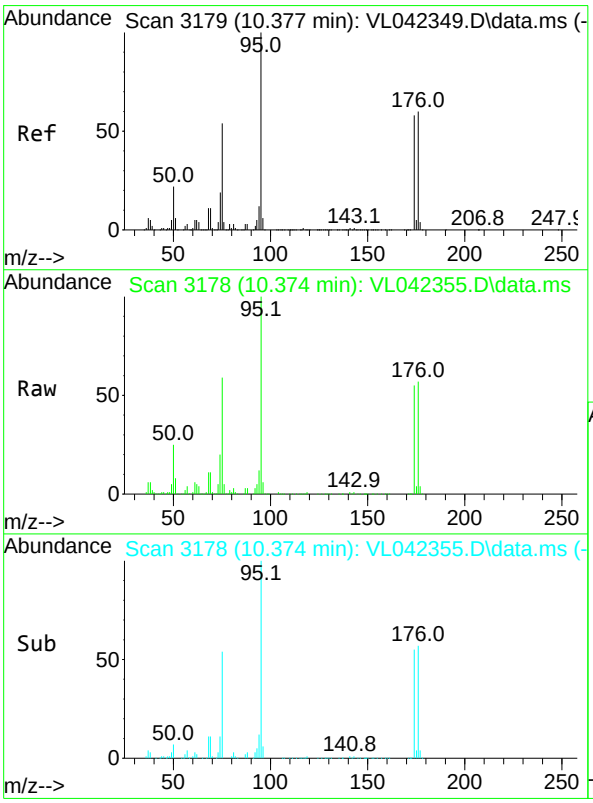
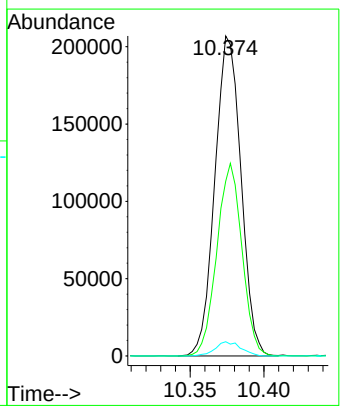
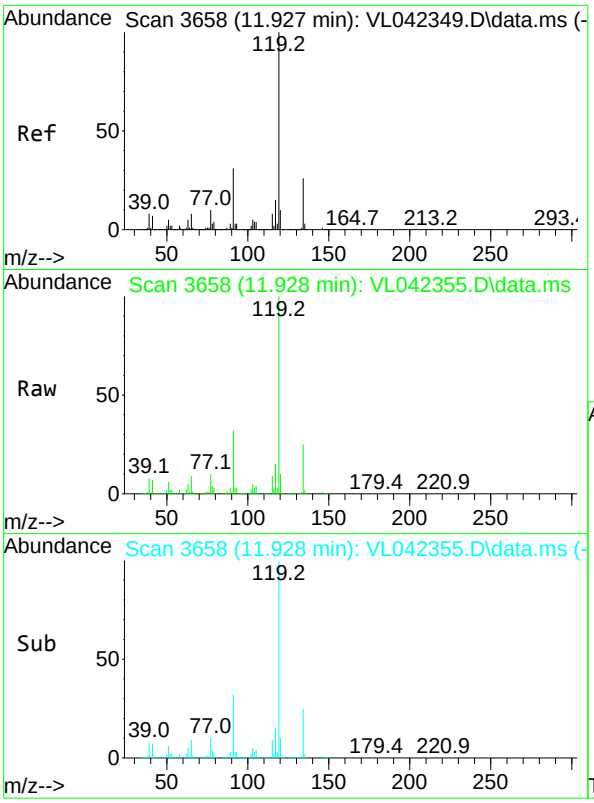



#68
1-Bromo-4-Fluorobenzene
Concen: 10.038 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 95 Resp: 254437

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 58.1 | 48.5 | 72.7 |
| 175 | 4.4 | 3.7 | 5.5 |

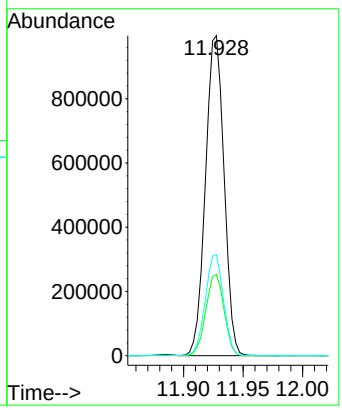





#69
p-Isopropyltoluene
Concen: 13.382 ppbv
RT: 11.928 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:119 Resp: 108185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.0 | 20.0 | 30.0 |
| 91 | 31.1 | 24.4 | 36.6 |

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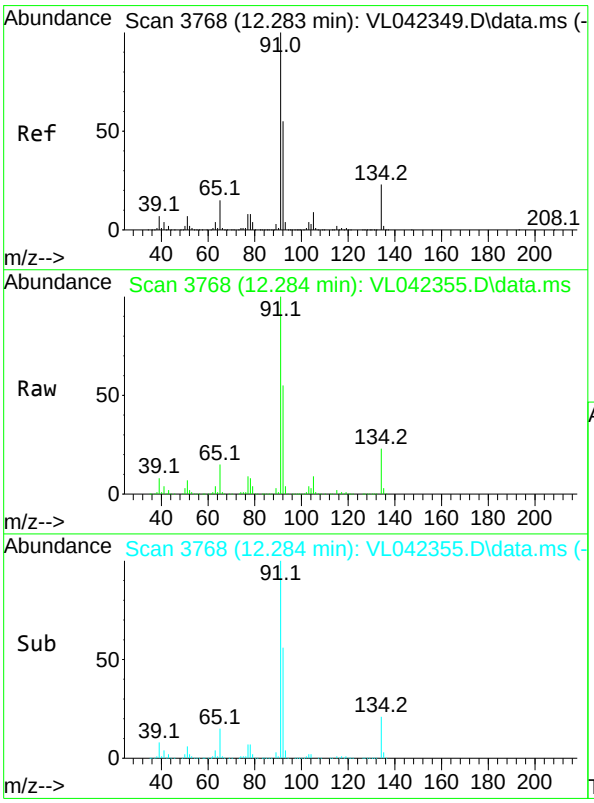
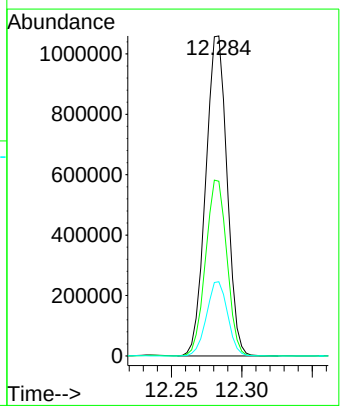
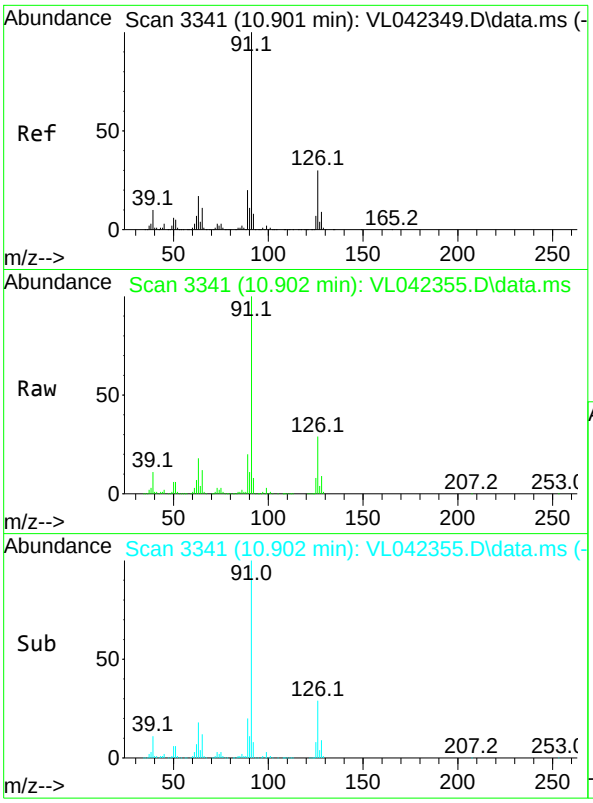



#70
n-Butylbenzene
Concen: 13.266 ppbv
RT: 12.284 min Scan# 3768
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 91 Resp: 1117042

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 55.3 | 44.2 | 66.4 |
| 134 | 23.0 | 18.2 | 27.4 |

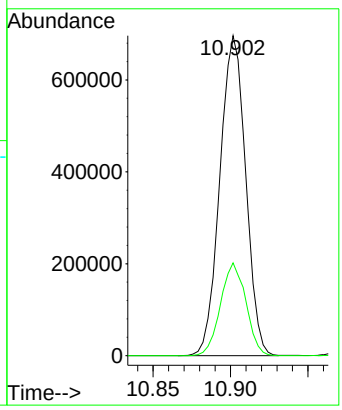





#71
2-Chlorotoluene
Concen: 14.131 ppbv
RT: 10.902 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 91 Resp: 80672

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 28.4 | 11.4 | 45.4 |

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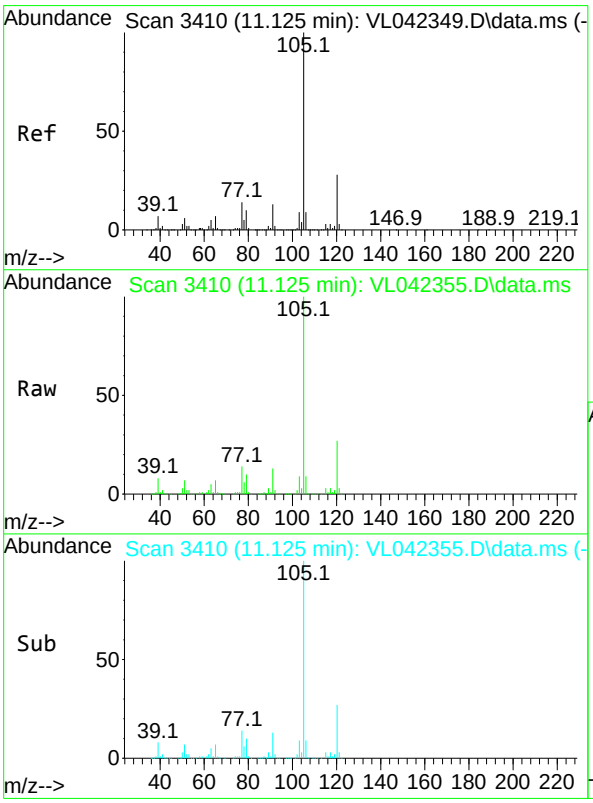
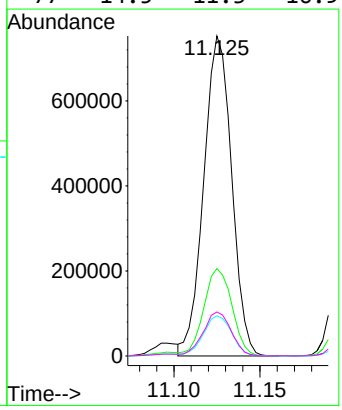
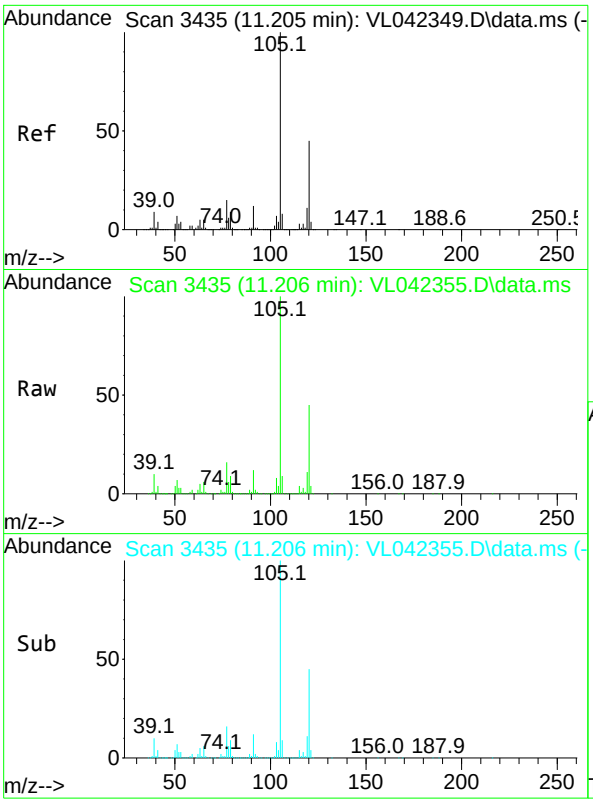



#72
4-Ethyltoluene
Concen: 13.992 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:105 Resp: 848077

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 28.7 | 23.2 | 34.8 |
| 91 | 13.5 | 10.4 | 15.6 |
| 77 | 14.5 | 11.3 | 16.9 |

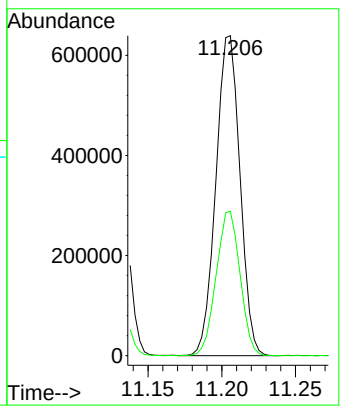





#73
1,3,5-Trimethylbenzene
Concen: 13.578 ppbv
RT: 11.206 min Scan# 34
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:105 Resp: 72655

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.1 | 35.6 | 53.4 |

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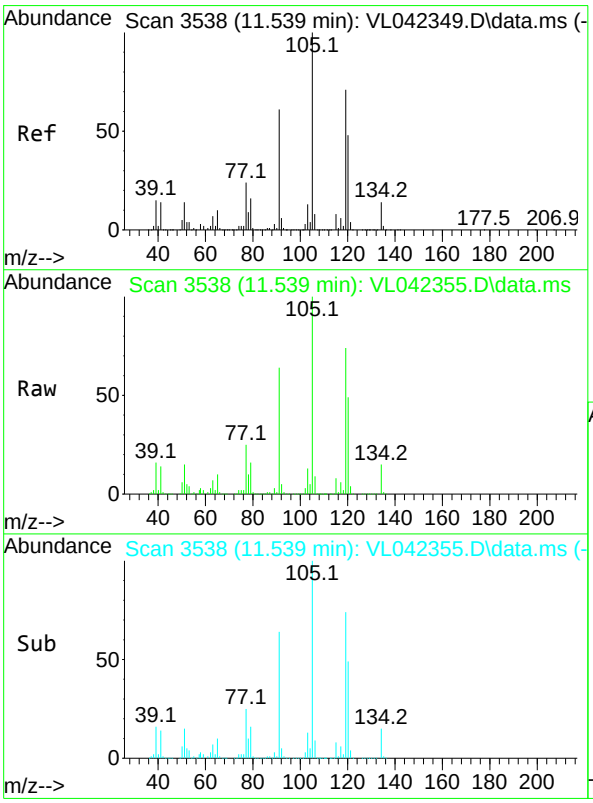
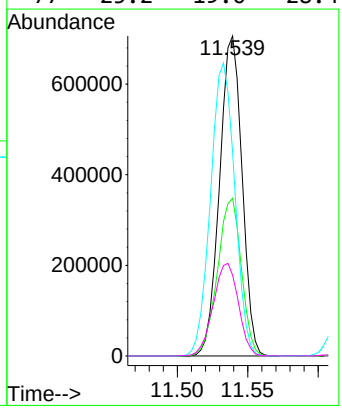
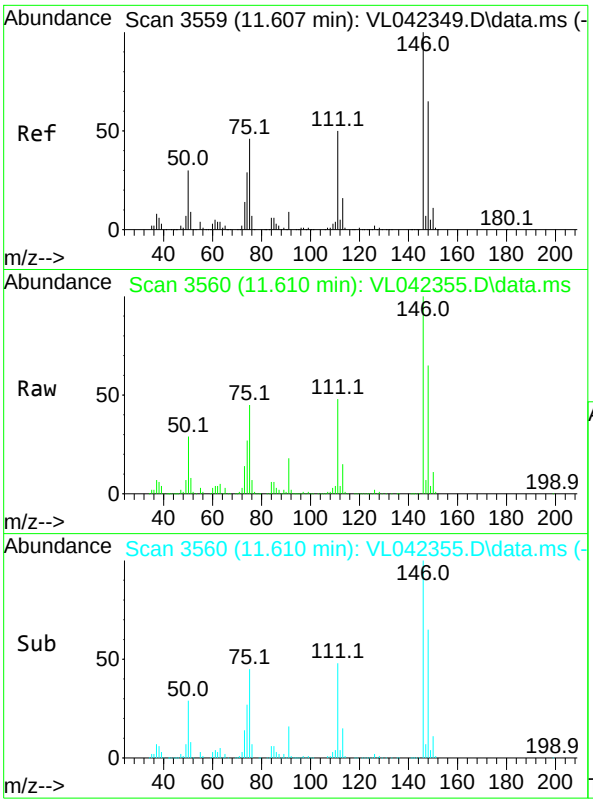



#74
1,2,4-Trimethylbenzene
Concen: 12.572 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:105 Resp: 785772

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 49.3 | 38.1 | 57.1 |
| 91 | 63.7 | 48.8 | 73.2 |
| 77 | 25.2 | 19.0 | 28.4 |

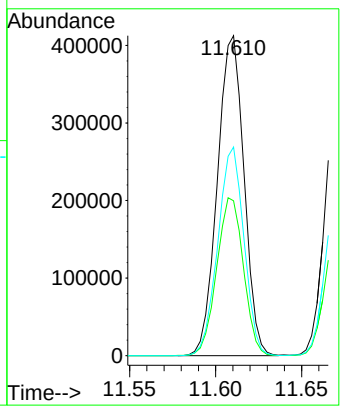





#75
1,3-Dichlorobenzene
Concen: 13.670 ppbv
RT: 11.610 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:146 Resp: 44408

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 49.6 | 24.3 | 72.8 |
| 148 | 63.9 | 31.6 | 94.8 |

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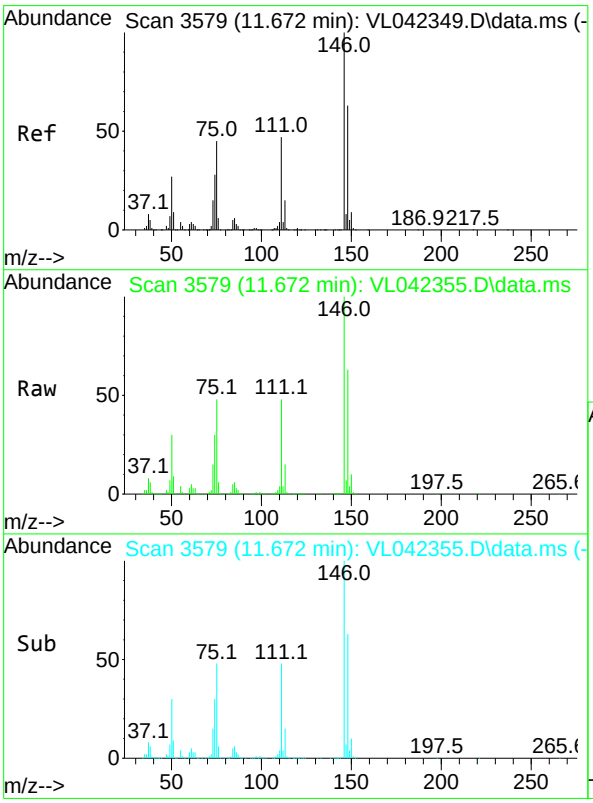
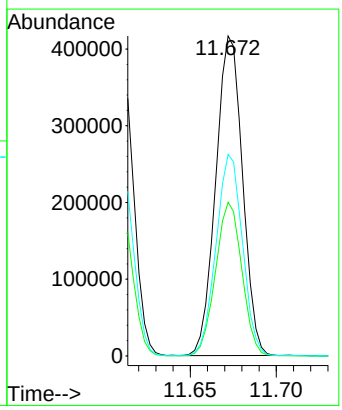
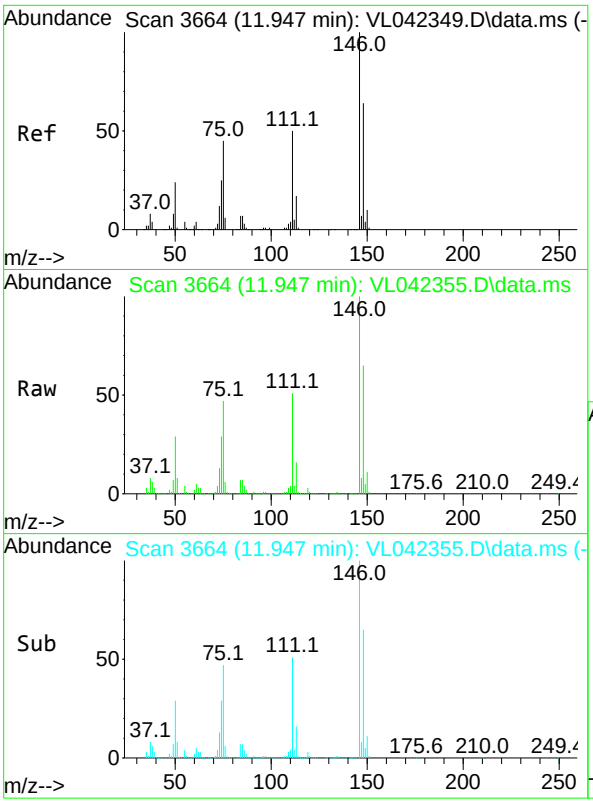



#76
1,4-Dichlorobenzene
Concen: 13.802 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:146 Resp: 450662

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 47.4 | 24.2 | 72.6 |
| 148 | 62.6 | 32.1 | 96.5 |

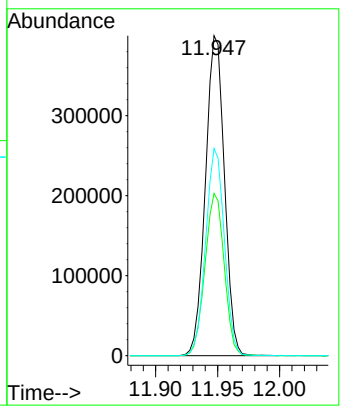





#77
1,2-Dichlorobenzene
Concen: 13.529 ppbv
RT: 11.947 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:146 Resp: 42737

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 51.3 | 25.3 | 75.9 |
| 148 | 63.8 | 31.5 | 94.5 |

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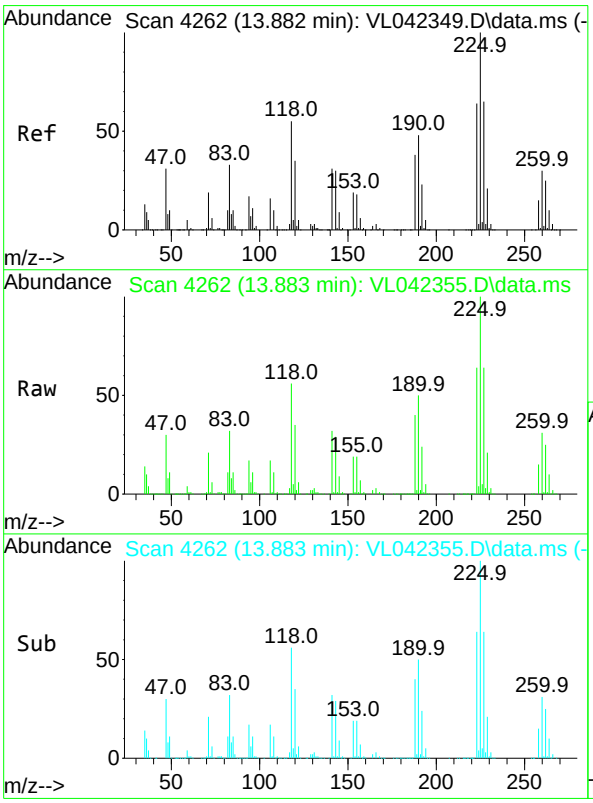
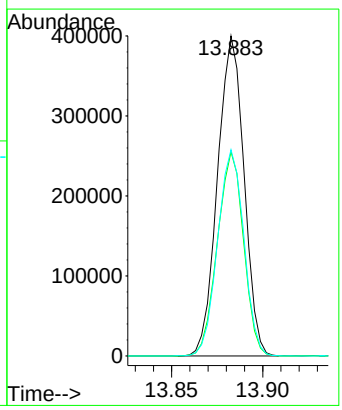
Supervised By :Mahesh Dadoda 04/18/2025

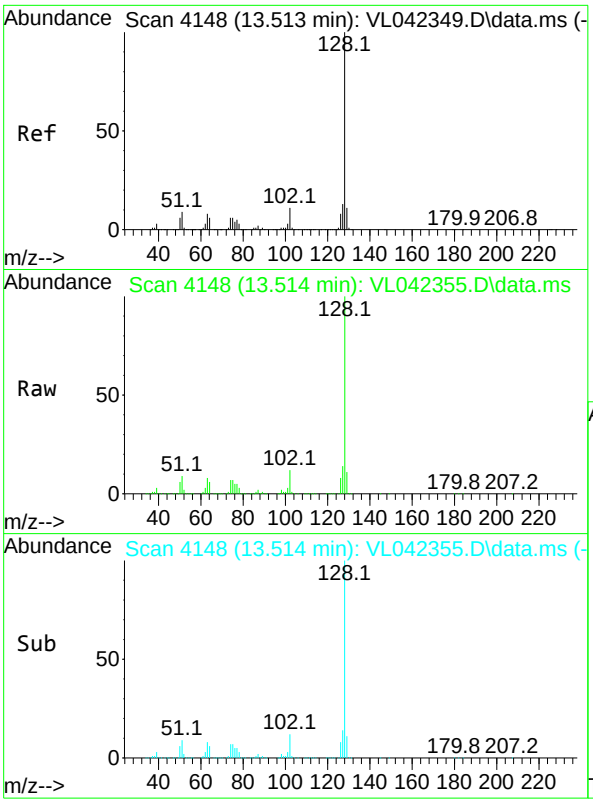



#78
Hexachloro-1,3-Butadiene
Concen: 12.679 ppbv
RT: 13.883 min Scan# 4262
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:225 Resp: 404441

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.8 | 50.3 | 75.5 |
| 227 | 63.8 | 51.5 | 77.3 |

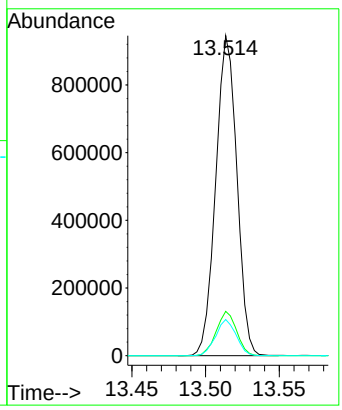





#79
Naphthalene
Concen: 12.632 ppbv
RT: 13.514 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:128 Resp: 94408

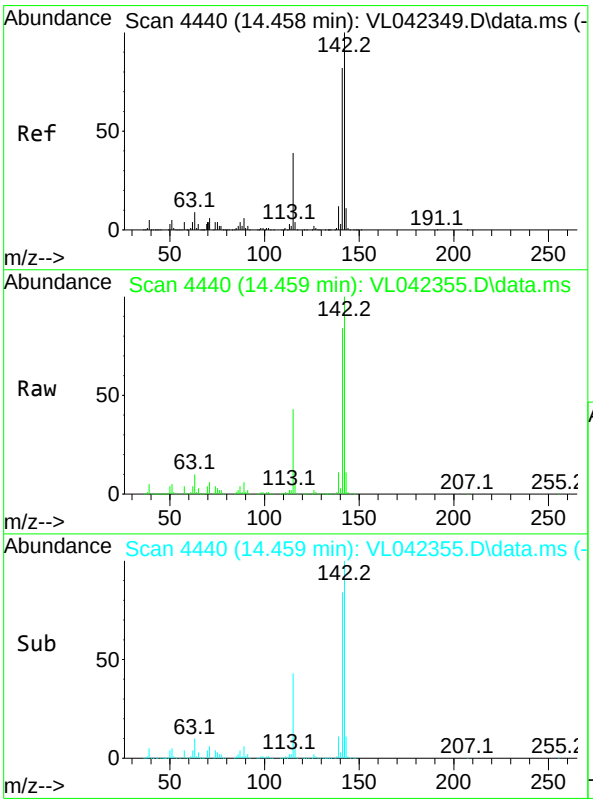
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.9 | 10.6 | 15.8 |
| 129 | 11.3 | 8.6 | 12.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

**Manual Integrations**
**APPROVED**

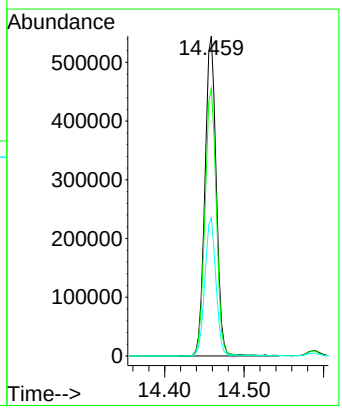
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

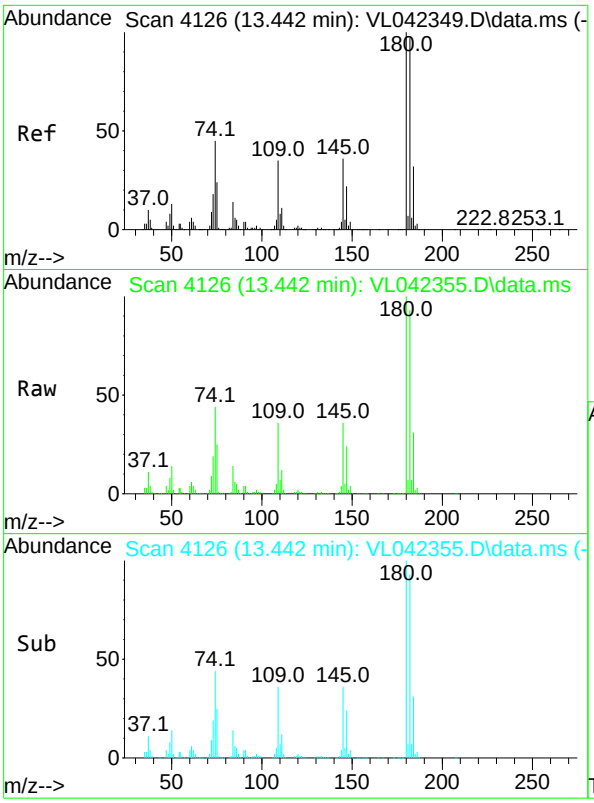



#80
Naphthalene,2-methyl-
Concen: 12.686 ppbv
RT: 14.459 min Scan# 4440
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:142 Resp: 540339

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 84.3 | 66.8 | 100.2 |
| 115 | 43.0 | 33.4 | 50.2 |

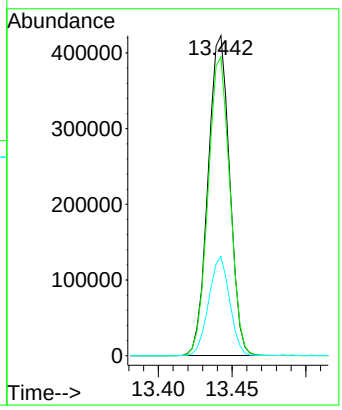





#81
1,2,4-Trichlorobenzene
Concen: 13.398 ppbv
RT: 13.442 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:180 Resp: 42998

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.3 | 76.8 | 115.2 |
| 184 | 30.2 | 24.6 | 36.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042356.D
Acq On : 17 Apr 2025 13:43
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 02:15:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.787 | 49 | 113992 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.958 | 114 | 324528 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.881 | 117 | 305357 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95 | 250149 | 9.969 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 99.700% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.499 | 85 | 197623 | 9.812 | ppbv | 100 |
| 3) Chlorodifluoromethane | 1.476 | 51 | 191010 | 9.960 | ppbv | 99 |
| 4) Chloromethane | 1.531 | 50 | 78080 | 9.796 | ppbv | 98 |
| 5) Vinyl Chloride | 1.580 | 62 | 75628 | 8.717 | ppbv | 97 |
| 6) Bromomethane | 1.667 | 94 | 35115 | 9.422 | ppbv | 84 |
| 7) Chloroethane | 1.703 | 64 | 30158 | 9.612 | ppbv | 99 |
| 8) Dichlorotetrafluoroethane | 1.554 | 85 | 172863 | 9.997 | ppbv | 98 |
| 9) Propene | 1.482 | 41 | 84636 | 9.690 | ppbv | 95 |
| 10) Heptane | 4.978 | 43 | 221840 | 9.041 | ppbv | 98 |
| 11) Trichlorofluoromethane | 1.877 | 101 | 187827 | 9.807 | ppbv | 99 |
| 12) 1,1,2-Trichlorotrifluo... | 2.140 | 101 | 148485 | 9.482 | ppbv | 100 |
| 13) Ethanol | 1.722 | 45 | 4171 | 3.005 | ppbv | 97 |
| 14) Bromoethene | 1.780 | 108 | 58320 | 9.880 | ppbv | 99 |
| 15) Acetone | 1.835 | 43 | 158708 | 8.505 | ppbv | 100 |
| 16) 1,3-Butadiene | 1.609 | 39 | 78804 | 8.829 | ppbv | 95 |
| 17) tert-Butyl alcohol | 2.039 | 59 | 218954 | 9.468 | ppbv | 99 |
| 18) 1,1-Dichloroethene | 2.033 | 96 | 67940 | 9.287 | ppbv | 94 |
| 19) Isopropyl Alcohol | 1.887 | 45 | 96365 | 9.296 | ppbv | 95 |
| 20) Methylene Chloride | 2.062 | 84 | 59203 | 8.101 | ppbv | 91 |
| 21) Allyl Chloride | 2.094 | 41 | 120704 | 9.368 | ppbv | 98 |
| 22) trans-1,2-Dichloroethene | 2.340 | 96 | 78070 | 9.373 | ppbv | 99 |
| 23) Vinyl Acetate | 2.463 | 43 | 73373 | 9.714 | ppbv | 99 |
| 24) 1,1-Dichloroethane | 2.408 | 63 | 155571 | 9.832 | ppbv | 100 |
| 25) Ethyl Acetate | 2.835 | 43 | 449014 | 9.759 | ppbv | 99 |
| 26) Hexane | 2.826 | 57 | 175752 | 9.439 | ppbv | 98 |
| 27) Carbon Disulfide | 2.149 | 76 | 191117 | 9.587 | ppbv | 100 |
| 28) Methyl tert-Butyl Ether | 2.441 | 73 | 115190 | 9.442 | ppbv | 94 |
| 29) Chloroform | 2.848 | 83 | 260855 | 9.912 | ppbv | 98 |
| 30) Cyclohexane | 3.855 | 84 | 148246 | 9.849 | ppbv | 99 |
| 31) cis-1,2-Dichloroethene | 2.719 | 61 | 179993 | 10.167 | ppbv | 99 |
| 32) 1,1,1-Trichloroethane | 3.369 | 97 | 276599 | 9.336 | ppbv | 98 |
| 34) 2-Butanone | 2.557 | 43 | 248969 | 9.700 | ppbv | 99 |
| 35) Carbon Tetrachloride | 3.764 | 117 | 271862 | 9.256 | ppbv | 98 |
| 36) Benzene | 3.657 | 78 | 350545 | 10.014 | ppbv | 99 |
| 37) 1,2-Dichloroethane | 3.217 | 62 | 211790 | 10.081 | ppbv | 99 |
| 38) Trichloroethene | 4.551 | 130 | 139872 | 9.143 | ppbv | 96 |
| 39) 1,2-Dichloropropane | 4.315 | 63 | 129239 | 9.908 | ppbv | 99 |
| 40) 1,4-Dioxane | 4.583 | 88 | 61587 | 8.591 | ppbv # | 96 |
| 41) Tetrahydrofuran | 3.052 | 42 | 141861 | 9.479 | ppbv | 99 |
| 42) Bromodichloromethane | 4.489 | 83 | 296946 | 10.156 | ppbv | 96 |
| 43) Methyl Methacrylate | 4.878 | 69 | 149209 | 9.458 | ppbv | 96 |
| 44) 2,2,4-Trimethylpentane | 4.641 | 57 | 606376 | 10.030 | ppbv | 99 |
| 45) t-1,3-Dichloropropene | 6.412 | 75 | 160750 | 9.975 | ppbv | 99 |

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042356.D
Acq On : 17 Apr 2025 13:43
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 02:15:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.599 | 75 | 200144 | 10.148 | ppbv | | 88 |
| 47) 1,1,2-Trichloroethane | 6.583 | 97 | 135575 | 10.202 | ppbv | | 95 |
| 48) Dibromochloromethane | 7.389 | 129 | 237206 | 10.103 | ppbv | | 100 |
| 49) Bromoform | 9.483 | 173 | 205630 | 10.016 | ppbv | | 99 |
| 50) 4-Methyl-2-Pentanone | 5.748 | 43 | 376145 | 8.819 | ppbv | | 99 |
| 51) 2-Hexanone | 7.435 | 43 | 310521 | 8.118 | ppbv | # | 99 |
| 52) Tetrachloroethene | 8.224 | 164 | 119424 | 8.827 | ppbv | | 94 |
| 53) Toluene | 6.933 | 91 | 419462 | 9.986 | ppbv | | 99 |
| 54) 1,2-Dibromoethane | 7.652 | 107 | 186231 | 9.792 | ppbv | | 98 |
| 56) 1,1,1,2-Tetrachloroethane | 8.927 | 131 | 182712 | 9.886 | ppbv | | 97 |
| 57) Chlorobenzene | 8.920 | 112 | 304533 | 9.589 | ppbv | | 96 |
| 58) Ethyl Benzene | 9.354 | 91 | 583515 | 9.645 | ppbv | | 99 |
| 59) m/p-Xylene | 9.532 | 91 | 932801m | 19.139 | ppbv | | |
| 60) o-Xylene | 9.966 | 91 | 464522 | 9.465 | ppbv | | 99 |
| 61) Styrene | 9.872 | 104 | 229869 | 9.813 | ppbv | | 98 |
| 62) Isopropylbenzene | 10.539 | 105 | 685965 | 9.520 | ppbv | | 100 |
| 63) 1,1,2,2-Tetrachloroethane | 9.962 | 83 | 279007 | 8.773 | ppbv | | 100 |
| 64) n-propylbenzene | 10.992 | 120 | 172654 | 9.533 | ppbv | | 99 |
| 65) tert-Butylbenzene | 11.532 | 119 | 609500 | 9.203 | ppbv | | 93 |
| 66) Benzyl Chloride | 11.613 | 91 | 63051 | 8.664 | ppbv | | 95 |
| 67) sec-Butylbenzene | 11.769 | 105 | 853807 | 9.268 | ppbv | | 99 |
| 69) p-Isopropyltoluene | 11.927 | 119 | 737861 | 9.220 | ppbv | | 99 |
| 70) n-Butylbenzene | 12.283 | 91 | 771461 | 9.255 | ppbv | | 100 |
| 71) 2-Chlorotoluene | 10.901 | 91 | 543794 | 9.622 | ppbv | | 98 |
| 72) 4-Ethyltoluene | 11.124 | 105 | 563136 | 9.385 | ppbv | | 100 |
| 73) 1,3,5-Trimethylbenzene | 11.205 | 105 | 486583 | 9.186 | ppbv | | 99 |
| 74) 1,2,4-Trimethylbenzene | 11.539 | 105 | 531576 | 8.592 | ppbv | | 97 |
| 75) 1,3-Dichlorobenzene | 11.610 | 146 | 297157 | 9.240 | ppbv | | 99 |
| 76) 1,4-Dichlorobenzene | 11.671 | 146 | 297697 | 9.210 | ppbv | | 98 |
| 77) 1,2-Dichlorobenzene | 11.950 | 146 | 289284 | 9.251 | ppbv | | 100 |
| 78) Hexachloro-1,3-Butadiene | 13.882 | 225 | 276960 | 8.771 | ppbv | | 100 |
| 79) Naphthalene | 13.513 | 128 | 647349 | 8.750 | ppbv | | 99 |
| 80) Naphthalene,2-methyl- | 14.458 | 142 | 350259 | 8.307 | ppbv | | 99 |
| 81) 1,2,4-Trichlorobenzene | 13.442 | 180 | 290260 | 9.136 | ppbv | | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

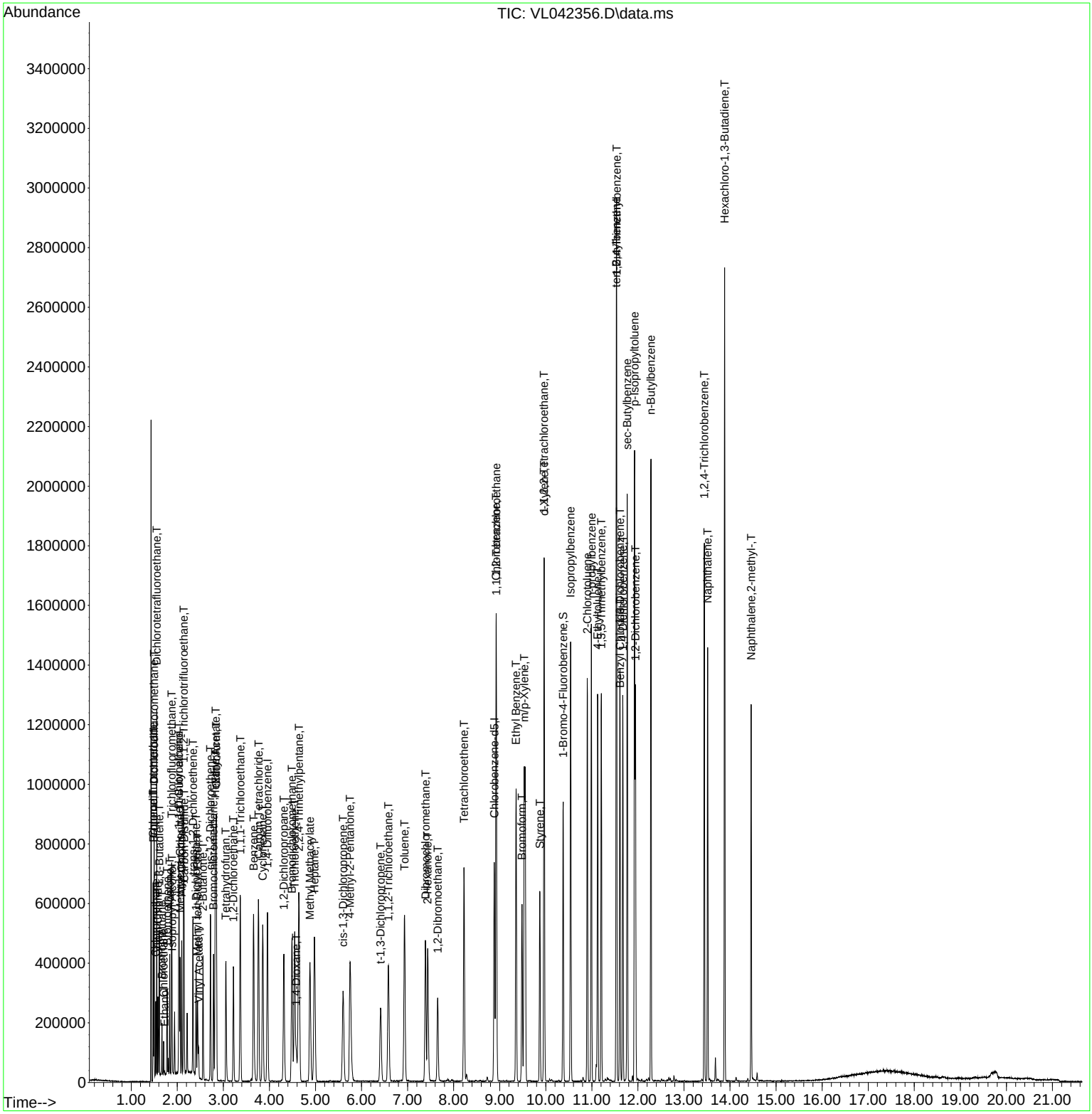
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042356.D
Acq On : 17 Apr 2025 13:43
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

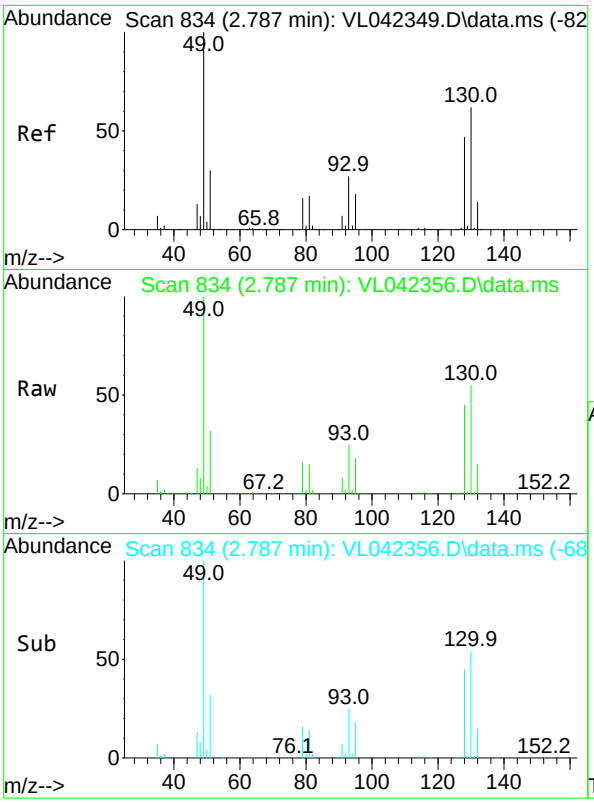
Quant Time: Apr 18 02:15:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

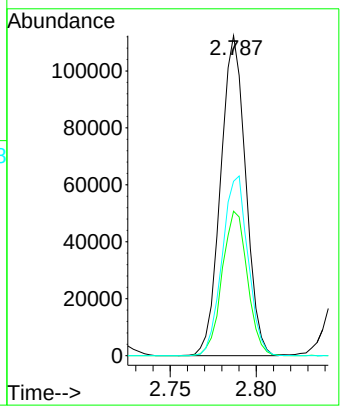





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 49 Resp: 11399

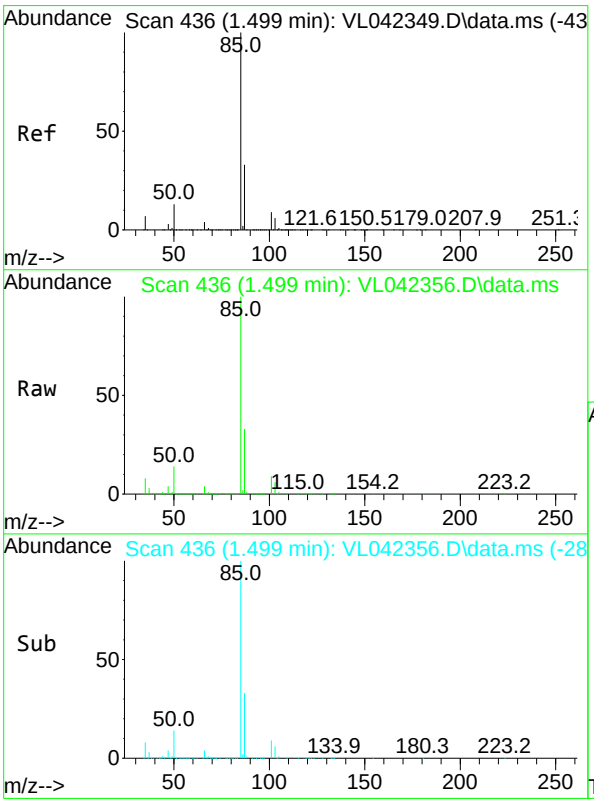
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 45.5 | 22.8 | 68.4 |
| 130 | 57.8 | 29.3 | 88.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

**Manual Integrations**
**APPROVED**

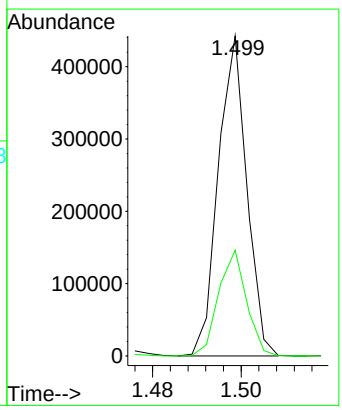
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

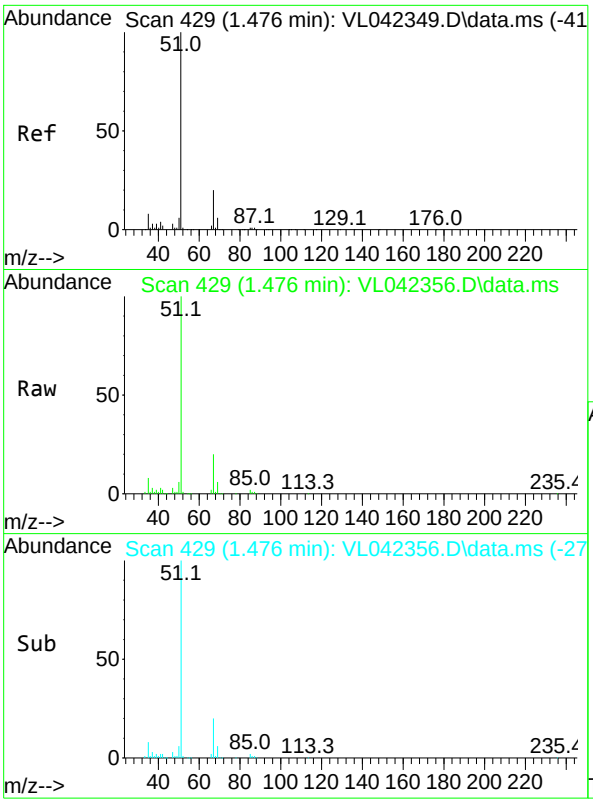



#2
Dichlorodifluoromethane
Concen: 9.812 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 85 Resp: 197623

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.1 | 26.6 | 39.8 |

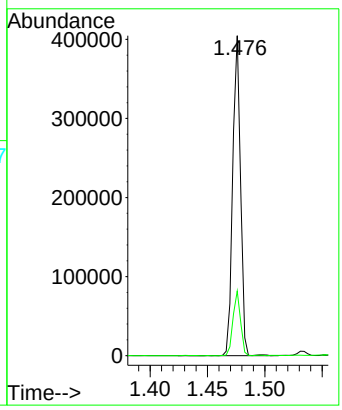





#3
Chlorodifluoromethane
Concen: 9.960 ppbv
RT: 1.476 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 51 Resp: 19101

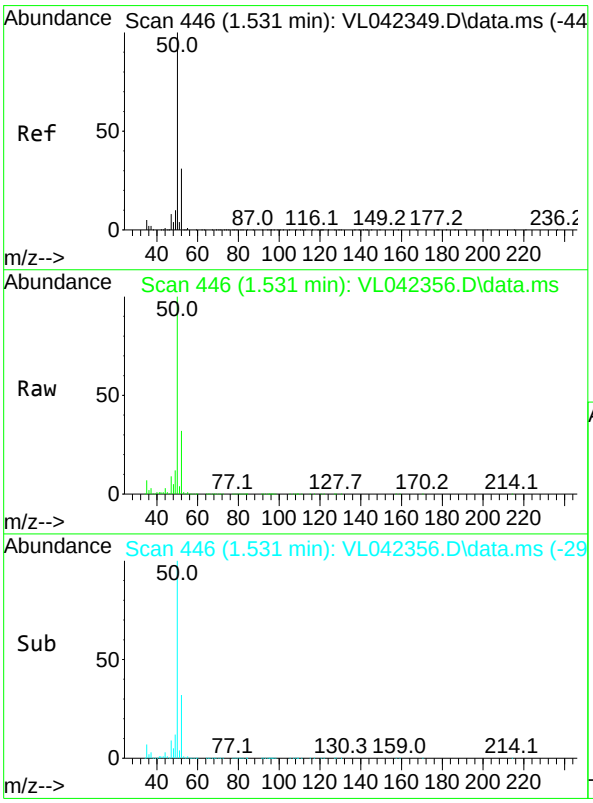
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 19.6 | 16.2 | 24.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

**Manual Integrations**
**APPROVED**

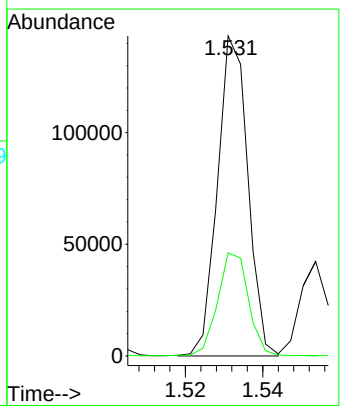
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

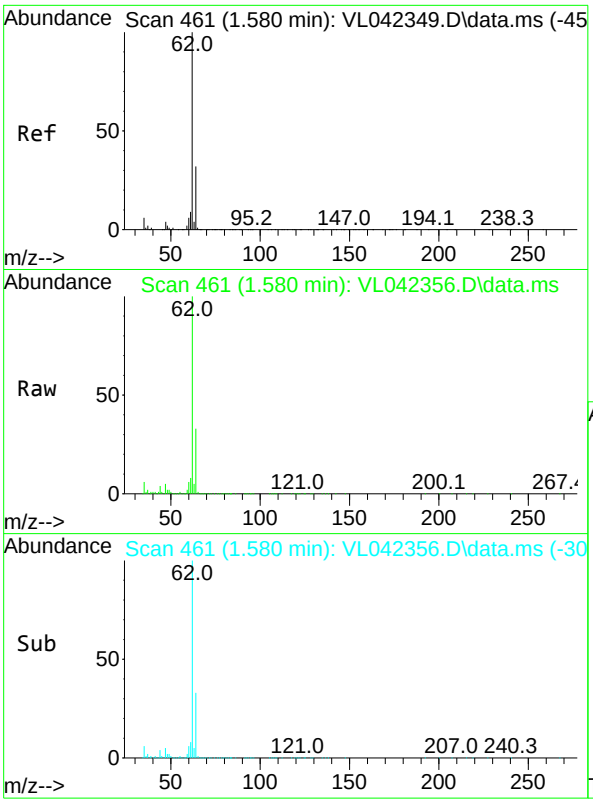



#4
Chloromethane
Concen: 9.796 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 50 Resp: 78080

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.0 | 24.7 | 37.1 |

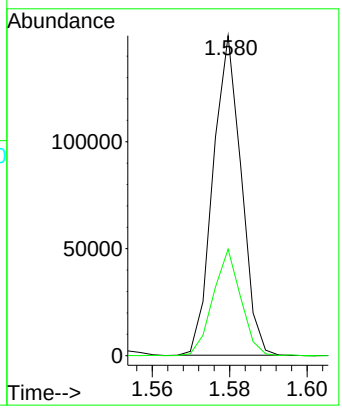





#5
Vinyl Chloride
Concen: 8.717 ppbv
RT: 1.580 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 62 Resp: 7562

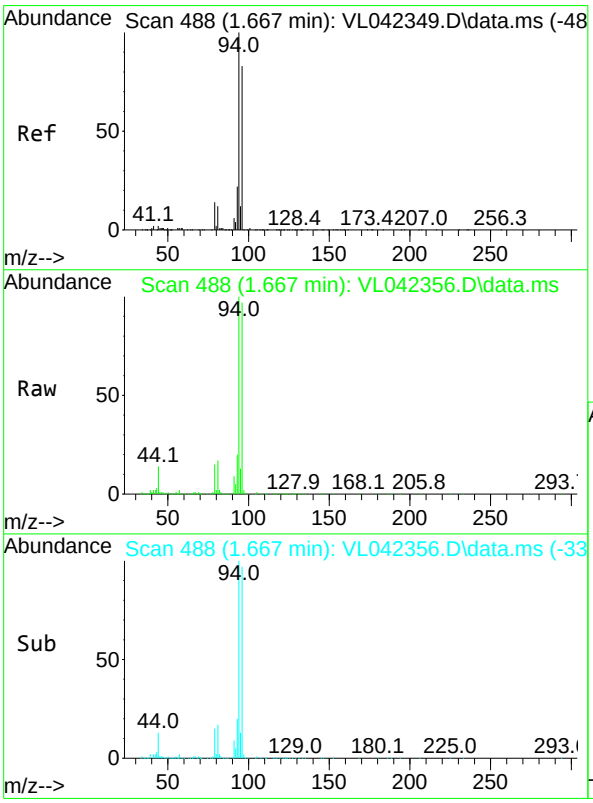
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 33.3 | 25.4 | 38.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

**Manual Integrations**
**APPROVED**

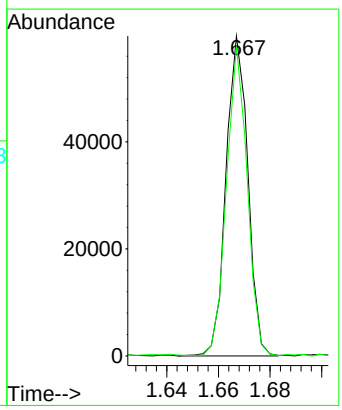
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

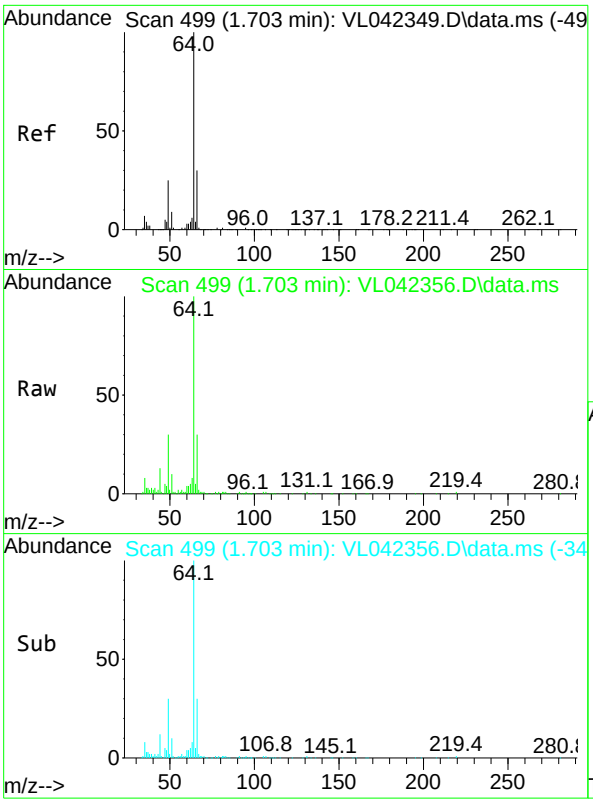



#6
Bromomethane
Concen: 9.422 ppbv
RT: 1.667 min Scan# 488
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 94 Resp: 35115

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 96.8 | 66.2 | 99.2 |

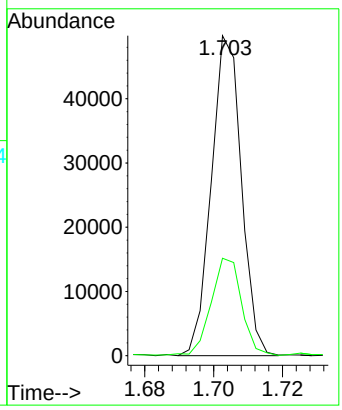





#7
Chloroethane
Concen: 9.612 ppbv
RT: 1.703 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 64 Resp: 3015

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 30.4 | 24.6 | 37.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

**Manual Integrations**
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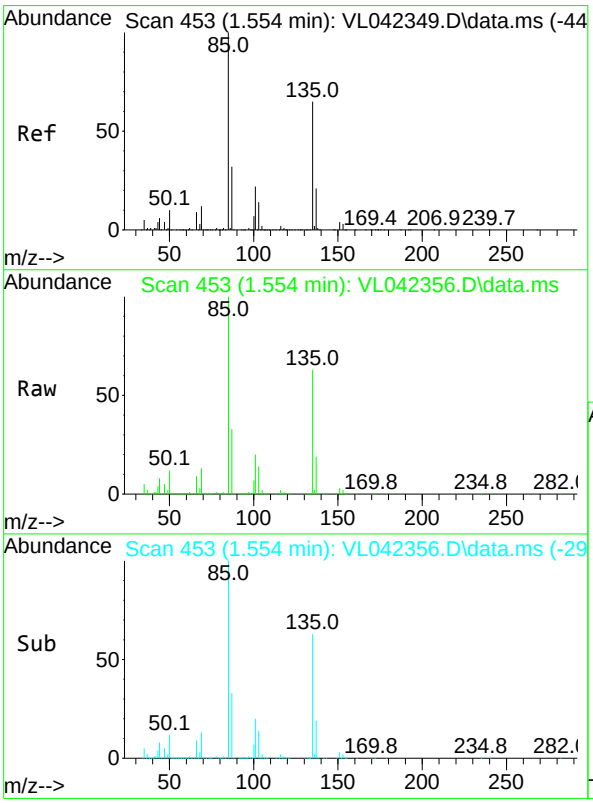
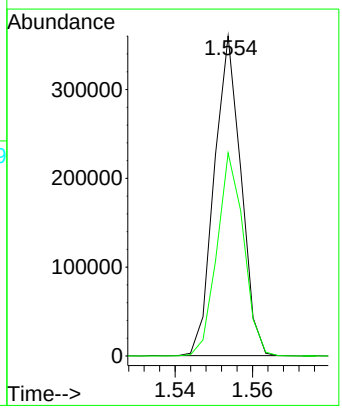
Supervised By :Mahesh Dadoda 04/18/2025

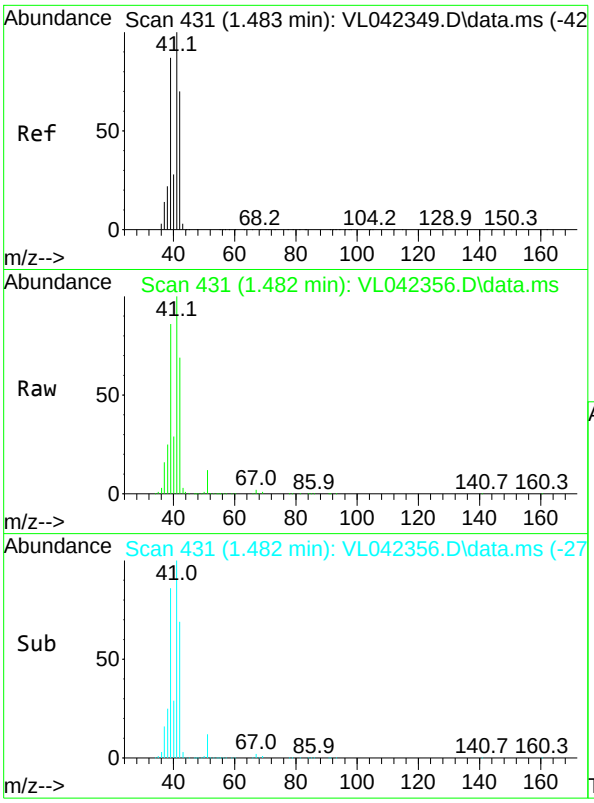



#8
Dichlorotetrafluoroethane
Concen: 9.997 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 85 Resp: 172863

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 63.5 | 52.2 | 78.2 |

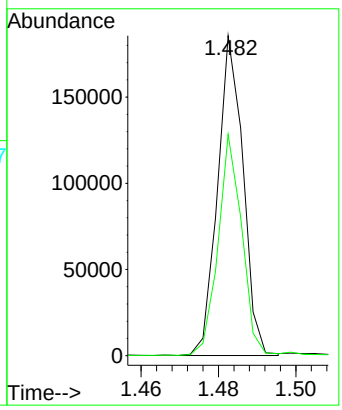





#9
Propene
Concen: 9.690 ppbv
RT: 1.482 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 41 Resp: 8463

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 65.8 | 56.2 | 84.4 |




**Instrument :**
MSVOA_L
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ICVVL041725

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Reviewed By :Semsettin Yesilyurt 04/18/2025
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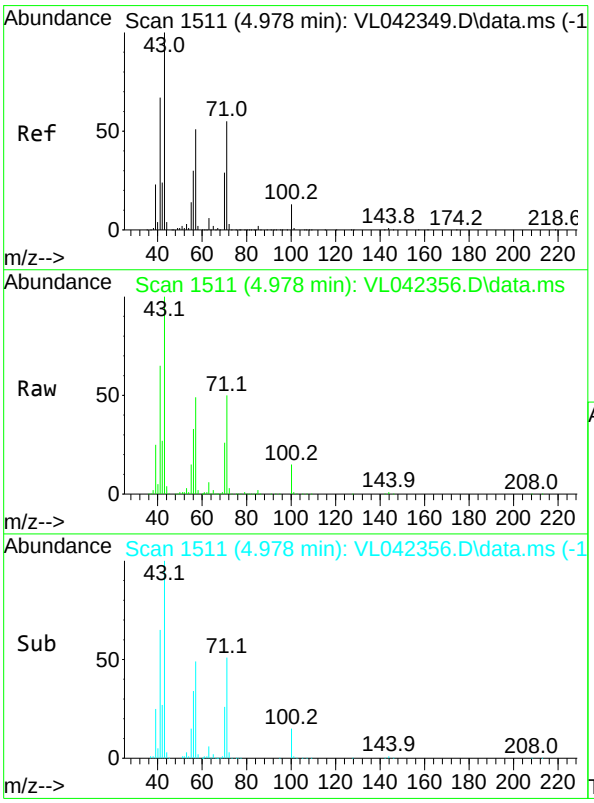
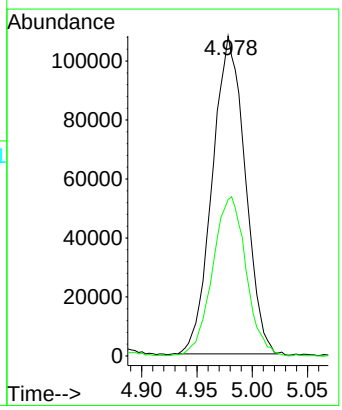
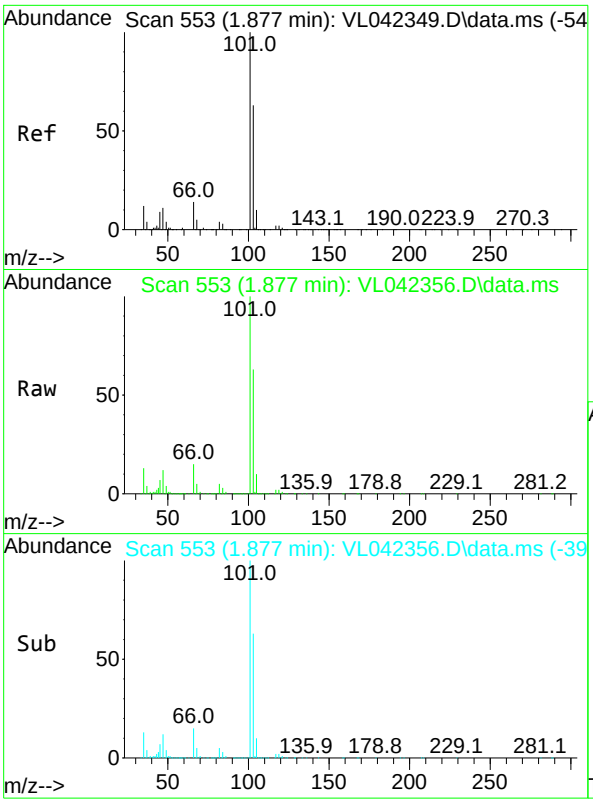



#10
Heptane
Concen: 9.041 ppbv
RT: 4.978 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 43 Resp: 221840

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 51.4 | 39.9 | 59.9 |






#11
Trichlorofluoromethane
Concen: 9.807 ppbv
RT: 1.877 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:101 Resp: 18782

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.3 | 50.1 | 75.1 |

**Instrument :**
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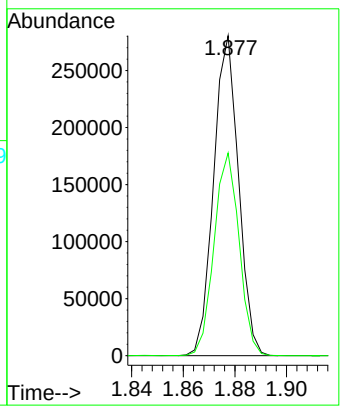
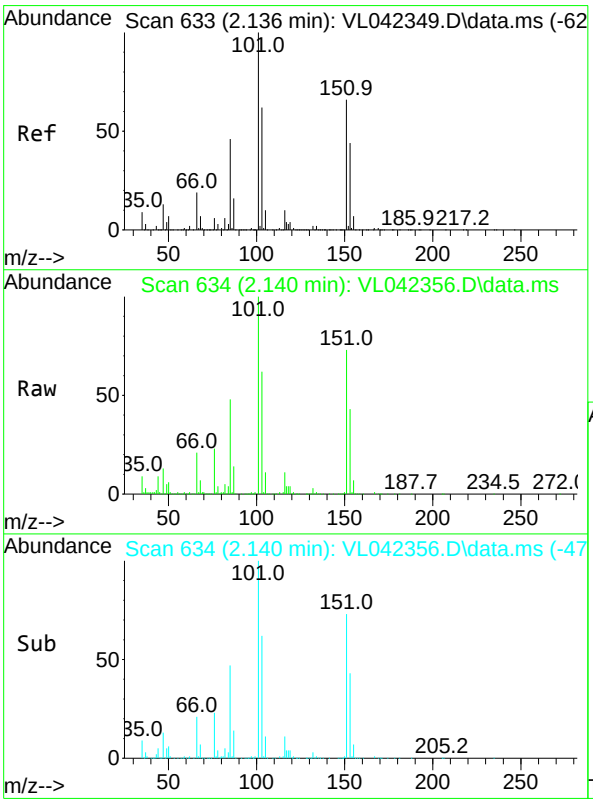
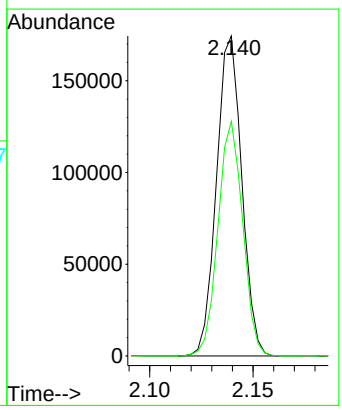


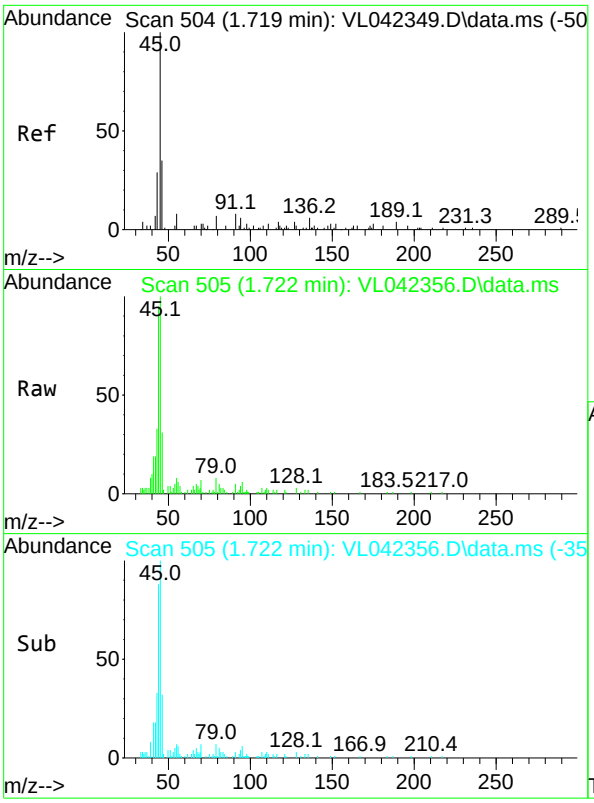




#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.482 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:101 Resp: 148485

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 71.7 | 57.0 | 85.6 |

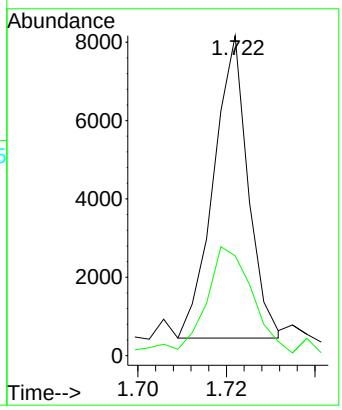





#13
Ethanol
Concen: 3.005 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 45 Resp: 417

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 57.0 | 21.9 | 87.7 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

**Manual Integrations**
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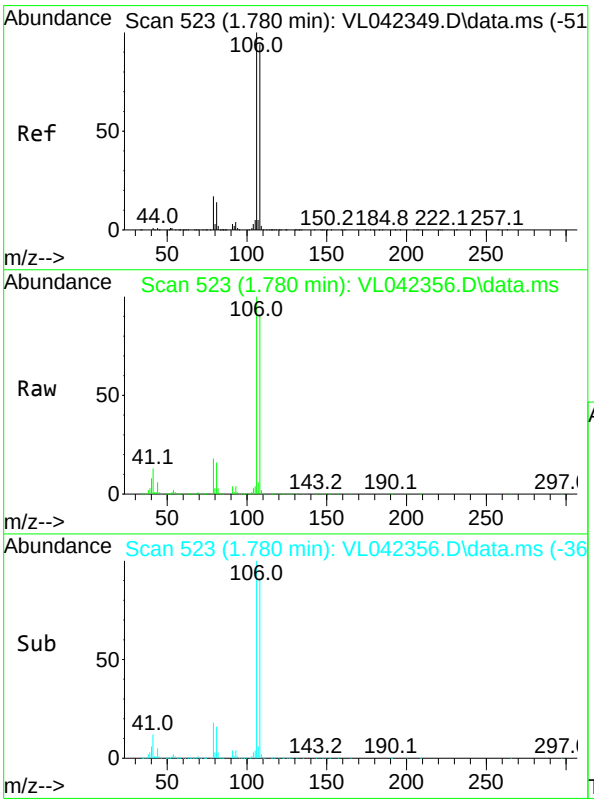
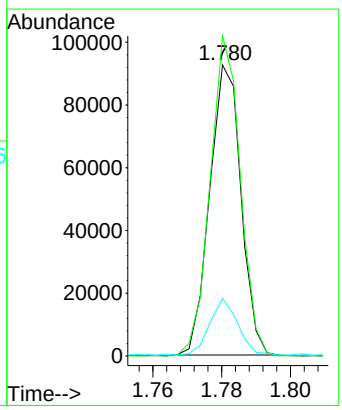
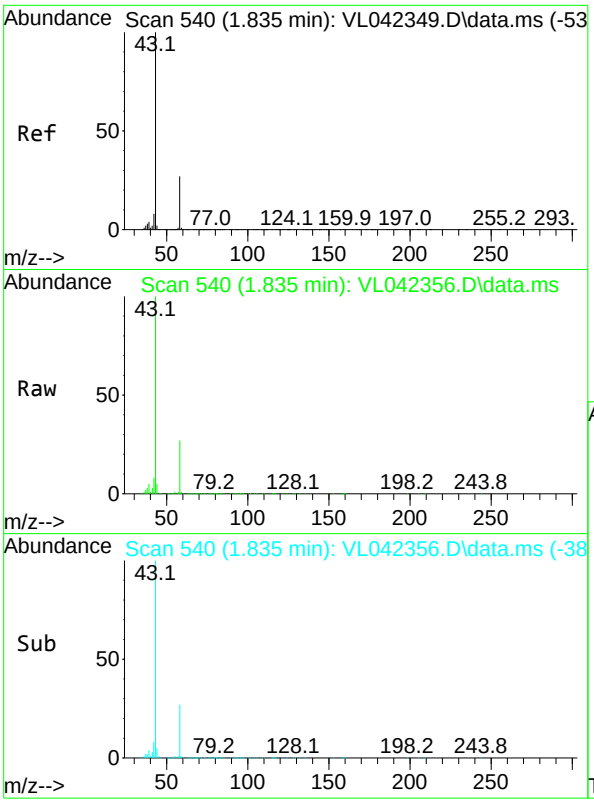



#14
Bromoethene
Concen: 9.880 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:108 Resp: 58320

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 106 | 107.1 | 85.9 | 128.9 |
| 79 | 18.4 | 13.9 | 20.9 |

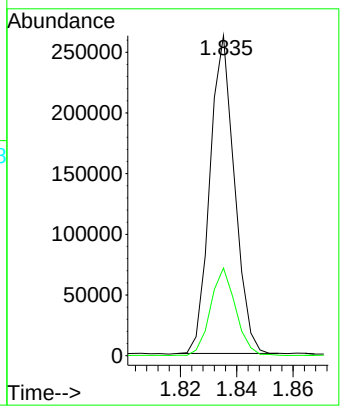





#15
Acetone
Concen: 8.505 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 43 Resp: 15870

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 28.0 | 22.4 | 33.6 |




**Instrument :**
MSVOA_L
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ICVVL041725

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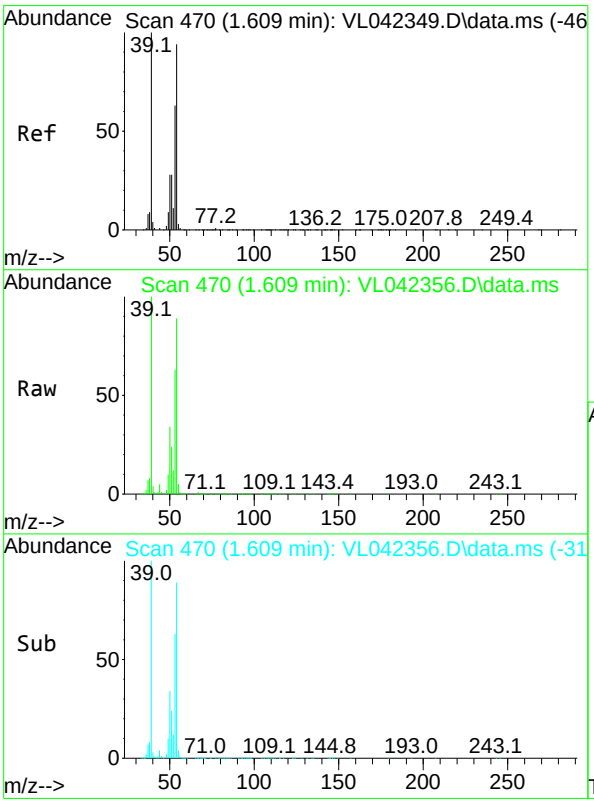
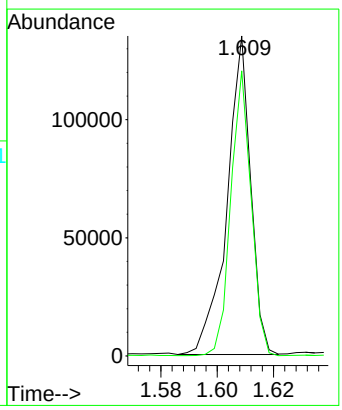
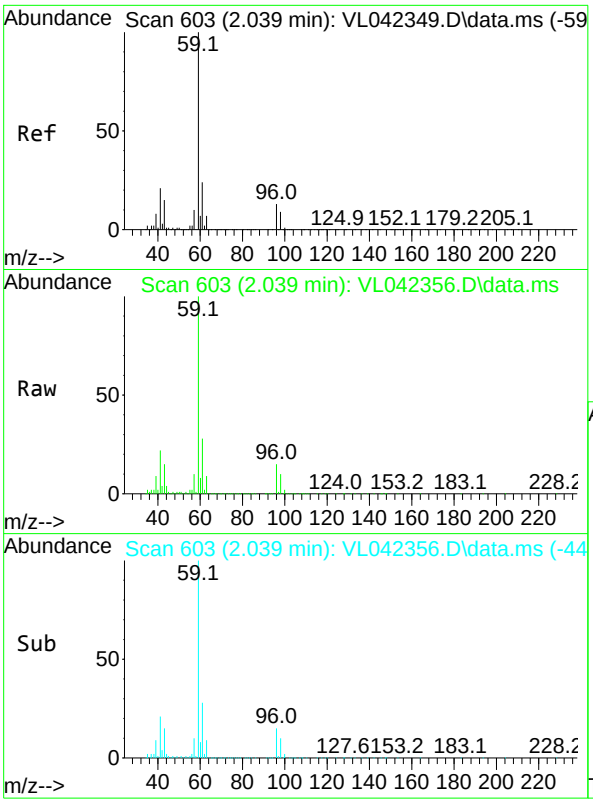



#16
1,3-Butadiene
Concen: 8.829 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 39 Resp: 78804

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 77.1 | 64.9 | 97.3 |

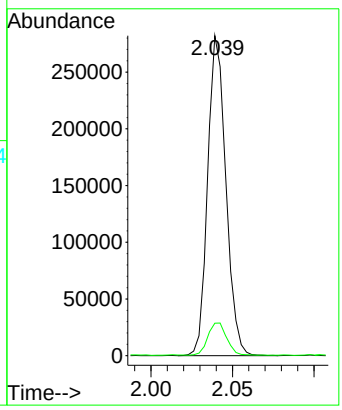





#17
tert-Butyl alcohol
Concen: 9.468 ppbv
RT: 2.039 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 59 Resp: 21895

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.6 | 8.7 | 13.1 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

**Manual Integrations**
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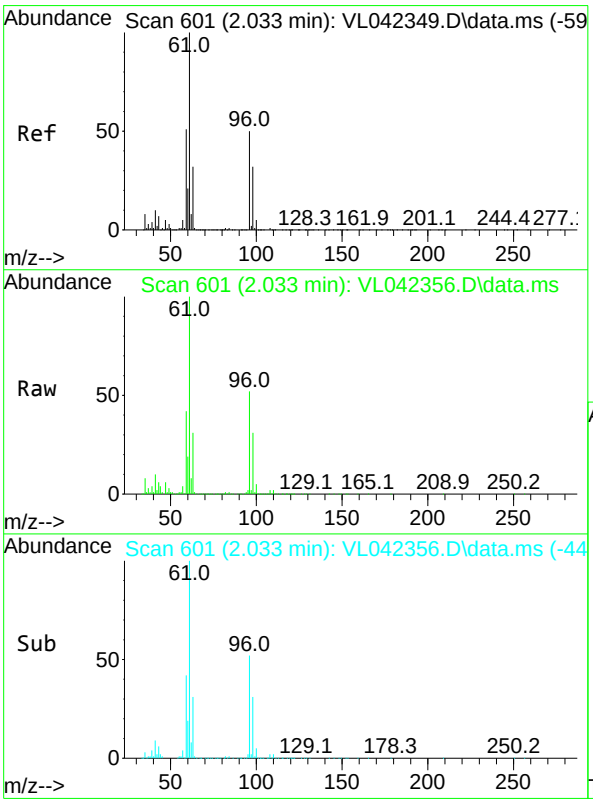
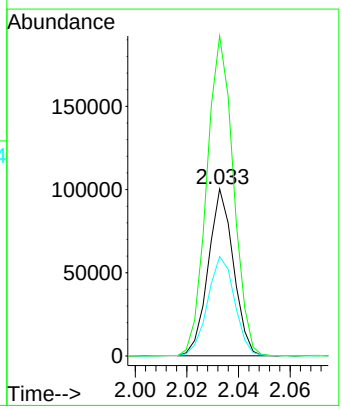
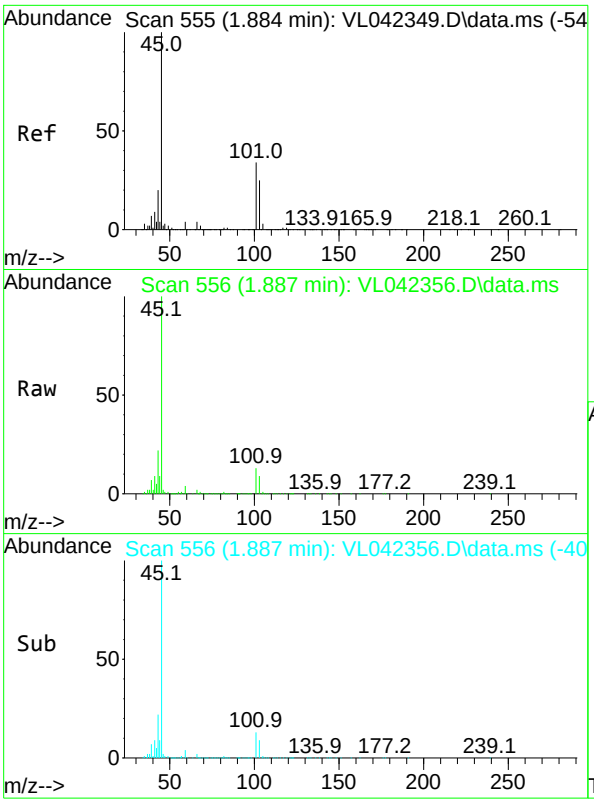



#18
1,1-Dichloroethene
Concen: 9.287 ppbv
RT: 2.033 min Scan# 601
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 96 Resp: 67940

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 191.6 | 160.2 | 240.2 |
| 98 | 59.4 | 51.0 | 76.4 |

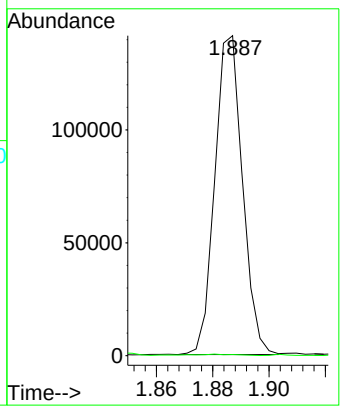





#19
Isopropyl Alcohol
Concen: 9.296 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 45 Resp: 9636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 46.1 | 34.5 | 51.7 |

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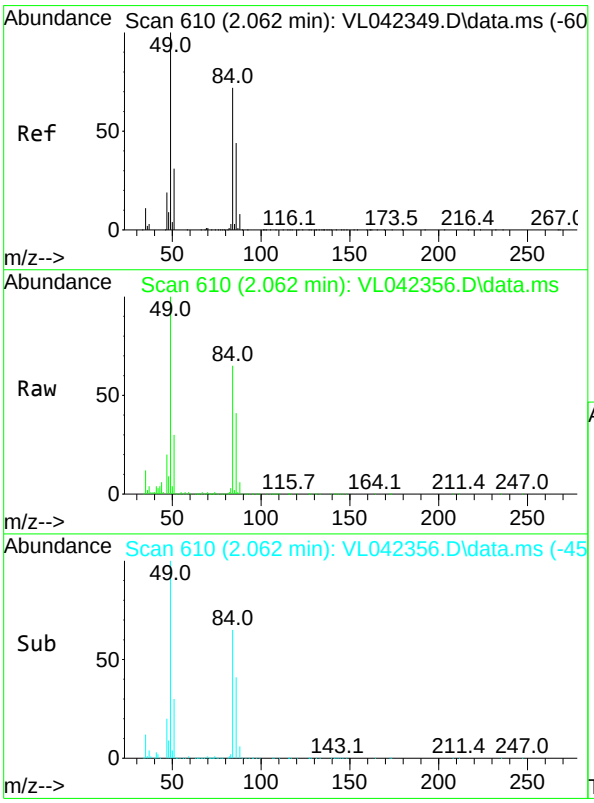
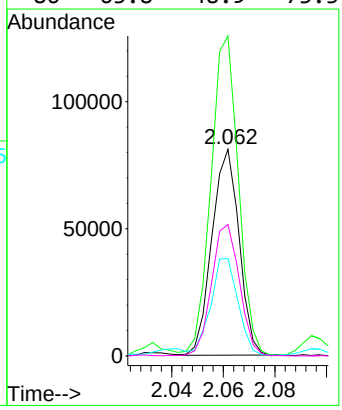
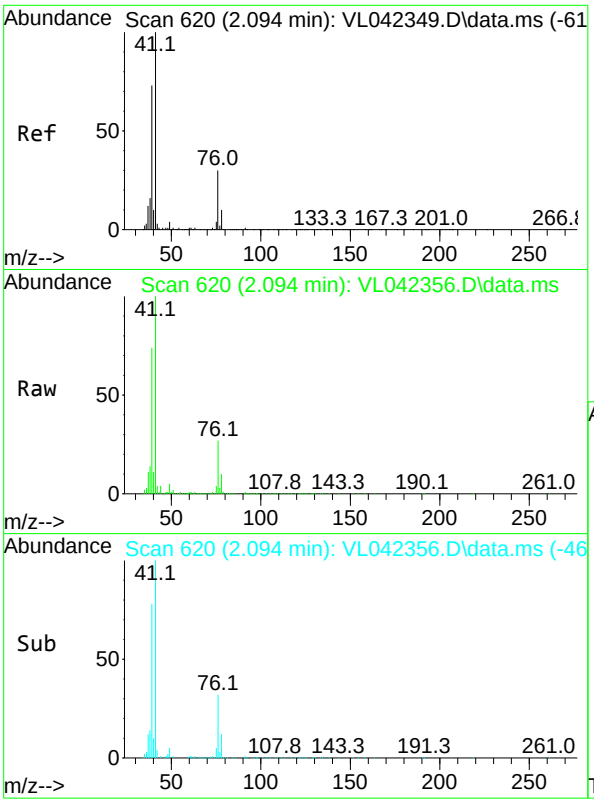



#20
Methylene Chloride
Concen: 8.101 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 84 Resp: 59203

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 155.3 | 111.6 | 167.4 |
| 51 | 47.0 | 35.1 | 52.7 |
| 86 | 63.8 | 48.9 | 73.3 |

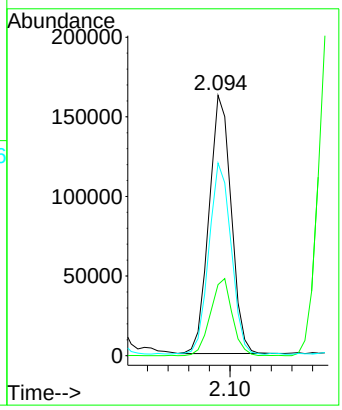





#21
Allyl Chloride
Concen: 9.368 ppbv
RT: 2.094 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 41 Resp: 12070

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 29.5 | 24.8 | 37.2 |
| 39 | 74.5 | 60.6 | 90.8 |

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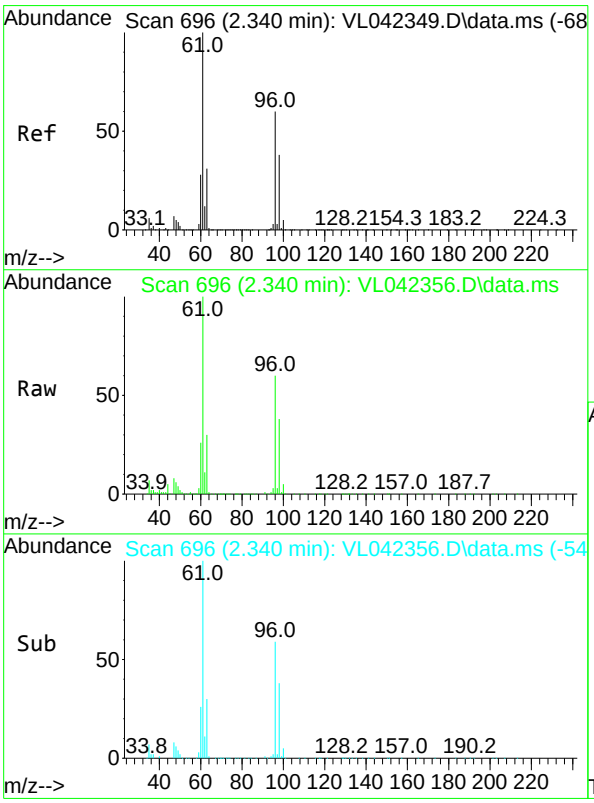
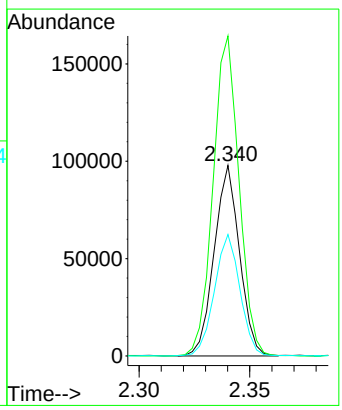
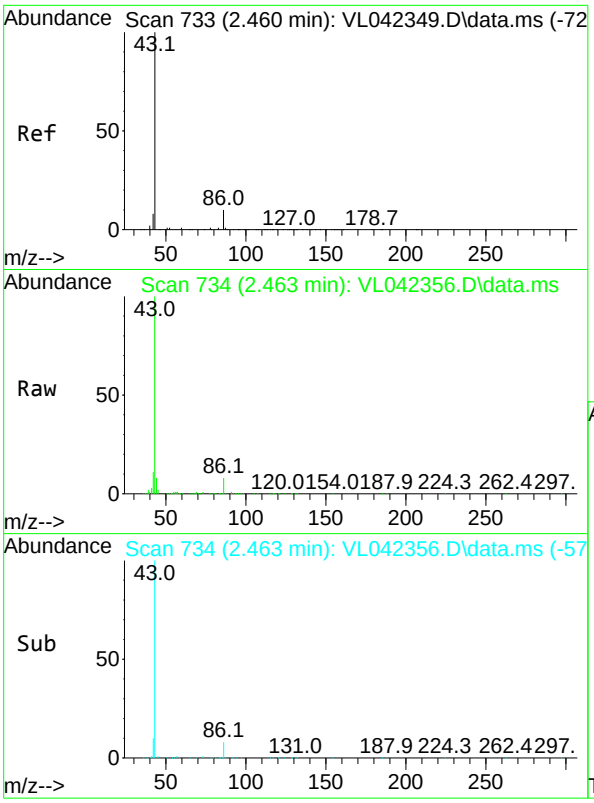



#22
trans-1,2-Dichloroethene
Concen: 9.373 ppbv
RT: 2.340 min Scan# 696
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 96 Resp: 78070

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 167.7 | 133.7 | 200.5 |
| 98 | 63.5 | 50.3 | 75.5 |

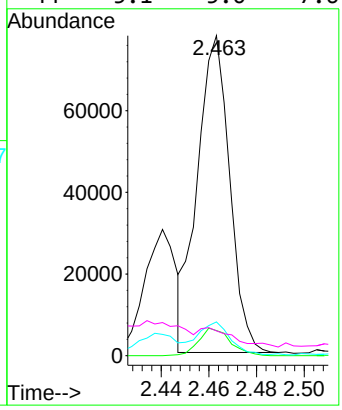





#23
Vinyl Acetate
Concen: 9.714 ppbv
RT: 2.463 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 43 Resp: 7337

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 8.0 | 6.5 | 9.7 |
| 42 | 10.0 | 7.8 | 11.8 |
| 44 | 5.1 | 5.0 | 7.6 |

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MSVOA_L
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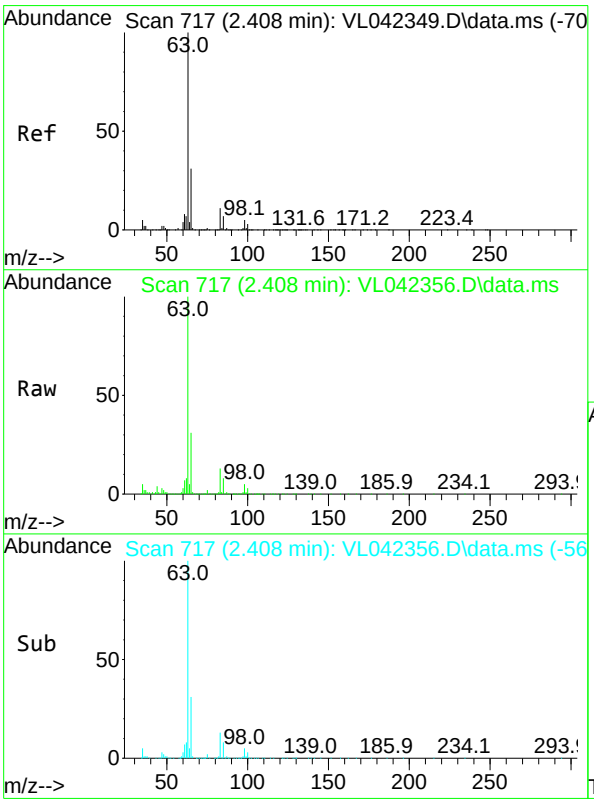
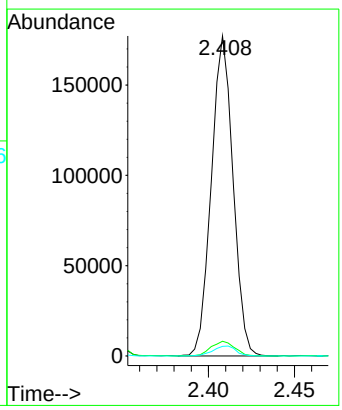
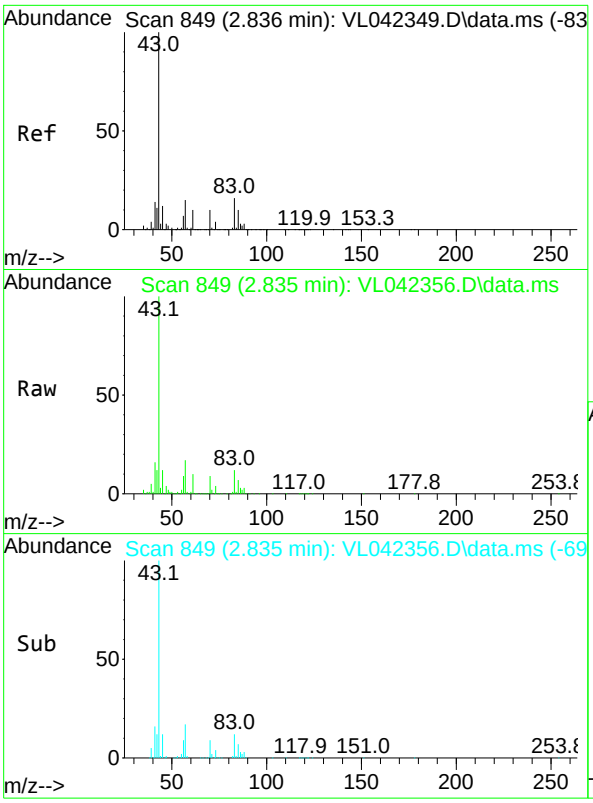



#24
1,1-Dichloroethane
Concen: 9.832 ppbv
RT: 2.408 min Scan# 717
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 63 Resp: 155571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 4.6 | 2.3 | 6.8 |
| 100 | 3.0 | 1.6 | 4.8 |

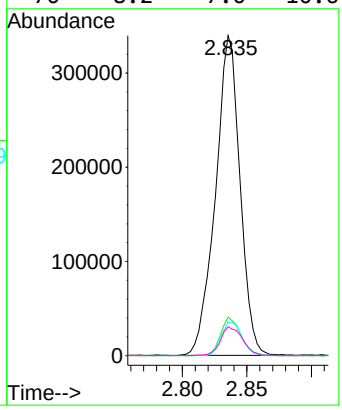





#25
Ethyl Acetate
Concen: 9.759 ppbv
RT: 2.835 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 43 Resp: 449014

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 9.9 | 8.3 | 12.5 |
| 61 | 9.0 | 7.3 | 10.9 |
| 70 | 8.2 | 7.0 | 10.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

**Manual Integrations**
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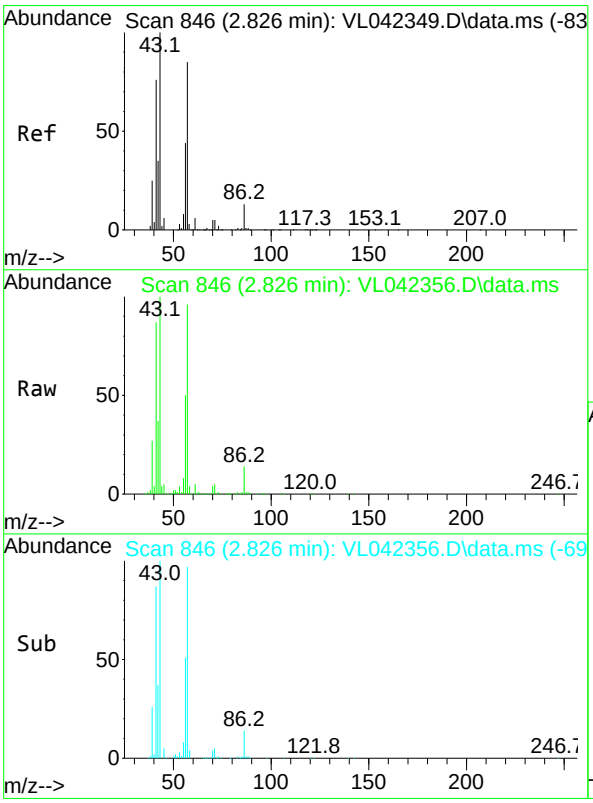
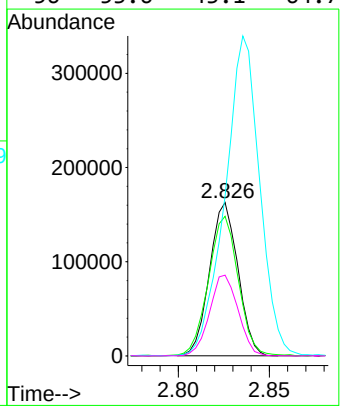
Supervised By :Mahesh Dadoda 04/18/2025

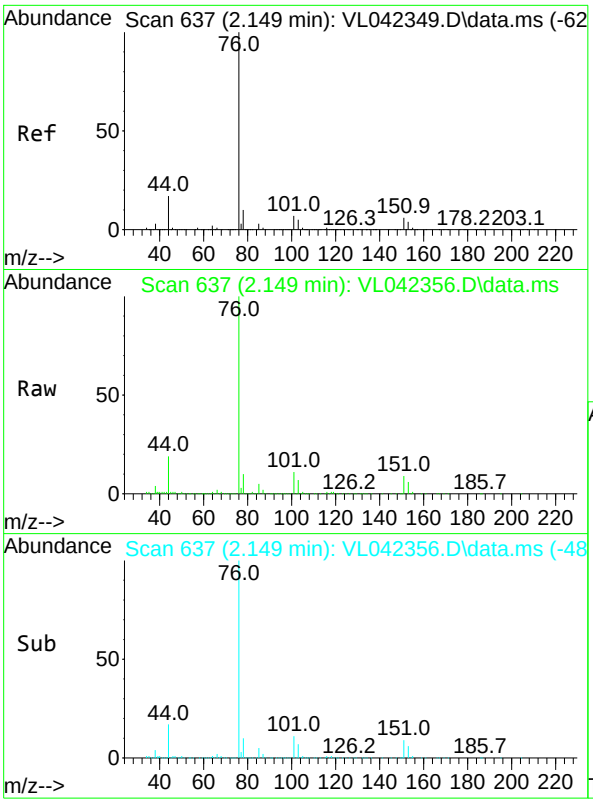



#26
Hexane
Concen: 9.439 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 57 Resp: 175752

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 96.6 | 77.9 | 116.9 |
| 43 | 256.0 | 208.4 | 312.6 |
| 56 | 53.6 | 43.1 | 64.7 |

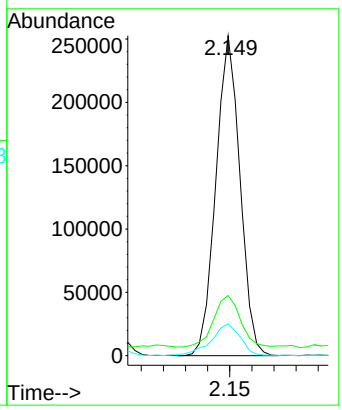





#27
Carbon Disulfide
Concen: 9.587 ppbv
RT: 2.149 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 76 Resp: 19111

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 19.3 | 15.5 | 23.3 |
| 78 | 11.9 | 9.3 | 13.9 |




**Instrument :**
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ICVVL041725

**Manual Integrations**
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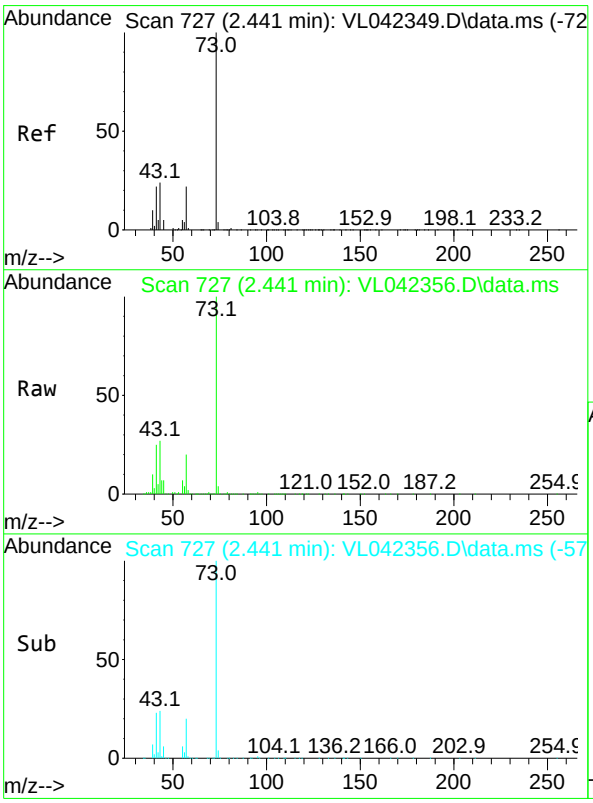
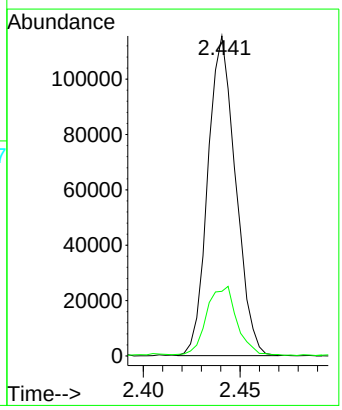
Supervised By :Mahesh Dadoda 04/18/2025

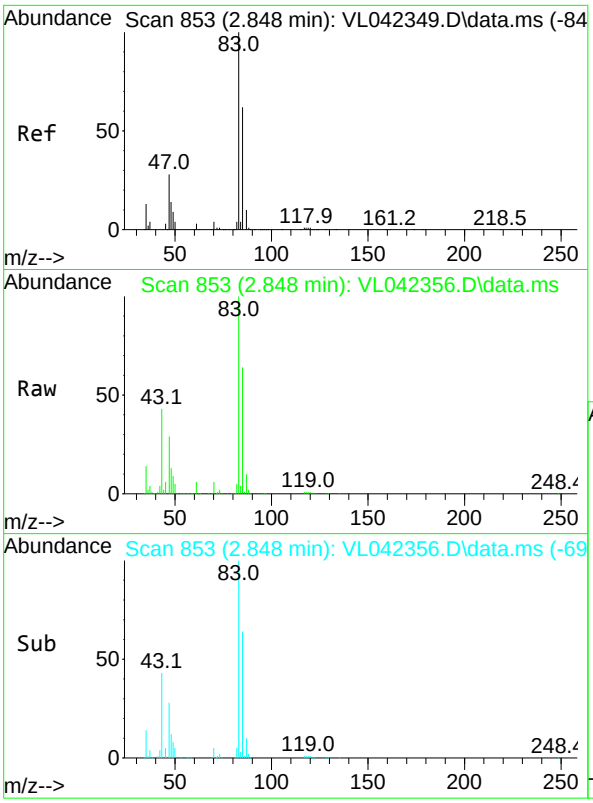



#28
Methyl tert-Butyl Ether
Concen: 9.442 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 73 Resp: 115190

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 23.4 | 21.3 | 31.9 |

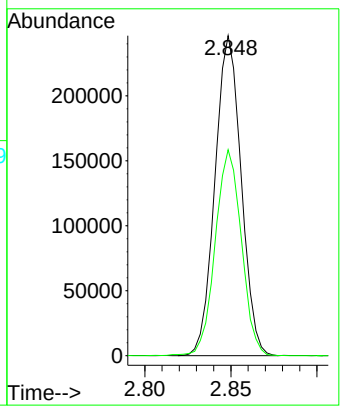





#29
Chloroform
Concen: 9.912 ppbv
RT: 2.848 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 83 Resp: 26085

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.3 | 50.0 | 75.0 |

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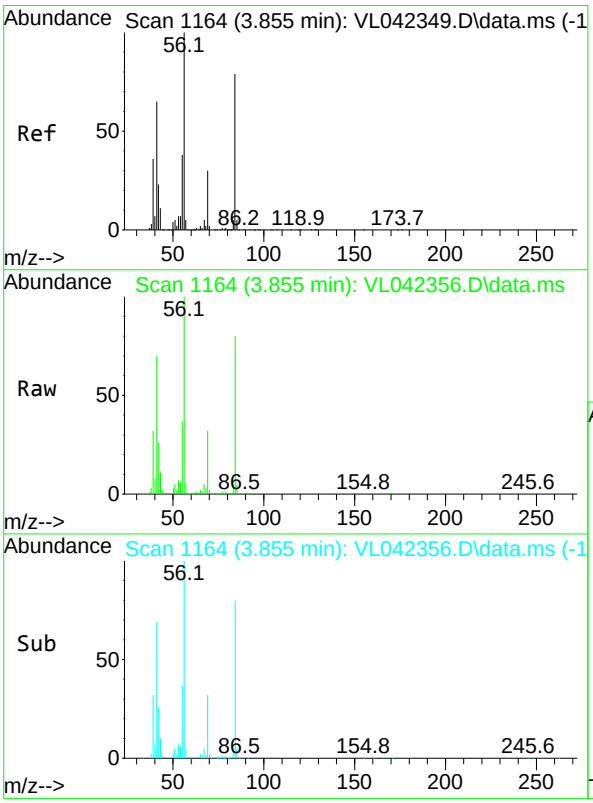
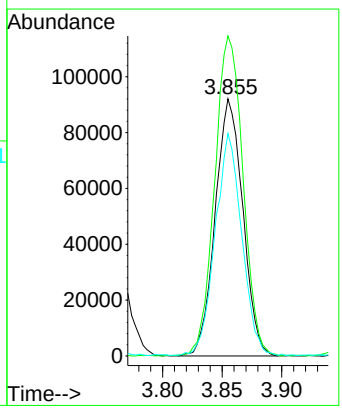
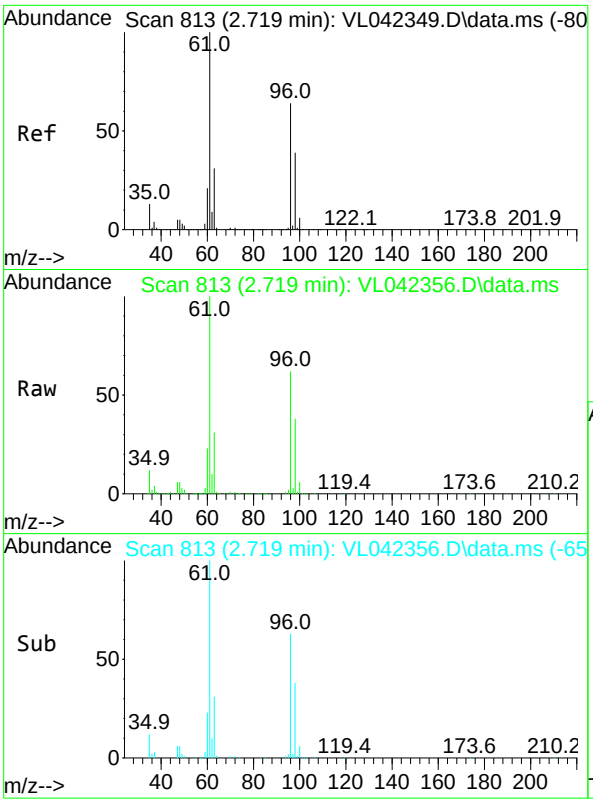



#30
Cyclohexane
Concen: 9.849 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 84 Resp: 148246

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 127.7 | 101.0 | 151.4 |
| 41 | 83.2 | 67.4 | 101.0 |

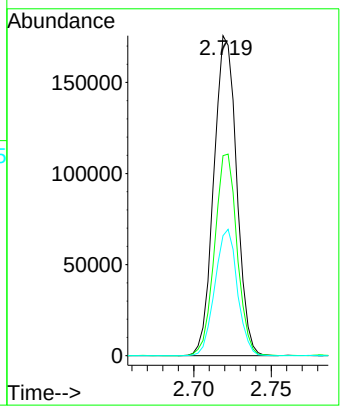





#31
cis-1,2-Dichloroethene
Concen: 10.167 ppbv
RT: 2.719 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 61 Resp: 17999

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 62.5 | 50.8 | 76.2 |
| 98 | 37.5 | 30.9 | 46.3 |

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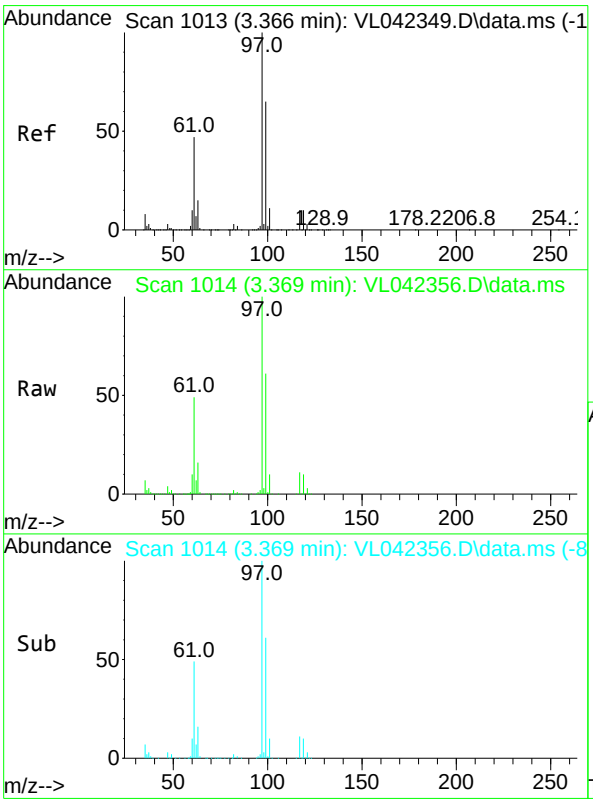
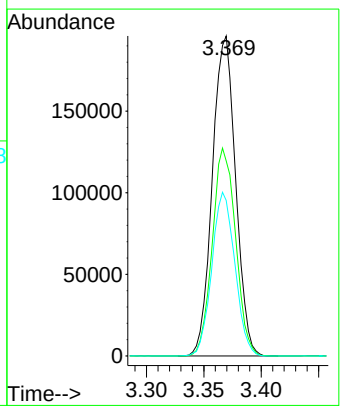
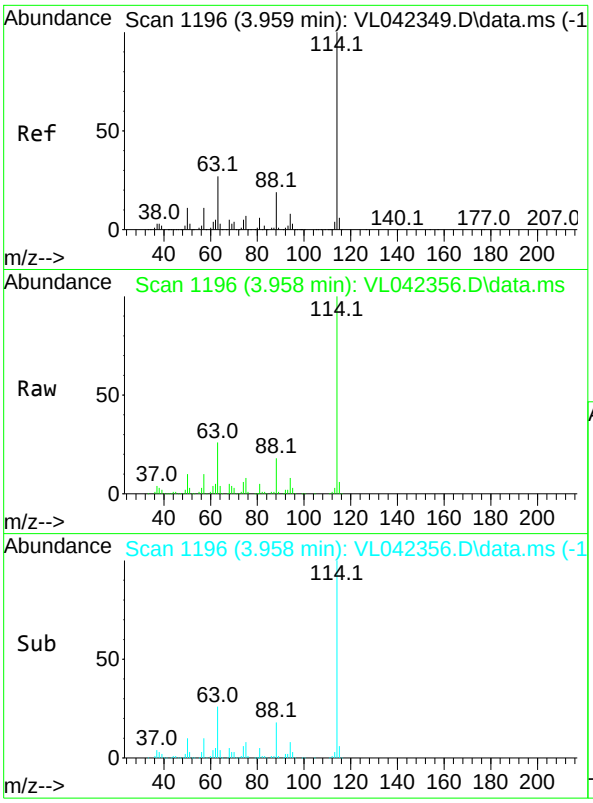



#32
1,1,1-Trichloroethane
Concen: 9.336 ppbv
RT: 3.369 min Scan# 1014
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 97 Resp: 276599

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 65.0 | 51.0 | 76.4 |
| 61 | 50.7 | 38.8 | 58.2 |

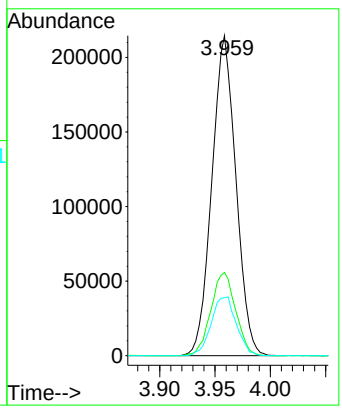





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.958 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:114 Resp: 32452

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 26.8 | 21.8 | 32.6 |
| 88 | 19.2 | 15.5 | 23.3 |

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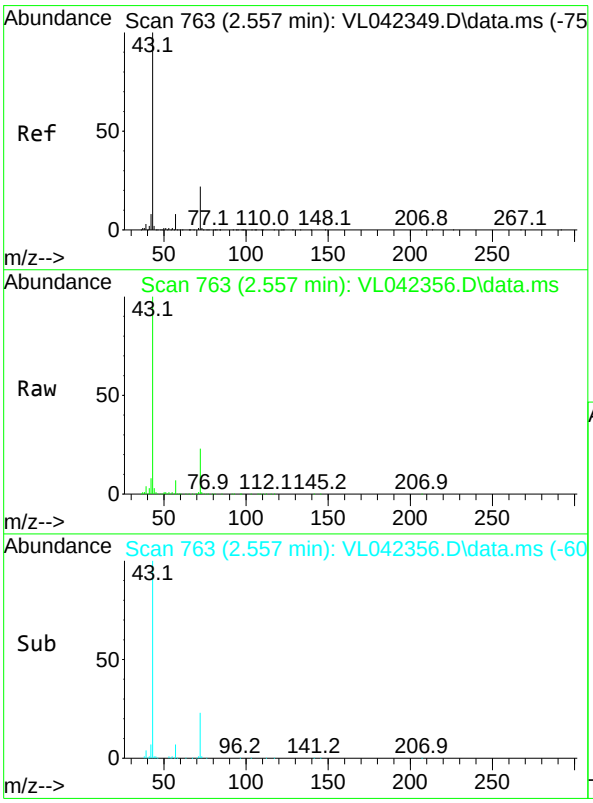
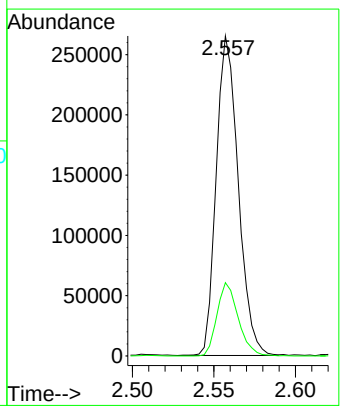
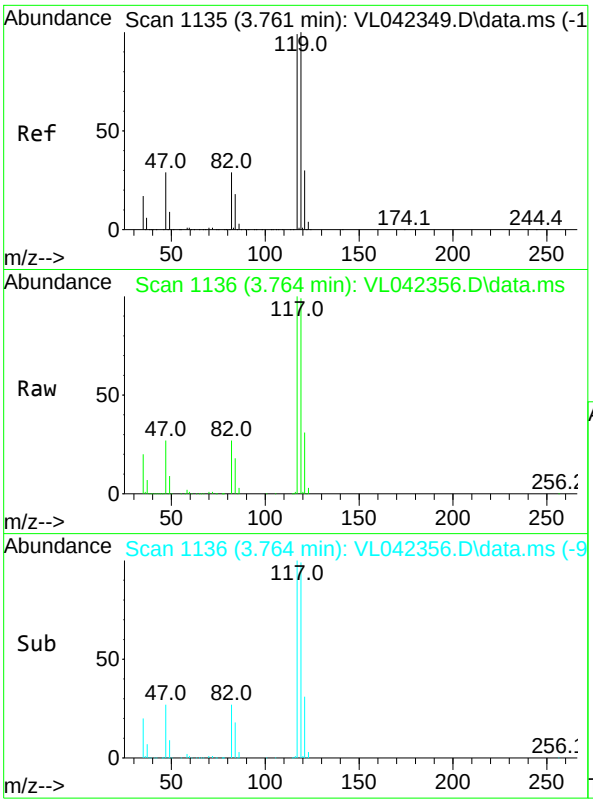



#34
2-Butanone
Concen: 9.700 ppbv
RT: 2.557 min Scan# 763
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 43 Resp: 248969

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 22.1 | 18.2 | 27.2 |

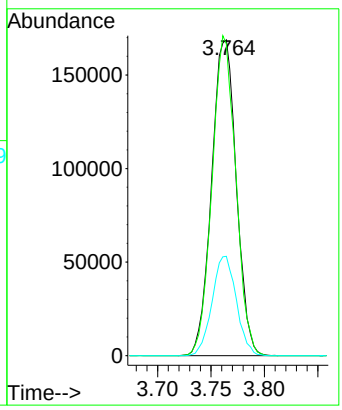





#35
Carbon Tetrachloride
Concen: 9.256 ppbv
RT: 3.764 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:117 Resp: 27186

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 98.7 | 80.5 | 120.7 |
| 121 | 31.5 | 24.2 | 36.2 |

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ICVVL041725

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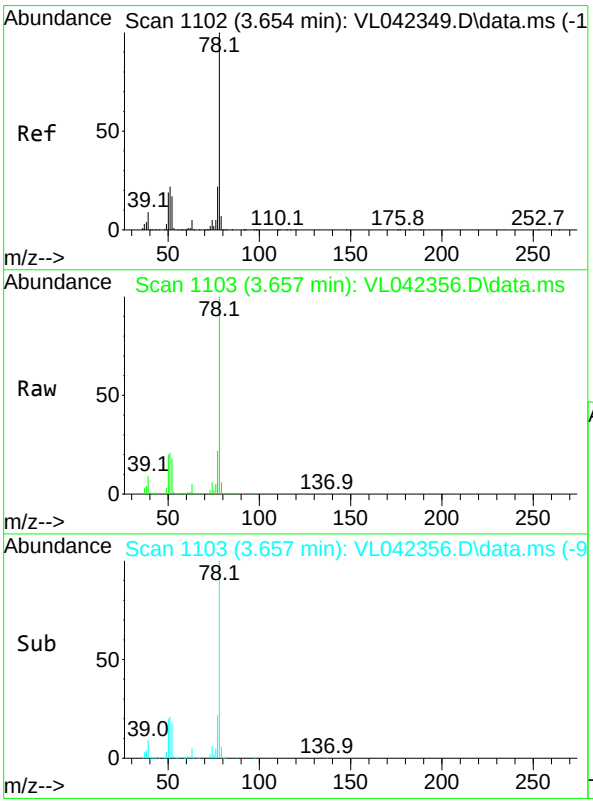
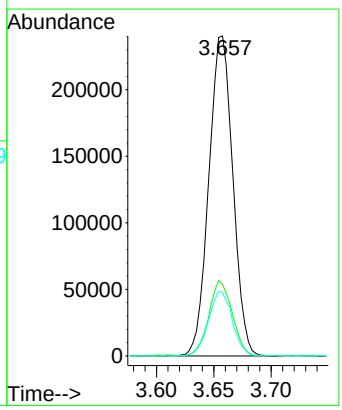
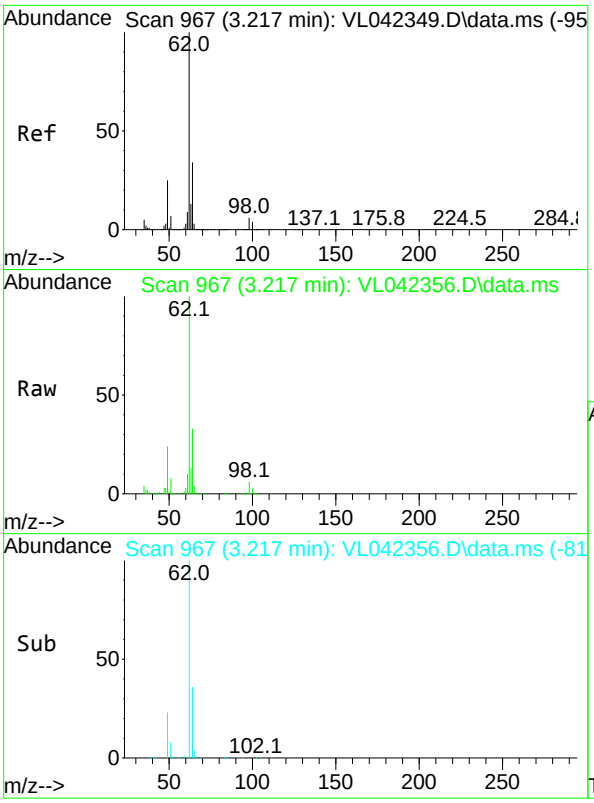



#36
Benzene
Concen: 10.014 ppbv
RT: 3.657 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 78 Resp: 350545

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 22.3 | 17.4 | 26.0 |
| 50 | 19.9 | 15.5 | 23.3 |

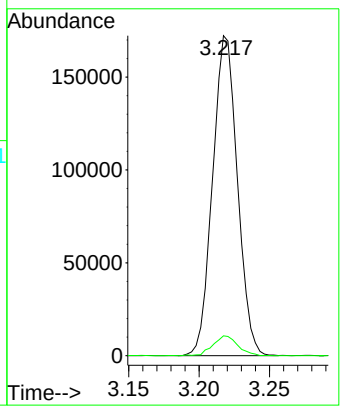





#37
1,2-Dichloroethane
Concen: 10.081 ppbv
RT: 3.217 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 62 Resp: 21179

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 6.2 | 5.1 | 7.7 |

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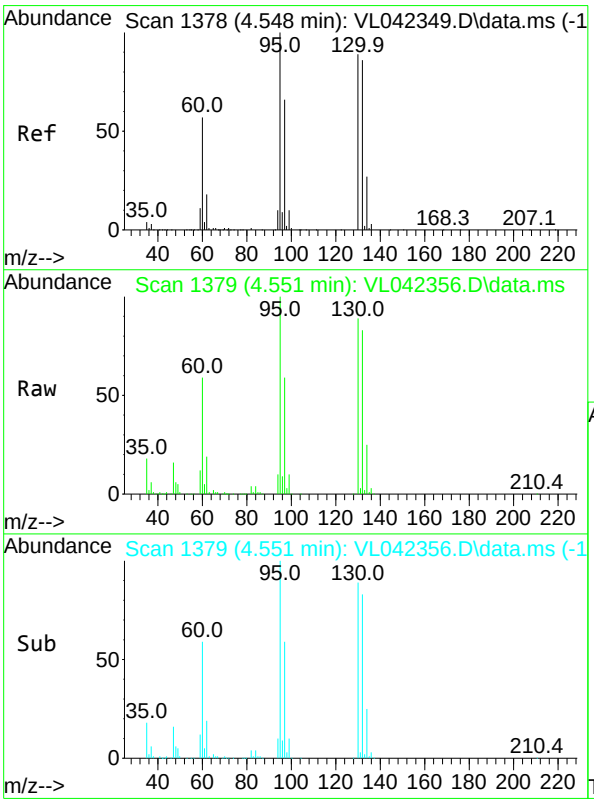
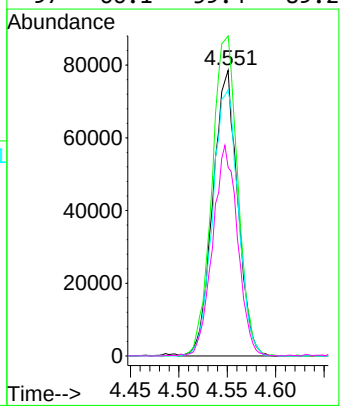
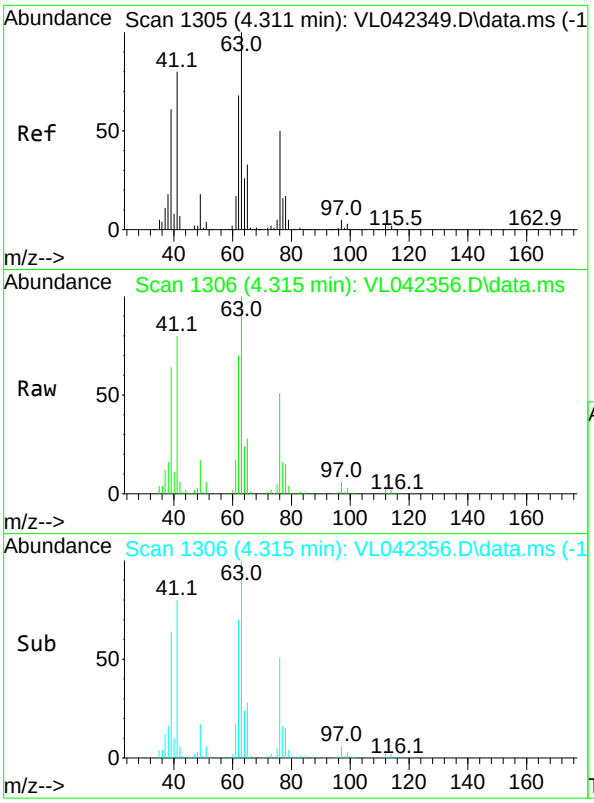



#38
Trichloroethene
Concen: 9.143 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:130 Resp: 139872

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 112.0 | 89.8 | 134.6 |
| 132 | 93.2 | 77.7 | 116.5 |
| 97 | 66.1 | 59.4 | 89.2 |

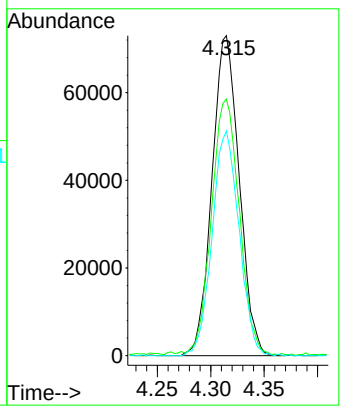





#39
1,2-Dichloropropane
Concen: 9.908 ppbv
RT: 4.315 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 63 Resp: 12923

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 79.9 | 64.2 | 96.2 |
| 62 | 70.2 | 54.3 | 81.5 |

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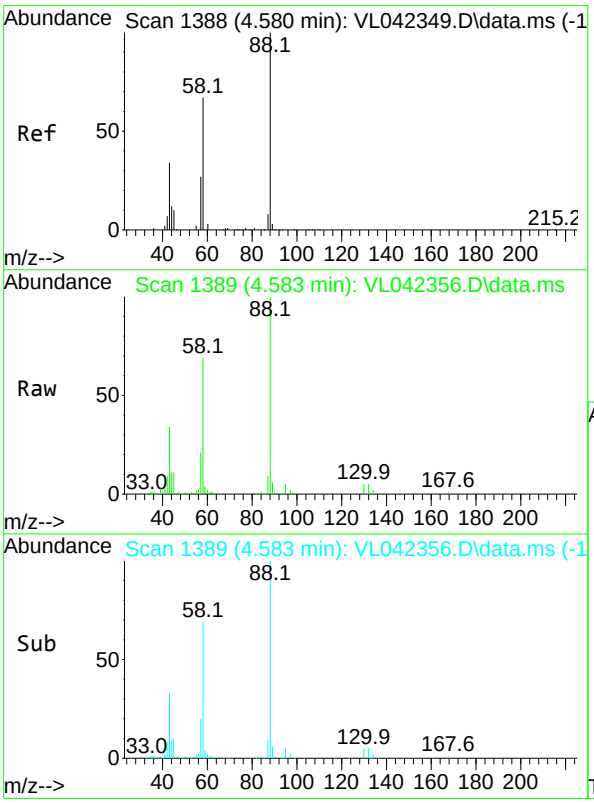
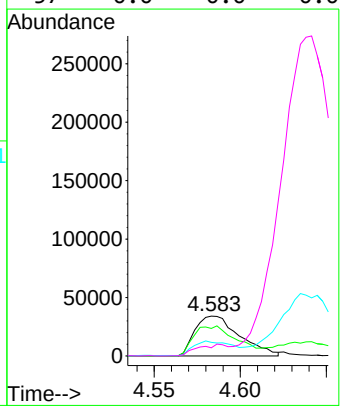
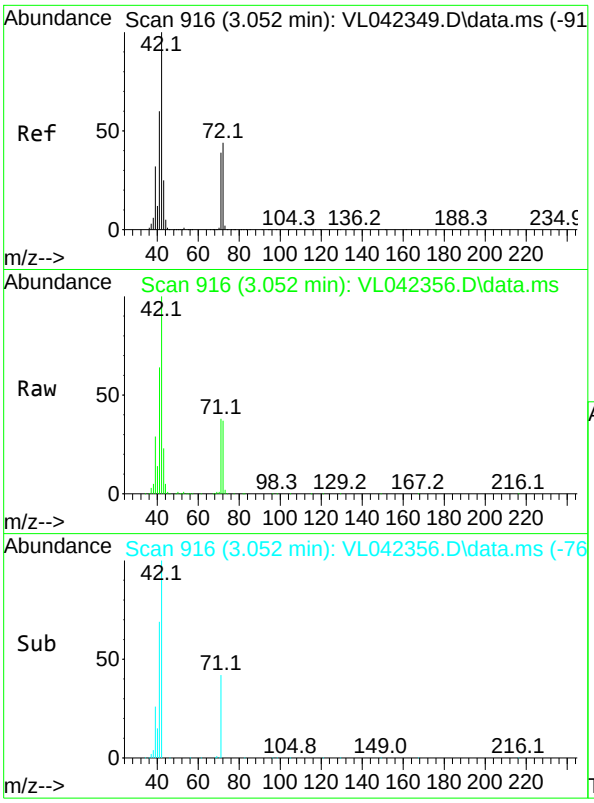



#40
1,4-Dioxane
Concen: 8.591 ppbv
RT: 4.583 min Scan# 1389
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 88 Resp: 61587

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 76.1 | 61.4 | 92.0 |
| 43 | 35.9 | 23.2 | 34.8# |
| 57 | 0.0 | 0.0 | 0.0 |

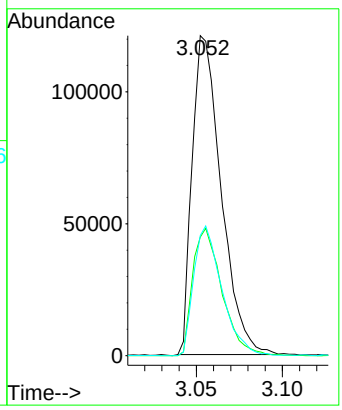





#41
Tetrahydrofuran
Concen: 9.479 ppbv
RT: 3.052 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 42 Resp: 14186

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 40.2 | 32.3 | 48.5 |
| 71 | 39.8 | 31.4 | 47.2 |

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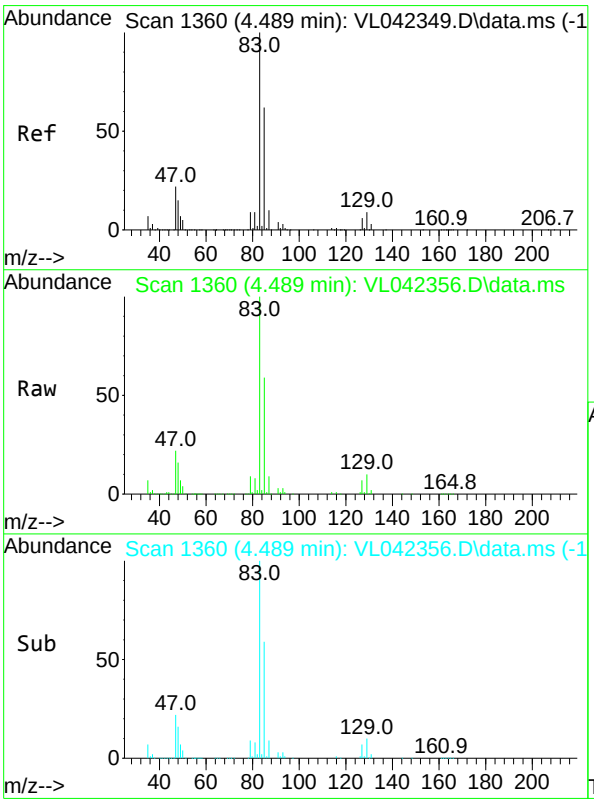
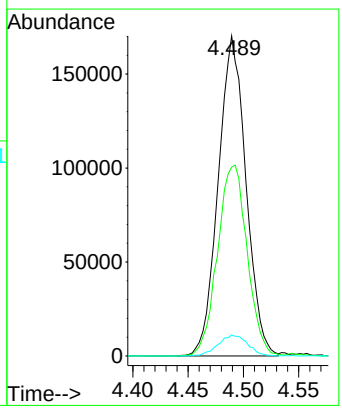
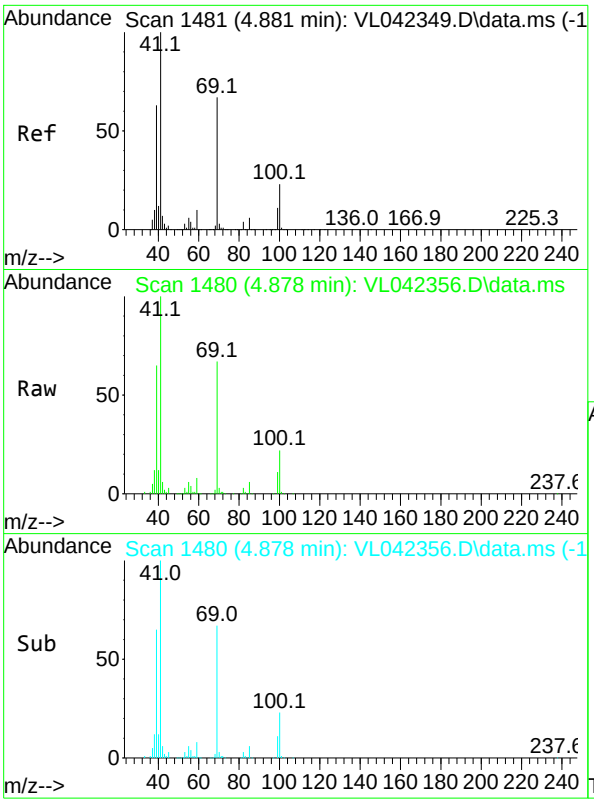



#42
Bromodichloromethane
Concen: 10.156 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 83 Resp: 296946

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 59.0 | 49.7 | 74.5 |
| 127 | 6.6 | 5.1 | 7.7 |

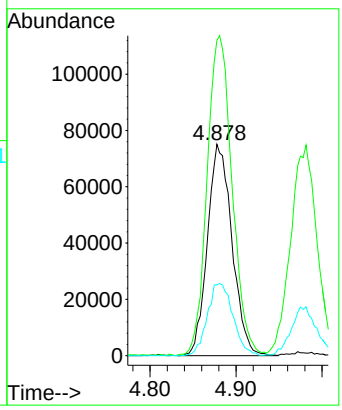





#43
Methyl Methacrylate
Concen: 9.458 ppbv
RT: 4.878 min Scan# 14
Delta R.T. -0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 69 Resp: 14920

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 154.1 | 118.6 | 177.8 |
| 100 | 35.5 | 28.2 | 42.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

**Manual Integrations**
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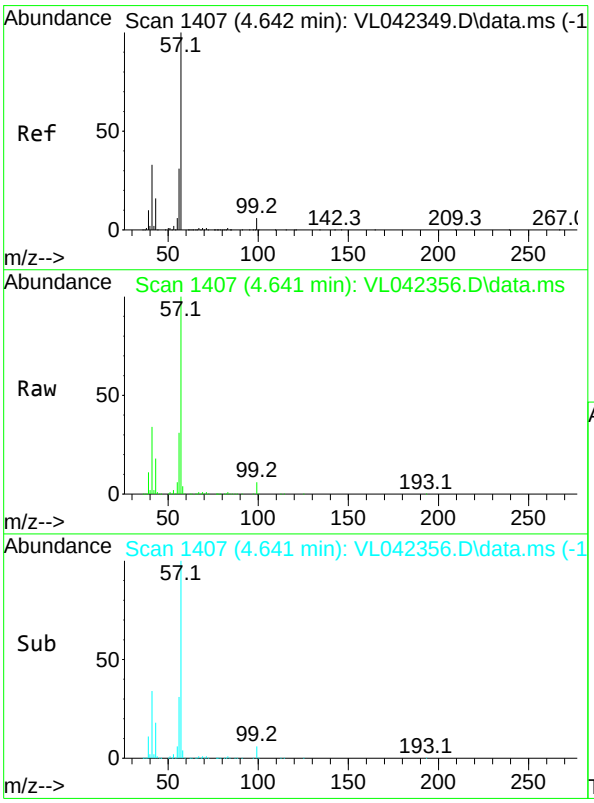
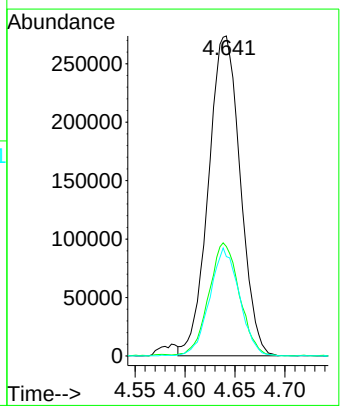
Supervised By :Mahesh Dadoda 04/18/2025

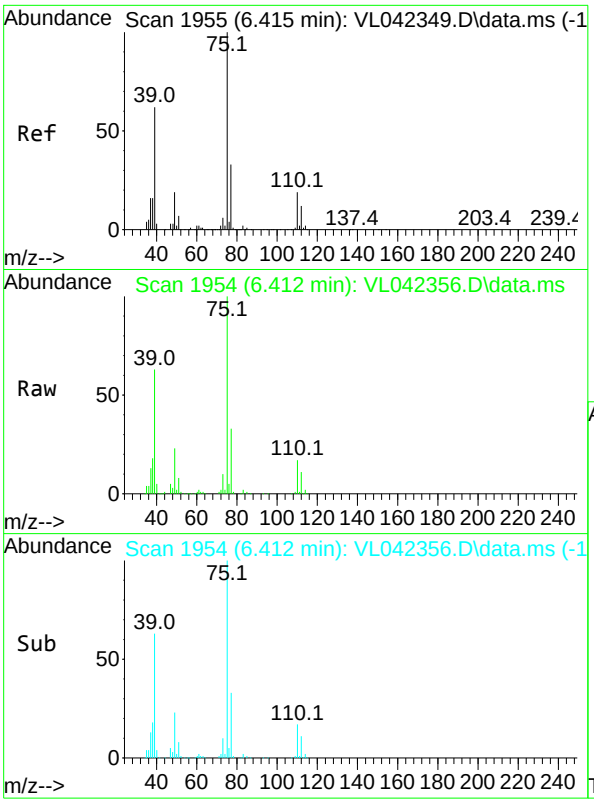



#44
2,2,4-Trimethylpentane
Concen: 10.030 ppbv
RT: 4.641 min Scan# 1407
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 57 Resp: 606376

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 34.3 | 27.2 | 40.8 |
| 56 | 31.6 | 25.7 | 38.5 |

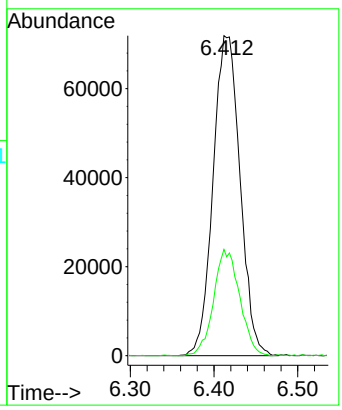





#45
t-1,3-Dichloropropene
Concen: 9.975 ppbv
RT: 6.412 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 75 Resp: 16075

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 33.2 | 27.0 | 40.6 |




**Instrument :**
MSVOA_L
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ICVVL041725

**Manual Integrations**
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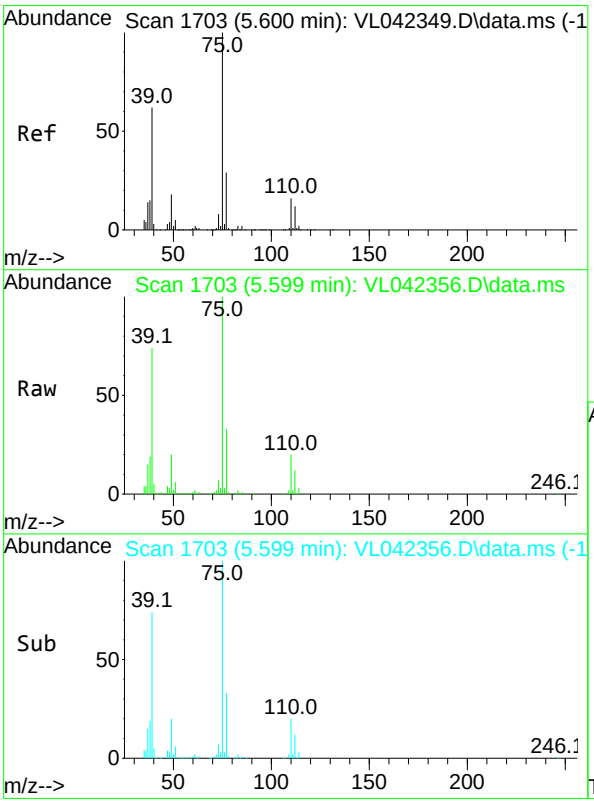
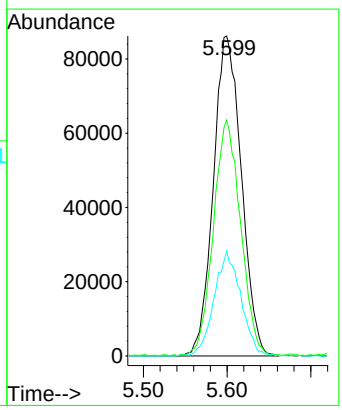
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

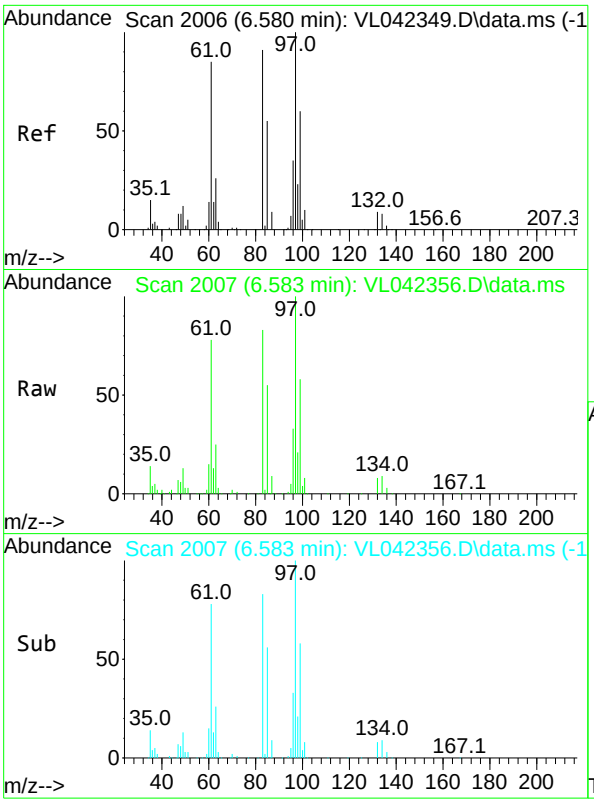



#46
cis-1,3-Dichloropropene
Concen: 10.148 ppbv
RT: 5.599 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 75 Resp: 200144

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 39 | 73.7 | 50.0 | 75.0 |
| 77 | 32.7 | 23.0 | 34.6 |

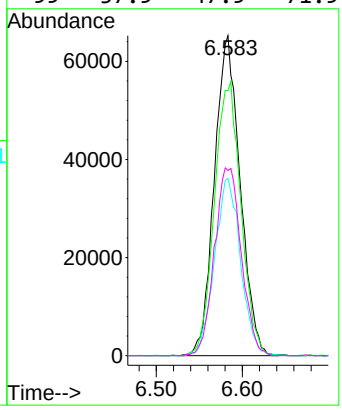





#47
1,1,2-Trichloroethane
Concen: 10.202 ppbv
RT: 6.583 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 97 Resp: 13557

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 82.8 | 72.8 | 109.2 |
| 85 | 55.5 | 44.2 | 66.4 |
| 99 | 57.9 | 47.9 | 71.9 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

**Manual Integrations**
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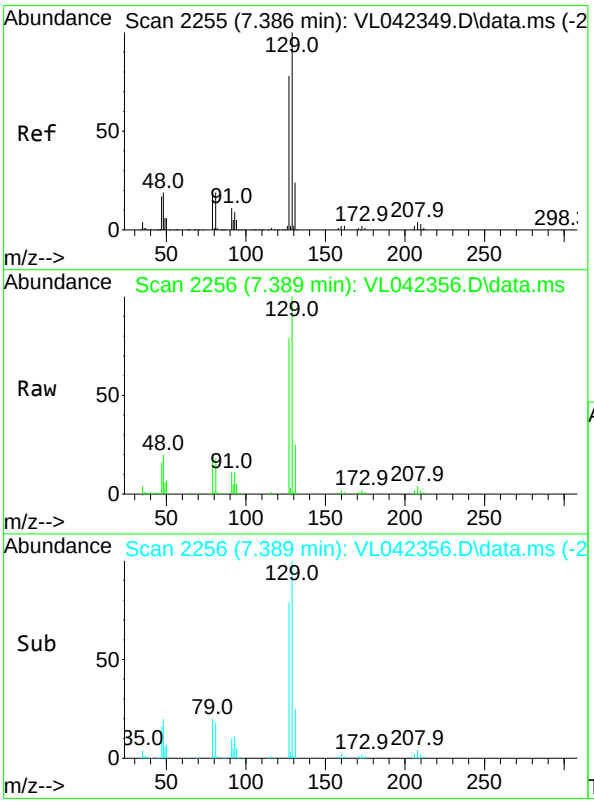
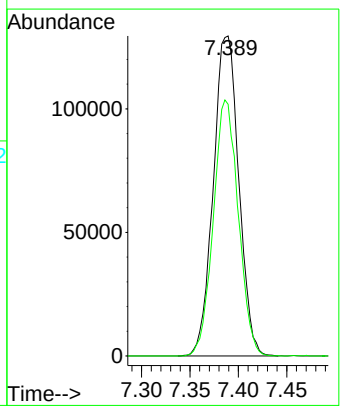
Supervised By :Mahesh Dadoda 04/18/2025

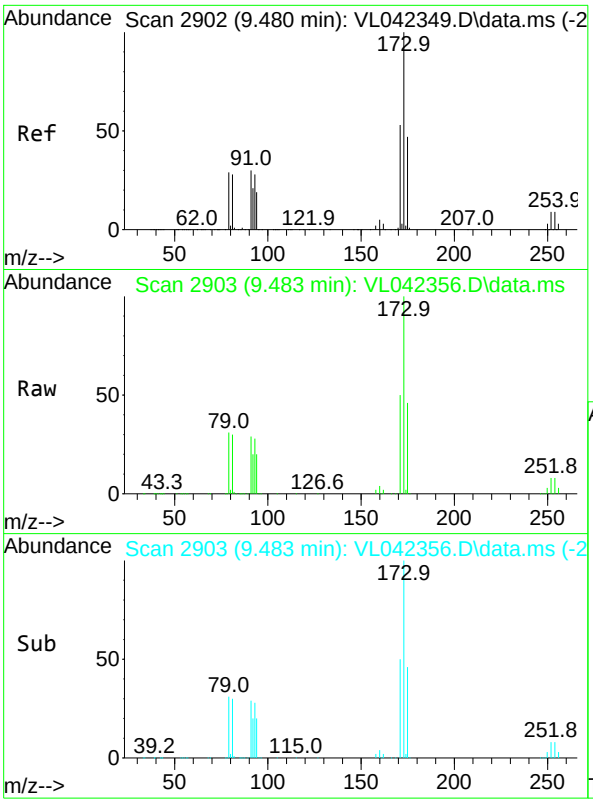



#48
Dibromochloromethane
Concen: 10.103 ppbv
RT: 7.389 min Scan# 2256
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:129 Resp: 237206

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.4 | 39.1 | 117.3 |

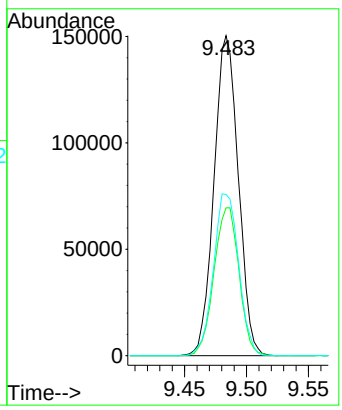





#49
Bromoform
Concen: 10.016 ppbv
RT: 9.483 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:173 Resp: 20563

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 47.6 | 38.2 | 57.2 |
| 171 | 52.5 | 40.9 | 61.3 |

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ICVVL041725

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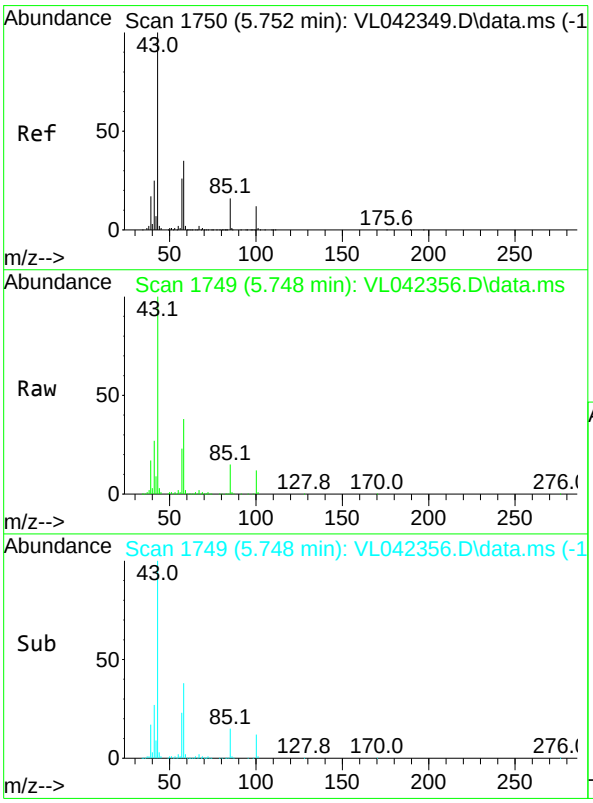
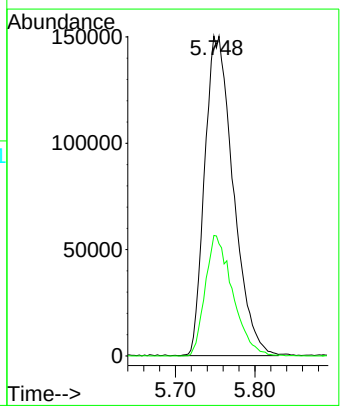
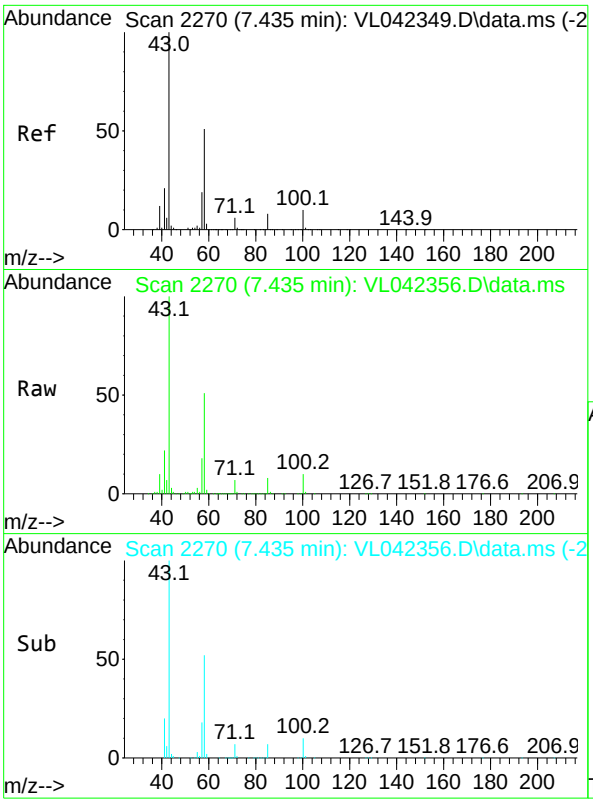



#50
4-Methyl-2-Pentanone
Concen: 8.819 ppbv
RT: 5.748 min Scan# 1749
Delta R.T. -0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 43 Resp: 376145

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 36.2 | 28.6 | 43.0 |






#51
2-Hexanone
Concen: 8.118 ppbv
RT: 7.435 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 43 Resp: 31052

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 49.3 | 40.2 | 60.4 |
| 98 | 0.0 | 0.1 | 0.1 |

**Instrument :**
MSVOA_L
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ICVVL041725

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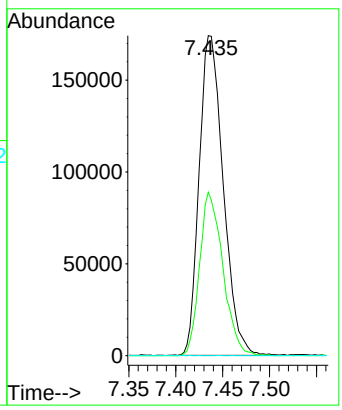
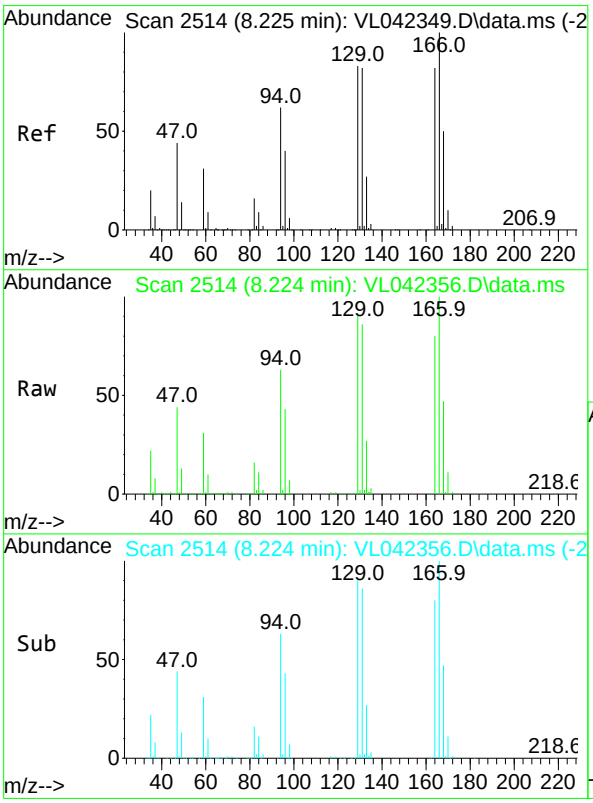
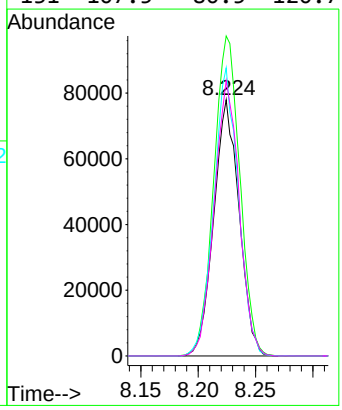


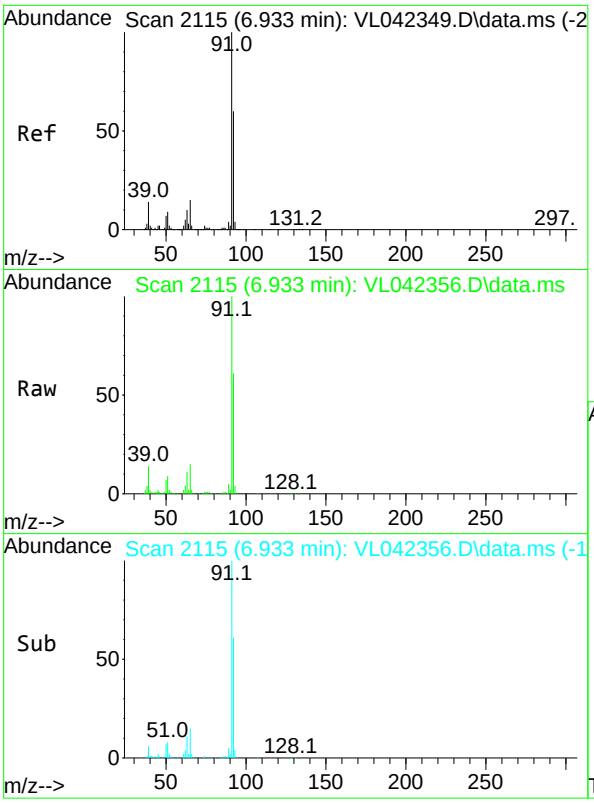




#52
Tetrachloroethene
Concen: 8.827 ppbv
RT: 8.224 min Scan# 2514
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:164 Resp: 119424

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 124.9 | 98.2 | 147.2 |
| 129 | 112.5 | 81.8 | 122.8 |
| 131 | 107.5 | 80.5 | 120.7 |

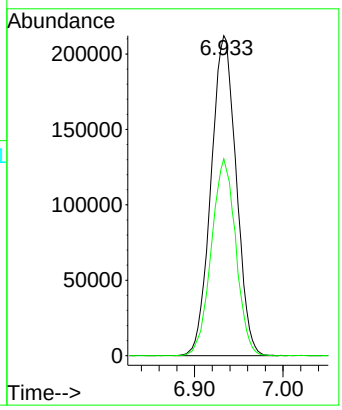





#53
Toluene
Concen: 9.986 ppbv
RT: 6.933 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 91 Resp: 41946

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 59.6 | 48.2 | 72.4 |

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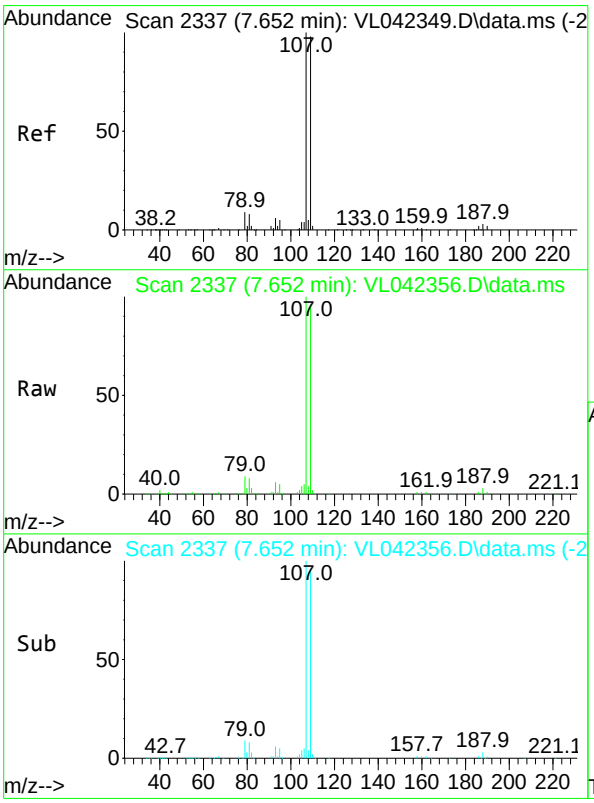
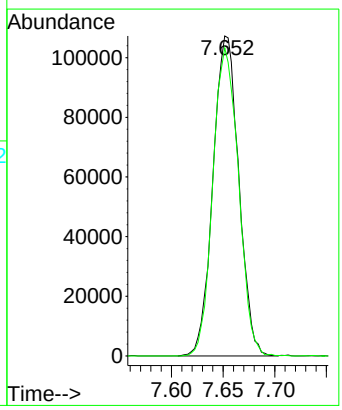
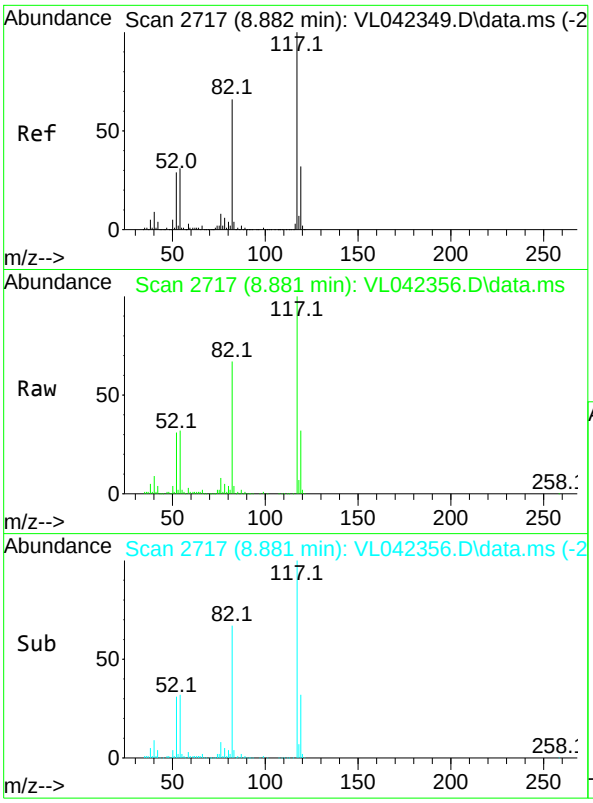



#54
1,2-Dibromoethane
Concen: 9.792 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:107 Resp: 186231

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 96.3 | 78.2 | 117.4 |

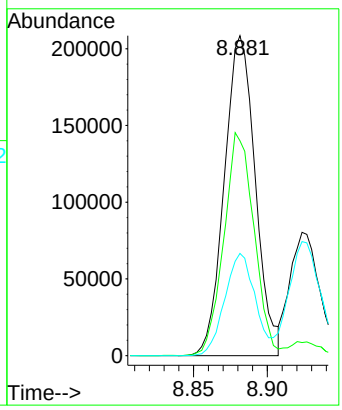





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:117 Resp: 30535

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 68.3 | 57.8 | 86.6 |
| 119 | 31.8 | 25.2 | 37.8 |

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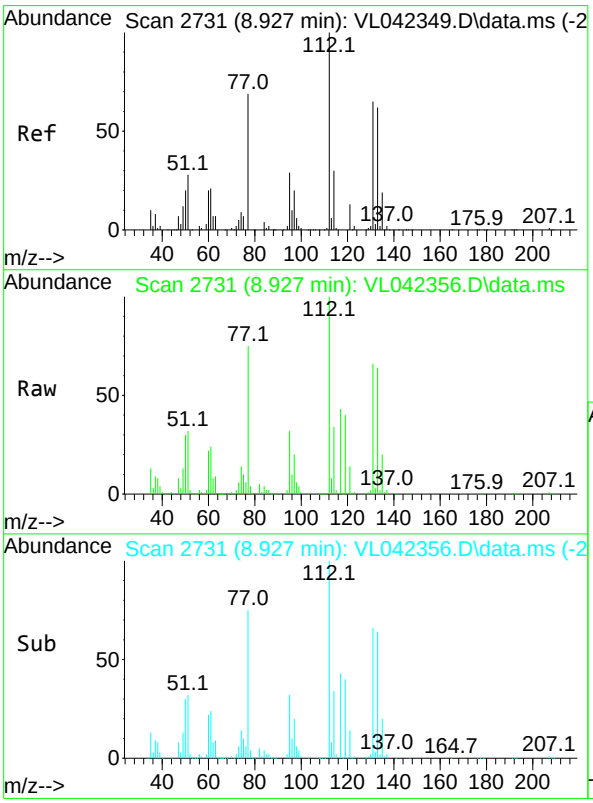
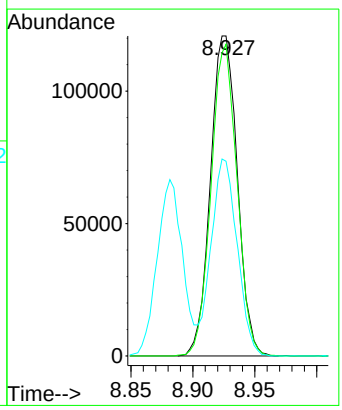
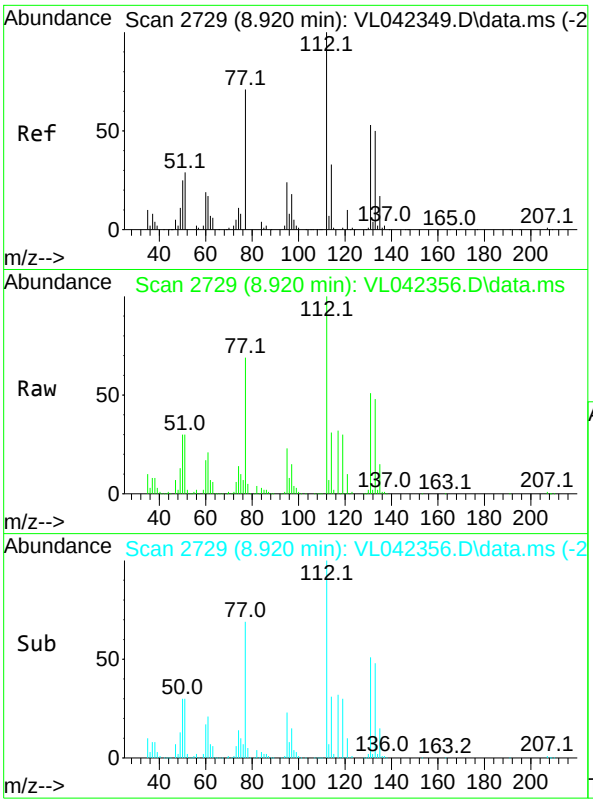



#56
1,1,1,2-Tetrachloroethane
Concen: 9.886 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:131 Resp: 182712

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 93.9 | 78.3 | 117.5 |
| 119 | 59.4 | 48.7 | 73.1 |

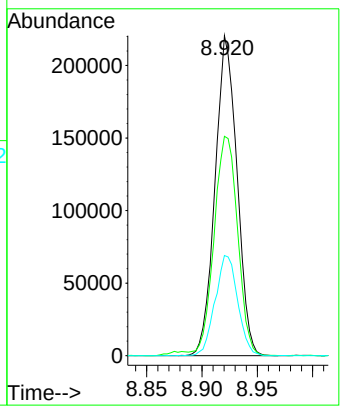





#57
Chlorobenzene
Concen: 9.589 ppbv
RT: 8.920 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:112 Resp: 30453

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 68.5 | 57.8 | 86.6 |
| 114 | 31.3 | 29.3 | 35.9 |

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**Manual Integrations**
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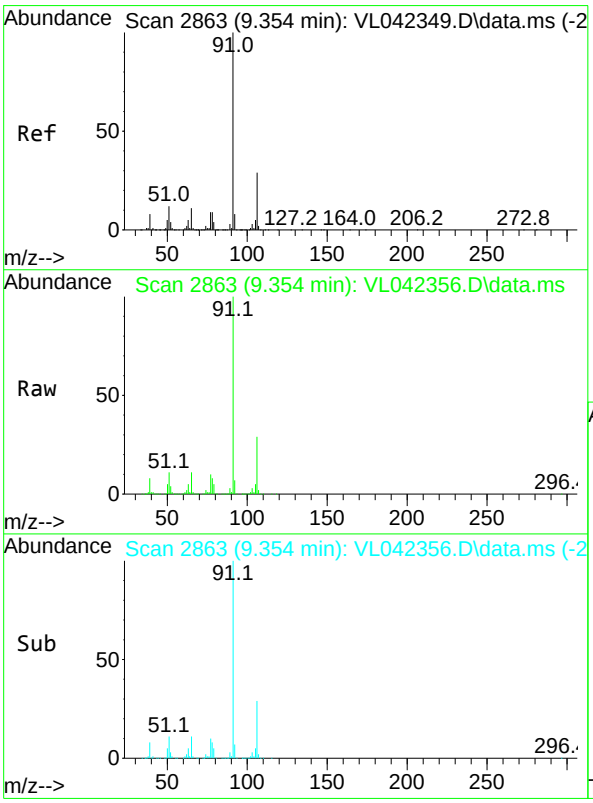
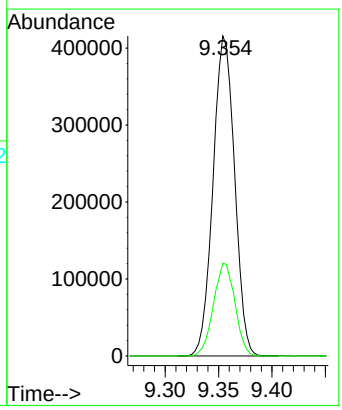
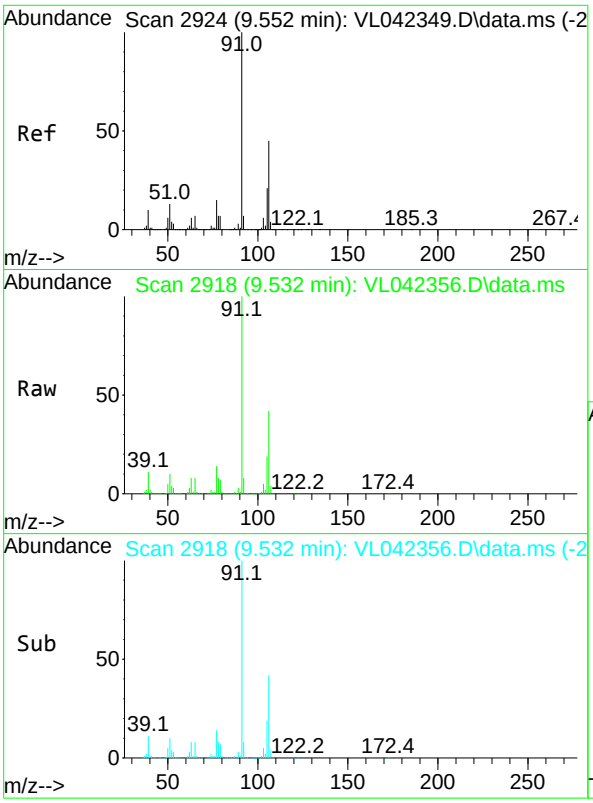



#58
Ethyl Benzene
Concen: 9.645 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 91 Resp: 583515

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.0 | 23.0 | 34.4 |

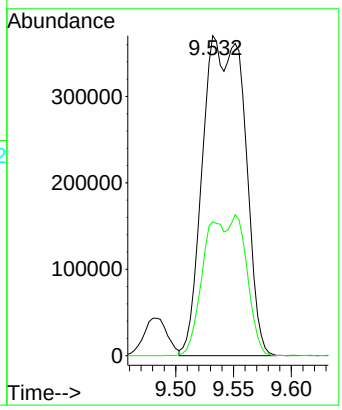





#59
m/p-Xylene
Concen: 19.139 ppbv m
RT: 9.532 min Scan# 2
Delta R.T. -0.020 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 91 Resp: 93280

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 43.7 | 35.4 | 53.2 |

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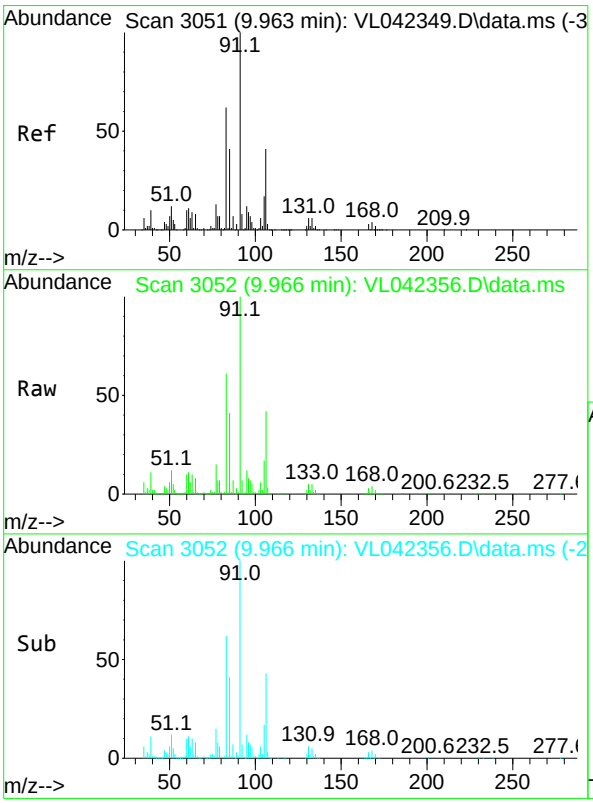
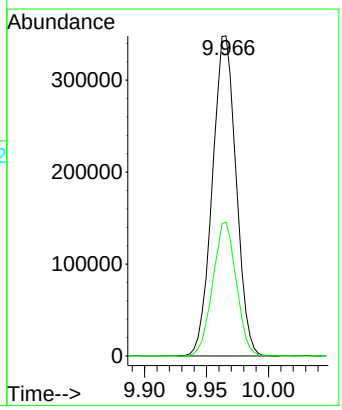
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

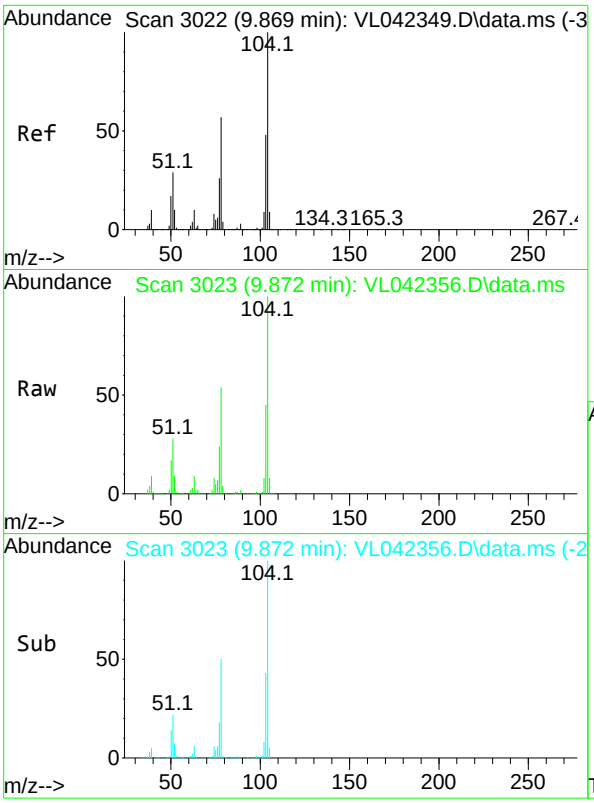



#60
o-Xylene
Concen: 9.465 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 91 Resp: 464522

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 41.4 | 21.1 | 63.4 |

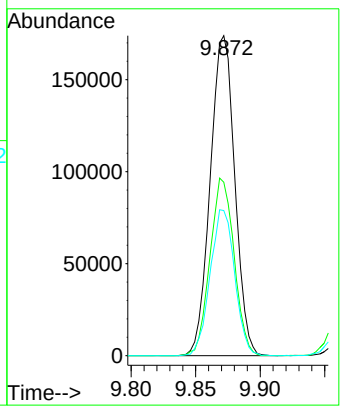





#61
Styrene
Concen: 9.813 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:104 Resp: 22986

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 54.5 | 44.6 | 66.8 |
| 103 | 45.7 | 37.4 | 56.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

**Manual Integrations**
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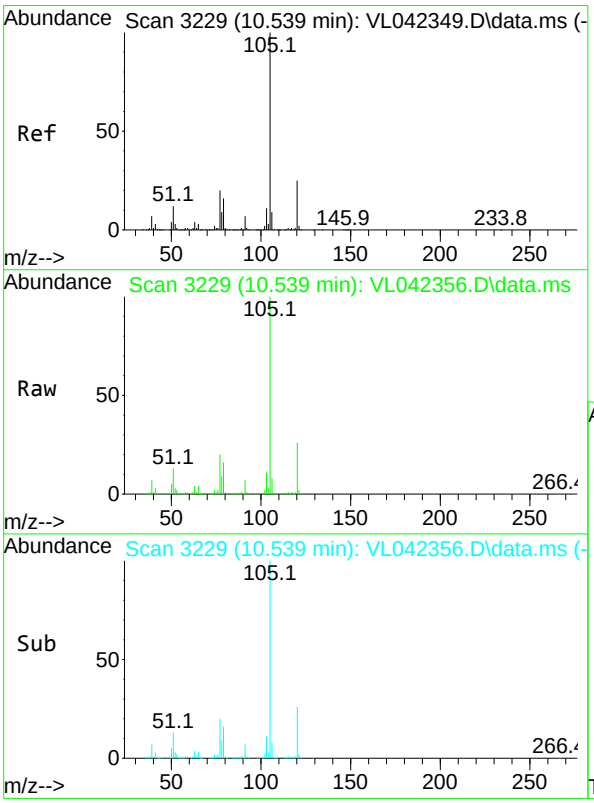
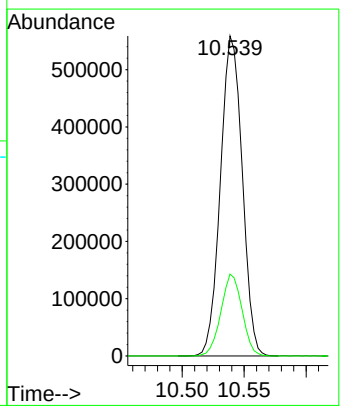
Supervised By :Mahesh Dadoda 04/18/2025

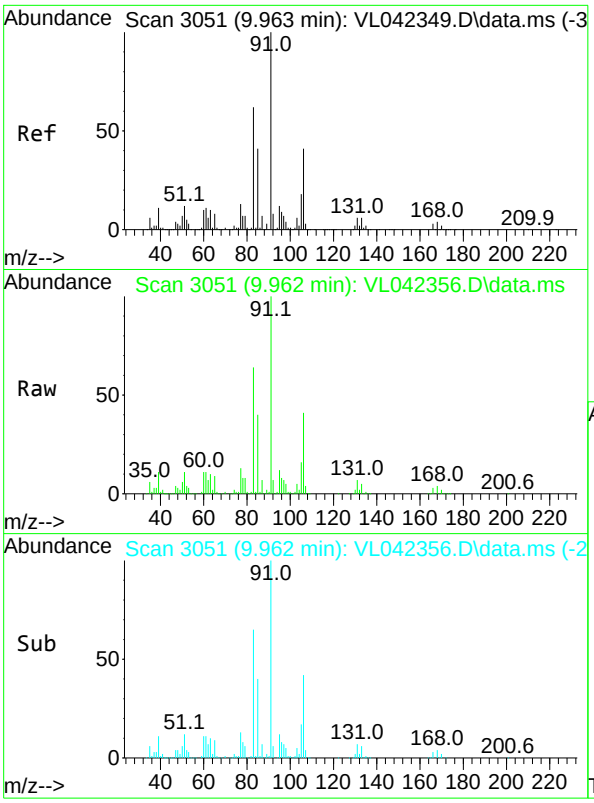



#62
Isopropylbenzene
Concen: 9.520 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:105 Resp: 685965

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 24.8 | 19.8 | 29.8 |






#63
1,1,2,2-Tetrachloroethane
Concen: 8.773 ppbv
RT: 9.962 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 83 Resp: 27900

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.6 | 4.5 | 13.7 |
| 85 | 64.6 | 32.4 | 97.0 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

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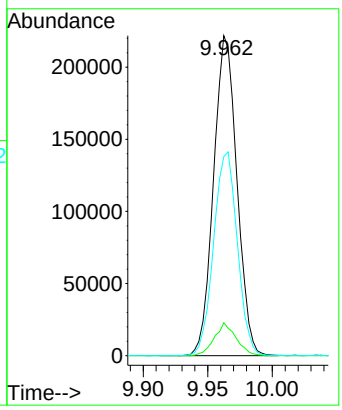
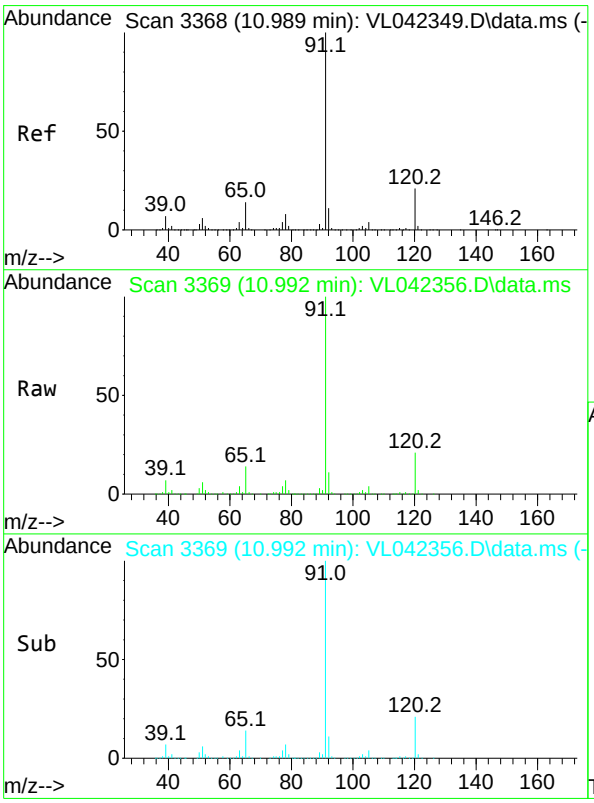
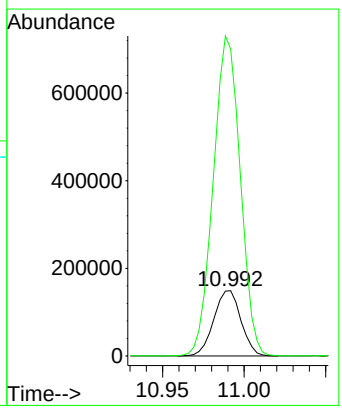


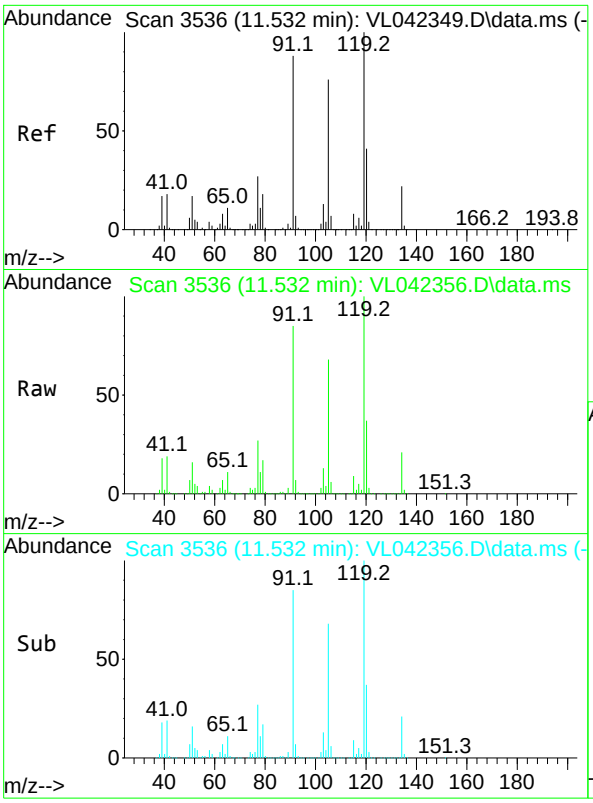




#64
n-propylbenzene
Concen: 9.533 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:120 Resp: 172654

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 487.7 | 392.4 | 588.6 |

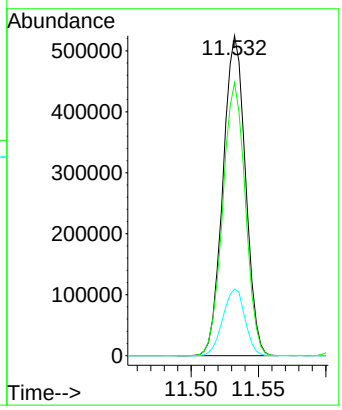





#65
tert-Butylbenzene
Concen: 9.203 ppbv
RT: 11.532 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:119 Resp: 60950

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 85.8 | 74.6 | 111.8 |
| 134 | 20.5 | 18.8 | 28.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

**Manual Integrations**
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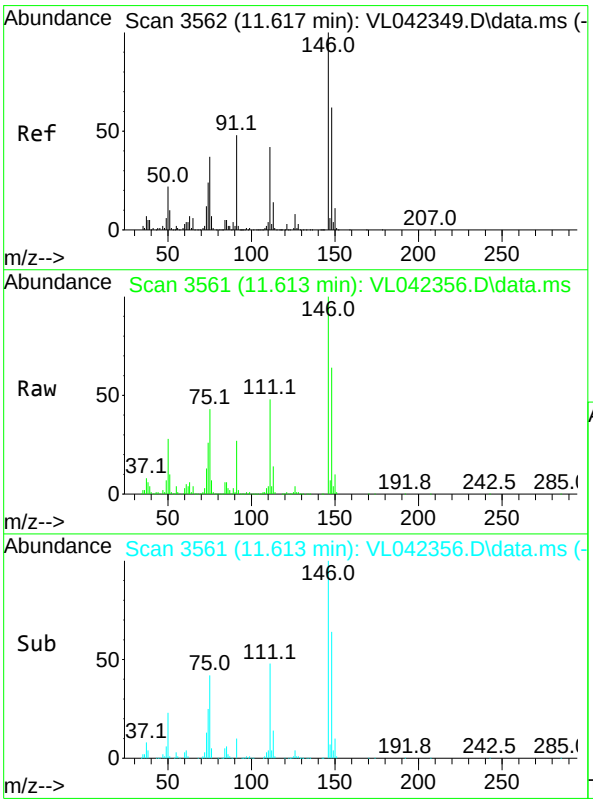
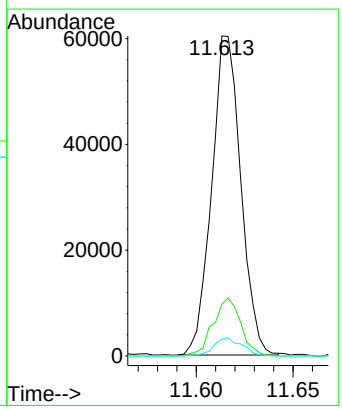
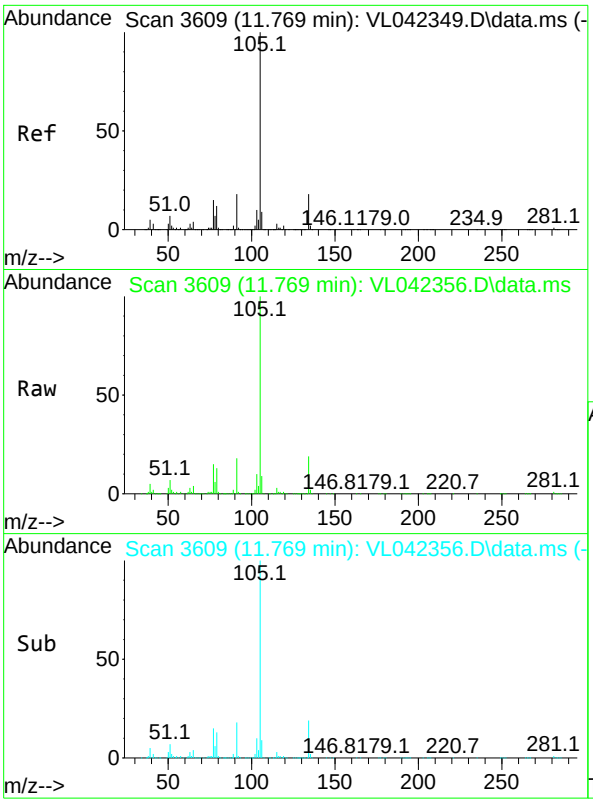



#66
Benzyl Chloride
Concen: 8.664 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. -0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 91 Resp: 63051

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 17.3 | 11.8 | 17.6 |
| 128 | 5.6 | 4.5 | 6.7 |

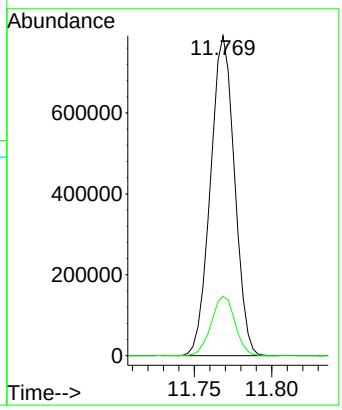





#67
sec-Butylbenzene
Concen: 9.268 ppbv
RT: 11.769 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:105 Resp: 85380

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 18.5 | 14.6 | 21.8 |




**Instrument :**
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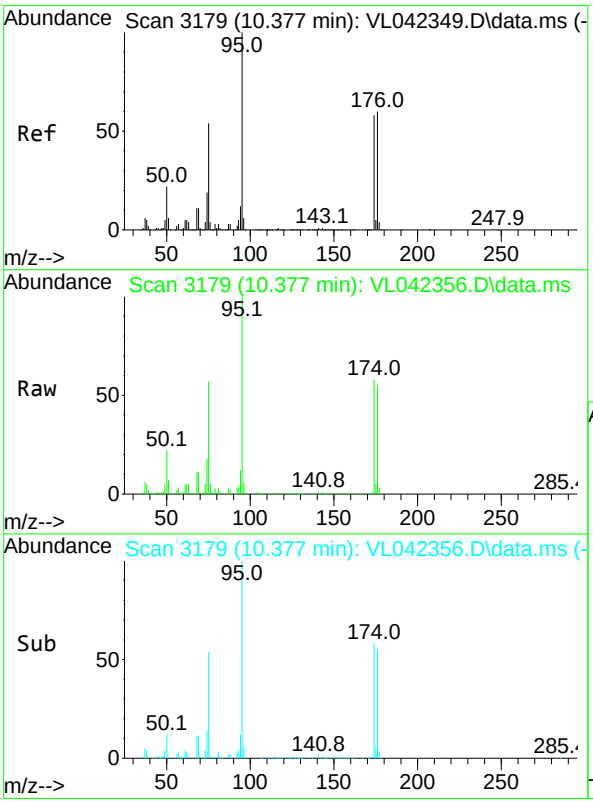
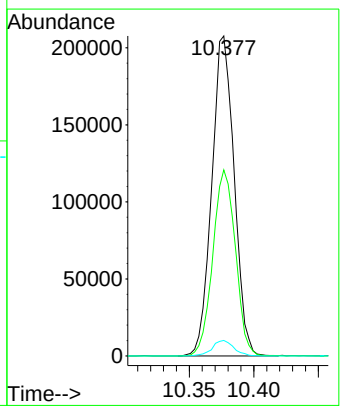
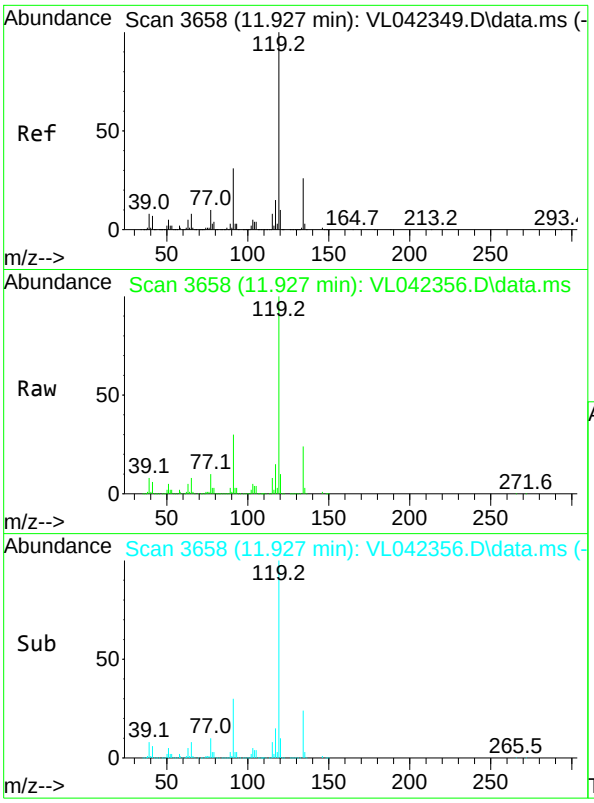



#68
1-Bromo-4-Fluorobenzene
Concen: 9.969 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 95 Resp: 250149

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 58.7 | 48.5 | 72.7 |
| 175 | 4.7 | 3.7 | 5.5 |

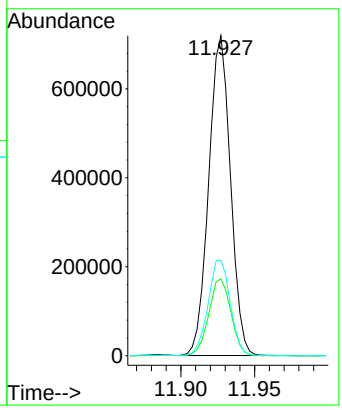





#69
p-Isopropyltoluene
Concen: 9.220 ppbv
RT: 11.927 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:119 Resp: 73786

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 24.5 | 20.0 | 30.0 |
| 91 | 30.6 | 24.4 | 36.6 |




**Instrument :**
MSVOA_L
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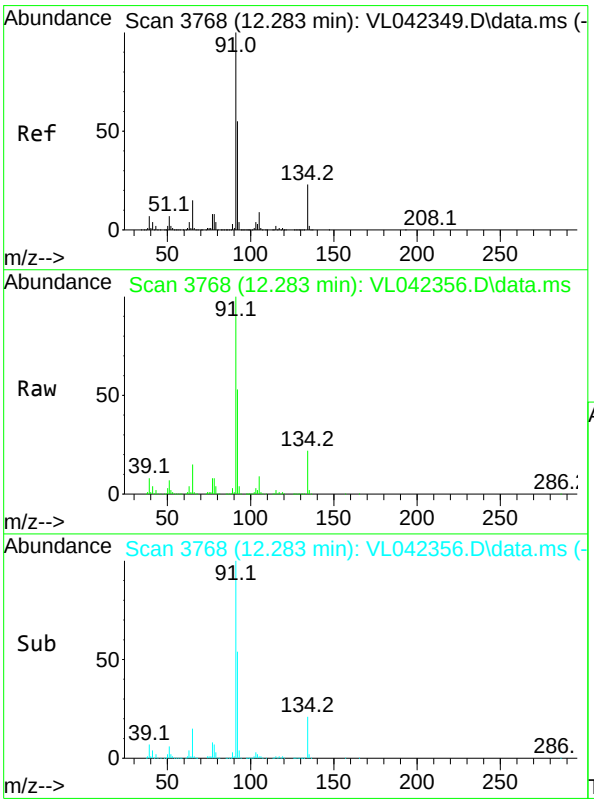
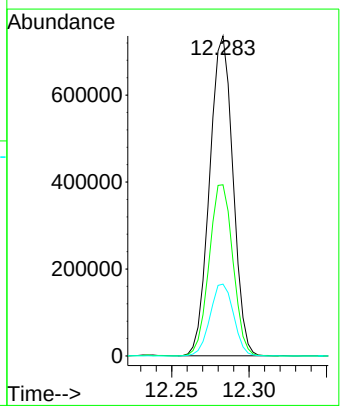
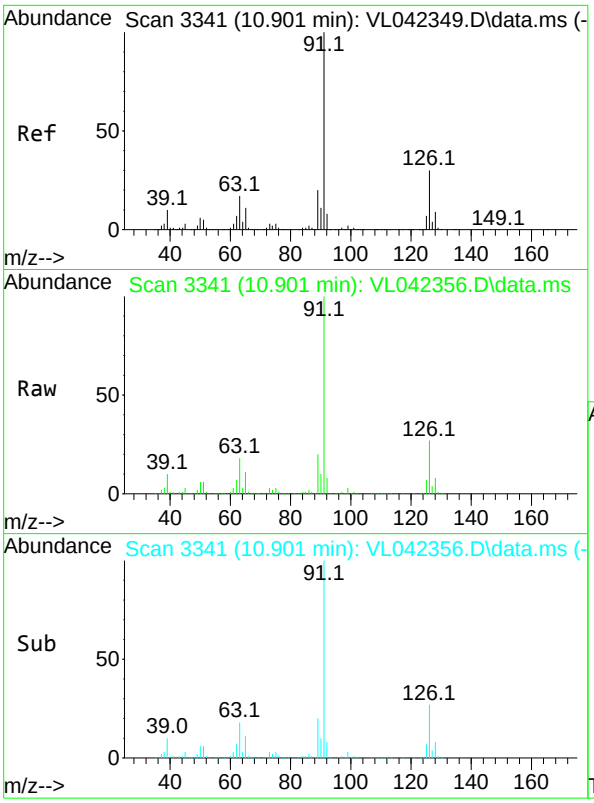



#70
n-Butylbenzene
Concen: 9.255 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 91 Resp: 771461

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 54.9 | 44.2 | 66.4 |
| 134 | 22.7 | 18.2 | 27.4 |

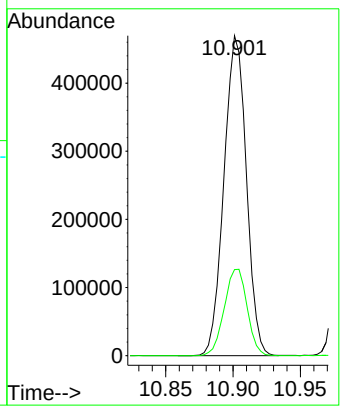





#71
2-Chlorotoluene
Concen: 9.622 ppbv
RT: 10.901 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 91 Resp: 54379

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 27.5 | 11.4 | 45.4 |

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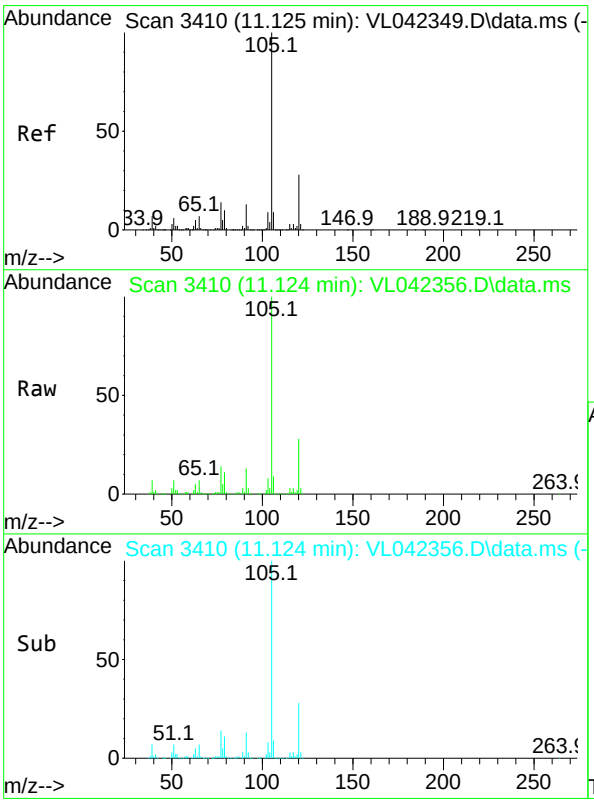
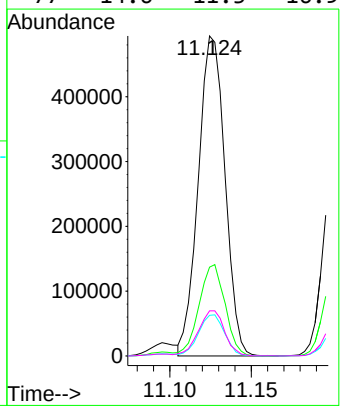
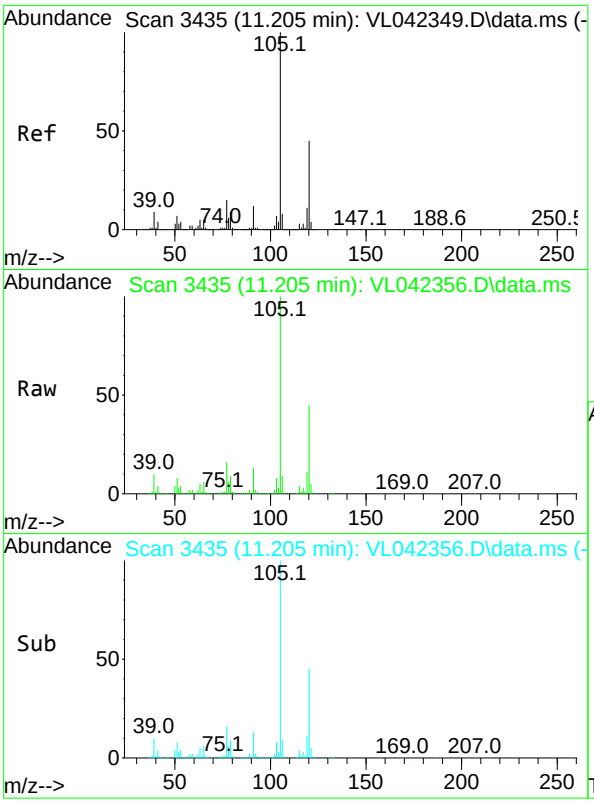



#72
4-Ethyltoluene
Concen: 9.385 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:105 Resp: 563136

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 28.9 | 23.2 | 34.8 |
| 91 | 13.2 | 10.4 | 15.6 |
| 77 | 14.6 | 11.3 | 16.9 |

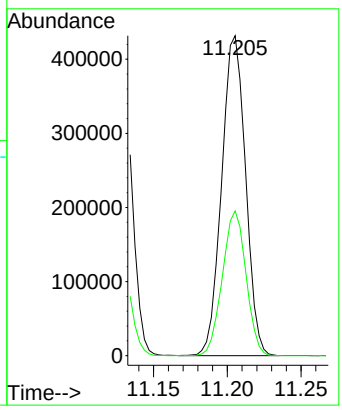





#73
1,3,5-Trimethylbenzene
Concen: 9.186 ppbv
RT: 11.205 min Scan# 34
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:105 Resp: 48658

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.2 | 35.6 | 53.4 |

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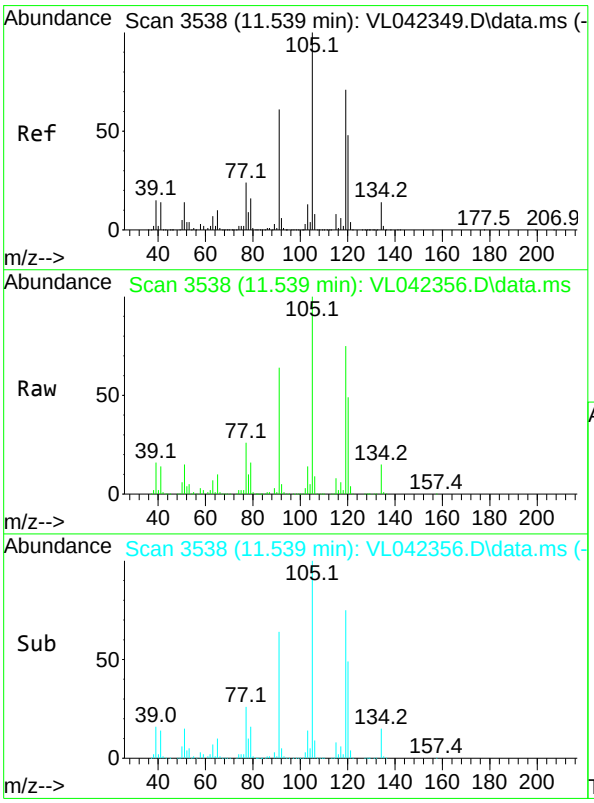
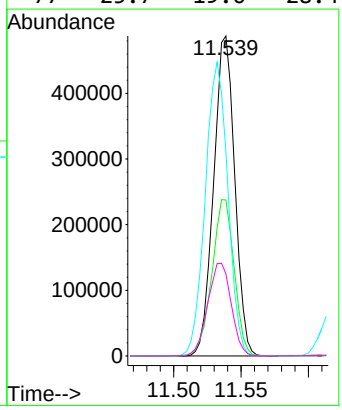
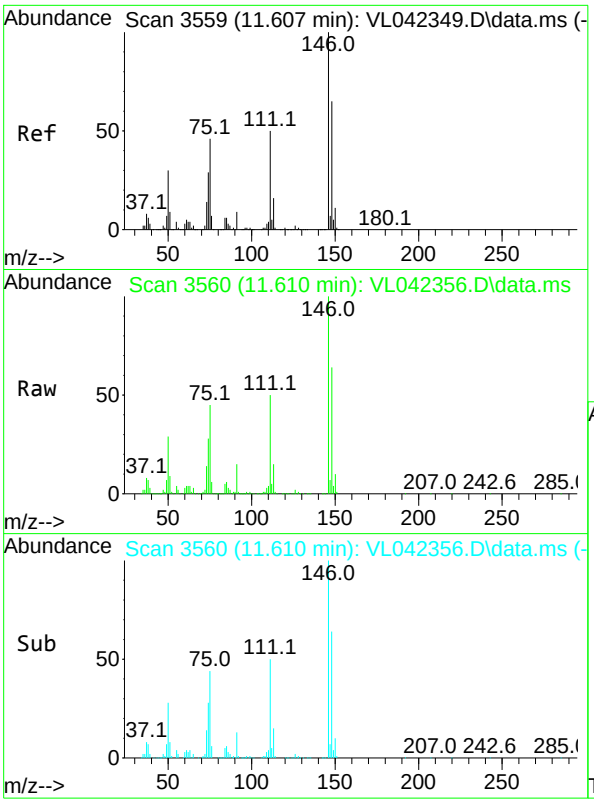



#74
1,2,4-Trimethylbenzene
Concen: 8.592 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:105 Resp: 531576

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.7 | 38.1 | 57.1 |
| 91 | 64.0 | 48.8 | 73.2 |
| 77 | 25.7 | 19.0 | 28.4 |

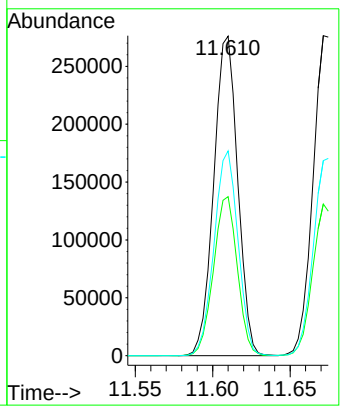





#75
1,3-Dichlorobenzene
Concen: 9.240 ppbv
RT: 11.610 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:146 Resp: 29715

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 49.5 | 24.3 | 72.8 |
| 148 | 64.1 | 31.6 | 94.8 |

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MSVOA_L
**ClientSampleId :**
ICVVL041725

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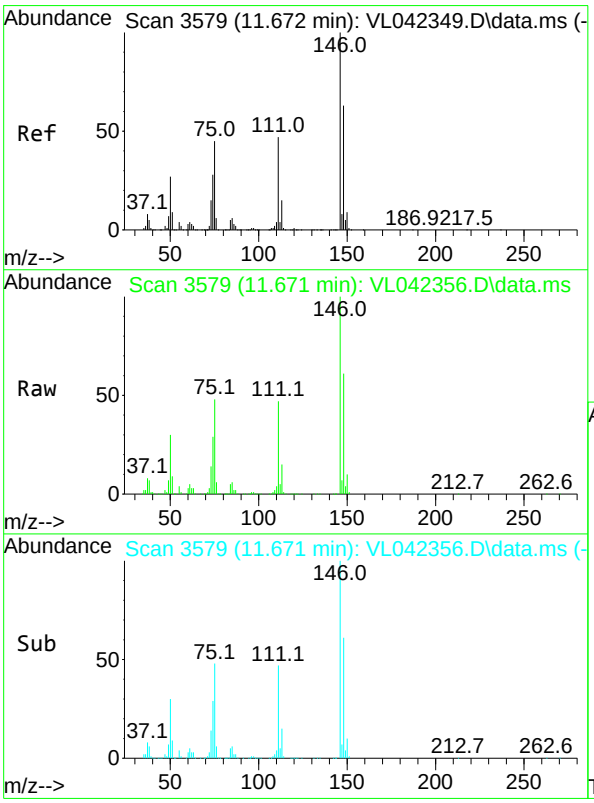
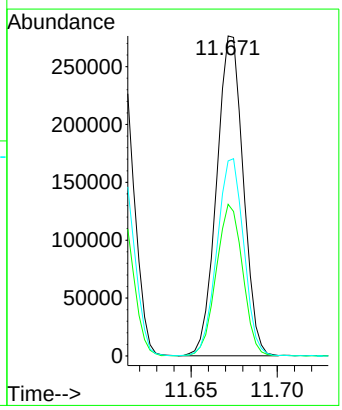
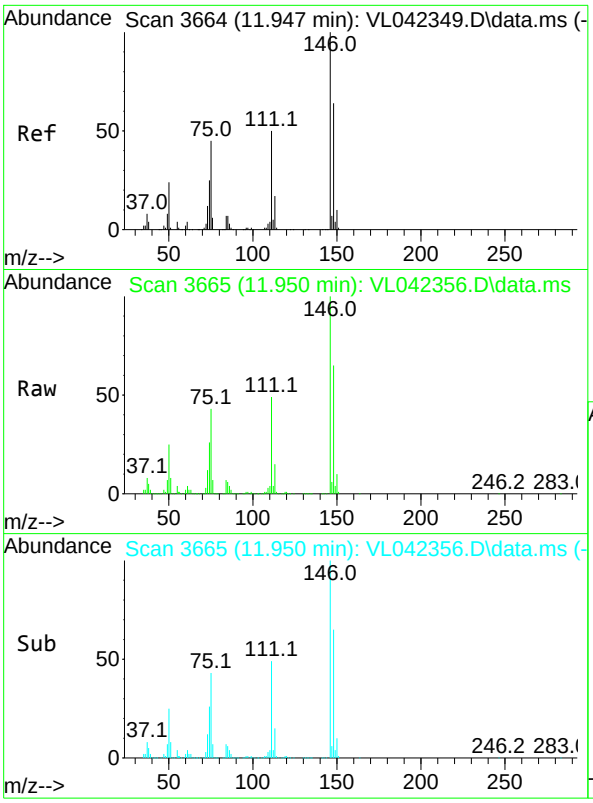



#76
1,4-Dichlorobenzene
Concen: 9.210 ppbv
RT: 11.671 min Scan# 3579
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:146 Resp: 297697

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 47.1 | 24.2 | 72.6 |
| 148 | 62.3 | 32.1 | 96.5 |

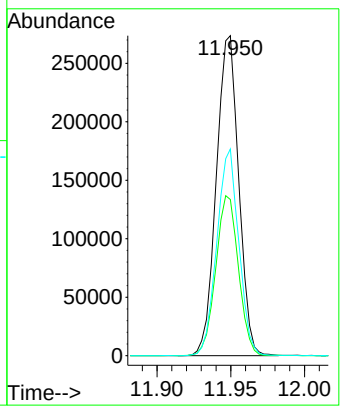





#77
1,2-Dichlorobenzene
Concen: 9.251 ppbv
RT: 11.950 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:146 Resp: 28928

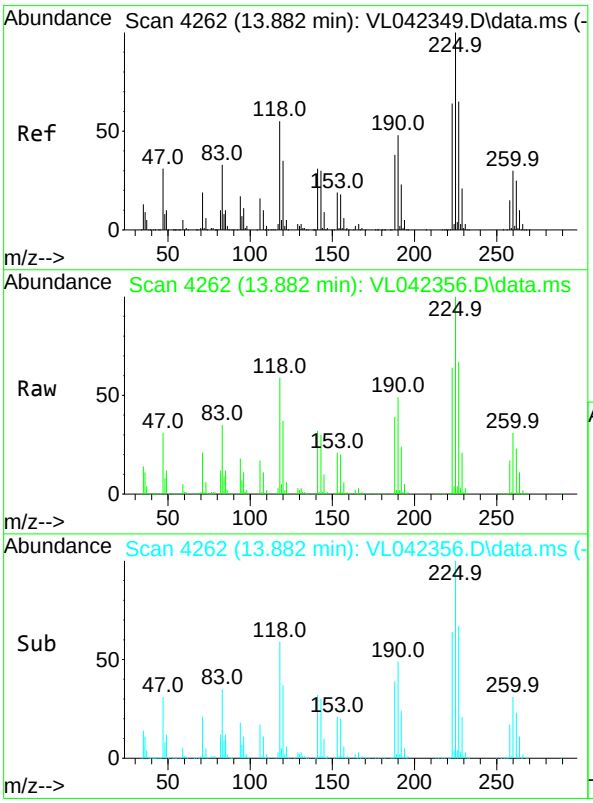
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 50.8 | 25.3 | 75.9 |
| 148 | 63.4 | 31.5 | 94.5 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

**Manual Integrations**
**APPROVED**

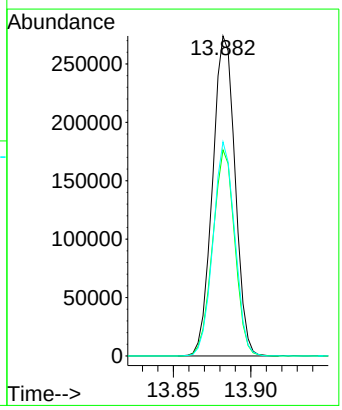
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

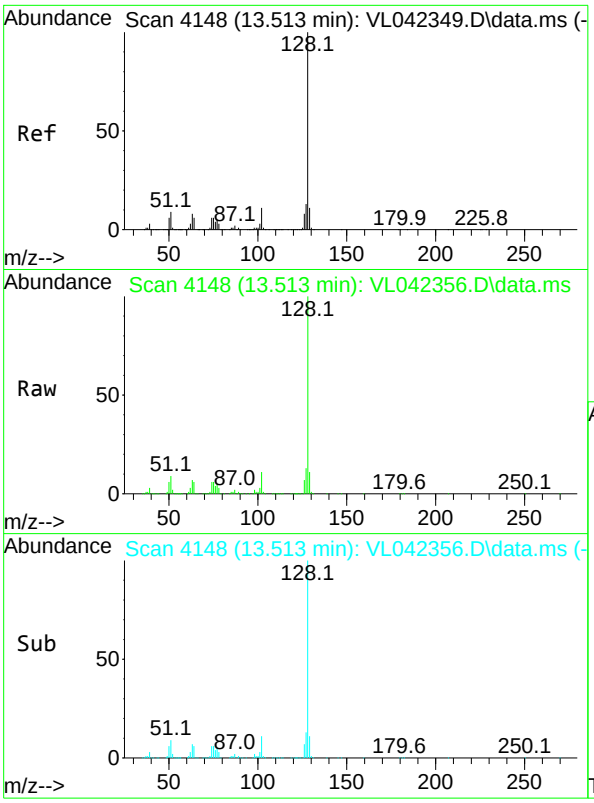



#78
Hexachloro-1,3-Butadiene
Concen: 8.771 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:225 Resp: 276960

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.0 | 50.3 | 75.5 |
| 227 | 64.5 | 51.5 | 77.3 |

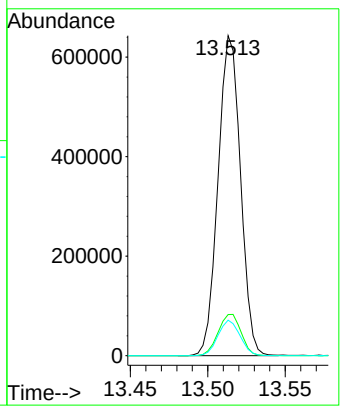





#79
Naphthalene
Concen: 8.750 ppbv
RT: 13.513 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:128 Resp: 64734

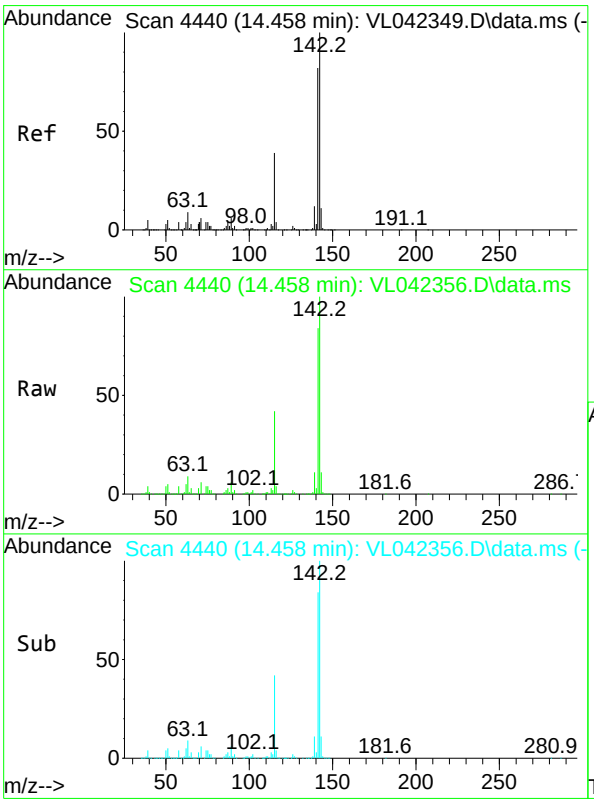
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.9 | 10.6 | 15.8 |
| 129 | 11.1 | 8.6 | 12.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

**Manual Integrations**
**APPROVED**

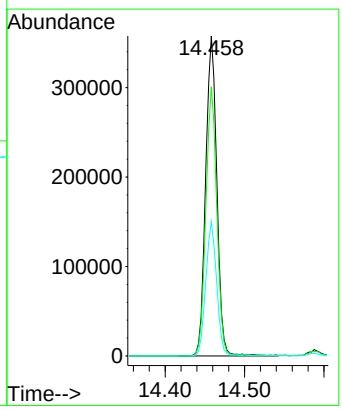
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

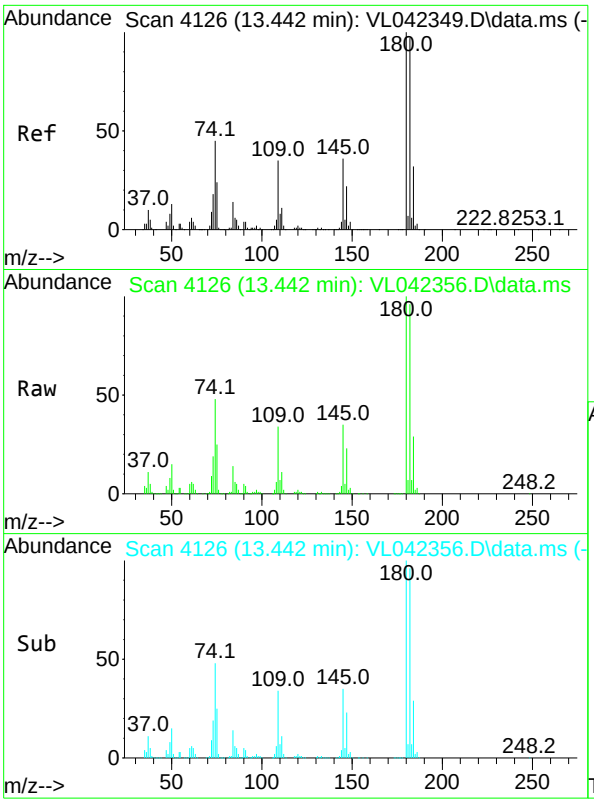



#80
Naphthalene,2-methyl-
Concen: 8.307 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:142 Resp: 350259

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 83.0 | 66.8 | 100.2 |
| 115 | 41.4 | 33.4 | 50.2 |

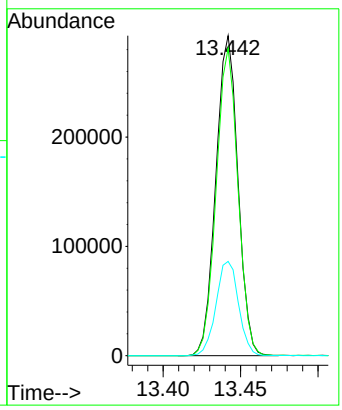





#81
1,2,4-Trichlorobenzene
Concen: 9.136 ppbv
RT: 13.442 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:180 Resp: 29026

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.7 | 76.8 | 115.2 |
| 184 | 30.1 | 24.6 | 36.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042356.D
Acq On : 17 Apr 2025 13:43
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

Quant Time: Apr 18 02:15:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Bromochloromethane | 1.000 | 1.000 | 0.0 | 91 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 1.767 | 1.734 | 1.9 | 95 | 0.00 |
| 3 | | Chlorodifluoromethane | 1.682 | 1.676 | 0.4 | 97 | 0.00 |
| 4 | | Chloromethane | 0.699 | 0.685 | 2.0 | 95 | 0.00 |
| 5 | T | Vinyl Chloride | 0.761 | 0.663 | 12.9 | 94 | 0.00 |
| 6 | T | Bromomethane | 0.327 | 0.308 | 5.8 | 92 | 0.00 |
| 7 | | Chloroethane | 0.275 | 0.265 | 3.6 | 95 | 0.00 |
| 8 | T | Dichlorotetrafluoroethane | 1.517 | 1.516 | 0.1 | 96 | 0.00 |
| 9 | T | Propene | 0.766 | 0.742 | 3.1 | 98 | 0.00 |
| 10 | T | Heptane | 2.153 | 1.946 | 9.6 | 94 | 0.00 |
| 11 | T | Trichlorofluoromethane | 1.680 | 1.648 | 1.9 | 96 | 0.00 |
| 12 | T | 1,1,2-Trichlorotrifluoroeth | 1.374 | 1.303 | 5.2 | 92 | 0.00 |
| 13 | | Ethanol | 0.122 | 0.037# | 69.7# | 94 | 0.00 |
| 14 | T | Bromoethene | 0.518 | 0.512 | 1.2 | 95 | 0.00 |
| 15 | T | Acetone | 1.637 | 1.392 | 15.0 | 100 | 0.00 |
| 16 | T | 1,3-Butadiene | 0.783 | 0.691 | 11.7 | 96 | 0.00 |
| 17 | | tert-Butyl alcohol | 2.029 | 1.921 | 5.3 | 97 | 0.00 |
| 18 | T | 1,1-Dichloroethene | 0.642 | 0.596 | 7.2 | 93 | 0.00 |
| 19 | T | Isopropyl Alcohol | 0.909 | 0.845 | 7.0 | 94 | 0.00 |
| 20 | T | Methylene Chloride | 0.641 | 0.519 | 19.0 | 95 | 0.00 |
| 21 | T | Allyl Chloride | 1.130 | 1.059 | 6.3 | 99 | 0.00 |
| 22 | T | trans-1,2-Dichloroethene | 0.731 | 0.685 | 6.3 | 94 | 0.00 |
| 23 | T | Vinyl Acetate | 0.663 | 0.644 | 2.9 | 105 | 0.00 |
| 24 | T | 1,1-Dichloroethane | 1.388 | 1.365 | 1.7 | 97 | 0.00 |
| 25 | T | Ethyl Acetate | 4.036 | 3.939 | 2.4 | 97 | 0.00 |
| 26 | T | Hexane | 1.633 | 1.542 | 5.6 | 98 | 0.00 |
| 27 | T | Carbon Disulfide | 1.749 | 1.677 | 4.1 | 91 | 0.00 |
| 28 | T | Methyl tert-Butyl Ether | 1.070 | 1.011 | 5.5 | 98 | 0.00 |
| 29 | T | Chloroform | 2.309 | 2.288 | 0.9 | 97 | 0.00 |
| 30 | T | Cyclohexane | 1.320 | 1.300 | 1.5 | 94 | 0.00 |
| 31 | T | cis-1,2-Dichloroethene | 1.553 | 1.579 | -1.7 | 98 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 2.599 | 2.426 | 6.7 | 97 | 0.00 |
| 33 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 89 | 0.00 |
| 34 | T | 2-Butanone | 0.791 | 0.767 | 3.0 | 99 | 0.00 |
| 35 | T | Carbon Tetrachloride | 0.905 | 0.838 | 7.4 | 96 | 0.00 |
| 36 | T | Benzene | 1.079 | 1.080 | -0.1 | 95 | 0.00 |
| 37 | T | 1,2-Dichloroethane | 0.647 | 0.653 | -0.9 | 98 | 0.00 |
| 38 | T | Trichloroethene | 0.471 | 0.431 | 8.5 | 97 | 0.00 |
| 39 | T | 1,2-Dichloropropane | 0.402 | 0.398 | 1.0 | 95 | 0.00 |
| 40 | T | 1,4-Dioxane | 0.221 | 0.190 | 14.0 | 92 | 0.00 |
| 41 | T | Tetrahydrofuran | 0.461 | 0.437 | 5.2 | 95 | 0.00 |
| 42 | T | Bromodichloromethane | 0.901 | 0.915 | -1.6 | 95 | 0.00 |
| 43 | | Methyl Methacrylate | 0.486 | 0.460 | 5.3 | 95 | 0.00 |
| 44 | T | 2,2,4-Trimethylpentane | 1.863 | 1.868 | -0.3 | 97 | 0.00 |
| 45 | T | t-1,3-Dichloropropene | 0.497 | 0.495 | 0.4 | 96 | 0.00 |
| 46 | T | cis-1,3-Dichloropropene | 0.608 | 0.617 | -1.5 | 96 | 0.00 |
| 47 | T | 1,1,2-Trichloroethane | 0.410 | 0.418 | -2.0 | 98 | 0.00 |
| 48 | T | Dibromochloromethane | 0.723 | 0.731 | -1.1 | 95 | 0.00 |

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042356.D
Acq On : 17 Apr 2025 13:43
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

Quant Time: Apr 18 02:15:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | Bromoform | 0.633 | 0.634 | -0.2 | 91 | 0.00 |
| 50 | T | 4-Methyl-2-Pentanone | 1.314 | 1.159 | 11.8 | 95 | 0.00 |
| 51 | T | 2-Hexanone | 1.179 | 0.957 | 18.8 | 95 | 0.00 |
| 52 | T | Tetrachloroethene | 0.417 | 0.368 | 11.8 | 91 | 0.00 |
| 53 | T | Toluene | 1.294 | 1.293 | 0.1 | 96 | 0.00 |
| 54 | T | 1,2-Dibromoethane | 0.586 | 0.574 | 2.0 | 94 | 0.00 |
| 55 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 90 | 0.00 |
| 56 | | 1,1,1,2-Tetrachloroethane | 0.605 | 0.598 | 1.2 | 98 | 0.00 |
| 57 | T | Chlorobenzene | 1.040 | 0.997 | 4.1 | 94 | 0.00 |
| 58 | T | Ethyl Benzene | 1.981 | 1.911 | 3.5 | 94 | 0.00 |
| 59 | T | m/p-Xylene | 1.596 | 1.527 | 4.3 | 95 | -0.02 |
| 60 | T | o-Xylene | 1.607 | 1.521 | 5.4 | 95 | 0.00 |
| 61 | T | Styrene | 0.767 | 0.753 | 1.8 | 94 | 0.00 |
| 62 | | Isopropylbenzene | 2.360 | 2.246 | 4.8 | 93 | 0.00 |
| 63 | T | 1,1,2,2-Tetrachloroethane | 1.042 | 0.914 | 12.3 | 95 | 0.00 |
| 64 | | n-propylbenzene | 0.593 | 0.565 | 4.7 | 94 | 0.00 |
| 65 | | tert-Butylbenzene | 2.169 | 1.996 | 8.0 | 95 | 0.00 |
| 66 | T | Benzyl Chloride | 0.238 | 0.206 | 13.4 | 76 | 0.00 |
| 67 | | sec-Butylbenzene | 3.017 | 2.796 | 7.3 | 95 | 0.00 |
| 68 | S | 1-Bromo-4-Fluorobenzene | 0.822 | 0.819 | 0.4 | 89 | 0.00 |
| 69 | | p-Isopropyltoluene | 2.621 | 2.416 | 7.8 | 95 | 0.00 |
| 70 | | n-Butylbenzene | 2.730 | 2.526 | 7.5 | 96 | 0.00 |
| 71 | | 2-Chlorotoluene | 1.851 | 1.781 | 3.8 | 95 | 0.00 |
| 72 | T | 4-Ethyltoluene | 1.965 | 1.844 | 6.2 | 94 | 0.00 |
| 73 | T | 1,3,5-Trimethylbenzene | 1.735 | 1.593 | 8.2 | 95 | 0.00 |
| 74 | T | 1,2,4-Trimethylbenzene | 2.026 | 1.741 | 14.1 | 94 | 0.00 |
| 75 | T | 1,3-Dichlorobenzene | 1.053 | 0.973 | 7.6 | 93 | 0.00 |
| 76 | T | 1,4-Dichlorobenzene | 1.059 | 0.975 | 7.9 | 93 | 0.00 |
| 77 | T | 1,2-Dichlorobenzene | 1.024 | 0.947 | 7.5 | 95 | 0.00 |
| 78 | T | Hexachloro-1,3-Butadiene | 1.034 | 0.907 | 12.3 | 95 | 0.00 |
| 79 | T | Naphthalene | 2.423 | 2.120 | 12.5 | 96 | 0.00 |
| 80 | T | Naphthalene,2-methyl- | 1.381 | 1.147 | 16.9 | 93 | 0.00 |
| 81 | T | 1,2,4-Trichlorobenzene | 1.040 | 0.951 | 8.6 | 95 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WOOD06

Lab Code: CHEM Case No.: Q1665 SAS No.: Q1665 SDG No.: Q1665

Instrument ID: MSVOA_L Calibration Date/Time: 04/09/2025 10:20

Lab File ID: VL042286.D Init. Calib. Date(s): 03/27/2025 03/27/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 08:26 11:36

GC Column: RTX-1 ID: 0.32 (mm)

| COMPOUND | RRF | RRF010 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 1.476 | 1.444 | | -2.17 | 30 |
| Ethanol | 0.065 | 0.030 | | -53.85 | 30 |
| Chloromethane | 0.603 | 0.607 | | 0.66 | 30 |
| Vinyl Chloride | 0.639 | 0.560 | | -12.36 | 30 |
| Bromomethane | 0.273 | 0.250 | | -8.43 | 30 |
| Chloroethane | 0.242 | 0.225 | | -7.03 | 30 |
| Tetrahydrofuran | 0.418 | 0.441 | | 5.5 | 30 |
| Trichlorofluoromethane | 1.437 | 1.405 | | -2.23 | 30 |
| 1,1,2-Trichlorotrifluoroethane | 1.181 | 1.149 | | -2.71 | 30 |
| Dichlorotetrafluoroethane | 1.257 | 1.243 | | -1.11 | 30 |
| Bromoethene | 0.452 | 0.393 | | -13.05 | 30 |
| tert-Butyl alcohol | 1.742 | 1.415 | | -18.77 | 30 |
| Heptane | 1.839 | 1.800 | | -2.12 | 30 |
| Isopropyl Alcohol | 0.789 | 0.664 | | -15.84 | 30 |
| 1,1-Dichloroethene | 0.552 | 0.499 | | -9.6 | 30 |
| Acetone | 1.399 | 1.260 | | -9.94 | 30 |
| Carbon Disulfide | 1.503 | 1.391 | | -7.45 | 30 |
| Methyl tert-Butyl Ether | 0.873 | 0.705 | | -19.24 | 30 |
| Methylene Chloride | 0.521 | 0.441 | | -15.35 | 30 |
| trans-1,2-Dichloroethene | 0.638 | 0.568 | | -10.97 | 30 |
| 1,1-Dichloroethane | 1.183 | 1.159 | | -2.03 | 30 |
| Cyclohexane | 1.217 | 1.095 | | -10.02 | 30 |
| 2-Butanone | 0.725 | 0.789 | | 8.83 | 30 |
| Carbon Tetrachloride | 0.781 | 0.879 | | 12.55 | 30 |
| cis-1,2-Dichloroethene | 1.423 | 1.297 | | -8.85 | 30 |
| Chloroform | 2.052 | 2.190 | | 6.72 | 30 |
| 1,1,1-Trichloroethane | 2.349 | 2.135 | | -9.11 | 30 |
| 2,2,4-Trimethylpentane | 1.675 | 1.869 | | 11.58 | 30 |
| Benzene | 0.991 | 1.071 | | 8.07 | 30 |
| 1,2-Dichloroethane | 0.568 | 0.647 | | 13.91 | 30 |
| Trichloroethene | 0.414 | 0.429 | | 3.62 | 30 |
| 1,2-Dichloropropane | 0.361 | 0.387 | | 7.2 | 30 |
| Bromodichloromethane | 0.782 | 0.904 | | 15.6 | 30 |
| 4-Methyl-2-Pentanone | 1.149 | 1.122 | | -2.35 | 30 |
| Toluene | 1.175 | 1.171 | | -0.34 | 30 |
| t-1,3-Dichloropropene | 0.450 | 0.371 | | -17.56 | 30 |
| cis-1,3-Dichloropropene | 0.552 | 0.493 | | -10.69 | 30 |
| 1,1,2-Trichloroethane | 0.382 | 0.434 | | 13.61 | 30 |

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WOOD06

Lab Code: CHEM Case No.: Q1665 SAS No.: Q1665 SDG No.: Q1665

Instrument ID: MSVOA_L Calibration Date/Time: 04/09/2025 10:20

Lab File ID: VL042286.D Init. Calib. Date(s): 03/27/2025 03/27/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 08:26 11:36

GC Column: RTX-1 ID: 0.32 (mm)

| COMPOUND | RRF | RRF010 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dibromochloromethane | 0.647 | 0.705 | | 8.96 | 30 |
| 1,2-Dibromoethane | 0.532 | 0.578 | | 8.65 | 30 |
| Tetrachloroethene | 0.393 | 0.357 | | -9.16 | 30 |
| Chlorobenzene | 0.949 | 1.140 | | 20.13 | 30 |
| Ethyl Benzene | 1.776 | 1.924 | | 8.33 | 30 |
| m/p-Xylene | 1.418 | 1.658 | | 16.92 | 30 |
| o-Xylene | 1.422 | 1.659 | | 16.67 | 30 |
| Styrene | 0.703 | 0.718 | | 2.13 | 30 |
| Bromoform | 0.581 | 0.630 | | 8.43 | 30 |
| 1,1,2,2-Tetrachloroethane | 0.864 | 1.091 | | 26.27 | 30 |
| 2-Chlorotoluene | 1.650 | 1.869 | | 13.27 | 30 |
| 1,3,5-Trimethylbenzene | 1.546 | 1.772 | | 14.62 | 30 |
| 1,2,4-Trimethylbenzene | 1.781 | 2.025 | | 13.7 | 30 |
| 1,3-Dichlorobenzene | 0.977 | 1.218 | | 24.67 | 30 |
| 1,4-Dichlorobenzene | 0.972 | 1.210 | | 24.49 | 30 |
| 1,2-Dichlorobenzene | 0.951 | 1.197 | | 25.87 | 30 |
| 1,2,4-Trichlorobenzene | 0.899 | 1.016 | | 13.01 | 30 |
| Hexachloro-1,3-Butadiene | 0.968 | 0.955 | | -1.34 | 30 |
| 1,3-Butadiene | 0.683 | 0.610 | | -10.69 | 30 |
| Naphthalene | 1.948 | 2.309 | | 18.53 | 30 |
| 4-Ethyltoluene | 1.770 | 2.081 | | 17.57 | 30 |
| 1-Bromo-4-Fluorobenzene | 0.821 | 0.815 | | -0.73 | 30 |
| Hexane | 1.402 | 1.381 | | -1.5 | 30 |
| Allyl Chloride | 0.986 | 0.899 | | -8.82 | 30 |
| 1,4-Dioxane | 191.626 | 182.801 | | -4.61 | 30 |
| Methyl Methacrylate | 0.420 | 0.390 | | -7.14 | 30 |

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042286.D
Acq On : 09 Apr 2025 10:20
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 01:39:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.784 | 49 | 155631 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.956 | 114 | 397176 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.879 | 117 | 350140 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.374 | 95 | 285515 | 9.930 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 99.300% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.496 | 85 | 224739 | 9.780 | ppbv | 99 |
| 3) Chlorodifluoromethane | 1.473 | 51 | 242368 | 10.325 | ppbv | 99 |
| 4) Chloromethane | 1.531 | 50 | 94421 | 10.054 | ppbv | 99 |
| 5) Vinyl Chloride | 1.580 | 62 | 87077 | 8.750 | ppbv | 96 |
| 6) Bromomethane | 1.667 | 94 | 38883 | 9.136 | ppbv | 95 |
| 7) Chloroethane | 1.703 | 64 | 35019 | 9.290 | ppbv | 100 |
| 8) Dichlorotetrafluoroethane | 1.554 | 85 | 193376 | 9.882 | ppbv | 92 |
| 9) Propene | 1.483 | 41 | 92247 | 8.573 | ppbv | 98 |
| 10) Heptane | 4.972 | 43 | 280156 | 9.789 | ppbv | 99 |
| 11) Trichlorofluoromethane | 1.874 | 101 | 218729 | 9.783 | ppbv | 97 |
| 12) 1,1,2-Trichlorotrifluo... | 2.137 | 101 | 178752 | 9.726 | ppbv | 98 |
| 13) Ethanol | 1.719 | 45 | 4608 | 4.530 | ppbv | 92 |
| 14) Bromoethene | 1.781 | 108 | 61204 | 8.693 | ppbv | 97 |
| 15) Acetone | 1.832 | 43 | 196063 | 9.008 | ppbv | 96 |
| 16) 1,3-Butadiene | 1.606 | 39 | 94932 | 8.931 | ppbv | 98 |
| 17) tert-Butyl alcohol | 2.040 | 59 | 220187 | 8.122 | ppbv | 98 |
| 18) 1,1-Dichloroethene | 2.033 | 96 | 77686 | 9.042 | ppbv | 98 |
| 19) Isopropyl Alcohol | 1.884 | 45 | 103348 | 8.415 | ppbv | 93 |
| 20) Methylene Chloride | 2.059 | 84 | 68588 | 8.461 | ppbv | 95 |
| 21) Allyl Chloride | 2.095 | 41 | 139965 | 9.118 | ppbv | 96 |
| 22) trans-1,2-Dichloroethene | 2.337 | 96 | 88334 | 8.896 | ppbv | 94 |
| 23) Vinyl Acetate | 2.460 | 43 | 73162 | 7.766 | ppbv # | 96 |
| 24) 1,1-Dichloroethane | 2.405 | 63 | 180404 | 9.801 | ppbv | 99 |
| 25) Ethyl Acetate | 2.833 | 43 | 567125 | 10.039 | ppbv | 98 |
| 26) Hexane | 2.823 | 57 | 214891 | 9.848 | ppbv | 97 |
| 27) Carbon Disulfide | 2.146 | 76 | 216499 | 9.253 | ppbv | 97 |
| 28) Methyl tert-Butyl Ether | 2.438 | 73 | 109726 | 8.077 | ppbv | 94 |
| 29) Chloroform | 2.845 | 83 | 340889 | 10.675 | ppbv | 99 |
| 30) Cyclohexane | 3.852 | 84 | 170359 | 8.991 | ppbv | 97 |
| 31) cis-1,2-Dichloroethene | 2.719 | 61 | 201796 | 9.110 | ppbv | 97 |
| 32) 1,1,1-Trichloroethane | 3.363 | 97 | 332252 | 9.088 | ppbv | 98 |
| 34) 2-Butanone | 2.554 | 43 | 313515 | 10.886 | ppbv | 98 |
| 35) Carbon Tetrachloride | 3.758 | 117 | 349240 | 11.256 | ppbv | 100 |
| 36) Benzene | 3.651 | 78 | 425324 | 10.802 | ppbv | 97 |
| 37) 1,2-Dichloroethane | 3.214 | 62 | 256791 | 11.391 | ppbv | 99 |
| 38) Trichloroethene | 4.541 | 130 | 170362 | 10.370 | ppbv | 97 |
| 39) 1,2-Dichloropropane | 4.312 | 63 | 153583 | 10.710 | ppbv | 95 |
| 40) 1,4-Dioxane | 4.577 | 88 | 72604 | 9.539 | ppbv # | 95 |
| 41) Tetrahydrofuran | 3.053 | 42 | 175060 | 10.556 | ppbv | 95 |
| 42) Bromodichloromethane | 4.483 | 83 | 358962 | 11.551 | ppbv | 100 |
| 43) Methyl Methacrylate | 4.875 | 69 | 154975 | 9.297 | ppbv | 97 |
| 44) 2,2,4-Trimethylpentane | 4.635 | 57 | 742388 | 11.157 | ppbv | 96 |
| 45) t-1,3-Dichloropropene | 6.412 | 75 | 147204 | 8.231 | ppbv | 98 |

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042286.D
Acq On : 09 Apr 2025 10:20
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 01:39:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.593 | 75 | 195802 | 8.932 | ppbv | | 98 |
| 47) 1,1,2-Trichloroethane | 6.574 | 97 | 172343 | 11.369 | ppbv | | 97 |
| 48) Dibromochloromethane | 7.380 | 129 | 280199 | 10.907 | ppbv | | 100 |
| 49) Bromoform | 9.481 | 173 | 250227 | 10.849 | ppbv | | 99 |
| 50) 4-Methyl-2-Pentanone | 5.745 | 43 | 445454 | 9.760 | ppbv | | 95 |
| 51) 2-Hexanone | 7.432 | 43 | 353706 | 9.437 | ppbv | # | 94 |
| 52) Tetrachloroethene | 8.222 | 164 | 141976 | 9.092 | ppbv | | 95 |
| 53) Toluene | 6.927 | 91 | 464948 | 9.961 | ppbv | | 99 |
| 54) 1,2-Dibromoethane | 7.649 | 107 | 229720 | 10.871 | ppbv | | 96 |
| 56) 1,1,1,2-Tetrachloroethane | 8.921 | 131 | 231041 | 11.987 | ppbv | | 98 |
| 57) Chlorobenzene | 8.917 | 112 | 399227 | 12.021 | ppbv | | 93 |
| 58) Ethyl Benzene | 9.351 | 91 | 673801 | 10.834 | ppbv | | 98 |
| 59) m/p-Xylene | 9.549 | 91 | 1161067m | 23.379 | ppbv | | |
| 60) o-Xylene | 9.960 | 91 | 581045 | 11.671 | ppbv | | 97 |
| 61) Styrene | 9.869 | 104 | 251525 | 10.212 | ppbv | | 98 |
| 62) Isopropylbenzene | 10.536 | 105 | 859013 | 11.538 | ppbv | | 99 |
| 63) 1,1,2,2-Tetrachloroethane | 9.960 | 83 | 381841 | 12.623 | ppbv | | 99 |
| 64) n-propylbenzene | 10.986 | 120 | 228532 | 11.925 | ppbv | | 100 |
| 65) tert-Butylbenzene | 11.529 | 119 | 784483 | 11.393 | ppbv | | 100 |
| 66) Benzyl Chloride | 11.614 | 91 | 57966 | 7.934 | ppbv | | 100 |
| 67) sec-Butylbenzene | 11.766 | 105 | 1128106 | 11.787 | ppbv | | 100 |
| 69) p-Isopropyltoluene | 11.924 | 119 | 961623 | 11.669 | ppbv | | 99 |
| 70) n-Butylbenzene | 12.280 | 91 | 998455 | 11.847 | ppbv | | 99 |
| 71) 2-Chlorotoluene | 10.898 | 91 | 654276 | 11.323 | ppbv | | 98 |
| 72) 4-Ethyltoluene | 11.122 | 105 | 728517 | 11.753 | ppbv | | 99 |
| 73) 1,3,5-Trimethylbenzene | 11.202 | 105 | 620415 | 11.460 | ppbv | | 100 |
| 74) 1,2,4-Trimethylbenzene | 11.536 | 105 | 709204 | 11.371 | ppbv | | 97 |
| 75) 1,3-Dichlorobenzene | 11.607 | 146 | 426300 | 12.462 | ppbv | | 98 |
| 76) 1,4-Dichlorobenzene | 11.669 | 146 | 423561 | 12.442 | ppbv | | 99 |
| 77) 1,2-Dichlorobenzene | 11.947 | 146 | 419286 | 12.589 | ppbv | | 99 |
| 78) Hexachloro-1,3-Butadiene | 13.879 | 225 | 334414 | 9.864 | ppbv | | 99 |
| 79) Naphthalene | 13.513 | 128 | 808459 | 11.851 | ppbv | | 99 |
| 80) Naphthalene,2-methyl- | 14.459 | 142 | 373298 | 11.158 | ppbv | | 100 |
| 81) 1,2,4-Trichlorobenzene | 13.439 | 180 | 355741 | 11.305 | ppbv | | 100 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

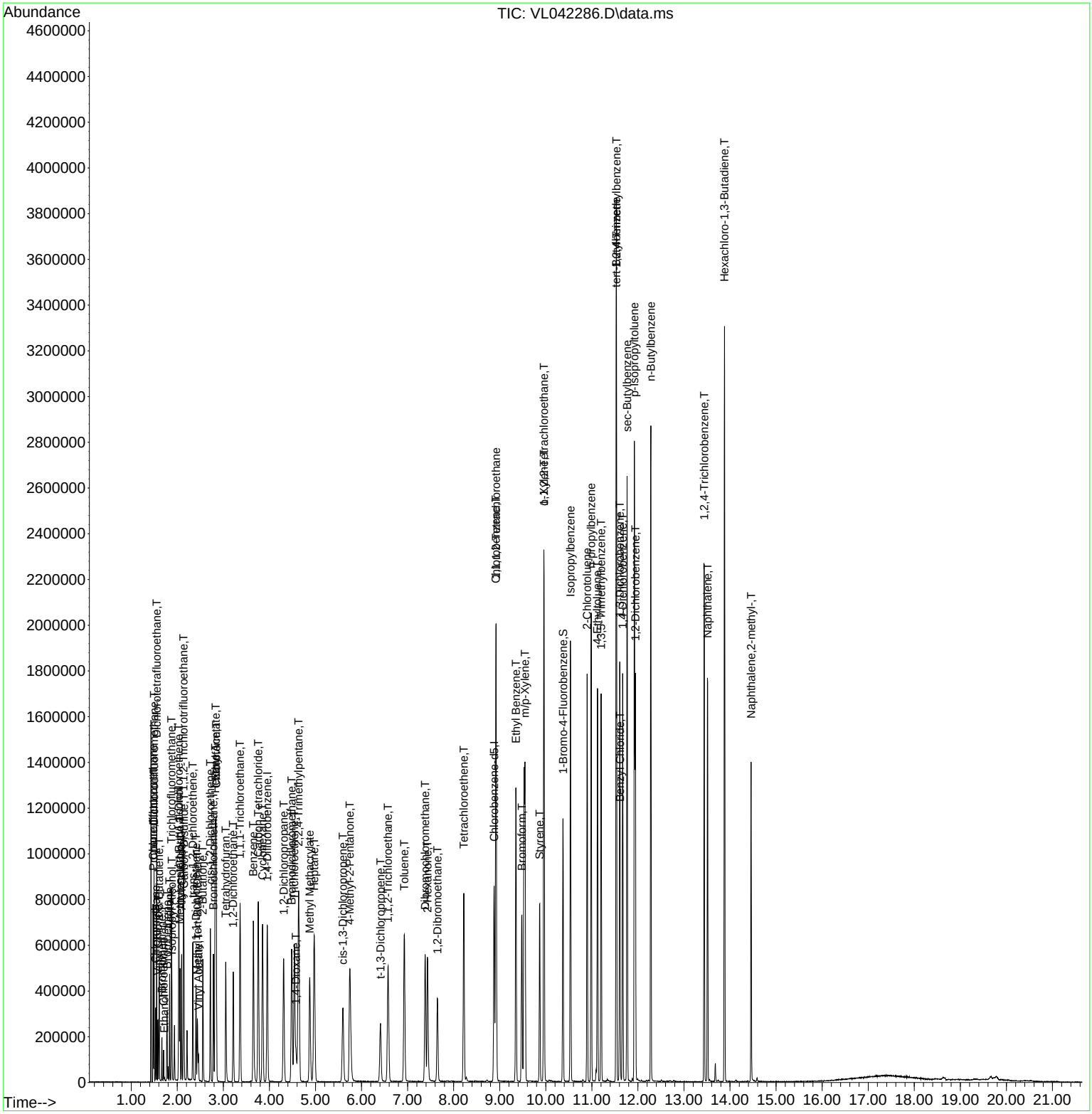
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042286.D
Acq On : 09 Apr 2025 10:20
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

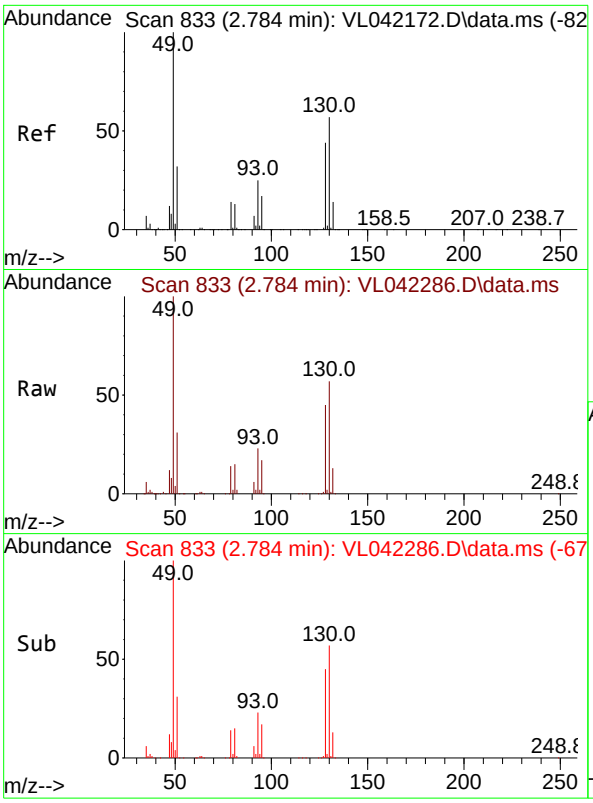
Quant Time: Apr 10 01:39:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

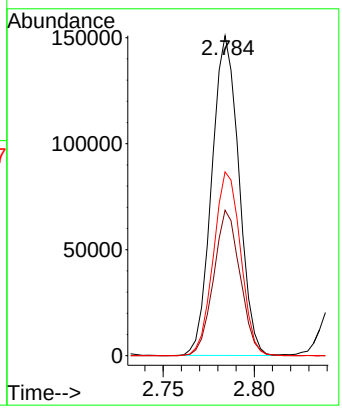





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 49 Resp: 15563

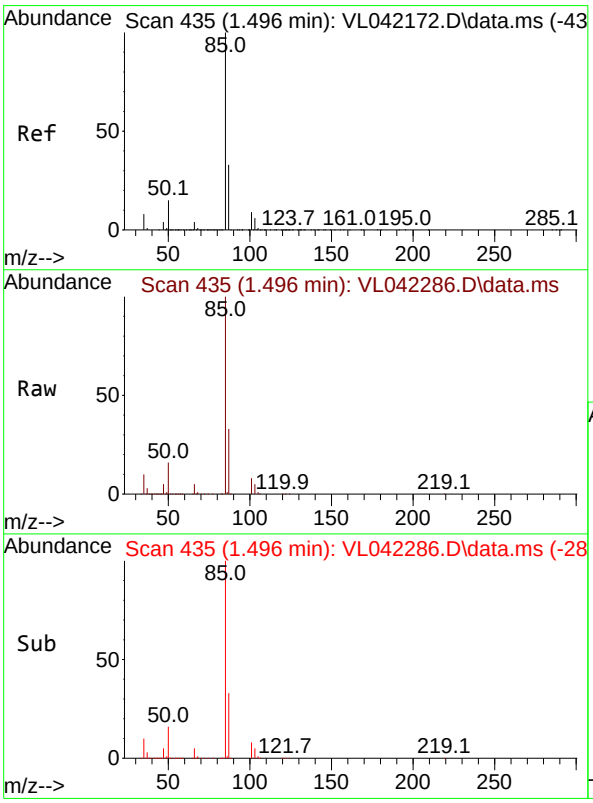
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 44.6 | 22.9 | 68.5 |
| 130 | 57.7 | 28.8 | 86.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
**APPROVED**

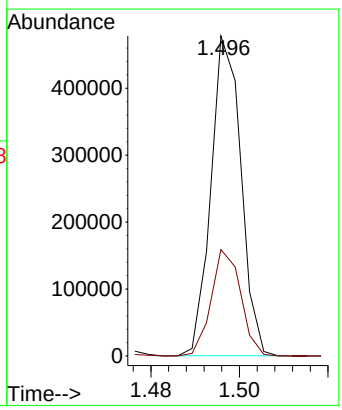
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

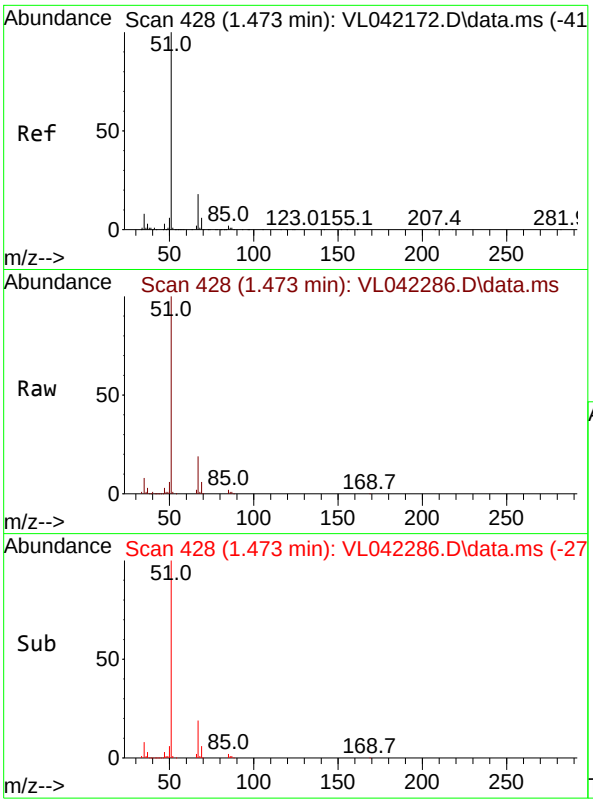



#2
Dichlorodifluoromethane
Concen: 9.780 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 85 Resp: 224739

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.3 | 26.1 | 39.1 |

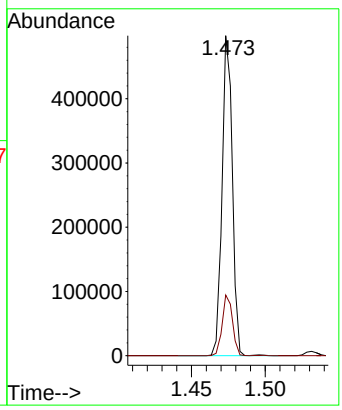





#3
Chlorodifluoromethane
Concen: 10.325 ppbv
RT: 1.473 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 51 Resp: 24236

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 19.0 | 15.0 | 22.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/10/2025
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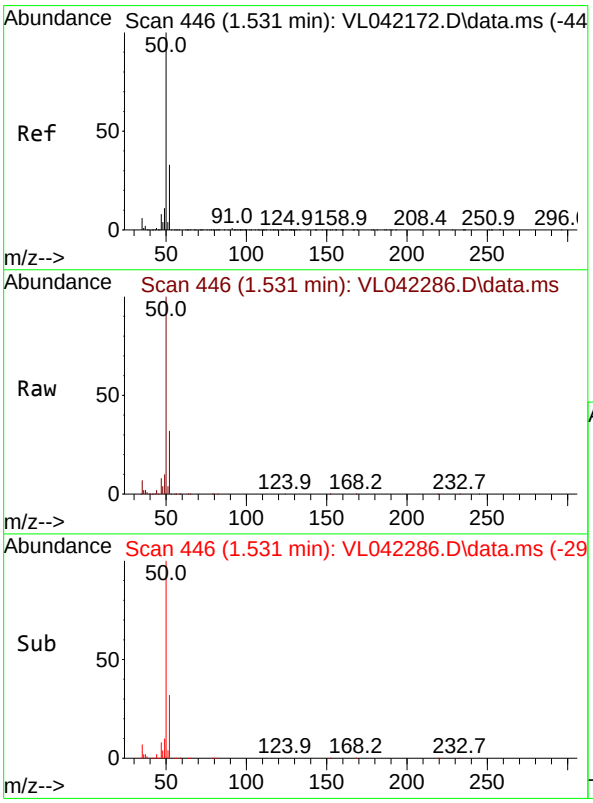
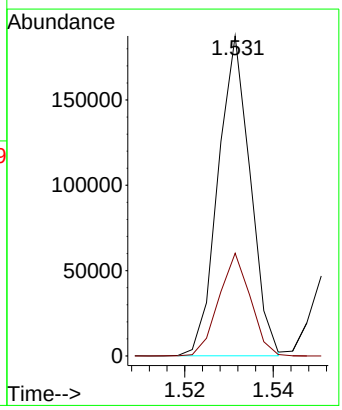
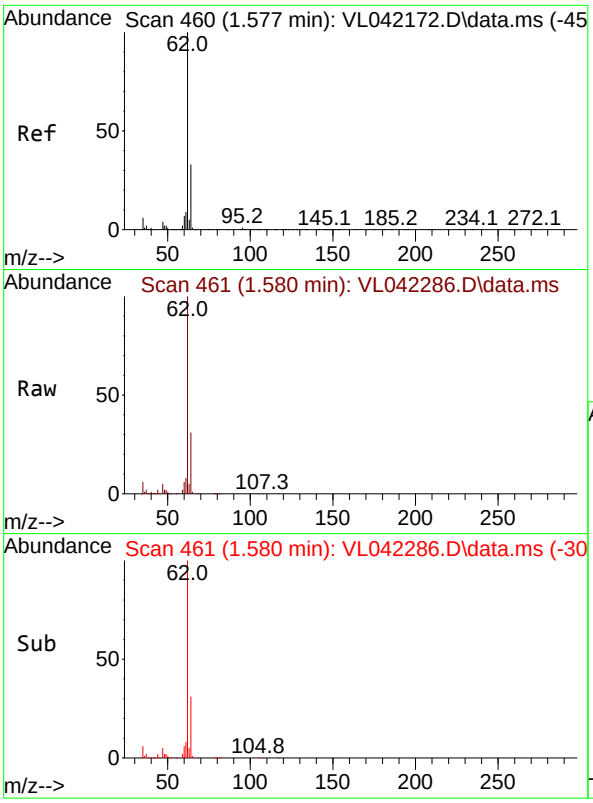



#4
Chloromethane
Concen: 10.054 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 50 Resp: 94421

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.1 | 26.1 | 39.1 |

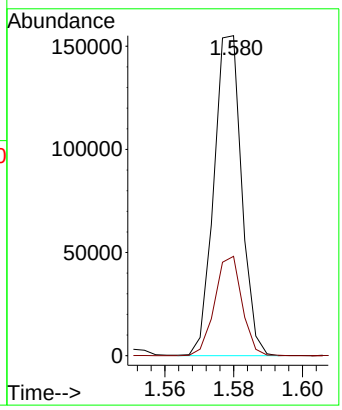





#5
Vinyl Chloride
Concen: 8.750 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 62 Resp: 8707

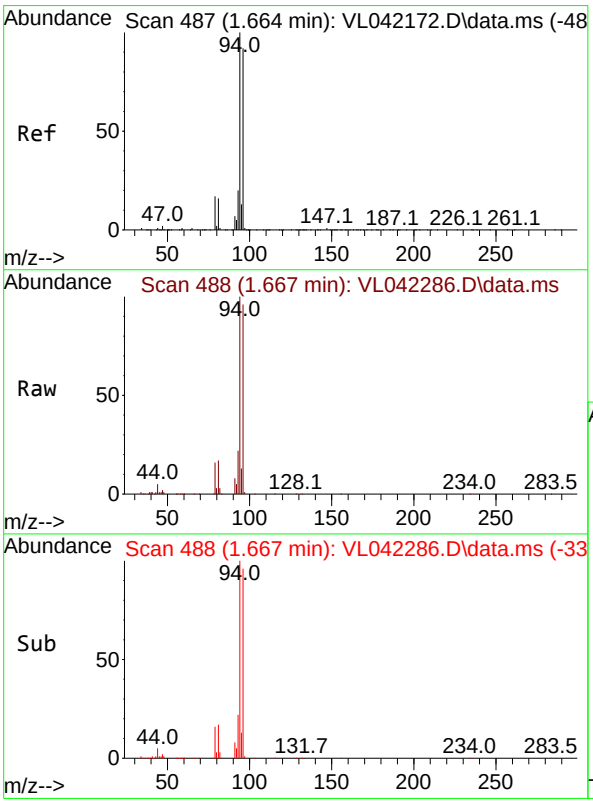
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.1 | 26.6 | 40.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
**APPROVED**

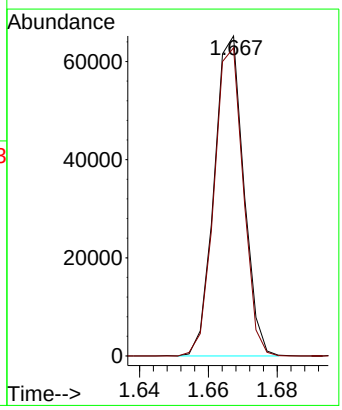
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

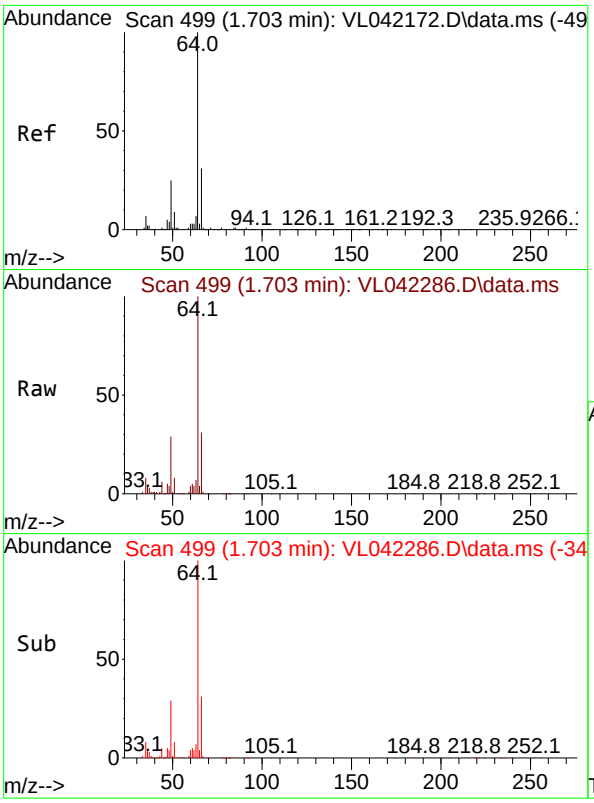



#6
Bromomethane
Concen: 9.136 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 94 Resp: 38883

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 96.3 | 73.1 | 109.7 |

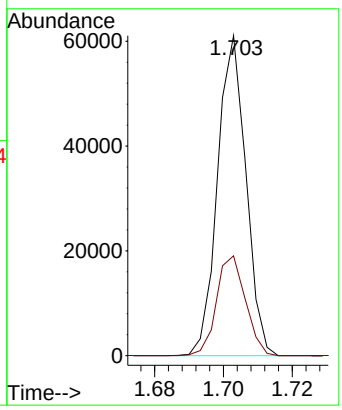





#7
Chloroethane
Concen: 9.290 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 64 Resp: 3501

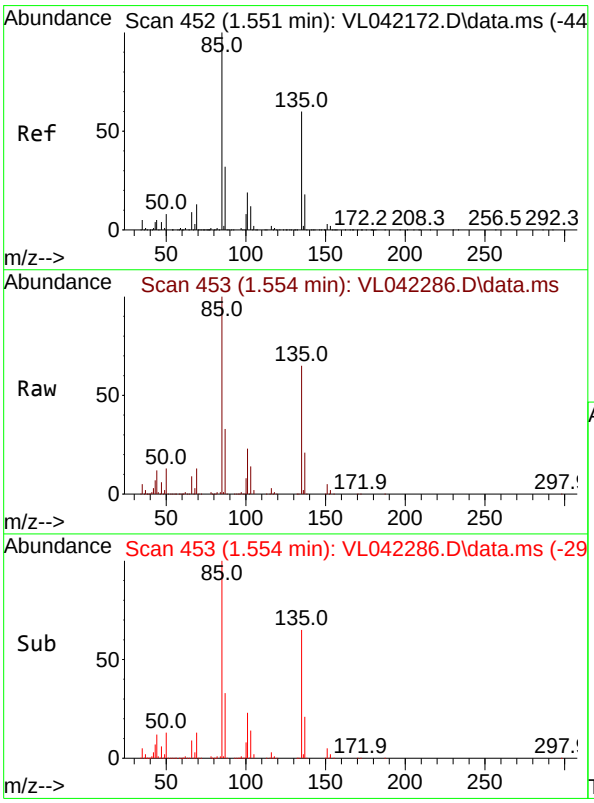
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 31.2 | 25.2 | 37.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
**APPROVED**

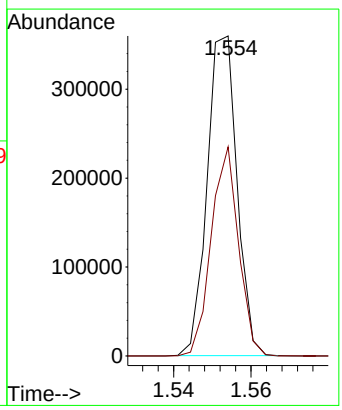
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

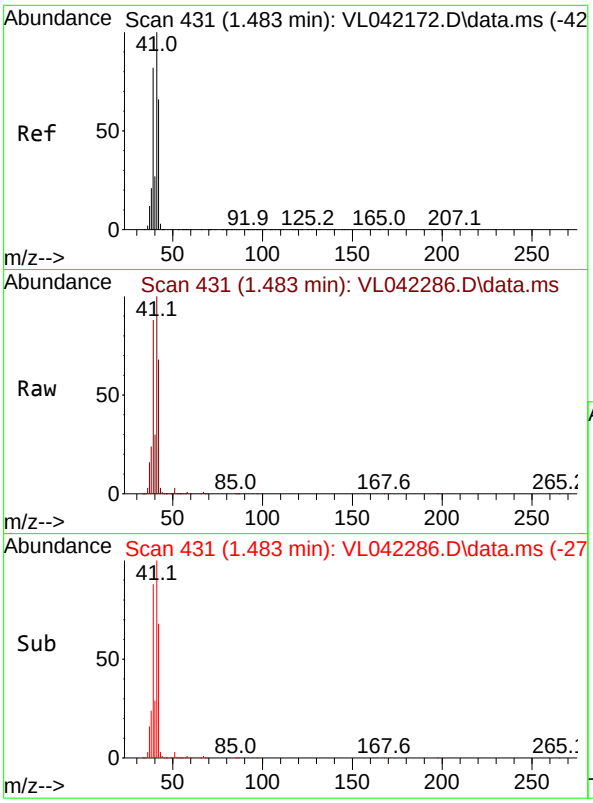



#8
Dichlorotetrafluoroethane
Concen: 9.882 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 85 Resp: 193376

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 59.6 | 52.4 | 78.6 |

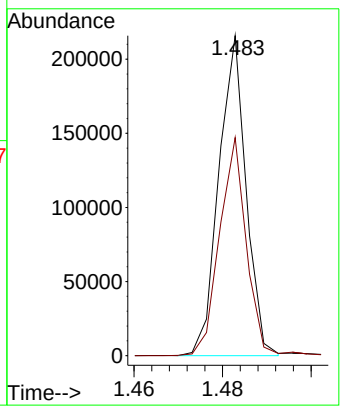





#9
Propene
Concen: 8.573 ppbv
RT: 1.483 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 41 Resp: 9224

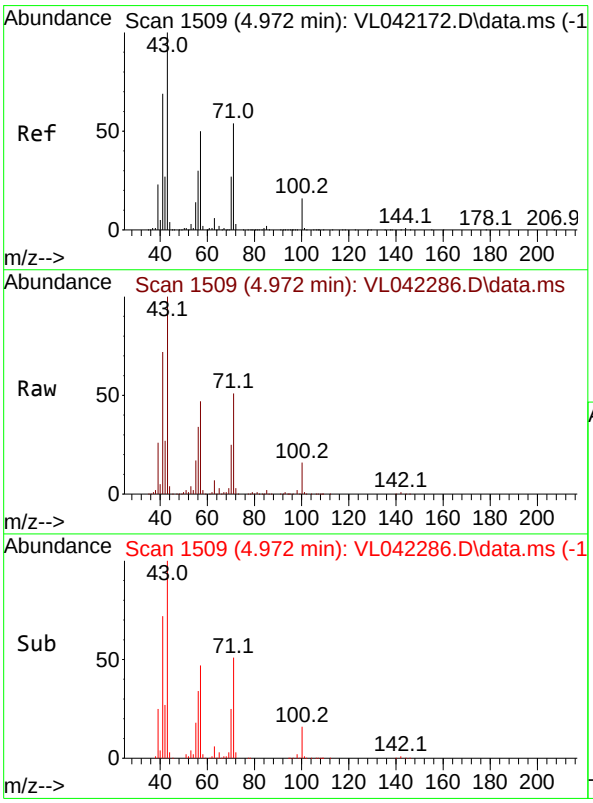
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 67.9 | 55.4 | 83.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
**APPROVED**

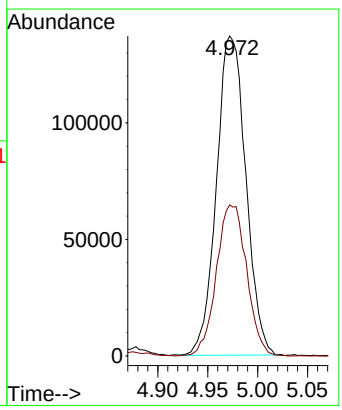
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

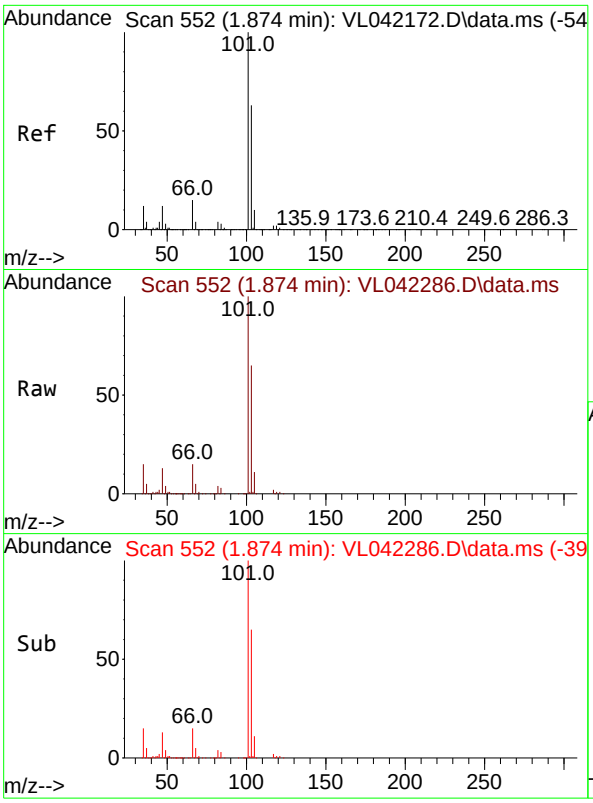



#10
Heptane
Concen: 9.789 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 43 Resp: 280156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 48.8 | 39.4 | 59.2 |

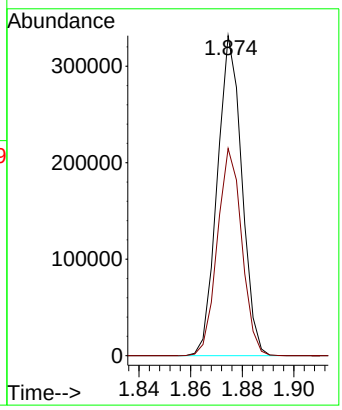





#11
Trichlorofluoromethane
Concen: 9.783 ppbv
RT: 1.874 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:101 Resp: 21872

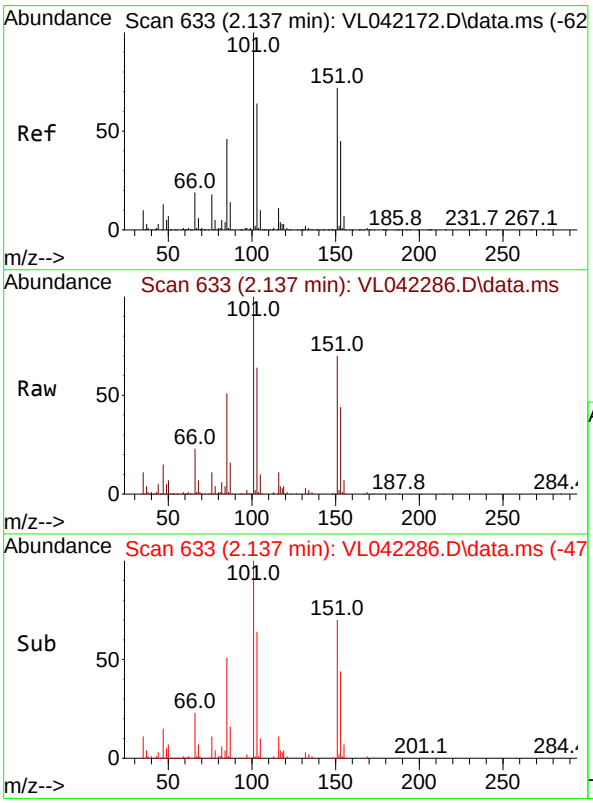
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.8 | 50.2 | 75.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
**APPROVED**

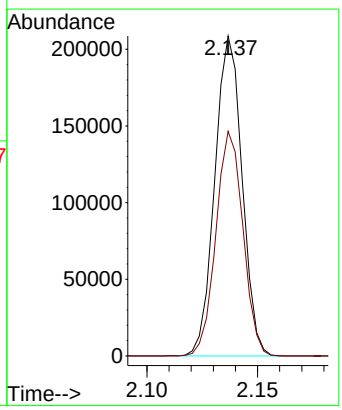
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

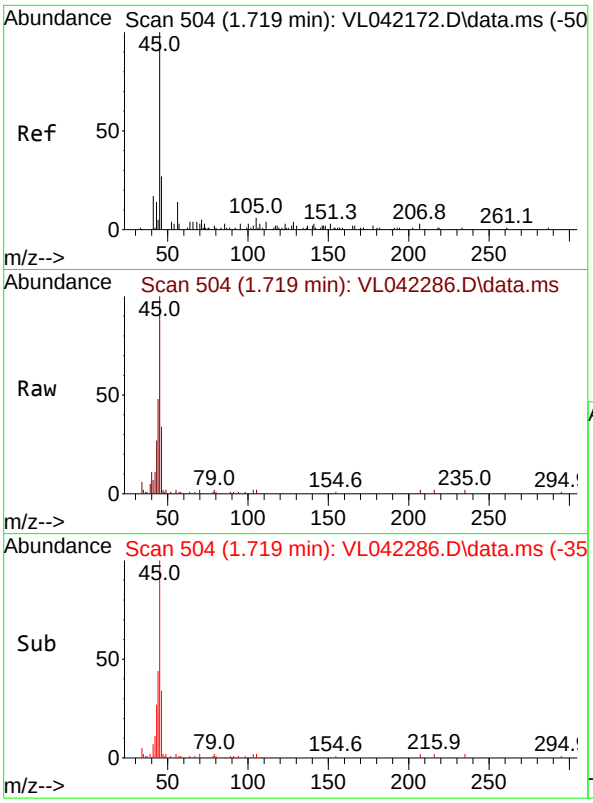



#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.726 ppbv
RT: 2.137 min Scan# 633
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:101 Resp: 178752

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 69.7 | 57.1 | 85.7 |

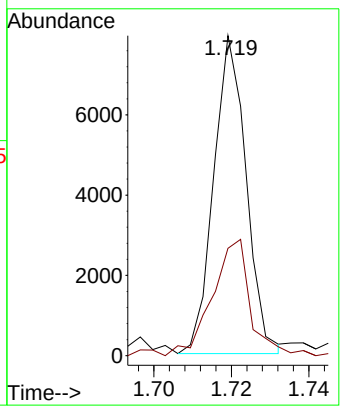





#13
Ethanol
Concen: 4.530 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 45 Resp: 460

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 44.9 | 20.2 | 80.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

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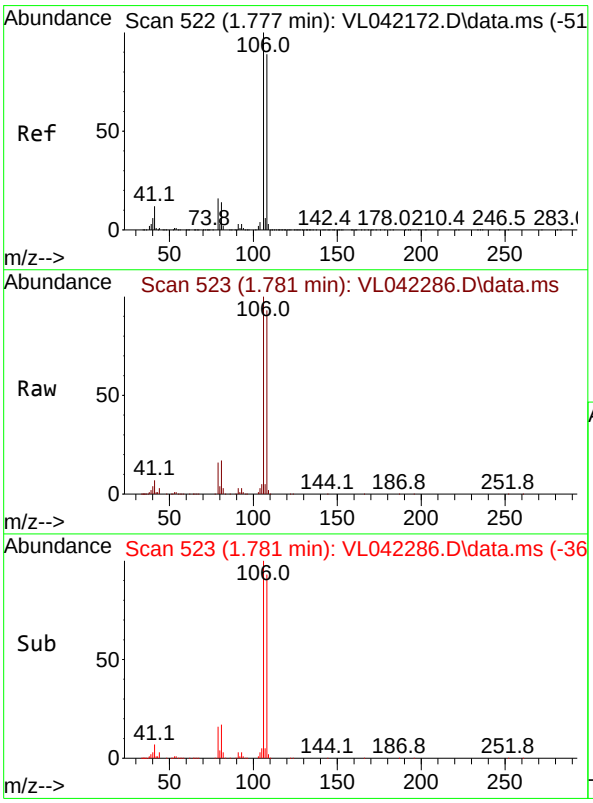
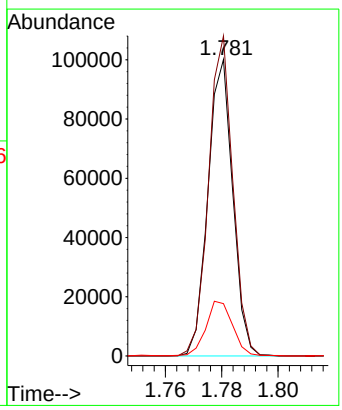
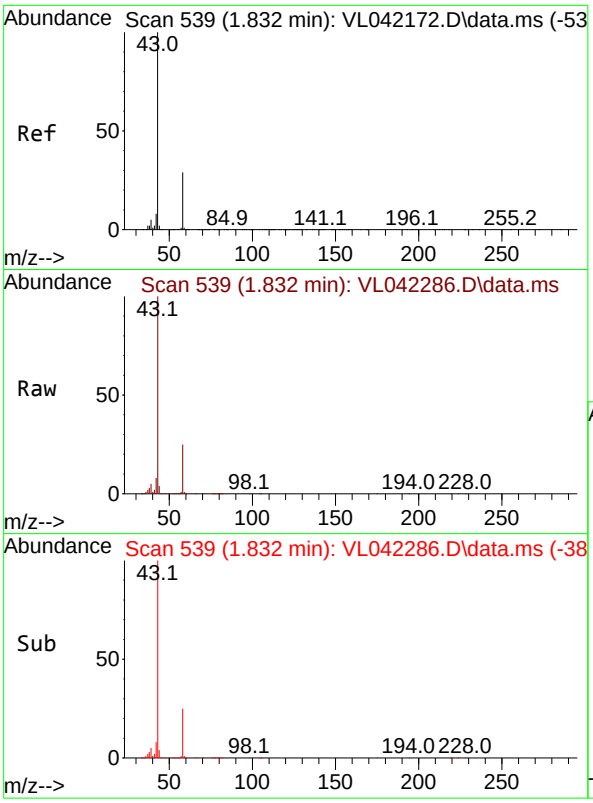



#14
Bromoethene
Concen: 8.693 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:108 Resp: 61204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 106 | 105.7 | 86.8 | 130.2 |
| 79 | 20.3 | 15.0 | 22.6 |

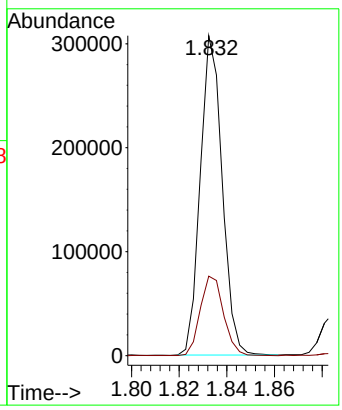





#15
Acetone
Concen: 9.008 ppbv
RT: 1.832 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 43 Resp: 19606

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 26.8 | 23.2 | 34.8 |

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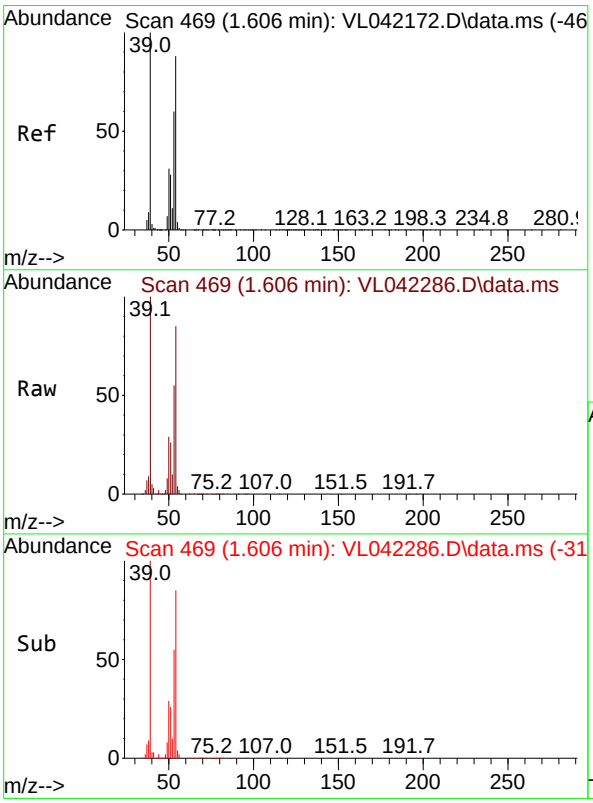
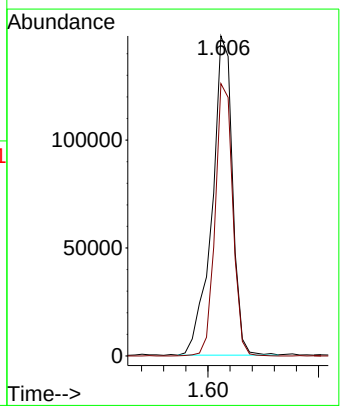
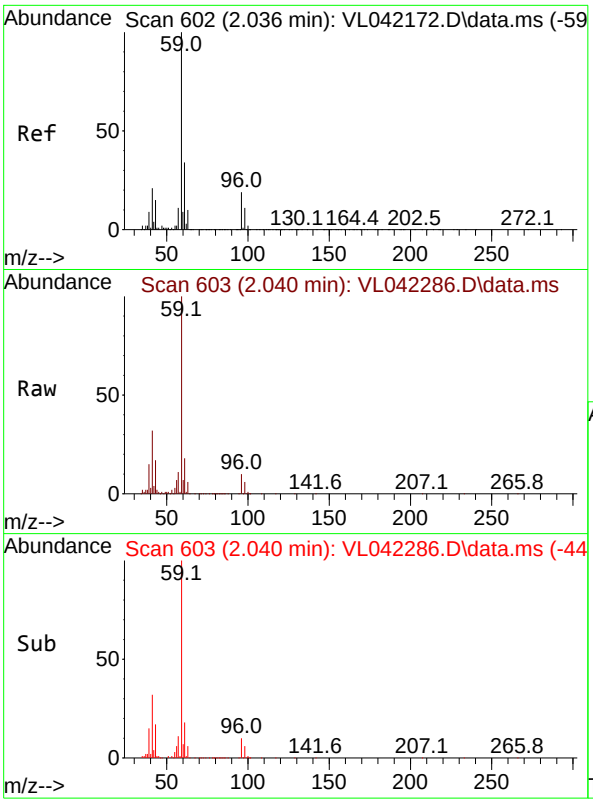



#16
1,3-Butadiene
Concen: 8.931 ppbv
RT: 1.606 min Scan# 469
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 39 Resp: 94932

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 73.9 | 60.7 | 91.1 |

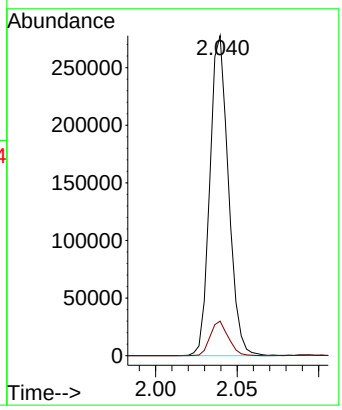





#17
tert-Butyl alcohol
Concen: 8.122 ppbv
RT: 2.040 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 59 Resp: 22018

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.5 | 8.9 | 13.3 |

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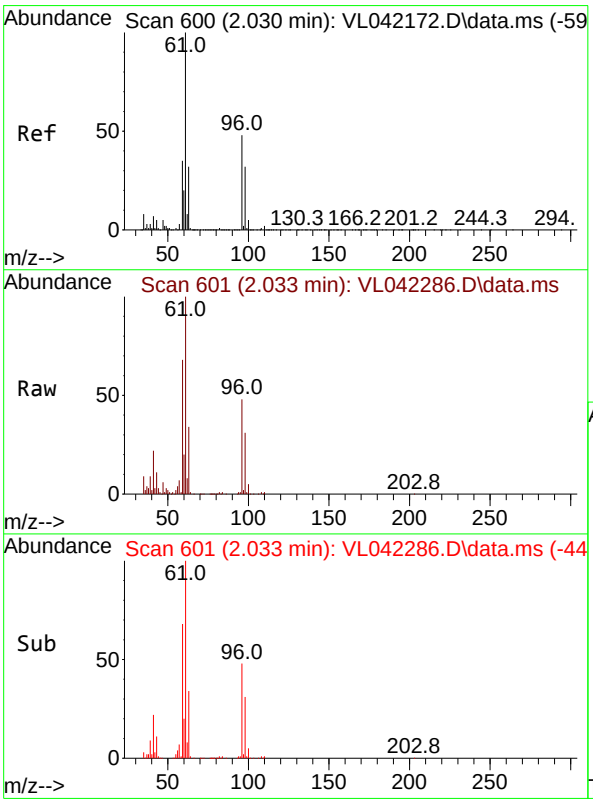
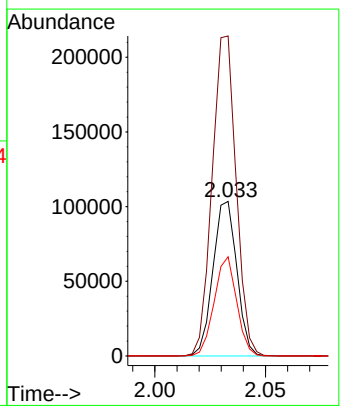
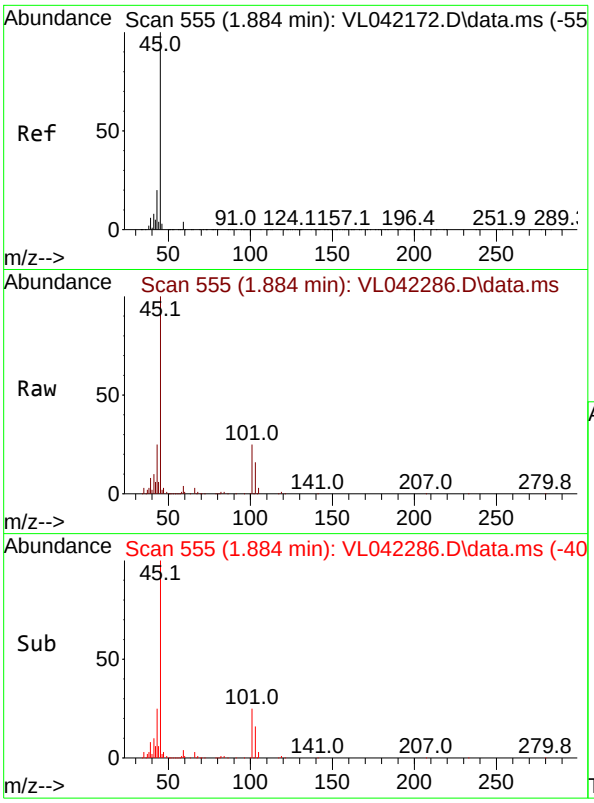



#18
1,1-Dichloroethene
Concen: 9.042 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 96 Resp: 77686

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 207.1 | 167.6 | 251.4 |
| 98 | 64.2 | 53.5 | 80.3 |

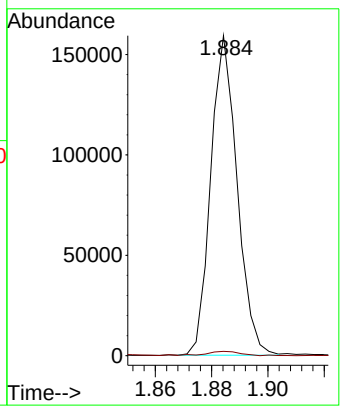





#19
Isopropyl Alcohol
Concen: 8.415 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 45 Resp: 10334

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 50.7 | 36.9 | 55.3 |

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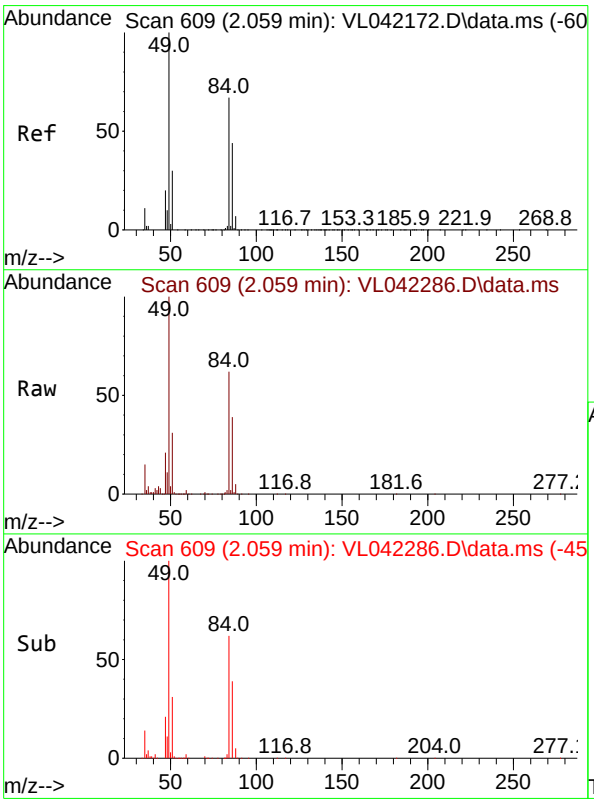
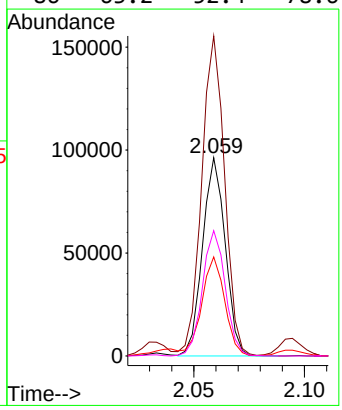
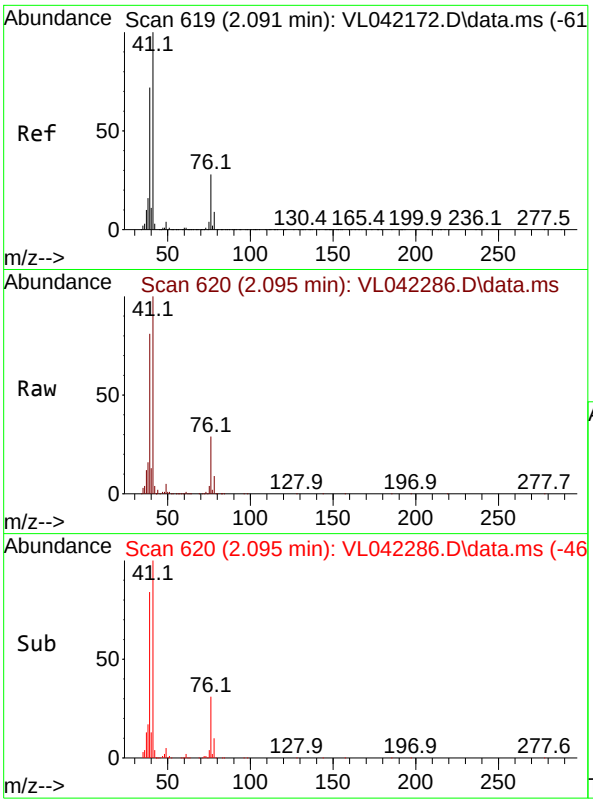



#20
Methylene Chloride
Concen: 8.461 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 84 Resp: 68588

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 159.3 | 120.2 | 180.4 |
| 51 | 48.1 | 37.4 | 56.0 |
| 86 | 63.2 | 52.4 | 78.6 |






#21
Allyl Chloride
Concen: 9.118 ppbv
RT: 2.095 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 41 Resp: 13996

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 27.7 | 24.1 | 36.1 |
| 39 | 79.7 | 61.1 | 91.7 |

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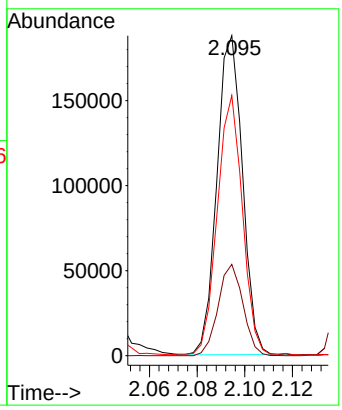
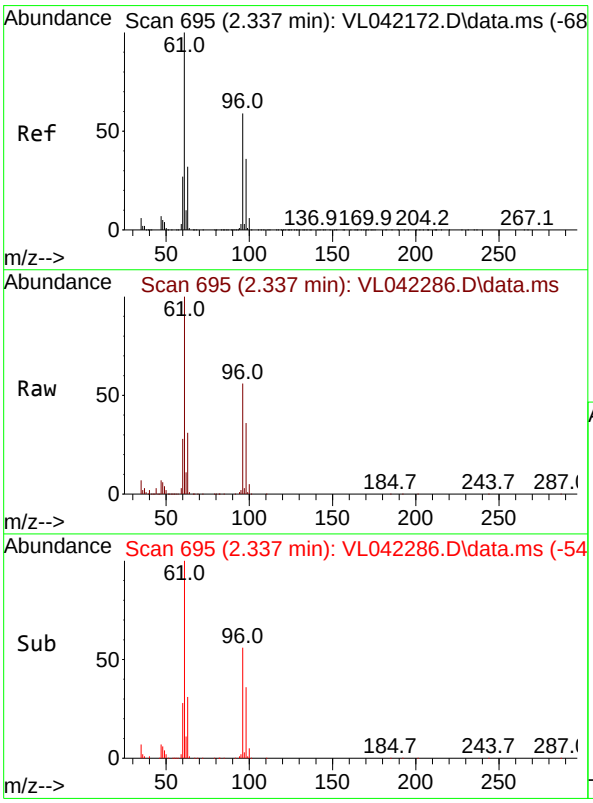
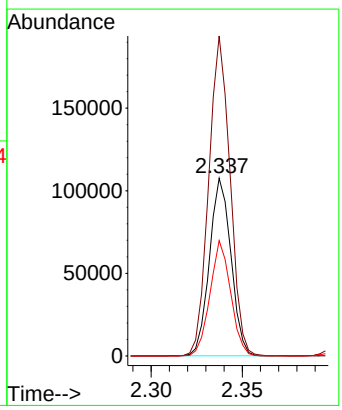


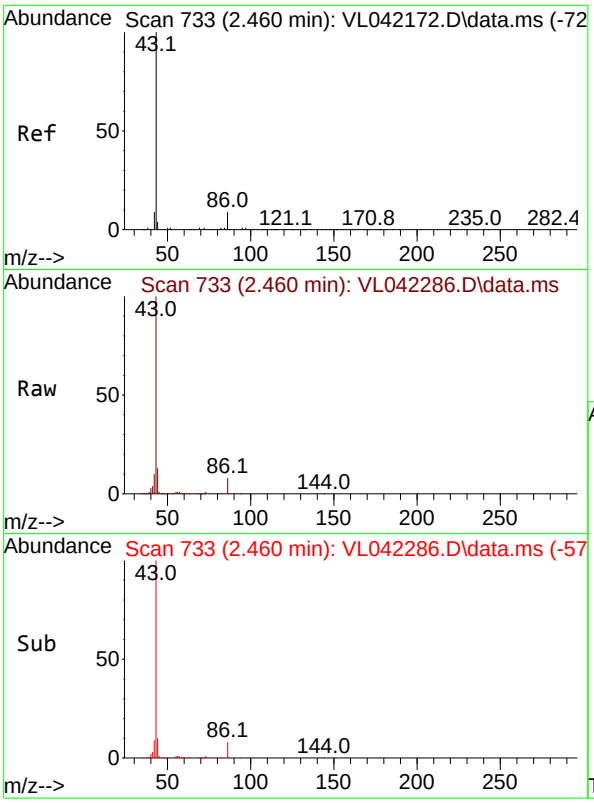




#22
trans-1,2-Dichloroethene
Concen: 8.896 ppbv
RT: 2.337 min Scan# 695
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 96 Resp: 88334

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 180.1 | 136.6 | 204.8 |
| 98 | 64.9 | 49.4 | 74.2 |

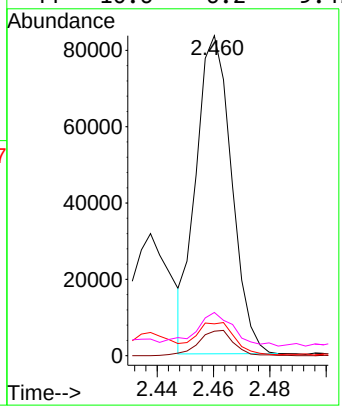





#23
Vinyl Acetate
Concen: 7.766 ppbv
RT: 2.460 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 43 Resp: 7316

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 7.6 | 5.5 | 8.3 |
| 42 | 9.7 | 8.6 | 13.0 |
| 44 | 10.6 | 6.2 | 9.4# |

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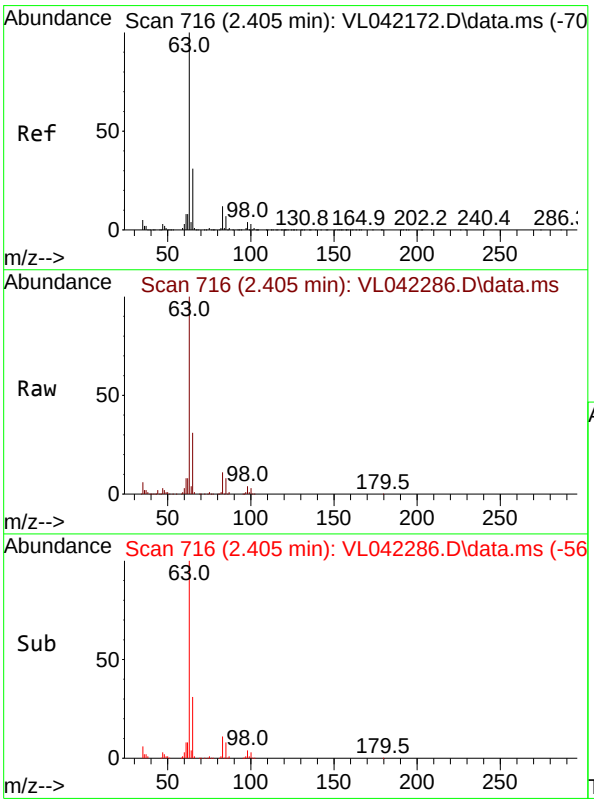
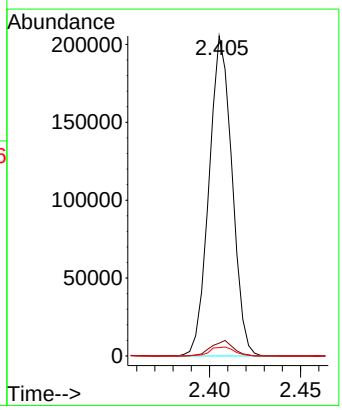
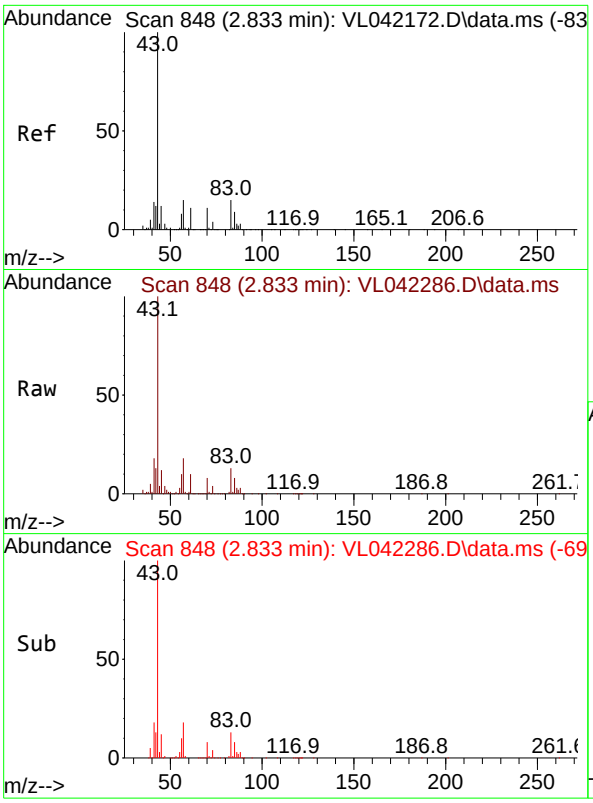



#24
1,1-Dichloroethane
Concen: 9.801 ppbv
RT: 2.405 min Scan# 716
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 63 Resp: 180404

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 4.0 | 2.3 | 6.8 |
| 100 | 2.6 | 1.6 | 4.7 |

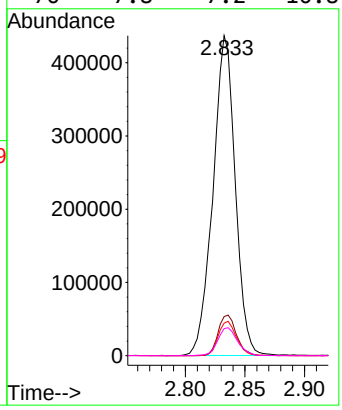





#25
Ethyl Acetate
Concen: 10.039 ppbv
RT: 2.833 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 43 Resp: 56712

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 10.5 | 8.2 | 12.2 |
| 61 | 8.9 | 7.3 | 10.9 |
| 70 | 7.8 | 7.2 | 10.8 |

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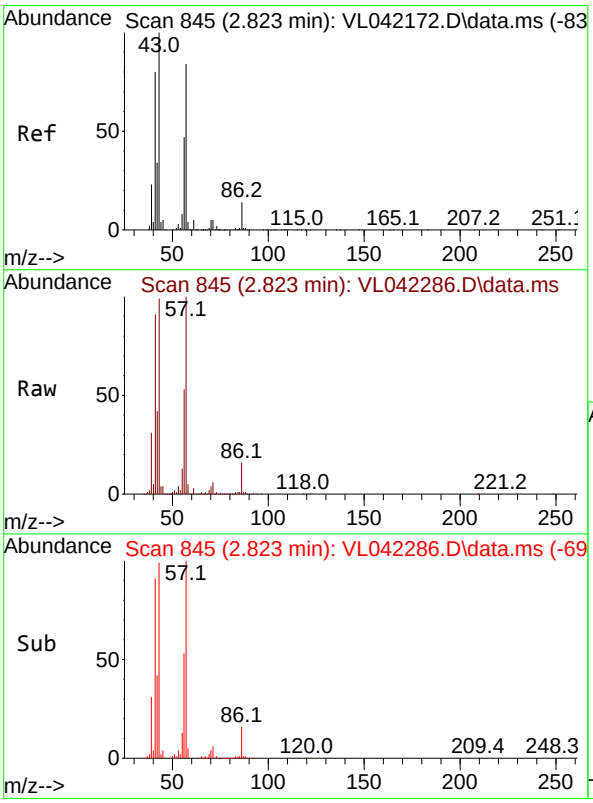
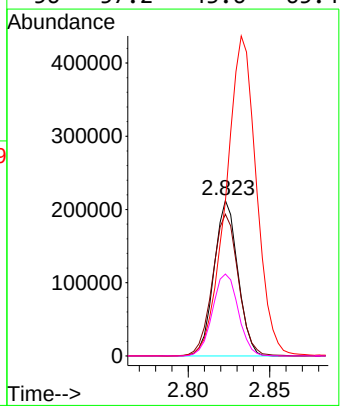
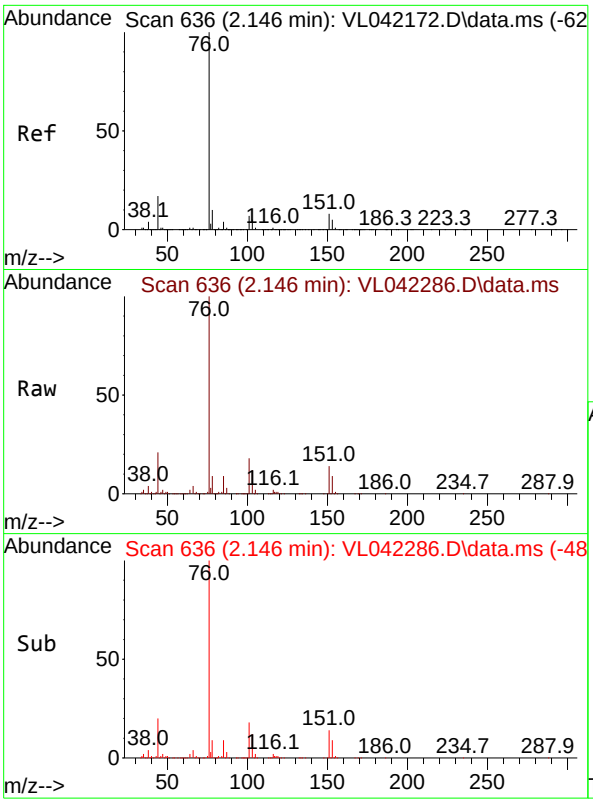



#26
Hexane
Concen: 9.848 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 57 Resp: 214891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 99.1 | 76.6 | 114.8 |
| 43 | 264.9 | 207.8 | 311.8 |
| 56 | 57.2 | 43.6 | 65.4 |






#27
Carbon Disulfide
Concen: 9.253 ppbv
RT: 2.146 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 76 Resp: 21649

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 20.6 | 14.7 | 22.1 |
| 78 | 11.8 | 9.3 | 13.9 |

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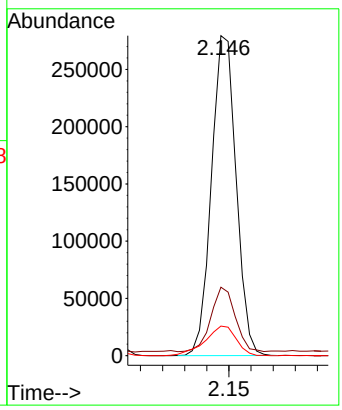
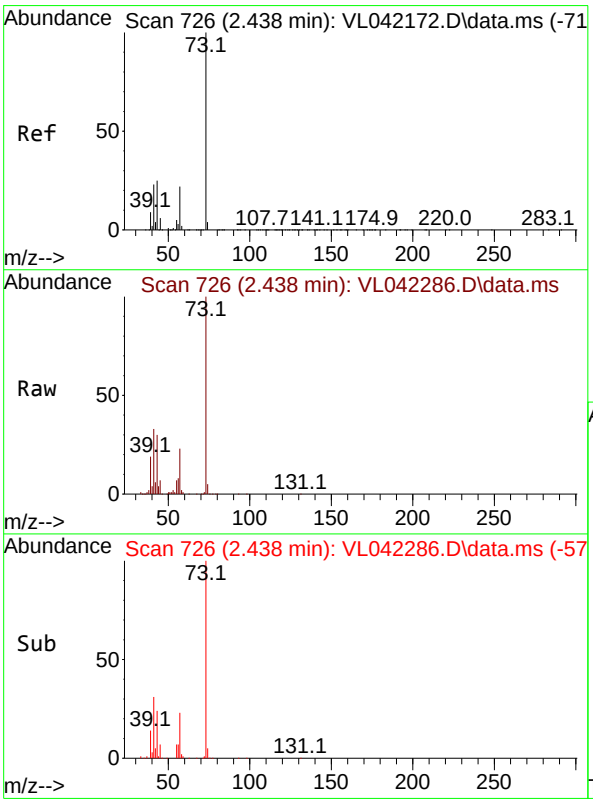
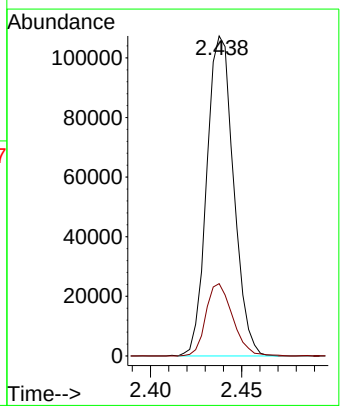


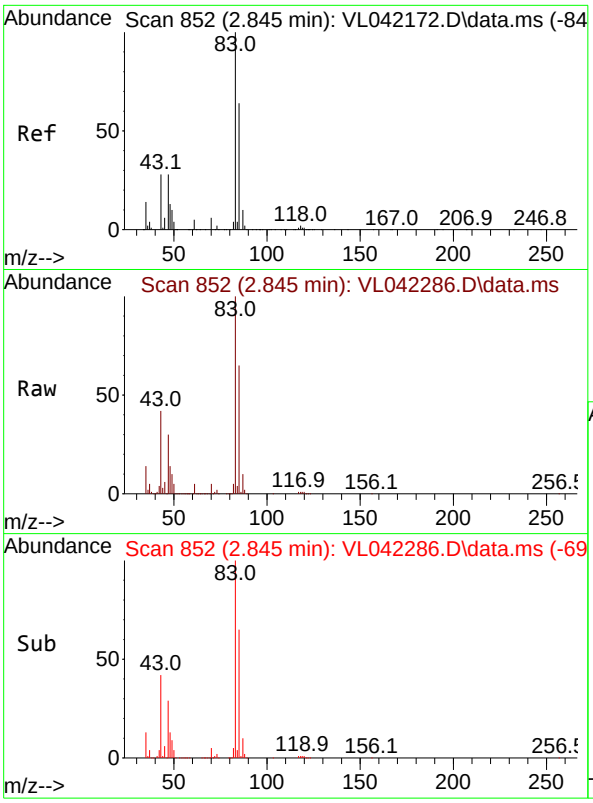




#28
Methyl tert-Butyl Ether
Concen: 8.077 ppbv
RT: 2.438 min Scan# 726
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 73 Resp: 109726

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.6 | 20.5 | 30.7 |

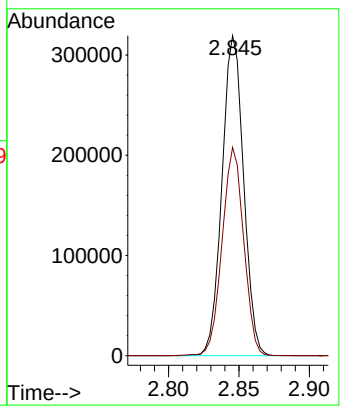





#29
Chloroform
Concen: 10.675 ppbv
RT: 2.845 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 83 Resp: 34088

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.0 | 51.4 | 77.2 |

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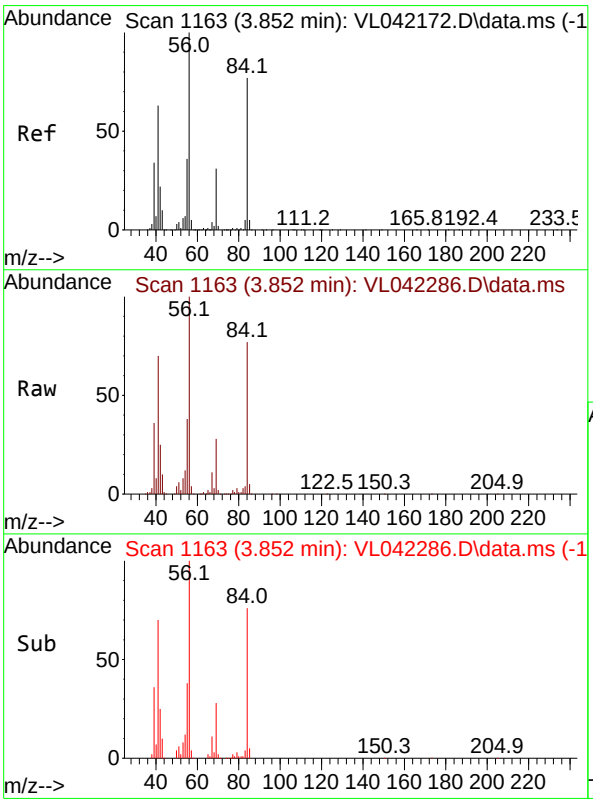
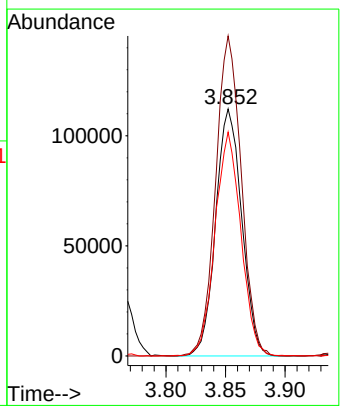
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

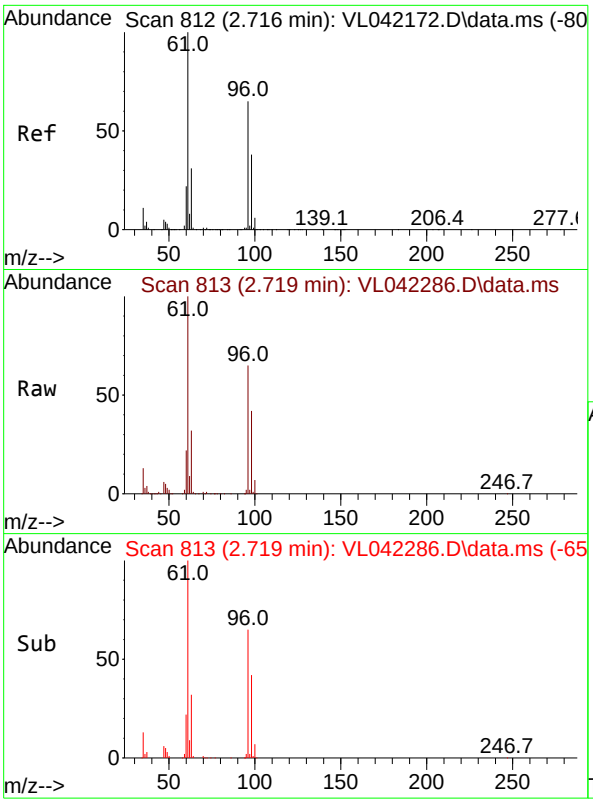



#30
Cyclohexane
Concen: 8.991 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 84 Resp: 170359

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 127.8 | 102.8 | 154.2 |
| 41 | 90.1 | 66.5 | 99.7 |

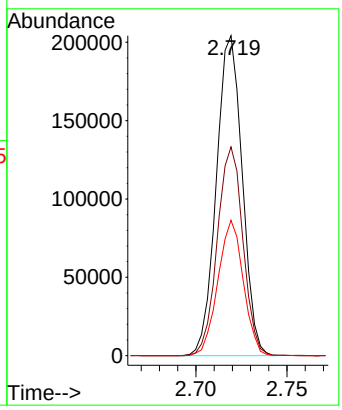





#31
cis-1,2-Dichloroethene
Concen: 9.110 ppbv
RT: 2.719 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 61 Resp: 20179

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 65.3 | 51.8 | 77.8 |
| 98 | 42.3 | 30.6 | 46.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

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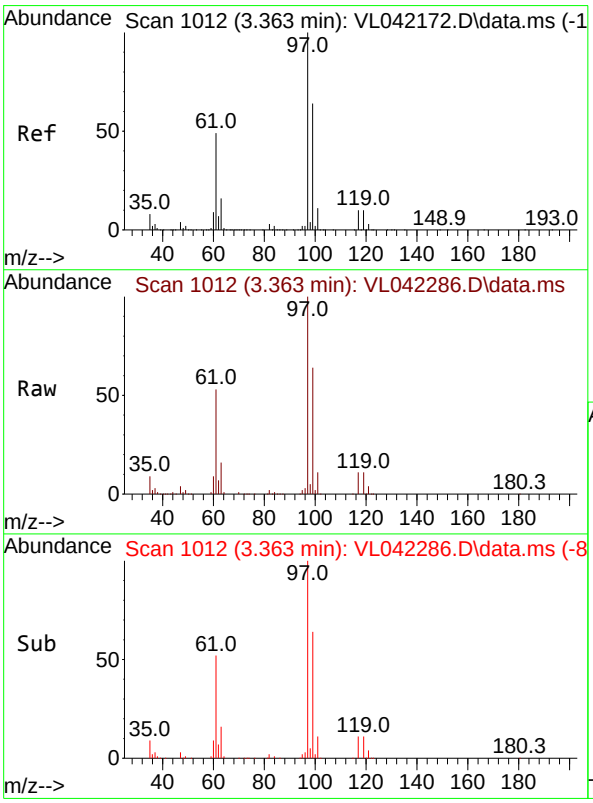
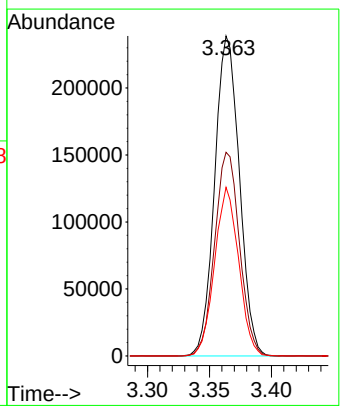
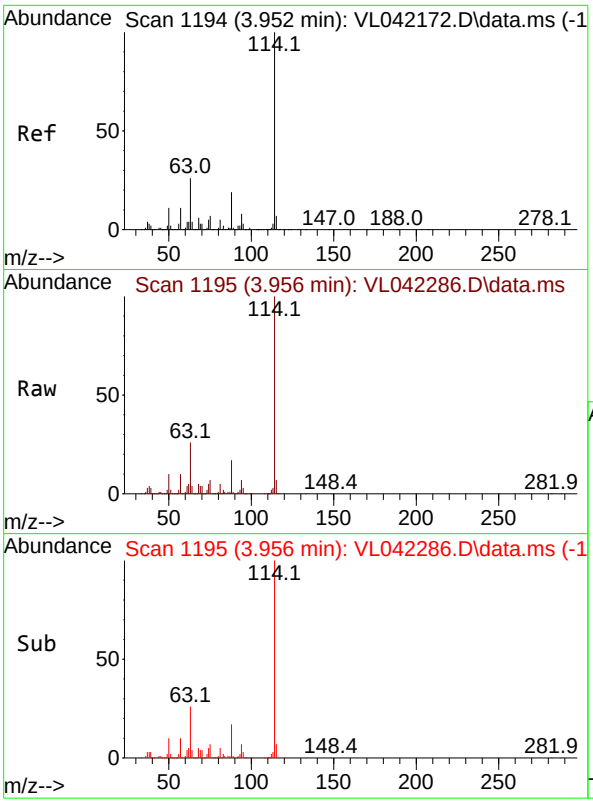



#32
1,1,1-Trichloroethane
Concen: 9.088 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 97 Resp: 332252

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.1 | 51.5 | 77.3 |
| 61 | 51.3 | 38.7 | 58.1 |

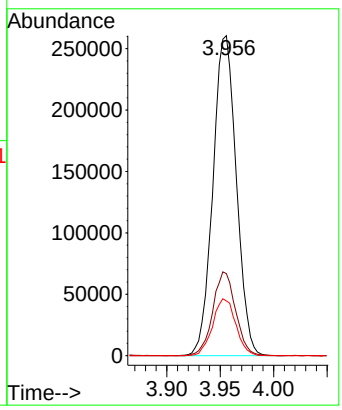





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:114 Resp: 39717

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.6 | 20.7 | 31.1 |
| 88 | 17.6 | 15.0 | 22.4 |

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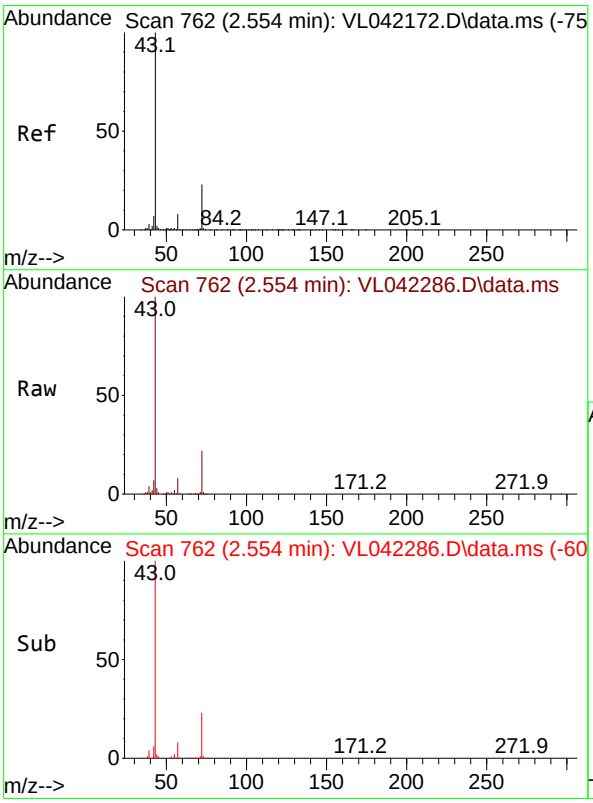
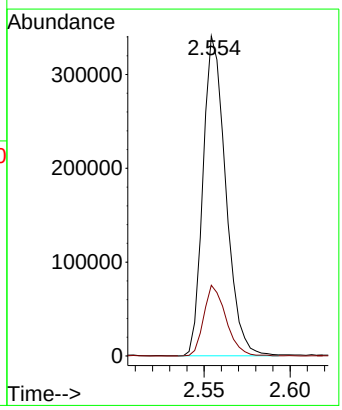
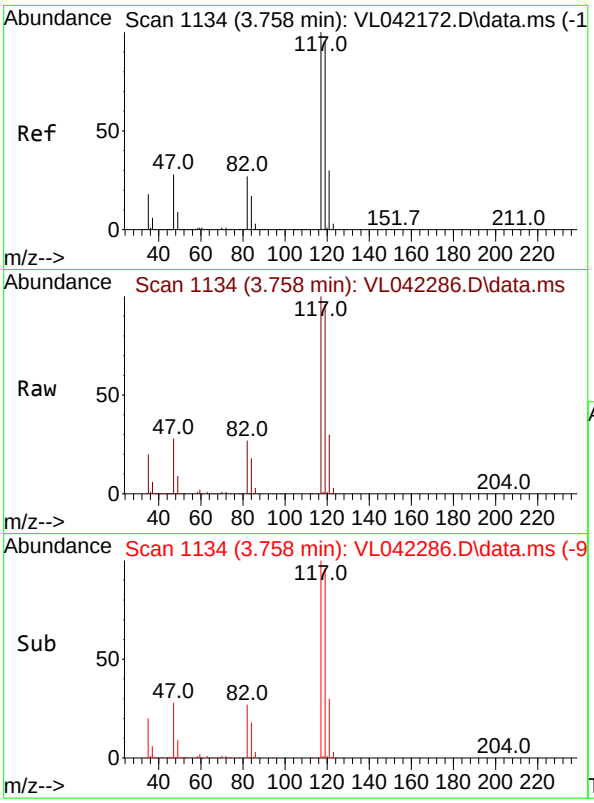



#34
2-Butanone
Concen: 10.886 ppbv
RT: 2.554 min Scan# 762
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 43 Resp: 313515

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 21.7 | 18.2 | 27.2 |

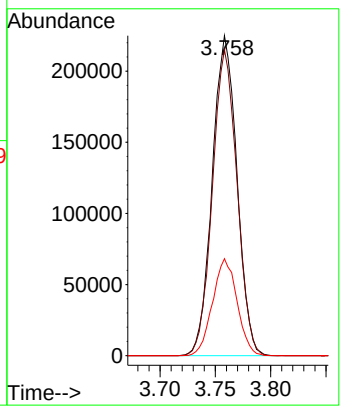





#35
Carbon Tetrachloride
Concen: 11.256 ppbv
RT: 3.758 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:117 Resp: 34924

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 95.6 | 76.2 | 114.2 |
| 121 | 30.3 | 24.2 | 36.4 |

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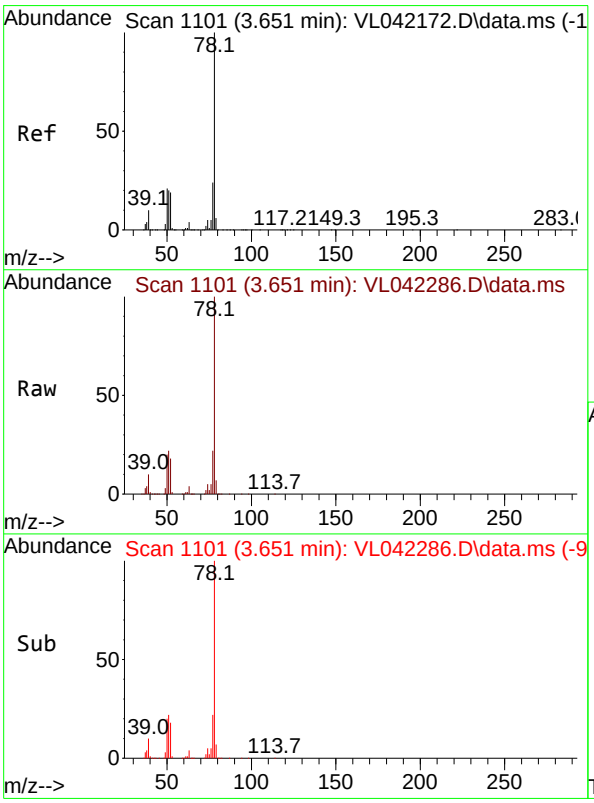
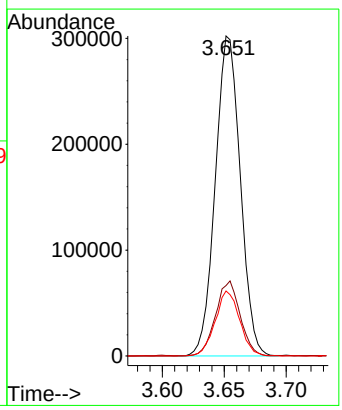
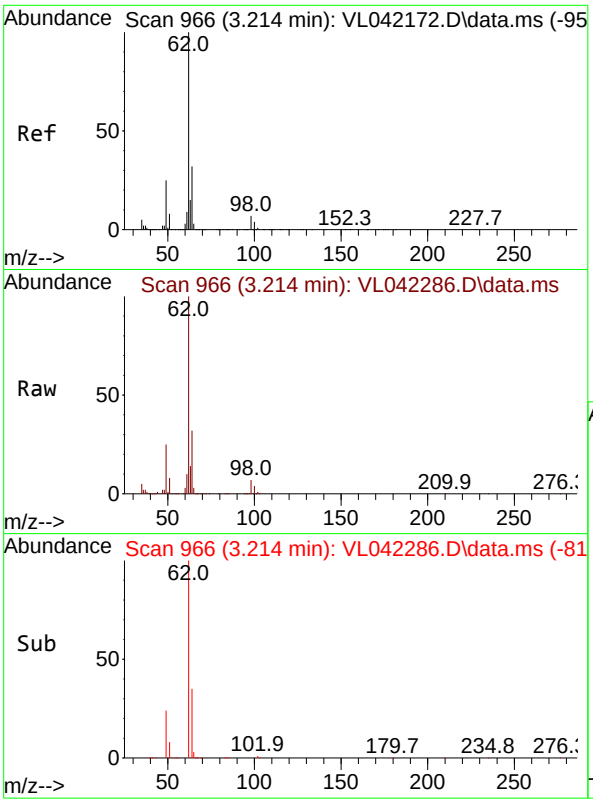



#36
Benzene
Concen: 10.802 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 78 Resp: 425324

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 21.9 | 19.1 | 28.7 |
| 50 | 20.3 | 16.6 | 24.8 |

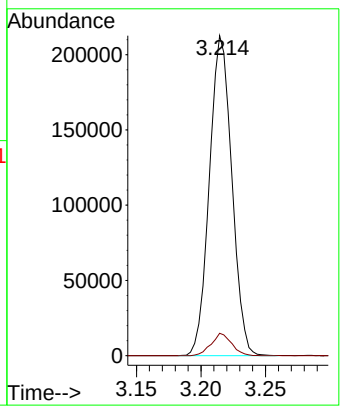





#37
1,2-Dichloroethane
Concen: 11.391 ppbv
RT: 3.214 min Scan# 9
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 62 Resp: 25679

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 6.3 | 5.4 | 8.2 |

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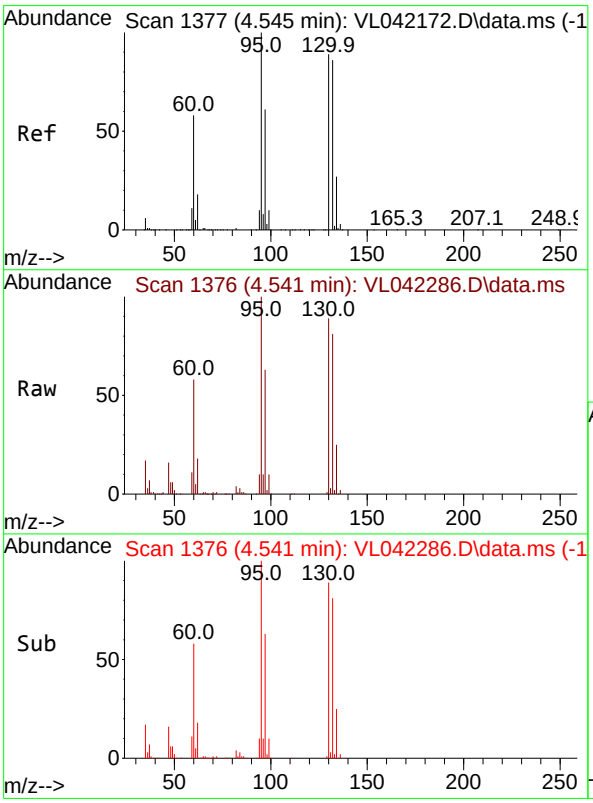
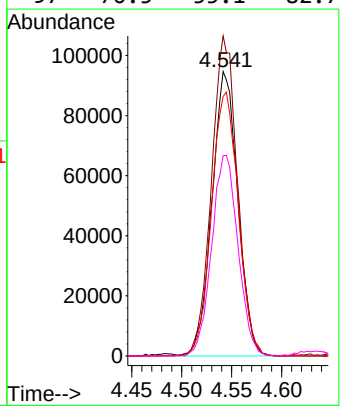
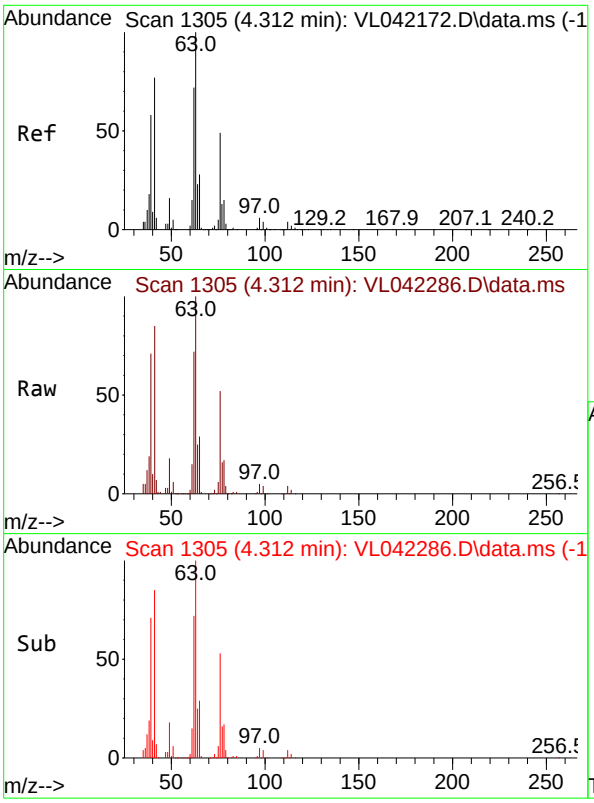



#38
Trichloroethene
Concen: 10.370 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. -0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:130 Resp: 170362

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 112.5 | 89.8 | 134.8 |
| 132 | 91.3 | 77.4 | 116.2 |
| 97 | 70.5 | 55.1 | 82.7 |

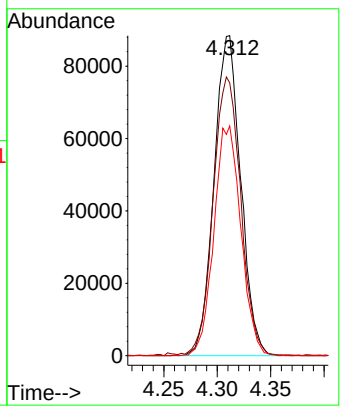





#39
1,2-Dichloropropane
Concen: 10.710 ppbv
RT: 4.312 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 63 Resp: 15358

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 85.0 | 61.7 | 92.5 |
| 62 | 71.8 | 57.6 | 86.4 |

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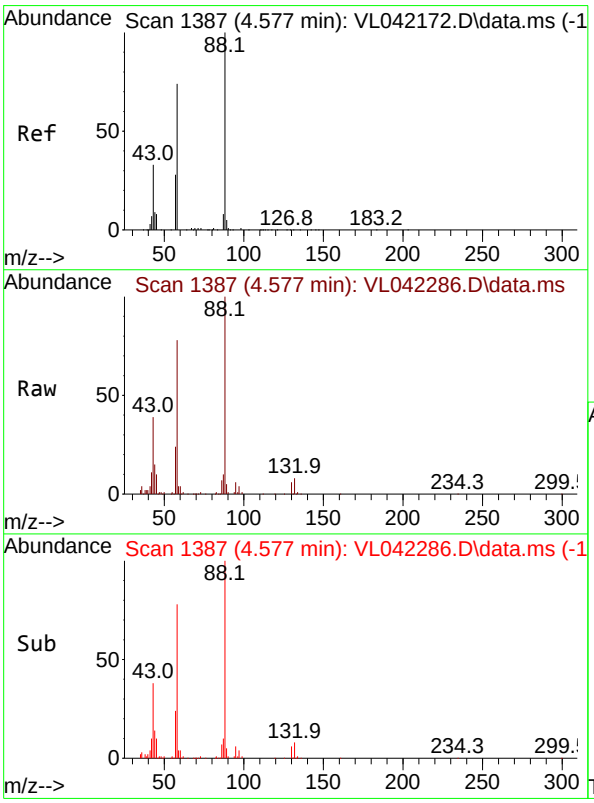
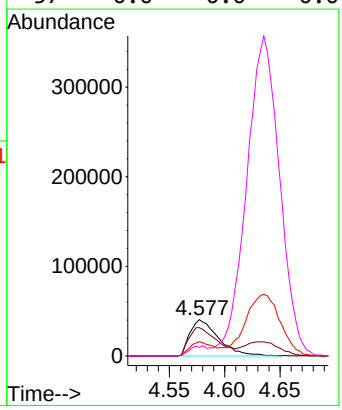
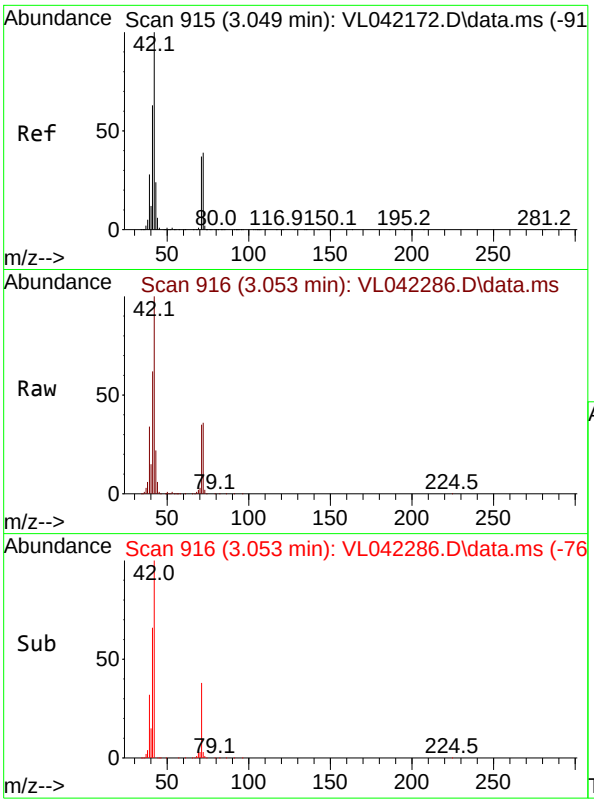



#40
1,4-Dioxane
Concen: 9.539 ppbv
RT: 4.577 min Scan# 1387
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 88 Resp: 72604

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 75.1 | 62.7 | 94.1 |
| 43 | 33.8 | 23.0 | 34.4 |
| 57 | 0.0 | 0.0 | 0.0 |

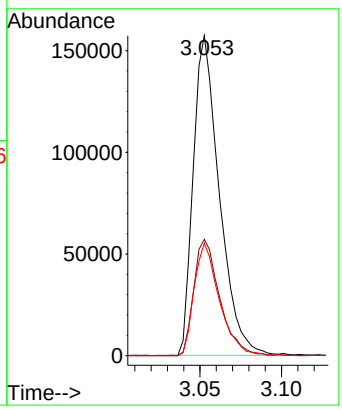





#41
Tetrahydrofuran
Concen: 10.556 ppbv
RT: 3.053 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 42 Resp: 17506

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 36.2 | 31.4 | 47.0 |
| 71 | 34.2 | 30.2 | 45.4 |

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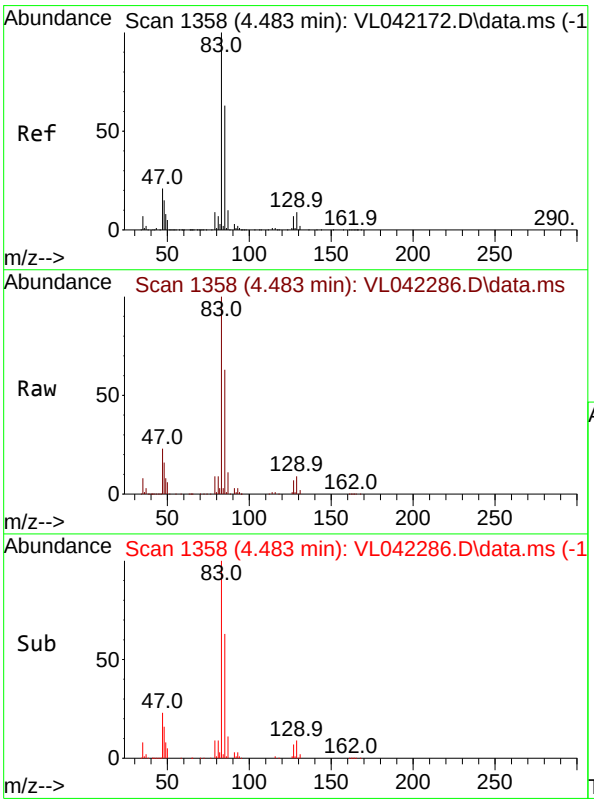
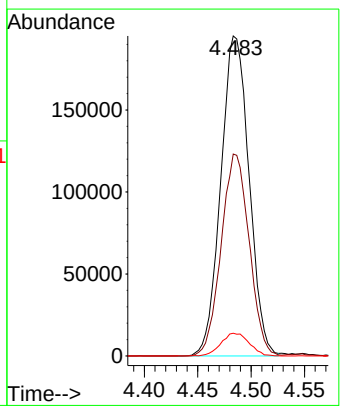
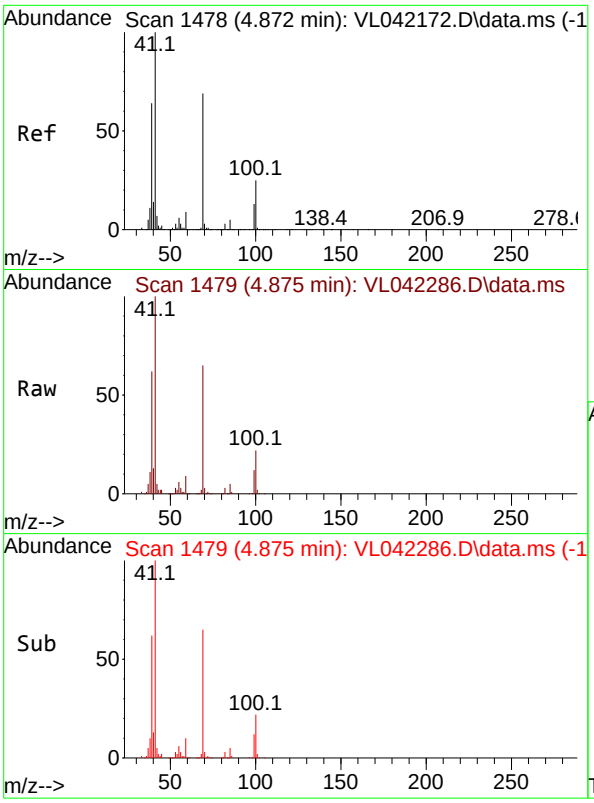



#42
Bromodichloromethane
Concen: 11.551 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 83 Resp: 358962

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.1 | 50.5 | 75.7 |
| 127 | 7.1 | 5.9 | 8.9 |

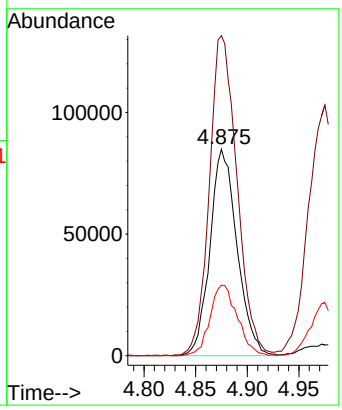





#43
Methyl Methacrylate
Concen: 9.297 ppbv
RT: 4.875 min Scan# 14
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 69 Resp: 15497

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 158.4 | 123.8 | 185.6 |
| 100 | 34.5 | 28.4 | 42.6 |

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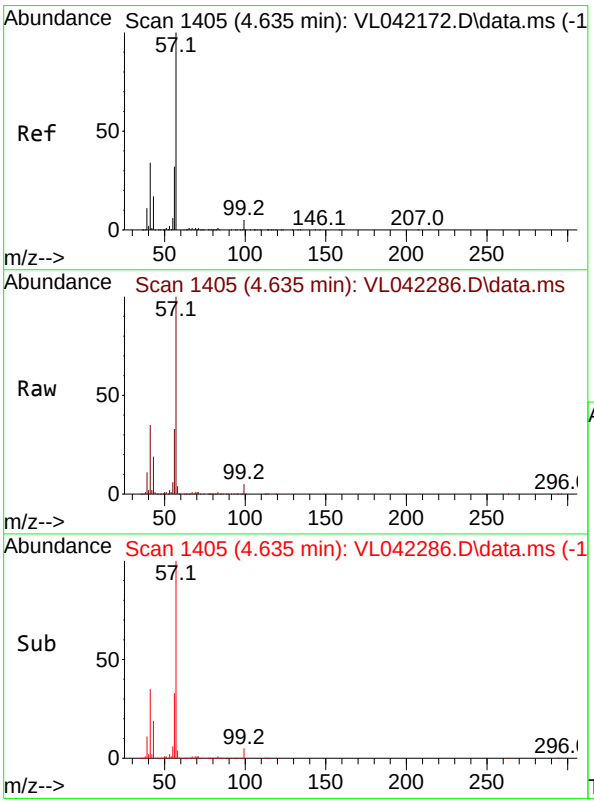
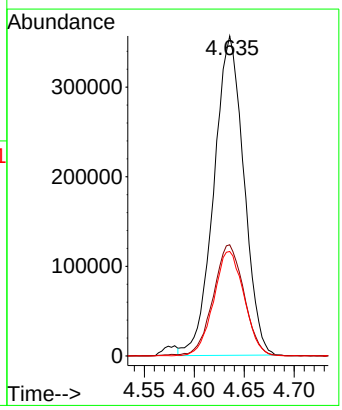
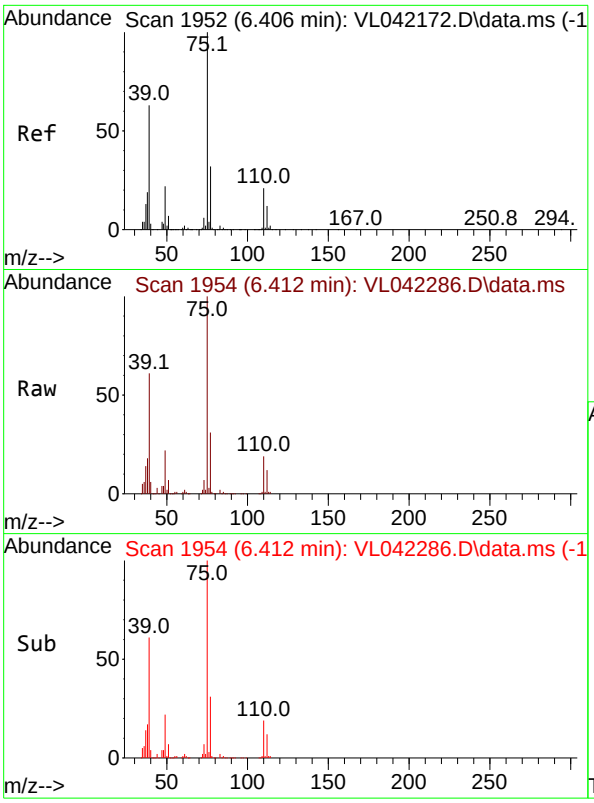



#44
2,2,4-Trimethylpentane
Concen: 11.157 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 57 Resp: 742388

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 36.2 | 26.8 | 40.2 |
| 56 | 33.5 | 25.6 | 38.4 |

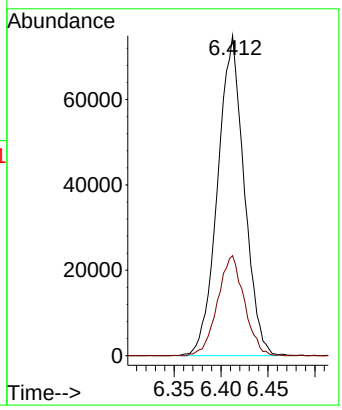





#45
t-1,3-Dichloropropene
Concen: 8.231 ppbv
RT: 6.412 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 75 Resp: 14720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.2 | 26.0 | 39.0 |

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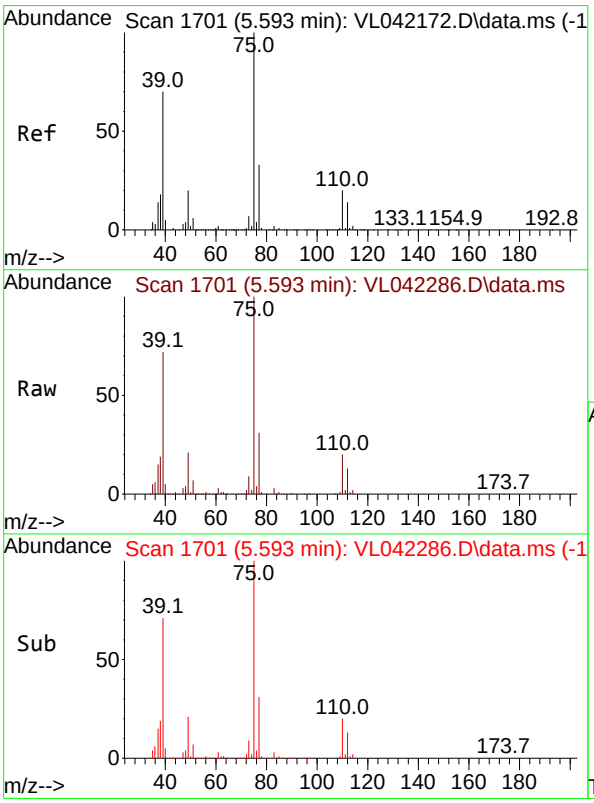
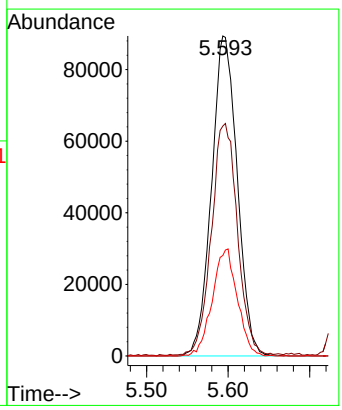
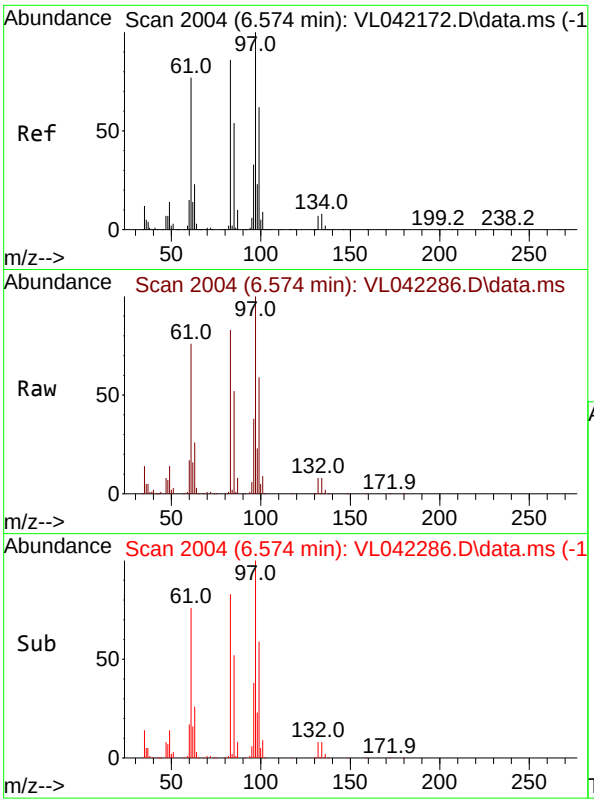



#46
cis-1,3-Dichloropropene
Concen: 8.932 ppbv
RT: 5.593 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 75 Resp: 195802

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 39 | 71.5 | 55.8 | 83.6 |
| 77 | 31.4 | 26.0 | 39.0 |

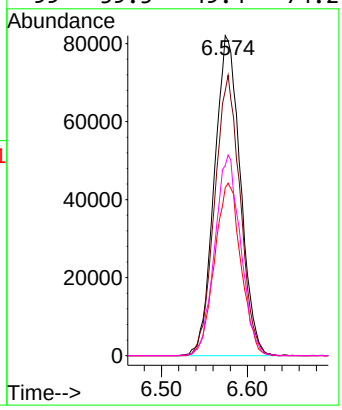





#47
1,1,2-Trichloroethane
Concen: 11.369 ppbv
RT: 6.574 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 97 Resp: 17234

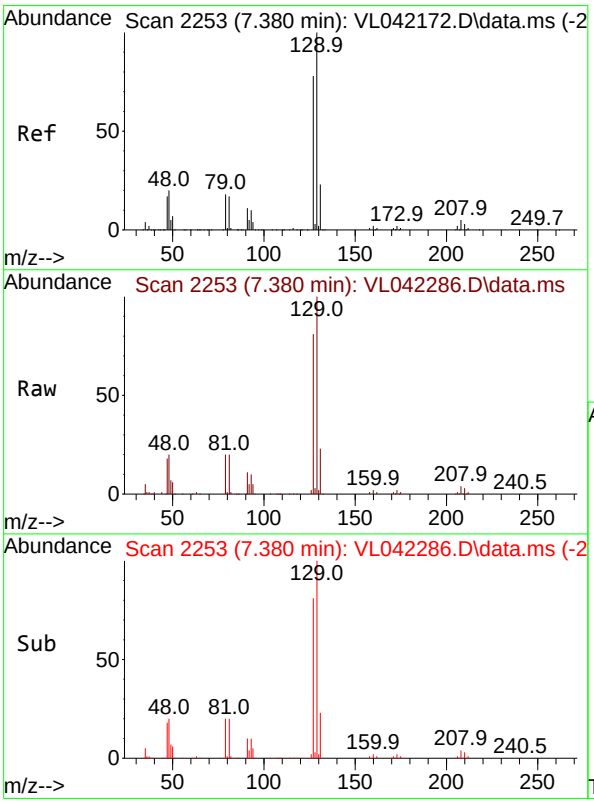
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 82.8 | 69.2 | 103.8 |
| 85 | 52.5 | 43.1 | 64.7 |
| 99 | 59.5 | 49.4 | 74.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
**APPROVED**

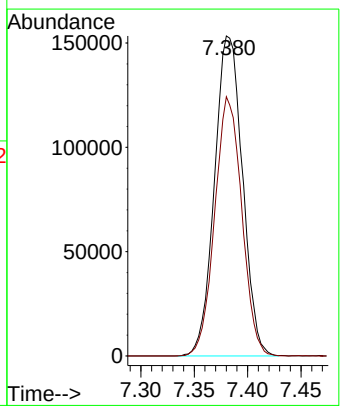
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

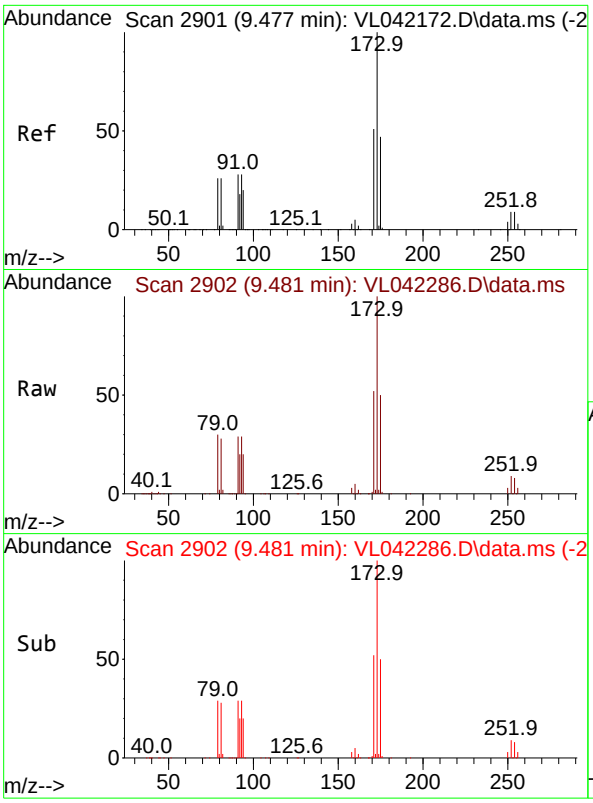



#48
Dibromochloromethane
Concen: 10.907 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:129 Resp: 280199

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.2 | 39.1 | 117.2 |

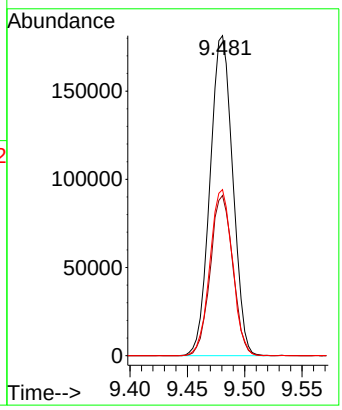





#49
Bromoform
Concen: 10.849 ppbv
RT: 9.481 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:173 Resp: 25022

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.5 | 38.6 | 57.8 |
| 171 | 51.5 | 41.8 | 62.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
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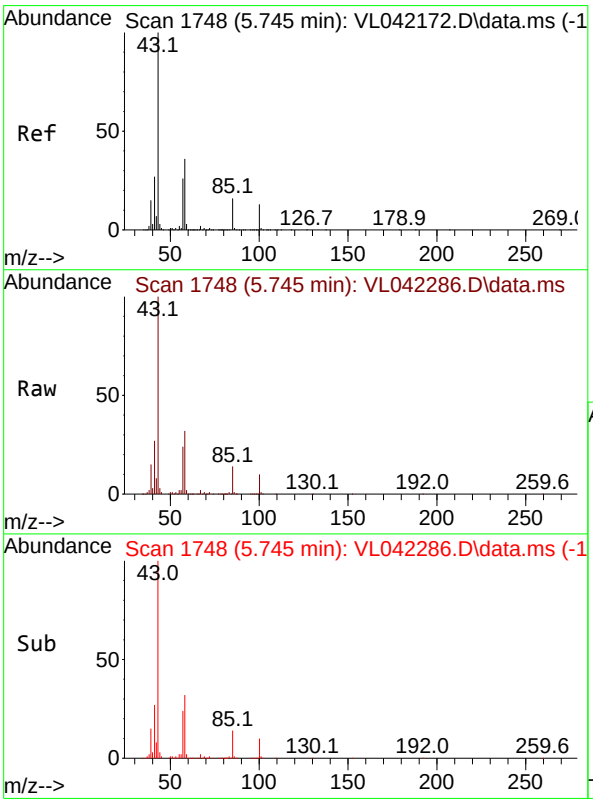
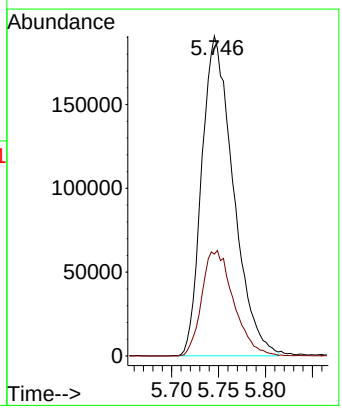
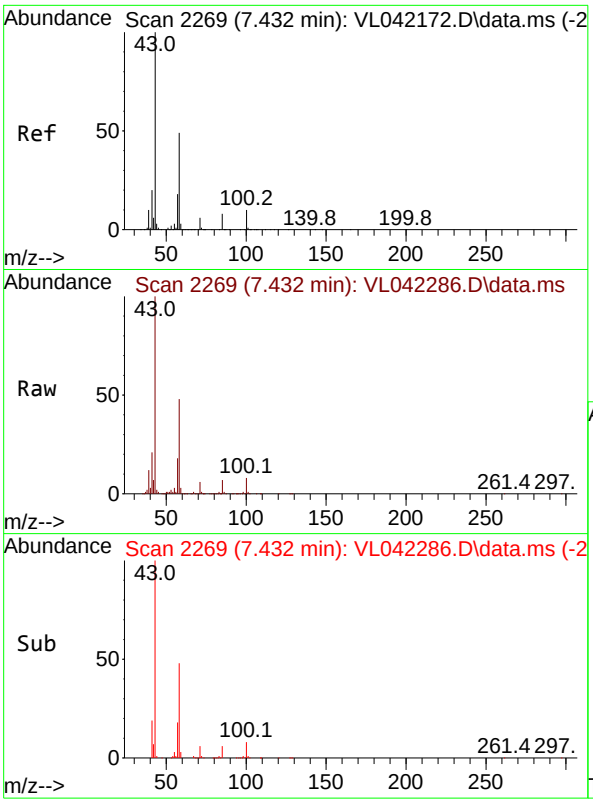



#50
4-Methyl-2-Pentanone
Concen: 9.760 ppbv
RT: 5.745 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 43 Resp: 445454

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 33.4 | 29.0 | 43.6 |






#51
2-Hexanone
Concen: 9.437 ppbv
RT: 7.432 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 43 Resp: 35370

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 45.8 | 39.7 | 59.5 |
| 98 | 0.9 | 0.1 | 0.1 |

**Instrument :**
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VSTDCCC010

**Manual Integrations**
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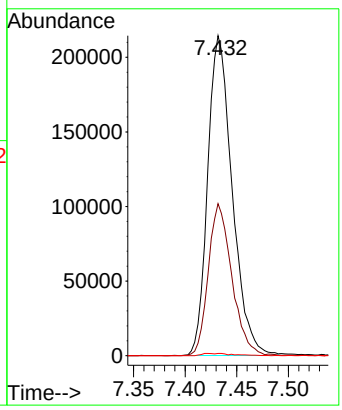
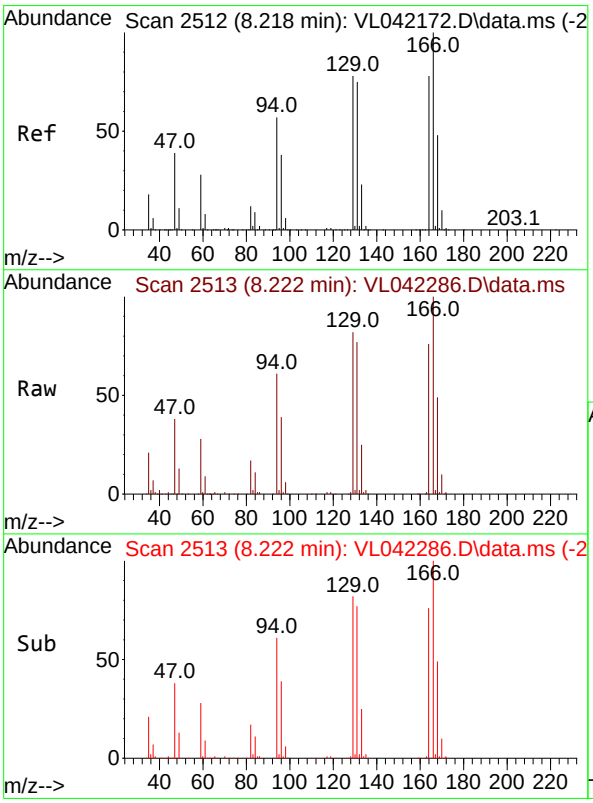
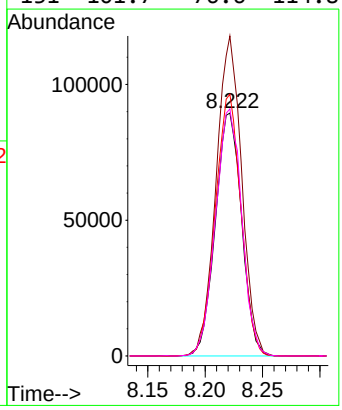


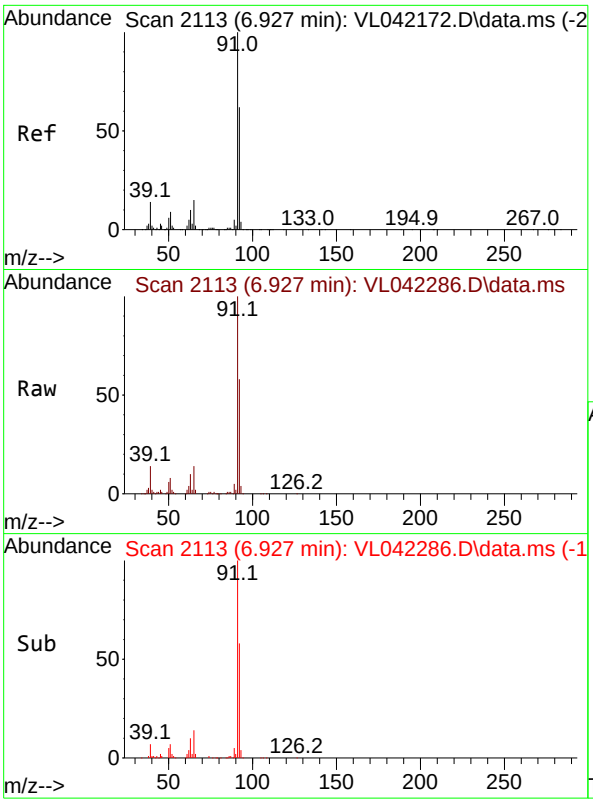




#52
Tetrachloroethene
Concen: 9.092 ppbv
RT: 8.222 min Scan# 2513
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:164 Resp: 141976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 131.7 | 102.5 | 153.7 |
| 129 | 107.7 | 79.8 | 119.8 |
| 131 | 101.7 | 76.6 | 114.8 |

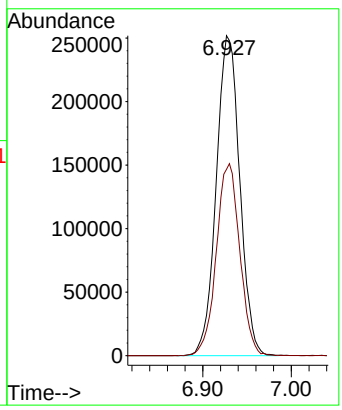





#53
Toluene
Concen: 9.961 ppbv
RT: 6.927 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 91 Resp: 46494

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 60.0 | 48.4 | 72.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
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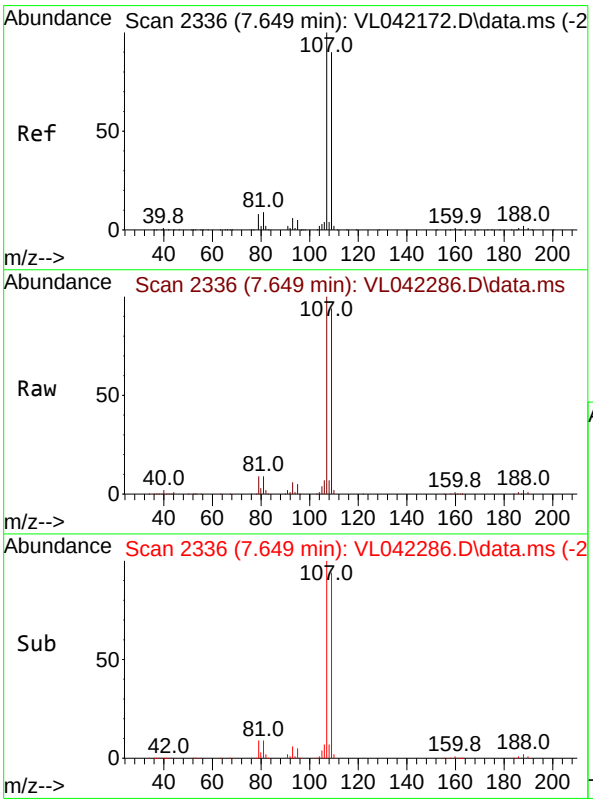
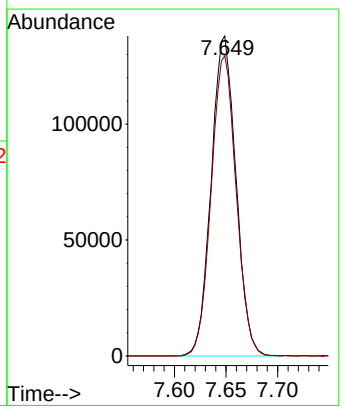
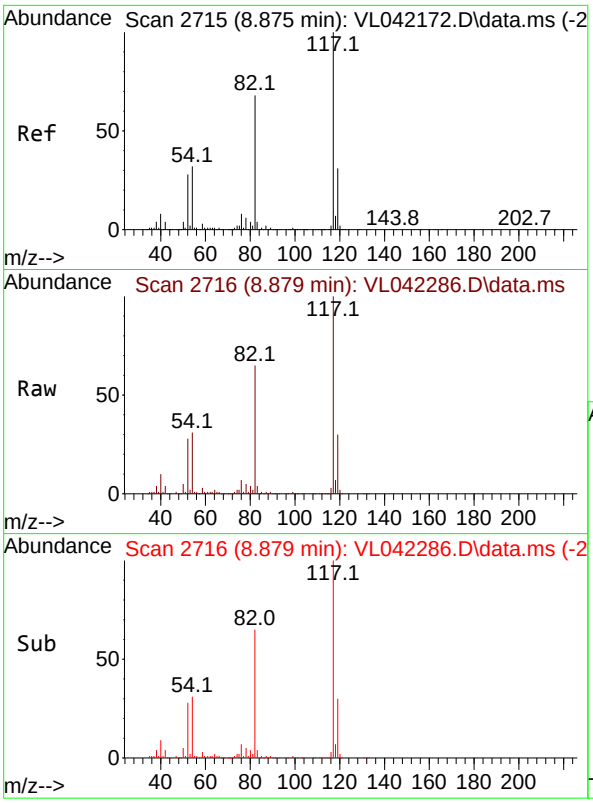



#54
1,2-Dibromoethane
Concen: 10.871 ppbv
RT: 7.649 min Scan# 2336
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:107 Resp: 229720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 93.8 | 72.2 | 108.4 |

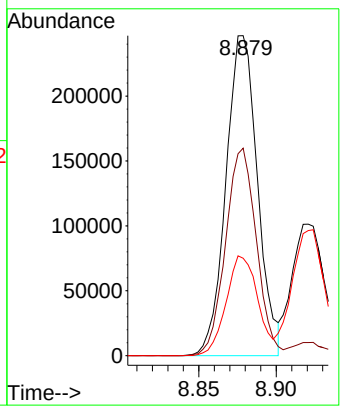





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:117 Resp: 350140

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 67.4 | 55.8 | 83.6 |
| 119 | 31.2 | 25.5 | 38.3 |




**Instrument :**
MSVOA_L
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VSTDCCC010

**Manual Integrations**
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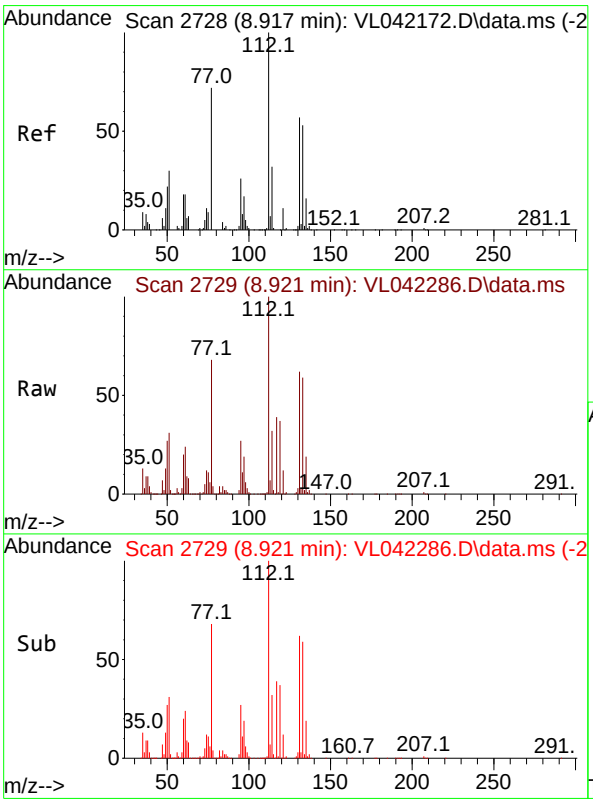
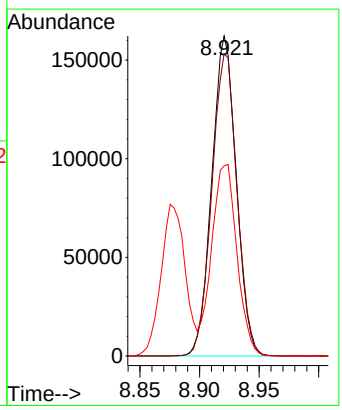
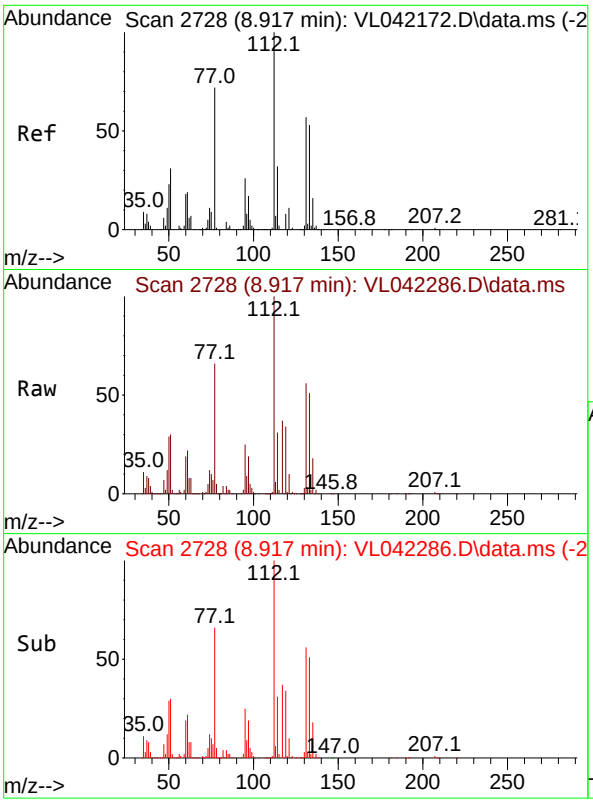



#56
1,1,1,2-Tetrachloroethane
Concen: 11.987 ppbv
RT: 8.921 min Scan# 2729
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:131 Resp: 231041

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 97.4 | 76.6 | 114.8 |
| 119 | 63.2 | 49.8 | 74.6 |

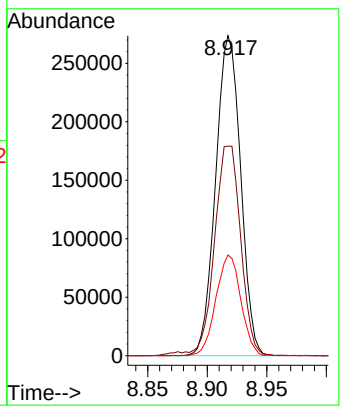





#57
Chlorobenzene
Concen: 12.021 ppbv
RT: 8.917 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:112 Resp: 39922

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 65.3 | 58.2 | 87.2 |
| 114 | 31.4 | 29.1 | 35.5 |

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VSTDCCC010

**Manual Integrations**
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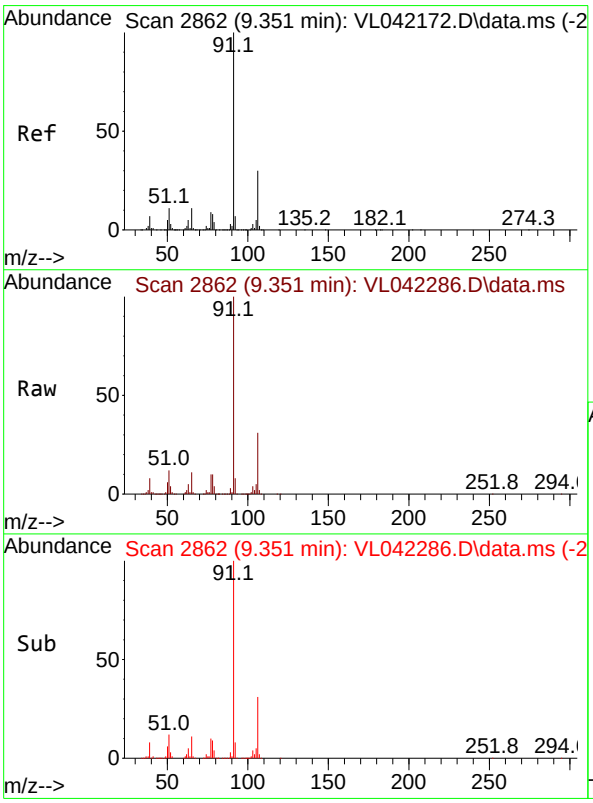
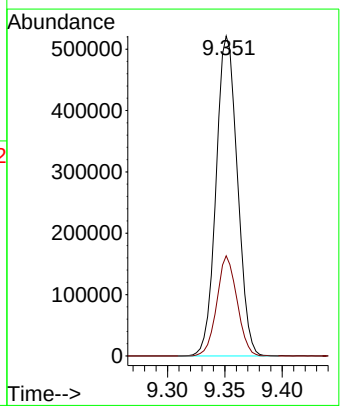
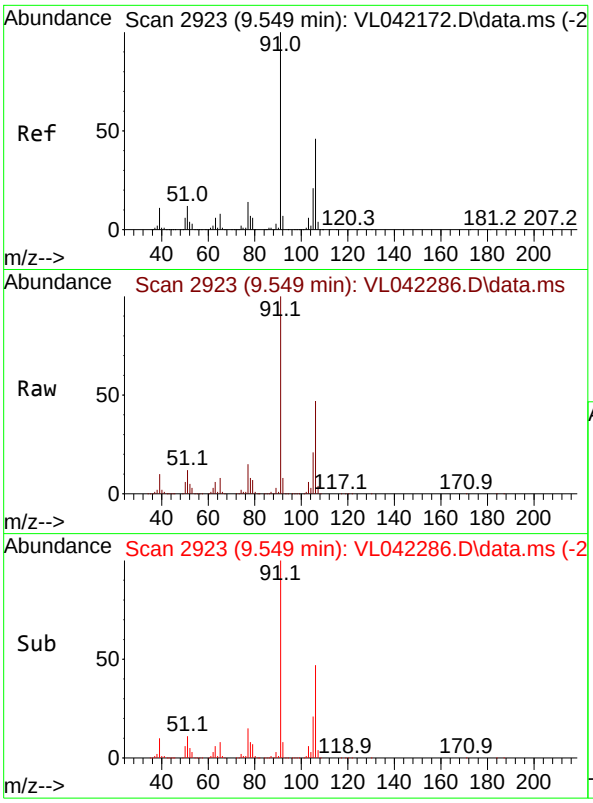



#58
Ethyl Benzene
Concen: 10.834 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 91 Resp: 673801

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.3 | 24.2 | 36.2 |






#59
m/p-Xylene
Concen: 23.379 ppbv m
RT: 9.549 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 91 Resp: 116106

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 46.5 | 36.4 | 54.6 |

**Instrument :**
MSVOA_L
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VSTDCCC010

**Manual Integrations**
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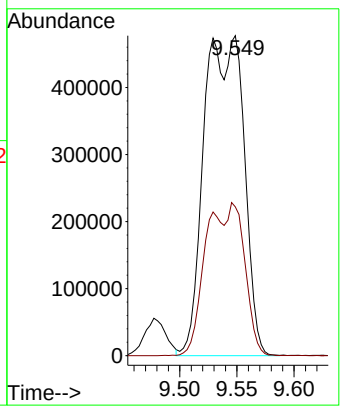
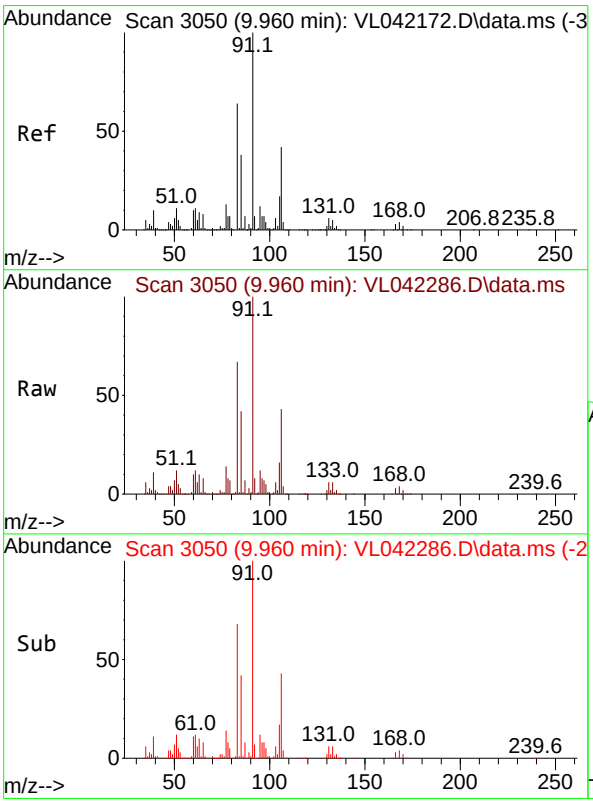
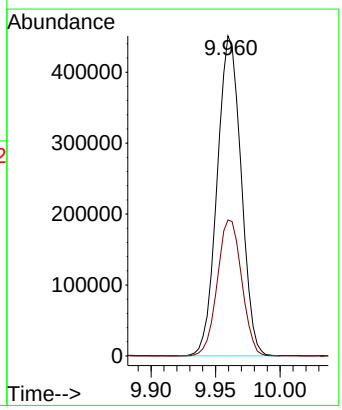


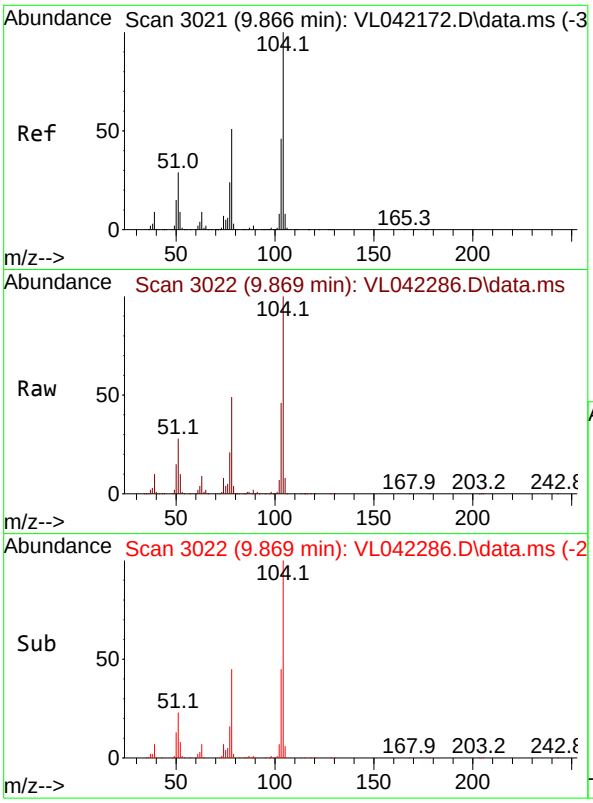




#60
o-Xylene
Concen: 11.671 ppbv
RT: 9.960 min Scan# 3050
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 91 Resp: 581045

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 43.4 | 20.8 | 62.5 |

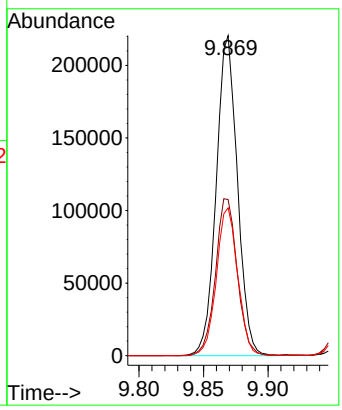





#61
Styrene
Concen: 10.212 ppbv
RT: 9.869 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:104 Resp: 25152

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 50.4 | 41.8 | 62.6 |
| 103 | 46.7 | 37.0 | 55.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
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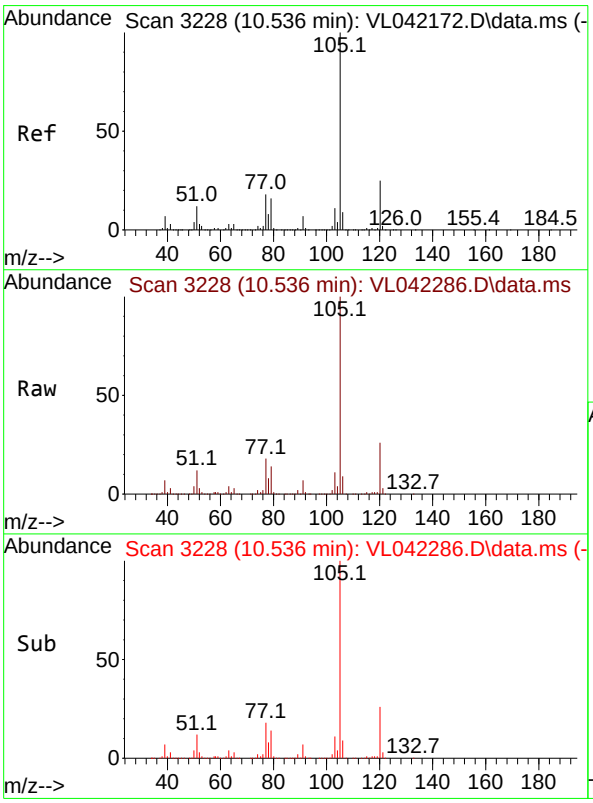
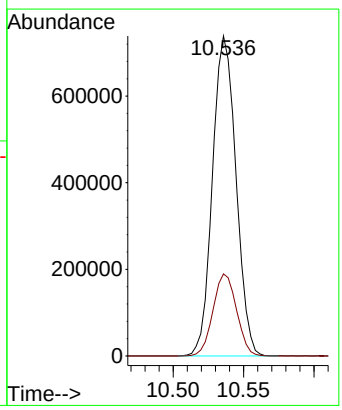
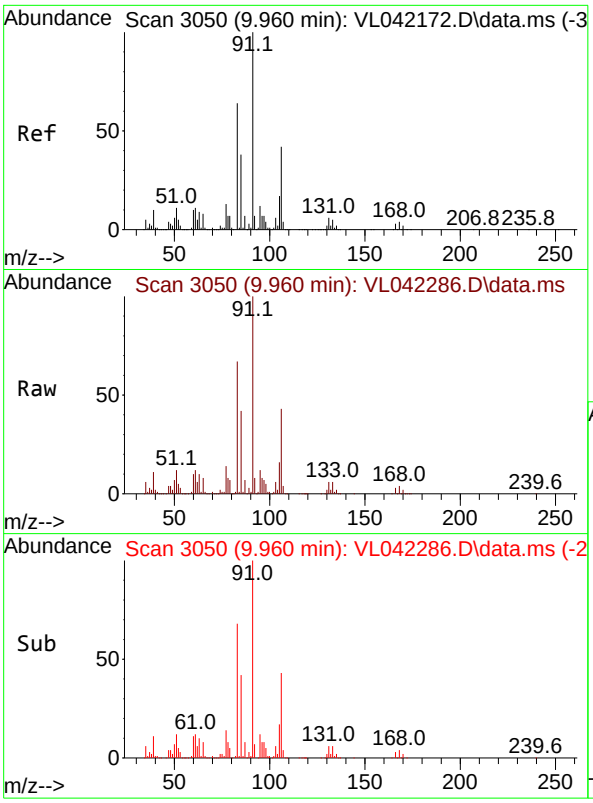



#62
Isopropylbenzene
Concen: 11.538 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:105 Resp: 859013

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.6 | 19.9 | 29.9 |






#63
1,1,2,2-Tetrachloroethane
Concen: 12.623 ppbv
RT: 9.960 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 83 Resp: 38184

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.4 | 4.8 | 14.4 |
| 85 | 63.7 | 32.5 | 97.5 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
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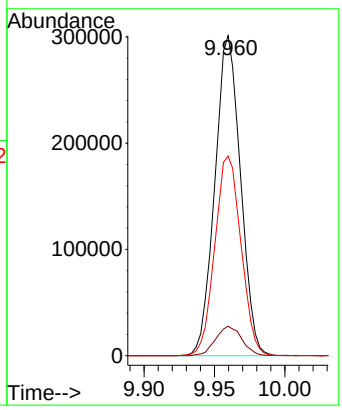
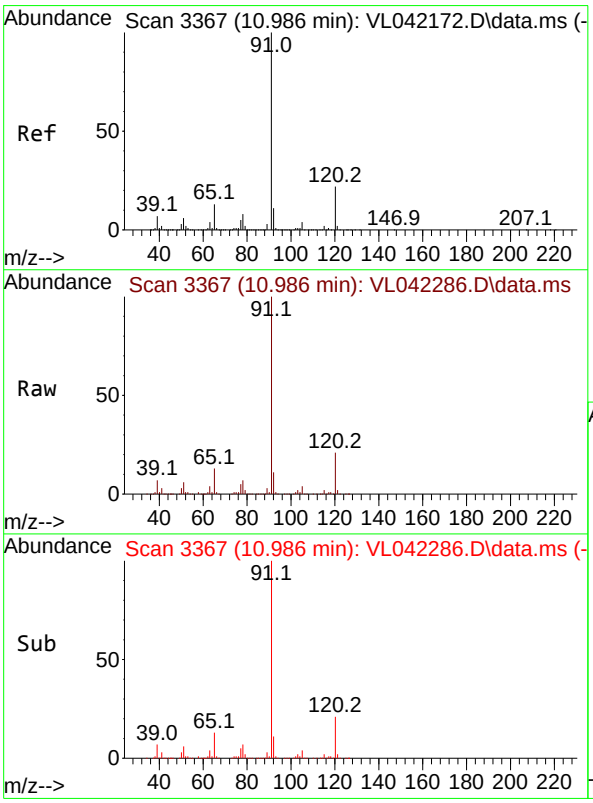
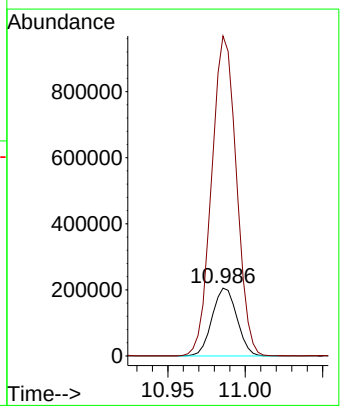


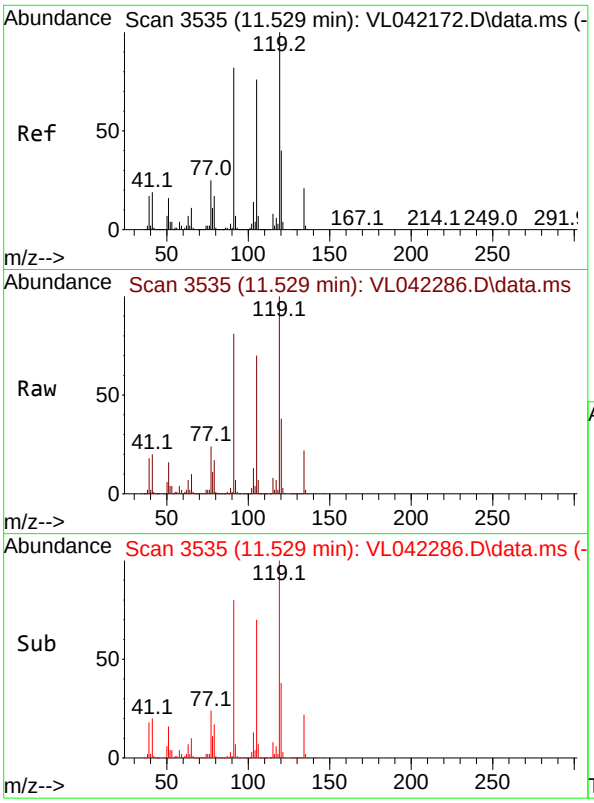




#64
n-propylbenzene
Concen: 11.925 ppbv
RT: 10.986 min Scan# 3367
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:120 Resp: 228532

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 472.2 | 376.9 | 565.3 |

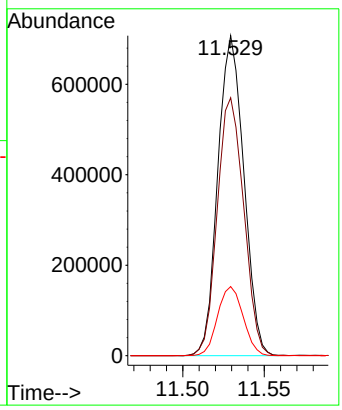





#65
tert-Butylbenzene
Concen: 11.393 ppbv
RT: 11.529 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:119 Resp: 78448

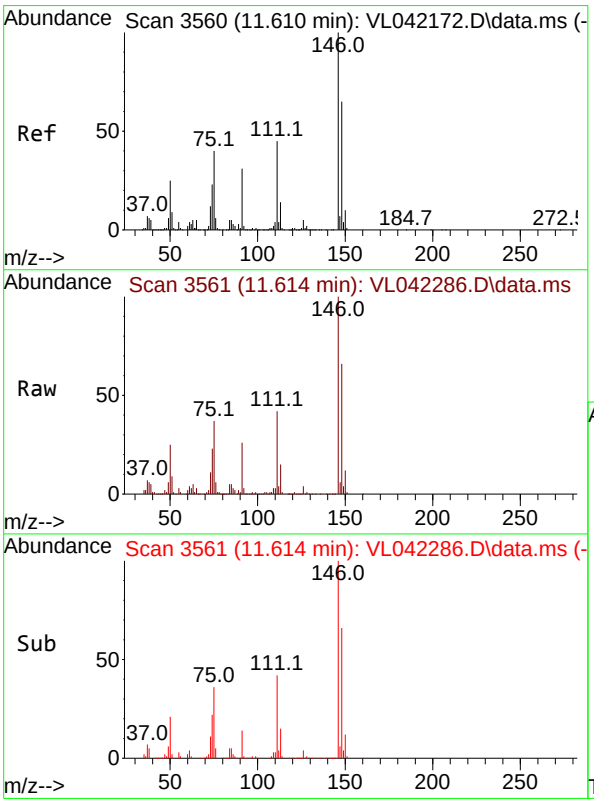
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 82.1 | 66.0 | 99.0 |
| 134 | 21.2 | 16.7 | 25.1 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
**APPROVED**

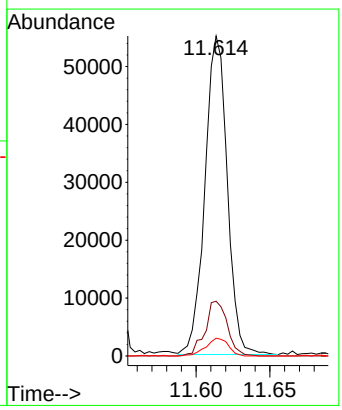
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

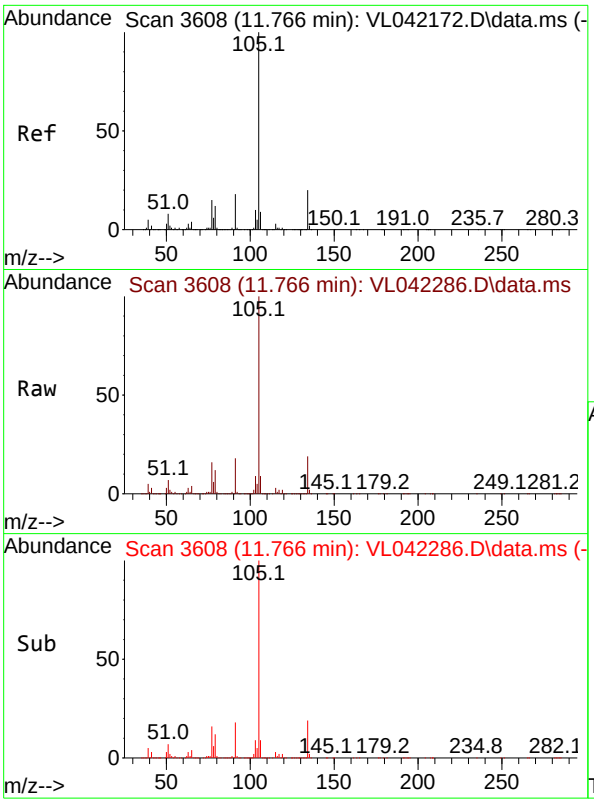



#66
Benzyl Chloride
Concen: 7.934 ppbv
RT: 11.614 min Scan# 3561
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 91 Resp: 57966

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 17.0 | 13.8 | 20.6 |
| 128 | 5.7 | 4.5 | 6.7 |






#67
sec-Butylbenzene
Concen: 11.787 ppbv
RT: 11.766 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:105 Resp: 112810

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.3 | 15.5 | 23.3 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
**APPROVED**

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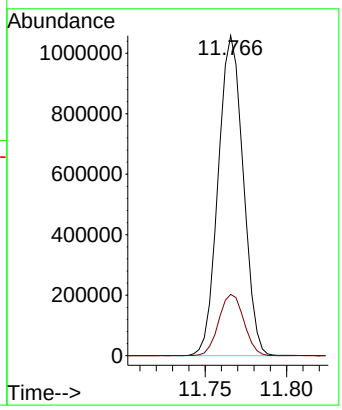
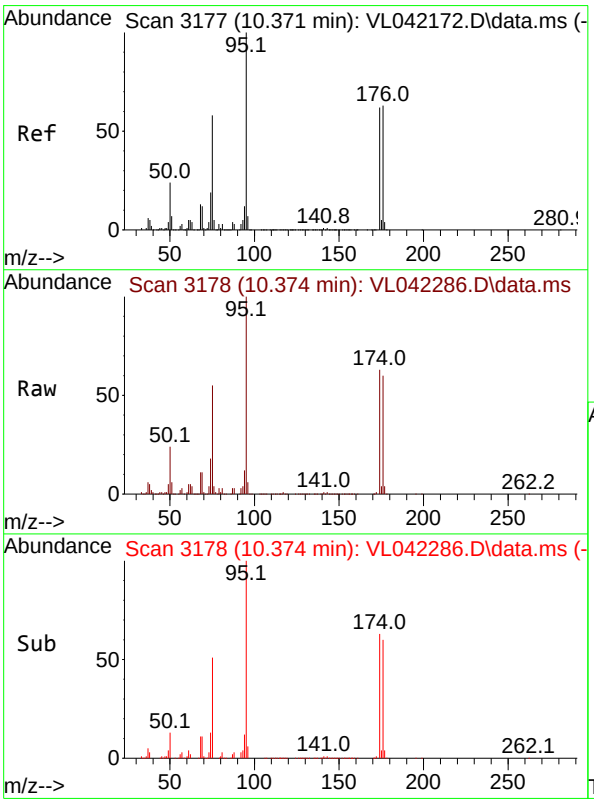
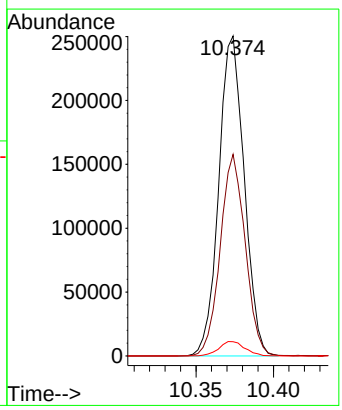


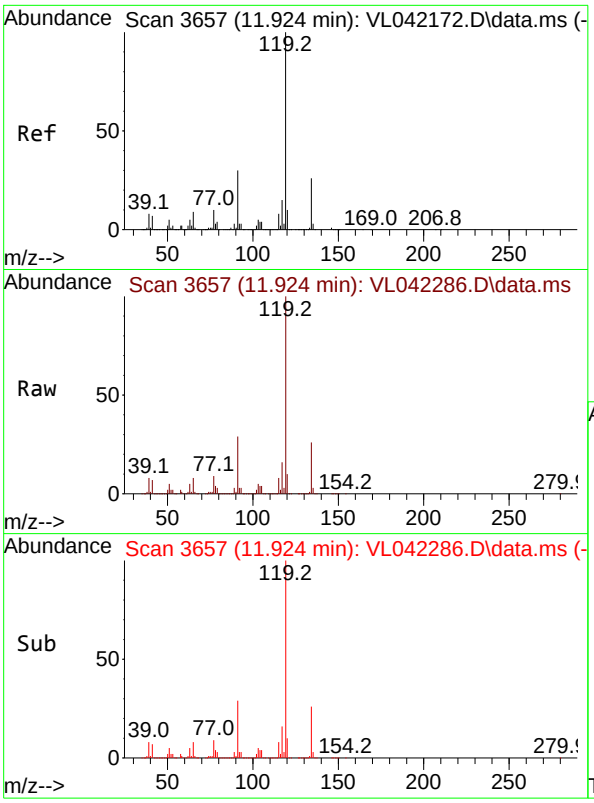




#68
1-Bromo-4-Fluorobenzene
Concen: 9.930 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 95 Resp: 285515

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 61.9 | 50.6 | 76.0 |
| 175 | 4.7 | 3.8 | 5.6 |

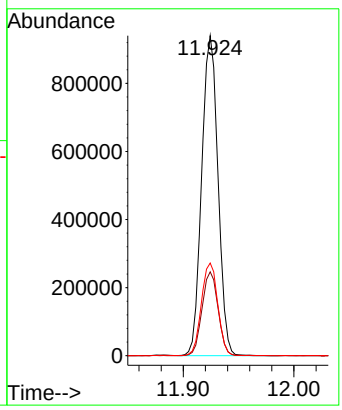





#69
p-Isopropyltoluene
Concen: 11.669 ppbv
RT: 11.924 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:119 Resp: 96162

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.8 | 20.4 | 30.6 |
| 91 | 29.2 | 23.7 | 35.5 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
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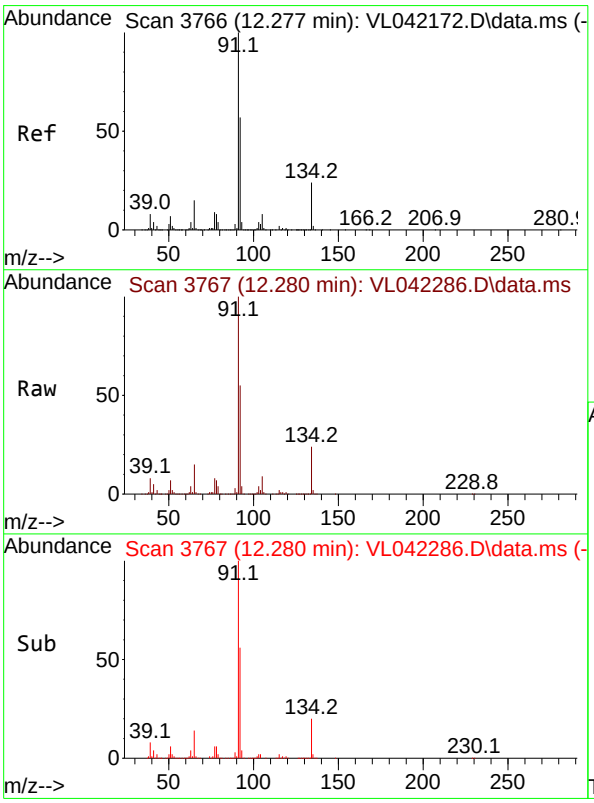
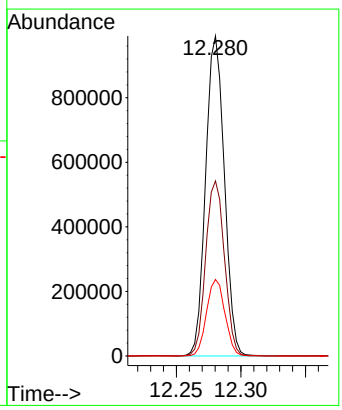
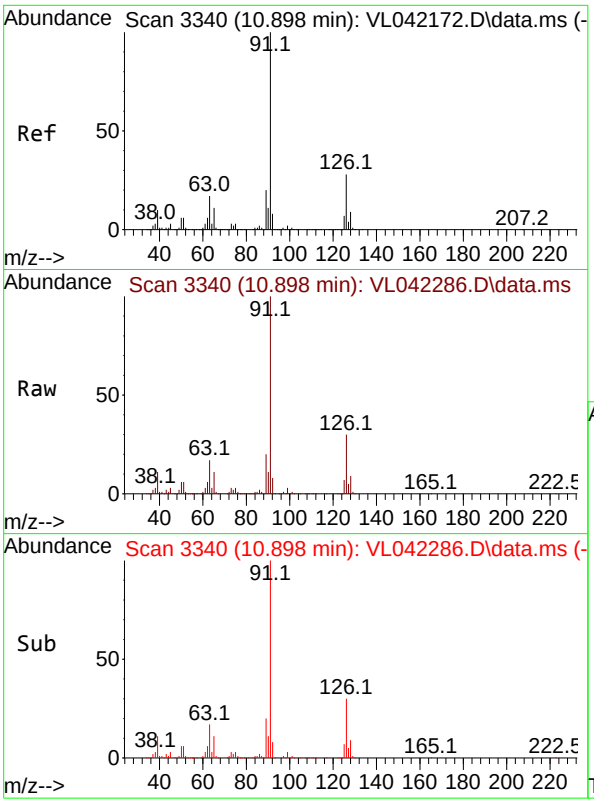



#70
n-Butylbenzene
Concen: 11.847 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 91 Resp: 998455

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 55.0 | 44.9 | 67.3 |
| 134 | 23.6 | 19.2 | 28.8 |

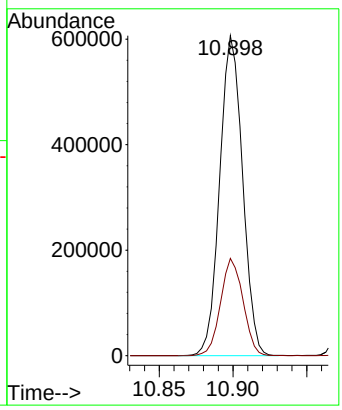





#71
2-Chlorotoluene
Concen: 11.323 ppbv
RT: 10.898 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 91 Resp: 65427

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 29.8 | 11.6 | 46.4 |




**Instrument :**
MSVOA_L
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VSTDCCC010

**Manual Integrations**
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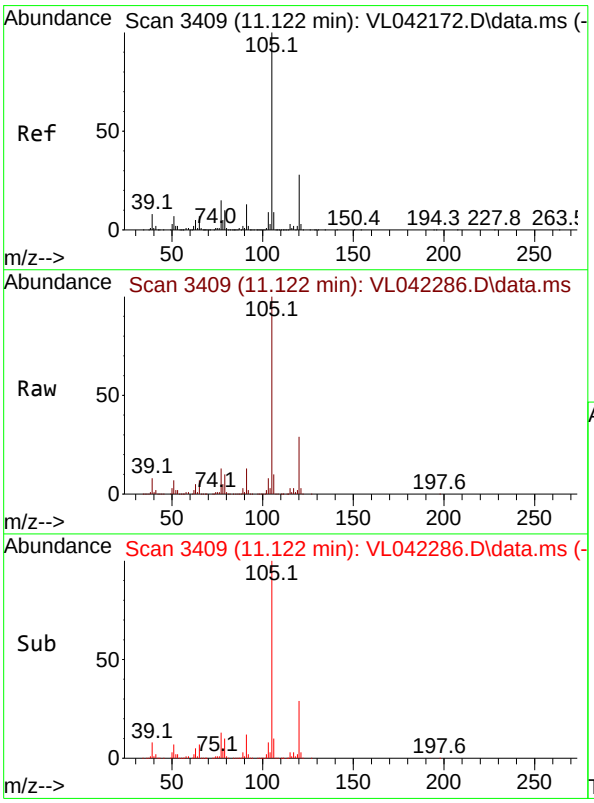
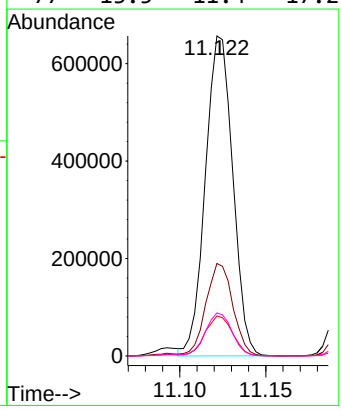
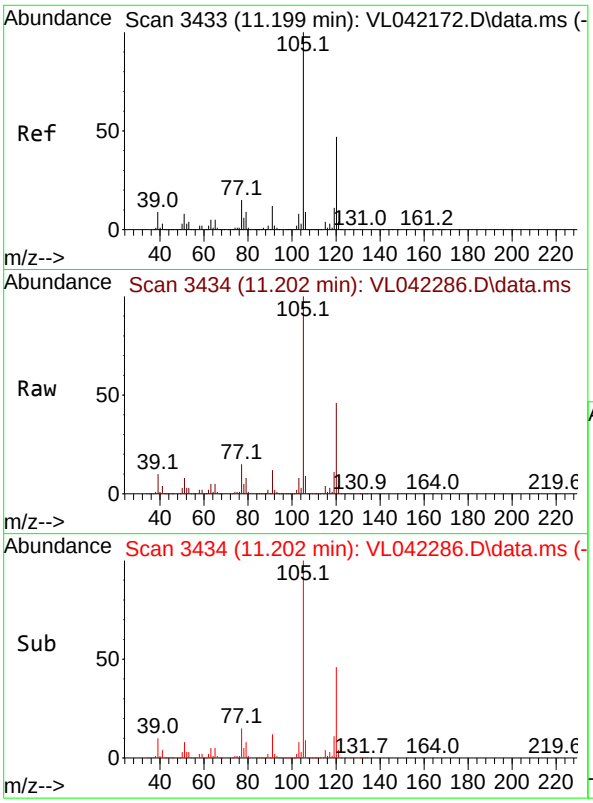



#72
4-Ethyltoluene
Concen: 11.753 ppbv
RT: 11.122 min Scan# 3409
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:105 Resp: 728517

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 29.1 | 23.4 | 35.0 |
| 91 | 12.8 | 10.3 | 15.5 |
| 77 | 13.5 | 11.4 | 17.2 |

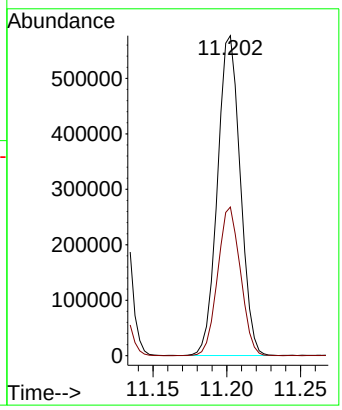





#73
1,3,5-Trimethylbenzene
Concen: 11.460 ppbv
RT: 11.202 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:105 Resp: 62041

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.4 | 37.4 | 56.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
**APPROVED**

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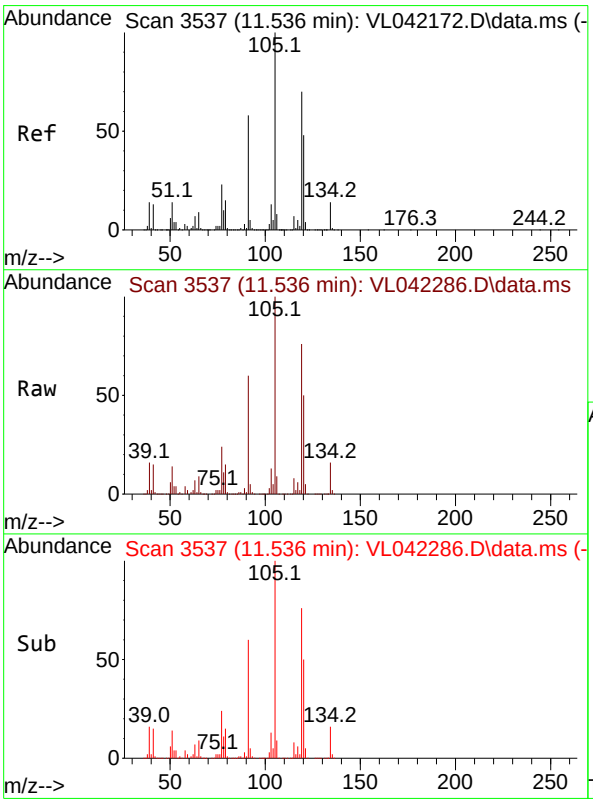
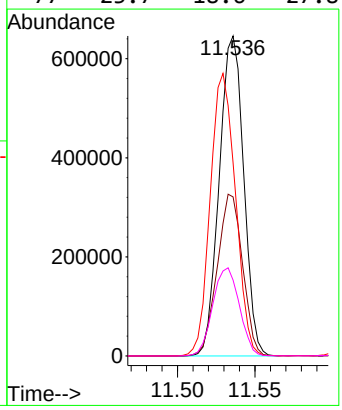
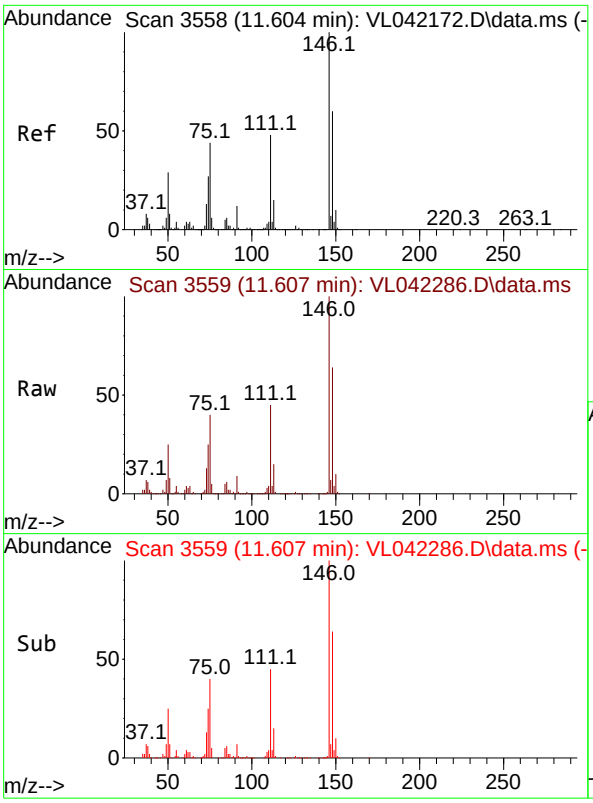



#74
1,2,4-Trimethylbenzene
Concen: 11.371 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:105 Resp: 709204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 49.7 | 38.6 | 58.0 |
| 91 | 60.3 | 46.2 | 69.2 |
| 77 | 23.7 | 18.6 | 27.8 |

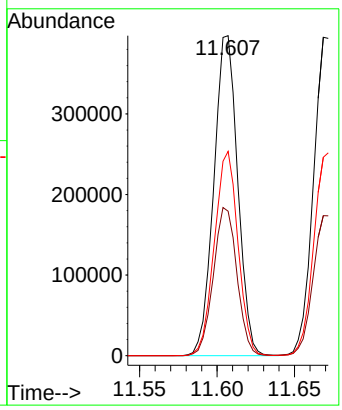





#75
1,3-Dichlorobenzene
Concen: 12.462 ppbv
RT: 11.607 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:146 Resp: 42630

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 45.6 | 23.8 | 71.2 |
| 148 | 63.0 | 31.9 | 95.9 |




**Instrument :**
MSVOA_L
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VSTDCCC010

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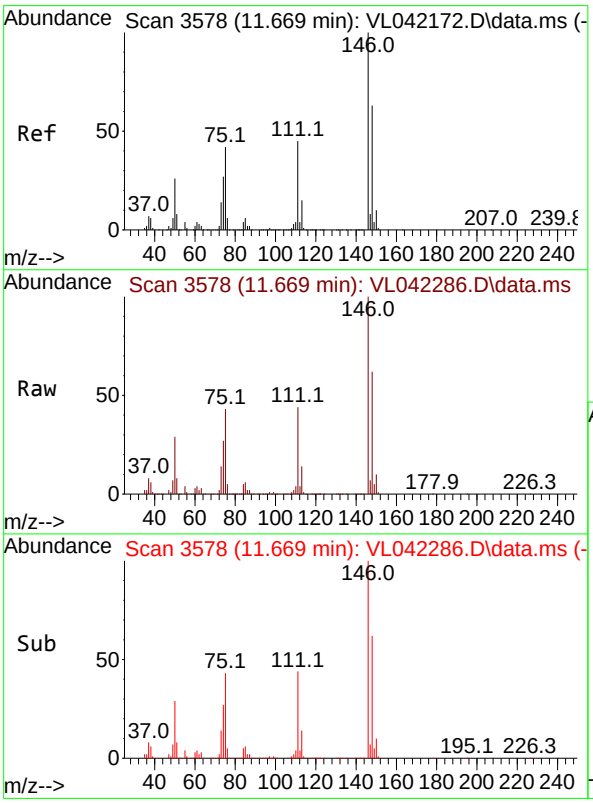
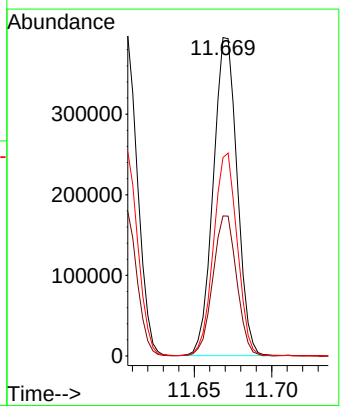
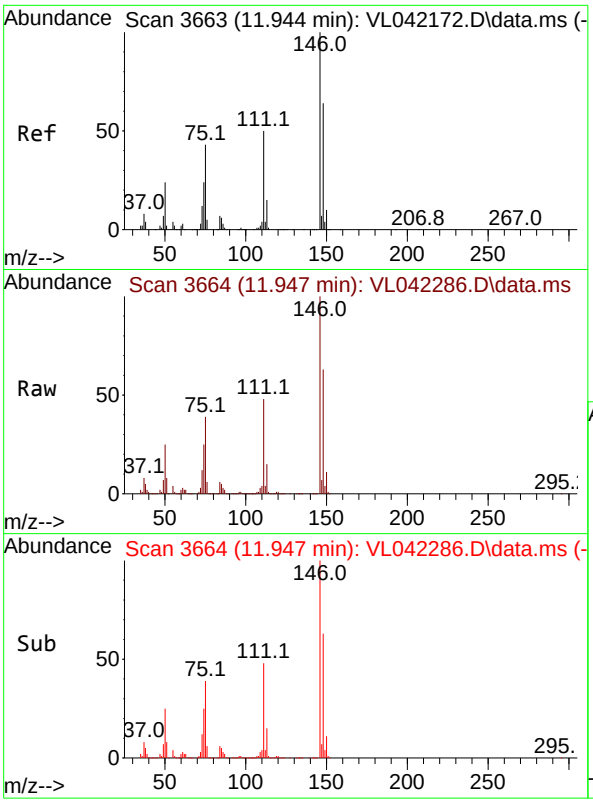



#76
1,4-Dichlorobenzene
Concen: 12.442 ppbv
RT: 11.669 min Scan# 3578
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:146 Resp: 423561

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 44.2 | 23.0 | 69.0 |
| 148 | 63.4 | 31.9 | 95.7 |

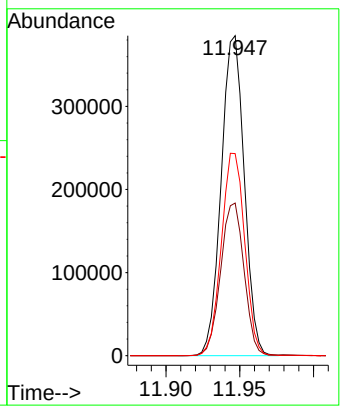





#77
1,2-Dichlorobenzene
Concen: 12.589 ppbv
RT: 11.947 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:146 Resp: 41928

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 48.5 | 24.8 | 74.3 |
| 148 | 64.3 | 31.6 | 94.8 |

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**ClientSampleId :**
VSTDCCC010

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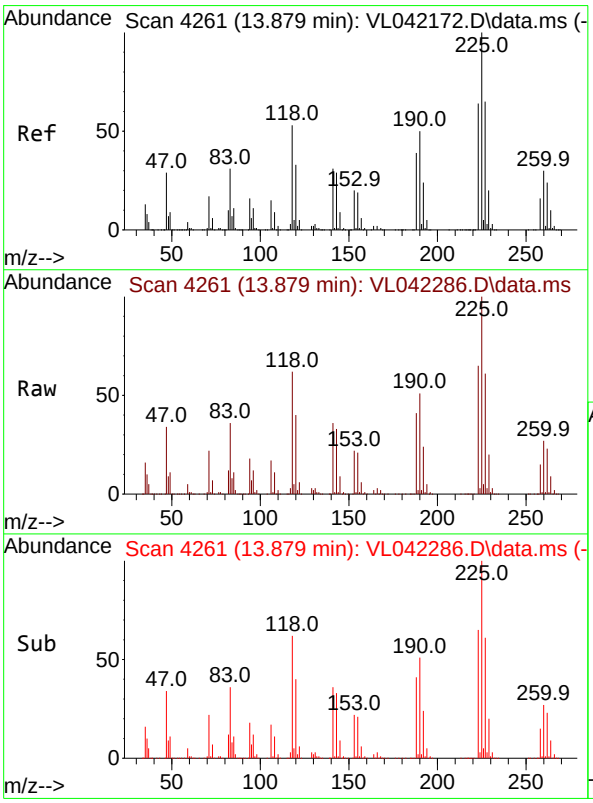
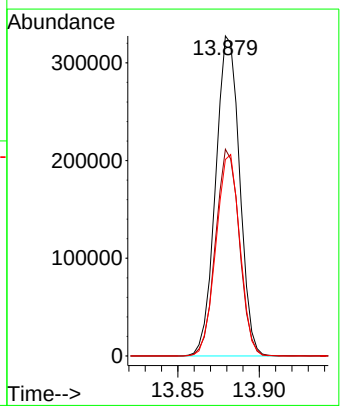
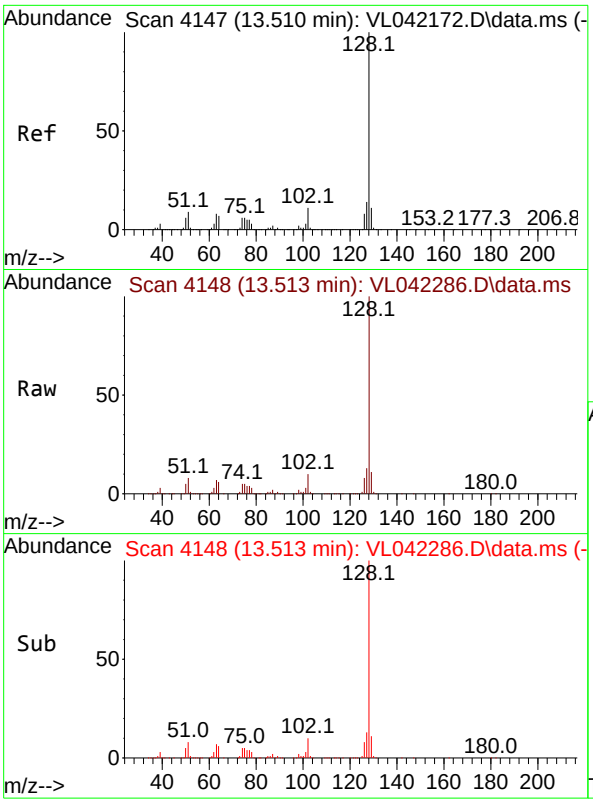



#78
Hexachloro-1,3-Butadiene
Concen: 9.864 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:225 Resp: 334414

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.9 | 50.6 | 76.0 |
| 227 | 62.8 | 51.2 | 76.8 |






#79
Naphthalene
Concen: 11.851 ppbv
RT: 13.513 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:128 Resp: 80845

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.9 | 10.8 | 16.2 |
| 129 | 11.0 | 9.0 | 13.4 |

**Instrument :**
MSVOA_L
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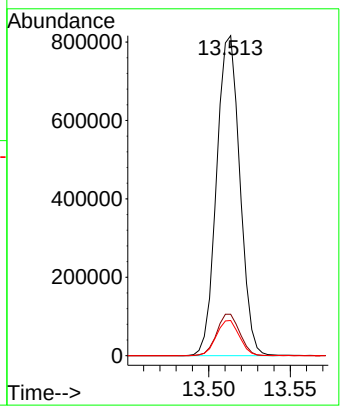
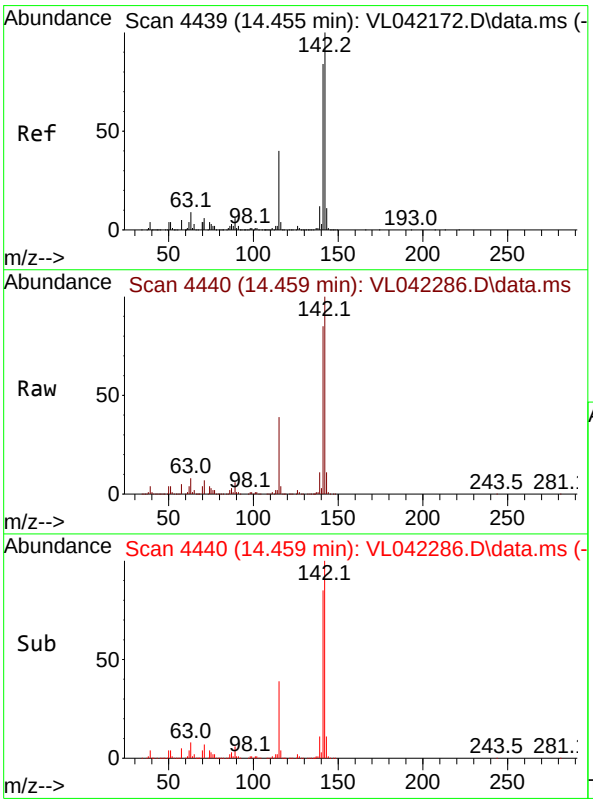
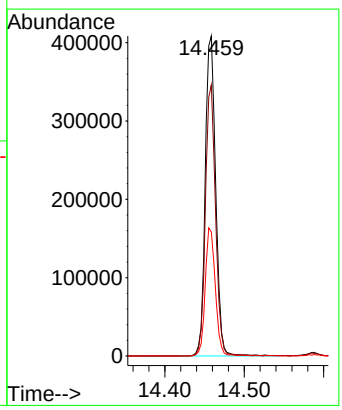


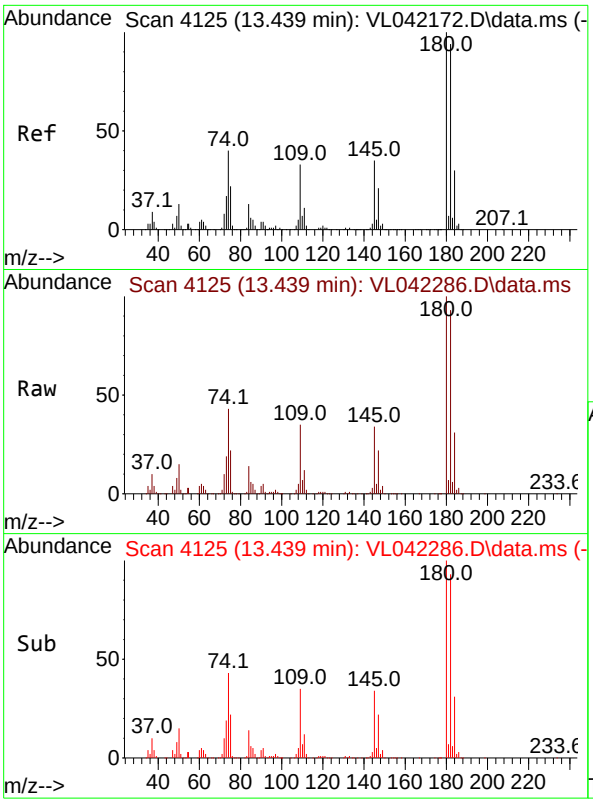




#80
Naphthalene,2-methyl-
Concen: 11.158 ppbv
RT: 14.459 min Scan# 4440
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:142 Resp: 373298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 82.9 | 66.3 | 99.5 |
| 115 | 39.2 | 31.6 | 47.4 |

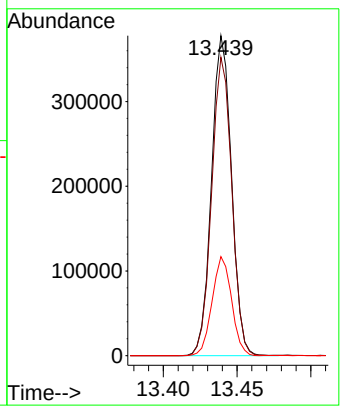





#81
1,2,4-Trichlorobenzene
Concen: 11.305 ppbv
RT: 13.439 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:180 Resp: 35574

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.9 | 75.1 | 112.7 |
| 184 | 30.3 | 24.4 | 36.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042286.D
Acq On : 09 Apr 2025 10:20
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**LabSampleId :**
VSTDCCC010

Quant Time: Apr 10 01:39:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Bromochloromethane | 1.000 | 1.000 | 0.0 | 83 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 1.476 | 1.444 | 2.2 | 86 | 0.00 |
| 3 | | Chlorodifluoromethane | 1.508 | 1.557 | -3.2 | 89 | 0.00 |
| 4 | | Chloromethane | 0.603 | 0.607 | -0.7 | 88 | 0.00 |
| 5 | T | Vinyl Chloride | 0.639 | 0.560 | 12.4 | 85 | 0.00 |
| 6 | T | Bromomethane | 0.273 | 0.250 | 8.4 | 81 | 0.00 |
| 7 | | Chloroethane | 0.242 | 0.225 | 7.0 | 82 | 0.00 |
| 8 | T | Dichlorotetrafluoroethane | 1.257 | 1.243 | 1.1 | 85 | 0.00 |
| 9 | T | Propene | 0.691 | 0.593 | 14.2 | 75 | 0.00 |
| 10 | T | Heptane | 1.839 | 1.800 | 2.1 | 84 | 0.00 |
| 11 | T | Trichlorofluoromethane | 1.437 | 1.405 | 2.2 | 87 | 0.00 |
| 12 | T | 1,1,2-Trichlorotrifluoroeth | 1.181 | 1.149 | 2.7 | 85 | 0.00 |
| 13 | | Ethanol | 0.065 | 0.030# | 53.8# | 86 | 0.00 |
| 14 | T | Bromoethene | 0.452 | 0.393 | 13.1 | 78 | 0.00 |
| 15 | T | Acetone | 1.399 | 1.260 | 9.9 | 94 | 0.00 |
| 16 | T | 1,3-Butadiene | 0.683 | 0.610 | 10.7 | 89 | 0.00 |
| 17 | | tert-Butyl alcohol | 1.742 | 1.415 | 18.8 | 73 | 0.00 |
| 18 | T | 1,1-Dichloroethene | 0.552 | 0.499 | 9.6 | 82 | 0.00 |
| 19 | T | Isopropyl Alcohol | 0.789 | 0.664 | 15.8 | 79 | 0.00 |
| 20 | T | Methylene Chloride | 0.521 | 0.441 | 15.4 | 84 | 0.00 |
| 21 | T | Allyl Chloride | 0.986 | 0.899 | 8.8 | 83 | 0.00 |
| 22 | T | trans-1,2-Dichloroethene | 0.638 | 0.568 | 11.0 | 80 | 0.00 |
| 23 | T | Vinyl Acetate | 0.605 | 0.470 | 22.3 | 79 | 0.00 |
| 24 | T | 1,1-Dichloroethane | 1.183 | 1.159 | 2.0 | 86 | 0.00 |
| 25 | T | Ethyl Acetate | 3.630 | 3.644 | -0.4 | 88 | 0.00 |
| 26 | T | Hexane | 1.402 | 1.381 | 1.5 | 86 | 0.00 |
| 27 | T | Carbon Disulfide | 1.503 | 1.391 | 7.5 | 81 | 0.00 |
| 28 | T | Methyl tert-Butyl Ether | 0.873 | 0.705 | 19.2 | 71 | 0.00 |
| 29 | T | Chloroform | 2.052 | 2.190 | -6.7 | 94 | 0.00 |
| 30 | T | Cyclohexane | 1.217 | 1.095 | 10.0 | 78 | 0.00 |
| 31 | T | cis-1,2-Dichloroethene | 1.423 | 1.297 | 8.9 | 79 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 2.349 | 2.135 | 9.1 | 86 | 0.00 |
| 33 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 73 | 0.00 |
| 34 | T | 2-Butanone | 0.725 | 0.789 | -8.8 | 86 | 0.00 |
| 35 | T | Carbon Tetrachloride | 0.781 | 0.879 | -12.5 | 91 | 0.00 |
| 36 | T | Benzene | 0.991 | 1.071 | -8.1 | 84 | 0.00 |
| 37 | T | 1,2-Dichloroethane | 0.568 | 0.647 | -13.9 | 88 | 0.00 |
| 38 | T | Trichloroethene | 0.414 | 0.429 | -3.6 | 83 | 0.00 |
| 39 | T | 1,2-Dichloropropane | 0.361 | 0.387 | -7.2 | 84 | 0.00 |
| 40 | T | 1,4-Dioxane | 0.192 | 0.183 | 4.7 | 79 | 0.00 |
| 41 | T | Tetrahydrofuran | 0.418 | 0.441 | -5.5 | 81 | 0.00 |
| 42 | T | Bromodichloromethane | 0.782 | 0.904 | -15.6 | 86 | 0.00 |
| 43 | | Methyl Methacrylate | 0.420 | 0.390 | 7.1 | 71 | 0.00 |
| 44 | T | 2,2,4-Trimethylpentane | 1.675 | 1.869 | -11.6 | 85 | 0.00 |
| 45 | T | t-1,3-Dichloropropene | 0.450 | 0.371 | 17.6 | 62 | 0.00 |
| 46 | T | cis-1,3-Dichloropropene | 0.552 | 0.493 | 10.7 | 65 | 0.00 |
| 47 | T | 1,1,2-Trichloroethane | 0.382 | 0.434 | -13.6 | 87 | 0.00 |
| 48 | T | Dibromochloromethane | 0.647 | 0.705 | -9.0 | 81 | 0.00 |

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042286.D
Acq On : 09 Apr 2025 10:20
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**LabSampleId :**
VSTDCCC010

Quant Time: Apr 10 01:39:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | Bromoform | 0.581 | 0.630 | -8.4 | 79 | 0.00 |
| 50 | T | 4-Methyl-2-Pentanone | 1.149 | 1.122 | 2.3 | 80 | 0.00 |
| 51 | T | 2-Hexanone | 0.944 | 0.891 | 5.6 | 77 | 0.00 |
| 52 | T | Tetrachloroethene | 0.393 | 0.357 | 9.2 | 76 | 0.00 |
| 53 | T | Toluene | 1.175 | 1.171 | 0.3 | 76 | 0.00 |
| 54 | T | 1,2-Dibromoethane | 0.532 | 0.578 | -8.6 | 83 | 0.00 |
| 55 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 67 | 0.00 |
| 56 | | 1,1,1,2-Tetrachloroethane | 0.550 | 0.660 | -20.0 | 87 | 0.00 |
| 57 | T | Chlorobenzene | 0.949 | 1.140 | -20.1 | 88 | 0.00 |
| 58 | T | Ethyl Benzene | 1.776 | 1.924 | -8.3 | 78 | 0.00 |
| 59 | T | m/p-Xylene | 1.418 | 1.658 | -16.9 | 85 | 0.00 |
| 60 | T | o-Xylene | 1.422 | 1.659 | -16.7 | 84 | 0.00 |
| 61 | T | Styrene | 0.703 | 0.718 | -2.1 | 71 | 0.00 |
| 62 | | Isopropylbenzene | 2.126 | 2.453 | -15.4 | 84 | 0.00 |
| 63 | T | 1,1,2,2-Tetrachloroethane | 0.864 | 1.091 | -26.3 | 92 | 0.00 |
| 64 | | n-propylbenzene | 0.547 | 0.653 | -19.4 | 88 | 0.00 |
| 65 | | tert-Butylbenzene | 1.966 | 2.240 | -13.9 | 87 | 0.00 |
| 66 | T | Benzyl Chloride | 0.209 | 0.166 | 20.6 | 55 | 0.00 |
| 67 | | sec-Butylbenzene | 2.733 | 3.222 | -17.9 | 90 | 0.00 |
| 68 | S | 1-Bromo-4-Fluorobenzene | 0.821 | 0.815 | 0.7 | 68 | 0.00 |
| 69 | | p-Isopropyltoluene | 2.354 | 2.746 | -16.7 | 89 | 0.00 |
| 70 | | n-Butylbenzene | 2.407 | 2.852 | -18.5 | 90 | 0.00 |
| 71 | | 2-Chlorotoluene | 1.650 | 1.869 | -13.3 | 82 | 0.00 |
| 72 | T | 4-Ethyltoluene | 1.770 | 2.081 | -17.6 | 86 | 0.00 |
| 73 | T | 1,3,5-Trimethylbenzene | 1.546 | 1.772 | -14.6 | 86 | 0.00 |
| 74 | T | 1,2,4-Trimethylbenzene | 1.781 | 2.025 | -13.7 | 90 | 0.00 |
| 75 | T | 1,3-Dichlorobenzene | 0.977 | 1.218 | -24.7 | 93 | 0.00 |
| 76 | T | 1,4-Dichlorobenzene | 0.972 | 1.210 | -24.5 | 92 | 0.00 |
| 77 | T | 1,2-Dichlorobenzene | 0.951 | 1.197 | -25.9 | 95 | 0.00 |
| 78 | T | Hexachloro-1,3-Butadiene | 0.968 | 0.955 | 1.3 | 80 | 0.00 |
| 79 | T | Naphthalene | 1.948 | 2.309 | -18.5 | 86 | 0.00 |
| 80 | T | Naphthalene,2-methyl- | 0.955 | 1.066 | -11.6 | 73 | 0.00 |
| 81 | T | 1,2,4-Trichlorobenzene | 0.899 | 1.016 | -13.0 | 80 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WOOD06

Lab Code: CHEM Case No.: Q1665 SAS No.: Q1665 SDG No.: Q1665

Instrument ID: MSVOA_L Calibration Date/Time: 04/11/2025 09:50

Lab File ID: VL042312.D Init. Calib. Date(s): 03/27/2025 03/27/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 08:26 11:36

GC Column: RTX-1 ID: 0.32 (mm)

| COMPOUND | RRF | RRF010 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 1.476 | 1.441 | | -2.37 | 30 |
| Ethanol | 0.065 | 0.032 | | -50.77 | 30 |
| Chloromethane | 0.603 | 0.609 | | 1 | 30 |
| Vinyl Chloride | 0.639 | 0.557 | | -12.83 | 30 |
| Bromomethane | 0.273 | 0.234 | | -14.29 | 30 |
| Chloroethane | 0.242 | 0.228 | | -5.78 | 30 |
| Tetrahydrofuran | 0.418 | 0.467 | | 11.72 | 30 |
| Trichlorofluoromethane | 1.437 | 1.362 | | -5.22 | 30 |
| 1,1,2-Trichlorotrifluoroethane | 1.181 | 1.053 | | -10.84 | 30 |
| Dichlorotetrafluoroethane | 1.257 | 1.222 | | -2.78 | 30 |
| Bromoethene | 0.452 | 0.399 | | -11.73 | 30 |
| tert-Butyl alcohol | 1.742 | 1.391 | | -20.15 | 30 |
| Heptane | 1.839 | 1.822 | | -0.92 | 30 |
| Isopropyl Alcohol | 0.789 | 0.682 | | -13.56 | 30 |
| 1,1-Dichloroethene | 0.552 | 0.487 | | -11.77 | 30 |
| Acetone | 1.399 | 1.261 | | -9.86 | 30 |
| Carbon Disulfide | 1.503 | 1.325 | | -11.84 | 30 |
| Methyl tert-Butyl Ether | 0.873 | 0.703 | | -19.47 | 30 |
| Methylene Chloride | 0.521 | 0.419 | | -19.58 | 30 |
| trans-1,2-Dichloroethene | 0.638 | 0.555 | | -13.01 | 30 |
| 1,1-Dichloroethane | 1.183 | 1.132 | | -4.31 | 30 |
| Cyclohexane | 1.217 | 1.108 | | -8.96 | 30 |
| 2-Butanone | 0.725 | 0.821 | | 13.24 | 30 |
| Carbon Tetrachloride | 0.781 | 0.841 | | 7.68 | 30 |
| cis-1,2-Dichloroethene | 1.423 | 1.346 | | -5.41 | 30 |
| Chloroform | 2.052 | 2.143 | | 4.43 | 30 |
| 1,1,1-Trichloroethane | 2.349 | 2.070 | | -11.88 | 30 |
| 2,2,4-Trimethylpentane | 1.675 | 1.882 | | 12.36 | 30 |
| Benzene | 0.991 | 1.092 | | 10.19 | 30 |
| 1,2-Dichloroethane | 0.568 | 0.630 | | 10.91 | 30 |
| Trichloroethene | 0.414 | 0.438 | | 5.8 | 30 |
| 1,2-Dichloropropane | 0.361 | 0.400 | | 10.8 | 30 |
| Bromodichloromethane | 0.782 | 0.891 | | 13.94 | 30 |
| 4-Methyl-2-Pentanone | 1.149 | 1.147 | | -0.17 | 30 |
| Toluene | 1.175 | 1.181 | | 0.51 | 30 |
| t-1,3-Dichloropropene | 0.450 | 0.381 | | -15.33 | 30 |
| cis-1,3-Dichloropropene | 0.552 | 0.509 | | -7.79 | 30 |
| 1,1,2-Trichloroethane | 0.382 | 0.438 | | 14.66 | 30 |

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WOOD06

Lab Code: CHEM Case No.: Q1665 SAS No.: Q1665 SDG No.: Q1665

Instrument ID: MSVOA_L Calibration Date/Time: 04/11/2025 09:50

Lab File ID: VL042312.D Init. Calib. Date(s): 03/27/2025 03/27/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 08:26 11:36

GC Column: RTX-1 ID: 0.32 (mm)

| COMPOUND | RRF | RRF010 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dibromochloromethane | 0.647 | 0.718 | | 10.97 | 30 |
| 1,2-Dibromoethane | 0.532 | 0.576 | | 8.27 | 30 |
| Tetrachloroethene | 0.393 | 0.369 | | -6.11 | 30 |
| Chlorobenzene | 0.949 | 1.148 | | 20.97 | 30 |
| Ethyl Benzene | 1.776 | 1.942 | | 9.35 | 30 |
| m/p-Xylene | 1.418 | 1.649 | | 16.29 | 30 |
| o-Xylene | 1.422 | 1.645 | | 15.68 | 30 |
| Styrene | 0.703 | 0.726 | | 3.27 | 30 |
| Bromoform | 0.581 | 0.635 | | 9.29 | 30 |
| 1,1,2,2-Tetrachloroethane | 0.864 | 1.112 | | 28.7 | 30 |
| 2-Chlorotoluene | 1.650 | 1.885 | | 14.24 | 30 |
| 1,3,5-Trimethylbenzene | 1.546 | 1.819 | | 17.66 | 30 |
| 1,2,4-Trimethylbenzene | 1.781 | 2.042 | | 14.65 | 30 |
| 1,3-Dichlorobenzene | 0.977 | 1.227 | | 25.59 | 30 |
| 1,4-Dichlorobenzene | 0.972 | 1.218 | | 25.31 | 30 |
| 1,2-Dichlorobenzene | 0.951 | 1.233 | | 29.65 | 30 |
| 1,2,4-Trichlorobenzene | 0.899 | 0.934 | | 3.89 | 30 |
| Hexachloro-1,3-Butadiene | 0.968 | 0.929 | | -4.03 | 30 |
| 1,3-Butadiene | 0.683 | 0.611 | | -10.54 | 30 |
| Naphthalene | 1.948 | 2.055 | | 5.49 | 30 |
| 4-Ethyltoluene | 1.770 | 2.112 | | 19.32 | 30 |
| 1-Bromo-4-Fluorobenzene | 0.821 | 0.793 | | -3.41 | 30 |
| Hexane | 1.402 | 1.398 | | -0.28 | 30 |
| Allyl Chloride | 0.986 | 0.887 | | -10.04 | 30 |
| 1,4-Dioxane | 191.626 | 177.632 | | -7.3 | 30 |
| Methyl Methacrylate | 0.420 | 0.398 | | -5.24 | 30 |

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042312.D
Acq On : 11 Apr 2025 09:50
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 11 22:56:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Bromochloromethane | 2.787 | 49 | 183700 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.959 | 114 | 463746 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.885 | 117 | 401340 | 10.000 | ppbv | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95 | 318204 | 9.655 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 96.500% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.499 | 85 | 264775 | 9.762 | ppbv | 100 |
| 3) Chlorodifluoromethane | 1.476 | 51 | 287991 | 10.394 | ppbv | 97 |
| 4) Chloromethane | 1.531 | 50 | 111786 | 10.085 | ppbv | 98 |
| 5) Vinyl Chloride | 1.580 | 62 | 102342 | 8.713 | ppbv | 95 |
| 6) Bromomethane | 1.667 | 94 | 43054 | 8.571 | ppbv | 99 |
| 7) Chloroethane | 1.703 | 64 | 41946 | 9.427 | ppbv | 98 |
| 8) Dichlorotetrafluoroethane | 1.554 | 85 | 224489 | 9.719 | ppbv | 94 |
| 9) Propene | 1.483 | 41 | 117677 | 9.266 | ppbv | 99 |
| 10) Heptane | 4.981 | 43 | 334707 | 9.908 | ppbv | 100 |
| 11) Trichlorofluoromethane | 1.877 | 101 | 250122 | 9.477 | ppbv | 99 |
| 12) 1,1,2-Trichlorotrifluo... | 2.140 | 101 | 193510 | 8.920 | ppbv | 97 |
| 13) Ethanol | 1.722 | 45 | 5849 | 4.872 | ppbv | 89 |
| 14) Bromoethene | 1.780 | 108 | 73294 | 8.820 | ppbv | 100 |
| 15) Acetone | 1.835 | 43 | 231724 | 9.019 | ppbv | 97 |
| 16) 1,3-Butadiene | 1.609 | 39 | 112297 | 8.950 | ppbv | 97 |
| 17) tert-Butyl alcohol | 2.039 | 59 | 255575 | 7.987 | ppbv | 99 |
| 18) 1,1-Dichloroethene | 2.033 | 96 | 89512 | 8.827 | ppbv | 98 |
| 19) Isopropyl Alcohol | 1.887 | 45 | 125233 | 8.639 | ppbv | 92 |
| 20) Methylene Chloride | 2.062 | 84 | 76968 | 8.044 | ppbv | 93 |
| 21) Allyl Chloride | 2.098 | 41 | 162998 | 8.996 | ppbv | 97 |
| 22) trans-1,2-Dichloroethene | 2.340 | 96 | 101974 | 8.700 | ppbv | 95 |
| 23) Vinyl Acetate | 2.463 | 43 | 95152 | 8.557 | ppbv | 99 |
| 24) 1,1-Dichloroethane | 2.408 | 63 | 207862 | 9.567 | ppbv | 99 |
| 25) Ethyl Acetate | 2.835 | 43 | 678920 | 10.182 | ppbv | 99 |
| 26) Hexane | 2.826 | 57 | 256866 | 9.973 | ppbv | 98 |
| 27) Carbon Disulfide | 2.149 | 76 | 243367 | 8.812 | ppbv | 98 |
| 28) Methyl tert-Butyl Ether | 2.441 | 73 | 129141 | 8.053 | ppbv | 96 |
| 29) Chloroform | 2.848 | 83 | 393638 | 10.443 | ppbv | 98 |
| 30) Cyclohexane | 3.858 | 84 | 203526 | 9.100 | ppbv | 97 |
| 31) cis-1,2-Dichloroethene | 2.722 | 61 | 247194 | 9.454 | ppbv | 97 |
| 32) 1,1,1-Trichloroethane | 3.370 | 97 | 380312 | 8.813 | ppbv | 98 |
| 34) 2-Butanone | 2.557 | 43 | 380682 | 11.321 | ppbv | 98 |
| 35) Carbon Tetrachloride | 3.764 | 117 | 390140 | 10.769 | ppbv | 98 |
| 36) Benzene | 3.658 | 78 | 506278 | 11.012 | ppbv | 97 |
| 37) 1,2-Dichloroethane | 3.221 | 62 | 292183 | 11.101 | ppbv | 99 |
| 38) Trichloroethene | 4.551 | 130 | 203156 | 10.591 | ppbv | 96 |
| 39) 1,2-Dichloropropane | 4.315 | 63 | 185497 | 11.079 | ppbv | 97 |
| 40) 1,4-Dioxane | 4.583 | 88 | 82376 | 9.270 | ppbv # | 98 |
| 41) Tetrahydrofuran | 3.056 | 42 | 216646 | 11.188 | ppbv | 93 |
| 42) Bromodichloromethane | 4.493 | 83 | 413250 | 11.389 | ppbv | 99 |
| 43) Methyl Methacrylate | 4.884 | 69 | 184472 | 9.478 | ppbv | 96 |
| 44) 2,2,4-Trimethylpentane | 4.642 | 57 | 872871 | 11.235 | ppbv | 98 |
| 45) t-1,3-Dichloropropene | 6.422 | 75 | 176804 | 8.467 | ppbv | 97 |

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042312.D
Acq On : 11 Apr 2025 09:50
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 11 22:56:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.603 | 75 | 236039 | 9.222 | ppbv | | 99 |
| 47) 1,1,2-Trichloroethane | 6.583 | 97 | 202891 | 11.463 | ppbv | | 98 |
| 48) Dibromochloromethane | 7.389 | 129 | 333128 | 11.106 | ppbv | | 99 |
| 49) Bromoform | 9.484 | 173 | 294489 | 10.935 | ppbv | | 100 |
| 50) 4-Methyl-2-Pentanone | 5.755 | 43 | 531851 | 9.980 | ppbv | | 95 |
| 51) 2-Hexanone | 7.438 | 43 | 424035 | 9.689 | ppbv | # | 94 |
| 52) Tetrachloroethene | 8.224 | 164 | 170989 | 9.378 | ppbv | | 97 |
| 53) Toluene | 6.936 | 91 | 547579 | 10.048 | ppbv | | 99 |
| 54) 1,2-Dibromoethane | 7.655 | 107 | 267225 | 10.831 | ppbv | | 99 |
| 56) 1,1,1,2-Tetrachloroethane | 8.927 | 131 | 271350 | 12.283 | ppbv | | 100 |
| 57) Chlorobenzene | 8.924 | 112 | 460598 | 12.099 | ppbv | | 98 |
| 58) Ethyl Benzene | 9.357 | 91 | 779227 | 10.931 | ppbv | | 98 |
| 59) m/p-Xylene | 9.552 | 91 | 1323463m | 23.249 | ppbv | | |
| 60) o-Xylene | 9.966 | 91 | 660065 | 11.567 | ppbv | | 96 |
| 61) Styrene | 9.872 | 104 | 291355 | 10.320 | ppbv | | 99 |
| 62) Isopropylbenzene | 10.542 | 105 | 988337 | 11.582 | ppbv | | 98 |
| 63) 1,1,2,2-Tetrachloroethane | 9.966 | 83 | 446341 | 12.873 | ppbv | | 99 |
| 64) n-propylbenzene | 10.992 | 120 | 268681 | 12.231 | ppbv | | 97 |
| 65) tert-Butylbenzene | 11.532 | 119 | 932850 | 11.820 | ppbv | | 98 |
| 66) Benzyl Chloride | 11.616 | 91 | 68675 | 8.201 | ppbv | | 99 |
| 67) sec-Butylbenzene | 11.769 | 105 | 1310042 | 11.942 | ppbv | | 100 |
| 69) p-Isopropyltoluene | 11.927 | 119 | 1107045 | 11.720 | ppbv | | 99 |
| 70) n-Butylbenzene | 12.283 | 91 | 1144571 | 11.848 | ppbv | | 99 |
| 71) 2-Chlorotoluene | 10.904 | 91 | 756562 | 11.423 | ppbv | | 98 |
| 72) 4-Ethyltoluene | 11.128 | 105 | 847821 | 11.932 | ppbv | | 99 |
| 73) 1,3,5-Trimethylbenzene | 11.205 | 105 | 729887 | 11.762 | ppbv | | 99 |
| 74) 1,2,4-Trimethylbenzene | 11.539 | 105 | 819490 | 11.463 | ppbv | | 92 |
| 75) 1,3-Dichlorobenzene | 11.610 | 146 | 492549 | 12.562 | ppbv | | 99 |
| 76) 1,4-Dichlorobenzene | 11.675 | 146 | 488636 | 12.522 | ppbv | | 98 |
| 77) 1,2-Dichlorobenzene | 11.950 | 146 | 494739 | 12.959 | ppbv | | 98 |
| 78) Hexachloro-1,3-Butadiene | 13.882 | 225 | 373025 | 9.599 | ppbv | | 99 |
| 79) Naphthalene | 13.516 | 128 | 824947 | 10.550 | ppbv | | 100 |
| 80) Naphthalene,2-methyl- | 14.458 | 142 | 276556 | 7.212 | ppbv | | 98 |
| 81) 1,2,4-Trichlorobenzene | 13.442 | 180 | 374714 | 10.389 | ppbv | | 99 |

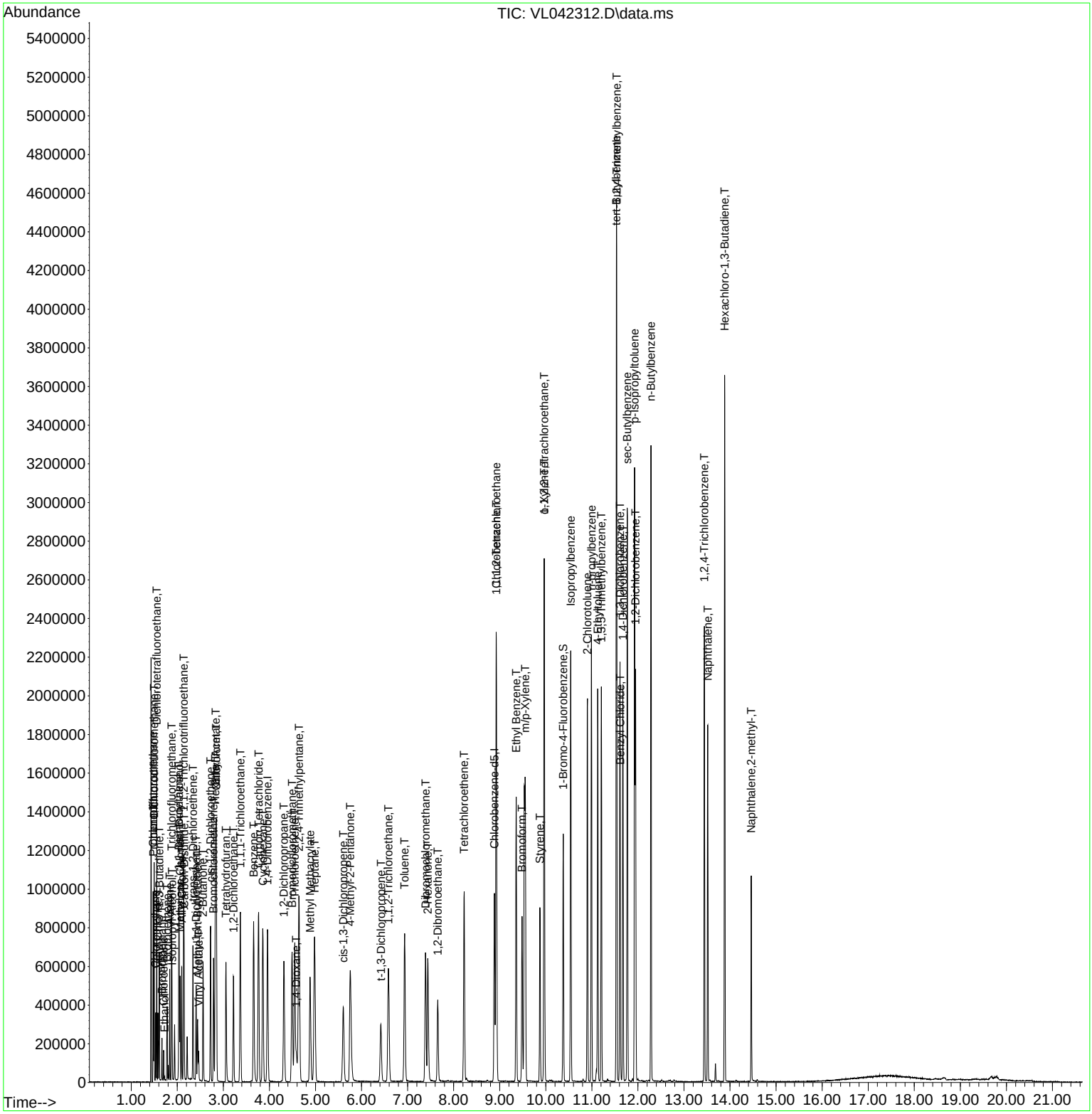
(#) = qualifier out of range (m) = manual integration (+) = signals summed

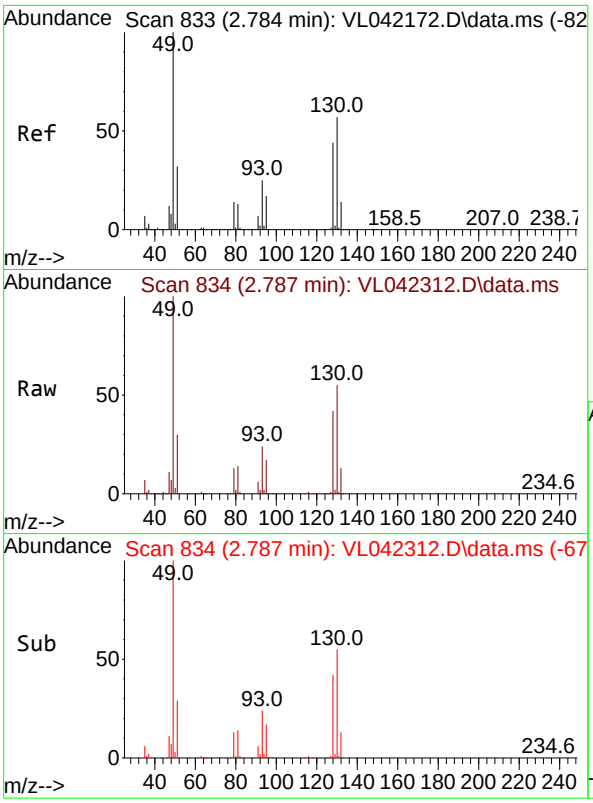
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042312.D
Acq On : 11 Apr 2025 09:50
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 11 22:56:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

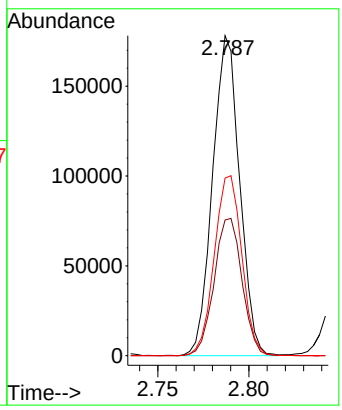





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 49 Resp: 18370

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 44.4 | 22.9 | 68.5 |
| 130 | 57.3 | 28.8 | 86.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/16/2025
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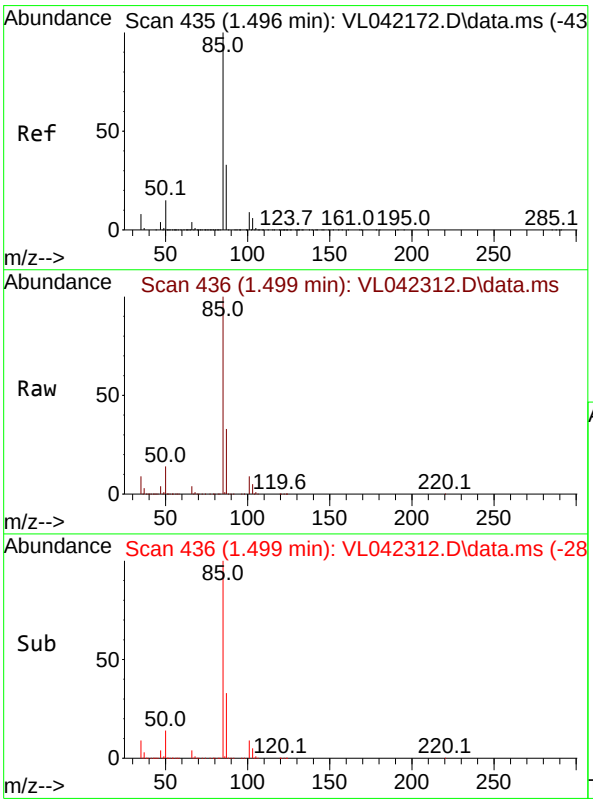
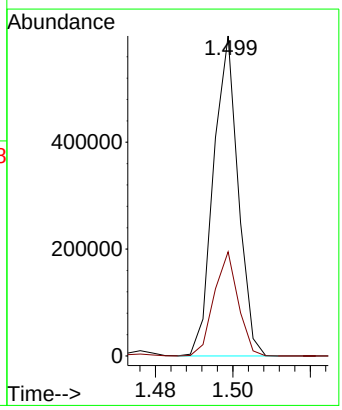
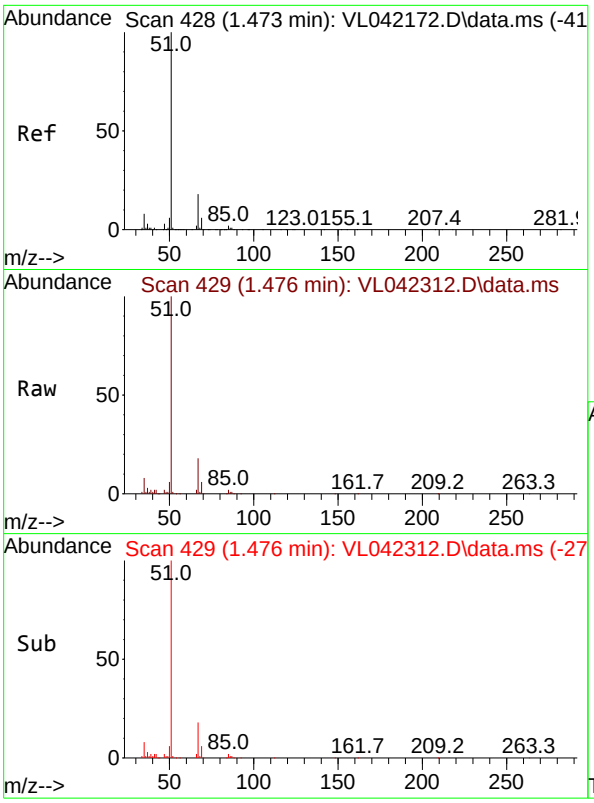



#2
Dichlorodifluoromethane
Concen: 9.762 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 85 Resp: 264775

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.5 | 26.1 | 39.1 |

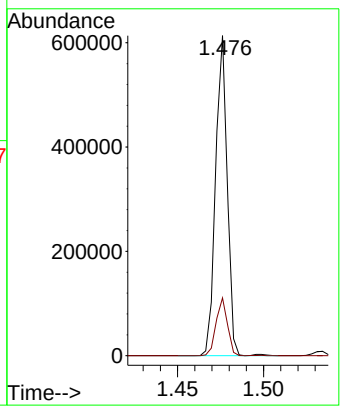





#3
Chlorodifluoromethane
Concen: 10.394 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 51 Resp: 28799

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 17.6 | 15.0 | 22.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
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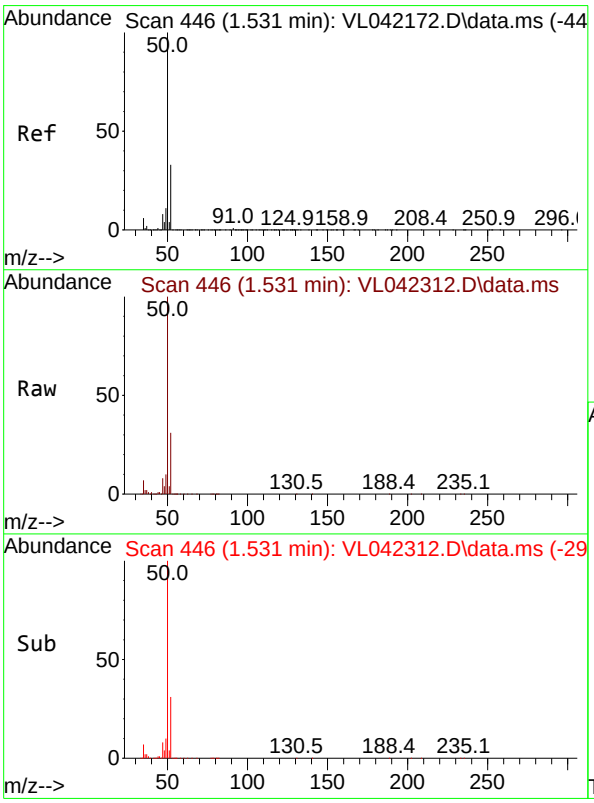
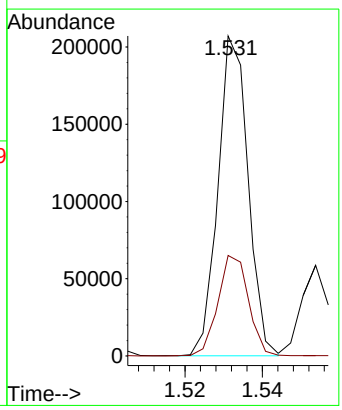
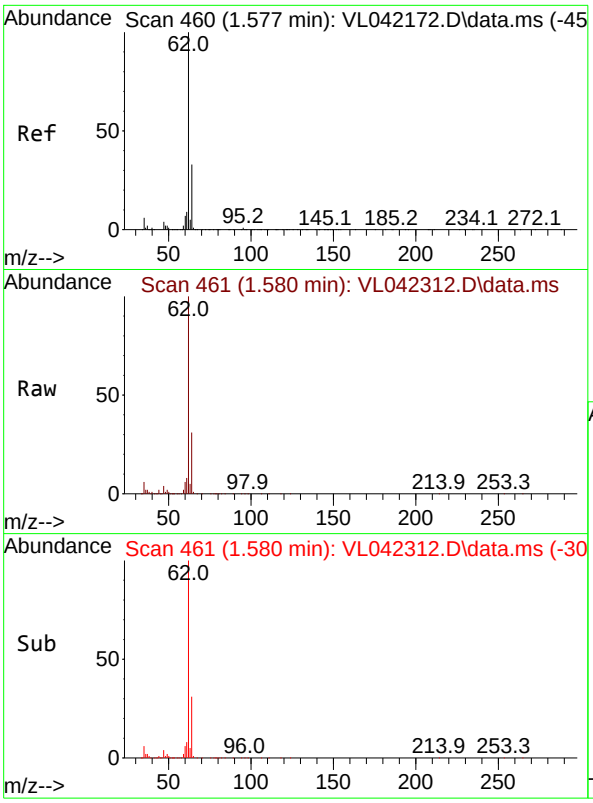



#4
Chloromethane
Concen: 10.085 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 50 Resp: 111786

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 31.3 | 26.1 | 39.1 |

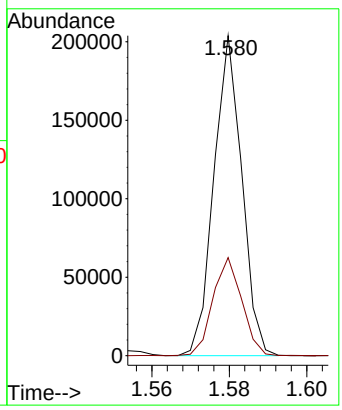





#5
Vinyl Chloride
Concen: 8.713 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 62 Resp: 10234

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 30.6 | 26.6 | 40.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
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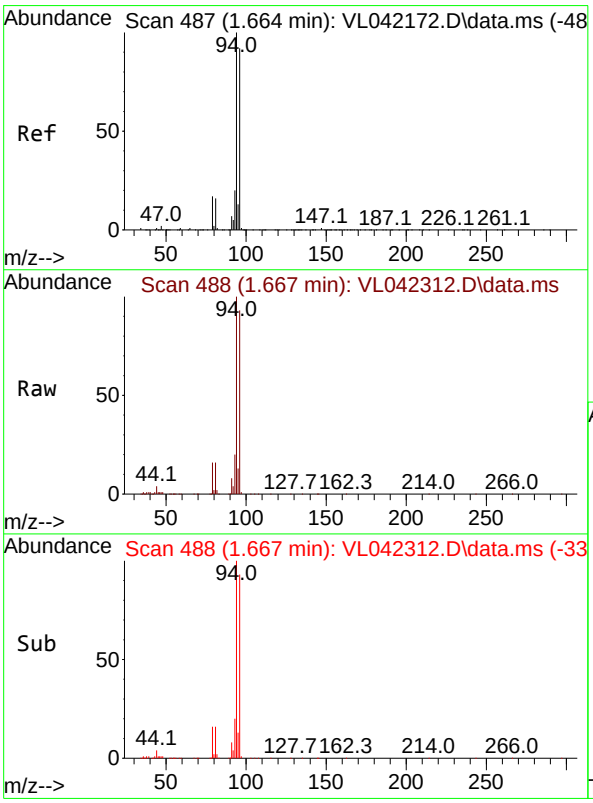
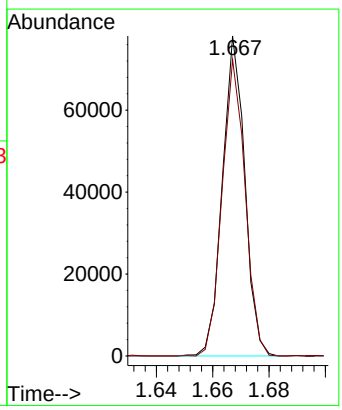
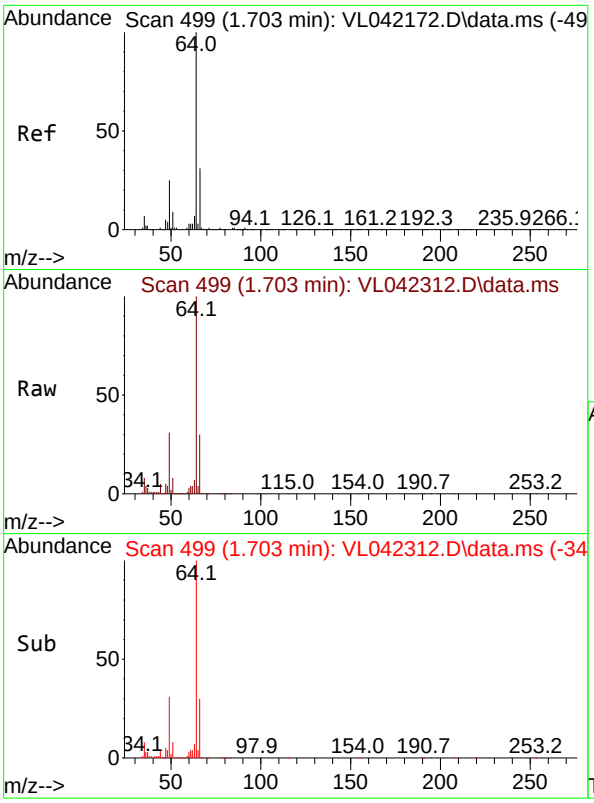



#6
Bromomethane
Concen: 8.571 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 94 Resp: 43054

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 92.7 | 73.1 | 109.7 |

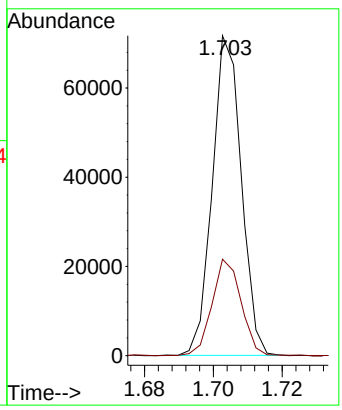





#7
Chloroethane
Concen: 9.427 ppbv
RT: 1.703 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 64 Resp: 4194

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 30.1 | 25.2 | 37.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
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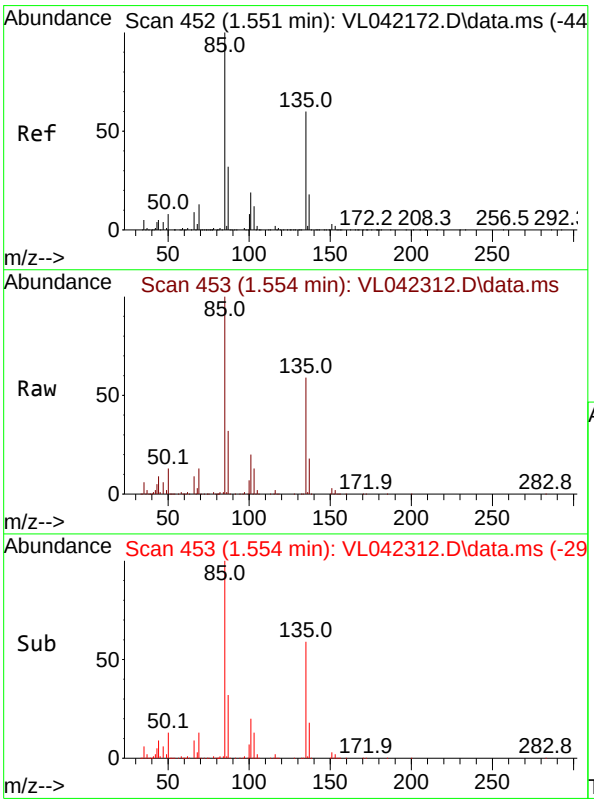
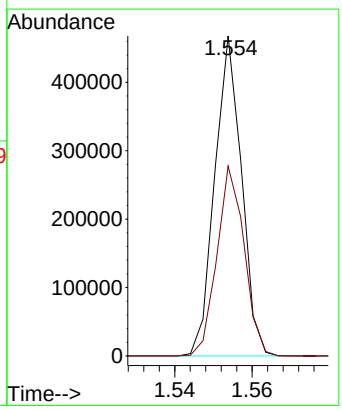
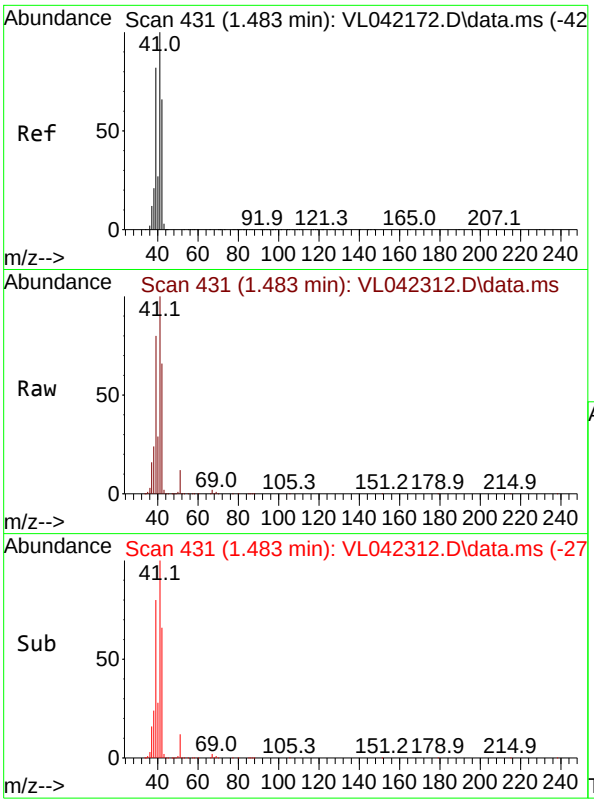



#8
Dichlorotetrafluoroethane
Concen: 9.719 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 85 Resp: 224489

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 60.5 | 52.4 | 78.6 |

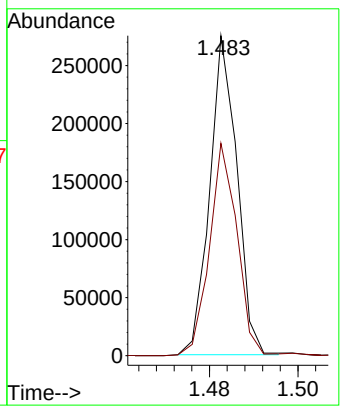





#9
Propene
Concen: 9.266 ppbv
RT: 1.483 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 41 Resp: 11767

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 68.3 | 55.4 | 83.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
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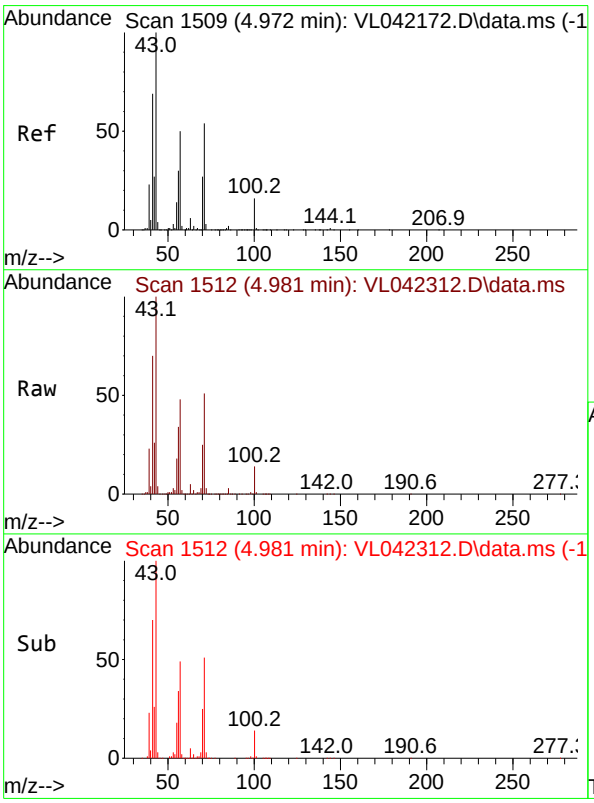
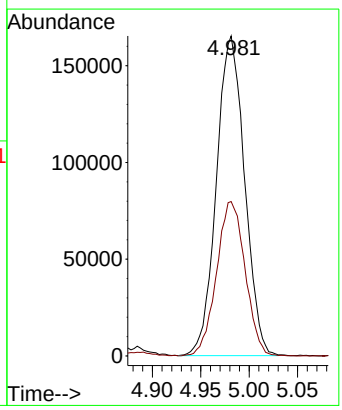
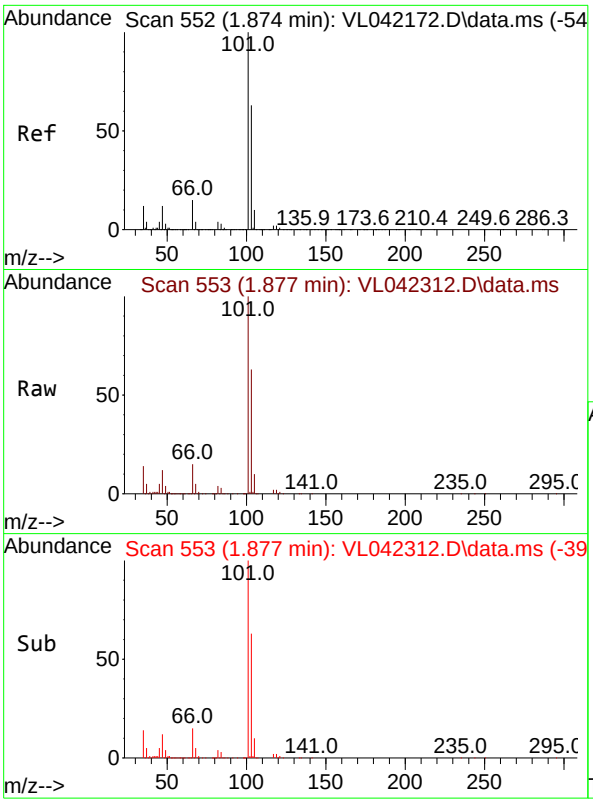



#10
Heptane
Concen: 9.908 ppbv
RT: 4.981 min Scan# 1512
Delta R.T. 0.009 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 43 Resp: 334707

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 49.0 | 39.4 | 59.2 |

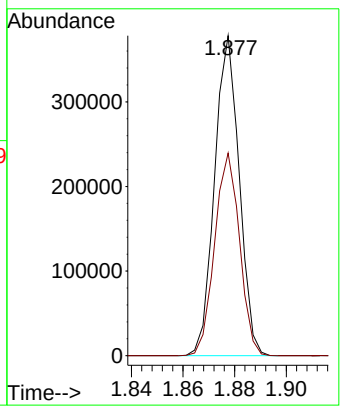





#11
Trichlorofluoromethane
Concen: 9.477 ppbv
RT: 1.877 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:101 Resp: 25012

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.3 | 50.2 | 75.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
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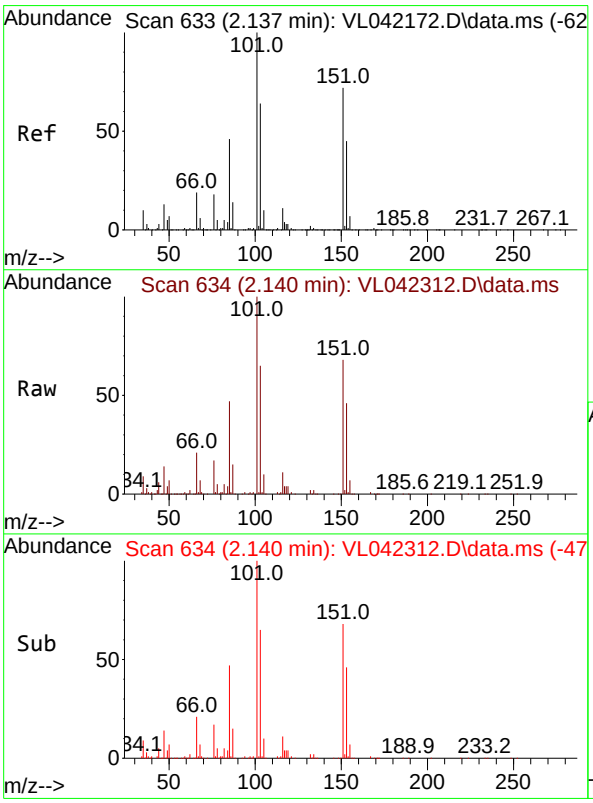
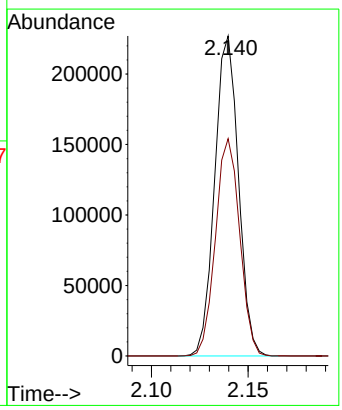
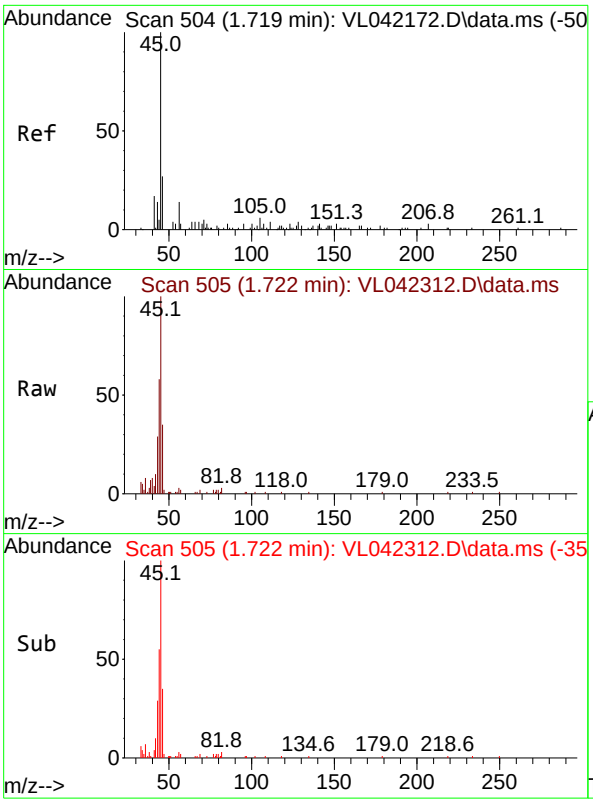



#12
1,1,2-Trichlorotrifluoroethane
Concen: 8.920 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:101 Resp: 193510

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 69.2 | 57.1 | 85.7 |

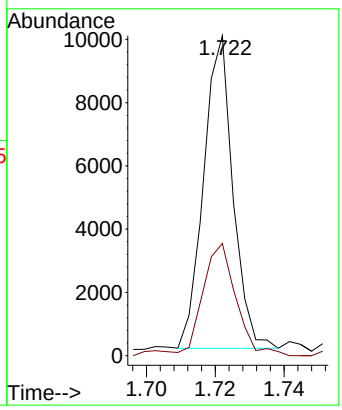





#13
Ethanol
Concen: 4.872 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 45 Resp: 584

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 43.0 | 20.2 | 80.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
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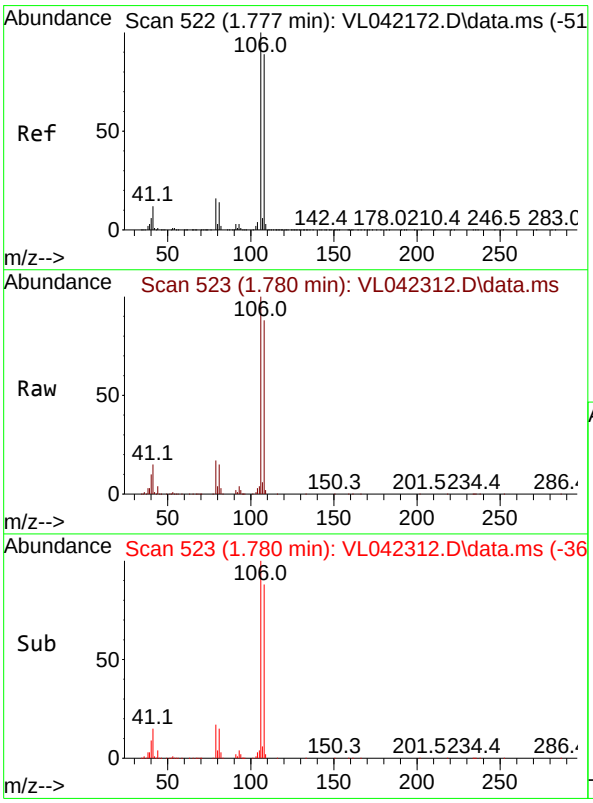
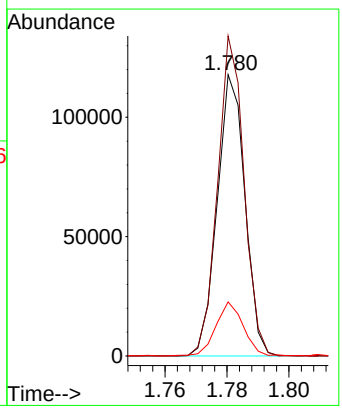
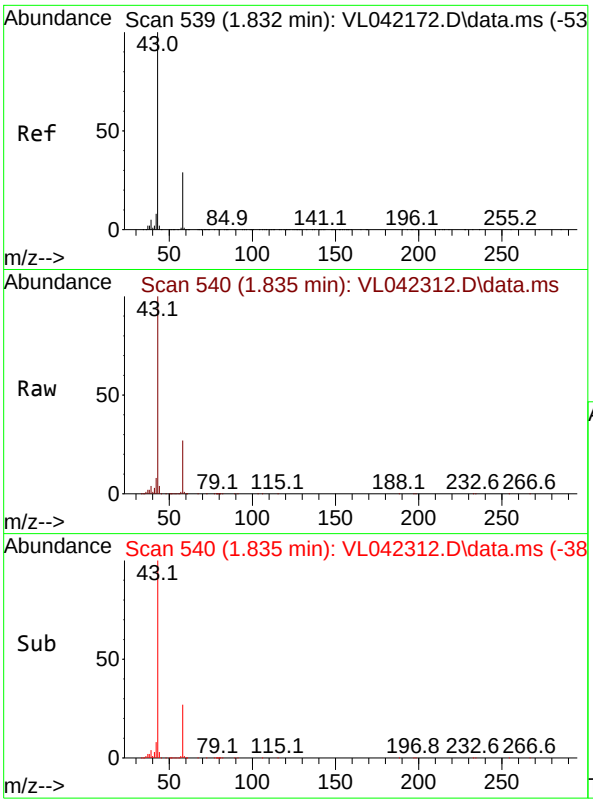



#14
Bromoethene
Concen: 8.820 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:108 Resp: 73294

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 106 | 108.4 | 86.8 | 130.2 |
| 79 | 19.5 | 15.0 | 22.6 |

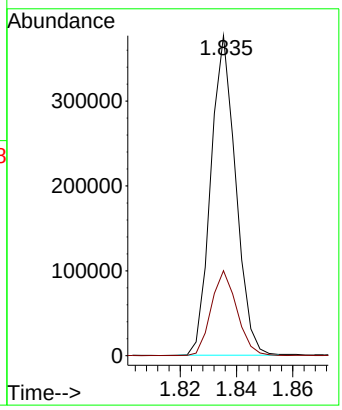





#15
Acetone
Concen: 9.019 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 43 Resp: 23172

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 27.5 | 23.2 | 34.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
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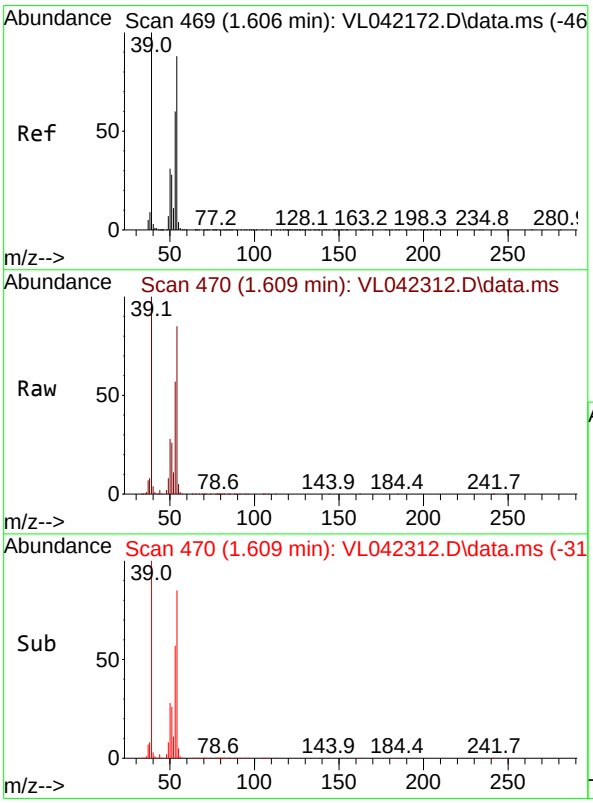
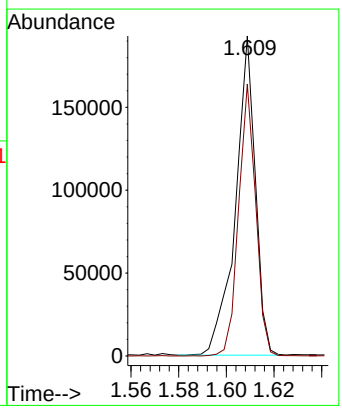
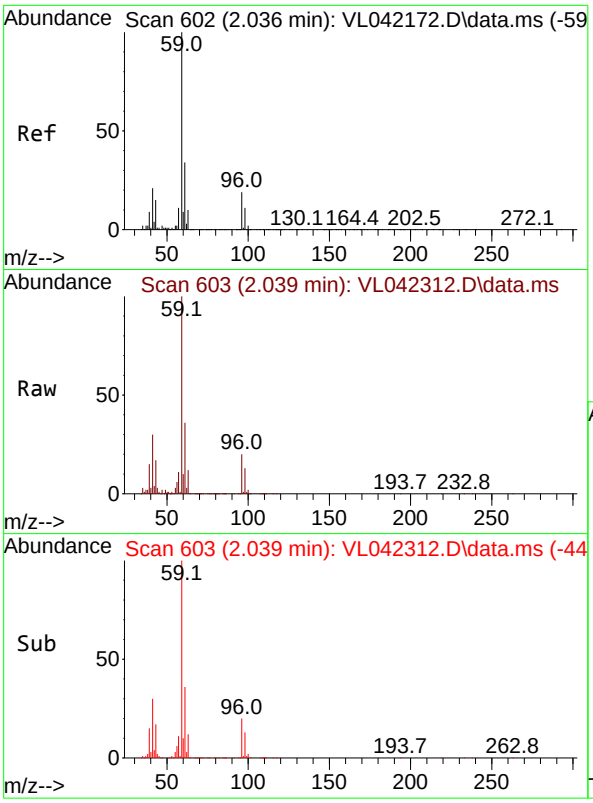



#16
1,3-Butadiene
Concen: 8.950 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 39 Resp: 112297

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 73.5 | 60.7 | 91.1 |

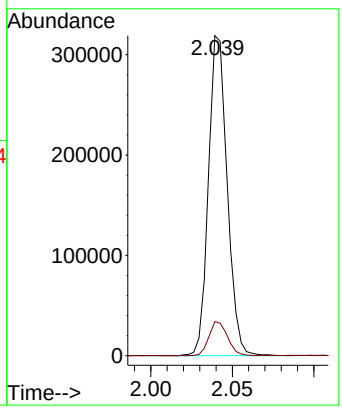





#17
tert-Butyl alcohol
Concen: 7.987 ppbv
RT: 2.039 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 59 Resp: 25557

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.6 | 8.9 | 13.3 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
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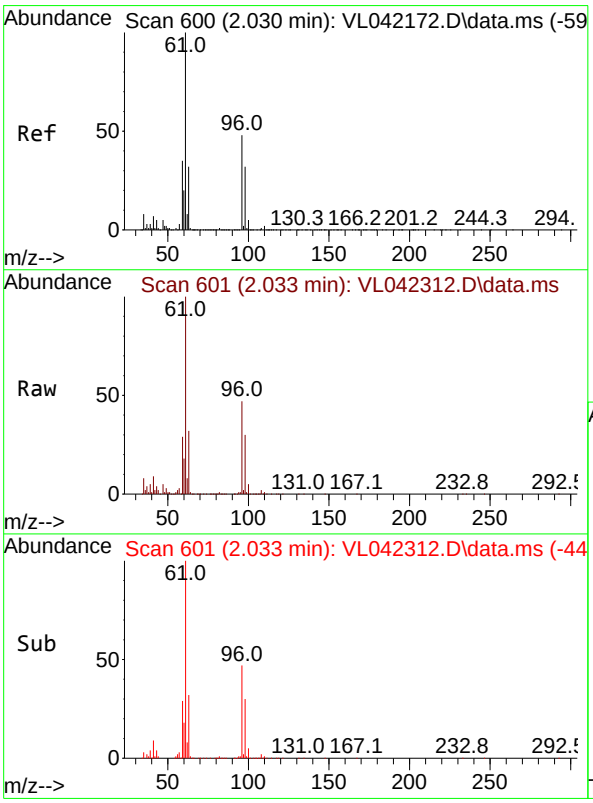
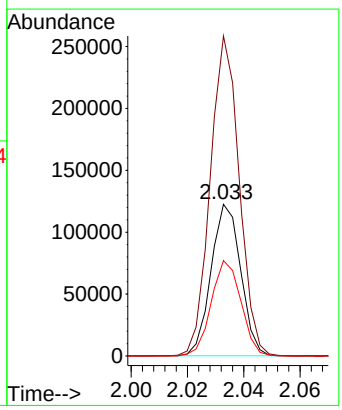
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

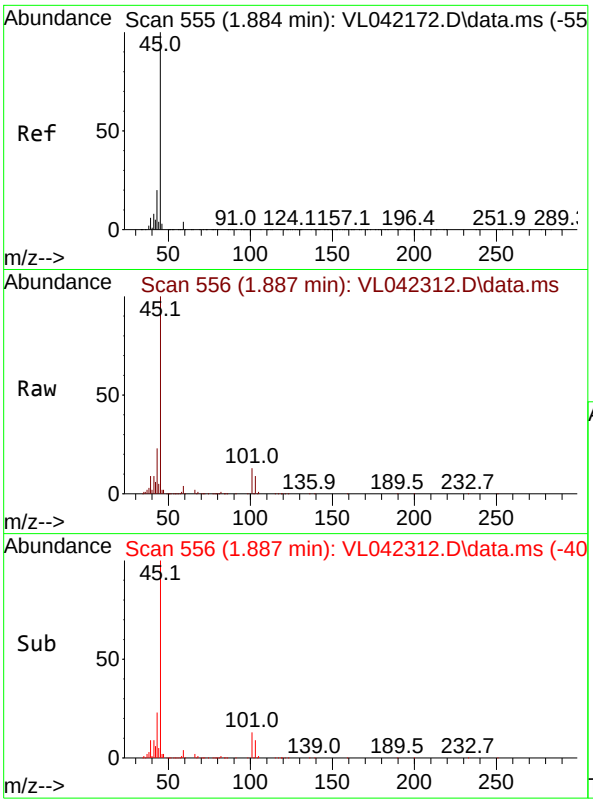



#18
1,1-Dichloroethene
Concen: 8.827 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 96 Resp: 89512

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 210.8 | 167.6 | 251.4 |
| 98 | 62.9 | 53.5 | 80.3 |






#19
Isopropyl Alcohol
Concen: 8.639 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 45 Resp: 12523

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 51.2 | 36.9 | 55.3 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
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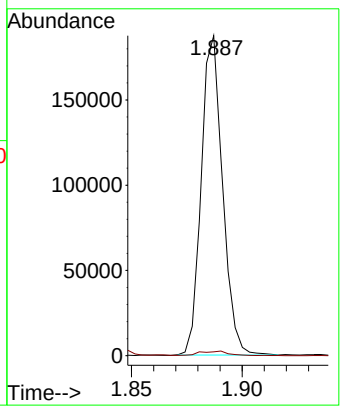
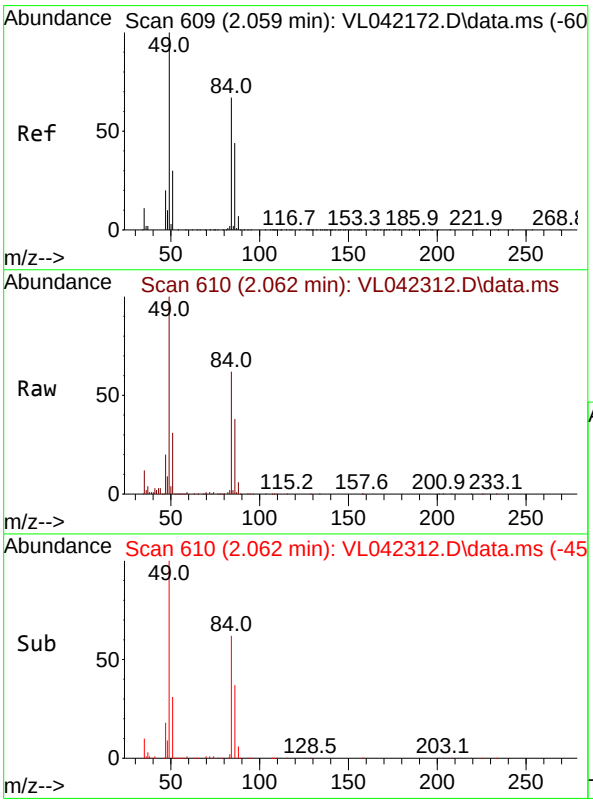
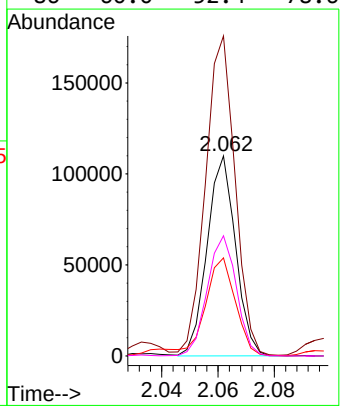


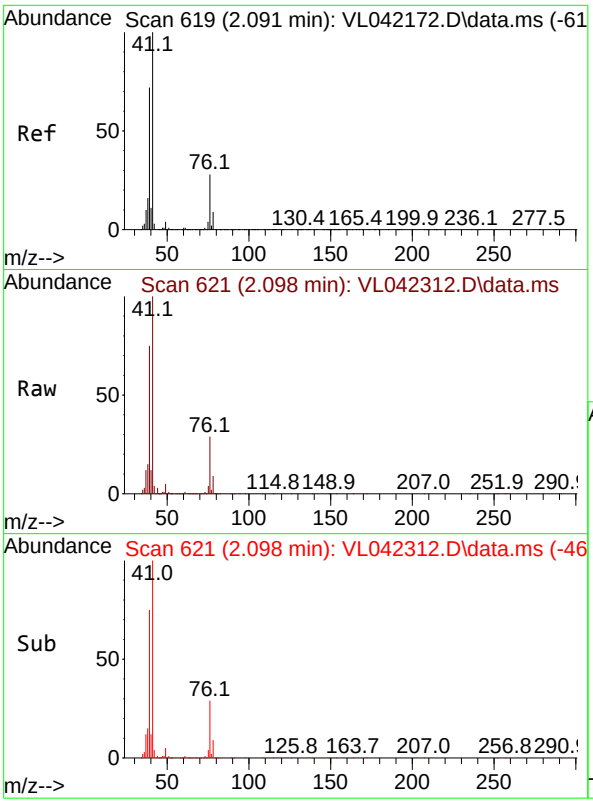




#20
Methylene Chloride
Concen: 8.044 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 84 Resp: 76968

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 159.9 | 120.2 | 180.4 |
| 51 | 48.8 | 37.4 | 56.0 |
| 86 | 60.0 | 52.4 | 78.6 |






#21
Allyl Chloride
Concen: 8.996 ppbv
RT: 2.098 min Scan# 6
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 41 Resp: 16299

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 27.7 | 24.1 | 36.1 |
| 39 | 74.5 | 61.1 | 91.7 |

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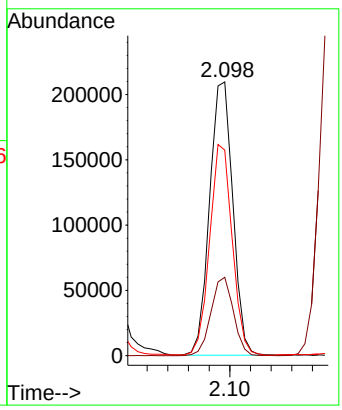
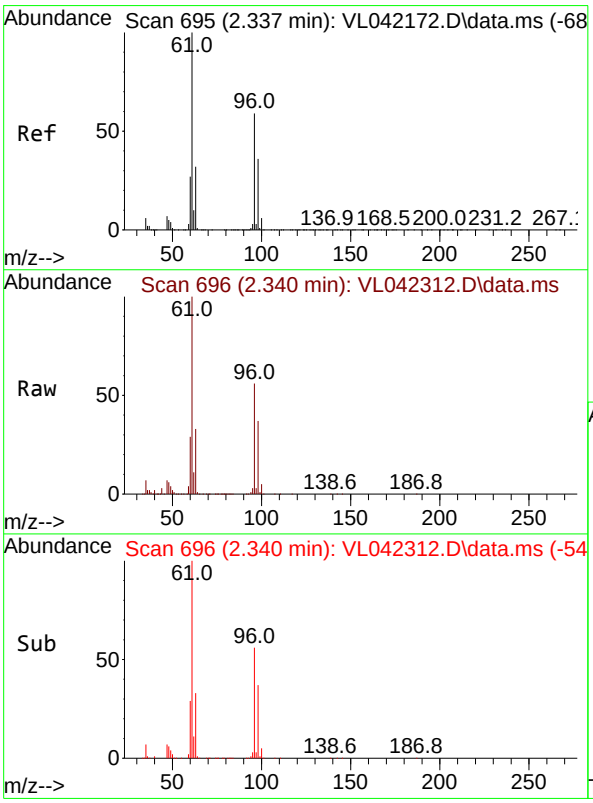
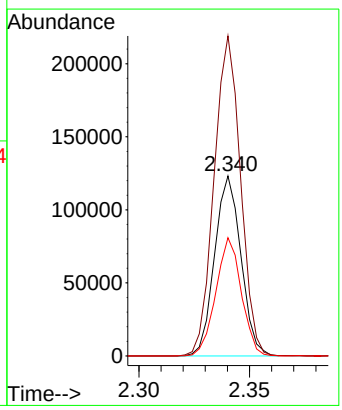


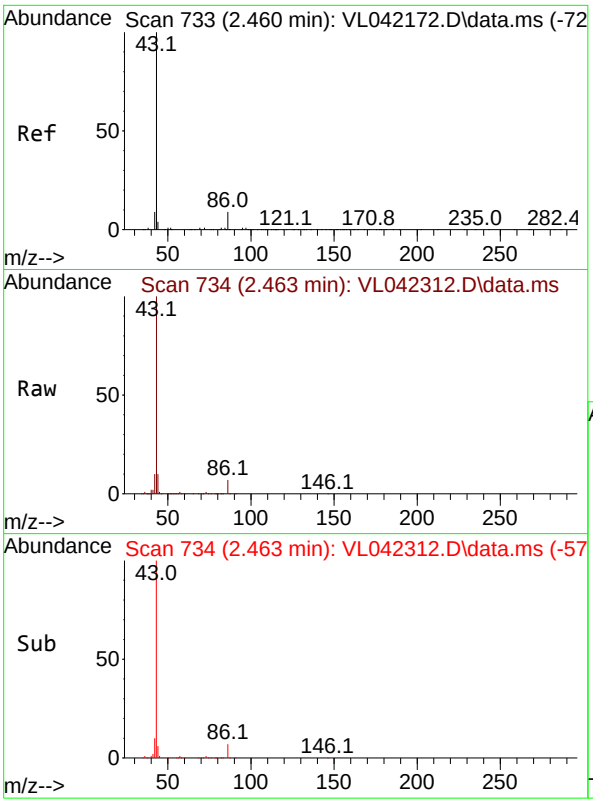




#22
trans-1,2-Dichloroethene
Concen: 8.700 ppbv
RT: 2.340 min Scan# 696
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 96 Resp: 101974

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 177.7 | 136.6 | 204.8 |
| 98 | 65.6 | 49.4 | 74.2 |

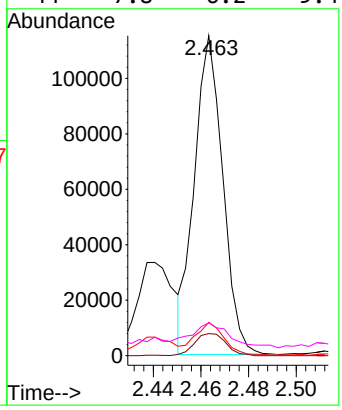





#23
Vinyl Acetate
Concen: 8.557 ppbv
RT: 2.463 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 43 Resp: 9515

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 6.9 | 5.5 | 8.3 |
| 42 | 10.1 | 8.6 | 13.0 |
| 44 | 7.8 | 6.2 | 9.4 |




**Instrument :**
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**ClientSampleId :**
VSTDCCC010

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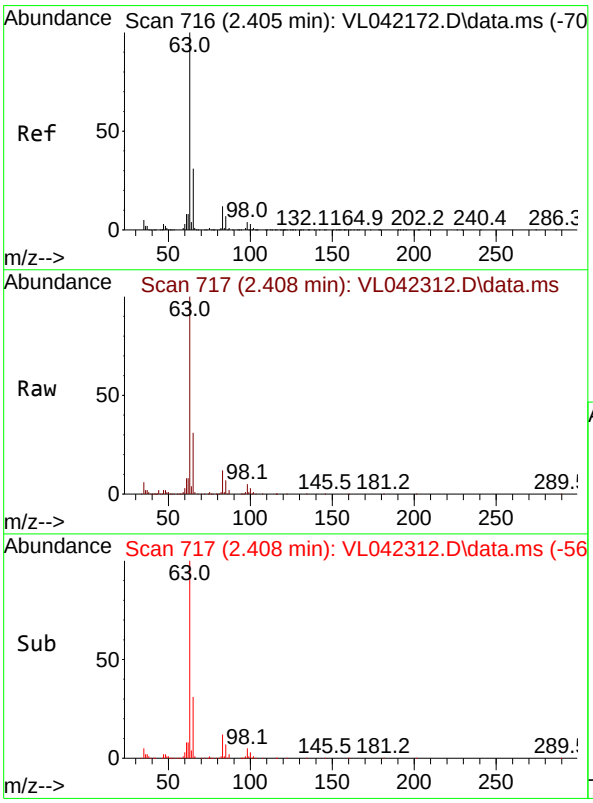
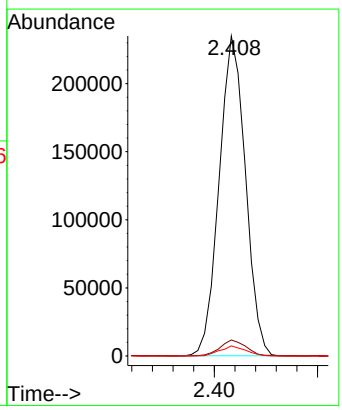
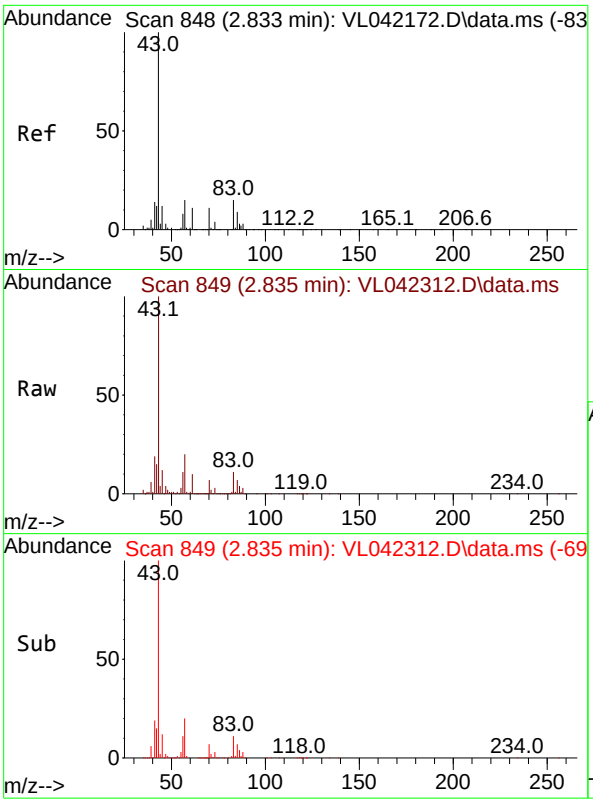



#24
1,1-Dichloroethane
Concen: 9.567 ppbv
RT: 2.408 min Scan# 717
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 63 Resp: 207862

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 5.0 | 2.3 | 6.8 |
| 100 | 3.2 | 1.6 | 4.7 |

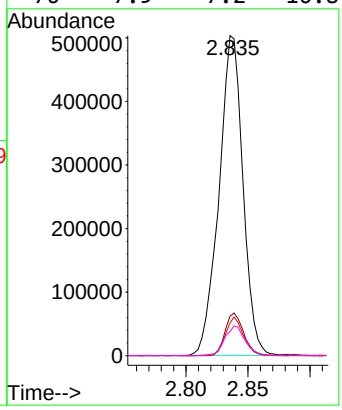





#25
Ethyl Acetate
Concen: 10.182 ppbv
RT: 2.835 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 43 Resp: 67892

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 10.5 | 8.2 | 12.2 |
| 61 | 9.1 | 7.3 | 10.9 |
| 70 | 7.9 | 7.2 | 10.8 |

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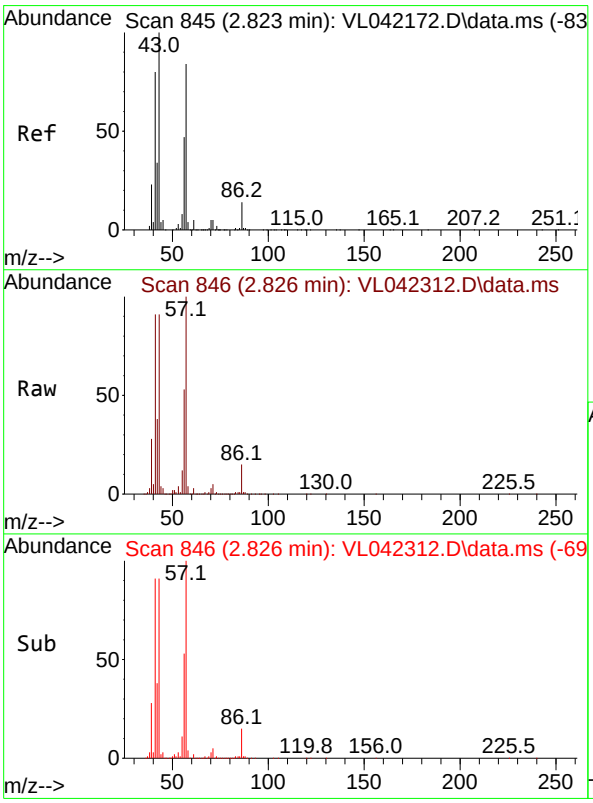
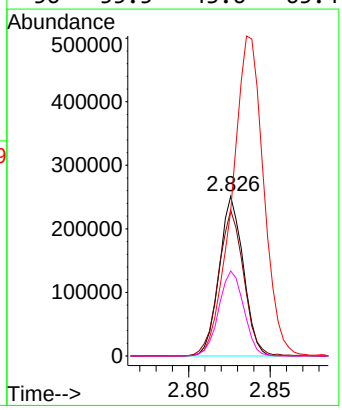
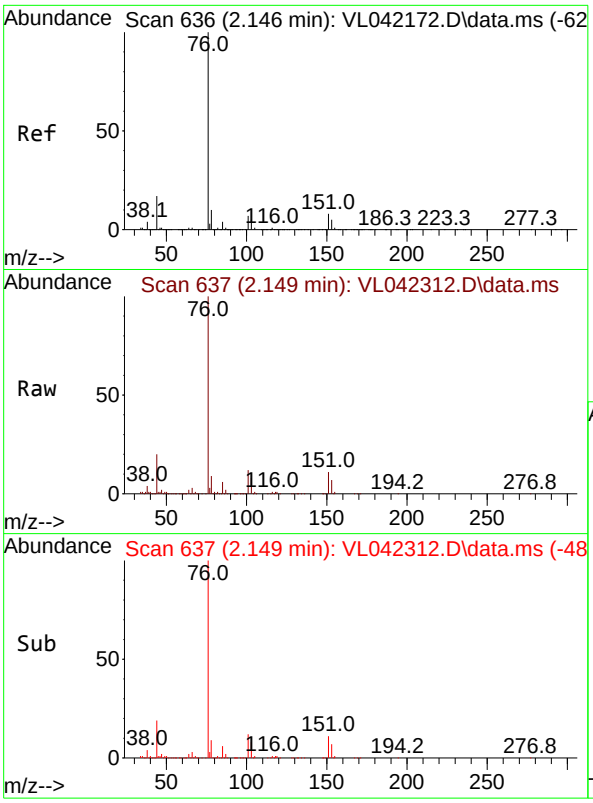



#26
Hexane
Concen: 9.973 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 57 Resp: 256866

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 96.5 | 76.6 | 114.8 |
| 43 | 265.7 | 207.8 | 311.8 |
| 56 | 55.5 | 43.6 | 65.4 |






#27
Carbon Disulfide
Concen: 8.812 ppbv
RT: 2.149 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 76 Resp: 24336

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 19.5 | 14.7 | 22.1 |
| 78 | 11.6 | 9.3 | 13.9 |

**Instrument :**
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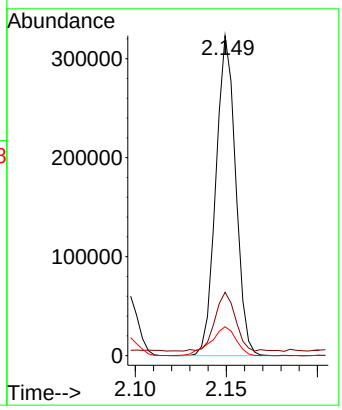
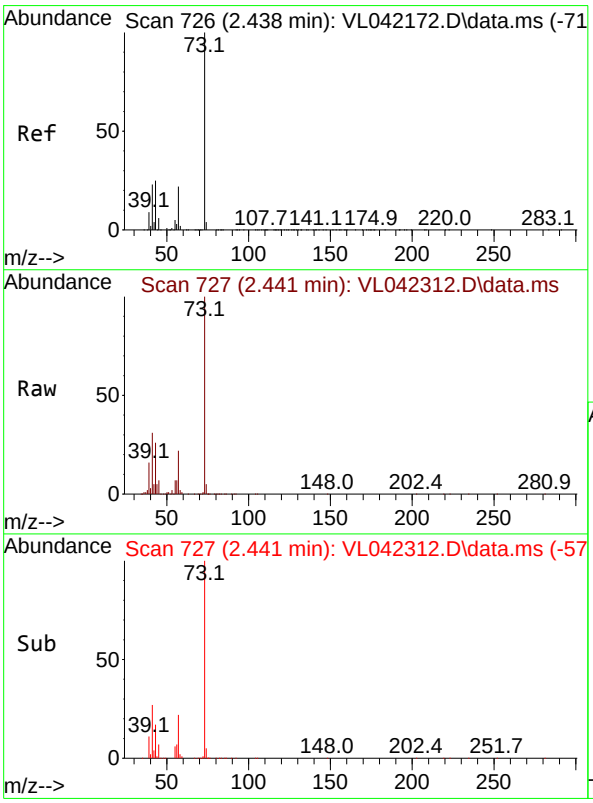
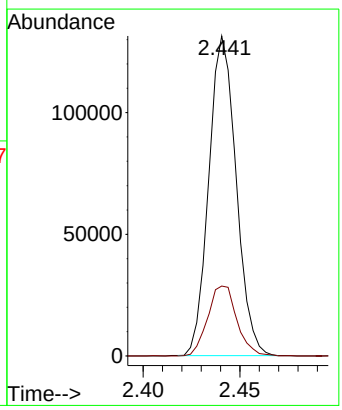


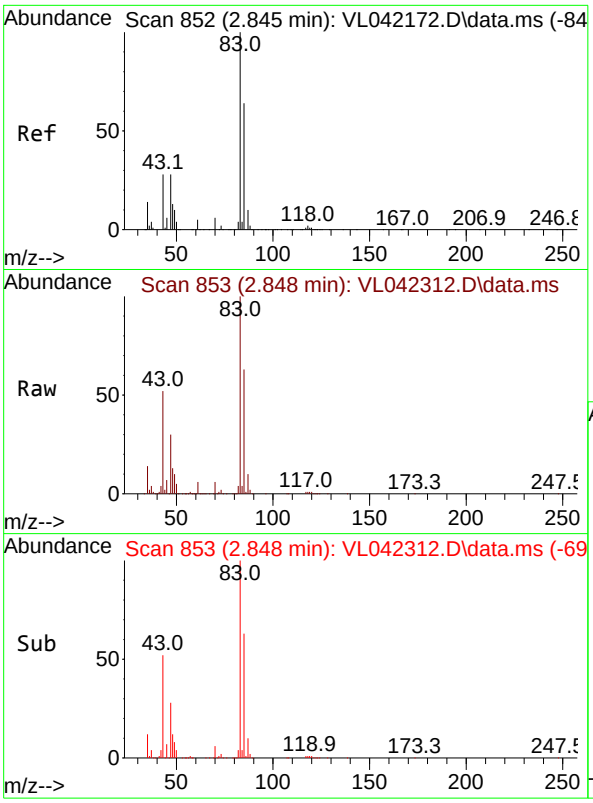




#28
Methyl tert-Butyl Ether
Concen: 8.053 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 73 Resp: 129141

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 23.4 | 20.5 | 30.7 |

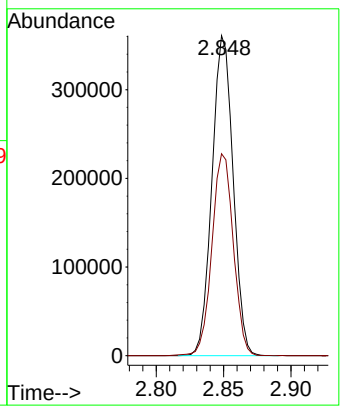





#29
Chloroform
Concen: 10.443 ppbv
RT: 2.848 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 83 Resp: 39363

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.1 | 51.4 | 77.2 |

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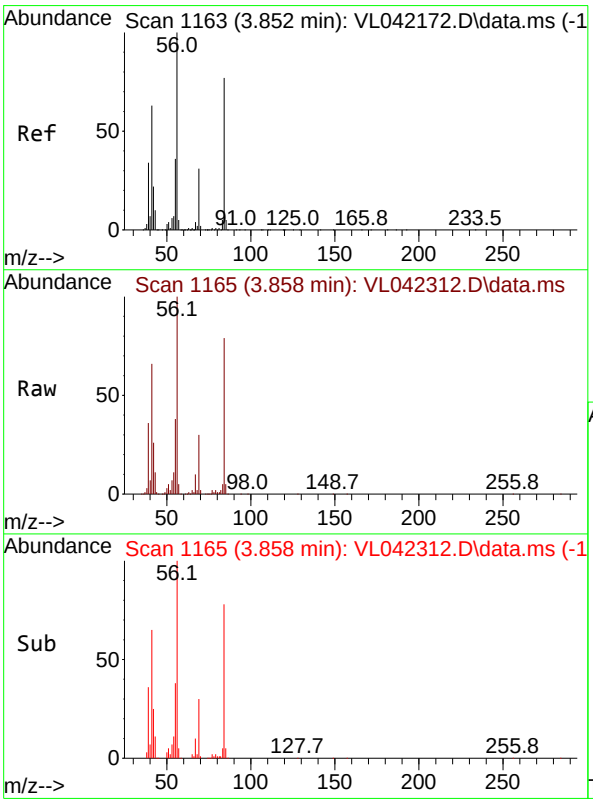
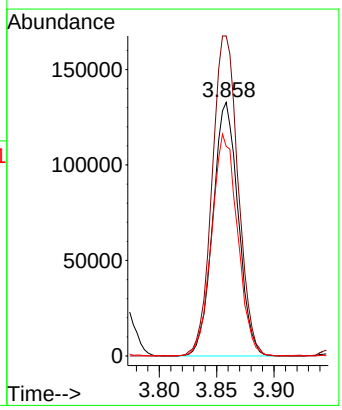
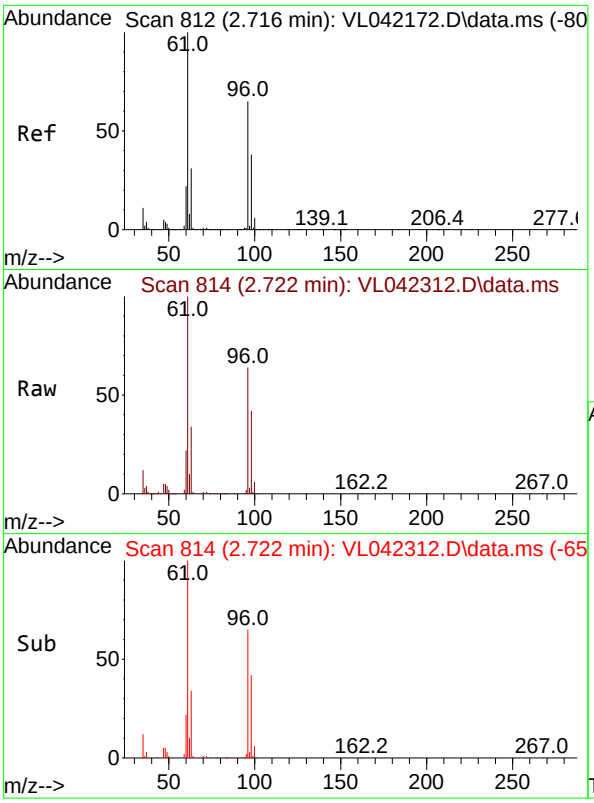



#30
Cyclohexane
Concen: 9.100 ppbv
RT: 3.858 min Scan# 1165
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 84 Resp: 203526

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 129.8 | 102.8 | 154.2 |
| 41 | 89.4 | 66.5 | 99.7 |

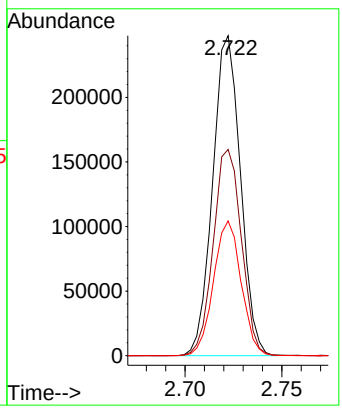





#31
cis-1,2-Dichloroethene
Concen: 9.454 ppbv
RT: 2.722 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 61 Resp: 24719

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 64.4 | 51.8 | 77.8 |
| 98 | 42.0 | 30.6 | 46.0 |

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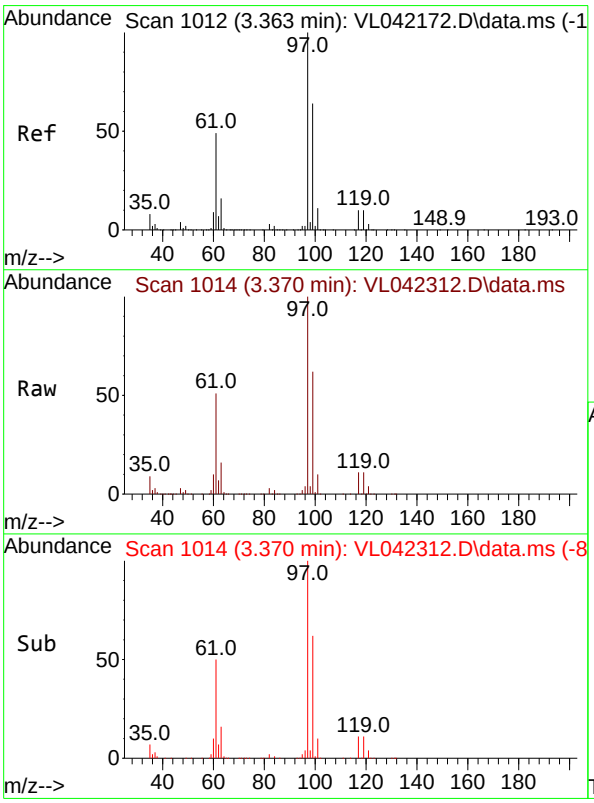
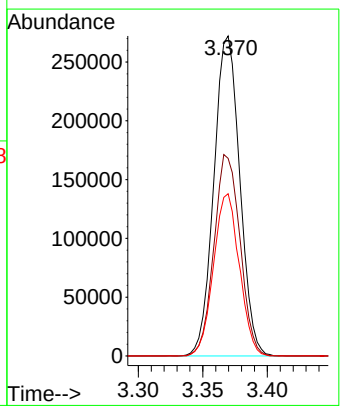
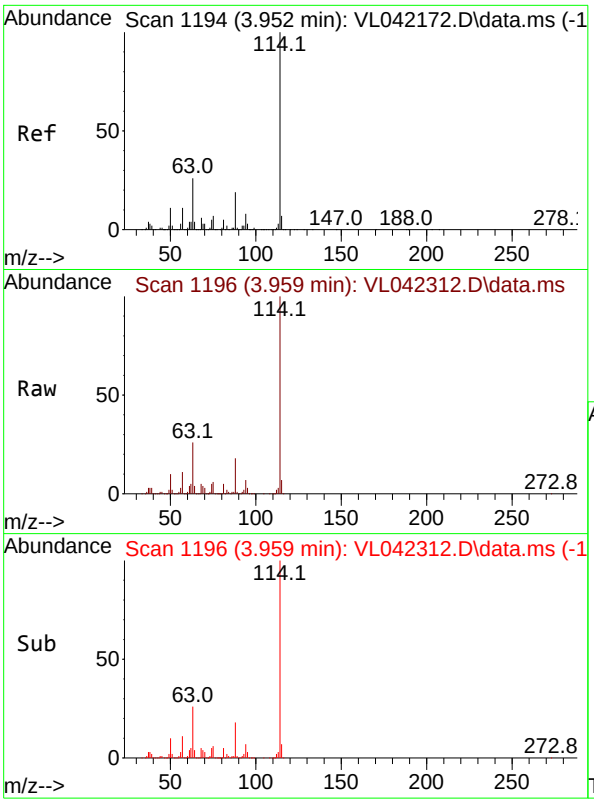



#32
1,1,1-Trichloroethane
Concen: 8.813 ppbv
RT: 3.370 min Scan# 1014
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 97 Resp: 380312

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.2 | 51.5 | 77.3 |
| 61 | 50.6 | 38.7 | 58.1 |

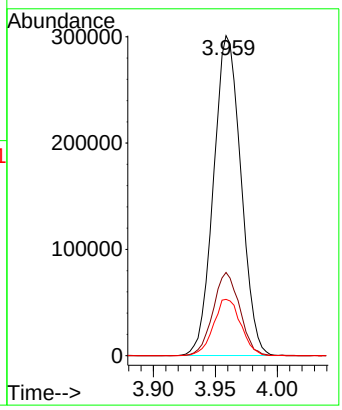





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:114 Resp: 46374

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.5 | 20.7 | 31.1 |
| 88 | 17.7 | 15.0 | 22.4 |

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MSVOA_L
**ClientSampleId :**
VSTDCCC010

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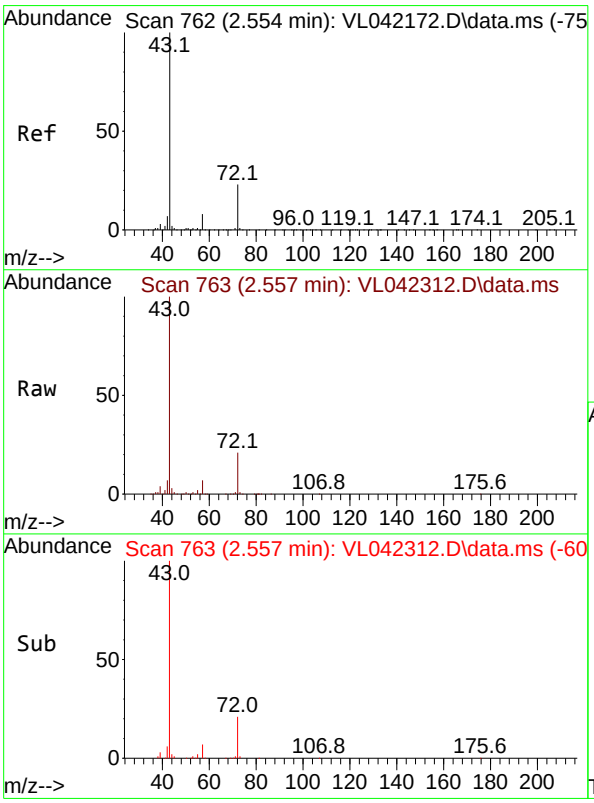
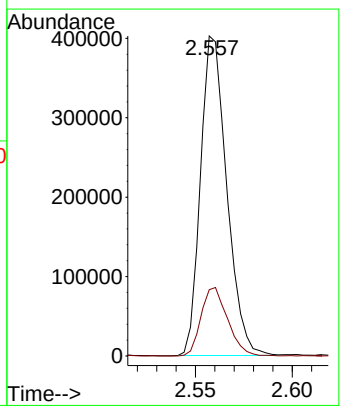
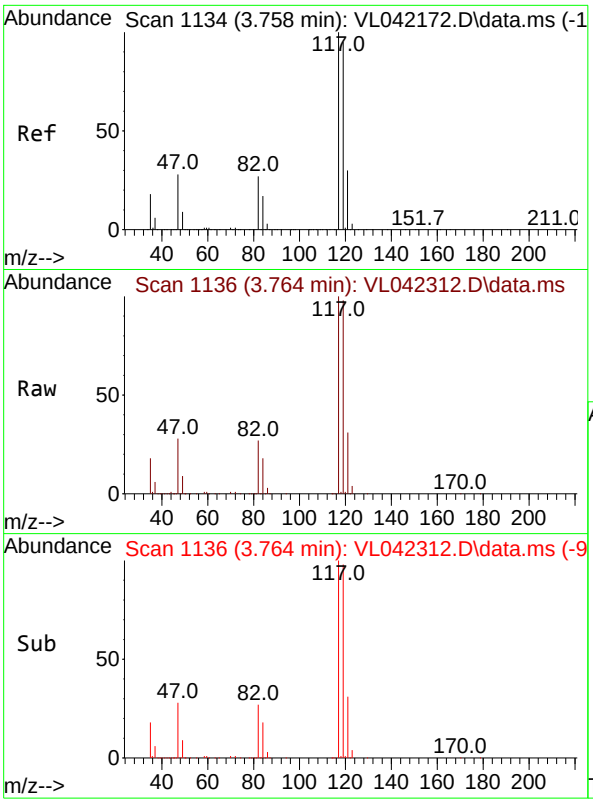



#34
2-Butanone
Concen: 11.321 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 43 Resp: 380682

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 21.7 | 18.2 | 27.2 |

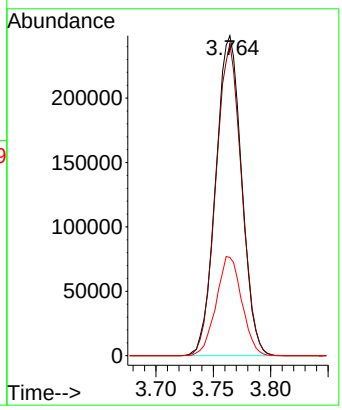





#35
Carbon Tetrachloride
Concen: 10.769 ppbv
RT: 3.764 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:117 Resp: 39014

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 97.6 | 76.2 | 114.2 |
| 121 | 30.7 | 24.2 | 36.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
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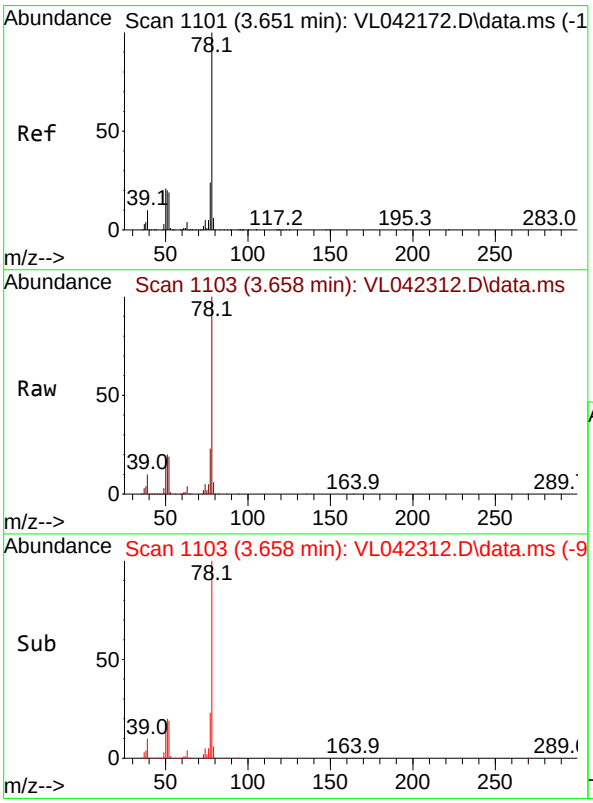
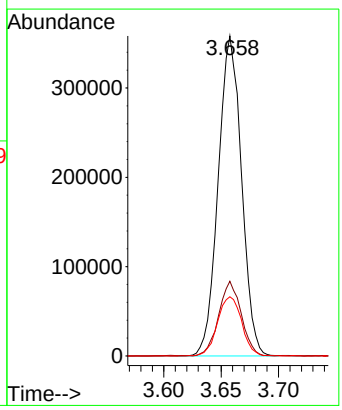
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

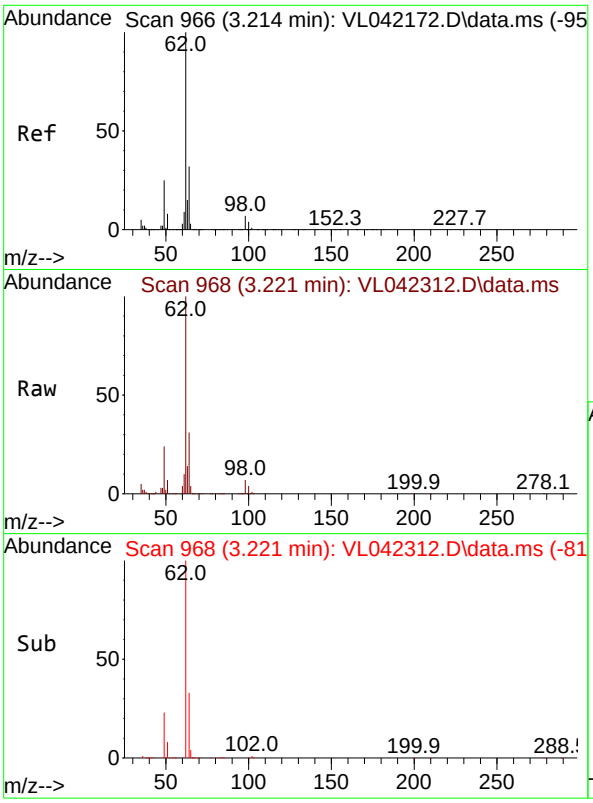



#36
Benzene
Concen: 11.012 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 78 Resp: 506278

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.3 | 19.1 | 28.7 |
| 50 | 18.5 | 16.6 | 24.8 |






#37
1,2-Dichloroethane
Concen: 11.101 ppbv
RT: 3.221 min Scan# 9
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 62 Resp: 29218

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 6.6 | 5.4 | 8.2 |

**Instrument :**
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**ClientSampleId :**
VSTDCCC010

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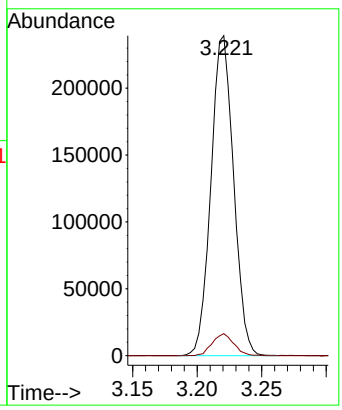
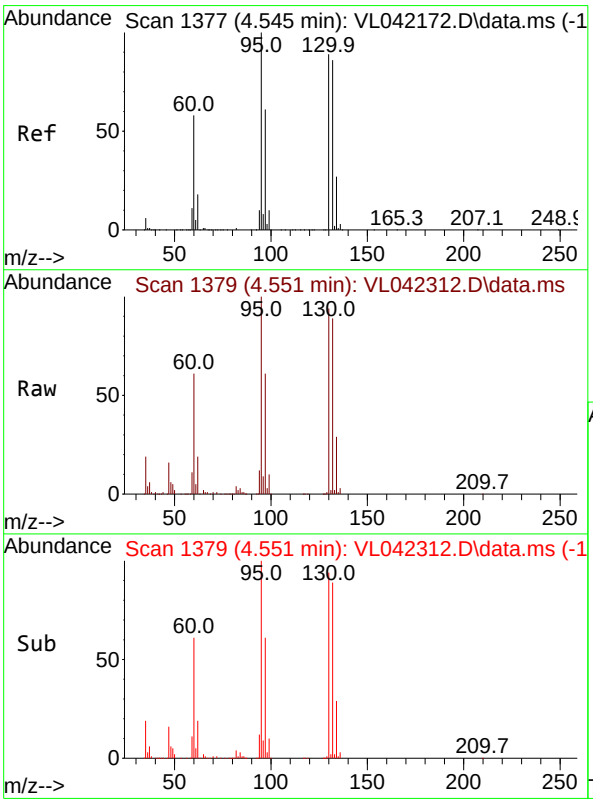
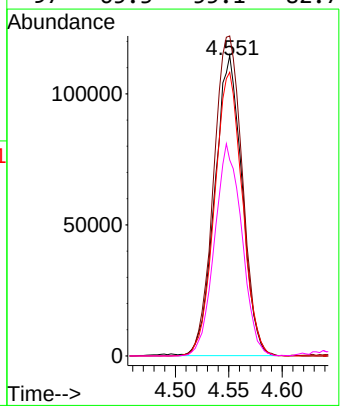


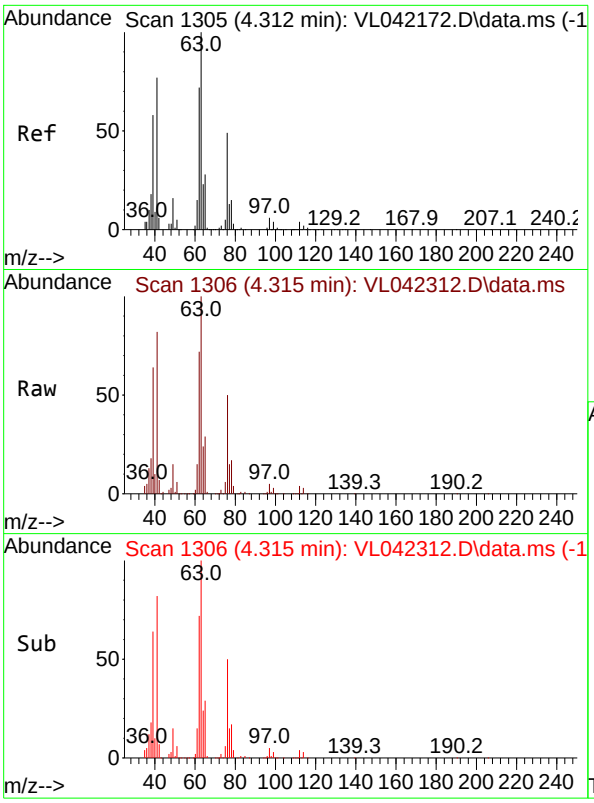




#38
Trichloroethene
Concen: 10.591 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:130 Resp: 203156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 106.6 | 89.8 | 134.8 |
| 132 | 94.5 | 77.4 | 116.2 |
| 97 | 65.3 | 55.1 | 82.7 |

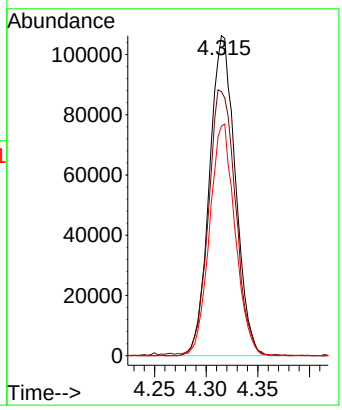





#39
1,2-Dichloropropane
Concen: 11.079 ppbv
RT: 4.315 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 63 Resp: 18549

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 82.2 | 61.7 | 92.5 |
| 62 | 71.8 | 57.6 | 86.4 |




**Instrument :**
MSVOA_L
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VSTDCCC010

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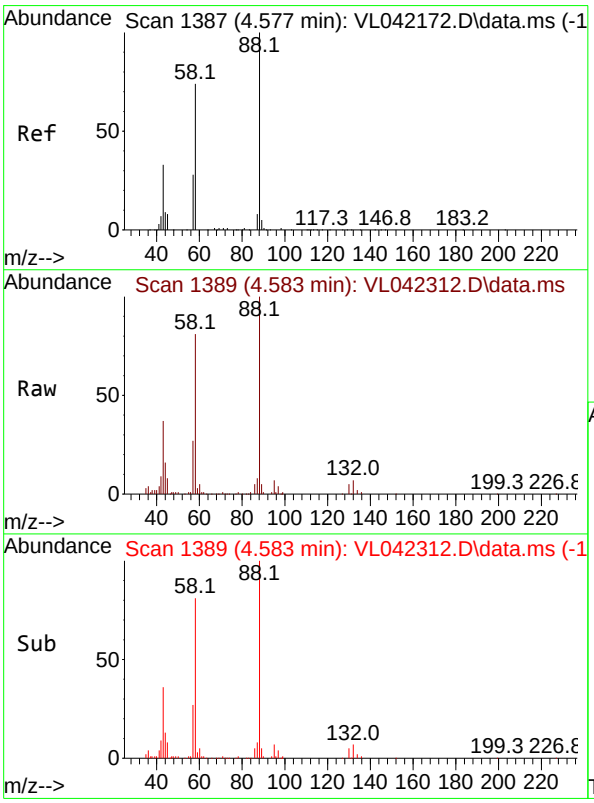
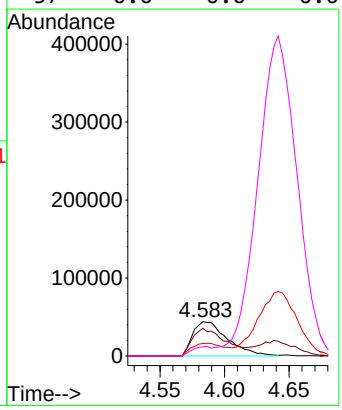
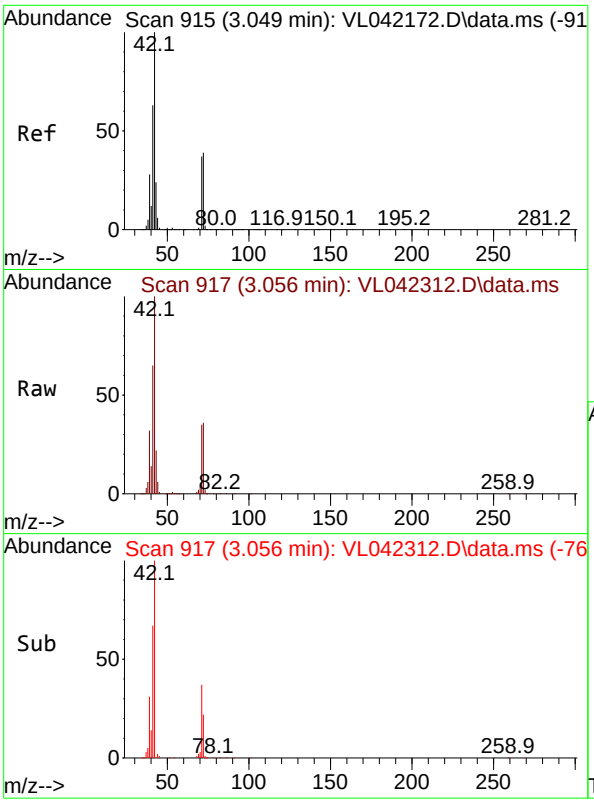



#40
1,4-Dioxane
Concen: 9.270 ppbv
RT: 4.583 min Scan# 1389
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 88 Resp: 82376

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 79.1 | 62.7 | 94.1 |
| 43 | 30.6 | 23.0 | 34.4 |
| 57 | 0.0 | 0.0 | 0.0 |

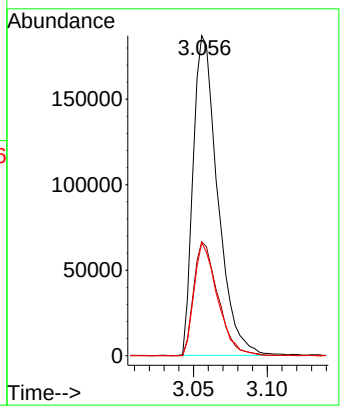





#41
Tetrahydrofuran
Concen: 11.188 ppbv
RT: 3.056 min Scan# 9
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 42 Resp: 21664

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 35.3 | 31.4 | 47.0 |
| 71 | 33.8 | 30.2 | 45.4 |




**Instrument :**
MSVOA_L
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VSTDCCC010

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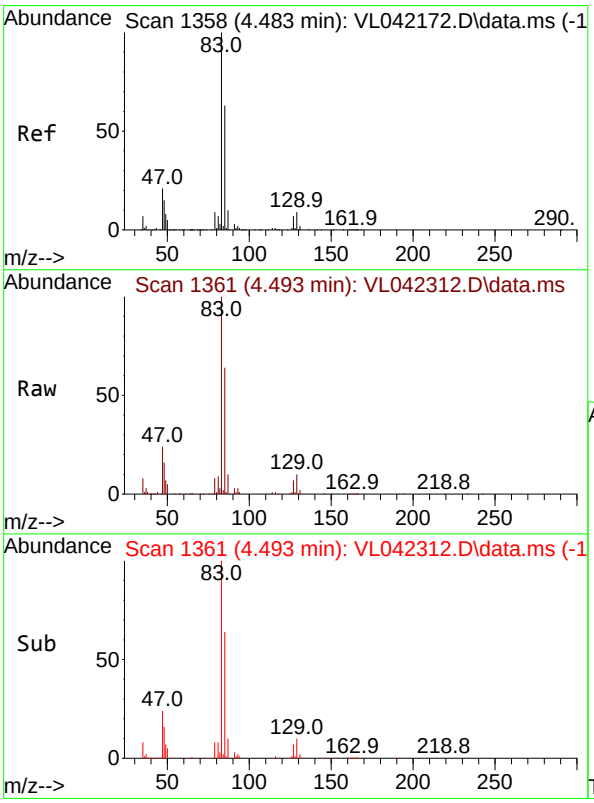
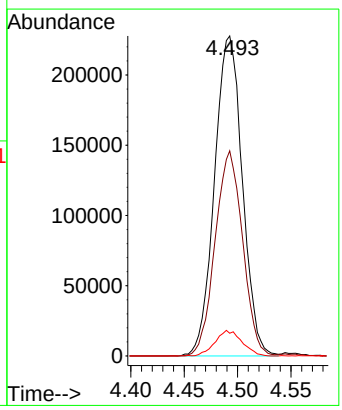
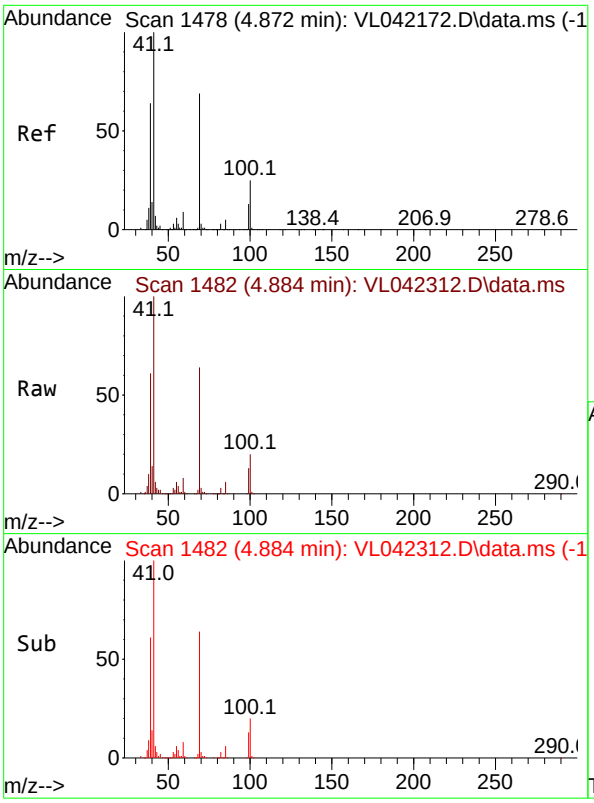



#42
Bromodichloromethane
Concen: 11.389 ppbv
RT: 4.493 min Scan# 1361
Delta R.T. 0.009 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 83 Resp: 413250

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.1 | 50.5 | 75.7 |
| 127 | 7.1 | 5.9 | 8.9 |

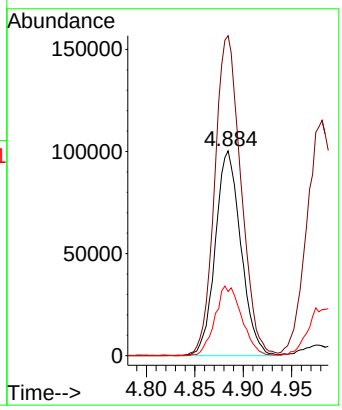





#43
Methyl Methacrylate
Concen: 9.478 ppbv
RT: 4.884 min Scan# 14
Delta R.T. 0.013 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 69 Resp: 18447

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 160.3 | 123.8 | 185.6 |
| 100 | 35.6 | 28.4 | 42.6 |




**Instrument :**
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VSTDCCC010

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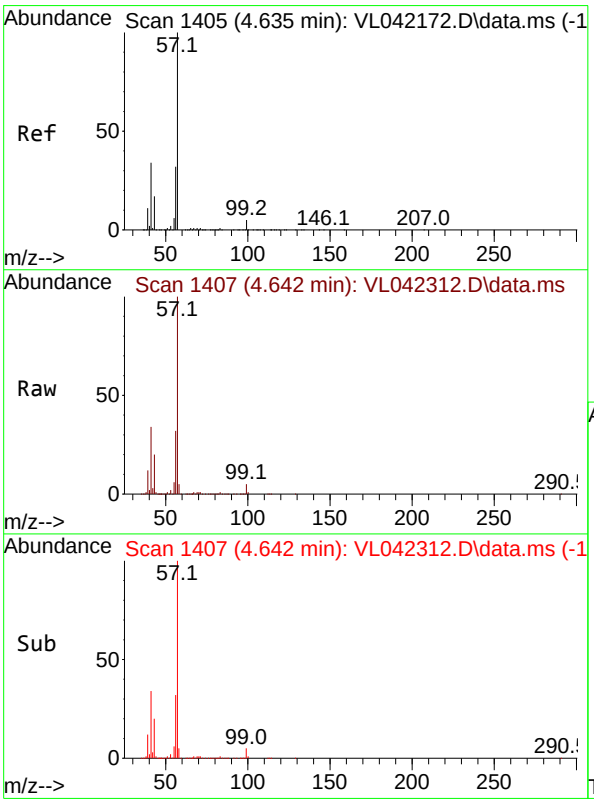
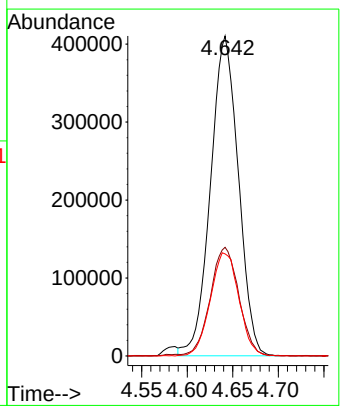
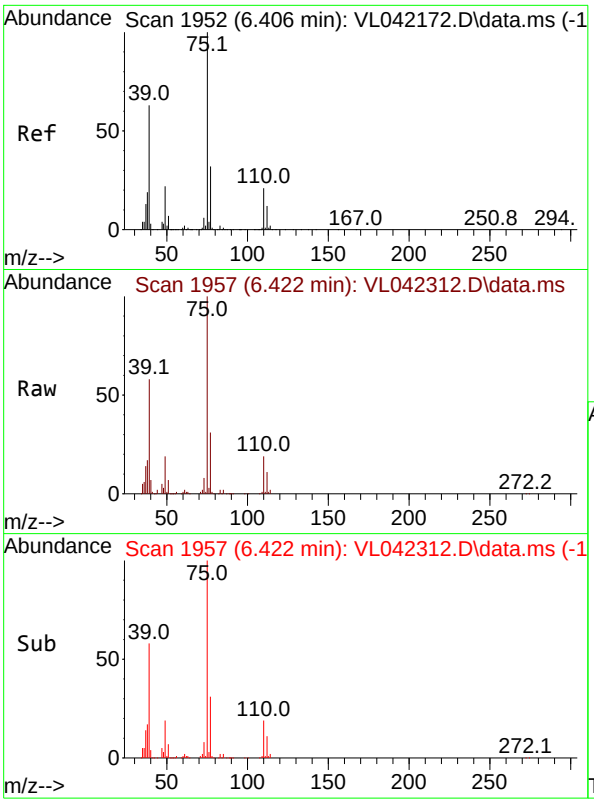



#44
2,2,4-Trimethylpentane
Concen: 11.235 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 57 Resp: 872871

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 35.1 | 26.8 | 40.2 |
| 56 | 33.1 | 25.6 | 38.4 |

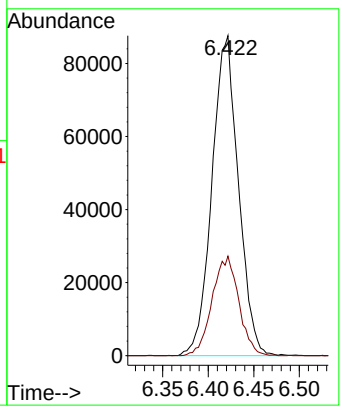





#45
t-1,3-Dichloropropene
Concen: 8.467 ppbv
RT: 6.422 min Scan# 1
Delta R.T. 0.016 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 75 Resp: 17680

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.1 | 26.0 | 39.0 |




**Instrument :**
MSVOA_L
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VSTDCCC010

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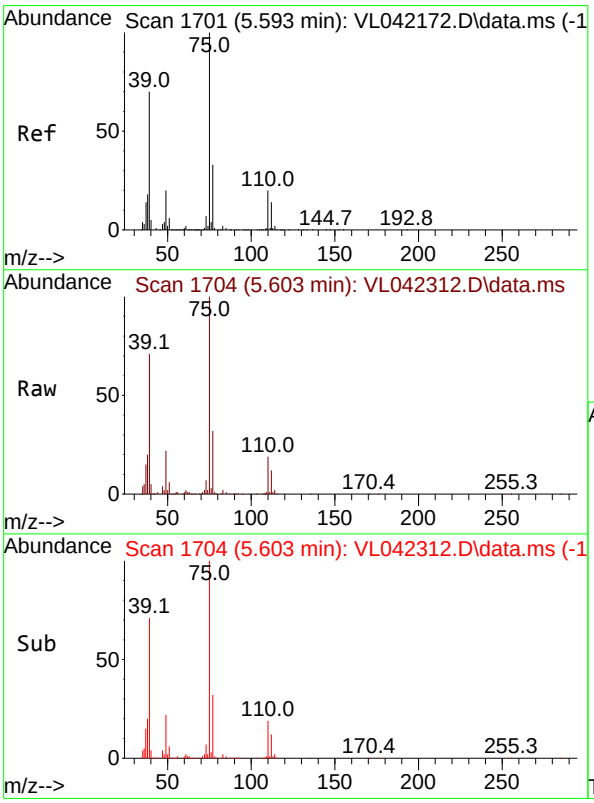
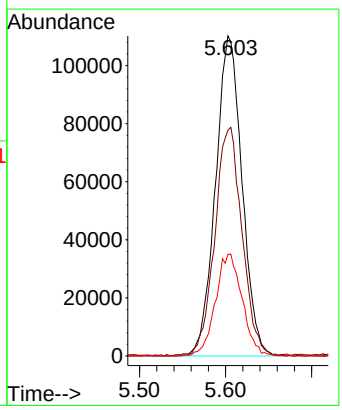
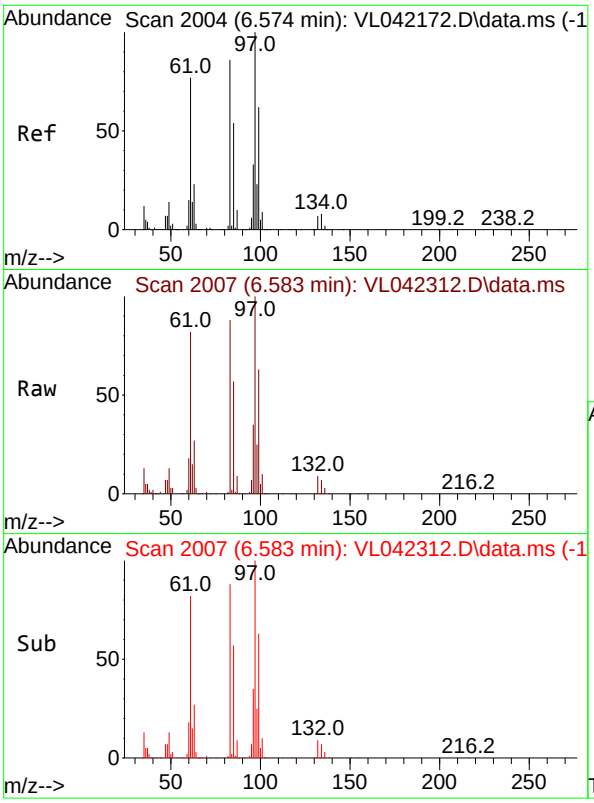



#46
cis-1,3-Dichloropropene
Concen: 9.222 ppbv
RT: 5.603 min Scan# 1704
Delta R.T. 0.009 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 75 Resp: 236039

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 39 | 70.2 | 55.8 | 83.6 |
| 77 | 31.7 | 26.0 | 39.0 |

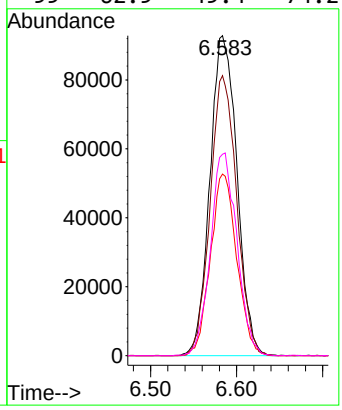





#47
1,1,2-Trichloroethane
Concen: 11.463 ppbv
RT: 6.583 min Scan# 2
Delta R.T. 0.009 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 97 Resp: 20289

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 87.5 | 69.2 | 103.8 |
| 85 | 56.7 | 43.1 | 64.7 |
| 99 | 62.9 | 49.4 | 74.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

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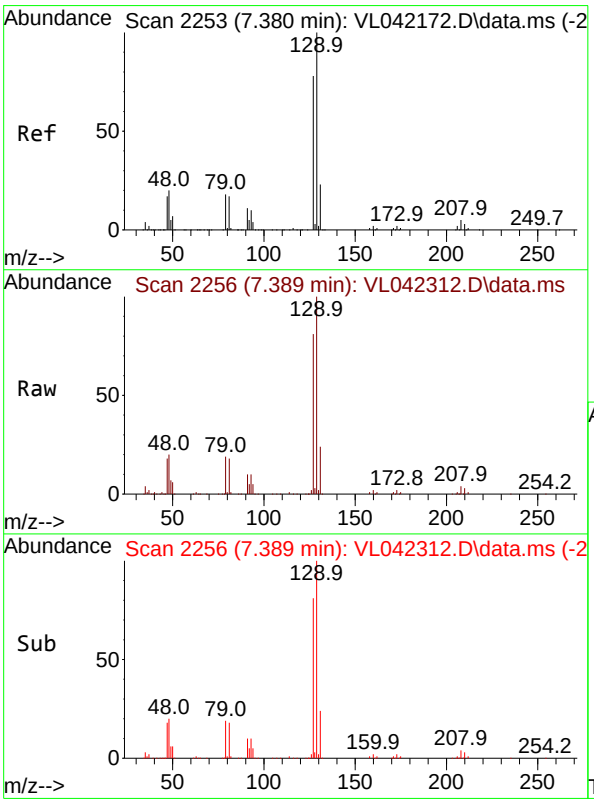
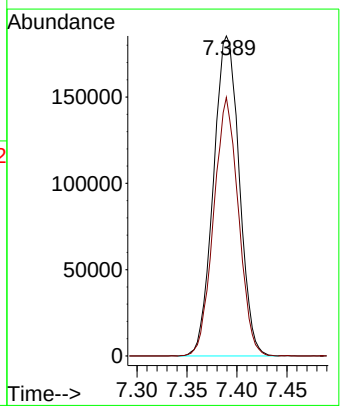
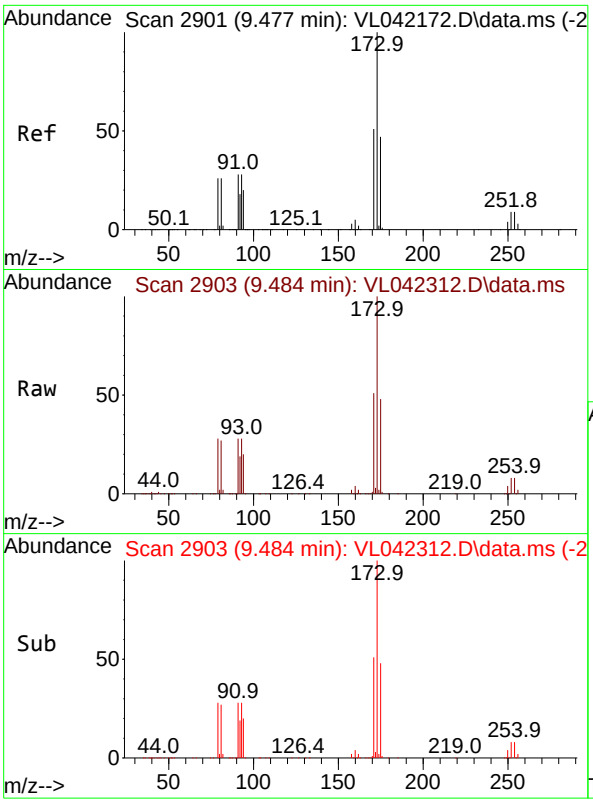



#48
Dibromochloromethane
Concen: 11.106 ppbv
RT: 7.389 min Scan# 2256
Delta R.T. 0.009 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:129 Resp: 333128

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.4 | 39.1 | 117.2 |

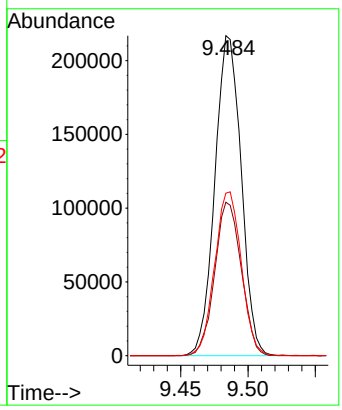





#49
Bromoform
Concen: 10.935 ppbv
RT: 9.484 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:173 Resp: 29448

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.5 | 38.6 | 57.8 |
| 171 | 51.8 | 41.8 | 62.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

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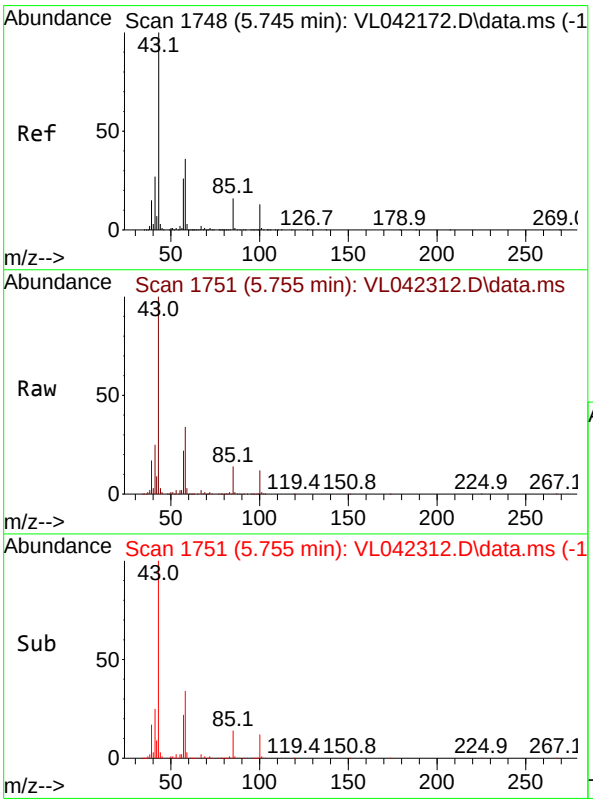
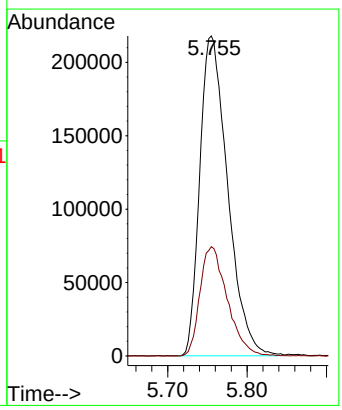
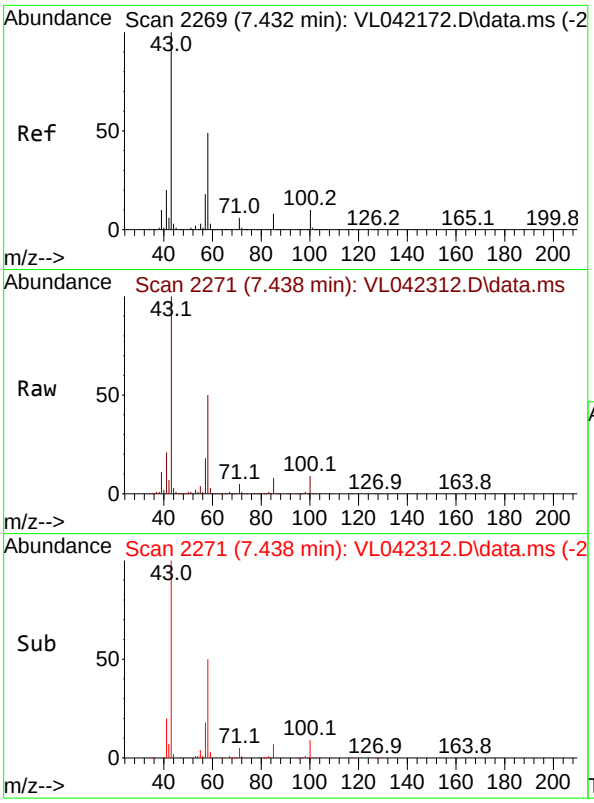



#50
4-Methyl-2-Pentanone
Concen: 9.980 ppbv
RT: 5.755 min Scan# 1751
Delta R.T. 0.009 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 43 Resp: 531851

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 33.5 | 29.0 | 43.6 |






#51
2-Hexanone
Concen: 9.689 ppbv
RT: 7.438 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 43 Resp: 42403

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 45.7 | 39.7 | 59.5 |
| 98 | 0.9 | 0.1 | 0.1 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
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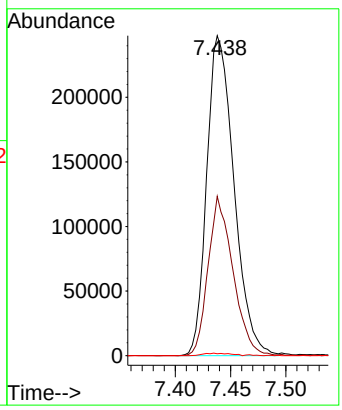
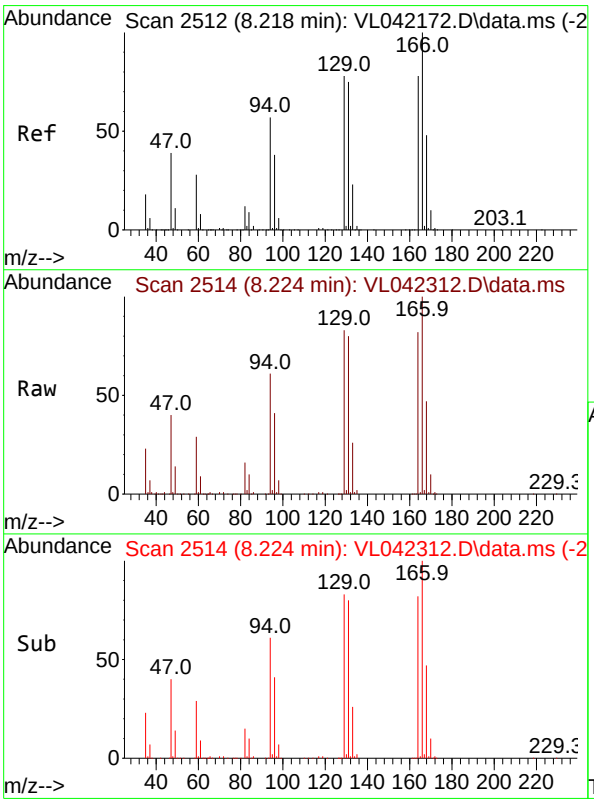
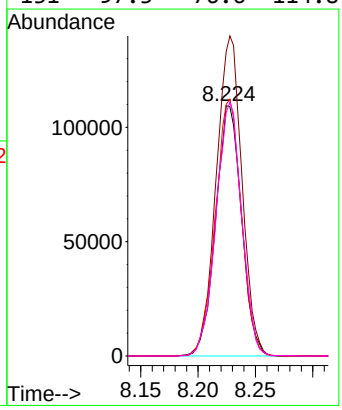


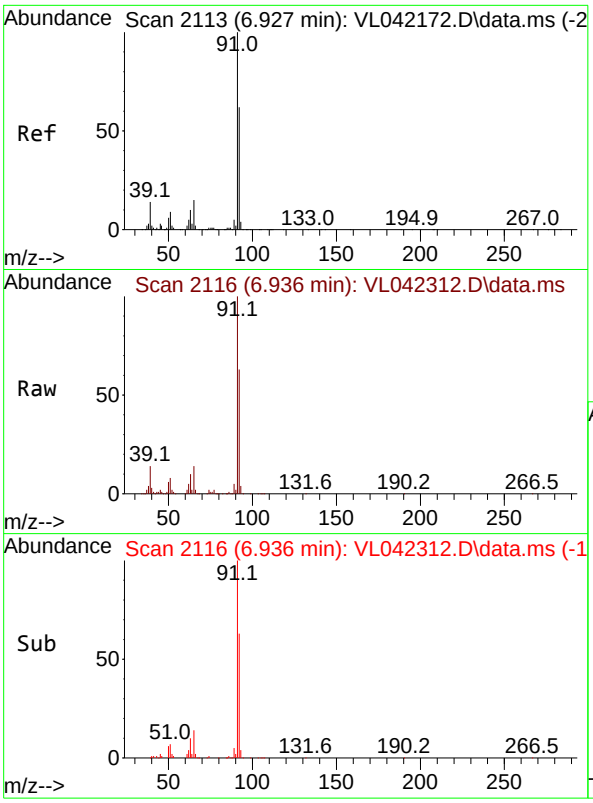




#52
Tetrachloroethene
Concen: 9.378 ppbv
RT: 8.224 min Scan# 2514
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:164 Resp: 170989

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 121.6 | 102.5 | 153.7 |
| 129 | 100.6 | 79.8 | 119.8 |
| 131 | 97.3 | 76.6 | 114.8 |

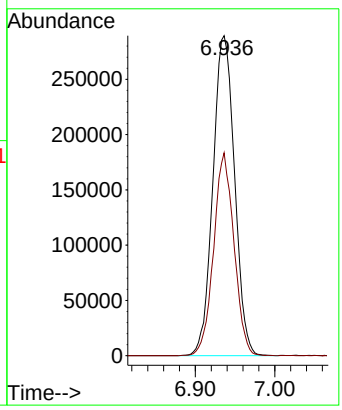





#53
Toluene
Concen: 10.048 ppbv
RT: 6.936 min Scan# 21
Delta R.T. 0.009 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 91 Resp: 54757

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 59.5 | 48.4 | 72.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
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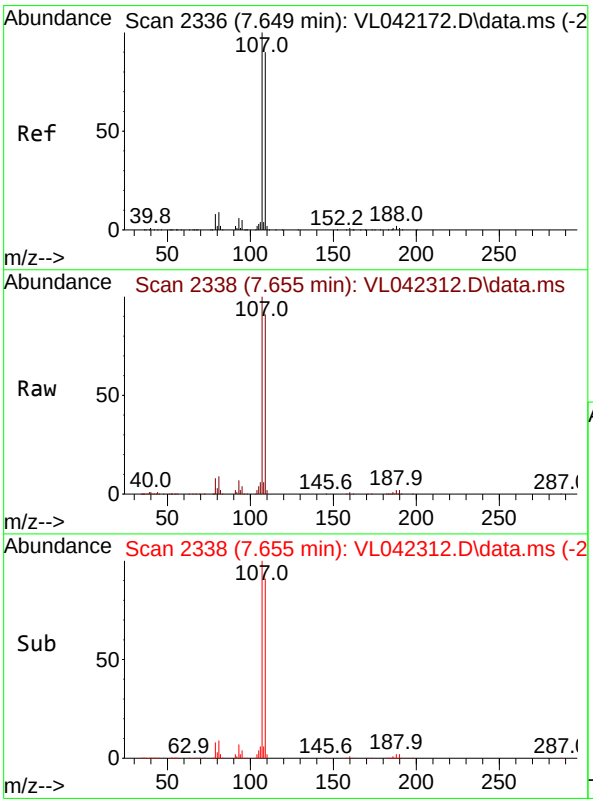
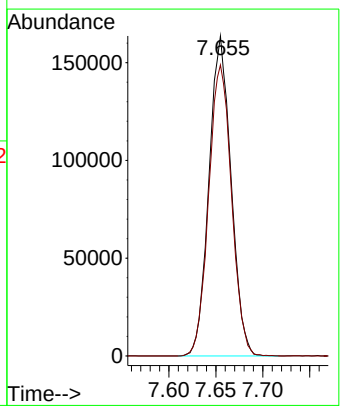
Supervised By :Mahesh Dadoda 04/17/2025

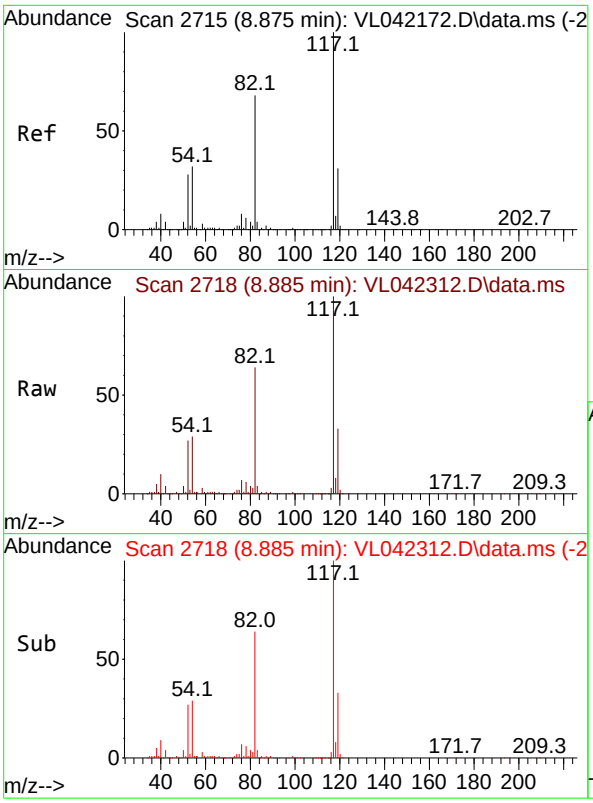



#54
1,2-Dibromoethane
Concen: 10.831 ppbv
RT: 7.655 min Scan# 2338
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:107 Resp: 267225

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 91.0 | 72.2 | 108.4 |

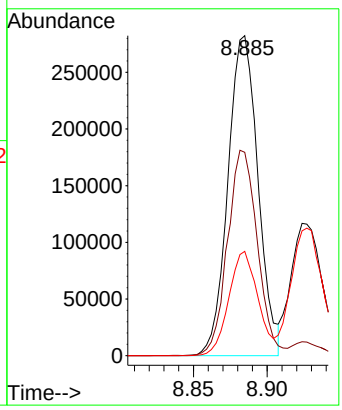





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.009 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:117 Resp: 401340

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 67.7 | 55.8 | 83.6 |
| 119 | 31.5 | 25.5 | 38.3 |




**Instrument :**
MSVOA_L
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VSTDCCC010

**Manual Integrations**
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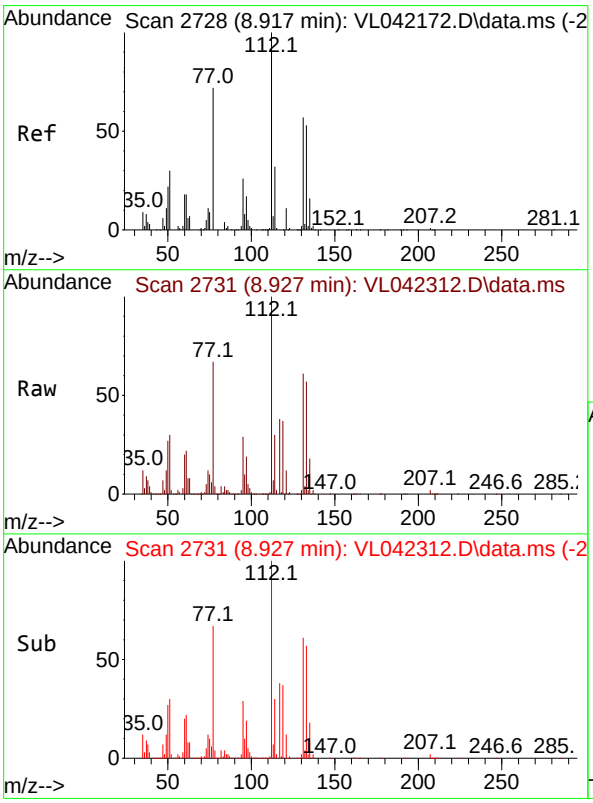
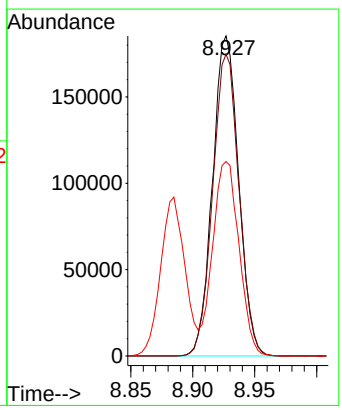
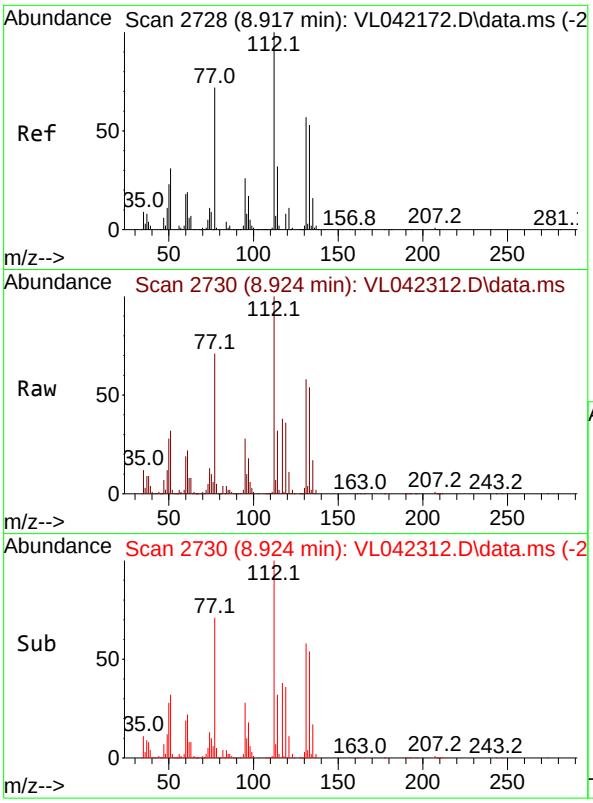



#56
1,1,1,2-Tetrachloroethane
Concen: 12.283 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. 0.009 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:131 Resp: 271350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.3 | 76.6 | 114.8 |
| 119 | 62.7 | 49.8 | 74.6 |

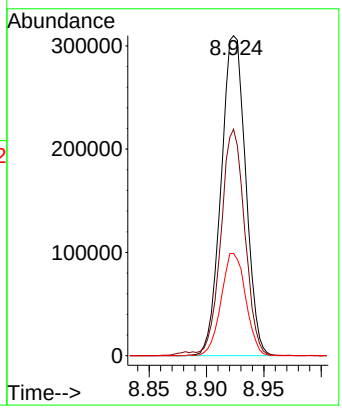





#57
Chlorobenzene
Concen: 12.099 ppbv
RT: 8.924 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:112 Resp: 46059

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 70.7 | 58.2 | 87.2 |
| 114 | 32.0 | 29.1 | 35.5 |




**Instrument :**
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VSTDCCC010

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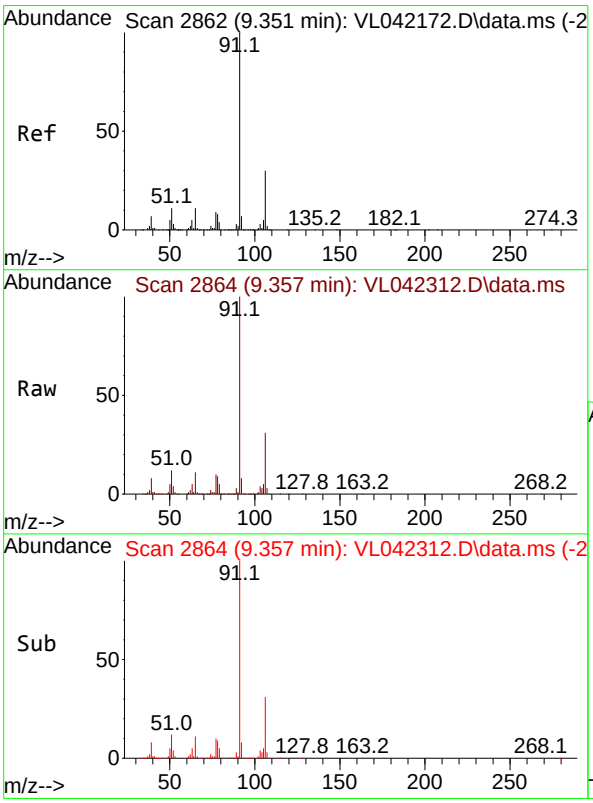
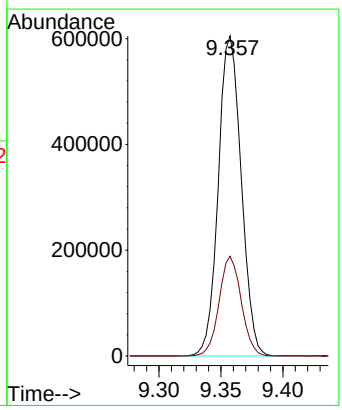
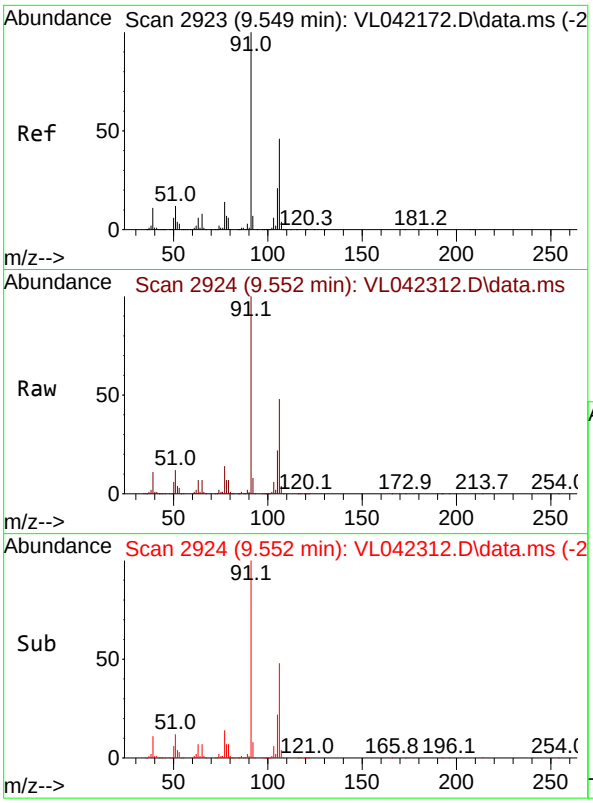



#58
Ethyl Benzene
Concen: 10.931 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 91 Resp: 779227

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.1 | 24.2 | 36.2 |

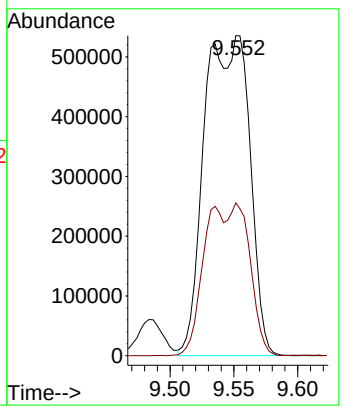





#59
m/p-Xylene
Concen: 23.249 ppbv m
RT: 9.552 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 91 Resp: 132346

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 47.1 | 36.4 | 54.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

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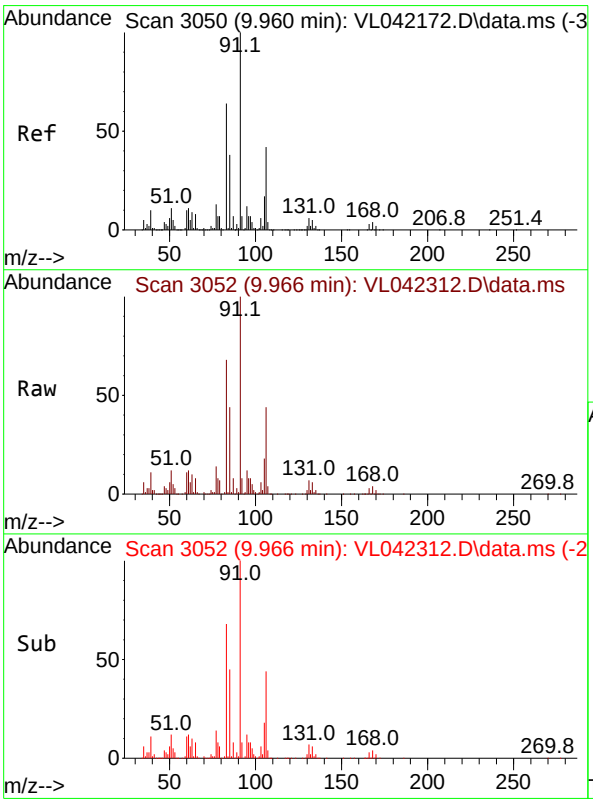
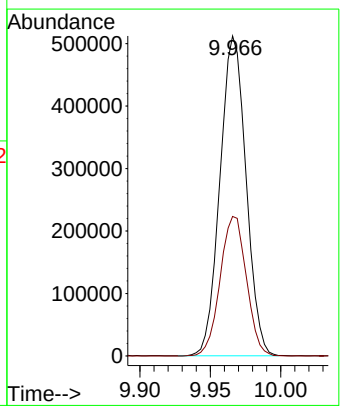
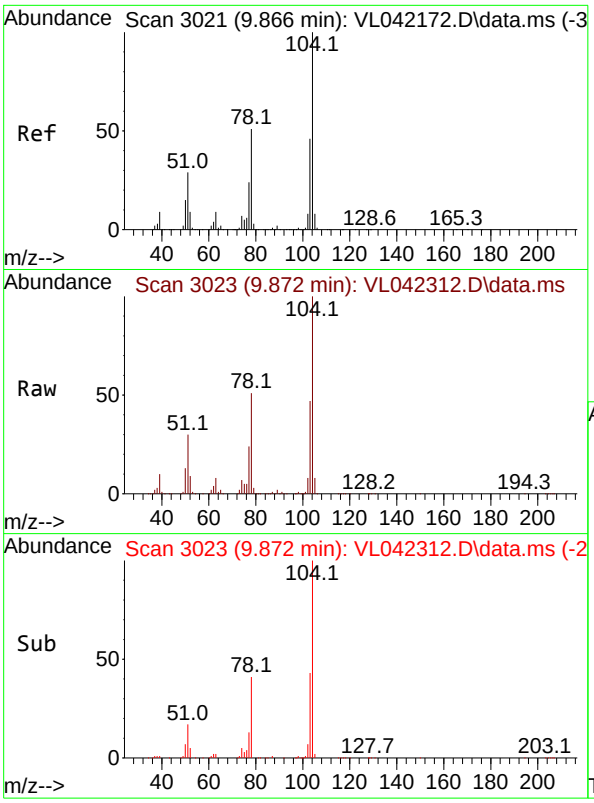



#60
o-Xylene
Concen: 11.567 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 91 Resp: 660065

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 44.0 | 20.8 | 62.5 |






#61
Styrene
Concen: 10.320 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:104 Resp: 29135

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 50.6 | 41.8 | 62.6 |
| 103 | 46.3 | 37.0 | 55.4 |

**Instrument :**
MSVOA_L
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VSTDCCC010

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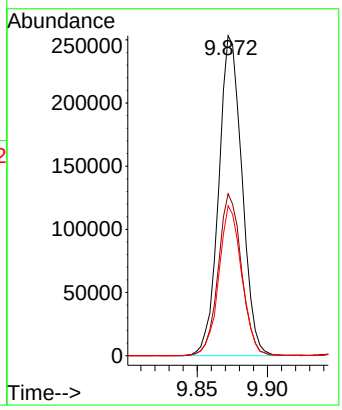
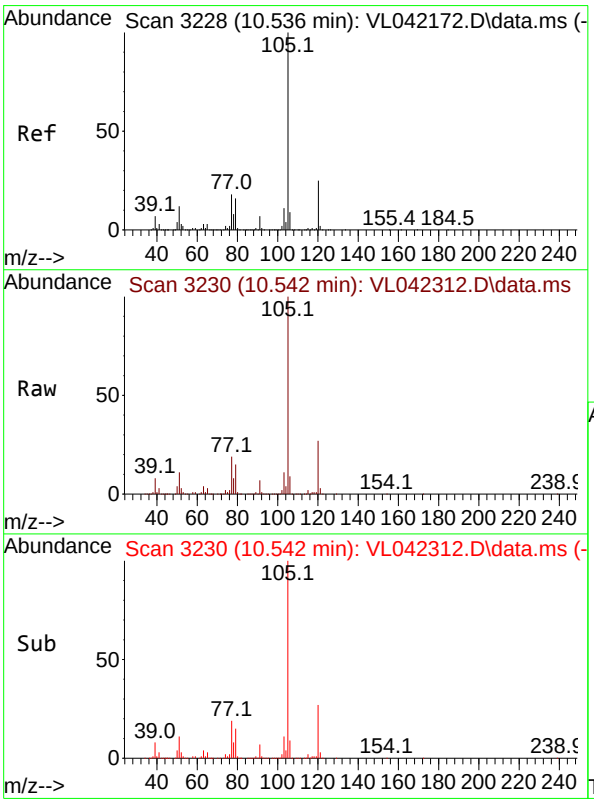
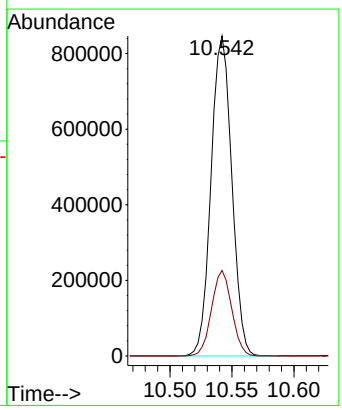


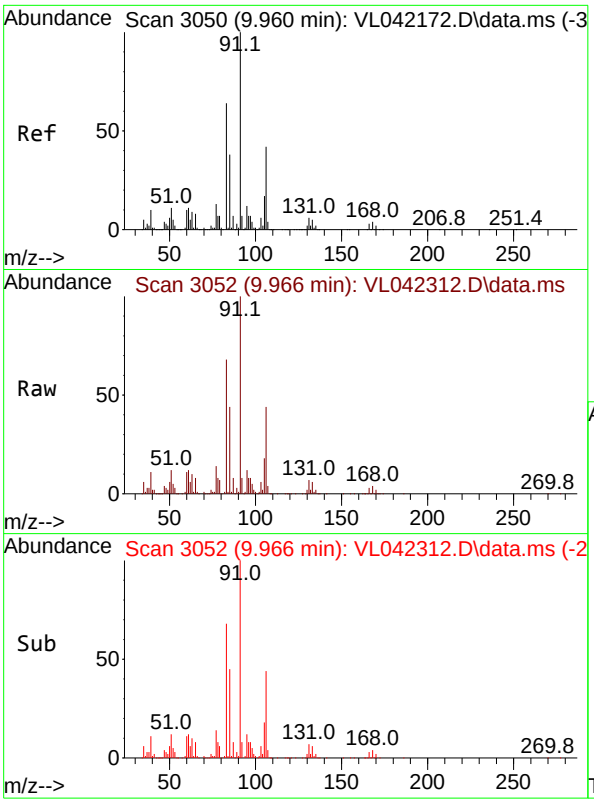




#62
Isopropylbenzene
Concen: 11.582 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:105 Resp: 988337

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.9 | 19.9 | 29.9 |






#63
1,1,2,2-Tetrachloroethane
Concen: 12.873 ppbv
RT: 9.966 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 83 Resp: 44634

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.6 | 4.8 | 14.4 |
| 85 | 64.0 | 32.5 | 97.5 |

**Instrument :**
MSVOA_L
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VSTDCCC010

**Manual Integrations**
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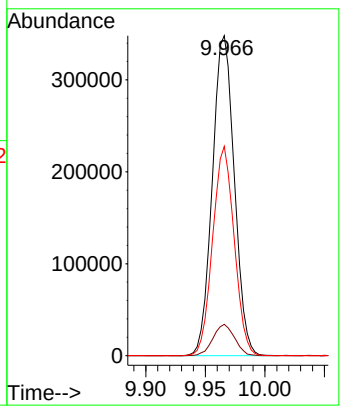
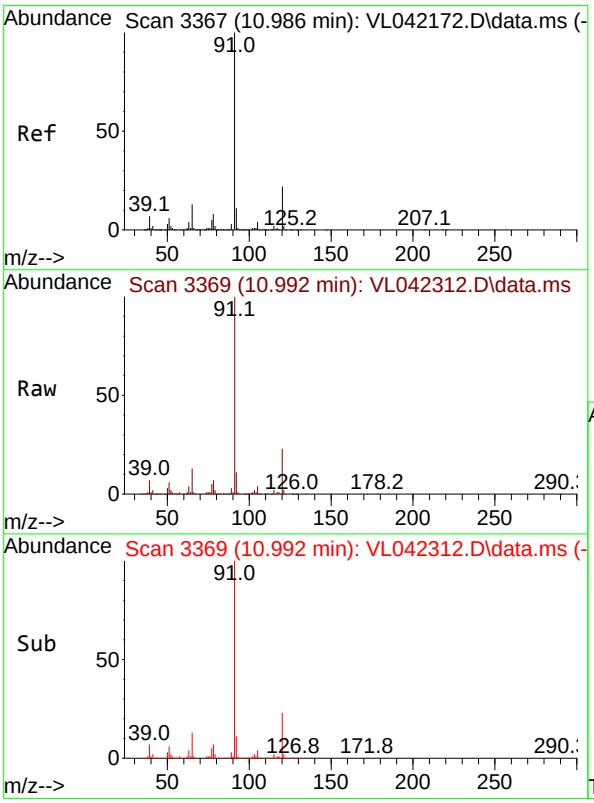
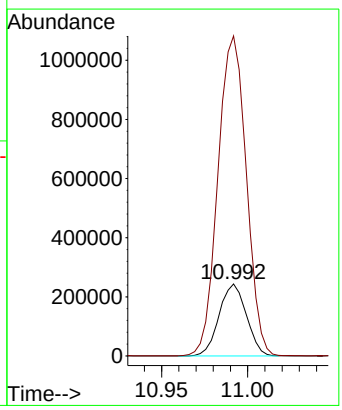


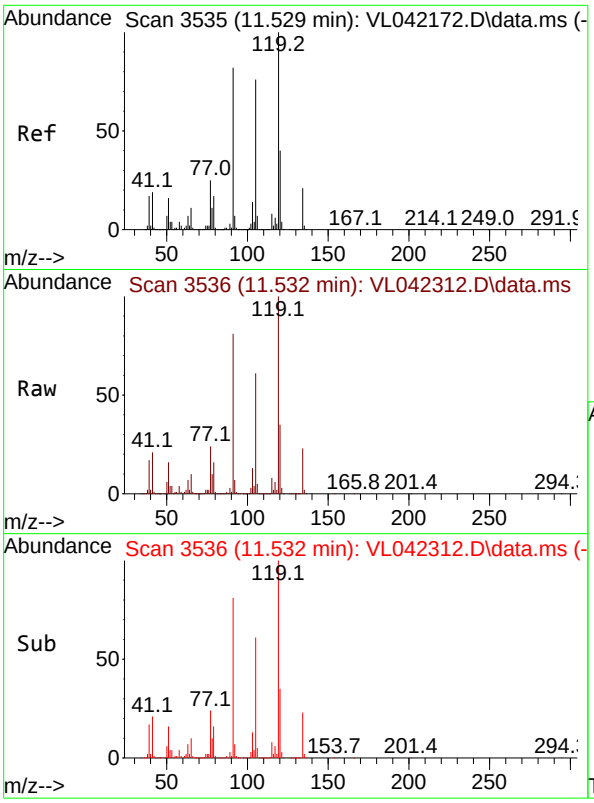




#64
n-propylbenzene
Concen: 12.231 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:120 Resp: 268681

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 463.6 | 376.9 | 565.3 |

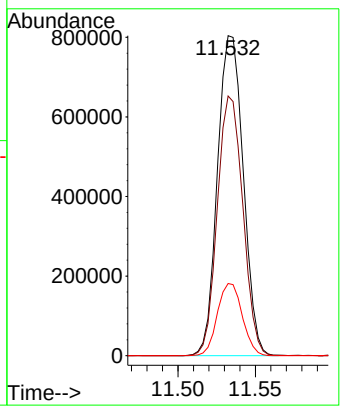





#65
tert-Butylbenzene
Concen: 11.820 ppbv
RT: 11.532 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:119 Resp: 93285

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 80.3 | 66.0 | 99.0 |
| 134 | 21.7 | 16.7 | 25.1 |

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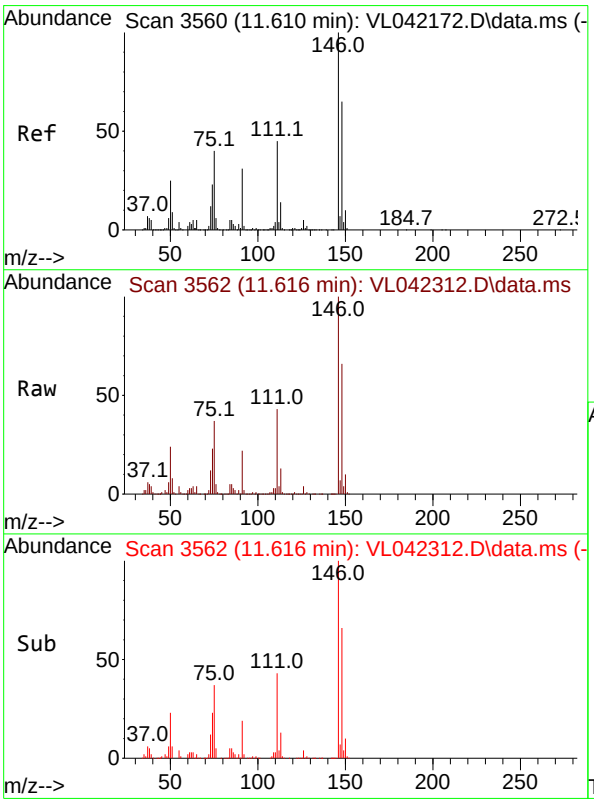
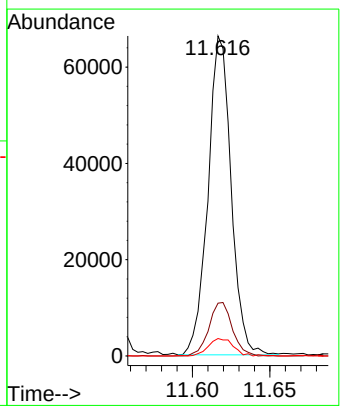
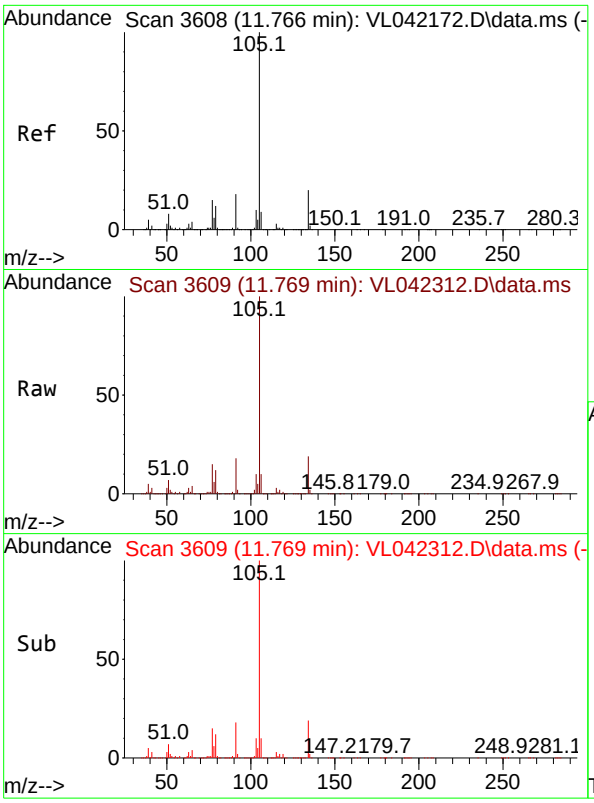



#66
Benzyl Chloride
Concen: 8.201 ppbv
RT: 11.616 min Scan# 3562
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 91 Resp: 68675

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 16.9 | 13.8 | 20.6 |
| 128 | 6.2 | 4.5 | 6.7 |

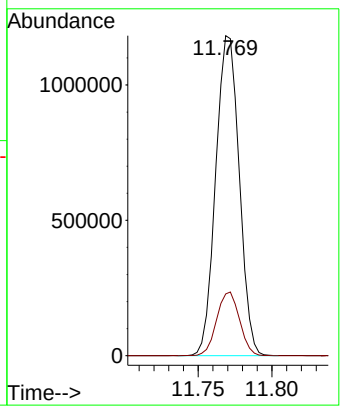





#67
sec-Butylbenzene
Concen: 11.942 ppbv
RT: 11.769 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:105 Resp: 131004

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.4 | 15.5 | 23.3 |

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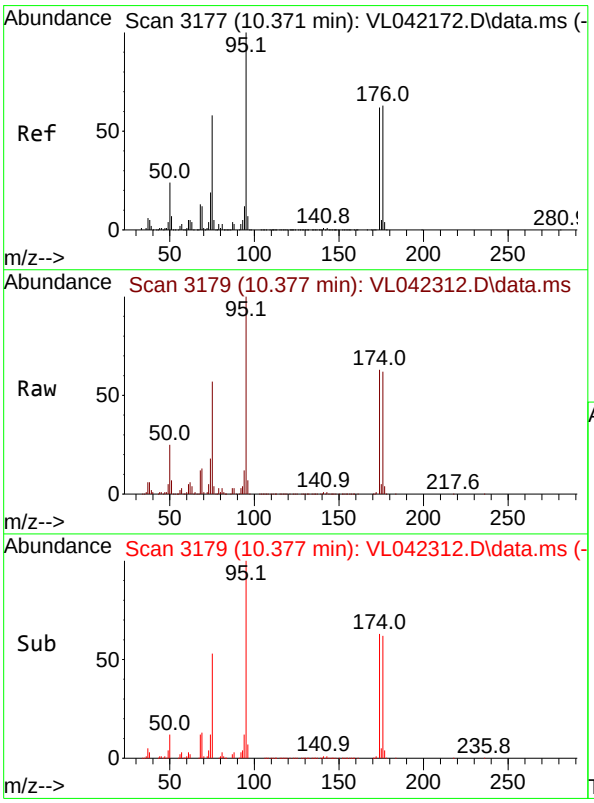
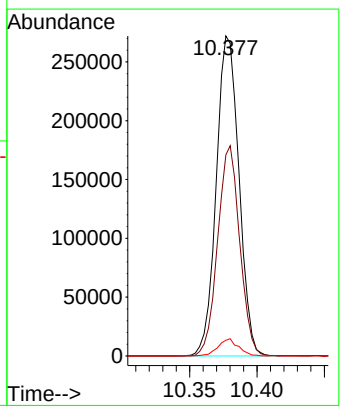
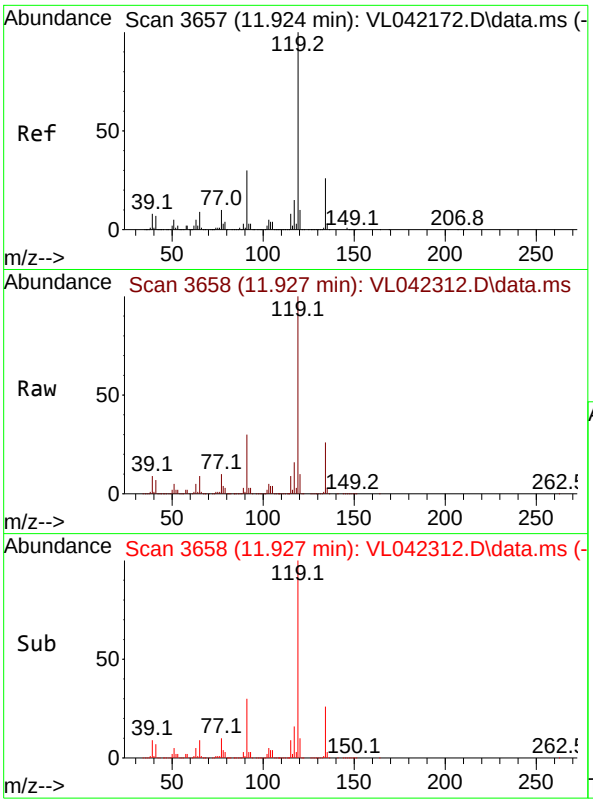



#68
1-Bromo-4-Fluorobenzene
Concen: 9.655 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 95 Resp: 318204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 64.0 | 50.6 | 76.0 |
| 175 | 4.9 | 3.8 | 5.6 |

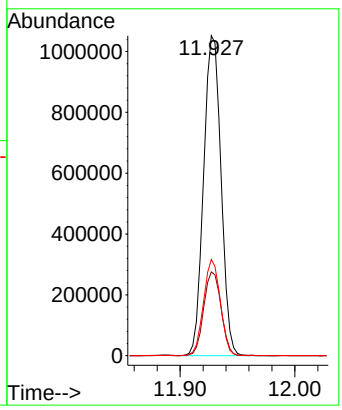





#69
p-Isopropyltoluene
Concen: 11.720 ppbv
RT: 11.927 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:119 Resp: 110704

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.2 | 20.4 | 30.6 |
| 91 | 29.0 | 23.7 | 35.5 |




**Instrument :**
MSVOA_L
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VSTDCCC010

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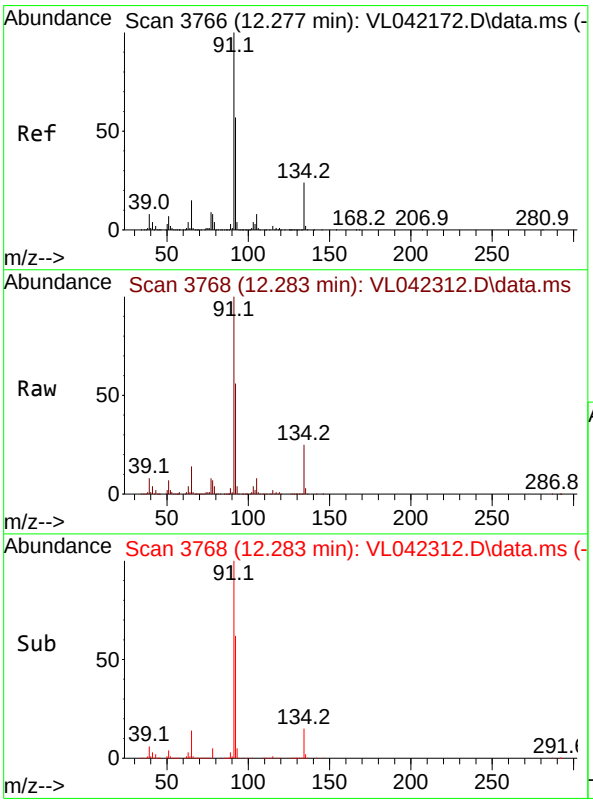
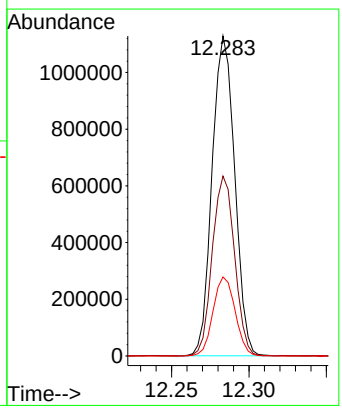
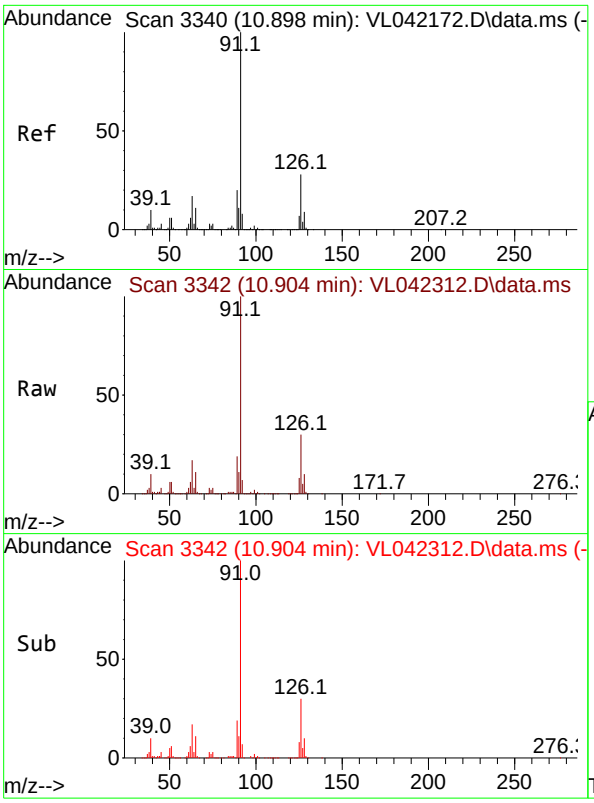



#70
n-Butylbenzene
Concen: 11.848 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 91 Resp: 1144571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 55.6 | 44.9 | 67.3 |
| 134 | 24.2 | 19.2 | 28.8 |

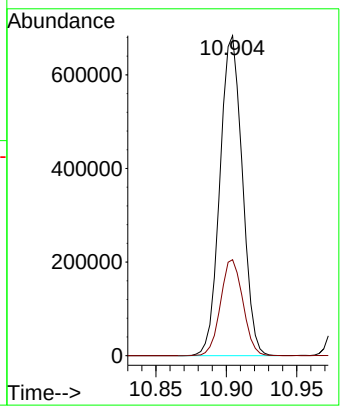





#71
2-Chlorotoluene
Concen: 11.423 ppbv
RT: 10.904 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 91 Resp: 75656

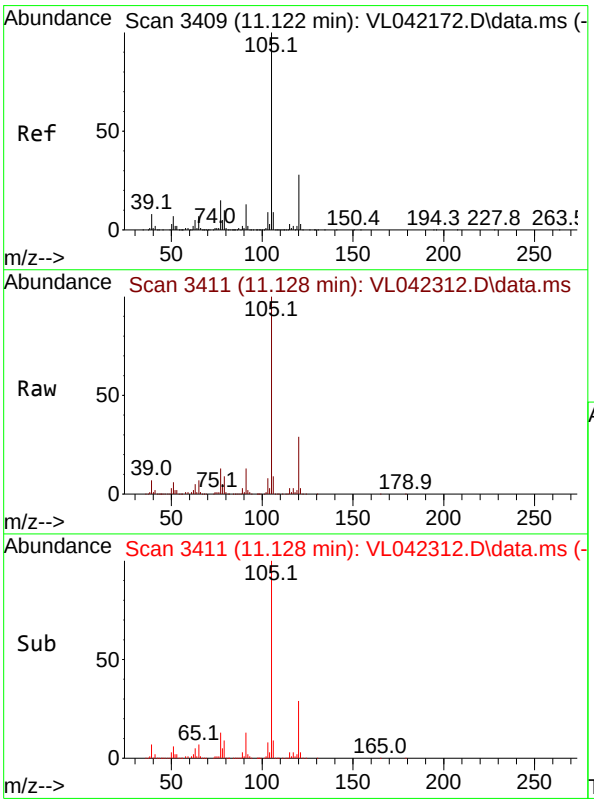
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 29.9 | 11.6 | 46.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
**APPROVED**

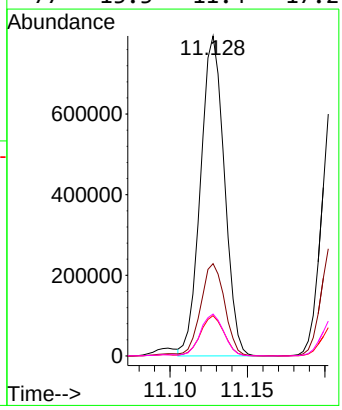
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

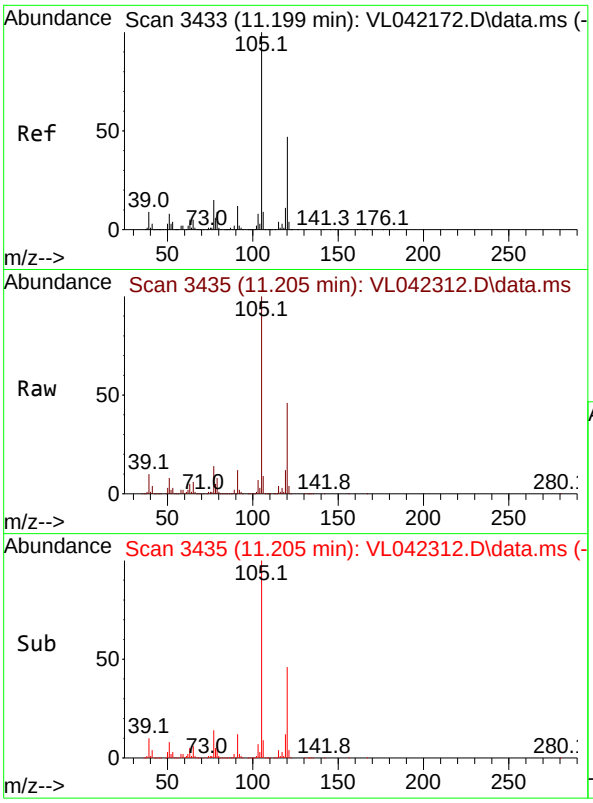



#72
4-Ethyltoluene
Concen: 11.932 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:105 Resp: 847821

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 29.7 | 23.4 | 35.0 |
| 91 | 13.0 | 10.3 | 15.5 |
| 77 | 13.3 | 11.4 | 17.2 |

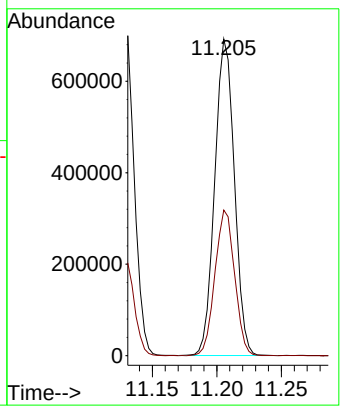





#73
1,3,5-Trimethylbenzene
Concen: 11.762 ppbv
RT: 11.205 min Scan# 34
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:105 Resp: 72988

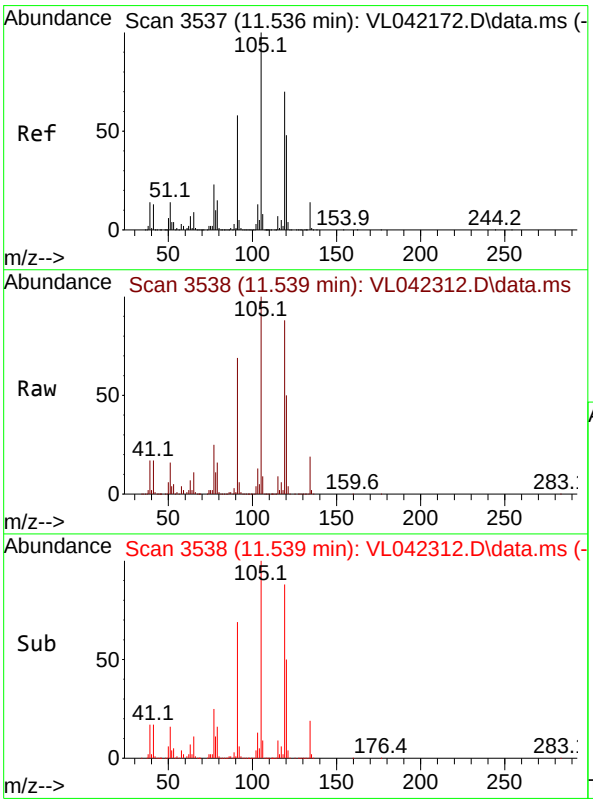
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.0 | 37.4 | 56.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
**APPROVED**

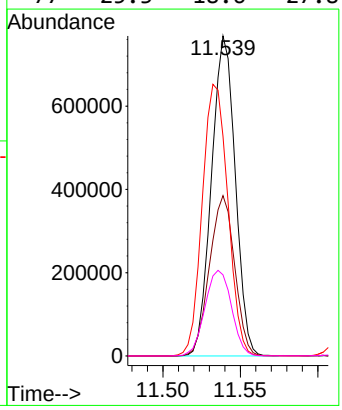
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

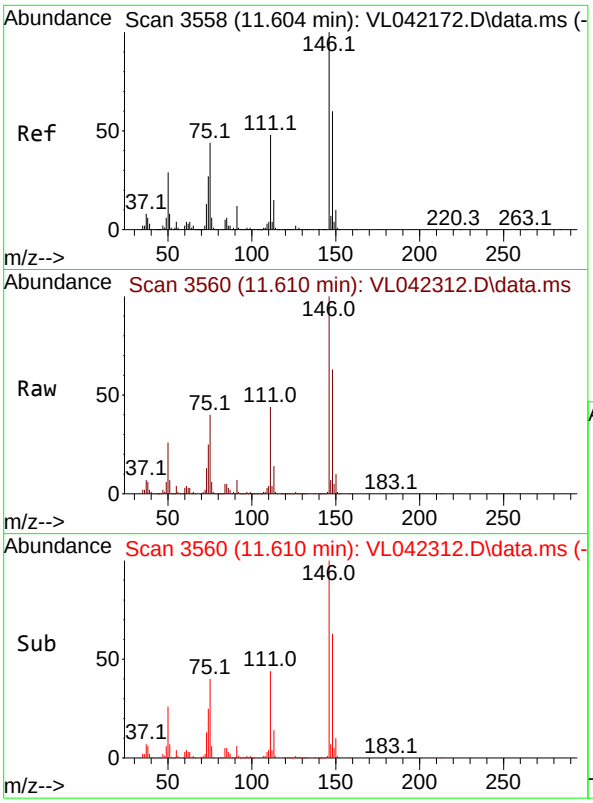



#74
1,2,4-Trimethylbenzene
Concen: 11.463 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:105 Resp: 819490

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 50.1 | 38.6 | 58.0 |
| 91 | 68.5 | 46.2 | 69.2 |
| 77 | 25.3 | 18.6 | 27.8 |

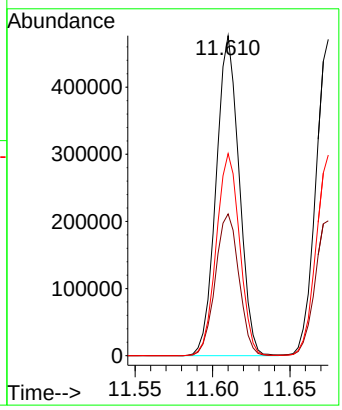





#75
1,3-Dichlorobenzene
Concen: 12.562 ppbv
RT: 11.610 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:146 Resp: 49254

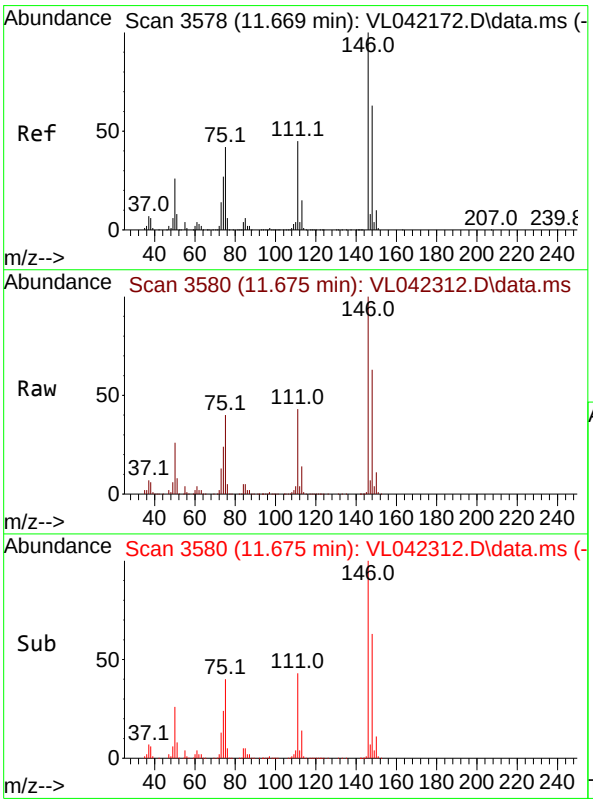
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 45.5 | 23.8 | 71.2 |
| 148 | 64.0 | 31.9 | 95.9 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
**APPROVED**

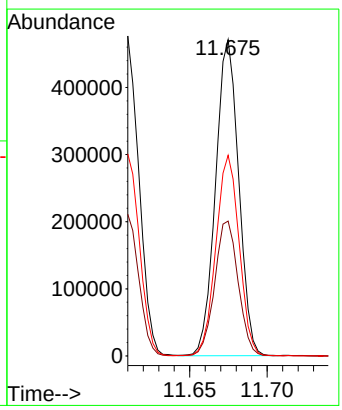
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

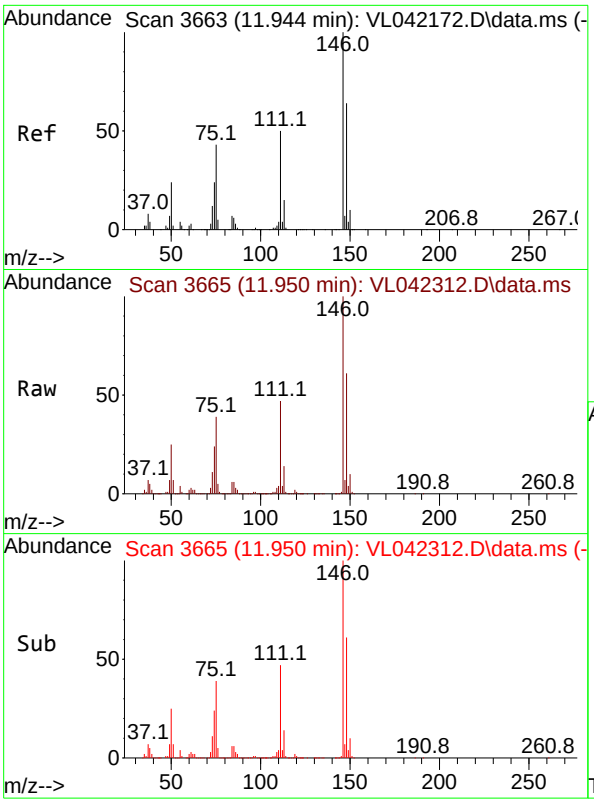



#76
1,4-Dichlorobenzene
Concen: 12.522 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:146 Resp: 488636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.7 | 23.0 | 69.0 |
| 148 | 64.0 | 31.9 | 95.7 |

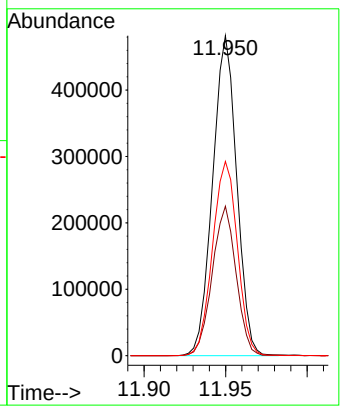





#77
1,2-Dichlorobenzene
Concen: 12.959 ppbv
RT: 11.950 min Scan# 3(
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:146 Resp: 49473(

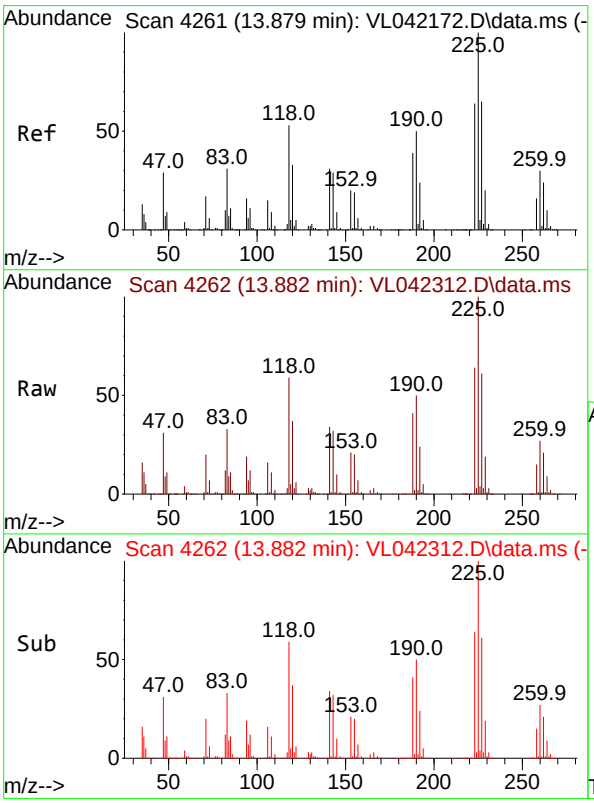
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 46.4 | 24.8 | 74.3 |
| 148 | 62.7 | 31.6 | 94.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
**APPROVED**

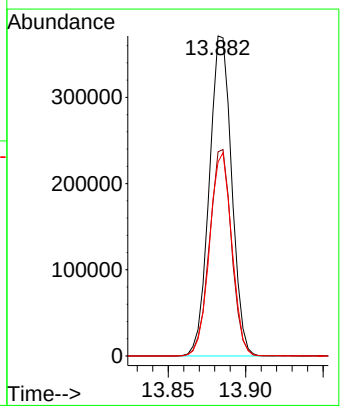
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

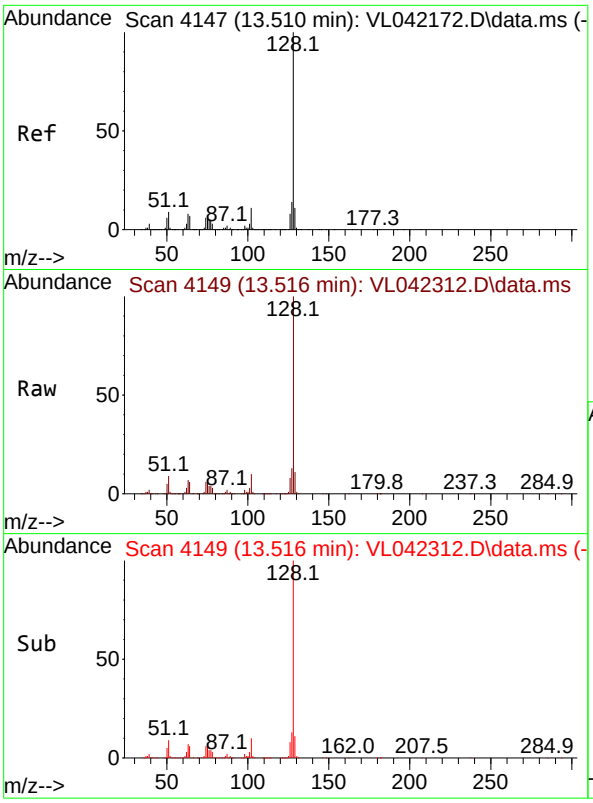



#78
Hexachloro-1,3-Butadiene
Concen: 9.599 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:225 Resp: 373025

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.4 | 50.6 | 76.0 |
| 227 | 62.8 | 51.2 | 76.8 |

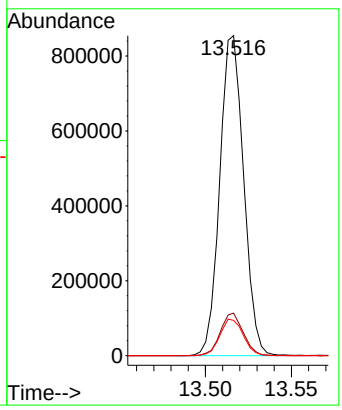





#79
Naphthalene
Concen: 10.550 ppbv
RT: 13.516 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:128 Resp: 82494

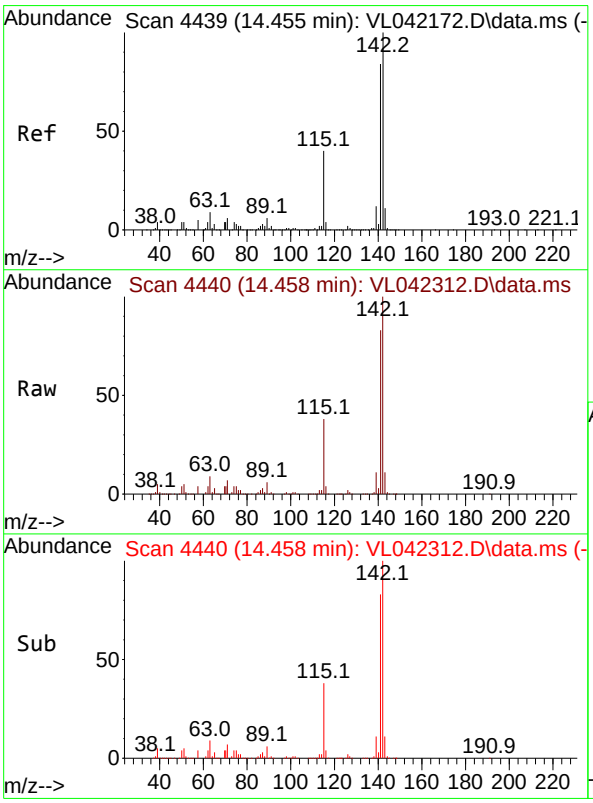
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.3 | 10.8 | 16.2 |
| 129 | 11.1 | 9.0 | 13.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
**APPROVED**

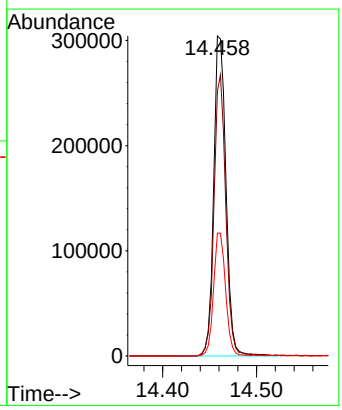
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

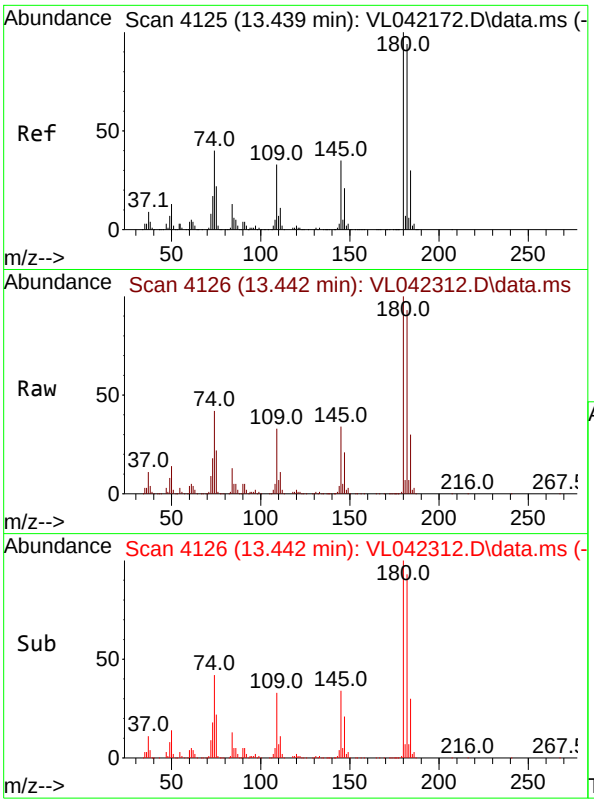



#80
Naphthalene,2-methyl-
Concen: 7.212 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:142 Resp: 276556

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 84.7 | 66.3 | 99.5 |
| 115 | 38.0 | 31.6 | 47.4 |

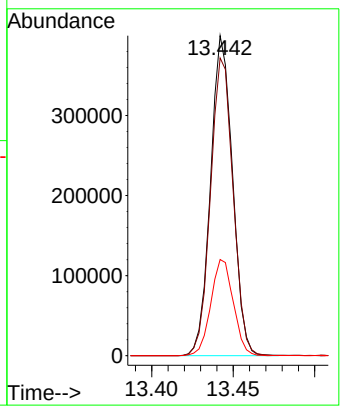





#81
1,2,4-Trichlorobenzene
Concen: 10.389 ppbv
RT: 13.442 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:180 Resp: 37471

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.6 | 75.1 | 112.7 |
| 184 | 30.8 | 24.4 | 36.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042312.D
Acq On : 11 Apr 2025 09:50
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**LabSampleId :**
VSTDCCC010

Quant Time: Apr 11 22:56:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Bromochloromethane | 1.000 | 1.000 | 0.0 | 98 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 1.476 | 1.441 | 2.4 | 101 | 0.00 |
| 3 | | Chlorodifluoromethane | 1.508 | 1.568 | -4.0 | 106 | 0.00 |
| 4 | | Chloromethane | 0.603 | 0.609 | -1.0 | 104 | 0.00 |
| 5 | T | Vinyl Chloride | 0.639 | 0.557 | 12.8 | 100 | 0.00 |
| 6 | T | Bromomethane | 0.273 | 0.234 | 14.3 | 90 | 0.00 |
| 7 | | Chloroethane | 0.242 | 0.228 | 5.8 | 99 | 0.00 |
| 8 | T | Dichlorotetrafluoroethane | 1.257 | 1.222 | 2.8 | 99 | 0.00 |
| 9 | T | Propene | 0.691 | 0.641 | 7.2 | 95 | 0.00 |
| 10 | T | Heptane | 1.839 | 1.822 | 0.9 | 100 | 0.00 |
| 11 | T | Trichlorofluoromethane | 1.437 | 1.362 | 5.2 | 100 | 0.00 |
| 12 | T | 1,1,2-Trichlorotrifluoroeth | 1.181 | 1.053 | 10.8 | 92 | 0.00 |
| 13 | | Ethanol | 0.065 | 0.032# | 50.8# | 110 | 0.00 |
| 14 | T | Bromoethene | 0.452 | 0.399 | 11.7 | 94 | 0.00 |
| 15 | T | Acetone | 1.399 | 1.261 | 9.9 | 111 | 0.00 |
| 16 | T | 1,3-Butadiene | 0.683 | 0.611 | 10.5 | 105 | 0.00 |
| 17 | | tert-Butyl alcohol | 1.742 | 1.391 | 20.1 | 84 | 0.00 |
| 18 | T | 1,1-Dichloroethene | 0.552 | 0.487 | 11.8 | 95 | 0.00 |
| 19 | T | Isopropyl Alcohol | 0.789 | 0.682 | 13.6 | 95 | 0.00 |
| 20 | T | Methylene Chloride | 0.521 | 0.419 | 19.6 | 94 | 0.00 |
| 21 | T | Allyl Chloride | 0.986 | 0.887 | 10.0 | 97 | 0.00 |
| 22 | T | trans-1,2-Dichloroethene | 0.638 | 0.555 | 13.0 | 92 | 0.00 |
| 23 | T | Vinyl Acetate | 0.605 | 0.518 | 14.4 | 102 | 0.00 |
| 24 | T | 1,1-Dichloroethane | 1.183 | 1.132 | 4.3 | 99 | 0.00 |
| 25 | T | Ethyl Acetate | 3.630 | 3.696 | -1.8 | 105 | 0.00 |
| 26 | T | Hexane | 1.402 | 1.398 | 0.3 | 103 | 0.00 |
| 27 | T | Carbon Disulfide | 1.503 | 1.325 | 11.8 | 91 | 0.00 |
| 28 | T | Methyl tert-Butyl Ether | 0.873 | 0.703 | 19.5 | 83 | 0.00 |
| 29 | T | Chloroform | 2.052 | 2.143 | -4.4 | 109 | 0.00 |
| 30 | T | Cyclohexane | 1.217 | 1.108 | 9.0 | 94 | 0.00 |
| 31 | T | cis-1,2-Dichloroethene | 1.423 | 1.346 | 5.4 | 96 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 2.349 | 2.070 | 11.9 | 99 | 0.00 |
| 33 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 85 | 0.00 |
| 34 | T | 2-Butanone | 0.725 | 0.821 | -13.2 | 105 | 0.00 |
| 35 | T | Carbon Tetrachloride | 0.781 | 0.841 | -7.7 | 102 | 0.00 |
| 36 | T | Benzene | 0.991 | 1.092 | -10.2 | 99 | 0.00 |
| 37 | T | 1,2-Dichloroethane | 0.568 | 0.630 | -10.9 | 100 | 0.00 |
| 38 | T | Trichloroethene | 0.414 | 0.438 | -5.8 | 100 | 0.00 |
| 39 | T | 1,2-Dichloropropane | 0.361 | 0.400 | -10.8 | 101 | 0.00 |
| 40 | T | 1,4-Dioxane | 0.192 | 0.178 | 7.3 | 89 | 0.00 |
| 41 | T | Tetrahydrofuran | 0.418 | 0.467 | -11.7 | 100 | 0.00 |
| 42 | T | Bromodichloromethane | 0.782 | 0.891 | -13.9 | 99 | 0.00 |
| 43 | | Methyl Methacrylate | 0.420 | 0.398 | 5.2 | 84 | 0.01 |
| 44 | T | 2,2,4-Trimethylpentane | 1.675 | 1.882 | -12.4 | 100 | 0.00 |
| 45 | T | t-1,3-Dichloropropene | 0.450 | 0.381 | 15.3 | 74 | 0.02 |
| 46 | T | cis-1,3-Dichloropropene | 0.552 | 0.509 | 7.8 | 79 | 0.00 |
| 47 | T | 1,1,2-Trichloroethane | 0.382 | 0.438 | -14.7 | 102 | 0.00 |
| 48 | T | Dibromochloromethane | 0.647 | 0.718 | -11.0 | 96 | 0.00 |

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042312.D
Acq On : 11 Apr 2025 09:50
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**LabSampleId :**
VSTDCCC010

Quant Time: Apr 11 22:56:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | Bromoform | 0.581 | 0.635 | -9.3 | 93 | 0.00 |
| 50 | T | 4-Methyl-2-Pentanone | 1.149 | 1.147 | 0.2 | 95 | 0.00 |
| 51 | T | 2-Hexanone | 0.944 | 0.914 | 3.2 | 92 | 0.00 |
| 52 | T | Tetrachloroethene | 0.393 | 0.369 | 6.1 | 91 | 0.00 |
| 53 | T | Toluene | 1.175 | 1.181 | -0.5 | 89 | 0.00 |
| 54 | T | 1,2-Dibromoethane | 0.532 | 0.576 | -8.3 | 97 | 0.00 |
| 55 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 77 | 0.00 |
| 56 | | 1,1,1,2-Tetrachloroethane | 0.550 | 0.676 | -22.9 | 102 | 0.00 |
| 57 | T | Chlorobenzene | 0.949 | 1.148 | -21.0 | 101 | 0.00 |
| 58 | T | Ethyl Benzene | 1.776 | 1.942 | -9.3 | 90 | 0.00 |
| 59 | T | m/p-Xylene | 1.418 | 1.649 | -16.3 | 96 | 0.00 |
| 60 | T | o-Xylene | 1.422 | 1.645 | -15.7 | 96 | 0.00 |
| 61 | T | Styrene | 0.703 | 0.726 | -3.3 | 82 | 0.00 |
| 62 | | Isopropylbenzene | 2.126 | 2.463 | -15.9 | 97 | 0.00 |
| 63 | T | 1,1,2,2-Tetrachloroethane | 0.864 | 1.112 | -28.7 | 108 | 0.00 |
| 64 | | n-propylbenzene | 0.547 | 0.669 | -22.3 | 104 | 0.00 |
| 65 | | tert-Butylbenzene | 1.966 | 2.324 | -18.2 | 103 | 0.00 |
| 66 | T | Benzyl Chloride | 0.209 | 0.171 | 18.2 | 65 | 0.00 |
| 67 | | sec-Butylbenzene | 2.733 | 3.264 | -19.4 | 105 | 0.00 |
| 68 | S | 1-Bromo-4-Fluorobenzene | 0.821 | 0.793 | 3.4 | 75 | 0.00 |
| 69 | | p-Isopropyltoluene | 2.354 | 2.758 | -17.2 | 103 | 0.00 |
| 70 | | n-Butylbenzene | 2.407 | 2.852 | -18.5 | 103 | 0.00 |
| 71 | | 2-Chlorotoluene | 1.650 | 1.885 | -14.2 | 95 | 0.00 |
| 72 | T | 4-Ethyltoluene | 1.770 | 2.112 | -19.3 | 100 | 0.00 |
| 73 | T | 1,3,5-Trimethylbenzene | 1.546 | 1.819 | -17.7 | 101 | 0.00 |
| 74 | T | 1,2,4-Trimethylbenzene | 1.781 | 2.042 | -14.7 | 104 | 0.00 |
| 75 | T | 1,3-Dichlorobenzene | 0.977 | 1.227 | -25.6 | 107 | 0.00 |
| 76 | T | 1,4-Dichlorobenzene | 0.972 | 1.218 | -25.3 | 106 | 0.00 |
| 77 | T | 1,2-Dichlorobenzene | 0.951 | 1.233 | -29.7 | 112 | 0.00 |
| 78 | T | Hexachloro-1,3-Butadiene | 0.968 | 0.929 | 4.0 | 90 | 0.00 |
| 79 | T | Naphthalene | 1.948 | 2.055 | -5.5 | 88 | 0.00 |
| 80 | T | Naphthalene,2-methyl- | 0.955 | 0.689 | 27.9 | 54 | 0.00 |
| 81 | T | 1,2,4-Trichlorobenzene | 0.899 | 0.934 | -3.9 | 84 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WOOD06

Lab Code: CHEM Case No.: Q1665 SAS No.: Q1665 SDG No.: Q1665

Instrument ID: MSVOA_L Calibration Date/Time: 04/15/2025 11:30

Lab File ID: VL042326.D Init. Calib. Date(s): 03/27/2025 03/27/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 08:26 11:36

GC Column: RTX-1 ID: 0.32 (mm)

| COMPOUND | RRF | RRF010 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 1.476 | 1.245 | | -15.65 | 30 |
| Ethanol | 0.065 | 0.026 | | -60 | 30 |
| Chloromethane | 0.603 | 0.520 | | -13.77 | 30 |
| Vinyl Chloride | 0.639 | 0.483 | | -24.41 | 30 |
| Bromomethane | 0.273 | 0.211 | | -22.71 | 30 |
| Chloroethane | 0.242 | 0.187 | | -22.73 | 30 |
| Tetrahydrofuran | 0.418 | 0.397 | | -5.02 | 30 |
| Trichlorofluoromethane | 1.437 | 1.175 | | -18.23 | 30 |
| 1,1,2-Trichlorotrifluoroethane | 1.181 | 0.912 | | -22.78 | 30 |
| Dichlorotetrafluoroethane | 1.257 | 1.062 | | -15.51 | 30 |
| Bromoethene | 0.452 | 0.346 | | -23.45 | 30 |
| tert-Butyl alcohol | 1.742 | 1.218 | | -30.08 | 30 |
| Heptane | 1.839 | 1.607 | | -12.62 | 30 |
| Isopropyl Alcohol | 0.789 | 0.606 | | -23.19 | 30 |
| 1,1-Dichloroethene | 0.552 | 0.420 | | -23.91 | 30 |
| Acetone | 1.399 | 1.065 | | -23.87 | 30 |
| Carbon Disulfide | 1.503 | 1.135 | | -24.48 | 30 |
| Methyl tert-Butyl Ether | 0.873 | 0.675 | | -22.68 | 30 |
| Methylene Chloride | 0.521 | 0.350 | | -32.82 | 30 |
| trans-1,2-Dichloroethene | 0.638 | 0.474 | | -25.7 | 30 |
| 1,1-Dichloroethane | 1.183 | 0.983 | | -16.91 | 30 |
| Cyclohexane | 1.217 | 1.006 | | -17.34 | 30 |
| 2-Butanone | 0.725 | 0.694 | | -4.28 | 30 |
| Carbon Tetrachloride | 0.781 | 0.695 | | -11.01 | 30 |
| cis-1,2-Dichloroethene | 1.423 | 1.208 | | -15.11 | 30 |
| Chloroform | 2.052 | 1.824 | | -11.11 | 30 |
| 1,1,1-Trichloroethane | 2.349 | 1.810 | | -22.95 | 30 |
| 2,2,4-Trimethylpentane | 1.675 | 1.593 | | -4.9 | 30 |
| Benzene | 0.991 | 0.928 | | -6.36 | 30 |
| 1,2-Dichloroethane | 0.568 | 0.524 | | -7.75 | 30 |
| Trichloroethene | 0.414 | 0.377 | | -8.94 | 30 |
| 1,2-Dichloropropane | 0.361 | 0.332 | | -8.03 | 30 |
| Bromodichloromethane | 0.782 | 0.729 | | -6.78 | 30 |
| 4-Methyl-2-Pentanone | 1.149 | 0.969 | | -15.67 | 30 |
| Toluene | 1.175 | 1.010 | | -14.04 | 30 |
| t-1,3-Dichloropropene | 0.450 | 0.330 | | -26.67 | 30 |
| cis-1,3-Dichloropropene | 0.552 | 0.447 | | -19.02 | 30 |
| 1,1,2-Trichloroethane | 0.382 | 0.357 | | -6.55 | 30 |

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WOOD06

Lab Code: CHEM Case No.: Q1665 SAS No.: Q1665 SDG No.: Q1665

Instrument ID: MSVOA_L Calibration Date/Time: 04/15/2025 11:30

Lab File ID: VL042326.D Init. Calib. Date(s): 03/27/2025 03/27/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 08:26 11:36

GC Column: RTX-1 ID: 0.32 (mm)

| COMPOUND | RRF | RRF010 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dibromochloromethane | 0.647 | 0.596 | | -7.88 | 30 |
| 1,2-Dibromoethane | 0.532 | 0.481 | | -9.59 | 30 |
| Tetrachloroethene | 0.393 | 0.316 | | -19.59 | 30 |
| Chlorobenzene | 0.949 | 0.912 | | -3.9 | 30 |
| Ethyl Benzene | 1.776 | 1.555 | | -12.44 | 30 |
| m/p-Xylene | 1.418 | 1.292 | | -8.89 | 30 |
| o-Xylene | 1.422 | 1.285 | | -9.63 | 30 |
| Styrene | 0.703 | 0.596 | | -15.22 | 30 |
| Bromoform | 0.581 | 0.522 | | -10.15 | 30 |
| 1,1,2,2-Tetrachloroethane | 0.864 | 0.835 | | -3.36 | 30 |
| 2-Chlorotoluene | 1.650 | 1.457 | | -11.7 | 30 |
| 1,3,5-Trimethylbenzene | 1.546 | 1.355 | | -12.35 | 30 |
| 1,2,4-Trimethylbenzene | 1.781 | 1.515 | | -14.94 | 30 |
| 1,3-Dichlorobenzene | 0.977 | 0.927 | | -5.12 | 30 |
| 1,4-Dichlorobenzene | 0.972 | 0.924 | | -4.94 | 30 |
| 1,2-Dichlorobenzene | 0.951 | 0.923 | | -2.94 | 30 |
| 1,2,4-Trichlorobenzene | 0.899 | 0.819 | | -8.9 | 30 |
| Hexachloro-1,3-Butadiene | 0.968 | 0.758 | | -21.69 | 30 |
| 1,3-Butadiene | 0.683 | 0.528 | | -22.69 | 30 |
| Naphthalene | 1.948 | 1.849 | | -5.08 | 30 |
| 4-Ethyltoluene | 1.770 | 1.598 | | -9.72 | 30 |
| 1-Bromo-4-Fluorobenzene | 0.821 | 0.792 | | -3.53 | 30 |
| Hexane | 1.402 | 1.241 | | -11.48 | 30 |
| Allyl Chloride | 0.986 | 0.772 | | -21.7 | 30 |
| 1,4-Dioxane | 191.626 | 157.635 | | -17.74 | 30 |
| Methyl Methacrylate | 0.420 | 0.340 | | -19.05 | 30 |

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
Data File : VL042326.D
Acq On : 15 Apr 2025 11:30
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 16 01:29:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.806 | 49 | 172263 | 10.000 | ppbv | 0.02 |
| 33) 1,4-Difluorobenzene | 3.988 | 114 | 457227 | 10.000 | ppbv | 0.04 |
| 55) Chlorobenzene-d5 | 8.911 | 117 | 411493 | 10.000 | ppbv | 0.04 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.403 | 95 | 325960 | 9.646 | ppbv | 0.03 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 96.500% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.505 | 85 | 214541 | 8.435 | ppbv | 99 |
| 3) Chlorodifluoromethane | 1.483 | 51 | 235250 | 9.054 | ppbv | 98 |
| 4) Chloromethane | 1.541 | 50 | 89653 | 8.625 | ppbv | 98 |
| 5) Vinyl Chloride | 1.589 | 62 | 83204 | 7.554 | ppbv | 96 |
| 6) Bromomethane | 1.677 | 94 | 36297 | 7.705 | ppbv | 99 |
| 7) Chloroethane | 1.716 | 64 | 32145 | 7.704 | ppbv | 97 |
| 8) Dichlorotetrafluoroethane | 1.564 | 85 | 182884 | 8.443 | ppbv | 94 |
| 9) Propene | 1.492 | 41 | 101034 | 8.483 | ppbv | 98 |
| 10) Heptane | 5.020 | 43 | 276748 | 8.736 | ppbv | 98 |
| 11) Trichlorofluoromethane | 1.887 | 101 | 202387 | 8.178 | ppbv | 99 |
| 12) 1,1,2-Trichlorotrifluo... | 2.153 | 101 | 157030 | 7.719 | ppbv | 98 |
| 13) Ethanol | 1.732 | 45 | 4440 | 3.944 | ppbv | 93 |
| 14) Bromoethene | 1.793 | 108 | 59588 | 7.646 | ppbv | 99 |
| 15) Acetone | 1.845 | 43 | 183439 | 7.614 | ppbv | 96 |
| 16) 1,3-Butadiene | 1.619 | 39 | 90954 | 7.731 | ppbv | 100 |
| 17) tert-Butyl alcohol | 2.052 | 59 | 209737 | 6.990 | ppbv | 100 |
| 18) 1,1-Dichloroethene | 2.046 | 96 | 72322 | 7.605 | ppbv | 96 |
| 19) Isopropyl Alcohol | 1.897 | 45 | 104424 | 7.682 | ppbv | 98 |
| 20) Methylene Chloride | 2.075 | 84 | 60337 | 6.725 | ppbv | 90 |
| 21) Allyl Chloride | 2.111 | 41 | 132956 | 7.825 | ppbv | 98 |
| 22) trans-1,2-Dichloroethene | 2.357 | 96 | 81572 | 7.422 | ppbv | 96 |
| 23) Vinyl Acetate | 2.480 | 43 | 72160 | 6.920 | ppbv | 97 |
| 24) 1,1-Dichloroethane | 2.425 | 63 | 169411 | 8.315 | ppbv | 100 |
| 25) Ethyl Acetate | 2.855 | 43 | 564611 | 9.030 | ppbv | 99 |
| 26) Hexane | 2.845 | 57 | 213782 | 8.851 | ppbv | 98 |
| 27) Carbon Disulfide | 2.166 | 76 | 195452 | 7.547 | ppbv | 97 |
| 28) Methyl tert-Butyl Ether | 2.457 | 73 | 116301 | 7.734 | ppbv | 96 |
| 29) Chloroform | 2.868 | 83 | 314164 | 8.888 | ppbv | 100 |
| 30) Cyclohexane | 3.884 | 84 | 173360 | 8.266 | ppbv | 98 |
| 31) cis-1,2-Dichloroethene | 2.739 | 61 | 208160 | 8.490 | ppbv | 96 |
| 32) 1,1,1-Trichloroethane | 3.392 | 97 | 311758 | 7.704 | ppbv | 98 |
| 34) 2-Butanone | 2.577 | 43 | 317117 | 9.565 | ppbv | 97 |
| 35) Carbon Tetrachloride | 3.790 | 117 | 317942 | 8.902 | ppbv | 99 |
| 36) Benzene | 3.684 | 78 | 424254 | 9.360 | ppbv | 94 |
| 37) 1,2-Dichloroethane | 3.243 | 62 | 239556 | 9.231 | ppbv | 100 |
| 38) Trichloroethene | 4.583 | 130 | 172146 | 9.102 | ppbv | 96 |
| 39) 1,2-Dichloropropane | 4.350 | 63 | 151707 | 9.190 | ppbv | 96 |
| 40) 1,4-Dioxane | 4.622 | 88 | 72075 | 8.226 | ppbv # | 98 |
| 41) Tetrahydrofuran | 3.075 | 42 | 181471 | 9.505 | ppbv | 95 |
| 42) Bromodichloromethane | 4.525 | 83 | 333167 | 9.313 | ppbv | 97 |
| 43) Methyl Methacrylate | 4.923 | 69 | 155399 | 8.098 | ppbv | 96 |
| 44) 2,2,4-Trimethylpentane | 4.677 | 57 | 728571 | 9.511 | ppbv | 99 |
| 45) t-1,3-Dichloropropene | 6.461 | 75 | 151063 | 7.338 | ppbv | 96 |

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
Data File : VL042326.D
Acq On : 15 Apr 2025 11:30
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 16 01:29:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.648 | 75 | 204339 | 8.097 | ppbv | | 98 |
| 47) 1,1,2-Trichloroethane | 6.626 | 97 | 163132 | 9.348 | ppbv | | 97 |
| 48) Dibromochloromethane | 7.425 | 129 | 272592 | 9.217 | ppbv | | 99 |
| 49) Bromoform | 9.513 | 173 | 238880 | 8.997 | ppbv | | 100 |
| 50) 4-Methyl-2-Pentanone | 5.800 | 43 | 442851 | 8.428 | ppbv | | 97 |
| 51) 2-Hexanone | 7.474 | 43 | 353471 | 8.192 | ppbv | # | 97 |
| 52) Tetrachloroethene | 8.260 | 164 | 144481 | 8.037 | ppbv | | 98 |
| 53) Toluene | 6.975 | 91 | 461854 | 8.595 | ppbv | | 100 |
| 54) 1,2-Dibromoethane | 7.687 | 107 | 220075 | 9.047 | ppbv | | 97 |
| 56) 1,1,1,2-Tetrachloroethane | 8.956 | 131 | 214175 | 9.455 | ppbv | | 99 |
| 57) Chlorobenzene | 8.953 | 112 | 375357 | 9.617 | ppbv | | 97 |
| 58) Ethyl Benzene | 9.383 | 91 | 639857 | 8.754 | ppbv | | 99 |
| 59) m/p-Xylene | 9.581 | 91 | 1063509m | 18.222 | ppbv | | |
| 60) o-Xylene | 9.992 | 91 | 528896 | 9.040 | ppbv | | 95 |
| 61) Styrene | 9.898 | 104 | 245300 | 8.474 | ppbv | | 97 |
| 62) Isopropylbenzene | 10.565 | 105 | 794408 | 9.079 | ppbv | | 98 |
| 63) 1,1,2,2-Tetrachloroethane | 9.992 | 83 | 343786 | 9.671 | ppbv | | 100 |
| 64) n-propylbenzene | 11.015 | 120 | 212879 | 9.452 | ppbv | | 95 |
| 65) tert-Butylbenzene | 11.555 | 119 | 721078 | 8.911 | ppbv | | 97 |
| 66) Benzyl Chloride | 11.639 | 91 | 54427 | 6.339 | ppbv | | 98 |
| 67) sec-Butylbenzene | 11.791 | 105 | 1026079 | 9.123 | ppbv | | 99 |
| 69) p-Isopropyltoluene | 11.947 | 119 | 865385 | 8.935 | ppbv | | 99 |
| 70) n-Butylbenzene | 12.303 | 91 | 884265 | 8.928 | ppbv | | 99 |
| 71) 2-Chlorotoluene | 10.927 | 91 | 599592 | 8.830 | ppbv | | 98 |
| 72) 4-Ethyltoluene | 11.147 | 105 | 657765 | 9.029 | ppbv | | 99 |
| 73) 1,3,5-Trimethylbenzene | 11.228 | 105 | 557593 | 8.764 | ppbv | | 99 |
| 74) 1,2,4-Trimethylbenzene | 11.558 | 105 | 623563 | 8.507 | ppbv | # | 86 |
| 75) 1,3-Dichlorobenzene | 11.630 | 146 | 381572 | 9.492 | ppbv | | 98 |
| 76) 1,4-Dichlorobenzene | 11.694 | 146 | 380035 | 9.499 | ppbv | | 98 |
| 77) 1,2-Dichlorobenzene | 11.969 | 146 | 379896 | 9.706 | ppbv | | 97 |
| 78) Hexachloro-1,3-Butadiene | 13.902 | 225 | 311900 | 7.828 | ppbv | | 99 |
| 79) Naphthalene | 13.533 | 128 | 760876 | 9.490 | ppbv | | 99 |
| 80) Naphthalene,2-methyl- | 14.478 | 142 | 365398 | 9.294 | ppbv | | 98 |
| 81) 1,2,4-Trichlorobenzene | 13.461 | 180 | 337032 | 9.114 | ppbv | | 99 |

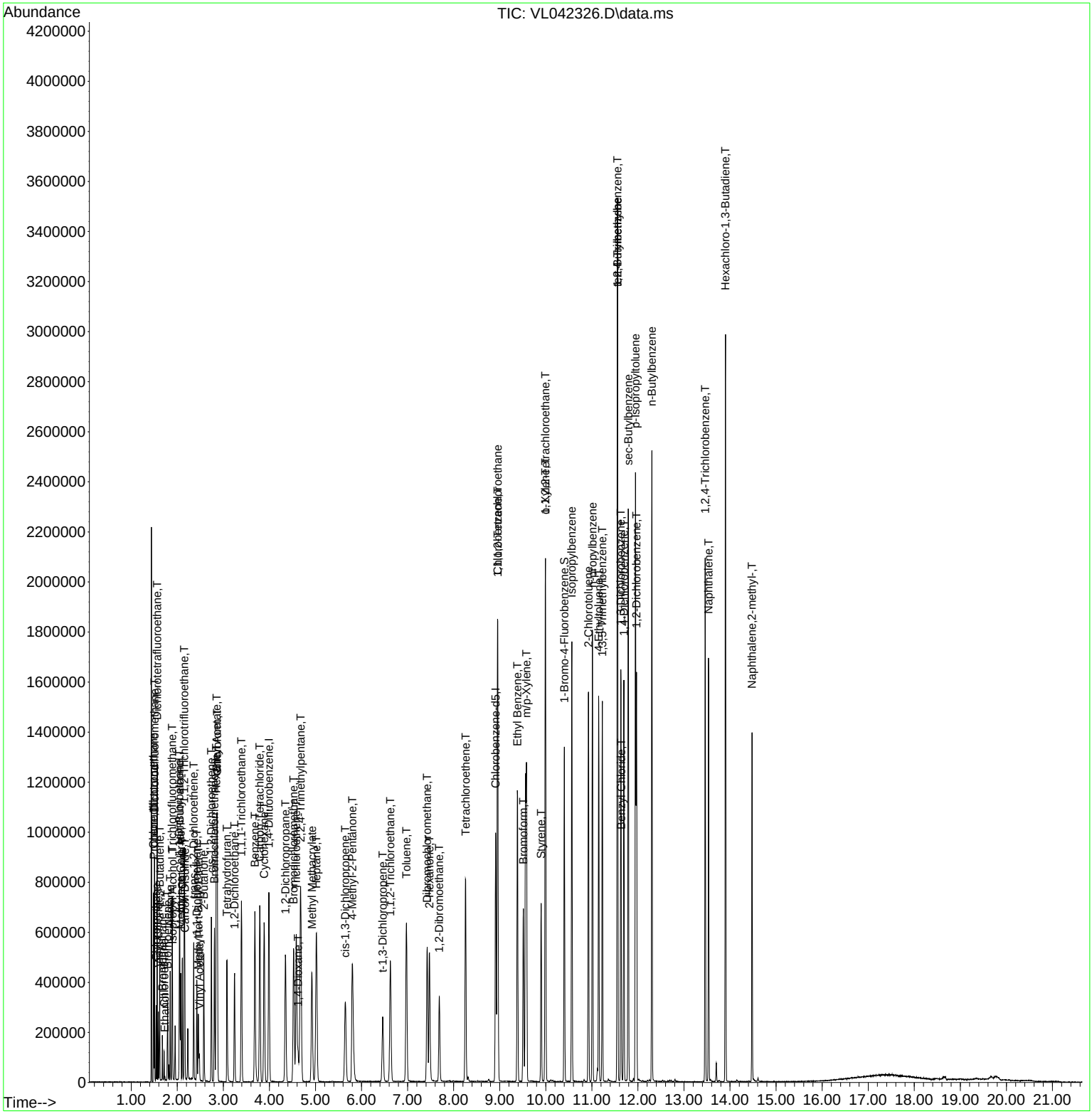
(#) = qualifier out of range (m) = manual integration (+) = signals summed

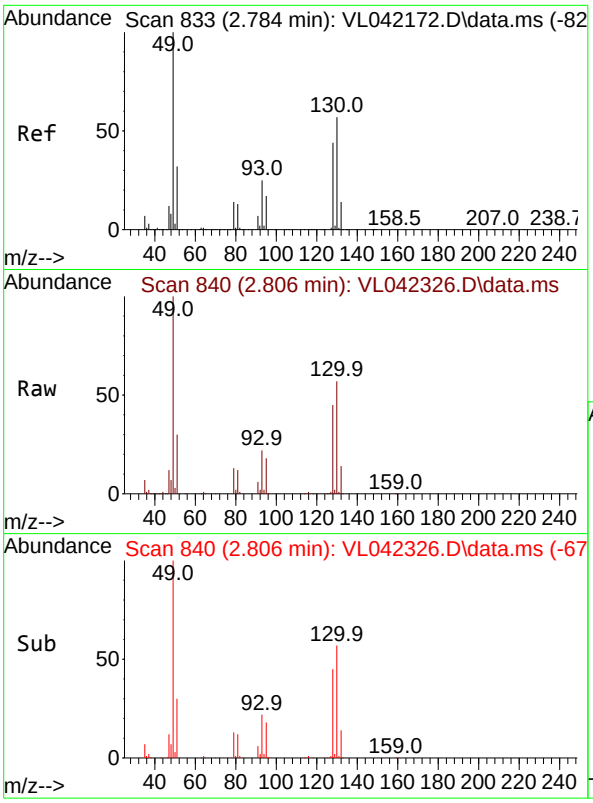
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
Data File : VL042326.D
Acq On : 15 Apr 2025 11:30
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 16 01:29:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

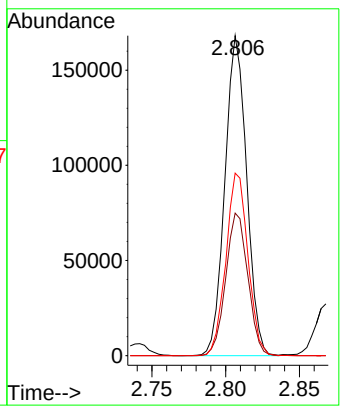





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.806 min Scan# 84
Delta R.T. 0.022 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 49 Resp: 17226

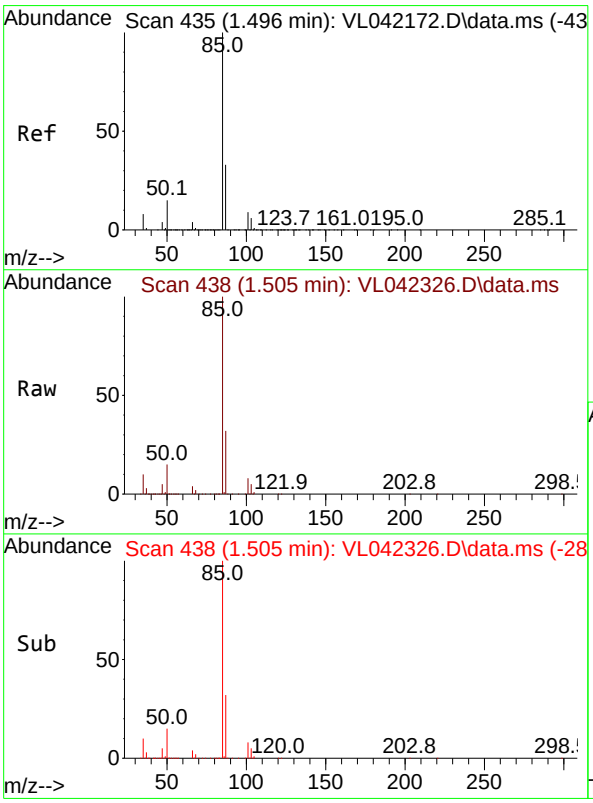
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 45.3 | 22.9 | 68.5 |
| 130 | 57.8 | 28.8 | 86.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
**APPROVED**

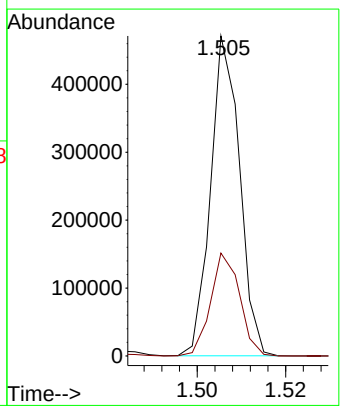
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

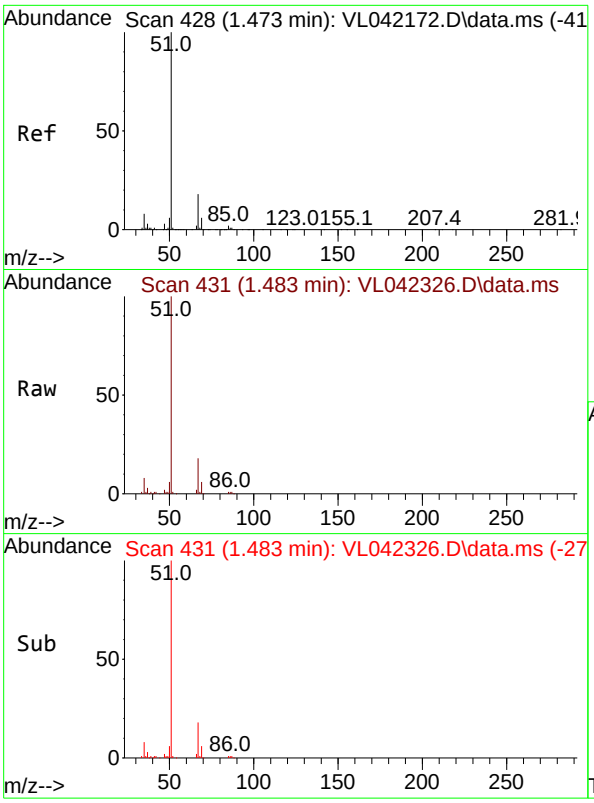



#2
Dichlorodifluoromethane
Concen: 8.435 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.010 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 85 Resp: 214541

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.1 | 26.1 | 39.1 |

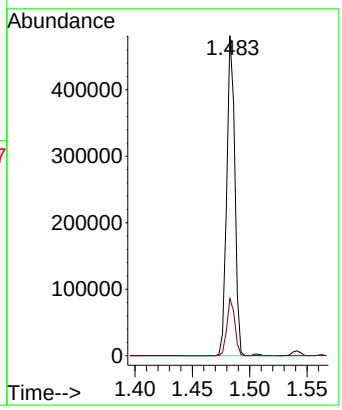





#3
Chlorodifluoromethane
Concen: 9.054 ppbv
RT: 1.483 min Scan# 4
Delta R.T. 0.010 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 51 Resp: 23525

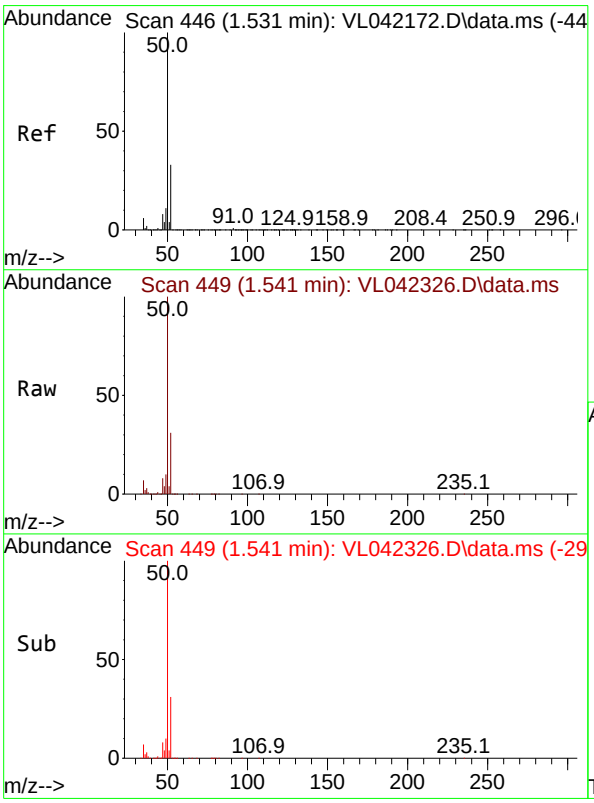
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 17.7 | 15.0 | 22.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
**APPROVED**

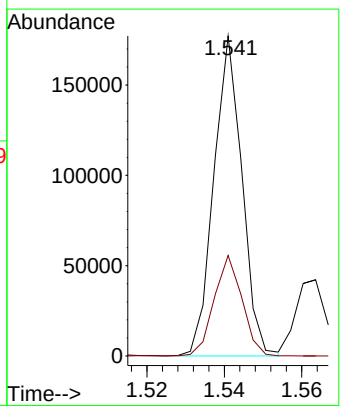
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

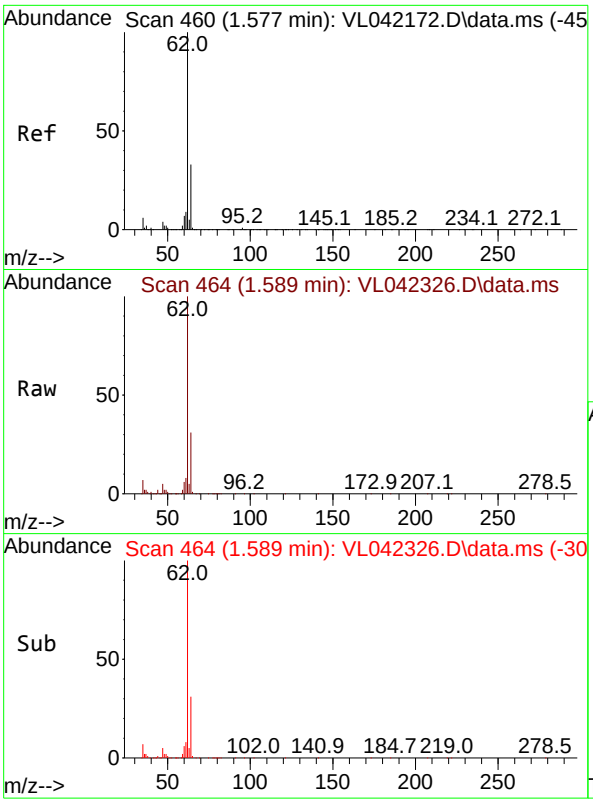



#4
Chloromethane
Concen: 8.625 ppbv
RT: 1.541 min Scan# 449
Delta R.T. 0.010 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 50 Resp: 89653

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 31.4 | 26.1 | 39.1 |

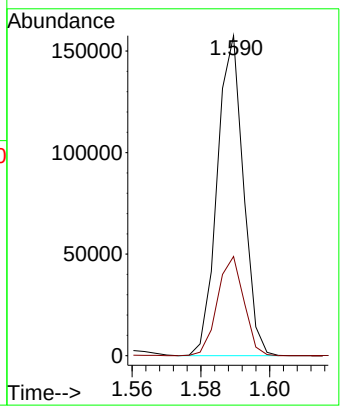





#5
Vinyl Chloride
Concen: 7.554 ppbv
RT: 1.589 min Scan# 4
Delta R.T. 0.013 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 62 Resp: 8320

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.0 | 26.6 | 40.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
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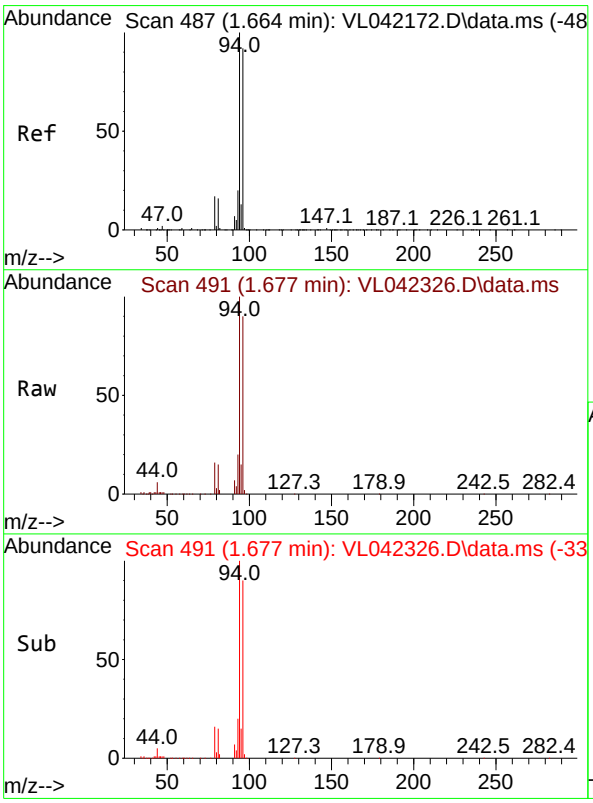
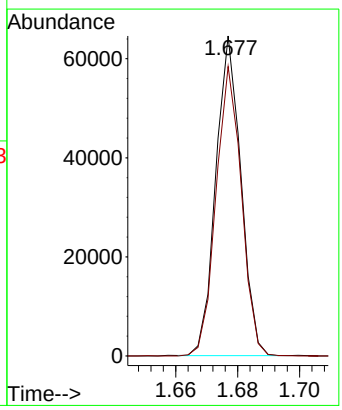
Supervised By :Mahesh Dadoda 04/16/2025

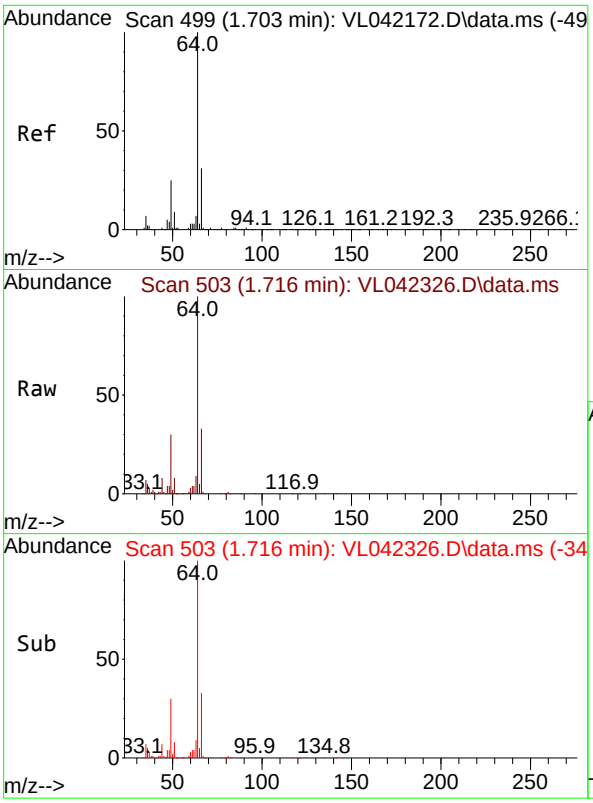



#6
Bromomethane
Concen: 7.705 ppbv
RT: 1.677 min Scan# 491
Delta R.T. 0.013 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 94 Resp: 36297

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 90.5 | 73.1 | 109.7 |

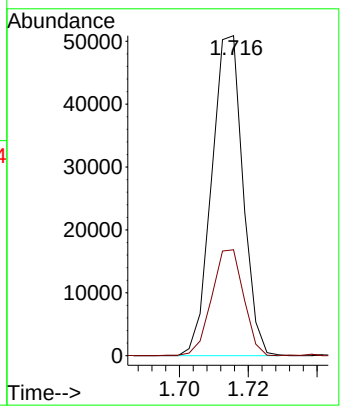





#7
Chloroethane
Concen: 7.704 ppbv
RT: 1.716 min Scan# 5
Delta R.T. 0.013 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 64 Resp: 3214

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 33.1 | 25.2 | 37.8 |




**Instrument :**
MSVOA_L
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VSTDCCC010

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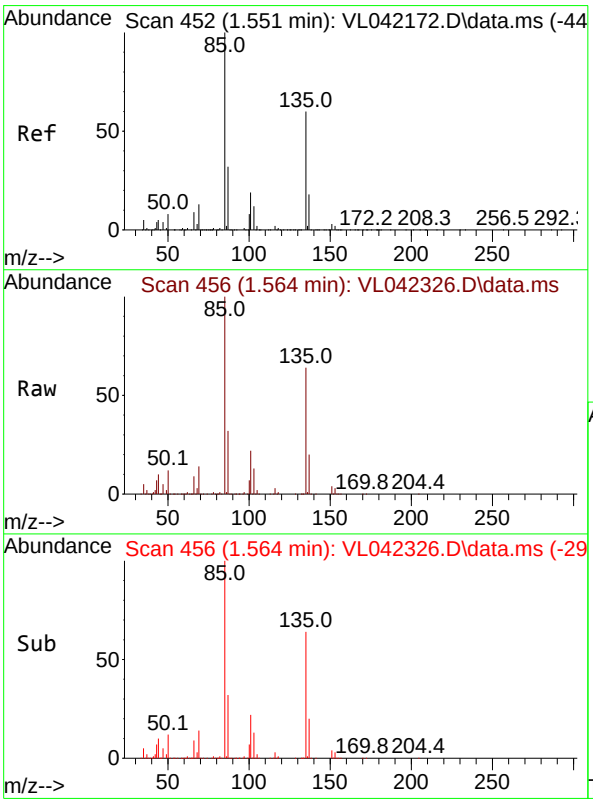
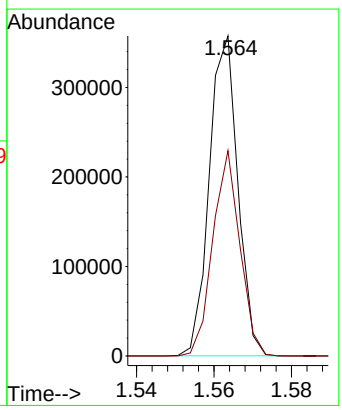
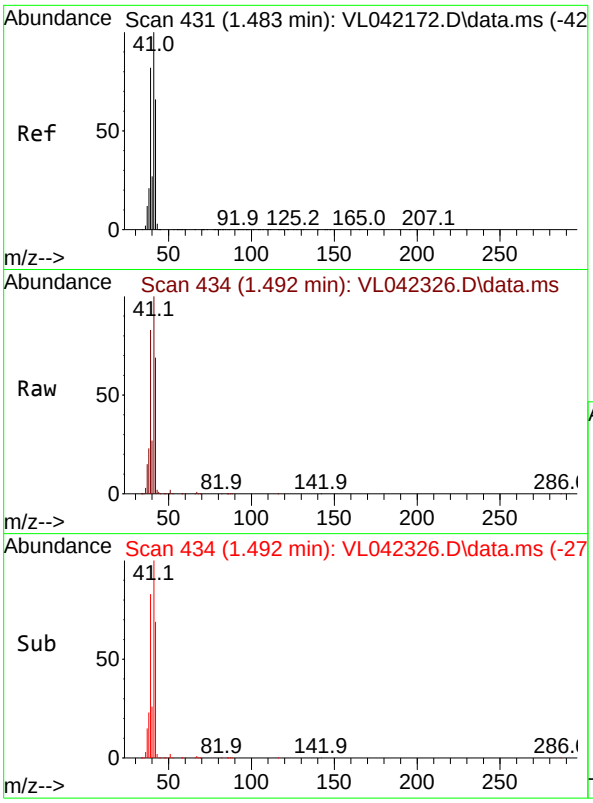



#8
Dichlorotetrafluoroethane
Concen: 8.443 ppbv
RT: 1.564 min Scan# 456
Delta R.T. 0.013 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 85 Resp: 182884

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 60.9 | 52.4 | 78.6 |

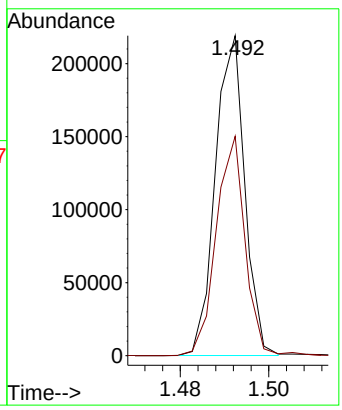





#9
Propene
Concen: 8.483 ppbv
RT: 1.492 min Scan# 4
Delta R.T. 0.010 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 41 Resp: 10103

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 67.9 | 55.4 | 83.2 |




**Instrument :**
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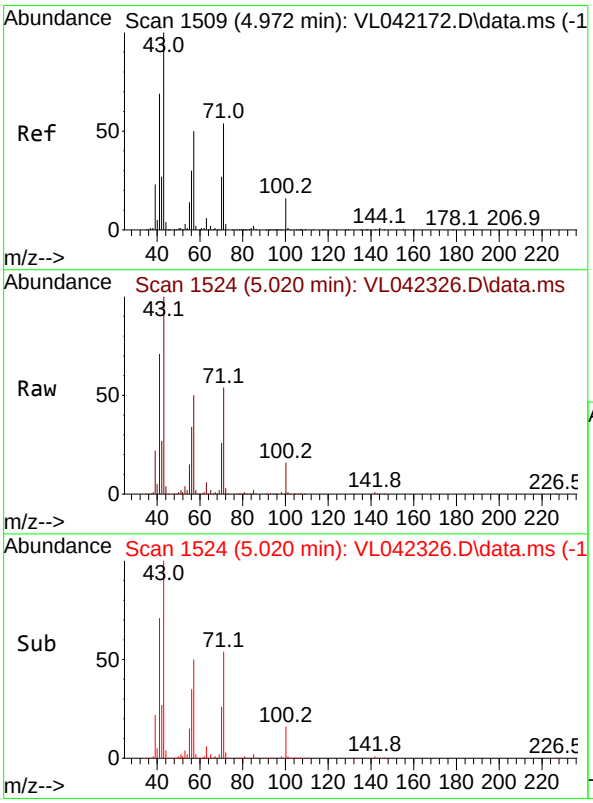
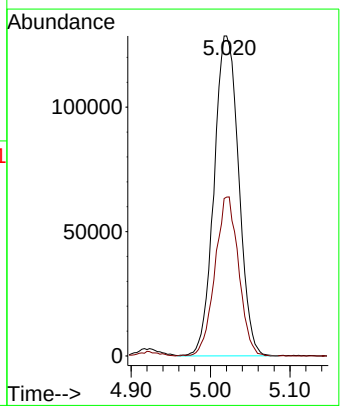
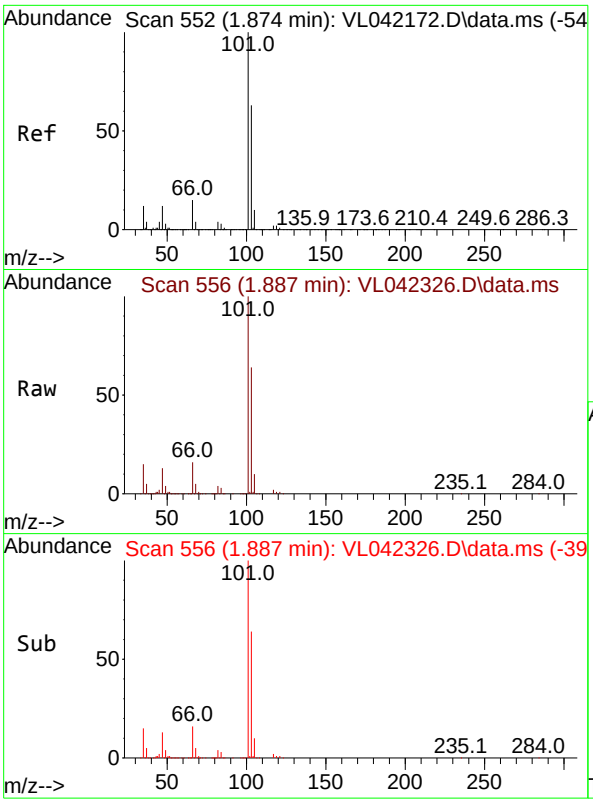



#10
Heptane
Concen: 8.736 ppbv
RT: 5.020 min Scan# 1524
Delta R.T. 0.048 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 43 Resp: 276748

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 47.8 | 39.4 | 59.2 |

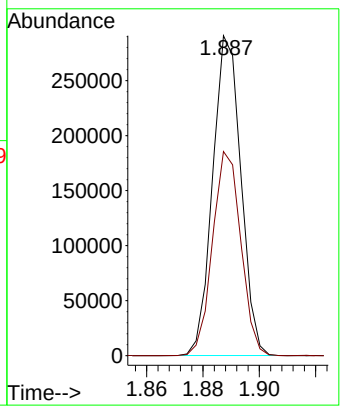





#11
Trichlorofluoromethane
Concen: 8.178 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.013 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion:101 Resp: 20238

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.8 | 50.2 | 75.2 |




**Instrument :**
MSVOA_L
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VSTDCCC010

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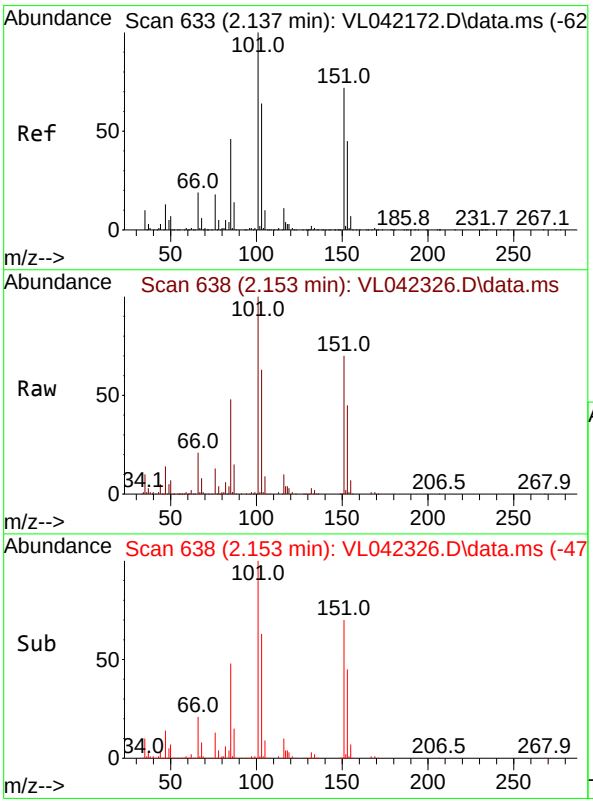
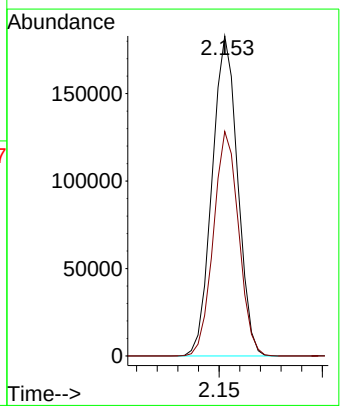
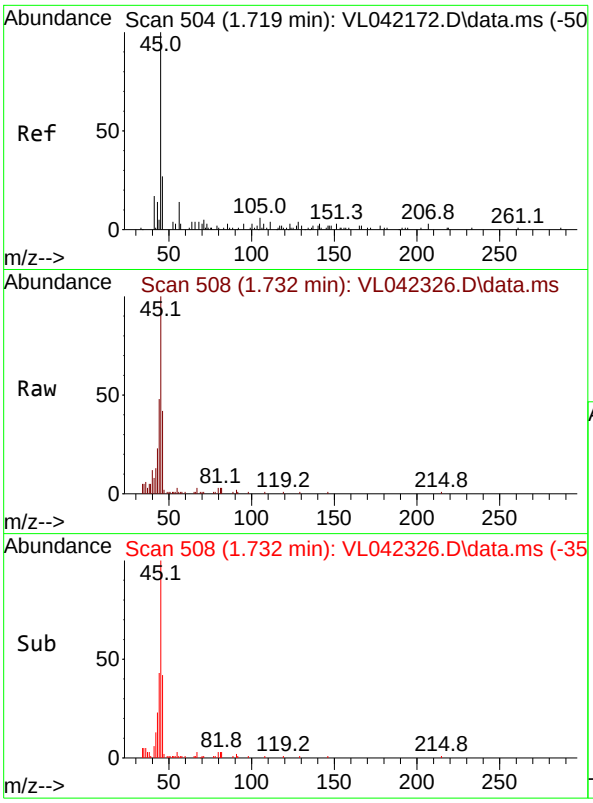



#12
1,1,2-Trichlorotrifluoroethane
Concen: 7.719 ppbv
RT: 2.153 min Scan# 638
Delta R.T. 0.016 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion:101 Resp: 157030

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 69.5 | 57.1 | 85.7 |

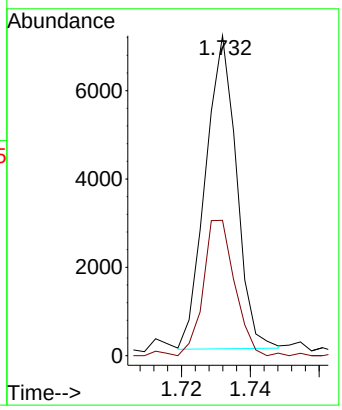





#13
Ethanol
Concen: 3.944 ppbv
RT: 1.732 min Scan# 5(
Delta R.T. 0.013 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 45 Resp: 444(

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 45.7 | 20.2 | 80.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

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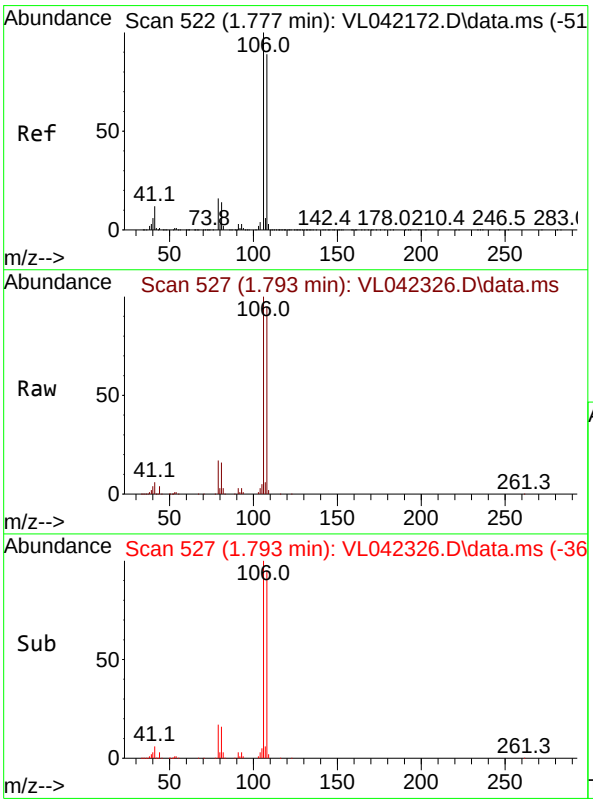
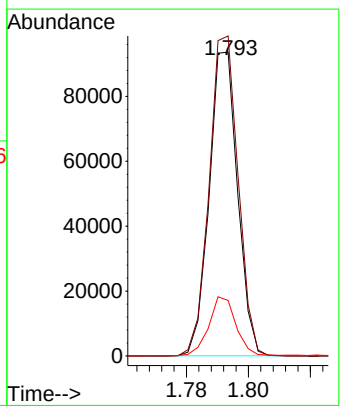
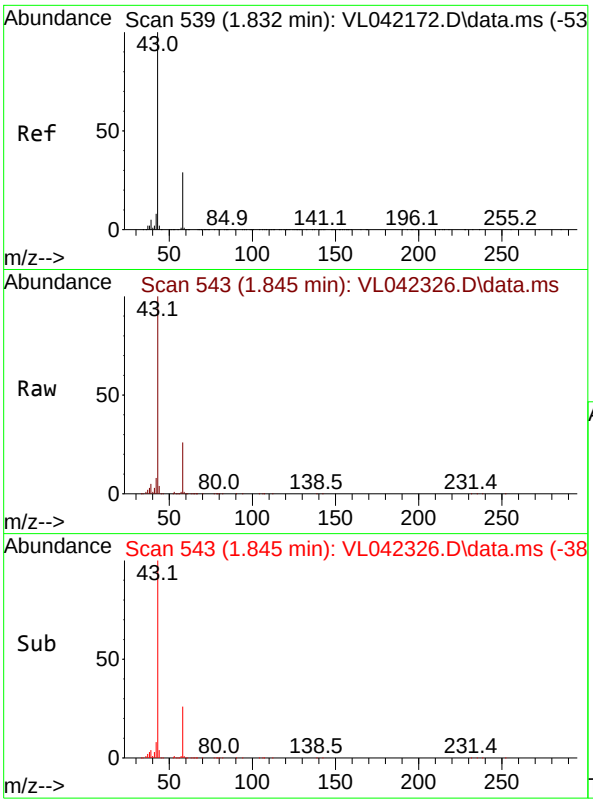



#14
Bromoethene
Concen: 7.646 ppbv
RT: 1.793 min Scan# 527
Delta R.T. 0.016 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion:108 Resp: 59588

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 106 | 107.3 | 86.8 | 130.2 |
| 79 | 19.2 | 15.0 | 22.6 |

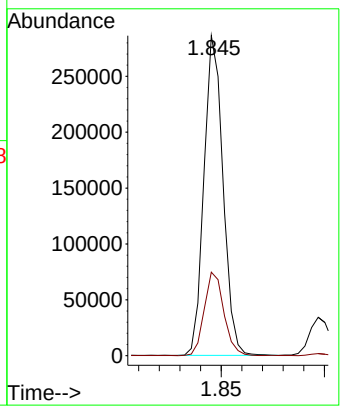





#15
Acetone
Concen: 7.614 ppbv
RT: 1.845 min Scan# 54
Delta R.T. 0.013 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 43 Resp: 18343

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 27.0 | 23.2 | 34.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

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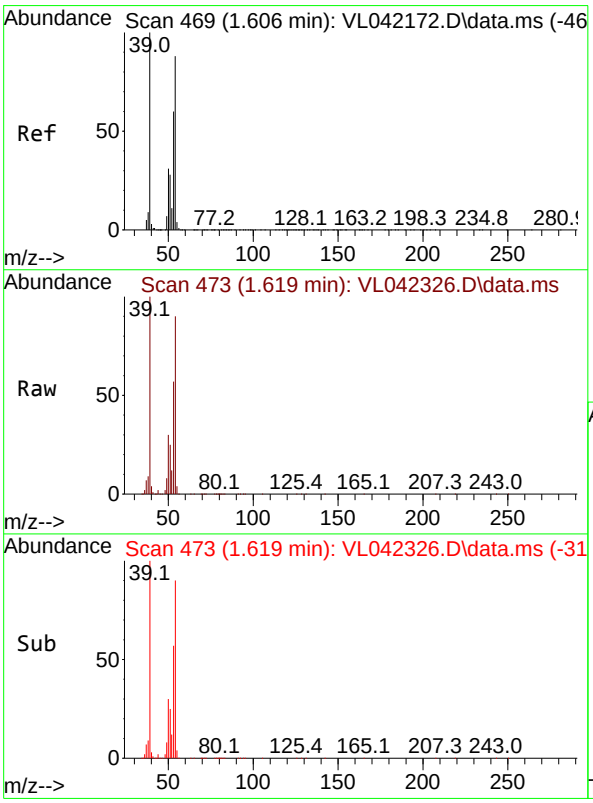
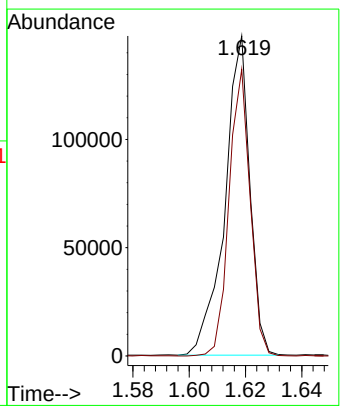
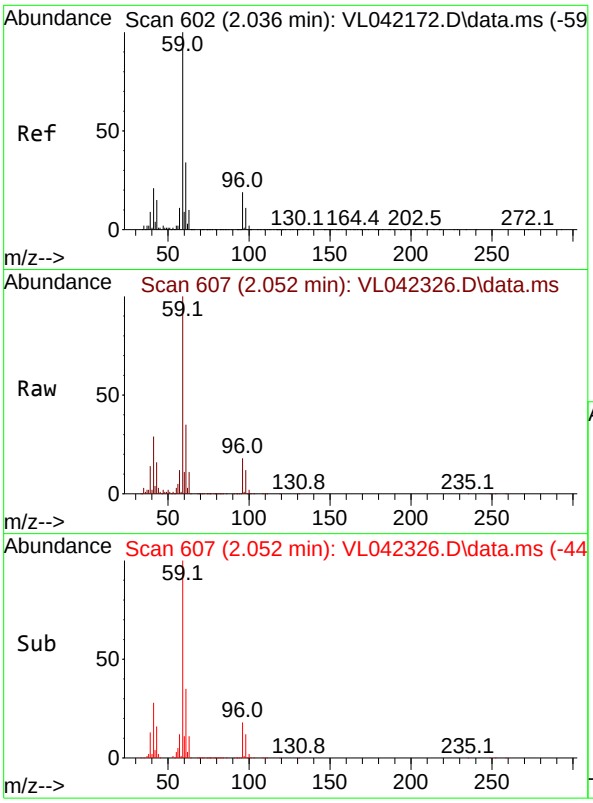



#16
1,3-Butadiene
Concen: 7.731 ppbv
RT: 1.619 min Scan# 473
Delta R.T. 0.013 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 39 Resp: 90954

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 75.6 | 60.7 | 91.1 |

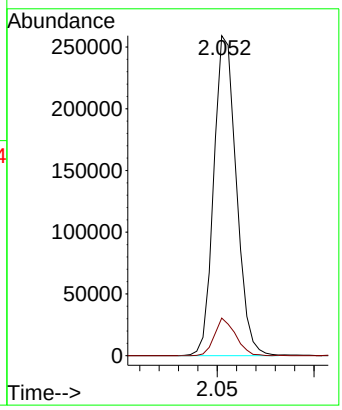





#17
tert-Butyl alcohol
Concen: 6.990 ppbv
RT: 2.052 min Scan# 6
Delta R.T. 0.016 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 59 Resp: 20973

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 11.0 | 8.9 | 13.3 |




**Instrument :**
MSVOA_L
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VSTDCCC010

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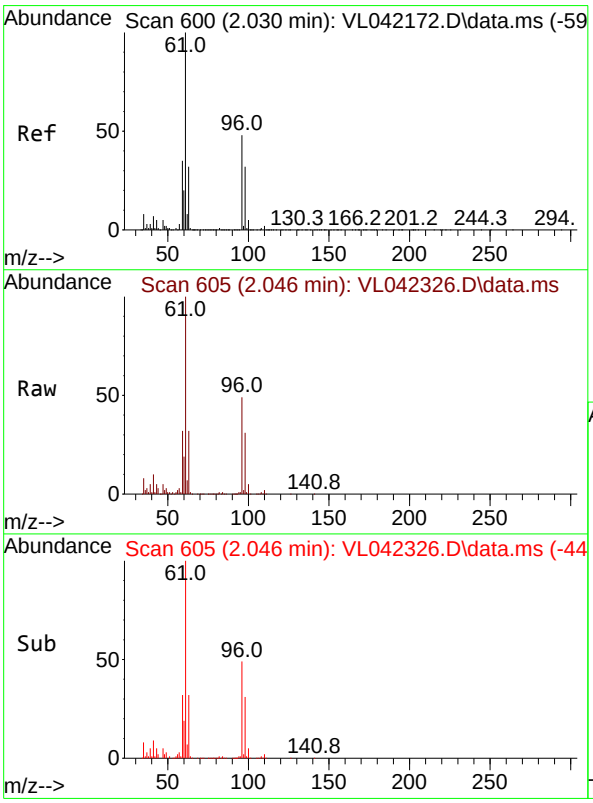
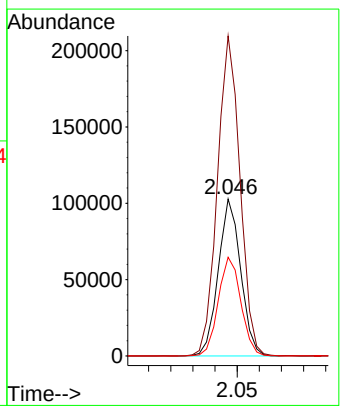
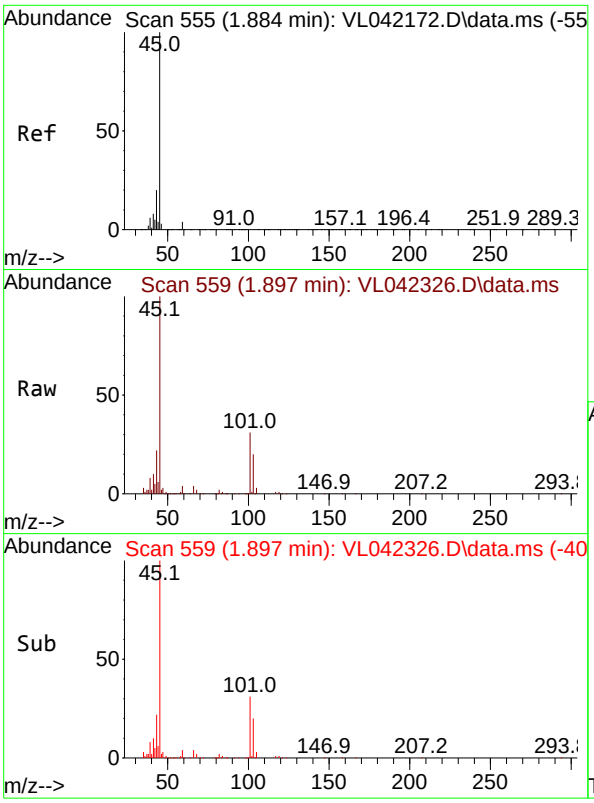



#18
1,1-Dichloroethene
Concen: 7.605 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.016 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 96 Resp: 72322

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 203.8 | 167.6 | 251.4 |
| 98 | 62.9 | 53.5 | 80.3 |

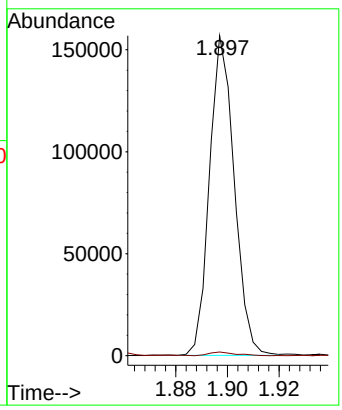





#19
Isopropyl Alcohol
Concen: 7.682 ppbv
RT: 1.897 min Scan# 5
Delta R.T. 0.013 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 45 Resp: 10442

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 47.5 | 36.9 | 55.3 |




**Instrument :**
MSVOA_L
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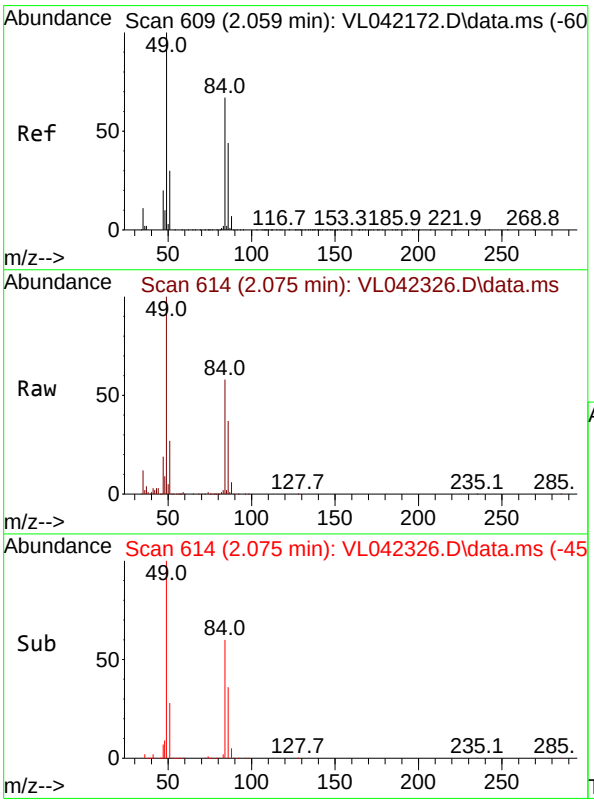
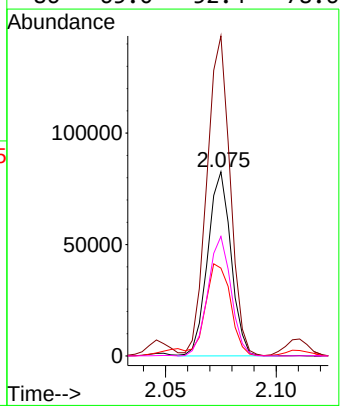
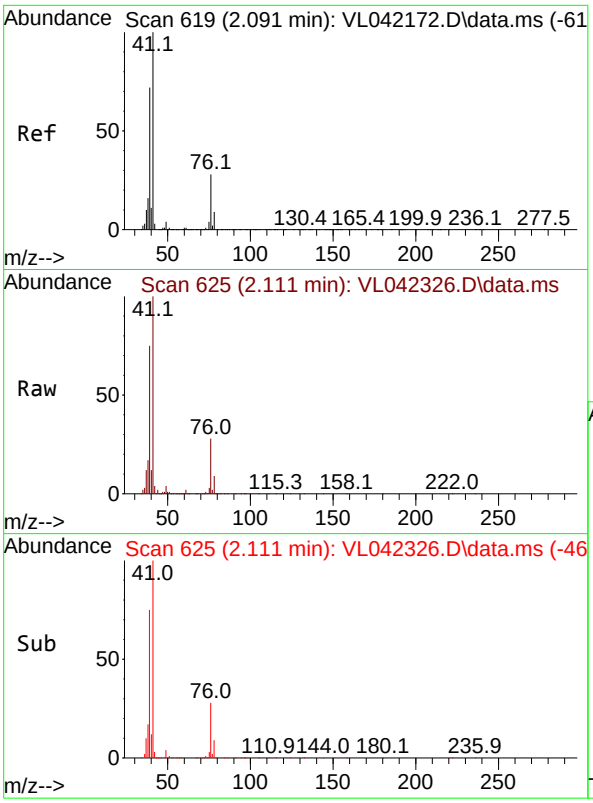



#20
Methylene Chloride
Concen: 6.725 ppbv
RT: 2.075 min Scan# 614
Delta R.T. 0.016 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 84 Resp: 60337

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 172.1 | 120.2 | 180.4 |
| 51 | 47.0 | 37.4 | 56.0 |
| 86 | 65.0 | 52.4 | 78.6 |

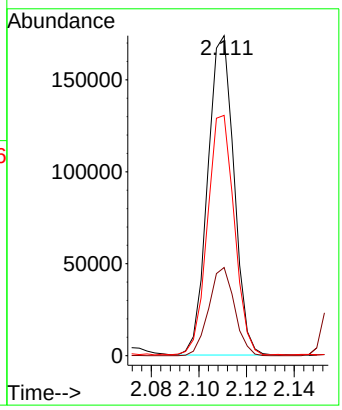





#21
Allyl Chloride
Concen: 7.825 ppbv
RT: 2.111 min Scan# 6
Delta R.T. 0.019 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 41 Resp: 13295

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 27.1 | 24.1 | 36.1 |
| 39 | 76.9 | 61.1 | 91.7 |




**Instrument :**
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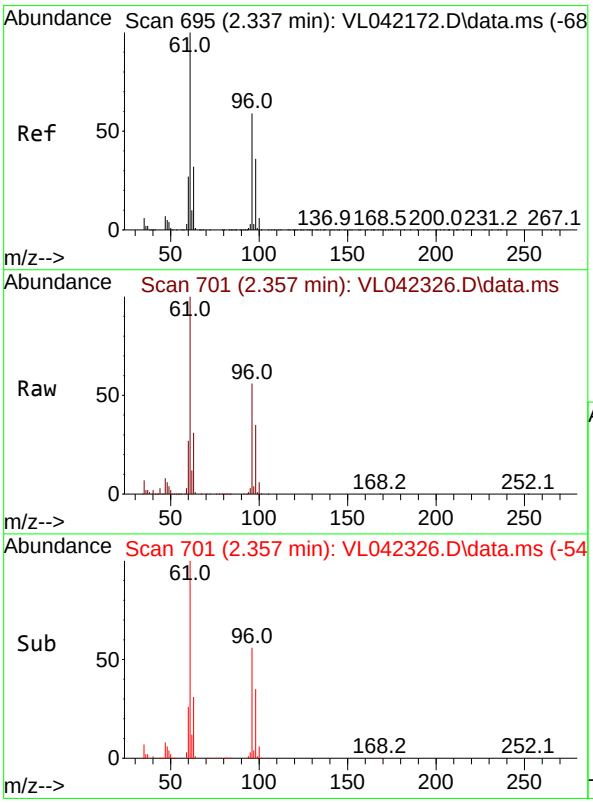
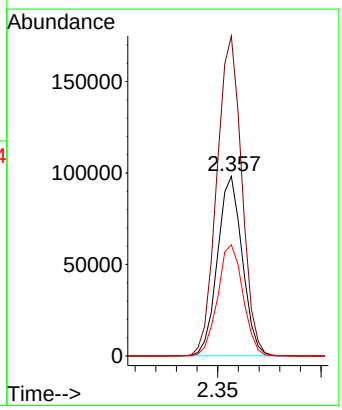
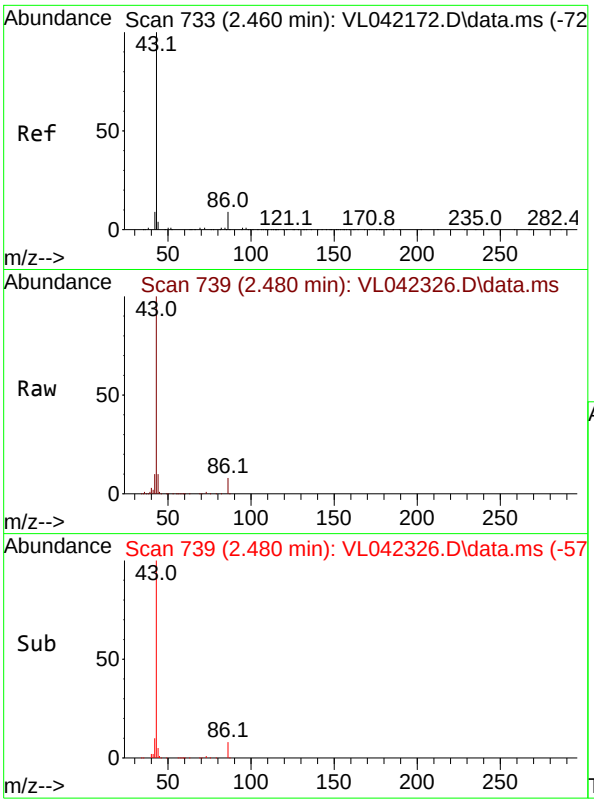



#22
trans-1,2-Dichloroethene
Concen: 7.422 ppbv
RT: 2.357 min Scan# 701
Delta R.T. 0.019 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 96 Resp: 81572

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 178.1 | 136.6 | 204.8 |
| 98 | 61.9 | 49.4 | 74.2 |

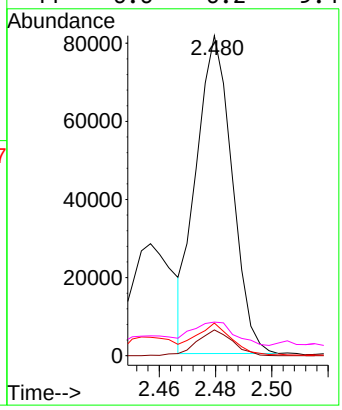





#23
Vinyl Acetate
Concen: 6.920 ppbv
RT: 2.480 min Scan# 7
Delta R.T. 0.019 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 43 Resp: 7216

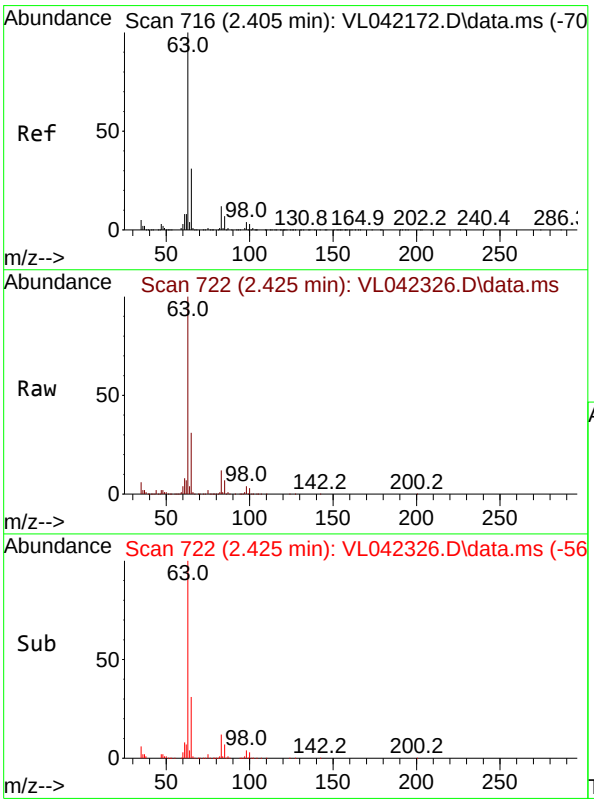
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 8.1 | 5.5 | 8.3 |
| 42 | 9.8 | 8.6 | 13.0 |
| 44 | 6.6 | 6.2 | 9.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
**APPROVED**

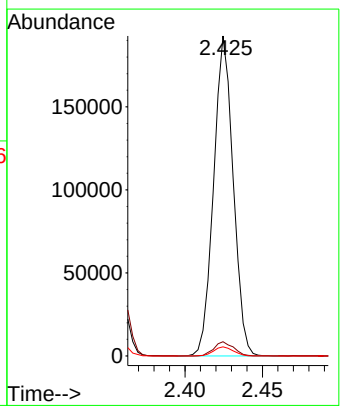
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

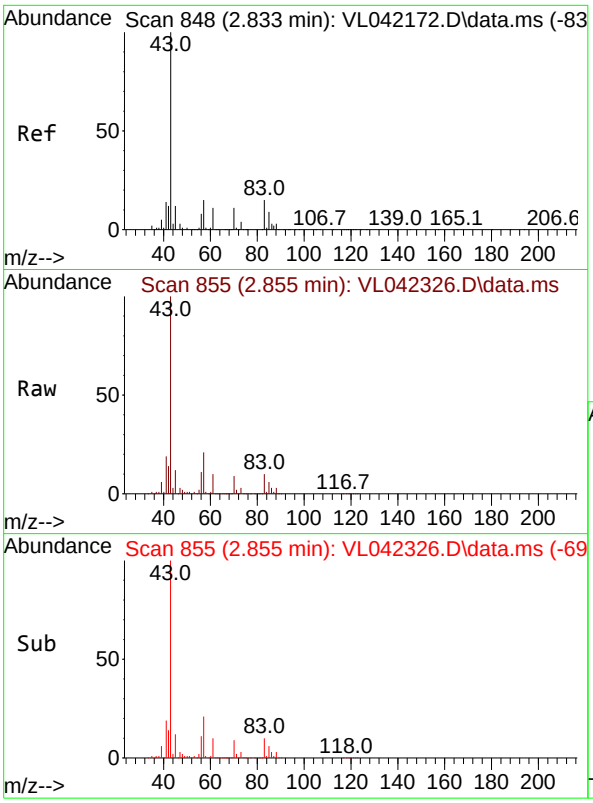



#24
1,1-Dichloroethane
Concen: 8.315 ppbv
RT: 2.425 min Scan# 722
Delta R.T. 0.019 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 63 Resp: 169411

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 4.4 | 2.3 | 6.8 |
| 100 | 2.8 | 1.6 | 4.7 |

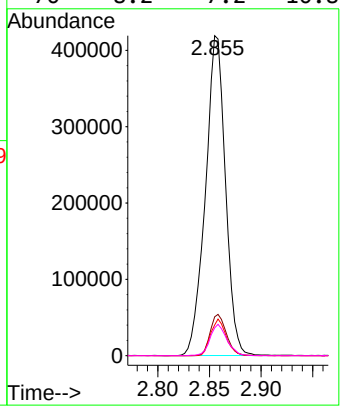





#25
Ethyl Acetate
Concen: 9.030 ppbv
RT: 2.855 min Scan# 8
Delta R.T. 0.023 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 43 Resp: 56461

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 10.4 | 8.2 | 12.2 |
| 61 | 9.0 | 7.3 | 10.9 |
| 70 | 8.2 | 7.2 | 10.8 |




**Instrument :**
MSVOA_L
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VSTDCCC010

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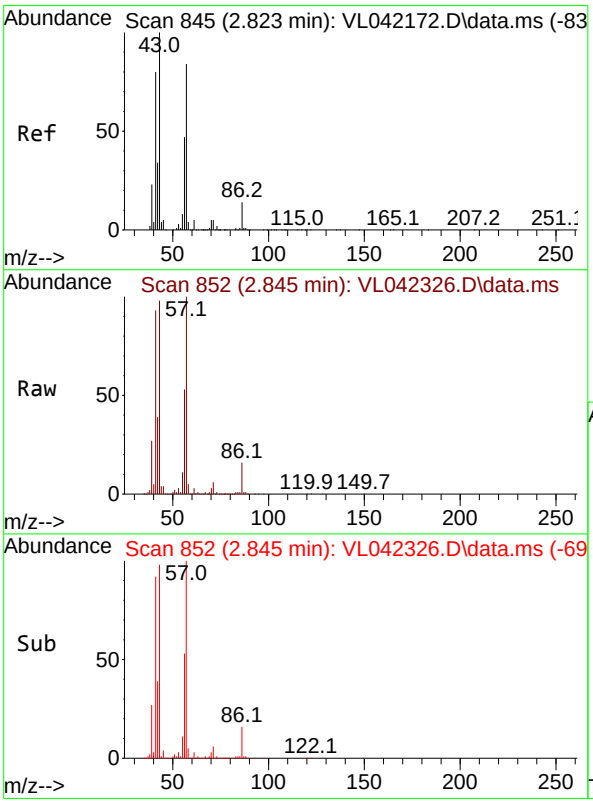
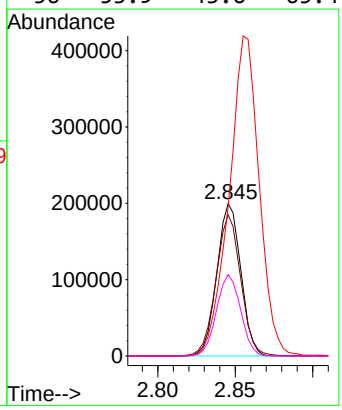
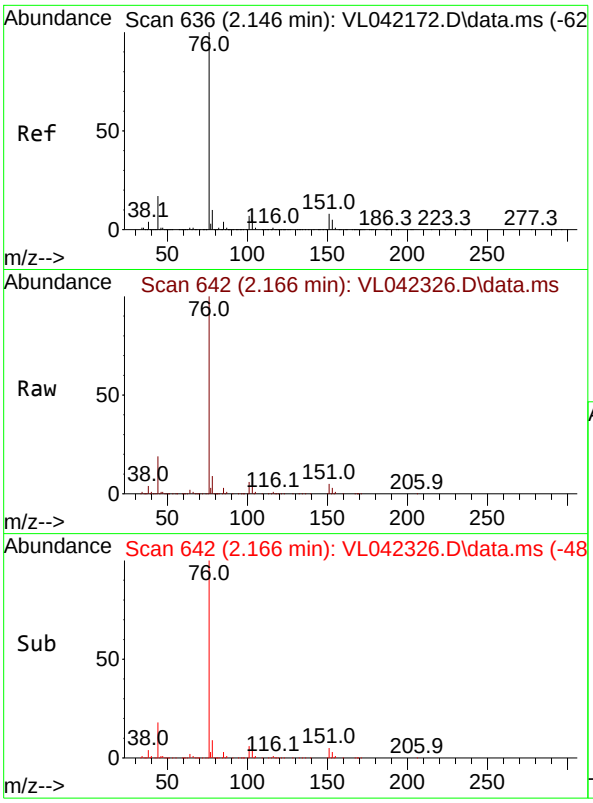



#26
Hexane
Concen: 8.851 ppbv
RT: 2.845 min Scan# 852
Delta R.T. 0.023 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 57 Resp: 213782

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 95.9 | 76.6 | 114.8 |
| 43 | 264.9 | 207.8 | 311.8 |
| 56 | 53.9 | 43.6 | 65.4 |






#27
Carbon Disulfide
Concen: 7.547 ppbv
RT: 2.166 min Scan# 64
Delta R.T. 0.019 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 76 Resp: 19545

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 20.1 | 14.7 | 22.1 |
| 78 | 11.2 | 9.3 | 13.9 |

**Instrument :**
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VSTDCCC010

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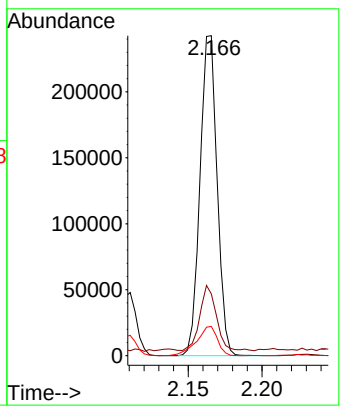
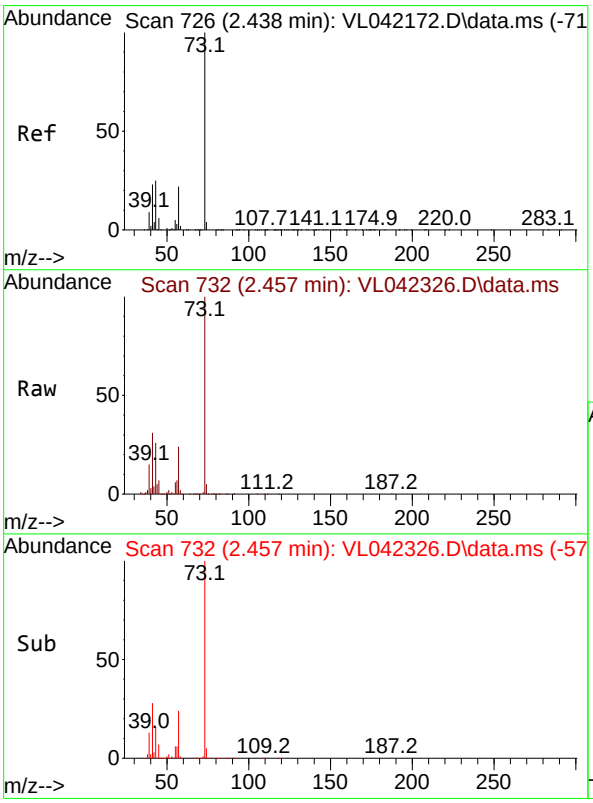
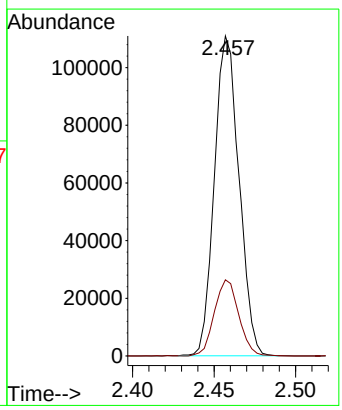


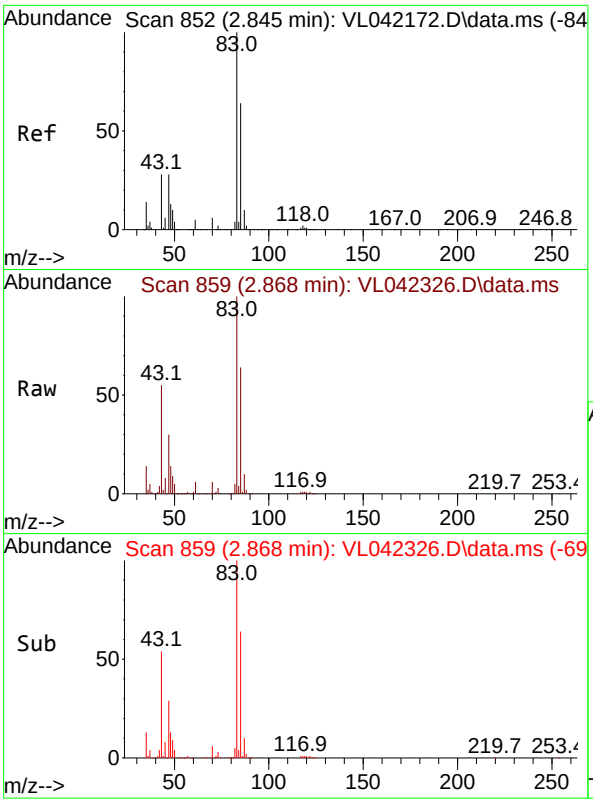




#28
Methyl tert-Butyl Ether
Concen: 7.734 ppbv
RT: 2.457 min Scan# 732
Delta R.T. 0.019 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 73 Resp: 116301

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 23.7 | 20.5 | 30.7 |






#29
Chloroform
Concen: 8.888 ppbv
RT: 2.868 min Scan# 8
Delta R.T. 0.023 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 83 Resp: 31416

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.2 | 51.4 | 77.2 |

**Instrument :**
MSVOA_L
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VSTDCCC010

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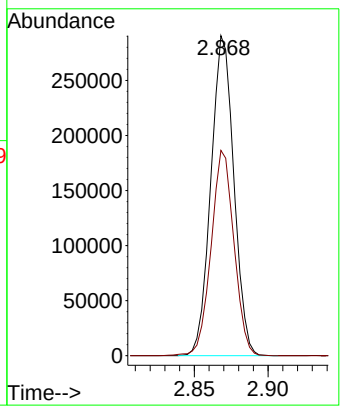
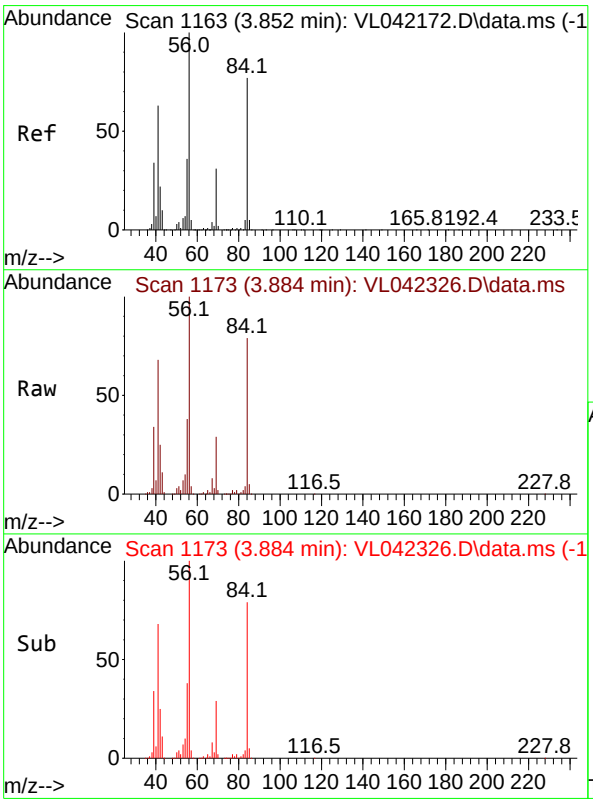
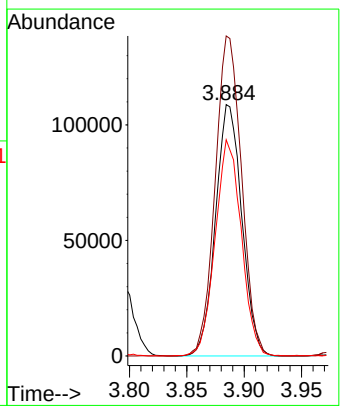


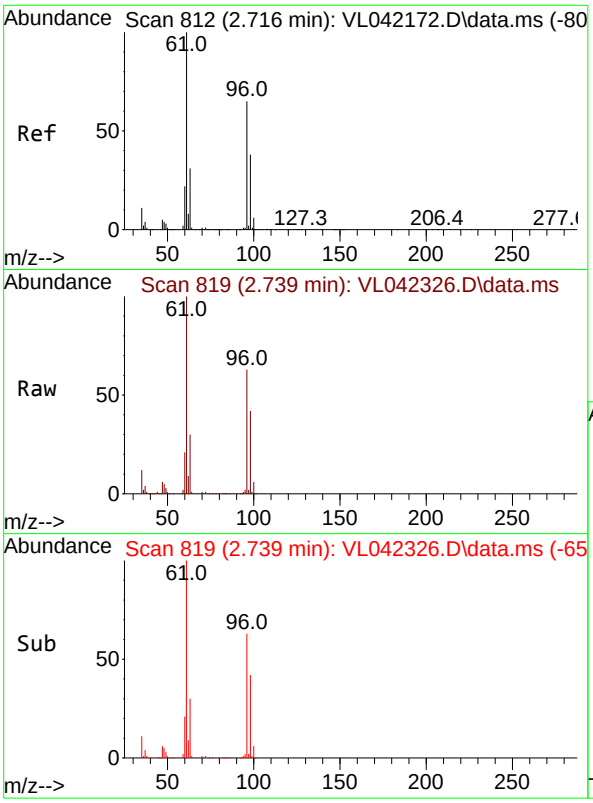




#30
Cyclohexane
Concen: 8.266 ppbv
RT: 3.884 min Scan# 1173
Delta R.T. 0.032 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 84 Resp: 173360

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 127.7 | 102.8 | 154.2 |
| 41 | 85.6 | 66.5 | 99.7 |

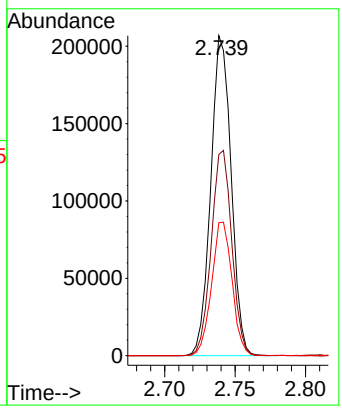





#31
cis-1,2-Dichloroethene
Concen: 8.490 ppbv
RT: 2.739 min Scan# 8
Delta R.T. 0.023 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 61 Resp: 20816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 62.9 | 51.8 | 77.8 |
| 98 | 41.5 | 30.6 | 46.0 |




**Instrument :**
MSVOA_L
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VSTDCCC010

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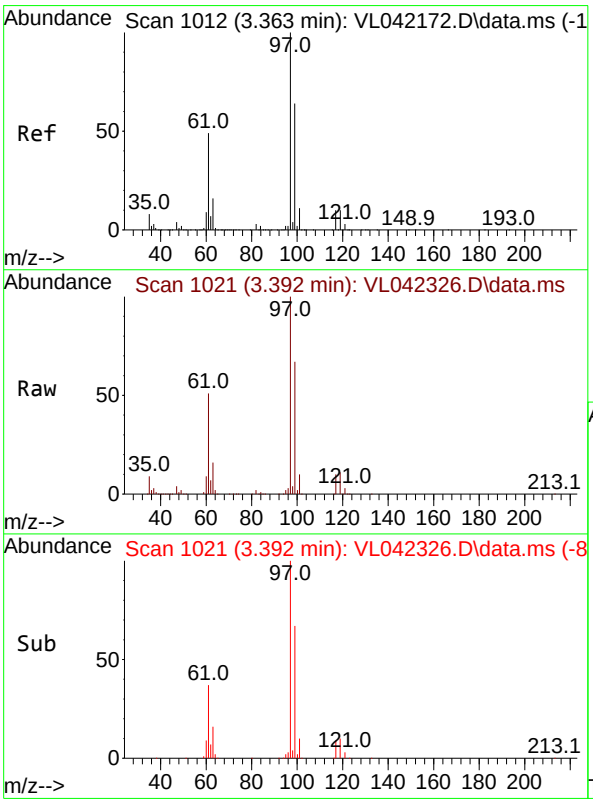
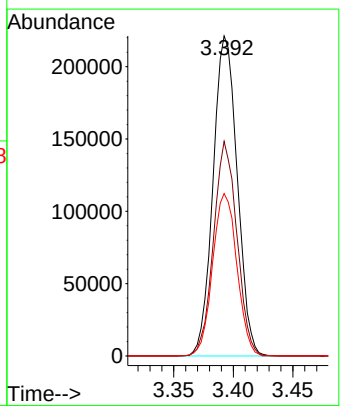
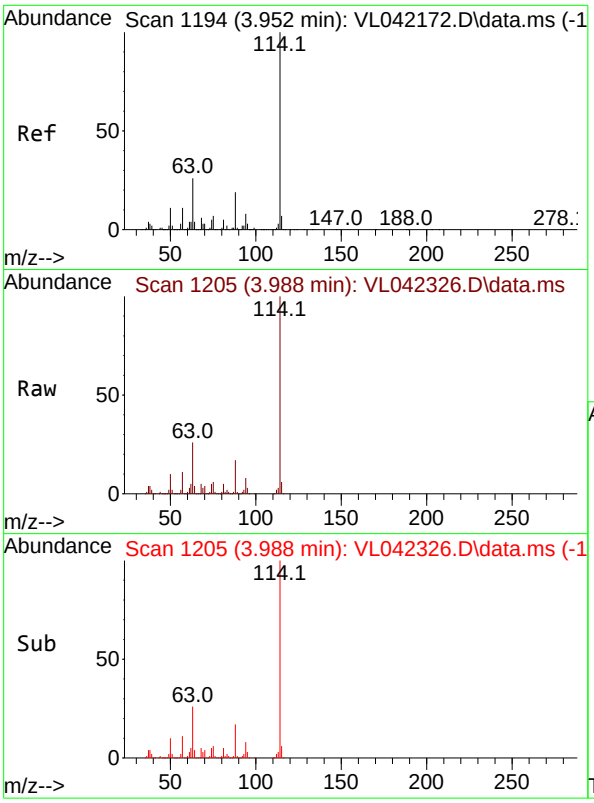



#32
1,1,1-Trichloroethane
Concen: 7.704 ppbv
RT: 3.392 min Scan# 1021
Delta R.T. 0.029 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 97 Resp: 311758

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.8 | 51.5 | 77.3 |
| 61 | 51.1 | 38.7 | 58.1 |






#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.988 min Scan# 1
Delta R.T. 0.035 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion:114 Resp: 45722

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.4 | 20.7 | 31.1 |
| 88 | 17.7 | 15.0 | 22.4 |

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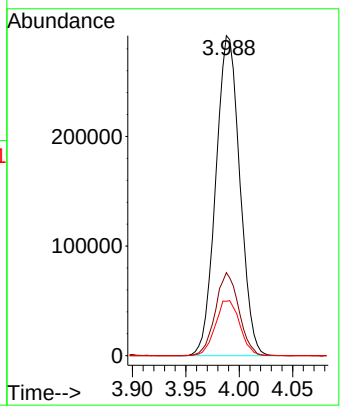
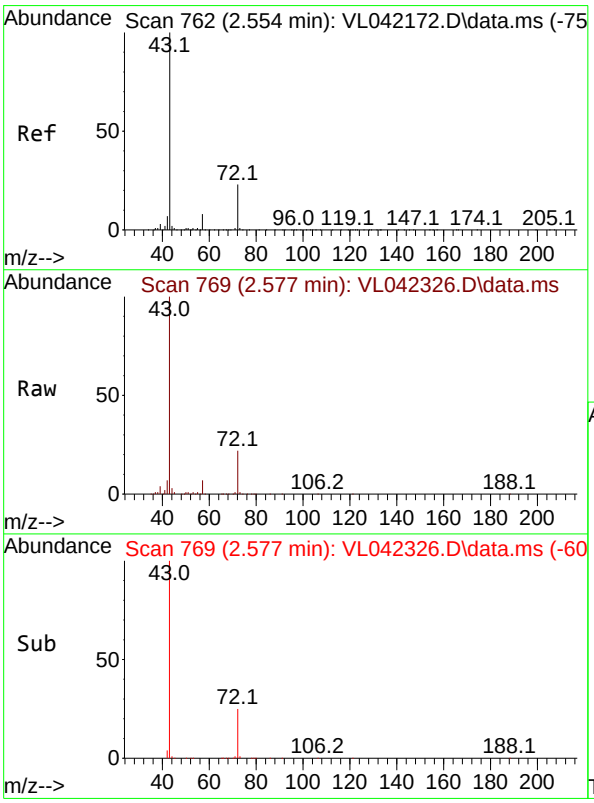
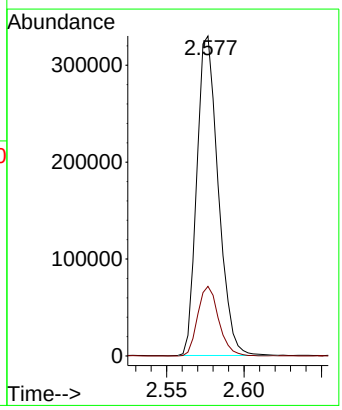


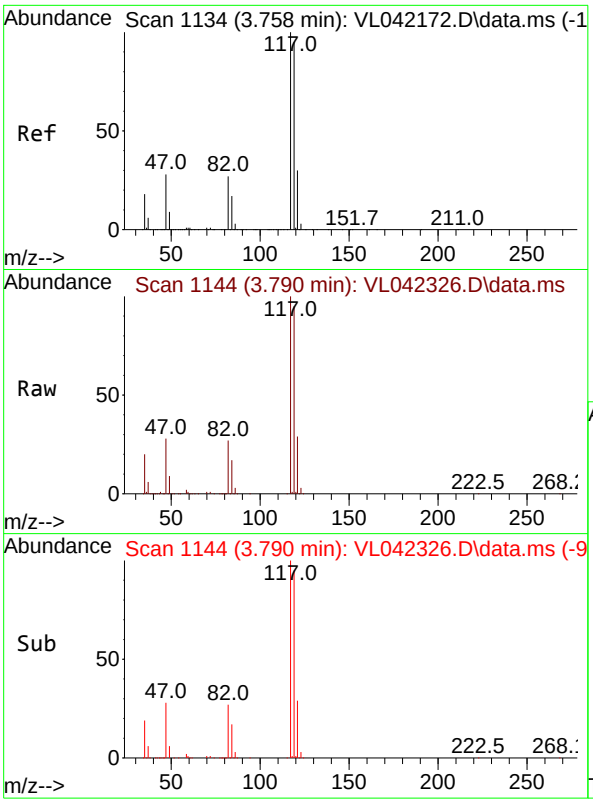




#34
2-Butanone
Concen: 9.565 ppbv
RT: 2.577 min Scan# 769
Delta R.T. 0.023 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 43 Resp: 317117

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 21.5 | 18.2 | 27.2 |






#35
Carbon Tetrachloride
Concen: 8.902 ppbv
RT: 3.790 min Scan# 1
Delta R.T. 0.032 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion:117 Resp: 31794

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 94.9 | 76.2 | 114.2 |
| 121 | 29.3 | 24.2 | 36.4 |

**Instrument :**
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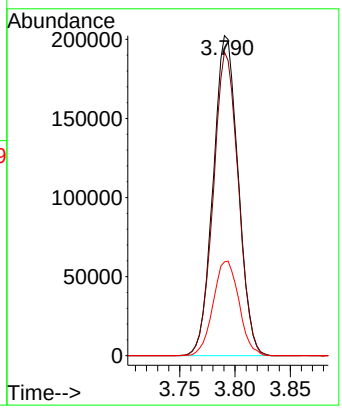
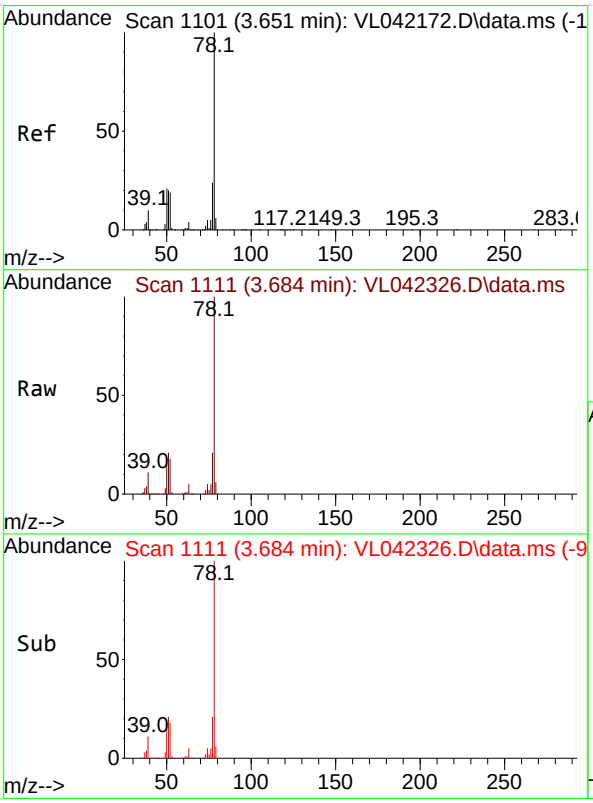
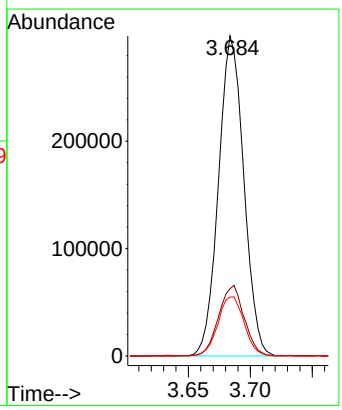


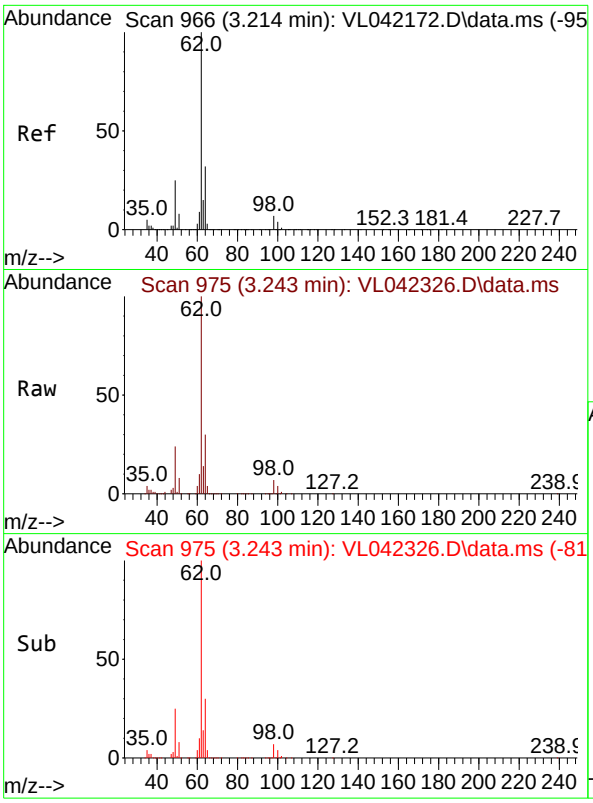




#36
Benzene
Concen: 9.360 ppbv
RT: 3.684 min Scan# 1111
Delta R.T. 0.032 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 78 Resp: 424254

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 20.9 | 19.1 | 28.7 |
| 50 | 18.4 | 16.6 | 24.8 |

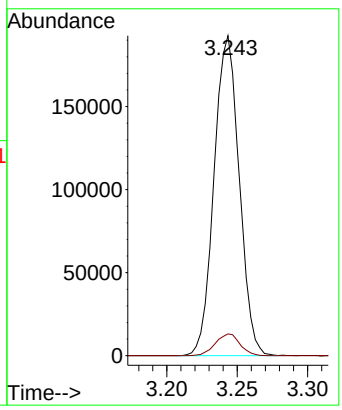





#37
1,2-Dichloroethane
Concen: 9.231 ppbv
RT: 3.243 min Scan# 9
Delta R.T. 0.029 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 62 Resp: 23955

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 6.7 | 5.4 | 8.2 |




**Instrument :**
MSVOA_L
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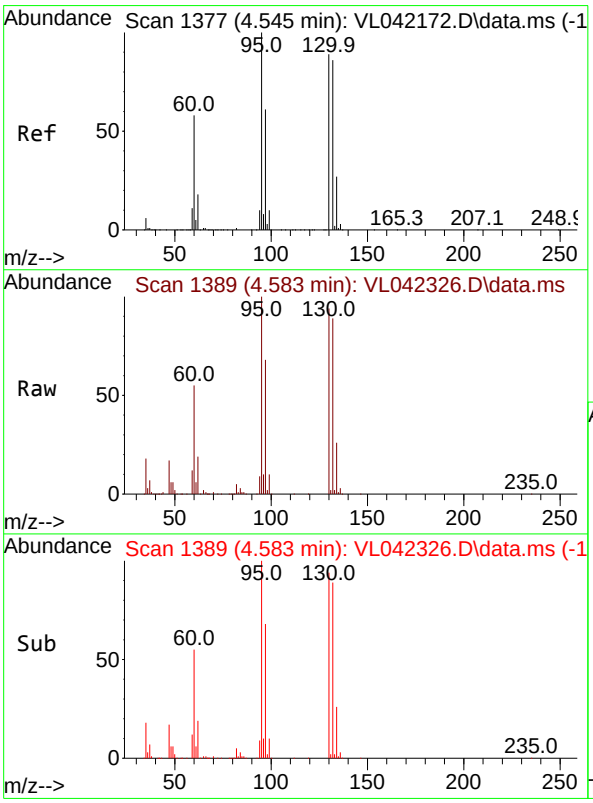
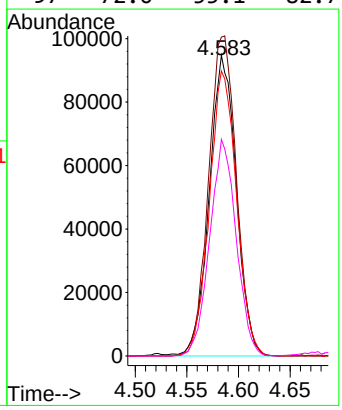
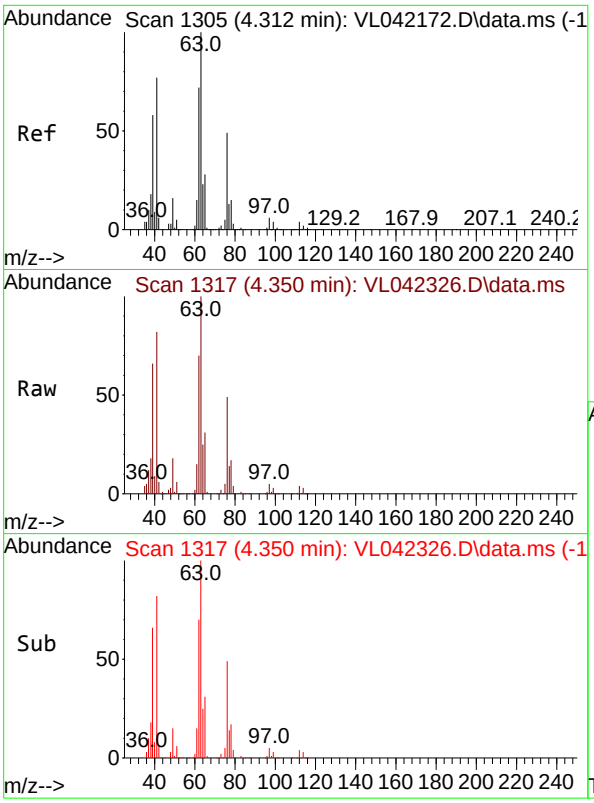



#38
Trichloroethene
Concen: 9.102 ppbv
RT: 4.583 min Scan# 1389
Delta R.T. 0.039 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion:130 Resp: 172146

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 106.1 | 89.8 | 134.8 |
| 132 | 94.8 | 77.4 | 116.2 |
| 97 | 72.0 | 55.1 | 82.7 |

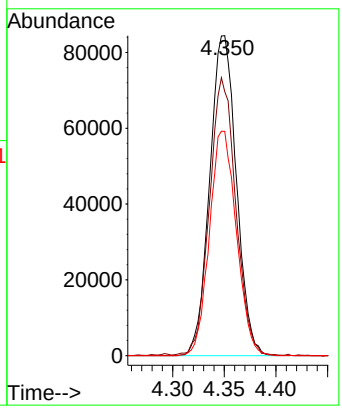





#39
1,2-Dichloropropane
Concen: 9.190 ppbv
RT: 4.350 min Scan# 1
Delta R.T. 0.039 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 63 Resp: 15170

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 82.3 | 61.7 | 92.5 |
| 62 | 70.1 | 57.6 | 86.4 |




**Instrument :**
MSVOA_L
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VSTDCCC010

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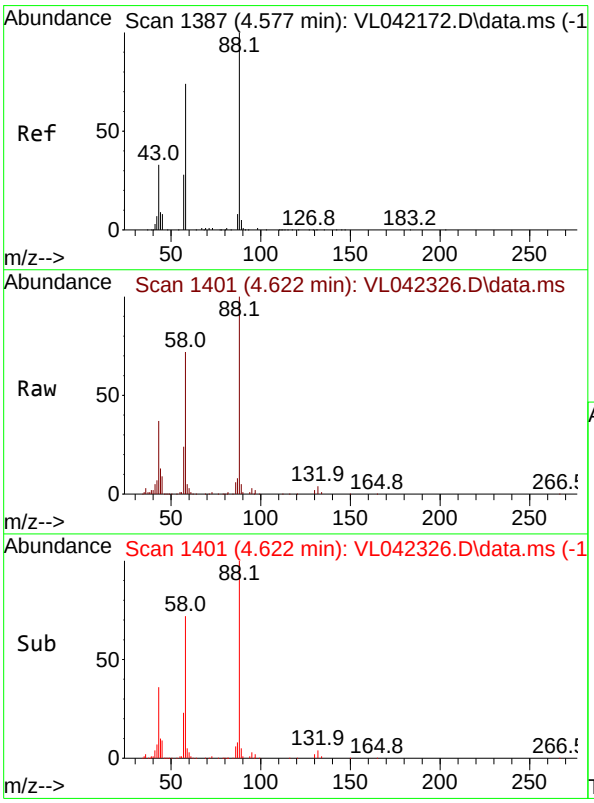
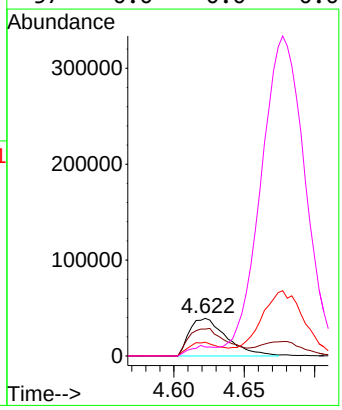
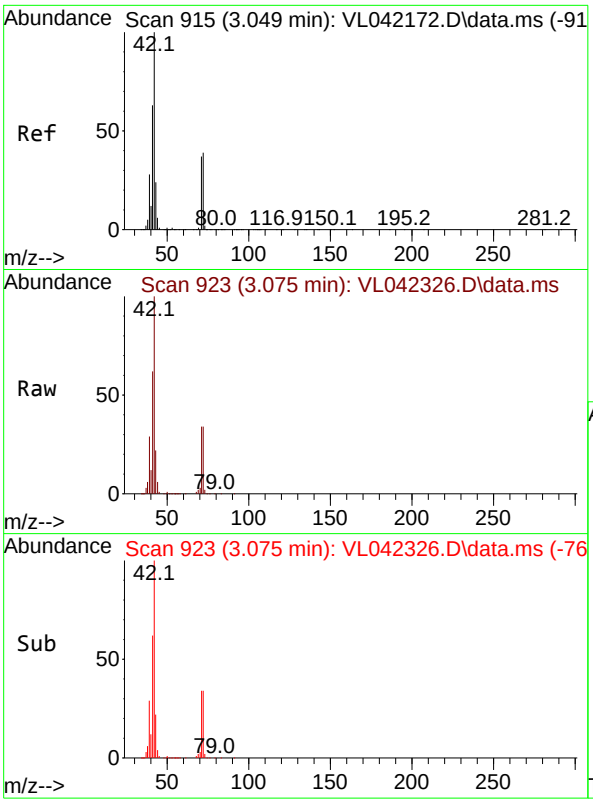



#40
1,4-Dioxane
Concen: 8.226 ppbv
RT: 4.622 min Scan# 1401
Delta R.T. 0.045 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 88 Resp: 72075

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 79.6 | 62.7 | 94.1 |
| 43 | 31.4 | 23.0 | 34.4 |
| 57 | 0.0 | 0.0 | 0.0 |

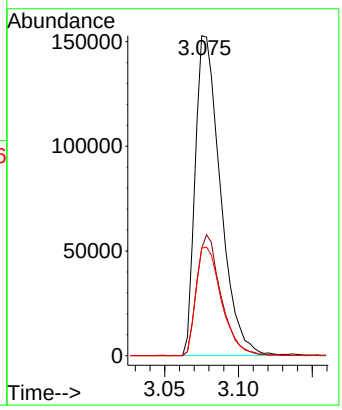





#41
Tetrahydrofuran
Concen: 9.505 ppbv
RT: 3.075 min Scan# 9
Delta R.T. 0.026 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 42 Resp: 18147

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 36.5 | 31.4 | 47.0 |
| 71 | 34.6 | 30.2 | 45.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
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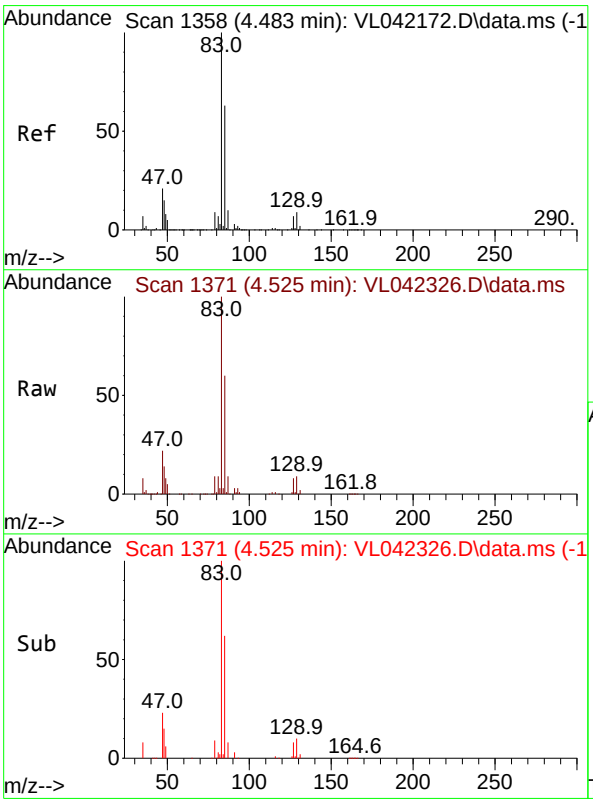
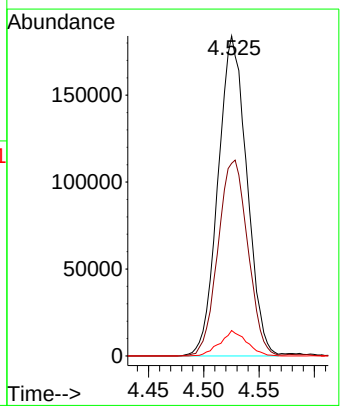
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

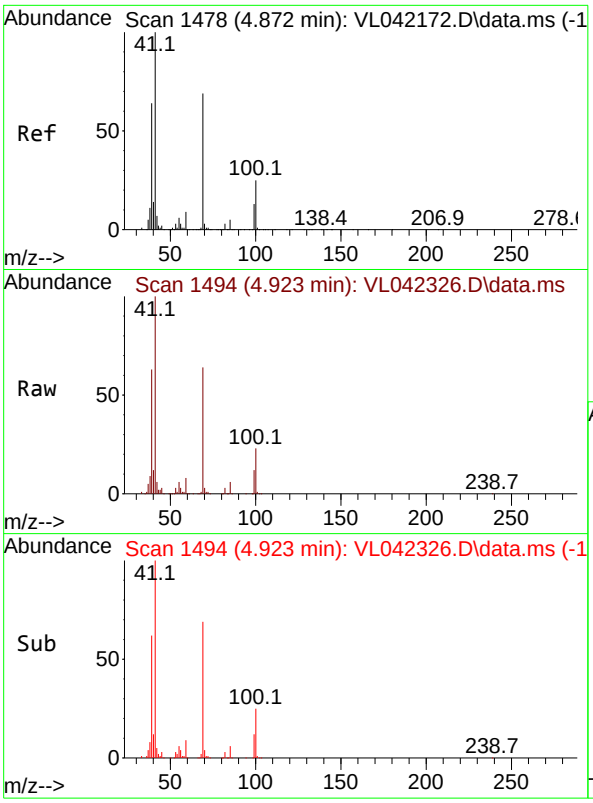



#42
Bromodichloromethane
Concen: 9.313 ppbv
RT: 4.525 min Scan# 1371
Delta R.T. 0.042 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 83 Resp: 333167

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 60.2 | 50.5 | 75.7 |
| 127 | 7.9 | 5.9 | 8.9 |






#43
Methyl Methacrylate
Concen: 8.098 ppbv
RT: 4.923 min Scan# 14
Delta R.T. 0.052 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 69 Resp: 15539

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 160.2 | 123.8 | 185.6 |
| 100 | 35.9 | 28.4 | 42.6 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
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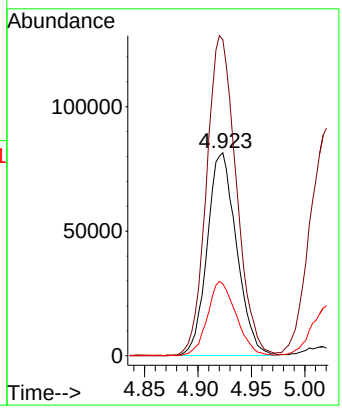
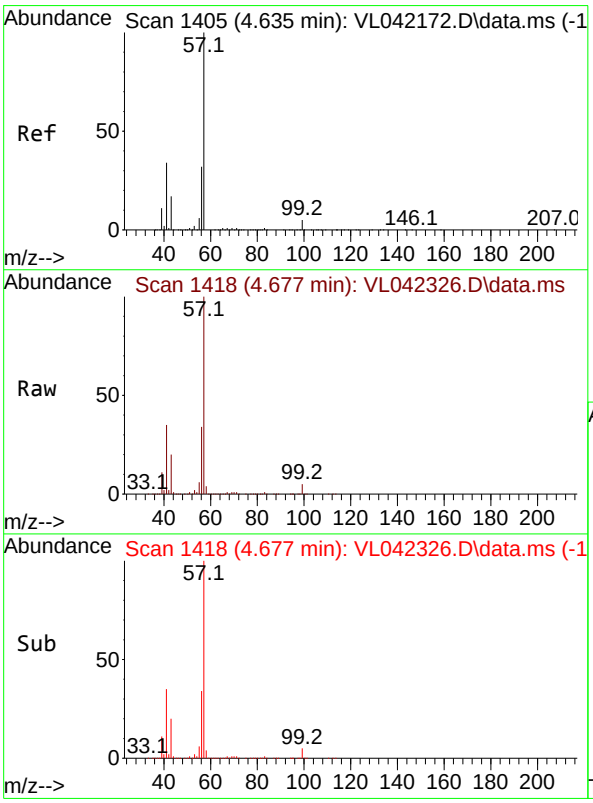
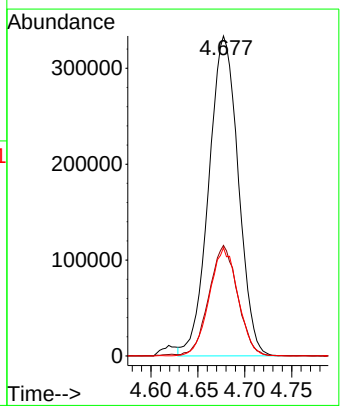


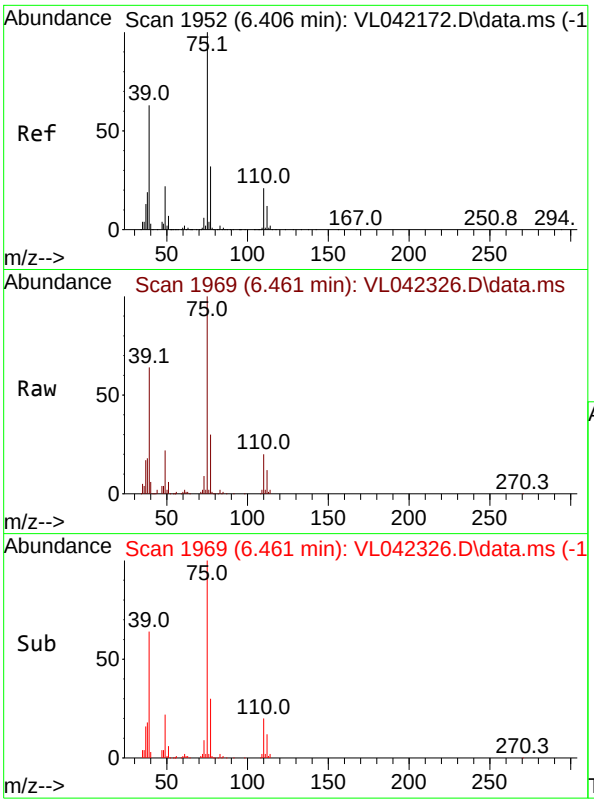




#44
2,2,4-Trimethylpentane
Concen: 9.511 ppbv
RT: 4.677 min Scan# 1418
Delta R.T. 0.042 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 57 Resp: 728571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 33.8 | 26.8 | 40.2 |
| 56 | 32.8 | 25.6 | 38.4 |

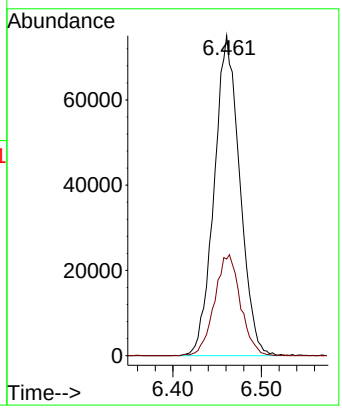





#45
t-1,3-Dichloropropene
Concen: 7.338 ppbv
RT: 6.461 min Scan# 1
Delta R.T. 0.055 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 75 Resp: 15106

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.2 | 26.0 | 39.0 |




**Instrument :**
MSVOA_L
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VSTDCCC010

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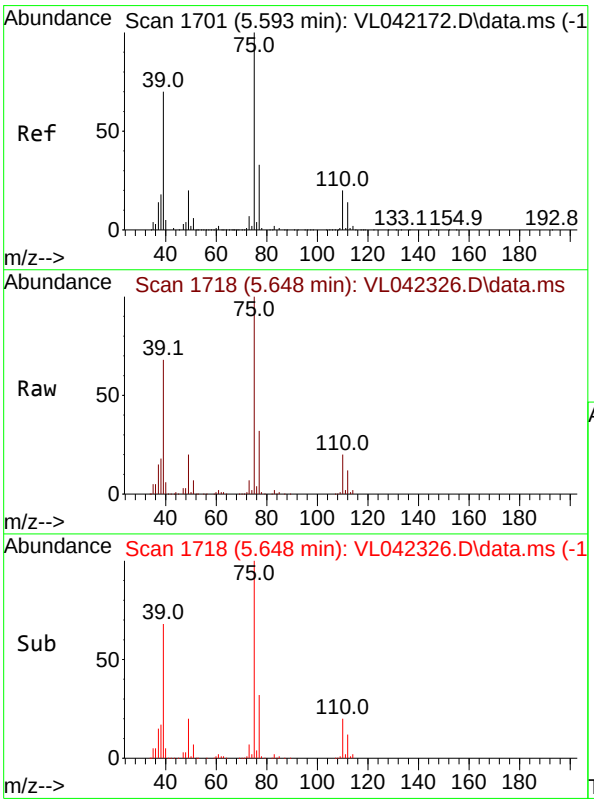
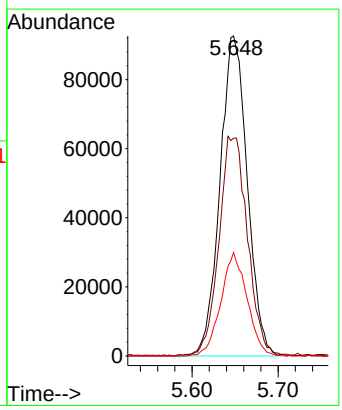
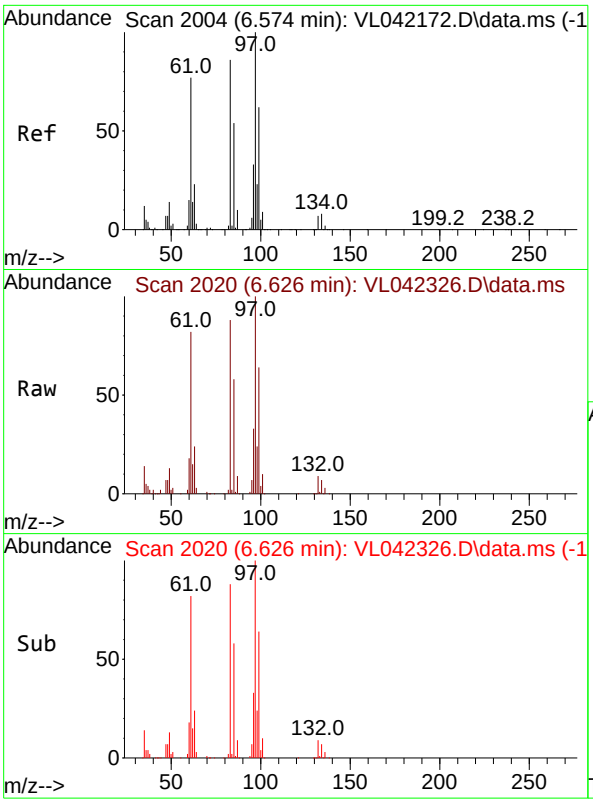



#46
cis-1,3-Dichloropropene
Concen: 8.097 ppbv
RT: 5.648 min Scan# 1718
Delta R.T. 0.055 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 75 Resp: 204339

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 39 | 67.6 | 55.8 | 83.6 |
| 77 | 32.3 | 26.0 | 39.0 |

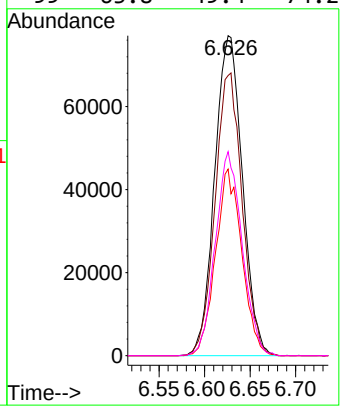





#47
1,1,2-Trichloroethane
Concen: 9.348 ppbv
RT: 6.626 min Scan# 2
Delta R.T. 0.052 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 97 Resp: 16313

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 87.6 | 69.2 | 103.8 |
| 85 | 58.3 | 43.1 | 64.7 |
| 99 | 63.8 | 49.4 | 74.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

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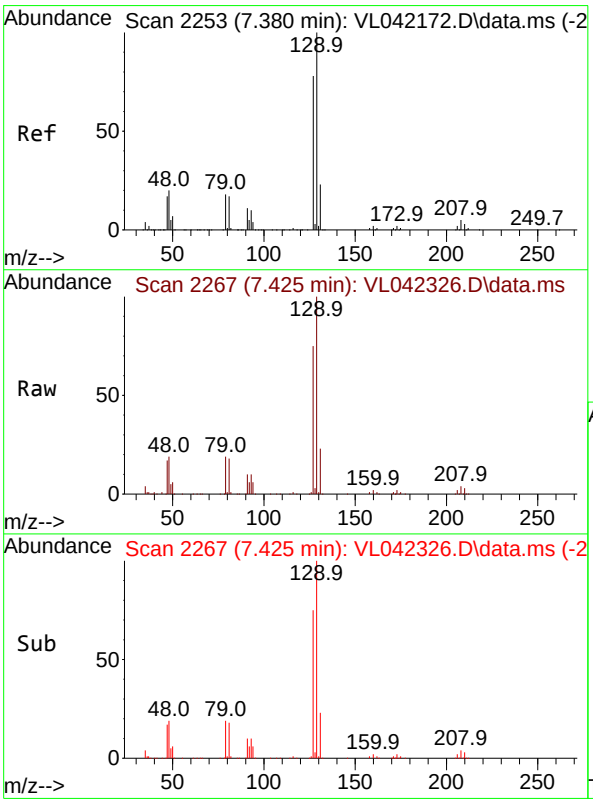
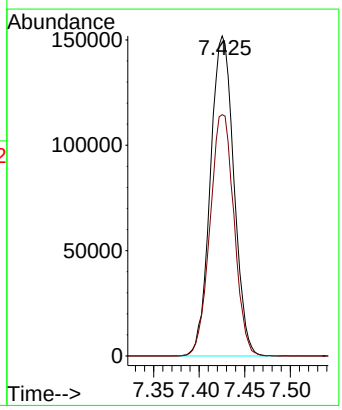
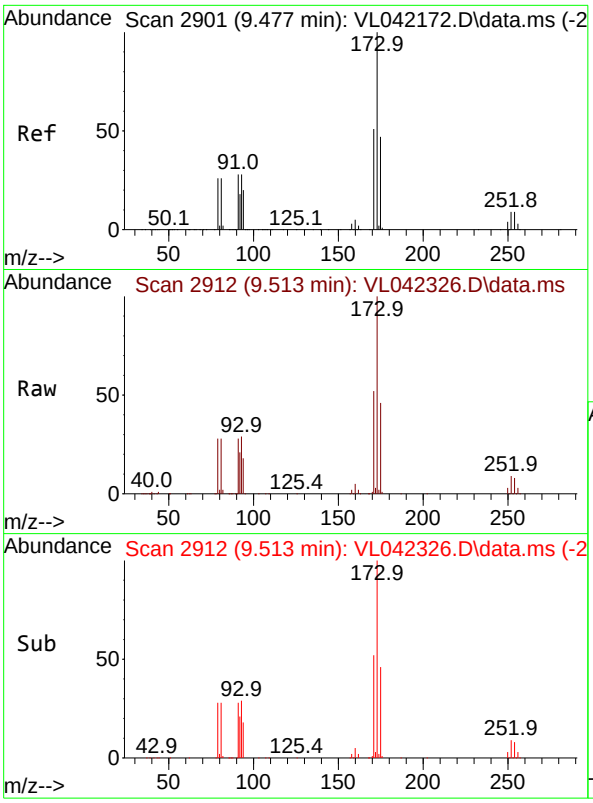



#48
Dibromochloromethane
Concen: 9.217 ppbv
RT: 7.425 min Scan# 2267
Delta R.T. 0.045 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion:129 Resp: 272592

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.0 | 39.1 | 117.2 |






#49
Bromoform
Concen: 8.997 ppbv
RT: 9.513 min Scan# 2
Delta R.T. 0.035 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion:173 Resp: 23888

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.1 | 38.6 | 57.8 |
| 171 | 51.7 | 41.8 | 62.6 |

**Instrument :**
MSVOA_L
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VSTDCCC010

**Manual Integrations**
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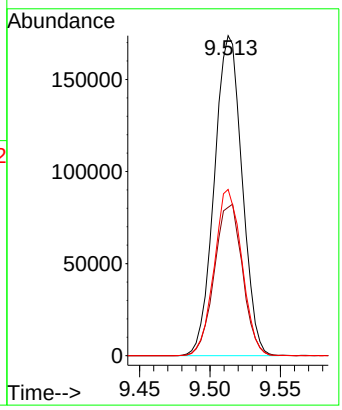
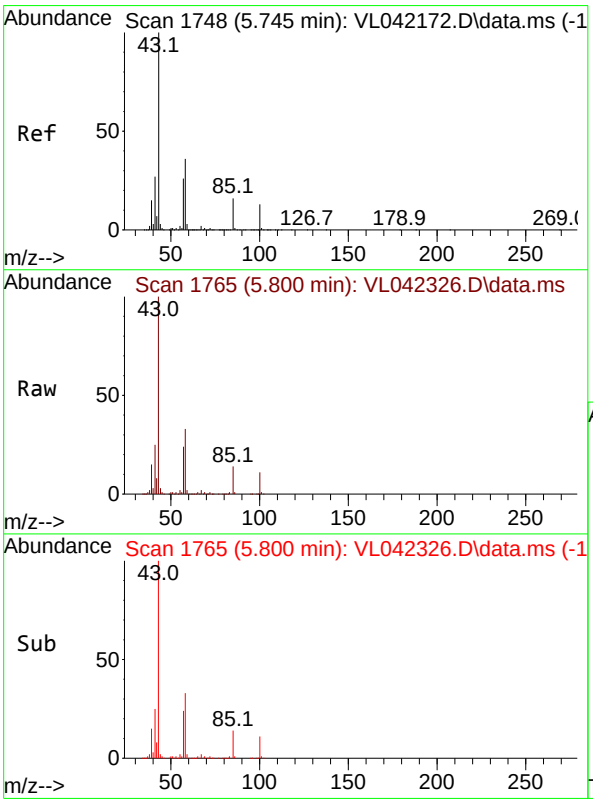
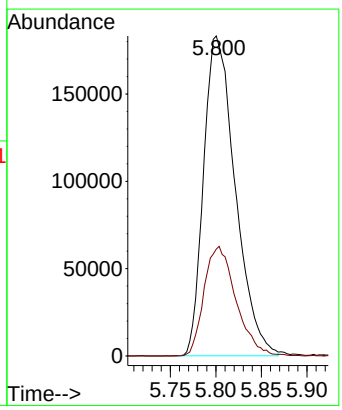


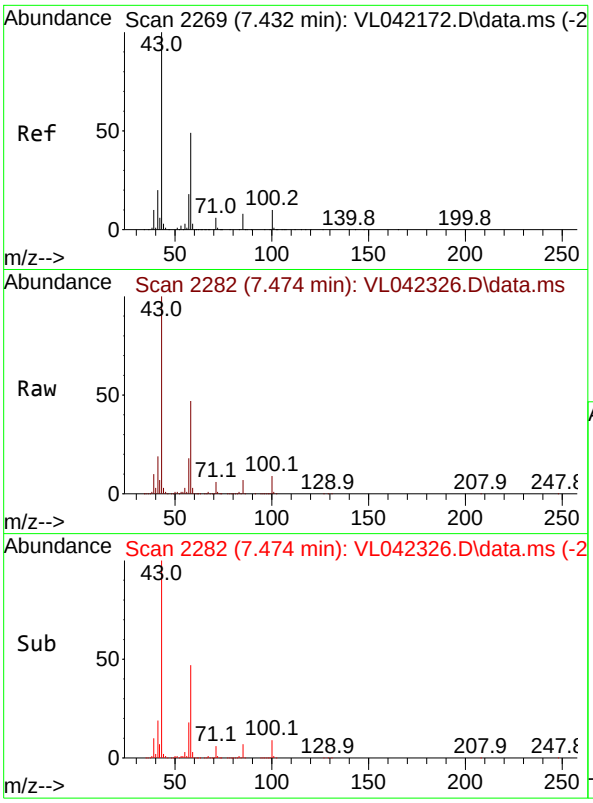




#50
4-Methyl-2-Pentanone
Concen: 8.428 ppbv
RT: 5.800 min Scan# 1765
Delta R.T. 0.055 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 43 Resp: 442851

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 34.6 | 29.0 | 43.6 |






#51
2-Hexanone
Concen: 8.192 ppbv
RT: 7.474 min Scan# 2
Delta R.T. 0.042 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 43 Resp: 35347

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 47.5 | 39.7 | 59.5 |
| 98 | 0.6 | 0.1 | 0.1 |

**Instrument :**
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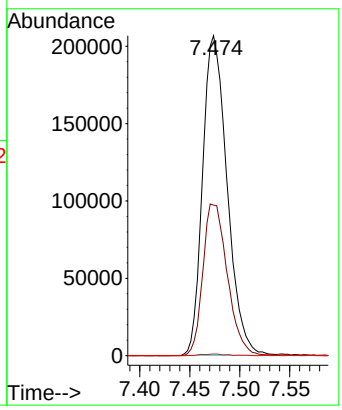
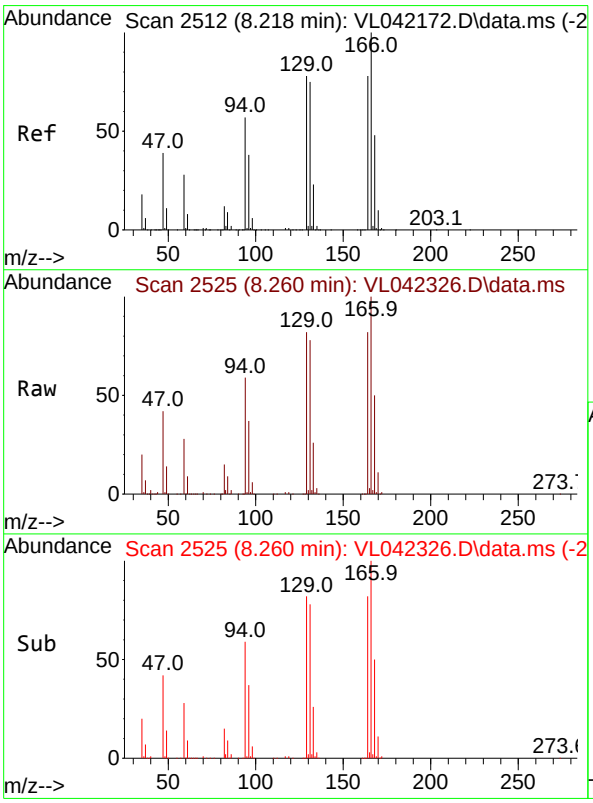
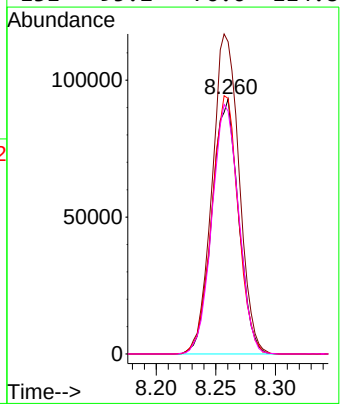


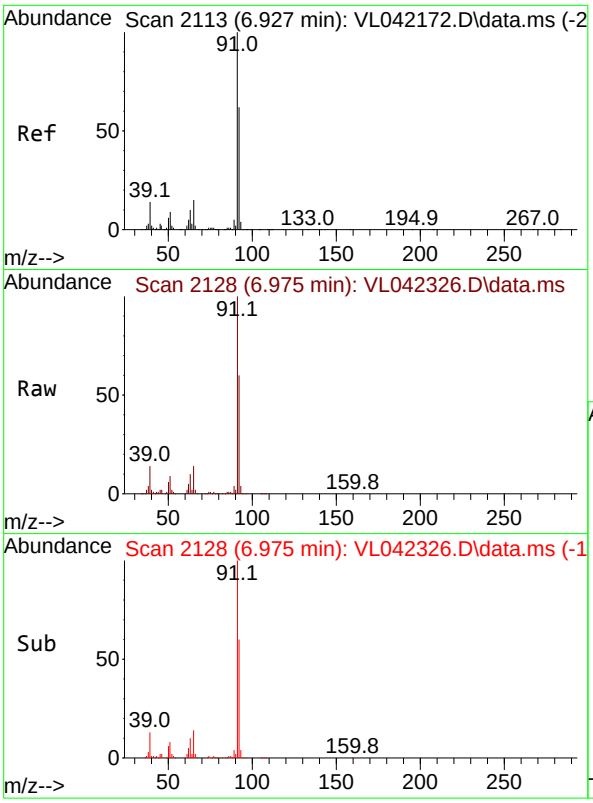




#52
Tetrachloroethene
Concen: 8.037 ppbv
RT: 8.260 min Scan# 2525
Delta R.T. 0.042 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion:164 Resp: 144481

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 122.4 | 102.5 | 153.7 |
| 129 | 100.2 | 79.8 | 119.8 |
| 131 | 95.2 | 76.6 | 114.8 |

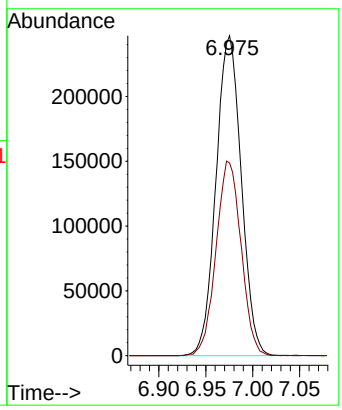





#53
Toluene
Concen: 8.595 ppbv
RT: 6.975 min Scan# 21
Delta R.T. 0.048 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 91 Resp: 46185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 60.2 | 48.4 | 72.6 |




**Instrument :**
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VSTDCCC010

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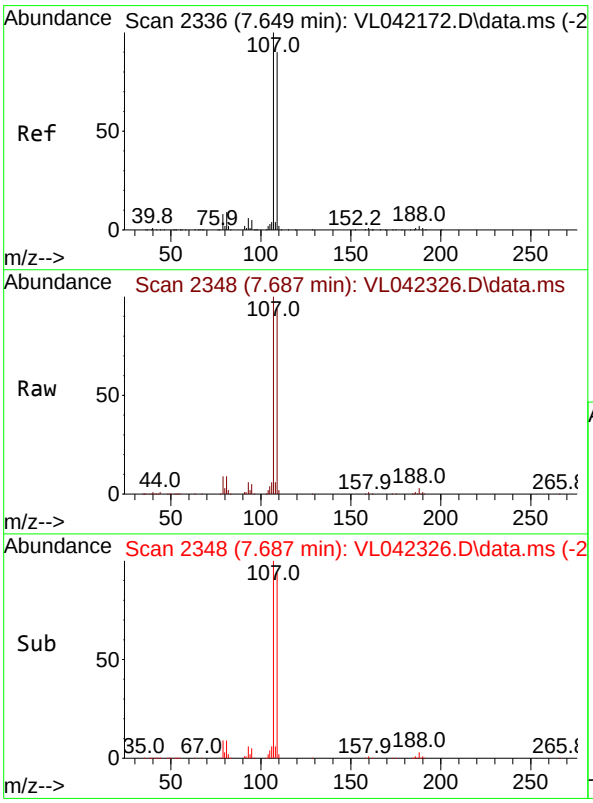
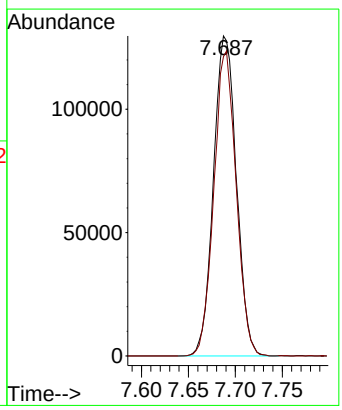
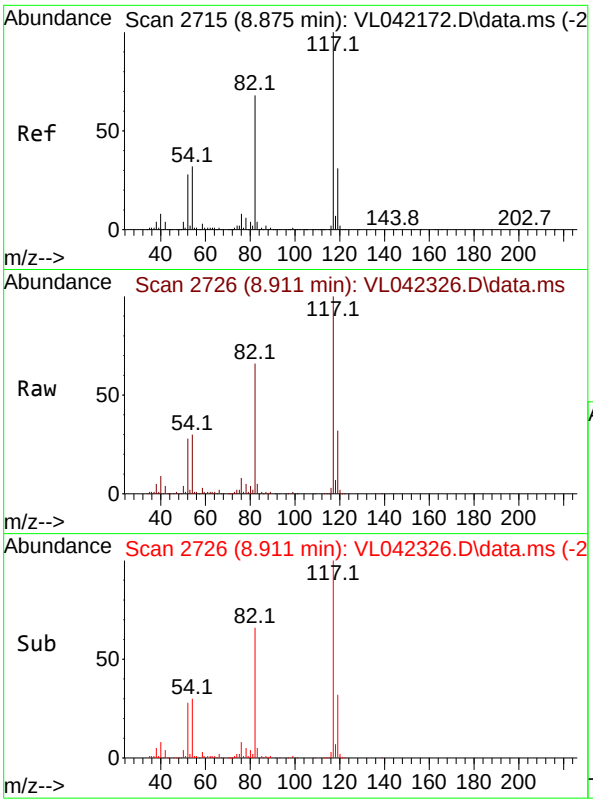



#54
1,2-Dibromoethane
Concen: 9.047 ppbv
RT: 7.687 min Scan# 2348
Delta R.T. 0.039 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion:107 Resp: 220075

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 93.6 | 72.2 | 108.4 |

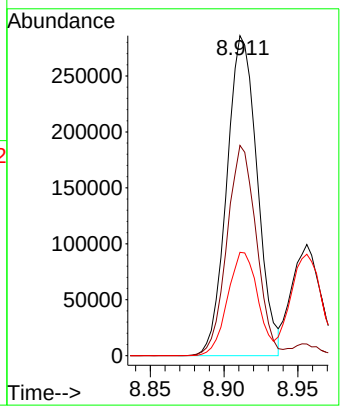





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.911 min Scan# 2
Delta R.T. 0.035 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion:117 Resp: 41149

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 67.0 | 55.8 | 83.6 |
| 119 | 33.0 | 25.5 | 38.3 |




**Instrument :**
MSVOA_L
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VSTDCCC010

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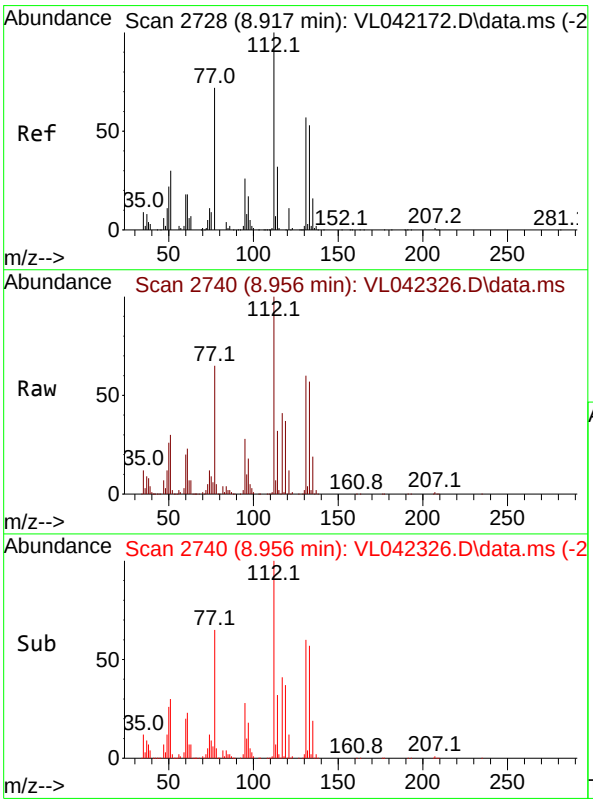
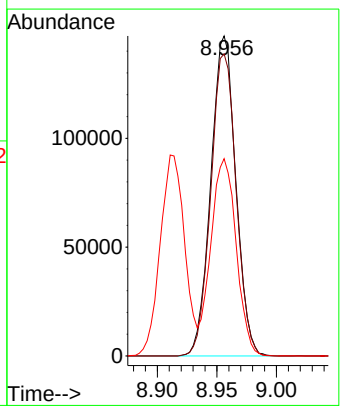
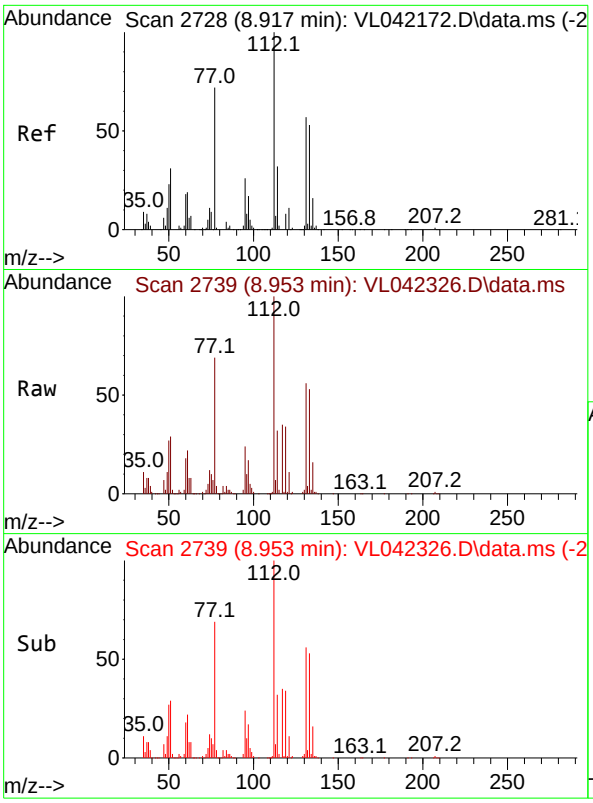



#56
1,1,1,2-Tetrachloroethane
Concen: 9.455 ppbv
RT: 8.956 min Scan# 2740
Delta R.T. 0.039 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion:131 Resp: 214175

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.9 | 76.6 | 114.8 |
| 119 | 61.1 | 49.8 | 74.6 |

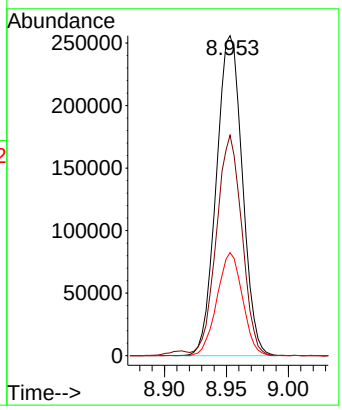





#57
Chlorobenzene
Concen: 9.617 ppbv
RT: 8.953 min Scan# 2
Delta R.T. 0.035 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion:112 Resp: 37535

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 68.8 | 58.2 | 87.2 |
| 114 | 32.2 | 29.1 | 35.5 |




**Instrument :**
MSVOA_L
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VSTDCCC010

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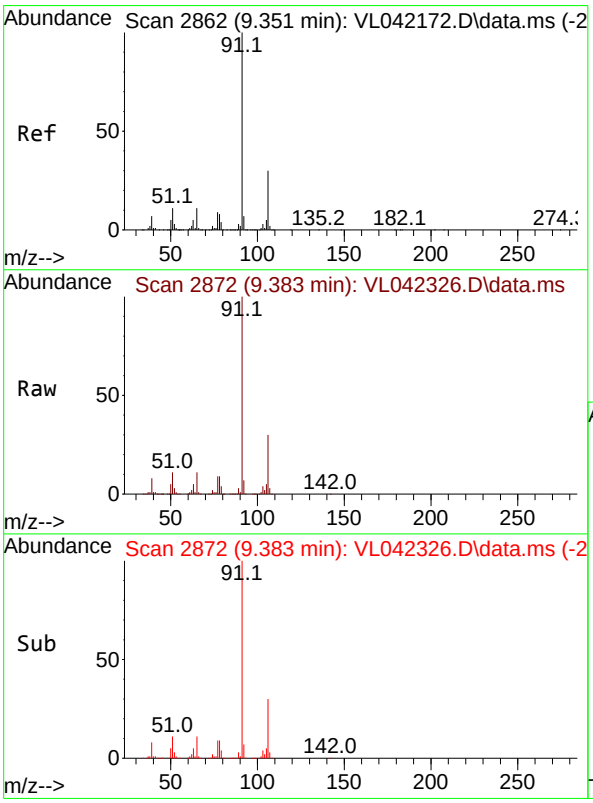
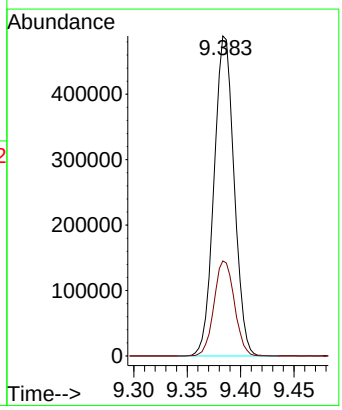
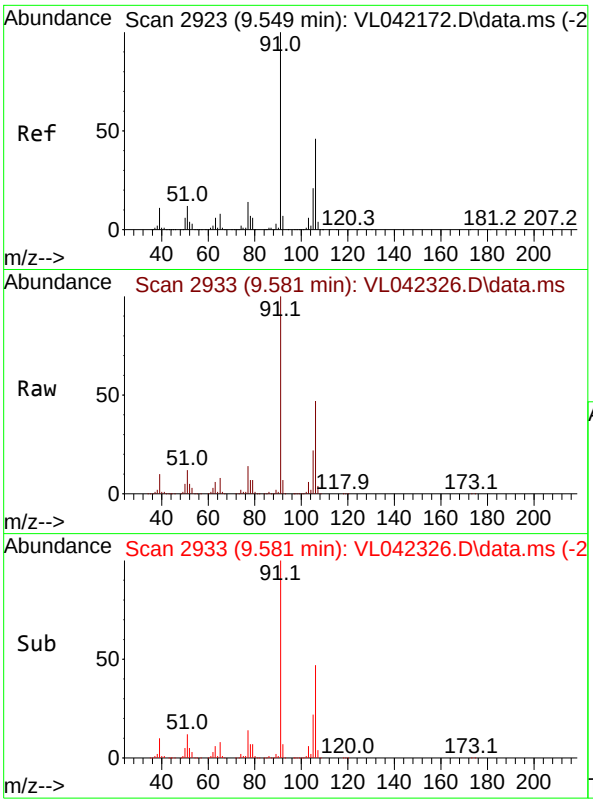



#58
Ethyl Benzene
Concen: 8.754 ppbv
RT: 9.383 min Scan# 2872
Delta R.T. 0.032 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 91 Resp: 639857

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.7 | 24.2 | 36.2 |






#59
m/p-Xylene
Concen: 18.222 ppbv m
RT: 9.581 min Scan# 2
Delta R.T. 0.032 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

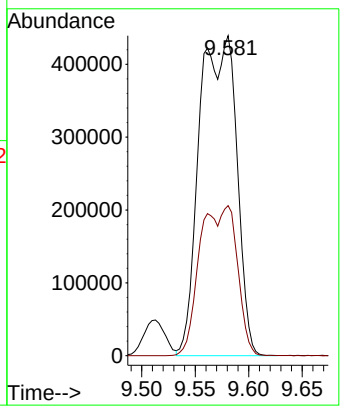
Tgt Ion: 91 Resp: 106350

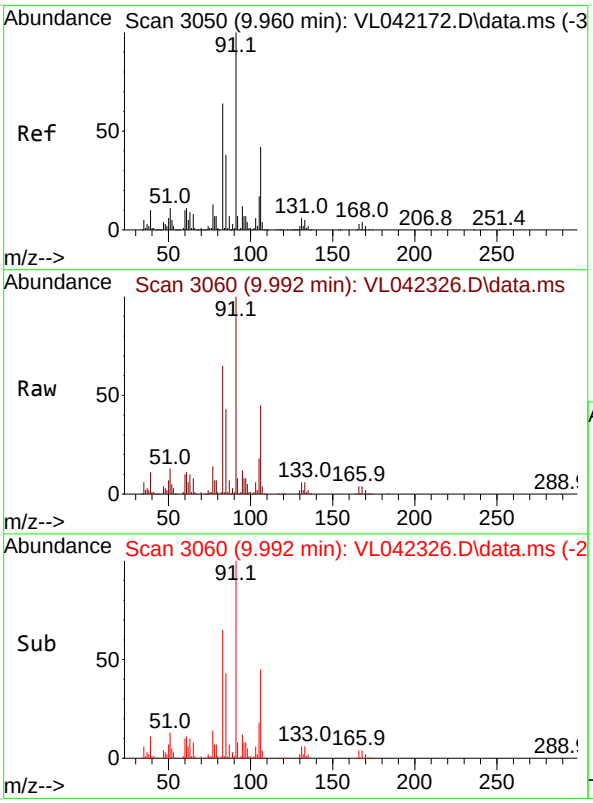
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 47.1 | 36.4 | 54.6 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

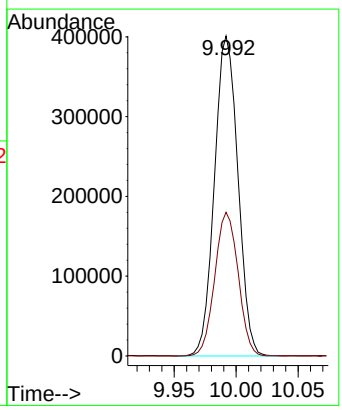


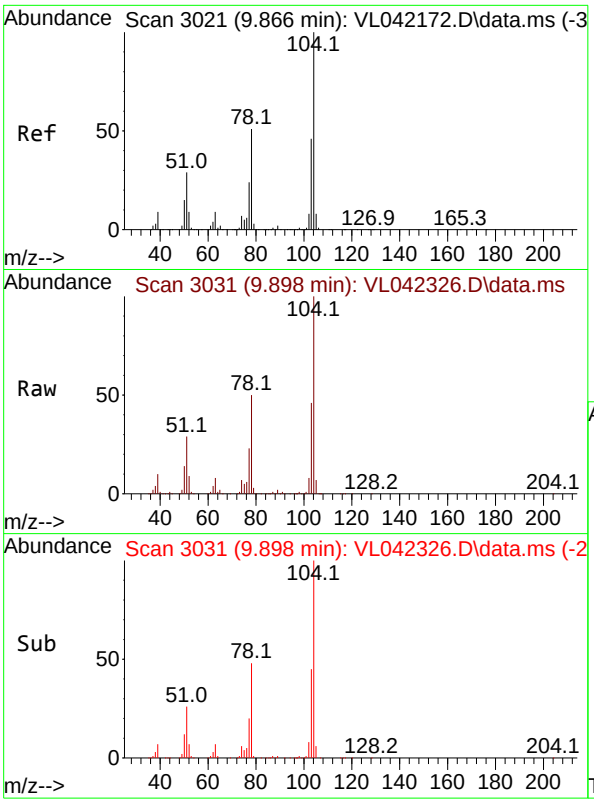




#60
o-Xylene
Concen: 9.040 ppbv
RT: 9.992 min Scan# 3060
Delta R.T. 0.032 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 91 Resp: 528896

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 44.8 | 20.8 | 62.5 |

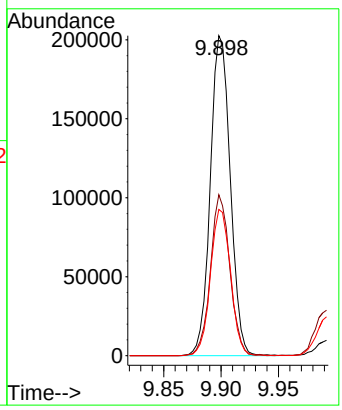





#61
Styrene
Concen: 8.474 ppbv
RT: 9.898 min Scan# 3
Delta R.T. 0.032 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion:104 Resp: 24530

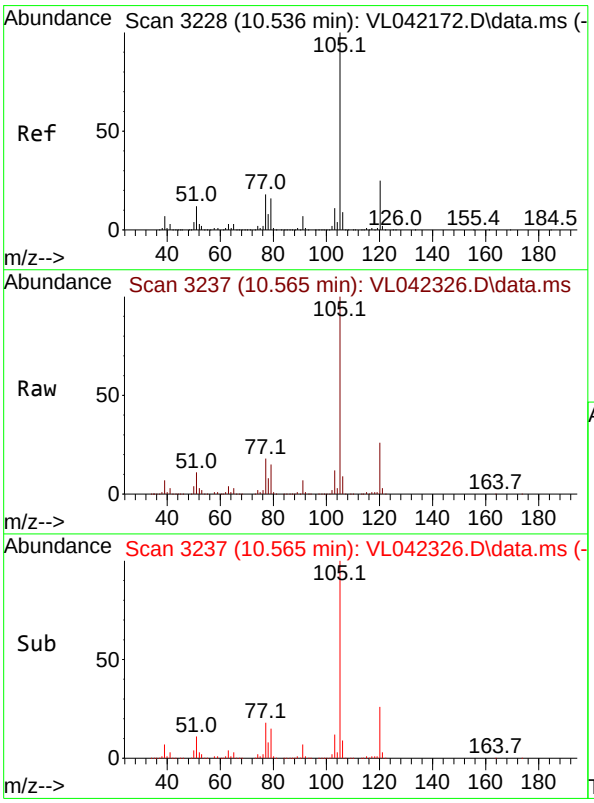
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 49.0 | 41.8 | 62.6 |
| 103 | 46.0 | 37.0 | 55.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
**APPROVED**

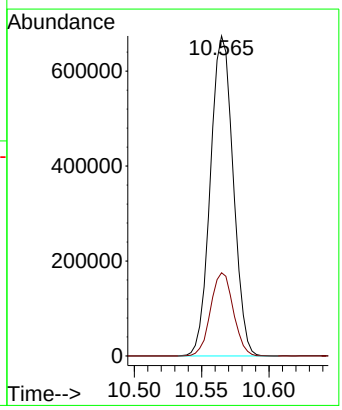
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

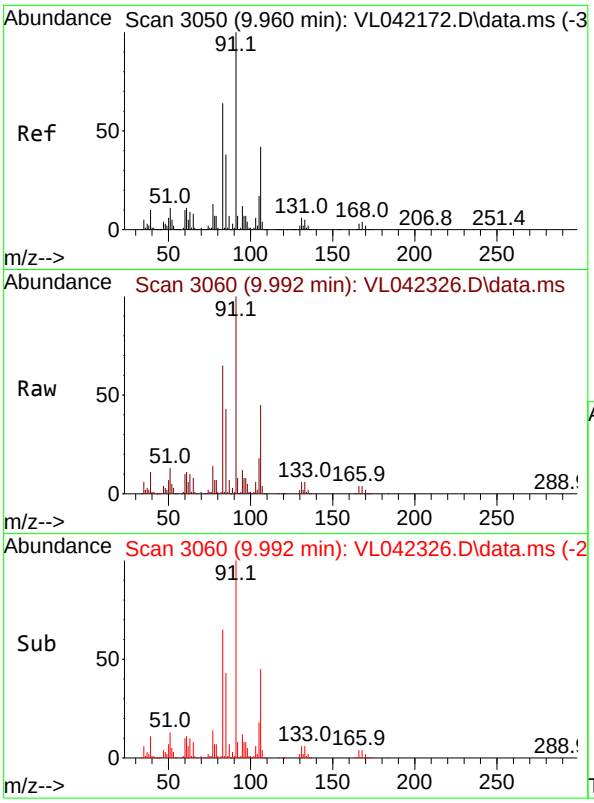



#62
Isopropylbenzene
Concen: 9.079 ppbv
RT: 10.565 min Scan# 3237
Delta R.T. 0.029 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion:105 Resp: 794408

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.9 | 19.9 | 29.9 |






#63
1,1,2,2-Tetrachloroethane
Concen: 9.671 ppbv
RT: 9.992 min Scan# 3
Delta R.T. 0.032 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 83 Resp: 34378

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.4 | 4.8 | 14.4 |
| 85 | 64.8 | 32.5 | 97.5 |

**Instrument :**
MSVOA_L
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VSTDCCC010

**Manual Integrations**
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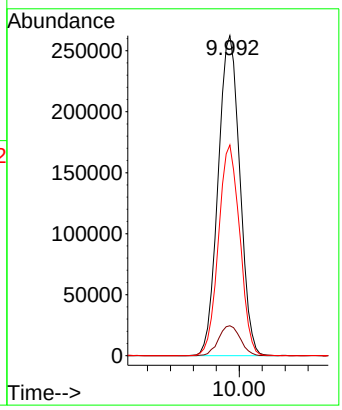
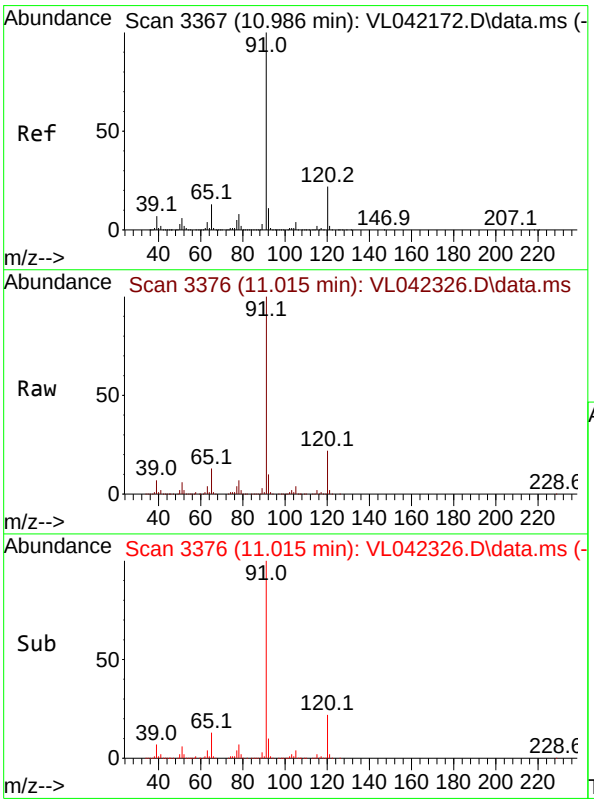
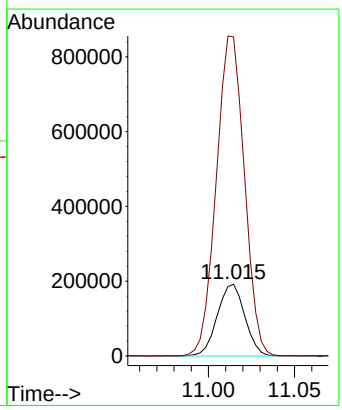


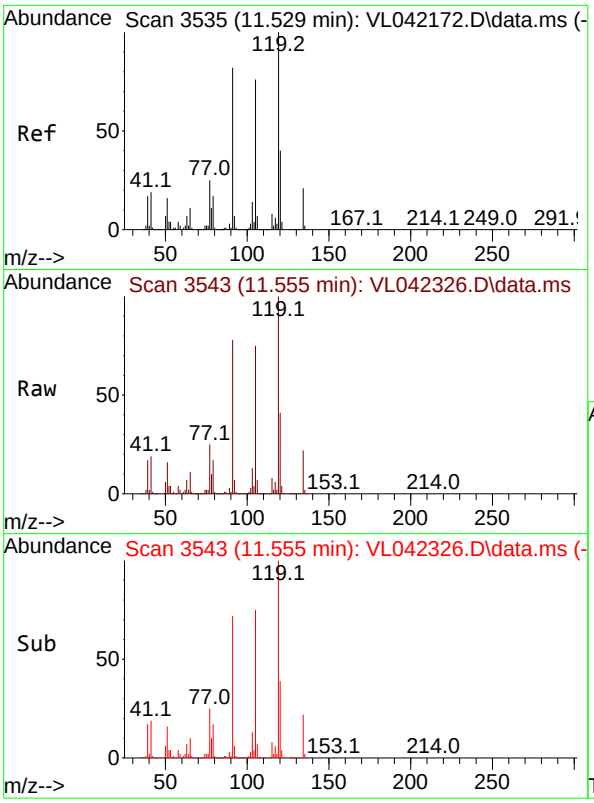




#64
n-propylbenzene
Concen: 9.452 ppbv
RT: 11.015 min Scan# 3376
Delta R.T. 0.029 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion:120 Resp: 212879

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 456.6 | 376.9 | 565.3 |






#65
tert-Butylbenzene
Concen: 8.911 ppbv
RT: 11.555 min Scan# 3
Delta R.T. 0.026 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion:119 Resp: 72107

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 79.7 | 66.0 | 99.0 |
| 134 | 21.1 | 16.7 | 25.1 |

**Instrument :**
MSVOA_L
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VSTDCCC010

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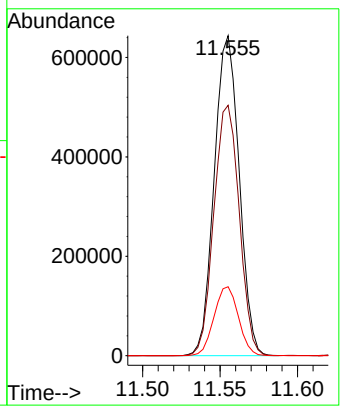
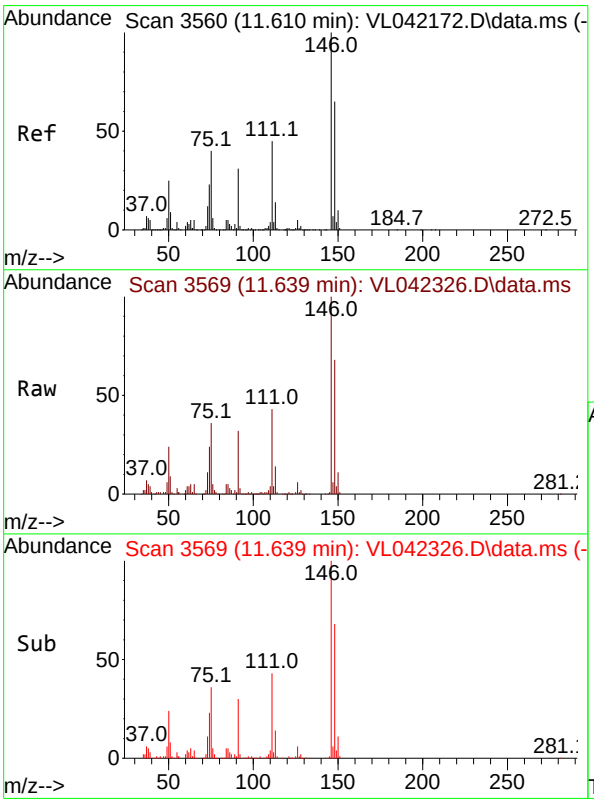
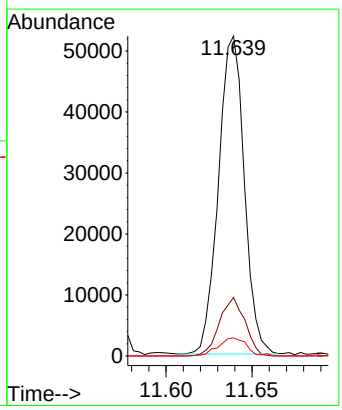


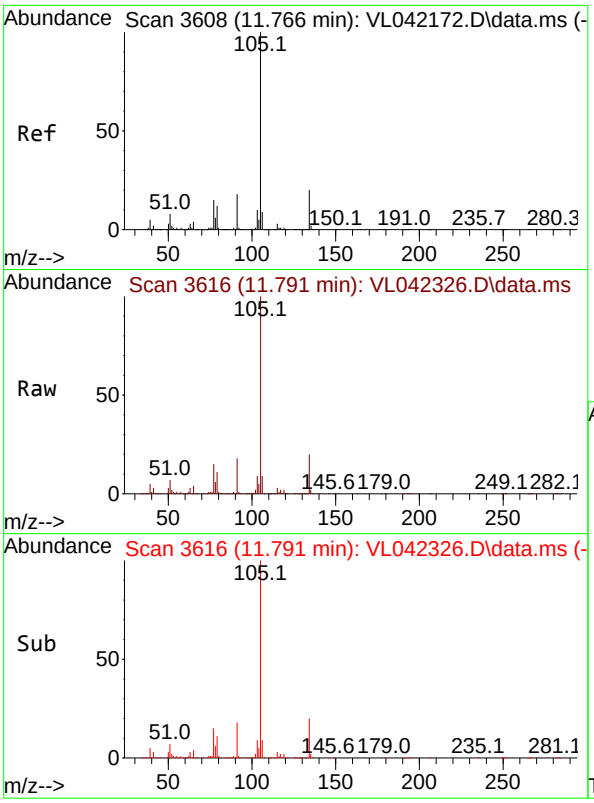




#66
Benzyl Chloride
Concen: 6.339 ppbv
RT: 11.639 min Scan# 3569
Delta R.T. 0.029 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 91 Resp: 54427

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 18.2 | 13.8 | 20.6 |
| 128 | 6.3 | 4.5 | 6.7 |






#67
sec-Butylbenzene
Concen: 9.123 ppbv
RT: 11.791 min Scan# 3
Delta R.T. 0.026 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion:105 Resp: 102607

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.0 | 15.5 | 23.3 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
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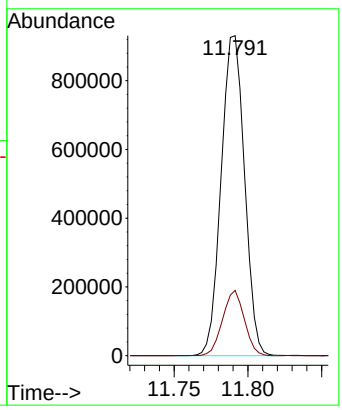
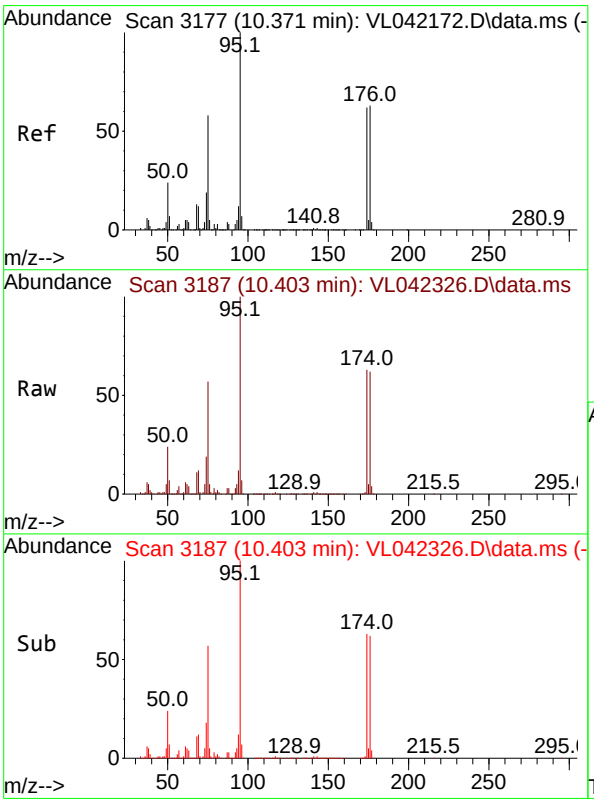
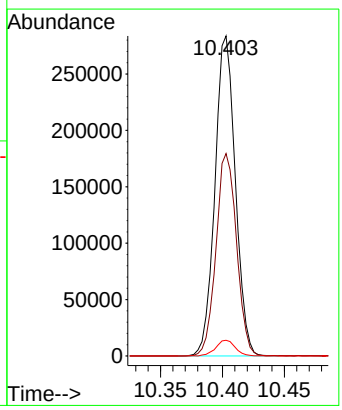


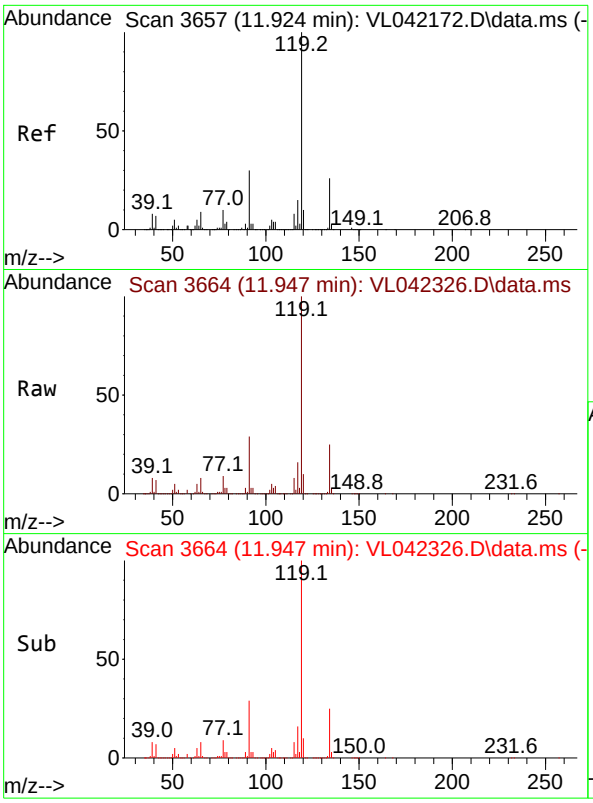




#68
1-Bromo-4-Fluorobenzene
Concen: 9.646 ppbv
RT: 10.403 min Scan# 3187
Delta R.T. 0.032 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 95 Resp: 325960

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 63.6 | 50.6 | 76.0 |
| 175 | 4.7 | 3.8 | 5.6 |

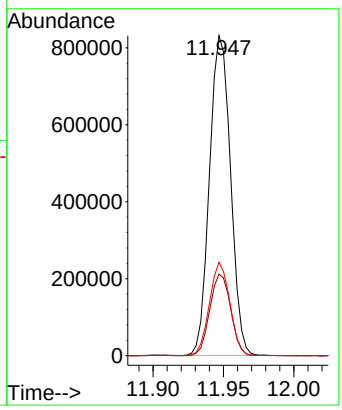





#69
p-Isopropyltoluene
Concen: 8.935 ppbv
RT: 11.947 min Scan# 3
Delta R.T. 0.023 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion:119 Resp: 86538

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.4 | 20.4 | 30.6 |
| 91 | 28.4 | 23.7 | 35.5 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

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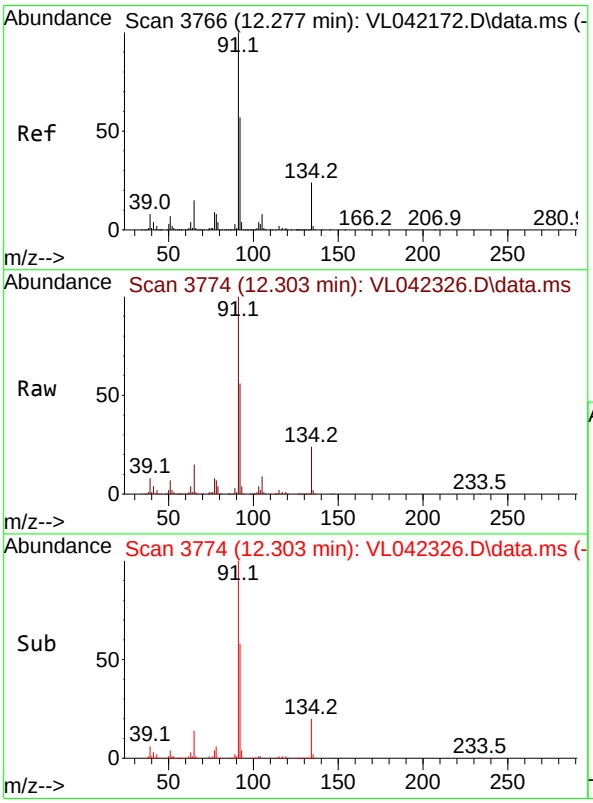
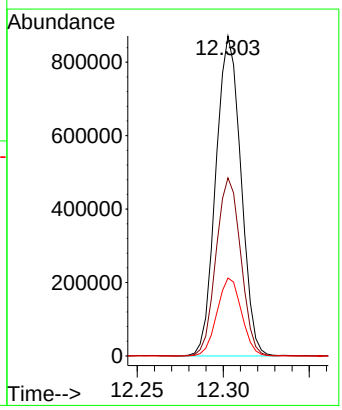
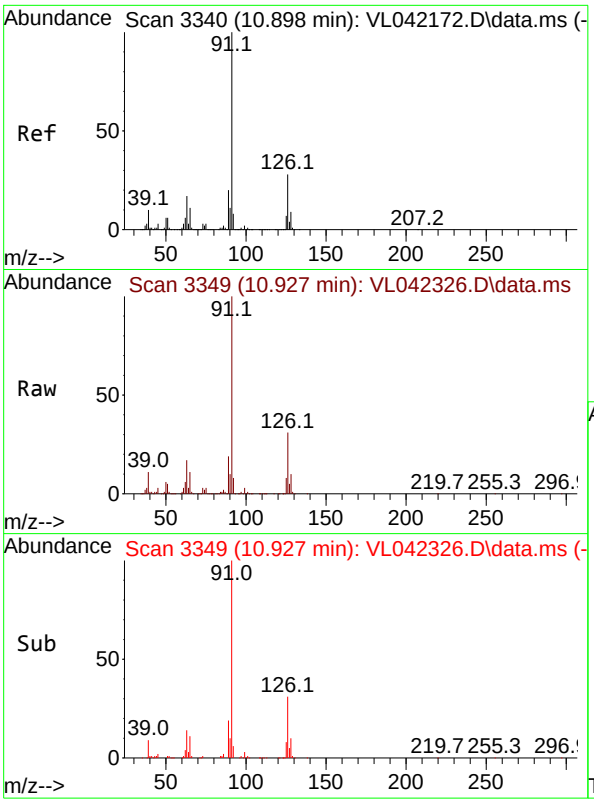



#70
n-Butylbenzene
Concen: 8.928 ppbv
RT: 12.303 min Scan# 3774
Delta R.T. 0.026 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 91 Resp: 884265

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 55.0 | 44.9 | 67.3 |
| 134 | 23.8 | 19.2 | 28.8 |

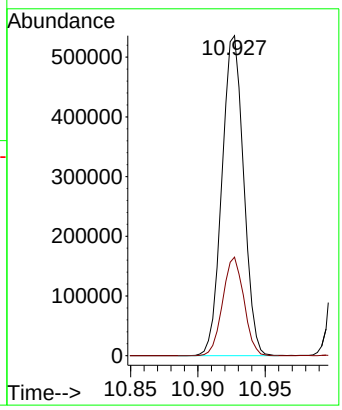





#71
2-Chlorotoluene
Concen: 8.830 ppbv
RT: 10.927 min Scan# 3
Delta R.T. 0.029 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 91 Resp: 59959

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 30.1 | 11.6 | 46.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
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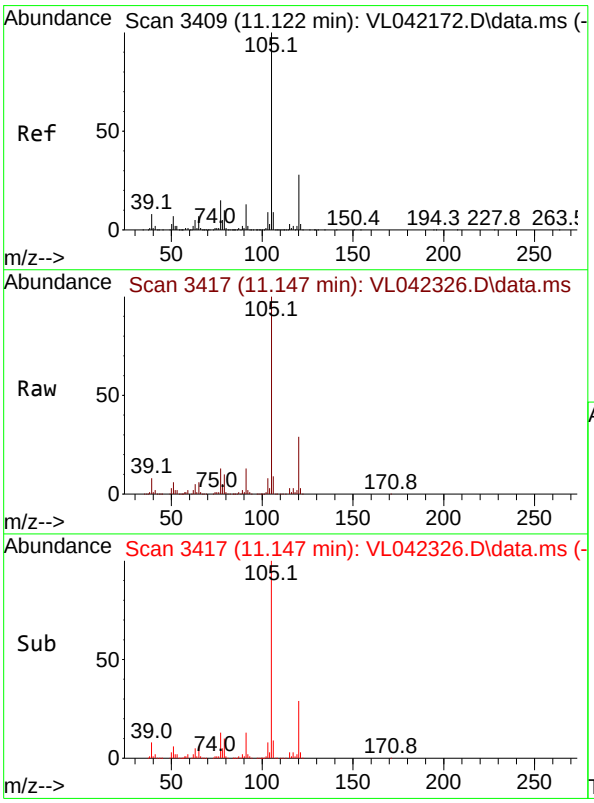
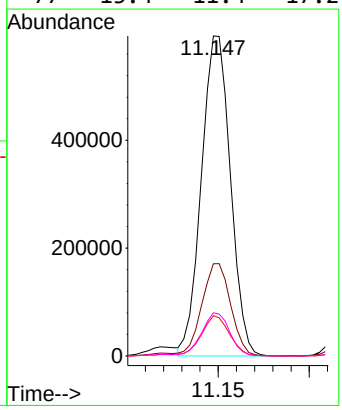
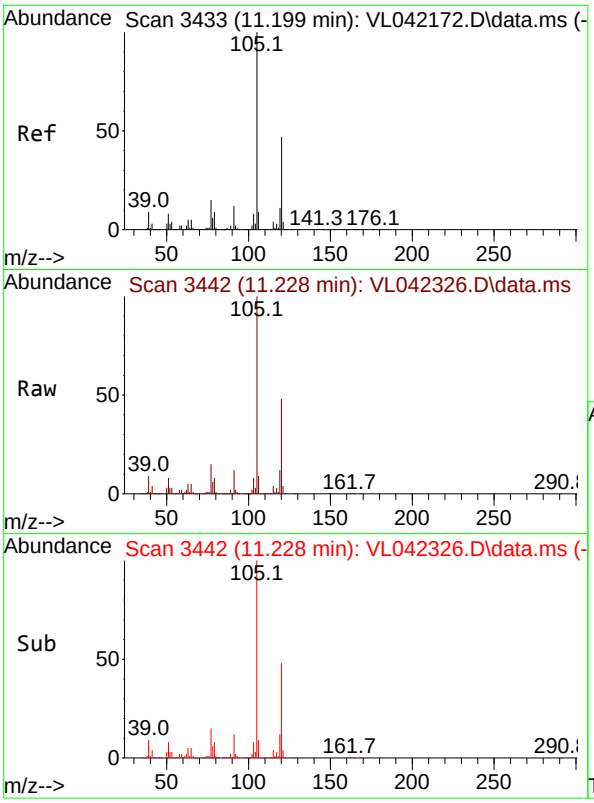



#72
4-Ethyltoluene
Concen: 9.029 ppbv
RT: 11.147 min Scan# 3417
Delta R.T. 0.026 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion:105 Resp: 657765

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 29.5 | 23.4 | 35.0 |
| 91 | 12.6 | 10.3 | 15.5 |
| 77 | 13.4 | 11.4 | 17.2 |

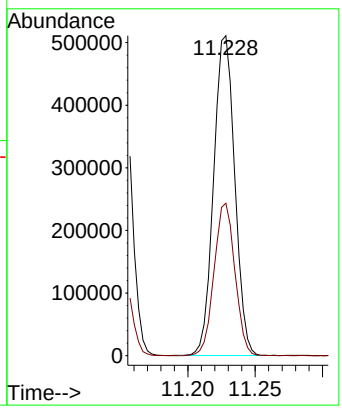





#73
1,3,5-Trimethylbenzene
Concen: 8.764 ppbv
RT: 11.228 min Scan# 34
Delta R.T. 0.029 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion:105 Resp: 55759

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.7 | 37.4 | 56.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
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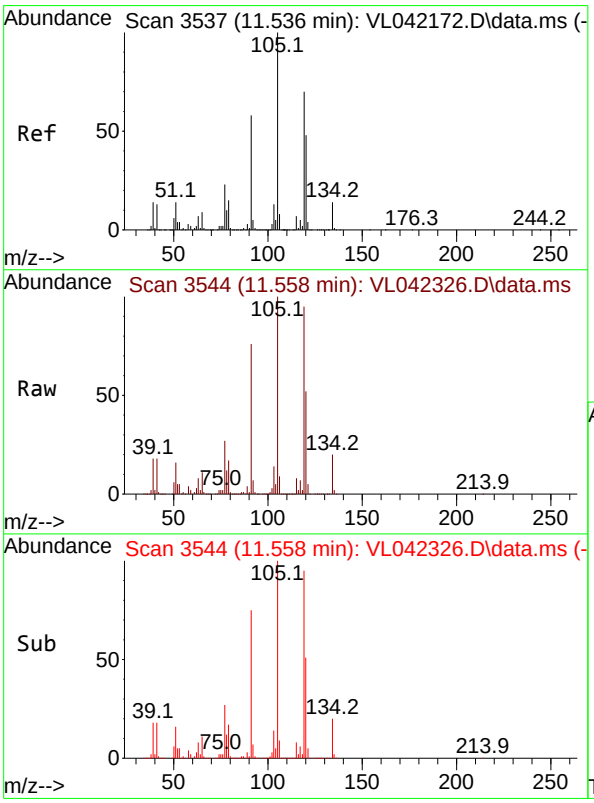
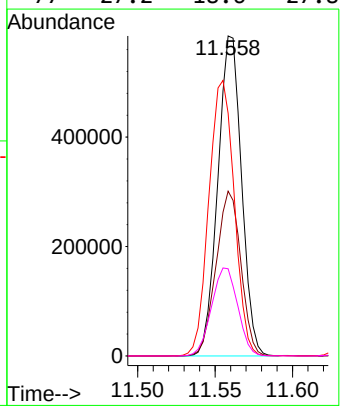
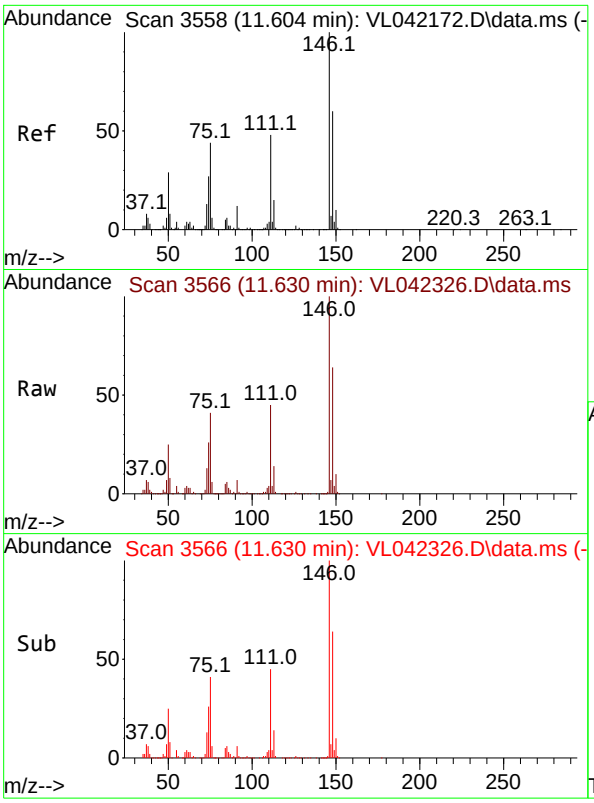



#74
1,2,4-Trimethylbenzene
Concen: 8.507 ppbv
RT: 11.558 min Scan# 3544
Delta R.T. 0.023 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion:105 Resp: 623563

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 51.5 | 38.6 | 58.0 |
| 91 | 75.8 | 46.2 | 69.2# |
| 77 | 27.2 | 18.6 | 27.8 |

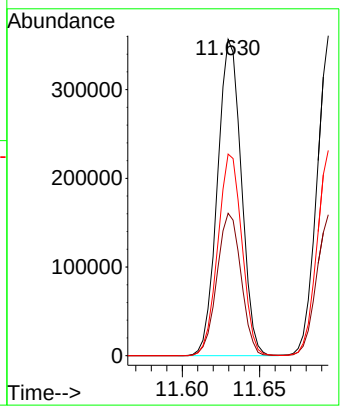





#75
1,3-Dichlorobenzene
Concen: 9.492 ppbv
RT: 11.630 min Scan# 3
Delta R.T. 0.026 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion:146 Resp: 38157

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 45.6 | 23.8 | 71.2 |
| 148 | 64.4 | 31.9 | 95.9 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

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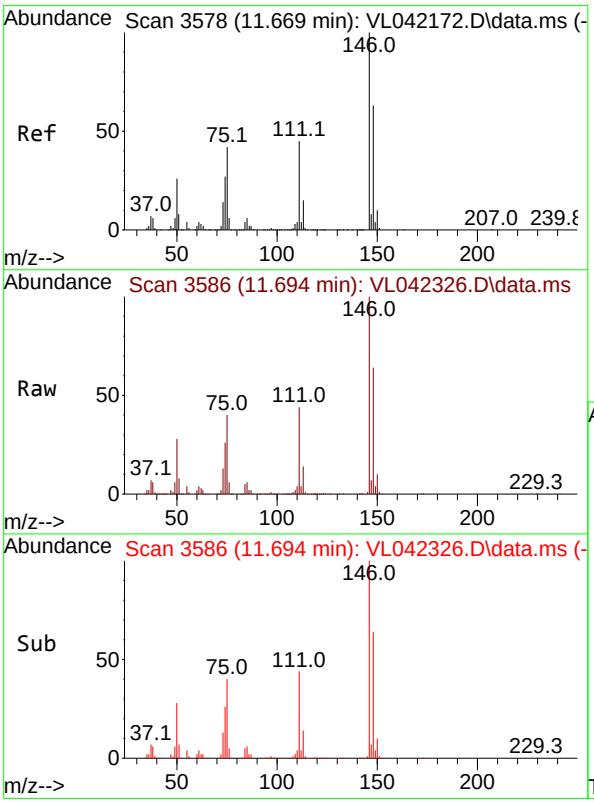
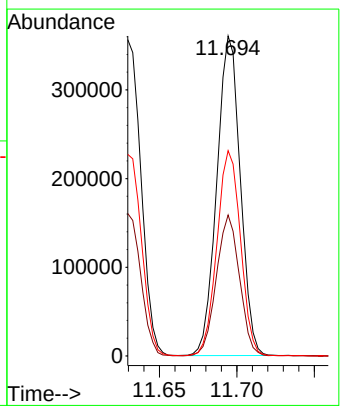
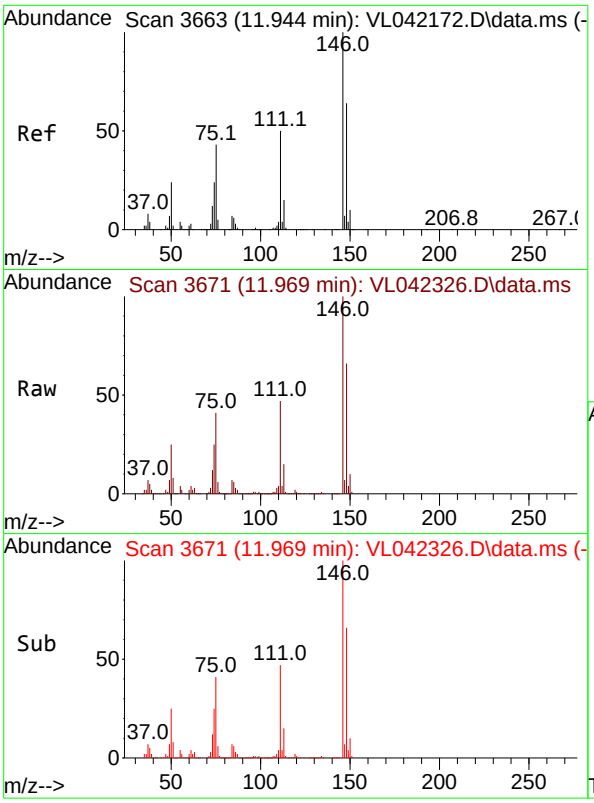



#76
1,4-Dichlorobenzene
Concen: 9.499 ppbv
RT: 11.694 min Scan# 3586
Delta R.T. 0.026 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion:146 Resp: 380035

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.7 | 23.0 | 69.0 |
| 148 | 64.7 | 31.9 | 95.7 |

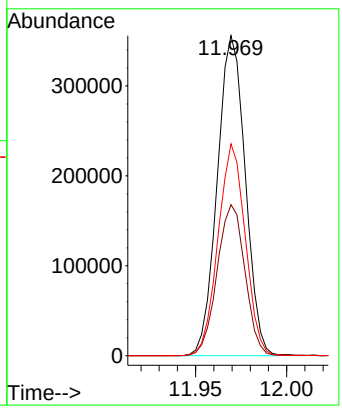





#77
1,2-Dichlorobenzene
Concen: 9.706 ppbv
RT: 11.969 min Scan# 3(
Delta R.T. 0.026 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion:146 Resp: 37989(

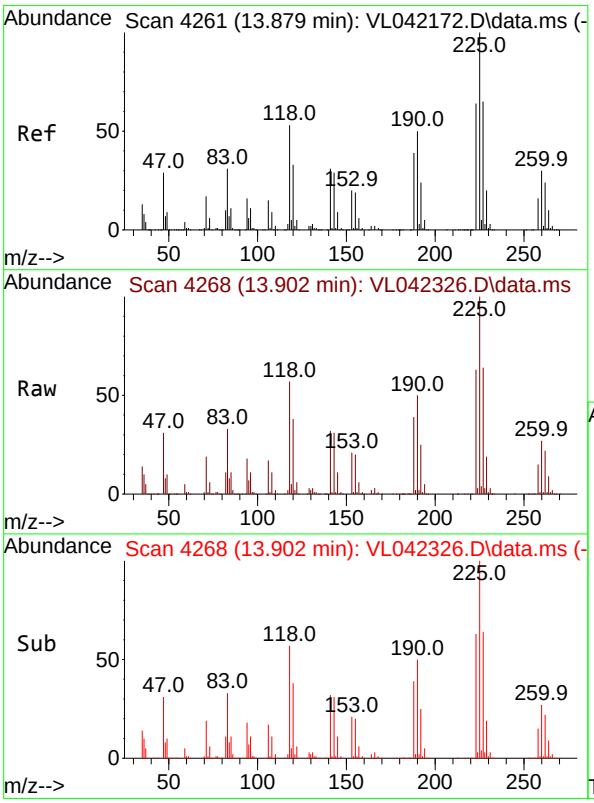
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 47.0 | 24.8 | 74.3 |
| 148 | 64.5 | 31.6 | 94.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
**APPROVED**

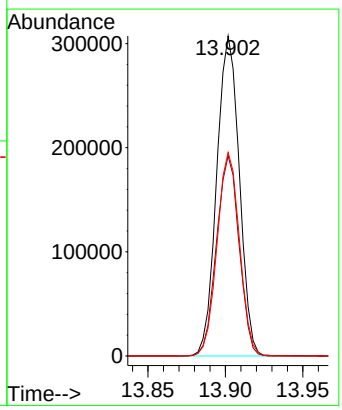
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

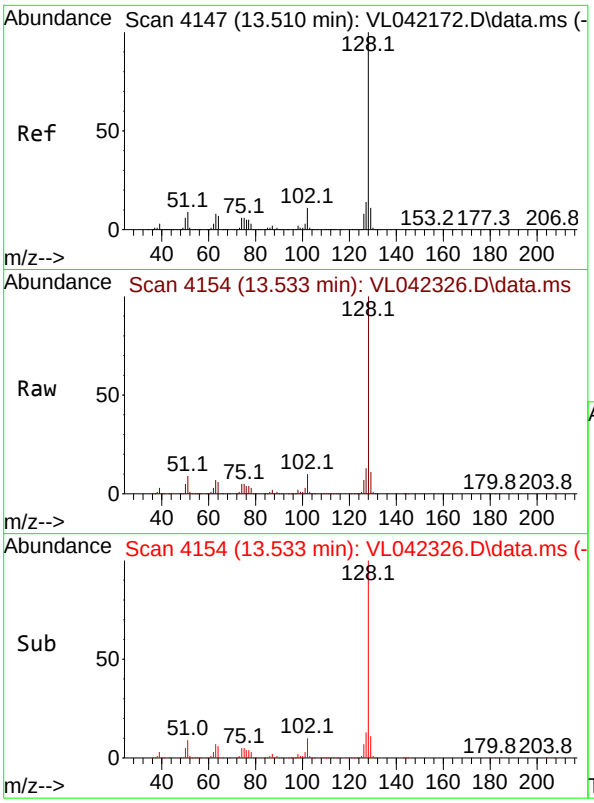



#78
Hexachloro-1,3-Butadiene
Concen: 7.828 ppbv
RT: 13.902 min Scan# 4268
Delta R.T. 0.023 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion:225 Resp: 311900

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.4 | 50.6 | 76.0 |
| 227 | 63.0 | 51.2 | 76.8 |

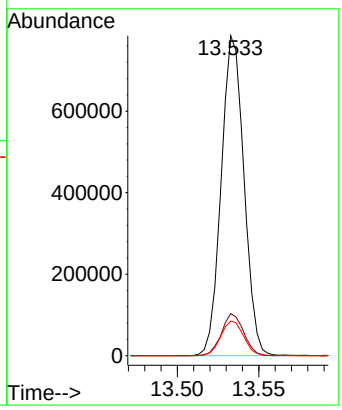





#79
Naphthalene
Concen: 9.490 ppbv
RT: 13.533 min Scan# 4
Delta R.T. 0.023 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion:128 Resp: 76087

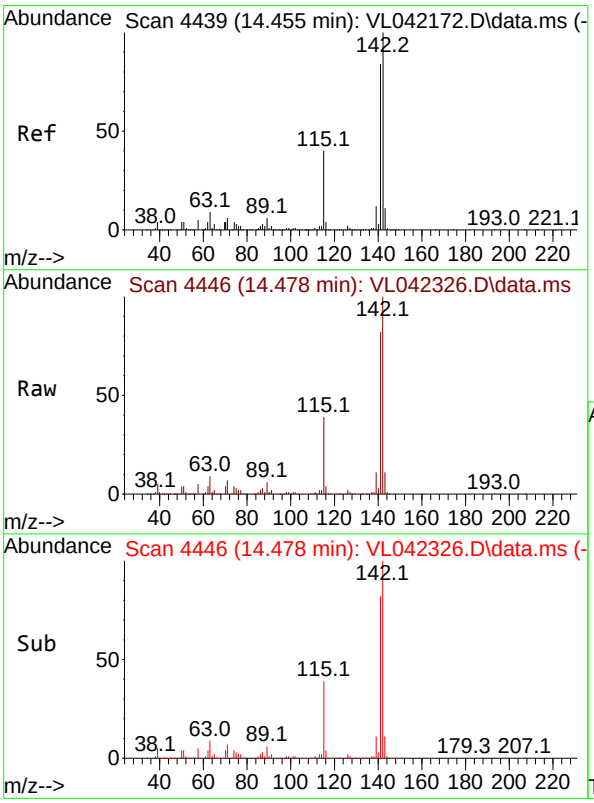
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.2 | 10.8 | 16.2 |
| 129 | 10.8 | 9.0 | 13.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
**APPROVED**

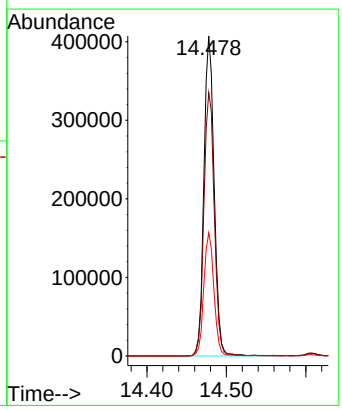
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

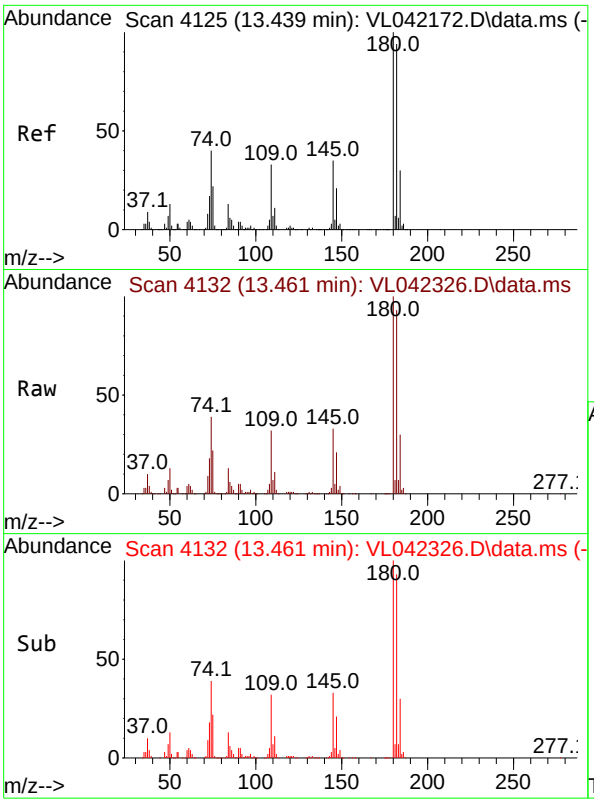



#80
Naphthalene,2-methyl-
Concen: 9.294 ppbv
RT: 14.478 min Scan# 4446
Delta R.T. 0.023 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion:142 Resp: 365398

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 84.6 | 66.3 | 99.5 |
| 115 | 38.5 | 31.6 | 47.4 |

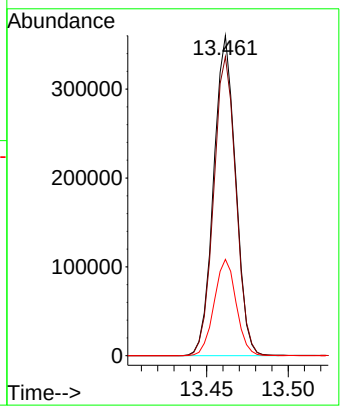





#81
1,2,4-Trichlorobenzene
Concen: 9.114 ppbv
RT: 13.461 min Scan# 4
Delta R.T. 0.023 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion:180 Resp: 33703

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.1 | 75.1 | 112.7 |
| 184 | 30.2 | 24.4 | 36.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
Data File : VL042326.D
Acq On : 15 Apr 2025 11:30
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**LabSampleId :**
VSTDCCC010

Quant Time: Apr 16 01:29:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Bromochloromethane | 1.000 | 1.000 | 0.0 | 92 | 0.02 |
| 2 | T | Dichlorodifluoromethane | 1.476 | 1.245 | 15.7 | 82 | 0.00 |
| 3 | | Chlorodifluoromethane | 1.508 | 1.366 | 9.4 | 86 | 0.00 |
| 4 | | Chloromethane | 0.603 | 0.520 | 13.8 | 84 | 0.00 |
| 5 | T | Vinyl Chloride | 0.639 | 0.483 | 24.4 | 81 | 0.01 |
| 6 | T | Bromomethane | 0.273 | 0.211 | 22.7 | 76 | 0.01 |
| 7 | | Chloroethane | 0.242 | 0.187 | 22.7 | 76 | 0.01 |
| 8 | T | Dichlorotetrafluoroethane | 1.257 | 1.062 | 15.5 | 81 | 0.01 |
| 9 | T | Propene | 0.691 | 0.587 | 15.1 | 82 | 0.00 |
| 10 | T | Heptane | 1.839 | 1.607 | 12.6 | 83 | 0.05 |
| 11 | T | Trichlorofluoromethane | 1.437 | 1.175 | 18.2 | 81 | 0.01 |
| 12 | T | 1,1,2-Trichlorotrifluoroeth | 1.181 | 0.912 | 22.8 | 75 | 0.02 |
| 13 | | Ethanol | 0.065 | 0.026# | 60.0# | 83 | 0.01 |
| 14 | T | Bromoethene | 0.452 | 0.346 | 23.5 | 76 | 0.02 |
| 15 | T | Acetone | 1.399 | 1.065 | 23.9 | 88 | 0.01 |
| 16 | T | 1,3-Butadiene | 0.683 | 0.528 | 22.7 | 85 | 0.01 |
| 17 | | tert-Butyl alcohol | 1.742 | 1.218 | 30.1# | 69 | 0.02 |
| 18 | T | 1,1-Dichloroethene | 0.552 | 0.420 | 23.9 | 77 | 0.02 |
| 19 | T | Isopropyl Alcohol | 0.789 | 0.606 | 23.2 | 79 | 0.01 |
| 20 | T | Methylene Chloride | 0.521 | 0.350 | 32.8# | 74 | 0.02 |
| 21 | T | Allyl Chloride | 0.986 | 0.772 | 21.7 | 79 | 0.02 |
| 22 | T | trans-1,2-Dichloroethene | 0.638 | 0.474 | 25.7 | 74 | 0.02 |
| 23 | T | Vinyl Acetate | 0.605 | 0.419 | 30.7# | 78 | 0.02 |
| 24 | T | 1,1-Dichloroethane | 1.183 | 0.983 | 16.9 | 81 | 0.02 |
| 25 | T | Ethyl Acetate | 3.630 | 3.278 | 9.7 | 87 | 0.02 |
| 26 | T | Hexane | 1.402 | 1.241 | 11.5 | 86 | 0.02 |
| 27 | T | Carbon Disulfide | 1.503 | 1.135 | 24.5 | 73 | 0.02 |
| 28 | T | Methyl tert-Butyl Ether | 0.873 | 0.675 | 22.7 | 75 | 0.02 |
| 29 | T | Chloroform | 2.052 | 1.824 | 11.1 | 87 | 0.02 |
| 30 | T | Cyclohexane | 1.217 | 1.006 | 17.3 | 80 | 0.03 |
| 31 | T | cis-1,2-Dichloroethene | 1.423 | 1.208 | 15.1 | 81 | 0.02 |
| 32 | T | 1,1,1-Trichloroethane | 2.349 | 1.810 | 22.9 | 81 | 0.03 |
| 33 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 84 | 0.04 |
| 34 | T | 2-Butanone | 0.725 | 0.694 | 4.3 | 87 | 0.02 |
| 35 | T | Carbon Tetrachloride | 0.781 | 0.695 | 11.0 | 83 | 0.03 |
| 36 | T | Benzene | 0.991 | 0.928 | 6.4 | 83 | 0.03 |
| 37 | T | 1,2-Dichloroethane | 0.568 | 0.524 | 7.7 | 82 | 0.03 |
| 38 | T | Trichloroethene | 0.414 | 0.377 | 8.9 | 84 | 0.04 |
| 39 | T | 1,2-Dichloropropane | 0.361 | 0.332 | 8.0 | 83 | 0.04 |
| 40 | T | 1,4-Dioxane | 0.192 | 0.158 | 17.7 | 78 | 0.05 |
| 41 | T | Tetrahydrofuran | 0.418 | 0.397 | 5.0 | 84 | 0.03 |
| 42 | T | Bromodichloromethane | 0.782 | 0.729 | 6.8 | 80 | 0.04 |
| 43 | | Methyl Methacrylate | 0.420 | 0.340 | 19.0 | 71 | 0.05 |
| 44 | T | 2,2,4-Trimethylpentane | 1.675 | 1.593 | 4.9 | 83 | 0.04 |
| 45 | T | t-1,3-Dichloropropene | 0.450 | 0.330 | 26.7 | 63 | 0.05 |
| 46 | T | cis-1,3-Dichloropropene | 0.552 | 0.447 | 19.0 | 68 | 0.05 |
| 47 | T | 1,1,2-Trichloroethane | 0.382 | 0.357 | 6.5 | 82 | 0.05 |
| 48 | T | Dibromochloromethane | 0.647 | 0.596 | 7.9 | 79 | 0.05 |

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
Data File : VL042326.D
Acq On : 15 Apr 2025 11:30
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**LabSampleId :**
VSTDCCC010

Quant Time: Apr 16 01:29:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | Bromoform | 0.581 | 0.522 | 10.2 | 75 | 0.04 |
| 50 | T | 4-Methyl-2-Pentanone | 1.149 | 0.969 | 15.7 | 79 | 0.05 |
| 51 | T | 2-Hexanone | 0.944 | 0.773 | 18.1 | 77 | 0.04 |
| 52 | T | Tetrachloroethene | 0.393 | 0.316 | 19.6 | 77 | 0.04 |
| 53 | T | Toluene | 1.175 | 1.010 | 14.0 | 75 | 0.05 |
| 54 | T | 1,2-Dibromoethane | 0.532 | 0.481 | 9.6 | 80 | 0.04 |
| 55 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 79 | 0.04 |
| 56 | | 1,1,1,2-Tetrachloroethane | 0.550 | 0.520 | 5.5 | 81 | 0.04 |
| 57 | T | Chlorobenzene | 0.949 | 0.912 | 3.9 | 83 | 0.04 |
| 58 | T | Ethyl Benzene | 1.776 | 1.555 | 12.4 | 74 | 0.03 |
| 59 | T | m/p-Xylene | 1.418 | 1.292 | 8.9 | 77 | 0.03 |
| 60 | T | o-Xylene | 1.422 | 1.285 | 9.6 | 77 | 0.03 |
| 61 | T | Styrene | 0.703 | 0.596 | 15.2 | 69 | 0.03 |
| 62 | | Isopropylbenzene | 2.126 | 1.931 | 9.2 | 78 | 0.03 |
| 63 | T | 1,1,2,2-Tetrachloroethane | 0.864 | 0.835 | 3.4 | 83 | 0.03 |
| 64 | | n-propylbenzene | 0.547 | 0.517 | 5.5 | 82 | 0.03 |
| 65 | | tert-Butylbenzene | 1.966 | 1.752 | 10.9 | 80 | 0.03 |
| 66 | T | Benzyl Chloride | 0.209 | 0.132 | 36.8# | 52 | 0.03 |
| 67 | | sec-Butylbenzene | 2.733 | 2.494 | 8.7 | 82 | 0.03 |
| 68 | S | 1-Bromo-4-Fluorobenzene | 0.821 | 0.792 | 3.5 | 77 | 0.03 |
| 69 | | p-Isopropyltoluene | 2.354 | 2.103 | 10.7 | 80 | 0.02 |
| 70 | | n-Butylbenzene | 2.407 | 2.149 | 10.7 | 80 | 0.03 |
| 71 | | 2-Chlorotoluene | 1.650 | 1.457 | 11.7 | 75 | 0.03 |
| 72 | T | 4-Ethyltoluene | 1.770 | 1.598 | 9.7 | 78 | 0.03 |
| 73 | T | 1,3,5-Trimethylbenzene | 1.546 | 1.355 | 12.4 | 77 | 0.03 |
| 74 | T | 1,2,4-Trimethylbenzene | 1.781 | 1.515 | 14.9 | 79 | 0.02 |
| 75 | T | 1,3-Dichlorobenzene | 0.977 | 0.927 | 5.1 | 83 | 0.03 |
| 76 | T | 1,4-Dichlorobenzene | 0.972 | 0.924 | 4.9 | 82 | 0.03 |
| 77 | T | 1,2-Dichlorobenzene | 0.951 | 0.923 | 2.9 | 86 | 0.03 |
| 78 | T | Hexachloro-1,3-Butadiene | 0.968 | 0.758 | 21.7 | 75 | 0.02 |
| 79 | T | Naphthalene | 1.948 | 1.849 | 5.1 | 81 | 0.02 |
| 80 | T | Naphthalene,2-methyl- | 0.955 | 0.888 | 7.0 | 71 | 0.02 |
| 81 | T | 1,2,4-Trichlorobenzene | 0.899 | 0.819 | 8.9 | 75 | 0.02 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WOOD06

Lab Code: CHEM Case No.: Q1665 SAS No.: Q1665 SDG No.: Q1665

Instrument ID: MSVOA_L Calibration Date/Time: 04/28/2025 08:44

Lab File ID: VL042416.D Init. Calib. Date(s): 04/17/2025 04/17/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:44 12:54

GC Column: RTX-1 ID: 0.32 (mm)

| COMPOUND | RRF | RRF010 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 1.767 | 1.796 | | 1.64 | 30 |
| Ethanol | 0.122 | 0.038 | | -68.85 | 30 |
| Chloromethane | 0.699 | 0.698 | | -0.14 | 30 |
| Vinyl Chloride | 0.761 | 0.679 | | -10.77 | 30 |
| Bromomethane | 0.327 | 0.307 | | -6.12 | 30 |
| Chloroethane | 0.275 | 0.264 | | -4 | 30 |
| Tetrahydrofuran | 0.461 | 0.386 | | -16.27 | 30 |
| Trichlorofluoromethane | 1.680 | 1.728 | | 2.86 | 30 |
| 1,1,2-Trichlorotrifluoroethane | 1.374 | 1.337 | | -2.69 | 30 |
| Dichlorotetrafluoroethane | 1.517 | 1.551 | | 2.24 | 30 |
| Bromoethene | 0.518 | 0.518 | | 0 | 30 |
| tert-Butyl alcohol | 2.029 | 1.859 | | -8.38 | 30 |
| Heptane | 2.153 | 1.687 | | -21.64 | 30 |
| Isopropyl Alcohol | 0.909 | 0.828 | | -8.91 | 30 |
| 1,1-Dichloroethene | 0.642 | 0.605 | | -5.76 | 30 |
| Acetone | 1.637 | 1.412 | | -13.74 | 30 |
| Carbon Disulfide | 1.749 | 1.685 | | -3.66 | 30 |
| Methyl tert-Butyl Ether | 1.070 | 0.955 | | -10.75 | 30 |
| Methylene Chloride | 0.641 | 0.512 | | -20.13 | 30 |
| trans-1,2-Dichloroethene | 0.731 | 0.669 | | -8.48 | 30 |
| 1,1-Dichloroethane | 1.388 | 1.337 | | -3.67 | 30 |
| Cyclohexane | 1.320 | 1.168 | | -11.52 | 30 |
| 2-Butanone | 0.791 | 0.699 | | -11.63 | 30 |
| Carbon Tetrachloride | 0.905 | 0.885 | | -2.21 | 30 |
| cis-1,2-Dichloroethene | 1.553 | 1.488 | | -4.18 | 30 |
| Chloroform | 2.309 | 2.303 | | -0.26 | 30 |
| 1,1,1-Trichloroethane | 2.599 | 2.470 | | -4.96 | 30 |
| 2,2,4-Trimethylpentane | 1.863 | 1.630 | | -12.51 | 30 |
| Benzene | 1.079 | 0.982 | | -8.99 | 30 |
| 1,2-Dichloroethane | 0.647 | 0.684 | | 5.72 | 30 |
| Trichloroethene | 0.471 | 0.396 | | -15.92 | 30 |
| 1,2-Dichloropropane | 0.402 | 0.354 | | -11.94 | 30 |
| Bromodichloromethane | 0.901 | 0.901 | | 0 | 30 |
| 4-Methyl-2-Pentanone | 1.314 | 1.032 | | -21.46 | 30 |
| Toluene | 1.294 | 1.154 | | -10.82 | 30 |
| t-1,3-Dichloropropene | 0.497 | 0.456 | | -8.25 | 30 |
| cis-1,3-Dichloropropene | 0.608 | 0.554 | | -8.88 | 30 |
| 1,1,2-Trichloroethane | 0.410 | 0.388 | | -5.37 | 30 |

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WOOD06

Lab Code: CHEM Case No.: Q1665 SAS No.: Q1665 SDG No.: Q1665

Instrument ID: MSVOA_L Calibration Date/Time: 04/28/2025 08:44

Lab File ID: VL042416.D Init. Calib. Date(s): 04/17/2025 04/17/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:44 12:54

GC Column: RTX-1 ID: 0.32 (mm)

| COMPOUND | RRF | RRF010 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dibromochloromethane | 0.723 | 0.711 | | -1.66 | 30 |
| 1,2-Dibromoethane | 0.586 | 0.550 | | -6.14 | 30 |
| Tetrachloroethene | 0.417 | 0.331 | | -20.62 | 30 |
| Chlorobenzene | 1.040 | 0.985 | | -5.29 | 30 |
| Ethyl Benzene | 1.981 | 1.861 | | -6.06 | 30 |
| m/p-Xylene | 1.596 | 1.522 | | -4.64 | 30 |
| o-Xylene | 1.607 | 1.528 | | -4.92 | 30 |
| Styrene | 0.767 | 0.698 | | -9 | 30 |
| Bromoform | 0.633 | 0.577 | | -8.85 | 30 |
| 1,1,2,2-Tetrachloroethane | 1.042 | 0.900 | | -13.63 | 30 |
| 2-Chlorotoluene | 1.851 | 1.752 | | -5.35 | 30 |
| 1,3,5-Trimethylbenzene | 1.735 | 1.596 | | -8.01 | 30 |
| 1,2,4-Trimethylbenzene | 2.026 | 1.775 | | -12.39 | 30 |
| 1,3-Dichlorobenzene | 1.053 | 0.941 | | -10.64 | 30 |
| 1,4-Dichlorobenzene | 1.059 | 0.952 | | -10.1 | 30 |
| 1,2-Dichlorobenzene | 1.024 | 0.917 | | -10.45 | 30 |
| 1,2,4-Trichlorobenzene | 1.040 | 0.884 | | -15 | 30 |
| Hexachloro-1,3-Butadiene | 1.034 | 0.871 | | -15.76 | 30 |
| 1,3-Butadiene | 0.783 | 0.695 | | -11.24 | 30 |
| Naphthalene | 2.423 | 2.040 | | -15.81 | 30 |
| 4-Ethyltoluene | 1.965 | 1.823 | | -7.23 | 30 |
| 1-Bromo-4-Fluorobenzene | 0.822 | 0.866 | | 5.35 | 30 |
| Hexane | 1.633 | 1.367 | | -16.29 | 30 |
| Allyl Chloride | 1.130 | 1.026 | | -9.2 | 30 |
| 1,4-Dioxane | 220.893 | 170.527 | | -22.8 | 30 |
| Methyl Methacrylate | 0.486 | 0.400 | | -17.69 | 30 |

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042416.D
Acq On : 28 Apr 2025 08:44
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 29 01:31:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.784 | 49 | 121989 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.955 | 114 | 345031 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.878 | 117 | 305240 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.374 | 95 | 264197 | 10.533 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 105.300% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.499 | 85 | 219089 | 10.165 | ppbv | 98 |
| 3) Chlorodifluoromethane | 1.476 | 51 | 192111 | 9.360 | ppbv | 99 |
| 4) Chloromethane | 1.531 | 50 | 85195 | 9.988 | ppbv | 98 |
| 5) Vinyl Chloride | 1.580 | 62 | 82863 | 8.925 | ppbv | 100 |
| 6) Bromomethane | 1.667 | 94 | 37396 | 9.376 | ppbv | 83 |
| 7) Chloroethane | 1.703 | 64 | 32235 | 9.600 | ppbv | 99 |
| 8) Dichlorotetrafluoroethane | 1.554 | 85 | 189174 | 10.223 | ppbv | 95 |
| 9) Propene | 1.483 | 41 | 75996 | 8.131 | ppbv | 98 |
| 10) Heptane | 4.975 | 43 | 205785 | 7.837 | ppbv | 98 |
| 11) Trichlorofluoromethane | 1.874 | 101 | 210830 | 10.286 | ppbv | 95 |
| 12) 1,1,2-Trichlorotrifluo... | 2.136 | 101 | 163109 | 9.733 | ppbv | 97 |
| 13) Ethanol | 1.719 | 45 | 4612 | 3.104 | ppbv | 98 |
| 14) Bromoethene | 1.780 | 108 | 63235 | 10.010 | ppbv | 97 |
| 15) Acetone | 1.832 | 43 | 172207 | 8.623 | ppbv | 100 |
| 16) 1,3-Butadiene | 1.609 | 39 | 84816 | 8.880 | ppbv | 98 |
| 17) tert-Butyl alcohol | 2.039 | 59 | 226804 | 9.164 | ppbv | 100 |
| 18) 1,1-Dichloroethene | 2.033 | 96 | 73751 | 9.420 | ppbv | 96 |
| 19) Isopropyl Alcohol | 1.884 | 45 | 101011 | 9.105 | ppbv | 93 |
| 20) Methylene Chloride | 2.059 | 84 | 62506 | 7.992 | ppbv | 90 |
| 21) Allyl Chloride | 2.094 | 41 | 125215 | 9.081 | ppbv | 97 |
| 22) trans-1,2-Dichloroethene | 2.337 | 96 | 81589 | 9.153 | ppbv | 94 |
| 23) Vinyl Acetate | 2.460 | 43 | 64907 | 8.030 | ppbv | 97 |
| 24) 1,1-Dichloroethane | 2.405 | 63 | 163124 | 9.634 | ppbv | 99 |
| 25) Ethyl Acetate | 2.835 | 43 | 425121 | 8.634 | ppbv | 99 |
| 26) Hexane | 2.823 | 57 | 166789 | 8.370 | ppbv | 98 |
| 27) Carbon Disulfide | 2.146 | 76 | 205605 | 9.637 | ppbv | 96 |
| 28) Methyl tert-Butyl Ether | 2.437 | 73 | 116474 | 8.922 | ppbv | 93 |
| 29) Chloroform | 2.845 | 83 | 280938 | 9.975 | ppbv | 99 |
| 30) Cyclohexane | 3.852 | 84 | 142532 | 8.849 | ppbv | 98 |
| 31) cis-1,2-Dichloroethene | 2.719 | 61 | 181514 | 9.581 | ppbv | 96 |
| 32) 1,1,1-Trichloroethane | 3.363 | 97 | 301259 | 9.501 | ppbv | 99 |
| 34) 2-Butanone | 2.554 | 43 | 241047 | 8.834 | ppbv | 99 |
| 35) Carbon Tetrachloride | 3.758 | 117 | 305477 | 9.783 | ppbv | 96 |
| 36) Benzene | 3.654 | 78 | 338736 | 9.102 | ppbv | 97 |
| 37) 1,2-Dichloroethane | 3.214 | 62 | 235966 | 10.564 | ppbv | 97 |
| 38) Trichloroethene | 4.541 | 130 | 136731 | 8.406 | ppbv | 95 |
| 39) 1,2-Dichloropropane | 4.308 | 63 | 122213 | 8.813 | ppbv | 97 |
| 40) 1,4-Dioxane | 4.577 | 88 | 58837 | 7.720 | ppbv # | 95 |
| 41) Tetrahydrofuran | 3.052 | 42 | 133063 | 8.363 | ppbv | 99 |
| 42) Bromodichloromethane | 4.483 | 83 | 310726 | 9.996 | ppbv # | 96 |
| 43) Methyl Methacrylate | 4.878 | 69 | 138030 | 8.230 | ppbv | 94 |
| 44) 2,2,4-Trimethylpentane | 4.635 | 57 | 562403 | 8.750 | ppbv | 96 |
| 45) t-1,3-Dichloropropene | 6.409 | 75 | 157191 | 9.175 | ppbv | 95 |

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042416.D
Acq On : 28 Apr 2025 08:44
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 29 01:31:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.593 | 75 | 191165 | 9.117 | ppbv # | 88 |
| 47) 1,1,2-Trichloroethane | 6.574 | 97 | 133821 | 9.471 | ppbv | 96 |
| 48) Dibromochloromethane | 7.383 | 129 | 245439 | 9.832 | ppbv | 99 |
| 49) Bromoform | 9.480 | 173 | 198991 | 9.117 | ppbv | 100 |
| 50) 4-Methyl-2-Pentanone | 5.748 | 43 | 356129 | 7.854 | ppbv | 99 |
| 51) 2-Hexanone | 7.431 | 43 | 287045 | 7.058 | ppbv | 98 |
| 52) Tetrachloroethene | 8.221 | 164 | 114038 | 7.928 | ppbv | 91 |
| 53) Toluene | 6.927 | 91 | 398162 | 8.916 | ppbv | 100 |
| 54) 1,2-Dibromoethane | 7.648 | 107 | 189639 | 9.378 | ppbv | 92 |
| 56) 1,1,1,2-Tetrachloroethane | 8.920 | 131 | 184161 | 9.969 | ppbv | 97 |
| 57) Chlorobenzene | 8.917 | 112 | 300677 | 9.471 | ppbv | 98 |
| 58) Ethyl Benzene | 9.354 | 91 | 568129 | 9.394 | ppbv | 98 |
| 59) m/p-Xylene | 9.548 | 91 | 929203m | 19.073 | ppbv | |
| 60) o-Xylene | 9.963 | 91 | 466411 | 9.507 | ppbv | 97 |
| 61) Styrene | 9.865 | 104 | 213119 | 9.101 | ppbv | 98 |
| 62) Isopropylbenzene | 10.535 | 105 | 680837 | 9.452 | ppbv | 99 |
| 63) 1,1,2,2-Tetrachloroethane | 9.959 | 83 | 274653 | 8.639 | ppbv | 99 |
| 64) n-propylbenzene | 10.989 | 120 | 166984 | 9.223 | ppbv | 98 |
| 65) tert-Butylbenzene | 11.529 | 119 | 610304 | 9.219 | ppbv | 95 |
| 66) Benzyl Chloride | 11.613 | 91 | 59187 | 8.136 | ppbv | 99 |
| 67) sec-Butylbenzene | 11.765 | 105 | 854169 | 9.276 | ppbv | 99 |
| 69) p-Isopropyltoluene | 11.924 | 119 | 732365 | 9.155 | ppbv | 97 |
| 70) n-Butylbenzene | 12.280 | 91 | 765539 | 9.188 | ppbv | 99 |
| 71) 2-Chlorotoluene | 10.898 | 91 | 534834 | 9.467 | ppbv | 98 |
| 72) 4-Ethyltoluene | 11.121 | 105 | 556591 | 9.280 | ppbv | 97 |
| 73) 1,3,5-Trimethylbenzene | 11.202 | 105 | 487223 | 9.201 | ppbv | 98 |
| 74) 1,2,4-Trimethylbenzene | 11.536 | 105 | 541720 | 8.759 | ppbv | 94 |
| 75) 1,3-Dichlorobenzene | 11.607 | 146 | 287285 | 8.936 | ppbv | 97 |
| 76) 1,4-Dichlorobenzene | 11.671 | 146 | 290512 | 8.991 | ppbv | 98 |
| 77) 1,2-Dichlorobenzene | 11.943 | 146 | 279962 | 8.956 | ppbv | 98 |
| 78) Hexachloro-1,3-Butadiene | 13.879 | 225 | 265745 | 8.419 | ppbv | 100 |
| 79) Naphthalene | 13.513 | 128 | 622606 | 8.418 | ppbv | 99 |
| 80) Naphthalene,2-methyl- | 14.455 | 142 | 328047 | 7.783 | ppbv | 95 |
| 81) 1,2,4-Trichlorobenzene | 13.439 | 180 | 269711 | 8.493 | ppbv | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

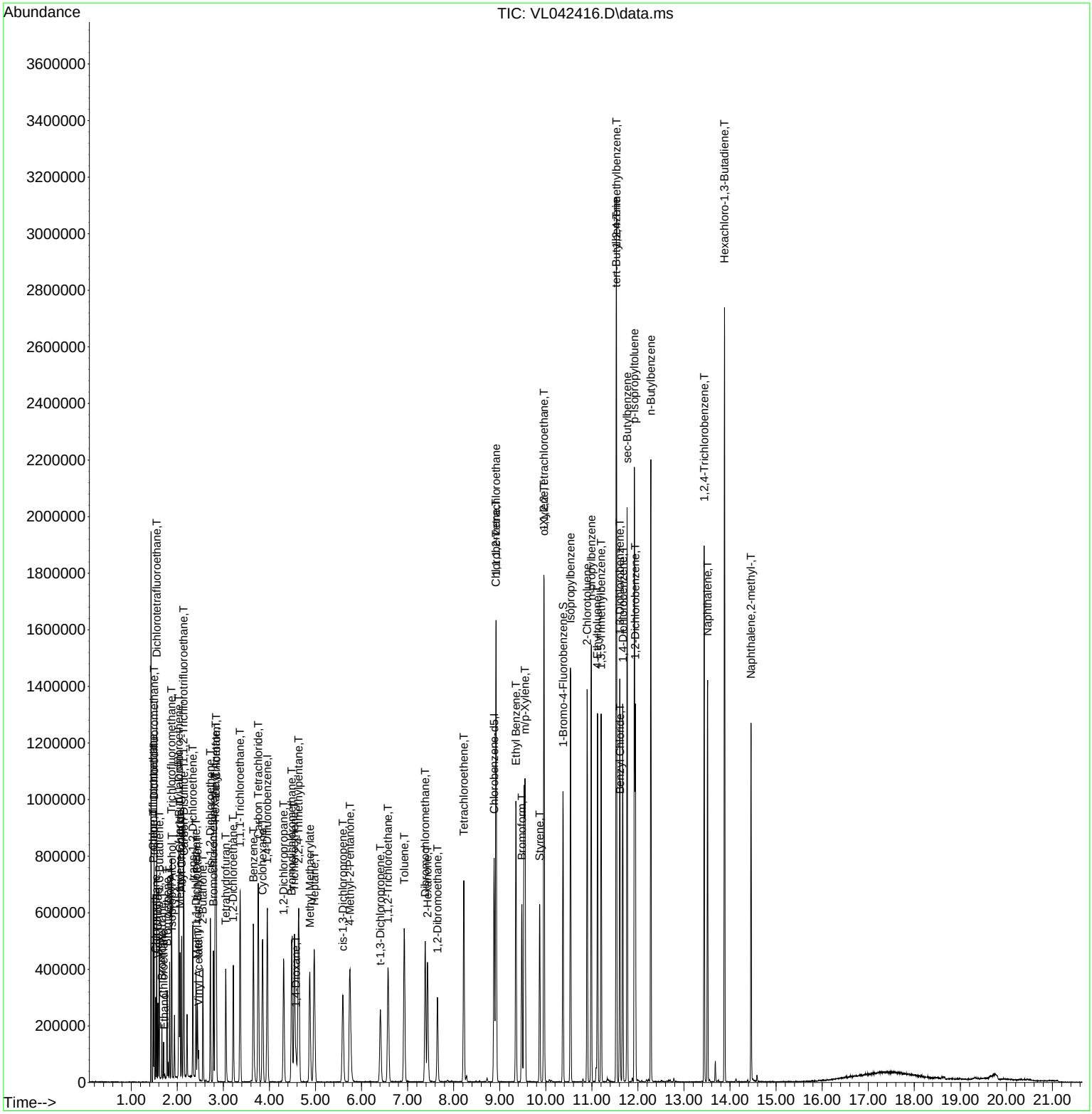
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042416.D
Acq On : 28 Apr 2025 08:44
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

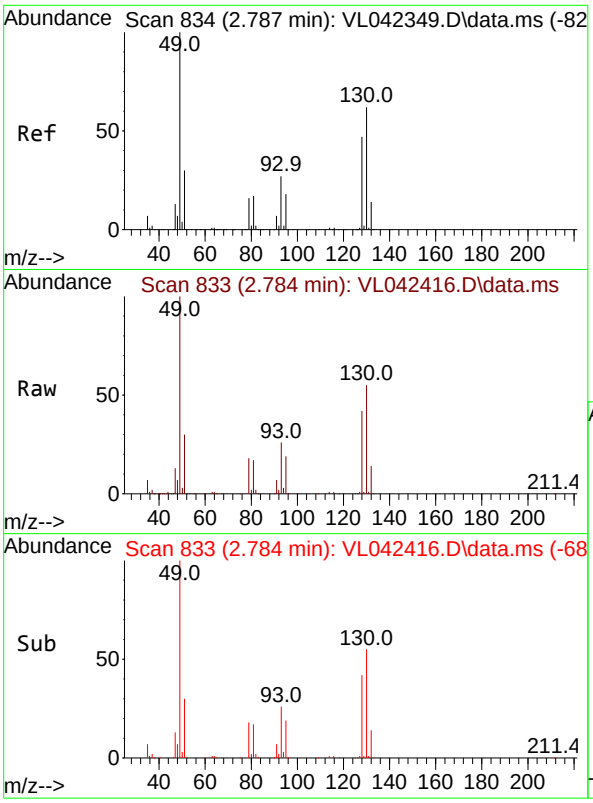
Quant Time: Apr 29 01:31:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

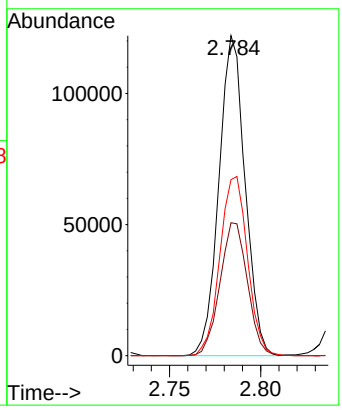





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 49 Resp: 12198

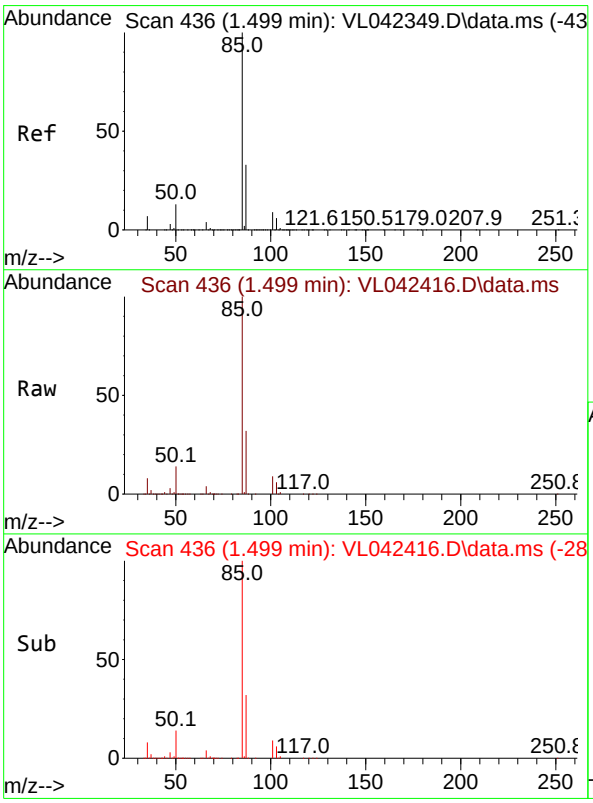
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 43.6 | 22.8 | 68.4 |
| 130 | 59.0 | 29.3 | 88.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
**APPROVED**

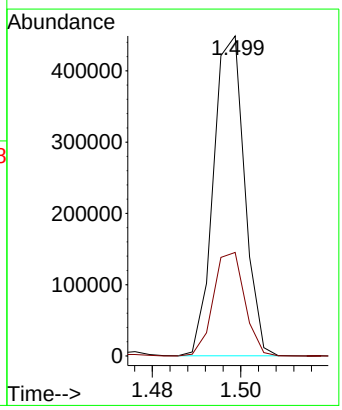
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

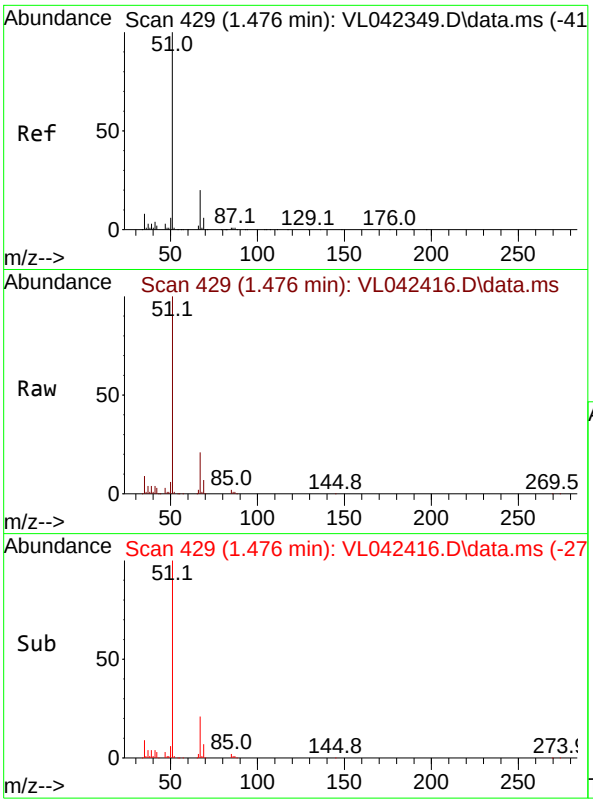



#2
Dichlorodifluoromethane
Concen: 10.165 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 85 Resp: 219089

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.3 | 26.6 | 39.8 |

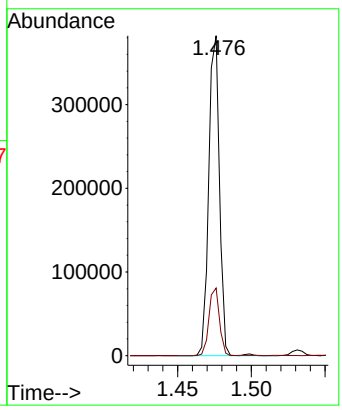





#3
Chlorodifluoromethane
Concen: 9.360 ppbv
RT: 1.476 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 51 Resp: 19211

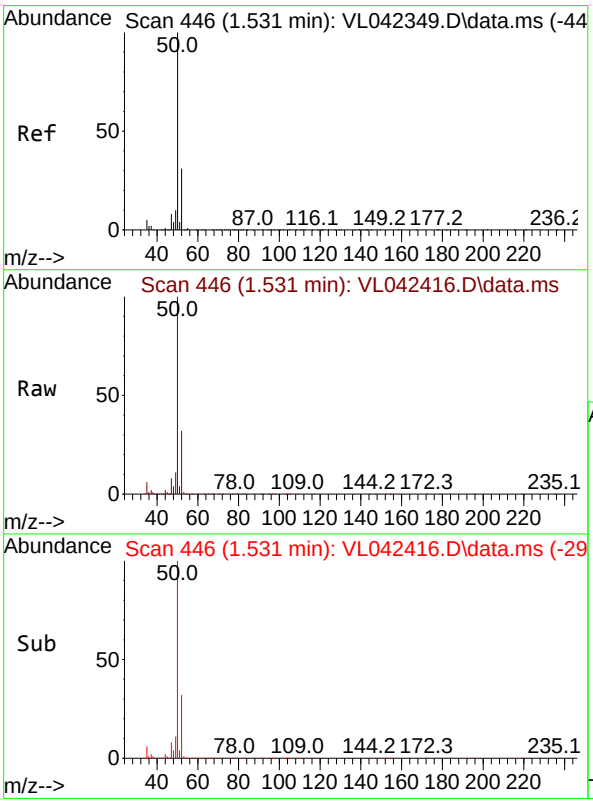
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 21.0 | 16.2 | 24.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
**APPROVED**

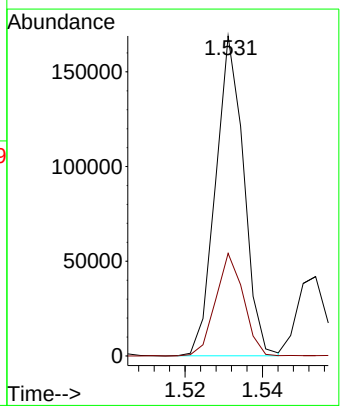
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

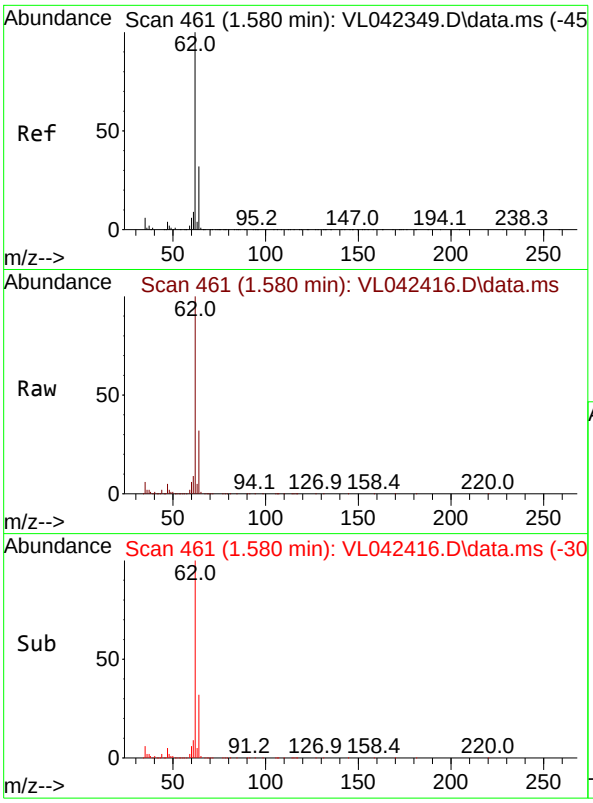



#4
Chloromethane
Concen: 9.988 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 50 Resp: 85195

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.0 | 24.7 | 37.1 |

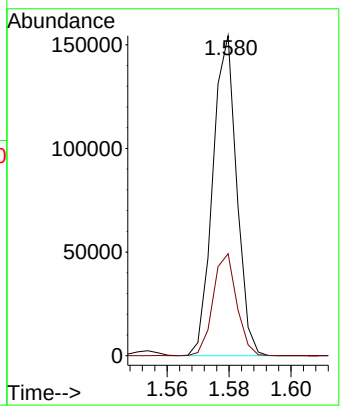





#5
Vinyl Chloride
Concen: 8.925 ppbv
RT: 1.580 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 62 Resp: 8286

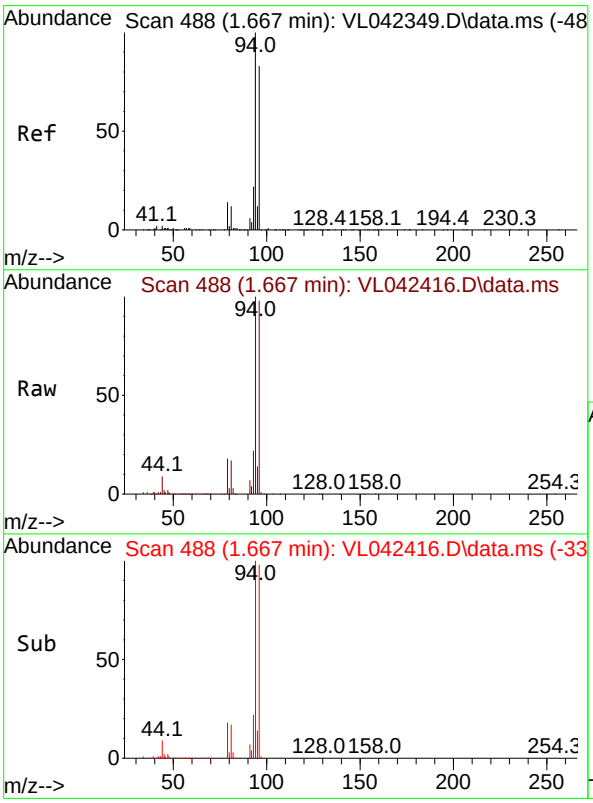
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.8 | 25.4 | 38.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
**APPROVED**

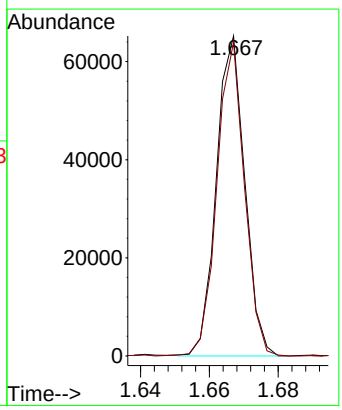
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

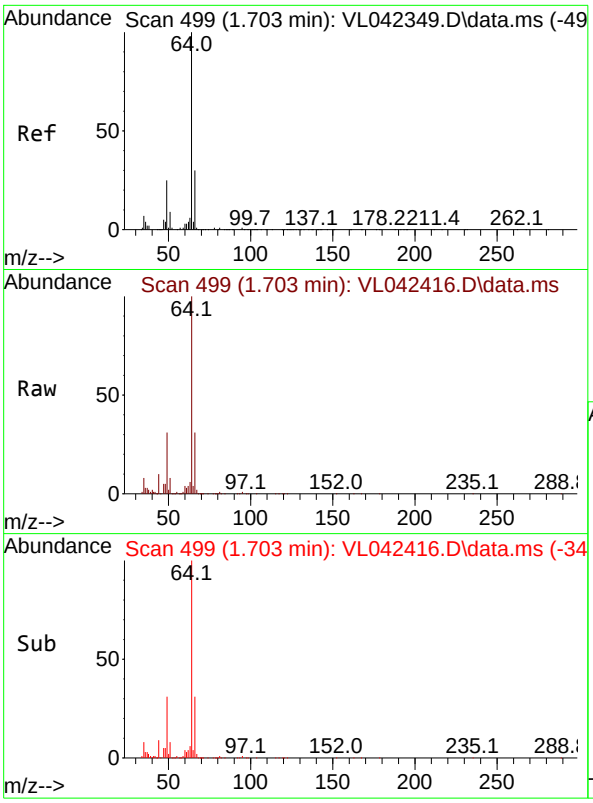



#6
Bromomethane
Concen: 9.376 ppbv
RT: 1.667 min Scan# 488
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 94 Resp: 37396

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 97.7 | 66.2 | 99.2 |

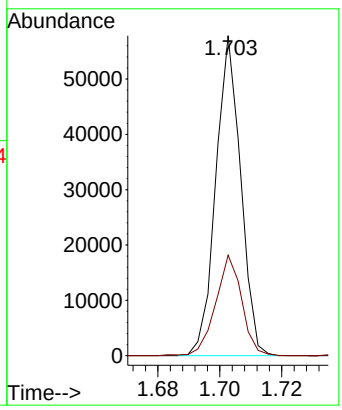





#7
Chloroethane
Concen: 9.600 ppbv
RT: 1.703 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 64 Resp: 3223

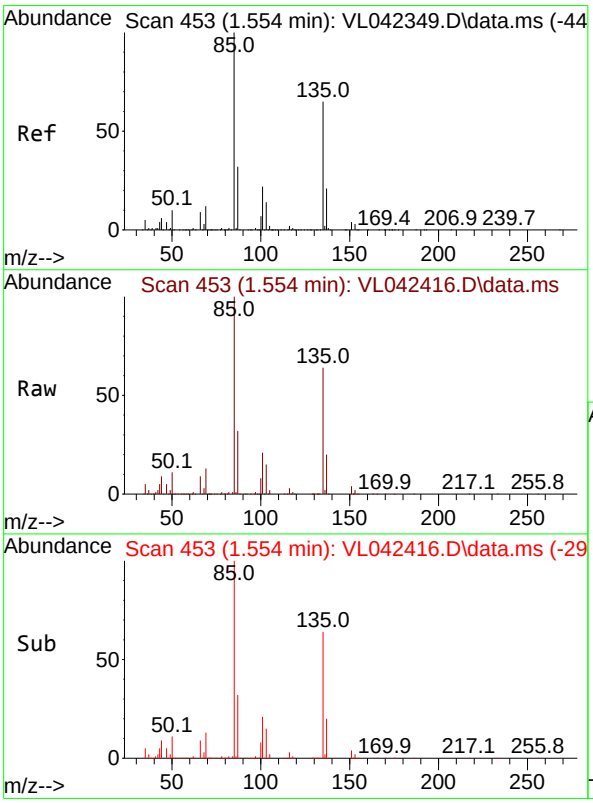
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 31.4 | 24.6 | 37.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
**APPROVED**

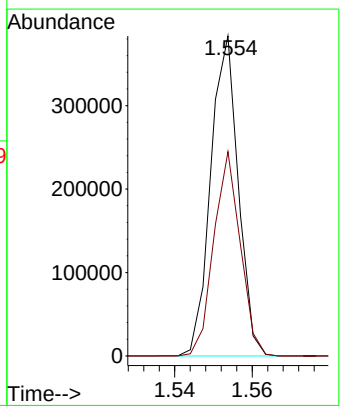
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

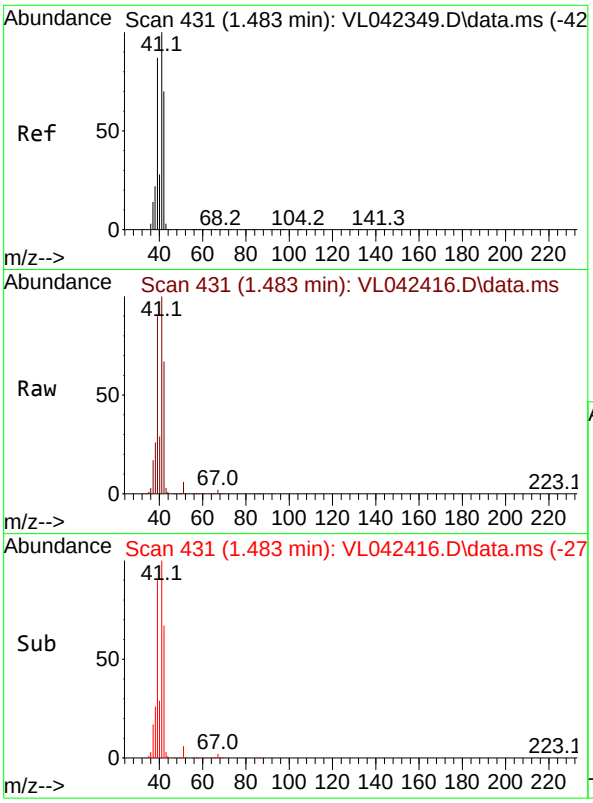



#8
Dichlorotetrafluoroethane
Concen: 10.223 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 85 Resp: 189174

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 61.6 | 52.2 | 78.2 |

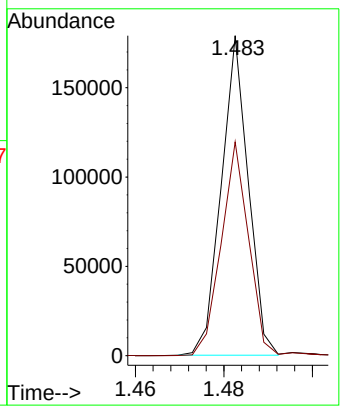





#9
Propene
Concen: 8.131 ppbv
RT: 1.483 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 41 Resp: 7599

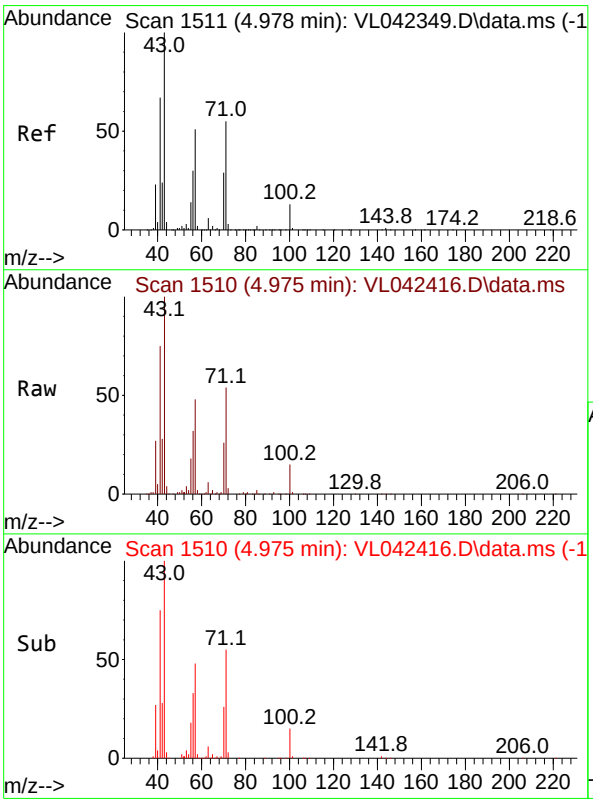
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 69.0 | 56.2 | 84.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
**APPROVED**

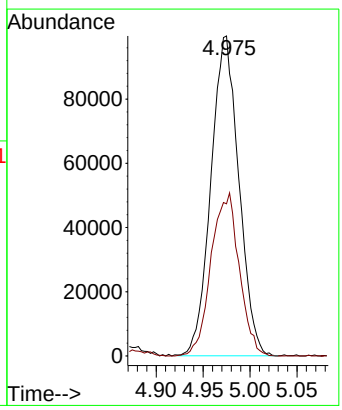
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

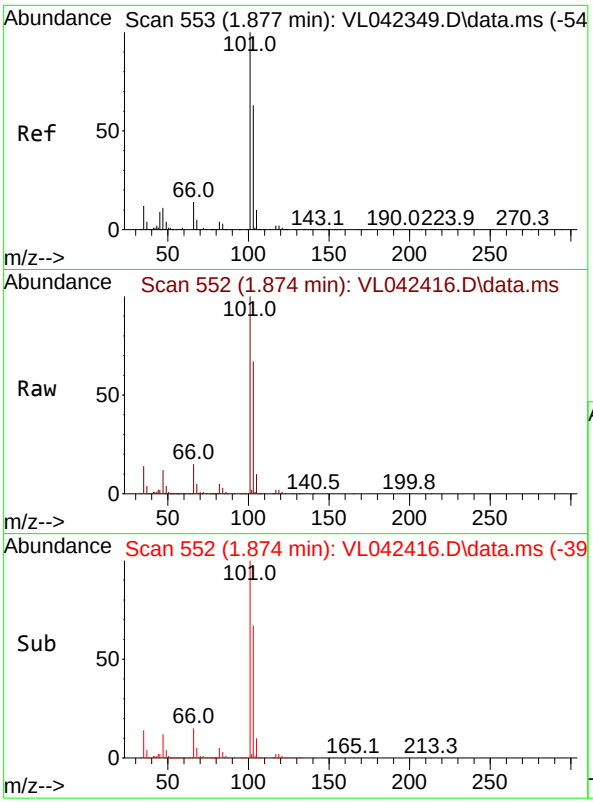



#10
Heptane
Concen: 7.837 ppbv
RT: 4.975 min Scan# 1510
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 43 Resp: 205785

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 51.3 | 39.9 | 59.9 |






#11
Trichlorofluoromethane
Concen: 10.286 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

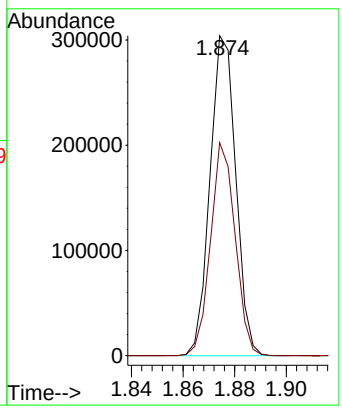
Tgt Ion:101 Resp: 21083

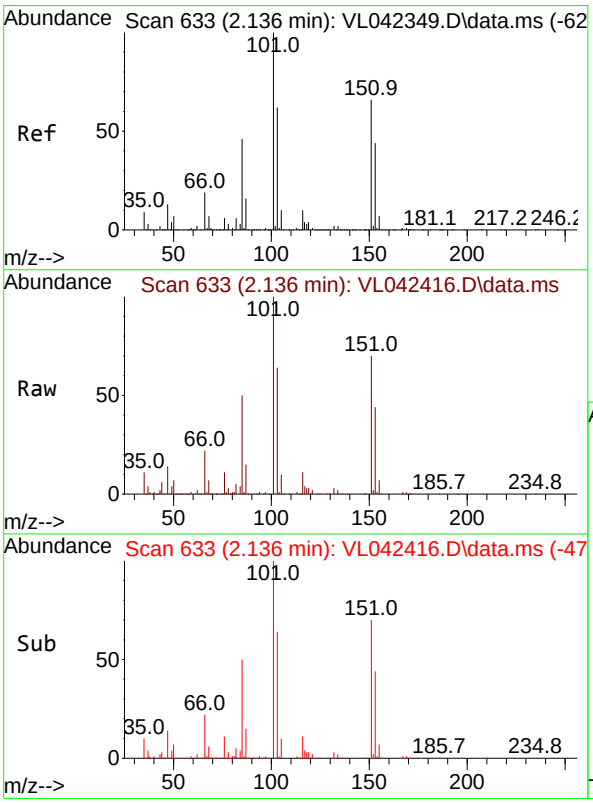
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 66.6 | 50.1 | 75.1 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

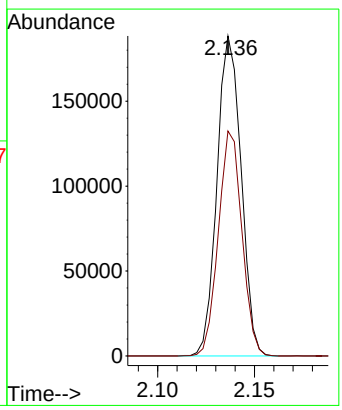


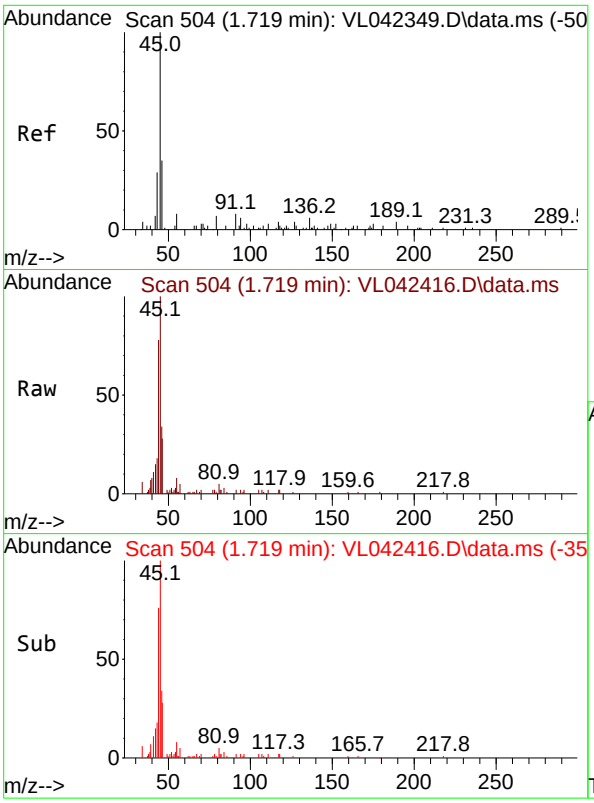




#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.733 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion:101 Resp: 163109

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 68.6 | 57.0 | 85.6 |

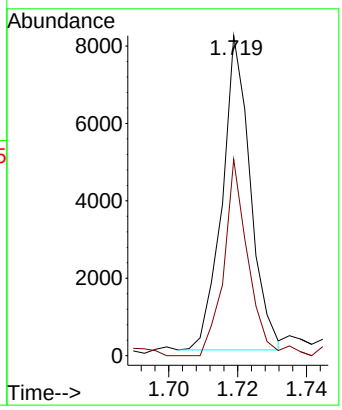





#13
Ethanol
Concen: 3.104 ppbv
RT: 1.719 min Scan# 5(
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 45 Resp: 461

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 56.4 | 21.9 | 87.7 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

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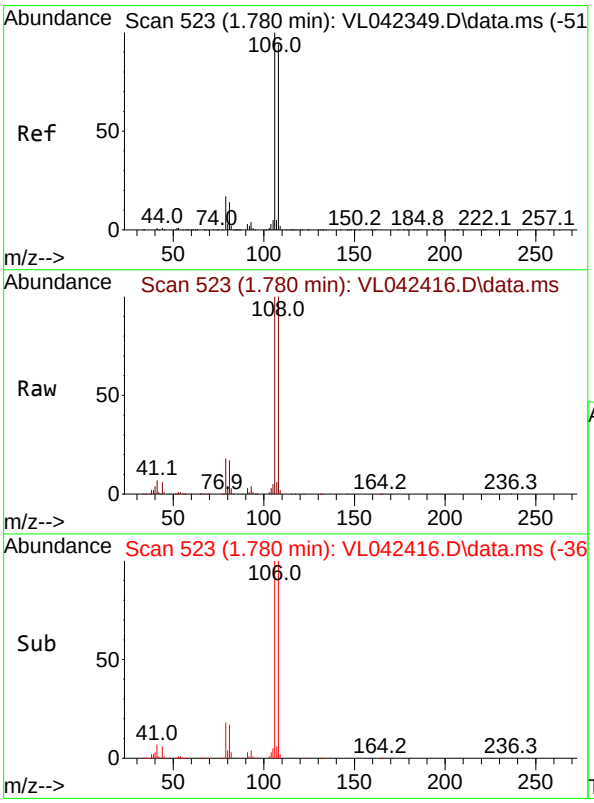
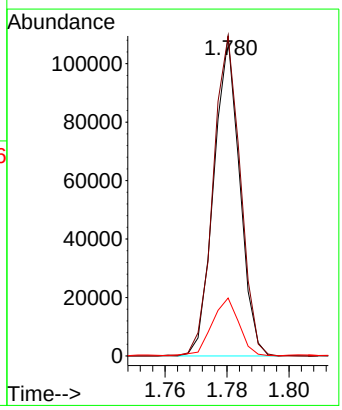
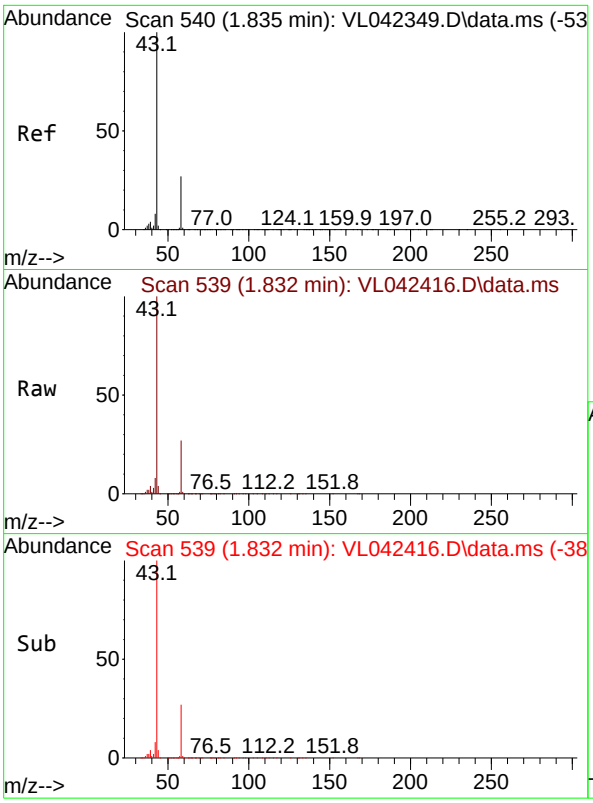



#14
Bromoethene
Concen: 10.010 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion:108 Resp: 63235

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 106 | 105.2 | 85.9 | 128.9 |
| 79 | 20.7 | 13.9 | 20.9 |

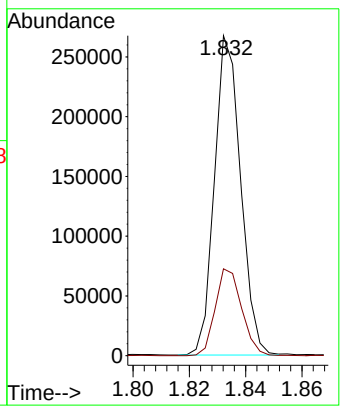





#15
Acetone
Concen: 8.623 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 43 Resp: 17220

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 27.7 | 22.4 | 33.6 |

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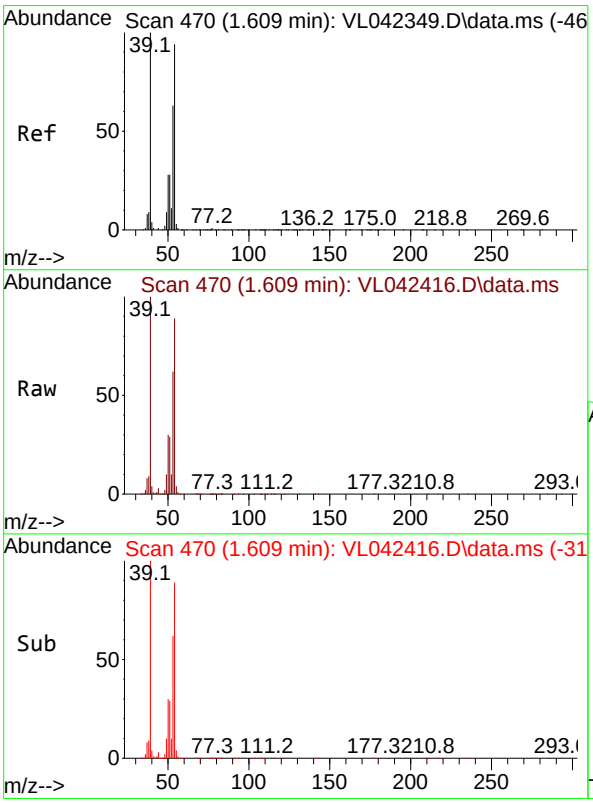
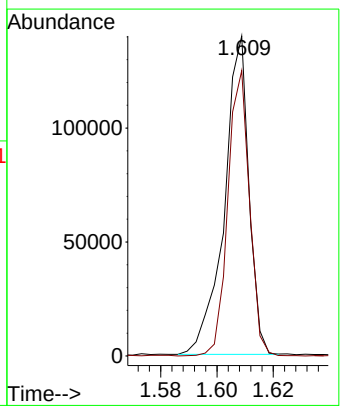
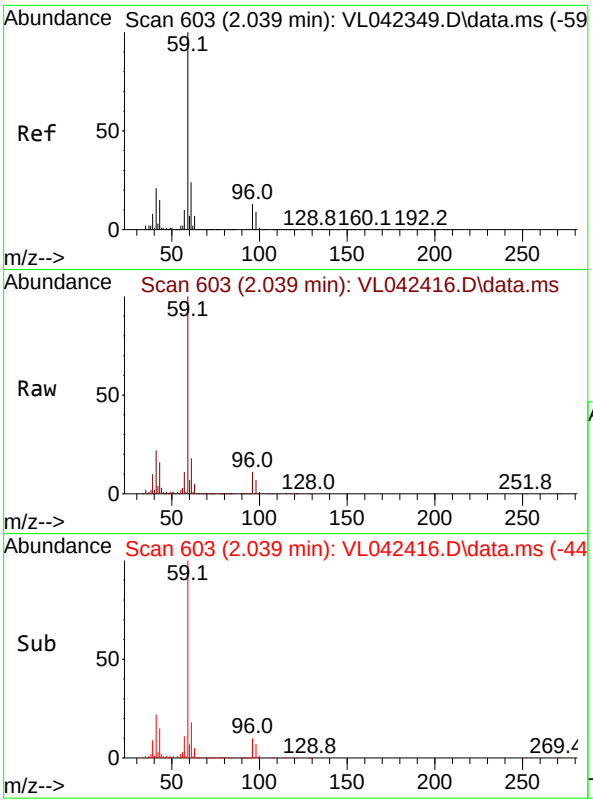



#16
1,3-Butadiene
Concen: 8.880 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 39 Resp: 84816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 79.2 | 64.9 | 97.3 |

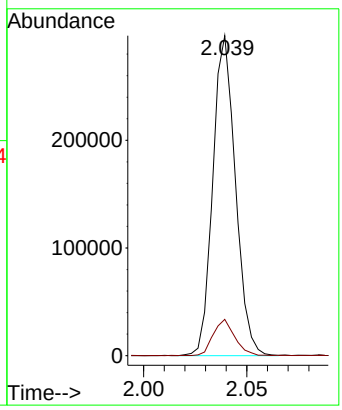





#17
tert-Butyl alcohol
Concen: 9.164 ppbv
RT: 2.039 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 59 Resp: 22680

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.8 | 8.7 | 13.1 |

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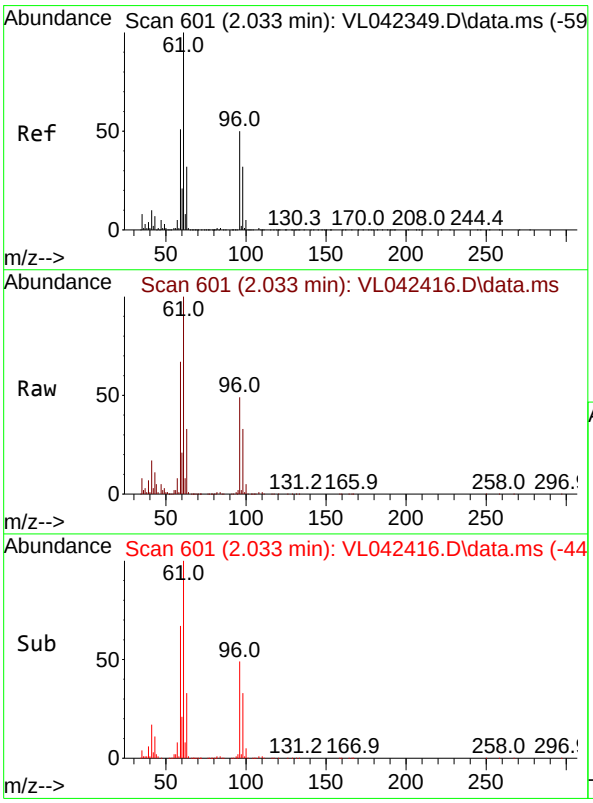
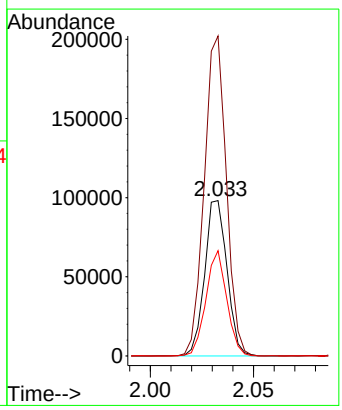
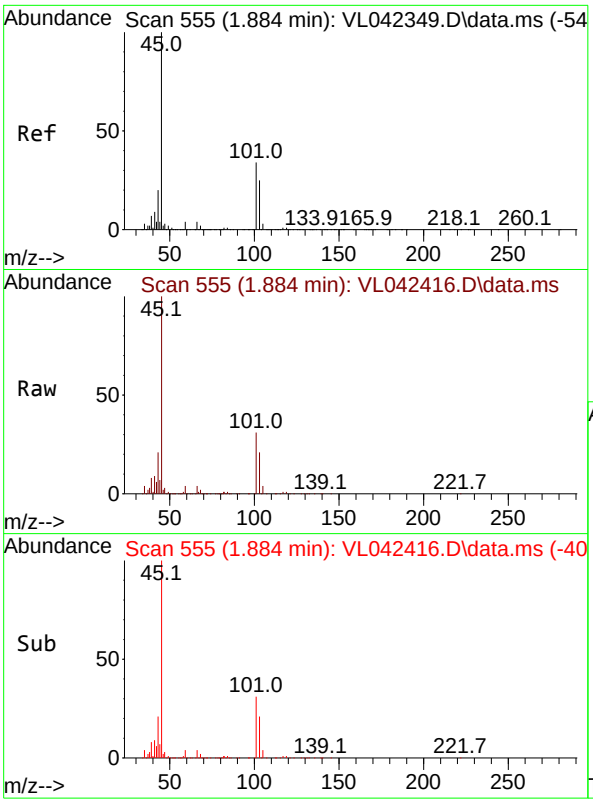



#18
1,1-Dichloroethene
Concen: 9.420 ppbv
RT: 2.033 min Scan# 601
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 96 Resp: 73751

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 205.9 | 160.2 | 240.2 |
| 98 | 67.8 | 51.0 | 76.4 |

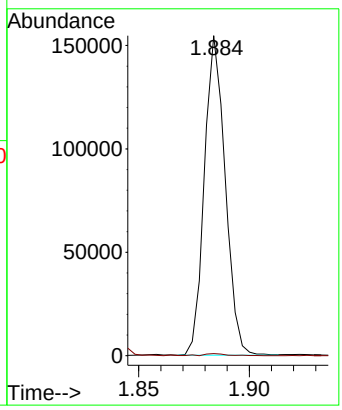





#19
Isopropyl Alcohol
Concen: 9.105 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 45 Resp: 10101

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 47.3 | 34.5 | 51.7 |

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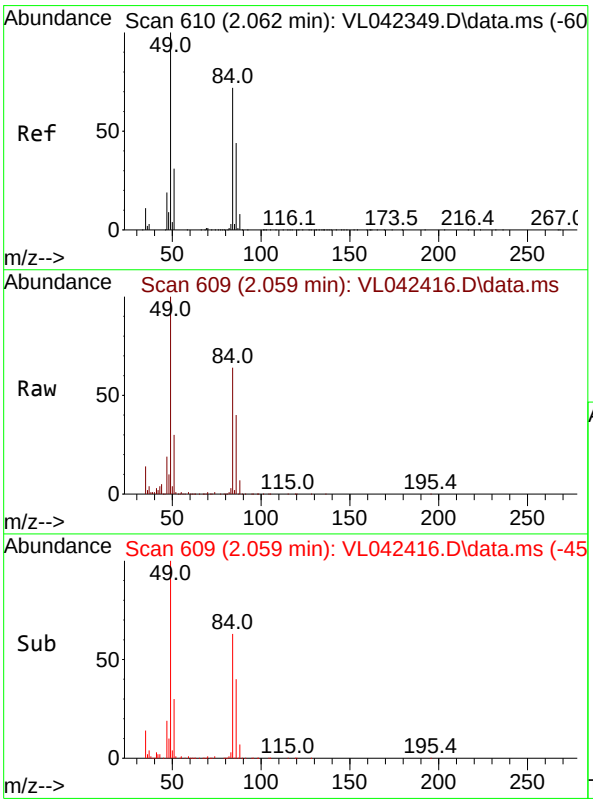
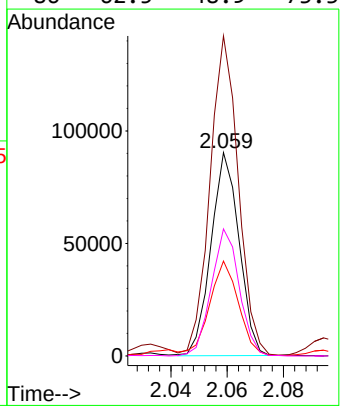
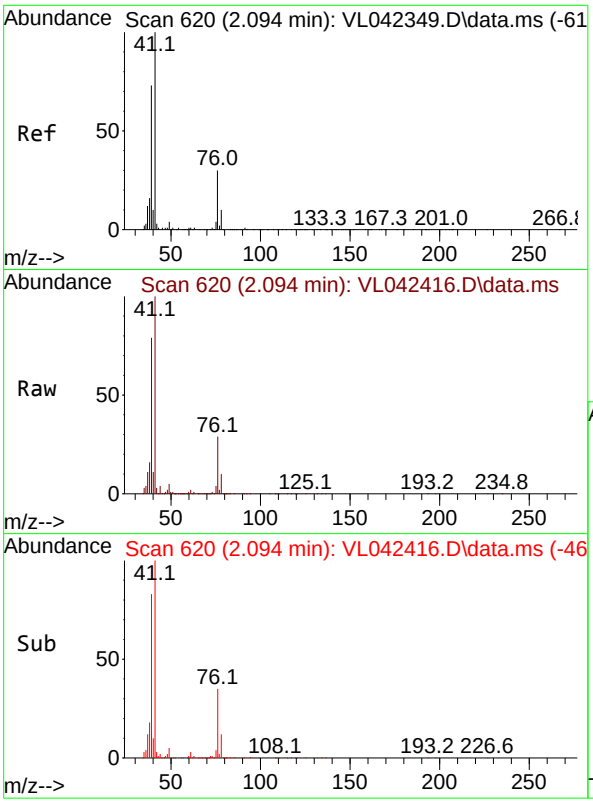



#20
Methylene Chloride
Concen: 7.992 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 84 Resp: 62506

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 157.3 | 111.6 | 167.4 |
| 51 | 46.5 | 35.1 | 52.7 |
| 86 | 62.5 | 48.9 | 73.3 |

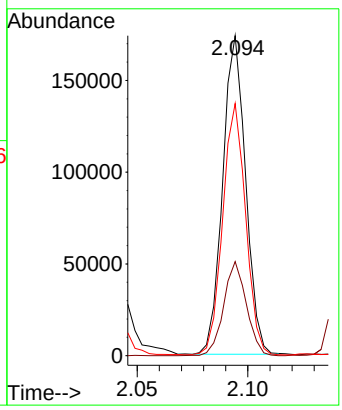





#21
Allyl Chloride
Concen: 9.081 ppbv
RT: 2.094 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 41 Resp: 12521

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 29.2 | 24.8 | 37.2 |
| 39 | 78.4 | 60.6 | 90.8 |




**Instrument :**
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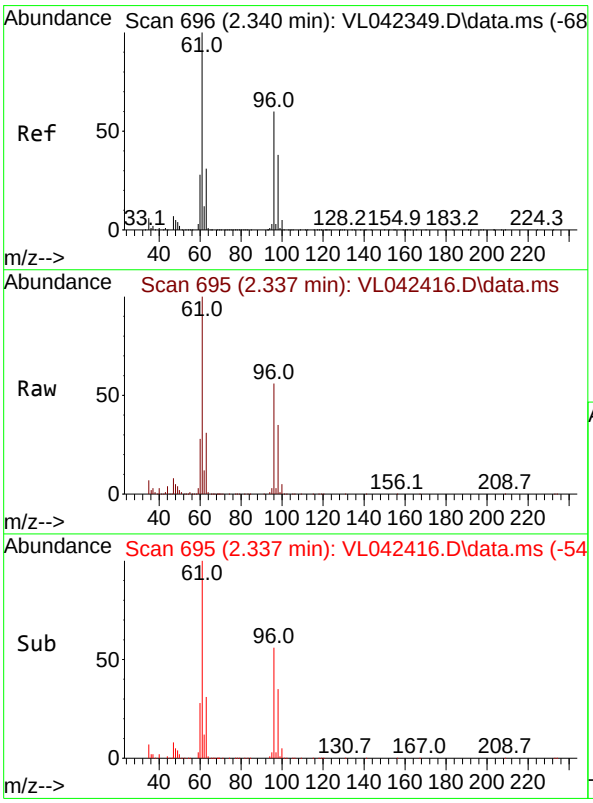
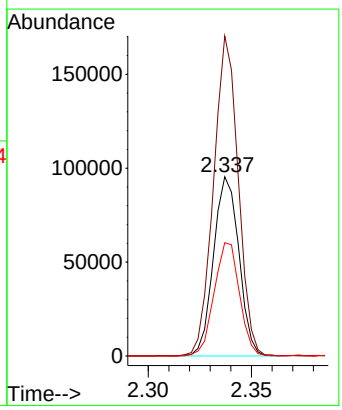
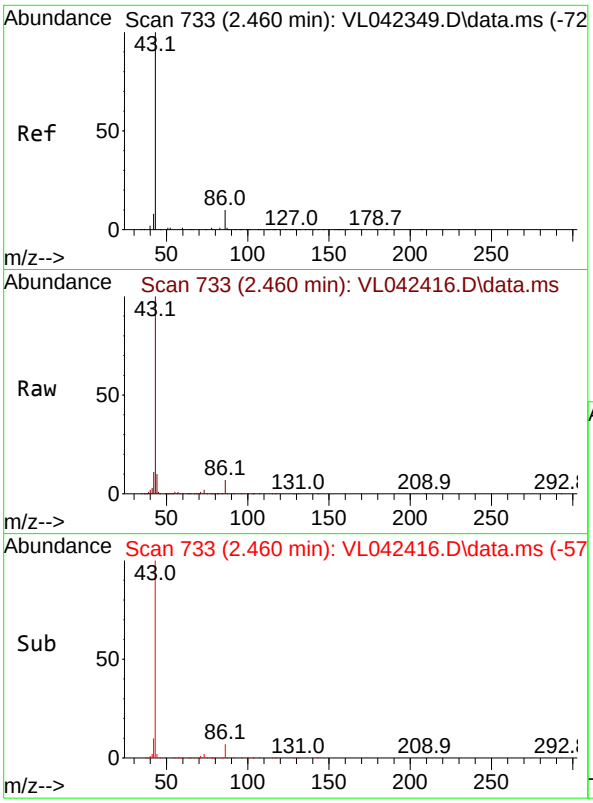



#22
trans-1,2-Dichloroethene
Concen: 9.153 ppbv
RT: 2.337 min Scan# 695
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 96 Resp: 81589

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 178.4 | 133.7 | 200.5 |
| 98 | 63.2 | 50.3 | 75.5 |

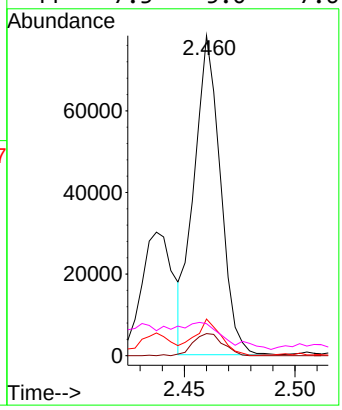





#23
Vinyl Acetate
Concen: 8.030 ppbv
RT: 2.460 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 43 Resp: 6490

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 6.9 | 6.5 | 9.7 |
| 42 | 11.1 | 7.8 | 11.8 |
| 44 | 7.3 | 5.0 | 7.6 |

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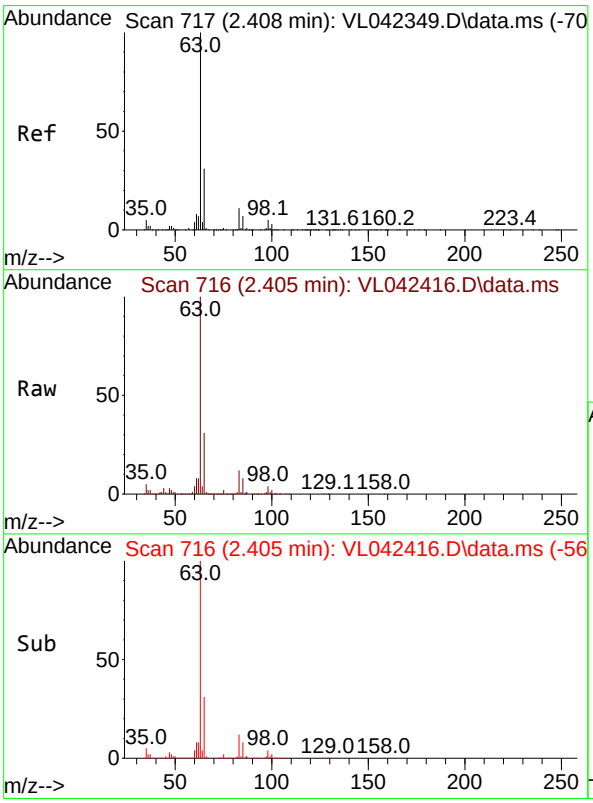
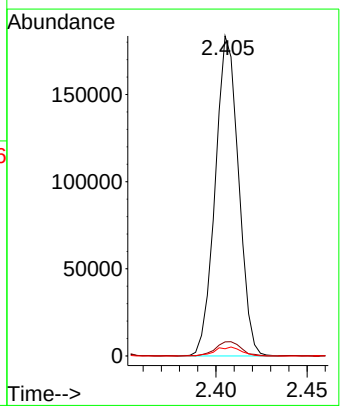
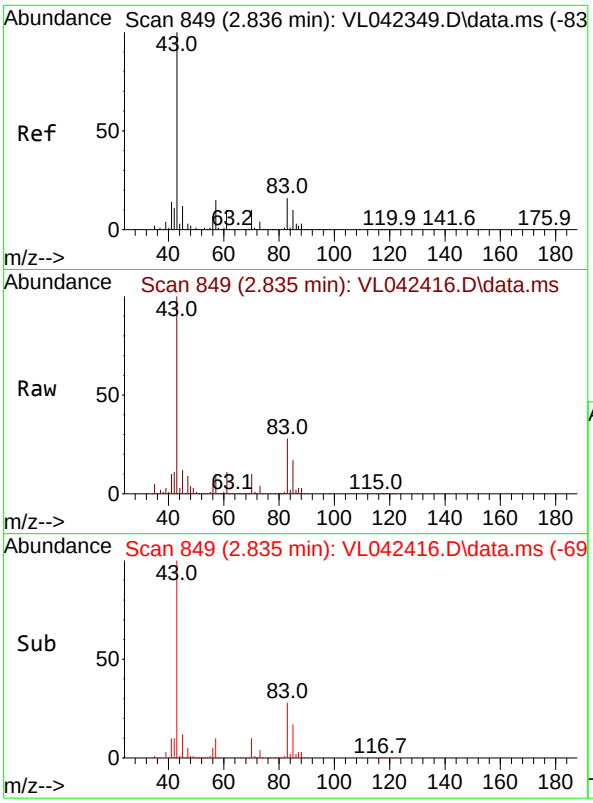



#24
1,1-Dichloroethane
Concen: 9.634 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 63 Resp: 163124

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 4.4 | 2.3 | 6.8 |
| 100 | 2.2 | 1.6 | 4.8 |

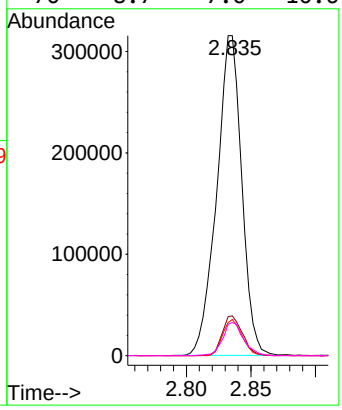





#25
Ethyl Acetate
Concen: 8.634 ppbv
RT: 2.835 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 43 Resp: 42512

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 10.1 | 8.3 | 12.5 |
| 61 | 8.9 | 7.3 | 10.9 |
| 70 | 8.7 | 7.0 | 10.6 |

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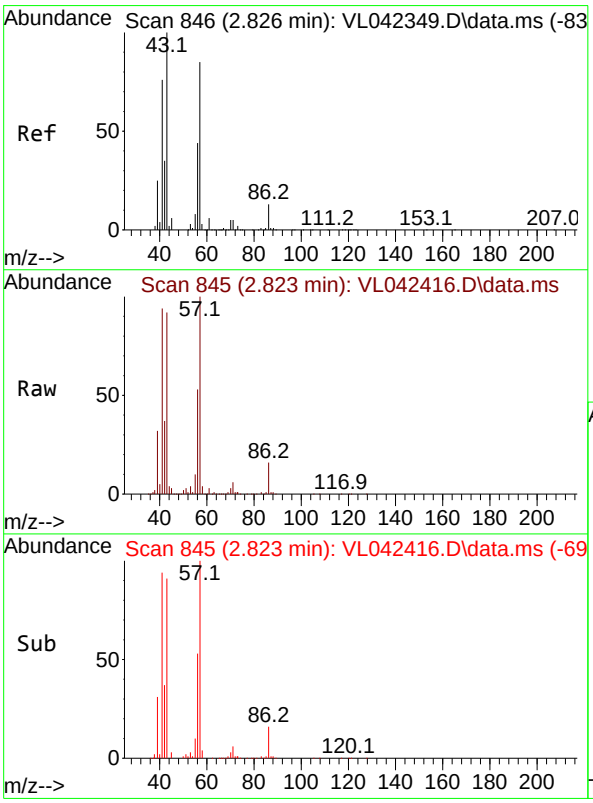
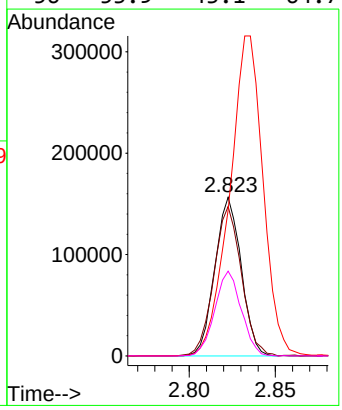
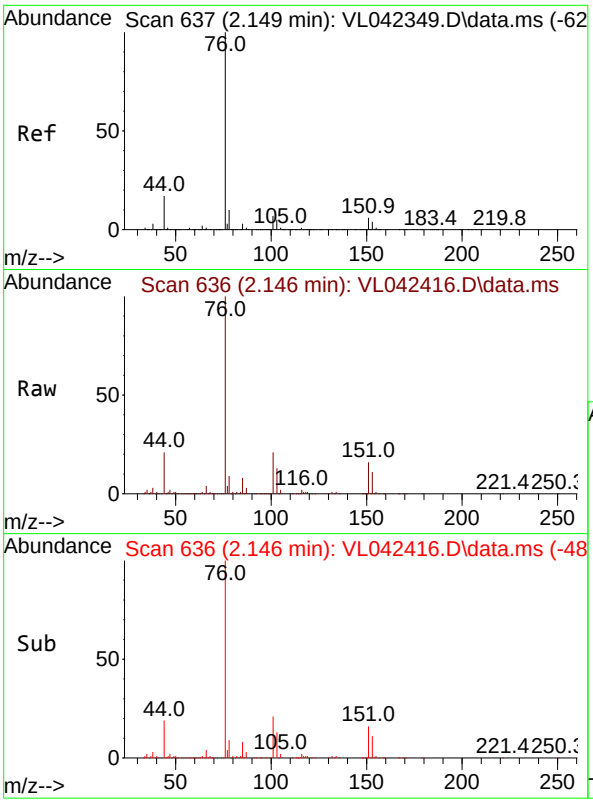



#26
Hexane
Concen: 8.370 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 57 Resp: 166789

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 98.4 | 77.9 | 116.9 |
| 43 | 256.1 | 208.4 | 312.6 |
| 56 | 53.9 | 43.1 | 64.7 |

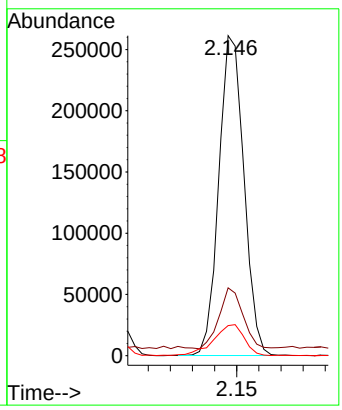





#27
Carbon Disulfide
Concen: 9.637 ppbv
RT: 2.146 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 76 Resp: 20560

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 22.2 | 15.5 | 23.3 |
| 78 | 12.1 | 9.3 | 13.9 |

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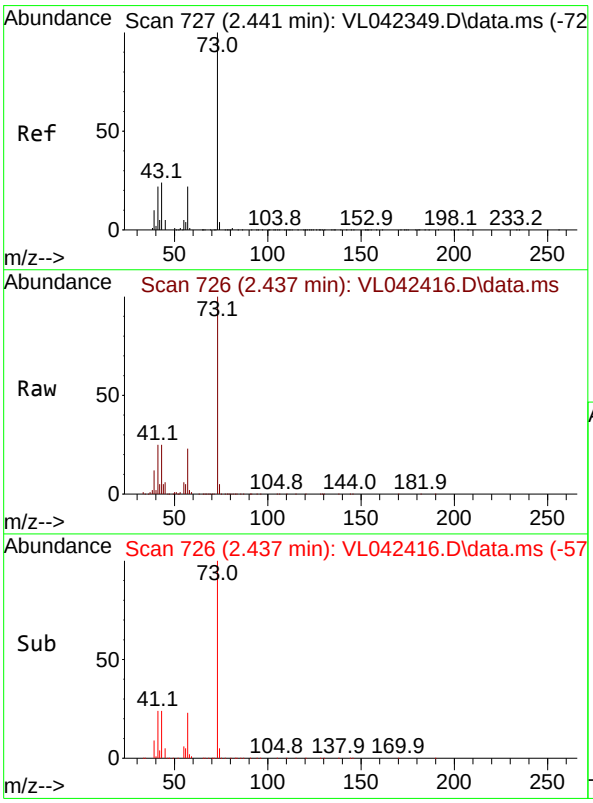
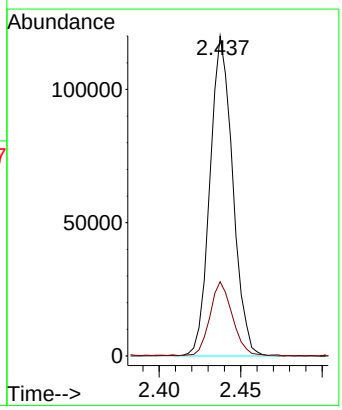
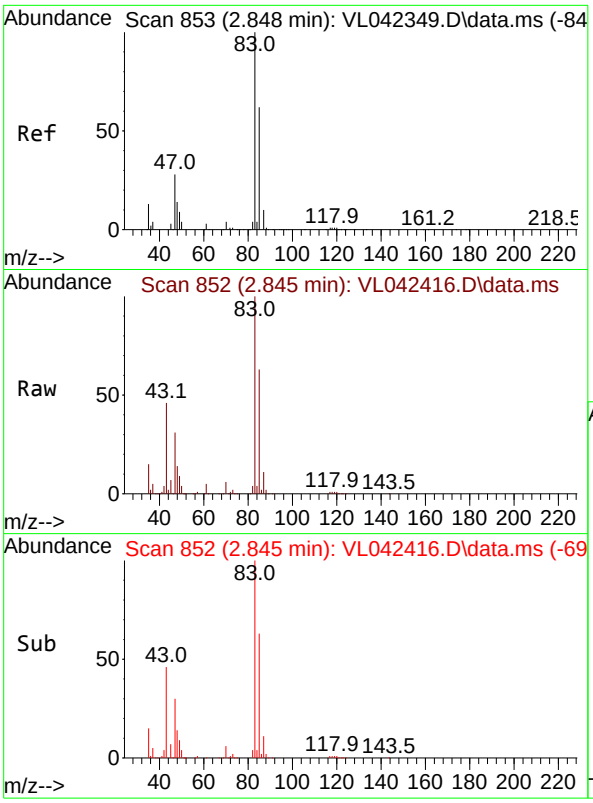



#28
Methyl tert-Butyl Ether
Concen: 8.922 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 73 Resp: 116474

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 23.1 | 21.3 | 31.9 |






#29
Chloroform
Concen: 9.975 ppbv
RT: 2.845 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 83 Resp: 28093

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.3 | 50.0 | 75.0 |

**Instrument :**
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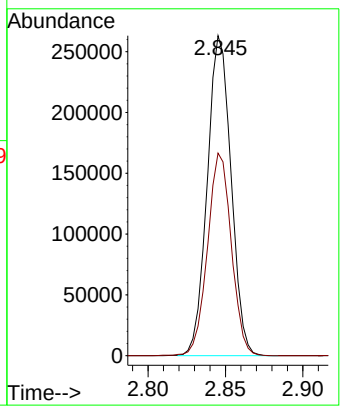
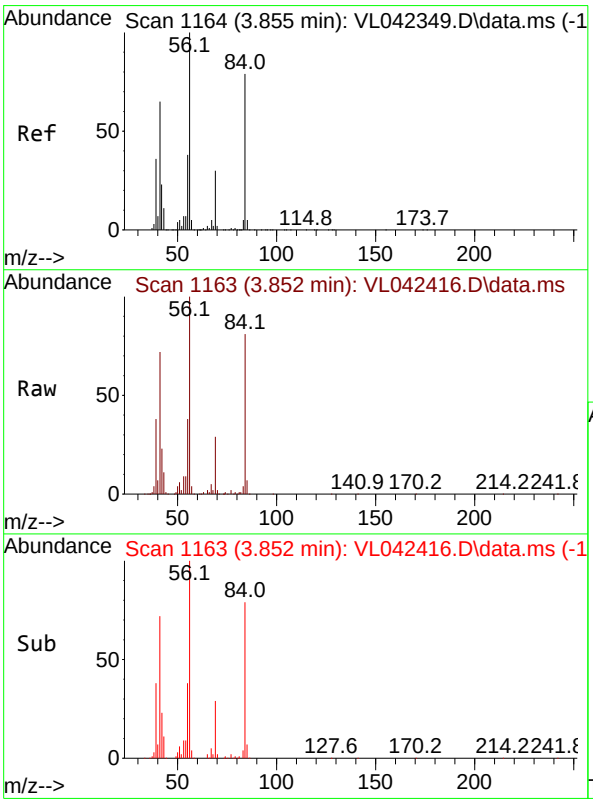
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

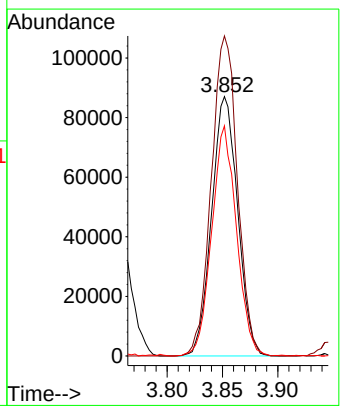


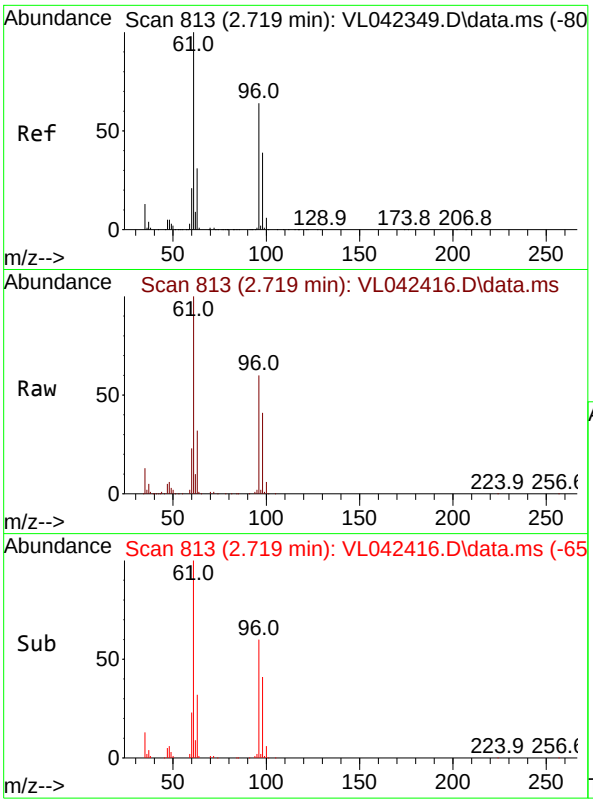




#30
Cyclohexane
Concen: 8.849 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 84 Resp: 142532

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 123.7 | 101.0 | 151.4 |
| 41 | 84.7 | 67.4 | 101.0 |

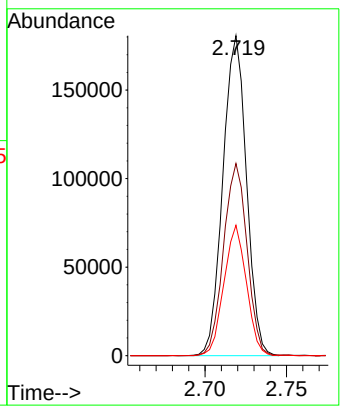





#31
cis-1,2-Dichloroethene
Concen: 9.581 ppbv
RT: 2.719 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 61 Resp: 18151

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 60.1 | 50.8 | 76.2 |
| 98 | 40.8 | 30.9 | 46.3 |

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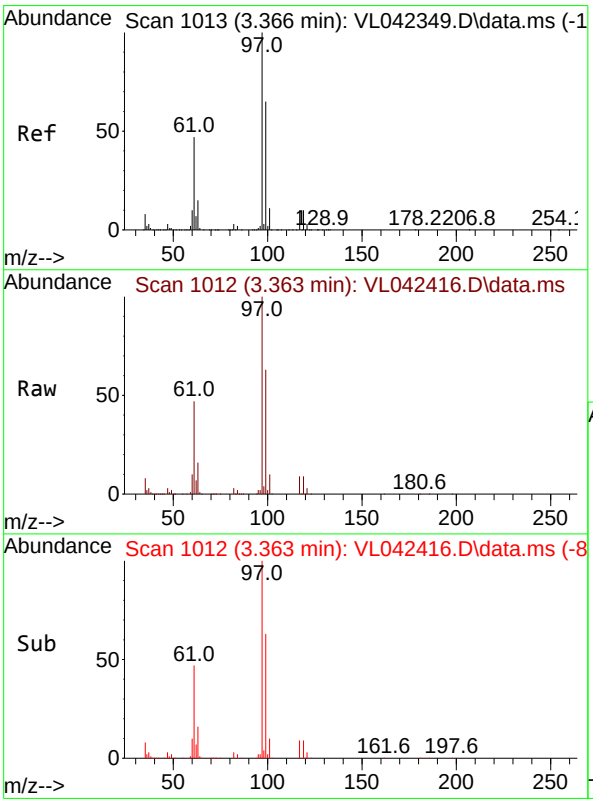
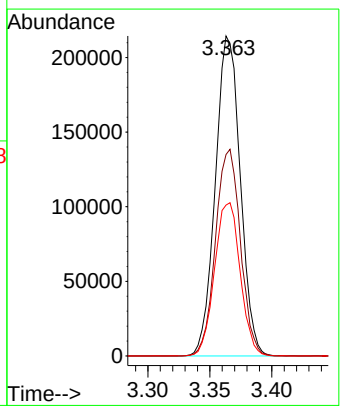
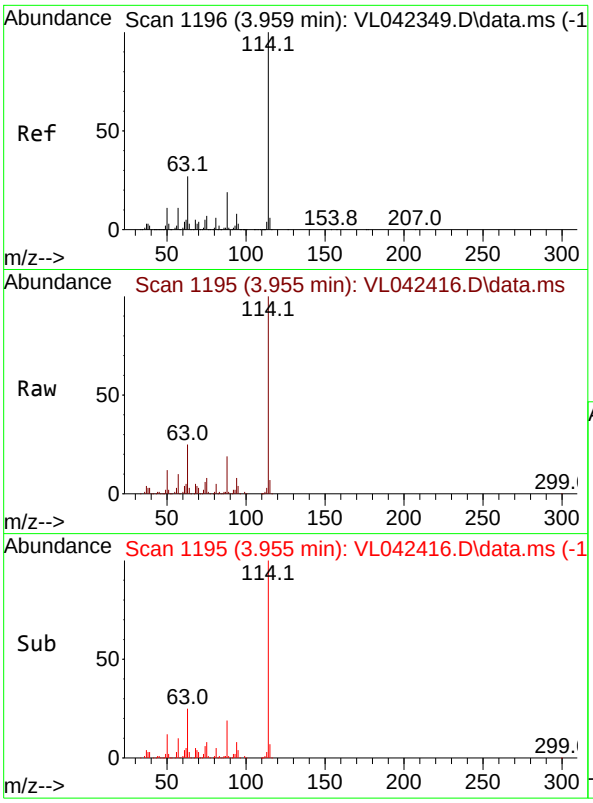



#32
1,1,1-Trichloroethane
Concen: 9.501 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 97 Resp: 301259

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.6 | 51.0 | 76.4 |
| 61 | 49.3 | 38.8 | 58.2 |

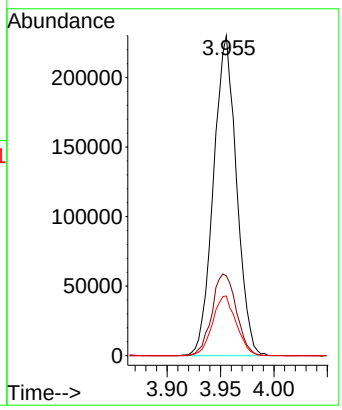





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion:114 Resp: 34503

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 27.2 | 21.8 | 32.6 |
| 88 | 19.2 | 15.5 | 23.3 |

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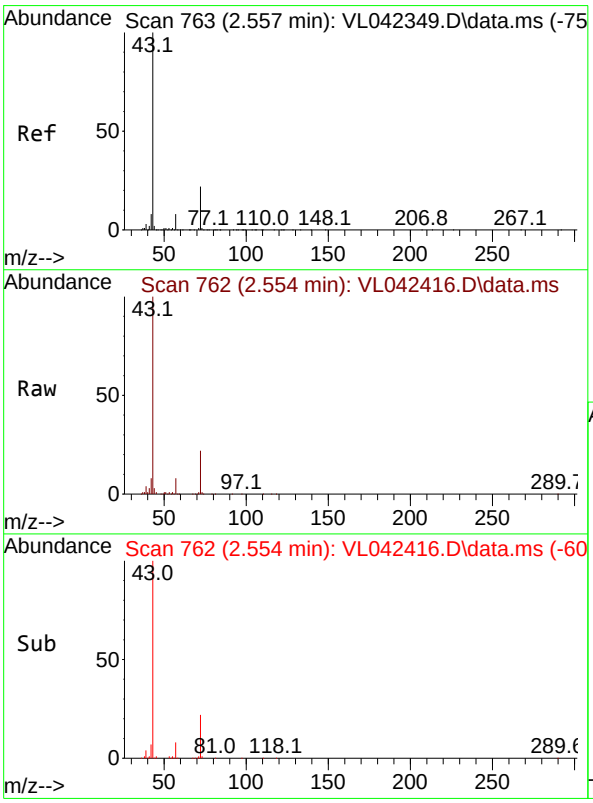
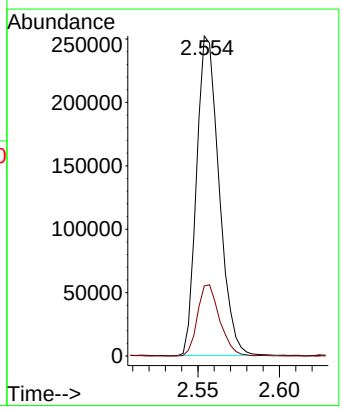
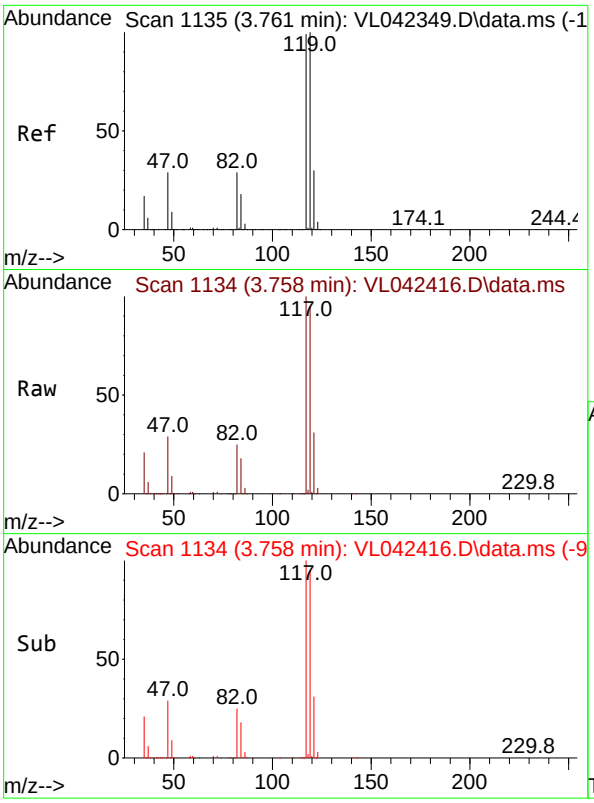



#34
2-Butanone
Concen: 8.834 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 43 Resp: 241047

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 22.1 | 18.2 | 27.2 |






#35
Carbon Tetrachloride
Concen: 9.783 ppbv
RT: 3.758 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion:117 Resp: 30547

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 95.4 | 80.5 | 120.7 |
| 121 | 31.3 | 24.2 | 36.2 |

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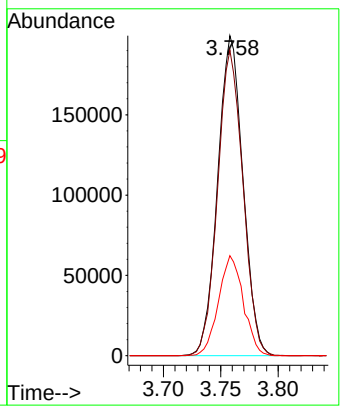
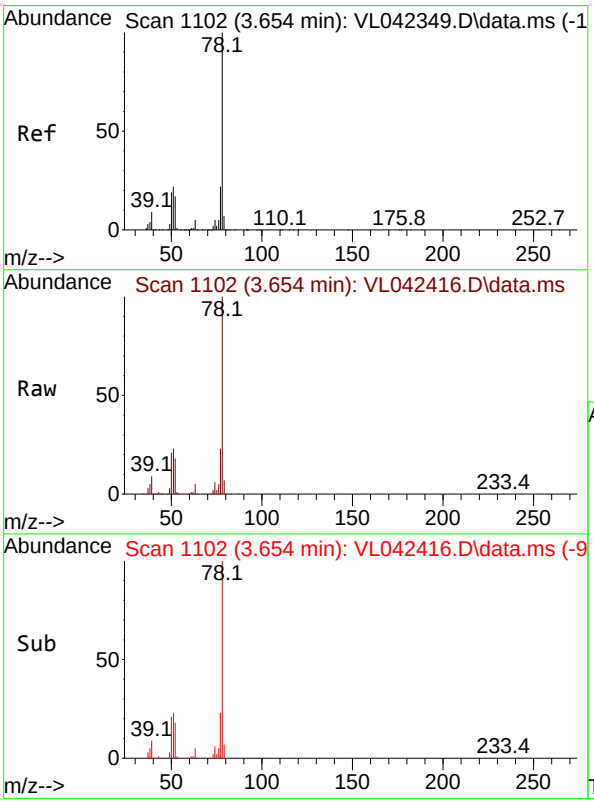
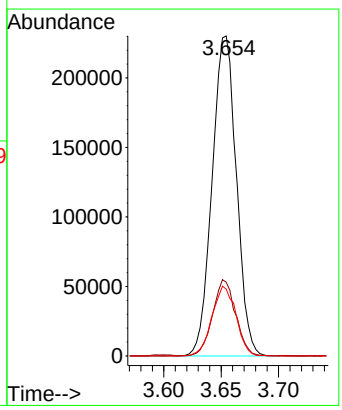


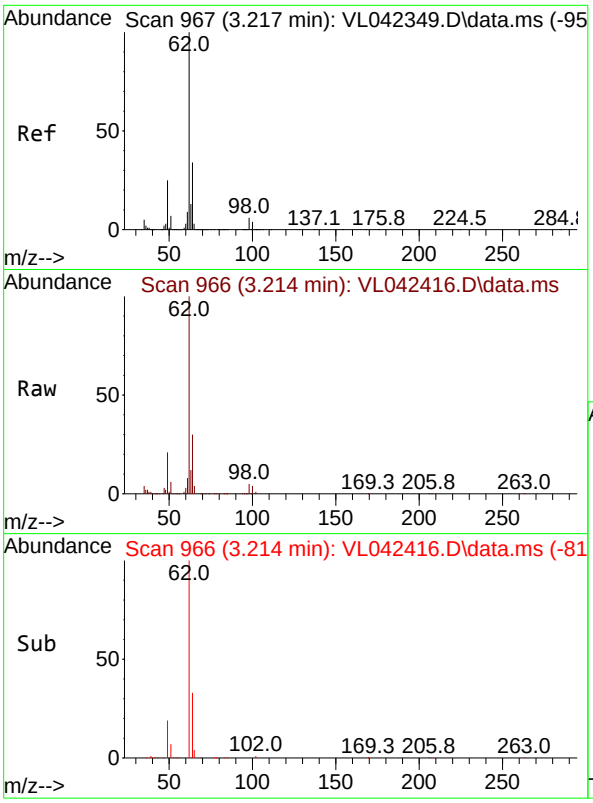




#36
Benzene
Concen: 9.102 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 78 Resp: 338736

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.0 | 17.4 | 26.0 |
| 50 | 20.9 | 15.5 | 23.3 |






#37
1,2-Dichloroethane
Concen: 10.564 ppbv
RT: 3.214 min Scan# 9
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 62 Resp: 23596

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 5.3 | 5.1 | 7.7 |

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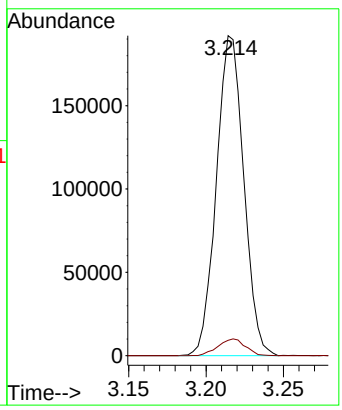
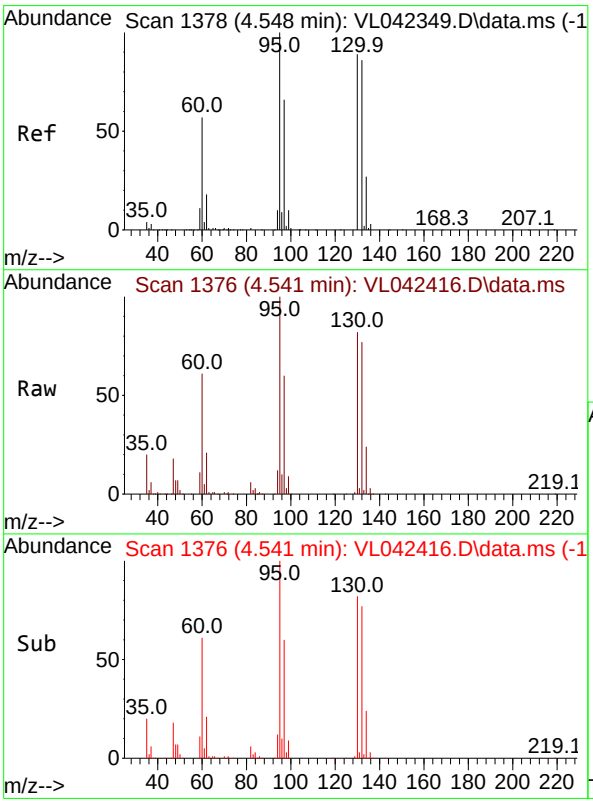
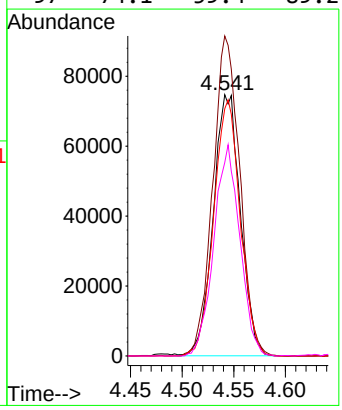


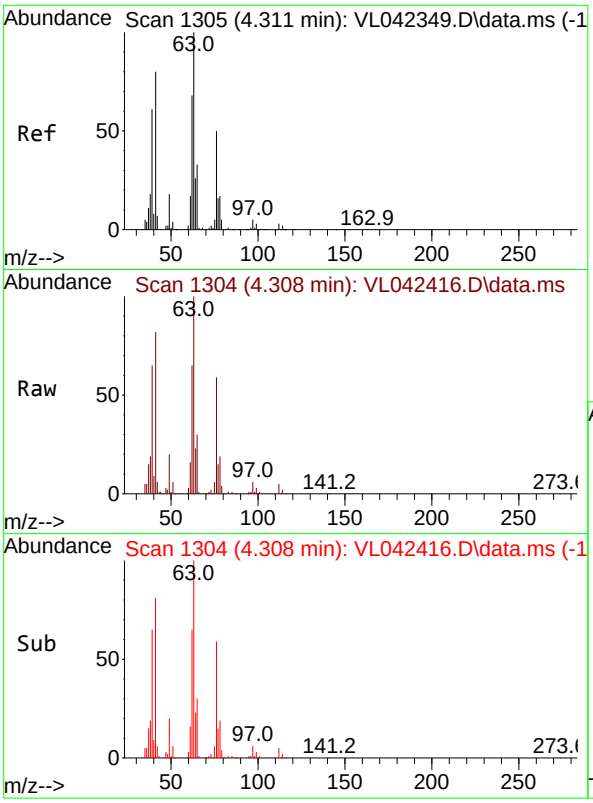




#38
Trichloroethene
Concen: 8.406 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. -0.007 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion:130 Resp: 136731

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 122.5 | 89.8 | 134.6 |
| 132 | 94.7 | 77.7 | 116.5 |
| 97 | 74.1 | 59.4 | 89.2 |

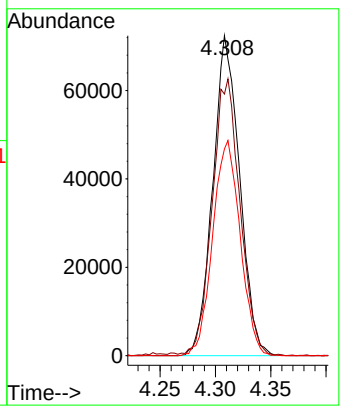





#39
1,2-Dichloropropane
Concen: 8.813 ppbv
RT: 4.308 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 63 Resp: 12221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 81.2 | 64.2 | 96.2 |
| 62 | 64.6 | 54.3 | 81.5 |

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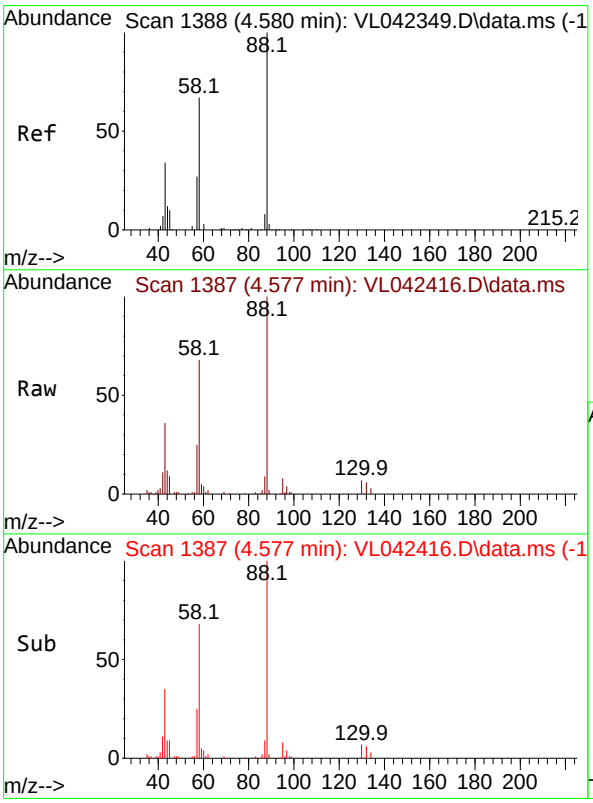
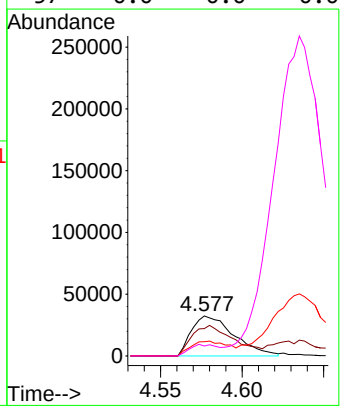
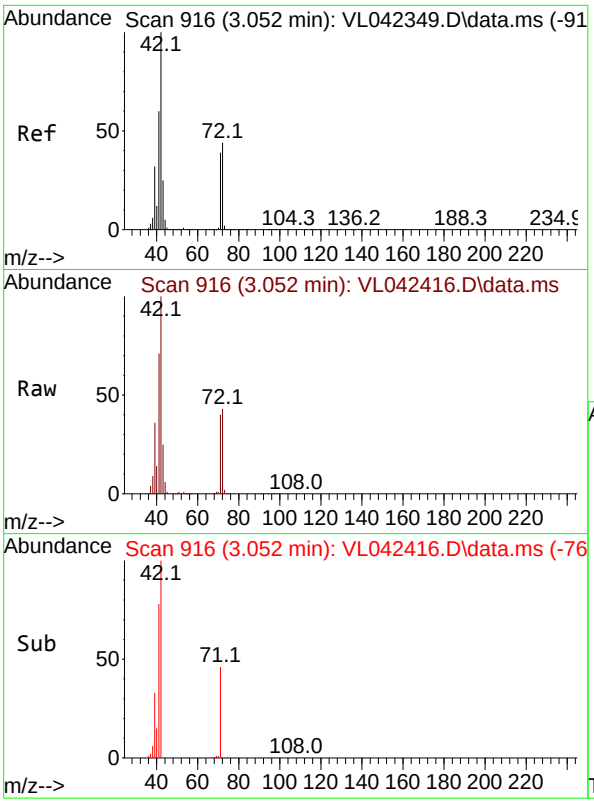



#40
1,4-Dioxane
Concen: 7.720 ppbv
RT: 4.577 min Scan# 1387
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 88 Resp: 58837

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 74.2 | 61.4 | 92.0 |
| 43 | 35.3 | 23.2 | 34.8# |
| 57 | 0.0 | 0.0 | 0.0 |






#41
Tetrahydrofuran
Concen: 8.363 ppbv
RT: 3.052 min Scan# 91
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 42 Resp: 13306

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 41.2 | 32.3 | 48.5 |
| 71 | 38.8 | 31.4 | 47.2 |

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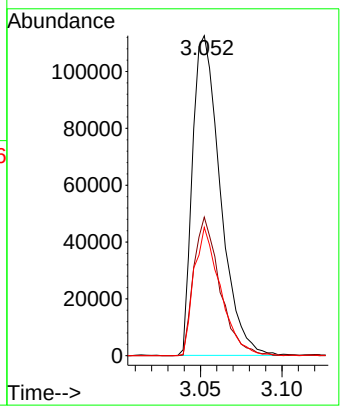
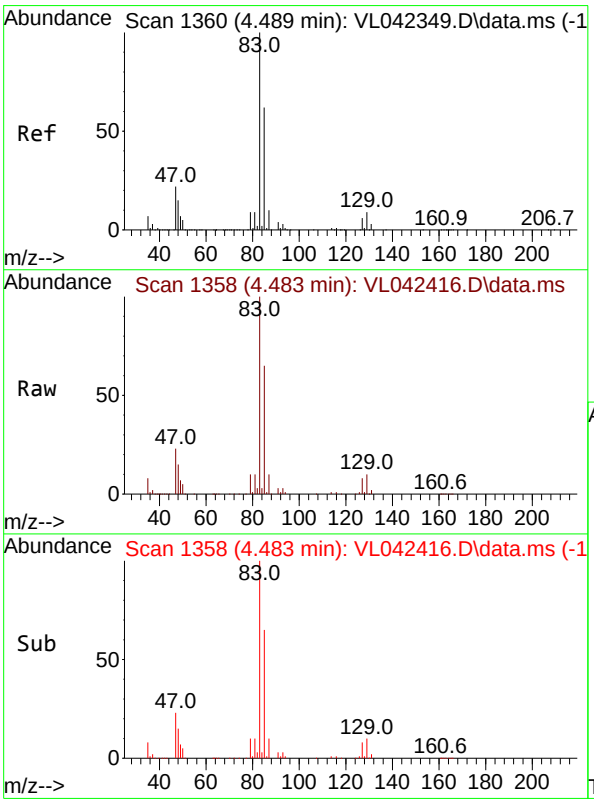
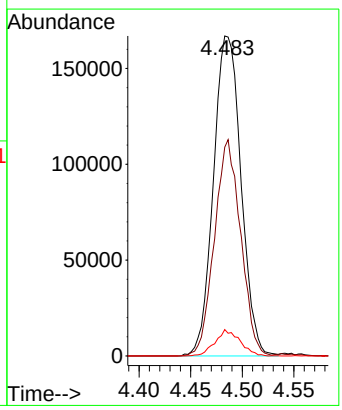


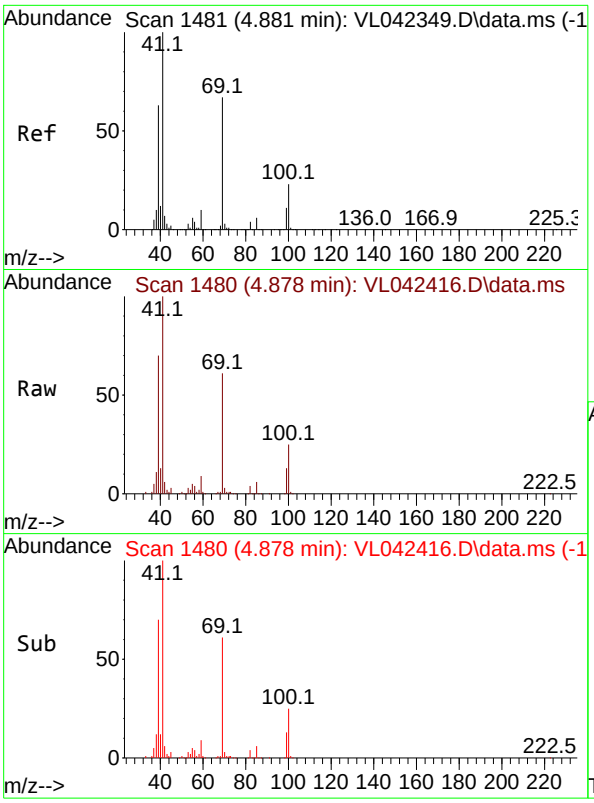




#42
Bromodichloromethane
Concen: 9.996 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. -0.006 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 83 Resp: 310726

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.3 | 49.7 | 74.5 |
| 127 | 8.3 | 5.1 | 7.7# |

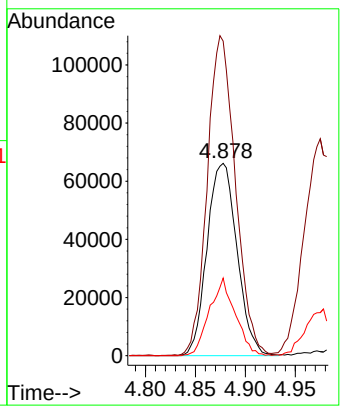





#43
Methyl Methacrylate
Concen: 8.230 ppbv
RT: 4.878 min Scan# 14
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 69 Resp: 13803

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 156.8 | 118.6 | 177.8 |
| 100 | 34.8 | 28.2 | 42.2 |

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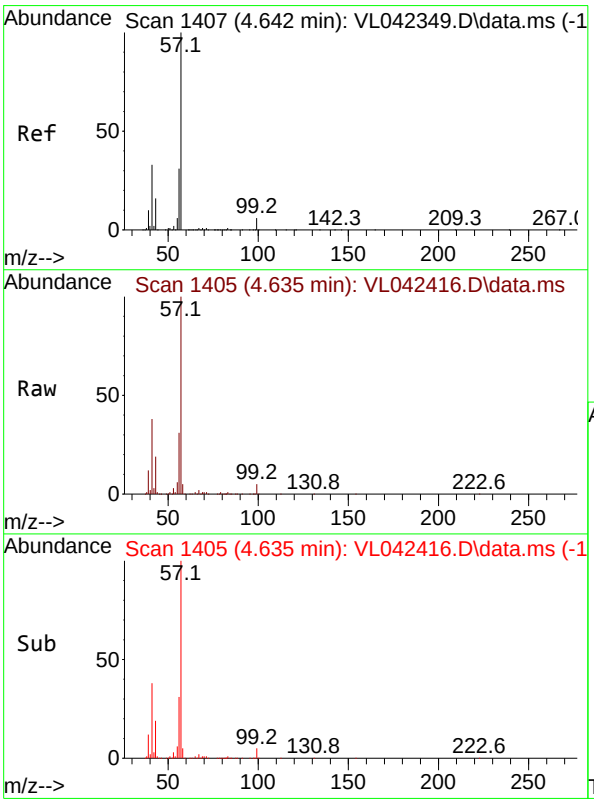
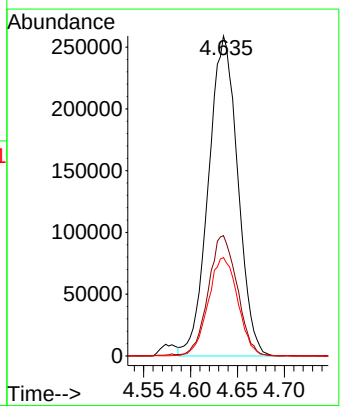
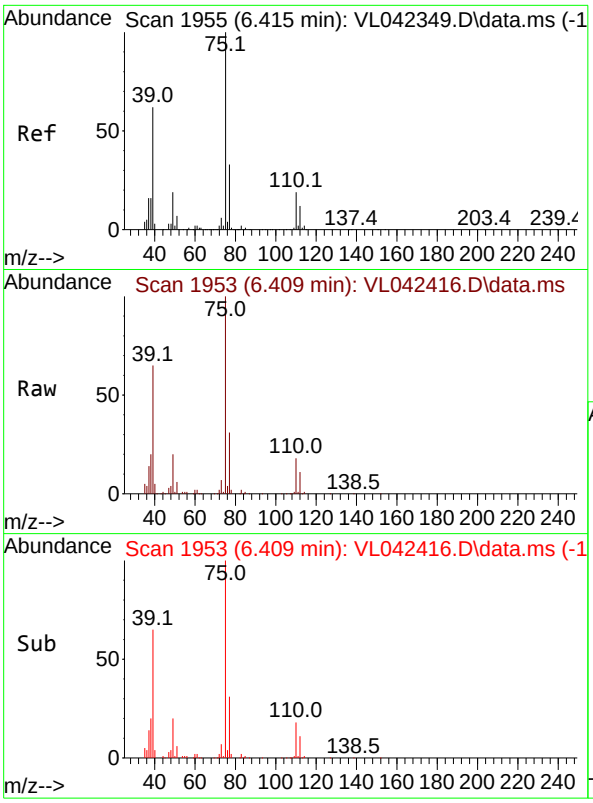



#44
2,2,4-Trimethylpentane
Concen: 8.750 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. -0.007 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 57 Resp: 562403

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 37.4 | 27.2 | 40.8 |
| 56 | 31.1 | 25.7 | 38.5 |

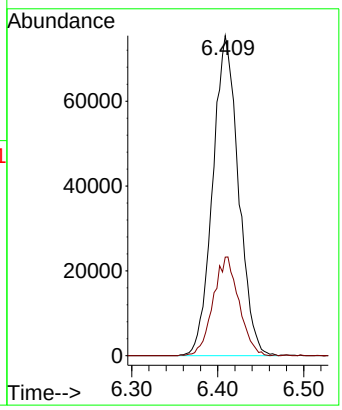





#45
t-1,3-Dichloropropene
Concen: 9.175 ppbv
RT: 6.409 min Scan# 1
Delta R.T. -0.006 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 75 Resp: 15719

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.8 | 27.0 | 40.6 |

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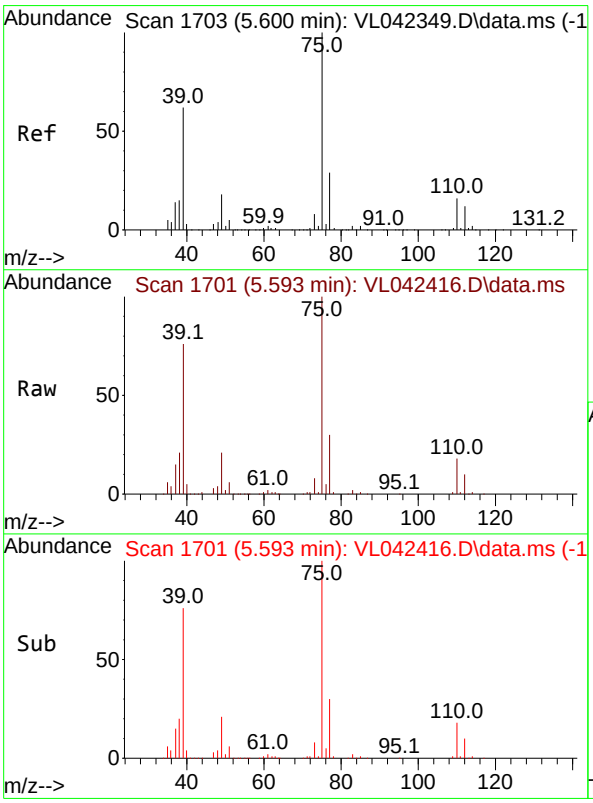
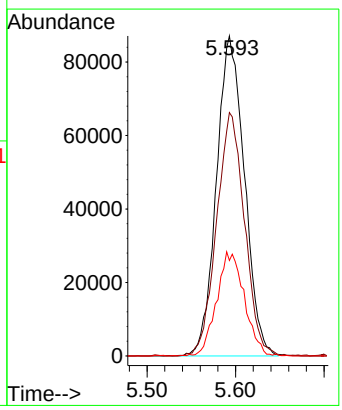
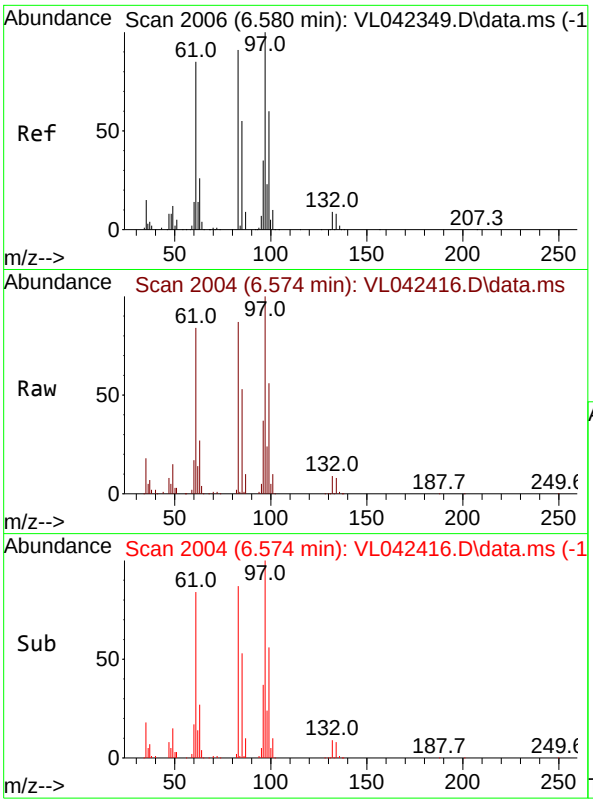



#46
cis-1,3-Dichloropropene
Concen: 9.117 ppbv
RT: 5.593 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 75 Resp: 191165

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 39 | 75.9 | 50.0 | 75.0# |
| 77 | 29.8 | 23.0 | 34.6 |

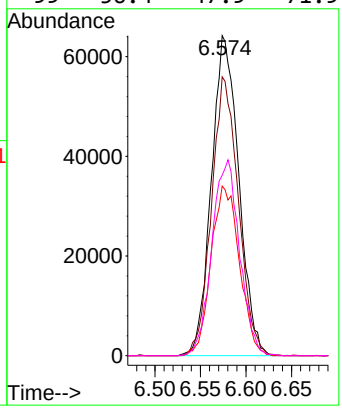





#47
1,1,2-Trichloroethane
Concen: 9.471 ppbv
RT: 6.574 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 97 Resp: 13382

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 87.2 | 72.8 | 109.2 |
| 85 | 53.0 | 44.2 | 66.4 |
| 99 | 56.4 | 47.9 | 71.9 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

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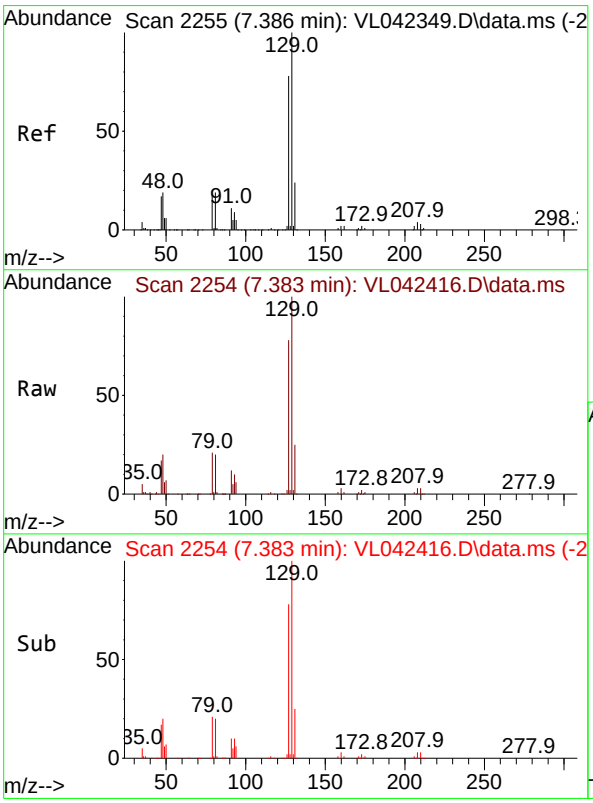
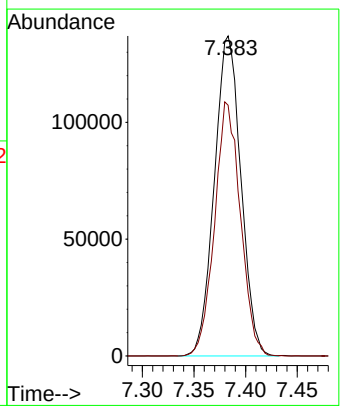
Supervised By :Mahesh Dadoda 04/30/2025

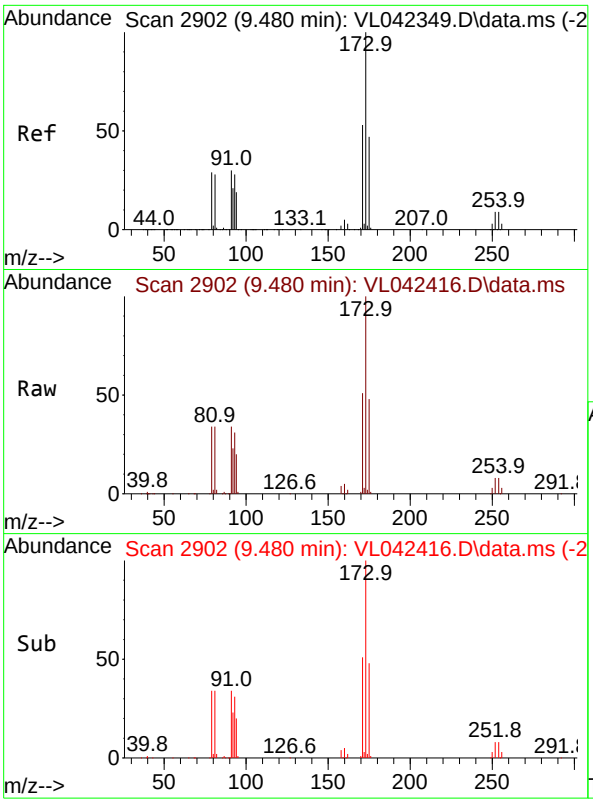



#48
Dibromochloromethane
Concen: 9.832 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion:129 Resp: 245439

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.0 | 39.1 | 117.3 |

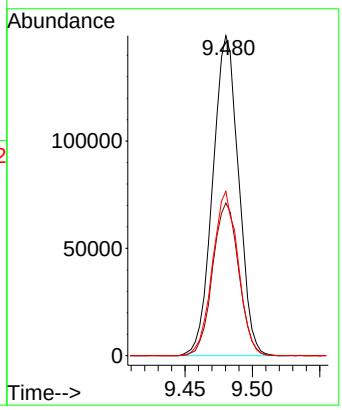





#49
Bromoform
Concen: 9.117 ppbv
RT: 9.480 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion:173 Resp: 19899

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.2 | 38.2 | 57.2 |
| 171 | 51.0 | 40.9 | 61.3 |




**Instrument :**
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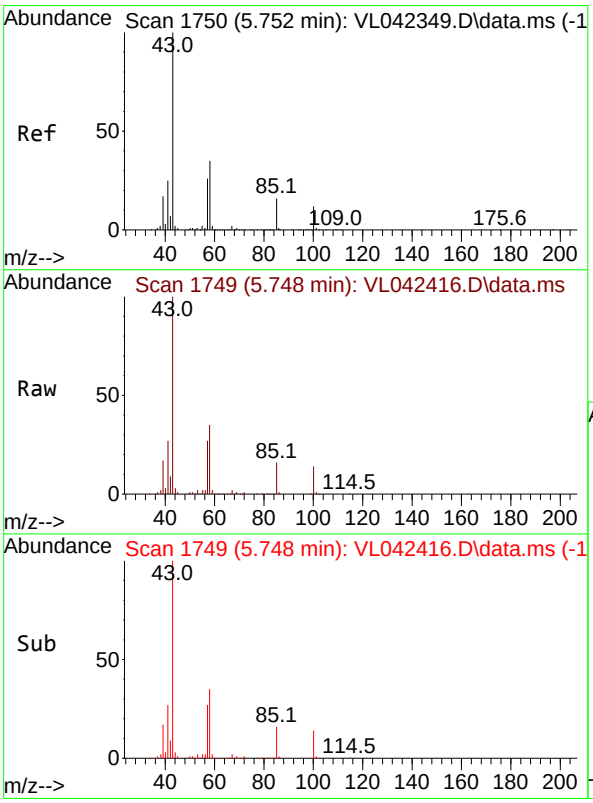
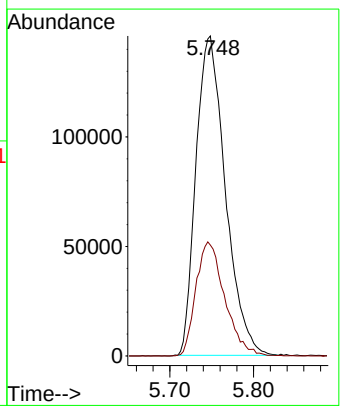
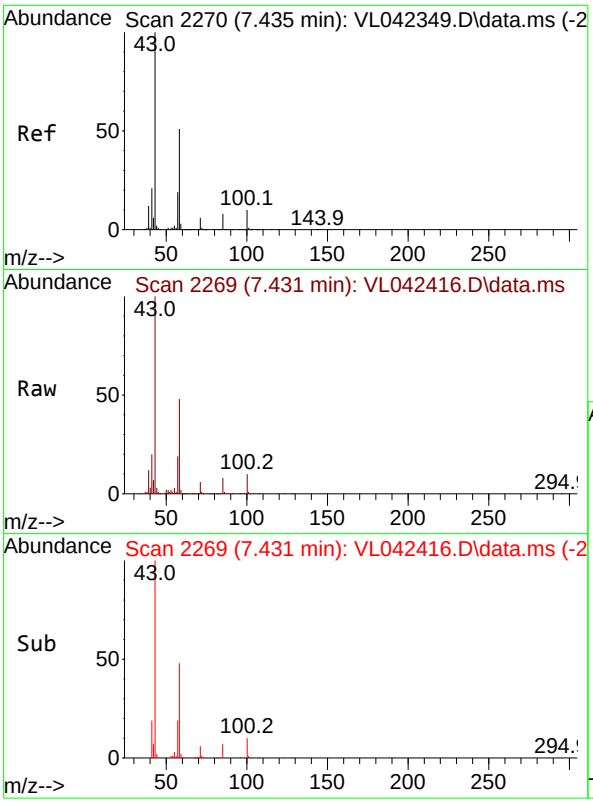



#50
4-Methyl-2-Pentanone
Concen: 7.854 ppbv
RT: 5.748 min Scan# 1749
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 43 Resp: 356129

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 35.1 | 28.6 | 43.0 |

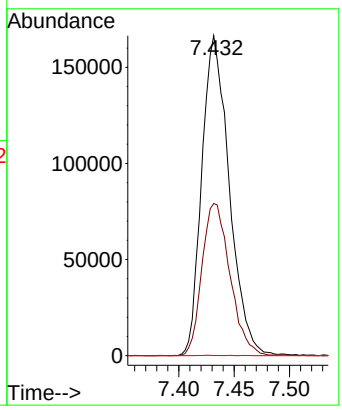





#51
2-Hexanone
Concen: 7.058 ppbv
RT: 7.431 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 43 Resp: 28704

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 48.8 | 40.2 | 60.4 |
| 98 | 0.1 | 0.1 | 0.1 |




**Instrument :**
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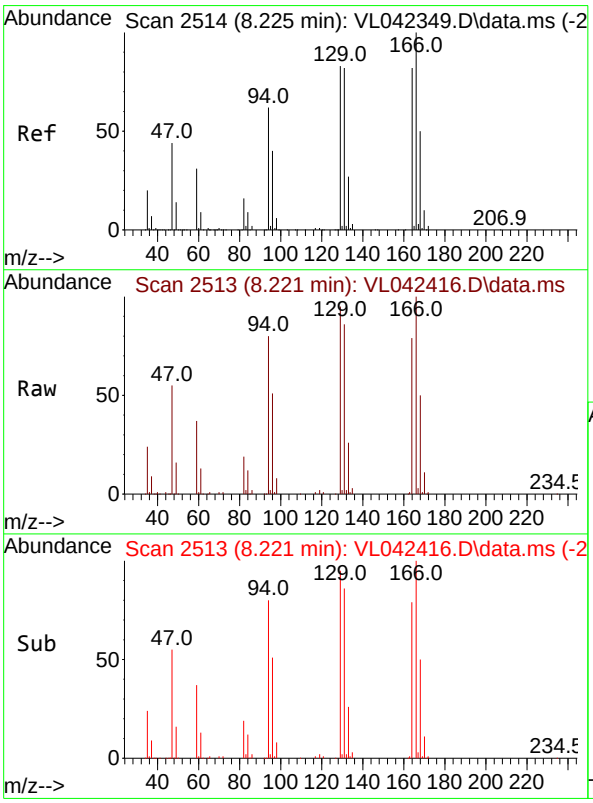
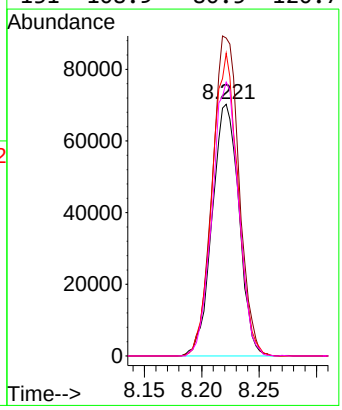
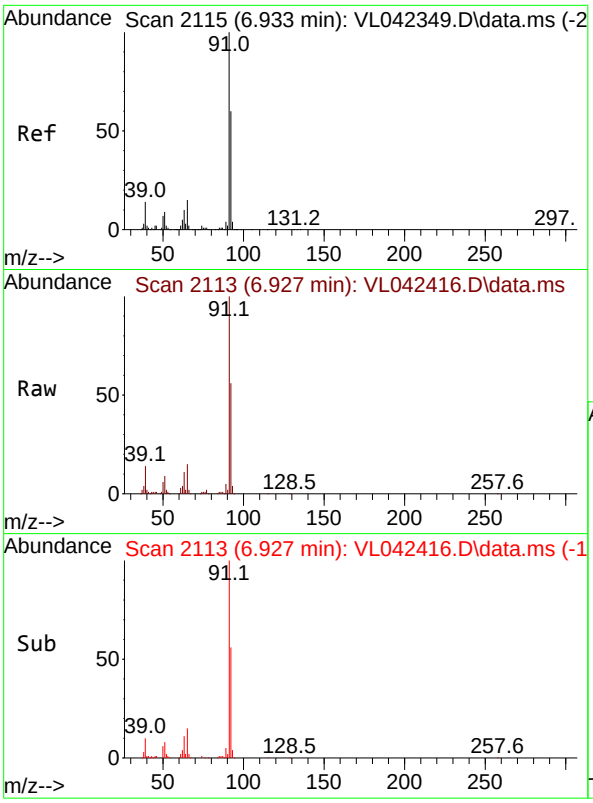



#52
Tetrachloroethene
Concen: 7.928 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion:164 Resp: 114038

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 126.3 | 98.2 | 147.2 |
| 129 | 120.3 | 81.8 | 122.8 |
| 131 | 108.9 | 80.5 | 120.7 |

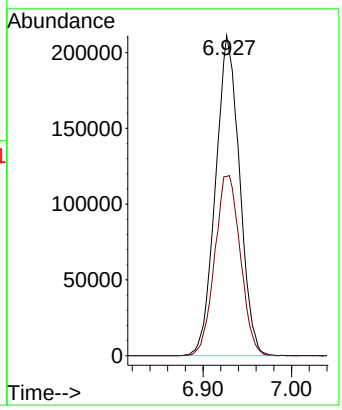





#53
Toluene
Concen: 8.916 ppbv
RT: 6.927 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 91 Resp: 39816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 60.2 | 48.2 | 72.4 |




**Instrument :**
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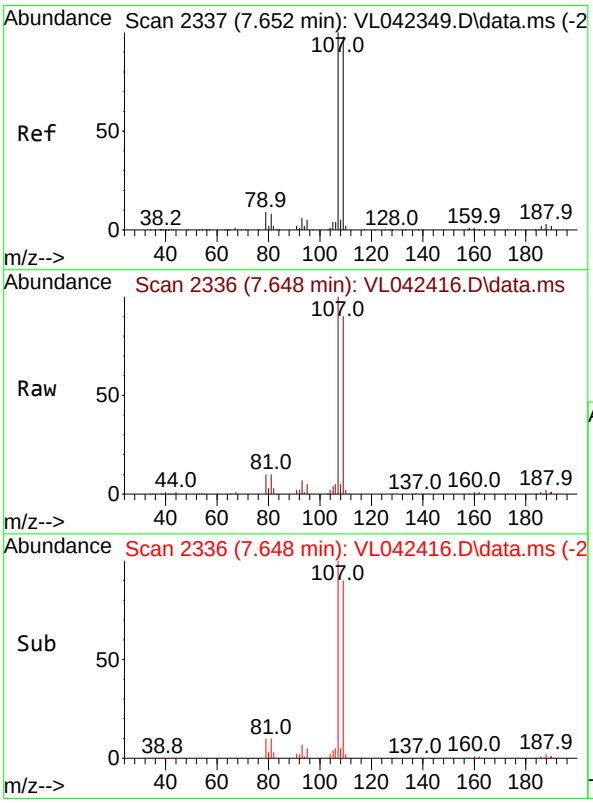
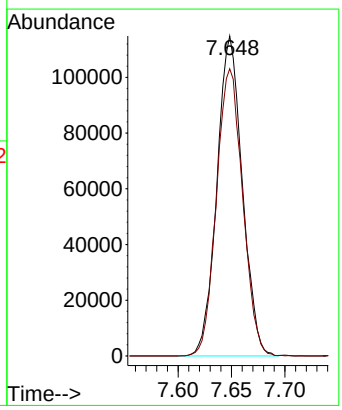
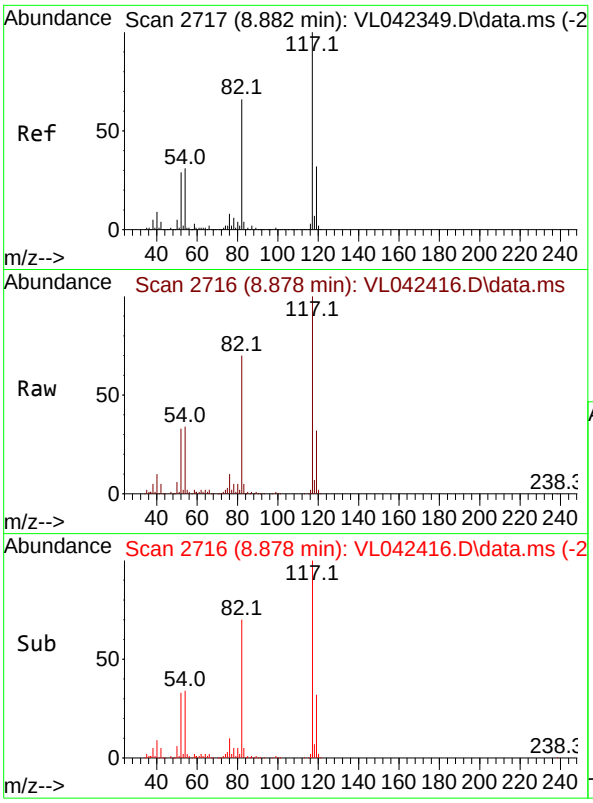



#54
1,2-Dibromoethane
Concen: 9.378 ppbv
RT: 7.648 min Scan# 2336
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion:107 Resp: 189639

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 89.8 | 78.2 | 117.4 |

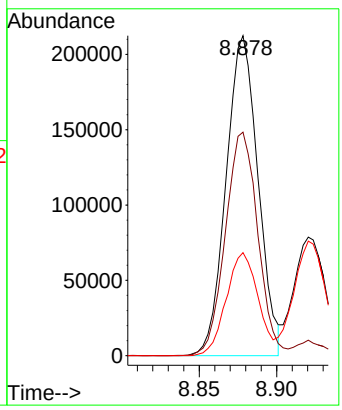





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion:117 Resp: 30524

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 75.0 | 57.8 | 86.6 |
| 119 | 31.9 | 25.2 | 37.8 |




**Instrument :**
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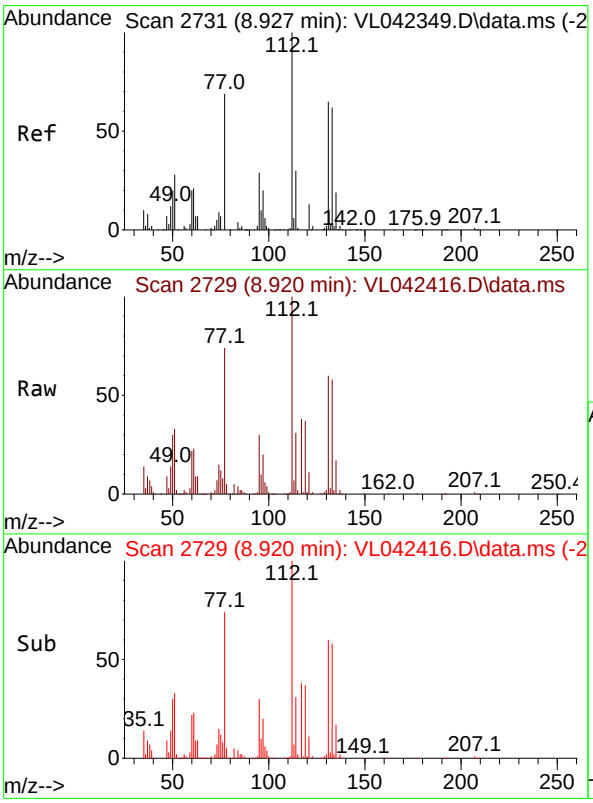
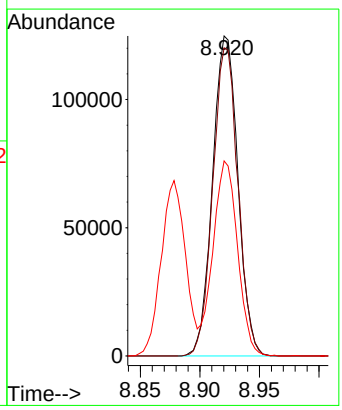
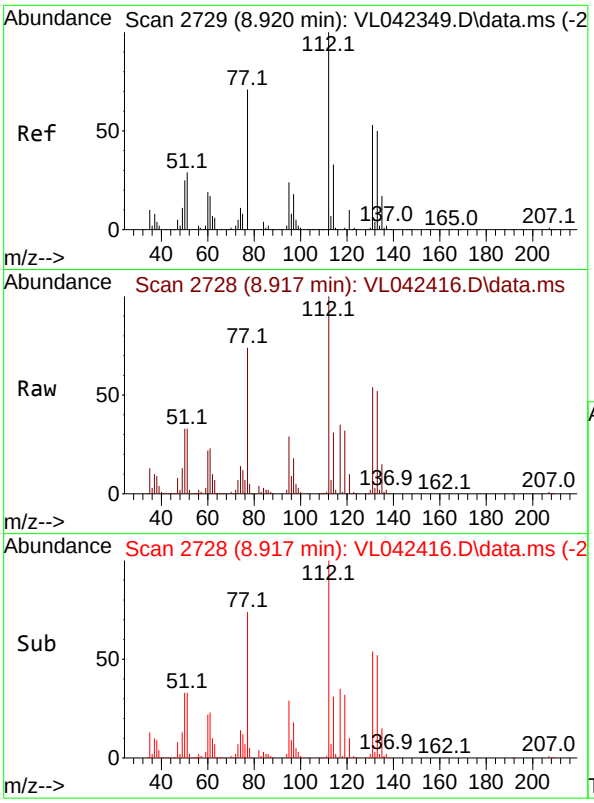



#56
1,1,1,2-Tetrachloroethane
Concen: 9.969 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. -0.007 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion:131 Resp: 184161

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.8 | 78.3 | 117.5 |
| 119 | 58.3 | 48.7 | 73.1 |

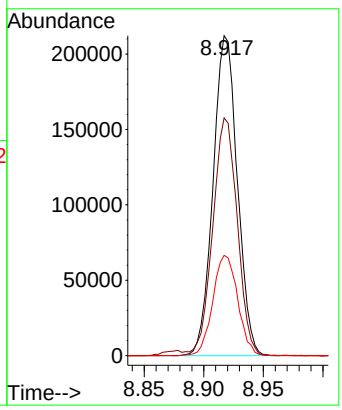





#57
Chlorobenzene
Concen: 9.471 ppbv
RT: 8.917 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion:112 Resp: 30067

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 74.3 | 57.8 | 86.6 |
| 114 | 31.4 | 29.3 | 35.9 |

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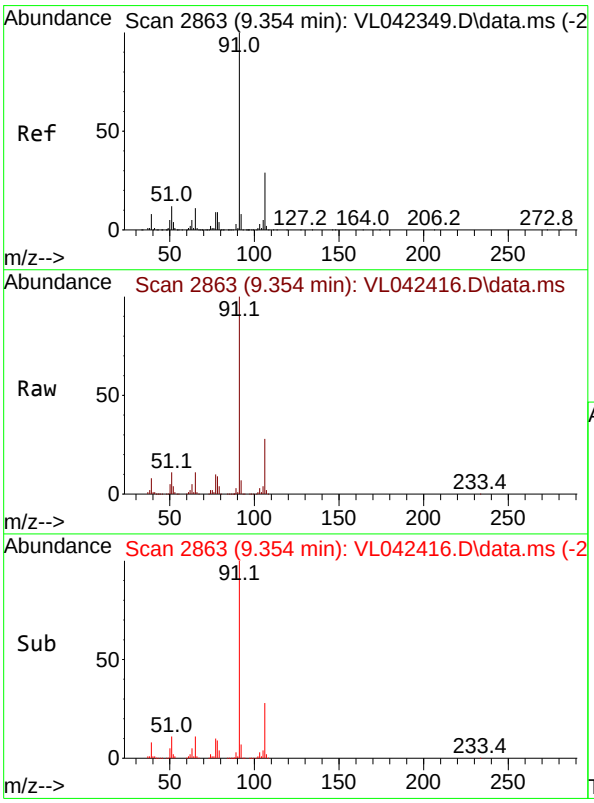
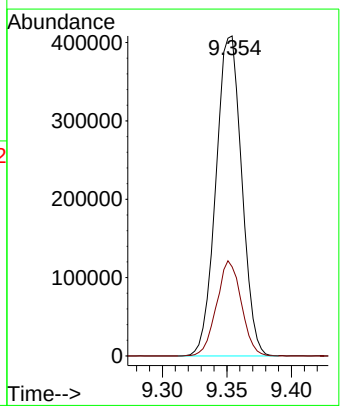
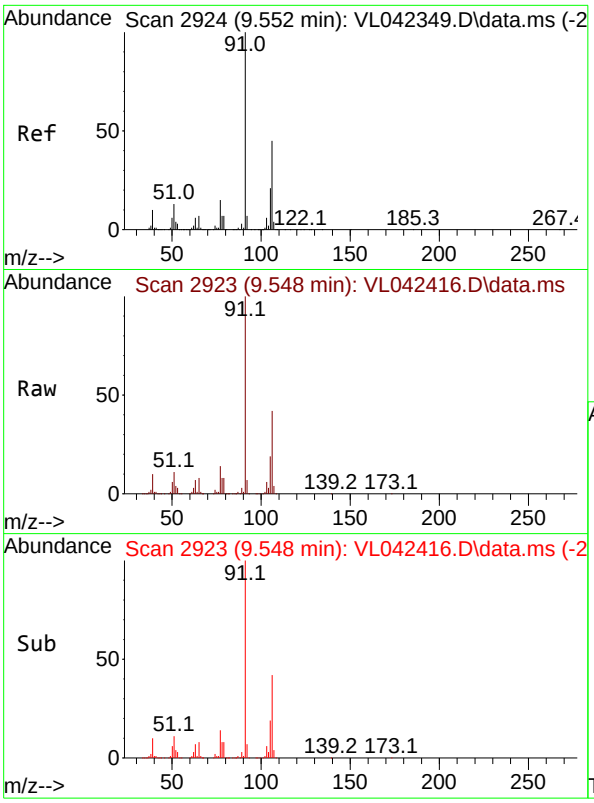



#58
Ethyl Benzene
Concen: 9.394 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 91 Resp: 568129

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 27.8 | 23.0 | 34.4 |

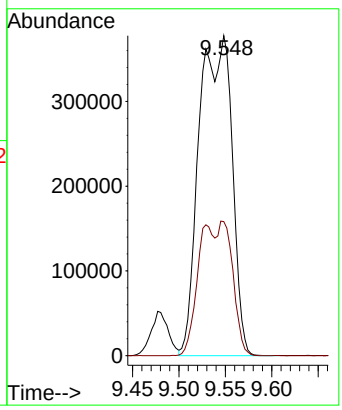





#59
m/p-Xylene
Concen: 19.073 ppbv m
RT: 9.548 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 91 Resp: 92920

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 42.7 | 35.4 | 53.2 |

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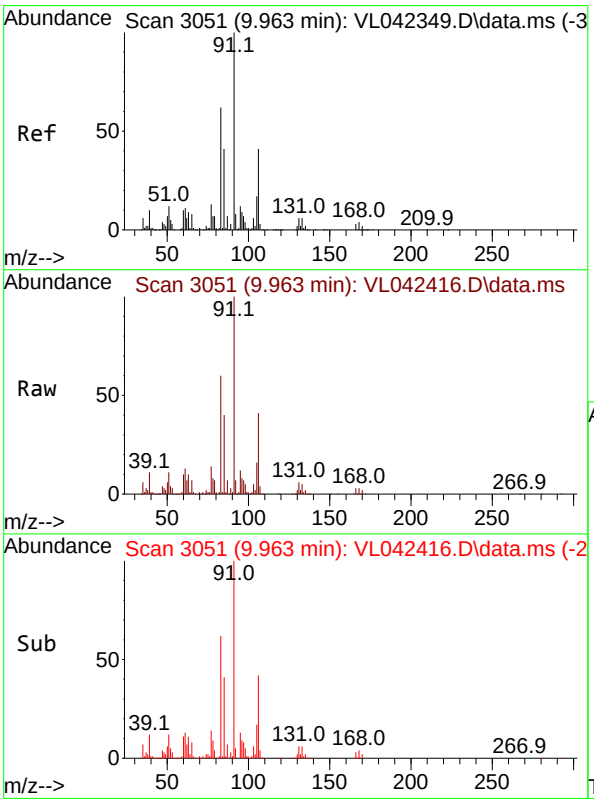
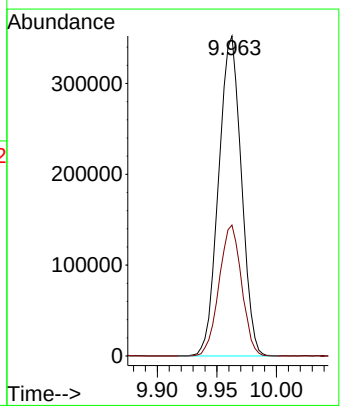
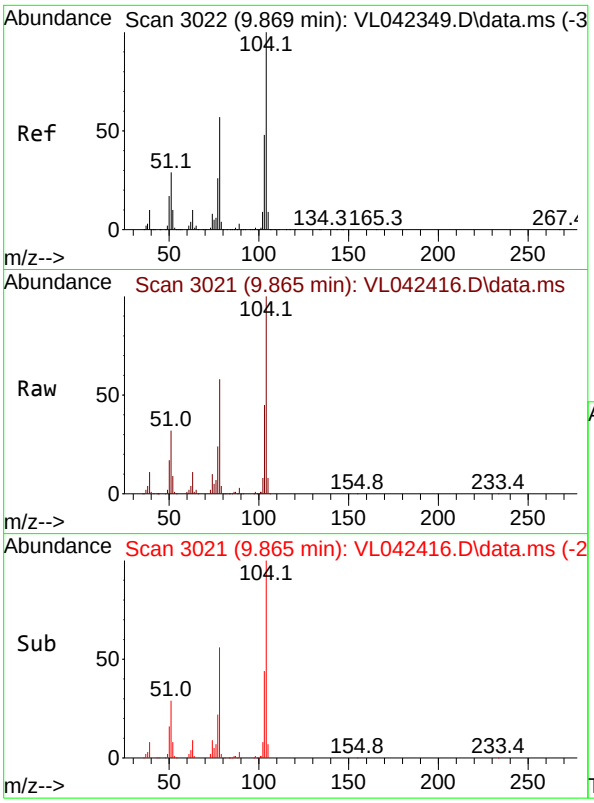



#60
o-Xylene
Concen: 9.507 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 91 Resp: 466411

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 40.6 | 21.1 | 63.4 |

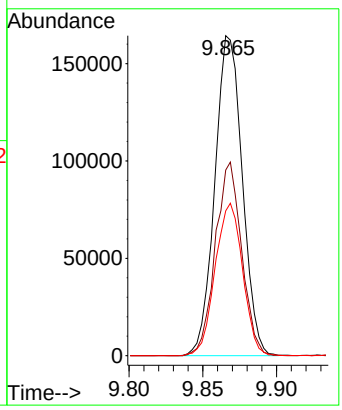





#61
Styrene
Concen: 9.101 ppbv
RT: 9.865 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion:104 Resp: 21311

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 57.9 | 44.6 | 66.8 |
| 103 | 47.6 | 37.4 | 56.0 |




**Instrument :**
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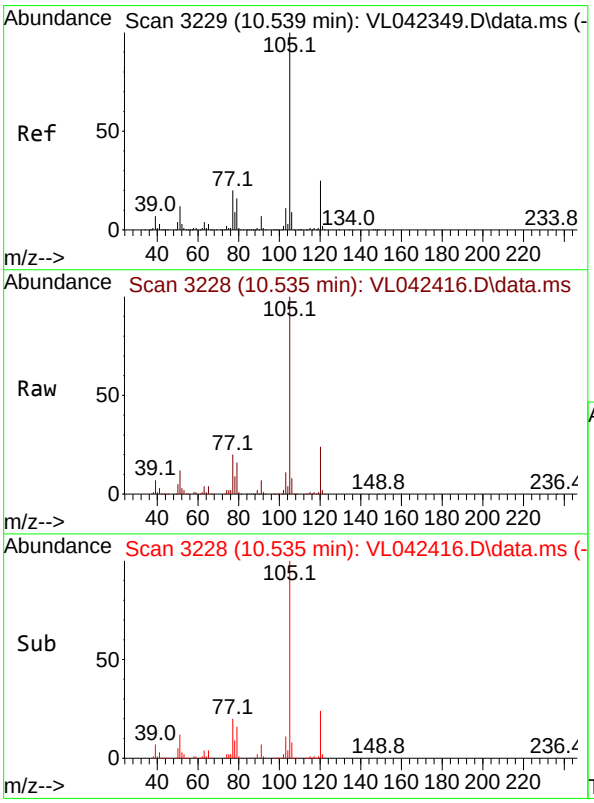
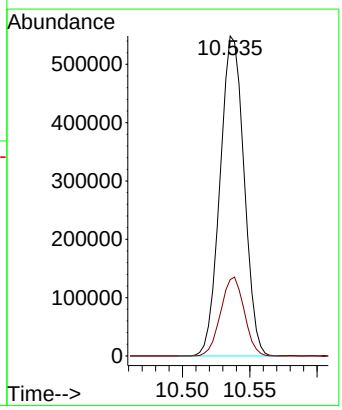
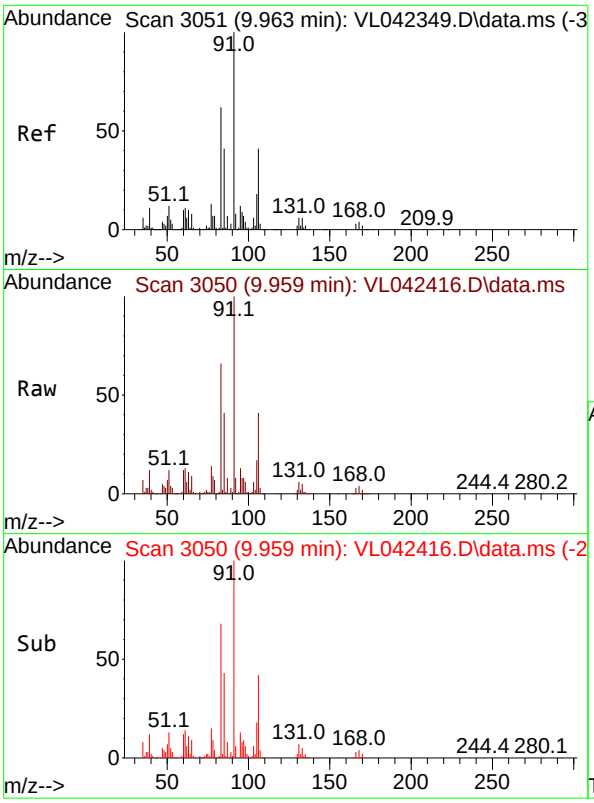



#62
Isopropylbenzene
Concen: 9.452 ppbv
RT: 10.535 min Scan# 3228
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion:105 Resp: 680837

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 24.1 | 19.8 | 29.8 |

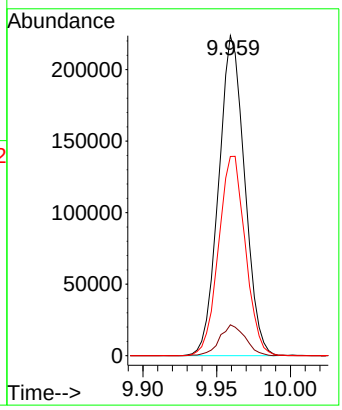





#63
1,1,2,2-Tetrachloroethane
Concen: 8.639 ppbv
RT: 9.959 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 83 Resp: 27465

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.6 | 4.5 | 13.7 |
| 85 | 64.2 | 32.4 | 97.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

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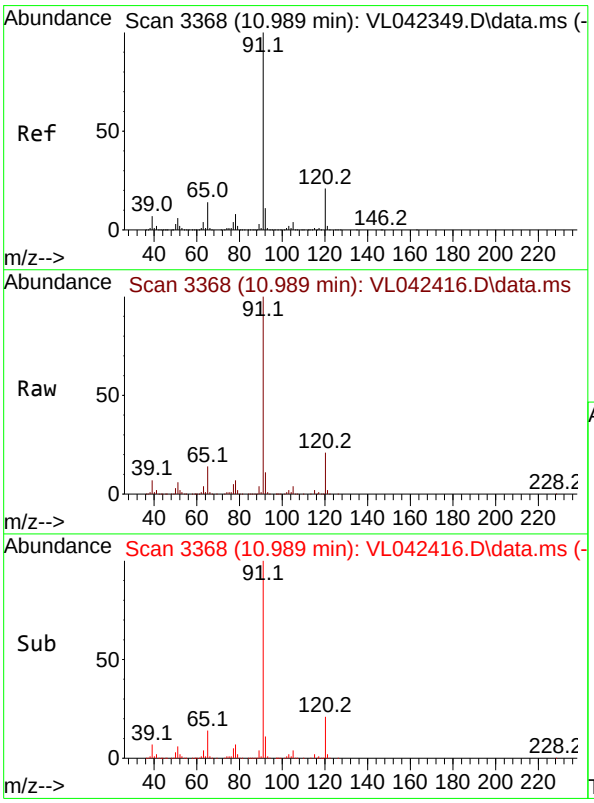
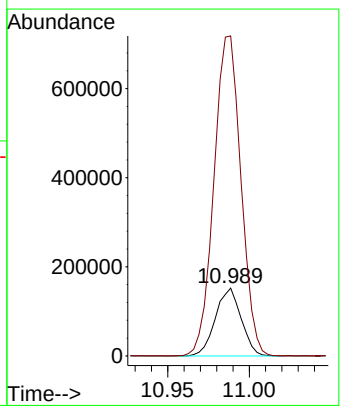
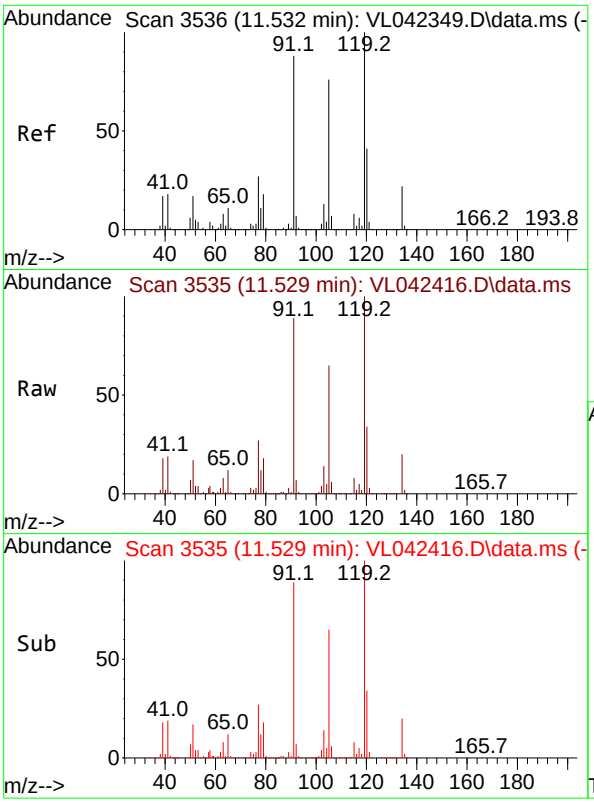



#64
n-propylbenzene
Concen: 9.223 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion:120 Resp: 166984

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 495.0 | 392.4 | 588.6 |

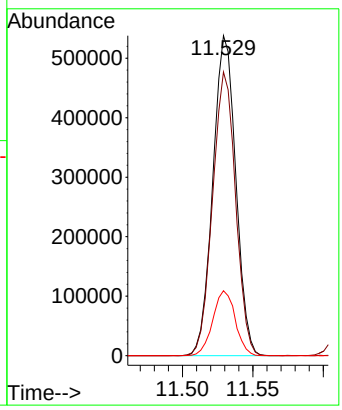





#65
tert-Butylbenzene
Concen: 9.219 ppbv
RT: 11.529 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion:119 Resp: 61030

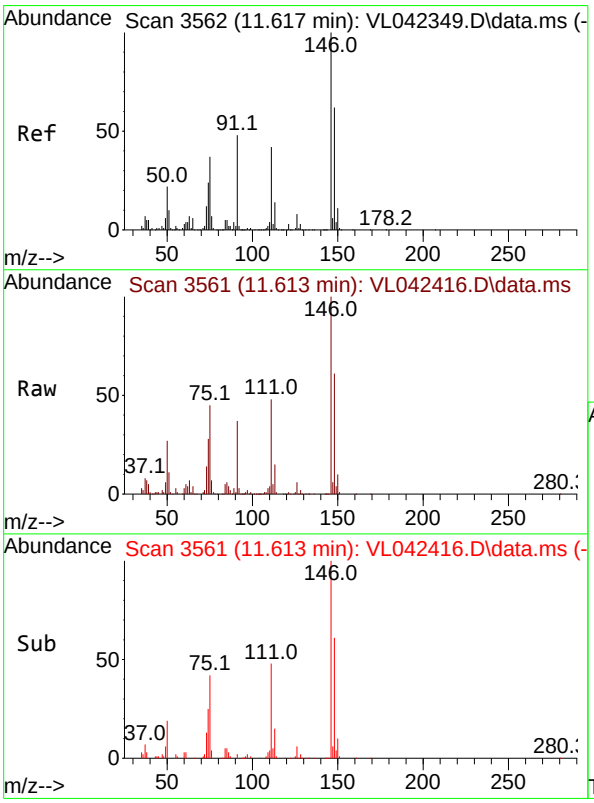
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 88.8 | 74.6 | 111.8 |
| 134 | 19.9 | 18.8 | 28.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
**APPROVED**

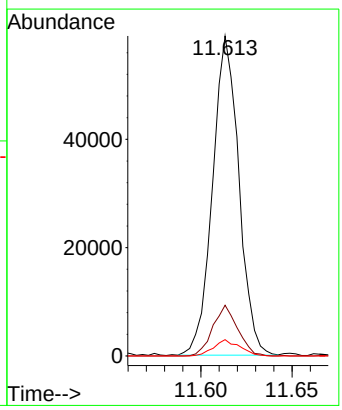
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

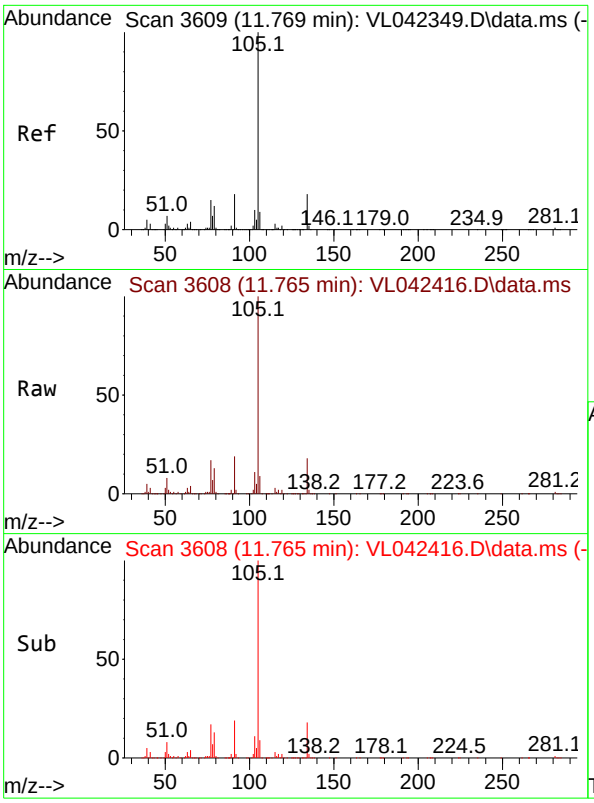



#66
Benzyl Chloride
Concen: 8.136 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 91 Resp: 59187

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 15.1 | 11.8 | 17.6 |
| 128 | 5.1 | 4.5 | 6.7 |

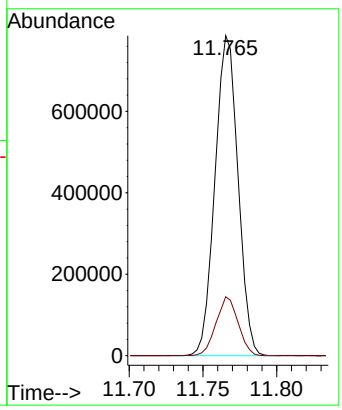





#67
sec-Butylbenzene
Concen: 9.276 ppbv
RT: 11.765 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion:105 Resp: 85416

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 17.7 | 14.6 | 21.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
**APPROVED**

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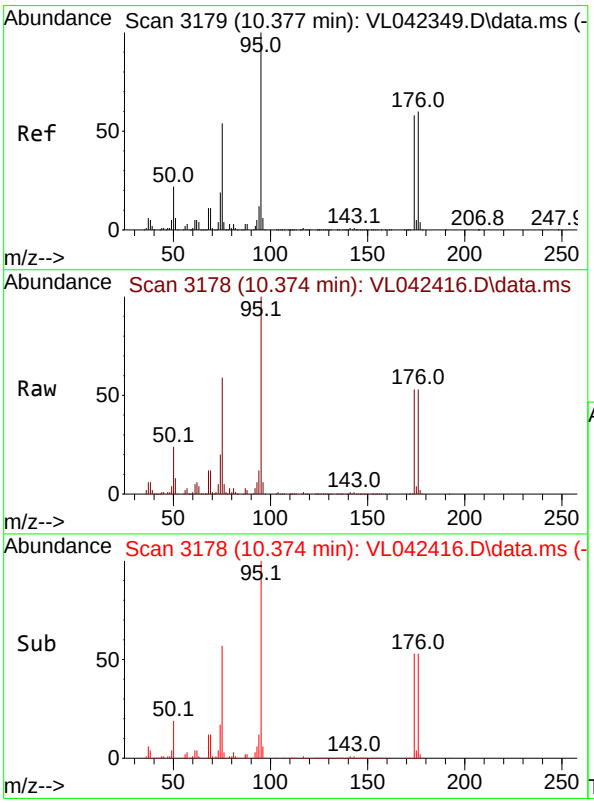
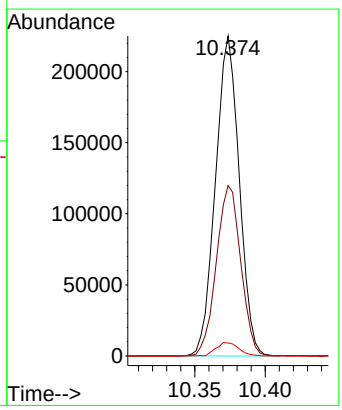
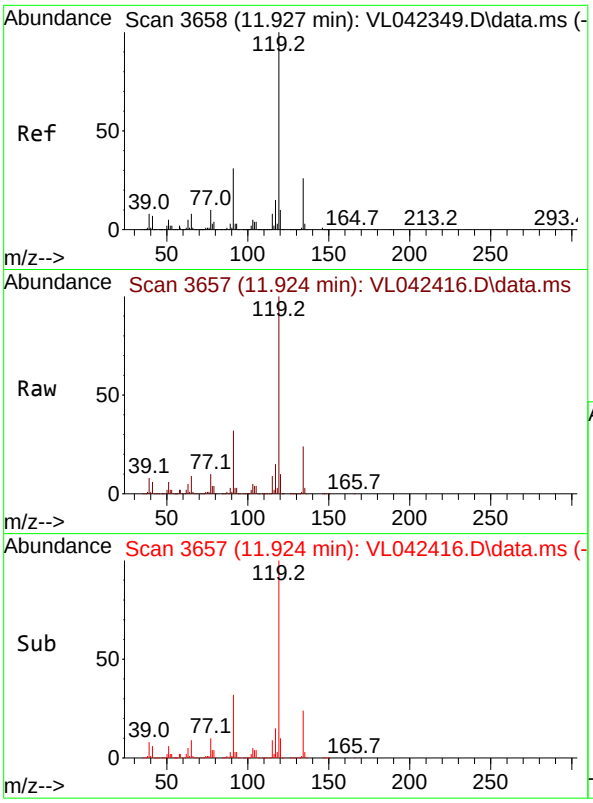



#68
1-Bromo-4-Fluorobenzene
Concen: 10.533 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 95 Resp: 264197

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 54.7 | 48.5 | 72.7 |
| 175 | 4.0 | 3.7 | 5.5 |

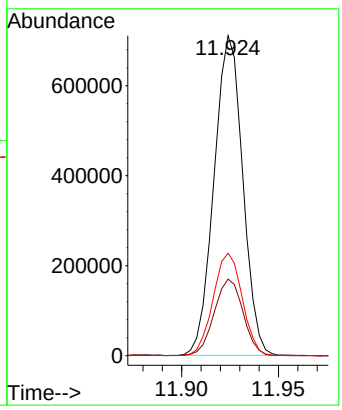





#69
p-Isopropyltoluene
Concen: 9.155 ppbv
RT: 11.924 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion:119 Resp: 73236

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 24.2 | 20.0 | 30.0 |
| 91 | 32.7 | 24.4 | 36.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
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Reviewed By :Semsettin Yesilyurt 04/29/2025
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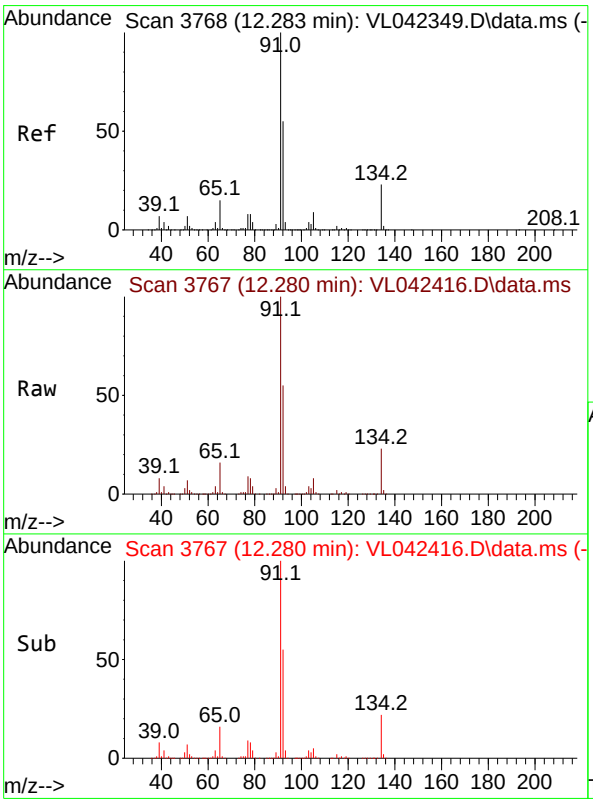
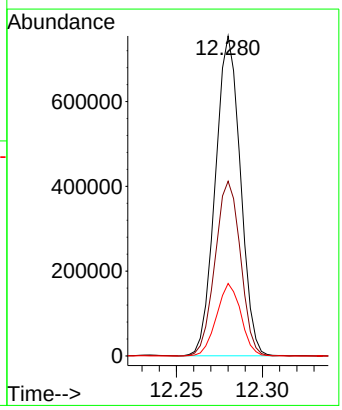
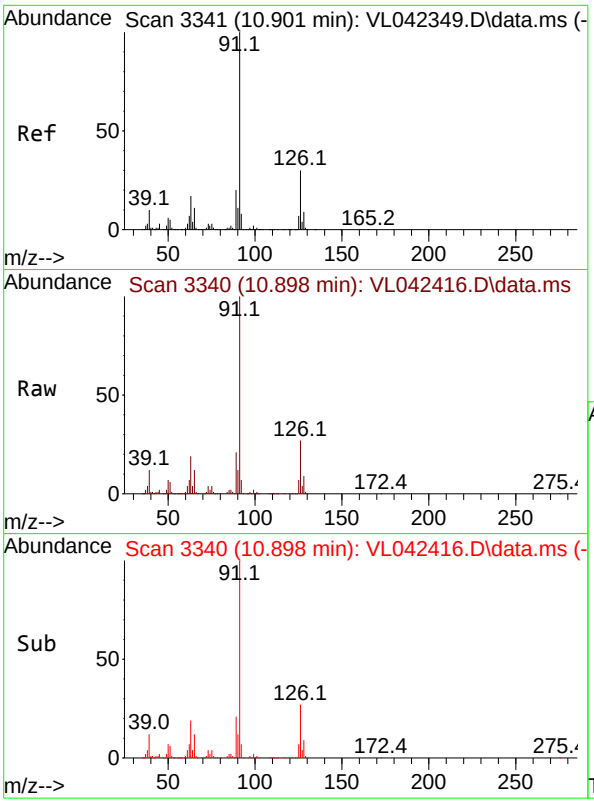



#70
n-Butylbenzene
Concen: 9.188 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 91 Resp: 765539

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 55.5 | 44.2 | 66.4 |
| 134 | 22.1 | 18.2 | 27.4 |

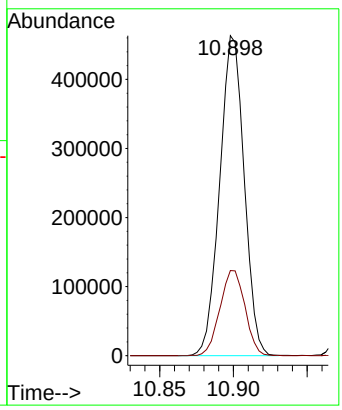





#71
2-Chlorotoluene
Concen: 9.467 ppbv
RT: 10.898 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 91 Resp: 53483

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 27.2 | 11.4 | 45.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
**APPROVED**

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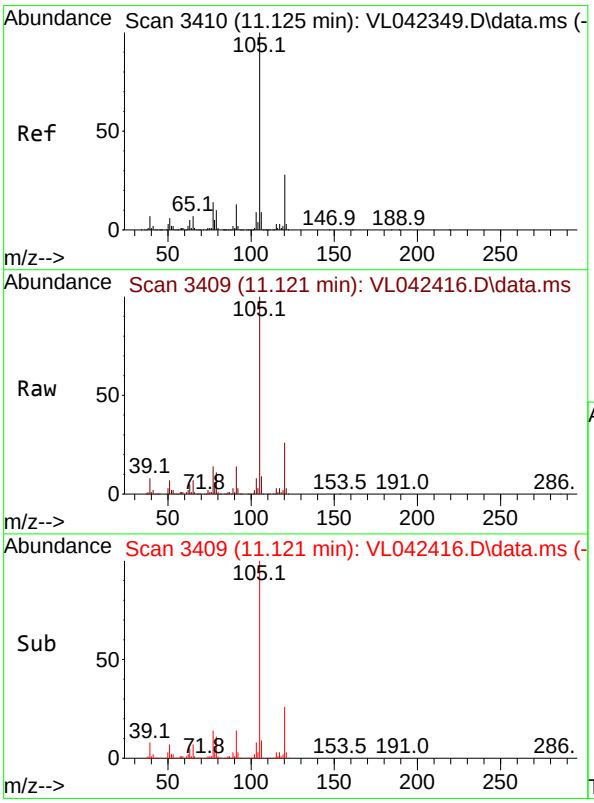
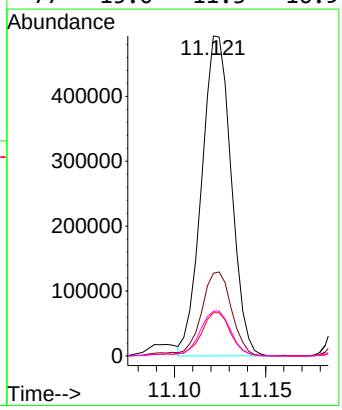
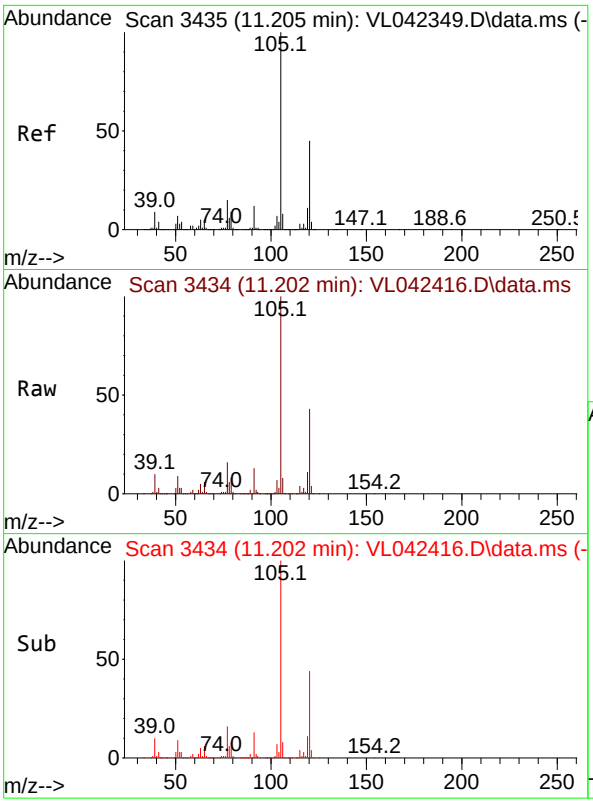



#72
4-Ethyltoluene
Concen: 9.280 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion:105 Resp: 556591

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 27.4 | 23.2 | 34.8 |
| 91 | 13.9 | 10.4 | 15.6 |
| 77 | 15.0 | 11.3 | 16.9 |

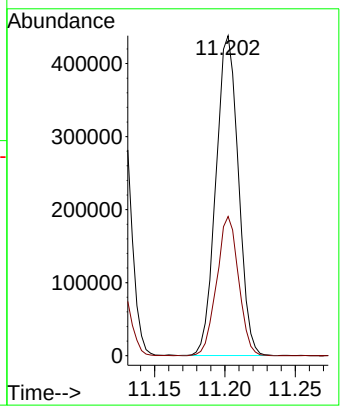





#73
1,3,5-Trimethylbenzene
Concen: 9.201 ppbv
RT: 11.202 min Scan# 34
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion:105 Resp: 48722

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 43.5 | 35.6 | 53.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
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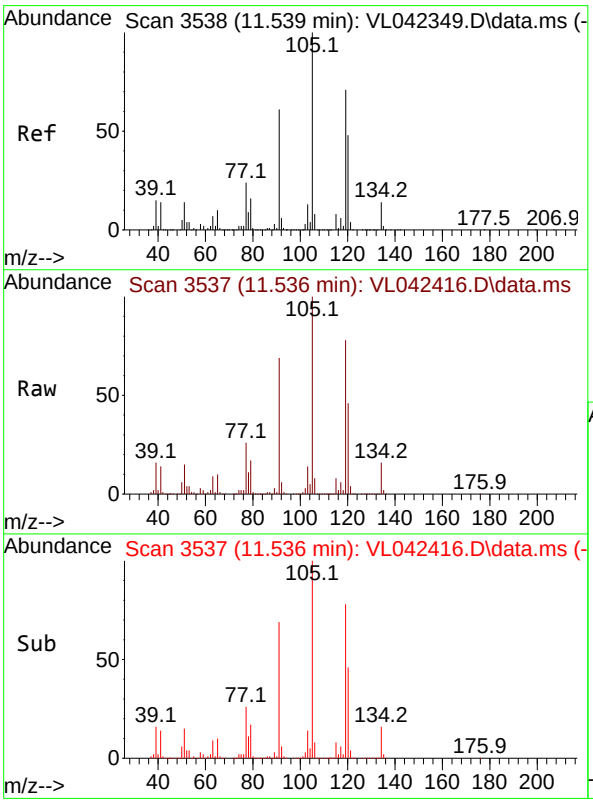
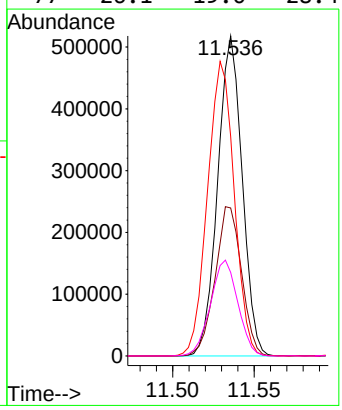
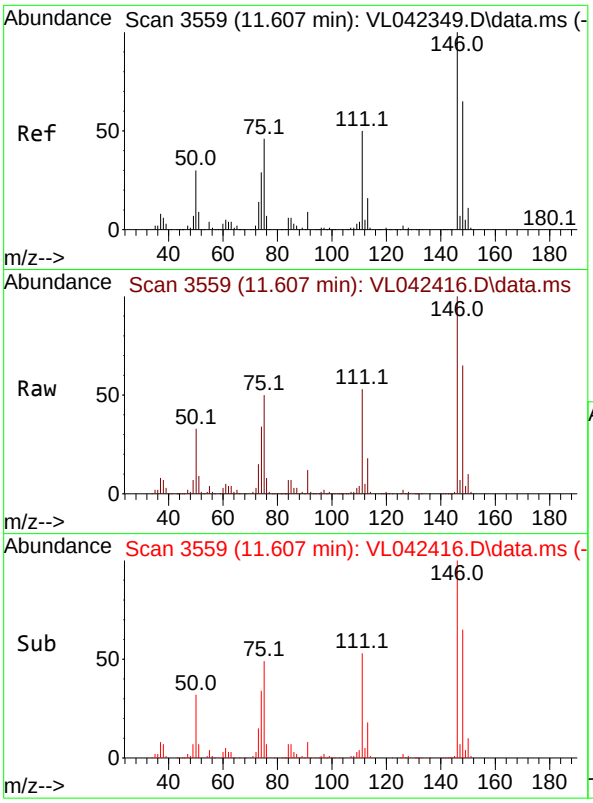



#74
1,2,4-Trimethylbenzene
Concen: 8.759 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion:105 Resp: 541720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.2 | 38.1 | 57.1 |
| 91 | 68.6 | 48.8 | 73.2 |
| 77 | 26.1 | 19.0 | 28.4 |

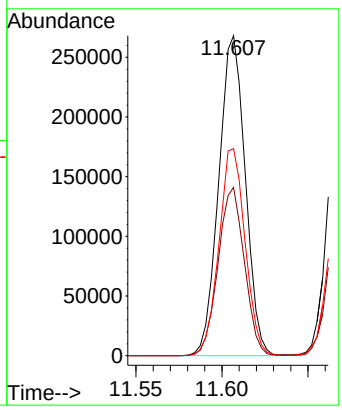





#75
1,3-Dichlorobenzene
Concen: 8.936 ppbv
RT: 11.607 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion:146 Resp: 28728

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 52.1 | 24.3 | 72.8 |
| 148 | 63.9 | 31.6 | 94.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

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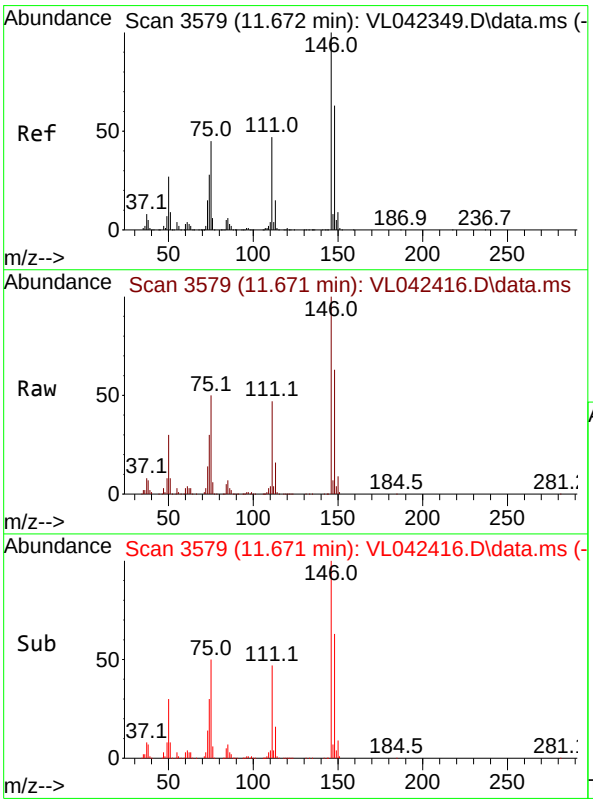
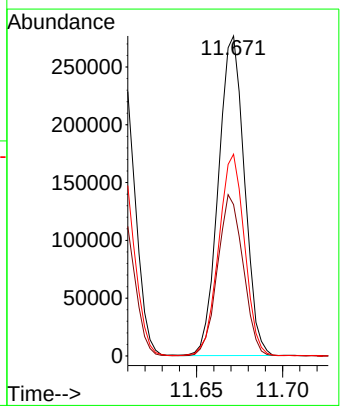
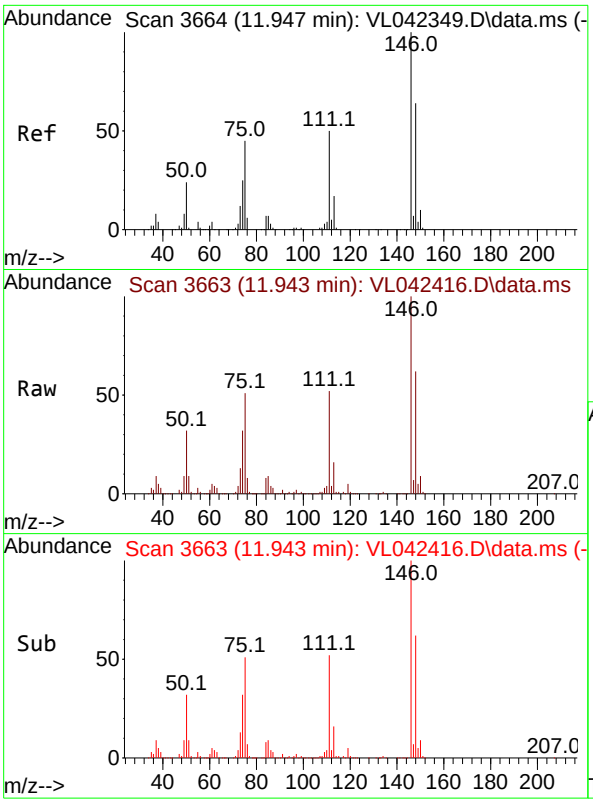



#76
1,4-Dichlorobenzene
Concen: 8.991 ppbv
RT: 11.671 min Scan# 3579
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion:146 Resp: 290512

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 49.8 | 24.2 | 72.6 |
| 148 | 63.2 | 32.1 | 96.5 |

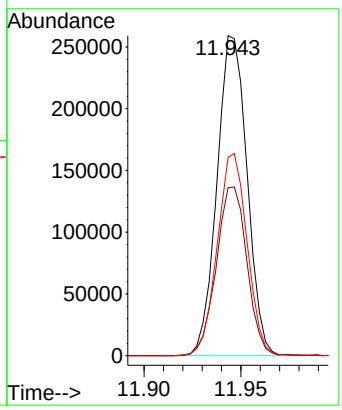





#77
1,2-Dichlorobenzene
Concen: 8.956 ppbv
RT: 11.943 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion:146 Resp: 27996

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 53.8 | 25.3 | 75.9 |
| 148 | 62.9 | 31.5 | 94.5 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

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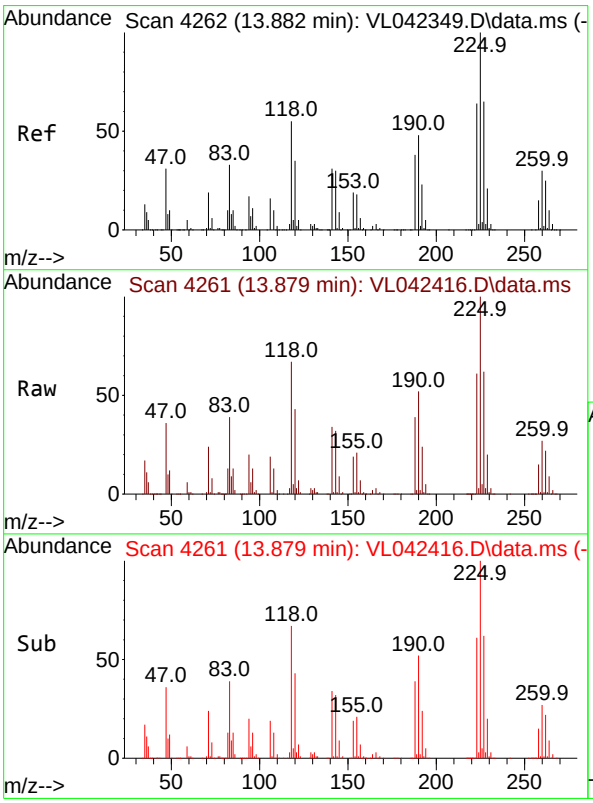
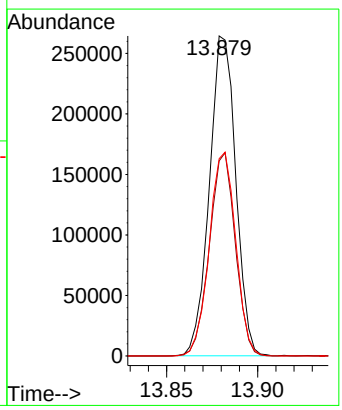
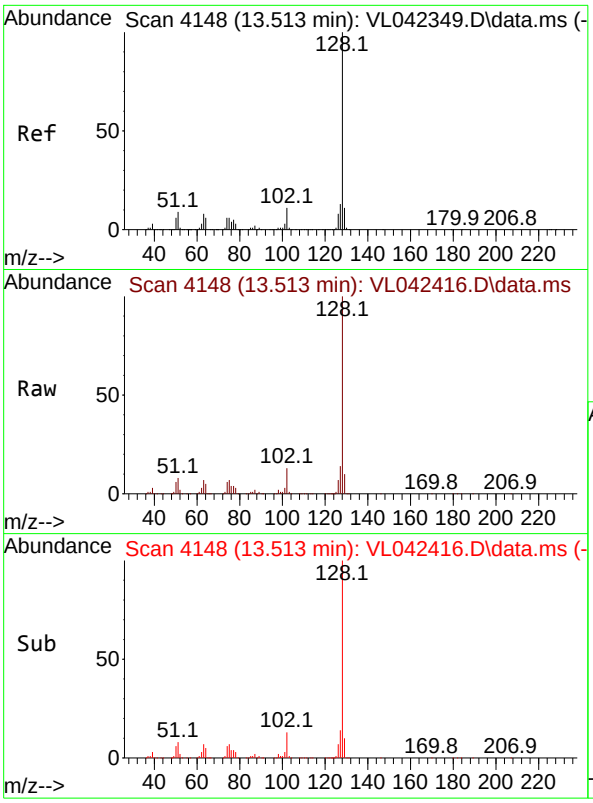



#78
Hexachloro-1,3-Butadiene
Concen: 8.419 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion:225 Resp: 265745

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.5 | 50.3 | 75.5 |
| 227 | 64.0 | 51.5 | 77.3 |

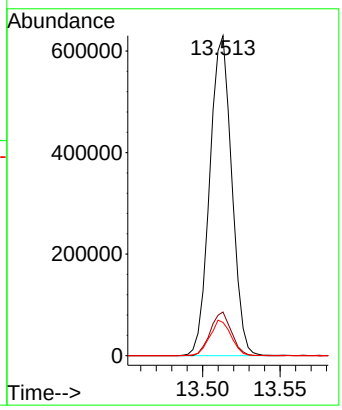





#79
Naphthalene
Concen: 8.418 ppbv
RT: 13.513 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion:128 Resp: 62260

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.7 | 10.6 | 15.8 |
| 129 | 10.4 | 8.6 | 12.8 |




**Instrument :**
MSVOA_L
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VSTDCCC010

**Manual Integrations**
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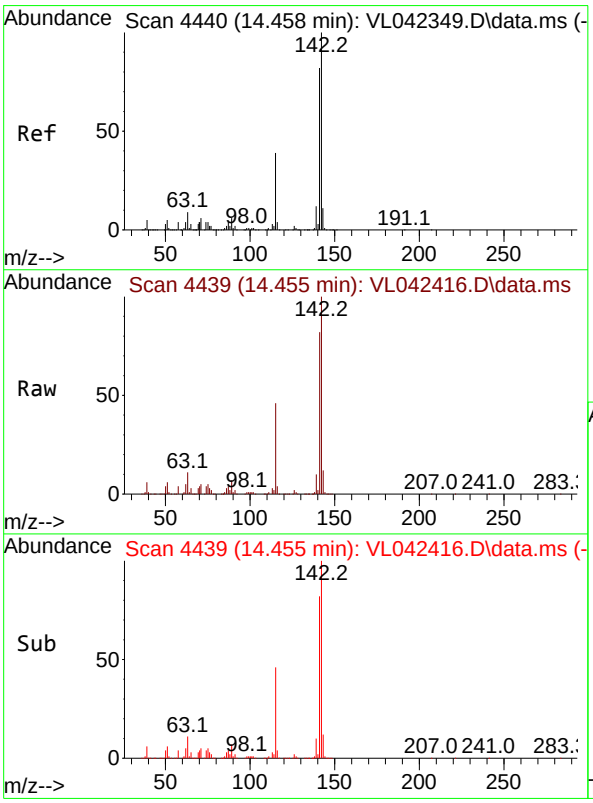
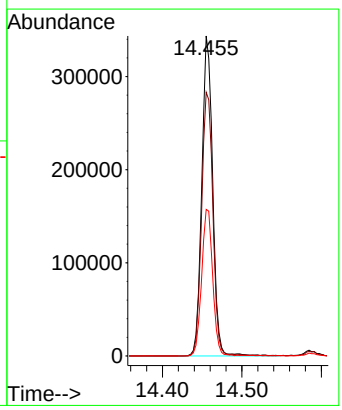
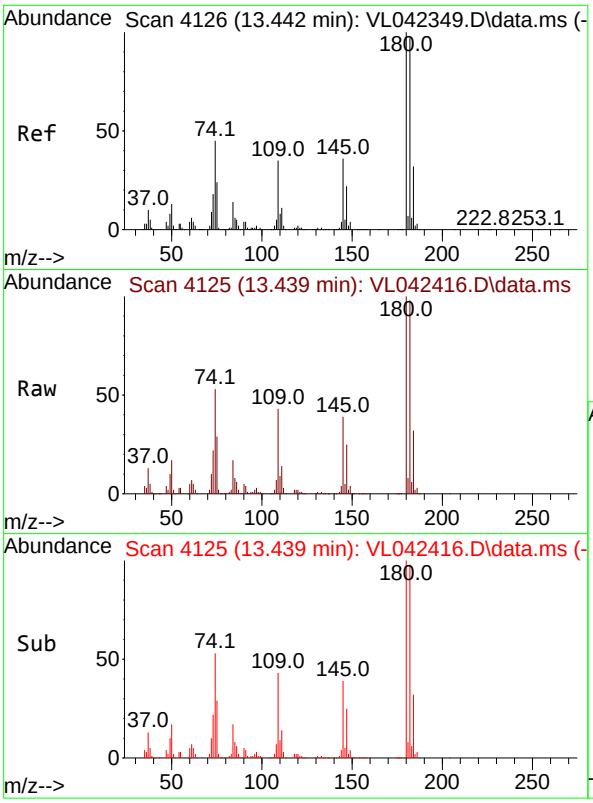



#80
Naphthalene,2-methyl-
Concen: 7.783 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion:142 Resp: 328047

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 86.0 | 66.8 | 100.2 |
| 115 | 47.0 | 33.4 | 50.2 |

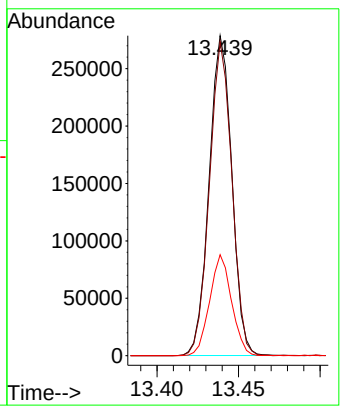





#81
1,2,4-Trichlorobenzene
Concen: 8.493 ppbv
RT: 13.439 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion:180 Resp: 26971

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 97.0 | 76.8 | 115.2 |
| 184 | 30.6 | 24.6 | 36.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042416.D
Acq On : 28 Apr 2025 08:44
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**LabSampleId :**
VSTDCCC010

Quant Time: Apr 29 01:31:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Bromochloromethane | 1.000 | 1.000 | 0.0 | 97 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 1.767 | 1.796 | -1.6 | 105 | 0.00 |
| 3 | | Chlorodifluoromethane | 1.682 | 1.575 | 6.4 | 97 | 0.00 |
| 4 | | Chloromethane | 0.699 | 0.698 | 0.1 | 104 | 0.00 |
| 5 | T | Vinyl Chloride | 0.761 | 0.679 | 10.8 | 103 | 0.00 |
| 6 | T | Bromomethane | 0.327 | 0.307 | 6.1 | 98 | 0.00 |
| 7 | | Chloroethane | 0.275 | 0.264 | 4.0 | 102 | 0.00 |
| 8 | T | Dichlorotetrafluoroethane | 1.517 | 1.551 | -2.2 | 105 | 0.00 |
| 9 | T | Propene | 0.766 | 0.623 | 18.7 | 88 | 0.00 |
| 10 | T | Heptane | 2.153 | 1.687 | 21.6 | 87 | 0.00 |
| 11 | T | Trichlorofluoromethane | 1.680 | 1.728 | -2.9 | 107 | 0.00 |
| 12 | T | 1,1,2-Trichlorotrifluoroeth | 1.374 | 1.337 | 2.7 | 102 | 0.00 |
| 13 | | Ethanol | 0.122 | 0.038# | 68.9# | 104 | 0.00 |
| 14 | T | Bromoethene | 0.518 | 0.518 | 0.0 | 103 | 0.00 |
| 15 | T | Acetone | 1.637 | 1.412 | 13.7 | 109 | 0.00 |
| 16 | T | 1,3-Butadiene | 0.783 | 0.695 | 11.2 | 104 | 0.00 |
| 17 | | tert-Butyl alcohol | 2.029 | 1.859 | 8.4 | 100 | 0.00 |
| 18 | T | 1,1-Dichloroethene | 0.642 | 0.605 | 5.8 | 101 | 0.00 |
| 19 | T | Isopropyl Alcohol | 0.909 | 0.828 | 8.9 | 98 | 0.00 |
| 20 | T | Methylene Chloride | 0.641 | 0.512 | 20.1 | 100 | 0.00 |
| 21 | T | Allyl Chloride | 1.130 | 1.026 | 9.2 | 103 | 0.00 |
| 22 | T | trans-1,2-Dichloroethene | 0.731 | 0.669 | 8.5 | 98 | 0.00 |
| 23 | T | Vinyl Acetate | 0.663 | 0.532 | 19.8 | 93 | 0.00 |
| 24 | T | 1,1-Dichloroethane | 1.388 | 1.337 | 3.7 | 101 | 0.00 |
| 25 | T | Ethyl Acetate | 4.036 | 3.485 | 13.7 | 92 | 0.00 |
| 26 | T | Hexane | 1.633 | 1.367 | 16.3 | 93 | 0.00 |
| 27 | T | Carbon Disulfide | 1.749 | 1.685 | 3.7 | 98 | 0.00 |
| 28 | T | Methyl tert-Butyl Ether | 1.070 | 0.955 | 10.7 | 99 | 0.00 |
| 29 | T | Chloroform | 2.309 | 2.303 | 0.3 | 104 | 0.00 |
| 30 | T | Cyclohexane | 1.320 | 1.168 | 11.5 | 91 | 0.00 |
| 31 | T | cis-1,2-Dichloroethene | 1.553 | 1.488 | 4.2 | 99 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 2.599 | 2.470 | 5.0 | 106 | 0.00 |
| 33 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 94 | 0.00 |
| 34 | T | 2-Butanone | 0.791 | 0.699 | 11.6 | 96 | 0.00 |
| 35 | T | Carbon Tetrachloride | 0.905 | 0.885 | 2.2 | 108 | 0.00 |
| 36 | T | Benzene | 1.079 | 0.982 | 9.0 | 92 | 0.00 |
| 37 | T | 1,2-Dichloroethane | 0.647 | 0.684 | -5.7 | 109 | 0.00 |
| 38 | T | Trichloroethene | 0.471 | 0.396 | 15.9 | 94 | 0.00 |
| 39 | T | 1,2-Dichloropropane | 0.402 | 0.354 | 11.9 | 90 | 0.00 |
| 40 | T | 1,4-Dioxane | 0.221 | 0.171 | 22.6 | 88 | 0.00 |
| 41 | T | Tetrahydrofuran | 0.461 | 0.386 | 16.3 | 89 | 0.00 |
| 42 | T | Bromodichloromethane | 0.901 | 0.901 | 0.0 | 100 | 0.00 |
| 43 | | Methyl Methacrylate | 0.486 | 0.400 | 17.7 | 88 | 0.00 |
| 44 | T | 2,2,4-Trimethylpentane | 1.863 | 1.630 | 12.5 | 90 | 0.00 |
| 45 | T | t-1,3-Dichloropropene | 0.497 | 0.456 | 8.2 | 93 | 0.00 |
| 46 | T | cis-1,3-Dichloropropene | 0.608 | 0.554 | 8.9 | 92 | 0.00 |
| 47 | T | 1,1,2-Trichloroethane | 0.410 | 0.388 | 5.4 | 97 | 0.00 |
| 48 | T | Dibromochloromethane | 0.723 | 0.711 | 1.7 | 99 | 0.00 |

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042416.D
Acq On : 28 Apr 2025 08:44
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**LabSampleId :**
VSTDCCC010

Quant Time: Apr 29 01:31:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | Bromoform | 0.633 | 0.577 | 8.8 | 88 | 0.00 |
| 50 | T | 4-Methyl-2-Pentanone | 1.314 | 1.032 | 21.5 | 90 | 0.00 |
| 51 | T | 2-Hexanone | 1.179 | 0.832 | 29.4 | 88 | 0.00 |
| 52 | T | Tetrachloroethene | 0.417 | 0.331 | 20.6 | 87 | 0.00 |
| 53 | T | Toluene | 1.294 | 1.154 | 10.8 | 91 | 0.00 |
| 54 | T | 1,2-Dibromoethane | 0.586 | 0.550 | 6.1 | 96 | 0.00 |
| 55 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 90 | 0.00 |
| 56 | | 1,1,1,2-Tetrachloroethane | 0.605 | 0.603 | 0.3 | 99 | 0.00 |
| 57 | T | Chlorobenzene | 1.040 | 0.985 | 5.3 | 93 | 0.00 |
| 58 | T | Ethyl Benzene | 1.981 | 1.861 | 6.1 | 92 | 0.00 |
| 59 | T | m/p-Xylene | 1.596 | 1.522 | 4.6 | 94 | 0.00 |
| 60 | T | o-Xylene | 1.607 | 1.528 | 4.9 | 96 | 0.00 |
| 61 | T | Styrene | 0.767 | 0.698 | 9.0 | 87 | 0.00 |
| 62 | | Isopropylbenzene | 2.360 | 2.230 | 5.5 | 93 | 0.00 |
| 63 | T | 1,1,2,2-Tetrachloroethane | 1.042 | 0.900 | 13.6 | 93 | 0.00 |
| 64 | | n-propylbenzene | 0.593 | 0.547 | 7.8 | 91 | 0.00 |
| 65 | | tert-Butylbenzene | 2.169 | 1.999 | 7.8 | 95 | 0.00 |
| 66 | T | Benzyl Chloride | 0.238 | 0.194 | 18.5 | 71 | 0.00 |
| 67 | | sec-Butylbenzene | 3.017 | 2.798 | 7.3 | 95 | 0.00 |
| 68 | S | 1-Bromo-4-Fluorobenzene | 0.822 | 0.866 | -5.4 | 94 | 0.00 |
| 69 | | p-Isopropyltoluene | 2.621 | 2.399 | 8.5 | 94 | 0.00 |
| 70 | | n-Butylbenzene | 2.730 | 2.508 | 8.1 | 96 | 0.00 |
| 71 | | 2-Chlorotoluene | 1.851 | 1.752 | 5.3 | 93 | 0.00 |
| 72 | T | 4-Ethyltoluene | 1.965 | 1.823 | 7.2 | 93 | 0.00 |
| 73 | T | 1,3,5-Trimethylbenzene | 1.735 | 1.596 | 8.0 | 95 | 0.00 |
| 74 | T | 1,2,4-Trimethylbenzene | 2.026 | 1.775 | 12.4 | 96 | 0.00 |
| 75 | T | 1,3-Dichlorobenzene | 1.053 | 0.941 | 10.6 | 90 | 0.00 |
| 76 | T | 1,4-Dichlorobenzene | 1.059 | 0.952 | 10.1 | 91 | 0.00 |
| 77 | T | 1,2-Dichlorobenzene | 1.024 | 0.917 | 10.4 | 92 | 0.00 |
| 78 | T | Hexachloro-1,3-Butadiene | 1.034 | 0.871 | 15.8 | 91 | 0.00 |
| 79 | T | Naphthalene | 2.423 | 2.040 | 15.8 | 92 | 0.00 |
| 80 | T | Naphthalene,2-methyl- | 1.381 | 1.075 | 22.2 | 87 | 0.00 |
| 81 | T | 1,2,4-Trichlorobenzene | 1.040 | 0.884 | 15.0 | 88 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WOOD06

Lab Code: CHEM Case No.: Q1665 SAS No.: Q1665 SDG No.: Q1665

Instrument ID: MSVOA_L Calibration Date/Time: 04/29/2025 08:39

Lab File ID: VL042436.D Init. Calib. Date(s): 04/17/2025 04/17/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:44 12:54

GC Column: RTX-1 ID: 0.32 (mm)

| COMPOUND | RRF | RRF010 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 1.767 | 2.050 | | 16.02 | 30 |
| Ethanol | 0.122 | 0.038 | | -68.85 | 30 |
| Chloromethane | 0.699 | 0.788 | | 12.73 | 30 |
| Vinyl Chloride | 0.761 | 0.756 | | -0.66 | 30 |
| Bromomethane | 0.327 | 0.358 | | 9.48 | 30 |
| Chloroethane | 0.275 | 0.307 | | 11.64 | 30 |
| Tetrahydrofuran | 0.461 | 0.391 | | -15.18 | 30 |
| Trichlorofluoromethane | 1.680 | 1.990 | | 18.45 | 30 |
| 1,1,2-Trichlorotrifluoroethane | 1.374 | 1.502 | | 9.32 | 30 |
| Dichlorotetrafluoroethane | 1.517 | 1.746 | | 15.1 | 30 |
| Bromoethene | 0.518 | 0.555 | | 7.14 | 30 |
| tert-Butyl alcohol | 2.029 | 2.005 | | -1.18 | 30 |
| Heptane | 2.153 | 1.613 | | -25.08 | 30 |
| Isopropyl Alcohol | 0.909 | 0.890 | | -2.09 | 30 |
| 1,1-Dichloroethene | 0.642 | 0.659 | | 2.65 | 30 |
| Acetone | 1.637 | 1.614 | | -1.4 | 30 |
| Carbon Disulfide | 1.749 | 1.858 | | 6.23 | 30 |
| Methyl tert-Butyl Ether | 1.070 | 0.996 | | -6.92 | 30 |
| Methylene Chloride | 0.641 | 0.587 | | -8.42 | 30 |
| trans-1,2-Dichloroethene | 0.731 | 0.756 | | 3.42 | 30 |
| 1,1-Dichloroethane | 1.388 | 1.506 | | 8.5 | 30 |
| Cyclohexane | 1.320 | 1.140 | | -13.64 | 30 |
| 2-Butanone | 0.791 | 0.745 | | -5.82 | 30 |
| Carbon Tetrachloride | 0.905 | 1.017 | | 12.38 | 30 |
| cis-1,2-Dichloroethene | 1.553 | 1.525 | | -1.8 | 30 |
| Chloroform | 2.309 | 2.540 | | 10 | 30 |
| 1,1,1-Trichloroethane | 2.599 | 2.727 | | 4.93 | 30 |
| 2,2,4-Trimethylpentane | 1.863 | 1.678 | | -9.93 | 30 |
| Benzene | 1.079 | 1.010 | | -6.39 | 30 |
| 1,2-Dichloroethane | 0.647 | 0.786 | | 21.48 | 30 |
| Trichloroethene | 0.471 | 0.398 | | -15.5 | 30 |
| 1,2-Dichloropropane | 0.402 | 0.354 | | -11.94 | 30 |
| Bromodichloromethane | 0.901 | 1.002 | | 11.21 | 30 |
| 4-Methyl-2-Pentanone | 1.314 | 1.047 | | -20.32 | 30 |
| Toluene | 1.294 | 1.161 | | -10.28 | 30 |
| t-1,3-Dichloropropene | 0.497 | 0.448 | | -9.86 | 30 |
| cis-1,3-Dichloropropene | 0.608 | 0.544 | | -10.53 | 30 |
| 1,1,2-Trichloroethane | 0.410 | 0.415 | | 1.22 | 30 |

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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Fax : 908 789 8922

## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WOOD06

Lab Code: CHEM Case No.: Q1665 SAS No.: Q1665 SDG No.: Q1665

Instrument ID: MSVOA_L Calibration Date/Time: 04/29/2025 08:39

Lab File ID: VL042436.D Init. Calib. Date(s): 04/17/2025 04/17/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:44 12:54

GC Column: RTX-1 ID: 0.32 (mm)

| COMPOUND | RRF | RRF010 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dibromochloromethane | 0.723 | 0.748 | | 3.46 | 30 |
| 1,2-Dibromoethane | 0.586 | 0.578 | | -1.37 | 30 |
| Tetrachloroethene | 0.417 | 0.327 | | -21.58 | 30 |
| Chlorobenzene | 1.040 | 1.049 | | 0.87 | 30 |
| Ethyl Benzene | 1.981 | 1.988 | | 0.35 | 30 |
| m/p-Xylene | 1.596 | 1.685 | | 5.58 | 30 |
| o-Xylene | 1.607 | 1.718 | | 6.91 | 30 |
| Styrene | 0.767 | 0.725 | | -5.48 | 30 |
| Bromoform | 0.633 | 0.607 | | -4.11 | 30 |
| 1,1,2,2-Tetrachloroethane | 1.042 | 1.010 | | -3.07 | 30 |
| 2-Chlorotoluene | 1.851 | 1.956 | | 5.67 | 30 |
| 1,3,5-Trimethylbenzene | 1.735 | 1.830 | | 5.48 | 30 |
| 1,2,4-Trimethylbenzene | 2.026 | 2.052 | | 1.28 | 30 |
| 1,3-Dichlorobenzene | 1.053 | 1.056 | | 0.28 | 30 |
| 1,4-Dichlorobenzene | 1.059 | 1.081 | | 2.08 | 30 |
| 1,2-Dichlorobenzene | 1.024 | 1.051 | | 2.64 | 30 |
| 1,2,4-Trichlorobenzene | 1.040 | 0.974 | | -6.35 | 30 |
| Hexachloro-1,3-Butadiene | 1.034 | 0.976 | | -5.61 | 30 |
| 1,3-Butadiene | 0.783 | 0.776 | | -0.89 | 30 |
| Naphthalene | 2.423 | 2.279 | | -5.94 | 30 |
| 4-Ethyltoluene | 1.965 | 2.072 | | 5.45 | 30 |
| 1-Bromo-4-Fluorobenzene | 0.822 | 0.938 | | 14.11 | 30 |
| Hexane | 1.633 | 1.343 | | -17.76 | 30 |
| Allyl Chloride | 1.130 | 1.151 | | 1.86 | 30 |
| 1,4-Dioxane | 220.893 | 174.653 | | -20.93 | 30 |
| Methyl Methacrylate | 0.486 | 0.407 | | -16.25 | 30 |

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
Data File : VL042436.D
Acq On : 29 Apr 2025 08:39
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 30 01:15:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.780 | 49 | 114553 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.952 | 114 | 311268 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.878 | 117 | 269987 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.373 | 95 | 253216 | 11.413 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 114.100% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.495 | 85 | 234841 | 11.603 | ppbv | 97 |
| 3) Chlorodifluoromethane | 1.473 | 51 | 188007 | 9.755 | ppbv | 95 |
| 4) Chloromethane | 1.531 | 50 | 90298 | 11.274 | ppbv | 100 |
| 5) Vinyl Chloride | 1.576 | 62 | 86603 | 9.933 | ppbv | 96 |
| 6) Bromomethane | 1.664 | 94 | 41020 | 10.952 | ppbv | 85 |
| 7) Chloroethane | 1.703 | 64 | 35167 | 11.153 | ppbv | 95 |
| 8) Dichlorotetrafluoroethane | 1.550 | 85 | 199977 | 11.508 | ppbv | 94 |
| 9) Propene | 1.482 | 41 | 69189 | 7.883 | ppbv | 98 |
| 10) Heptane | 4.968 | 43 | 184737 | 7.492 | ppbv | 99 |
| 11) Trichlorofluoromethane | 1.874 | 101 | 227979 | 11.845 | ppbv | 96 |
| 12) 1,1,2-Trichlorotrifluo... | 2.136 | 101 | 172070 | 10.934 | ppbv | 99 |
| 13) Ethanol | 1.719 | 45 | 4336 | 3.108 | ppbv | 81 |
| 14) Bromoethene | 1.777 | 108 | 63597 | 10.721 | ppbv | 97 |
| 15) Acetone | 1.832 | 43 | 184887 | 9.859 | ppbv | 98 |
| 16) 1,3-Butadiene | 1.605 | 39 | 88889 | 9.910 | ppbv | 95 |
| 17) tert-Butyl alcohol | 2.036 | 59 | 229627 | 9.881 | ppbv | 99 |
| 18) 1,1-Dichloroethene | 2.029 | 96 | 75451 | 10.263 | ppbv | 94 |
| 19) Isopropyl Alcohol | 1.884 | 45 | 101987 | 9.790 | ppbv | 91 |
| 20) Methylene Chloride | 2.059 | 84 | 67278 | 9.161 | ppbv | 95 |
| 21) Allyl Chloride | 2.091 | 41 | 131864 | 10.184 | ppbv | 98 |
| 22) trans-1,2-Dichloroethene | 2.337 | 96 | 86577 | 10.343 | ppbv | 95 |
| 23) Vinyl Acetate | 2.460 | 43 | 61601 | 8.115 | ppbv # | 95 |
| 24) 1,1-Dichloroethane | 2.405 | 63 | 172555 | 10.852 | ppbv | 98 |
| 25) Ethyl Acetate | 2.832 | 43 | 408744 | 8.840 | ppbv | 100 |
| 26) Hexane | 2.819 | 57 | 153801 | 8.220 | ppbv | 96 |
| 27) Carbon Disulfide | 2.146 | 76 | 212793 | 10.622 | ppbv | 99 |
| 28) Methyl tert-Butyl Ether | 2.437 | 73 | 114108 | 9.308 | ppbv | 93 |
| 29) Chloroform | 2.845 | 83 | 290965 | 11.002 | ppbv | 100 |
| 30) Cyclohexane | 3.848 | 84 | 130608 | 8.635 | ppbv | 97 |
| 31) cis-1,2-Dichloroethene | 2.716 | 61 | 174659 | 9.818 | ppbv | 97 |
| 32) 1,1,1-Trichloroethane | 3.363 | 97 | 312430 | 10.493 | ppbv | 99 |
| 34) 2-Butanone | 2.554 | 43 | 232034 | 9.426 | ppbv | 98 |
| 35) Carbon Tetrachloride | 3.755 | 117 | 316689 | 11.242 | ppbv | 94 |
| 36) Benzene | 3.651 | 78 | 314493 | 9.367 | ppbv | 95 |
| 37) 1,2-Dichloroethane | 3.214 | 62 | 244516 | 12.134 | ppbv # | 96 |
| 38) Trichloroethene | 4.541 | 130 | 123997 | 8.450 | ppbv # | 88 |
| 39) 1,2-Dichloropropane | 4.305 | 63 | 110315 | 8.817 | ppbv # | 84 |
| 40) 1,4-Dioxane | 4.577 | 88 | 54364 | 7.907 | ppbv # | 90 |
| 41) Tetrahydrofuran | 3.049 | 42 | 121700 | 8.479 | ppbv | 100 |
| 42) Bromodichloromethane | 4.483 | 83 | 312029 | 11.127 | ppbv | 98 |
| 43) Methyl Methacrylate | 4.874 | 69 | 126594 | 8.367 | ppbv | 94 |
| 44) 2,2,4-Trimethylpentane | 4.632 | 57 | 522427 | 9.010 | ppbv | 94 |
| 45) t-1,3-Dichloropropene | 6.409 | 75 | 139508 | 9.026 | ppbv | 89 |

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
Data File : VL042436.D
Acq On : 29 Apr 2025 08:39
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 30 01:15:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.587 | 75 | 169355 | 8.953 | ppbv | | 90 |
| 47) 1,1,2-Trichloroethane | 6.570 | 97 | 129223m | 10.138 | ppbv | | |
| 48) Dibromochloromethane | 7.380 | 129 | 232818 | 10.339 | ppbv | | 100 |
| 49) Bromoform | 9.477 | 173 | 188896 | 9.593 | ppbv | | 99 |
| 50) 4-Methyl-2-Pentanone | 5.742 | 43 | 325855 | 7.965 | ppbv | | 99 |
| 51) 2-Hexanone | 7.428 | 43 | 269915 | 7.357 | ppbv | # | 93 |
| 52) Tetrachloroethene | 8.218 | 164 | 101642 | 7.833 | ppbv | # | 84 |
| 53) Toluene | 6.926 | 91 | 361317 | 8.968 | ppbv | | 100 |
| 54) 1,2-Dibromoethane | 7.645 | 107 | 179895 | 9.861 | ppbv | | 97 |
| 56) 1,1,1,2-Tetrachloroethane | 8.917 | 131 | 182759 | 11.184 | ppbv | | 95 |
| 57) Chlorobenzene | 8.920 | 112 | 283210 | 10.086 | ppbv | | 97 |
| 58) Ethyl Benzene | 9.351 | 91 | 536634 | 10.032 | ppbv | | 96 |
| 59) m/p-Xylene | 9.529 | 91 | 909704m | 21.110 | ppbv | | |
| 60) o-Xylene | 9.959 | 91 | 463713 | 10.686 | ppbv | | 96 |
| 61) Styrene | 9.869 | 104 | 195813 | 9.454 | ppbv | | 98 |
| 62) Isopropylbenzene | 10.535 | 105 | 672630 | 10.558 | ppbv | | 98 |
| 63) 1,1,2,2-Tetrachloroethane | 9.959 | 83 | 272746 | 9.699 | ppbv | | 99 |
| 64) n-propylbenzene | 10.985 | 120 | 160736 | 10.037 | ppbv | | 90 |
| 65) tert-Butylbenzene | 11.529 | 119 | 616872 | 10.535 | ppbv | | 98 |
| 66) Benzyl Chloride | 11.613 | 91 | 49841 | 7.746 | ppbv | | 98 |
| 67) sec-Butylbenzene | 11.765 | 105 | 869595 | 10.677 | ppbv | | 99 |
| 69) p-Isopropyltoluene | 11.924 | 119 | 738863 | 10.442 | ppbv | | 96 |
| 70) n-Butylbenzene | 12.280 | 91 | 787717 | 10.688 | ppbv | | 98 |
| 71) 2-Chlorotoluene | 10.898 | 91 | 528205 | 10.571 | ppbv | | 96 |
| 72) 4-Ethyltoluene | 11.121 | 105 | 559285 | 10.542 | ppbv | | 96 |
| 73) 1,3,5-Trimethylbenzene | 11.199 | 105 | 493949 | 10.546 | ppbv | | 93 |
| 74) 1,2,4-Trimethylbenzene | 11.535 | 105 | 554136 | 10.130 | ppbv | | 96 |
| 75) 1,3-Dichlorobenzene | 11.603 | 146 | 285025 | 10.024 | ppbv | | 97 |
| 76) 1,4-Dichlorobenzene | 11.668 | 146 | 291795 | 10.210 | ppbv | | 98 |
| 77) 1,2-Dichlorobenzene | 11.943 | 146 | 283700 | 10.261 | ppbv | | 97 |
| 78) Hexachloro-1,3-Butadiene | 13.879 | 225 | 263477 | 9.437 | ppbv | | 99 |
| 79) Naphthalene | 13.510 | 128 | 615408 | 9.408 | ppbv | | 99 |
| 80) Naphthalene,2-methyl- | 14.455 | 142 | 316788 | 8.497 | ppbv | | 96 |
| 81) 1,2,4-Trichlorobenzene | 13.439 | 180 | 263006 | 9.363 | ppbv | | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

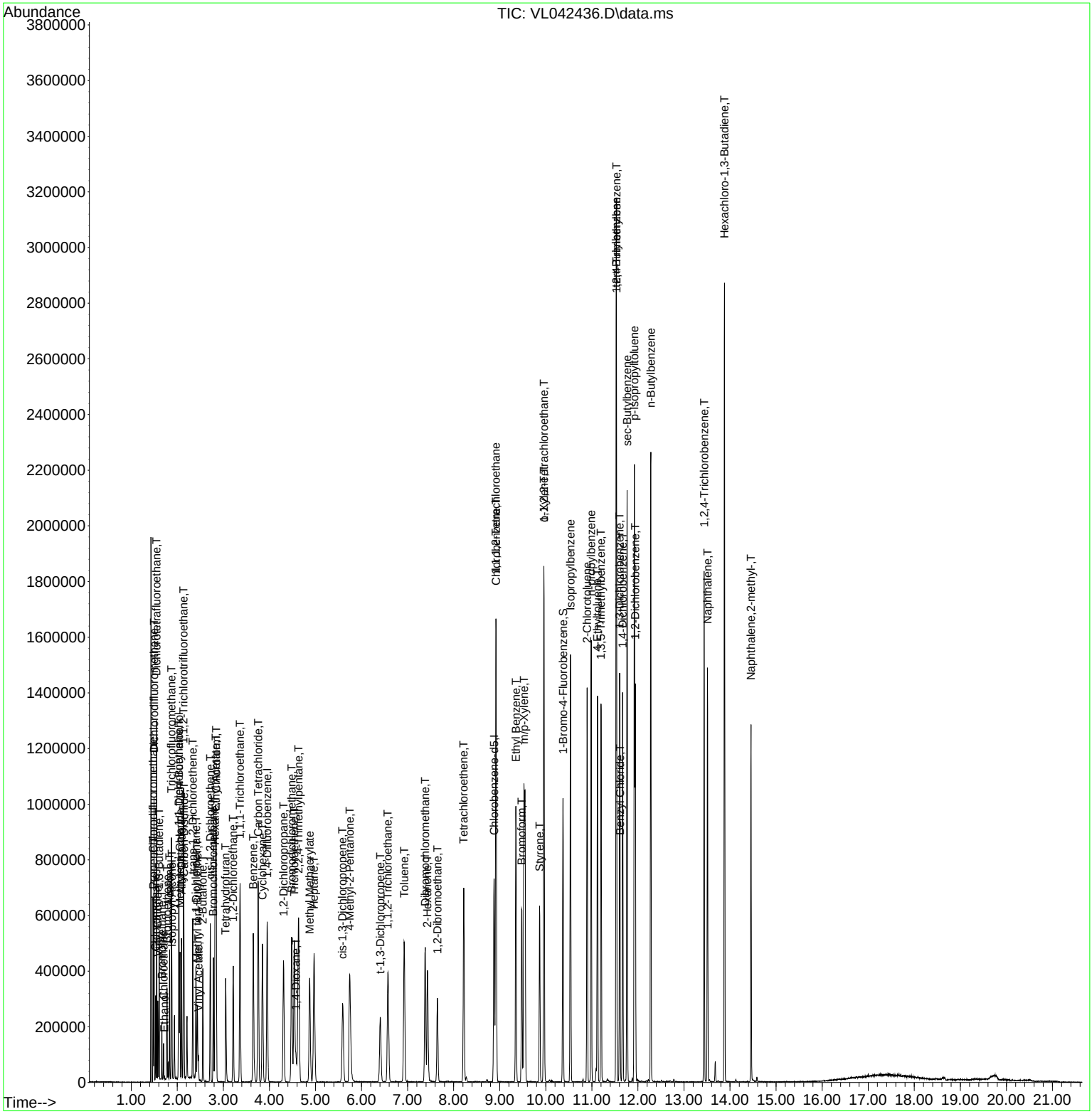
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
Data File : VL042436.D
Acq On : 29 Apr 2025 08:39
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

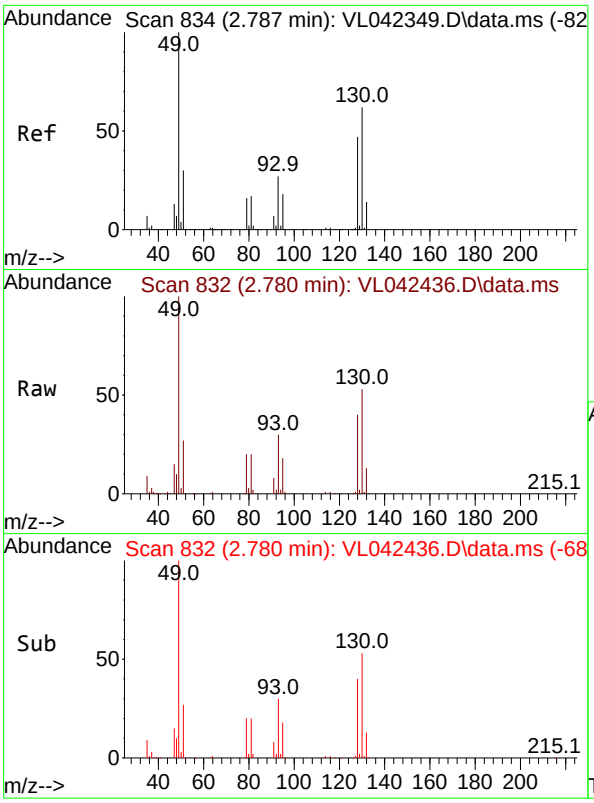
Quant Time: Apr 30 01:15:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

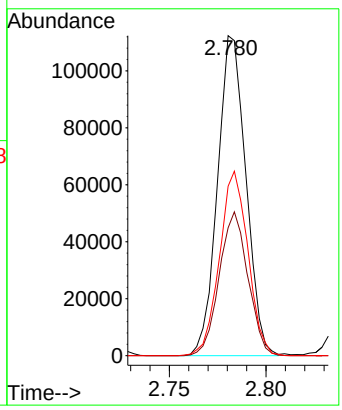





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.780 min Scan# 8
Delta R.T. -0.007 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 49 Resp: 11455

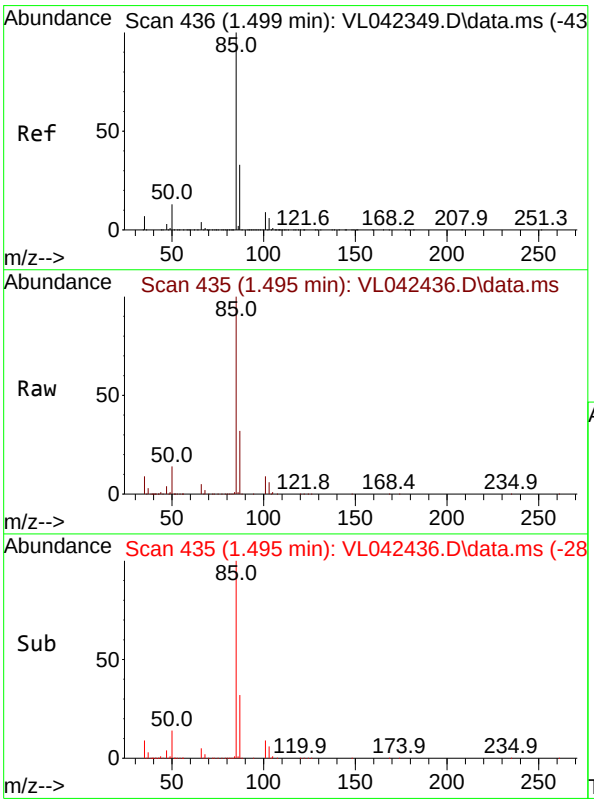
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 45.3 | 22.8 | 68.4 |
| 130 | 57.8 | 29.3 | 88.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
**APPROVED**

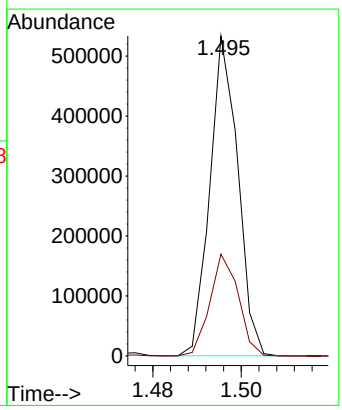
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

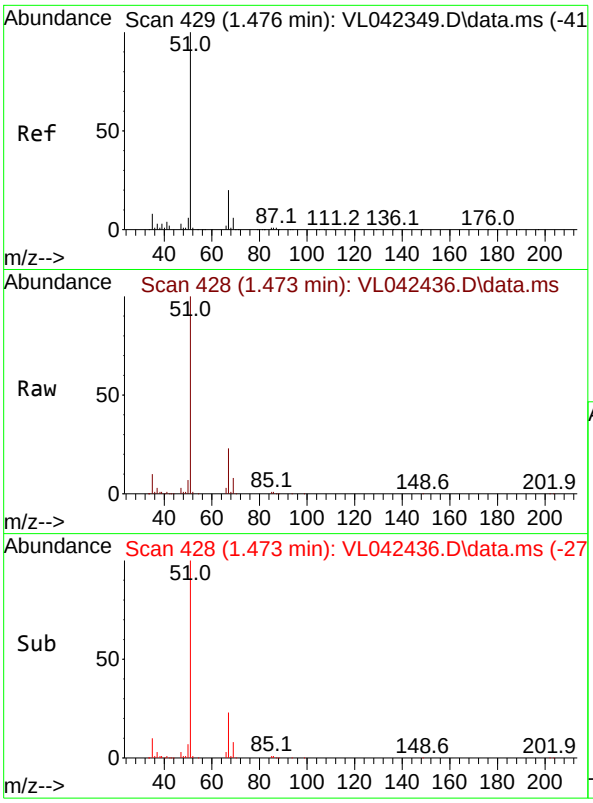



#2
Dichlorodifluoromethane
Concen: 11.603 ppbv
RT: 1.495 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 85 Resp: 234841

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.8 | 26.6 | 39.8 |






#3
Chlorodifluoromethane
Concen: 9.755 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

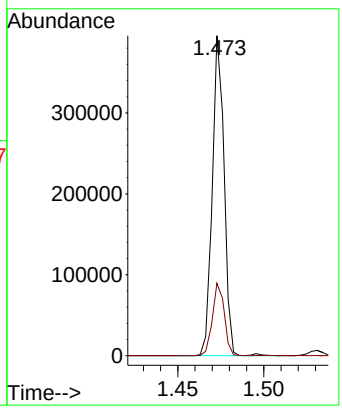
Tgt Ion: 51 Resp: 18800

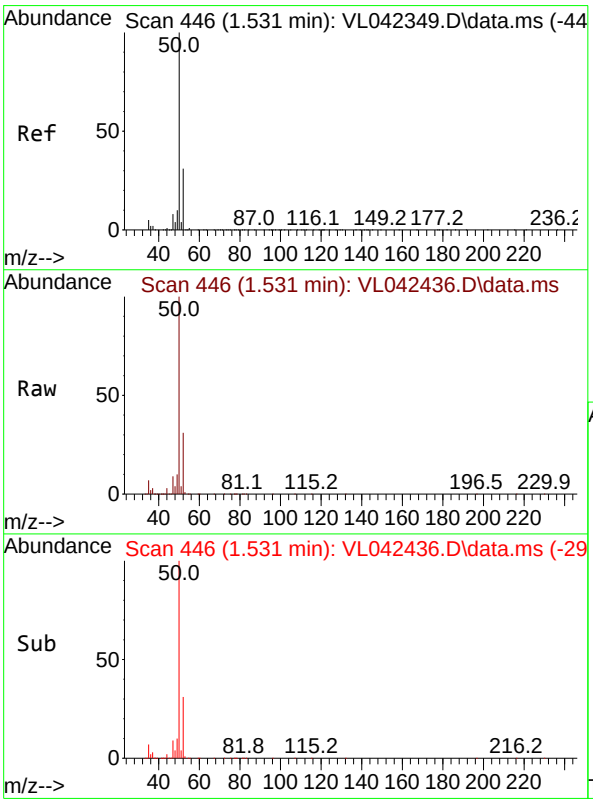
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 22.8 | 16.2 | 24.4 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

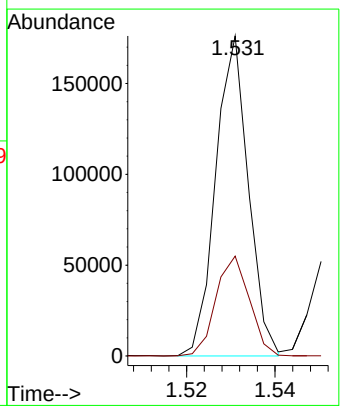


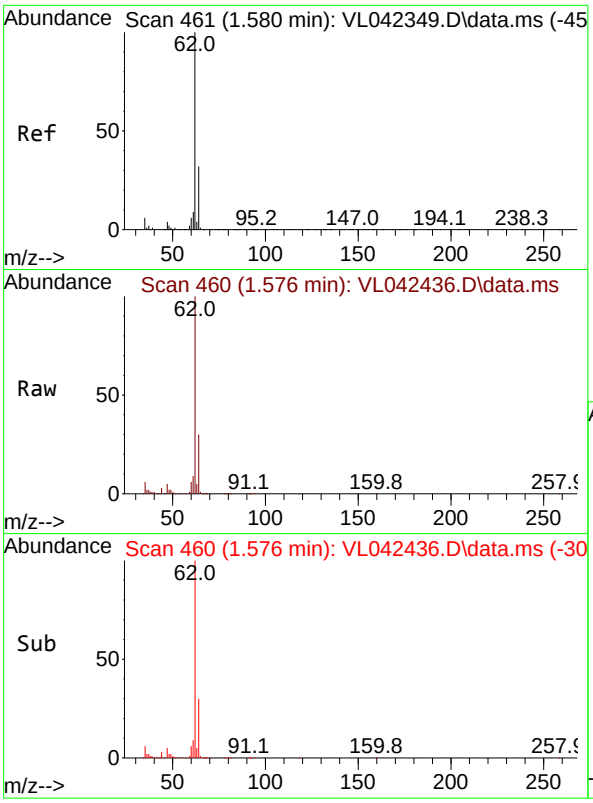




#4
Chloromethane
Concen: 11.274 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 50 Resp: 90298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 31.2 | 24.7 | 37.1 |

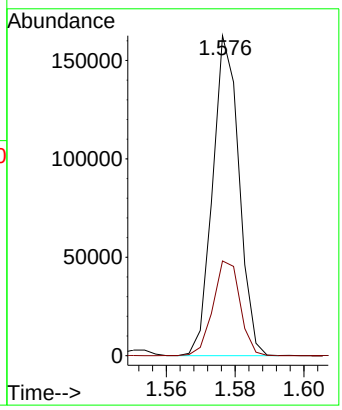





#5
Vinyl Chloride
Concen: 9.933 ppbv
RT: 1.576 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 62 Resp: 8660

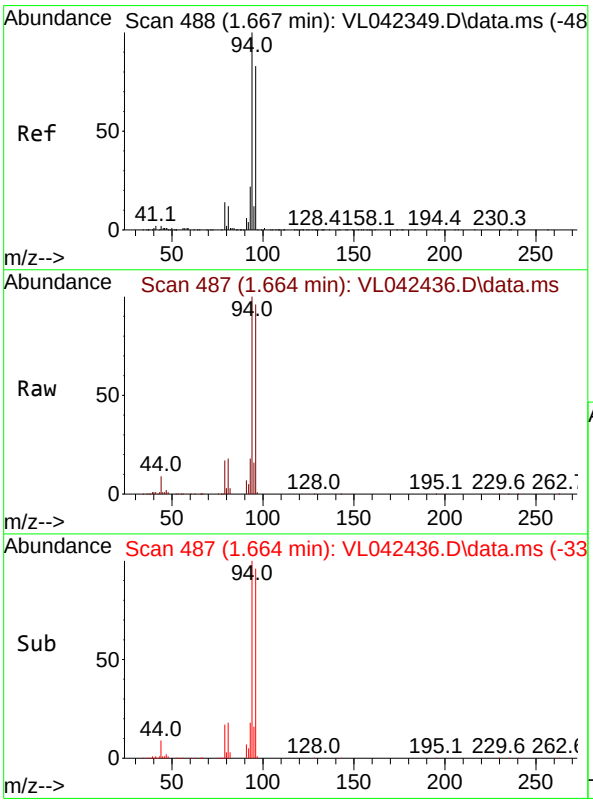
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 29.6 | 25.4 | 38.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
**APPROVED**

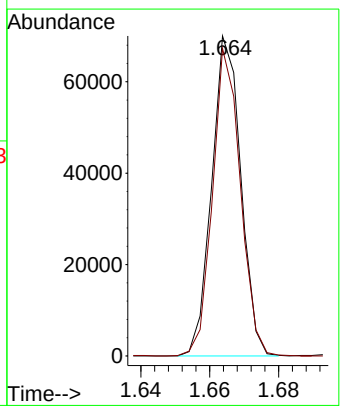
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

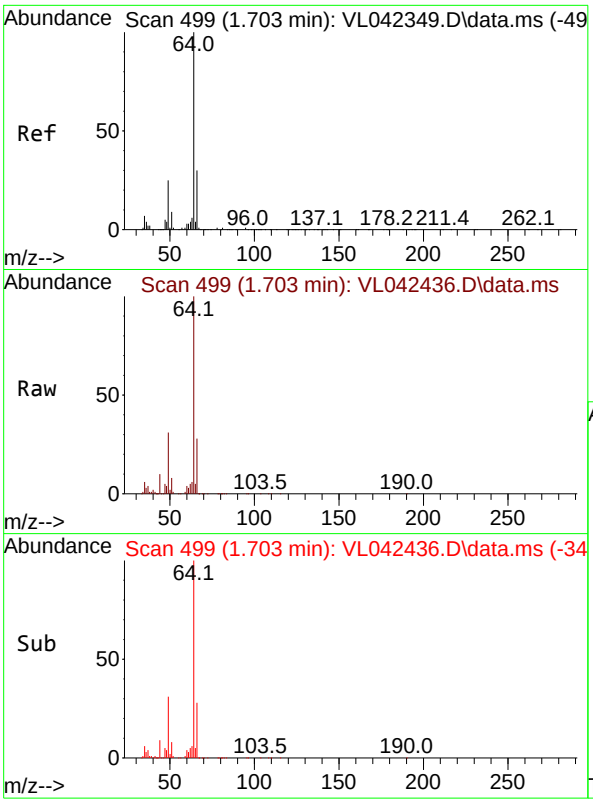



#6
Bromomethane
Concen: 10.952 ppbv
RT: 1.664 min Scan# 487
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 94 Resp: 41020

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 95.9 | 66.2 | 99.2 |

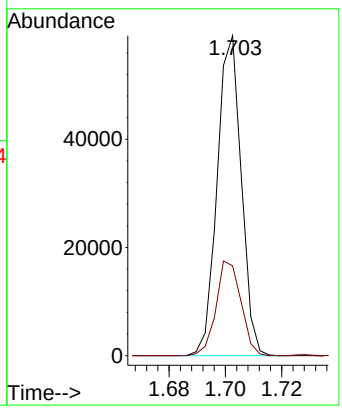





#7
Chloroethane
Concen: 11.153 ppbv
RT: 1.703 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 64 Resp: 3516

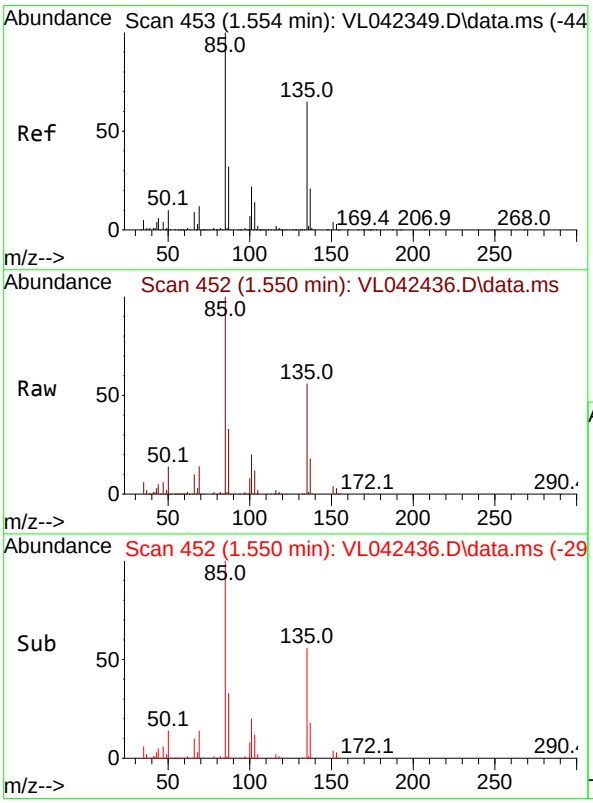
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 28.1 | 24.6 | 37.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
**APPROVED**

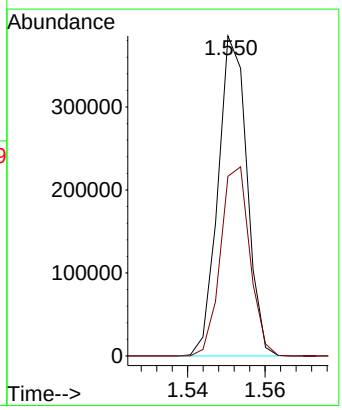
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

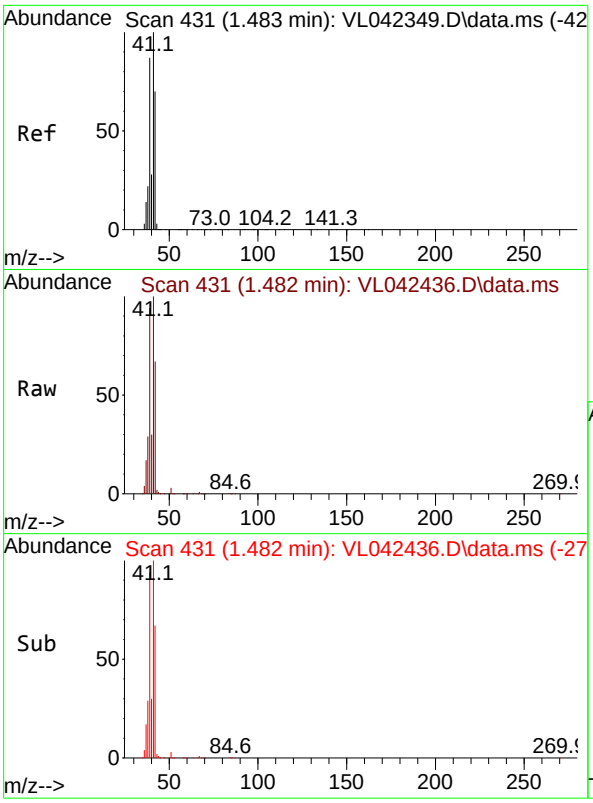



#8
Dichlorotetrafluoroethane
Concen: 11.508 ppbv
RT: 1.550 min Scan# 452
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 85 Resp: 199977

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 60.1 | 52.2 | 78.2 |

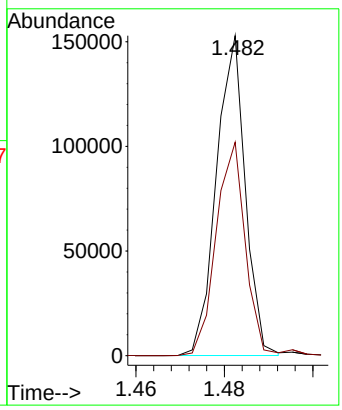





#9
Propene
Concen: 7.883 ppbv
RT: 1.482 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 41 Resp: 6918

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 68.7 | 56.2 | 84.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
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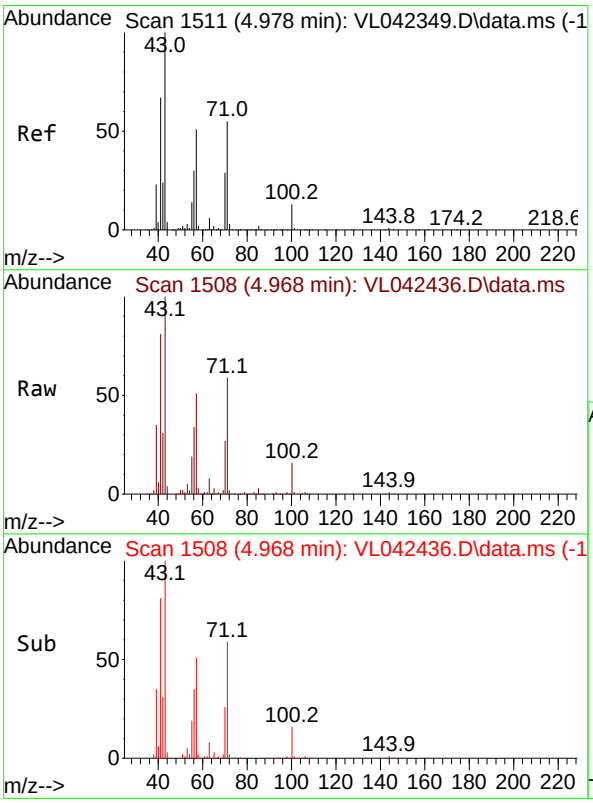
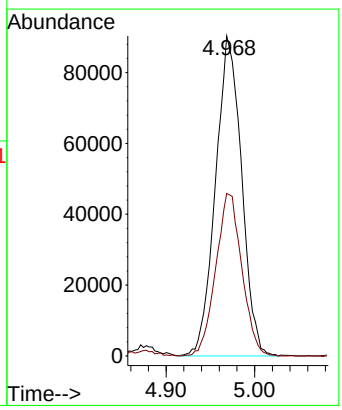
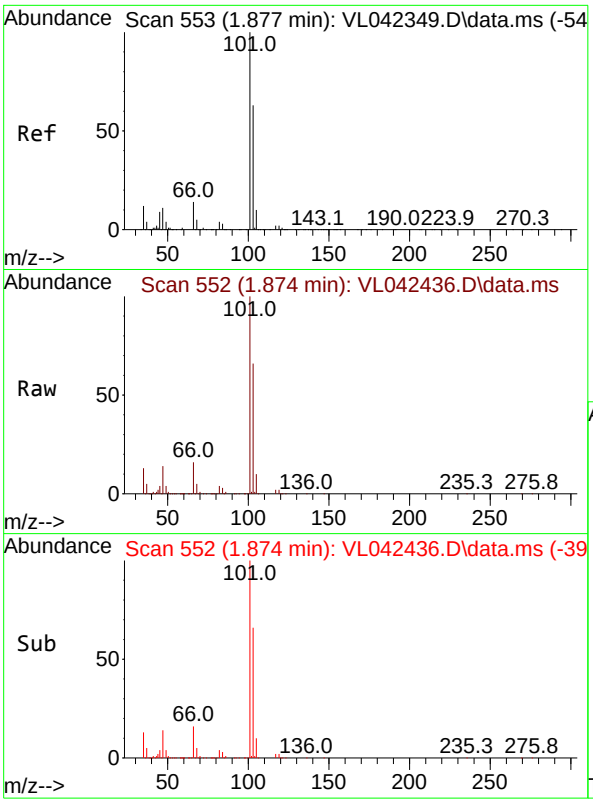



#10
Heptane
Concen: 7.492 ppbv
RT: 4.968 min Scan# 1508
Delta R.T. -0.010 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 43 Resp: 184737

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 50.9 | 39.9 | 59.9 |






#11
Trichlorofluoromethane
Concen: 11.845 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion:101 Resp: 22797

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 65.6 | 50.1 | 75.1 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
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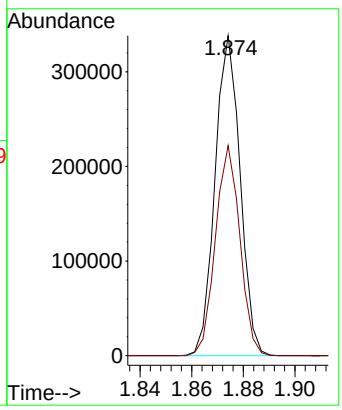
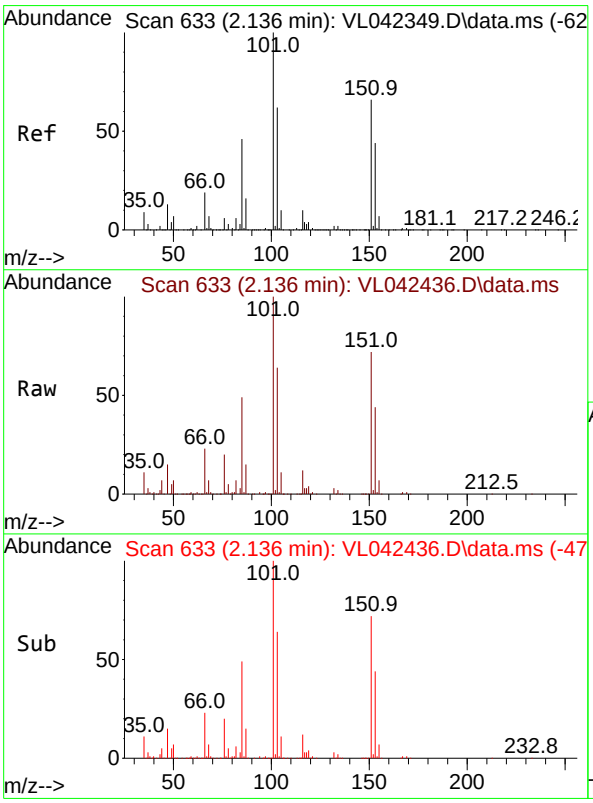
Supervised By :Mahesh Dadoda 04/30/2025

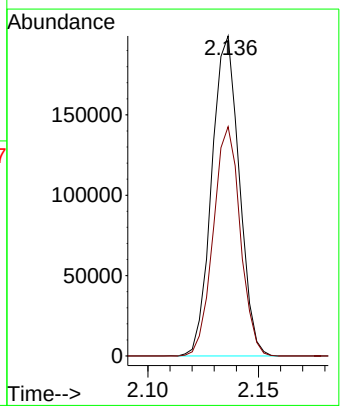


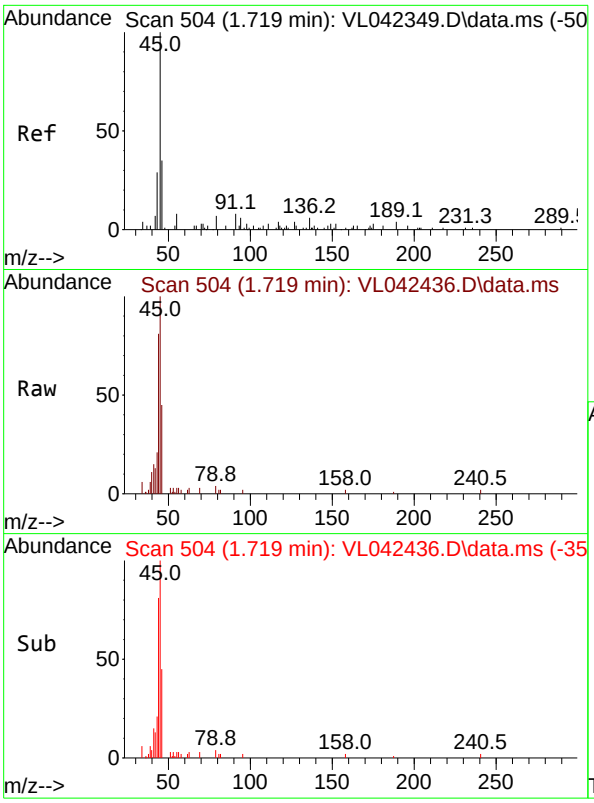




#12
1,1,2-Trichlorotrifluoroethane
Concen: 10.934 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion:101 Resp: 172070

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 70.1 | 57.0 | 85.6 |

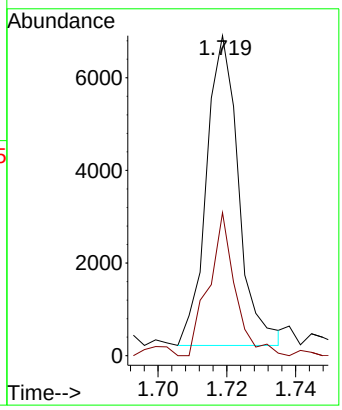





#13
Ethanol
Concen: 3.108 ppbv
RT: 1.719 min Scan# 5(
Delta R.T. -0.000 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 45 Resp: 433(

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 41.1 | 21.9 | 87.7 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/30/2025
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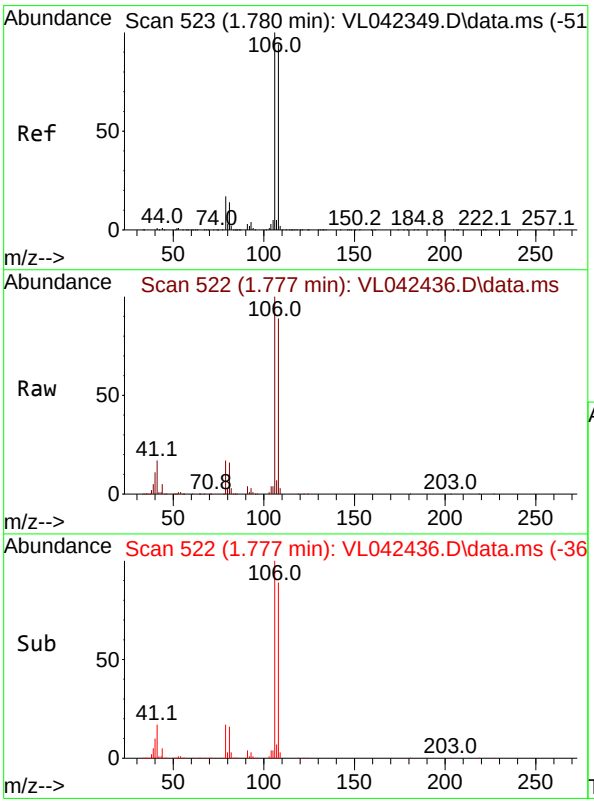
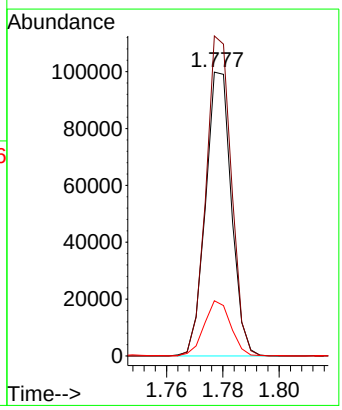
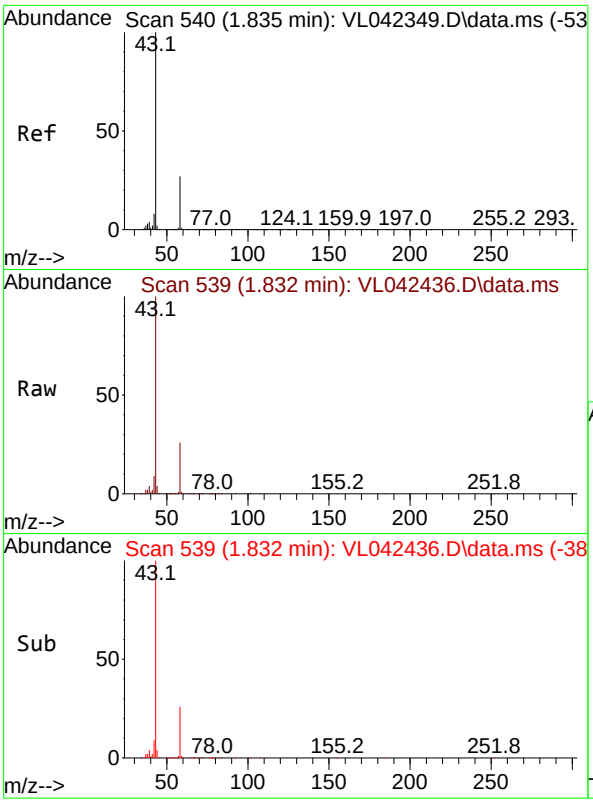



#14
Bromoethene
Concen: 10.721 ppbv
RT: 1.777 min Scan# 522
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion:108 Resp: 63597

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 106 | 110.4 | 85.9 | 128.9 |
| 79 | 20.1 | 13.9 | 20.9 |

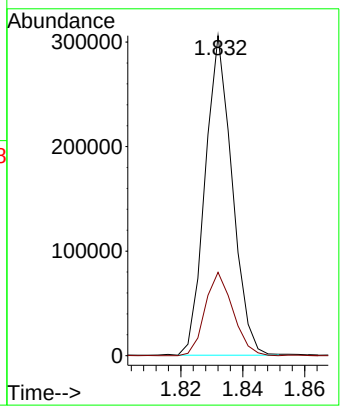





#15
Acetone
Concen: 9.859 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 43 Resp: 18488

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 27.0 | 22.4 | 33.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
**APPROVED**

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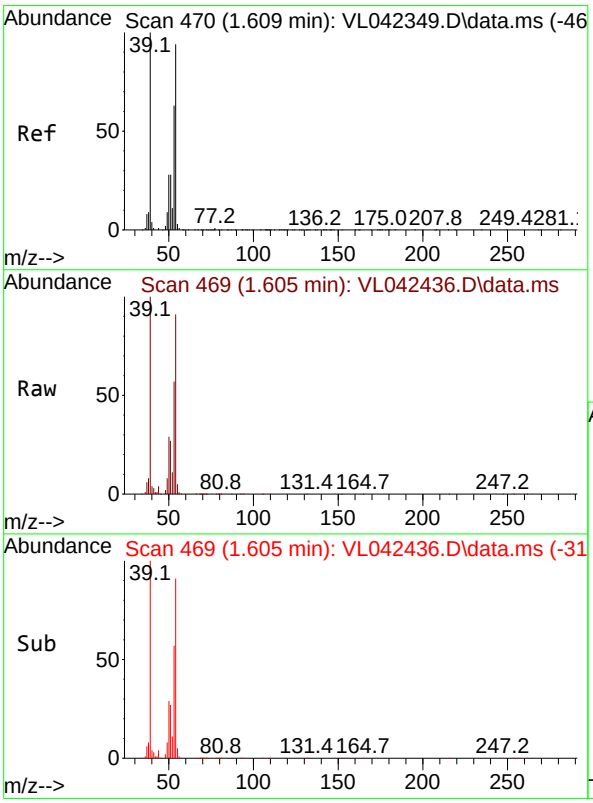
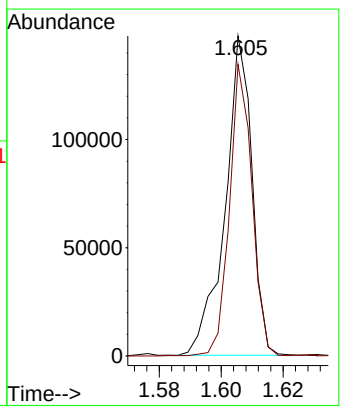
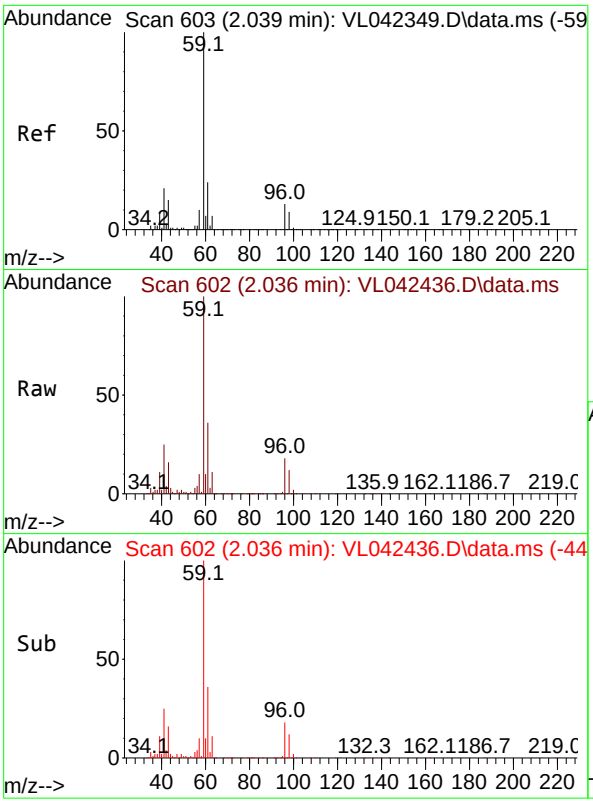



#16
1,3-Butadiene
Concen: 9.910 ppbv
RT: 1.605 min Scan# 469
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 39 Resp: 88889

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 76.7 | 64.9 | 97.3 |






#17
tert-Butyl alcohol
Concen: 9.881 ppbv
RT: 2.036 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

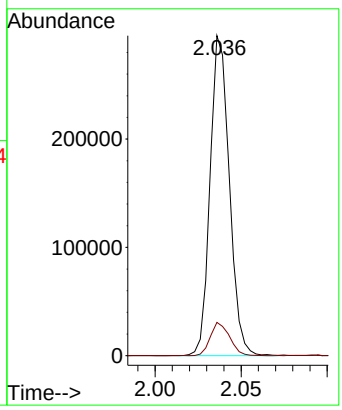
Tgt Ion: 59 Resp: 22962

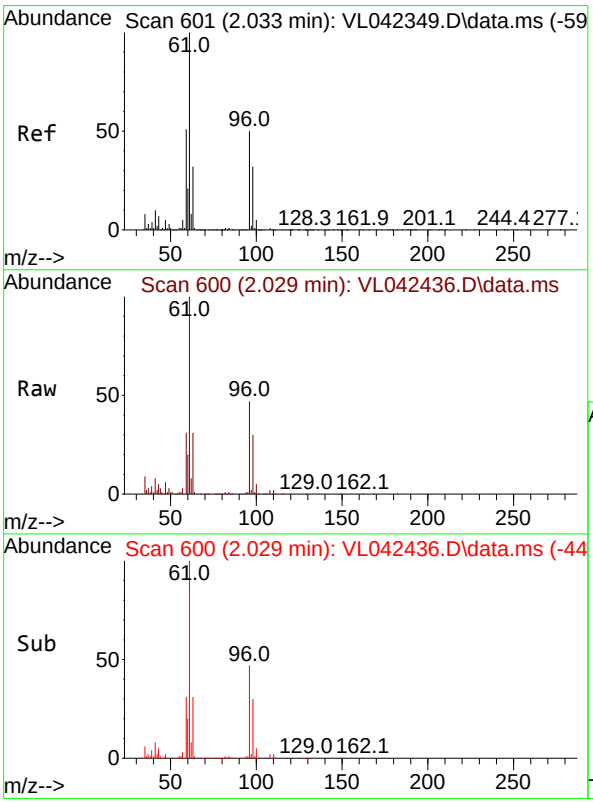
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.4 | 8.7 | 13.1 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

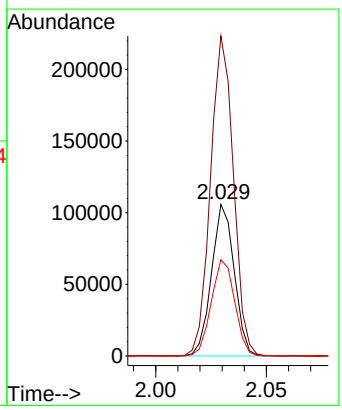


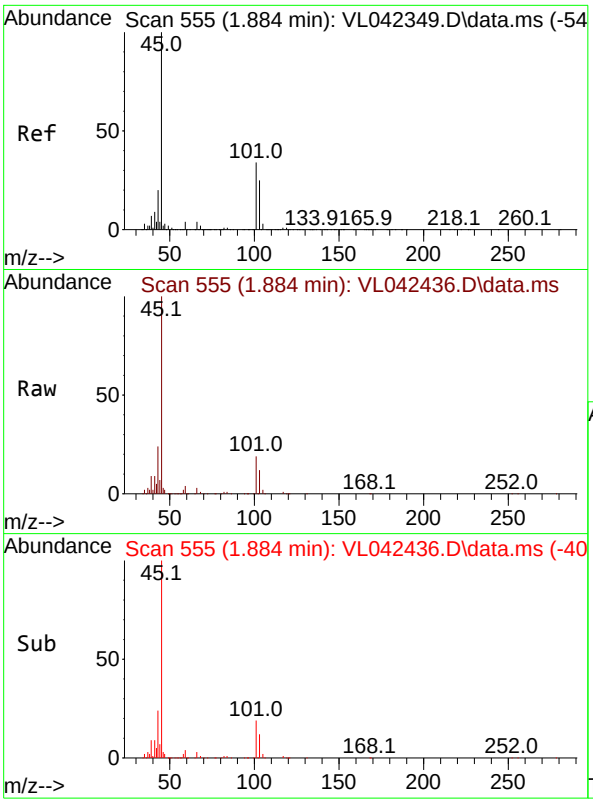




#18
1,1-Dichloroethene
Concen: 10.263 ppbv
RT: 2.029 min Scan# 600
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 96 Resp: 75451

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 211.2 | 160.2 | 240.2 |
| 98 | 63.6 | 51.0 | 76.4 |

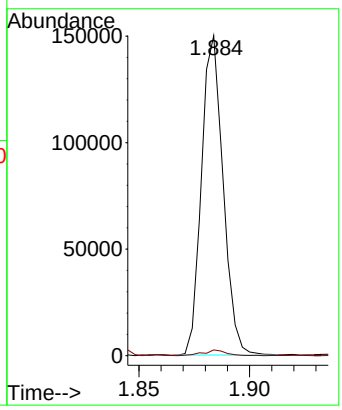





#19
Isopropyl Alcohol
Concen: 9.790 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 45 Resp: 10198

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 49.0 | 34.5 | 51.7 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
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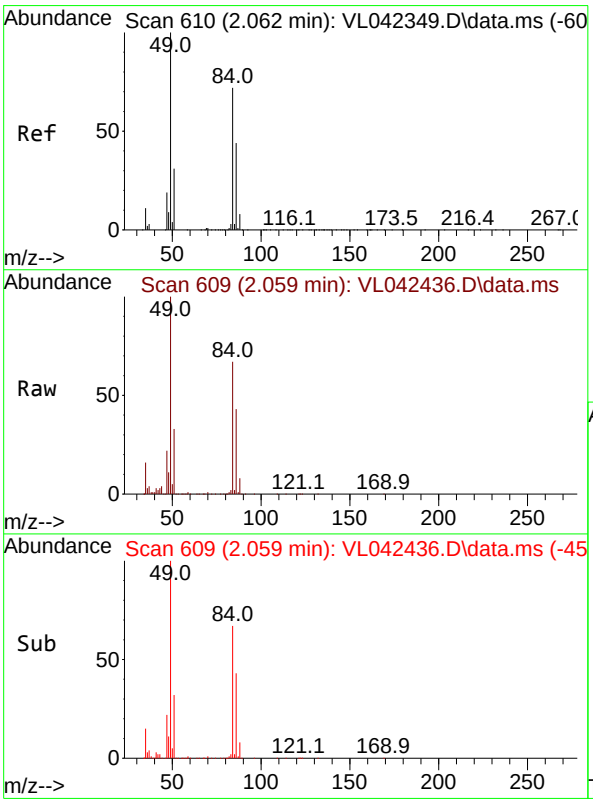
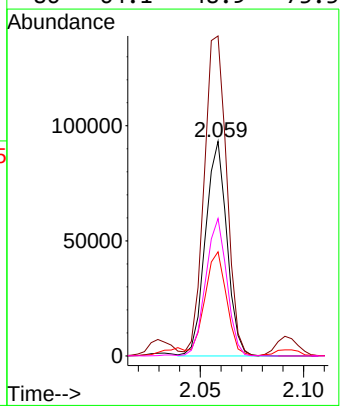
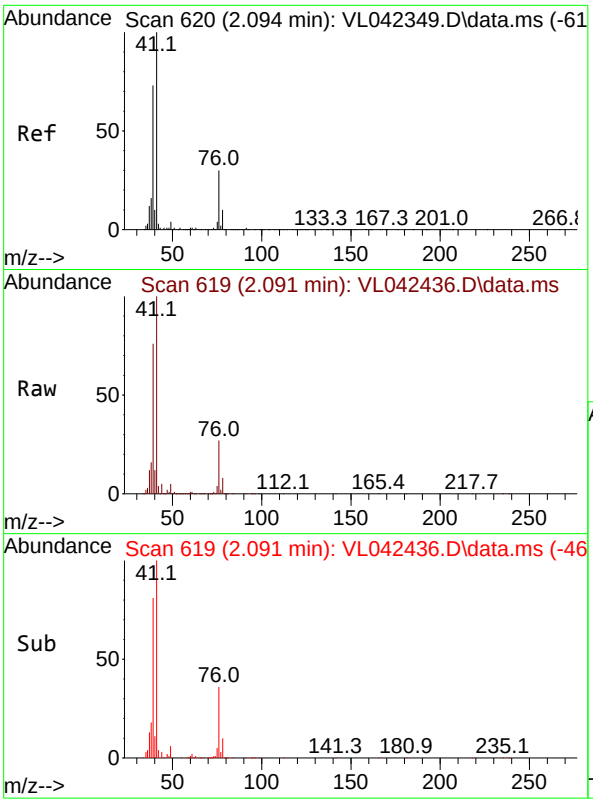



#20
Methylene Chloride
Concen: 9.161 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 84 Resp: 67278

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 146.9 | 111.6 | 167.4 |
| 51 | 45.9 | 35.1 | 52.7 |
| 86 | 64.1 | 48.9 | 73.3 |






#21
Allyl Chloride
Concen: 10.184 ppbv
RT: 2.091 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 41 Resp: 13186

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 29.4 | 24.8 | 37.2 |
| 39 | 77.4 | 60.6 | 90.8 |

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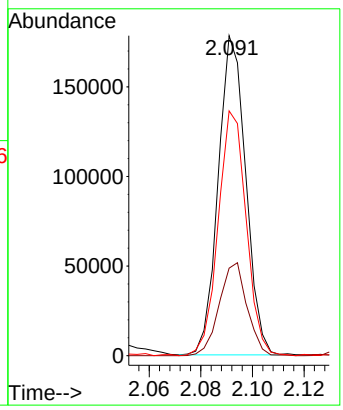
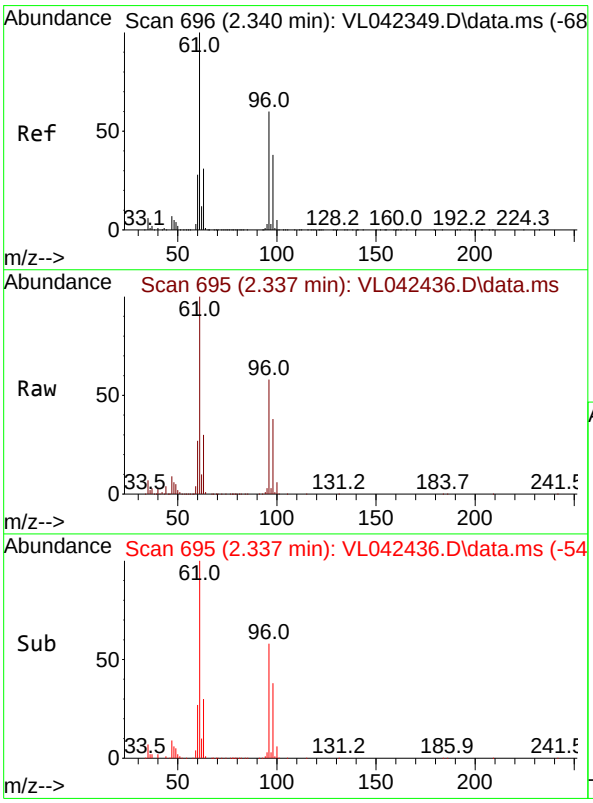
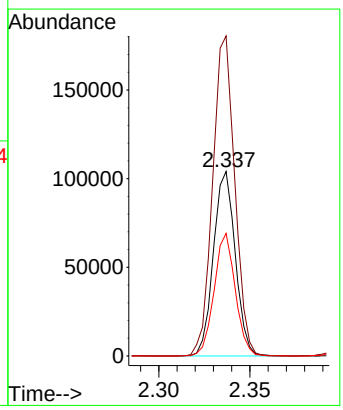


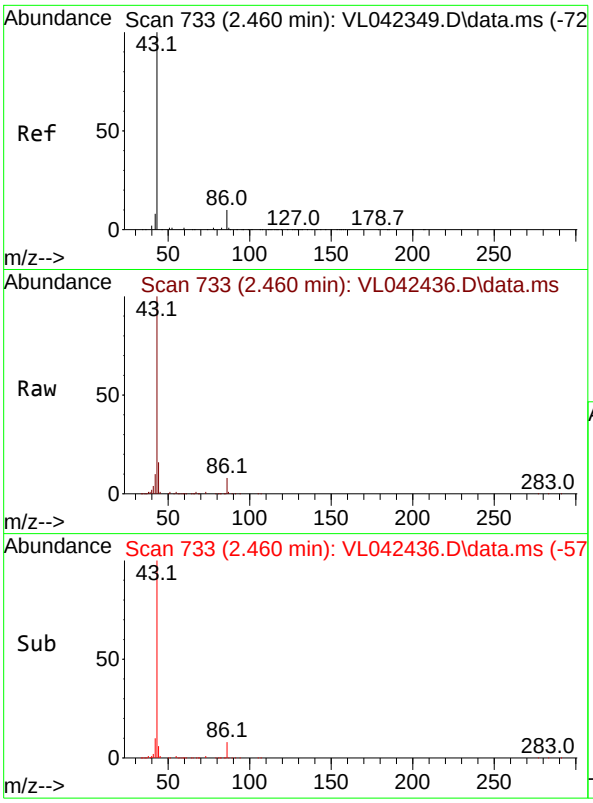




#22
trans-1,2-Dichloroethene
Concen: 10.343 ppbv
RT: 2.337 min Scan# 695
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 96 Resp: 86577

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 173.4 | 133.7 | 200.5 |
| 98 | 66.4 | 50.3 | 75.5 |

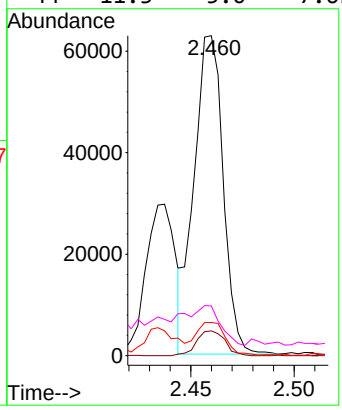





#23
Vinyl Acetate
Concen: 8.115 ppbv
RT: 2.460 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 43 Resp: 6160

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 7.6 | 6.5 | 9.7 |
| 42 | 10.2 | 7.8 | 11.8 |
| 44 | 11.3 | 5.0 | 7.6# |

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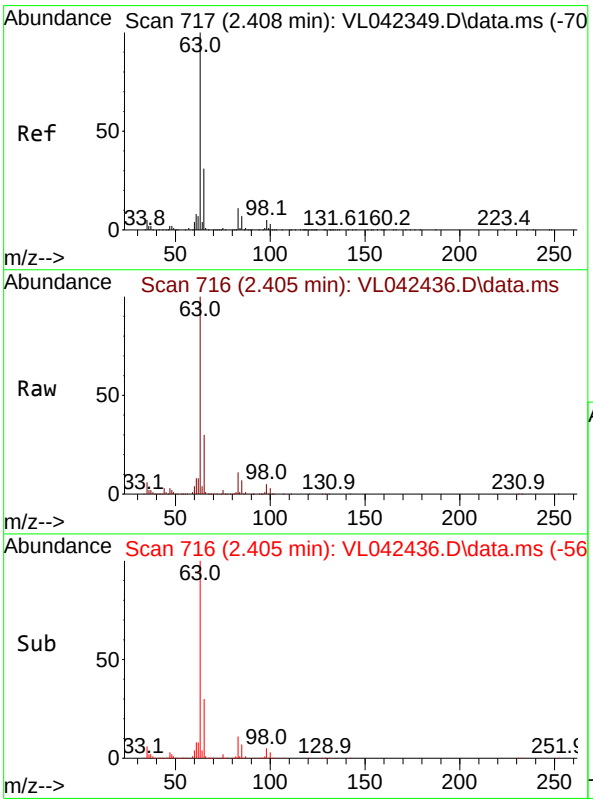
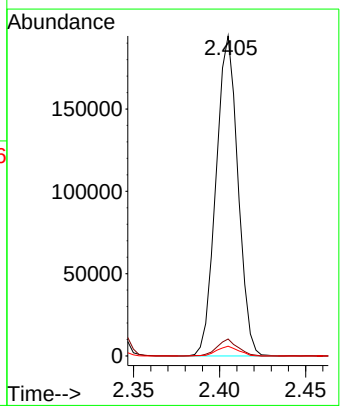
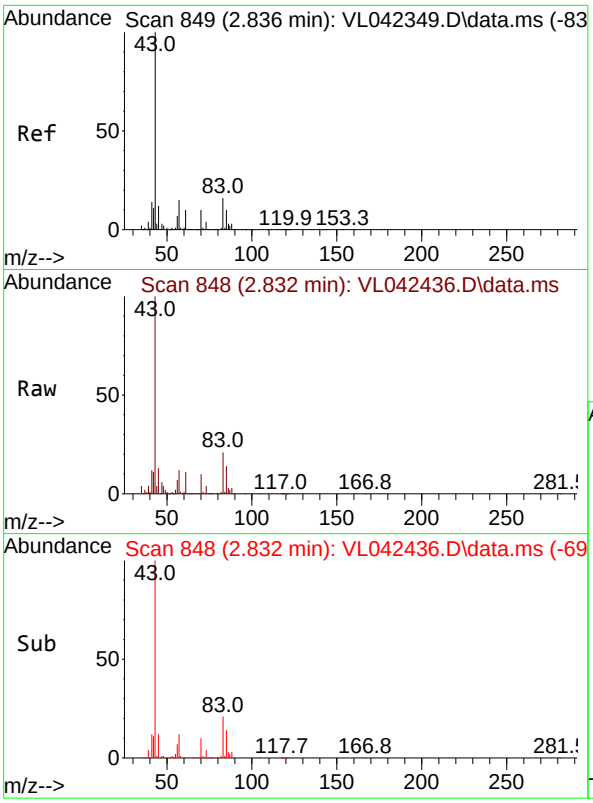



#24
1,1-Dichloroethane
Concen: 10.852 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 63 Resp: 172555

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 5.3 | 2.3 | 6.8 |
| 100 | 3.0 | 1.6 | 4.8 |

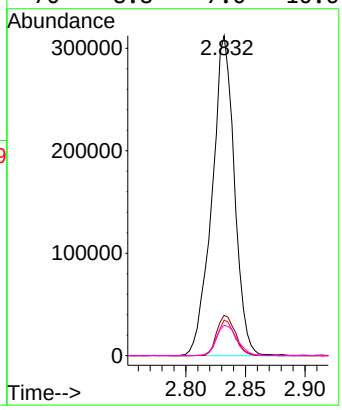





#25
Ethyl Acetate
Concen: 8.840 ppbv
RT: 2.832 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 43 Resp: 40874

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 10.5 | 8.3 | 12.5 |
| 61 | 8.9 | 7.3 | 10.9 |
| 70 | 8.8 | 7.0 | 10.6 |

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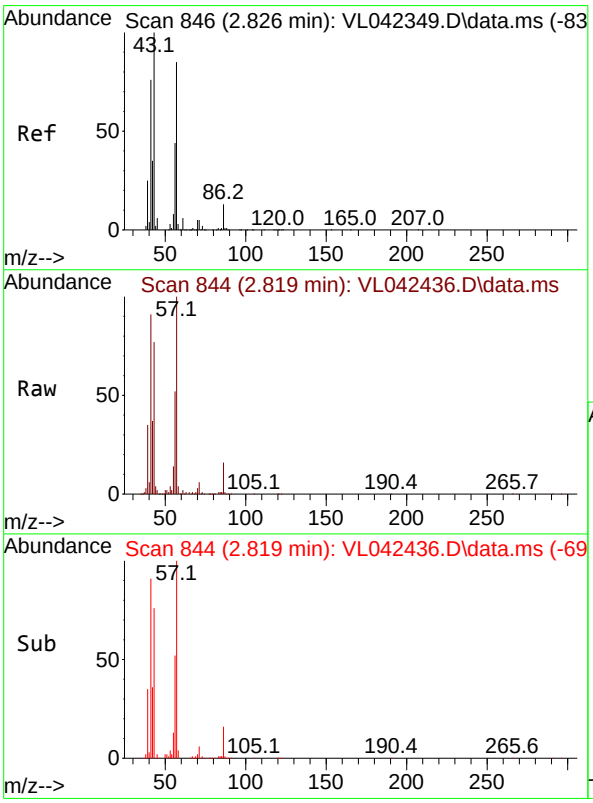
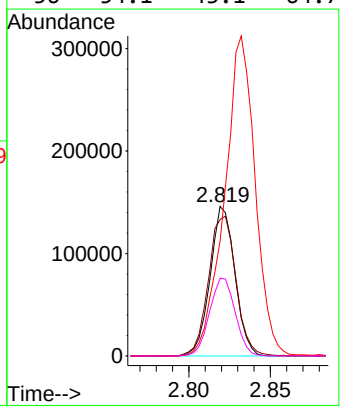
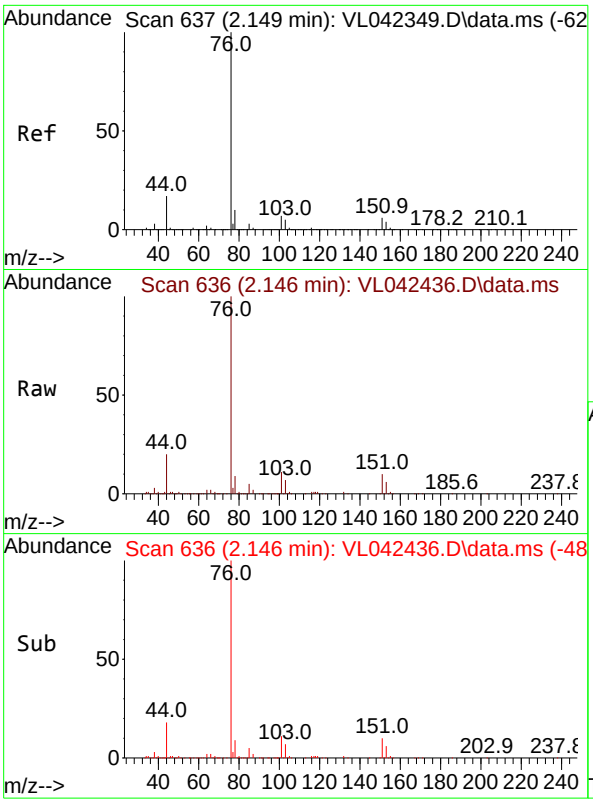



#26
Hexane
Concen: 8.220 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.007 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 57 Resp: 153801

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 104.3 | 77.9 | 116.9 |
| 43 | 266.3 | 208.4 | 312.6 |
| 56 | 54.1 | 43.1 | 64.7 |

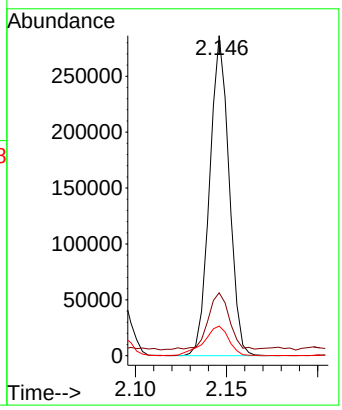





#27
Carbon Disulfide
Concen: 10.622 ppbv
RT: 2.146 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 76 Resp: 21279

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 18.9 | 15.5 | 23.3 |
| 78 | 11.9 | 9.3 | 13.9 |




**Instrument :**
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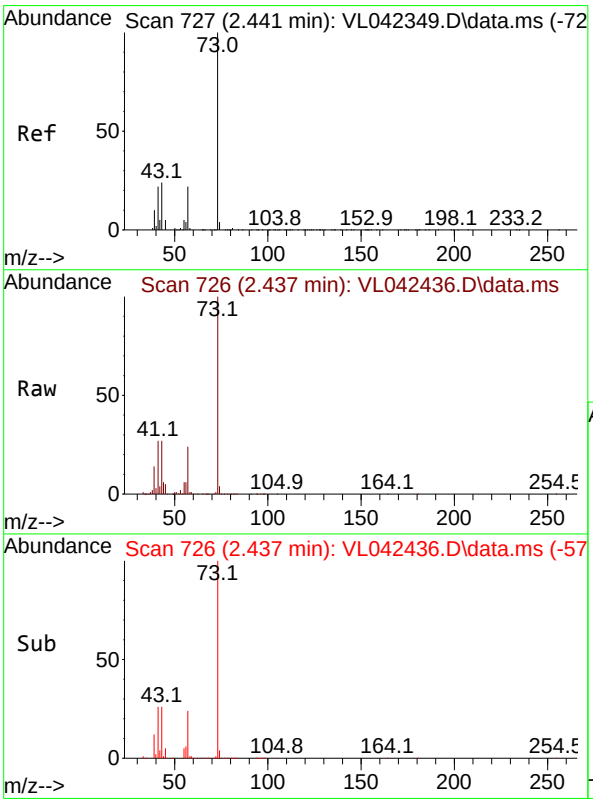
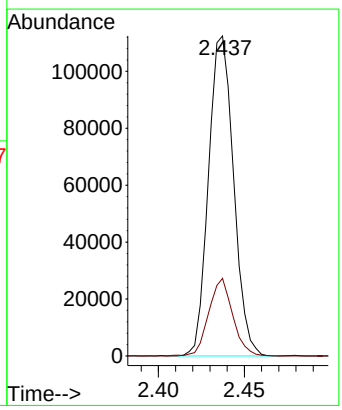
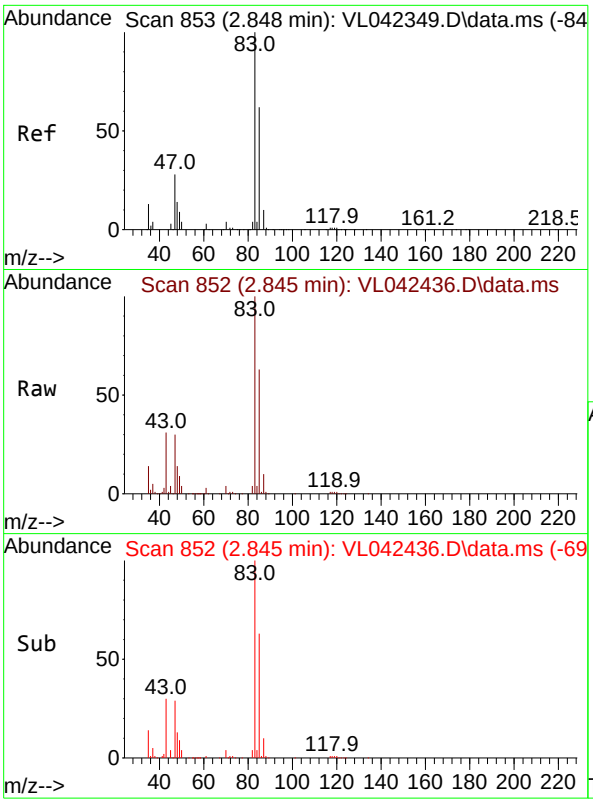



#28
Methyl tert-Butyl Ether
Concen: 9.308 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 73 Resp: 114108

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 23.1 | 21.3 | 31.9 |

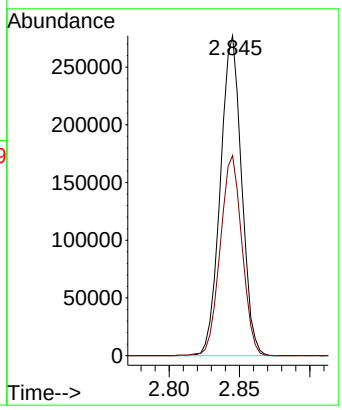





#29
Chloroform
Concen: 11.002 ppbv
RT: 2.845 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 83 Resp: 29096

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.6 | 50.0 | 75.0 |

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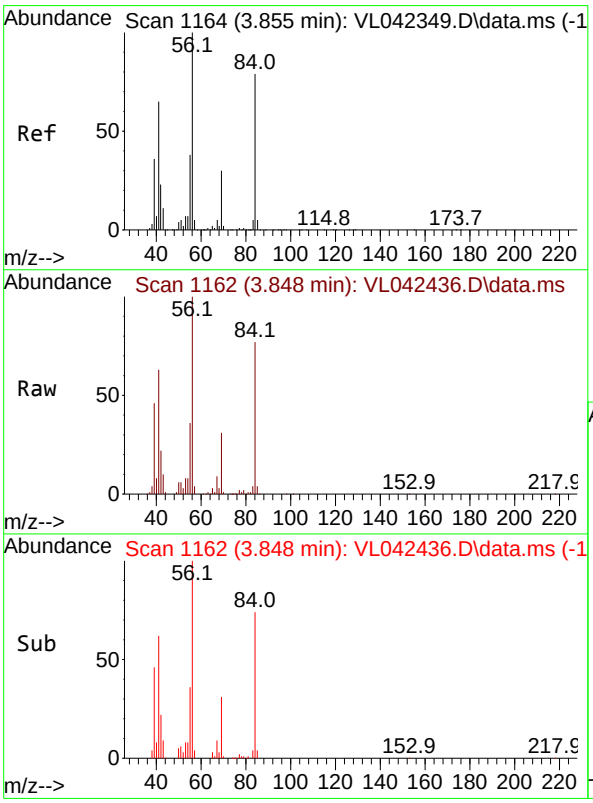
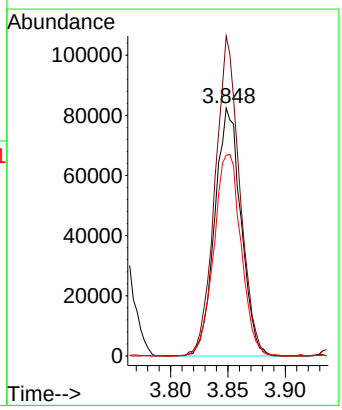
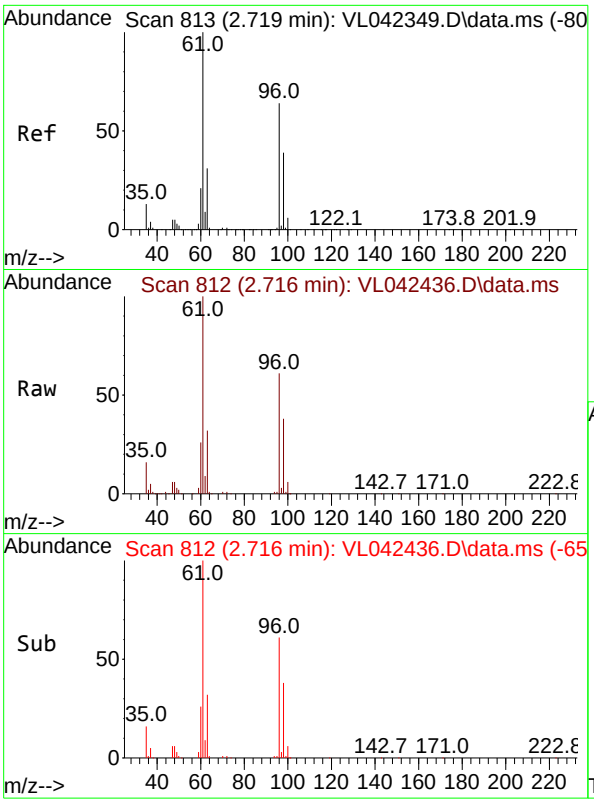



#30
Cyclohexane
Concen: 8.635 ppbv
RT: 3.848 min Scan# 1162
Delta R.T. -0.007 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 84 Resp: 130608

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 121.2 | 101.0 | 151.4 |
| 41 | 84.8 | 67.4 | 101.0 |

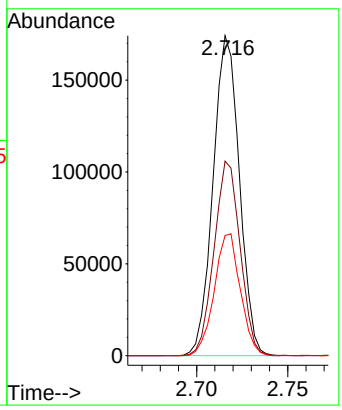





#31
cis-1,2-Dichloroethene
Concen: 9.818 ppbv
RT: 2.716 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 61 Resp: 17465

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 60.8 | 50.8 | 76.2 |
| 98 | 37.6 | 30.9 | 46.3 |

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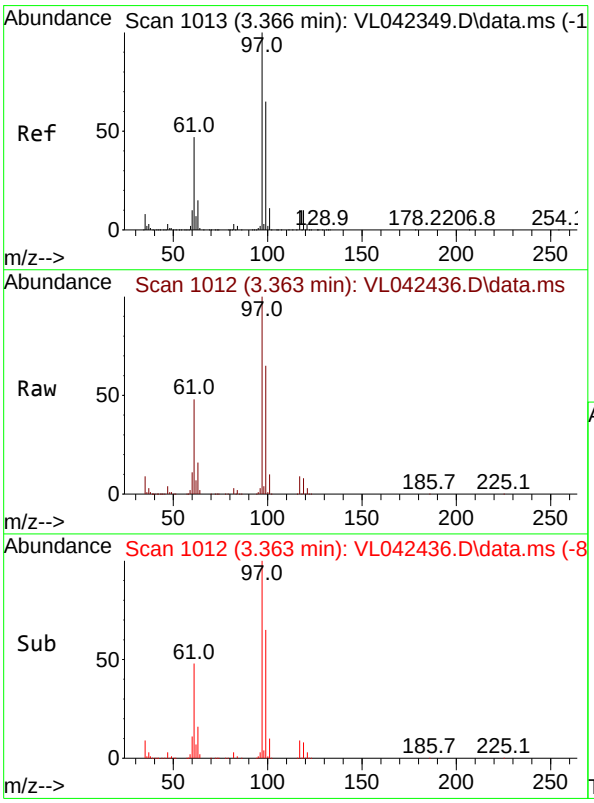
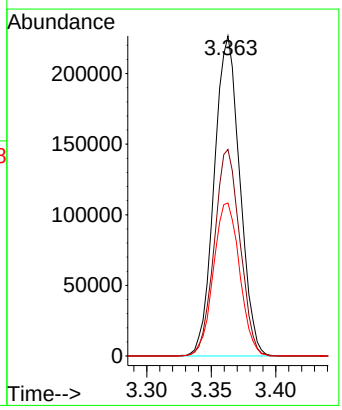
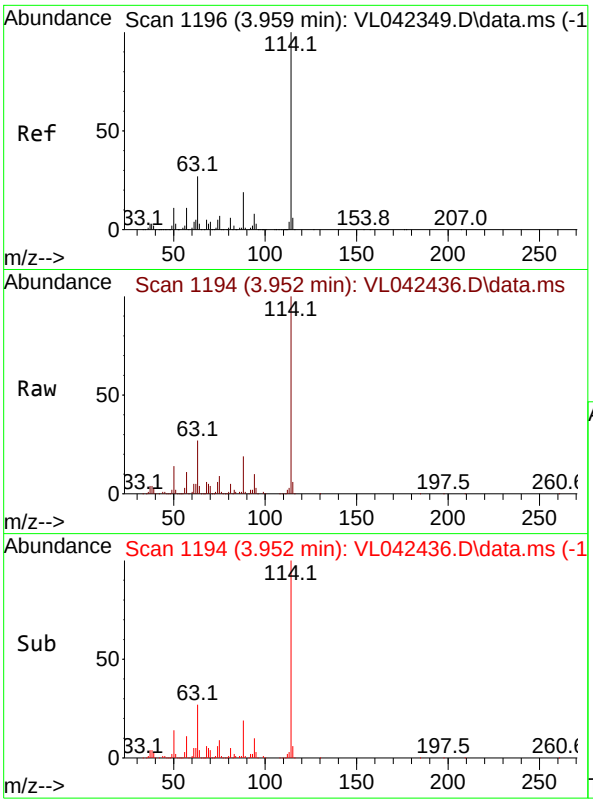



#32
1,1,1-Trichloroethane
Concen: 10.493 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 97 Resp: 312430

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.5 | 51.0 | 76.4 |
| 61 | 49.1 | 38.8 | 58.2 |

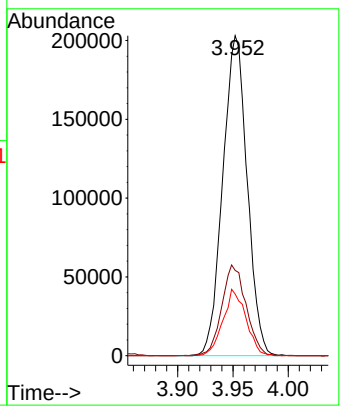





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1
Delta R.T. -0.007 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion:114 Resp: 31126

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 28.3 | 21.8 | 32.6 |
| 88 | 19.5 | 15.5 | 23.3 |

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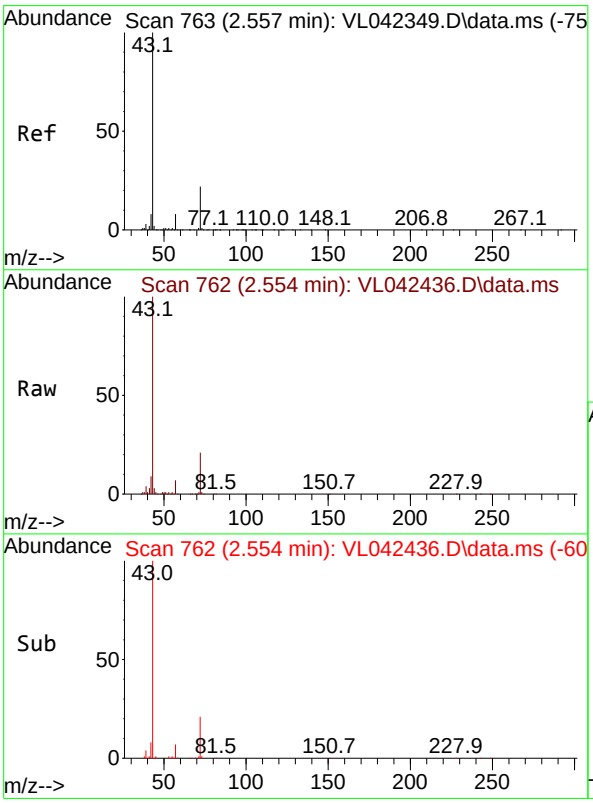
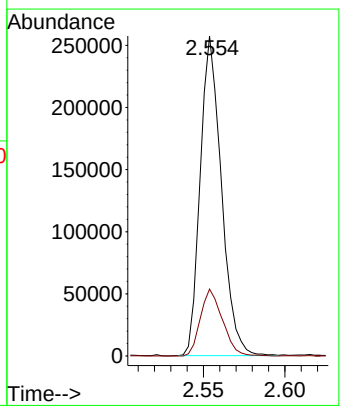
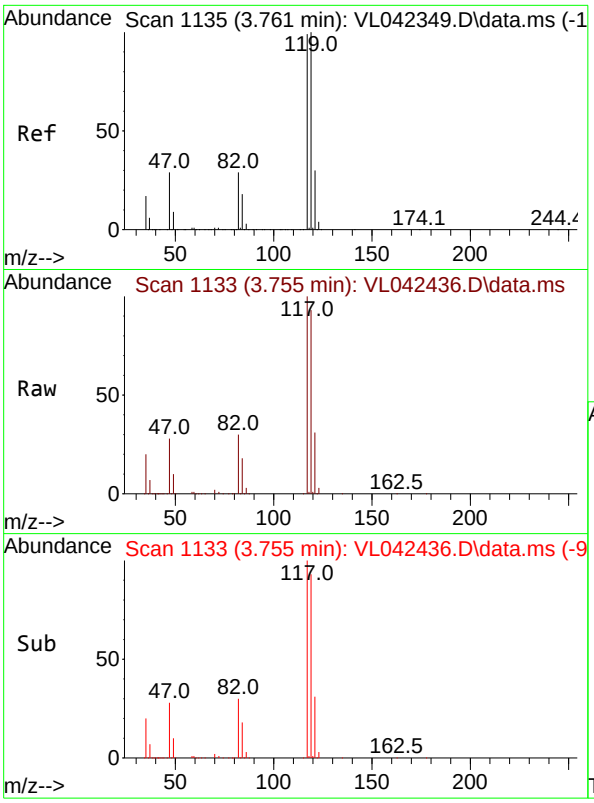



#34
2-Butanone
Concen: 9.426 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 43 Resp: 232034

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 21.8 | 18.2 | 27.2 |






#35
Carbon Tetrachloride
Concen: 11.242 ppbv
RT: 3.755 min Scan# 1
Delta R.T. -0.007 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

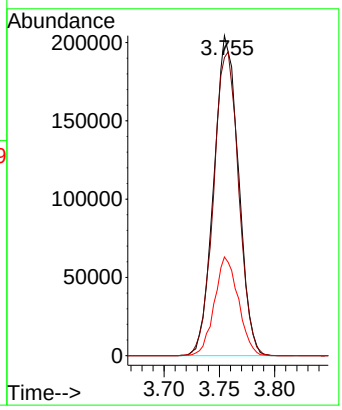
Tgt Ion:117 Resp: 31668

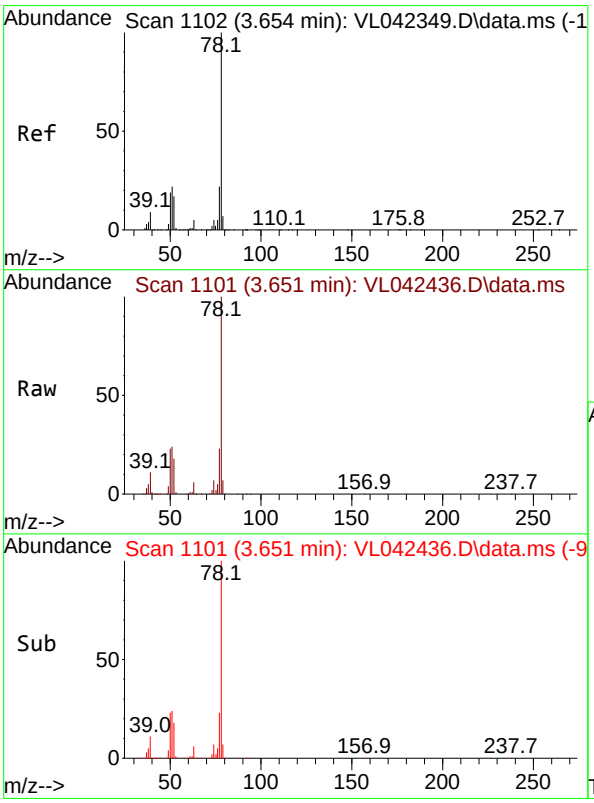
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 93.1 | 80.5 | 120.7 |
| 121 | 30.9 | 24.2 | 36.2 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

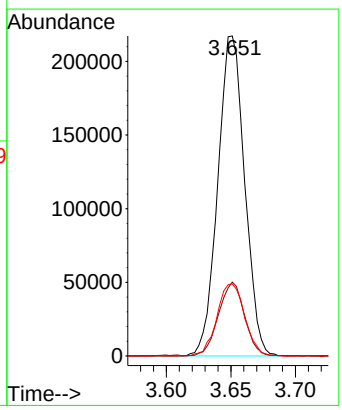


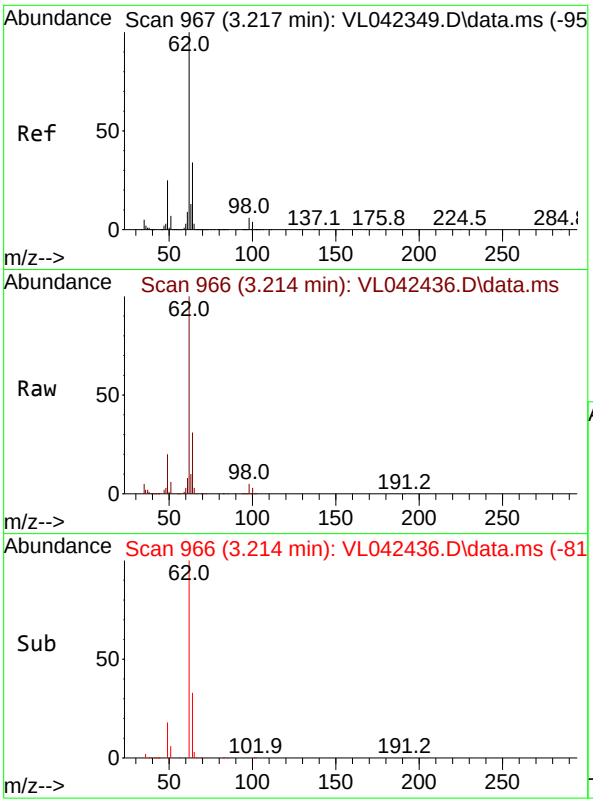




#36
Benzene
Concen: 9.367 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 78 Resp: 314493

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.1 | 17.4 | 26.0 |
| 50 | 22.6 | 15.5 | 23.3 |

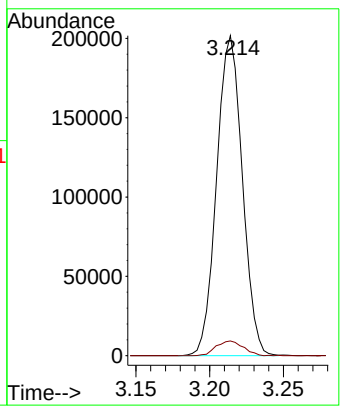





#37
1,2-Dichloroethane
Concen: 12.134 ppbv
RT: 3.214 min Scan# 9
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 62 Resp: 24451

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 4.9 | 5.1 | 7.7# |




**Instrument :**
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**ClientSampleId :**
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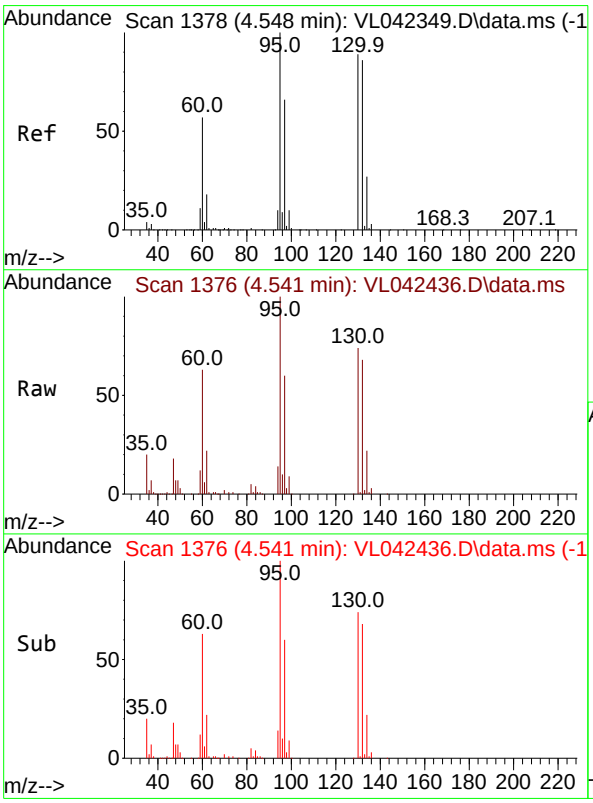
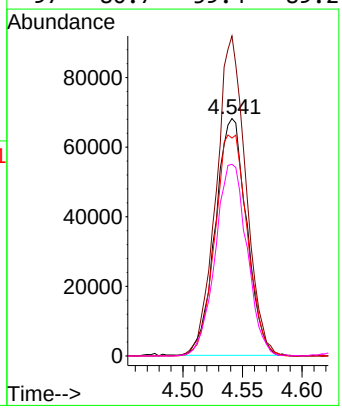
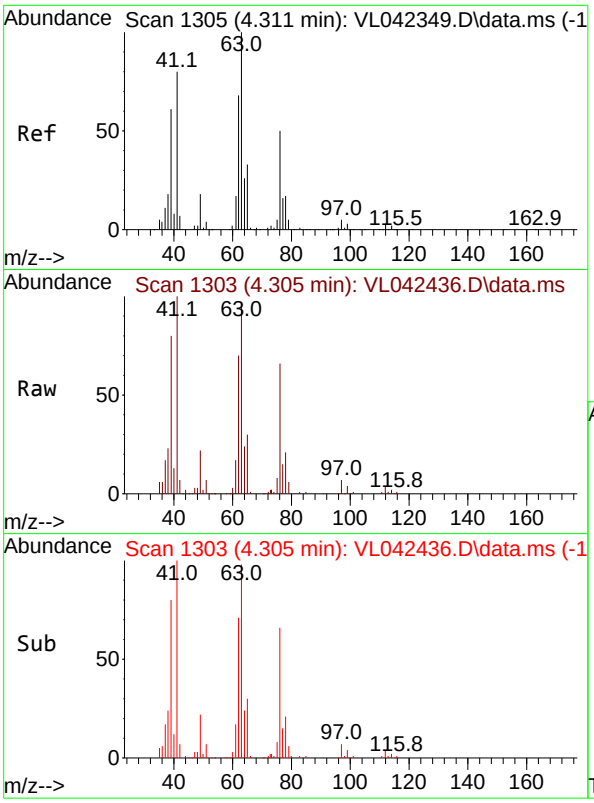



#38
Trichloroethene
Concen: 8.450 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. -0.007 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion:130 Resp: 123997

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 134.8 | 89.8 | 134.6# |
| 132 | 92.0 | 77.7 | 116.5 |
| 97 | 80.7 | 59.4 | 89.2 |

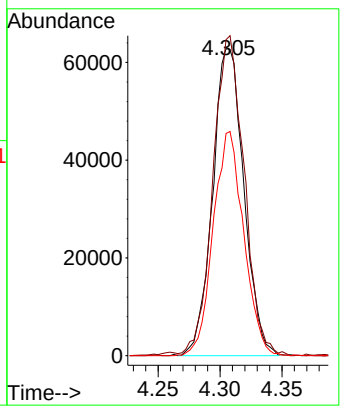





#39
1,2-Dichloropropane
Concen: 8.817 ppbv
RT: 4.305 min Scan# 1
Delta R.T. -0.007 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 63 Resp: 11031

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 102.2 | 64.2 | 96.2# |
| 62 | 72.1 | 54.3 | 81.5 |




**Instrument :**
MSVOA_L
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VSTDCCC010

**Manual Integrations**
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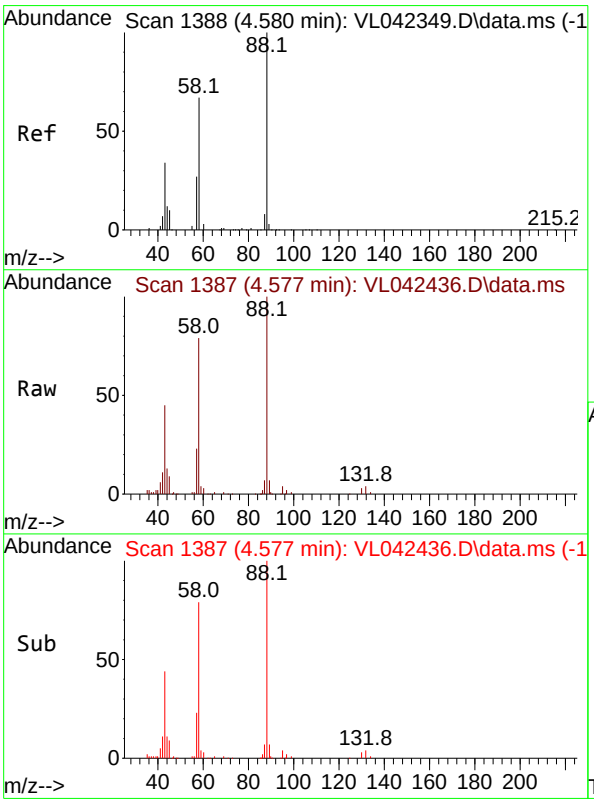
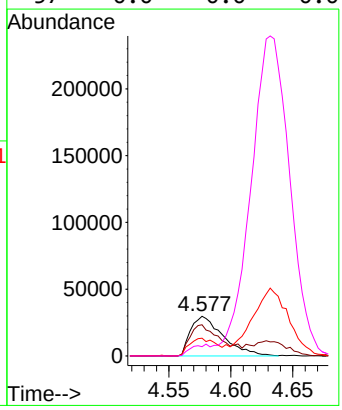
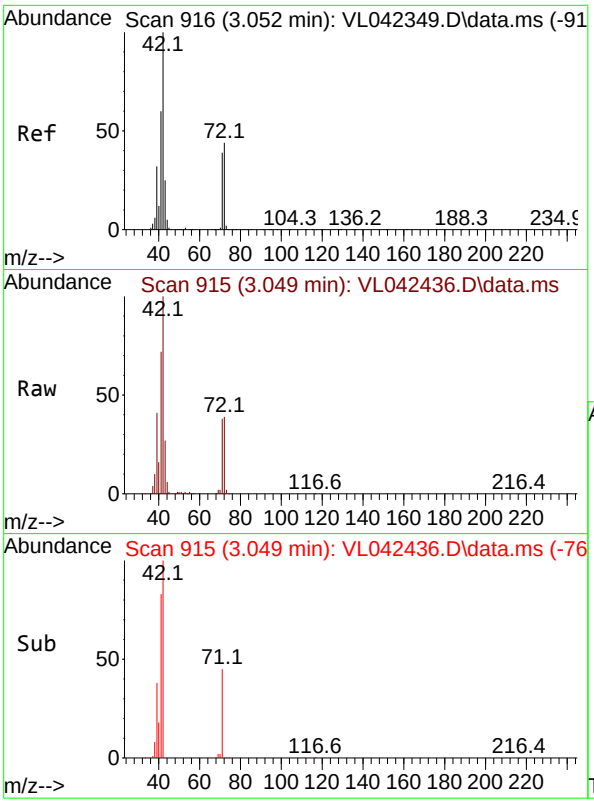



#40
1,4-Dioxane
Concen: 7.907 ppbv
RT: 4.577 min Scan# 1387
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 88 Resp: 54364

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 81.3 | 61.4 | 92.0 |
| 43 | 40.1 | 23.2 | 34.8# |
| 57 | 0.0 | 0.0 | 0.0 |

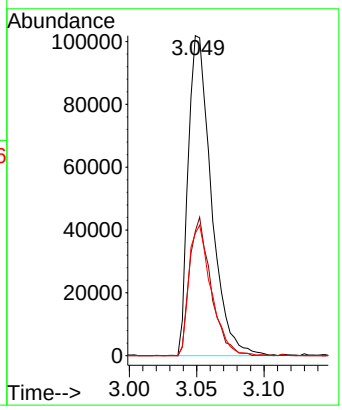





#41
Tetrahydrofuran
Concen: 8.479 ppbv
RT: 3.049 min Scan# 9
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 42 Resp: 12170

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 40.2 | 32.3 | 48.5 |
| 71 | 39.5 | 31.4 | 47.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

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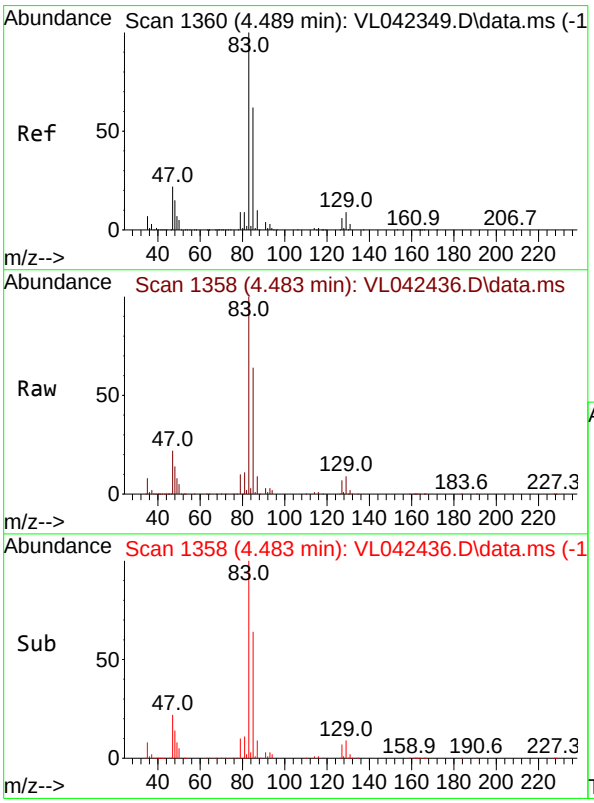
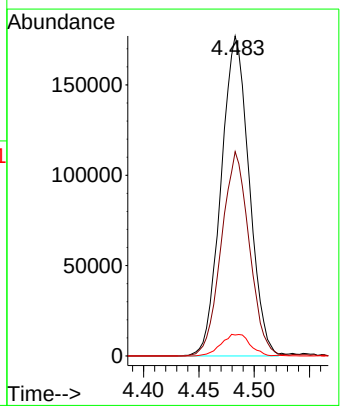
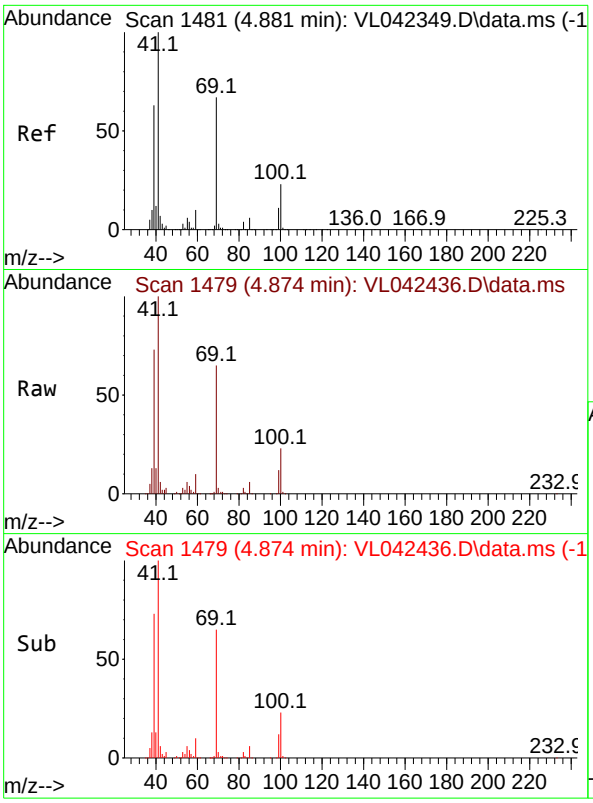



#42
Bromodichloromethane
Concen: 11.127 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. -0.007 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 83 Resp: 312029

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.8 | 49.7 | 74.5 |
| 127 | 6.6 | 5.1 | 7.7 |

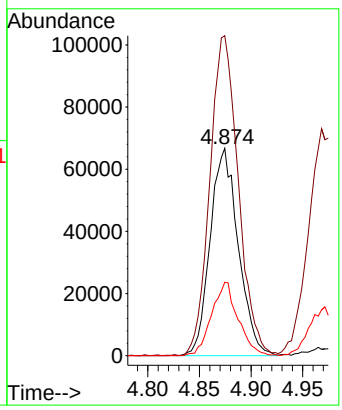





#43
Methyl Methacrylate
Concen: 8.367 ppbv
RT: 4.874 min Scan# 14
Delta R.T. -0.007 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 69 Resp: 12659

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 156.3 | 118.6 | 177.8 |
| 100 | 33.3 | 28.2 | 42.2 |

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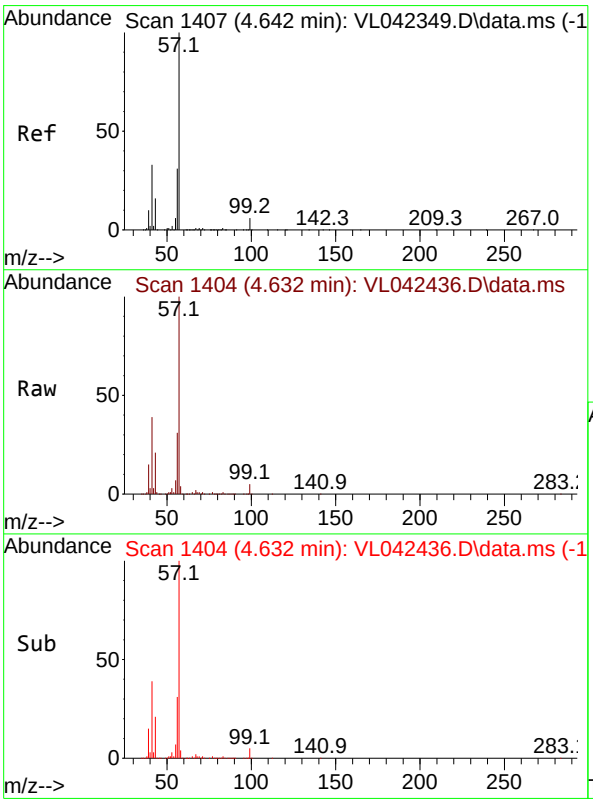
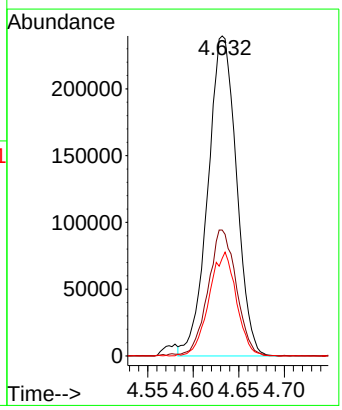
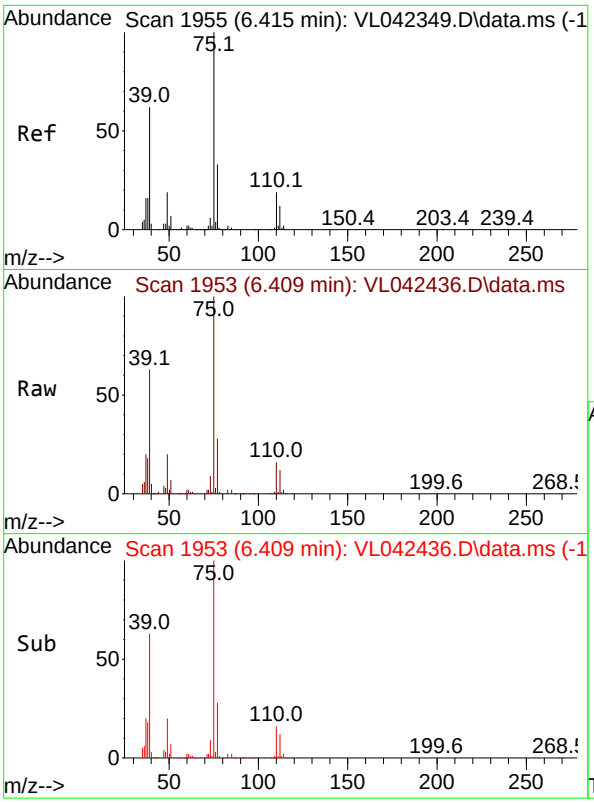



#44
2,2,4-Trimethylpentane
Concen: 9.010 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. -0.010 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 57 Resp: 522427

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 39.2 | 27.2 | 40.8 |
| 56 | 31.1 | 25.7 | 38.5 |

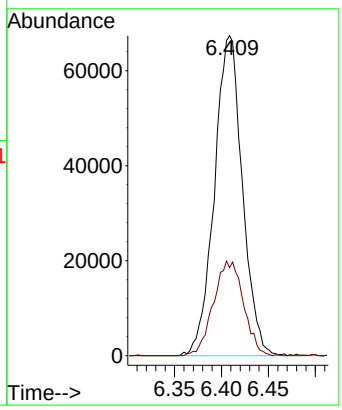





#45
t-1,3-Dichloropropene
Concen: 9.026 ppbv
RT: 6.409 min Scan# 1
Delta R.T. -0.007 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 75 Resp: 13950

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 27.5 | 27.0 | 40.6 |




**Instrument :**
MSVOA_L
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VSTDCCC010

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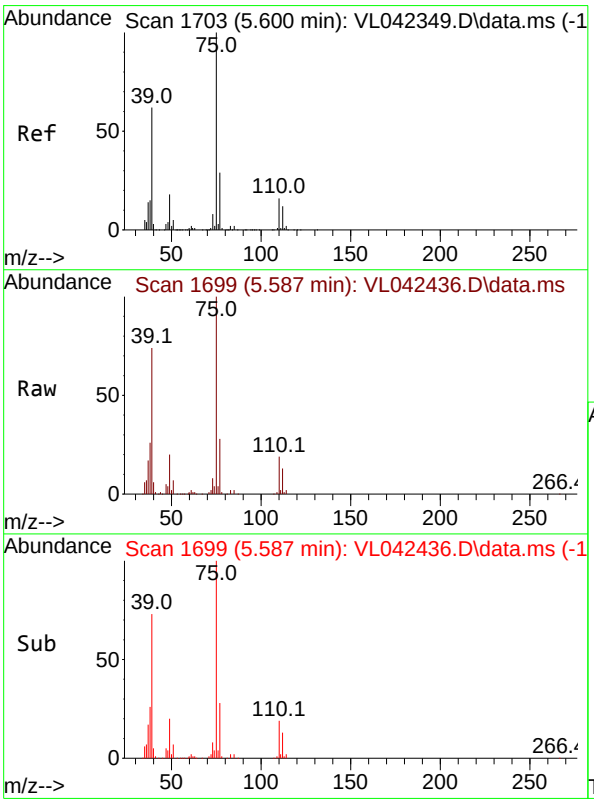
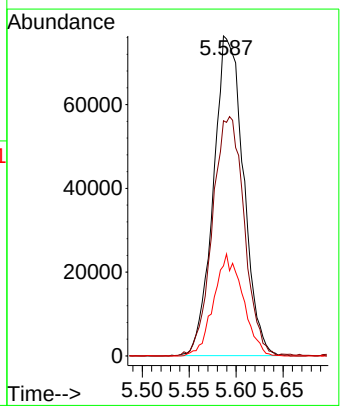
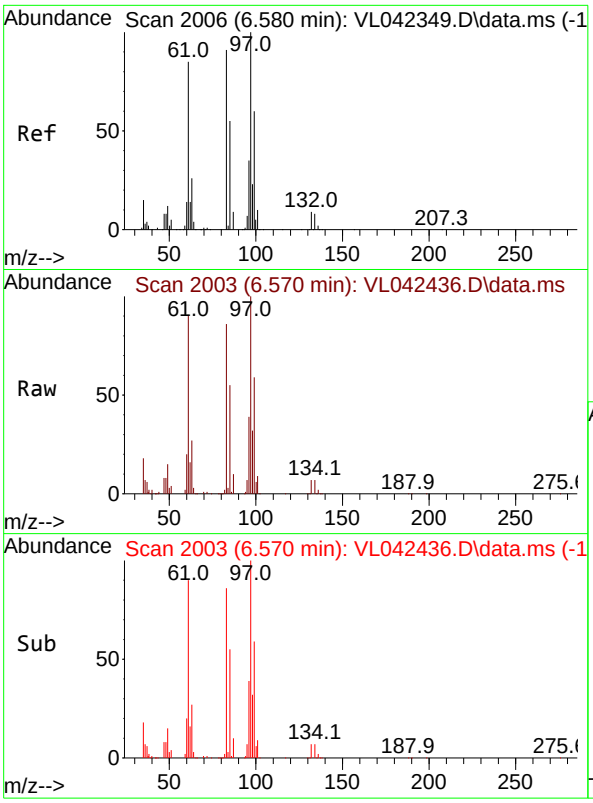



#46
cis-1,3-Dichloropropene
Concen: 8.953 ppbv
RT: 5.587 min Scan# 1699
Delta R.T. -0.013 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 75 Resp: 169355

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 39 | 73.4 | 50.0 | 75.0 |
| 77 | 28.2 | 23.0 | 34.6 |

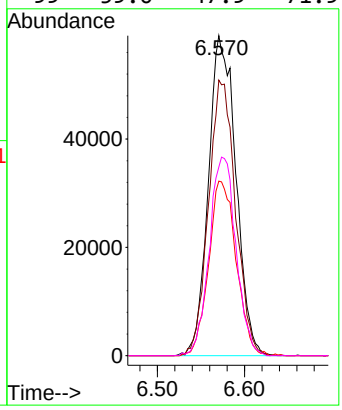





#47
1,1,2-Trichloroethane
Concen: 10.138 ppbv m
RT: 6.570 min Scan# 2
Delta R.T. -0.010 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 97 Resp: 12922

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 86.1 | 72.8 | 109.2 |
| 85 | 54.6 | 44.2 | 66.4 |
| 99 | 59.0 | 47.9 | 71.9 |




**Instrument :**
MSVOA_L
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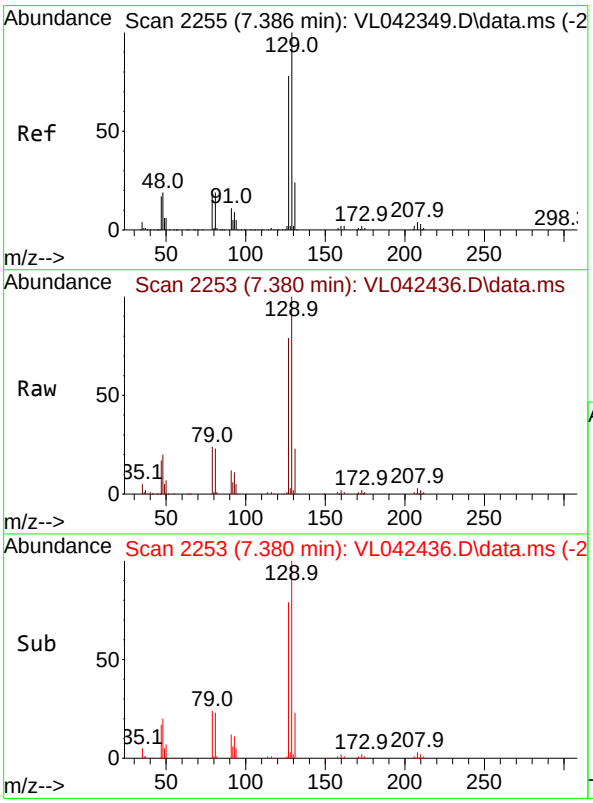
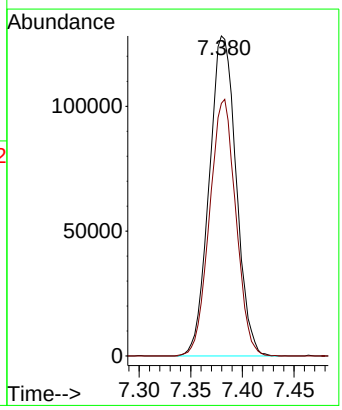
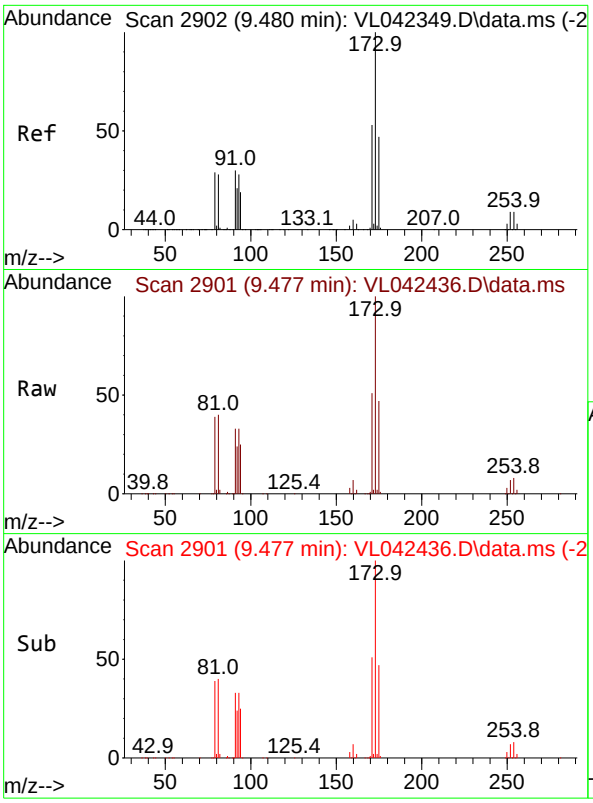



#48
Dibromochloromethane
Concen: 10.339 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. -0.007 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion:129 Resp: 232818

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.1 | 39.1 | 117.3 |

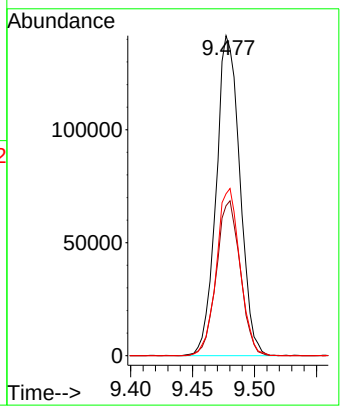





#49
Bromoform
Concen: 9.593 ppbv
RT: 9.477 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion:173 Resp: 18889

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.7 | 38.2 | 57.2 |
| 171 | 52.0 | 40.9 | 61.3 |




**Instrument :**
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VSTDCCC010

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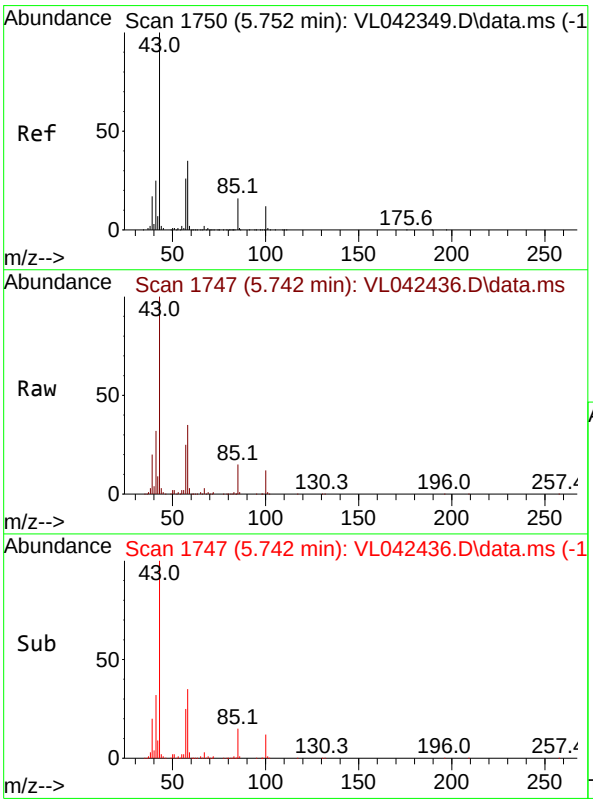
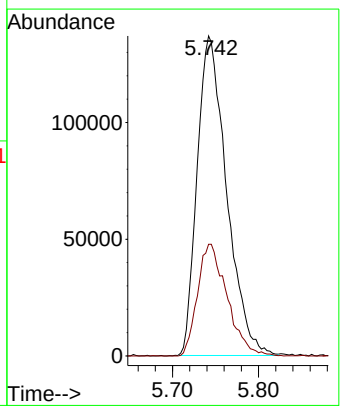
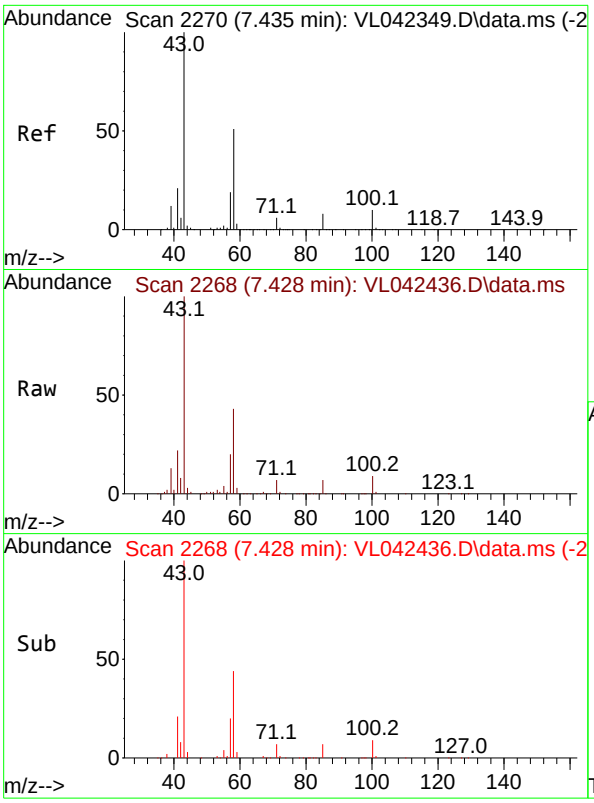



#50
4-Methyl-2-Pentanone
Concen: 7.965 ppbv
RT: 5.742 min Scan# 1747
Delta R.T. -0.010 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 43 Resp: 325855

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 35.1 | 28.6 | 43.0 |






#51
2-Hexanone
Concen: 7.357 ppbv
RT: 7.428 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 43 Resp: 26991

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 45.8 | 40.2 | 60.4 |
| 98 | 0.4 | 0.1 | 0.1# |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
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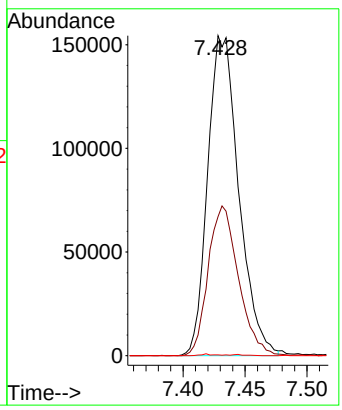
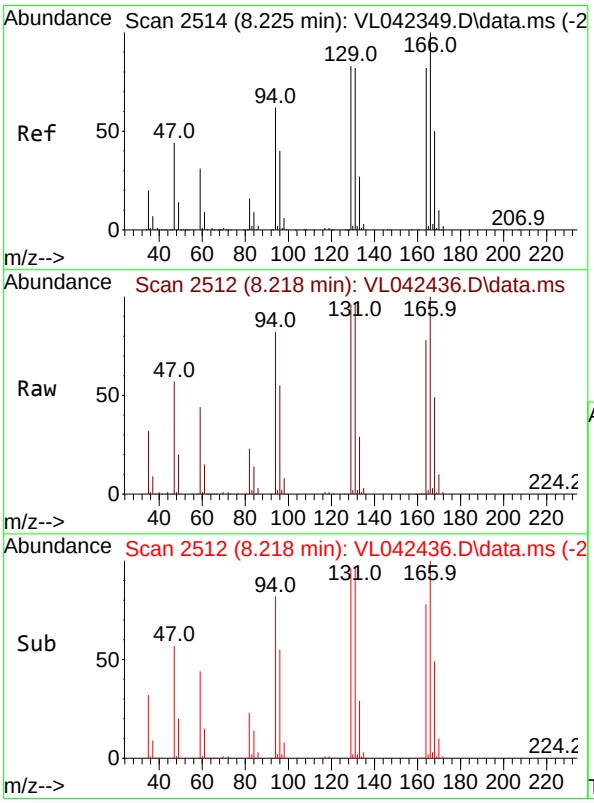
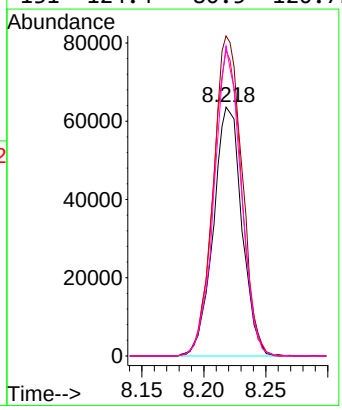


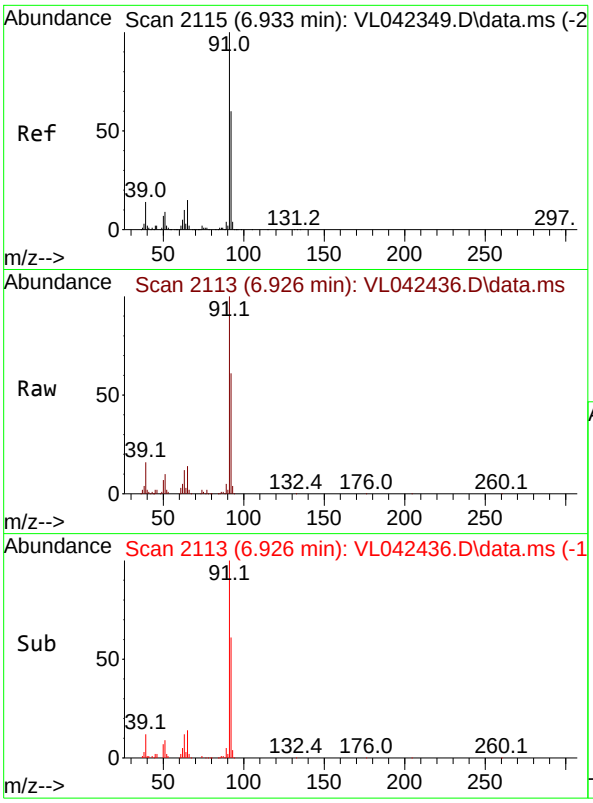




#52
Tetrachloroethene
Concen: 7.833 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. -0.007 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion:164 Resp: 101642

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 128.6 | 98.2 | 147.2 |
| 129 | 122.8 | 81.8 | 122.8# |
| 131 | 124.4 | 80.5 | 120.7# |

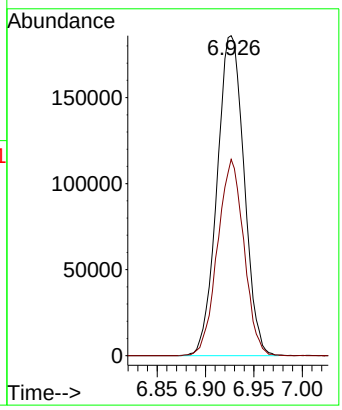





#53
Toluene
Concen: 8.968 ppbv
RT: 6.926 min Scan# 21
Delta R.T. -0.007 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 91 Resp: 36131

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 59.9 | 48.2 | 72.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
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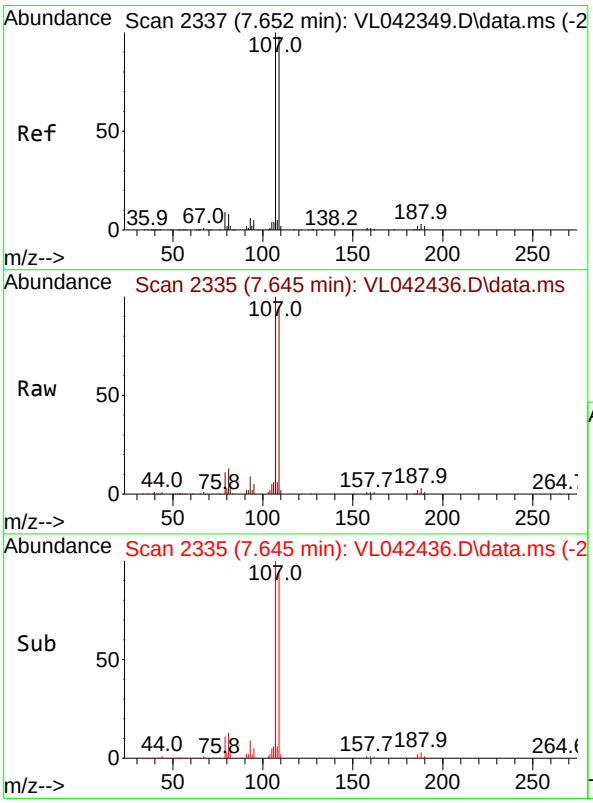
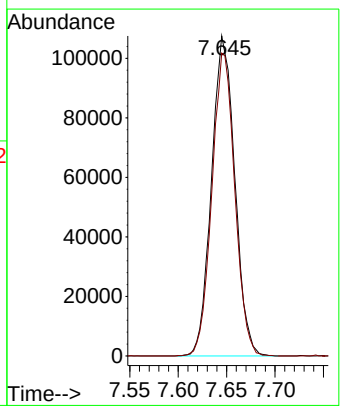
Supervised By :Mahesh Dadoda 04/30/2025

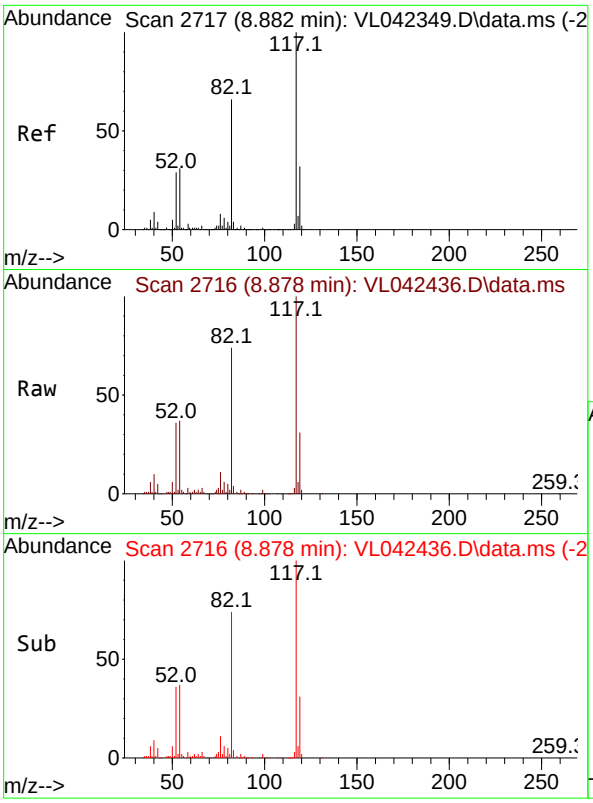



#54
1,2-Dibromoethane
Concen: 9.861 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.007 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion:107 Resp: 179895

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.7 | 78.2 | 117.4 |

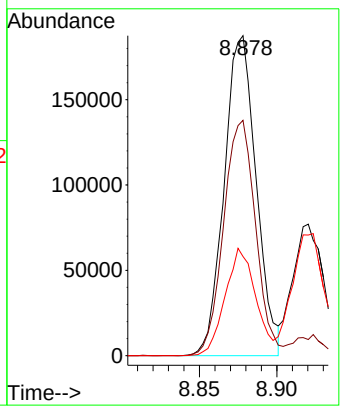





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion:117 Resp: 26998

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 79.6 | 57.8 | 86.6 |
| 119 | 32.9 | 25.2 | 37.8 |




**Instrument :**
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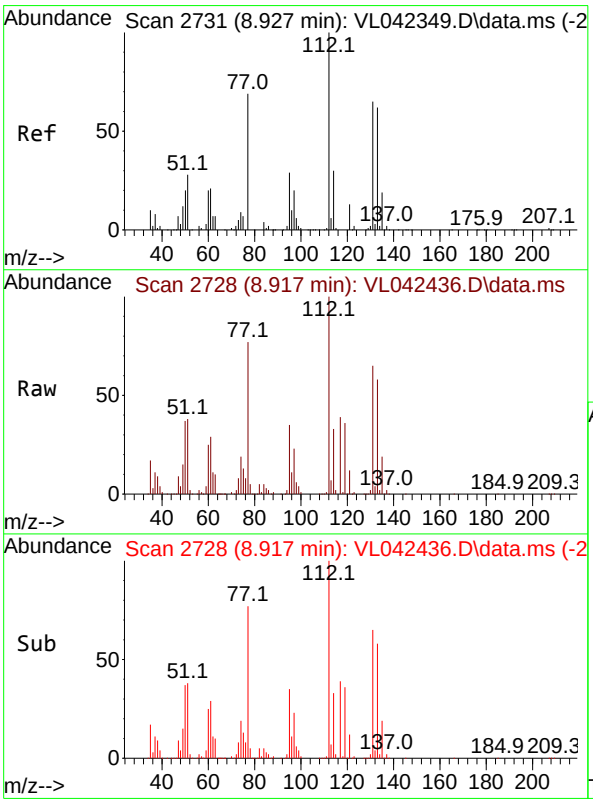
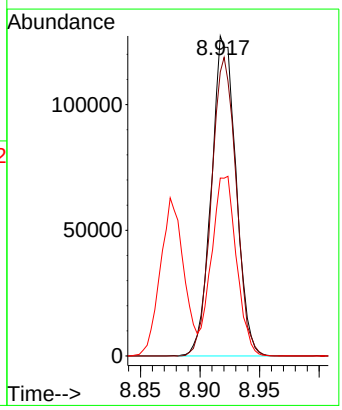
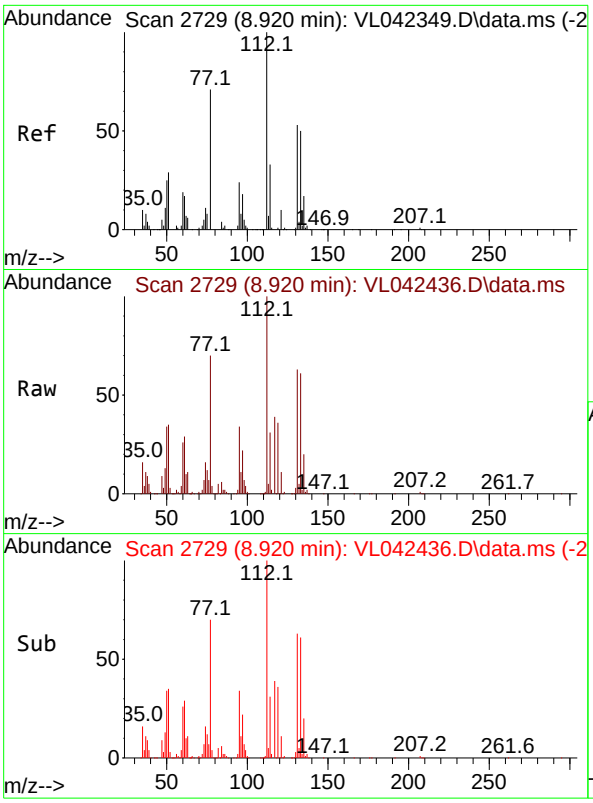



#56
1,1,1,2-Tetrachloroethane
Concen: 11.184 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. -0.010 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion:131 Resp: 182759

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 93.9 | 78.3 | 117.5 |
| 119 | 55.8 | 48.7 | 73.1 |

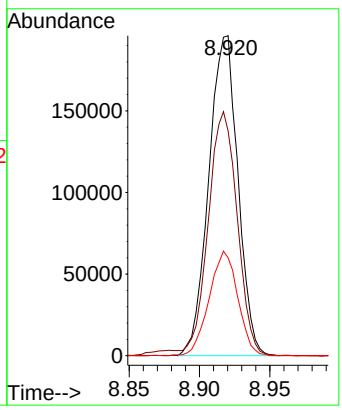





#57
Chlorobenzene
Concen: 10.086 ppbv
RT: 8.920 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion:112 Resp: 28321

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 70.2 | 57.8 | 86.6 |
| 114 | 30.6 | 29.3 | 35.9 |

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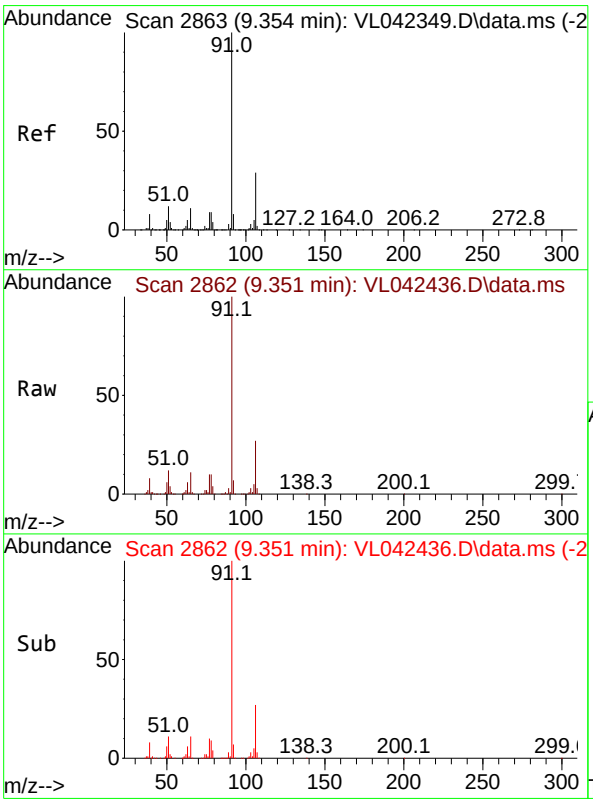
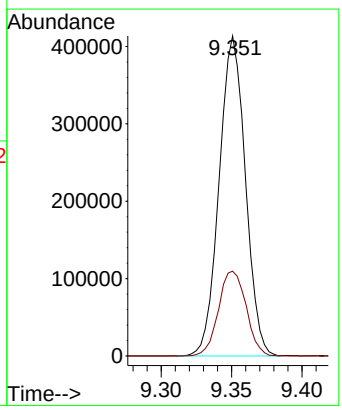
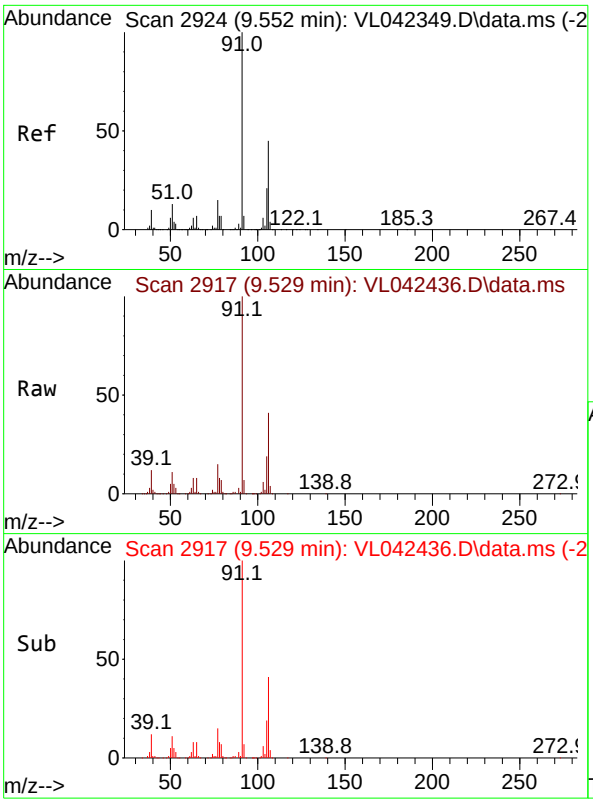



#58
Ethyl Benzene
Concen: 10.032 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 91 Resp: 536634

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 26.5 | 23.0 | 34.4 |






#59
m/p-Xylene
Concen: 21.110 ppbv m
RT: 9.529 min Scan# 2
Delta R.T. -0.023 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 91 Resp: 90970

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 41.9 | 35.4 | 53.2 |

**Instrument :**
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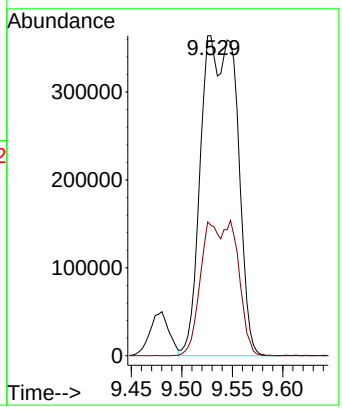
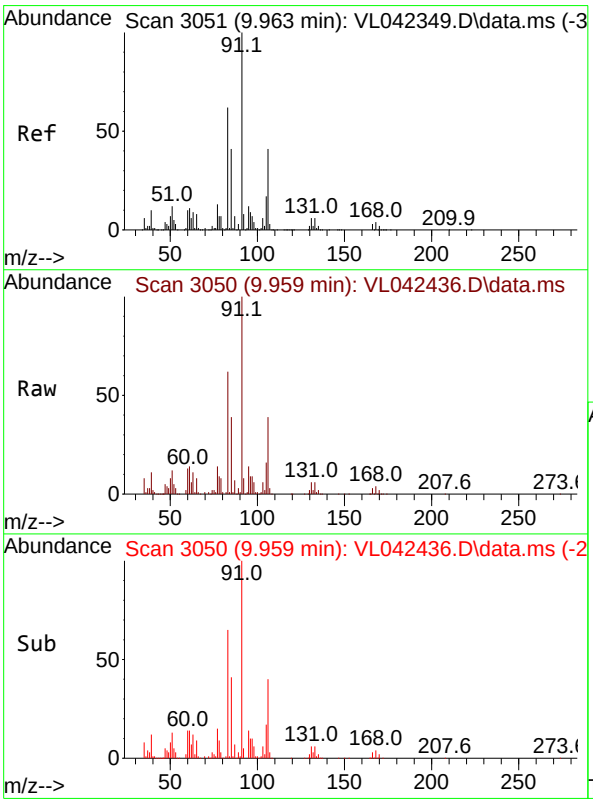
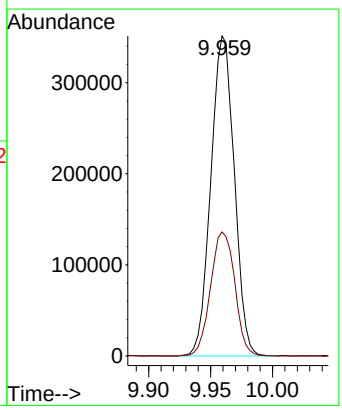


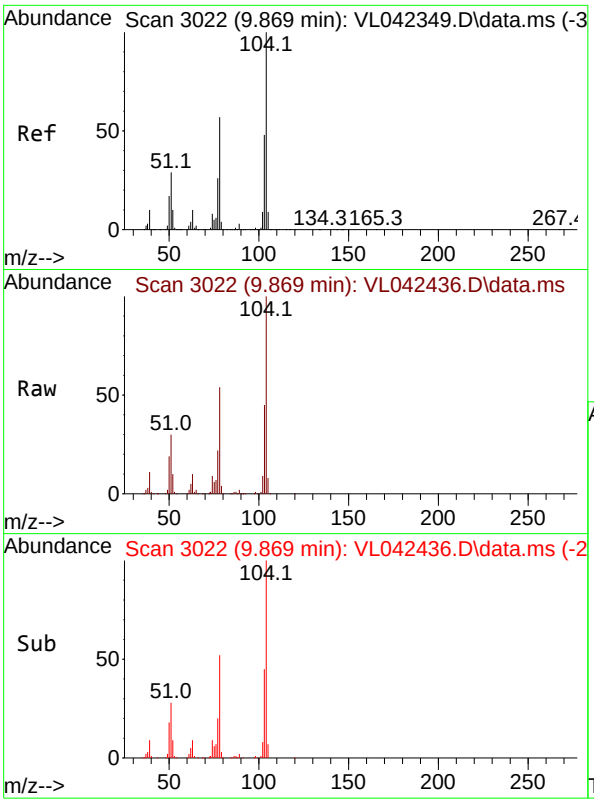




#60
o-Xylene
Concen: 10.686 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 91 Resp: 463713

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 40.0 | 21.1 | 63.4 |

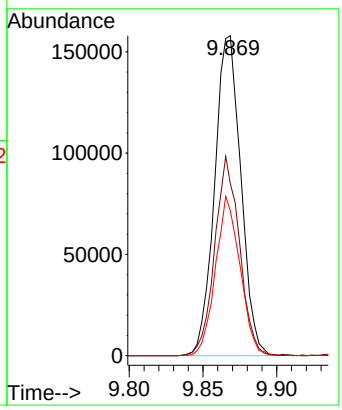





#61
Styrene
Concen: 9.454 ppbv
RT: 9.869 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion:104 Resp: 19581

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 58.5 | 44.6 | 66.8 |
| 103 | 46.7 | 37.4 | 56.0 |

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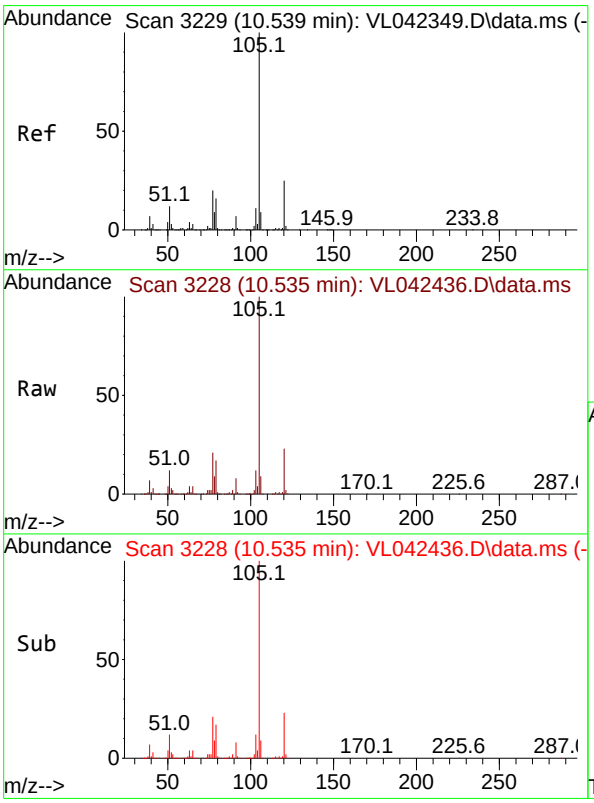
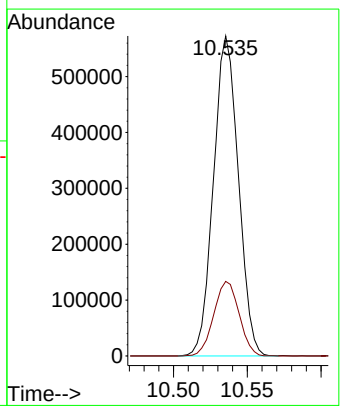
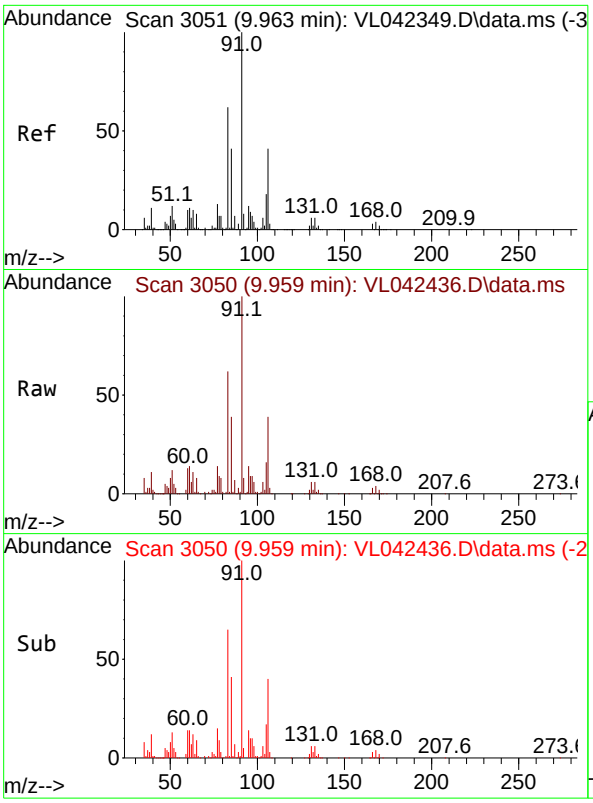



#62
Isopropylbenzene
Concen: 10.558 ppbv
RT: 10.535 min Scan# 3228
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion:105 Resp: 672630

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 23.7 | 19.8 | 29.8 |






#63
1,1,2,2-Tetrachloroethane
Concen: 9.699 ppbv
RT: 9.959 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 83 Resp: 27274

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.8 | 4.5 | 13.7 |
| 85 | 65.0 | 32.4 | 97.0 |

**Instrument :**
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VSTDCCC010

**Manual Integrations**
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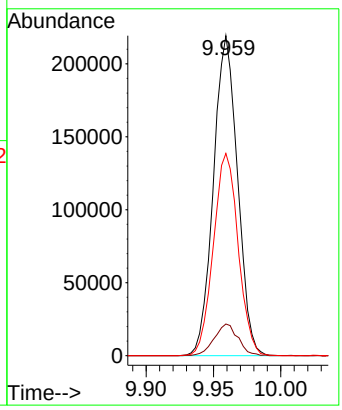
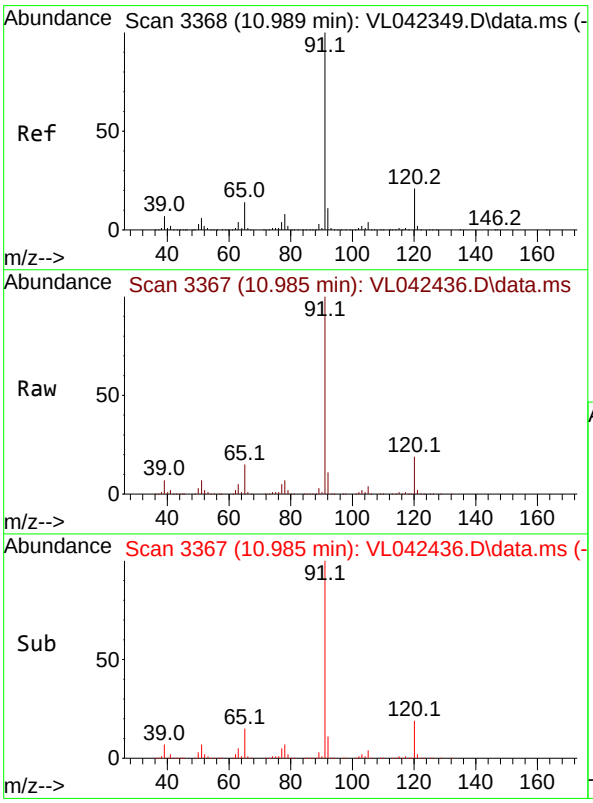
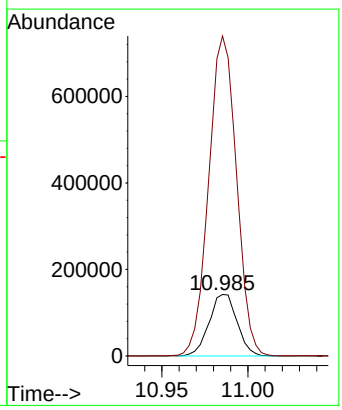


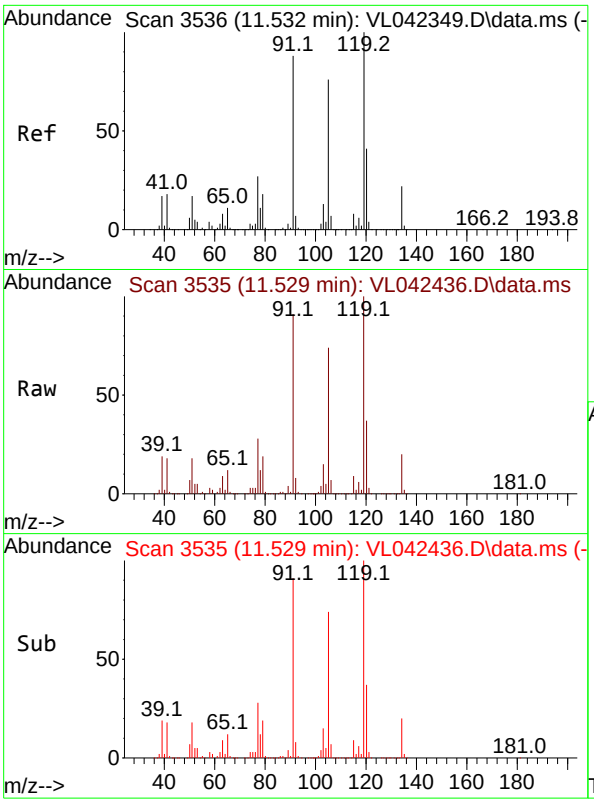




#64
n-propylbenzene
Concen: 10.037 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion:120 Resp: 160736

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 518.7 | 392.4 | 588.6 |

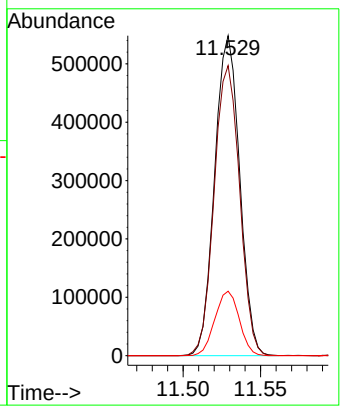





#65
tert-Butylbenzene
Concen: 10.535 ppbv
RT: 11.529 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion:119 Resp: 61687

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 92.2 | 74.6 | 111.8 |
| 134 | 19.6 | 18.8 | 28.2 |

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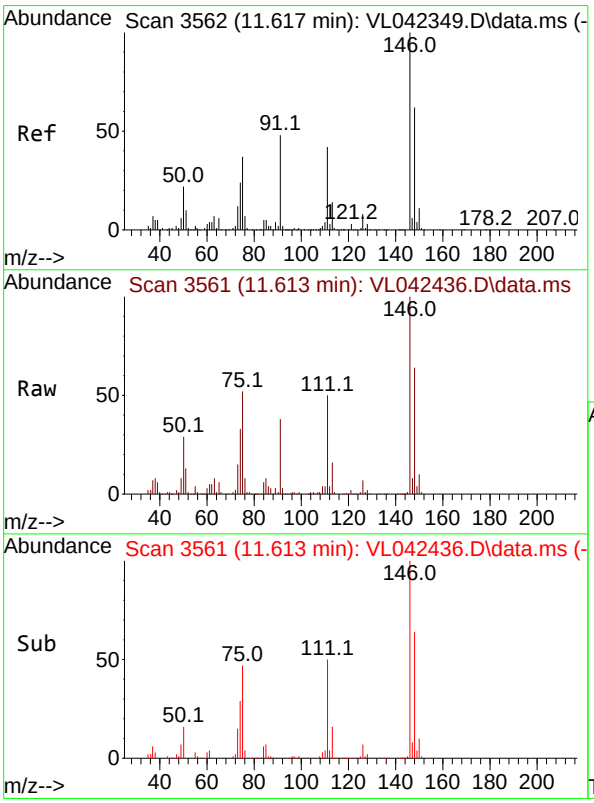
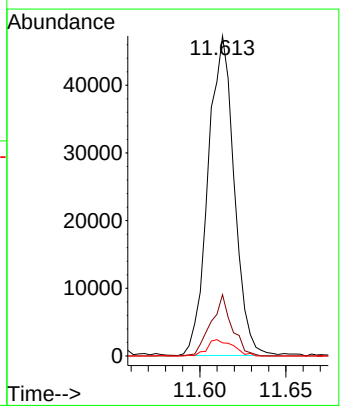
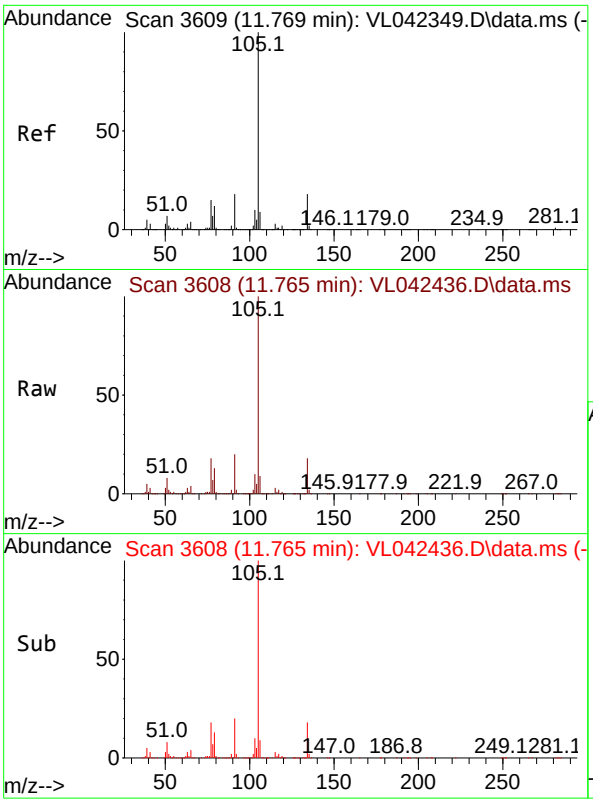



#66
Benzyl Chloride
Concen: 7.746 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 91 Resp: 49841

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 15.4 | 11.8 | 17.6 |
| 128 | 5.1 | 4.5 | 6.7 |

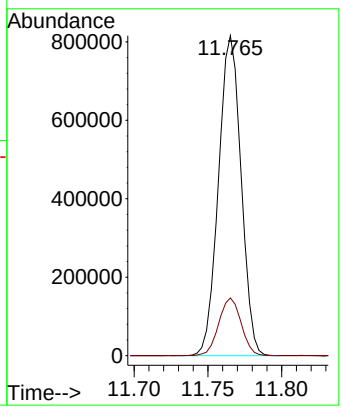





#67
sec-Butylbenzene
Concen: 10.677 ppbv
RT: 11.765 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion:105 Resp: 86959

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 17.9 | 14.6 | 21.8 |

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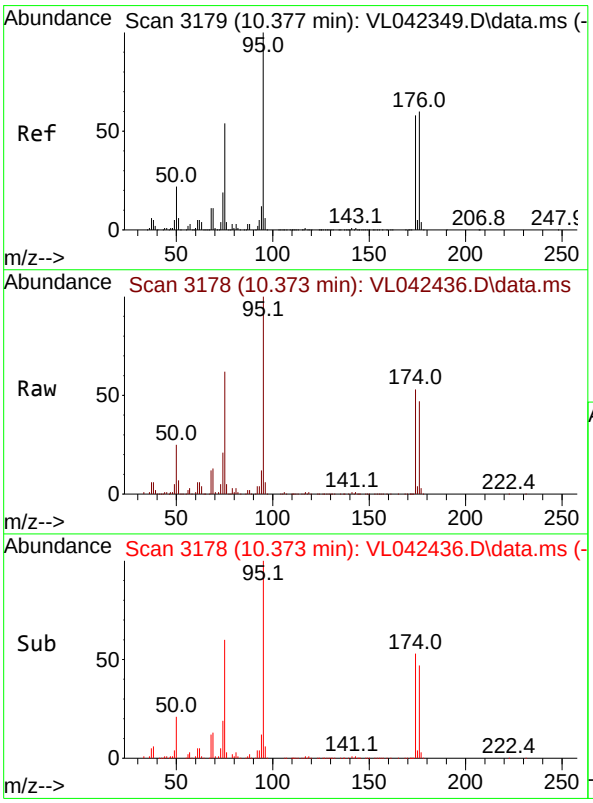
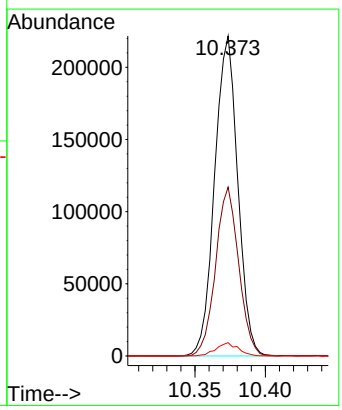
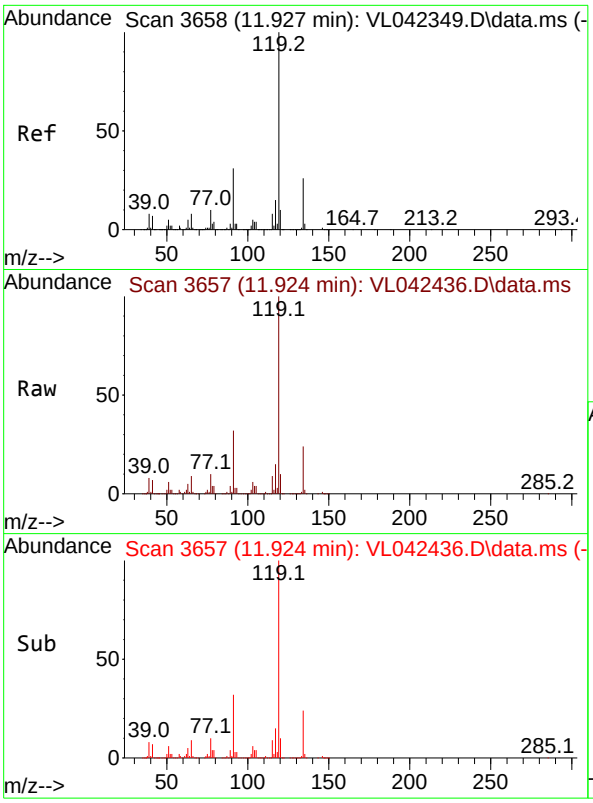



#68
1-Bromo-4-Fluorobenzene
Concen: 11.413 ppbv
RT: 10.373 min Scan# 3178
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 95 Resp: 253216

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 52.8 | 48.5 | 72.7 |
| 175 | 4.0 | 3.7 | 5.5 |

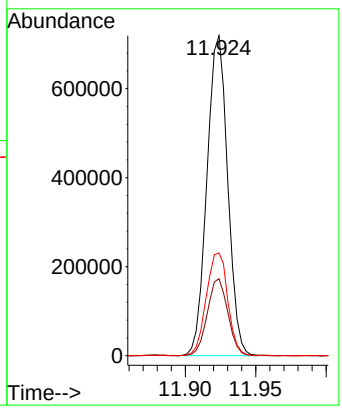





#69
p-Isopropyltoluene
Concen: 10.442 ppbv
RT: 11.924 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion:119 Resp: 73886

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 23.9 | 20.0 | 30.0 |
| 91 | 33.5 | 24.4 | 36.6 |

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MSVOA_L
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VSTDCCC010

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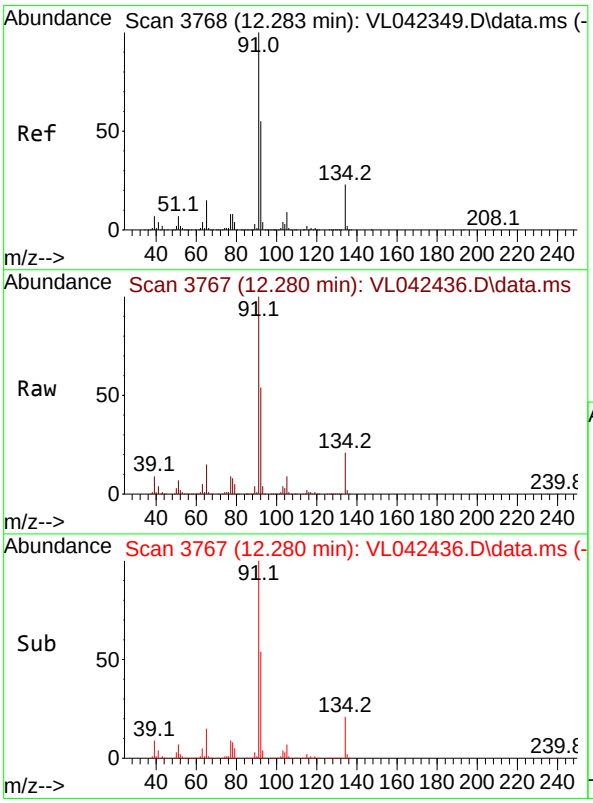
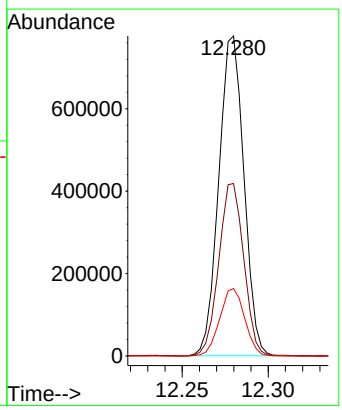
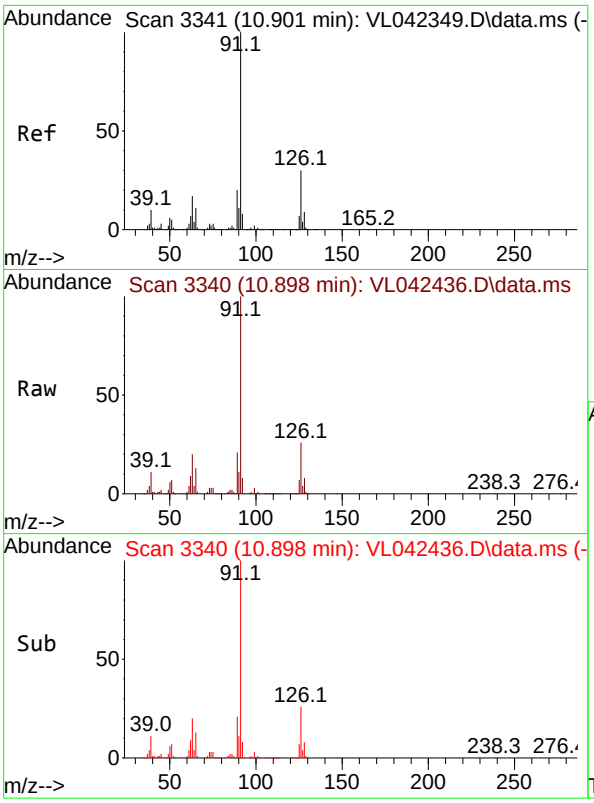



#70
n-Butylbenzene
Concen: 10.688 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 91 Resp: 787717

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.9 | 44.2 | 66.4 |
| 134 | 21.0 | 18.2 | 27.4 |

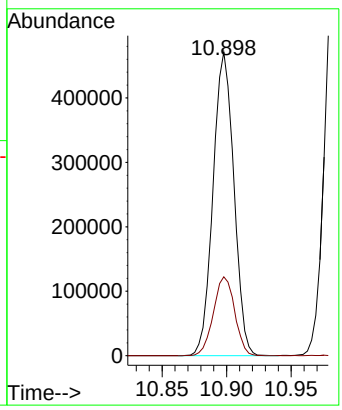





#71
2-Chlorotoluene
Concen: 10.571 ppbv
RT: 10.898 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 91 Resp: 52820

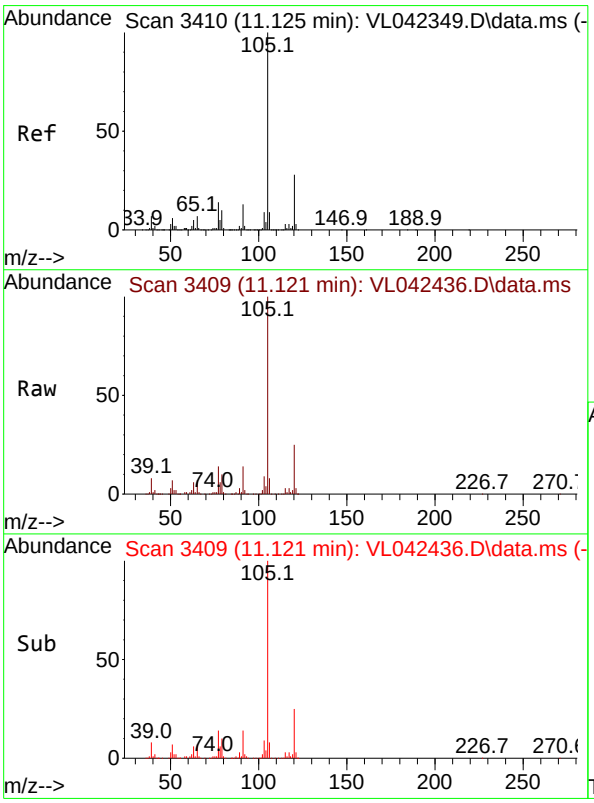
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 26.5 | 11.4 | 45.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
**APPROVED**

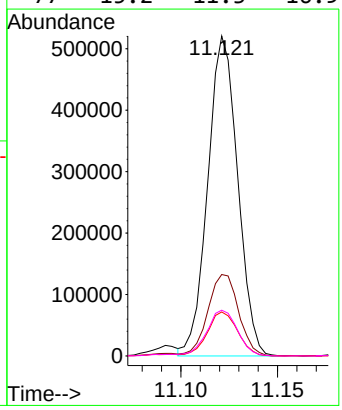
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

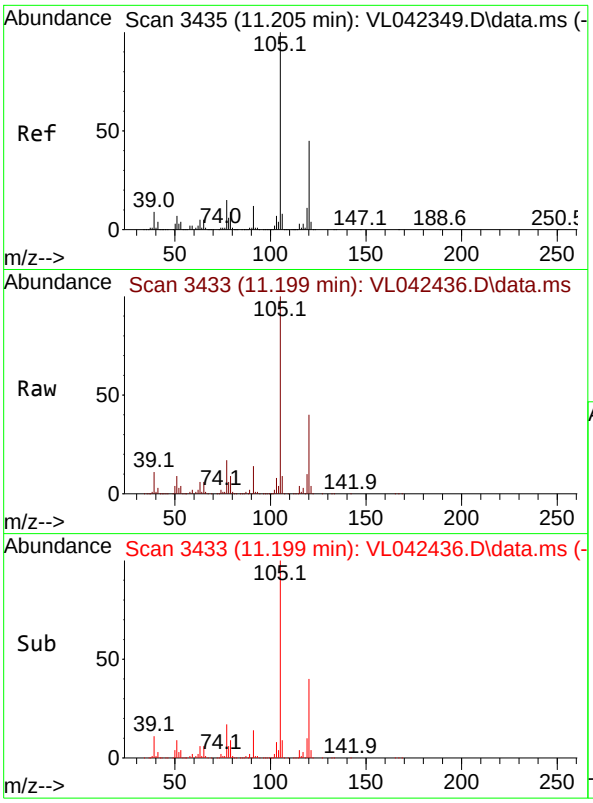



#72
4-Ethyltoluene
Concen: 10.542 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion:105 Resp: 559285

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 27.0 | 23.2 | 34.8 |
| 91 | 14.5 | 10.4 | 15.6 |
| 77 | 15.2 | 11.3 | 16.9 |

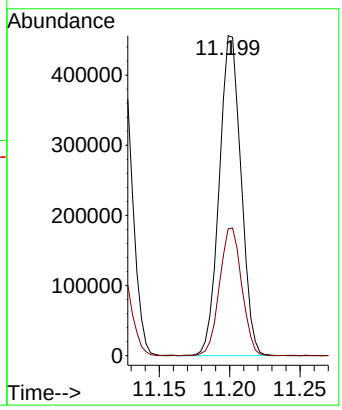





#73
1,3,5-Trimethylbenzene
Concen: 10.546 ppbv
RT: 11.199 min Scan# 34
Delta R.T. -0.007 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion:105 Resp: 49394

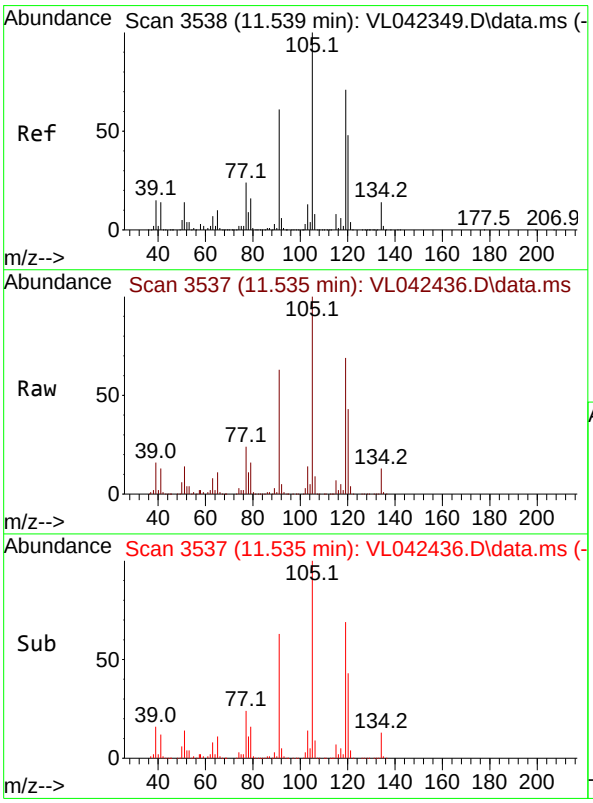
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 39.6 | 35.6 | 53.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
**APPROVED**

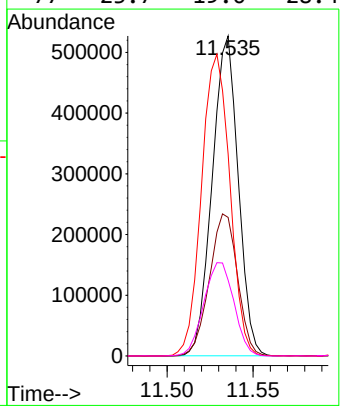
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

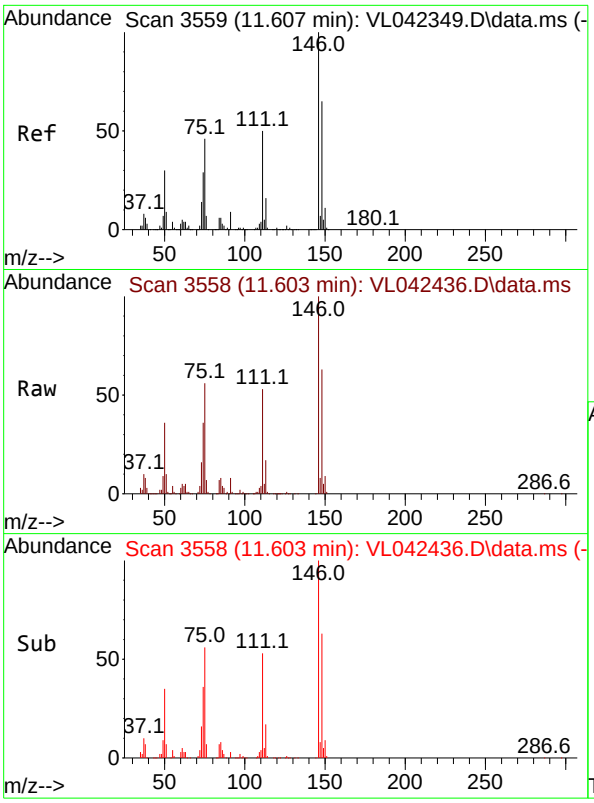



#74
1,2,4-Trimethylbenzene
Concen: 10.130 ppbv
RT: 11.535 min Scan# 3537
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion:105 Resp: 554136

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 43.3 | 38.1 | 57.1 |
| 91 | 63.1 | 48.8 | 73.2 |
| 77 | 23.7 | 19.0 | 28.4 |

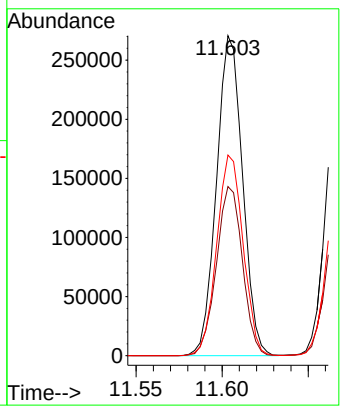





#75
1,3-Dichlorobenzene
Concen: 10.024 ppbv
RT: 11.603 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion:146 Resp: 28502

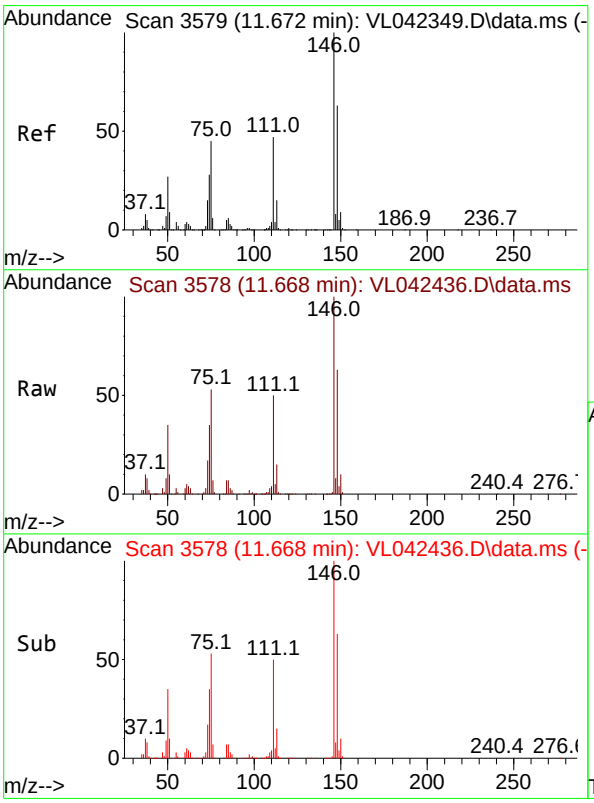
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 52.9 | 24.3 | 72.8 |
| 148 | 63.6 | 31.6 | 94.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
**APPROVED**

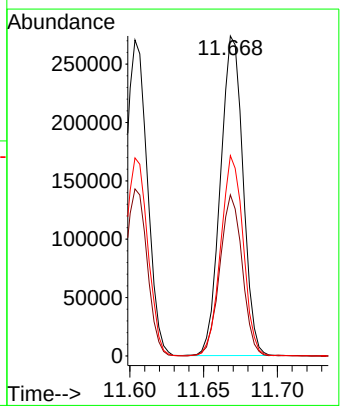
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

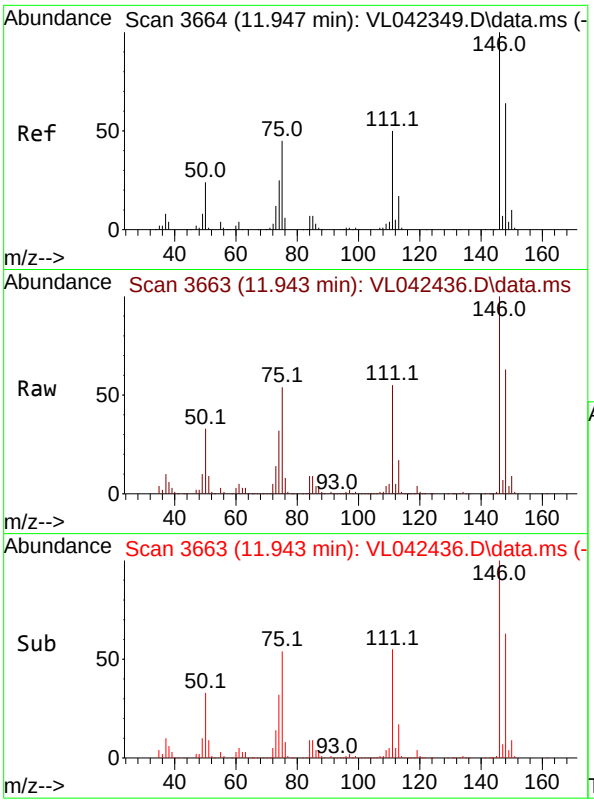



#76
1,4-Dichlorobenzene
Concen: 10.210 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion:146 Resp: 291795

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 50.1 | 24.2 | 72.6 |
| 148 | 62.4 | 32.1 | 96.5 |

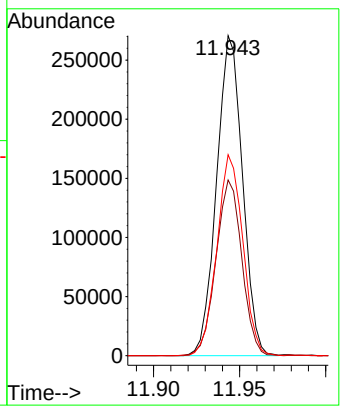





#77
1,2-Dichlorobenzene
Concen: 10.261 ppbv
RT: 11.943 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion:146 Resp: 28370

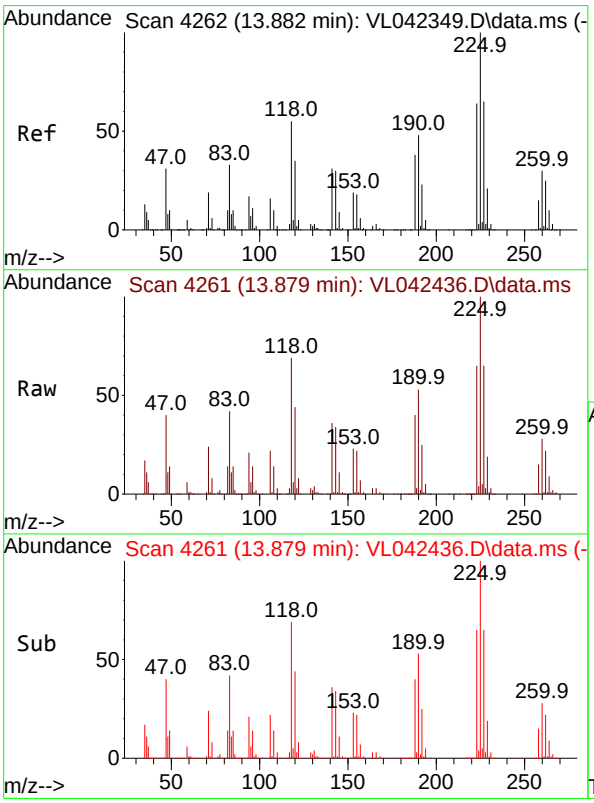
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 54.8 | 25.3 | 75.9 |
| 148 | 63.1 | 31.5 | 94.5 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
**APPROVED**

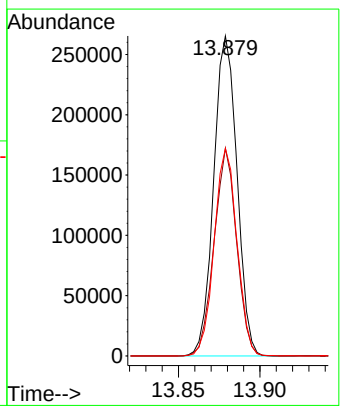
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

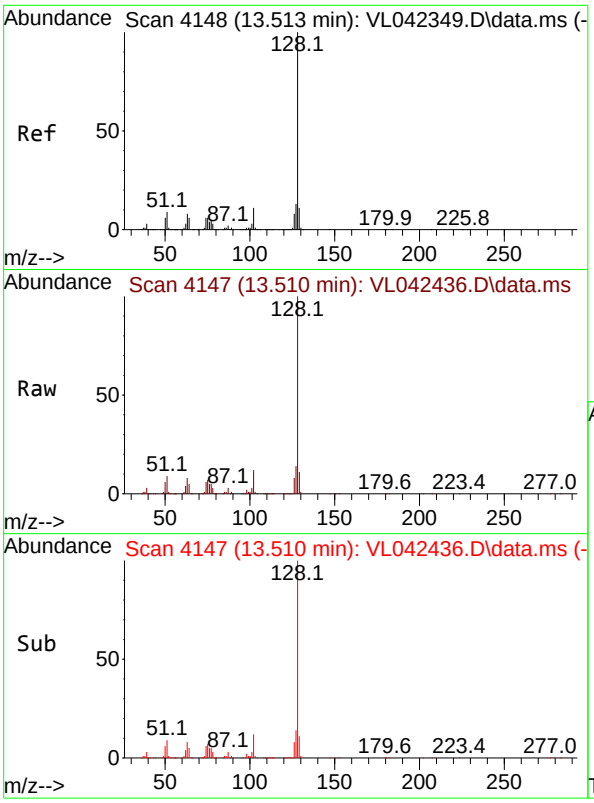



#78
Hexachloro-1,3-Butadiene
Concen: 9.437 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion:225 Resp: 263477

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.6 | 50.3 | 75.5 |
| 227 | 63.6 | 51.5 | 77.3 |

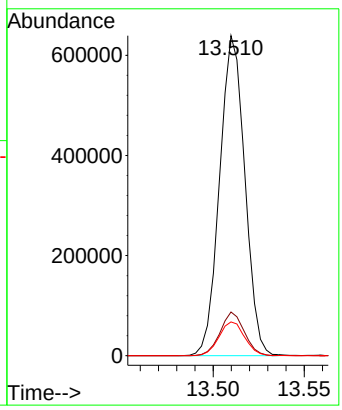





#79
Naphthalene
Concen: 9.408 ppbv
RT: 13.510 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion:128 Resp: 61540

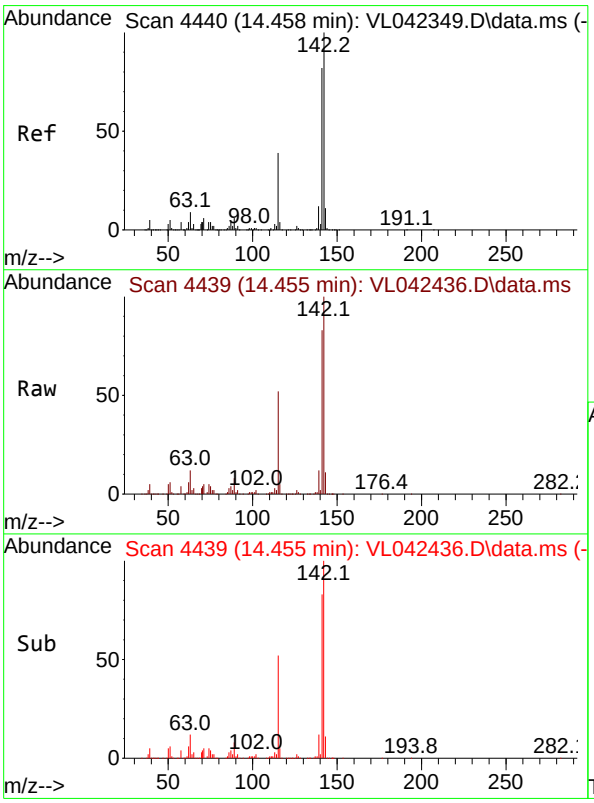
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.7 | 10.6 | 15.8 |
| 129 | 10.5 | 8.6 | 12.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
**APPROVED**

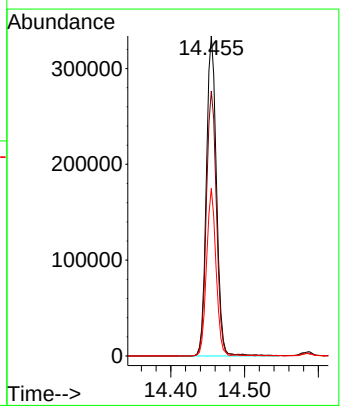
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

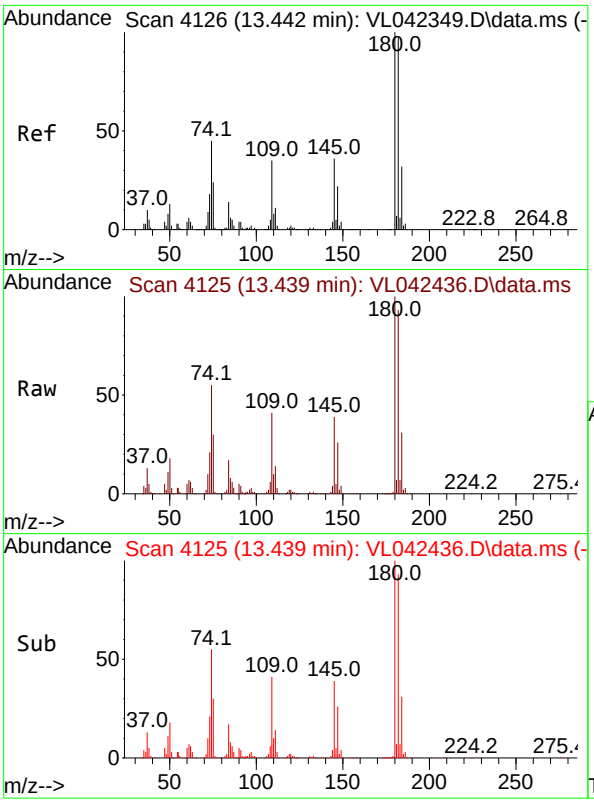



#80
Naphthalene,2-methyl-
Concen: 8.497 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion:142 Resp: 316788

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 83.6 | 66.8 | 100.2 |
| 115 | 49.6 | 33.4 | 50.2 |

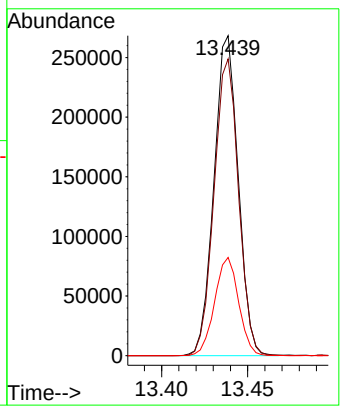





#81
1,2,4-Trichlorobenzene
Concen: 9.363 ppbv
RT: 13.439 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion:180 Resp: 26300

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.8 | 76.8 | 115.2 |
| 184 | 30.4 | 24.6 | 36.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
Data File : VL042436.D
Acq On : 29 Apr 2025 08:39
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**LabSampleId :**
VSTDCCC010

Quant Time: Apr 30 01:15:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Bromochloromethane | 1.000 | 1.000 | 0.0 | 91 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 1.767 | 2.050 | -16.0 | 113 | 0.00 |
| 3 | | Chlorodifluoromethane | 1.682 | 1.641 | 2.4 | 95 | 0.00 |
| 4 | | Chloromethane | 0.699 | 0.788 | -12.7 | 110 | 0.00 |
| 5 | T | Vinyl Chloride | 0.761 | 0.756 | 0.7 | 108 | 0.00 |
| 6 | T | Bromomethane | 0.327 | 0.358 | -9.5 | 108 | 0.00 |
| 7 | | Chloroethane | 0.275 | 0.307 | -11.6 | 111 | 0.00 |
| 8 | T | Dichlorotetrafluoroethane | 1.517 | 1.746 | -15.1 | 111 | 0.00 |
| 9 | T | Propene | 0.766 | 0.604 | 21.1 | 80 | 0.00 |
| 10 | T | Heptane | 2.153 | 1.613 | 25.1 | 78 | 0.00 |
| 11 | T | Trichlorofluoromethane | 1.680 | 1.990 | -18.5 | 116 | 0.00 |
| 12 | T | 1,1,2-Trichlorotrifluoroeth | 1.374 | 1.502 | -9.3 | 107 | 0.00 |
| 13 | | Ethanol | 0.122 | 0.038# | 68.9# | 98 | 0.00 |
| 14 | T | Bromoethene | 0.518 | 0.555 | -7.1 | 103 | 0.00 |
| 15 | T | Acetone | 1.637 | 1.614 | 1.4 | 117 | 0.00 |
| 16 | T | 1,3-Butadiene | 0.783 | 0.776 | 0.9 | 109 | 0.00 |
| 17 | | tert-Butyl alcohol | 2.029 | 2.005 | 1.2 | 101 | 0.00 |
| 18 | T | 1,1-Dichloroethene | 0.642 | 0.659 | -2.6 | 103 | 0.00 |
| 19 | T | Isopropyl Alcohol | 0.909 | 0.890 | 2.1 | 99 | 0.00 |
| 20 | T | Methylene Chloride | 0.641 | 0.587 | 8.4 | 108 | 0.00 |
| 21 | T | Allyl Chloride | 1.130 | 1.151 | -1.9 | 108 | 0.00 |
| 22 | T | trans-1,2-Dichloroethene | 0.731 | 0.756 | -3.4 | 104 | 0.00 |
| 23 | T | Vinyl Acetate | 0.663 | 0.538 | 18.9 | 88 | 0.00 |
| 24 | T | 1,1-Dichloroethane | 1.388 | 1.506 | -8.5 | 107 | 0.00 |
| 25 | T | Ethyl Acetate | 4.036 | 3.568 | 11.6 | 89 | 0.00 |
| 26 | T | Hexane | 1.633 | 1.343 | 17.8 | 86 | 0.00 |
| 27 | T | Carbon Disulfide | 1.749 | 1.858 | -6.2 | 102 | 0.00 |
| 28 | T | Methyl tert-Butyl Ether | 1.070 | 0.996 | 6.9 | 97 | 0.00 |
| 29 | T | Chloroform | 2.309 | 2.540 | -10.0 | 108 | 0.00 |
| 30 | T | Cyclohexane | 1.320 | 1.140 | 13.6 | 83 | 0.00 |
| 31 | T | cis-1,2-Dichloroethene | 1.553 | 1.525 | 1.8 | 95 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 2.599 | 2.727 | -4.9 | 109 | 0.00 |
| 33 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 85 | 0.00 |
| 34 | T | 2-Butanone | 0.791 | 0.745 | 5.8 | 92 | 0.00 |
| 35 | T | Carbon Tetrachloride | 0.905 | 1.017 | -12.4 | 112 | 0.00 |
| 36 | T | Benzene | 1.079 | 1.010 | 6.4 | 86 | 0.00 |
| 37 | T | 1,2-Dichloroethane | 0.647 | 0.786 | -21.5 | 113 | 0.00 |
| 38 | T | Trichloroethene | 0.471 | 0.398 | 15.5 | 86 | 0.00 |
| 39 | T | 1,2-Dichloropropane | 0.402 | 0.354 | 11.9 | 81 | 0.00 |
| 40 | T | 1,4-Dioxane | 0.221 | 0.175 | 20.8 | 82 | 0.00 |
| 41 | T | Tetrahydrofuran | 0.461 | 0.391 | 15.2 | 81 | 0.00 |
| 42 | T | Bromodichloromethane | 0.901 | 1.002 | -11.2 | 100 | 0.00 |
| 43 | | Methyl Methacrylate | 0.486 | 0.407 | 16.3 | 80 | 0.00 |
| 44 | T | 2,2,4-Trimethylpentane | 1.863 | 1.678 | 9.9 | 83 | 0.00 |
| 45 | T | t-1,3-Dichloropropene | 0.497 | 0.448 | 9.9 | 83 | 0.00 |
| 46 | T | cis-1,3-Dichloropropene | 0.608 | 0.544 | 10.5 | 81 | -0.01 |
| 47 | T | 1,1,2-Trichloroethane | 0.410 | 0.415 | -1.2 | 94 | 0.00 |
| 48 | T | Dibromochloromethane | 0.723 | 0.748 | -3.5 | 94 | 0.00 |

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
Data File : VL042436.D
Acq On : 29 Apr 2025 08:39
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**LabSampleId :**
VSTDCCC010

Quant Time: Apr 30 01:15:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | Bromoform | 0.633 | 0.607 | 4.1 | 84 | 0.00 |
| 50 | T | 4-Methyl-2-Pentanone | 1.314 | 1.047 | 20.3 | 82 | 0.00 |
| 51 | T | 2-Hexanone | 1.179 | 0.867 | 26.5 | 83 | 0.00 |
| 52 | T | Tetrachloroethene | 0.417 | 0.327 | 21.6 | 78 | 0.00 |
| 53 | T | Toluene | 1.294 | 1.161 | 10.3 | 83 | 0.00 |
| 54 | T | 1,2-Dibromoethane | 0.586 | 0.578 | 1.4 | 91 | 0.00 |
| 55 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 80 | 0.00 |
| 56 | | 1,1,1,2-Tetrachloroethane | 0.605 | 0.677 | -11.9 | 98 | 0.00 |
| 57 | T | Chlorobenzene | 1.040 | 1.049 | -0.9 | 88 | 0.00 |
| 58 | T | Ethyl Benzene | 1.981 | 1.988 | -0.4 | 87 | 0.00 |
| 59 | T | m/p-Xylene | 1.596 | 1.685 | -5.6 | 92 | -0.02 |
| 60 | T | o-Xylene | 1.607 | 1.718 | -6.9 | 95 | 0.00 |
| 61 | T | Styrene | 0.767 | 0.725 | 5.5 | 80 | 0.00 |
| 62 | | Isopropylbenzene | 2.360 | 2.491 | -5.6 | 92 | 0.00 |
| 63 | T | 1,1,2,2-Tetrachloroethane | 1.042 | 1.010 | 3.1 | 92 | 0.00 |
| 64 | | n-propylbenzene | 0.593 | 0.595 | -0.3 | 88 | 0.00 |
| 65 | | tert-Butylbenzene | 2.169 | 2.285 | -5.3 | 96 | 0.00 |
| 66 | T | Benzyl Chloride | 0.238 | 0.185 | 22.3 | 60 | 0.00 |
| 67 | | sec-Butylbenzene | 3.017 | 3.221 | -6.8 | 97 | 0.00 |
| 68 | S | 1-Bromo-4-Fluorobenzene | 0.822 | 0.938 | -14.1 | 90 | 0.00 |
| 69 | | p-Isopropyltoluene | 2.621 | 2.737 | -4.4 | 95 | 0.00 |
| 70 | | n-Butylbenzene | 2.730 | 2.918 | -6.9 | 98 | 0.00 |
| 71 | | 2-Chlorotoluene | 1.851 | 1.956 | -5.7 | 92 | 0.00 |
| 72 | T | 4-Ethyltoluene | 1.965 | 2.072 | -5.4 | 94 | 0.00 |
| 73 | T | 1,3,5-Trimethylbenzene | 1.735 | 1.830 | -5.5 | 96 | 0.00 |
| 74 | T | 1,2,4-Trimethylbenzene | 2.026 | 2.052 | -1.3 | 98 | 0.00 |
| 75 | T | 1,3-Dichlorobenzene | 1.053 | 1.056 | -0.3 | 89 | 0.00 |
| 76 | T | 1,4-Dichlorobenzene | 1.059 | 1.081 | -2.1 | 91 | 0.00 |
| 77 | T | 1,2-Dichlorobenzene | 1.024 | 1.051 | -2.6 | 93 | 0.00 |
| 78 | T | Hexachloro-1,3-Butadiene | 1.034 | 0.976 | 5.6 | 90 | 0.00 |
| 79 | T | Naphthalene | 2.423 | 2.279 | 5.9 | 91 | 0.00 |
| 80 | T | Naphthalene,2-methyl- | 1.381 | 1.173 | 15.1 | 84 | 0.00 |
| 81 | T | 1,2,4-Trichlorobenzene | 1.040 | 0.974 | 6.3 | 86 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

# QC SAMPLE DATA

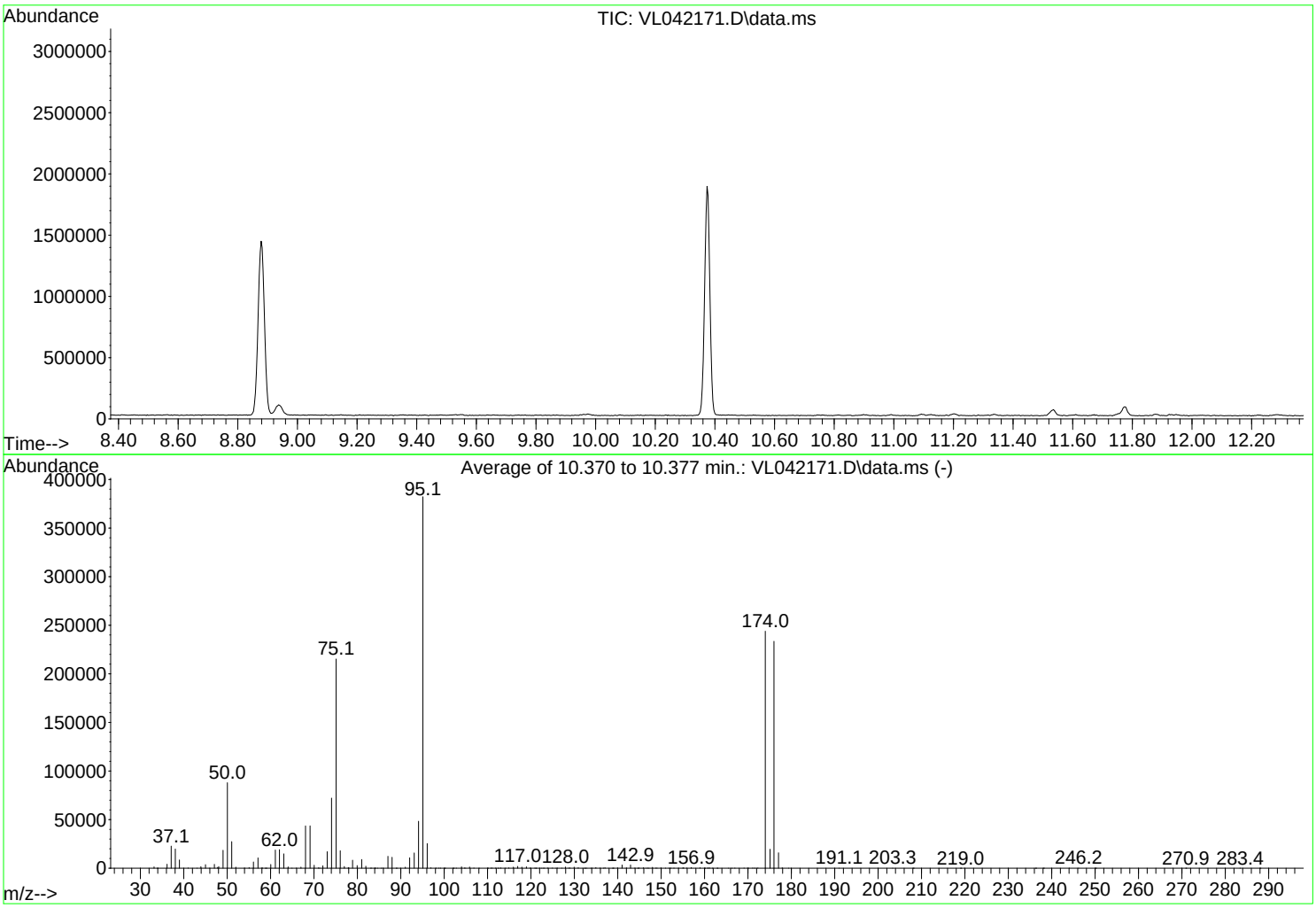
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042171.D
Acq On : 27 Mar 2025 07:44
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Fri Mar 28 02:00:52 2025




AutoFind: Scans 3177, 3178, 3179; Background Corrected with Scan 3150

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 8 | 40 | 23.0 | 87995 | PASS |
| 75 | 95 | 30 | 66 | 56.3 | 215296 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 382268 | PASS |
| 96 | 95 | 5 | 9 | 6.6 | 25383 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 120 | 63.8 | 243904 | PASS |
| 175 | 174 | 4 | 9 | 8.0 | 19539 | PASS |
| 176 | 174 | 93 | 101 | 95.7 | 233493 | PASS |
| 177 | 176 | 5 | 9 | 6.8 | 15877 | PASS |

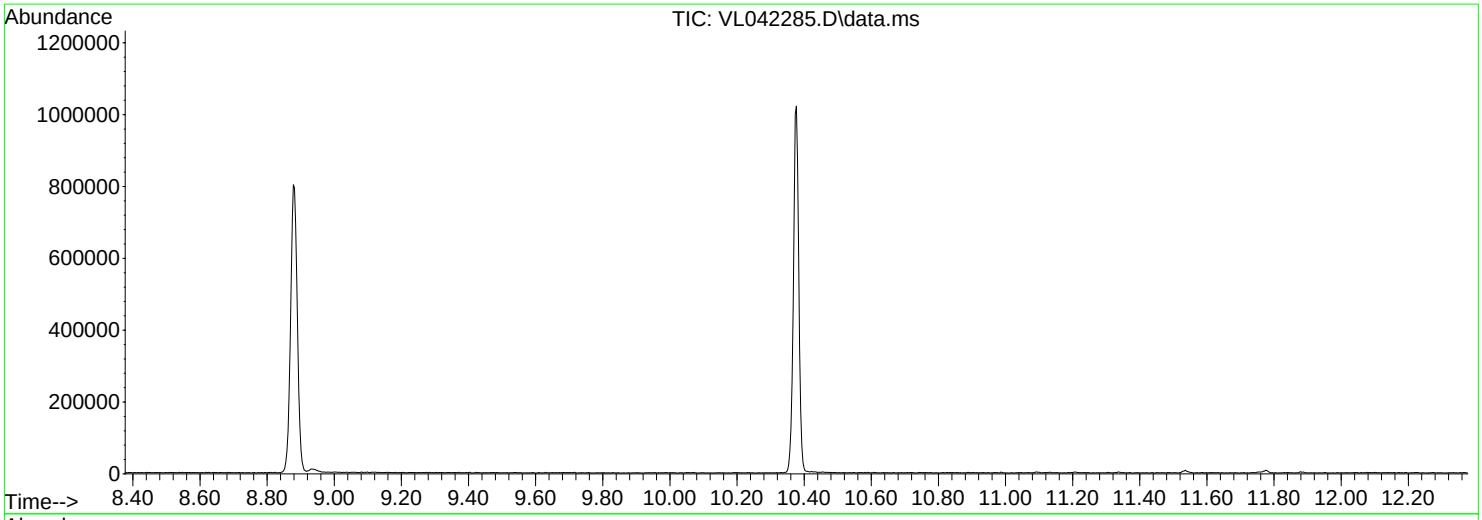
BFB

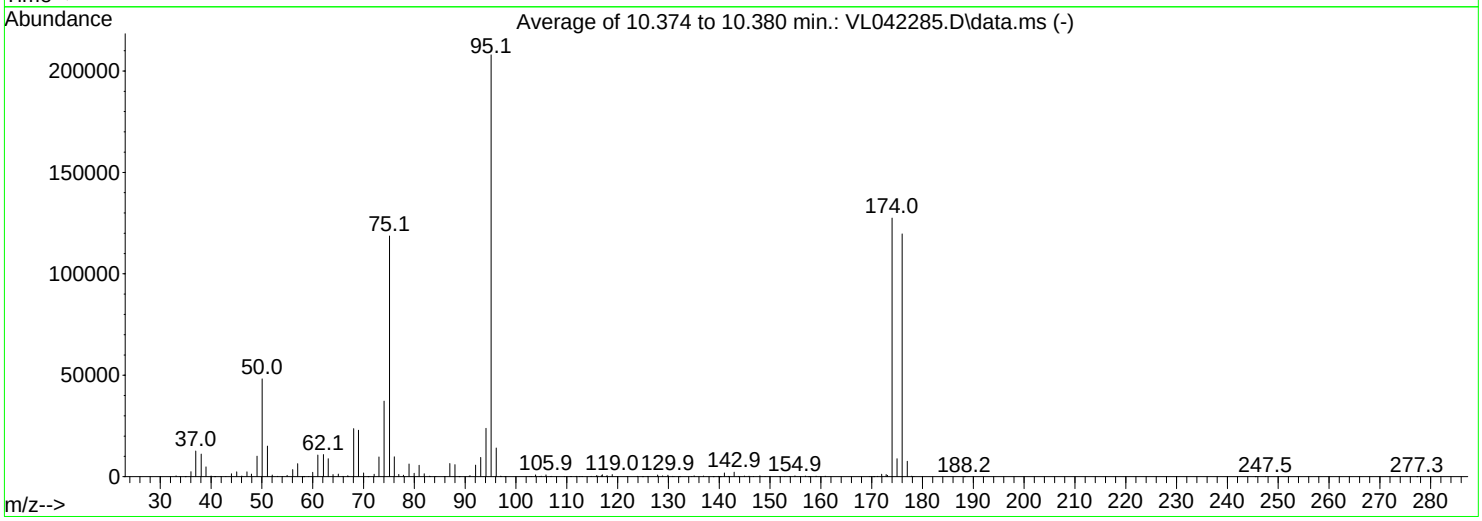
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042285.D
Acq On : 09 Apr 2025 09:38
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Fri Mar 28 02:00:52 2025




AutoFind: Scans 3178, 3179, 3180; Background Corrected with Scan 3162

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 8 | 40 | 23.2 | 48216 | PASS |
| 75 | 95 | 30 | 66 | 57.1 | 118680 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 207979 | PASS |
| 96 | 95 | 5 | 9 | 6.8 | 14091 | PASS |
| 173 | 174 | 0.00 | 2 | 0.8 | 1054 | PASS |
| 174 | 95 | 50 | 120 | 61.3 | 127477 | PASS |
| 175 | 174 | 4 | 9 | 6.9 | 8833 | PASS |
| 176 | 174 | 93 | 101 | 93.9 | 119656 | PASS |
| 177 | 176 | 5 | 9 | 6.4 | 7607 | PASS |

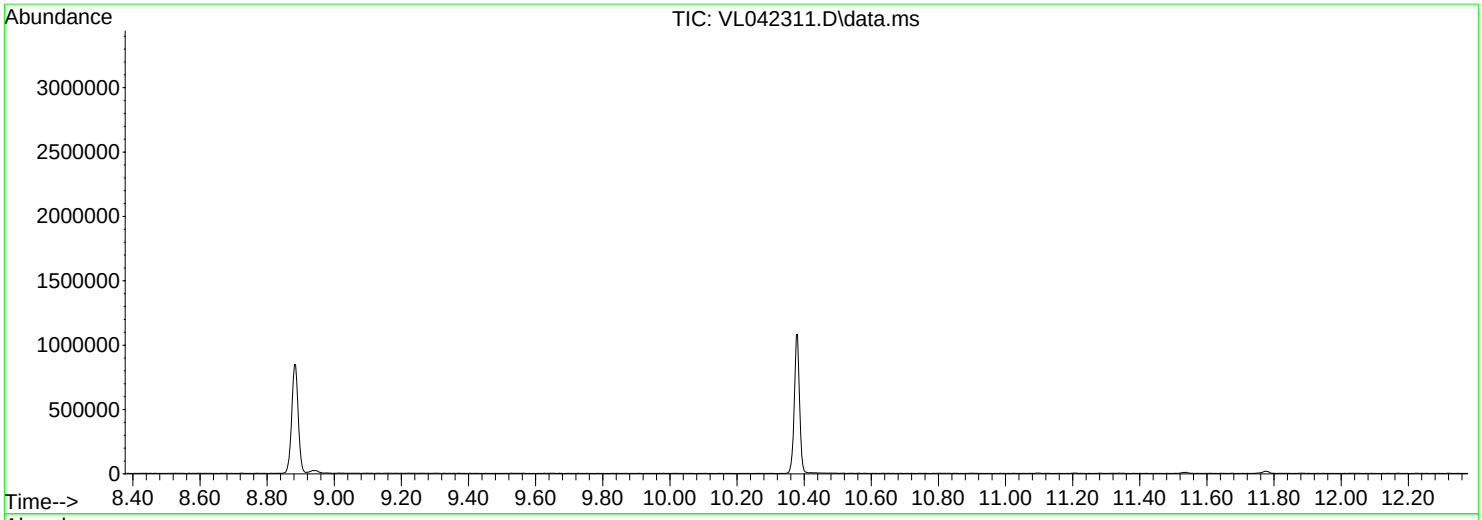
BFB

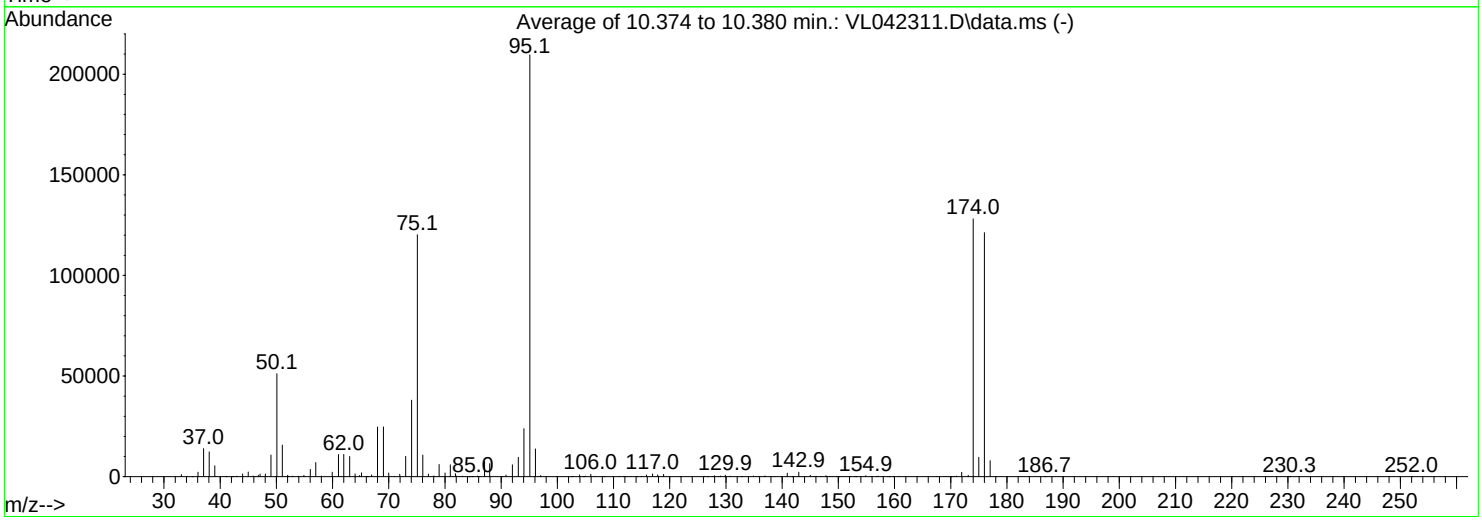
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042311.D
Acq On : 11 Apr 2025 08:18
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Fri Mar 28 02:00:52 2025




AutoFind: Scans 3178, 3179, 3180; Background Corrected with Scan 3165

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 8 | 40 | 24.4 | 51160 | PASS |
| 75 | 95 | 30 | 66 | 57.3 | 120195 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 209621 | PASS |
| 96 | 95 | 5 | 9 | 6.6 | 13755 | PASS |
| 173 | 174 | 0.00 | 2 | 0.5 | 631 | PASS |
| 174 | 95 | 50 | 120 | 61.1 | 128109 | PASS |
| 175 | 174 | 4 | 9 | 7.5 | 9591 | PASS |
| 176 | 174 | 93 | 101 | 94.7 | 121299 | PASS |
| 177 | 176 | 5 | 9 | 6.6 | 7977 | PASS |

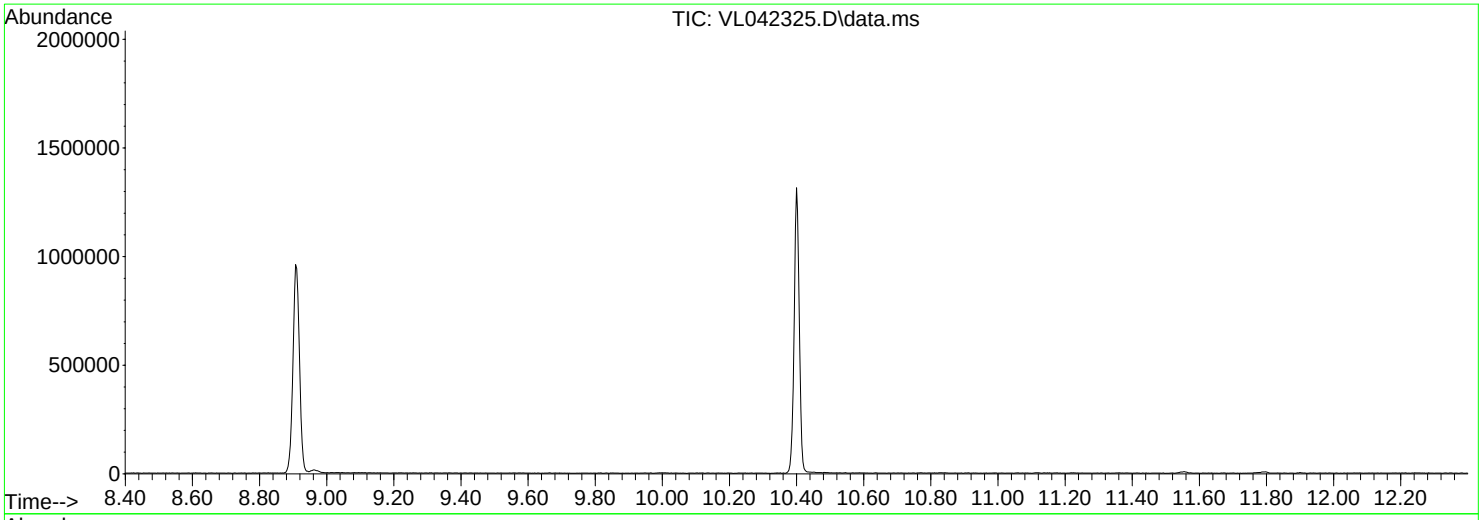
BFB

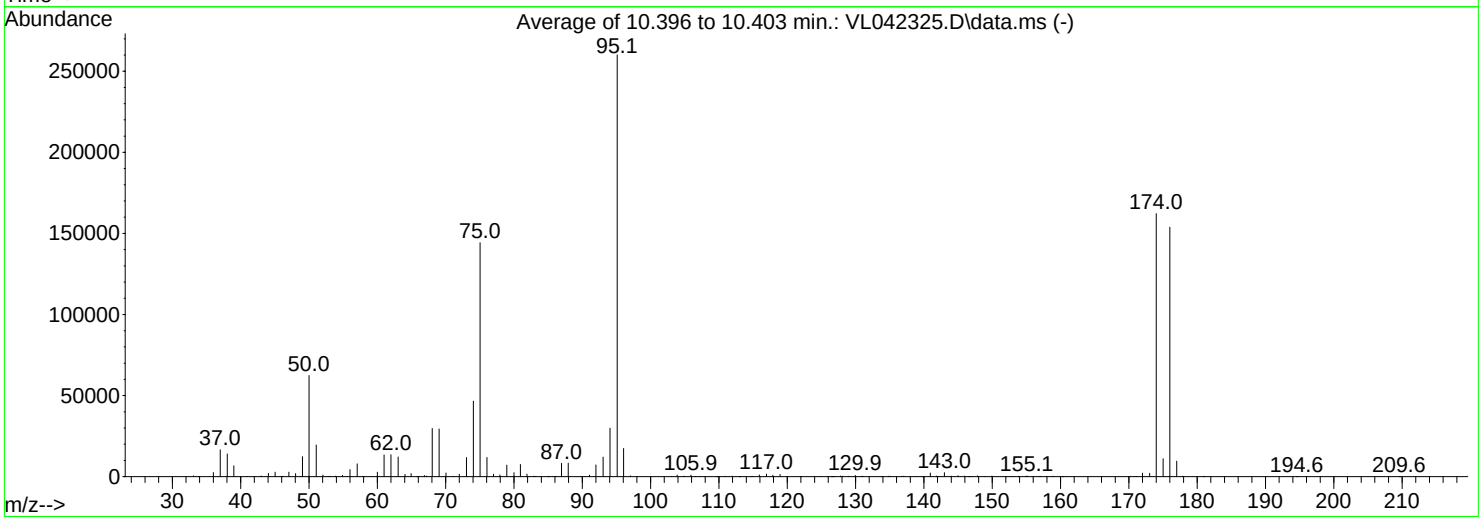
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
Data File : VL042325.D
Acq On : 15 Apr 2025 07:45
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Fri Mar 28 02:00:52 2025




AutoFind: Scans 3185, 3186, 3187; Background Corrected with Scan 3171

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 8 | 40 | 24.0 | 62363 | PASS |
| 75 | 95 | 30 | 66 | 55.5 | 144299 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 260117 | PASS |
| 96 | 95 | 5 | 9 | 6.7 | 17331 | PASS |
| 173 | 174 | 0.00 | 2 | 1.3 | 2038 | PASS |
| 174 | 95 | 50 | 120 | 62.4 | 162261 | PASS |
| 175 | 174 | 4 | 9 | 6.8 | 11092 | PASS |
| 176 | 174 | 93 | 101 | 94.8 | 153792 | PASS |
| 177 | 176 | 5 | 9 | 6.2 | 9603 | PASS |

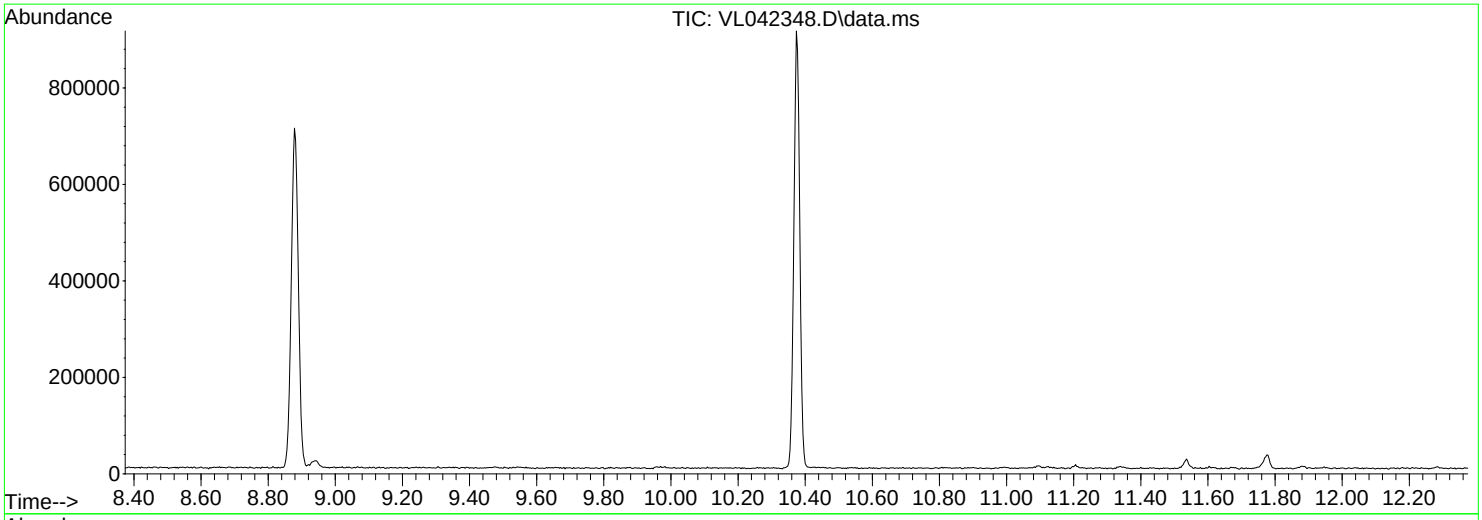
BFB

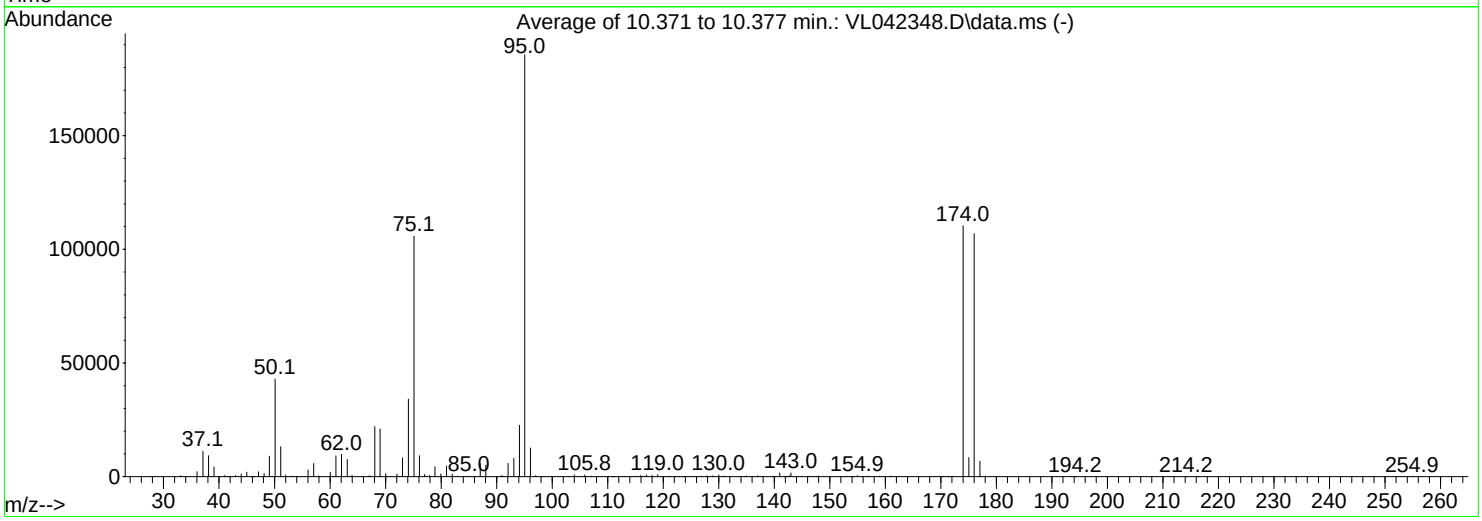
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042348.D
Acq On : 17 Apr 2025 07:50
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Fri Apr 18 02:14:00 2025




AutoFind: Scans 3177, 3178, 3179; Background Corrected with Scan 3162

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 8 | 40 | 23.1 | 42933 | PASS |
| 75 | 95 | 30 | 66 | 57.0 | 105781 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 185564 | PASS |
| 96 | 95 | 5 | 9 | 6.8 | 12627 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 120 | 59.5 | 110360 | PASS |
| 175 | 174 | 4 | 9 | 7.6 | 8420 | PASS |
| 176 | 174 | 93 | 101 | 96.9 | 106933 | PASS |
| 177 | 176 | 5 | 9 | 6.3 | 6744 | PASS |

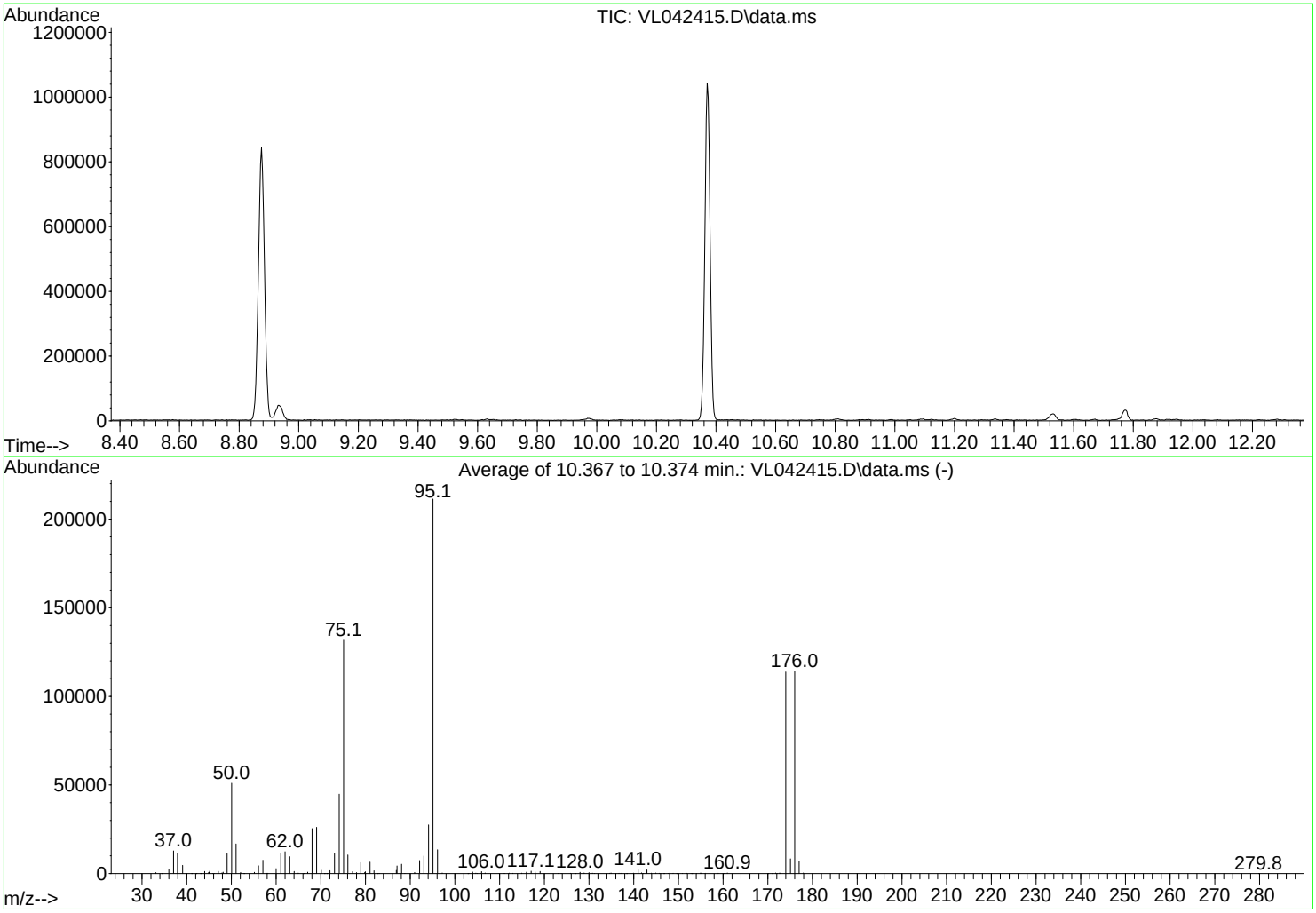
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042415.D
Acq On : 28 Apr 2025 07:59
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Fri Apr 18 02:14:00 2025




AutoFind: Scans 3176, 3177, 3178; Background Corrected with Scan 3156

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 8 | 40 | 24.1 | 51000 | PASS |
| 75 | 95 | 30 | 66 | 62.3 | 131741 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 211371 | PASS |
| 96 | 95 | 5 | 9 | 6.4 | 13514 | PASS |
| 173 | 174 | 0.00 | 2 | 0.2 | 277 | PASS |
| 174 | 95 | 50 | 120 | 53.8 | 113779 | PASS |
| 175 | 174 | 4 | 9 | 7.3 | 8346 | PASS |
| 176 | 174 | 93 | 101 | 100.2 | 114021 | PASS |
| 177 | 176 | 5 | 9 | 6.1 | 6921 | PASS |

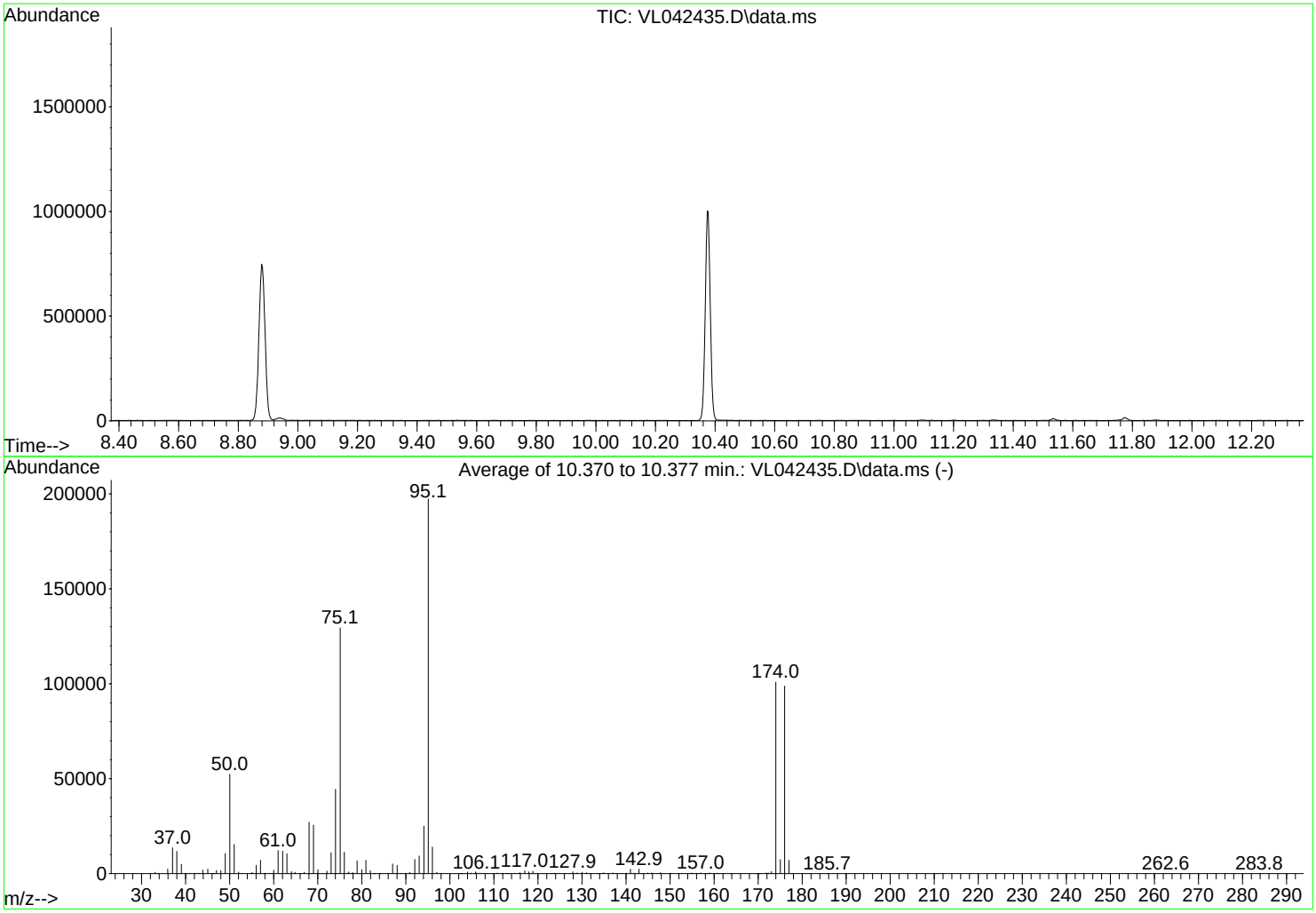
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
Data File : VL042435.D
Acq On : 29 Apr 2025 07:55
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Fri Apr 18 02:14:00 2025




AutoFind: Scans 3177, 3178, 3179; Background Corrected with Scan 3165

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 8 | 40 | 26.5 | 52245 | PASS |
| 75 | 95 | 30 | 66 | 65.6 | 129440 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 197333 | PASS |
| 96 | 95 | 5 | 9 | 7.1 | 14000 | PASS |
| 173 | 174 | 0.00 | 2 | 1.1 | 1121 | PASS |
| 174 | 95 | 50 | 120 | 51.1 | 100867 | PASS |
| 175 | 174 | 4 | 9 | 7.3 | 7342 | PASS |
| 176 | 174 | 93 | 101 | 98.0 | 98848 | PASS |
| 177 | 176 | 5 | 9 | 7.0 | 6939 | PASS |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | |
| Client Sample ID: | VL0409ABL01 | SDG No.: | Q1665 |
| Lab Sample ID: | VL0409ABL01 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042287.D | 1 | | 04/09/25 11:03 | VL040925 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.21 | 1.04 | U | 1.04 | 2.47 | ug/m3 |
| 64-17-5 | Ethanol | 0.32 | 0.60 | U | 0.60 | 0.94 | ug/m3 |
| 74-87-3 | Chloromethane | 0.10 | 0.21 | U | 0.21 | 1.03 | ug/m3 |
| 75-01-4 | Vinyl Chloride | 0.010 | 0.030 | U | 0.030 | 0.080 | ug/m3 |
| 74-83-9 | Bromomethane | 0.14 | 0.54 | U | 0.54 | 1.94 | ug/m3 |
| 75-00-3 | Chloroethane | 0.17 | 0.45 | U | 0.45 | 1.32 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | 0.13 | 0.38 | U | 0.38 | 1.47 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | 0.16 | 0.90 | U | 0.90 | 2.81 | ug/m3 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.16 | 1.23 | U | 1.23 | 3.83 | ug/m3 |
| 76-14-2 | Dichlorotetrafluoroethane | 0.090 | 0.63 | U | 0.63 | 3.49 | ug/m3 |
| 593-60-2 | Bromoethene | 0.12 | 0.52 | U | 0.52 | 2.19 | ug/m3 |
| 75-65-0 | tert-Butyl alcohol | 0.19 | 0.58 | U | 0.58 | 1.52 | ug/m3 |
| 142-82-5 | Heptane | 0.11 | 0.45 | U | 0.45 | 2.05 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | 0.070 | 0.17 | U | 0.17 | 1.23 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethene | 0.14 | 0.56 | U | 0.56 | 1.98 | ug/m3 |
| 67-64-1 | Acetone | 0.24 | 0.57 | U | 0.57 | 1.19 | ug/m3 |
| 75-15-0 | Carbon Disulfide | 0.16 | 0.50 | U | 0.50 | 1.56 | ug/m3 |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.12 | 0.43 | U | 0.43 | 1.80 | ug/m3 |
| 75-09-2 | Methylene Chloride | 0.19 | 0.66 | U | 0.66 | 1.74 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.19 | 0.75 | U | 0.75 | 1.98 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | 0.13 | 0.53 | U | 0.53 | 2.02 | ug/m3 |
| 110-82-7 | Cyclohexane | 0.22 | 0.76 | U | 0.76 | 1.72 | ug/m3 |
| 78-93-3 | 2-Butanone | 0.12 | 0.35 | U | 0.35 | 1.47 | ug/m3 |
| 56-23-5 | Carbon Tetrachloride | 0.010 | 0.060 | U | 0.060 | 0.19 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.090 | 0.36 | U | 0.36 | 1.98 | ug/m3 |
| 67-66-3 | Chloroform | 0.080 | 0.39 | U | 0.39 | 2.44 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.010 | 0.050 | U | 0.050 | 0.16 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | 0.10 | 0.47 | U | 0.47 | 2.34 | ug/m3 |
| 71-43-2 | Benzene | 0.090 | 0.29 | U | 0.29 | 1.60 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | 0.090 | 0.36 | U | 0.36 | 2.02 | ug/m3 |
| 79-01-6 | Trichloroethene | 0.020 | 0.11 | U | 0.11 | 0.16 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | 0.11 | 0.51 | U | 0.51 | 2.31 | ug/m3 |
| 75-27-4 | Bromodichloromethane | 0.080 | 0.54 | U | 0.54 | 3.35 | ug/m3 |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.090 | 0.37 | U | 0.37 | 2.05 | ug/m3 |
| 108-88-3 | Toluene | 0.11 | 0.41 | U | 0.41 | 1.88 | ug/m3 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | |
| Client Sample ID: | VL0409ABL01 | SDG No.: | Q1665 |
| Lab Sample ID: | VL0409ABL01 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042287.D | 1 | | 04/09/25 11:03 | VL040925 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.060 | 0.27 | U | 0.27 | 2.27 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.060 | 0.27 | U | 0.27 | 2.27 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.070 | 0.38 | U | 0.38 | 2.73 | ug/m3 |
| 124-48-1 | Dibromochloromethane | 0.070 | 0.60 | U | 0.60 | 4.26 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane | 0.070 | 0.54 | U | 0.54 | 0.77 | ug/m3 |
| 127-18-4 | Tetrachloroethene | 0.020 | 0.14 | U | 0.14 | 0.20 | ug/m3 |
| 108-90-7 | Chlorobenzene | 0.080 | 0.37 | U | 0.37 | 2.30 | ug/m3 |
| 100-41-4 | Ethyl Benzene | 0.12 | 0.52 | U | 0.52 | 2.17 | ug/m3 |
| 179601-23-1 | m/p-Xylene | 0.21 | 0.91 | U | 0.91 | 4.34 | ug/m3 |
| 95-47-6 | o-Xylene | 0.12 | 0.52 | U | 0.52 | 2.17 | ug/m3 |
| 100-42-5 | Styrene | 0.11 | 0.47 | U | 0.47 | 2.13 | ug/m3 |
| 75-25-2 | Bromoform | 0.060 | 0.62 | U | 0.62 | 5.17 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.010 | 0.070 | U | 0.070 | 0.21 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | 0.11 | 0.57 | U | 0.57 | 2.59 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.11 | 0.54 | U | 0.54 | 2.46 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.080 | 0.39 | U | 0.39 | 2.46 | ug/m3 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.080 | 0.48 | U | 0.48 | 3.01 | ug/m3 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.050 | 0.30 | U | 0.30 | 3.01 | ug/m3 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.080 | 0.48 | U | 0.48 | 3.01 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.090 | 0.67 | U | 0.67 | 3.71 | ug/m3 |
| 87-68-3 | Hexachloro-1,3-Butadiene | 0.090 | 0.96 | U | 0.96 | 5.33 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | 0.13 | 0.29 | U | 0.29 | 1.11 | ug/m3 |
| 91-20-3 | Naphthalene | 0.080 | 0.42 | U | 0.42 | 0.52 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | 0.12 | 0.59 | U | 0.59 | 2.46 | ug/m3 |
| 110-54-3 | Hexane | 0.11 | 0.39 | U | 0.39 | 1.76 | ug/m3 |
| 107-05-1 | Allyl Chloride | 0.15 | 0.47 | U | 0.47 | 1.57 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | 0.21 | 0.76 | U | 0.76 | 1.80 | ug/m3 |
| 80-62-6 | Methyl Methacrylate | 0.090 | 0.37 | U | 0.37 | 2.05 | ug/m3 |
| **SURROGATES** | | | | | | | |
| 460-00-4 | 1-Bromo-4-Fluorobenzene | 9.10 | | | 70 (65) - 130 (135) | 91% | SPK: 10 |
| **INTERNAL STANDARDS** | | | | | | | |
| 74-97-5 | Bromochloromethane | 157000 | | 2.784 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 392000 | | 3.955 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 334000 | | 8.878 | | | |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | |
| Client Sample ID: | VL0409ABL01 | SDG No.: | Q1665 |
| Lab Sample ID: | VL0409ABL01 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042287.D | 1 | | 04/09/25 11:03 | VL040925 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042287.D
Acq On : 09 Apr 2025 11:03
Operator : SY/MD
Sample : VL0409ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABL01

Quant Time: Apr 10 01:40:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

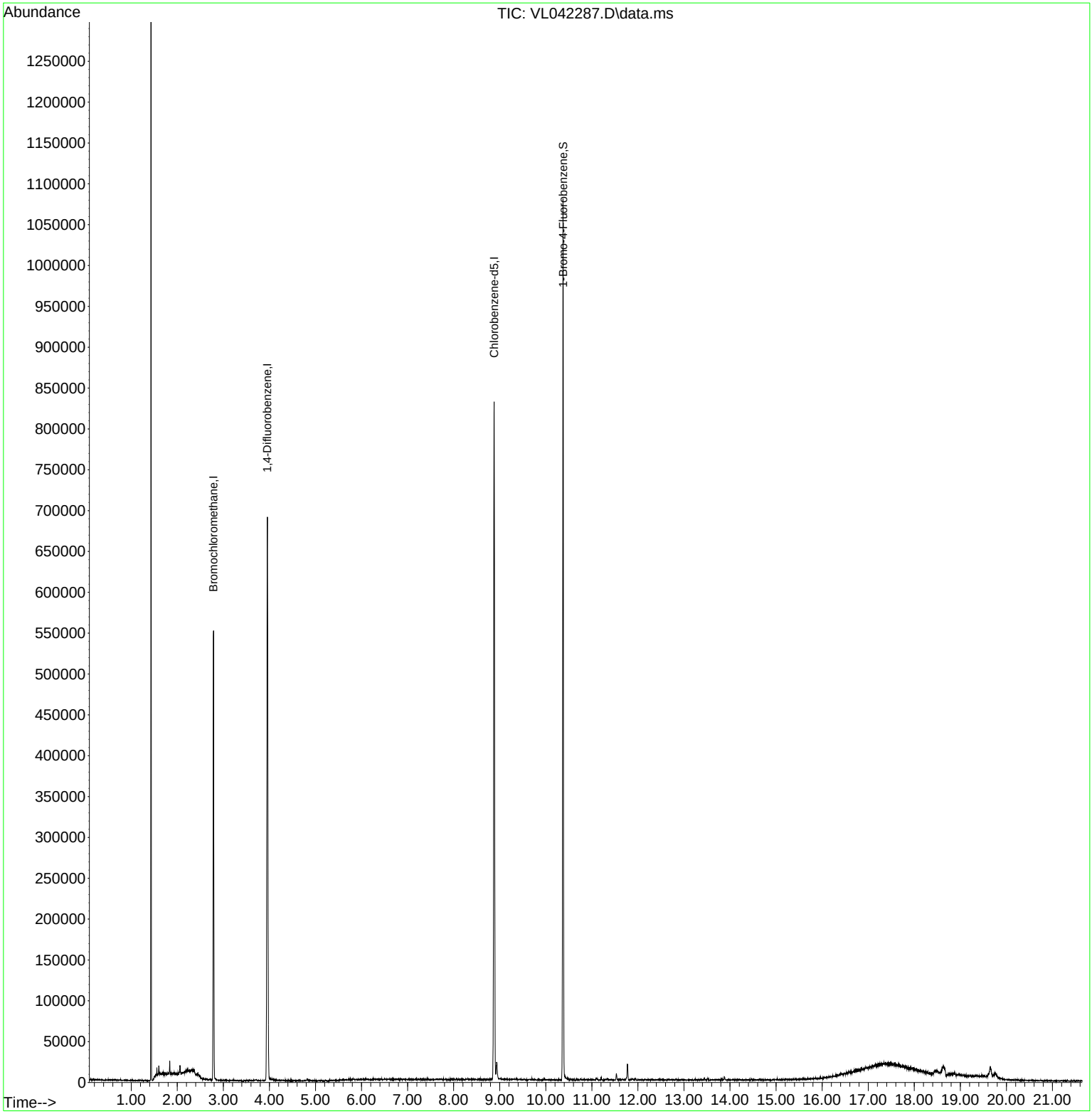
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.784 | 49 | 156784 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.955 | 114 | 391570 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.878 | 117 | 334054 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.374 | 95 | 250420 | 9.128 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 91.300% | | | |
| Target Compounds | | | | | | Qvalue |

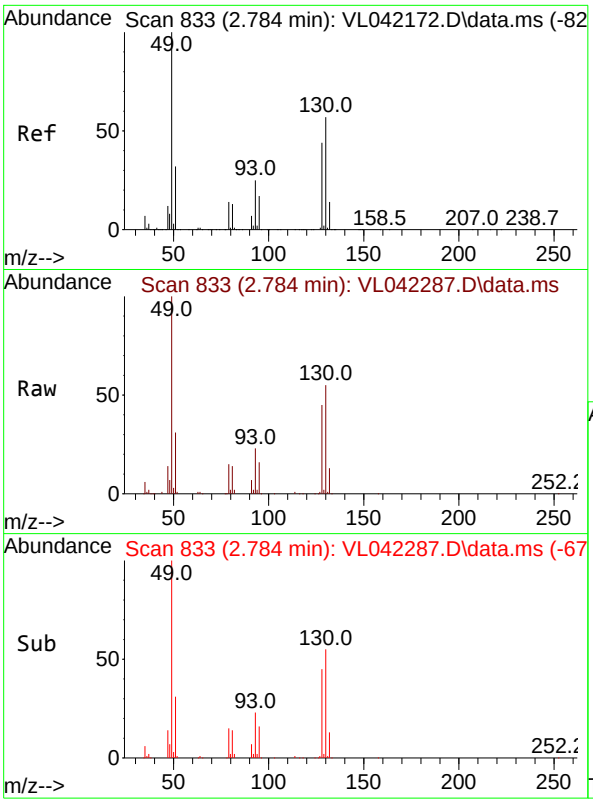
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042287.D
Acq On : 09 Apr 2025 11:03
Operator : SY/MD
Sample : VL0409ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABL01

Quant Time: Apr 10 01:40:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration



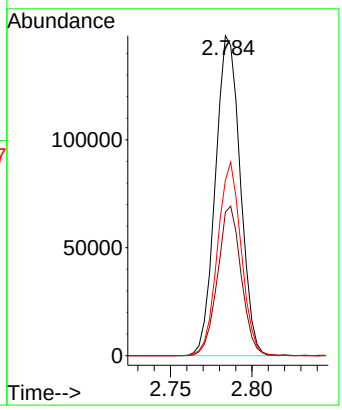


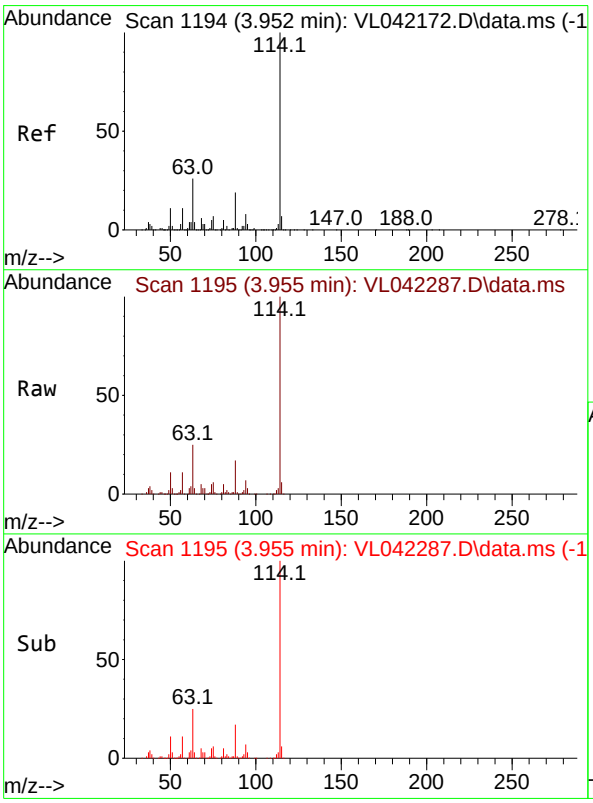

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042287.D
Acq: 09 Apr 2025 11:03

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABL01

Tgt Ion: 49 Resp: 156784

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 44.5 | 22.9 | 68.5 |
| 130 | 57.7 | 28.8 | 86.4 |

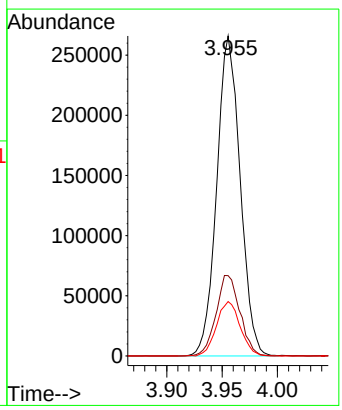


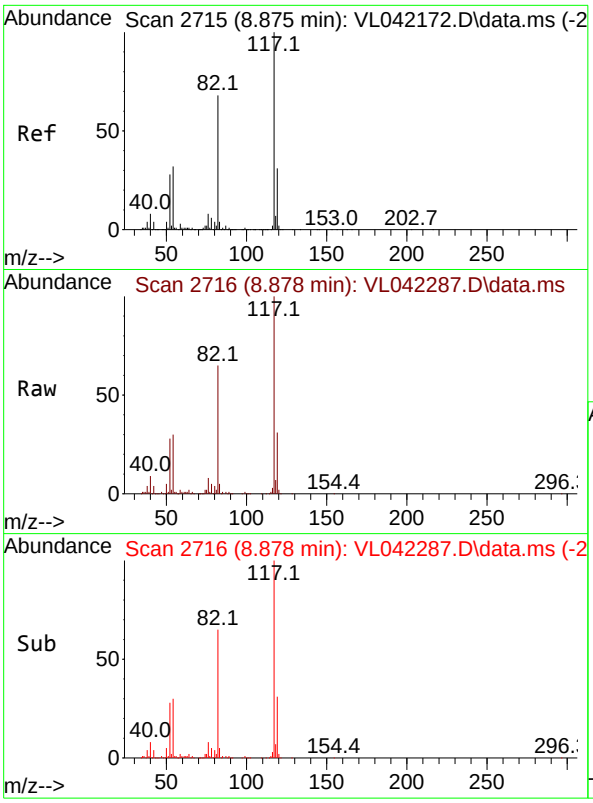




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. 0.003 min
Lab File: VL042287.D
Acq: 09 Apr 2025 11:03

Tgt Ion:114 Resp: 391570

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.6 | 20.7 | 31.1 |
| 88 | 17.2 | 15.0 | 22.4 |



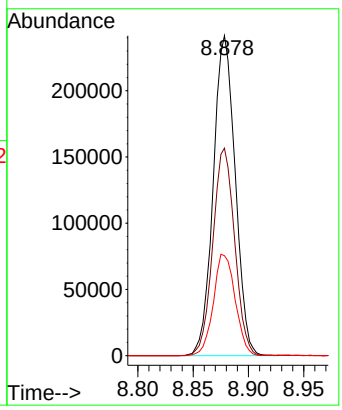


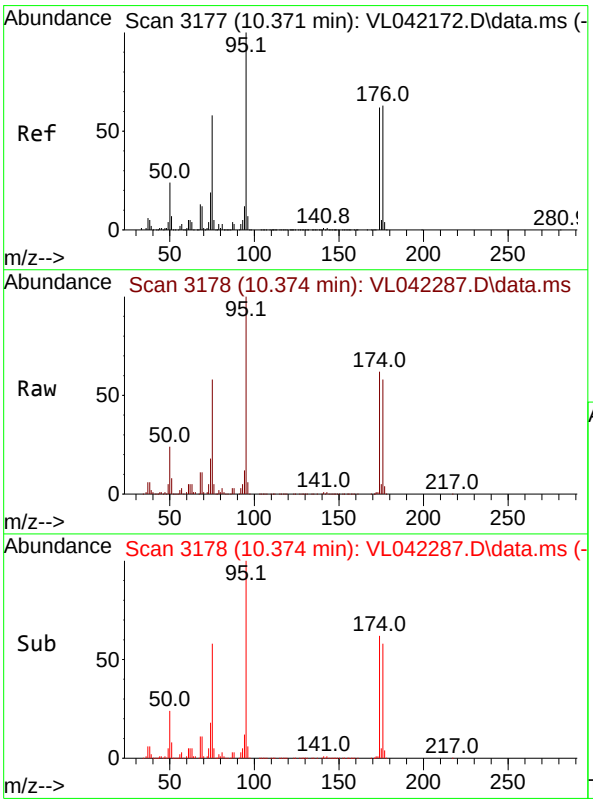

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042287.D
Acq: 09 Apr 2025 11:03

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABL01

Tgt Ion:117 Resp: 334054

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 64.5 | 55.8 | 83.6 |
| 119 | 31.5 | 25.5 | 38.3 |

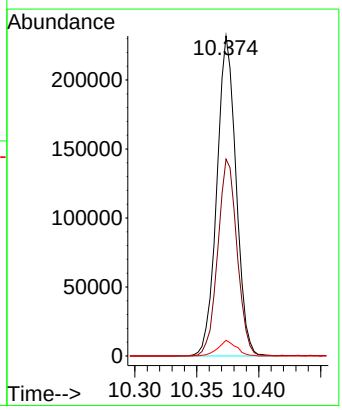



#68
1-Bromo-4-Fluorobenzene
Concen: 9.128 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.003 min
Lab File: VL042287.D
Acq: 09 Apr 2025 11:03

Tgt Ion: 95 Resp: 250420

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 62.0 | 50.6 | 76.0 |
| 175 | 4.7 | 3.8 | 5.6 |



LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042287.D
Acq On : 09 Apr 2025 11:03
Operator : SY/MD
Sample : VL0409ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

Signal : TIC: VL042287.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.431 | 410 | 415 | 419 | rBV | 1536698 | 882097 | 74.58% | 17.953% |
| 2 | 2.787 | 825 | 834 | 843 | rBV | 550211 | 583696 | 49.35% | 11.880% |
| 3 | 3.955 | 1179 | 1195 | 1209 | rBV | 689815 | 1037158 | 87.68% | 21.109% |
| 4 | 8.878 | 2704 | 2716 | 2726 | rBV | 829493 | 1166426 | 98.61% | 23.740% |
| 5 | 8.933 | 2726 | 2733 | 2745 | rVB3 | 20701 | 34755 | 2.94% | 0.707% |
| 6 | 10.374 | 3167 | 3178 | 3188 | rBV | 1079284 | 1182823 | 100.00% | 24.074% |
| 7 | 11.772 | 3598 | 3610 | 3618 | rVB4 | 19739 | 26381 | 2.23% | 0.537% |

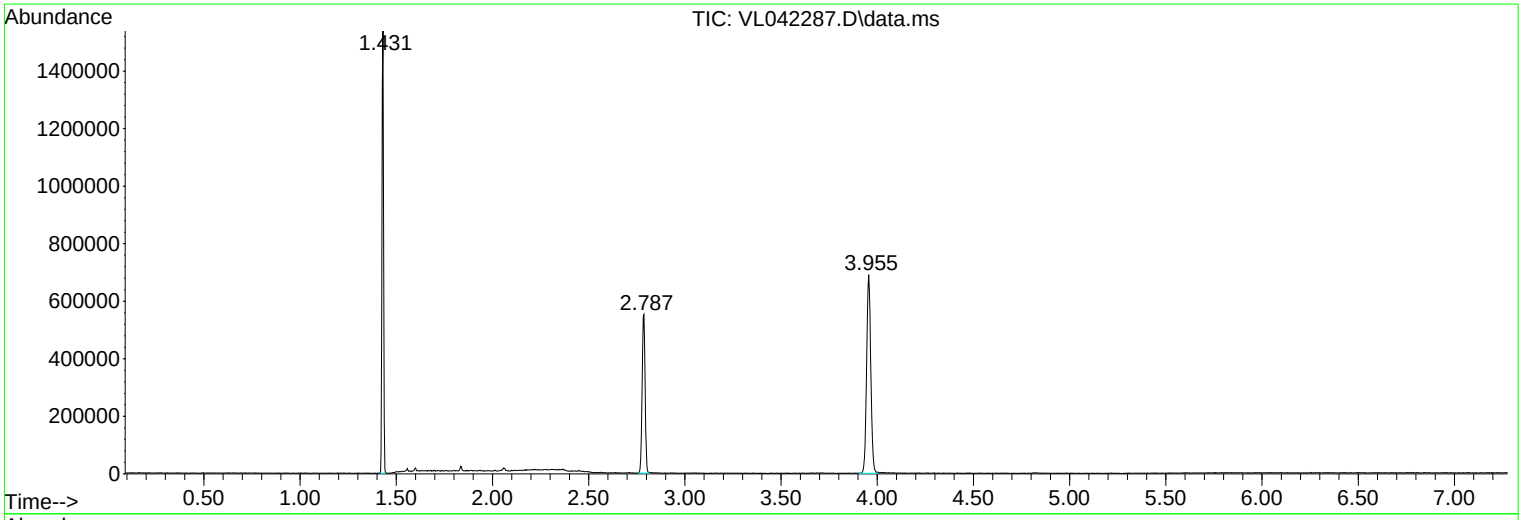
Sum of corrected areas: 4913336

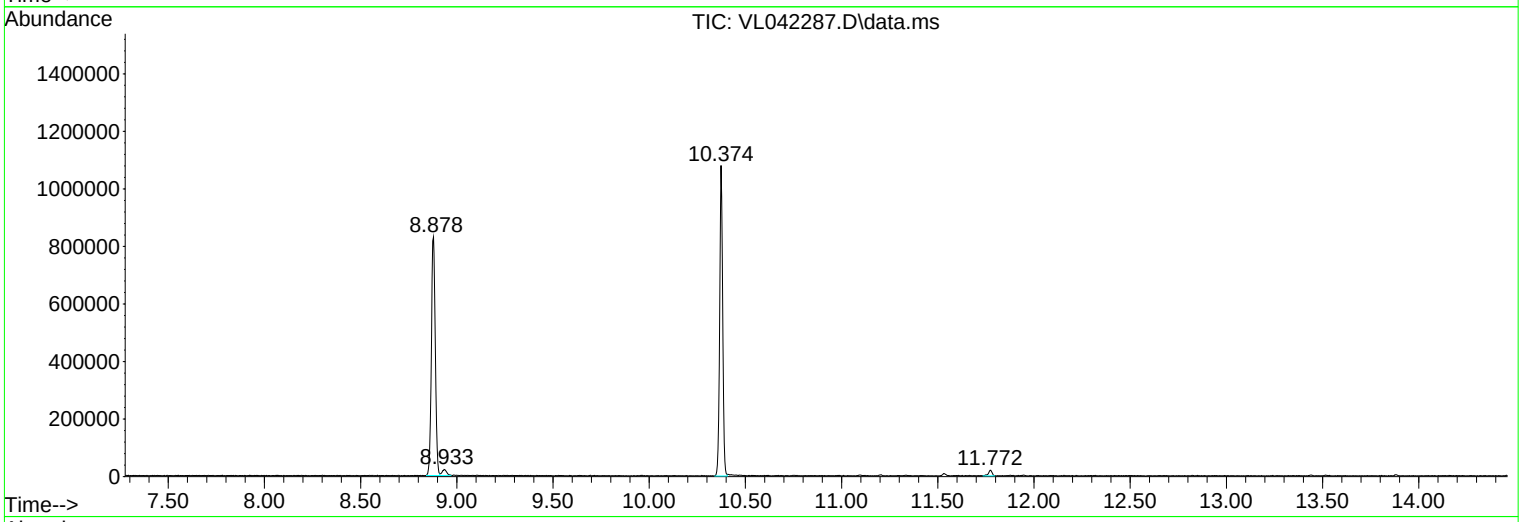
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042287.D
Acq On : 09 Apr 2025 11:03
Operator : SY/MD
Sample : VL0409ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

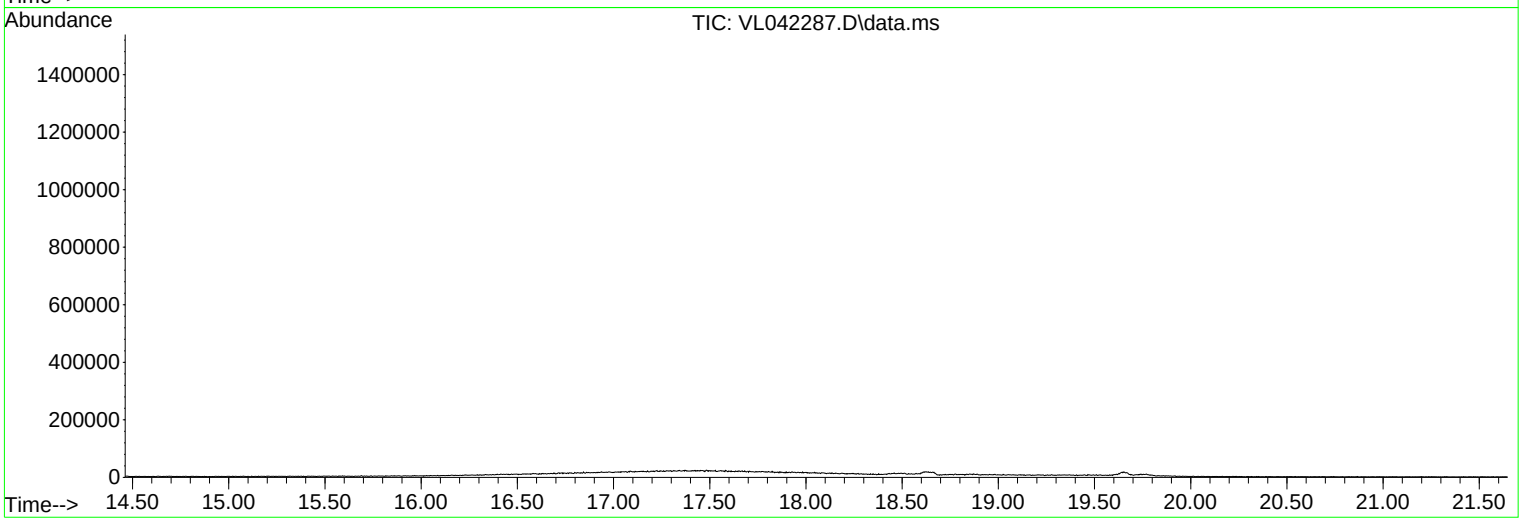
**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042287.D
Acq On : 09 Apr 2025 11:03
Operator : SY/MD
Sample : VL0409ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
**********

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042287.D
Acq On : 09 Apr 2025 11:03
Operator : SY/MD
Sample : VL0409ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | |
| Client Sample ID: | VL0411ABL01 | SDG No.: | Q1665 |
| Lab Sample ID: | VL0411ABL01 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042313.D | 1 | | 04/11/25 10:36 | VL041125 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.21 | 1.04 | U | 1.04 | 2.47 | ug/m3 |
| 64-17-5 | Ethanol | 0.32 | 0.60 | U | 0.60 | 0.94 | ug/m3 |
| 74-87-3 | Chloromethane | 0.10 | 0.21 | U | 0.21 | 1.03 | ug/m3 |
| 75-01-4 | Vinyl Chloride | 0.010 | 0.030 | U | 0.030 | 0.080 | ug/m3 |
| 74-83-9 | Bromomethane | 0.14 | 0.54 | U | 0.54 | 1.94 | ug/m3 |
| 75-00-3 | Chloroethane | 0.17 | 0.45 | U | 0.45 | 1.32 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | 0.13 | 0.38 | U | 0.38 | 1.47 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | 0.16 | 0.90 | U | 0.90 | 2.81 | ug/m3 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.16 | 1.23 | U | 1.23 | 3.83 | ug/m3 |
| 76-14-2 | Dichlorotetrafluoroethane | 0.090 | 0.63 | U | 0.63 | 3.49 | ug/m3 |
| 593-60-2 | Bromoethene | 0.12 | 0.52 | U | 0.52 | 2.19 | ug/m3 |
| 75-65-0 | tert-Butyl alcohol | 0.19 | 0.58 | U | 0.58 | 1.52 | ug/m3 |
| 142-82-5 | Heptane | 0.11 | 0.45 | U | 0.45 | 2.05 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | 0.070 | 0.17 | U | 0.17 | 1.23 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethene | 0.14 | 0.56 | U | 0.56 | 1.98 | ug/m3 |
| 67-64-1 | Acetone | 0.24 | 0.57 | U | 0.57 | 1.19 | ug/m3 |
| 75-15-0 | Carbon Disulfide | 0.16 | 0.50 | U | 0.50 | 1.56 | ug/m3 |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.12 | 0.43 | U | 0.43 | 1.80 | ug/m3 |
| 75-09-2 | Methylene Chloride | 0.19 | 0.66 | U | 0.66 | 1.74 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.19 | 0.75 | U | 0.75 | 1.98 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | 0.13 | 0.53 | U | 0.53 | 2.02 | ug/m3 |
| 110-82-7 | Cyclohexane | 0.22 | 0.76 | U | 0.76 | 1.72 | ug/m3 |
| 78-93-3 | 2-Butanone | 0.12 | 0.35 | U | 0.35 | 1.47 | ug/m3 |
| 56-23-5 | Carbon Tetrachloride | 0.010 | 0.060 | U | 0.060 | 0.19 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.090 | 0.36 | U | 0.36 | 1.98 | ug/m3 |
| 67-66-3 | Chloroform | 0.080 | 0.39 | U | 0.39 | 2.44 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.010 | 0.050 | U | 0.050 | 0.16 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | 0.10 | 0.47 | U | 0.47 | 2.34 | ug/m3 |
| 71-43-2 | Benzene | 0.090 | 0.29 | U | 0.29 | 1.60 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | 0.090 | 0.36 | U | 0.36 | 2.02 | ug/m3 |
| 79-01-6 | Trichloroethene | 0.020 | 0.11 | U | 0.11 | 0.16 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | 0.11 | 0.51 | U | 0.51 | 2.31 | ug/m3 |
| 75-27-4 | Bromodichloromethane | 0.080 | 0.54 | U | 0.54 | 3.35 | ug/m3 |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.090 | 0.37 | U | 0.37 | 2.05 | ug/m3 |
| 108-88-3 | Toluene | 0.11 | 0.41 | U | 0.41 | 1.88 | ug/m3 |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | |
| Client Sample ID: | VL0411ABL01 | SDG No.: | Q1665 |
| Lab Sample ID: | VL0411ABL01 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042313.D | 1 | | 04/11/25 10:36 | VL041125 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.060 | 0.27 | U | 0.27 | 2.27 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.060 | 0.27 | U | 0.27 | 2.27 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.070 | 0.38 | U | 0.38 | 2.73 | ug/m3 |
| 124-48-1 | Dibromochloromethane | 0.070 | 0.60 | U | 0.60 | 4.26 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane | 0.070 | 0.54 | U | 0.54 | 0.77 | ug/m3 |
| 127-18-4 | Tetrachloroethene | 0.020 | 0.14 | U | 0.14 | 0.20 | ug/m3 |
| 108-90-7 | Chlorobenzene | 0.080 | 0.37 | U | 0.37 | 2.30 | ug/m3 |
| 100-41-4 | Ethyl Benzene | 0.12 | 0.52 | U | 0.52 | 2.17 | ug/m3 |
| 179601-23-1 | m/p-Xylene | 0.21 | 0.91 | U | 0.91 | 4.34 | ug/m3 |
| 95-47-6 | o-Xylene | 0.12 | 0.52 | U | 0.52 | 2.17 | ug/m3 |
| 100-42-5 | Styrene | 0.11 | 0.47 | U | 0.47 | 2.13 | ug/m3 |
| 75-25-2 | Bromoform | 0.060 | 0.62 | U | 0.62 | 5.17 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.010 | 0.070 | U | 0.070 | 0.21 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | 0.11 | 0.57 | U | 0.57 | 2.59 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.11 | 0.54 | U | 0.54 | 2.46 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.080 | 0.39 | U | 0.39 | 2.46 | ug/m3 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.080 | 0.48 | U | 0.48 | 3.01 | ug/m3 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.050 | 0.30 | U | 0.30 | 3.01 | ug/m3 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.080 | 0.48 | U | 0.48 | 3.01 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.090 | 0.67 | U | 0.67 | 3.71 | ug/m3 |
| 87-68-3 | Hexachloro-1,3-Butadiene | 0.090 | 0.96 | U | 0.96 | 5.33 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | 0.13 | 0.29 | U | 0.29 | 1.11 | ug/m3 |
| 91-20-3 | Naphthalene | 0.080 | 0.42 | U | 0.42 | 0.52 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | 0.12 | 0.59 | U | 0.59 | 2.46 | ug/m3 |
| 110-54-3 | Hexane | 0.11 | 0.39 | U | 0.39 | 1.76 | ug/m3 |
| 107-05-1 | Allyl Chloride | 0.15 | 0.47 | U | 0.47 | 1.57 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | 0.21 | 0.76 | U | 0.76 | 1.80 | ug/m3 |
| 80-62-6 | Methyl Methacrylate | 0.090 | 0.37 | U | 0.37 | 2.05 | ug/m3 |
| **SURROGATES** | | | | | | | |
| 460-00-4 | 1-Bromo-4-Fluorobenzene | 9.10 | | | 70 (65) - 130 (135) | 91% | SPK: 10 |
| **INTERNAL STANDARDS** | | | | | | | |
| 74-97-5 | Bromochloromethane | 180000 | | 2.79 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 445000 | | 3.962 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 374000 | | 8.885 | | | |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | |
| Client Sample ID: | VL0411ABL01 | SDG No.: | Q1665 |
| Lab Sample ID: | VL0411ABL01 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042313.D | 1 | | 04/11/25 10:36 | VL041125 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042313.D
Acq On : 11 Apr 2025 10:36
Operator : SY/MD
Sample : VL0411ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABL01

Quant Time: Apr 11 22:57:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

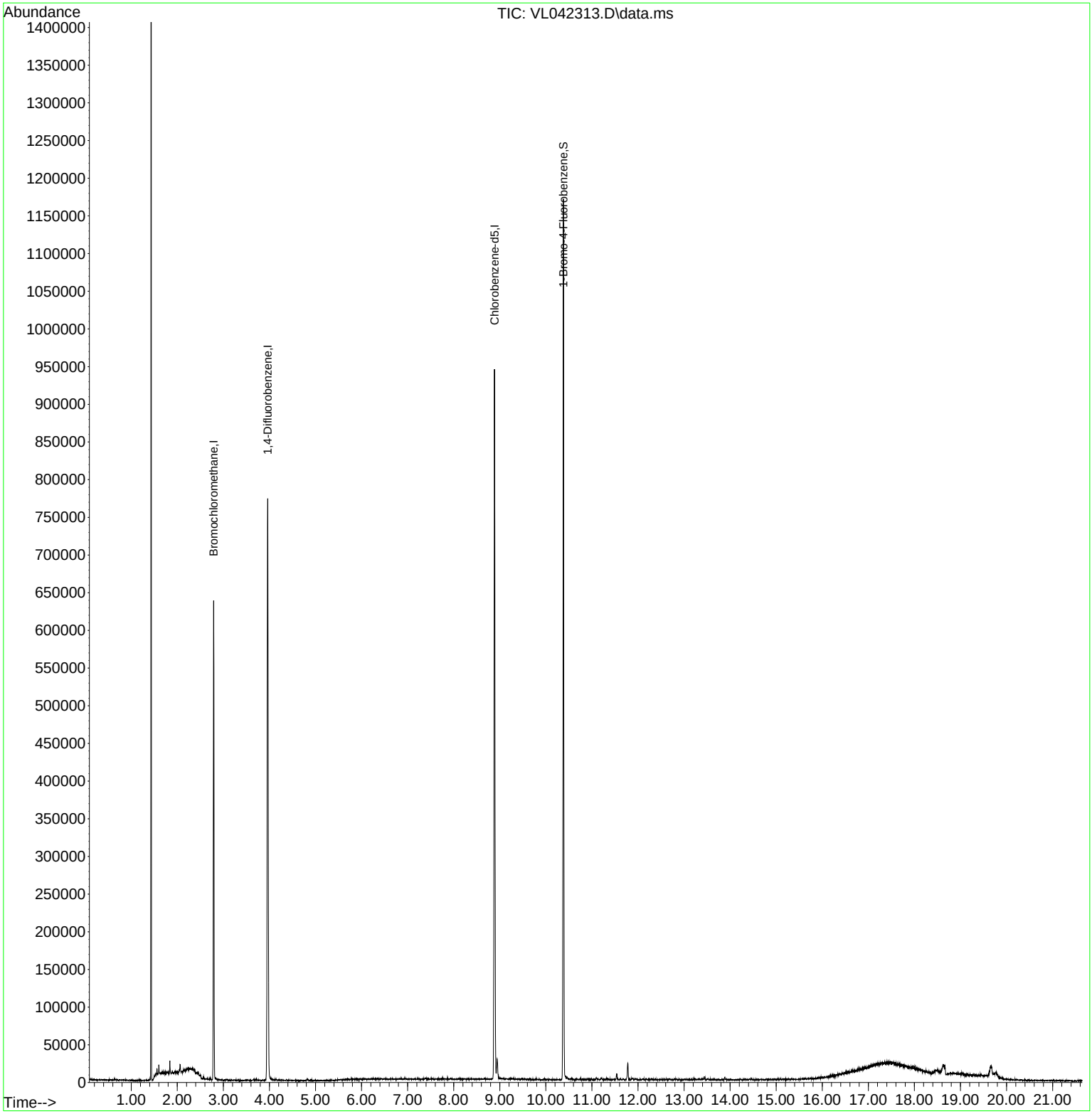
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.790 | 49 | 180225 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.962 | 114 | 445487 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.885 | 117 | 373548 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.380 | 95 | 277731 | 9.054 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 90.500% | | | |
| Target Compounds | | | | | | Qvalue |

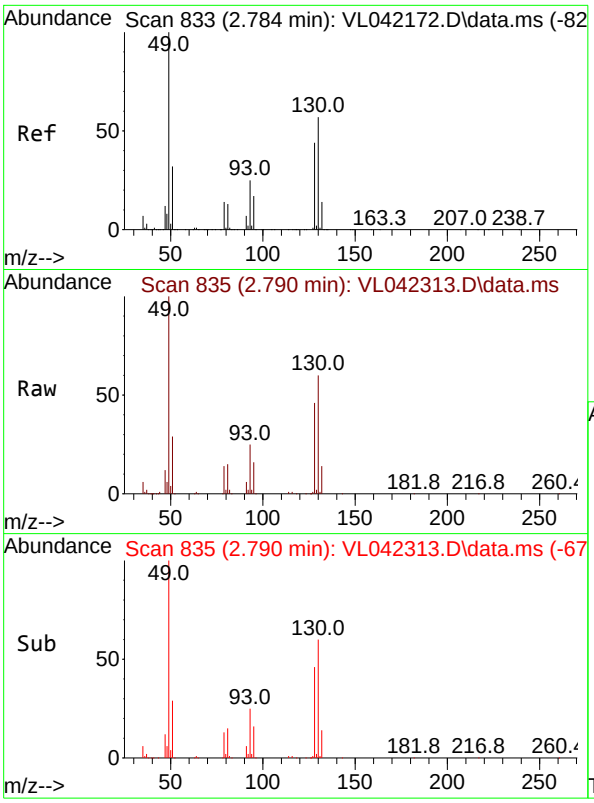
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042313.D
Acq On : 11 Apr 2025 10:36
Operator : SY/MD
Sample : VL0411ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABL01

Quant Time: Apr 11 22:57:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration



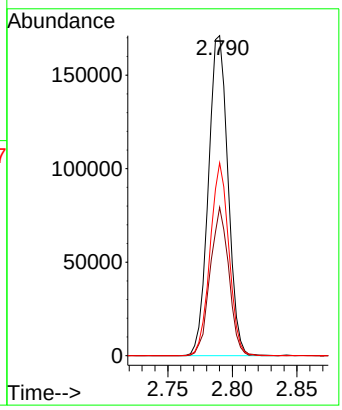


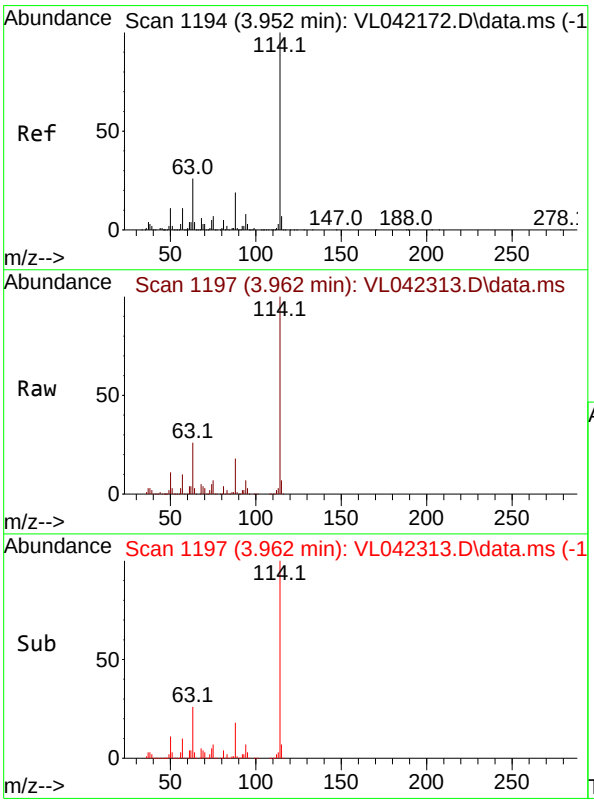

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL042313.D
Acq: 11 Apr 2025 10:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABL01

Tgt Ion: 49 Resp: 180225

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 44.2 | 22.9 | 68.5 |
| 130 | 57.8 | 28.8 | 86.4 |

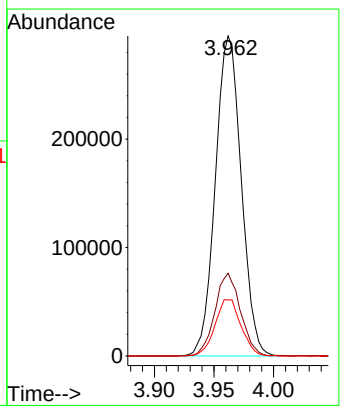


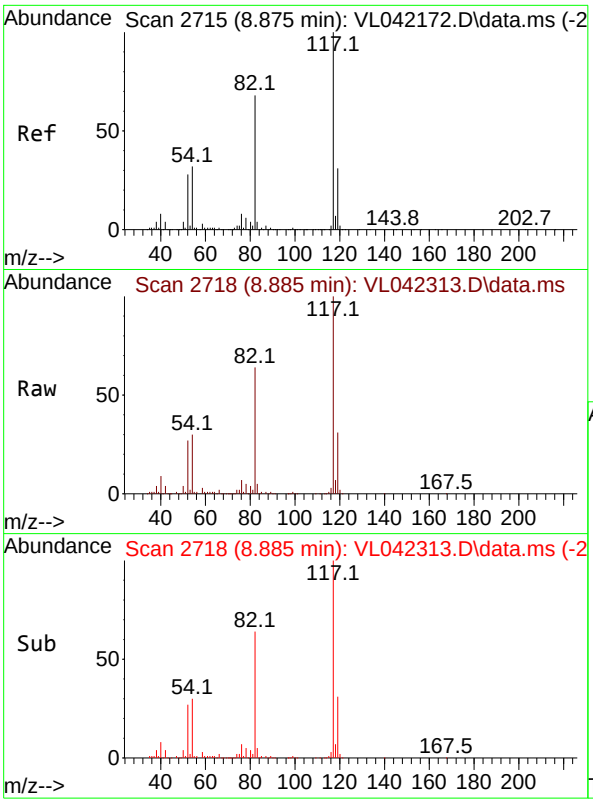




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.009 min
Lab File: VL042313.D
Acq: 11 Apr 2025 10:36

Tgt Ion:114 Resp: 445487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.6 | 20.7 | 31.1 |
| 88 | 17.8 | 15.0 | 22.4 |



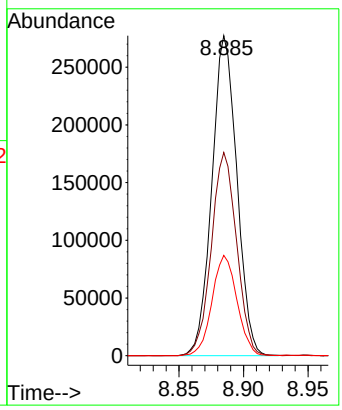


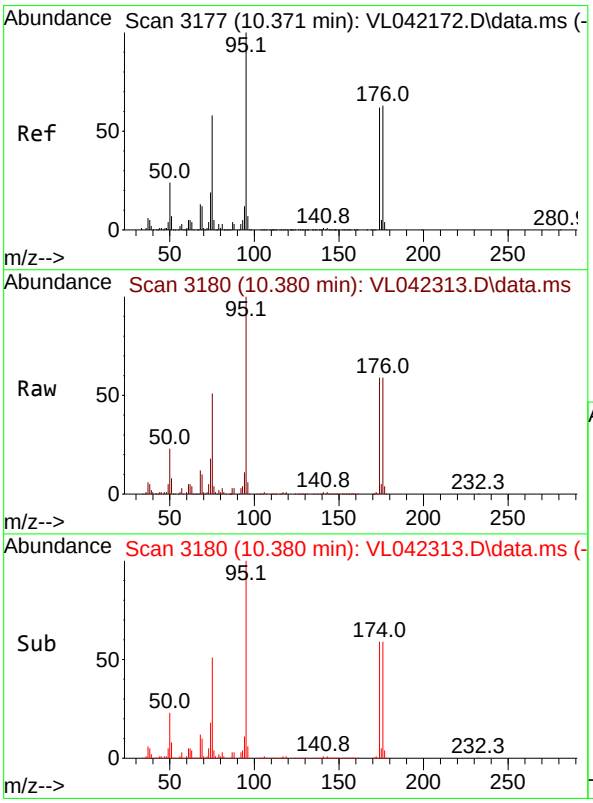

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.009 min
Lab File: VL042313.D
Acq: 11 Apr 2025 10:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABL01

Tgt Ion:117 Resp: 373548

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 64.2 | 55.8 | 83.6 |
| 119 | 31.6 | 25.5 | 38.3 |

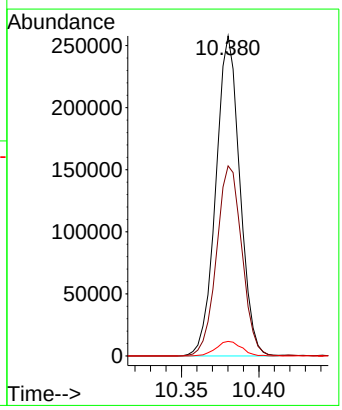



#68
1-Bromo-4-Fluorobenzene
Concen: 9.054 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.009 min
Lab File: VL042313.D
Acq: 11 Apr 2025 10:36

Tgt Ion: 95 Resp: 277731

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 63.3 | 50.6 | 76.0 |
| 175 | 4.9 | 3.8 | 5.6 |



LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042313.D
Acq On : 11 Apr 2025 10:36
Operator : SY/MD
Sample : VL0411ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

Signal : TIC: VL042313.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.431 | 411 | 415 | 420 | rVB | 1990683 | 1197691 | 91.53% | 20.924% |
| 2 | 2.790 | 825 | 835 | 844 | rBV | 635966 | 666008 | 50.90% | 11.636% |
| 3 | 3.962 | 1181 | 1197 | 1213 | rBV | 772287 | 1184615 | 90.53% | 20.696% |
| 4 | 8.885 | 2706 | 2718 | 2730 | rBV | 941712 | 1299252 | 99.29% | 22.699% |
| 5 | 8.943 | 2730 | 2736 | 2744 | rVB5 | 25149 | 38683 | 2.96% | 0.676% |
| 6 | 10.380 | 3169 | 3180 | 3193 | rBV | 1168757 | 1308486 | 100.00% | 22.860% |
| 7 | 11.778 | 3601 | 3612 | 3618 | rVB4 | 22305 | 29140 | 2.23% | 0.509% |

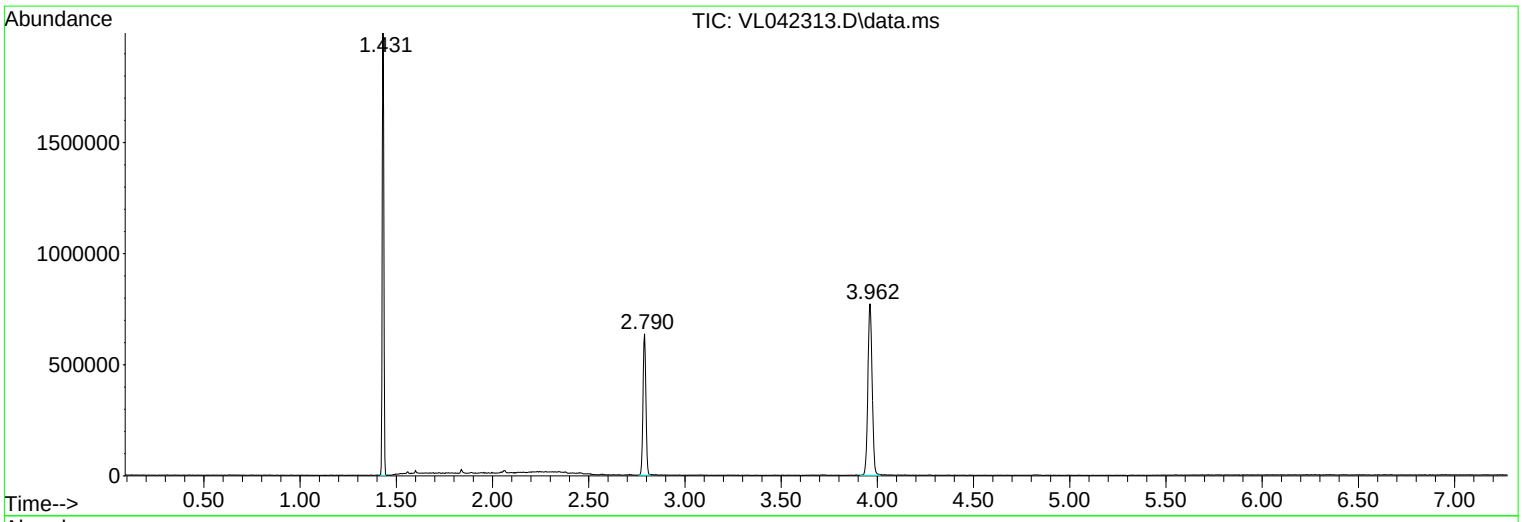
Sum of corrected areas: 5723875

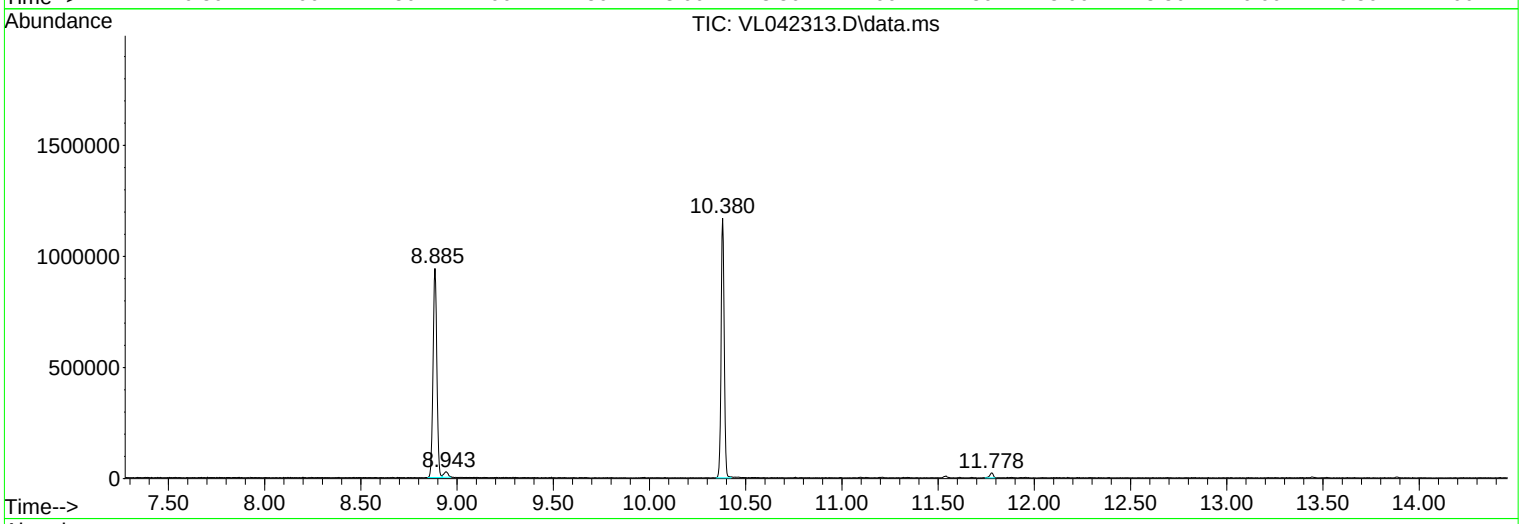
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042313.D
Acq On : 11 Apr 2025 10:36
Operator : SY/MD
Sample : VL0411ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

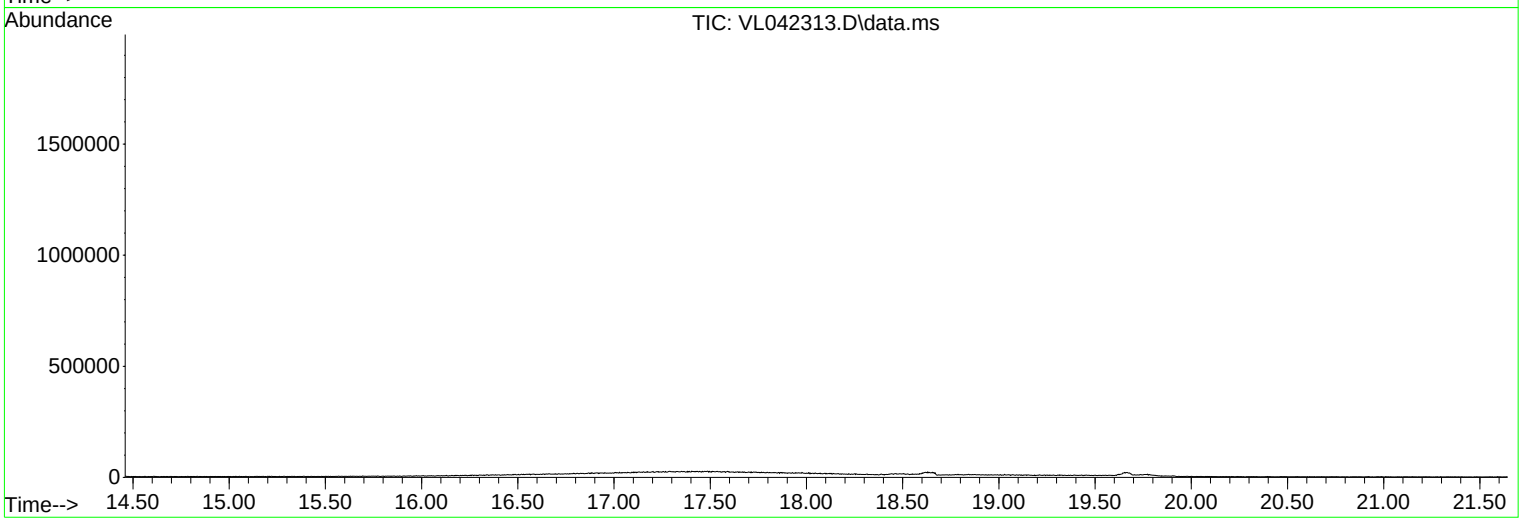
**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042313.D
Acq On : 11 Apr 2025 10:36
Operator : SY/MD
Sample : VL0411ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
**********

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042313.D
Acq On : 11 Apr 2025 10:36
Operator : SY/MD
Sample : VL0411ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | |
| Client Sample ID: | VL0415ABL01 | SDG No.: | Q1665 |
| Lab Sample ID: | VL0415ABL01 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042327.D | 1 | | 04/15/25 12:12 | VL041525 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.21 | 1.04 | U | 1.04 | 2.47 | ug/m3 |
| 64-17-5 | Ethanol | 0.32 | 0.60 | U | 0.60 | 0.94 | ug/m3 |
| 74-87-3 | Chloromethane | 0.10 | 0.21 | U | 0.21 | 1.03 | ug/m3 |
| 75-01-4 | Vinyl Chloride | 0.010 | 0.030 | U | 0.030 | 0.080 | ug/m3 |
| 74-83-9 | Bromomethane | 0.14 | 0.54 | U | 0.54 | 1.94 | ug/m3 |
| 75-00-3 | Chloroethane | 0.17 | 0.45 | U | 0.45 | 1.32 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | 0.13 | 0.38 | U | 0.38 | 1.47 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | 0.16 | 0.90 | U | 0.90 | 2.81 | ug/m3 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.16 | 1.23 | U | 1.23 | 3.83 | ug/m3 |
| 76-14-2 | Dichlorotetrafluoroethane | 0.090 | 0.63 | U | 0.63 | 3.49 | ug/m3 |
| 593-60-2 | Bromoethene | 0.12 | 0.52 | U | 0.52 | 2.19 | ug/m3 |
| 75-65-0 | tert-Butyl alcohol | 0.19 | 0.58 | U | 0.58 | 1.52 | ug/m3 |
| 142-82-5 | Heptane | 0.11 | 0.45 | U | 0.45 | 2.05 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | 0.070 | 0.17 | U | 0.17 | 1.23 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethene | 0.14 | 0.56 | U | 0.56 | 1.98 | ug/m3 |
| 67-64-1 | Acetone | 0.24 | 0.57 | U | 0.57 | 1.19 | ug/m3 |
| 75-15-0 | Carbon Disulfide | 0.16 | 0.50 | U | 0.50 | 1.56 | ug/m3 |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.12 | 0.43 | U | 0.43 | 1.80 | ug/m3 |
| 75-09-2 | Methylene Chloride | 0.19 | 0.66 | U | 0.66 | 1.74 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.19 | 0.75 | U | 0.75 | 1.98 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | 0.13 | 0.53 | U | 0.53 | 2.02 | ug/m3 |
| 110-82-7 | Cyclohexane | 0.22 | 0.76 | U | 0.76 | 1.72 | ug/m3 |
| 78-93-3 | 2-Butanone | 0.12 | 0.35 | U | 0.35 | 1.47 | ug/m3 |
| 56-23-5 | Carbon Tetrachloride | 0.010 | 0.060 | U | 0.060 | 0.19 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.090 | 0.36 | U | 0.36 | 1.98 | ug/m3 |
| 67-66-3 | Chloroform | 0.080 | 0.39 | U | 0.39 | 2.44 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.010 | 0.050 | U | 0.050 | 0.16 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | 0.10 | 0.47 | U | 0.47 | 2.34 | ug/m3 |
| 71-43-2 | Benzene | 0.090 | 0.29 | U | 0.29 | 1.60 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | 0.090 | 0.36 | U | 0.36 | 2.02 | ug/m3 |
| 79-01-6 | Trichloroethene | 0.020 | 0.11 | U | 0.11 | 0.16 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | 0.11 | 0.51 | U | 0.51 | 2.31 | ug/m3 |
| 75-27-4 | Bromodichloromethane | 0.080 | 0.54 | U | 0.54 | 3.35 | ug/m3 |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.090 | 0.37 | U | 0.37 | 2.05 | ug/m3 |
| 108-88-3 | Toluene | 0.11 | 0.41 | U | 0.41 | 1.88 | ug/m3 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | |
| Client Sample ID: | VL0415ABL01 | SDG No.: | Q1665 |
| Lab Sample ID: | VL0415ABL01 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042327.D | 1 | | 04/15/25 12:12 | VL041525 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.060 | 0.27 | U | 0.27 | 2.27 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.060 | 0.27 | U | 0.27 | 2.27 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.070 | 0.38 | U | 0.38 | 2.73 | ug/m3 |
| 124-48-1 | Dibromochloromethane | 0.070 | 0.60 | U | 0.60 | 4.26 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane | 0.070 | 0.54 | U | 0.54 | 0.77 | ug/m3 |
| 127-18-4 | Tetrachloroethene | 0.020 | 0.14 | U | 0.14 | 0.20 | ug/m3 |
| 108-90-7 | Chlorobenzene | 0.080 | 0.37 | U | 0.37 | 2.30 | ug/m3 |
| 100-41-4 | Ethyl Benzene | 0.12 | 0.52 | U | 0.52 | 2.17 | ug/m3 |
| 179601-23-1 | m/p-Xylene | 0.21 | 0.91 | U | 0.91 | 4.34 | ug/m3 |
| 95-47-6 | o-Xylene | 0.12 | 0.52 | U | 0.52 | 2.17 | ug/m3 |
| 100-42-5 | Styrene | 0.11 | 0.47 | U | 0.47 | 2.13 | ug/m3 |
| 75-25-2 | Bromoform | 0.060 | 0.62 | U | 0.62 | 5.17 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.010 | 0.070 | U | 0.070 | 0.21 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | 0.11 | 0.57 | U | 0.57 | 2.59 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.11 | 0.54 | U | 0.54 | 2.46 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.080 | 0.39 | U | 0.39 | 2.46 | ug/m3 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.080 | 0.48 | U | 0.48 | 3.01 | ug/m3 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.050 | 0.30 | U | 0.30 | 3.01 | ug/m3 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.080 | 0.48 | U | 0.48 | 3.01 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.090 | 0.67 | U | 0.67 | 3.71 | ug/m3 |
| 87-68-3 | Hexachloro-1,3-Butadiene | 0.090 | 0.96 | U | 0.96 | 5.33 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | 0.13 | 0.29 | U | 0.29 | 1.11 | ug/m3 |
| 91-20-3 | Naphthalene | 0.080 | 0.42 | U | 0.42 | 0.52 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | 0.12 | 0.59 | U | 0.59 | 2.46 | ug/m3 |
| 110-54-3 | Hexane | 0.11 | 0.39 | U | 0.39 | 1.76 | ug/m3 |
| 107-05-1 | Allyl Chloride | 0.15 | 0.47 | U | 0.47 | 1.57 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | 0.21 | 0.76 | U | 0.76 | 1.80 | ug/m3 |
| 80-62-6 | Methyl Methacrylate | 0.090 | 0.37 | U | 0.37 | 2.05 | ug/m3 |
| **SURROGATES** | | | | | | | |
| 460-00-4 | 1-Bromo-4-Fluorobenzene | 9.30 | | | 70 (65) - 130 (135) | 93% | SPK: 10 |
| **INTERNAL STANDARDS** | | | | | | | |
| 74-97-5 | Bromochloromethane | 174000 | | 2.813 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 447000 | | 3.994 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 385000 | | 8.917 | | | |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | |
| Client Sample ID: | VL0415ABL01 | SDG No.: | Q1665 |
| Lab Sample ID: | VL0415ABL01 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042327.D | 1 | | 04/15/25 12:12 | VL041525 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
Data File : VL042327.D
Acq On : 15 Apr 2025 12:12
Operator : SY/MD
Sample : VL0415ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABL01

Quant Time: Apr 16 01:30:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

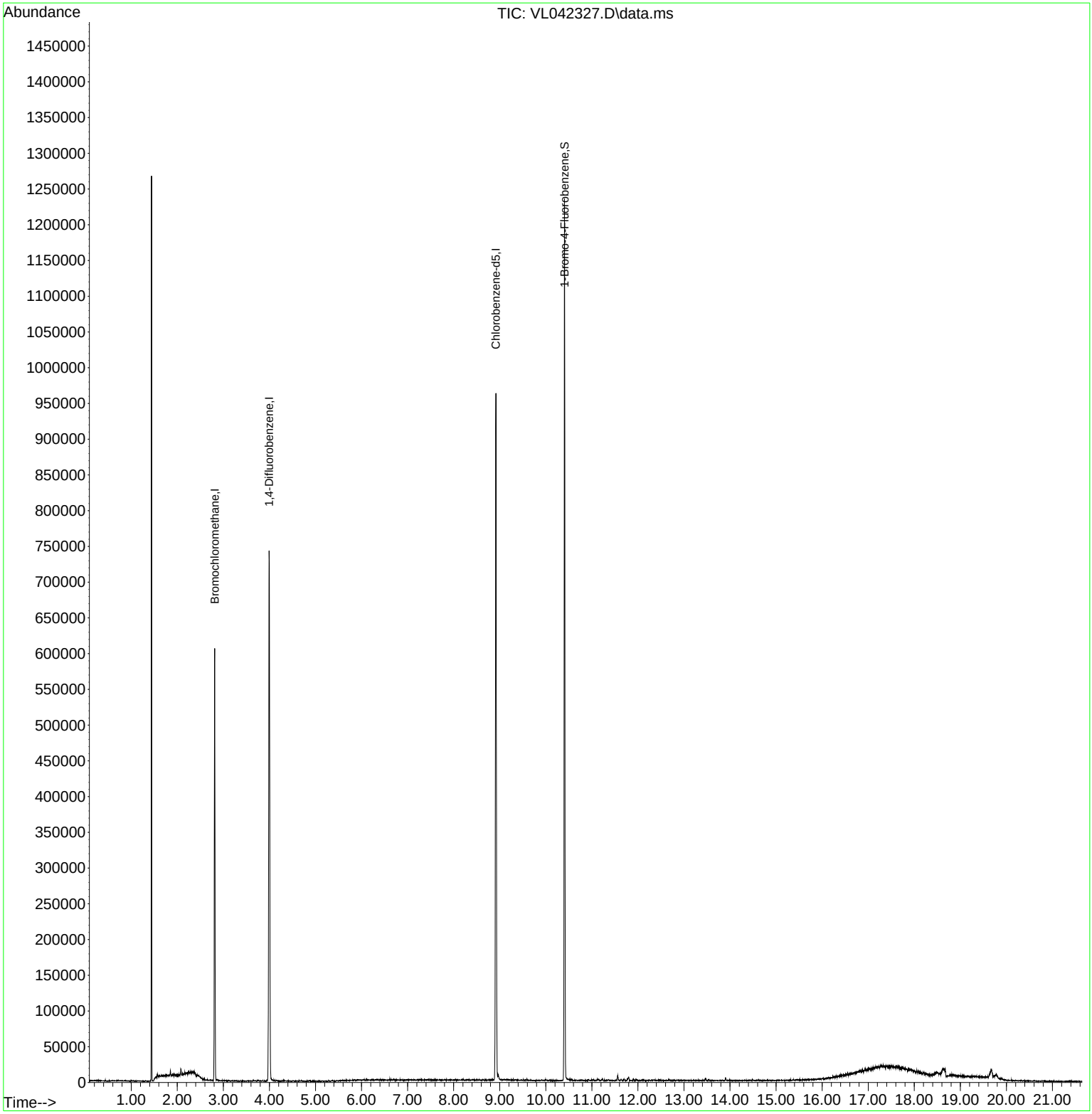
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.813 | 49 | 173729 | 10.000 | ppbv | 0.03 |
| 33) 1,4-Difluorobenzene | 3.994 | 114 | 447320 | 10.000 | ppbv | 0.04 |
| 55) Chlorobenzene-d5 | 8.917 | 117 | 385318 | 10.000 | ppbv | 0.04 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.406 | 95 | 292759 | 9.252 | ppbv | 0.04 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 92.500% | | | |
| Target Compounds | | | | | | Qvalue |

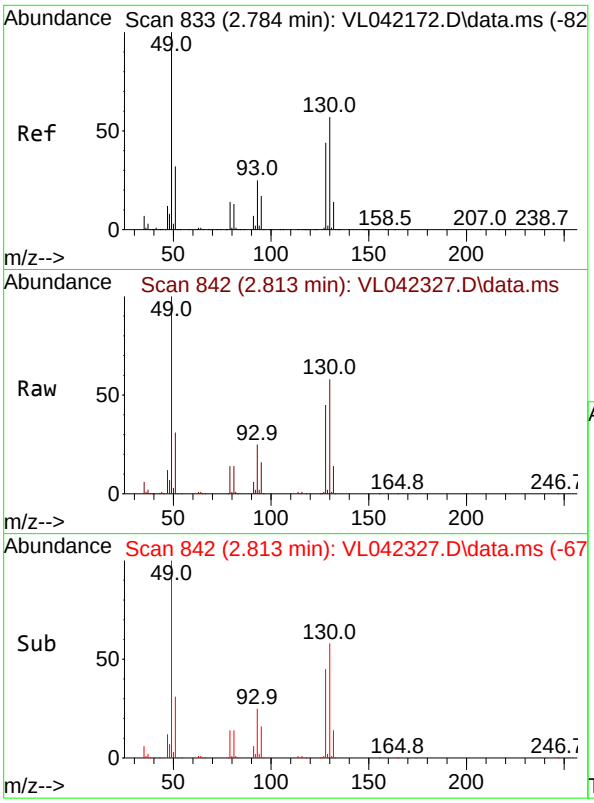
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
Data File : VL042327.D
Acq On : 15 Apr 2025 12:12
Operator : SY/MD
Sample : VL0415ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABL01

Quant Time: Apr 16 01:30:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration



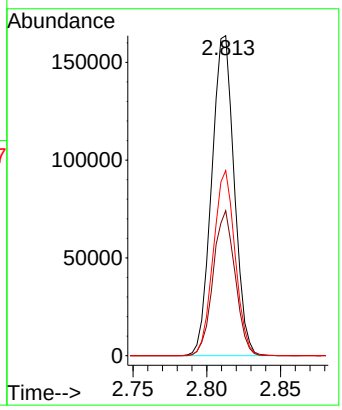


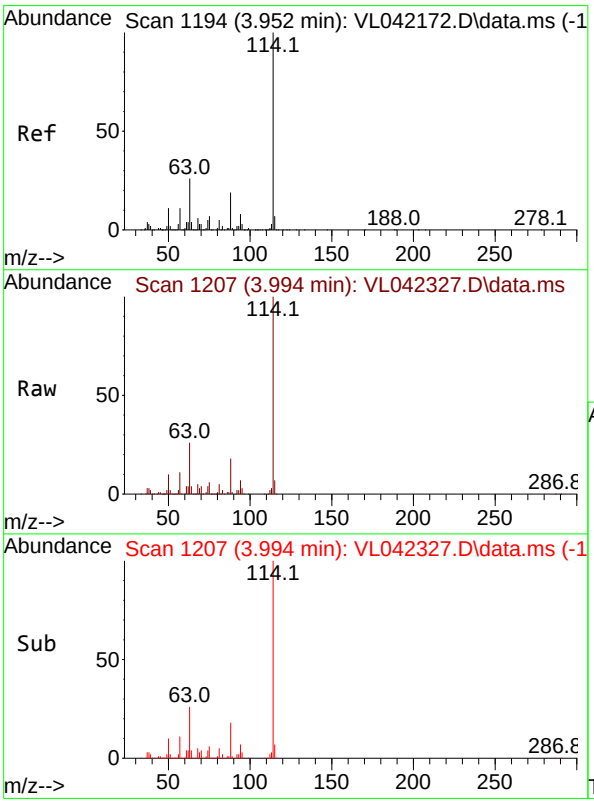

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.813 min Scan# 84
Delta R.T. 0.029 min
Lab File: VL042327.D
Acq: 15 Apr 2025 12:12

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABL01

Tgt Ion: 49 Resp: 173729

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 44.3 | 22.9 | 68.5 |
| 130 | 56.2 | 28.8 | 86.4 |

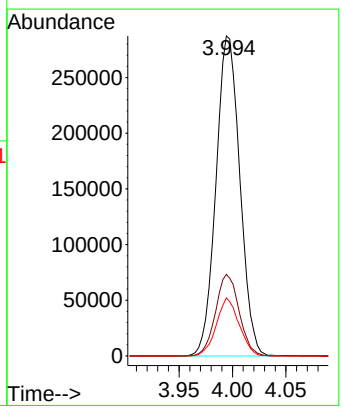


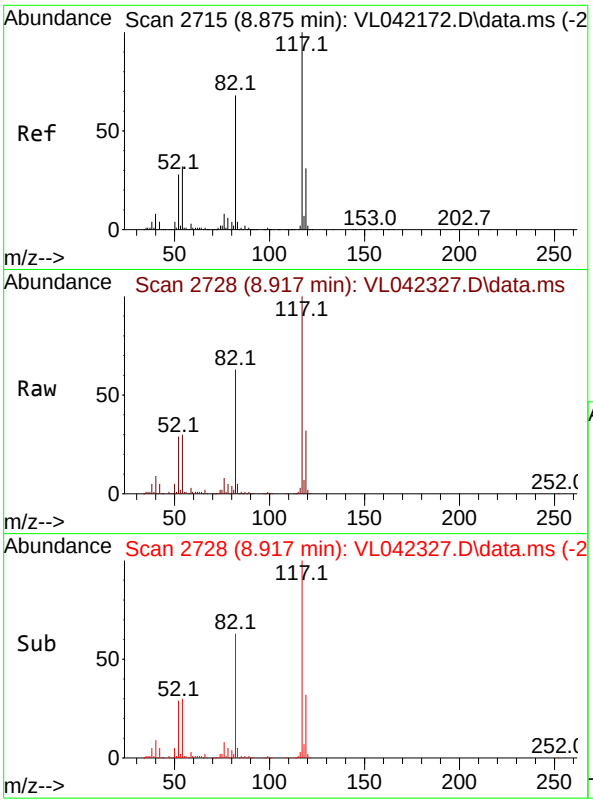




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.994 min Scan# 1207
Delta R.T. 0.042 min
Lab File: VL042327.D
Acq: 15 Apr 2025 12:12

Tgt Ion:114 Resp: 447320

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.2 | 20.7 | 31.1 |
| 88 | 17.3 | 15.0 | 22.4 |



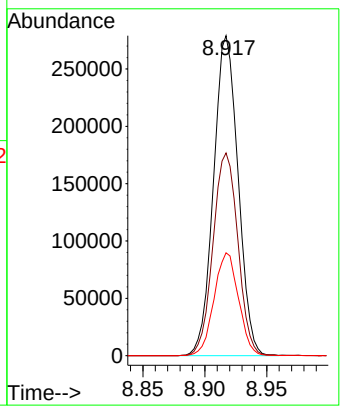


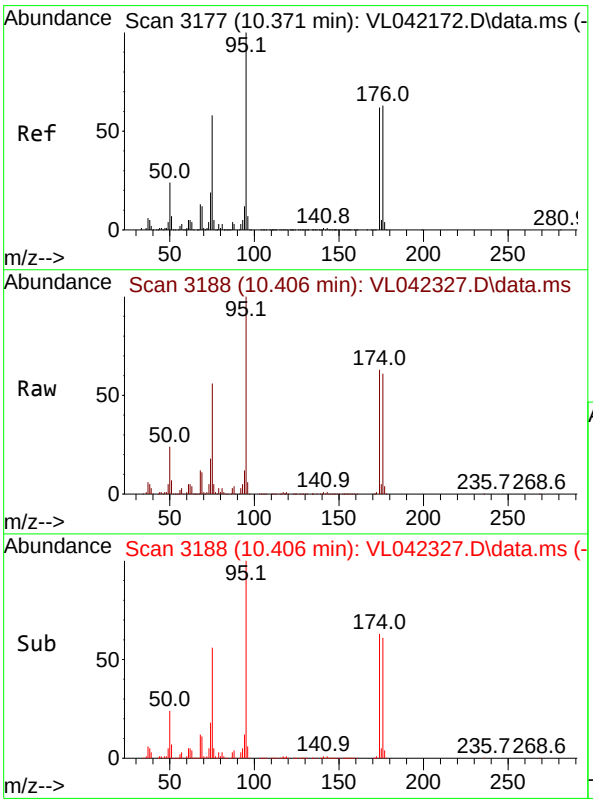

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.917 min Scan# 2
Delta R.T. 0.042 min
Lab File: VL042327.D
Acq: 15 Apr 2025 12:12

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABL01

Tgt Ion:117 Resp: 385318

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 64.3 | 55.8 | 83.6 |
| 119 | 32.2 | 25.5 | 38.3 |

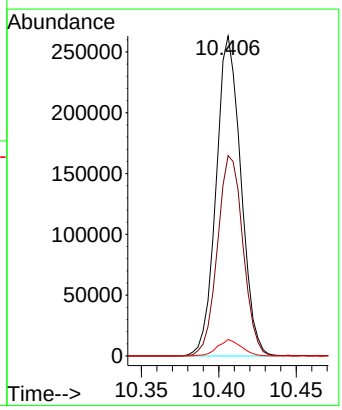



#68
1-Bromo-4-Fluorobenzene
Concen: 9.252 ppbv
RT: 10.406 min Scan# 3188
Delta R.T. 0.035 min
Lab File: VL042327.D
Acq: 15 Apr 2025 12:12

Tgt Ion: 95 Resp: 292759

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 64.8 | 50.6 | 76.0 |
| 175 | 4.9 | 3.8 | 5.6 |



LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
Data File : VL042327.D
Acq On : 15 Apr 2025 12:12
Operator : SY/MD
Sample : VL0415ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

Signal : TIC: VL042327.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.440 | 413 | 418 | 422 | rBV | 1265881 | 704065 | 50.36% | 13.420% |
| 2 | 2.813 | 832 | 842 | 850 | rBV | 605384 | 638413 | 45.66% | 12.169% |
| 3 | 3.994 | 1195 | 1207 | 1220 | rBV | 741875 | 1165038 | 83.32% | 22.206% |
| 4 | 8.917 | 2714 | 2728 | 2739 | rBV | 960985 | 1340727 | 95.89% | 25.555% |
| 5 | 10.406 | 3177 | 3188 | 3199 | rBV | 1233348 | 1398189 | 100.00% | 26.650% |

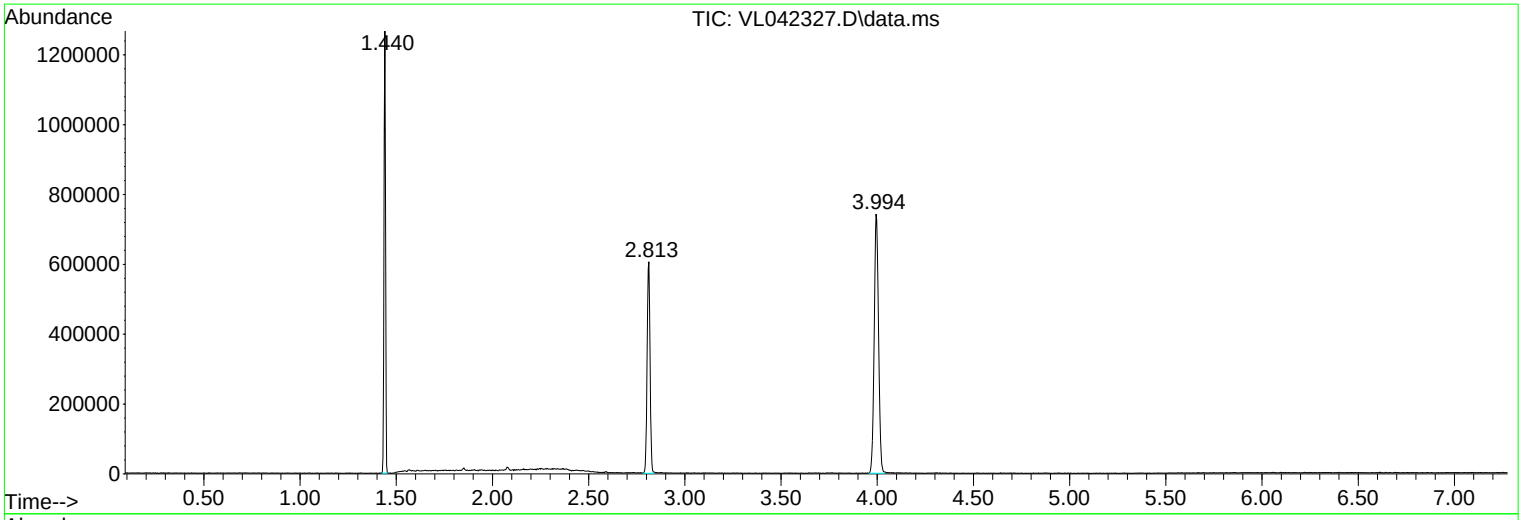
Sum of corrected areas: 5246432

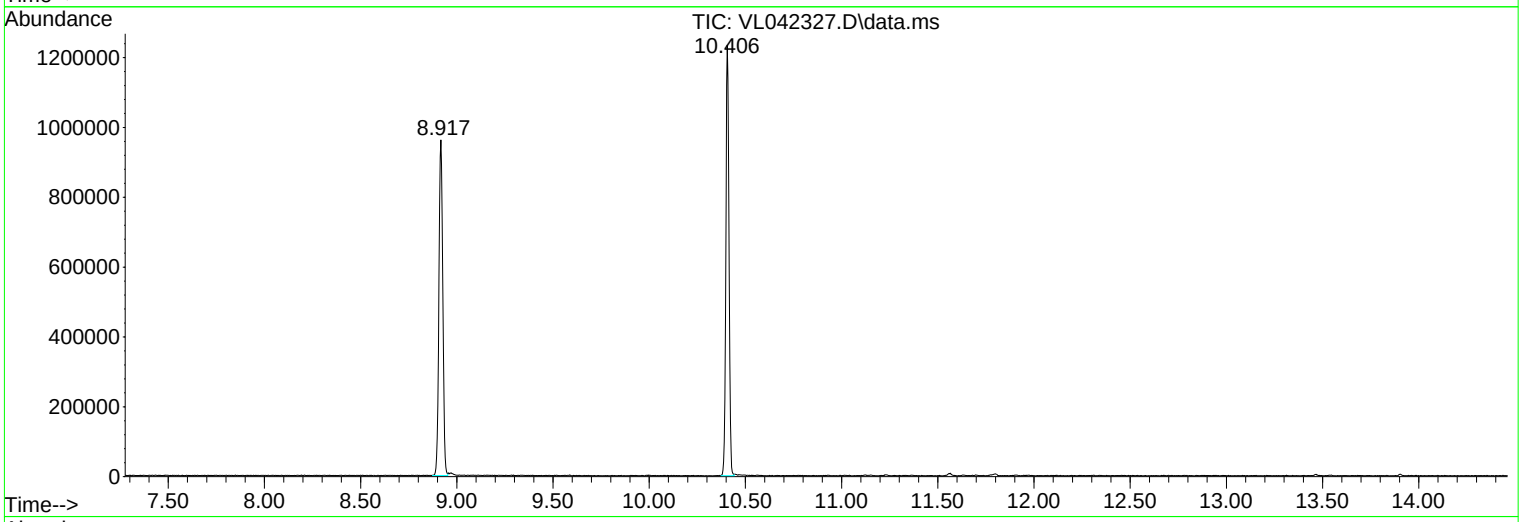
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
Data File : VL042327.D
Acq On : 15 Apr 2025 12:12
Operator : SY/MD
Sample : VL0415ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

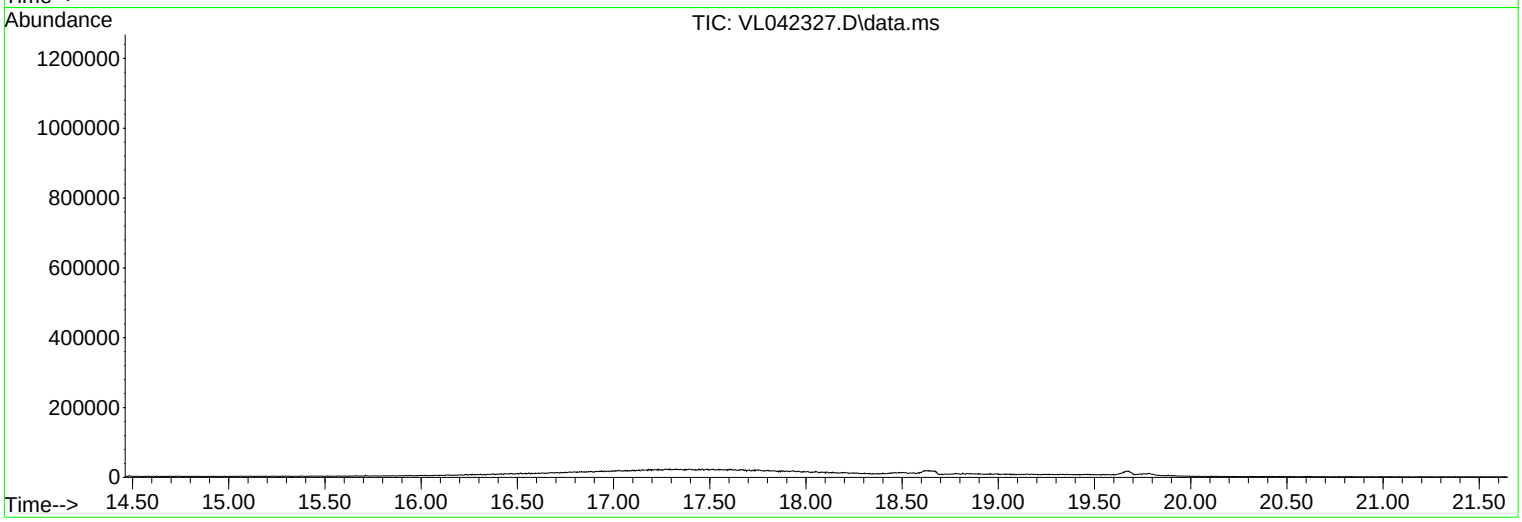
**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
Data File : VL042327.D
Acq On : 15 Apr 2025 12:12
Operator : SY/MD
Sample : VL0415ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
**********

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
Data File : VL042327.D
Acq On : 15 Apr 2025 12:12
Operator : SY/MD
Sample : VL0415ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | |
| Client Sample ID: | VL0417ABL01 | SDG No.: | Q1665 |
| Lab Sample ID: | VL0417ABL01 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042357.D | 1 | | 04/17/25 14:23 | VL041725 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.21 | 1.04 | U | 1.04 | 2.47 | ug/m3 |
| 64-17-5 | Ethanol | 0.32 | 0.60 | U | 0.60 | 0.94 | ug/m3 |
| 74-87-3 | Chloromethane | 0.10 | 0.21 | U | 0.21 | 1.03 | ug/m3 |
| 75-01-4 | Vinyl Chloride | 0.010 | 0.030 | U | 0.030 | 0.080 | ug/m3 |
| 74-83-9 | Bromomethane | 0.14 | 0.54 | U | 0.54 | 1.94 | ug/m3 |
| 75-00-3 | Chloroethane | 0.17 | 0.45 | U | 0.45 | 1.32 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | 0.13 | 0.38 | U | 0.38 | 1.47 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | 0.16 | 0.90 | U | 0.90 | 2.81 | ug/m3 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.16 | 1.23 | U | 1.23 | 3.83 | ug/m3 |
| 76-14-2 | Dichlorotetrafluoroethane | 0.090 | 0.63 | U | 0.63 | 3.49 | ug/m3 |
| 593-60-2 | Bromoethene | 0.12 | 0.52 | U | 0.52 | 2.19 | ug/m3 |
| 75-65-0 | tert-Butyl alcohol | 0.19 | 0.58 | U | 0.58 | 1.52 | ug/m3 |
| 142-82-5 | Heptane | 0.11 | 0.45 | U | 0.45 | 2.05 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | 0.070 | 0.17 | U | 0.17 | 1.23 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethene | 0.14 | 0.56 | U | 0.56 | 1.98 | ug/m3 |
| 67-64-1 | Acetone | 0.24 | 0.57 | U | 0.57 | 1.19 | ug/m3 |
| 75-15-0 | Carbon Disulfide | 0.16 | 0.50 | U | 0.50 | 1.56 | ug/m3 |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.12 | 0.43 | U | 0.43 | 1.80 | ug/m3 |
| 75-09-2 | Methylene Chloride | 0.19 | 0.66 | U | 0.66 | 1.74 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.19 | 0.75 | U | 0.75 | 1.98 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | 0.13 | 0.53 | U | 0.53 | 2.02 | ug/m3 |
| 110-82-7 | Cyclohexane | 0.22 | 0.76 | U | 0.76 | 1.72 | ug/m3 |
| 78-93-3 | 2-Butanone | 0.12 | 0.35 | U | 0.35 | 1.47 | ug/m3 |
| 56-23-5 | Carbon Tetrachloride | 0.010 | 0.060 | U | 0.060 | 0.19 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.090 | 0.36 | U | 0.36 | 1.98 | ug/m3 |
| 67-66-3 | Chloroform | 0.080 | 0.39 | U | 0.39 | 2.44 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.010 | 0.050 | U | 0.050 | 0.16 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | 0.10 | 0.47 | U | 0.47 | 2.34 | ug/m3 |
| 71-43-2 | Benzene | 0.090 | 0.29 | U | 0.29 | 1.60 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | 0.090 | 0.36 | U | 0.36 | 2.02 | ug/m3 |
| 79-01-6 | Trichloroethene | 0.020 | 0.11 | U | 0.11 | 0.16 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | 0.11 | 0.51 | U | 0.51 | 2.31 | ug/m3 |
| 75-27-4 | Bromodichloromethane | 0.080 | 0.54 | U | 0.54 | 3.35 | ug/m3 |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.090 | 0.37 | U | 0.37 | 2.05 | ug/m3 |
| 108-88-3 | Toluene | 0.11 | 0.41 | U | 0.41 | 1.88 | ug/m3 |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | |
| Client Sample ID: | VL0417ABL01 | SDG No.: | Q1665 |
| Lab Sample ID: | VL0417ABL01 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042357.D | 1 | | 04/17/25 14:23 | VL041725 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.060 | 0.27 | U | 0.27 | 2.27 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.060 | 0.27 | U | 0.27 | 2.27 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.070 | 0.38 | U | 0.38 | 2.73 | ug/m3 |
| 124-48-1 | Dibromochloromethane | 0.070 | 0.60 | U | 0.60 | 4.26 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane | 0.070 | 0.54 | U | 0.54 | 0.77 | ug/m3 |
| 127-18-4 | Tetrachloroethene | 0.020 | 0.14 | U | 0.14 | 0.20 | ug/m3 |
| 108-90-7 | Chlorobenzene | 0.080 | 0.37 | U | 0.37 | 2.30 | ug/m3 |
| 100-41-4 | Ethyl Benzene | 0.12 | 0.52 | U | 0.52 | 2.17 | ug/m3 |
| 179601-23-1 | m/p-Xylene | 0.21 | 0.91 | U | 0.91 | 4.34 | ug/m3 |
| 95-47-6 | o-Xylene | 0.12 | 0.52 | U | 0.52 | 2.17 | ug/m3 |
| 100-42-5 | Styrene | 0.11 | 0.47 | U | 0.47 | 2.13 | ug/m3 |
| 75-25-2 | Bromoform | 0.060 | 0.62 | U | 0.62 | 5.17 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.010 | 0.070 | U | 0.070 | 0.21 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | 0.11 | 0.57 | U | 0.57 | 2.59 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.11 | 0.54 | U | 0.54 | 2.46 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.080 | 0.39 | U | 0.39 | 2.46 | ug/m3 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.080 | 0.48 | U | 0.48 | 3.01 | ug/m3 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.050 | 0.30 | U | 0.30 | 3.01 | ug/m3 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.080 | 0.48 | U | 0.48 | 3.01 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.090 | 0.67 | U | 0.67 | 3.71 | ug/m3 |
| 87-68-3 | Hexachloro-1,3-Butadiene | 0.090 | 0.96 | U | 0.96 | 5.33 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | 0.13 | 0.29 | U | 0.29 | 1.11 | ug/m3 |
| 91-20-3 | Naphthalene | 0.080 | 0.42 | U | 0.42 | 0.52 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | 0.12 | 0.59 | U | 0.59 | 2.46 | ug/m3 |
| 110-54-3 | Hexane | 0.11 | 0.39 | U | 0.39 | 1.76 | ug/m3 |
| 107-05-1 | Allyl Chloride | 0.15 | 0.47 | U | 0.47 | 1.57 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | 0.21 | 0.76 | U | 0.76 | 1.80 | ug/m3 |
| 80-62-6 | Methyl Methacrylate | 0.090 | 0.37 | U | 0.37 | 2.05 | ug/m3 |
| **SURROGATES** | | | | | | | |
| 460-00-4 | 1-Bromo-4-Fluorobenzene | 10.1 | | | 70 (65) - 130 (135) | 101% | SPK: 10 |
| **INTERNAL STANDARDS** | | | | | | | |
| 74-97-5 | Bromochloromethane | 114000 | | 2.79 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 329000 | | 3.965 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 298000 | | 8.885 | | | |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | |
| Client Sample ID: | VL0417ABL01 | SDG No.: | Q1665 |
| Lab Sample ID: | VL0417ABL01 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042357.D | 1 | | 04/17/25 14:23 | VL041725 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
Q = indicates LCS control criteria did not meet requirements

Quantitation Report (LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042357.D
Acq On : 17 Apr 2025 14:23
Operator : SY/MD
Sample : VL0417ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABL01

Quant Time: Apr 18 02:36:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

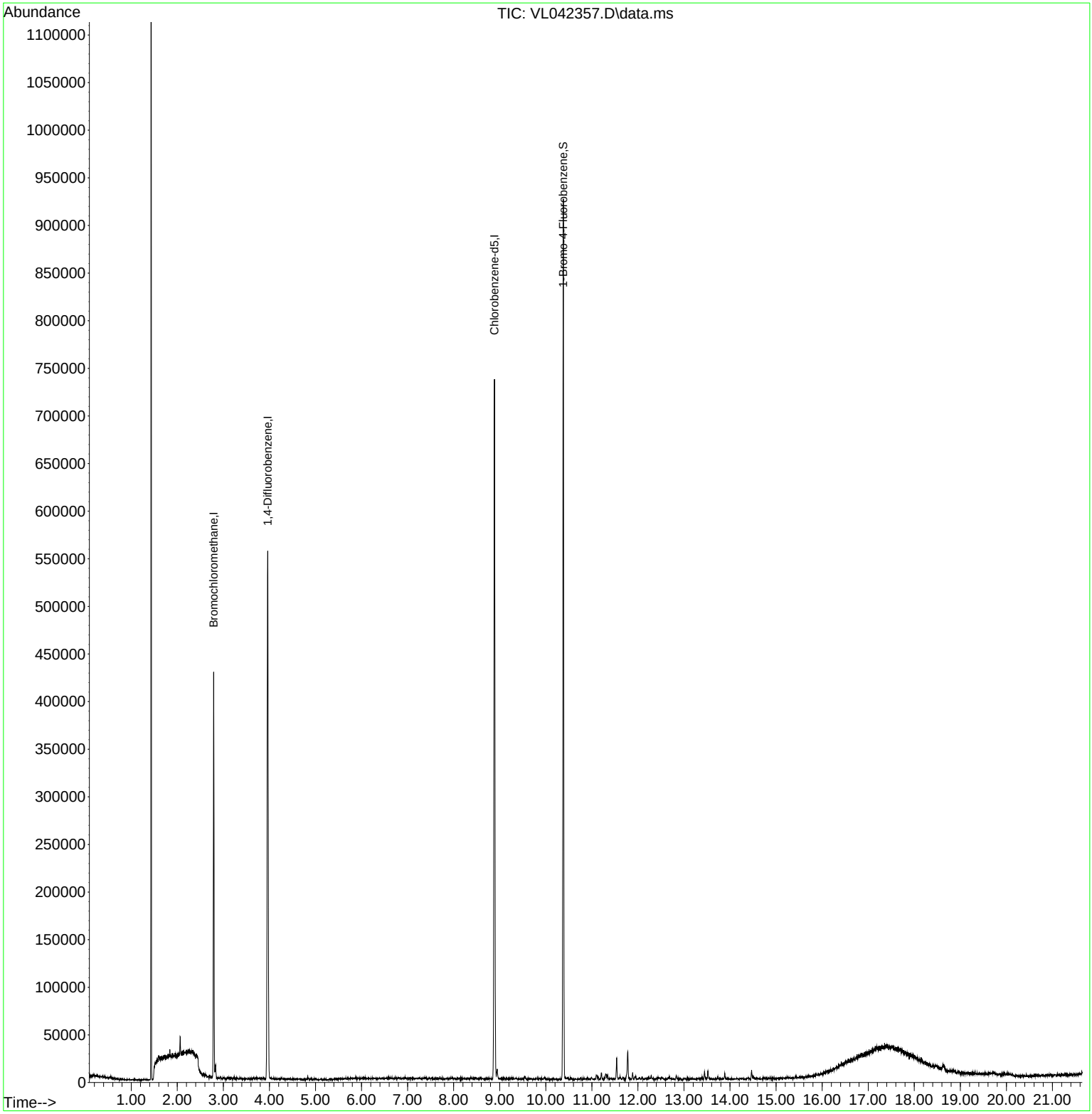
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.790 | 49 | 113566 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.965 | 114 | 328716 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.885 | 117 | 297633 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.380 | 95 | 247968 | 10.139 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 101.400% | | | |
| Target Compounds | | | | | | Qvalue |

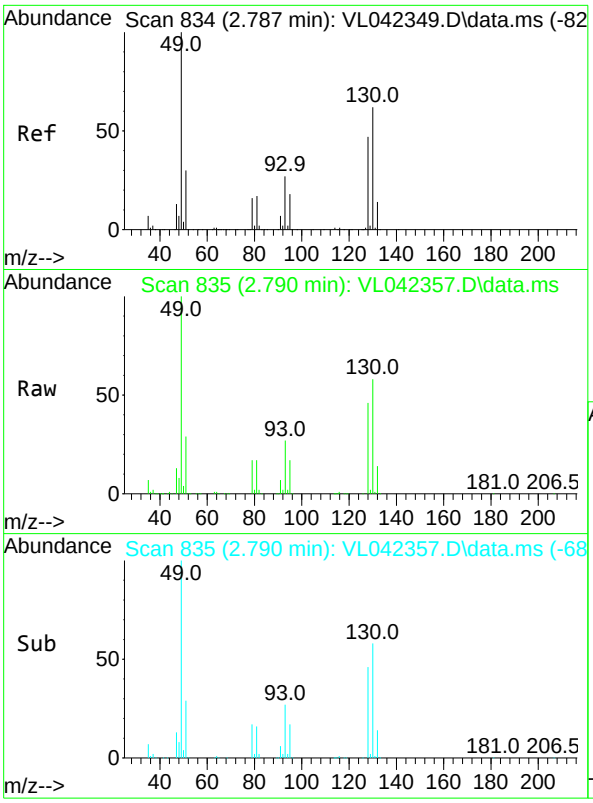
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042357.D
Acq On : 17 Apr 2025 14:23
Operator : SY/MD
Sample : VL0417ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABL01

Quant Time: Apr 18 02:36:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration



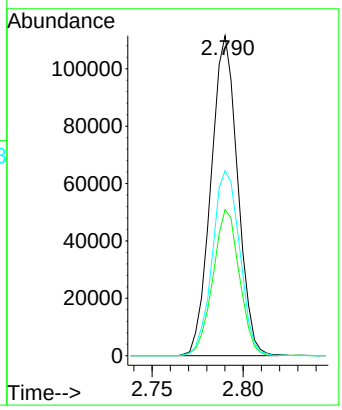


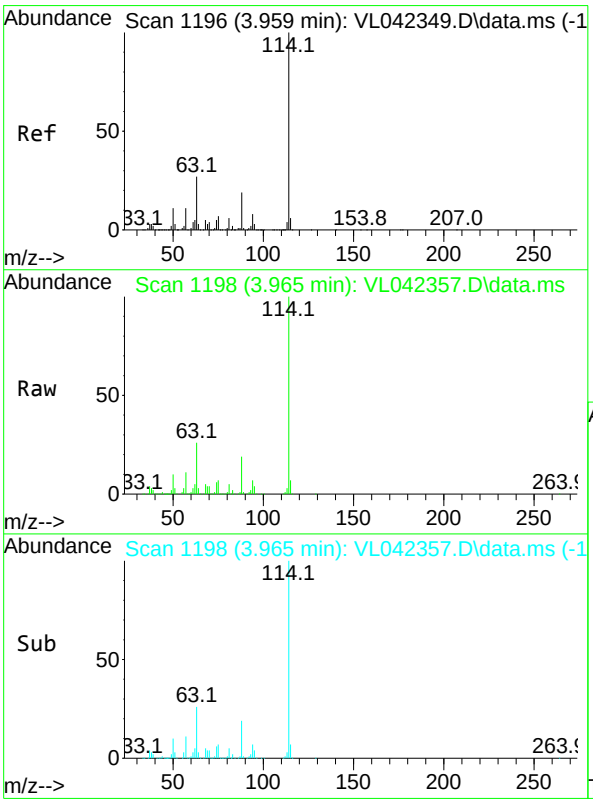

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042357.D
Acq: 17 Apr 2025 14:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABL01

Tgt Ion: 49 Resp: 113566

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 45.4 | 22.8 | 68.4 |
| 130 | 59.4 | 29.3 | 88.0 |

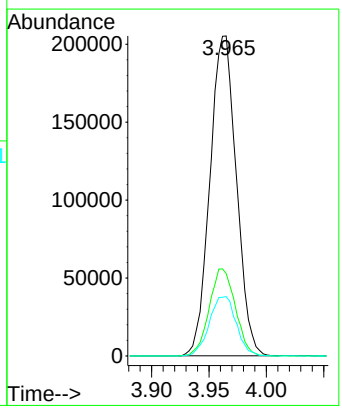


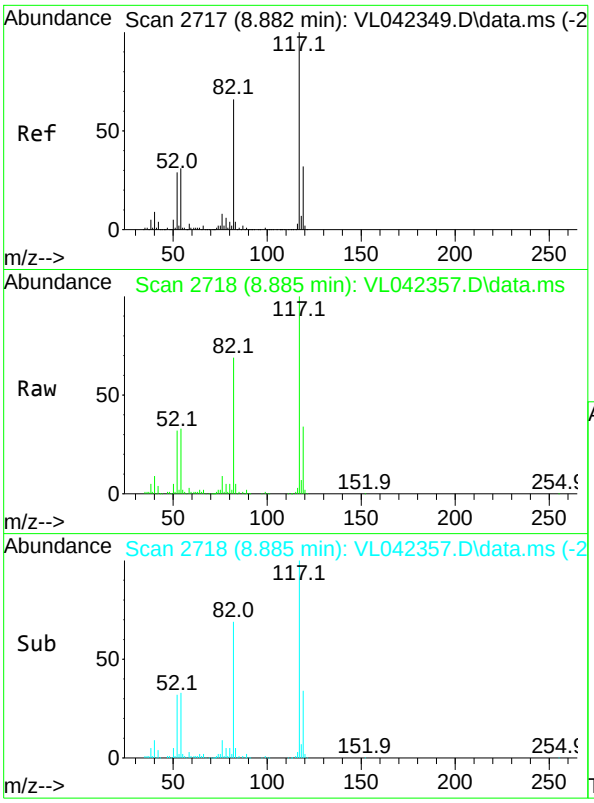




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. 0.006 min
Lab File: VL042357.D
Acq: 17 Apr 2025 14:23

Tgt Ion:114 Resp: 328716

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 27.0 | 21.8 | 32.6 |
| 88 | 18.9 | 15.5 | 23.3 |



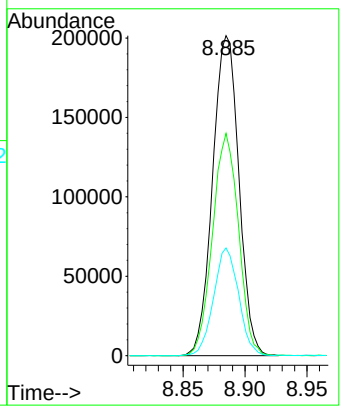


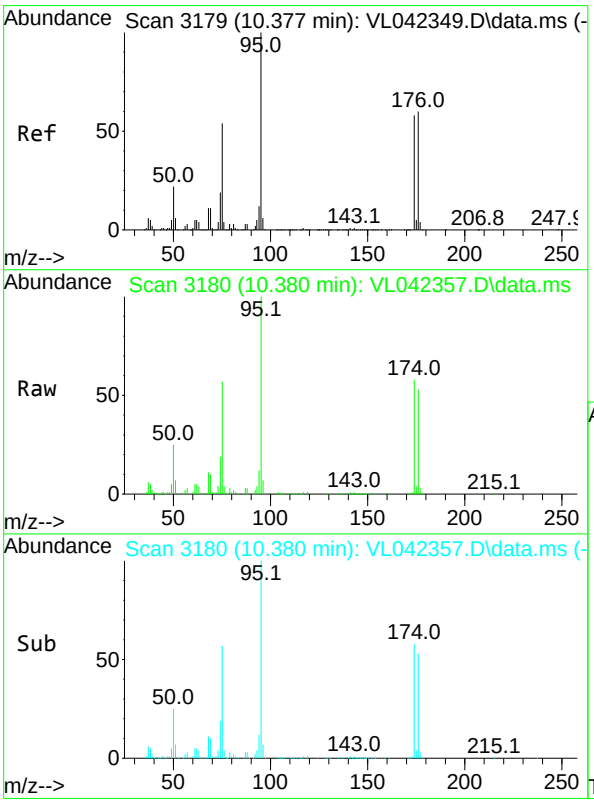

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042357.D
Acq: 17 Apr 2025 14:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABL01

Tgt Ion:117 Resp: 297633

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 68.6 | 57.8 | 86.6 |
| 119 | 32.2 | 25.2 | 37.8 |

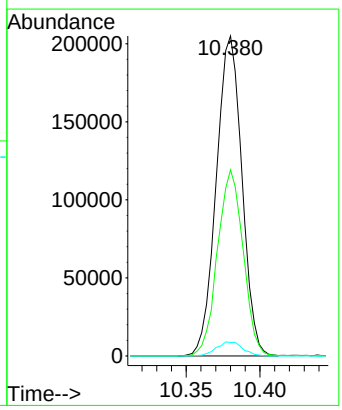



#68
1-Bromo-4-Fluorobenzene
Concen: 10.139 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.003 min
Lab File: VL042357.D
Acq: 17 Apr 2025 14:23

Tgt Ion: 95 Resp: 247968

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 58.2 | 48.5 | 72.7 |
| 175 | 4.5 | 3.7 | 5.5 |



LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042357.D
Acq On : 17 Apr 2025 14:23
Operator : SY/MD
Sample : VL0417ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

Signal : TIC: VL042357.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.431 | 411 | 415 | 420 | rBV | 1858765 | 1108891 | 96.98% | 23.258% |
| 2 | 1.515 | 427 | 441 | 442 | rBV8 | 17527 | 27664 | 2.42% | 0.580% |
| 3 | 2.437 | 724 | 726 | 736 | rVB6 | 14850 | 19624 | 1.72% | 0.412% |
| 4 | 2.790 | 826 | 835 | 842 | rBV | 426285 | 437188 | 38.23% | 9.169% |
| 5 | 3.962 | 1184 | 1197 | 1210 | rBV2 | 554736 | 884344 | 77.34% | 18.548% |
| 6 | 8.885 | 2707 | 2718 | 2730 | rBV | 733994 | 1074923 | 94.01% | 22.545% |
| 7 | 10.380 | 3166 | 3180 | 3191 | rBV | 925373 | 1143427 | 100.00% | 23.982% |
| 8 | 11.539 | 3527 | 3538 | 3547 | rBV3 | 22959 | 29990 | 2.62% | 0.629% |
| 9 | 11.778 | 3599 | 3612 | 3619 | rBV4 | 29173 | 41816 | 3.66% | 0.877% |

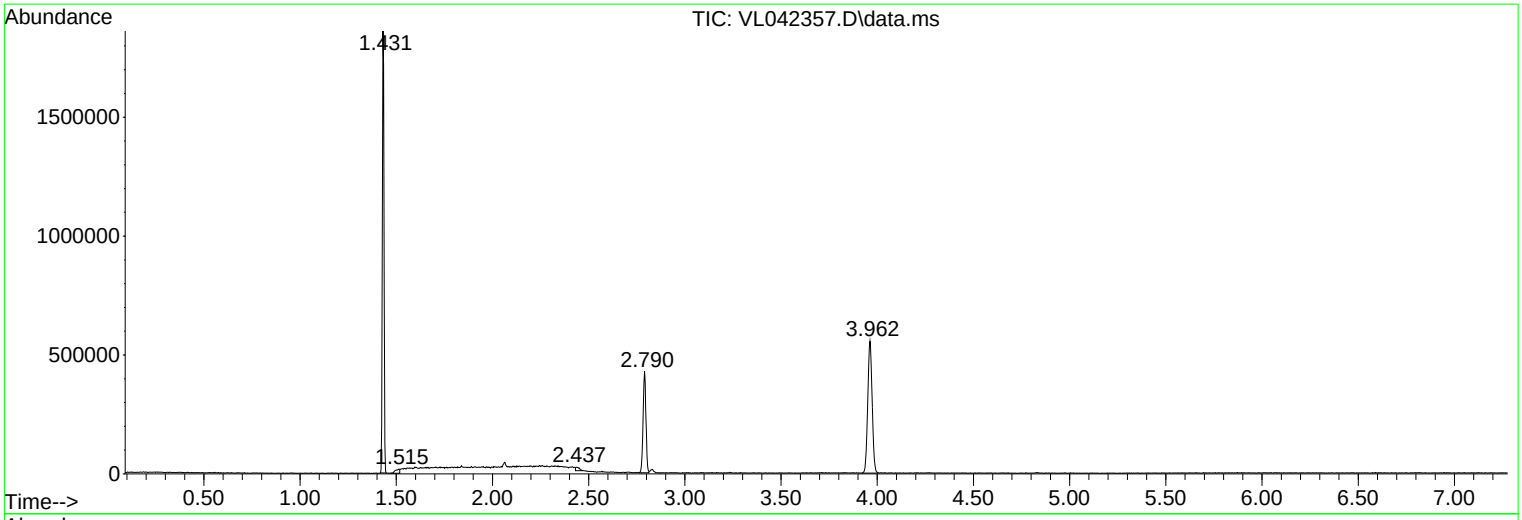
Sum of corrected areas: 4767867

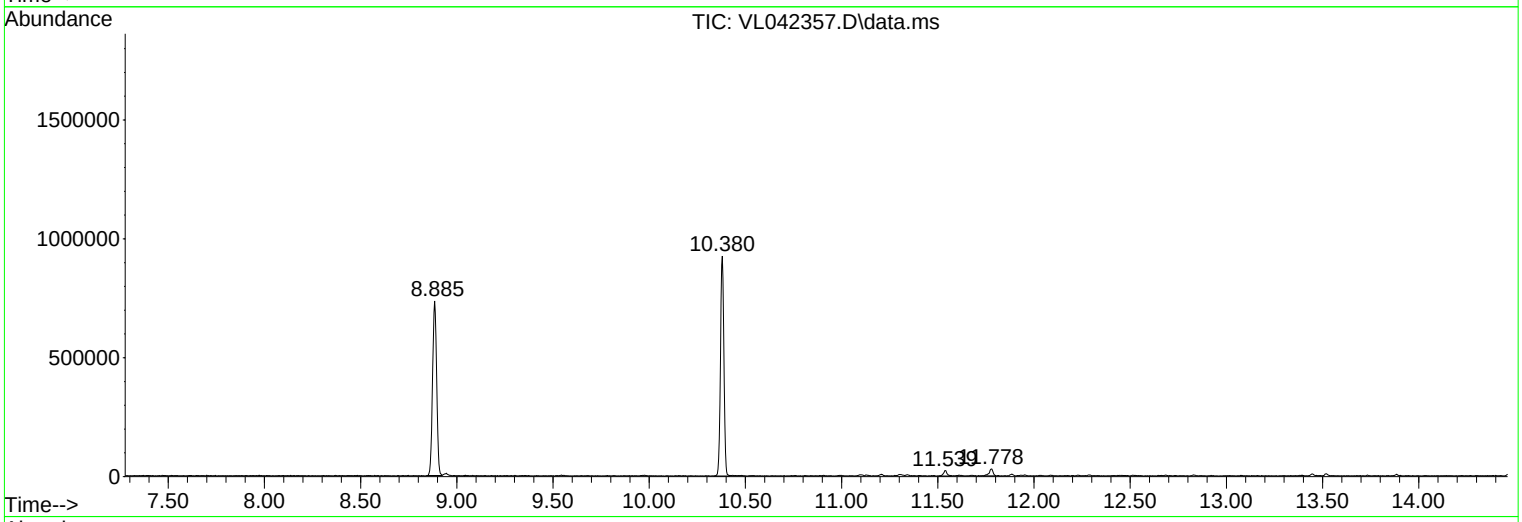
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042357.D
Acq On : 17 Apr 2025 14:23
Operator : SY/MD
Sample : VL0417ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

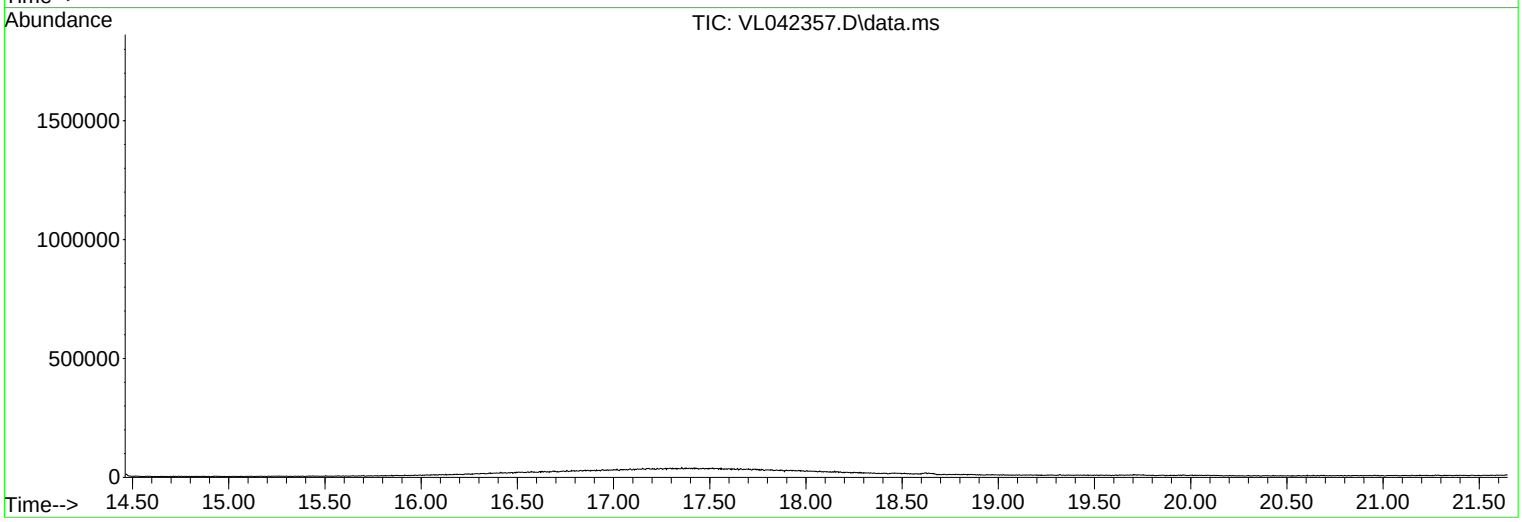
**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042357.D
Acq On : 17 Apr 2025 14:23
Operator : SY/MD
Sample : VL0417ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
**********

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042357.D
Acq On : 17 Apr 2025 14:23
Operator : SY/MD
Sample : VL0417ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | |
| Client Sample ID: | VL0428ABL01 | SDG No.: | Q1665 |
| Lab Sample ID: | VL0428ABL01 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042417.D | 1 | | 04/28/25 09:27 | VL042825 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.21 | 1.04 | U | 1.04 | 2.47 | ug/m3 |
| 64-17-5 | Ethanol | 0.32 | 0.60 | U | 0.60 | 0.94 | ug/m3 |
| 74-87-3 | Chloromethane | 0.10 | 0.21 | U | 0.21 | 1.03 | ug/m3 |
| 75-01-4 | Vinyl Chloride | 0.010 | 0.030 | U | 0.030 | 0.080 | ug/m3 |
| 74-83-9 | Bromomethane | 0.14 | 0.54 | U | 0.54 | 1.94 | ug/m3 |
| 75-00-3 | Chloroethane | 0.17 | 0.45 | U | 0.45 | 1.32 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | 0.13 | 0.38 | U | 0.38 | 1.47 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | 0.16 | 0.90 | U | 0.90 | 2.81 | ug/m3 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.16 | 1.23 | U | 1.23 | 3.83 | ug/m3 |
| 76-14-2 | Dichlorotetrafluoroethane | 0.090 | 0.63 | U | 0.63 | 3.49 | ug/m3 |
| 593-60-2 | Bromoethene | 0.12 | 0.52 | U | 0.52 | 2.19 | ug/m3 |
| 75-65-0 | tert-Butyl alcohol | 0.19 | 0.58 | U | 0.58 | 1.52 | ug/m3 |
| 142-82-5 | Heptane | 0.11 | 0.45 | U | 0.45 | 2.05 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | 0.070 | 0.17 | U | 0.17 | 1.23 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethene | 0.14 | 0.56 | U | 0.56 | 1.98 | ug/m3 |
| 67-64-1 | Acetone | 0.24 | 0.57 | U | 0.57 | 1.19 | ug/m3 |
| 75-15-0 | Carbon Disulfide | 0.16 | 0.50 | U | 0.50 | 1.56 | ug/m3 |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.12 | 0.43 | U | 0.43 | 1.80 | ug/m3 |
| 75-09-2 | Methylene Chloride | 0.19 | 0.66 | U | 0.66 | 1.74 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.19 | 0.75 | U | 0.75 | 1.98 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | 0.13 | 0.53 | U | 0.53 | 2.02 | ug/m3 |
| 110-82-7 | Cyclohexane | 0.22 | 0.76 | U | 0.76 | 1.72 | ug/m3 |
| 78-93-3 | 2-Butanone | 0.12 | 0.35 | U | 0.35 | 1.47 | ug/m3 |
| 56-23-5 | Carbon Tetrachloride | 0.010 | 0.060 | U | 0.060 | 0.19 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.090 | 0.36 | U | 0.36 | 1.98 | ug/m3 |
| 67-66-3 | Chloroform | 0.080 | 0.39 | U | 0.39 | 2.44 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.010 | 0.050 | U | 0.050 | 0.16 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | 0.10 | 0.47 | U | 0.47 | 2.34 | ug/m3 |
| 71-43-2 | Benzene | 0.090 | 0.29 | U | 0.29 | 1.60 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | 0.090 | 0.36 | U | 0.36 | 2.02 | ug/m3 |
| 79-01-6 | Trichloroethene | 0.020 | 0.11 | U | 0.11 | 0.16 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | 0.11 | 0.51 | U | 0.51 | 2.31 | ug/m3 |
| 75-27-4 | Bromodichloromethane | 0.080 | 0.54 | U | 0.54 | 3.35 | ug/m3 |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.090 | 0.37 | U | 0.37 | 2.05 | ug/m3 |
| 108-88-3 | Toluene | 0.11 | 0.41 | U | 0.41 | 1.88 | ug/m3 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | |
| Client Sample ID: | VL0428ABL01 | SDG No.: | Q1665 |
| Lab Sample ID: | VL0428ABL01 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042417.D | 1 | | 04/28/25 09:27 | VL042825 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.060 | 0.27 | U | 0.27 | 2.27 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.060 | 0.27 | U | 0.27 | 2.27 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.070 | 0.38 | U | 0.38 | 2.73 | ug/m3 |
| 124-48-1 | Dibromochloromethane | 0.070 | 0.60 | U | 0.60 | 4.26 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane | 0.070 | 0.54 | U | 0.54 | 0.77 | ug/m3 |
| 127-18-4 | Tetrachloroethene | 0.020 | 0.14 | U | 0.14 | 0.20 | ug/m3 |
| 108-90-7 | Chlorobenzene | 0.080 | 0.37 | U | 0.37 | 2.30 | ug/m3 |
| 100-41-4 | Ethyl Benzene | 0.12 | 0.52 | U | 0.52 | 2.17 | ug/m3 |
| 179601-23-1 | m/p-Xylene | 0.21 | 0.91 | U | 0.91 | 4.34 | ug/m3 |
| 95-47-6 | o-Xylene | 0.12 | 0.52 | U | 0.52 | 2.17 | ug/m3 |
| 100-42-5 | Styrene | 0.11 | 0.47 | U | 0.47 | 2.13 | ug/m3 |
| 75-25-2 | Bromoform | 0.060 | 0.62 | U | 0.62 | 5.17 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.010 | 0.070 | U | 0.070 | 0.21 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | 0.11 | 0.57 | U | 0.57 | 2.59 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.11 | 0.54 | U | 0.54 | 2.46 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.080 | 0.39 | U | 0.39 | 2.46 | ug/m3 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.080 | 0.48 | U | 0.48 | 3.01 | ug/m3 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.050 | 0.30 | U | 0.30 | 3.01 | ug/m3 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.080 | 0.48 | U | 0.48 | 3.01 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.090 | 0.67 | U | 0.67 | 3.71 | ug/m3 |
| 87-68-3 | Hexachloro-1,3-Butadiene | 0.090 | 0.96 | U | 0.96 | 5.33 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | 0.13 | 0.29 | U | 0.29 | 1.11 | ug/m3 |
| 91-20-3 | Naphthalene | 0.080 | 0.42 | U | 0.42 | 0.52 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | 0.12 | 0.59 | U | 0.59 | 2.46 | ug/m3 |
| 110-54-3 | Hexane | 0.11 | 0.39 | U | 0.39 | 1.76 | ug/m3 |
| 107-05-1 | Allyl Chloride | 0.15 | 0.47 | U | 0.47 | 1.57 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | 0.21 | 0.76 | U | 0.76 | 1.80 | ug/m3 |
| 80-62-6 | Methyl Methacrylate | 0.090 | 0.37 | U | 0.37 | 2.05 | ug/m3 |
| **SURROGATES** | | | | | | | |
| 460-00-4 | 1-Bromo-4-Fluorobenzene | 10.5 | | | 70 (65) - 130 (135) | 105% | SPK: 10 |
| **INTERNAL STANDARDS** | | | | | | | |
| 74-97-5 | Bromochloromethane | 121000 | | 2.777 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 347000 | | 3.946 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 302000 | | 8.868 | | | |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | |
| Client Sample ID: | VL0428ABL01 | SDG No.: | Q1665 |
| Lab Sample ID: | VL0428ABL01 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042417.D | 1 | | 04/28/25 09:27 | VL042825 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
Q = indicates LCS control criteria did not meet requirements

Quantitation Report (LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042417.D
Acq On : 28 Apr 2025 09:27
Operator : SY/MD
Sample : VL0428ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABL01

Quant Time: Apr 29 01:32:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

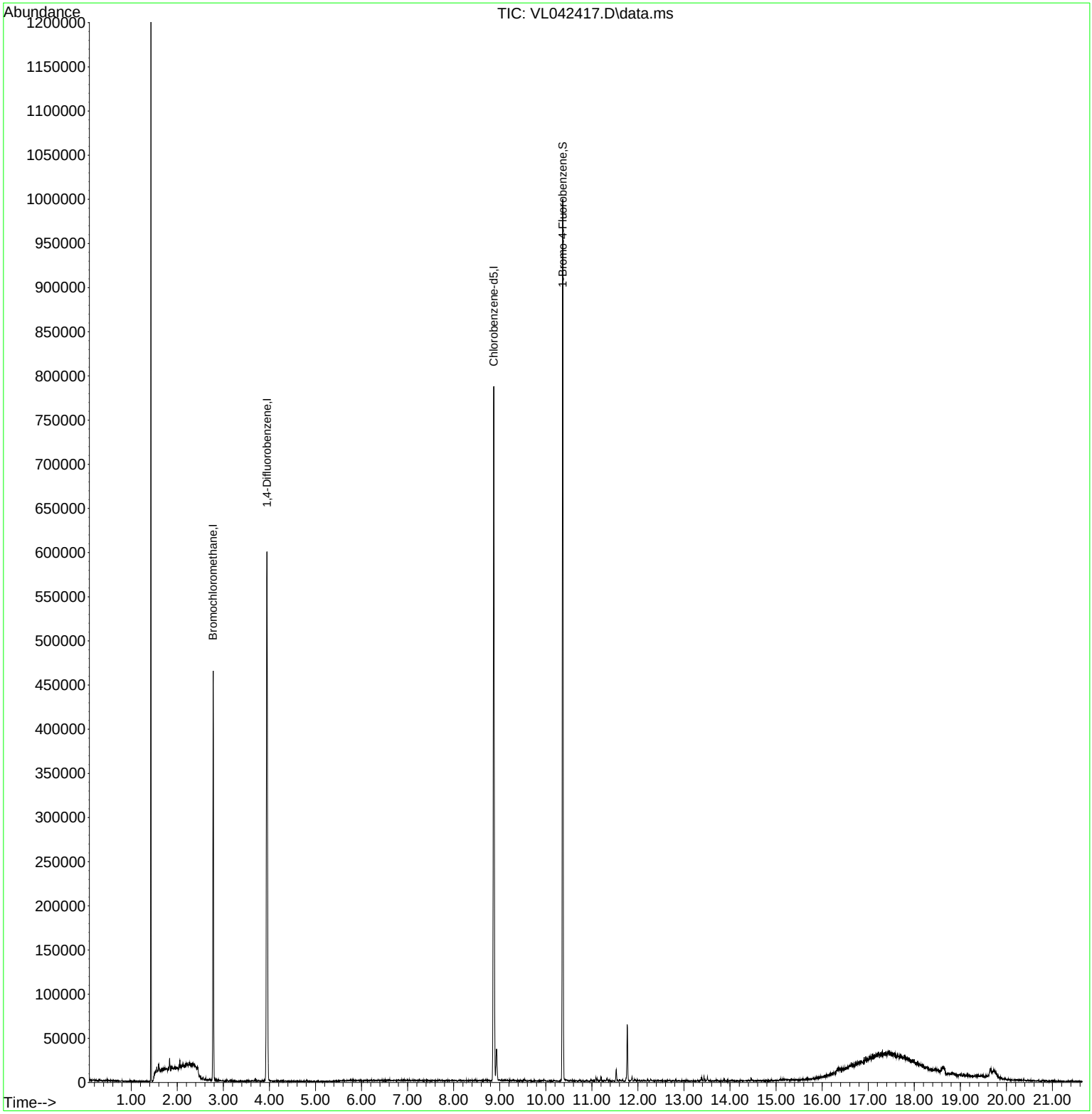
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.777 | 49 | 121027 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.946 | 114 | 346921 | 10.000 | ppbv | -0.01 |
| 55) Chlorobenzene-d5 | 8.868 | 117 | 302157 | 10.000 | ppbv | -0.01 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.367 | 95 | 259490 | 10.451 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 104.500% | | | |
| Target Compounds | | | | | | Qvalue |

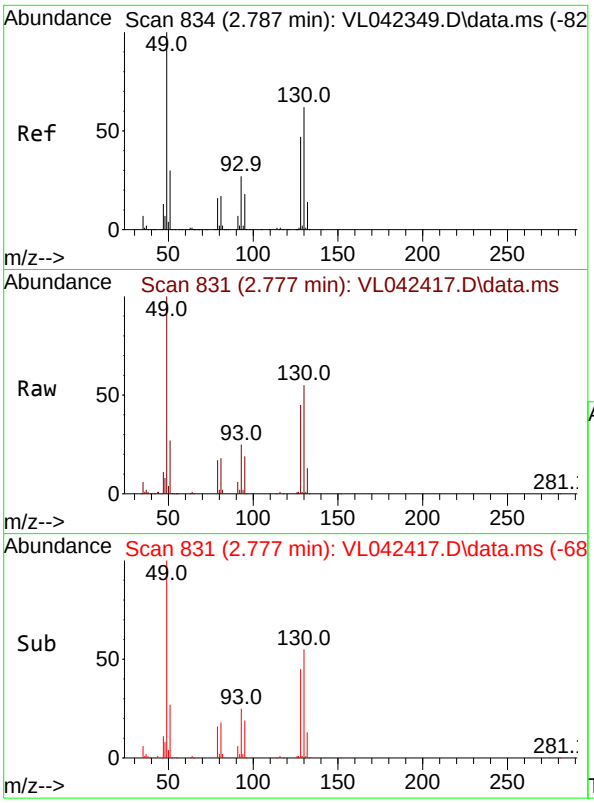
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042417.D
Acq On : 28 Apr 2025 09:27
Operator : SY/MD
Sample : VL0428ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABL01

Quant Time: Apr 29 01:32:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration



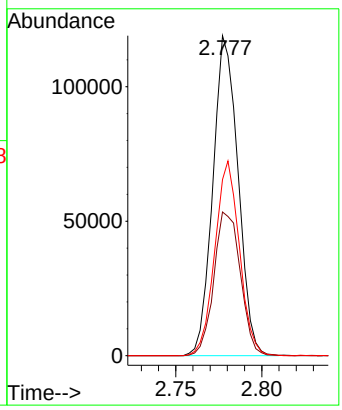


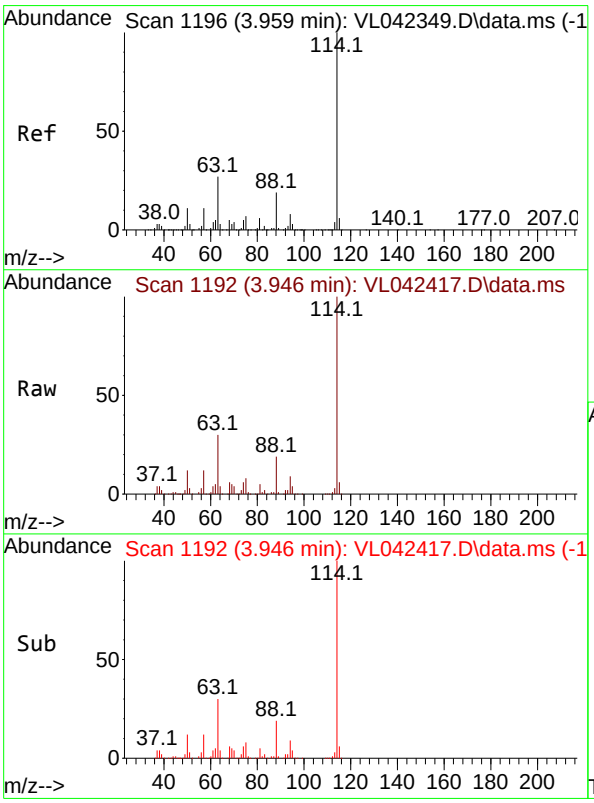

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.777 min Scan# 8
Delta R.T. -0.010 min
Lab File: VL042417.D
Acq: 28 Apr 2025 09:27

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABL01

Tgt Ion: 49 Resp: 121027

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 47.3 | 22.8 | 68.4 |
| 130 | 59.4 | 29.3 | 88.0 |

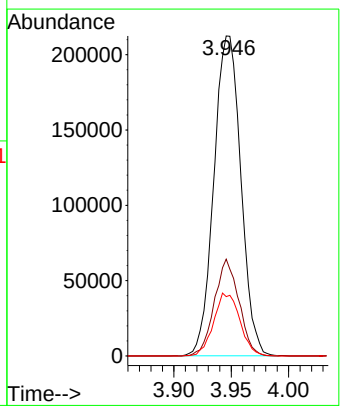


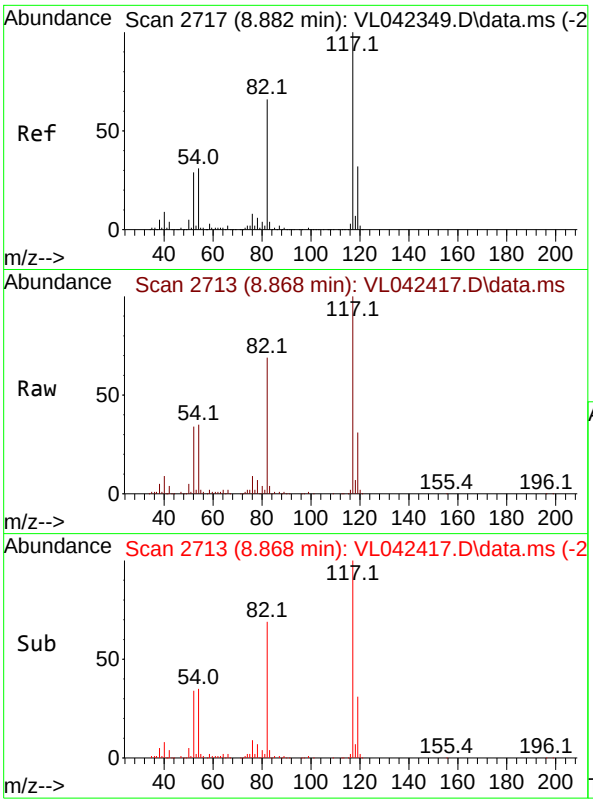




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.946 min Scan# 1192
Delta R.T. -0.013 min
Lab File: VL042417.D
Acq: 28 Apr 2025 09:27

Tgt Ion:114 Resp: 346921

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 27.6 | 21.8 | 32.6 |
| 88 | 19.1 | 15.5 | 23.3 |



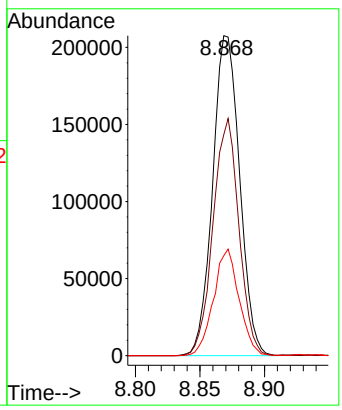


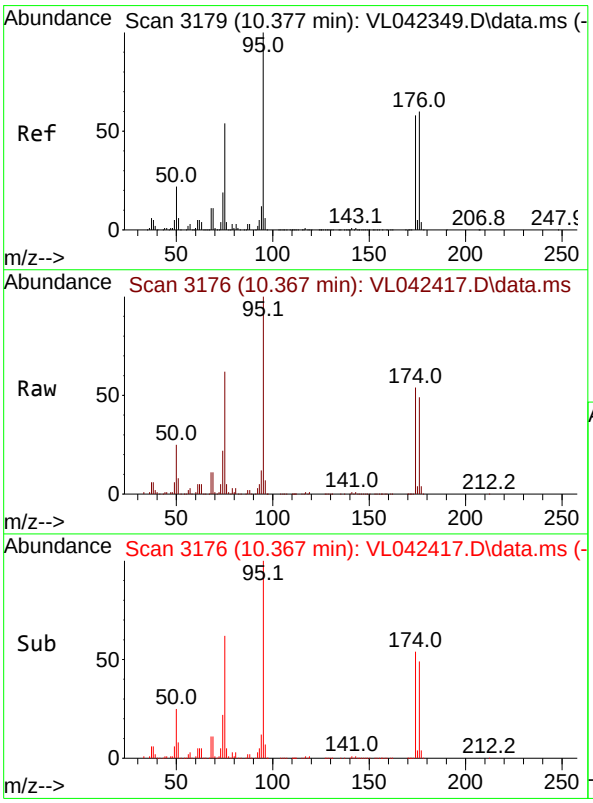

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.868 min Scan# 2
Delta R.T. -0.013 min
Lab File: VL042417.D
Acq: 28 Apr 2025 09:27

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABL01

Tgt Ion:117 Resp: 302157

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 71.0 | 57.8 | 86.6 |
| 119 | 31.7 | 25.2 | 37.8 |

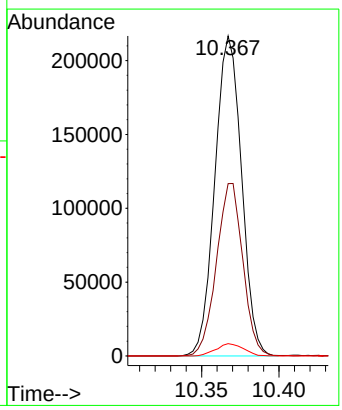



#68
1-Bromo-4-Fluorobenzene
Concen: 10.451 ppbv
RT: 10.367 min Scan# 3176
Delta R.T. -0.010 min
Lab File: VL042417.D
Acq: 28 Apr 2025 09:27

Tgt Ion: 95 Resp: 259490

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 53.3 | 48.5 | 72.7 |
| 175 | 4.0 | 3.7 | 5.5 |



LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042417.D
Acq On : 28 Apr 2025 09:27
Operator : SY/MD
Sample : VL0428ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

Signal : TIC: VL042417.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.427 | 410 | 414 | 418 | rBV | 1506383 | 820060 | 68.09% | 17.223% |
| 2 | 2.780 | 822 | 832 | 844 | rBV | 464038 | 486824 | 40.42% | 10.224% |
| 3 | 3.946 | 1179 | 1192 | 1206 | rBV2 | 599258 | 963835 | 80.03% | 20.243% |
| 4 | 8.872 | 2702 | 2714 | 2725 | rBV | 786095 | 1134293 | 94.18% | 23.823% |
| 5 | 8.930 | 2725 | 2732 | 2743 | rVB3 | 35593 | 59136 | 4.91% | 1.242% |
| 6 | 10.367 | 3164 | 3176 | 3190 | rBV | 998699 | 1204332 | 100.00% | 25.294% |
| 7 | 11.529 | 3527 | 3535 | 3540 | rBV5 | 13483 | 16218 | 1.35% | 0.341% |
| 8 | 11.769 | 3598 | 3609 | 3620 | rVB3 | 63808 | 76660 | 6.37% | 1.610% |

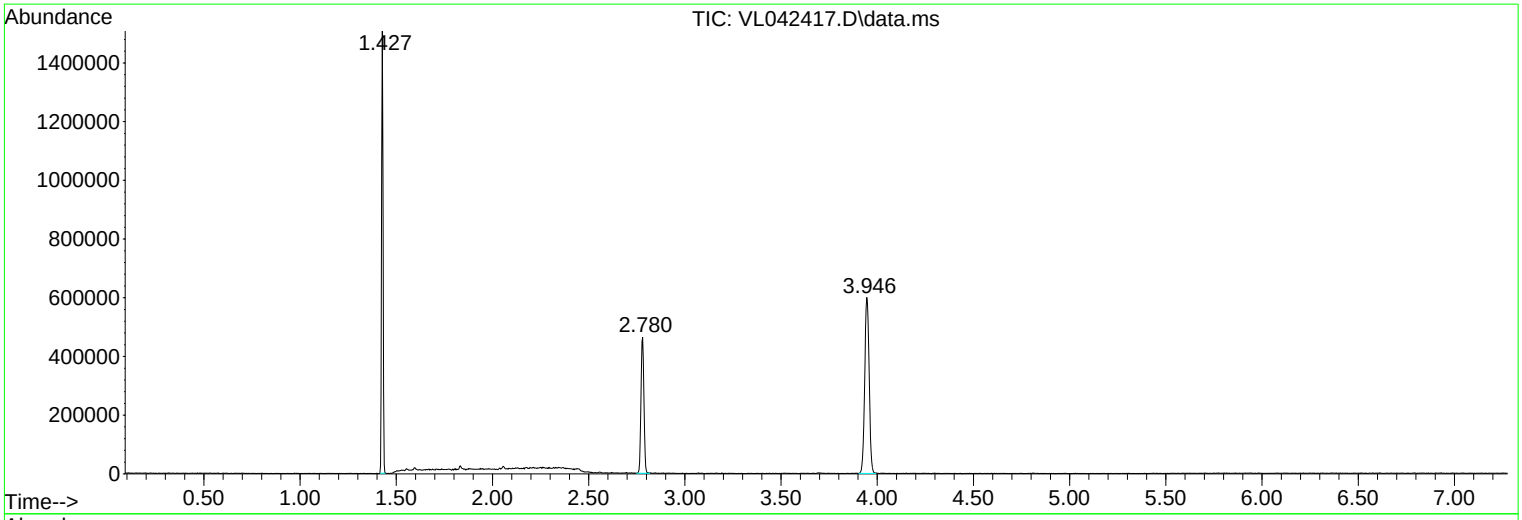
Sum of corrected areas: 4761358

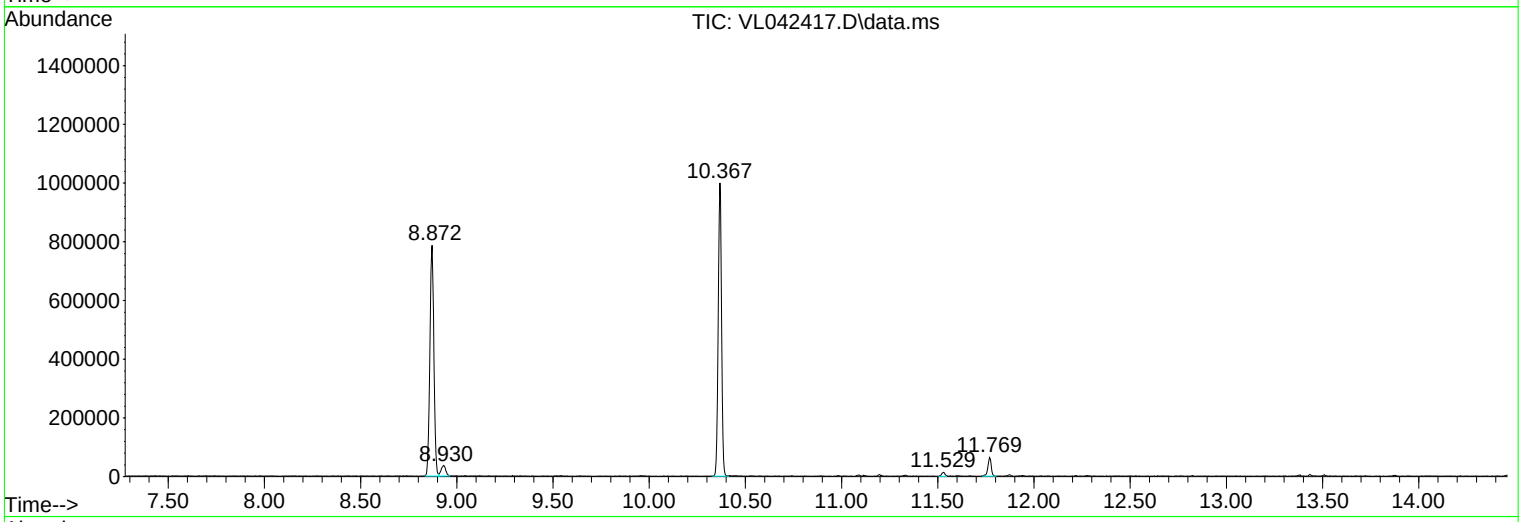
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042417.D
Acq On : 28 Apr 2025 09:27
Operator : SY/MD
Sample : VL0428ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

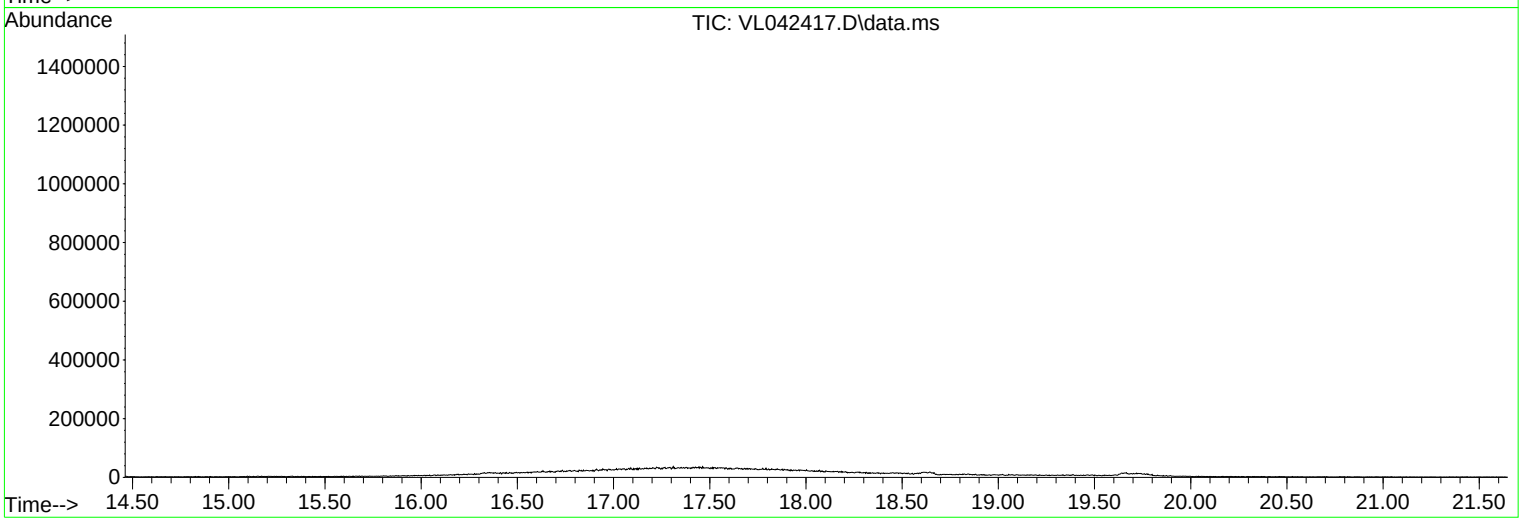
**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042417.D
Acq On : 28 Apr 2025 09:27
Operator : SY/MD
Sample : VL0428ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
**********

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042417.D
Acq On : 28 Apr 2025 09:27
Operator : SY/MD
Sample : VL0428ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | |
| Client Sample ID: | VL0429ABL01 | SDG No.: | Q1665 |
| Lab Sample ID: | VL0429ABL01 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042437.D | 1 | | 04/29/25 09:25 | VL042925 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.21 | 1.04 | U | 1.04 | 2.47 | ug/m3 |
| 64-17-5 | Ethanol | 0.32 | 0.60 | U | 0.60 | 0.94 | ug/m3 |
| 74-87-3 | Chloromethane | 0.10 | 0.21 | U | 0.21 | 1.03 | ug/m3 |
| 75-01-4 | Vinyl Chloride | 0.010 | 0.030 | U | 0.030 | 0.080 | ug/m3 |
| 74-83-9 | Bromomethane | 0.14 | 0.54 | U | 0.54 | 1.94 | ug/m3 |
| 75-00-3 | Chloroethane | 0.17 | 0.45 | U | 0.45 | 1.32 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | 0.13 | 0.38 | U | 0.38 | 1.47 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | 0.16 | 0.90 | U | 0.90 | 2.81 | ug/m3 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.16 | 1.23 | U | 1.23 | 3.83 | ug/m3 |
| 76-14-2 | Dichlorotetrafluoroethane | 0.090 | 0.63 | U | 0.63 | 3.49 | ug/m3 |
| 593-60-2 | Bromoethene | 0.12 | 0.52 | U | 0.52 | 2.19 | ug/m3 |
| 75-65-0 | tert-Butyl alcohol | 0.19 | 0.58 | U | 0.58 | 1.52 | ug/m3 |
| 142-82-5 | Heptane | 0.11 | 0.45 | U | 0.45 | 2.05 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | 0.070 | 0.17 | U | 0.17 | 1.23 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethene | 0.14 | 0.56 | U | 0.56 | 1.98 | ug/m3 |
| 67-64-1 | Acetone | 0.24 | 0.57 | U | 0.57 | 1.19 | ug/m3 |
| 75-15-0 | Carbon Disulfide | 0.16 | 0.50 | U | 0.50 | 1.56 | ug/m3 |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.12 | 0.43 | U | 0.43 | 1.80 | ug/m3 |
| 75-09-2 | Methylene Chloride | 0.19 | 0.66 | U | 0.66 | 1.74 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.19 | 0.75 | U | 0.75 | 1.98 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | 0.13 | 0.53 | U | 0.53 | 2.02 | ug/m3 |
| 110-82-7 | Cyclohexane | 0.22 | 0.76 | U | 0.76 | 1.72 | ug/m3 |
| 78-93-3 | 2-Butanone | 0.12 | 0.35 | U | 0.35 | 1.47 | ug/m3 |
| 56-23-5 | Carbon Tetrachloride | 0.010 | 0.060 | U | 0.060 | 0.19 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.090 | 0.36 | U | 0.36 | 1.98 | ug/m3 |
| 67-66-3 | Chloroform | 0.080 | 0.39 | U | 0.39 | 2.44 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.010 | 0.050 | U | 0.050 | 0.16 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | 0.10 | 0.47 | U | 0.47 | 2.34 | ug/m3 |
| 71-43-2 | Benzene | 0.090 | 0.29 | U | 0.29 | 1.60 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | 0.090 | 0.36 | U | 0.36 | 2.02 | ug/m3 |
| 79-01-6 | Trichloroethene | 0.020 | 0.11 | U | 0.11 | 0.16 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | 0.11 | 0.51 | U | 0.51 | 2.31 | ug/m3 |
| 75-27-4 | Bromodichloromethane | 0.080 | 0.54 | U | 0.54 | 3.35 | ug/m3 |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.090 | 0.37 | U | 0.37 | 2.05 | ug/m3 |
| 108-88-3 | Toluene | 0.11 | 0.41 | U | 0.41 | 1.88 | ug/m3 |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | |
| Client Sample ID: | VL0429ABL01 | SDG No.: | Q1665 |
| Lab Sample ID: | VL0429ABL01 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042437.D | 1 | | 04/29/25 09:25 | VL042925 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.060 | 0.27 | U | 0.27 | 2.27 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.060 | 0.27 | U | 0.27 | 2.27 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.070 | 0.38 | U | 0.38 | 2.73 | ug/m3 |
| 124-48-1 | Dibromochloromethane | 0.070 | 0.60 | U | 0.60 | 4.26 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane | 0.070 | 0.54 | U | 0.54 | 0.77 | ug/m3 |
| 127-18-4 | Tetrachloroethene | 0.020 | 0.14 | U | 0.14 | 0.20 | ug/m3 |
| 108-90-7 | Chlorobenzene | 0.080 | 0.37 | U | 0.37 | 2.30 | ug/m3 |
| 100-41-4 | Ethyl Benzene | 0.12 | 0.52 | U | 0.52 | 2.17 | ug/m3 |
| 179601-23-1 | m/p-Xylene | 0.21 | 0.91 | U | 0.91 | 4.34 | ug/m3 |
| 95-47-6 | o-Xylene | 0.12 | 0.52 | U | 0.52 | 2.17 | ug/m3 |
| 100-42-5 | Styrene | 0.11 | 0.47 | U | 0.47 | 2.13 | ug/m3 |
| 75-25-2 | Bromoform | 0.060 | 0.62 | U | 0.62 | 5.17 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.010 | 0.070 | U | 0.070 | 0.21 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | 0.11 | 0.57 | U | 0.57 | 2.59 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.11 | 0.54 | U | 0.54 | 2.46 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.080 | 0.39 | U | 0.39 | 2.46 | ug/m3 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.080 | 0.48 | U | 0.48 | 3.01 | ug/m3 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.050 | 0.30 | U | 0.30 | 3.01 | ug/m3 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.080 | 0.48 | U | 0.48 | 3.01 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.090 | 0.67 | U | 0.67 | 3.71 | ug/m3 |
| 87-68-3 | Hexachloro-1,3-Butadiene | 0.090 | 0.96 | U | 0.96 | 5.33 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | 0.13 | 0.29 | U | 0.29 | 1.11 | ug/m3 |
| 91-20-3 | Naphthalene | 0.080 | 0.42 | U | 0.42 | 0.52 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | 0.12 | 0.59 | U | 0.59 | 2.46 | ug/m3 |
| 110-54-3 | Hexane | 0.11 | 0.39 | U | 0.39 | 1.76 | ug/m3 |
| 107-05-1 | Allyl Chloride | 0.15 | 0.47 | U | 0.47 | 1.57 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | 0.21 | 0.76 | U | 0.76 | 1.80 | ug/m3 |
| 80-62-6 | Methyl Methacrylate | 0.090 | 0.37 | U | 0.37 | 2.05 | ug/m3 |
| **SURROGATES** | | | | | | | |
| 460-00-4 | 1-Bromo-4-Fluorobenzene | 10.6 | | | 70 (65) - 130 (135) | 106% | SPK: 10 |
| **INTERNAL STANDARDS** | | | | | | | |
| 74-97-5 | Bromochloromethane | 119000 | | 2.787 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 329000 | | 3.959 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 276000 | | 8.885 | | | |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | |
| Client Sample ID: | VL0429ABL01 | SDG No.: | Q1665 |
| Lab Sample ID: | VL0429ABL01 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042437.D | 1 | | 04/29/25 09:25 | VL042925 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
Data File : VL042437.D
Acq On : 29 Apr 2025 09:25
Operator : SY/MD
Sample : VL0429ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABL01

Quant Time: Apr 30 01:16:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

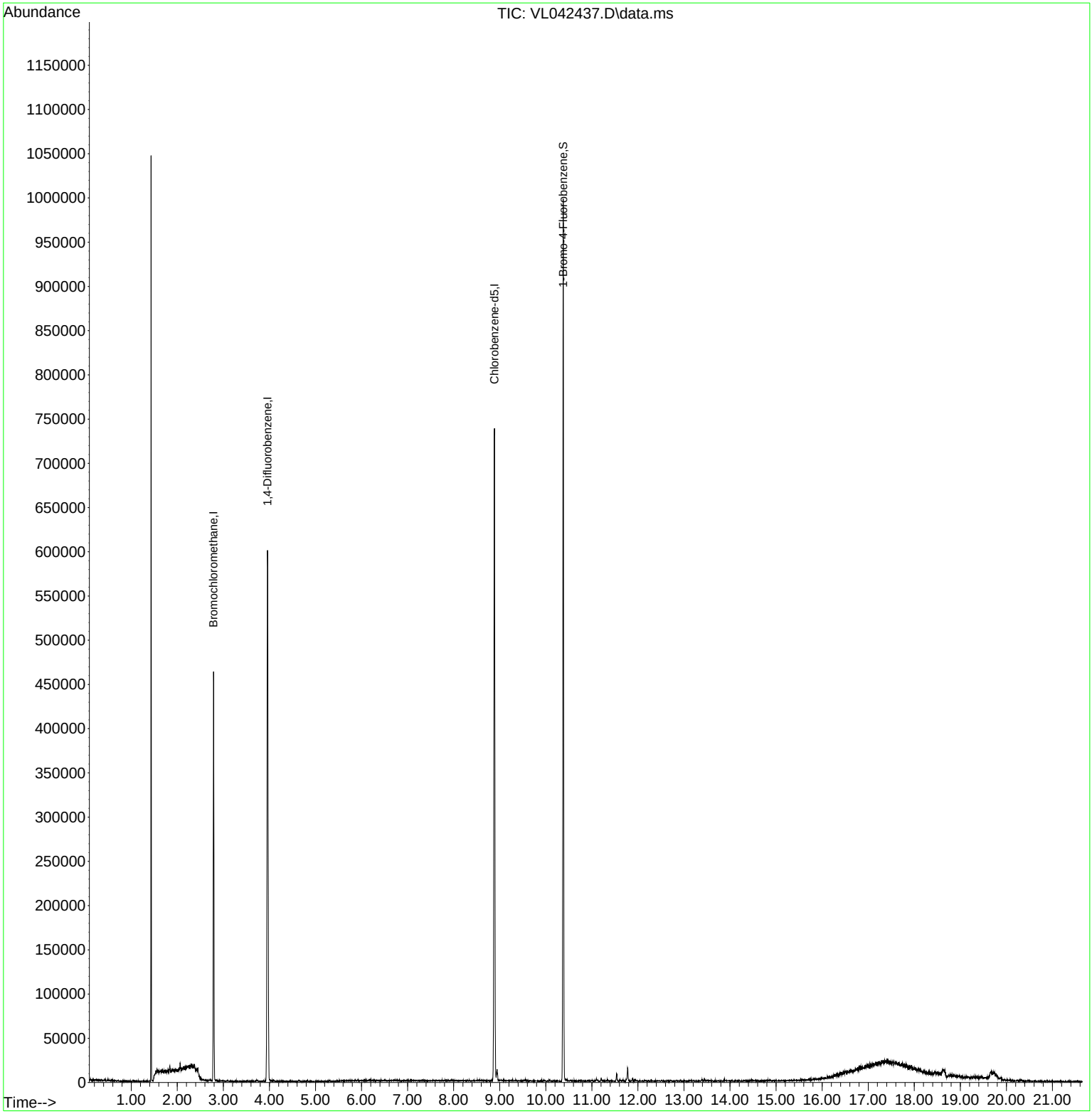
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.787 | 49 | 119014 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.959 | 114 | 328601 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.885 | 117 | 276498 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95 | 239853 | 10.556 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 105.600% | | | |
| Target Compounds | | | | | | Qvalue |

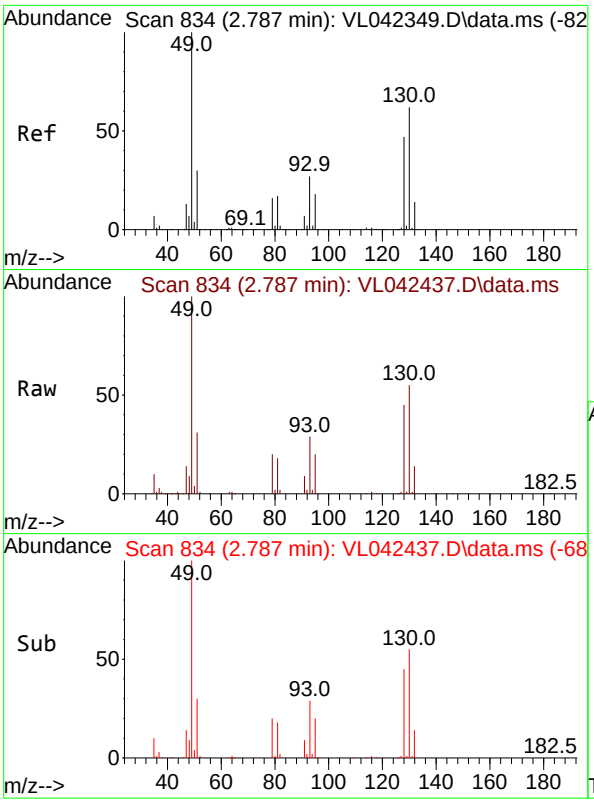
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
Data File : VL042437.D
Acq On : 29 Apr 2025 09:25
Operator : SY/MD
Sample : VL0429ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABL01

Quant Time: Apr 30 01:16:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration



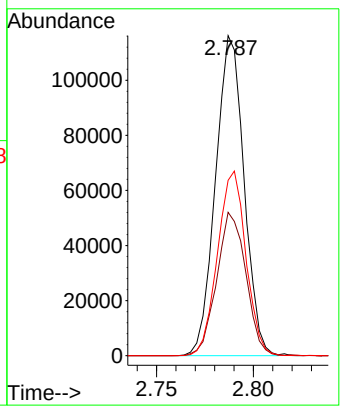


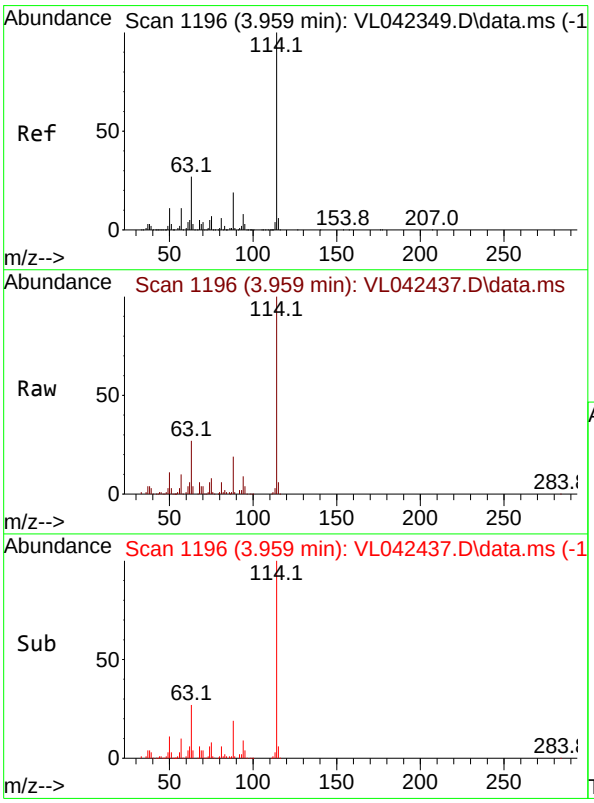

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042437.D
Acq: 29 Apr 2025 09:25

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABL01

Tgt Ion: 49 Resp: 119014

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 45.8 | 22.8 | 68.4 |
| 130 | 57.6 | 29.3 | 88.0 |

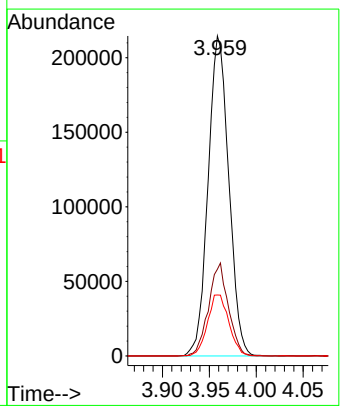


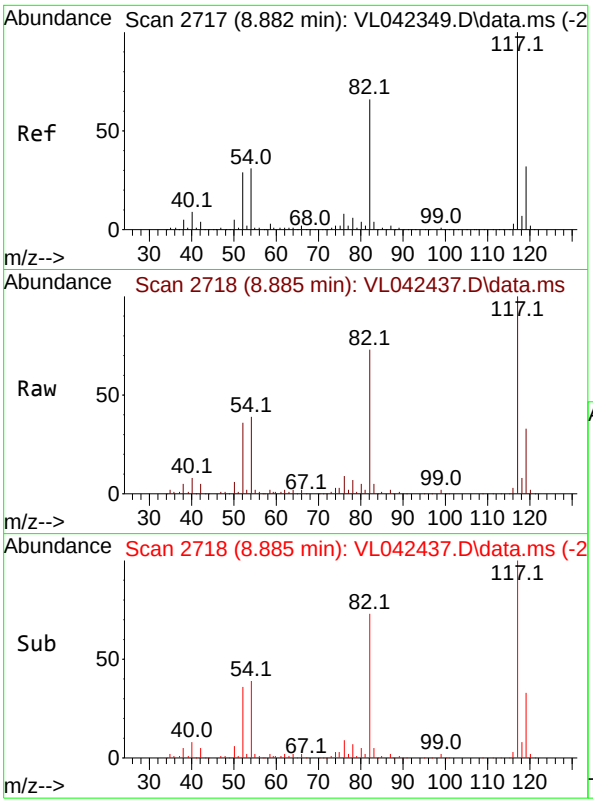




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.000 min
Lab File: VL042437.D
Acq: 29 Apr 2025 09:25

Tgt Ion:114 Resp: 328601

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 27.9 | 21.8 | 32.6 |
| 88 | 19.7 | 15.5 | 23.3 |



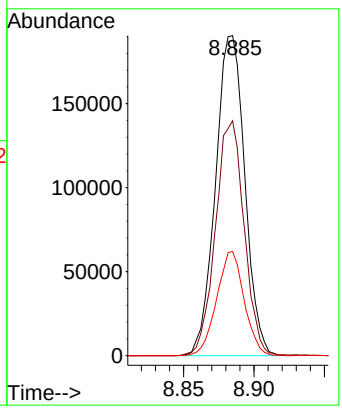


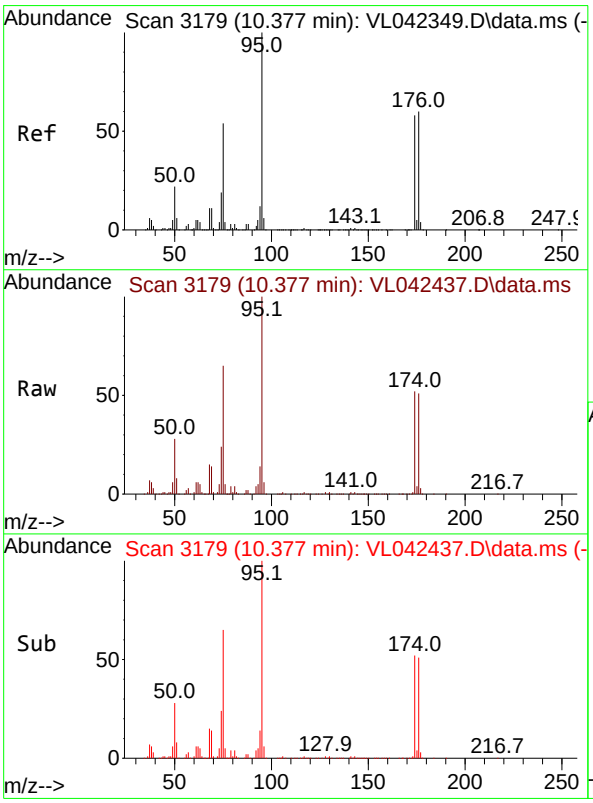

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042437.D
Acq: 29 Apr 2025 09:25

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABL01

Tgt Ion:117 Resp: 276498

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 71.6 | 57.8 | 86.6 |
| 119 | 30.6 | 25.2 | 37.8 |

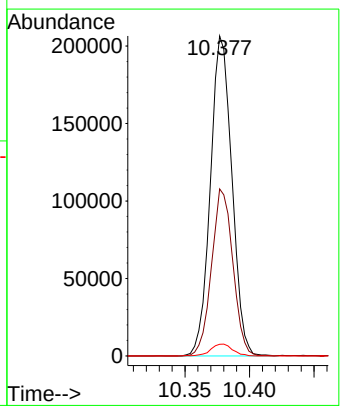



#68
1-Bromo-4-Fluorobenzene
Concen: 10.556 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. -0.000 min
Lab File: VL042437.D
Acq: 29 Apr 2025 09:25

Tgt Ion: 95 Resp: 239853

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 51.8 | 48.5 | 72.7 |
| 175 | 3.8 | 3.7 | 5.5 |



LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
Data File : VL042437.D
Acq On : 29 Apr 2025 09:25
Operator : SY/MD
Sample : VL0429ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

Signal : TIC: VL042437.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.431 | 411 | 415 | 419 | rBV | 1045742 | 556107 | 48.51% | 13.156% |
| 2 | 2.787 | 824 | 834 | 843 | rBV | 463084 | 484133 | 42.23% | 11.453% |
| 3 | 3.959 | 1181 | 1196 | 1209 | rBV2 | 600602 | 942047 | 82.18% | 22.286% |
| 4 | 8.885 | 2705 | 2718 | 2729 | rBV | 737482 | 1063646 | 92.78% | 25.163% |
| 5 | 8.943 | 2729 | 2736 | 2742 | rVB4 | 12112 | 17135 | 1.49% | 0.405% |
| 6 | 10.377 | 3169 | 3179 | 3192 | rBV | 997620 | 1146364 | 100.00% | 27.120% |
| 7 | 11.775 | 3601 | 3611 | 3619 | rVB5 | 14832 | 17593 | 1.53% | 0.416% |

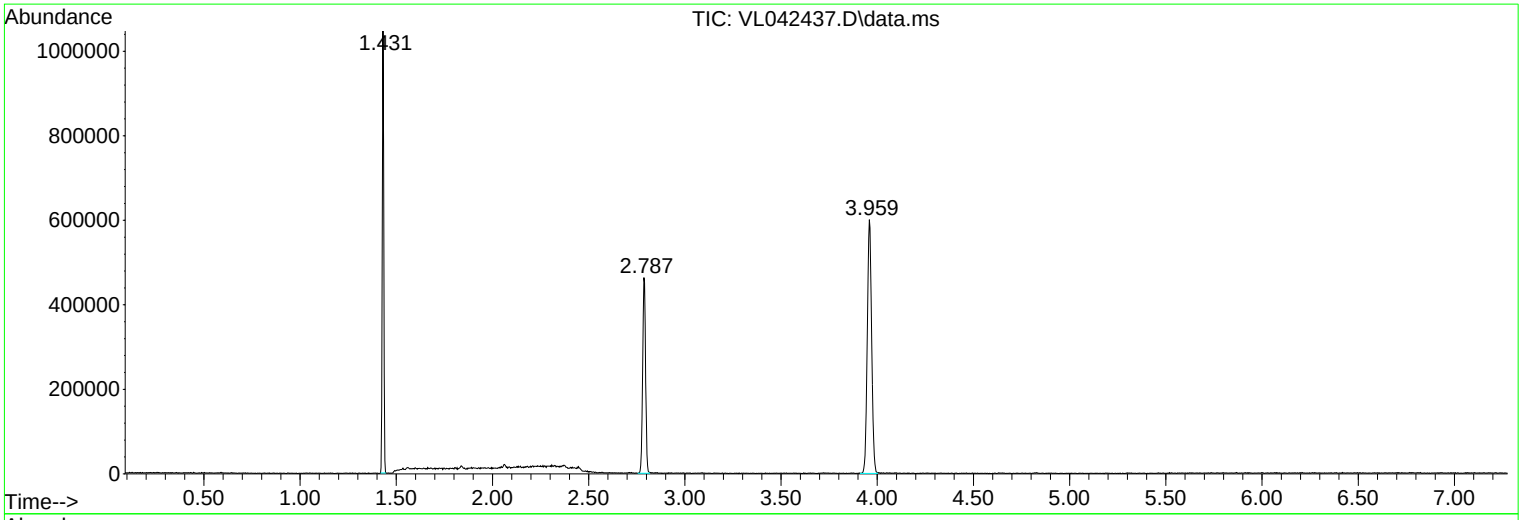
Sum of corrected areas: 4227025

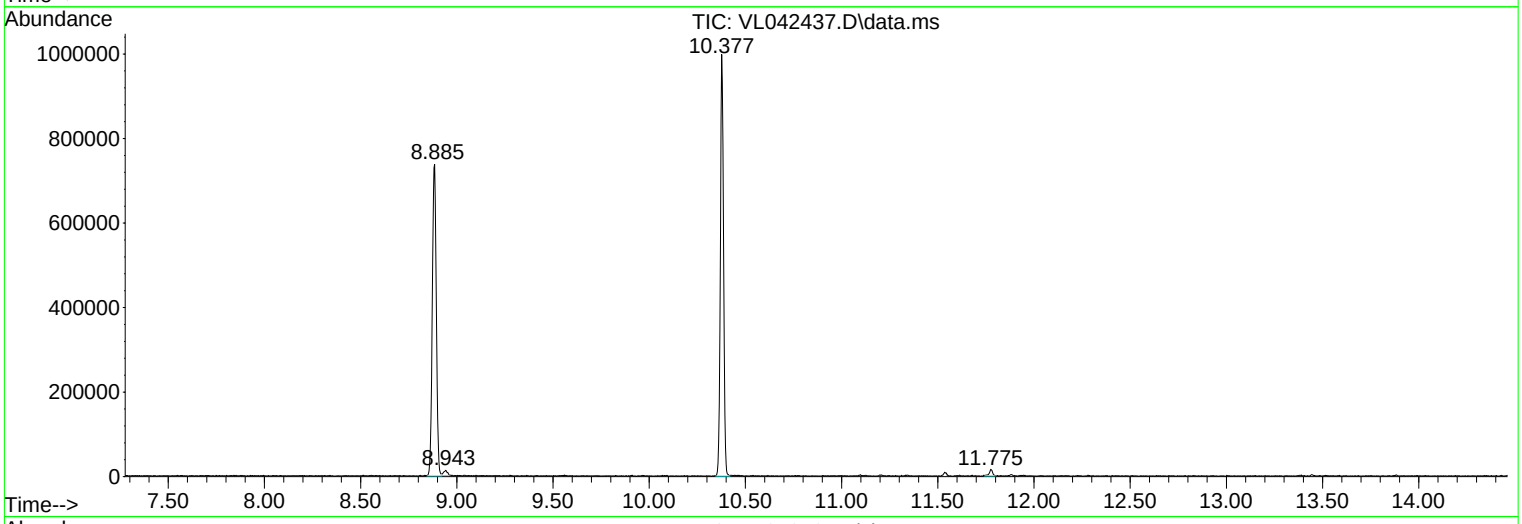
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
Data File : VL042437.D
Acq On : 29 Apr 2025 09:25
Operator : SY/MD
Sample : VL0429ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

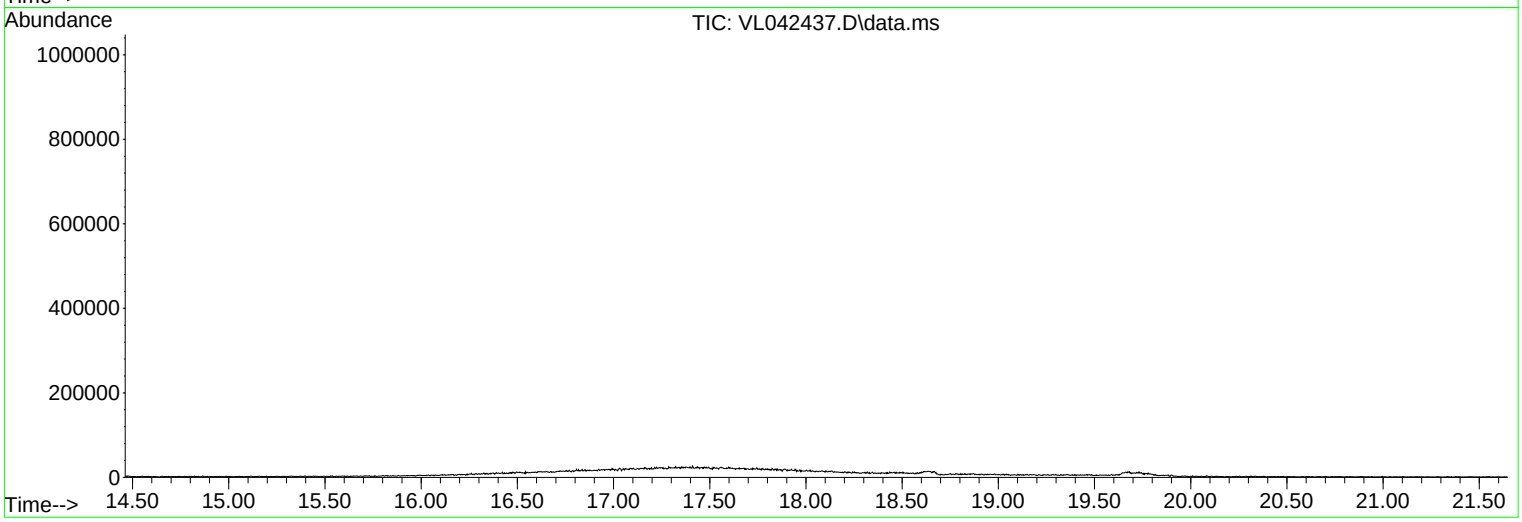
**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
Data File : VL042437.D
Acq On : 29 Apr 2025 09:25
Operator : SY/MD
Sample : VL0429ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
**********

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
Data File : VL042437.D
Acq On : 29 Apr 2025 09:25
Operator : SY/MD
Sample : VL0429ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | |
| Client Sample ID: | VL0409ABS02 | SDG No.: | Q1665 |
| Lab Sample ID: | VL0409ABS02 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042289.D | 1 | | 04/09/25 12:31 | VL040925 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 9.60 | 47.5 | | 1.04 | 2.47 | ug/m3 |
| 64-17-5 | Ethanol | 4.50 | 8.48 | | 0.60 | 0.94 | ug/m3 |
| 74-87-3 | Chloromethane | 9.80 | 20.2 | | 0.21 | 1.03 | ug/m3 |
| 75-01-4 | Vinyl Chloride | 8.70 | 22.2 | | 0.030 | 0.080 | ug/m3 |
| 74-83-9 | Bromomethane | 9.00 | 35.0 | | 0.54 | 1.94 | ug/m3 |
| 75-00-3 | Chloroethane | 9.20 | 24.3 | | 0.45 | 1.32 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | 10.7 | 31.6 | | 0.38 | 1.47 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | 9.50 | 53.4 | | 0.90 | 2.81 | ug/m3 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 9.50 | 72.8 | | 1.23 | 3.83 | ug/m3 |
| 76-14-2 | Dichlorotetrafluoroethane | 9.70 | 67.8 | | 0.63 | 3.49 | ug/m3 |
| 593-60-2 | Bromoethene | 8.80 | 38.5 | | 0.52 | 2.19 | ug/m3 |
| 75-65-0 | tert-Butyl alcohol | 8.30 | 25.2 | | 0.58 | 1.52 | ug/m3 |
| 142-82-5 | Heptane | 9.70 | 39.8 | | 0.45 | 2.05 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | 8.80 | 21.6 | | 0.17 | 1.23 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethene | 8.90 | 35.3 | | 0.56 | 1.98 | ug/m3 |
| 67-64-1 | Acetone | 8.90 | 21.1 | | 0.57 | 1.19 | ug/m3 |
| 75-15-0 | Carbon Disulfide | 9.30 | 29.0 | | 0.50 | 1.56 | ug/m3 |
| 1634-04-4 | Methyl tert-Butyl Ether | 8.50 | 30.6 | | 0.43 | 1.80 | ug/m3 |
| 75-09-2 | Methylene Chloride | 8.40 | 29.2 | | 0.66 | 1.74 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethene | 8.80 | 34.9 | | 0.75 | 1.98 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | 9.70 | 39.3 | | 0.53 | 2.02 | ug/m3 |
| 110-82-7 | Cyclohexane | 9.40 | 32.4 | | 0.76 | 1.72 | ug/m3 |
| 78-93-3 | 2-Butanone | 10.9 | 32.1 | | 0.35 | 1.47 | ug/m3 |
| 56-23-5 | Carbon Tetrachloride | 10.4 | 65.4 | | 0.060 | 0.19 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethene | 9.70 | 38.5 | | 0.36 | 1.98 | ug/m3 |
| 67-66-3 | Chloroform | 10.4 | 50.8 | | 0.39 | 2.44 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | 8.90 | 48.6 | | 0.050 | 0.16 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | 10.7 | 50.0 | | 0.47 | 2.34 | ug/m3 |
| 71-43-2 | Benzene | 10.6 | 33.9 | | 0.29 | 1.60 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | 11.0 | 44.5 | | 0.36 | 2.02 | ug/m3 |
| 79-01-6 | Trichloroethene | 10.1 | 54.3 | | 0.11 | 0.16 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | 10.6 | 49.0 | | 0.51 | 2.31 | ug/m3 |
| 75-27-4 | Bromodichloromethane | 10.9 | 73.0 | | 0.54 | 3.35 | ug/m3 |
| 108-10-1 | 4-Methyl-2-Pentanone | 9.60 | 39.3 | | 0.37 | 2.05 | ug/m3 |
| 108-88-3 | Toluene | 9.90 | 37.3 | | 0.41 | 1.88 | ug/m3 |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | |
| Client Sample ID: | VL0409ABS02 | SDG No.: | Q1665 |
| Lab Sample ID: | VL0409ABS02 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042289.D | 1 | | 04/09/25 12:31 | VL040925 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 8.50 | 38.6 | | 0.27 | 2.27 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | 9.20 | 41.8 | | 0.27 | 2.27 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | 10.8 | 58.9 | | 0.38 | 2.73 | ug/m3 |
| 124-48-1 | Dibromochloromethane | 10.5 | 89.5 | | 0.60 | 4.26 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane | 10.6 | 81.5 | | 0.54 | 0.77 | ug/m3 |
| 127-18-4 | Tetrachloroethene | 8.90 | 60.4 | | 0.14 | 0.20 | ug/m3 |
| 108-90-7 | Chlorobenzene | 11.4 | 52.5 | | 0.37 | 2.30 | ug/m3 |
| 100-41-4 | Ethyl Benzene | 10.6 | 46.0 | | 0.52 | 2.17 | ug/m3 |
| 179601-23-1 | m/p-Xylene | 22.2 | 96.4 | | 0.91 | 4.34 | ug/m3 |
| 95-47-6 | o-Xylene | 11.0 | 47.8 | | 0.52 | 2.17 | ug/m3 |
| 100-42-5 | Styrene | 10.0 | 42.6 | | 0.47 | 2.13 | ug/m3 |
| 75-25-2 | Bromoform | 10.4 | 108 | | 0.62 | 5.17 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 11.8 | 81.0 | | 0.070 | 0.21 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | 10.9 | 56.4 | | 0.57 | 2.59 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 10.9 | 53.6 | | 0.54 | 2.46 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 10.7 | 52.6 | | 0.39 | 2.46 | ug/m3 |
| 541-73-1 | 1,3-Dichlorobenzene | 11.6 | 69.7 | | 0.48 | 3.01 | ug/m3 |
| 106-46-7 | 1,4-Dichlorobenzene | 11.7 | 70.3 | | 0.30 | 3.01 | ug/m3 |
| 95-50-1 | 1,2-Dichlorobenzene | 11.9 | 71.5 | | 0.48 | 3.01 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10.8 | 80.2 | | 0.67 | 3.71 | ug/m3 |
| 87-68-3 | Hexachloro-1,3-Butadiene | 9.30 | 99.2 | | 0.96 | 5.33 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | 8.60 | 19.0 | | 0.29 | 1.11 | ug/m3 |
| 91-20-3 | Naphthalene | 11.3 | 59.2 | | 0.42 | 0.52 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | 11.1 | 54.6 | | 0.59 | 2.46 | ug/m3 |
| 110-54-3 | Hexane | 9.90 | 34.9 | | 0.39 | 1.76 | ug/m3 |
| 107-05-1 | Allyl Chloride | 9.30 | 29.1 | | 0.47 | 1.57 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | 9.40 | 33.9 | | 0.76 | 1.80 | ug/m3 |
| 80-62-6 | Methyl Methacrylate | 9.40 | 38.5 | | 0.37 | 2.05 | ug/m3 |
| **SURROGATES** | | | | | | | |
| 460-00-4 | 1-Bromo-4-Fluorobenzene | 9.50 | | | 70 (65) - 130 (135) | 95% | SPK: 10 |
| **INTERNAL STANDARDS** | | | | | | | |
| 74-97-5 | Bromochloromethane | 161000 | | 2.784 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 422000 | | 3.952 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 368000 | | 8.875 | | | |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | |
| Client Sample ID: | VL0409ABS02 | SDG No.: | Q1665 |
| Lab Sample ID: | VL0409ABS02 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042289.D | 1 | | 04/09/25 12:31 | VL040925 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042289.D
Acq On : 09 Apr 2025 12:31
Operator : SY/MD
Sample : VL0409ABS02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 01:42:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.784 | 49 | 160536 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.952 | 114 | 421845 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.875 | 117 | 368487 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.370 | 95 | 288141 | 9.522 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 95.200% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.496 | 85 | 227351 | 9.592 | ppbv | 98 |
| 3) Chlorodifluoromethane | 1.473 | 51 | 246719 | 10.189 | ppbv | 98 |
| 4) Chloromethane | 1.531 | 50 | 94644 | 9.770 | ppbv | 99 |
| 5) Vinyl Chloride | 1.577 | 62 | 89453 | 8.714 | ppbv | 95 |
| 6) Bromomethane | 1.664 | 94 | 39433 | 8.983 | ppbv | 100 |
| 7) Chloroethane | 1.703 | 64 | 35803 | 9.208 | ppbv | 97 |
| 8) Dichlorotetrafluoroethane | 1.551 | 85 | 196779 | 9.748 | ppbv | 94 |
| 9) Propene | 1.483 | 41 | 104428 | 9.409 | ppbv | 96 |
| 10) Heptane | 4.972 | 43 | 285337 | 9.665 | ppbv | 99 |
| 11) Trichlorofluoromethane | 1.874 | 101 | 219275 | 9.507 | ppbv | 98 |
| 12) 1,1,2-Trichlorotrifluo... | 2.136 | 101 | 180430 | 9.518 | ppbv | 95 |
| 13) Ethanol | 1.719 | 45 | 4753 | 4.530 | ppbv | 93 |
| 14) Bromoethene | 1.780 | 108 | 64175 | 8.837 | ppbv | 98 |
| 15) Acetone | 1.832 | 43 | 200151 | 8.915 | ppbv | 96 |
| 16) 1,3-Butadiene | 1.606 | 39 | 93954 | 8.569 | ppbv | 99 |
| 17) tert-Butyl alcohol | 2.039 | 59 | 231293 | 8.271 | ppbv | 98 |
| 18) 1,1-Dichloroethene | 2.030 | 96 | 78979 | 8.912 | ppbv | 96 |
| 19) Isopropyl Alcohol | 1.884 | 45 | 111918 | 8.835 | ppbv | 96 |
| 20) Methylene Chloride | 2.059 | 84 | 70611 | 8.444 | ppbv | 95 |
| 21) Allyl Chloride | 2.094 | 41 | 147389 | 9.308 | ppbv | 98 |
| 22) trans-1,2-Dichloroethene | 2.337 | 96 | 89877 | 8.775 | ppbv | 94 |
| 23) Vinyl Acetate | 2.460 | 43 | 85028 | 8.750 | ppbv | 97 |
| 24) 1,1-Dichloroethane | 2.405 | 63 | 184801 | 9.733 | ppbv | 99 |
| 25) Ethyl Acetate | 2.832 | 43 | 590692 | 10.137 | ppbv | 98 |
| 26) Hexane | 2.823 | 57 | 223800 | 9.943 | ppbv | 98 |
| 27) Carbon Disulfide | 2.146 | 76 | 223675 | 9.267 | ppbv | 98 |
| 28) Methyl tert-Butyl Ether | 2.437 | 73 | 119034 | 8.494 | ppbv | 97 |
| 29) Chloroform | 2.845 | 83 | 341042 | 10.353 | ppbv | 99 |
| 30) Cyclohexane | 3.852 | 84 | 182880 | 9.357 | ppbv | 97 |
| 31) cis-1,2-Dichloroethene | 2.716 | 61 | 221881 | 9.710 | ppbv | 98 |
| 32) 1,1,1-Trichloroethane | 3.363 | 97 | 336493 | 8.923 | ppbv | 97 |
| 34) 2-Butanone | 2.554 | 43 | 334636 | 10.940 | ppbv | 98 |
| 35) Carbon Tetrachloride | 3.758 | 117 | 343376 | 10.420 | ppbv | 97 |
| 36) Benzene | 3.651 | 78 | 442736 | 10.586 | ppbv | 98 |
| 37) 1,2-Dichloroethane | 3.214 | 62 | 262528 | 10.965 | ppbv | 100 |
| 38) Trichloroethene | 4.541 | 130 | 176435 | 10.111 | ppbv | 98 |
| 39) 1,2-Dichloropropane | 4.308 | 63 | 161101 | 10.578 | ppbv | 97 |
| 40) 1,4-Dioxane | 4.574 | 88 | 76321 | 9.441 | ppbv # | 97 |
| 41) Tetrahydrofuran | 3.049 | 42 | 187790 | 10.661 | ppbv | 96 |
| 42) Bromodichloromethane | 4.483 | 83 | 360662 | 10.927 | ppbv | 100 |
| 43) Methyl Methacrylate | 4.875 | 69 | 165984 | 9.375 | ppbv | 98 |
| 44) 2,2,4-Trimethylpentane | 4.632 | 57 | 757855 | 10.723 | ppbv | 98 |
| 45) t-1,3-Dichloropropene | 6.406 | 75 | 161245 | 8.489 | ppbv | 96 |

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042289.D
Acq On : 09 Apr 2025 12:31
Operator : SY/MD
Sample : VL0409ABS02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 01:42:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.593 | 75 | 213566 | 9.172 | ppbv | | 98 |
| 47) 1,1,2-Trichloroethane | 6.574 | 97 | 173506 | 10.777 | ppbv | | 99 |
| 48) Dibromochloromethane | 7.380 | 129 | 286938 | 10.516 | ppbv | | 100 |
| 49) Bromoform | 9.477 | 173 | 254430 | 10.386 | ppbv | | 99 |
| 50) 4-Methyl-2-Pentanone | 5.742 | 43 | 463069 | 9.552 | ppbv | | 96 |
| 51) 2-Hexanone | 7.428 | 43 | 364946 | 9.168 | ppbv | # | 96 |
| 52) Tetrachloroethene | 8.218 | 164 | 148369 | 8.946 | ppbv | | 94 |
| 53) Toluene | 6.927 | 91 | 490916 | 9.903 | ppbv | | 99 |
| 54) 1,2-Dibromoethane | 7.648 | 107 | 238091 | 10.608 | ppbv | | 98 |
| 56) 1,1,1,2-Tetrachloroethane | 8.920 | 131 | 232553 | 11.465 | ppbv | | 100 |
| 57) Chlorobenzene | 8.914 | 112 | 397485 | 11.372 | ppbv | | 93 |
| 58) Ethyl Benzene | 9.351 | 91 | 695035 | 10.619 | ppbv | | 98 |
| 59) m/p-Xylene | 9.548 | 91 | 1162331m | 22.239 | ppbv | | |
| 60) o-Xylene | 9.959 | 91 | 574256 | 10.960 | ppbv | | 97 |
| 61) Styrene | 9.866 | 104 | 258350 | 9.967 | ppbv | | 99 |
| 62) Isopropylbenzene | 10.536 | 105 | 864354 | 11.032 | ppbv | | 100 |
| 63) 1,1,2,2-Tetrachloroethane | 9.959 | 83 | 377007 | 11.843 | ppbv | | 99 |
| 64) n-propylbenzene | 10.985 | 120 | 228525 | 11.331 | ppbv | | 99 |
| 65) tert-Butylbenzene | 11.529 | 119 | 790461 | 10.909 | ppbv | | 99 |
| 66) Benzyl Chloride | 11.613 | 91 | 58131 | 7.561 | ppbv | | 97 |
| 67) sec-Butylbenzene | 11.765 | 105 | 1124096 | 11.161 | ppbv | | 99 |
| 69) p-Isopropyltoluene | 11.924 | 119 | 950025 | 10.954 | ppbv | | 99 |
| 70) n-Butylbenzene | 12.280 | 91 | 986632 | 11.124 | ppbv | | 99 |
| 71) 2-Chlorotoluene | 10.898 | 91 | 660346 | 10.859 | ppbv | | 99 |
| 72) 4-Ethyltoluene | 11.121 | 105 | 726883 | 11.142 | ppbv | | 99 |
| 73) 1,3,5-Trimethylbenzene | 11.202 | 105 | 618219 | 10.851 | ppbv | | 99 |
| 74) 1,2,4-Trimethylbenzene | 11.532 | 105 | 702287 | 10.699 | ppbv | # | 84 |
| 75) 1,3-Dichlorobenzene | 11.604 | 146 | 419165 | 11.644 | ppbv | | 99 |
| 76) 1,4-Dichlorobenzene | 11.668 | 146 | 417746 | 11.660 | ppbv | | 98 |
| 77) 1,2-Dichlorobenzene | 11.943 | 146 | 415780 | 11.862 | ppbv | | 99 |
| 78) Hexachloro-1,3-Butadiene | 13.879 | 225 | 331886 | 9.302 | ppbv | | 99 |
| 79) Naphthalene | 13.510 | 128 | 810441 | 11.288 | ppbv | | 99 |
| 80) Naphthalene,2-methyl- | 14.455 | 142 | 388095 | 11.023 | ppbv | | 99 |
| 81) 1,2,4-Trichlorobenzene | 13.439 | 180 | 357711 | 10.802 | ppbv | | 99 |

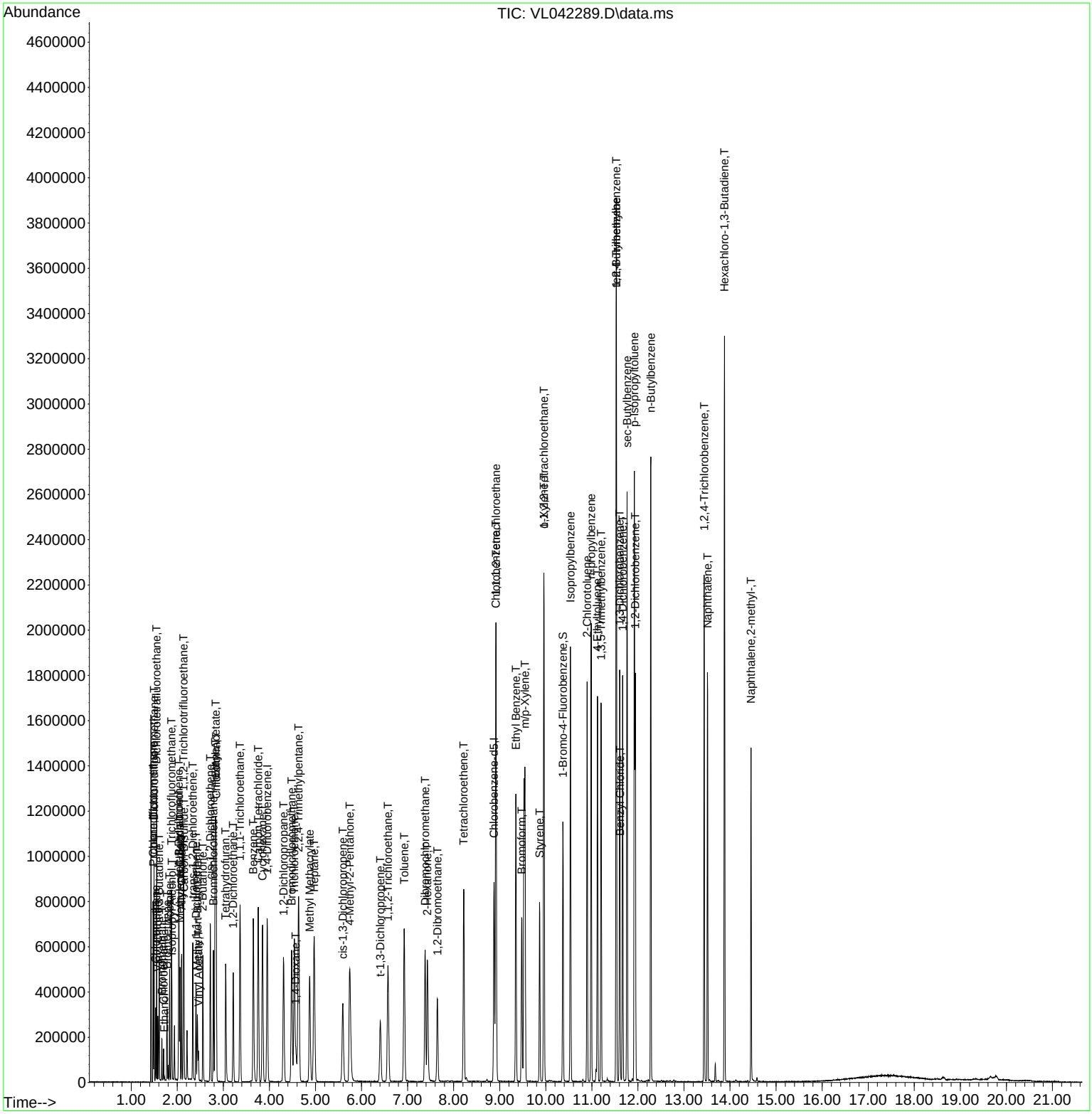
(#) = qualifier out of range (m) = manual integration (+) = signals summed

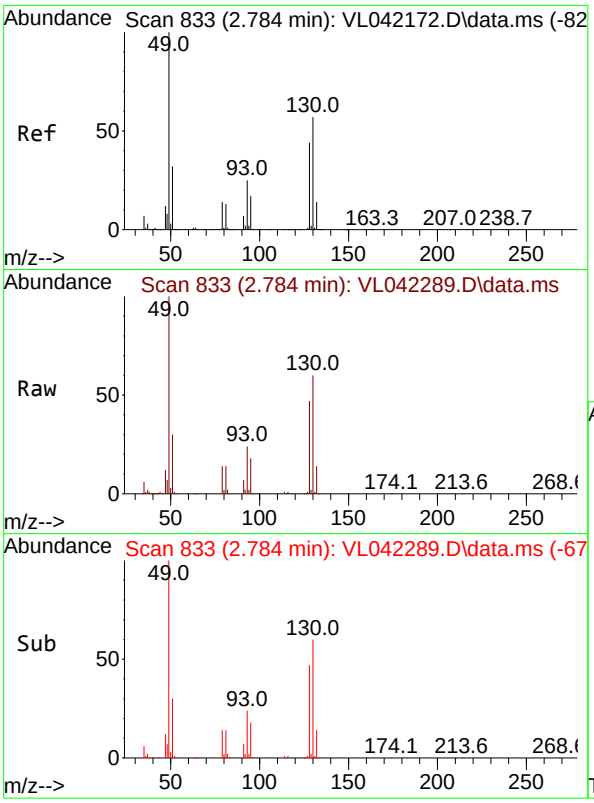
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042289.D
Acq On : 09 Apr 2025 12:31
Operator : SY/MD
Sample : VL0409ABS02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 01:42:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

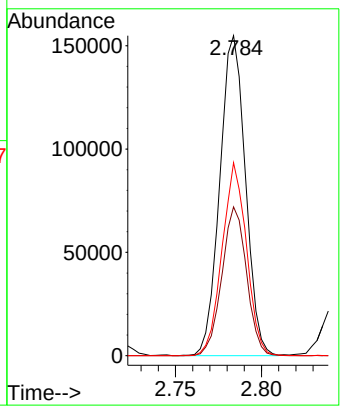





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 49 Resp: 16053

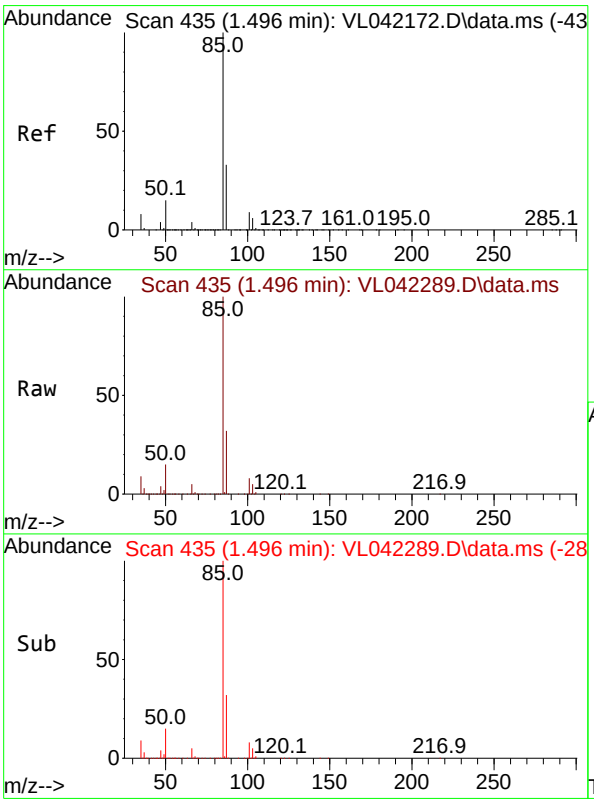
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 44.7 | 22.9 | 68.5 |
| 130 | 57.4 | 28.8 | 86.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

**Manual Integrations**
**APPROVED**

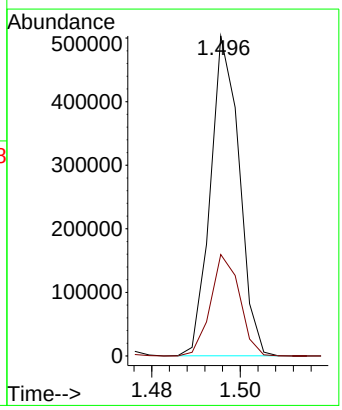
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

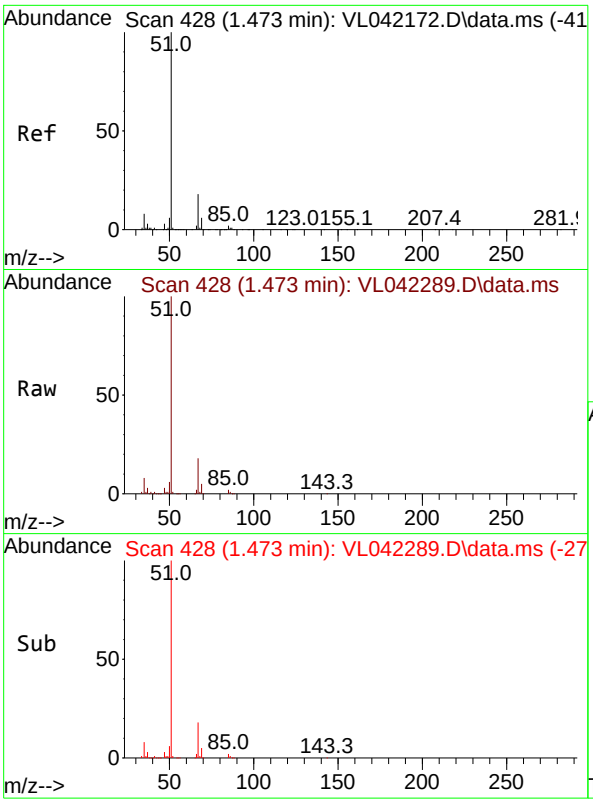



#2
Dichlorodifluoromethane
Concen: 9.592 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 85 Resp: 227351

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.7 | 26.1 | 39.1 |

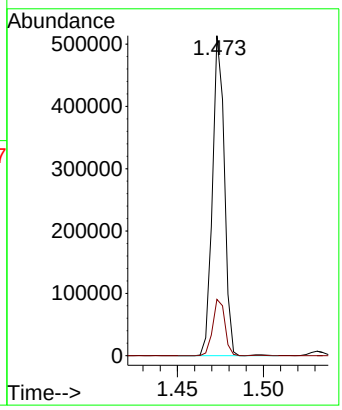





#3
Chlorodifluoromethane
Concen: 10.189 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 51 Resp: 24671

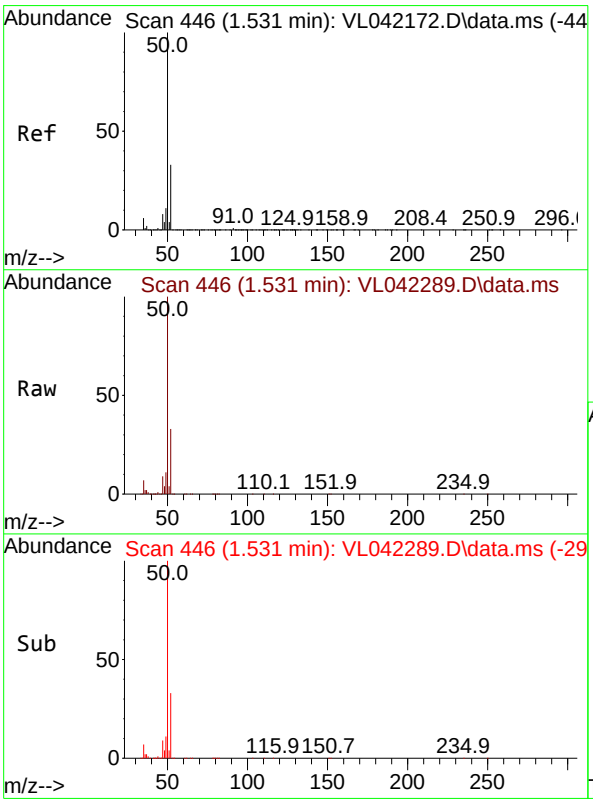
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 18.1 | 15.0 | 22.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

**Manual Integrations**
**APPROVED**

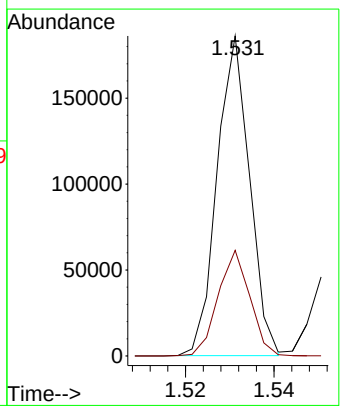
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

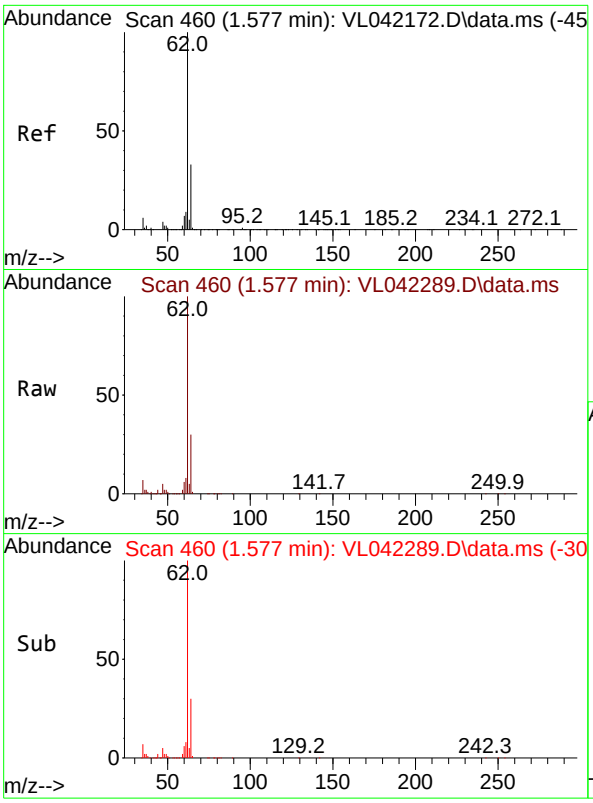



#4
Chloromethane
Concen: 9.770 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 50 Resp: 94644

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.9 | 26.1 | 39.1 |

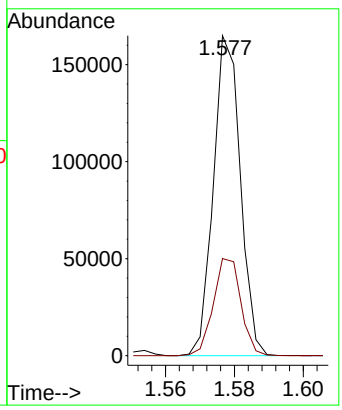





#5
Vinyl Chloride
Concen: 8.714 ppbv
RT: 1.577 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 62 Resp: 8945

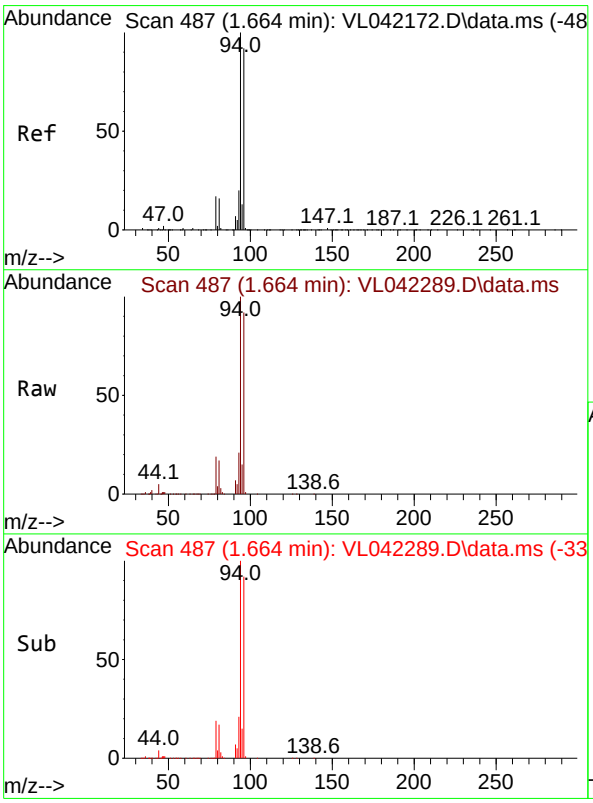
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 30.3 | 26.6 | 40.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

**Manual Integrations**
**APPROVED**

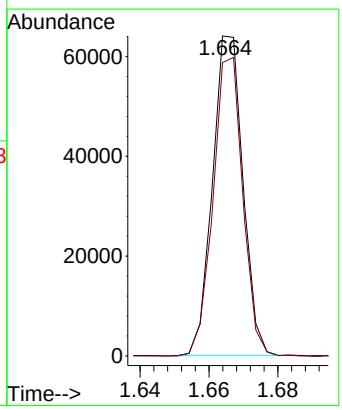
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

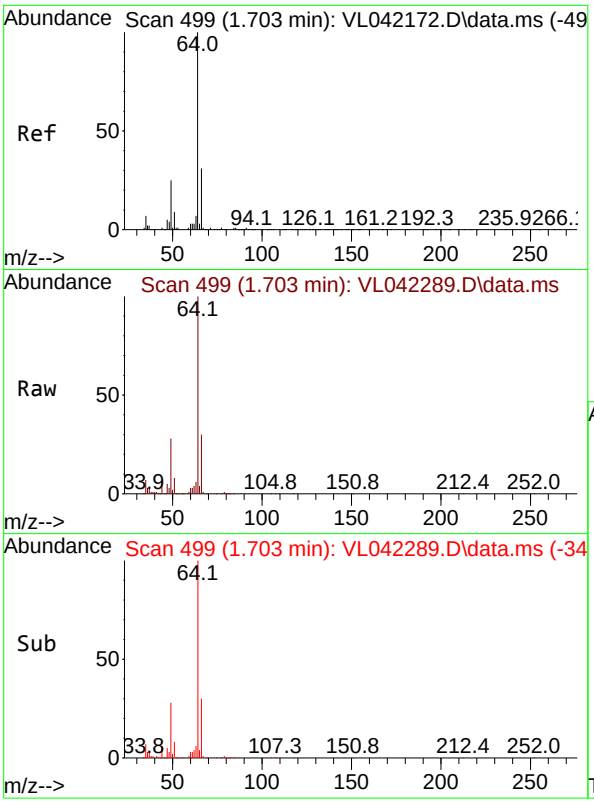



#6
Bromomethane
Concen: 8.983 ppbv
RT: 1.664 min Scan# 487
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 94 Resp: 39433

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 91.7 | 73.1 | 109.7 |

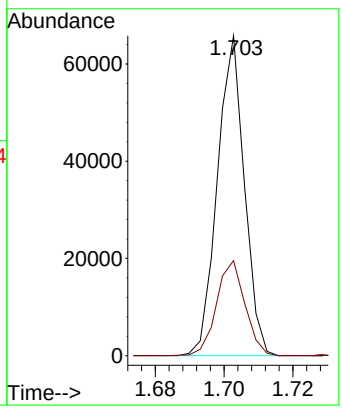





#7
Chloroethane
Concen: 9.208 ppbv
RT: 1.703 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 64 Resp: 3580

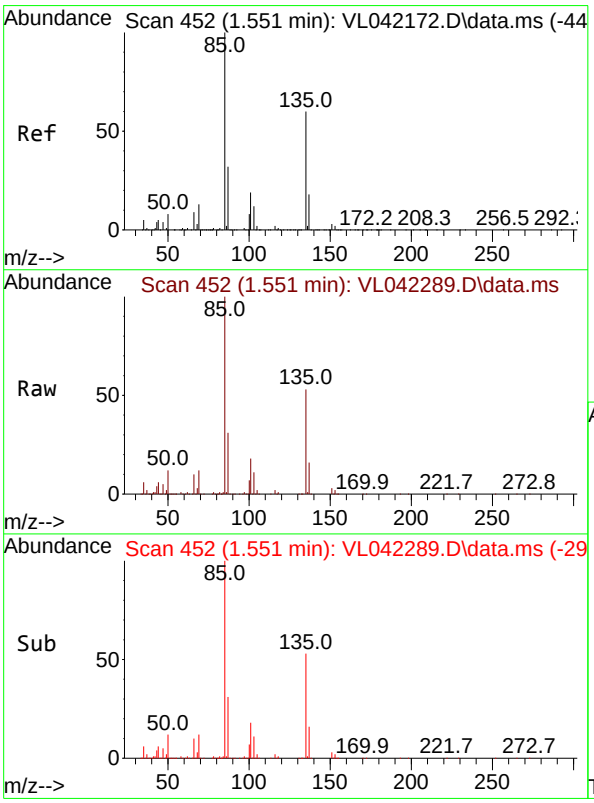
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 29.7 | 25.2 | 37.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

**Manual Integrations**
**APPROVED**

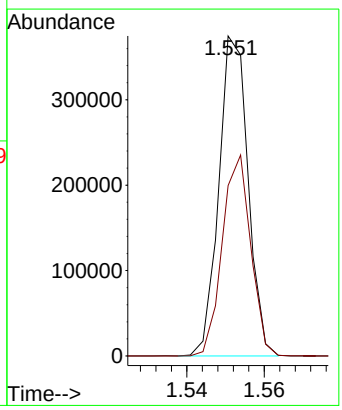
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

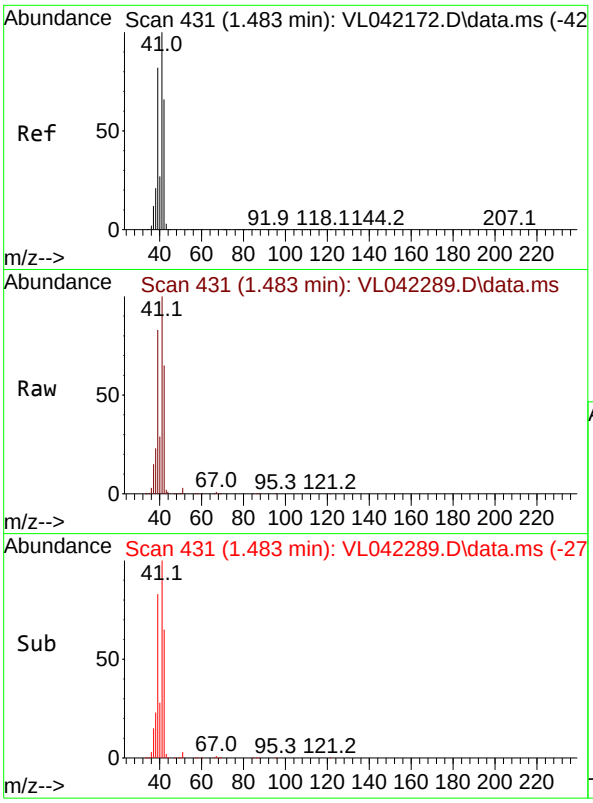



#8
Dichlorotetrafluoroethane
Concen: 9.748 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 85 Resp: 196779

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 61.1 | 52.4 | 78.6 |

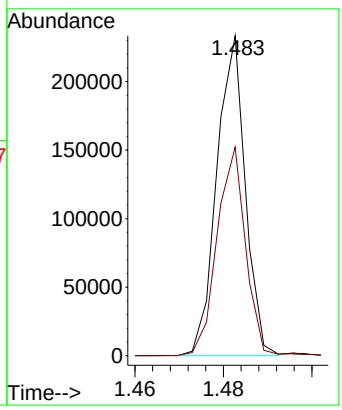





#9
Propene
Concen: 9.409 ppbv
RT: 1.483 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 41 Resp: 10442

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 65.8 | 55.4 | 83.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

**Manual Integrations**
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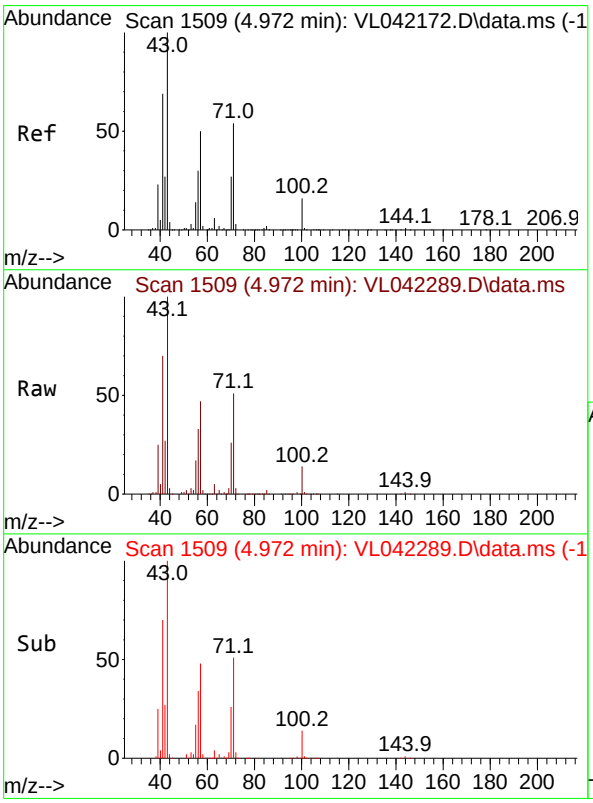
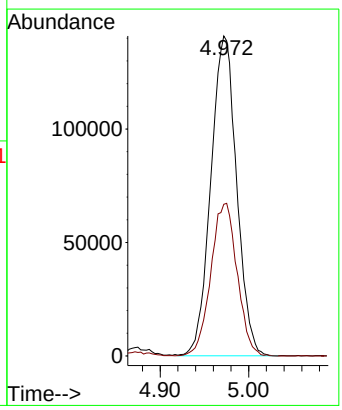
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

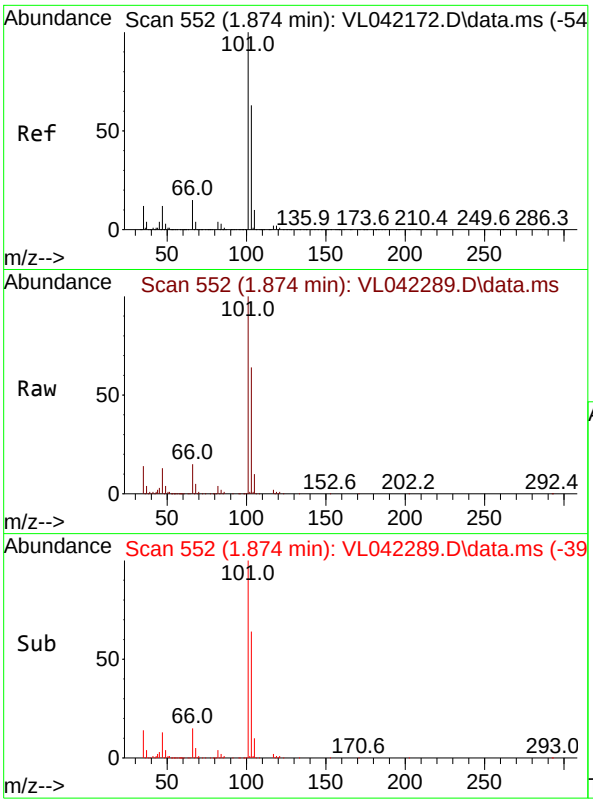



#10
Heptane
Concen: 9.665 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 43 Resp: 285337

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 48.7 | 39.4 | 59.2 |

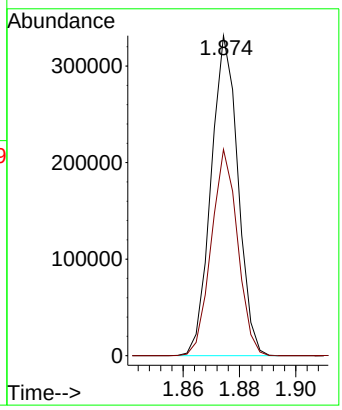





#11
Trichlorofluoromethane
Concen: 9.507 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:101 Resp: 21927

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.5 | 50.2 | 75.2 |




**Instrument :**
MSVOA_L
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VL0409ABS02

**Manual Integrations**
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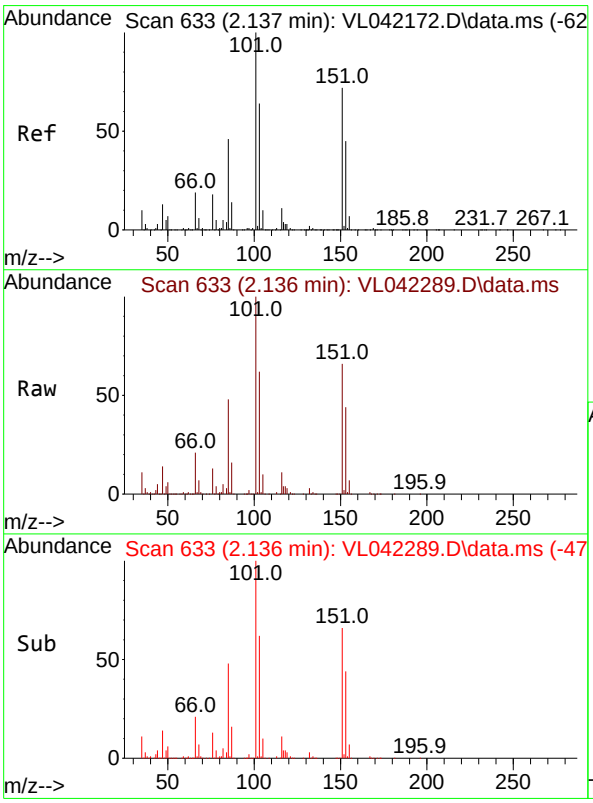
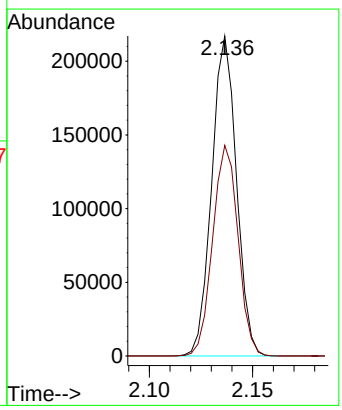
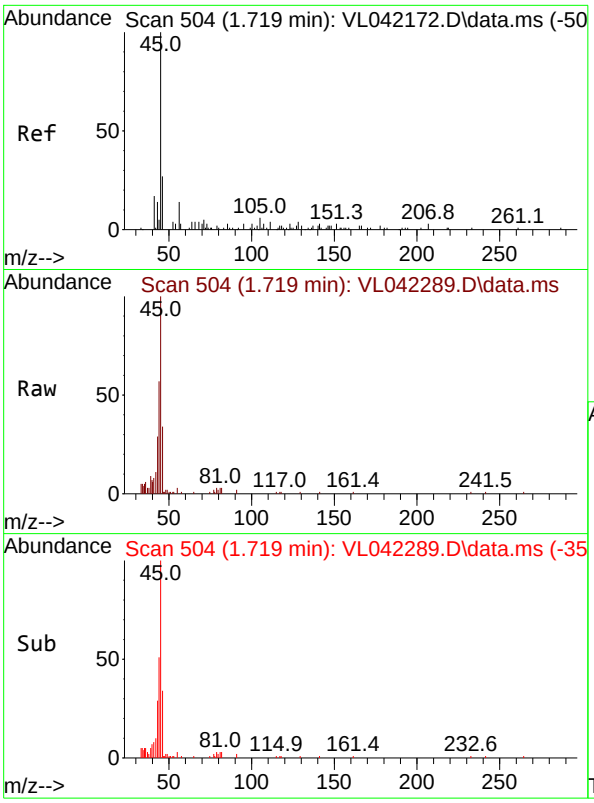



#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.518 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:101 Resp: 180430

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 67.6 | 57.1 | 85.7 |






#13
Ethanol
Concen: 4.530 ppbv
RT: 1.719 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 45 Resp: 475

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 45.9 | 20.2 | 80.8 |

**Instrument :**
MSVOA_L
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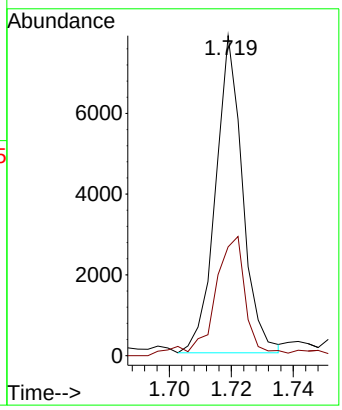
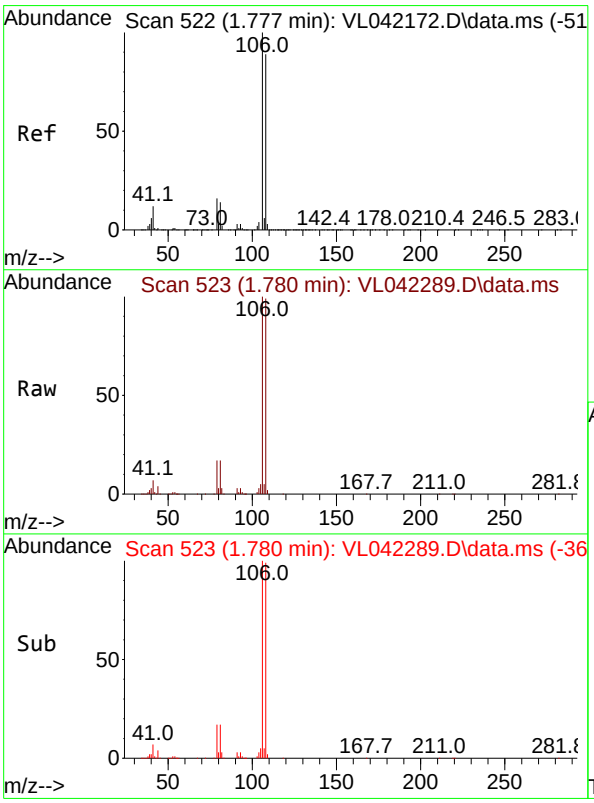
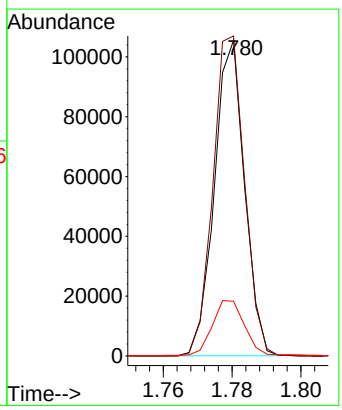


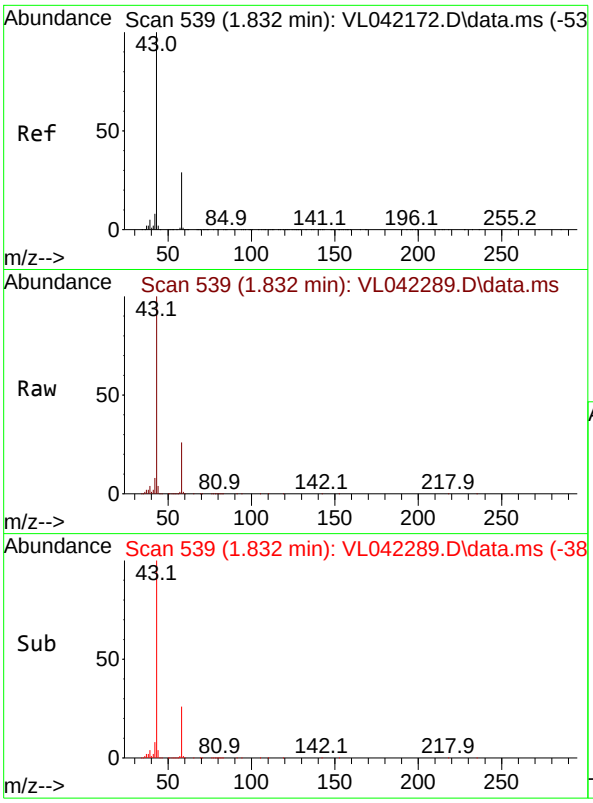




#14
Bromoethene
Concen: 8.837 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:108 Resp: 64175

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 106 | 106.5 | 86.8 | 130.2 |
| 79 | 20.4 | 15.0 | 22.6 |

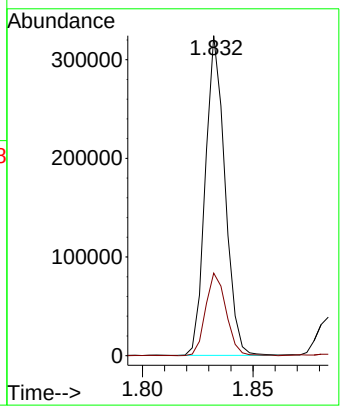





#15
Acetone
Concen: 8.915 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 43 Resp: 20015

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 27.1 | 23.2 | 34.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

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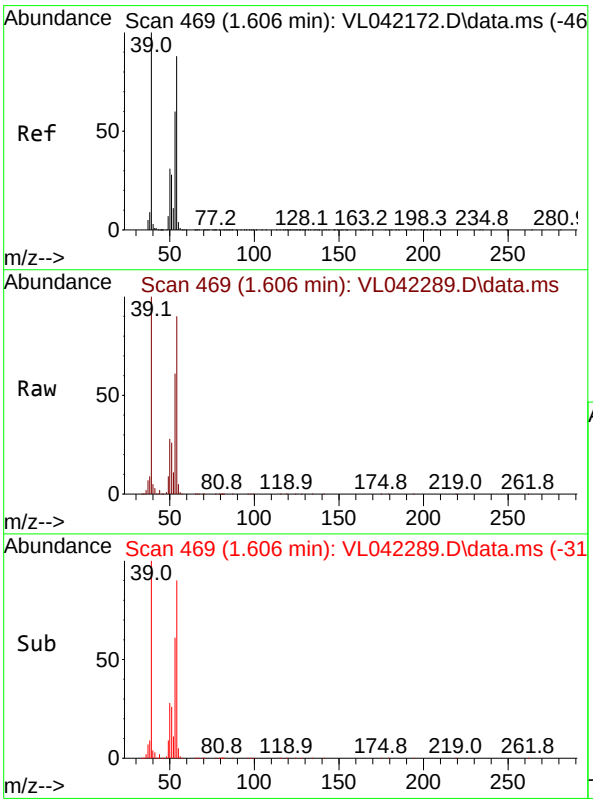
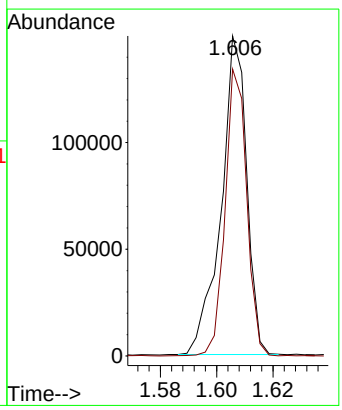
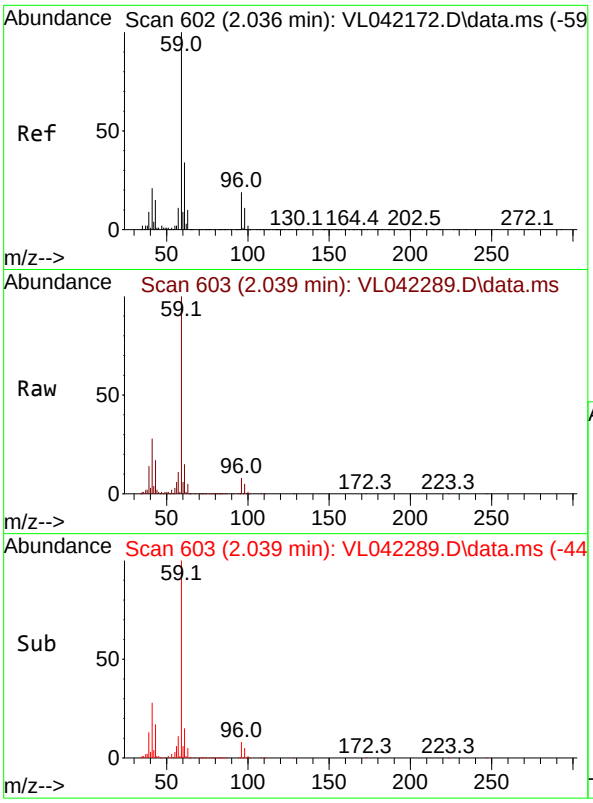



#16
1,3-Butadiene
Concen: 8.569 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 39 Resp: 93954

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 76.4 | 60.7 | 91.1 |

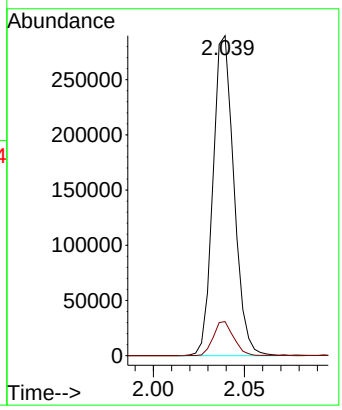





#17
tert-Butyl alcohol
Concen: 8.271 ppbv
RT: 2.039 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 59 Resp: 23129

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.5 | 8.9 | 13.3 |




**Instrument :**
MSVOA_L
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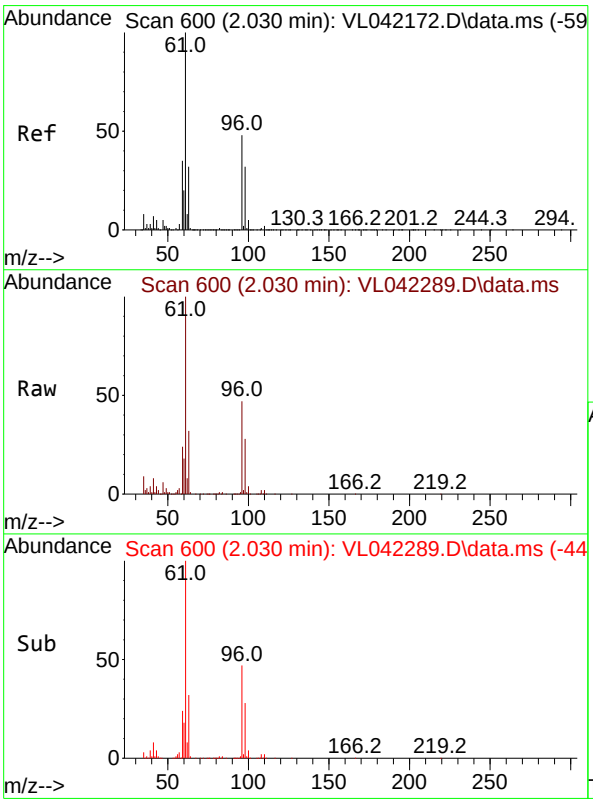
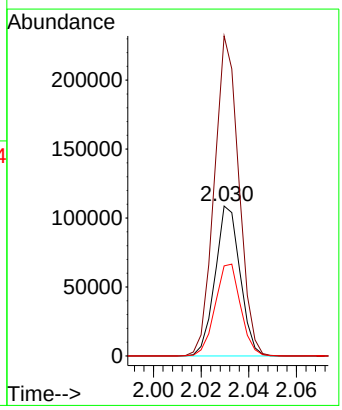
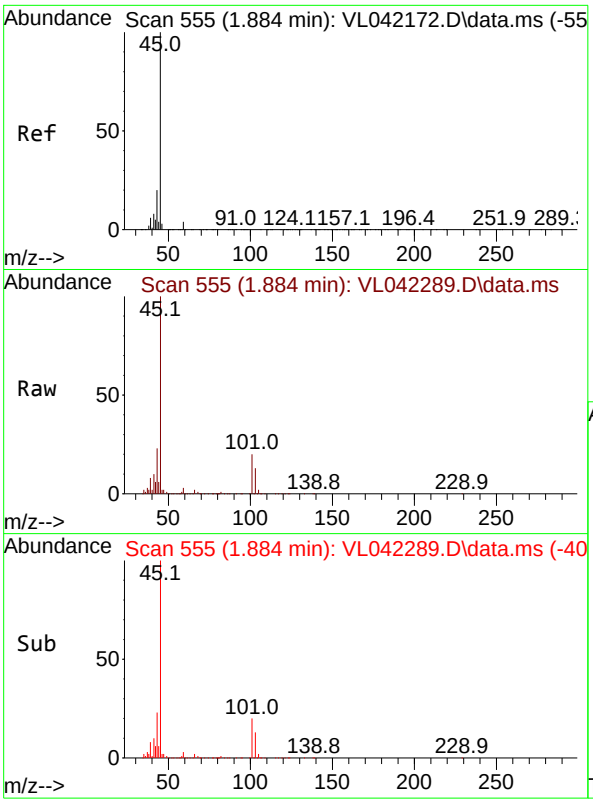



#18
1,1-Dichloroethene
Concen: 8.912 ppbv
RT: 2.030 min Scan# 600
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 96 Resp: 78979

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 213.3 | 167.6 | 251.4 |
| 98 | 60.0 | 53.5 | 80.3 |

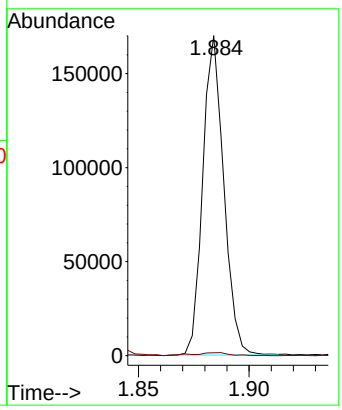





#19
Isopropyl Alcohol
Concen: 8.835 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 45 Resp: 11191

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 48.5 | 36.9 | 55.3 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

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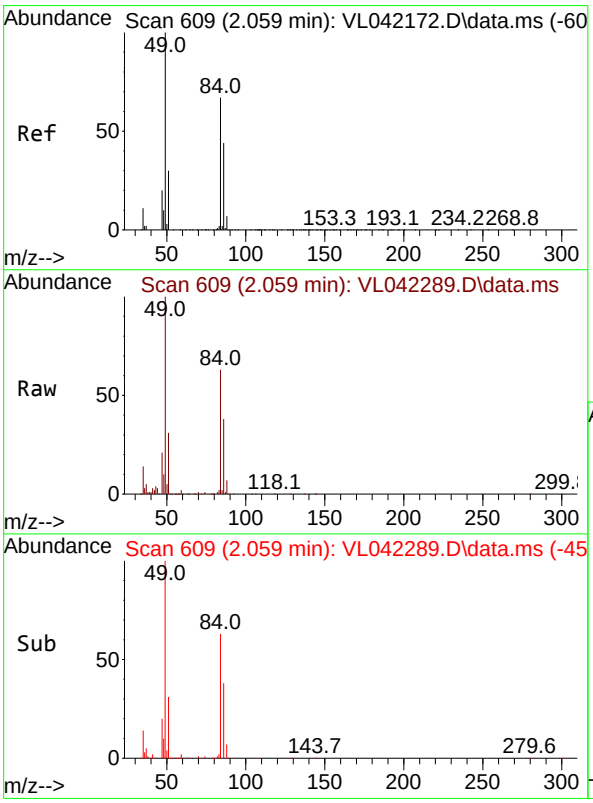
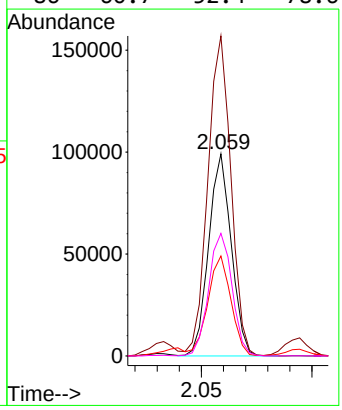
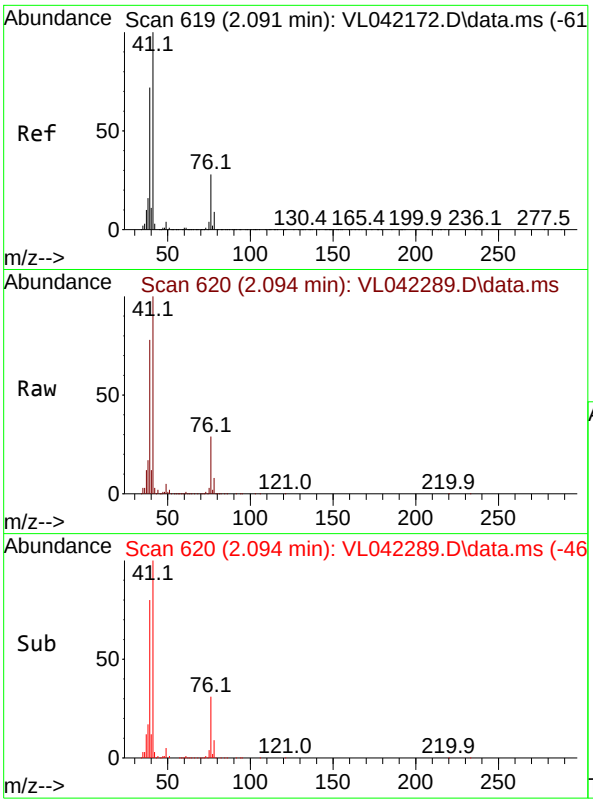



#20
Methylene Chloride
Concen: 8.444 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 84 Resp: 70611

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 156.0 | 120.2 | 180.4 |
| 51 | 48.6 | 37.4 | 56.0 |
| 86 | 60.7 | 52.4 | 78.6 |






#21
Allyl Chloride
Concen: 9.308 ppbv
RT: 2.094 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 41 Resp: 14738

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 27.7 | 24.1 | 36.1 |
| 39 | 77.7 | 61.1 | 91.7 |

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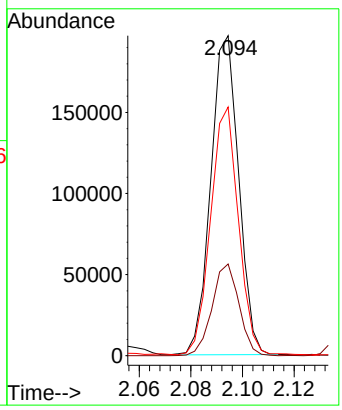
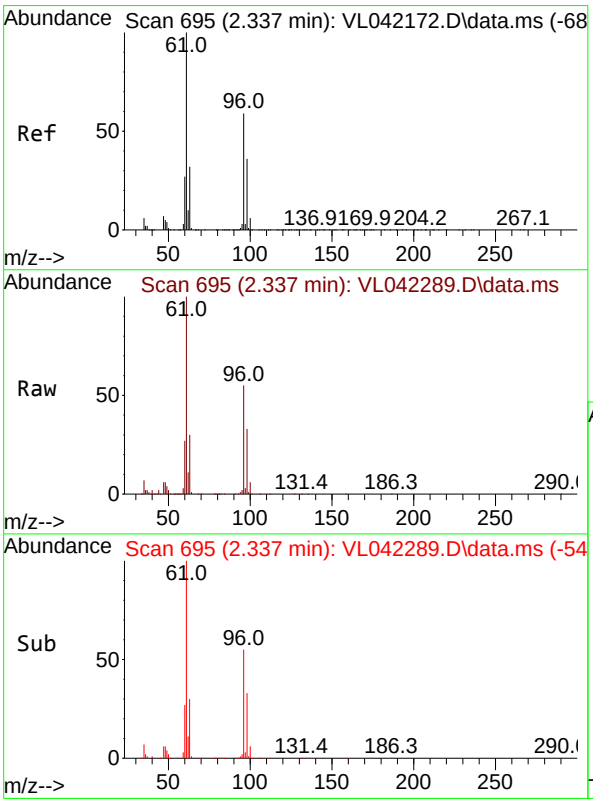
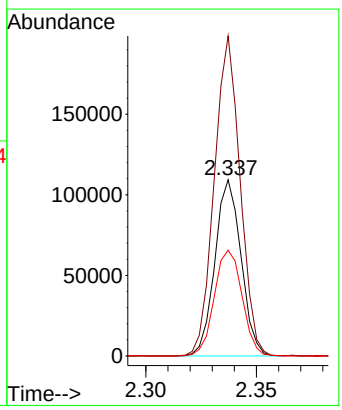


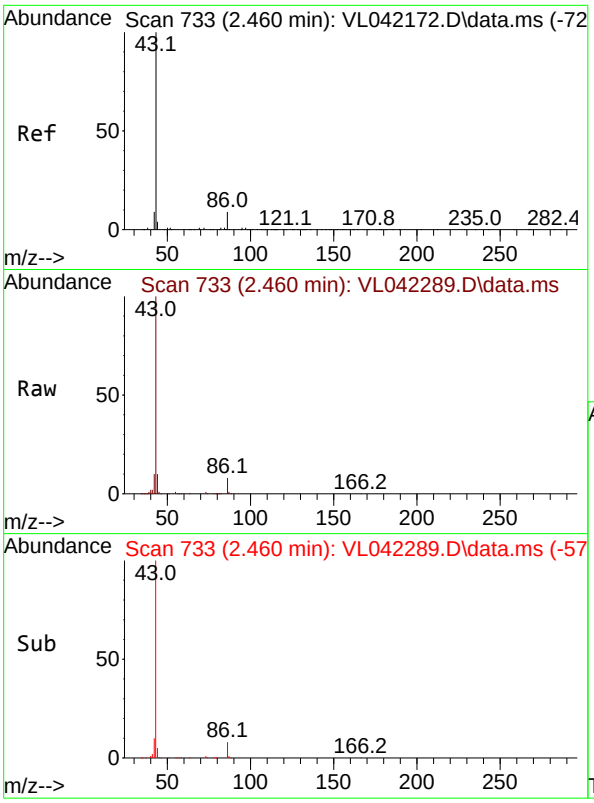




#22
trans-1,2-Dichloroethene
Concen: 8.775 ppbv
RT: 2.337 min Scan# 695
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 96 Resp: 89877

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 181.6 | 136.6 | 204.8 |
| 98 | 60.0 | 49.4 | 74.2 |

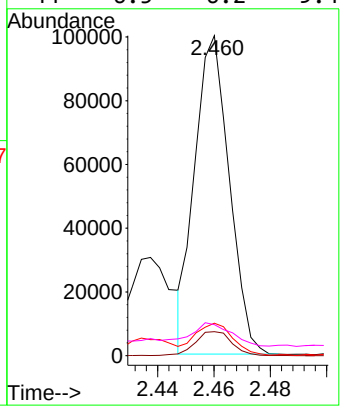





#23
Vinyl Acetate
Concen: 8.750 ppbv
RT: 2.460 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 43 Resp: 8502

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 7.5 | 5.5 | 8.3 |
| 42 | 9.9 | 8.6 | 13.0 |
| 44 | 6.5 | 6.2 | 9.4 |

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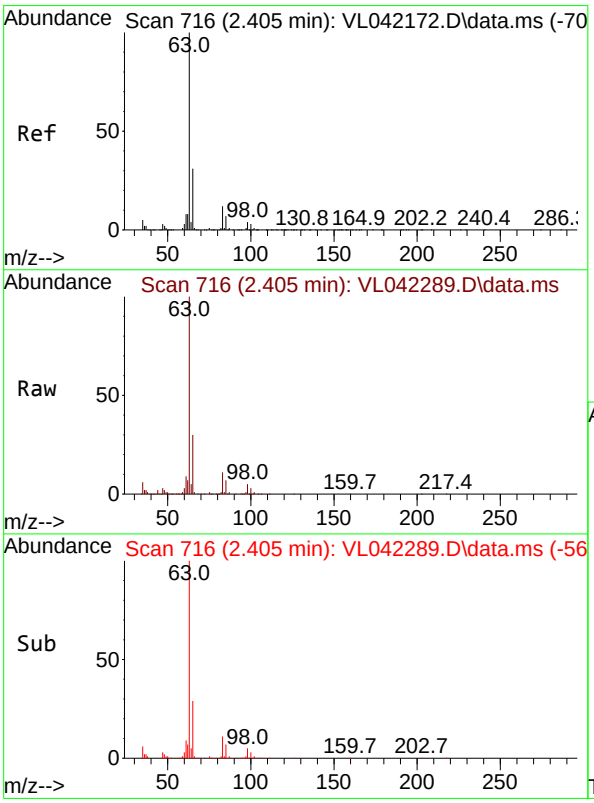
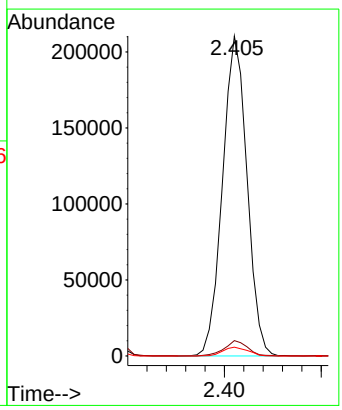
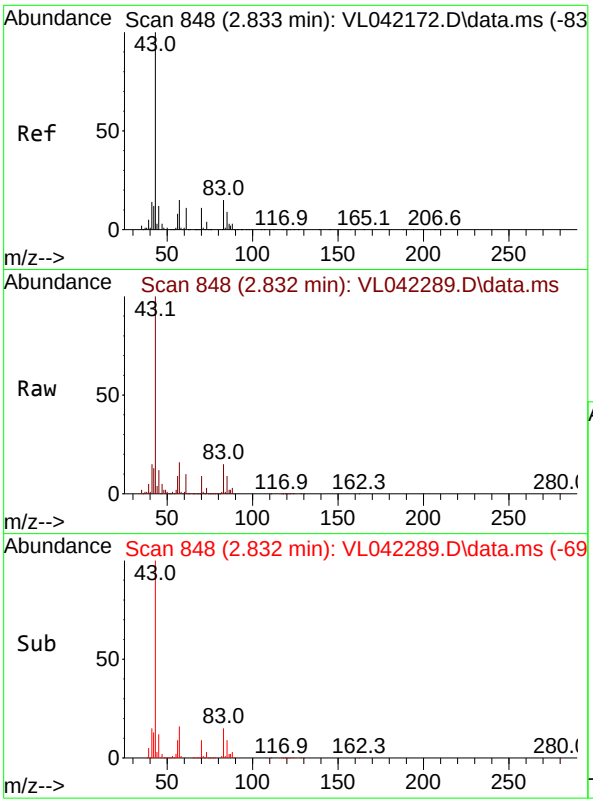



#24
1,1-Dichloroethane
Concen: 9.733 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 63 Resp: 184801

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 4.8 | 2.3 | 6.8 |
| 100 | 2.8 | 1.6 | 4.7 |

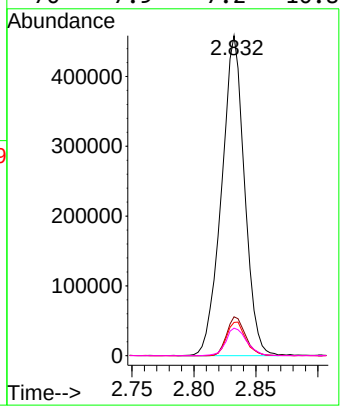





#25
Ethyl Acetate
Concen: 10.137 ppbv
RT: 2.832 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 43 Resp: 59069

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 10.0 | 8.2 | 12.2 |
| 61 | 8.7 | 7.3 | 10.9 |
| 70 | 7.9 | 7.2 | 10.8 |

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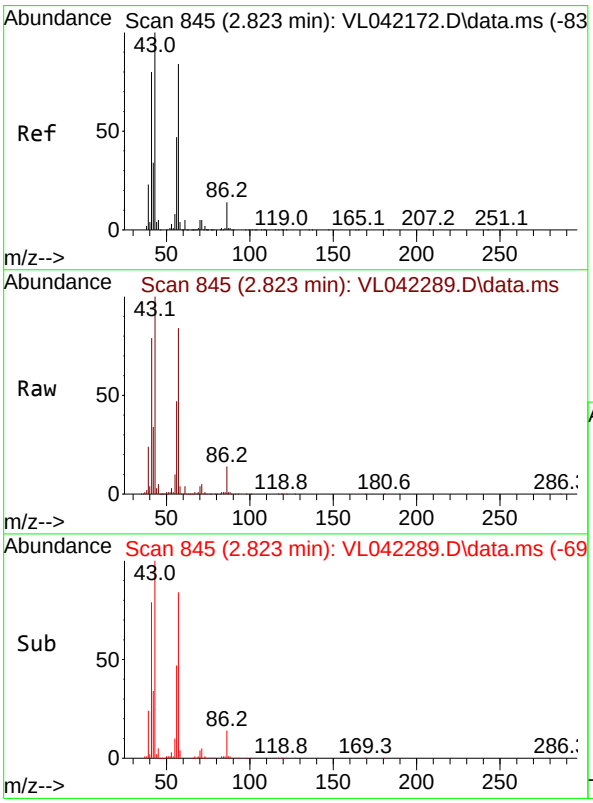
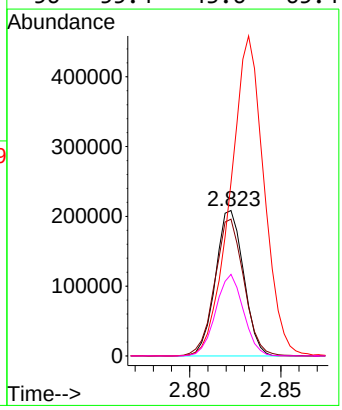
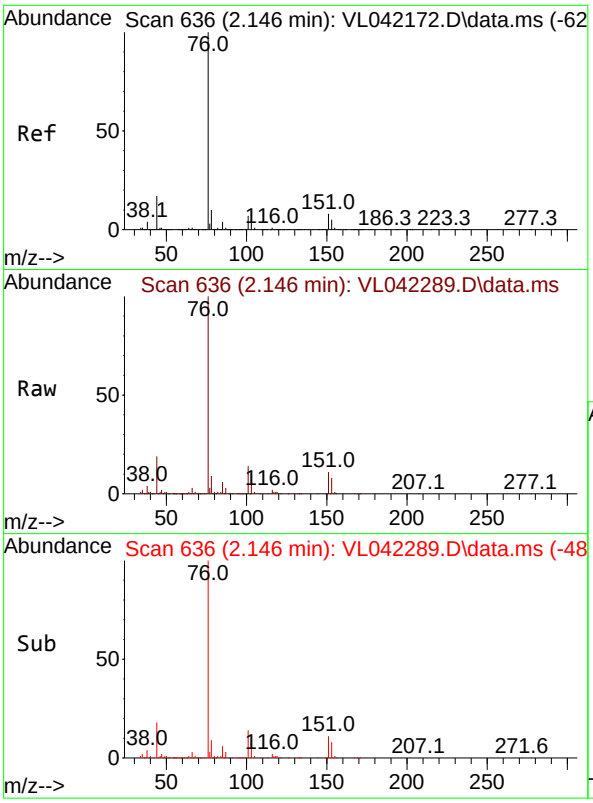



#26
Hexane
Concen: 9.943 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 57 Resp: 223800

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 97.7 | 76.6 | 114.8 |
| 43 | 264.7 | 207.8 | 311.8 |
| 56 | 55.4 | 43.6 | 65.4 |

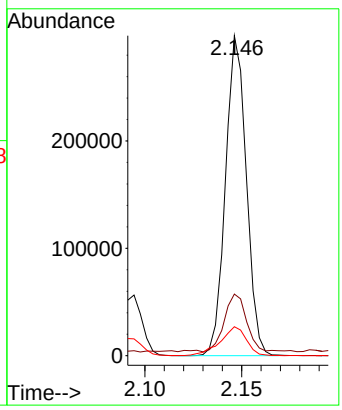





#27
Carbon Disulfide
Concen: 9.267 ppbv
RT: 2.146 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 76 Resp: 22367

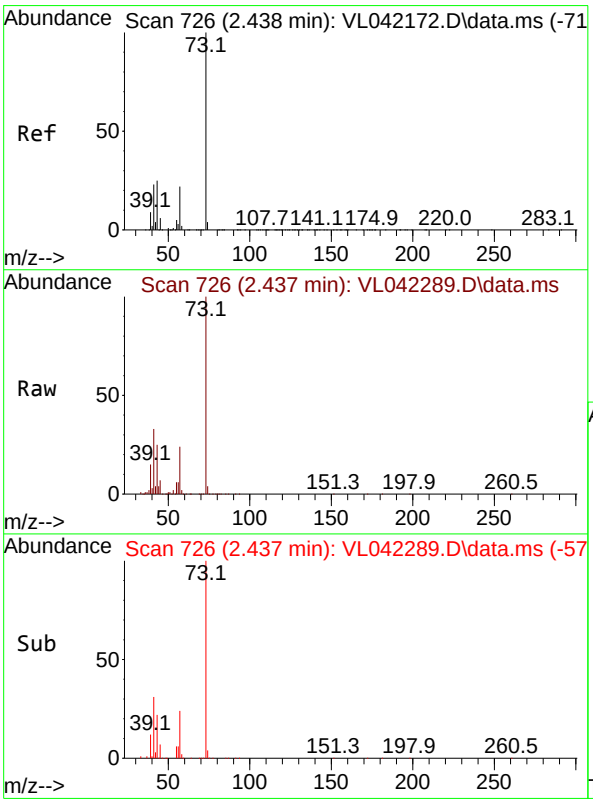
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 19.6 | 14.7 | 22.1 |
| 78 | 11.3 | 9.3 | 13.9 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

**Manual Integrations**
**APPROVED**

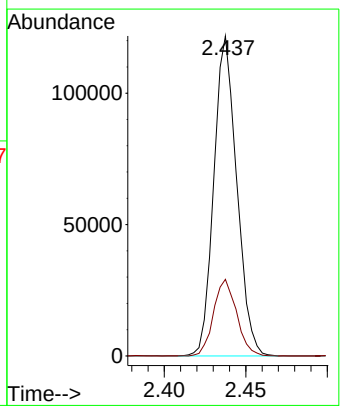
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

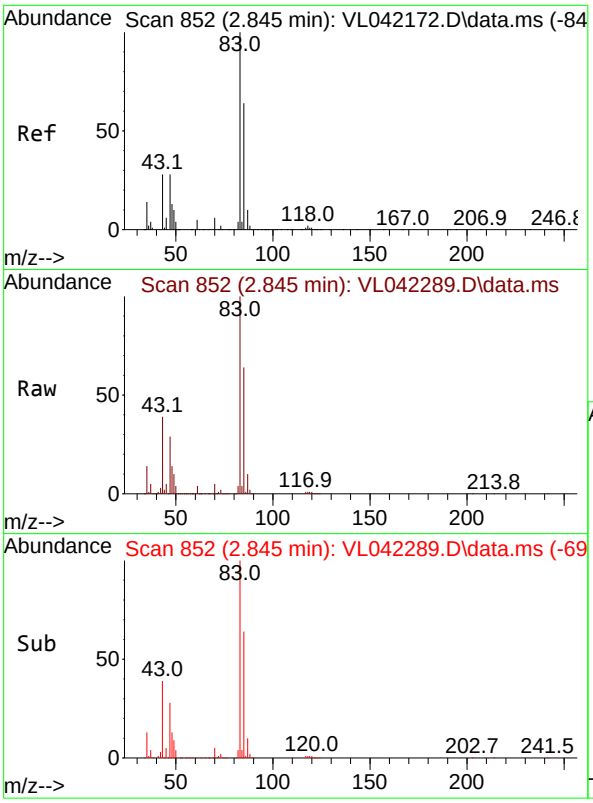



#28
Methyl tert-Butyl Ether
Concen: 8.494 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 73 Resp: 119034

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 24.2 | 20.5 | 30.7 |

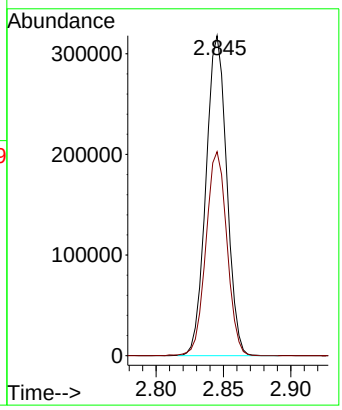





#29
Chloroform
Concen: 10.353 ppbv
RT: 2.845 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 83 Resp: 34104

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.8 | 51.4 | 77.2 |




**Instrument :**
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**ClientSampleId :**
VL0409ABS02

**Manual Integrations**
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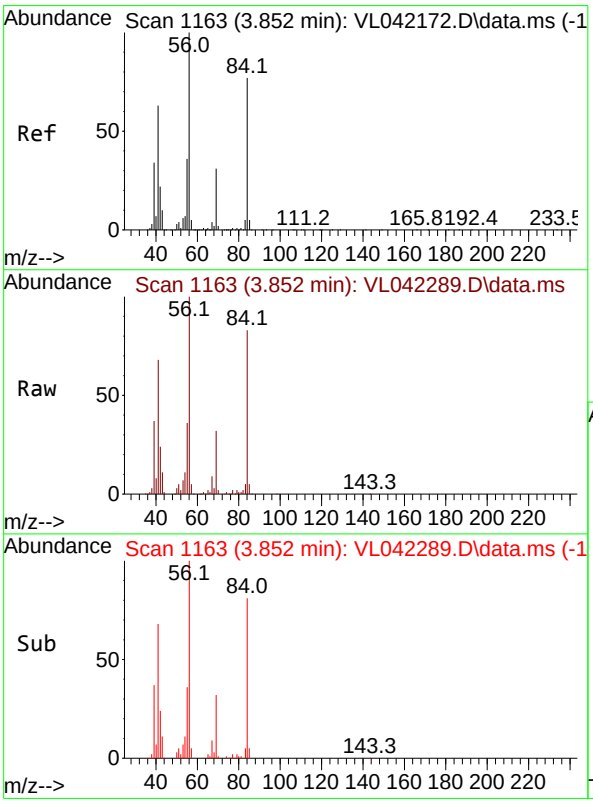
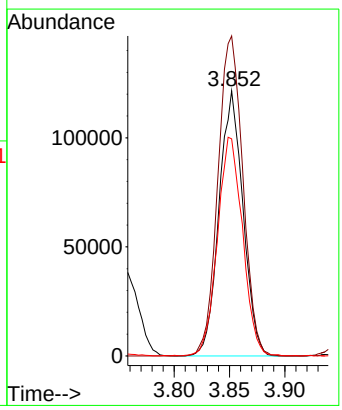
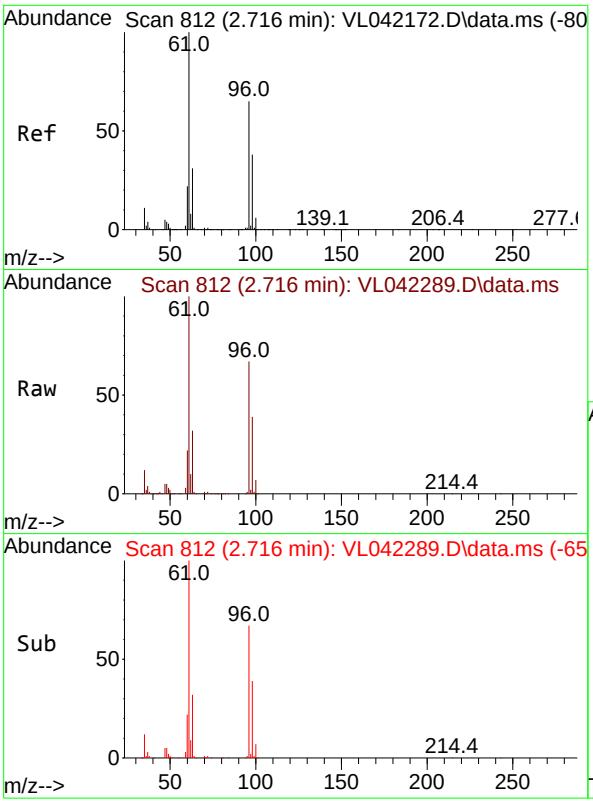



#30
Cyclohexane
Concen: 9.357 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 84 Resp: 182880

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 125.8 | 102.8 | 154.2 |
| 41 | 86.5 | 66.5 | 99.7 |

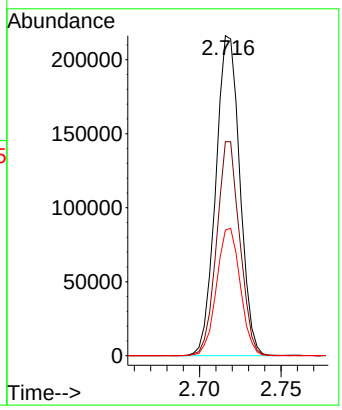





#31
cis-1,2-Dichloroethene
Concen: 9.710 ppbv
RT: 2.716 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 61 Resp: 22188

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 66.9 | 51.8 | 77.8 |
| 98 | 39.2 | 30.6 | 46.0 |




**Instrument :**
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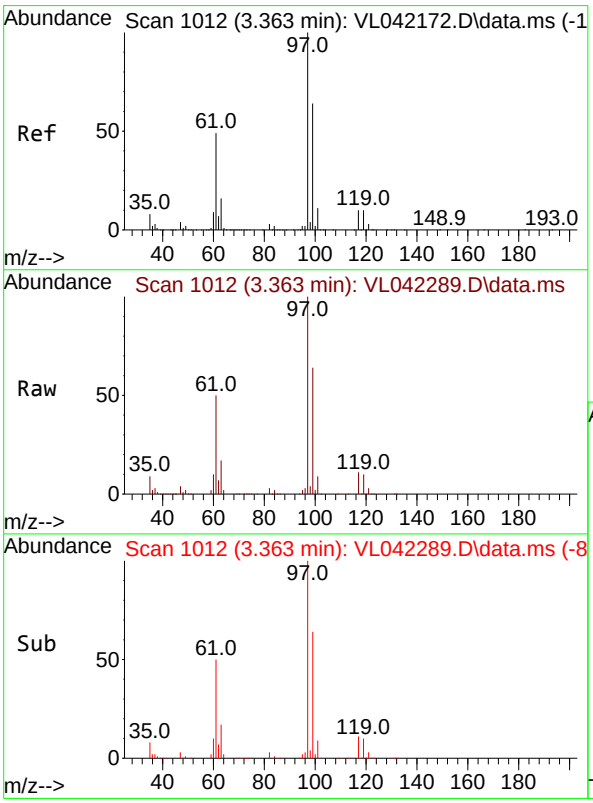
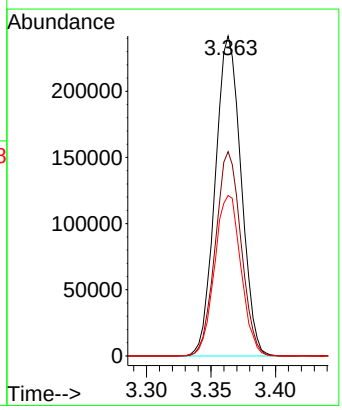
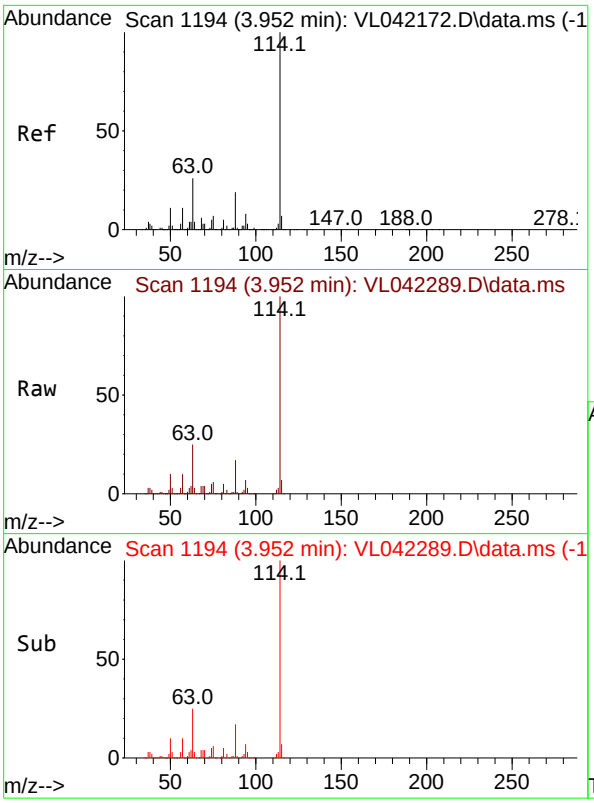



#32
1,1,1-Trichloroethane
Concen: 8.923 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 97 Resp: 336493

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.4 | 51.5 | 77.3 |
| 61 | 51.2 | 38.7 | 58.1 |






#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:114 Resp: 42184

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.2 | 20.7 | 31.1 |
| 88 | 17.3 | 15.0 | 22.4 |

**Instrument :**
MSVOA_L
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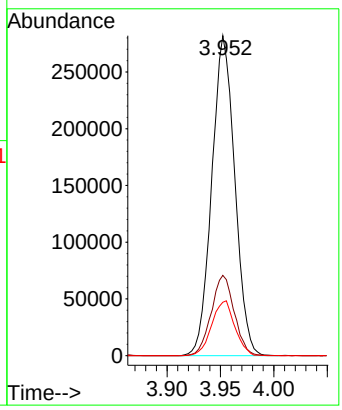
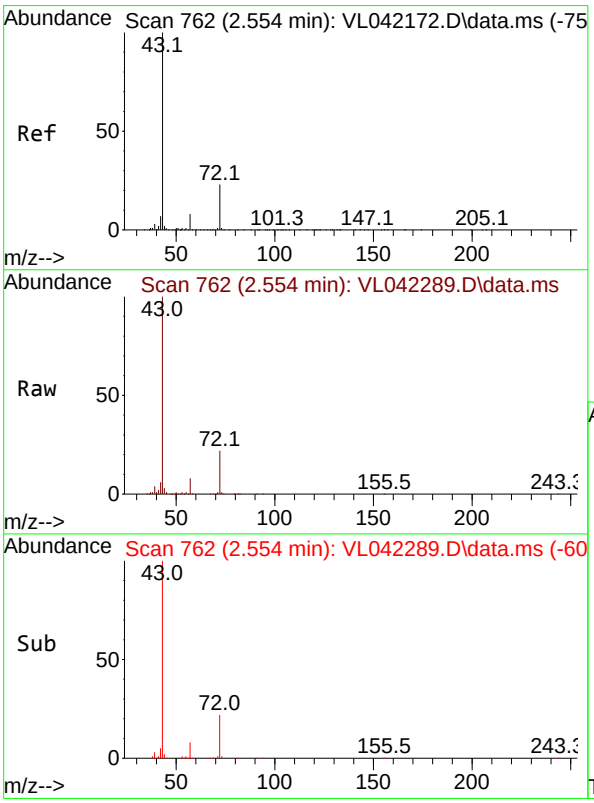
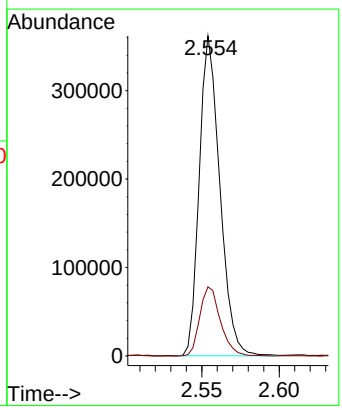


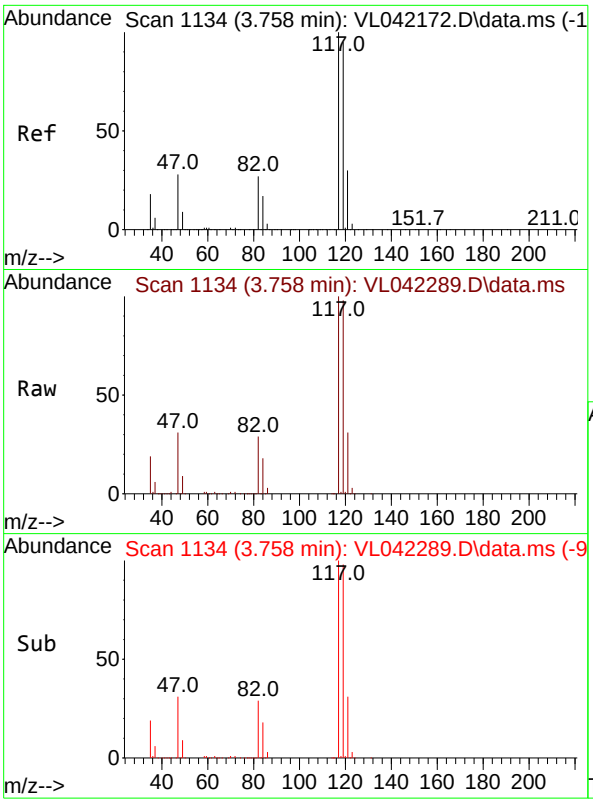




#34
2-Butanone
Concen: 10.940 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 43 Resp: 334636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 21.7 | 18.2 | 27.2 |

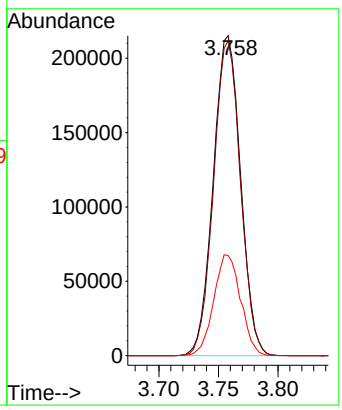





#35
Carbon Tetrachloride
Concen: 10.420 ppbv
RT: 3.758 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:117 Resp: 34337

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 98.4 | 76.2 | 114.2 |
| 121 | 31.3 | 24.2 | 36.4 |




**Instrument :**
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**Manual Integrations**
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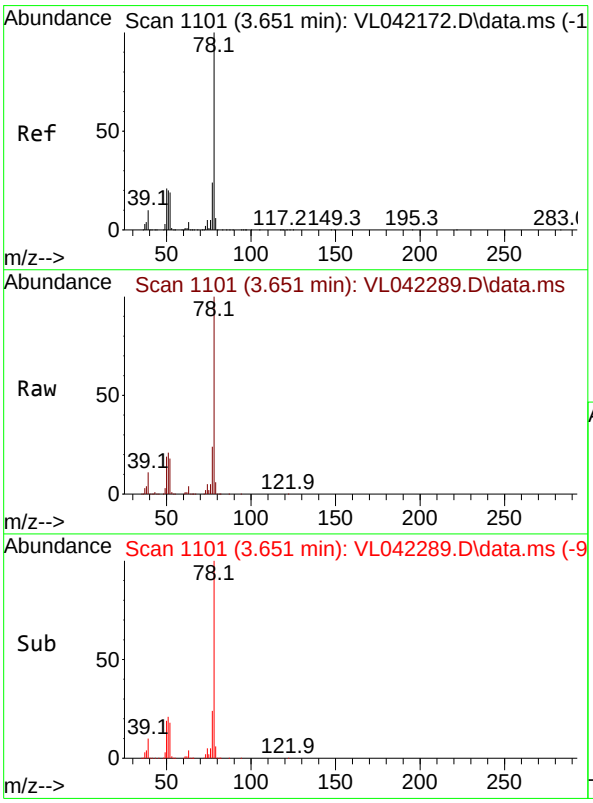
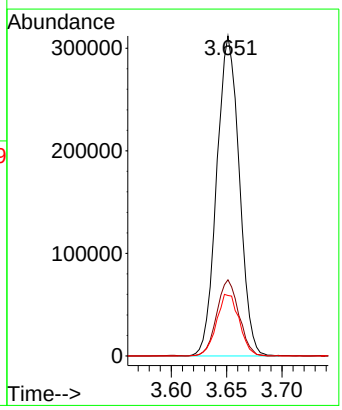
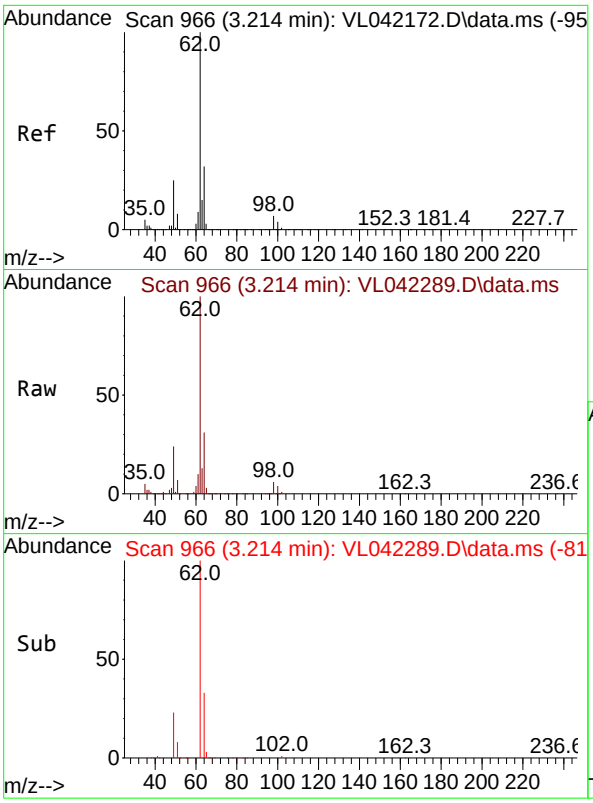



#36
Benzene
Concen: 10.586 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 78 Resp: 442736

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.7 | 19.1 | 28.7 |
| 50 | 18.9 | 16.6 | 24.8 |

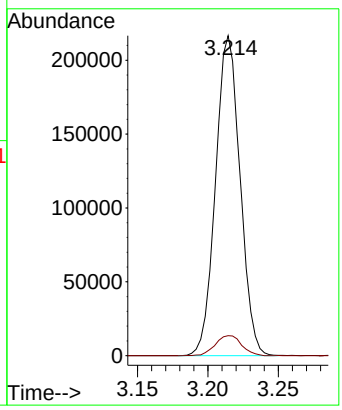





#37
1,2-Dichloroethane
Concen: 10.965 ppbv
RT: 3.214 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 62 Resp: 26252

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 6.8 | 5.4 | 8.2 |

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**ClientSampleId :**
VL0409ABS02

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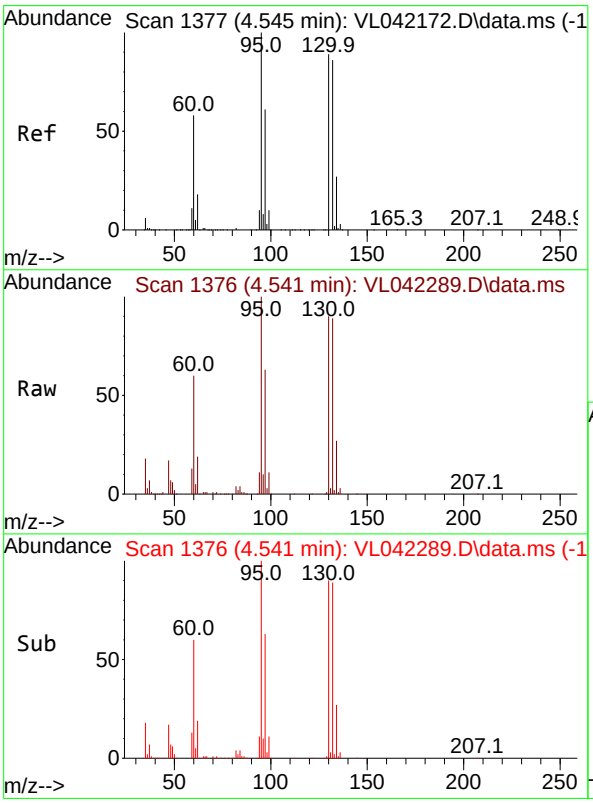
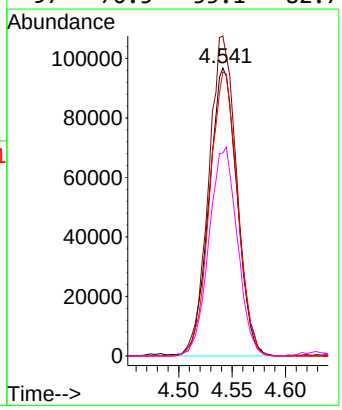
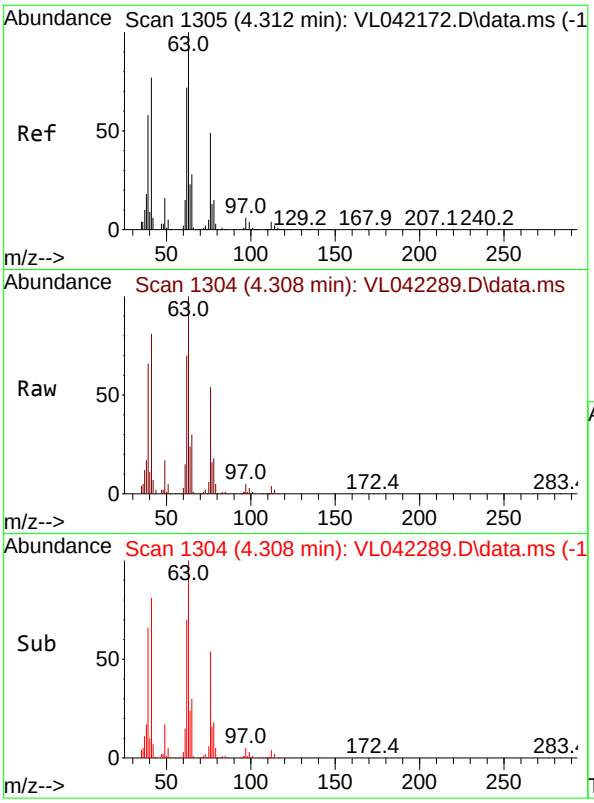



#38
Trichloroethene
Concen: 10.111 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. -0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:130 Resp: 176435

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 111.1 | 89.8 | 134.8 |
| 132 | 98.6 | 77.4 | 116.2 |
| 97 | 70.5 | 55.1 | 82.7 |

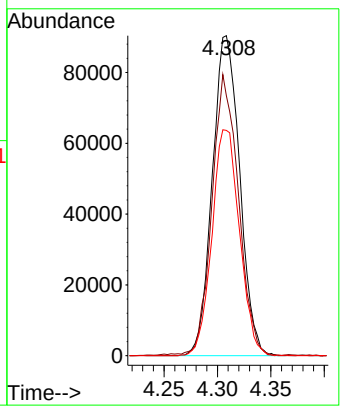





#39
1,2-Dichloropropane
Concen: 10.578 ppbv
RT: 4.308 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 63 Resp: 16110

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 81.1 | 61.7 | 92.5 |
| 62 | 70.4 | 57.6 | 86.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
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**Manual Integrations**
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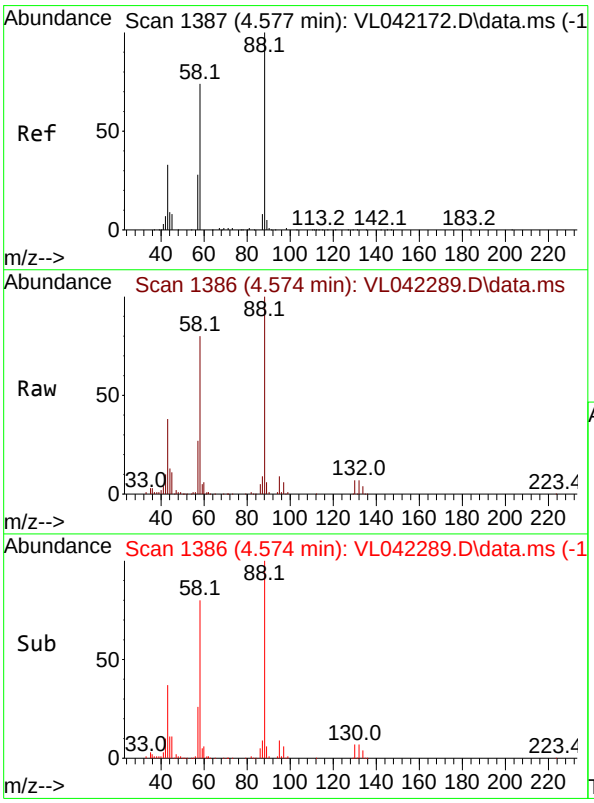
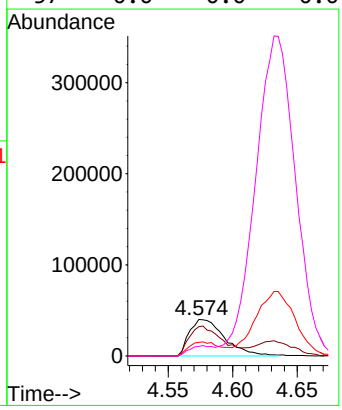
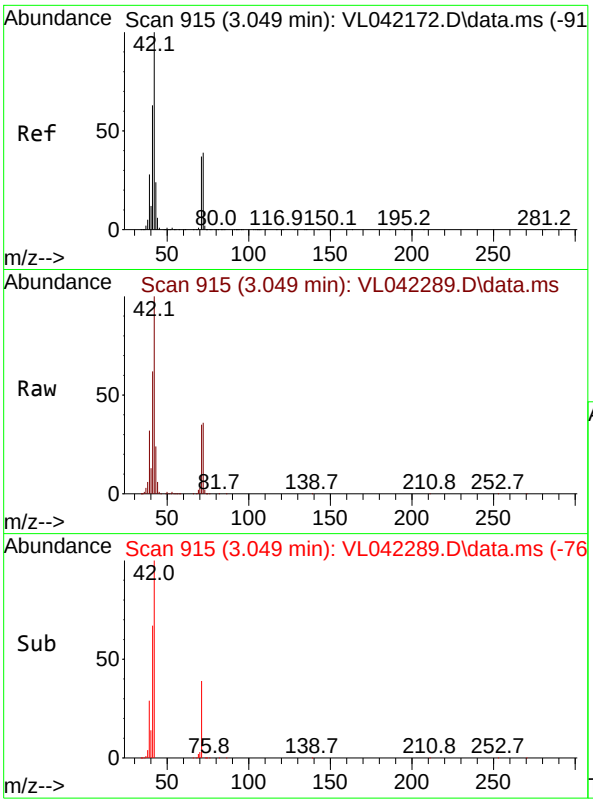



#40
1,4-Dioxane
Concen: 9.441 ppbv
RT: 4.574 min Scan# 1386
Delta R.T. -0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 88 Resp: 76321

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 80.1 | 62.7 | 94.1 |
| 43 | 32.6 | 23.0 | 34.4 |
| 57 | 0.0 | 0.0 | 0.0 |

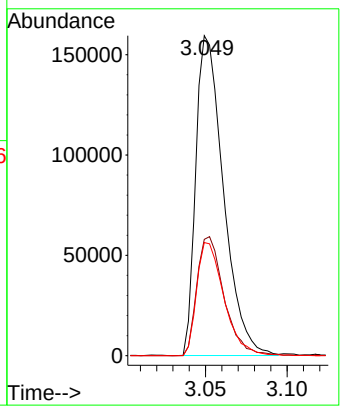





#41
Tetrahydrofuran
Concen: 10.661 ppbv
RT: 3.049 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 42 Resp: 18779

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 36.8 | 31.4 | 47.0 |
| 71 | 35.0 | 30.2 | 45.4 |

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**ClientSampleId :**
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**Manual Integrations**
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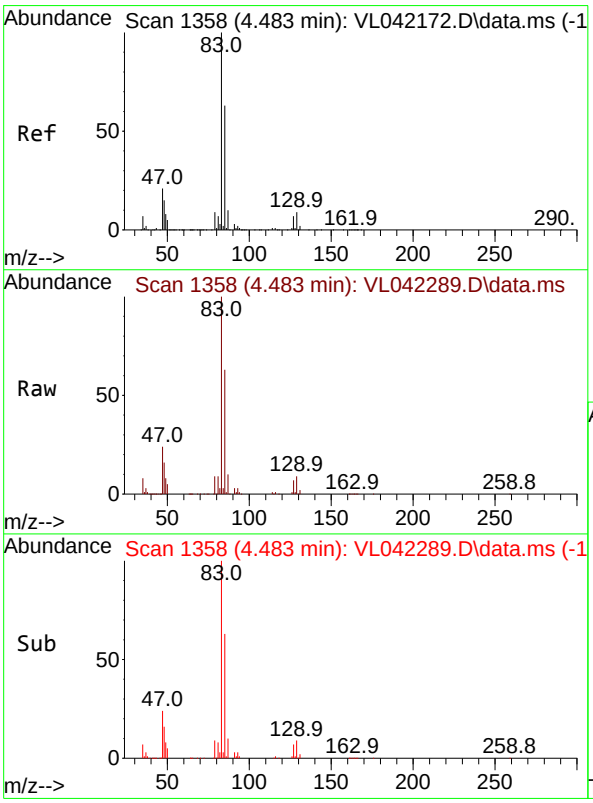
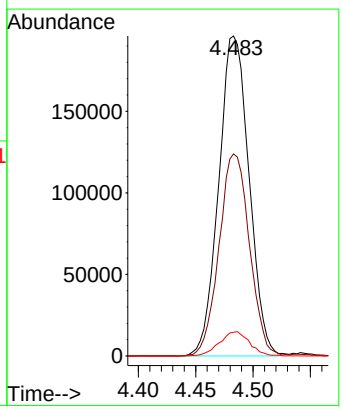
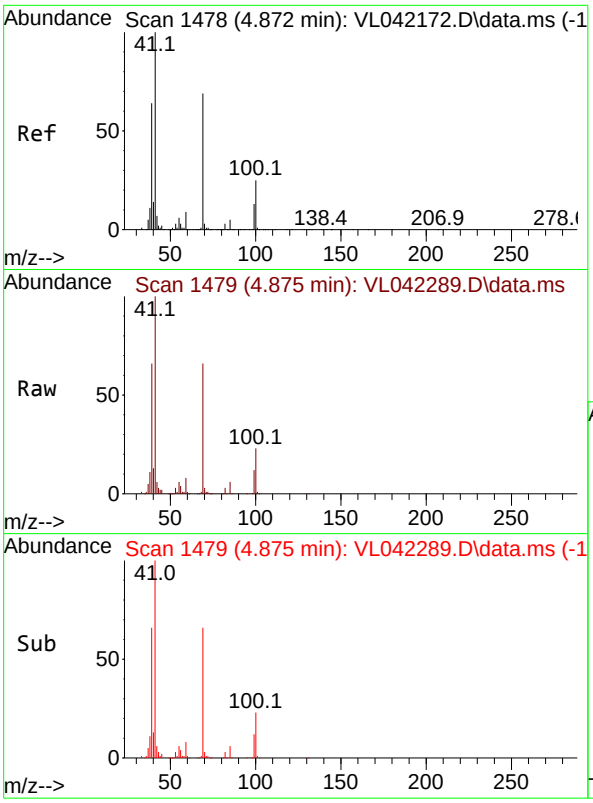



#42
Bromodichloromethane
Concen: 10.927 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 83 Resp: 360662

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.1 | 50.5 | 75.7 |
| 127 | 7.4 | 5.9 | 8.9 |

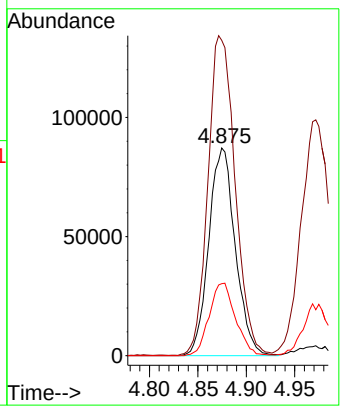





#43
Methyl Methacrylate
Concen: 9.375 ppbv
RT: 4.875 min Scan# 14
Delta R.T. 0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 69 Resp: 16598

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 157.7 | 123.8 | 185.6 |
| 100 | 34.7 | 28.4 | 42.6 |




**Instrument :**
MSVOA_L
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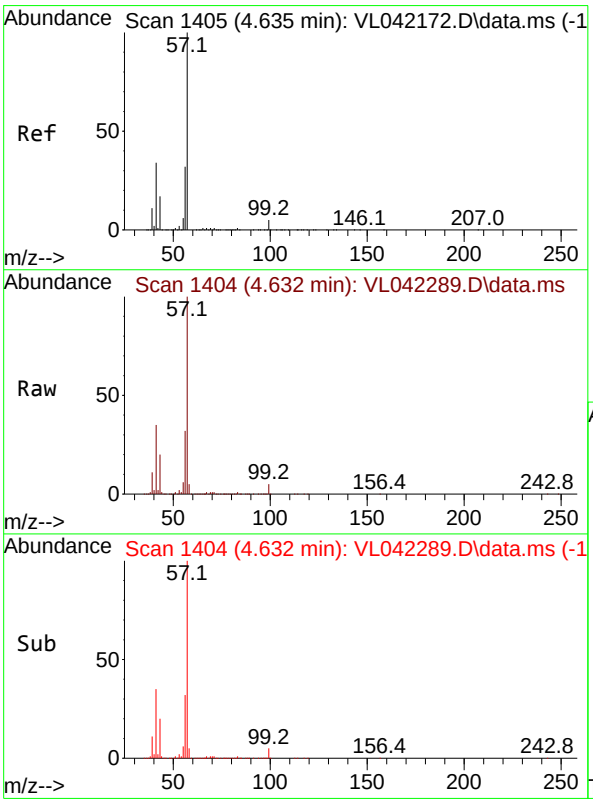
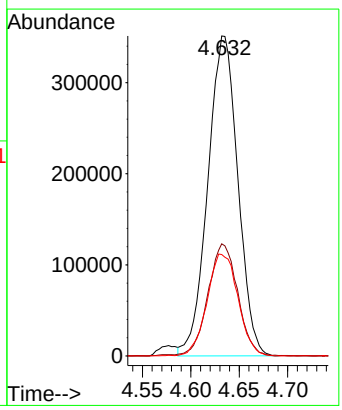
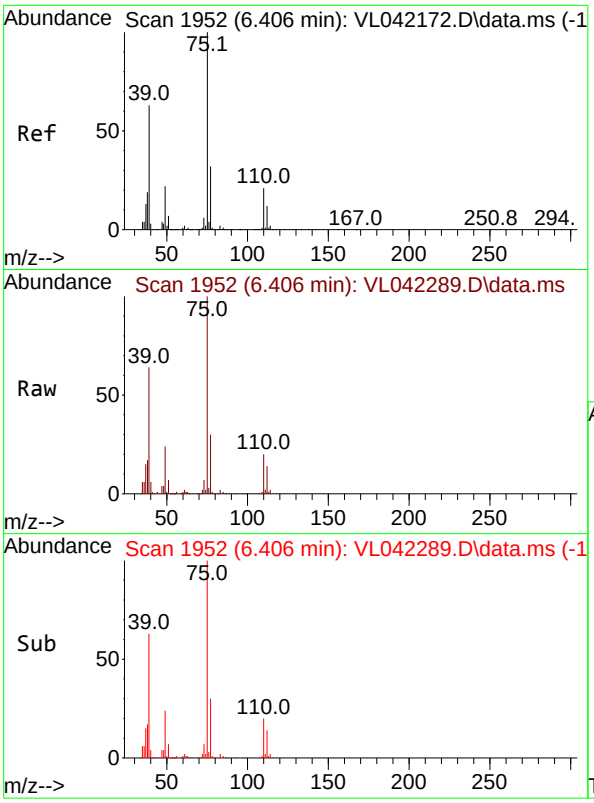



#44
2,2,4-Trimethylpentane
Concen: 10.723 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. -0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 57 Resp: 757855

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 35.2 | 26.8 | 40.2 |
| 56 | 32.9 | 25.6 | 38.4 |

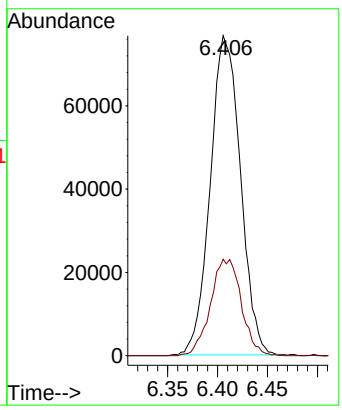





#45
t-1,3-Dichloropropene
Concen: 8.489 ppbv
RT: 6.406 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 75 Resp: 16124

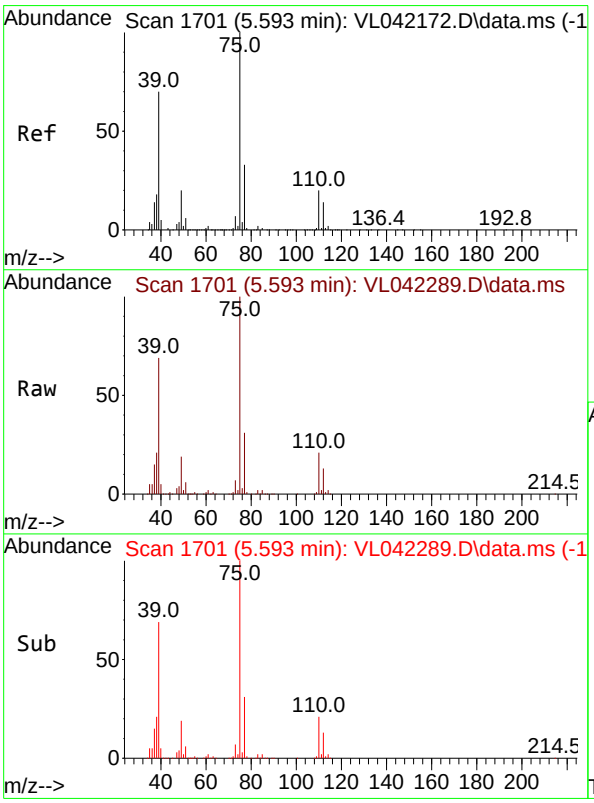
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.2 | 26.0 | 39.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

**Manual Integrations**
**APPROVED**

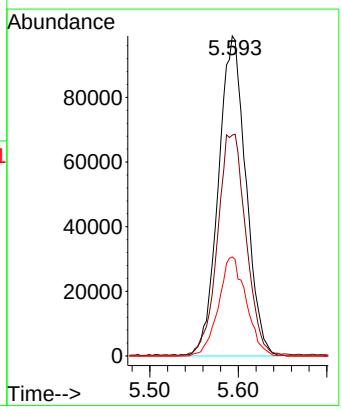
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

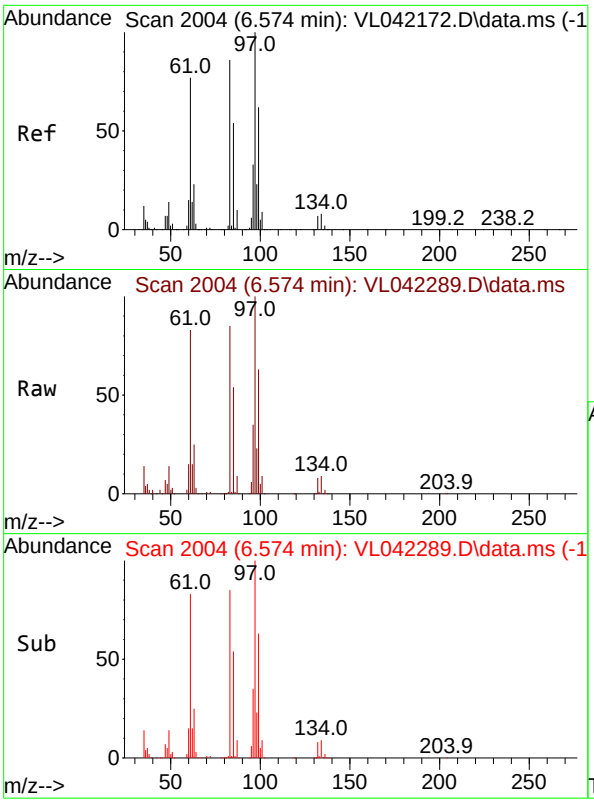



#46
cis-1,3-Dichloropropene
Concen: 9.172 ppbv
RT: 5.593 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 75 Resp: 213566

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 39 | 68.8 | 55.8 | 83.6 |
| 77 | 30.9 | 26.0 | 39.0 |

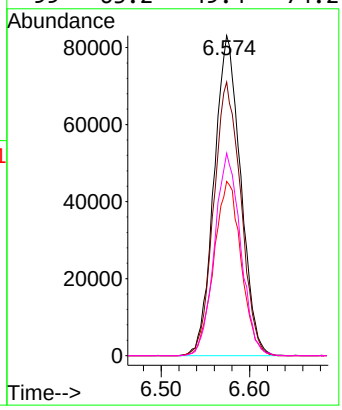





#47
1,1,2-Trichloroethane
Concen: 10.777 ppbv
RT: 6.574 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 97 Resp: 17350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 85.5 | 69.2 | 103.8 |
| 85 | 54.4 | 43.1 | 64.7 |
| 99 | 63.2 | 49.4 | 74.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

**Manual Integrations**
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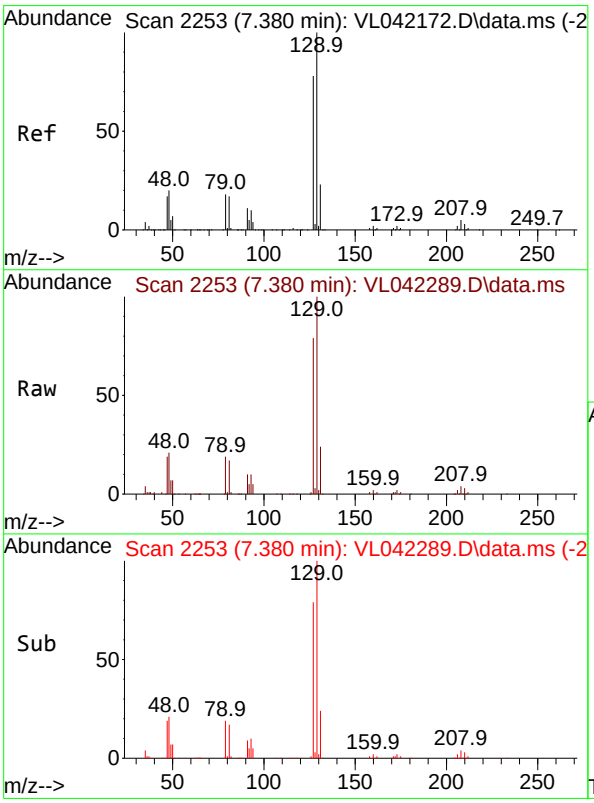
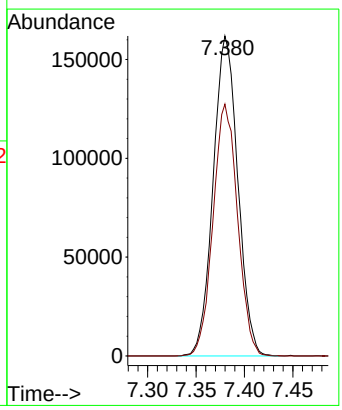
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

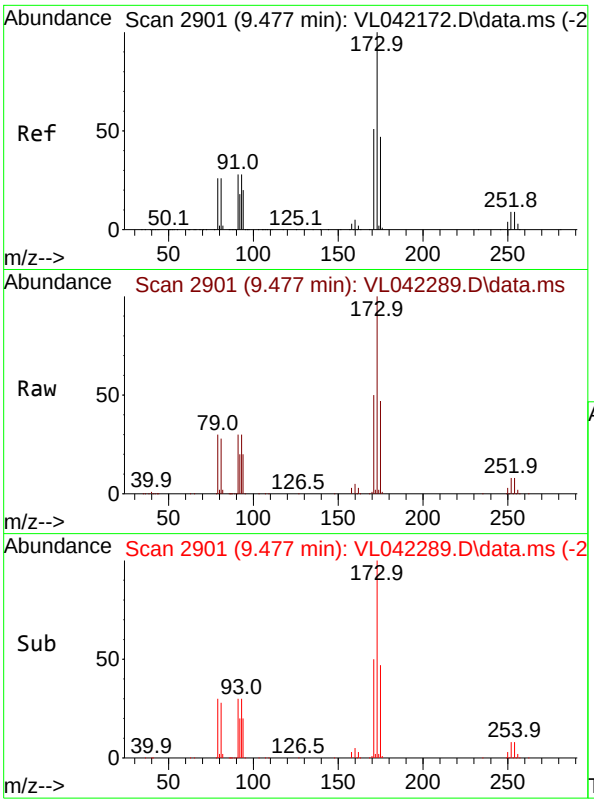



#48
Dibromochloromethane
Concen: 10.516 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:129 Resp: 286938

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.2 | 39.1 | 117.2 |

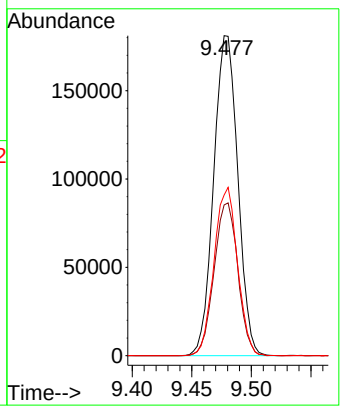





#49
Bromoform
Concen: 10.386 ppbv
RT: 9.477 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:173 Resp: 25443

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 47.2 | 38.6 | 57.8 |
| 171 | 51.2 | 41.8 | 62.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

**Manual Integrations**
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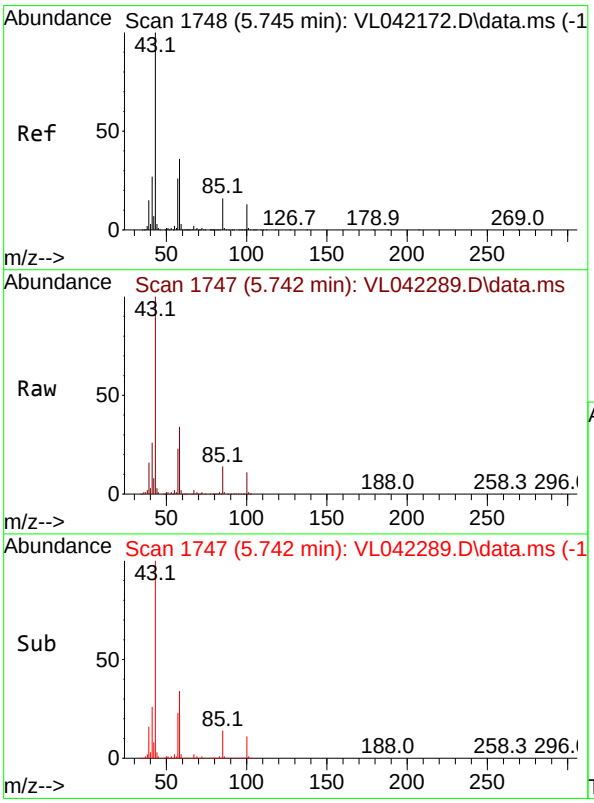
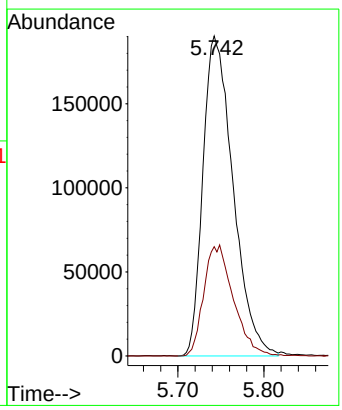
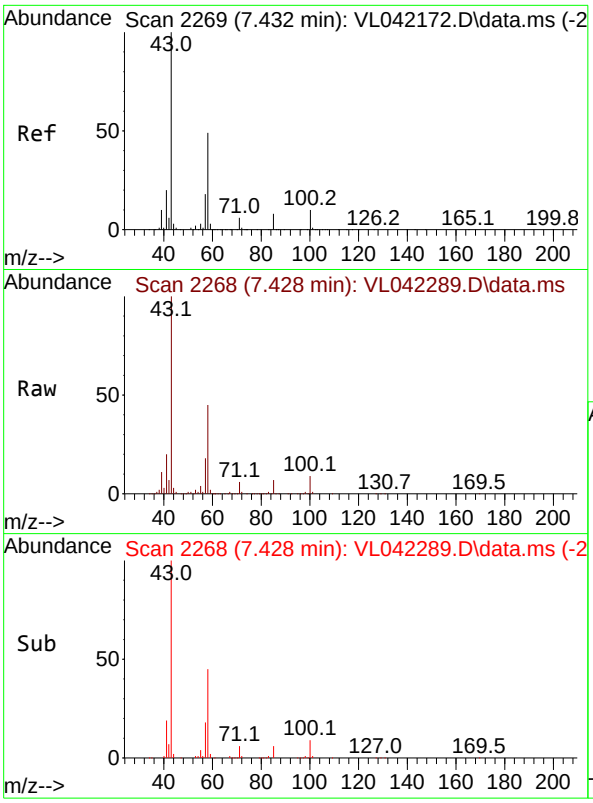



#50
4-Methyl-2-Pentanone
Concen: 9.552 ppbv
RT: 5.742 min Scan# 1747
Delta R.T. -0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 43 Resp: 463069

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 34.2 | 29.0 | 43.6 |






#51
2-Hexanone
Concen: 9.168 ppbv
RT: 7.428 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 43 Resp: 36494

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 46.5 | 39.7 | 59.5 |
| 98 | 0.8 | 0.1 | 0.1 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

**Manual Integrations**
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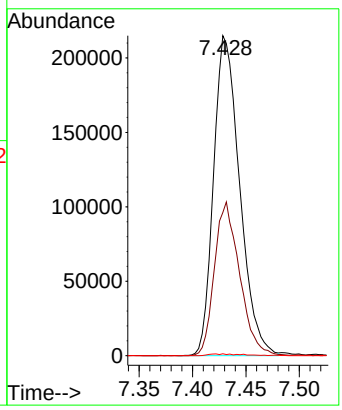
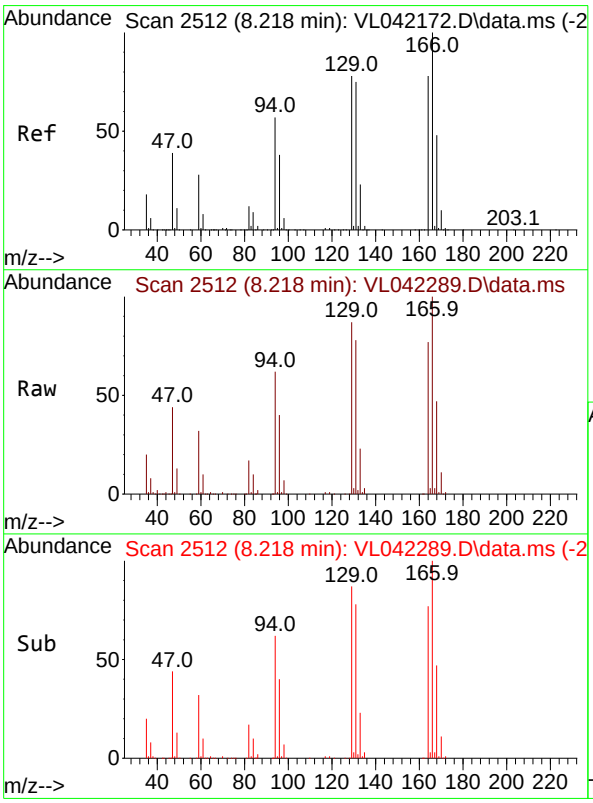
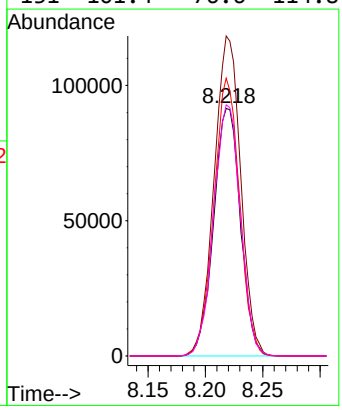


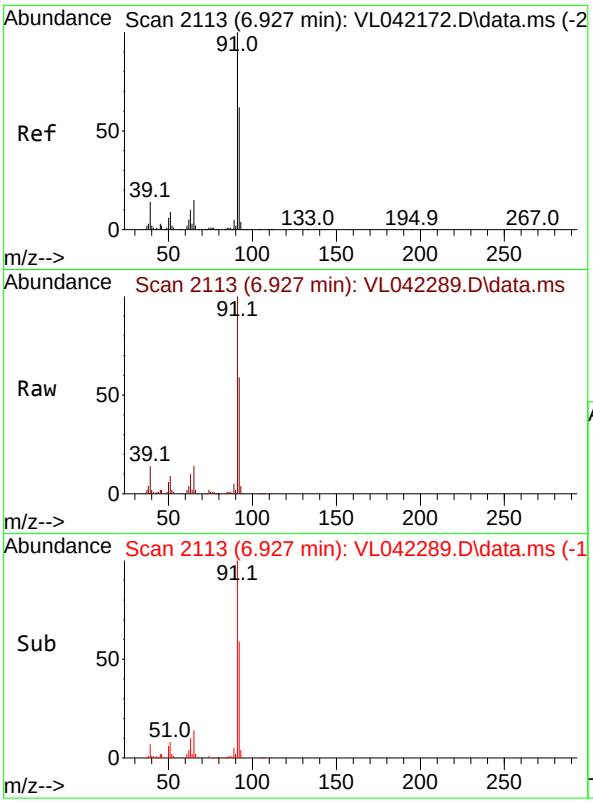




#52
Tetrachloroethene
Concen: 8.946 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:164 Resp: 148369

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 129.3 | 102.5 | 153.7 |
| 129 | 112.2 | 79.8 | 119.8 |
| 131 | 101.4 | 76.6 | 114.8 |

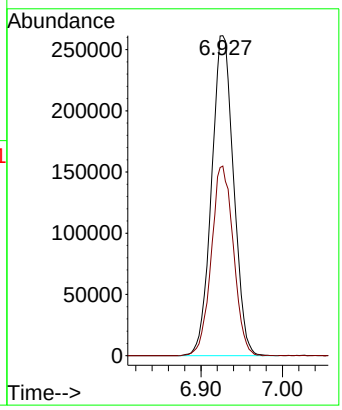





#53
Toluene
Concen: 9.903 ppbv
RT: 6.927 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 91 Resp: 49091

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 59.5 | 48.4 | 72.6 |




**Instrument :**
MSVOA_L
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VL0409ABS02

**Manual Integrations**
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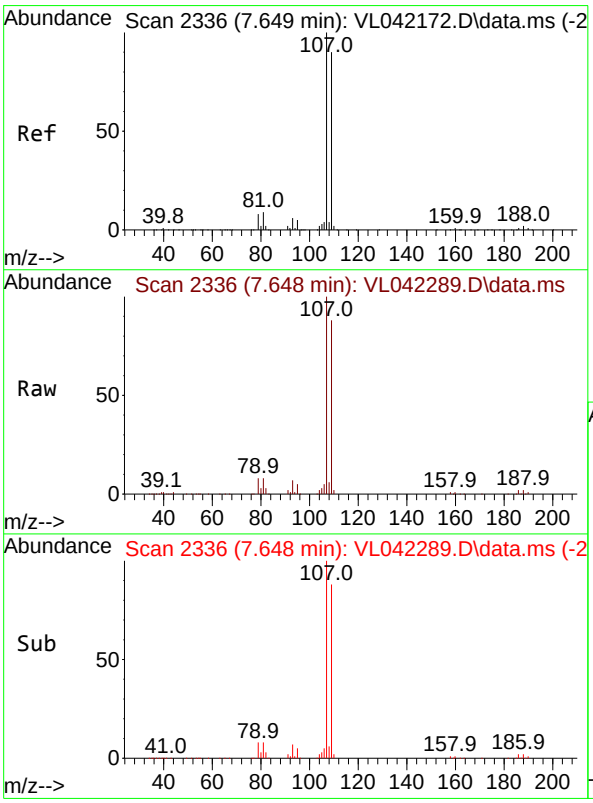
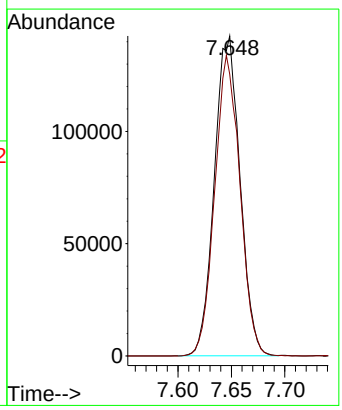
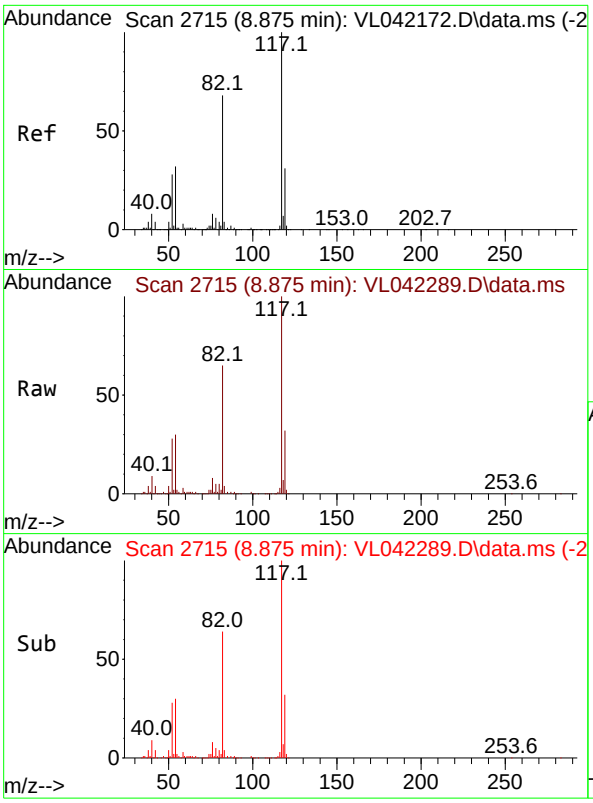



#54
1,2-Dibromoethane
Concen: 10.608 ppbv
RT: 7.648 min Scan# 2336
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:107 Resp: 238091

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 88.1 | 72.2 | 108.4 |

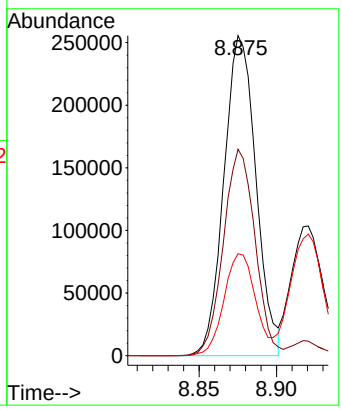





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:117 Resp: 36848

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 67.9 | 55.8 | 83.6 |
| 119 | 31.8 | 25.5 | 38.3 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

**Manual Integrations**
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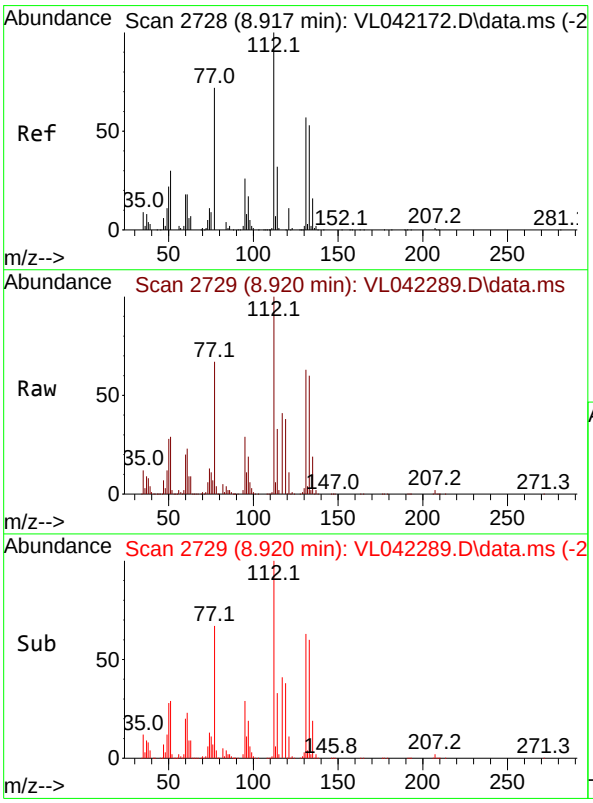
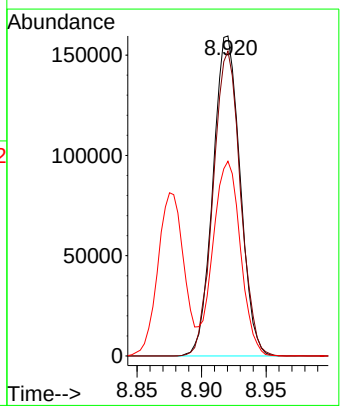
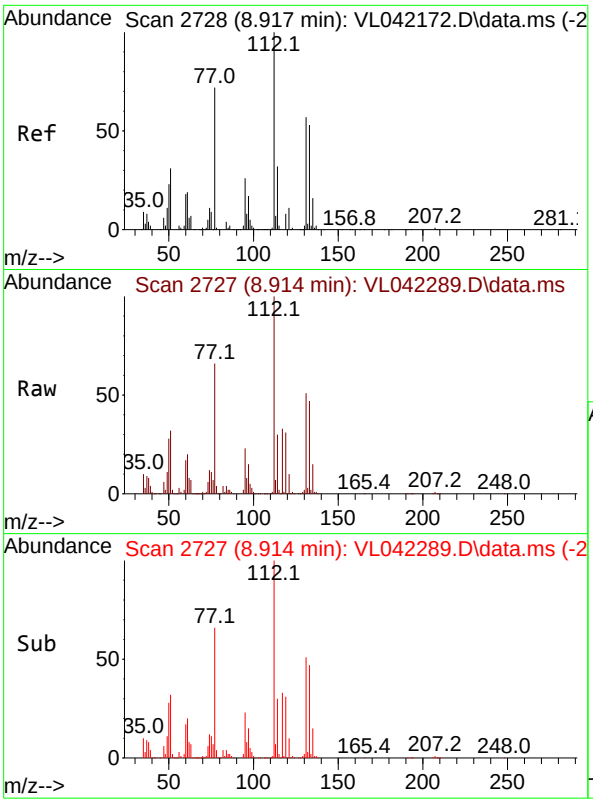



#56
1,1,1,2-Tetrachloroethane
Concen: 11.465 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. 0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:131 Resp: 232553

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.9 | 76.6 | 114.8 |
| 119 | 62.4 | 49.8 | 74.6 |

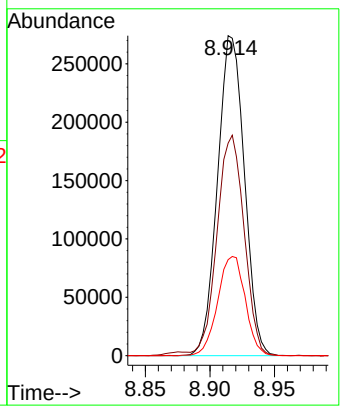





#57
Chlorobenzene
Concen: 11.372 ppbv
RT: 8.914 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:112 Resp: 39748

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 66.3 | 58.2 | 87.2 |
| 114 | 30.0 | 29.1 | 35.5 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

**Manual Integrations**
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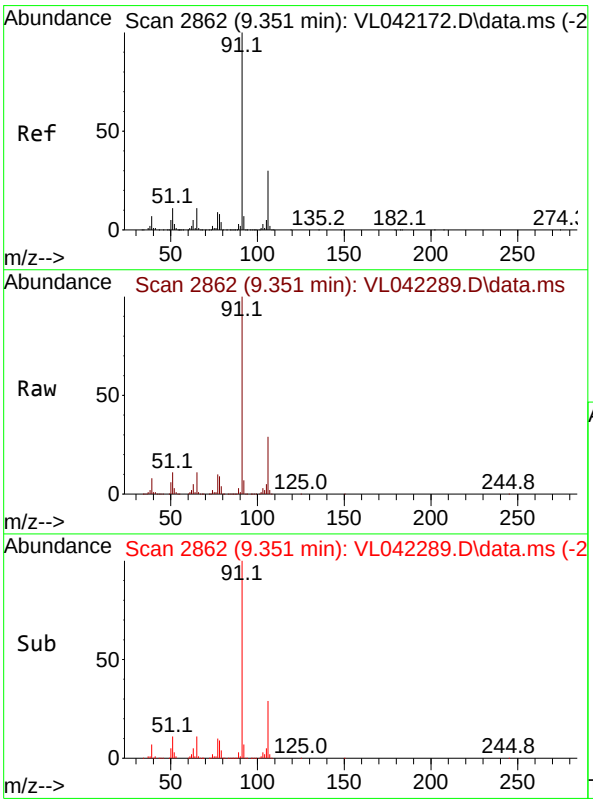
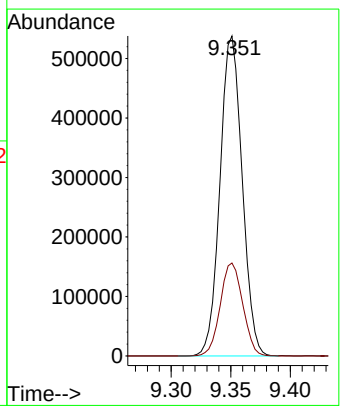
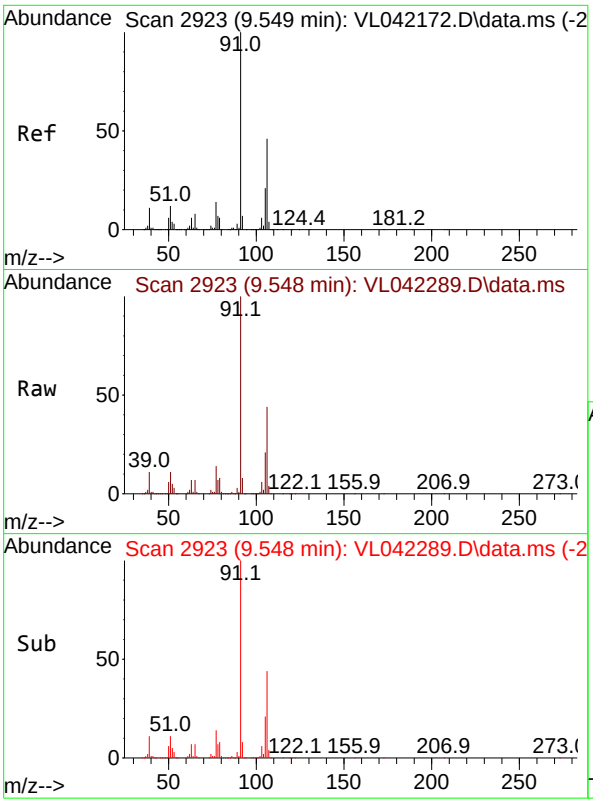



#58
Ethyl Benzene
Concen: 10.619 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 91 Resp: 695035

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.0 | 24.2 | 36.2 |






#59
m/p-Xylene
Concen: 22.239 ppbv m
RT: 9.548 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 91 Resp: 116233

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 46.3 | 36.4 | 54.6 |

**Instrument :**
MSVOA_L
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VL0409ABS02

**Manual Integrations**
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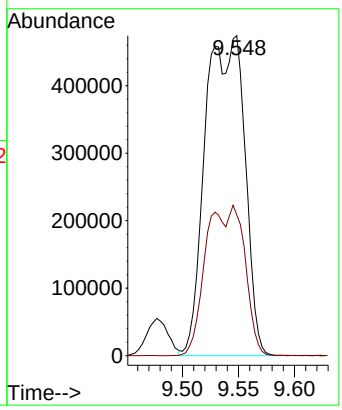
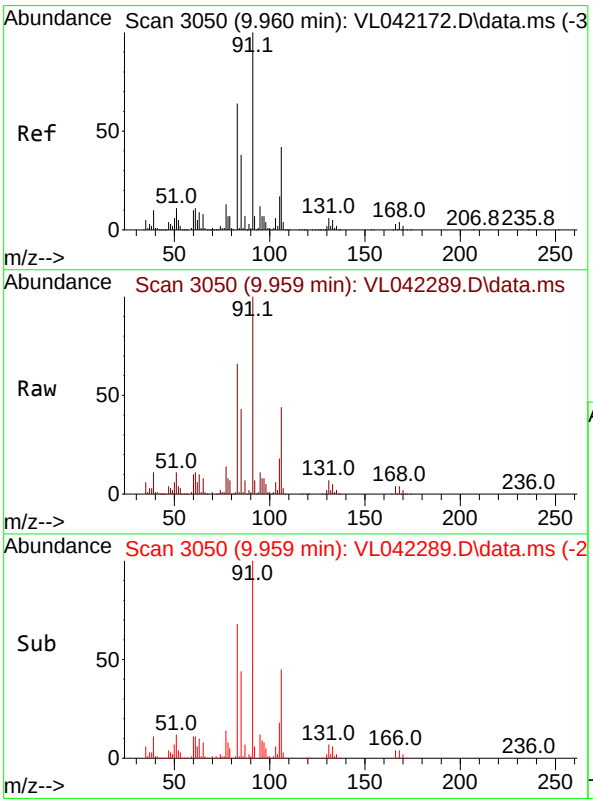
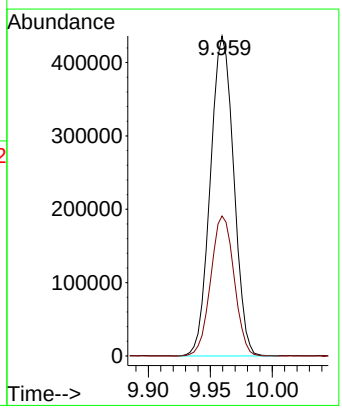


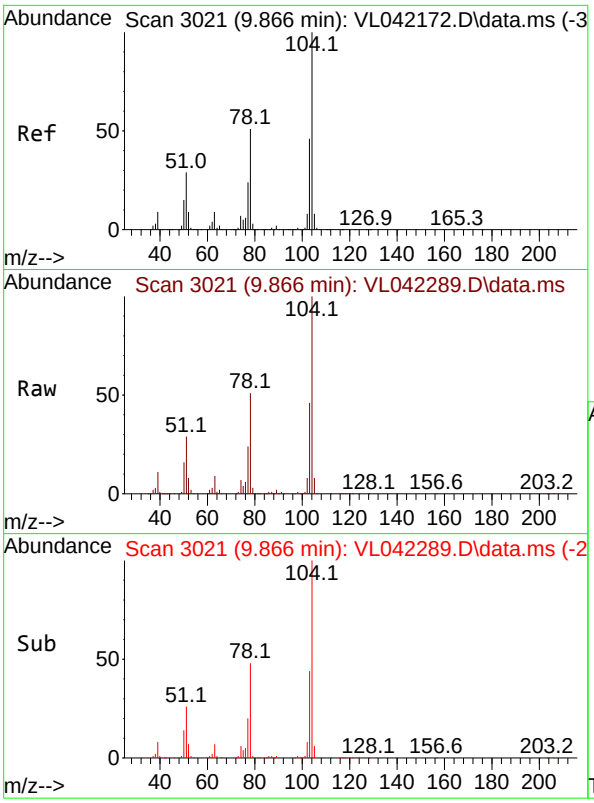




#60
o-Xylene
Concen: 10.960 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 91 Resp: 574256

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 43.7 | 20.8 | 62.5 |






#61
Styrene
Concen: 9.967 ppbv
RT: 9.866 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:104 Resp: 25835

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 51.6 | 41.8 | 62.6 |
| 103 | 45.9 | 37.0 | 55.4 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

**Manual Integrations**
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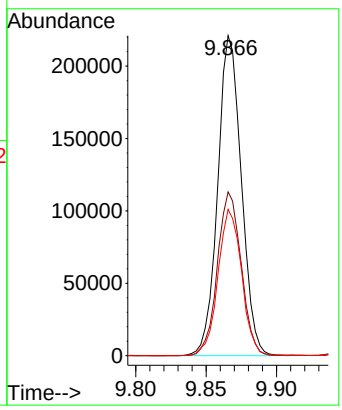
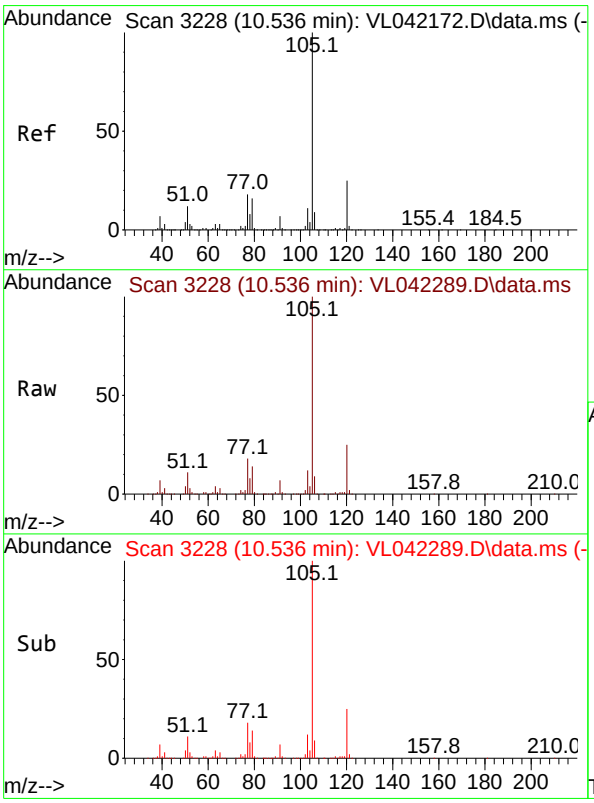
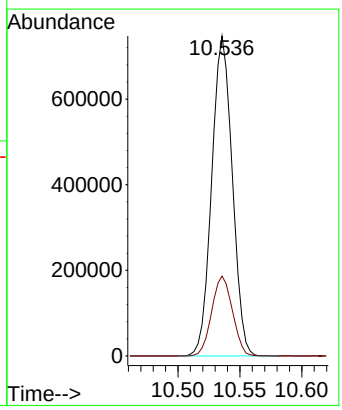


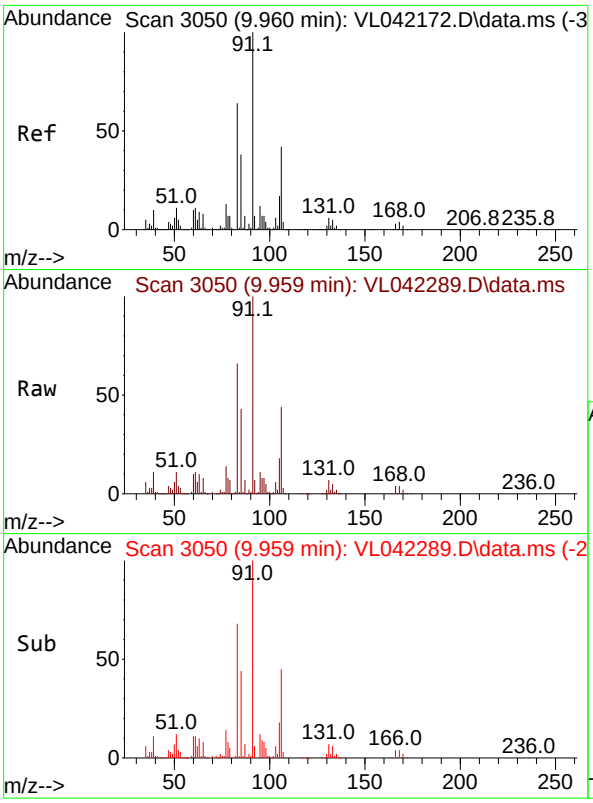




#62
Isopropylbenzene
Concen: 11.032 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:105 Resp: 864354

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.1 | 19.9 | 29.9 |

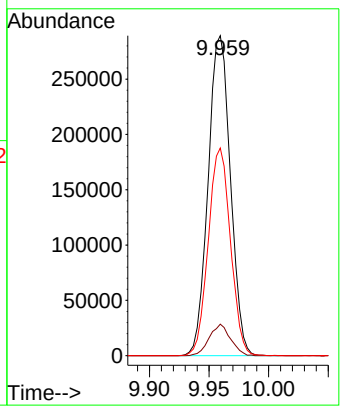





#63
1,1,2,2-Tetrachloroethane
Concen: 11.843 ppbv
RT: 9.959 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 83 Resp: 37700

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.4 | 4.8 | 14.4 |
| 85 | 64.5 | 32.5 | 97.5 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

**Manual Integrations**
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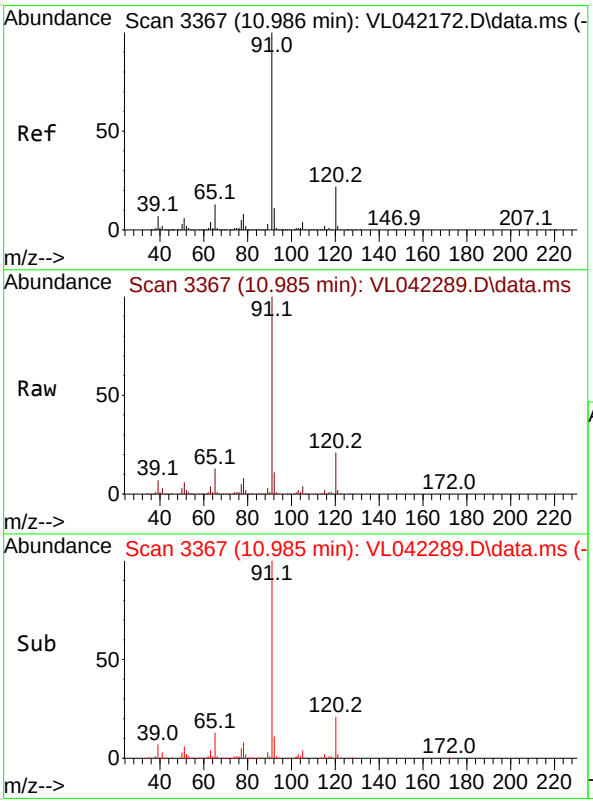
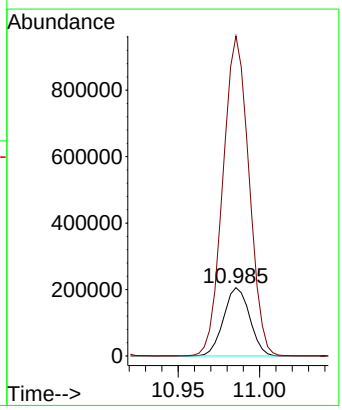
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

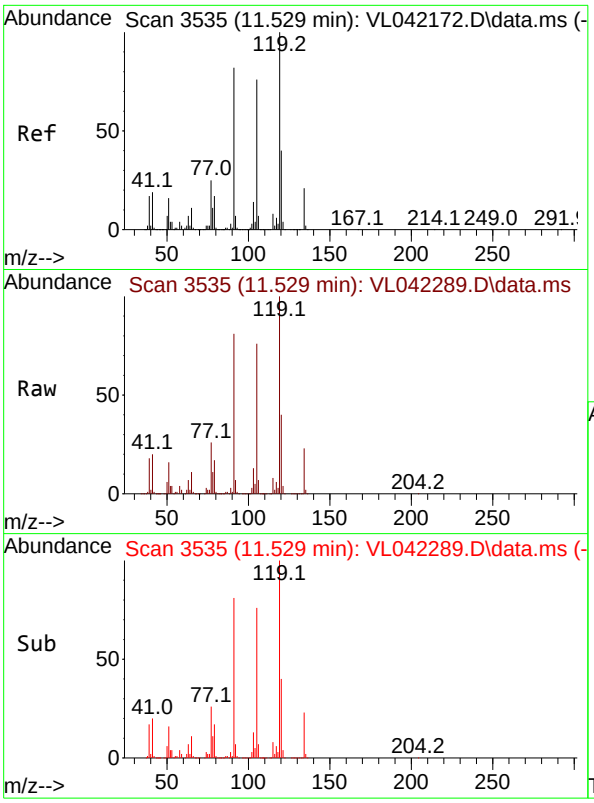



#64
n-propylbenzene
Concen: 11.331 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:120 Resp: 228525

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 468.7 | 376.9 | 565.3 |






#65
tert-Butylbenzene
Concen: 10.909 ppbv
RT: 11.529 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:119 Resp: 79046

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 81.4 | 66.0 | 99.0 |
| 134 | 21.6 | 16.7 | 25.1 |

**Instrument :**
MSVOA_L
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**Manual Integrations**
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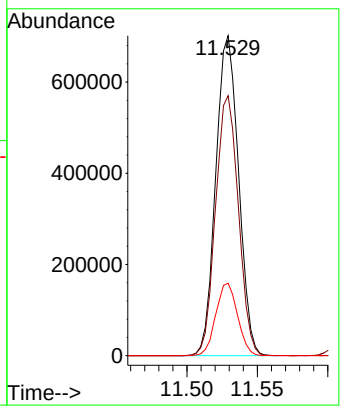
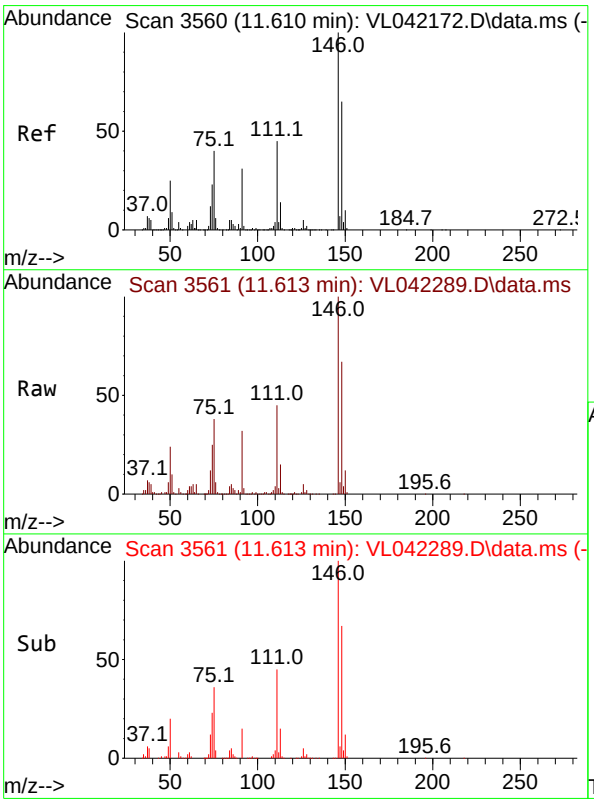
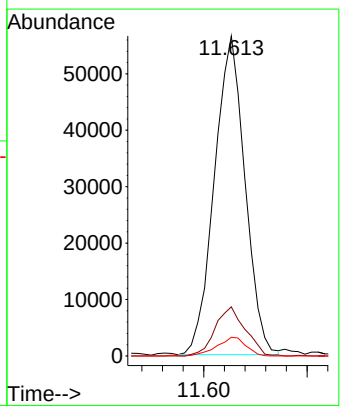


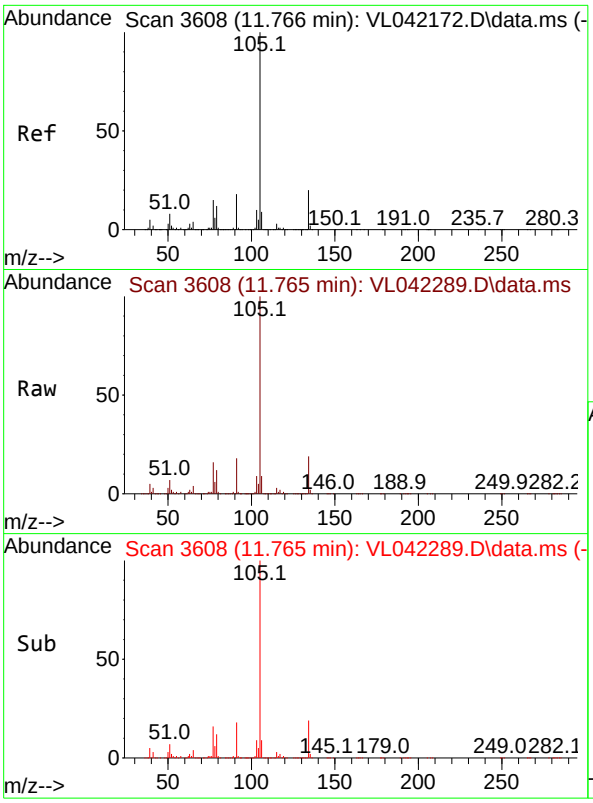




#66
Benzyl Chloride
Concen: 7.561 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. 0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 91 Resp: 58131

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 15.2 | 13.8 | 20.6 |
| 128 | 5.6 | 4.5 | 6.7 |

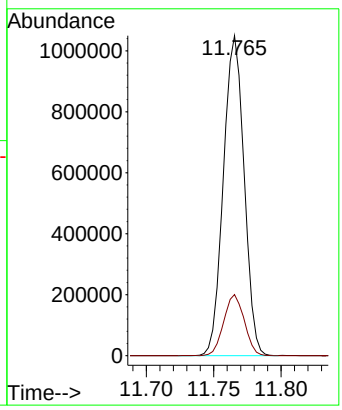





#67
sec-Butylbenzene
Concen: 11.161 ppbv
RT: 11.765 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:105 Resp: 112409

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.0 | 15.5 | 23.3 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

**Manual Integrations**
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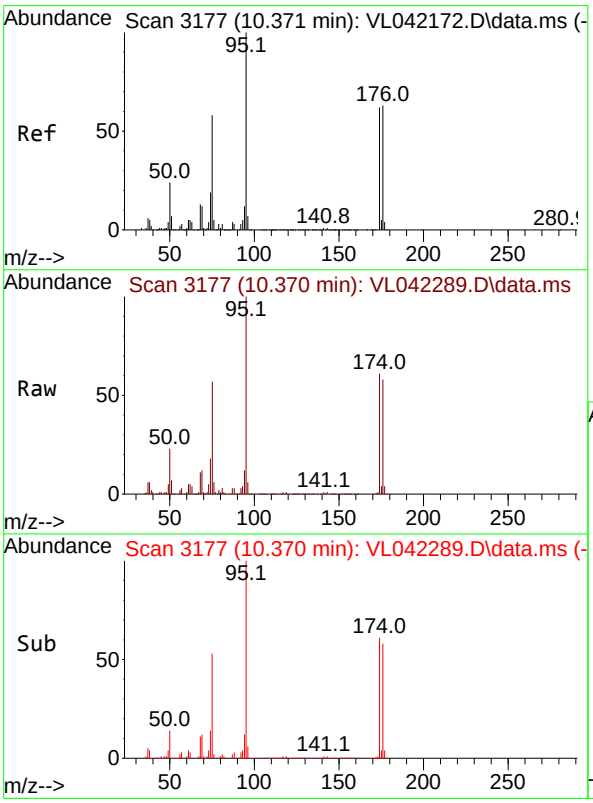
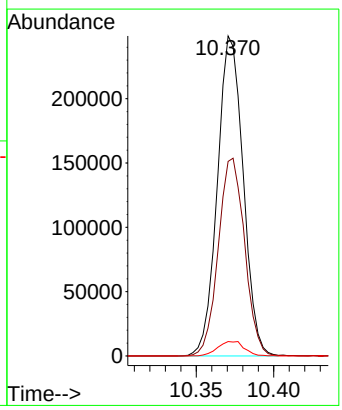
Supervised By :Mahesh Dadoda 04/10/2025

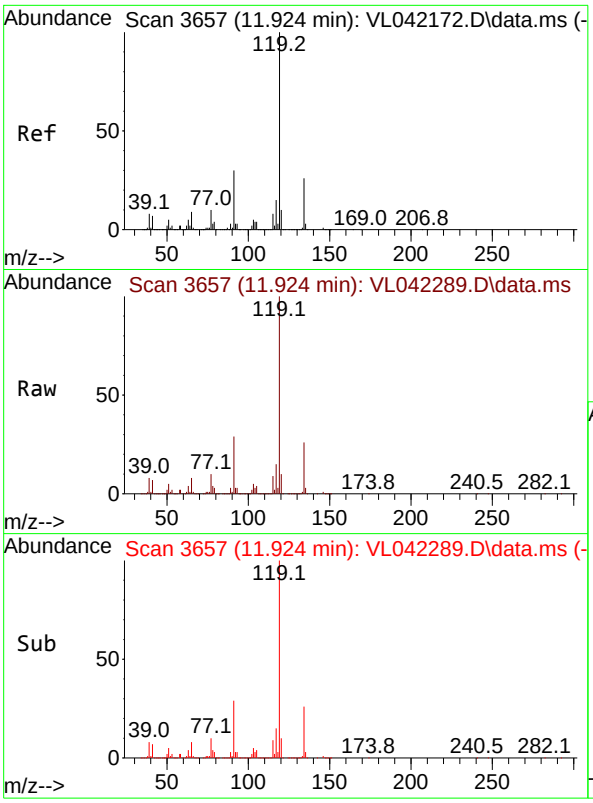



#68
1-Bromo-4-Fluorobenzene
Concen: 9.522 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 95 Resp: 288141

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 63.2 | 50.6 | 76.0 |
| 175 | 4.7 | 3.8 | 5.6 |

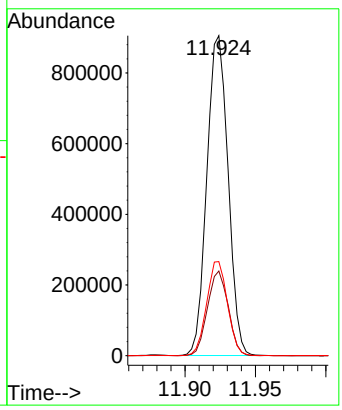





#69
p-Isopropyltoluene
Concen: 10.954 ppbv
RT: 11.924 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:119 Resp: 95002

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.9 | 20.4 | 30.6 |
| 91 | 29.1 | 23.7 | 35.5 |




**Instrument :**
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VL0409ABS02

**Manual Integrations**
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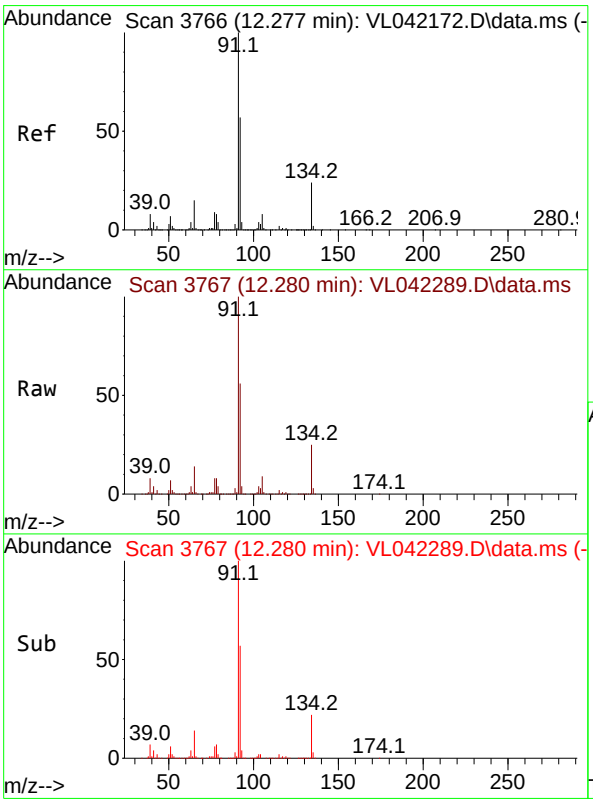
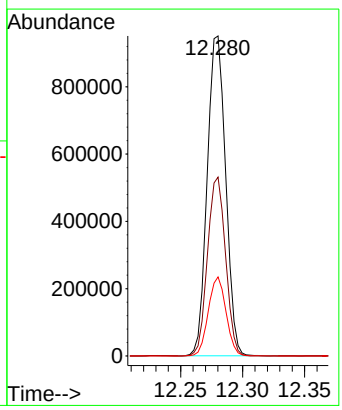
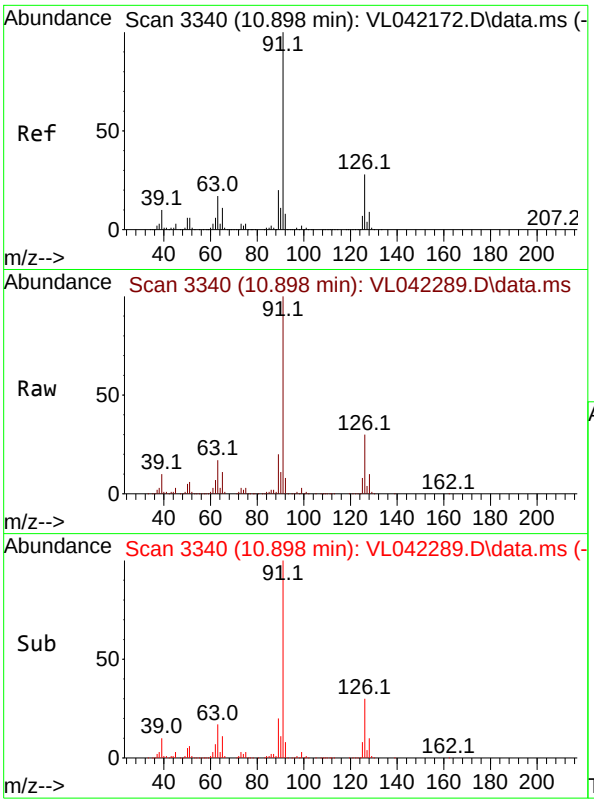



#70
n-Butylbenzene
Concen: 11.124 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 91 Resp: 986632

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 54.9 | 44.9 | 67.3 |
| 134 | 23.8 | 19.2 | 28.8 |

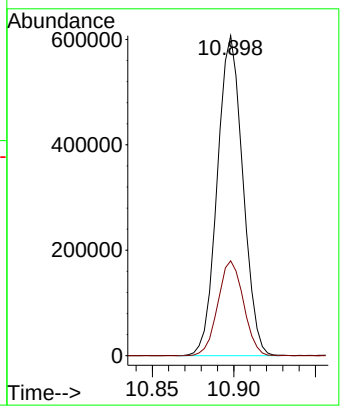





#71
2-Chlorotoluene
Concen: 10.859 ppbv
RT: 10.898 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 91 Resp: 66034

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 29.7 | 11.6 | 46.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

**Manual Integrations**
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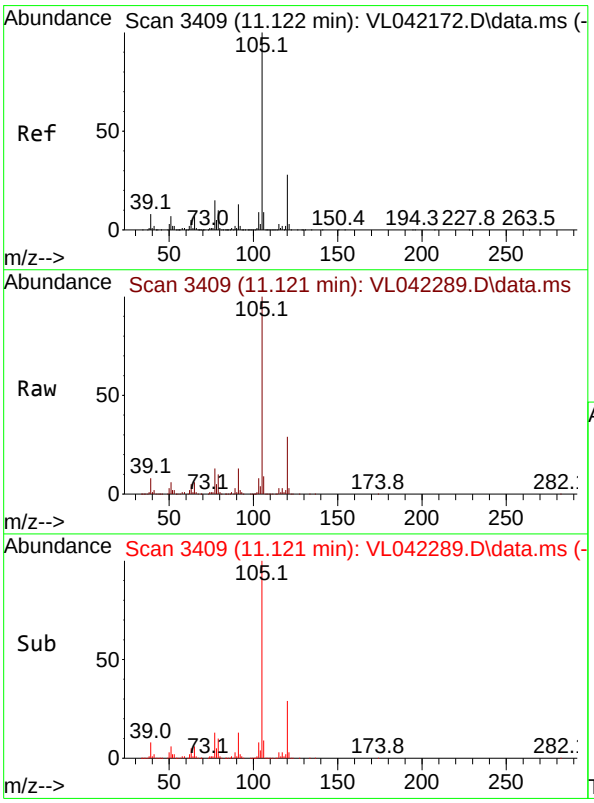
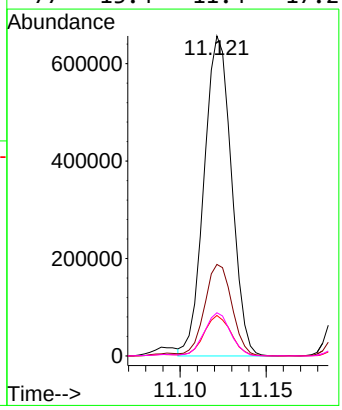
Supervised By :Mahesh Dadoda 04/10/2025

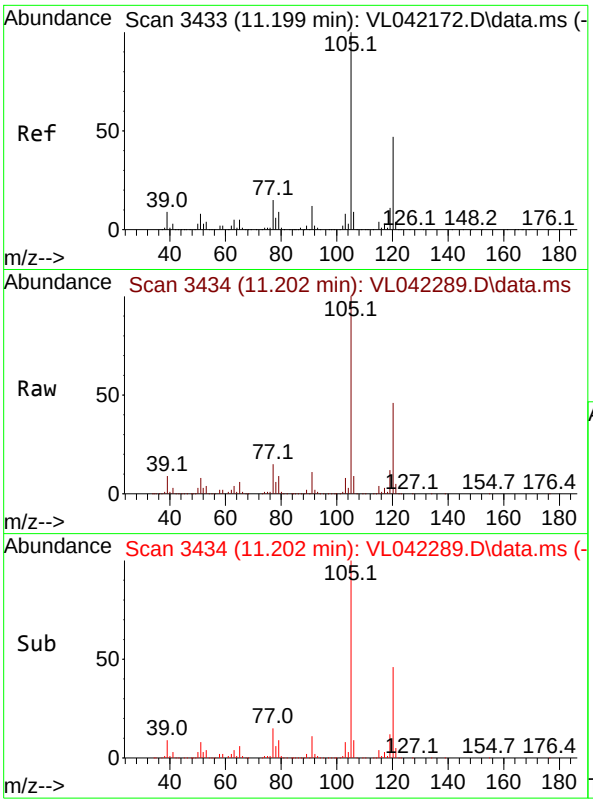



#72
4-Ethyltoluene
Concen: 11.142 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:105 Resp: 726883

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 29.3 | 23.4 | 35.0 |
| 91 | 13.0 | 10.3 | 15.5 |
| 77 | 13.4 | 11.4 | 17.2 |

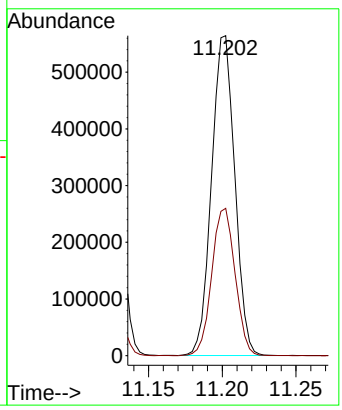





#73
1,3,5-Trimethylbenzene
Concen: 10.851 ppbv
RT: 11.202 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:105 Resp: 618219

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.0 | 37.4 | 56.0 |




**Instrument :**
MSVOA_L
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VL0409ABS02

**Manual Integrations**
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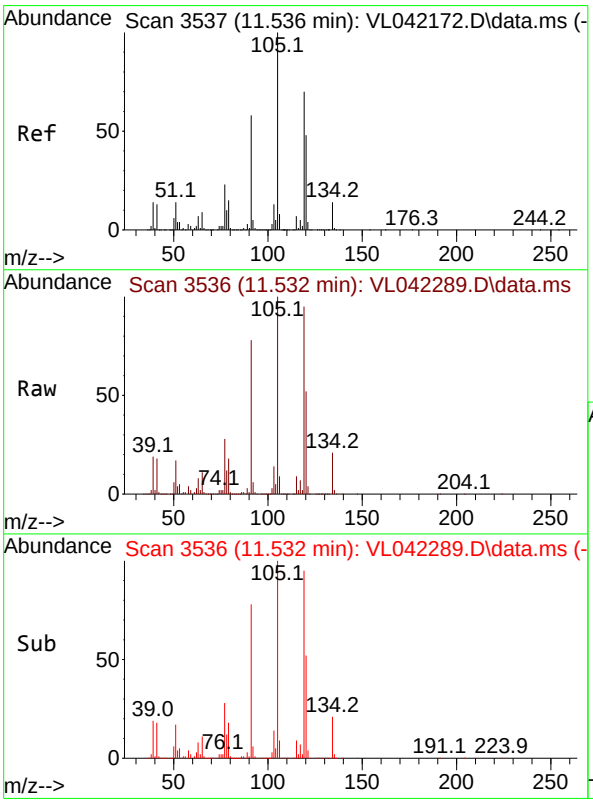
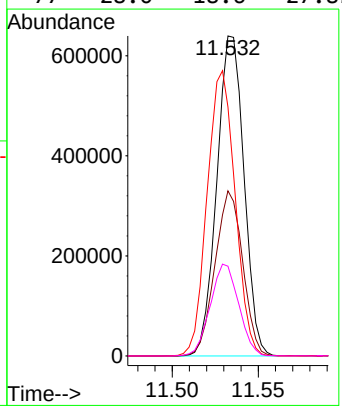
Supervised By :Mahesh Dadoda 04/10/2025

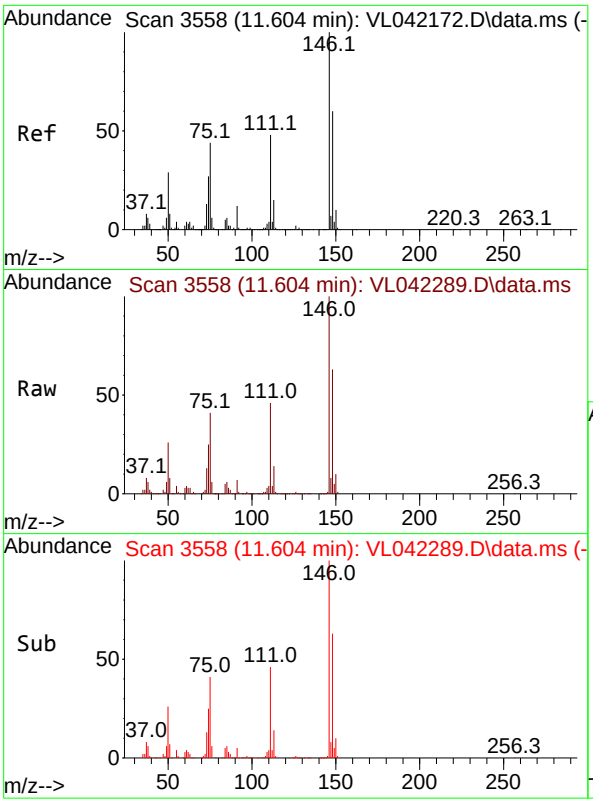



#74
1,2,4-Trimethylbenzene
Concen: 10.699 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:105 Resp: 702287

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 51.6 | 38.6 | 58.0 |
| 91 | 77.8 | 46.2 | 69.2# |
| 77 | 28.0 | 18.6 | 27.8# |

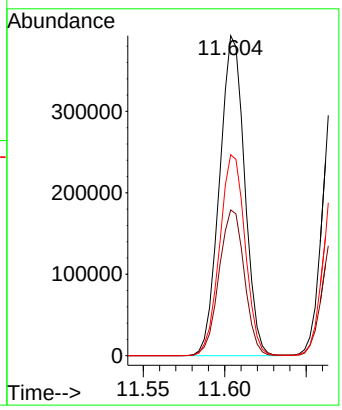





#75
1,3-Dichlorobenzene
Concen: 11.644 ppbv
RT: 11.604 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:146 Resp: 41916

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 46.1 | 23.8 | 71.2 |
| 148 | 64.0 | 31.9 | 95.9 |

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MSVOA_L
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VL0409ABS02

**Manual Integrations**
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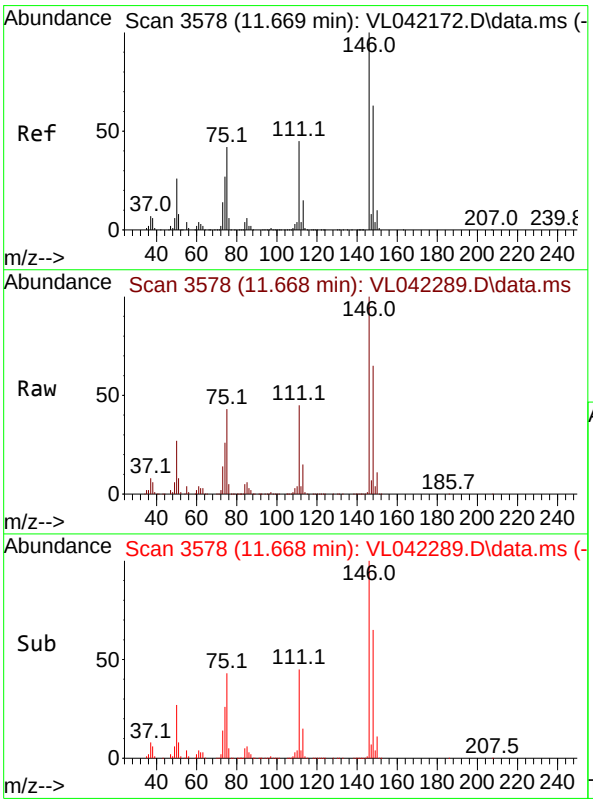
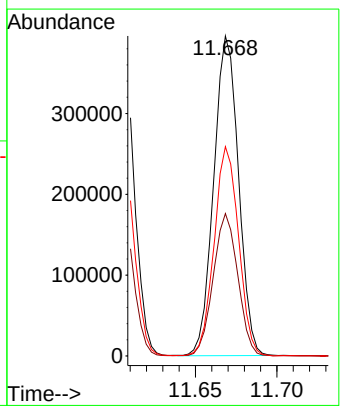
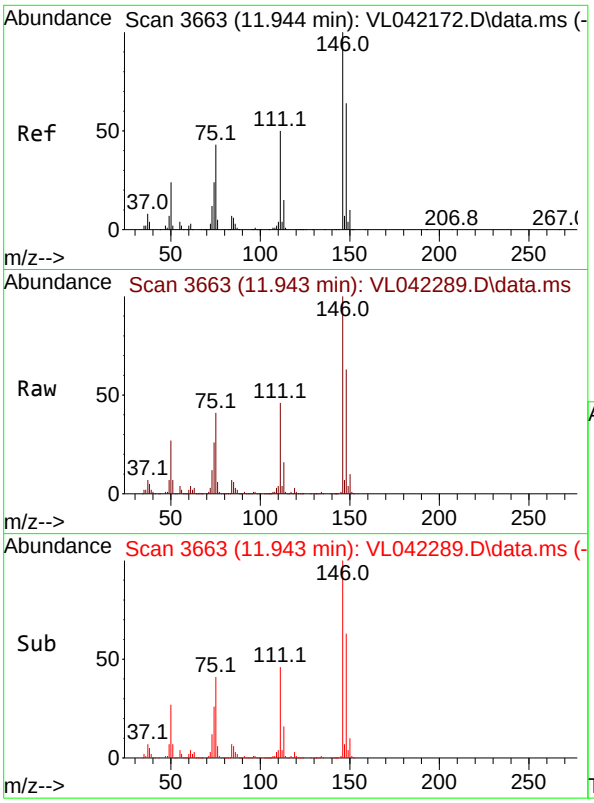



#76
1,4-Dichlorobenzene
Concen: 11.660 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:146 Resp: 417746

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 44.3 | 23.0 | 69.0 |
| 148 | 64.7 | 31.9 | 95.7 |

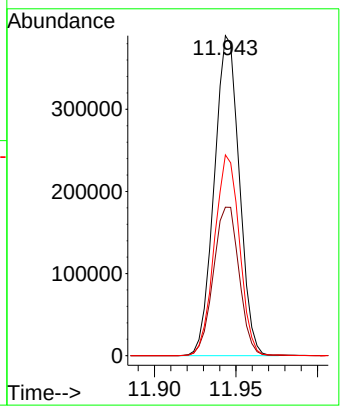





#77
1,2-Dichlorobenzene
Concen: 11.862 ppbv
RT: 11.943 min Scan# 3(
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:146 Resp: 41578(

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 47.9 | 24.8 | 74.3 |
| 148 | 62.8 | 31.6 | 94.8 |

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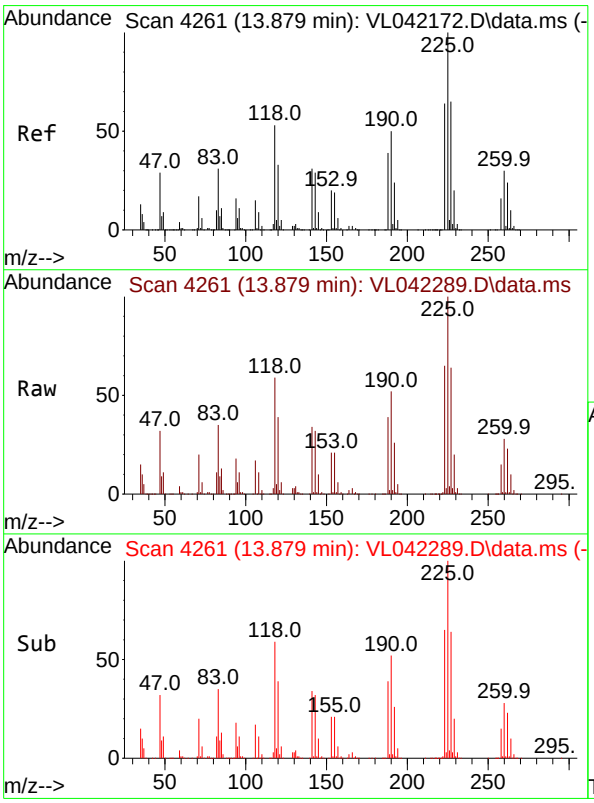
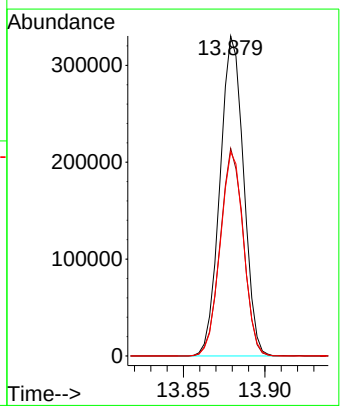
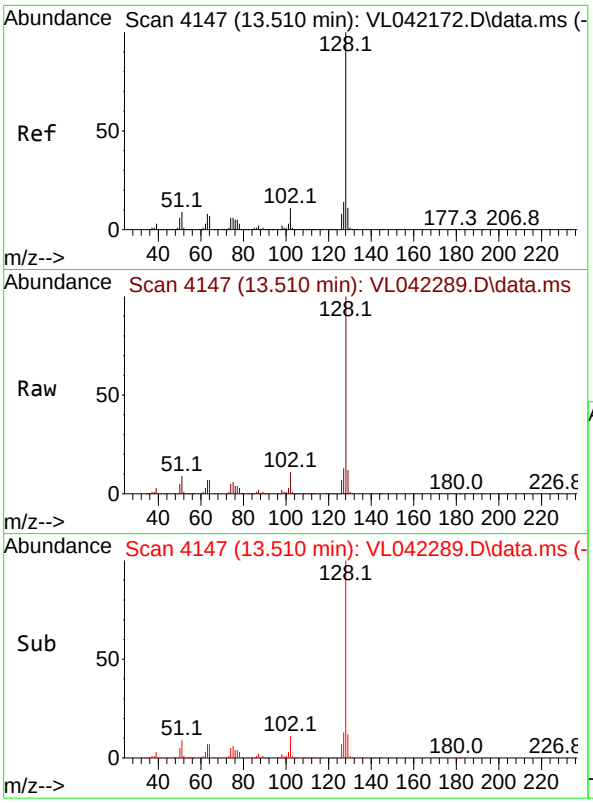



#78
Hexachloro-1,3-Butadiene
Concen: 9.302 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:225 Resp: 331886

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.6 | 50.6 | 76.0 |
| 227 | 63.3 | 51.2 | 76.8 |

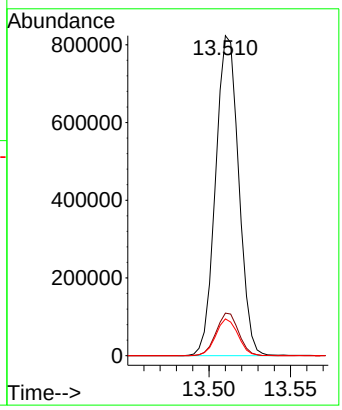





#79
Naphthalene
Concen: 11.288 ppbv
RT: 13.510 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:128 Resp: 81044

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.3 | 10.8 | 16.2 |
| 129 | 11.5 | 9.0 | 13.4 |




**Instrument :**
MSVOA_L
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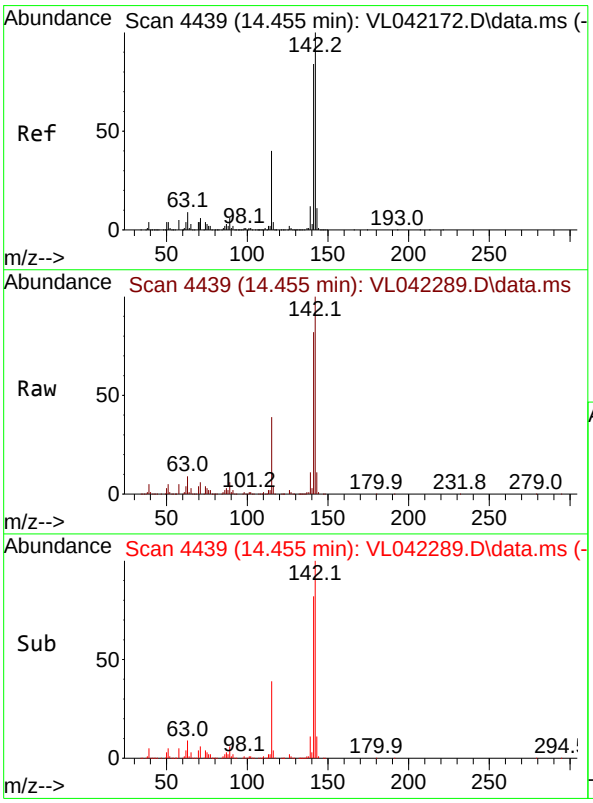
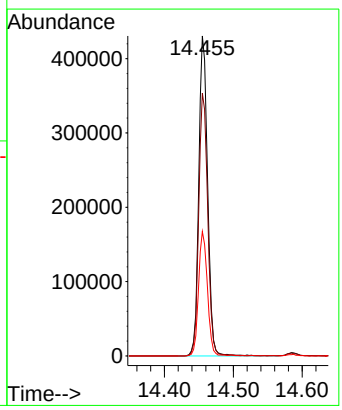
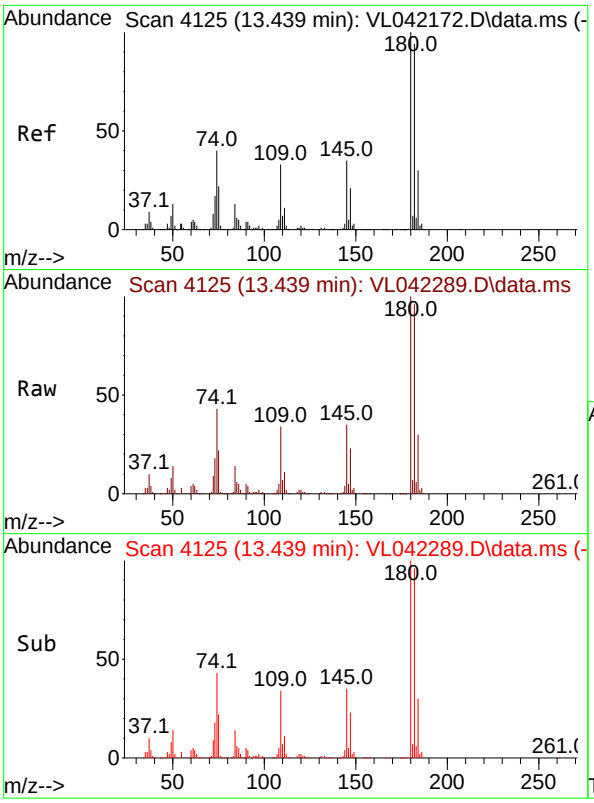



#80
Naphthalene,2-methyl-
Concen: 11.023 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:142 Resp: 388095

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 83.6 | 66.3 | 99.5 |
| 115 | 39.2 | 31.6 | 47.4 |

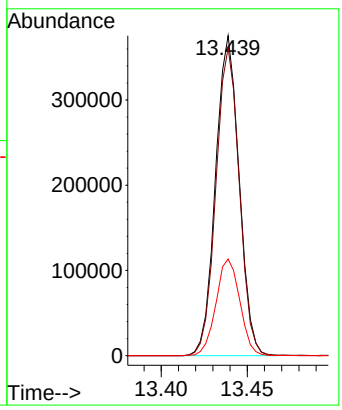





#81
1,2,4-Trichlorobenzene
Concen: 10.802 ppbv
RT: 13.439 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:180 Resp: 35771

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.3 | 75.1 | 112.7 |
| 184 | 30.6 | 24.4 | 36.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | |
| Client Sample ID: | VL0411ABS01 | SDG No.: | Q1665 |
| Lab Sample ID: | VL0411ABS01 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042314.D | 1 | | 04/11/25 11:23 | VL041125 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 9.90 | 49.0 | | 1.04 | 2.47 | ug/m3 |
| 64-17-5 | Ethanol | 4.20 | 7.91 | | 0.60 | 0.94 | ug/m3 |
| 74-87-3 | Chloromethane | 10.2 | 21.1 | | 0.21 | 1.03 | ug/m3 |
| 75-01-4 | Vinyl Chloride | 8.70 | 22.2 | | 0.030 | 0.080 | ug/m3 |
| 74-83-9 | Bromomethane | 8.90 | 34.6 | | 0.54 | 1.94 | ug/m3 |
| 75-00-3 | Chloroethane | 9.30 | 24.5 | | 0.45 | 1.32 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | 10.9 | 32.1 | | 0.38 | 1.47 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | 9.60 | 54.0 | | 0.90 | 2.81 | ug/m3 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 9.10 | 69.8 | | 1.23 | 3.83 | ug/m3 |
| 76-14-2 | Dichlorotetrafluoroethane | 9.80 | 68.5 | | 0.63 | 3.49 | ug/m3 |
| 593-60-2 | Bromoethene | 8.80 | 38.5 | | 0.52 | 2.19 | ug/m3 |
| 75-65-0 | tert-Butyl alcohol | 7.80 | 23.6 | | 0.58 | 1.52 | ug/m3 |
| 142-82-5 | Heptane | 9.90 | 40.6 | | 0.45 | 2.05 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | 8.40 | 20.6 | | 0.17 | 1.23 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethene | 8.40 | 33.3 | | 0.56 | 1.98 | ug/m3 |
| 67-64-1 | Acetone | 9.20 | 21.9 | | 0.57 | 1.19 | ug/m3 |
| 75-15-0 | Carbon Disulfide | 8.80 | 27.4 | | 0.50 | 1.56 | ug/m3 |
| 1634-04-4 | Methyl tert-Butyl Ether | 7.90 | 28.5 | | 0.43 | 1.80 | ug/m3 |
| 75-09-2 | Methylene Chloride | 8.10 | 28.1 | | 0.66 | 1.74 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethene | 8.70 | 34.5 | | 0.75 | 1.98 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | 9.80 | 39.7 | | 0.53 | 2.02 | ug/m3 |
| 110-82-7 | Cyclohexane | 9.00 | 31.0 | | 0.76 | 1.72 | ug/m3 |
| 78-93-3 | 2-Butanone | 11.3 | 33.3 | | 0.35 | 1.47 | ug/m3 |
| 56-23-5 | Carbon Tetrachloride | 11.2 | 70.5 | | 0.060 | 0.19 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethene | 9.20 | 36.5 | | 0.36 | 1.98 | ug/m3 |
| 67-66-3 | Chloroform | 10.5 | 51.3 | | 0.39 | 2.44 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | 8.80 | 48.0 | | 0.050 | 0.16 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | 11.4 | 53.3 | | 0.47 | 2.34 | ug/m3 |
| 71-43-2 | Benzene | 11.1 | 35.5 | | 0.29 | 1.60 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | 11.5 | 46.5 | | 0.36 | 2.02 | ug/m3 |
| 79-01-6 | Trichloroethene | 10.6 | 57.0 | | 0.11 | 0.16 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | 11.2 | 51.8 | | 0.51 | 2.31 | ug/m3 |
| 75-27-4 | Bromodichloromethane | 11.7 | 78.4 | | 0.54 | 3.35 | ug/m3 |
| 108-10-1 | 4-Methyl-2-Pentanone | 10.1 | 41.4 | | 0.37 | 2.05 | ug/m3 |
| 108-88-3 | Toluene | 10.1 | 38.1 | | 0.41 | 1.88 | ug/m3 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | |
| Client Sample ID: | VL0411ABS01 | SDG No.: | Q1665 |
| Lab Sample ID: | VL0411ABS01 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042314.D | 1 | | 04/11/25 11:23 | VL041125 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 8.30 | 37.7 | | 0.27 | 2.27 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | 9.20 | 41.8 | | 0.27 | 2.27 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | 11.7 | 63.8 | | 0.38 | 2.73 | ug/m3 |
| 124-48-1 | Dibromochloromethane | 11.2 | 95.4 | | 0.60 | 4.26 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane | 11.2 | 86.1 | | 0.54 | 0.77 | ug/m3 |
| 127-18-4 | Tetrachloroethene | 9.50 | 64.4 | | 0.14 | 0.20 | ug/m3 |
| 108-90-7 | Chlorobenzene | 12.5 | 57.6 | | 0.37 | 2.30 | ug/m3 |
| 100-41-4 | Ethyl Benzene | 11.1 | 48.2 | | 0.52 | 2.17 | ug/m3 |
| 179601-23-1 | m/p-Xylene | 24.2 | 105 | | 0.91 | 4.34 | ug/m3 |
| 95-47-6 | o-Xylene | 11.9 | 51.7 | | 0.52 | 2.17 | ug/m3 |
| 100-42-5 | Styrene | 10.5 | 44.7 | | 0.47 | 2.13 | ug/m3 |
| 75-25-2 | Bromoform | 11.3 | 117 | | 0.62 | 5.17 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 13.2 | 90.7 | | 0.070 | 0.21 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | 11.8 | 61.1 | | 0.57 | 2.59 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 11.9 | 58.5 | | 0.54 | 2.46 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 11.9 | 58.5 | | 0.39 | 2.46 | ug/m3 |
| 541-73-1 | 1,3-Dichlorobenzene | 12.8 | 77.0 | | 0.48 | 3.01 | ug/m3 |
| 106-46-7 | 1,4-Dichlorobenzene | 12.9 | 77.6 | | 0.30 | 3.01 | ug/m3 |
| 95-50-1 | 1,2-Dichlorobenzene | 13.2 | 79.4 | | 0.48 | 3.01 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10.8 | 80.2 | | 0.67 | 3.71 | ug/m3 |
| 87-68-3 | Hexachloro-1,3-Butadiene | 9.80 | 105 | | 0.96 | 5.33 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | 9.10 | 20.1 | | 0.29 | 1.11 | ug/m3 |
| 91-20-3 | Naphthalene | 10.9 | 57.1 | | 0.42 | 0.52 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | 12.1 | 59.5 | | 0.59 | 2.46 | ug/m3 |
| 110-54-3 | Hexane | 10.0 | 35.2 | | 0.39 | 1.76 | ug/m3 |
| 107-05-1 | Allyl Chloride | 8.90 | 27.9 | | 0.47 | 1.57 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | 9.40 | 33.9 | | 0.76 | 1.80 | ug/m3 |
| 80-62-6 | Methyl Methacrylate | 9.50 | 38.9 | | 0.37 | 2.05 | ug/m3 |
| **SURROGATES** | | | | | | | |
| 460-00-4 | 1-Bromo-4-Fluorobenzene | 9.90 | | | 70 (65) - 130 (135) | 99% | SPK: 10 |
| **INTERNAL STANDARDS** | | | | | | | |
| 74-97-5 | Bromochloromethane | 178000 | | 2.784 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 444000 | | 3.955 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 386000 | | 8.878 | | | |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | |
| Client Sample ID: | VL0411ABS01 | SDG No.: | Q1665 |
| Lab Sample ID: | VL0411ABS01 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042314.D | 1 | | 04/11/25 11:23 | VL041125 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042314.D
Acq On : 11 Apr 2025 11:23
Operator : SY/MD
Sample : VL0411ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 11 22:57:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.784 | 49 | 178456 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.955 | 114 | 444353 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.878 | 117 | 386060 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.374 | 95 | 314180 | 9.910 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 99.100% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.496 | 85 | 260154 | 9.873 | ppbv | 99 |
| 3) Chlorodifluoromethane | 1.473 | 51 | 278310 | 10.339 | ppbv | 99 |
| 4) Chloromethane | 1.531 | 50 | 109906 | 10.207 | ppbv | 97 |
| 5) Vinyl Chloride | 1.577 | 62 | 99540 | 8.723 | ppbv | 96 |
| 6) Bromomethane | 1.667 | 94 | 43354 | 8.884 | ppbv | 99 |
| 7) Chloroethane | 1.703 | 64 | 40372 | 9.340 | ppbv | 100 |
| 8) Dichlorotetrafluoroethane | 1.551 | 85 | 219210 | 9.769 | ppbv | 94 |
| 9) Propene | 1.483 | 41 | 109077 | 8.841 | ppbv | 98 |
| 10) Heptane | 4.975 | 43 | 325268 | 9.912 | ppbv | 98 |
| 11) Trichlorofluoromethane | 1.874 | 101 | 247344 | 9.647 | ppbv | 98 |
| 12) 1,1,2-Trichlorotrifluo... | 2.136 | 101 | 191456 | 9.085 | ppbv | 97 |
| 13) Ethanol | 1.719 | 45 | 4928 | 4.225 | ppbv | 95 |
| 14) Bromoethene | 1.780 | 108 | 70702 | 8.758 | ppbv | 99 |
| 15) Acetone | 1.832 | 43 | 228988 | 9.175 | ppbv | 95 |
| 16) 1,3-Butadiene | 1.606 | 39 | 110429 | 9.060 | ppbv | 97 |
| 17) tert-Butyl alcohol | 2.039 | 59 | 243034 | 7.818 | ppbv | 100 |
| 18) 1,1-Dichloroethene | 2.030 | 96 | 83233 | 8.449 | ppbv | 97 |
| 19) Isopropyl Alcohol | 1.884 | 45 | 118345 | 8.404 | ppbv # | 34 |
| 20) Methylene Chloride | 2.059 | 84 | 75264 | 8.097 | ppbv | 93 |
| 21) Allyl Chloride | 2.094 | 41 | 157261 | 8.934 | ppbv | 98 |
| 22) trans-1,2-Dichloroethene | 2.337 | 96 | 98769 | 8.674 | ppbv | 96 |
| 23) Vinyl Acetate | 2.460 | 43 | 86563 | 8.014 | ppbv | 98 |
| 24) 1,1-Dichloroethane | 2.405 | 63 | 206840 | 9.800 | ppbv | 99 |
| 25) Ethyl Acetate | 2.836 | 43 | 656719 | 10.138 | ppbv | 99 |
| 26) Hexane | 2.823 | 57 | 249860 | 9.986 | ppbv | 98 |
| 27) Carbon Disulfide | 2.146 | 76 | 236998 | 8.833 | ppbv | 99 |
| 28) Methyl tert-Butyl Ether | 2.438 | 73 | 122818 | 7.884 | ppbv | 97 |
| 29) Chloroform | 2.845 | 83 | 384713 | 10.506 | ppbv | 100 |
| 30) Cyclohexane | 3.852 | 84 | 196133 | 9.028 | ppbv | 97 |
| 31) cis-1,2-Dichloroethene | 2.719 | 61 | 233371 | 9.187 | ppbv | 97 |
| 32) 1,1,1-Trichloroethane | 3.363 | 97 | 370405 | 8.836 | ppbv | 98 |
| 34) 2-Butanone | 2.554 | 43 | 362633 | 11.254 | ppbv | 98 |
| 35) Carbon Tetrachloride | 3.758 | 117 | 389738 | 11.228 | ppbv | 99 |
| 36) Benzene | 3.654 | 78 | 490339 | 11.131 | ppbv | 96 |
| 37) 1,2-Dichloroethane | 3.214 | 62 | 290983 | 11.538 | ppbv | 100 |
| 38) Trichloroethene | 4.545 | 130 | 195654 | 10.645 | ppbv | 99 |
| 39) 1,2-Dichloropropane | 4.312 | 63 | 179954 | 11.217 | ppbv | 91 |
| 40) 1,4-Dioxane | 4.580 | 88 | 80106 | 9.408 | ppbv # | 83 |
| 41) Tetrahydrofuran | 3.052 | 42 | 202793 | 10.930 | ppbv | 94 |
| 42) Bromodichloromethane | 4.486 | 83 | 405729 | 11.669 | ppbv | 97 |
| 43) Methyl Methacrylate | 4.875 | 69 | 177423 | 9.514 | ppbv | 98 |
| 44) 2,2,4-Trimethylpentane | 4.635 | 57 | 850971 | 11.431 | ppbv | 97 |
| 45) t-1,3-Dichloropropene | 6.412 | 75 | 166246 | 8.309 | ppbv | 93 |

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042314.D
Acq On : 11 Apr 2025 11:23
Operator : SY/MD
Sample : VL0411ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 11 22:57:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.596 | 75 | 225952 | 9.213 | ppbv | | 99 |
| 47) 1,1,2-Trichloroethane | 6.580 | 97 | 198762 | 11.720 | ppbv | | 97 |
| 48) Dibromochloromethane | 7.383 | 129 | 321370 | 11.181 | ppbv | | 100 |
| 49) Bromoform | 9.480 | 173 | 291905 | 11.313 | ppbv | | 99 |
| 50) 4-Methyl-2-Pentanone | 5.749 | 43 | 514910 | 10.084 | ppbv | | 95 |
| 51) 2-Hexanone | 7.435 | 43 | 414681 | 9.889 | ppbv | # | 94 |
| 52) Tetrachloroethene | 8.221 | 164 | 165666 | 9.483 | ppbv | | 96 |
| 53) Toluene | 6.933 | 91 | 526341 | 10.079 | ppbv | | 99 |
| 54) 1,2-Dibromoethane | 7.649 | 107 | 264126 | 11.172 | ppbv | | 97 |
| 56) 1,1,1,2-Tetrachloroethane | 8.924 | 131 | 271061 | 12.755 | ppbv | | 97 |
| 57) Chlorobenzene | 8.921 | 112 | 457204 | 12.486 | ppbv | | 96 |
| 58) Ethyl Benzene | 9.354 | 91 | 761549 | 11.105 | ppbv | | 98 |
| 59) m/p-Xylene | 9.548 | 91 | 1323517m | 24.171 | ppbv | | |
| 60) o-Xylene | 9.963 | 91 | 654791 | 11.929 | ppbv | | 96 |
| 61) Styrene | 9.869 | 104 | 284318 | 10.470 | ppbv | | 98 |
| 62) Isopropylbenzene | 10.539 | 105 | 975799 | 11.887 | ppbv | | 98 |
| 63) 1,1,2,2-Tetrachloroethane | 9.963 | 83 | 440972 | 13.222 | ppbv | | 100 |
| 64) n-propylbenzene | 10.989 | 120 | 264518 | 12.518 | ppbv | | 96 |
| 65) tert-Butylbenzene | 11.529 | 119 | 908946 | 11.973 | ppbv | | 99 |
| 66) Benzyl Chloride | 11.617 | 91 | 69548 | 8.634 | ppbv | | 98 |
| 67) sec-Butylbenzene | 11.765 | 105 | 1300090 | 12.320 | ppbv | | 100 |
| 69) p-Isopropyltoluene | 11.924 | 119 | 1095041 | 12.051 | ppbv | | 98 |
| 70) n-Butylbenzene | 12.280 | 91 | 1129853 | 12.159 | ppbv | | 100 |
| 71) 2-Chlorotoluene | 10.901 | 91 | 749737 | 11.768 | ppbv | | 99 |
| 72) 4-Ethyltoluene | 11.125 | 105 | 825037 | 12.071 | ppbv | | 99 |
| 73) 1,3,5-Trimethylbenzene | 11.202 | 105 | 711175 | 11.914 | ppbv | | 99 |
| 74) 1,2,4-Trimethylbenzene | 11.536 | 105 | 816505 | 11.873 | ppbv | | 91 |
| 75) 1,3-Dichlorobenzene | 11.607 | 146 | 484099 | 12.835 | ppbv | | 98 |
| 76) 1,4-Dichlorobenzene | 11.672 | 146 | 485460 | 12.933 | ppbv | | 98 |
| 77) 1,2-Dichlorobenzene | 11.947 | 146 | 485421 | 13.218 | ppbv | | 98 |
| 78) Hexachloro-1,3-Butadiene | 13.882 | 225 | 366850 | 9.814 | ppbv | | 99 |
| 79) Naphthalene | 13.513 | 128 | 820200 | 10.904 | ppbv | | 100 |
| 80) Naphthalene,2-methyl- | 14.455 | 142 | 274227 | 7.434 | ppbv | | 98 |
| 81) 1,2,4-Trichlorobenzene | 13.439 | 180 | 373404 | 10.762 | ppbv | | 99 |

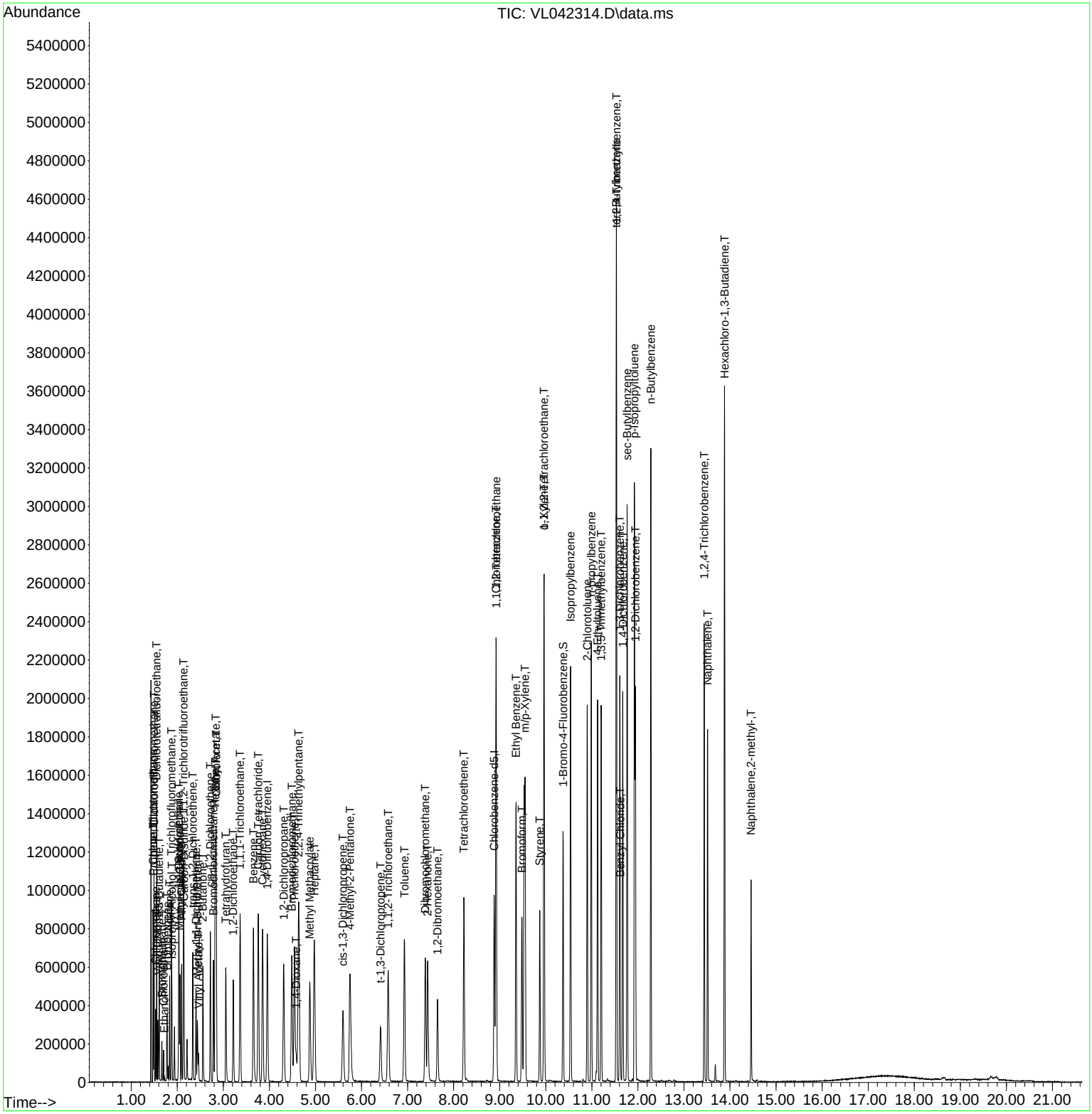
(#) = qualifier out of range (m) = manual integration (+) = signals summed

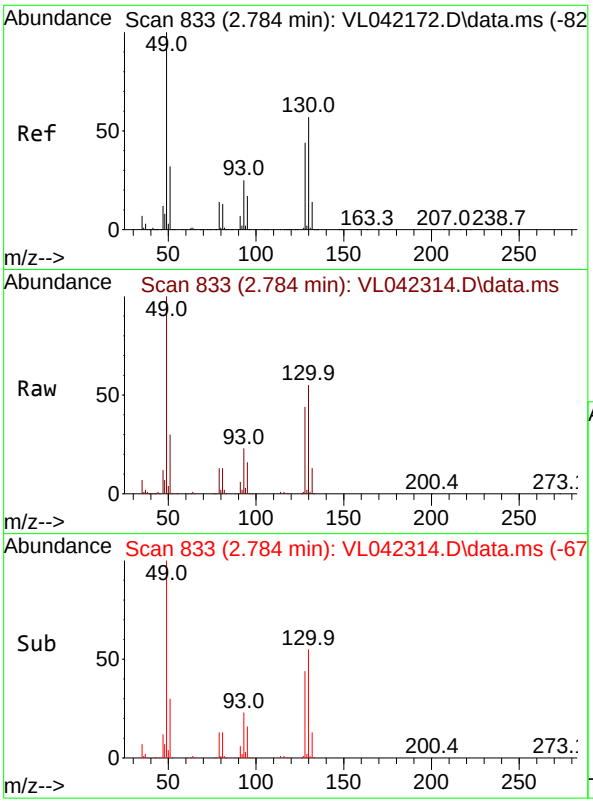
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042314.D
Acq On : 11 Apr 2025 11:23
Operator : SY/MD
Sample : VL0411ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 11 22:57:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

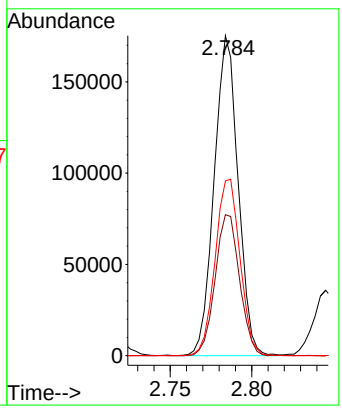





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 49 Resp: 17845

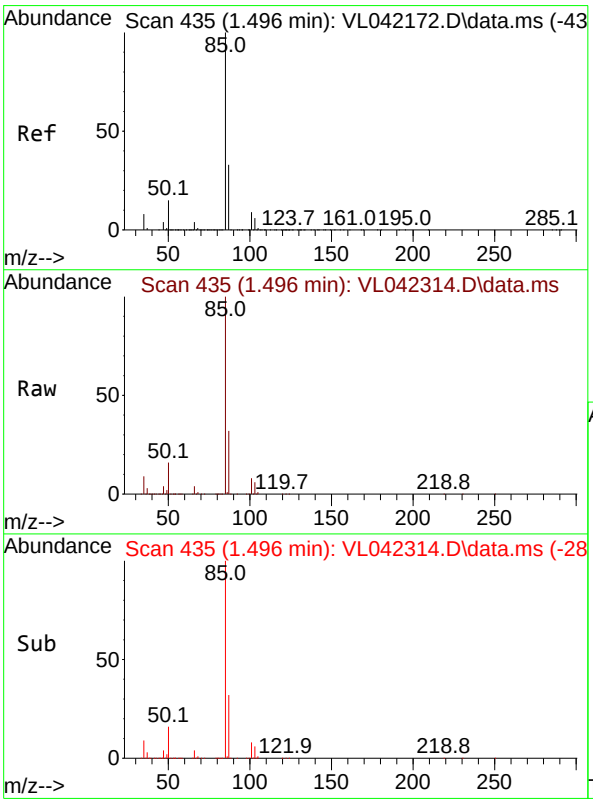
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 45.1 | 22.9 | 68.5 |
| 130 | 57.3 | 28.8 | 86.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

**Manual Integrations**
**APPROVED**

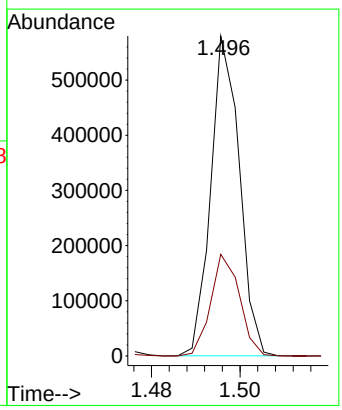
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

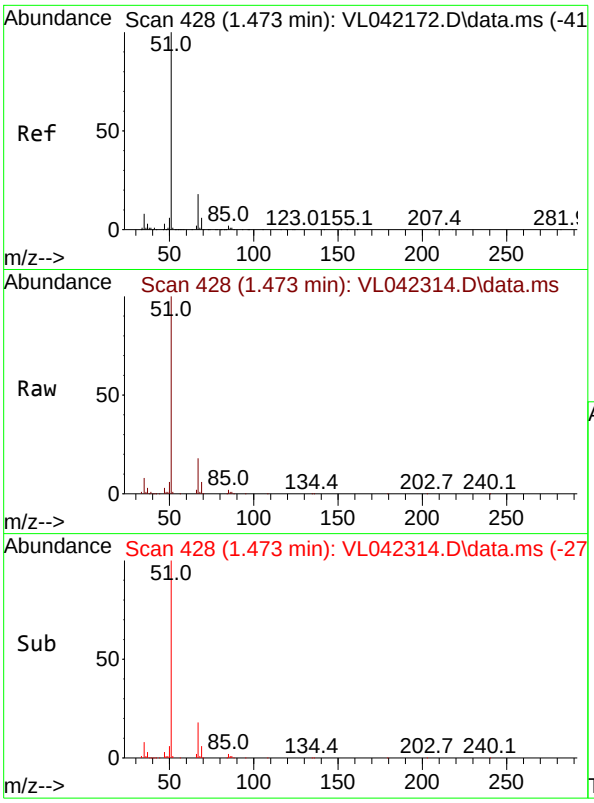



#2
Dichlorodifluoromethane
Concen: 9.873 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 85 Resp: 260154

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.8 | 26.1 | 39.1 |

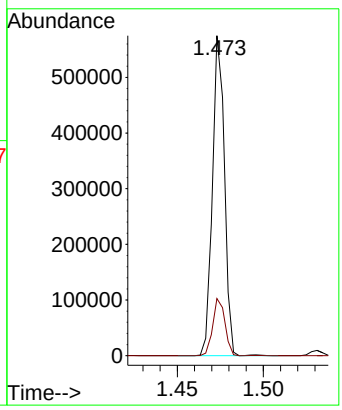





#3
Chlorodifluoromethane
Concen: 10.339 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 51 Resp: 27831

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 18.2 | 15.0 | 22.6 |




**Instrument :**
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**ClientSampleId :**
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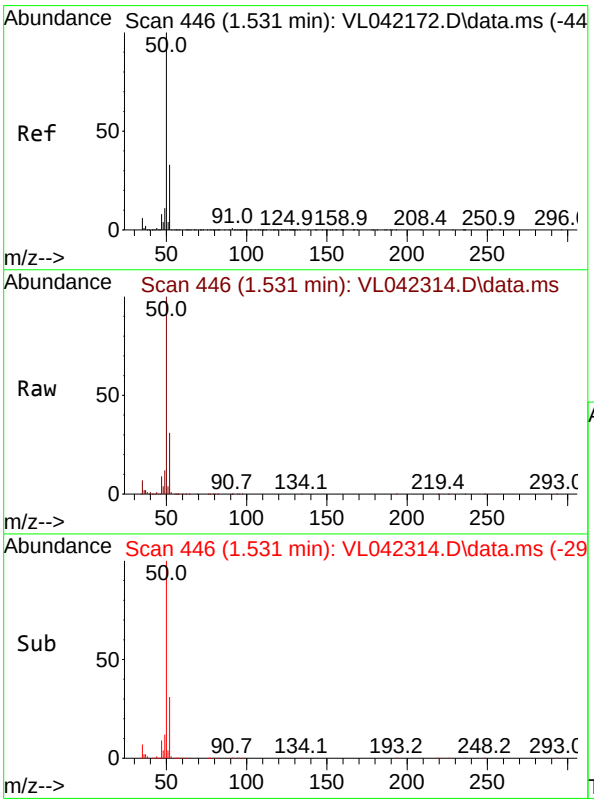
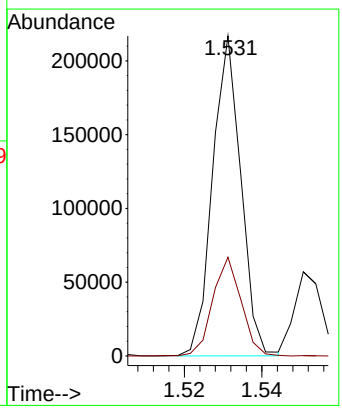
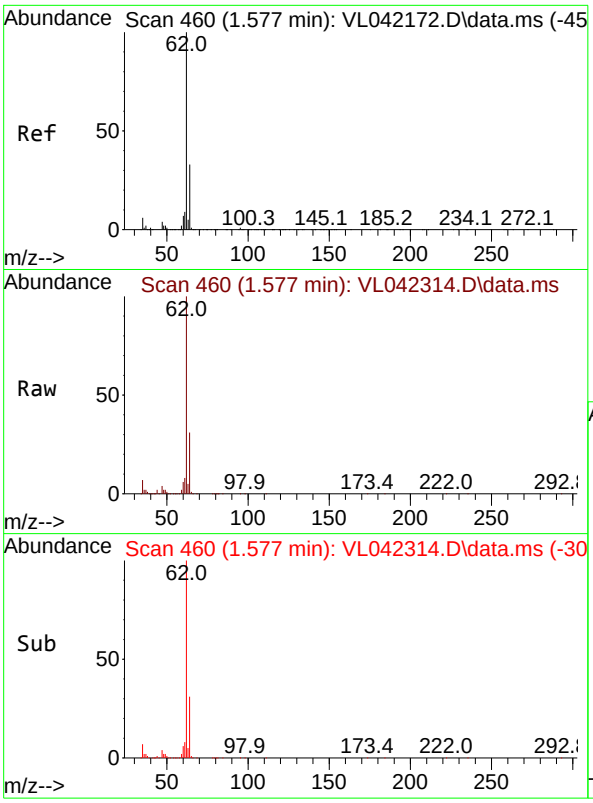



#4
Chloromethane
Concen: 10.207 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 50 Resp: 109906

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 30.8 | 26.1 | 39.1 |

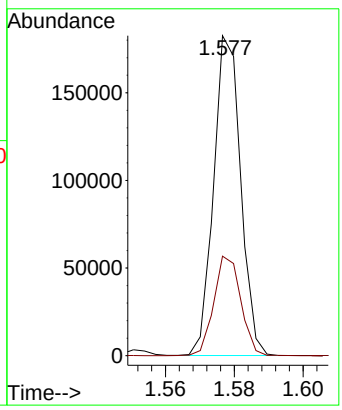





#5
Vinyl Chloride
Concen: 8.723 ppbv
RT: 1.577 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 62 Resp: 9954

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.0 | 26.6 | 40.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

**Manual Integrations**
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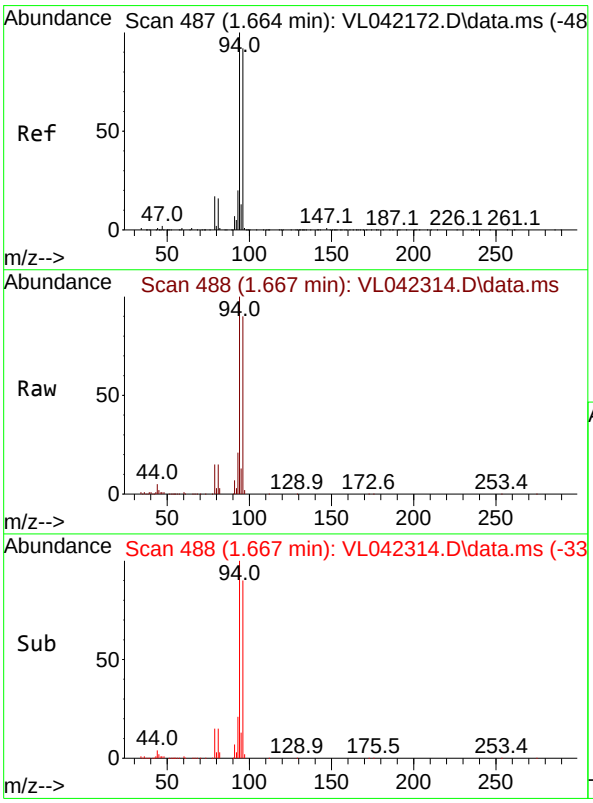
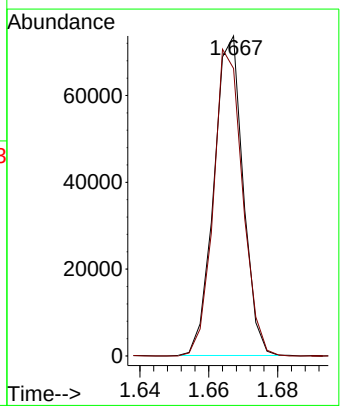
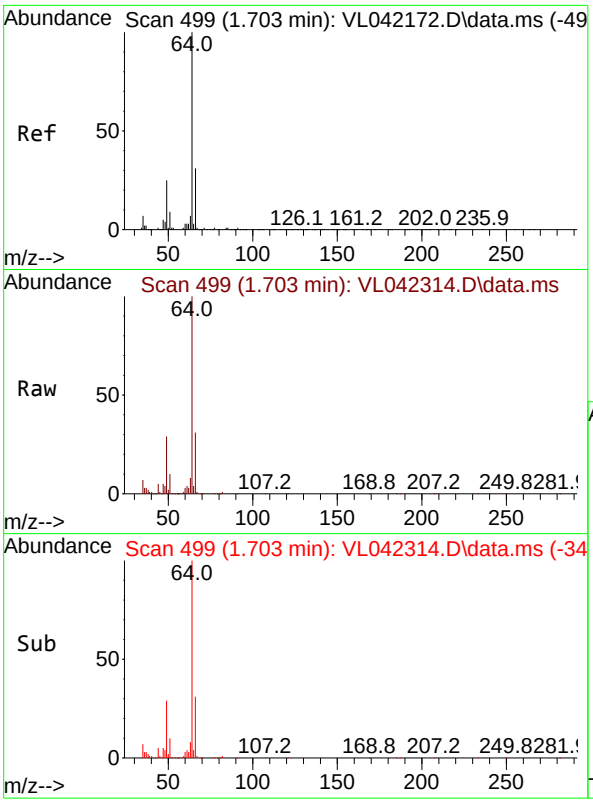



#6
Bromomethane
Concen: 8.884 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 94 Resp: 43354

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 90.0 | 73.1 | 109.7 |

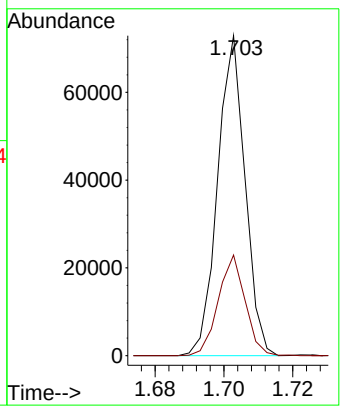





#7
Chloroethane
Concen: 9.340 ppbv
RT: 1.703 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 64 Resp: 4037

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 31.5 | 25.2 | 37.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

**Manual Integrations**
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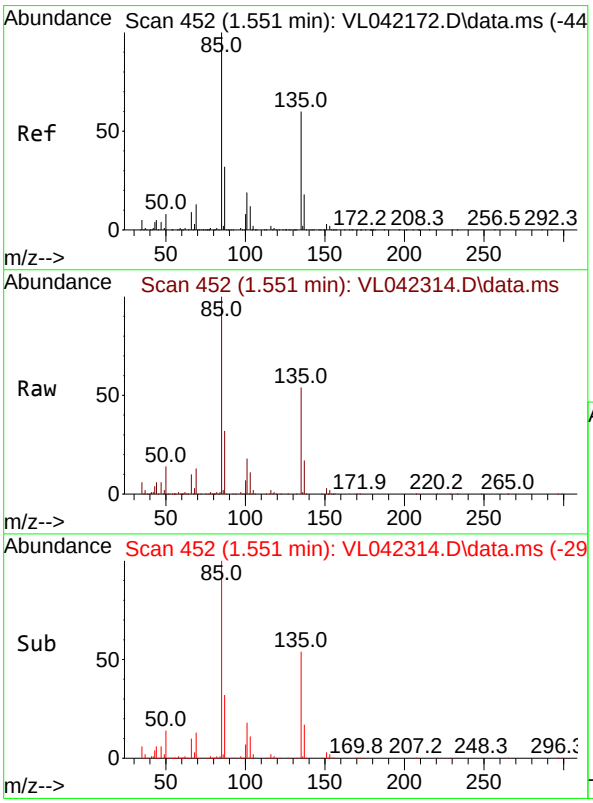
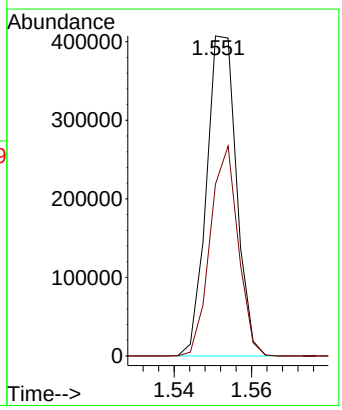
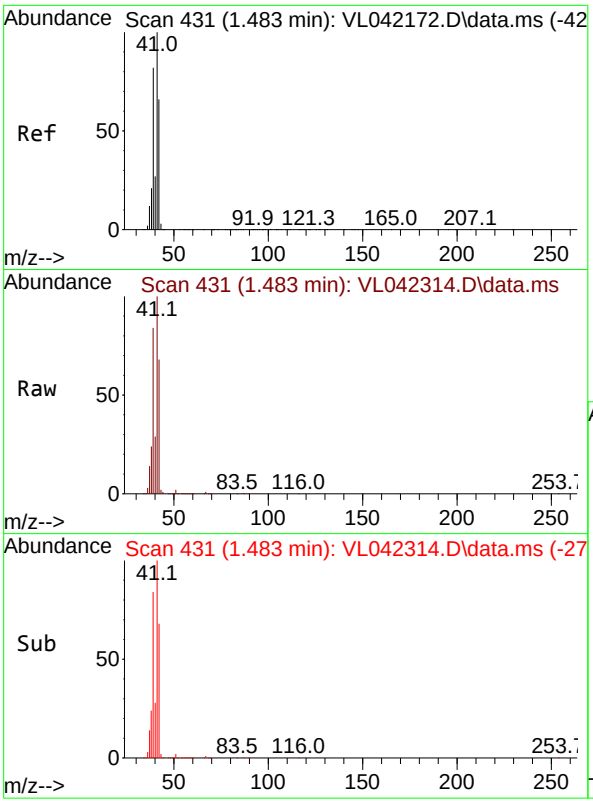



#8
Dichlorotetrafluoroethane
Concen: 9.769 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 85 Resp: 219210

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 61.1 | 52.4 | 78.6 |

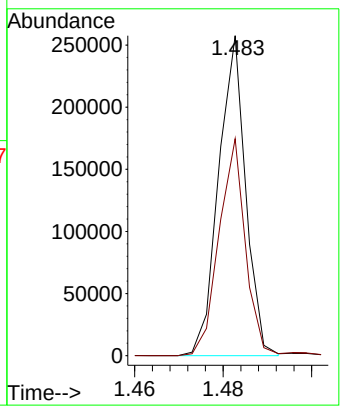





#9
Propene
Concen: 8.841 ppbv
RT: 1.483 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 41 Resp: 10907

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 67.5 | 55.4 | 83.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

**Manual Integrations**
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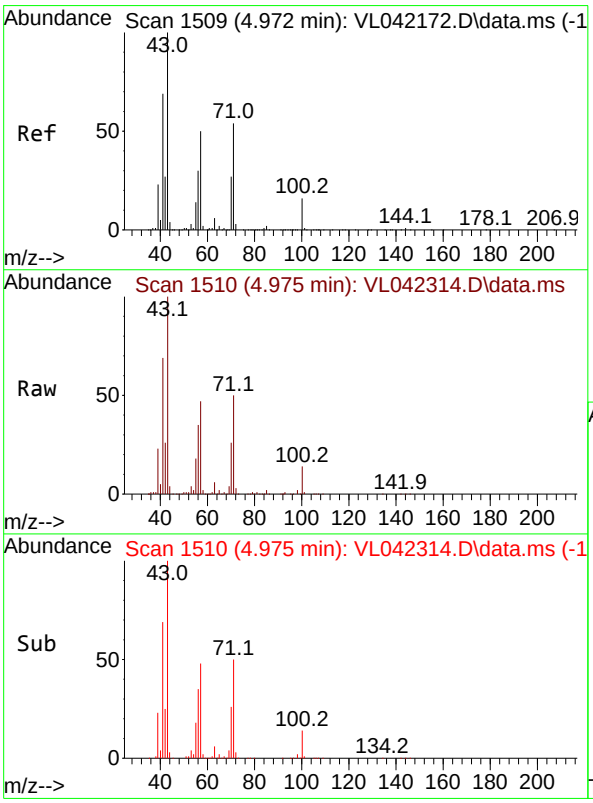
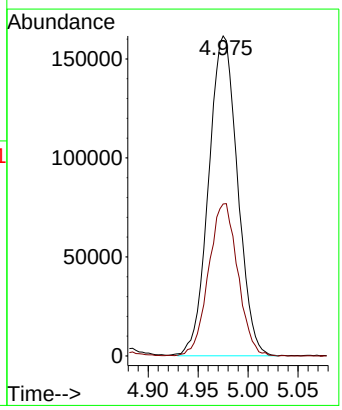
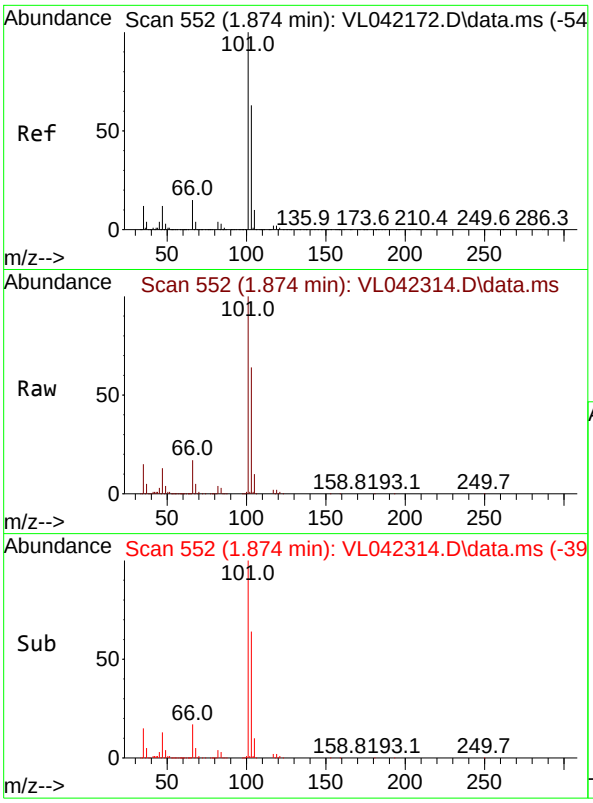



#10
Heptane
Concen: 9.912 ppbv
RT: 4.975 min Scan# 1510
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 43 Resp: 325268

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 48.1 | 39.4 | 59.2 |

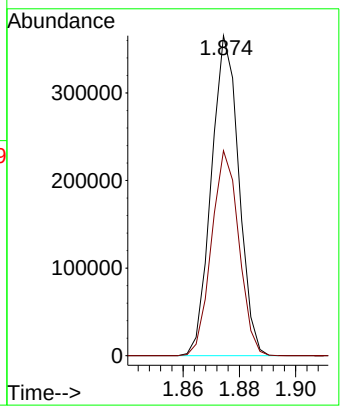





#11
Trichlorofluoromethane
Concen: 9.647 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion:101 Resp: 24734

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.0 | 50.2 | 75.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

**Manual Integrations**
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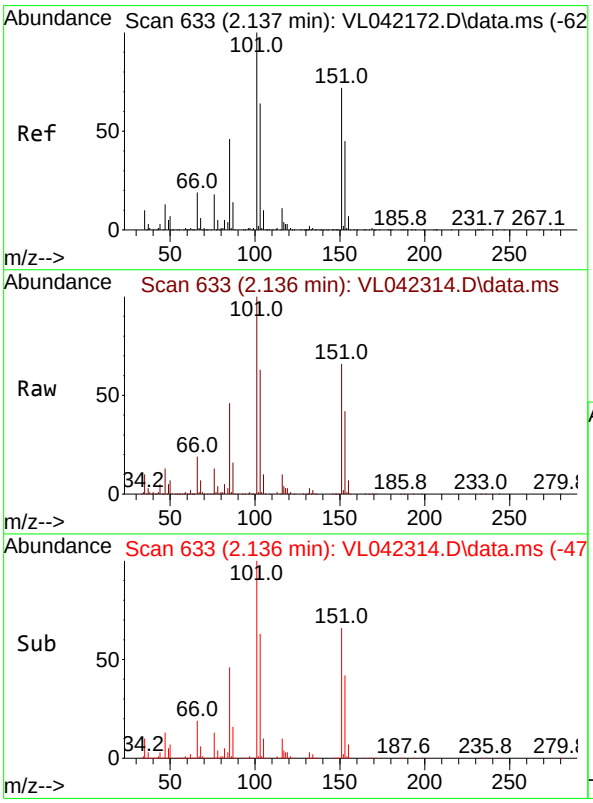
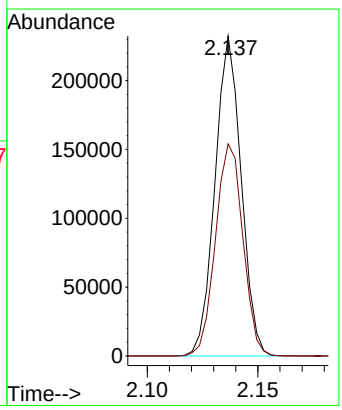
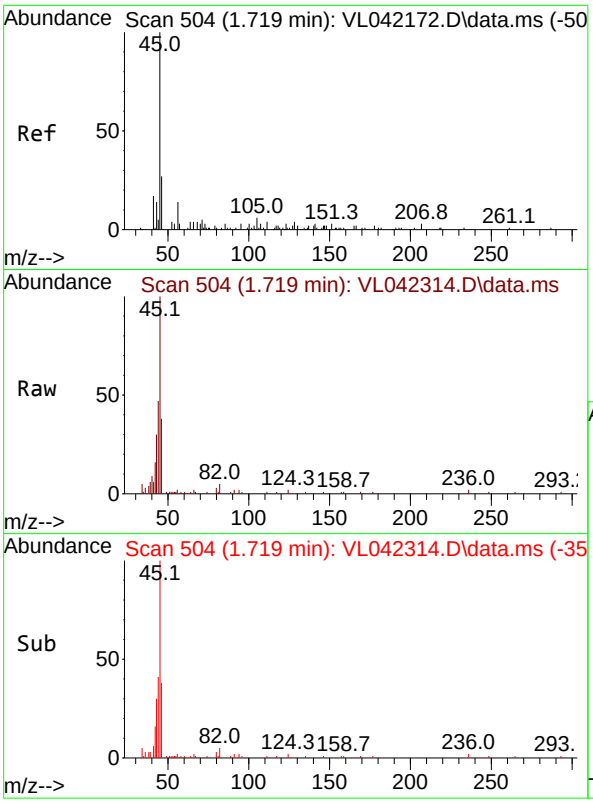



#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.085 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion:101 Resp: 191456

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 69.3 | 57.1 | 85.7 |

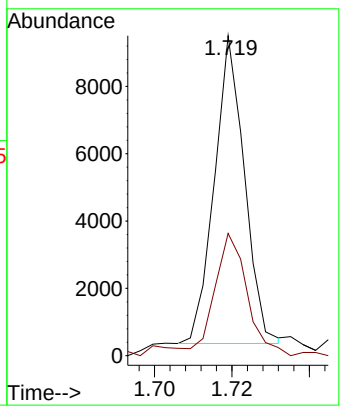





#13
Ethanol
Concen: 4.225 ppbv
RT: 1.719 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 45 Resp: 492

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 46.9 | 20.2 | 80.8 |




**Instrument :**
MSVOA_L
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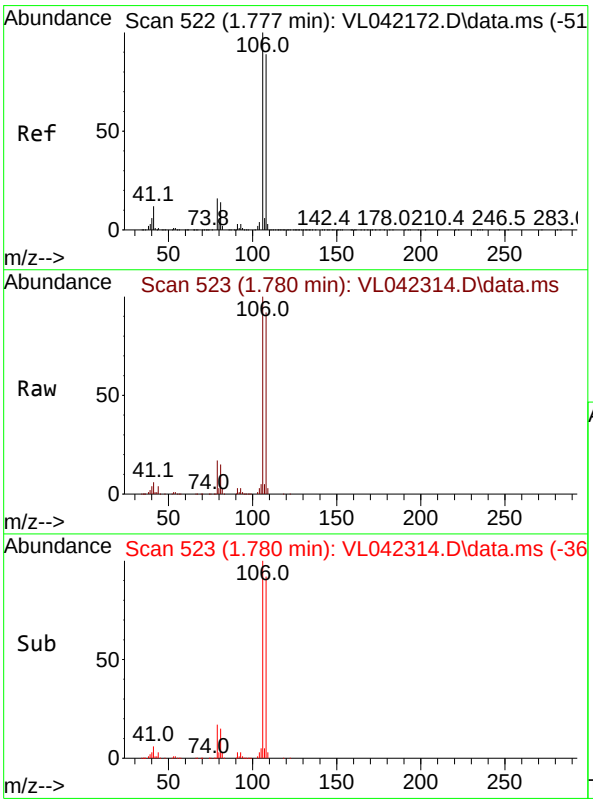
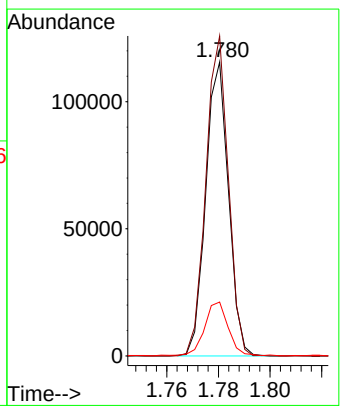
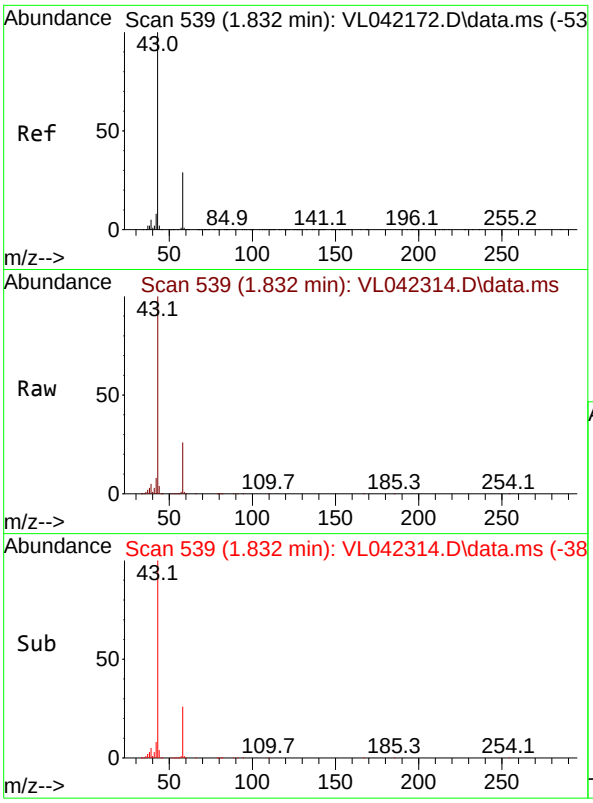



#14
Bromoethene
Concen: 8.758 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion:108 Resp: 70702

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 106 | 107.1 | 86.8 | 130.2 |
| 79 | 19.5 | 15.0 | 22.6 |

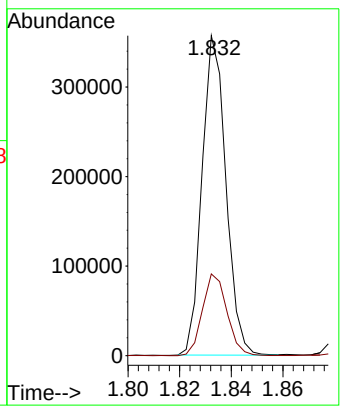





#15
Acetone
Concen: 9.175 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 43 Resp: 22898

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 26.3 | 23.2 | 34.8 |




**Instrument :**
MSVOA_L
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VL0411ABS01

**Manual Integrations**
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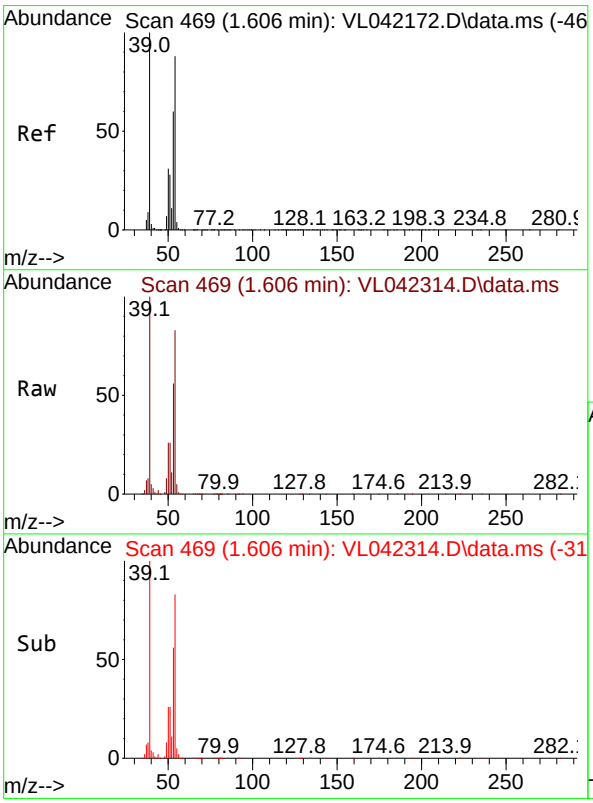
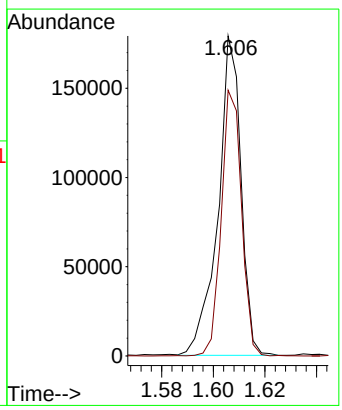
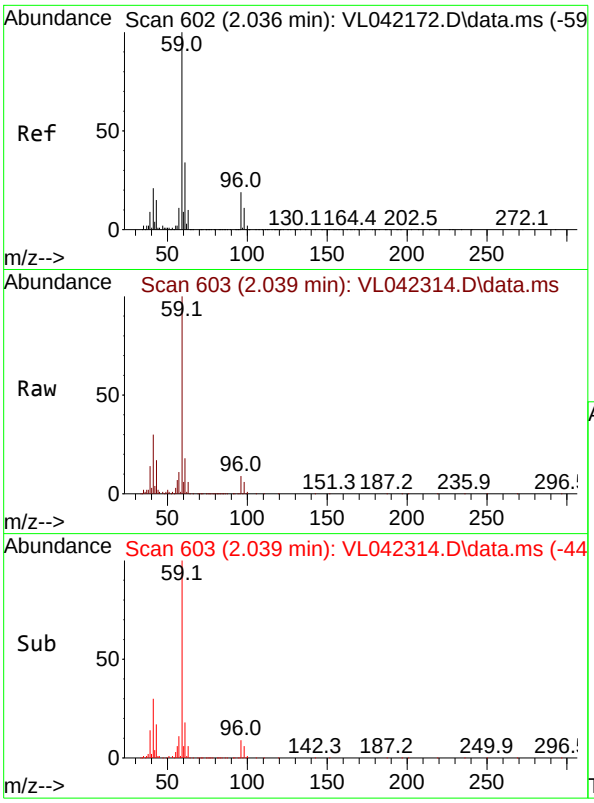



#16
1,3-Butadiene
Concen: 9.060 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 39 Resp: 110429

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 73.5 | 60.7 | 91.1 |

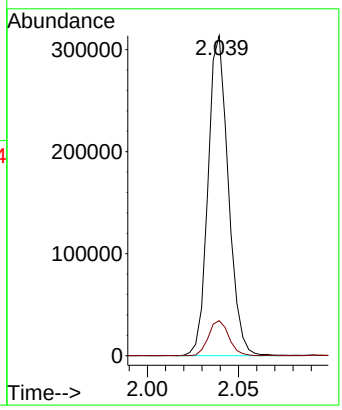





#17
tert-Butyl alcohol
Concen: 7.818 ppbv
RT: 2.039 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 59 Resp: 24303

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 11.0 | 8.9 | 13.3 |

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MSVOA_L
**ClientSampleId :**
VL0411ABS01

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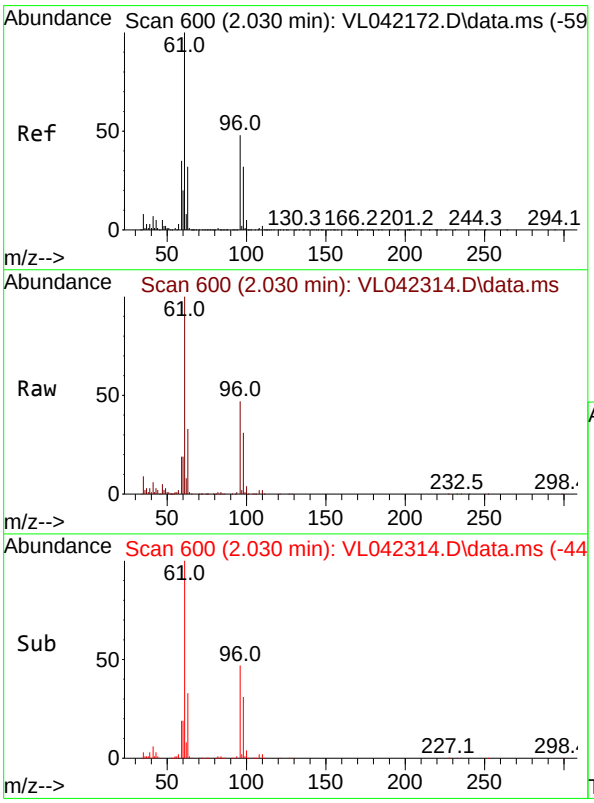
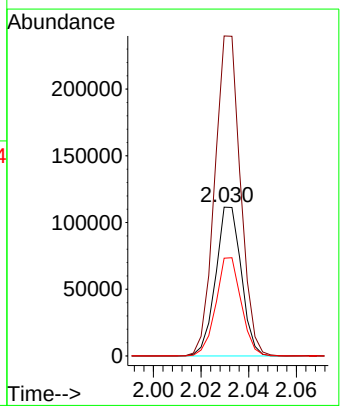
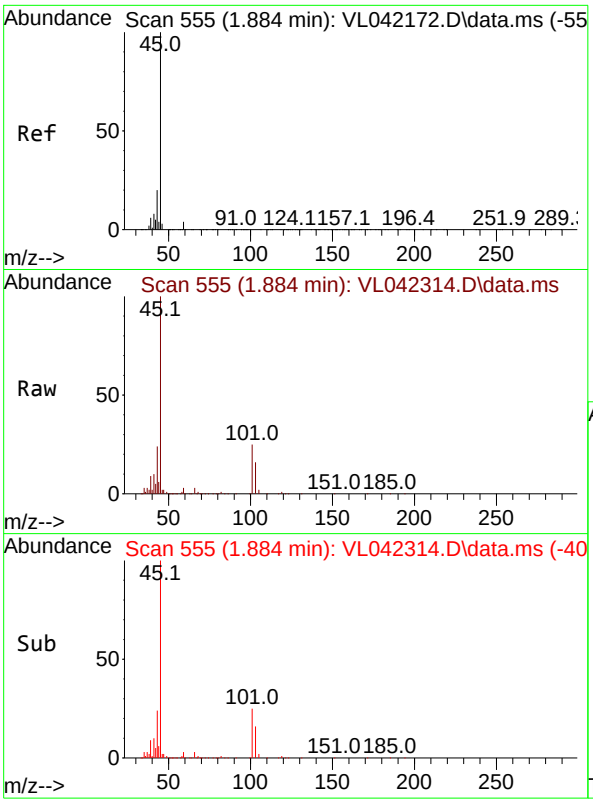



#18
1,1-Dichloroethene
Concen: 8.449 ppbv
RT: 2.030 min Scan# 600
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 96 Resp: 83233

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 215.0 | 167.6 | 251.4 |
| 98 | 65.6 | 53.5 | 80.3 |

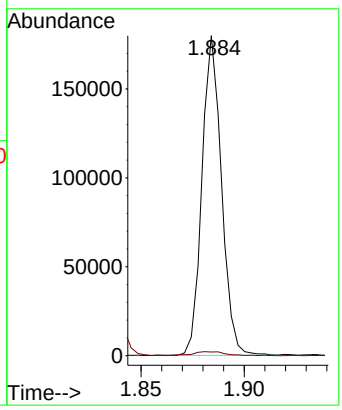





#19
Isopropyl Alcohol
Concen: 8.404 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 45 Resp: 11834

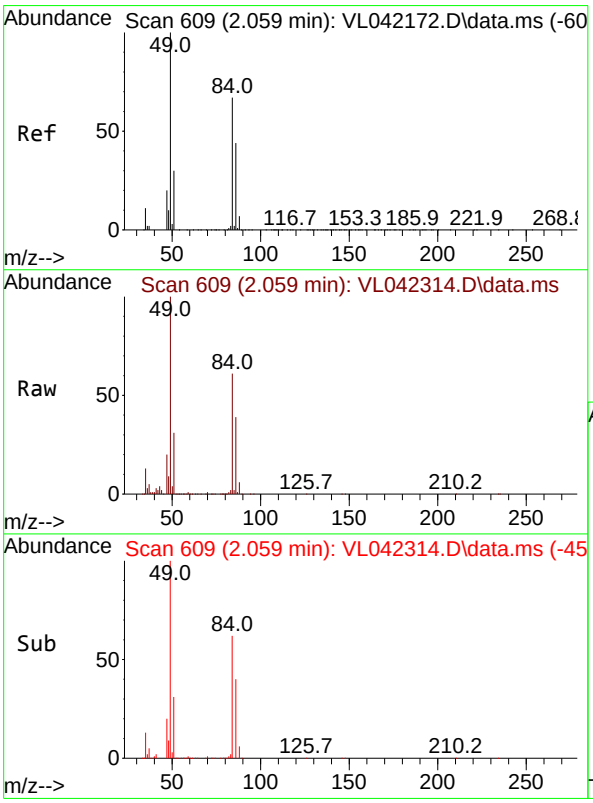
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 2.2 | 36.9 | 55.3# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

**Manual Integrations**
**APPROVED**

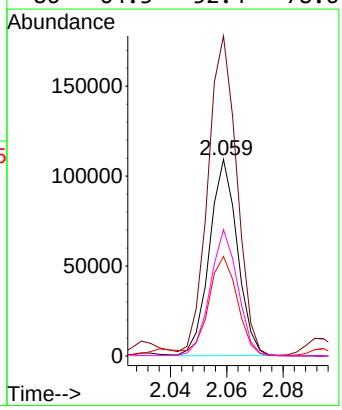
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

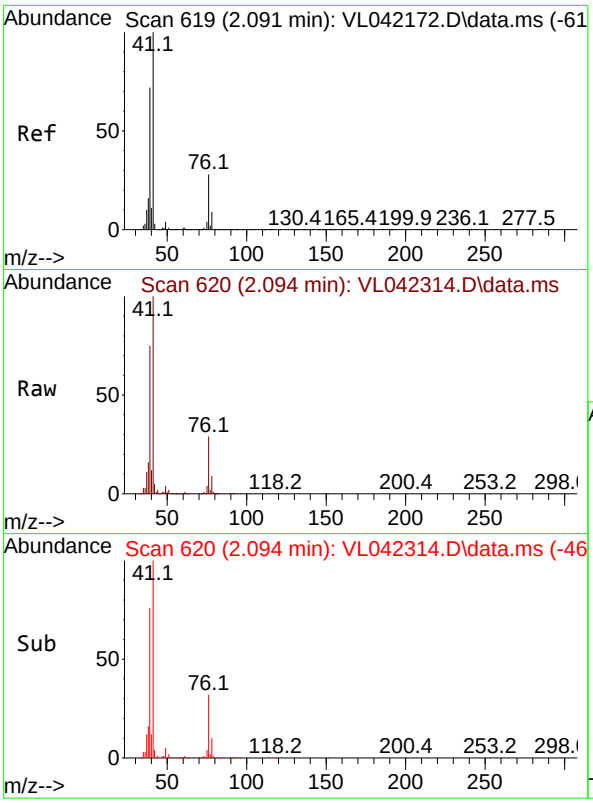



#20
Methylene Chloride
Concen: 8.097 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 84 Resp: 75264

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 162.8 | 120.2 | 180.4 |
| 51 | 50.6 | 37.4 | 56.0 |
| 86 | 64.3 | 52.4 | 78.6 |

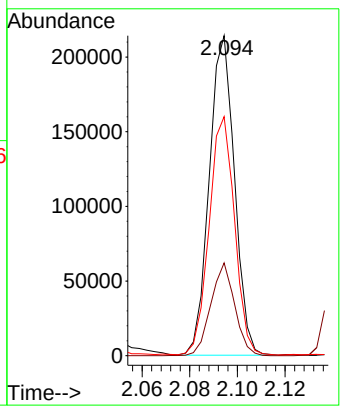





#21
Allyl Chloride
Concen: 8.934 ppbv
RT: 2.094 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 41 Resp: 15726

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 27.5 | 24.1 | 36.1 |
| 39 | 75.1 | 61.1 | 91.7 |

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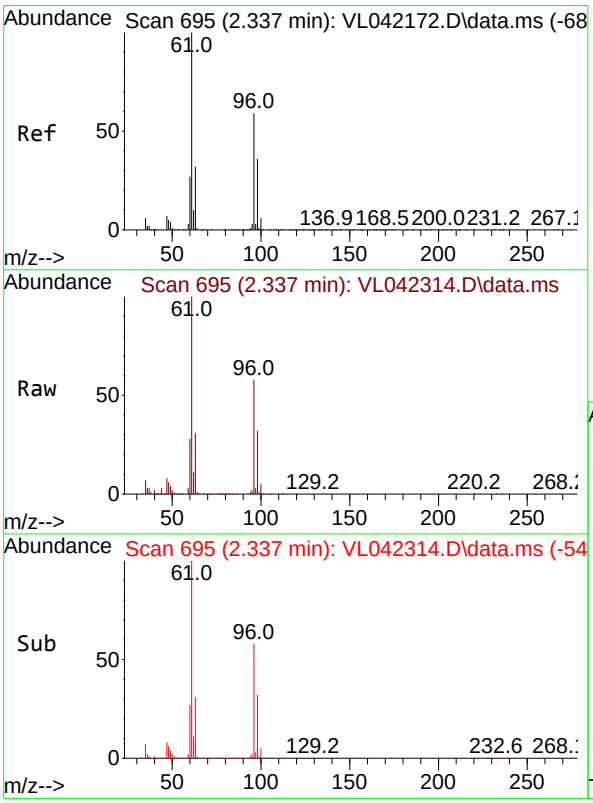
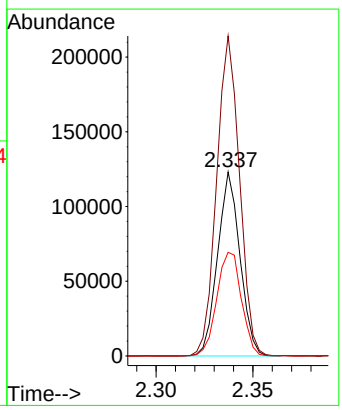
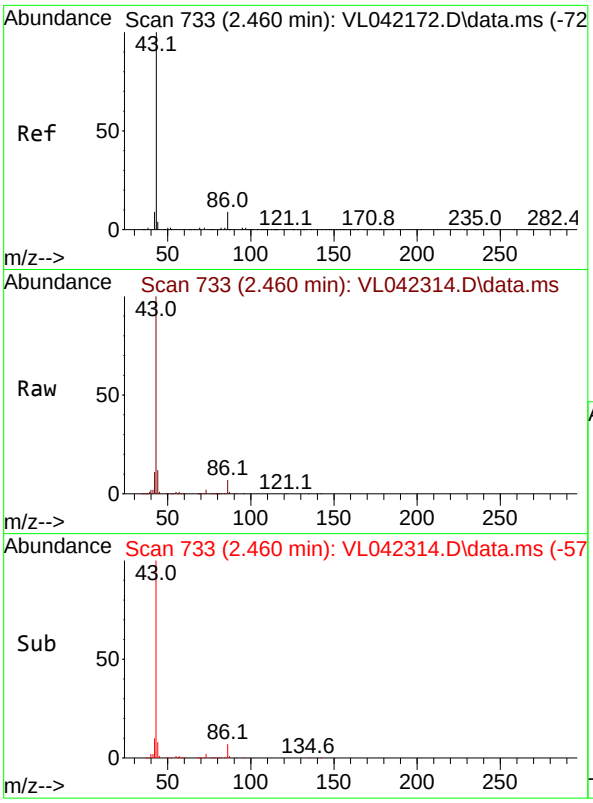



#22
trans-1,2-Dichloroethene
Concen: 8.674 ppbv
RT: 2.337 min Scan# 695
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 96 Resp: 98769

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 173.9 | 136.6 | 204.8 |
| 98 | 56.3 | 49.4 | 74.2 |

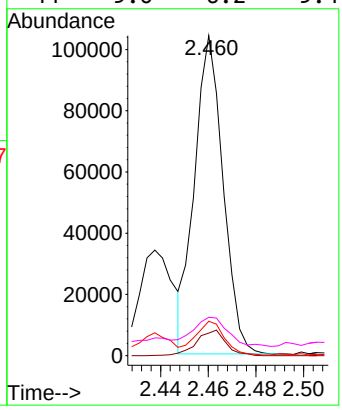





#23
Vinyl Acetate
Concen: 8.014 ppbv
RT: 2.460 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 43 Resp: 8656

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 7.1 | 5.5 | 8.3 |
| 42 | 9.9 | 8.6 | 13.0 |
| 44 | 9.0 | 6.2 | 9.4 |

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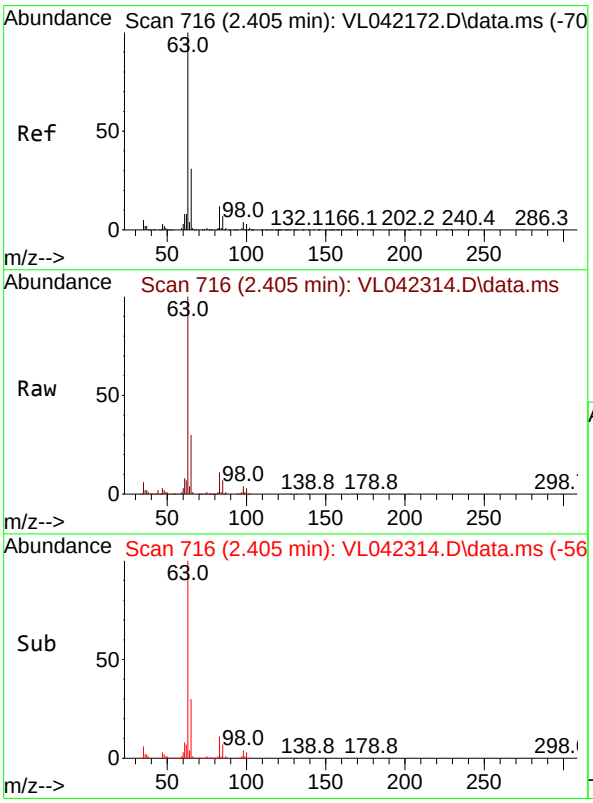
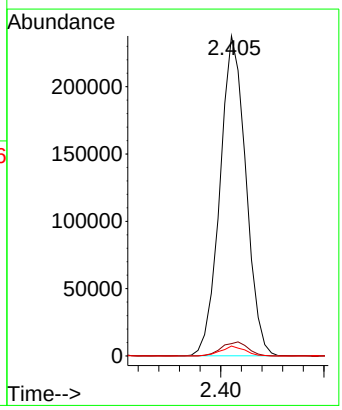
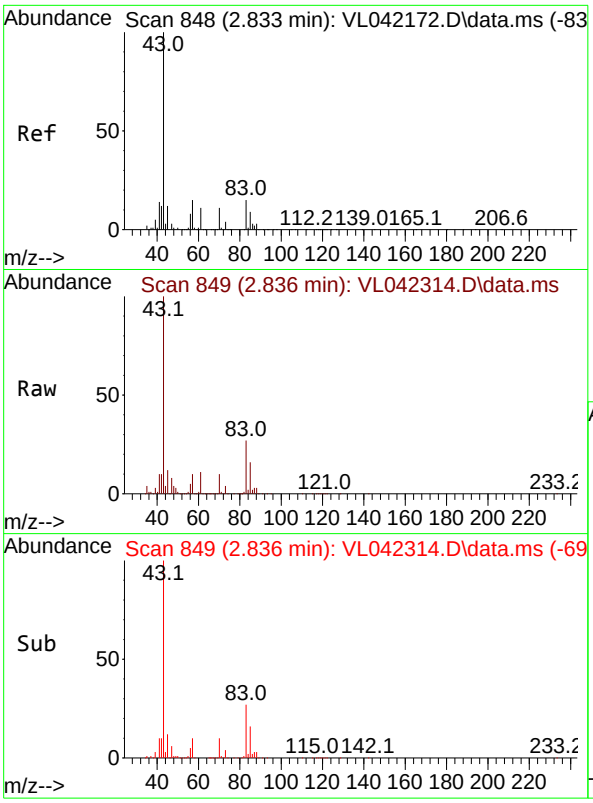



#24
1,1-Dichloroethane
Concen: 9.800 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 63 Resp: 206840

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 3.8 | 2.3 | 6.8 |
| 100 | 3.1 | 1.6 | 4.7 |

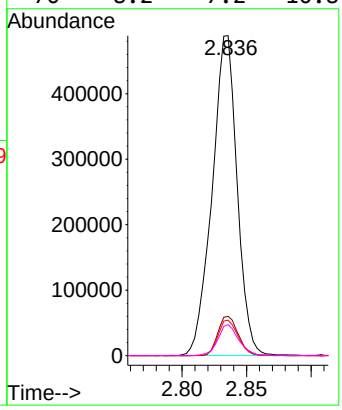





#25
Ethyl Acetate
Concen: 10.138 ppbv
RT: 2.836 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 43 Resp: 65671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 10.2 | 8.2 | 12.2 |
| 61 | 9.0 | 7.3 | 10.9 |
| 70 | 8.2 | 7.2 | 10.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
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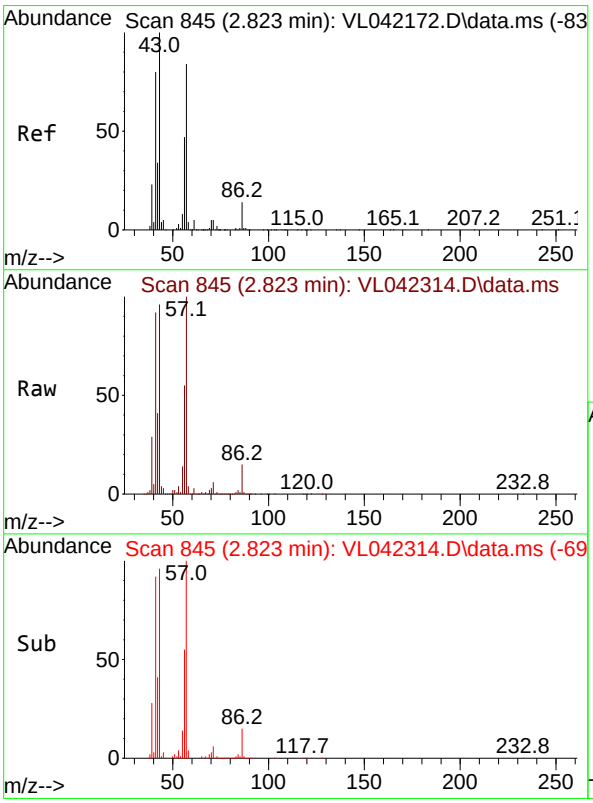
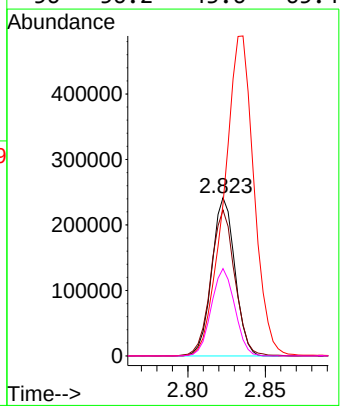
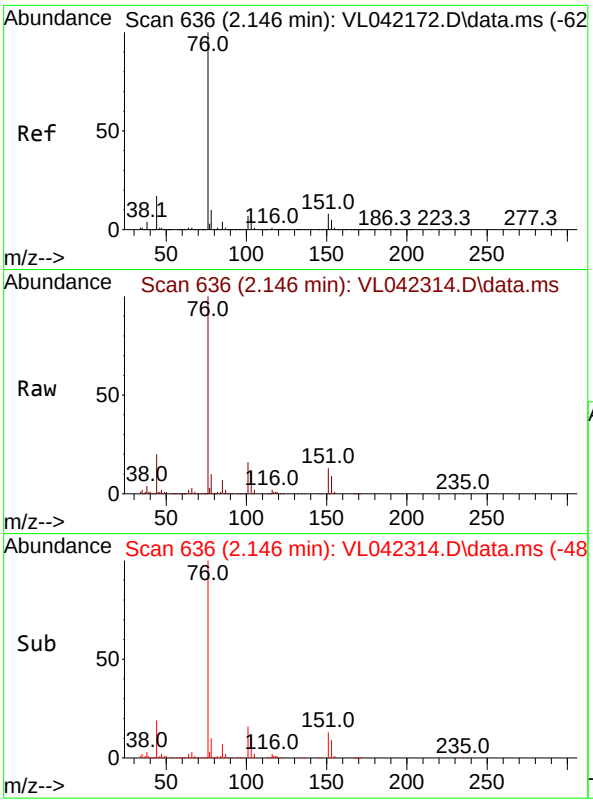



#26
Hexane
Concen: 9.986 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 57 Resp: 249860

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 97.2 | 76.6 | 114.8 |
| 43 | 264.3 | 207.8 | 311.8 |
| 56 | 56.2 | 43.6 | 65.4 |

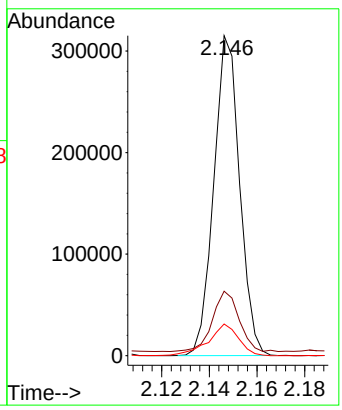





#27
Carbon Disulfide
Concen: 8.833 ppbv
RT: 2.146 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 76 Resp: 23699

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 19.3 | 14.7 | 22.1 |
| 78 | 11.6 | 9.3 | 13.9 |

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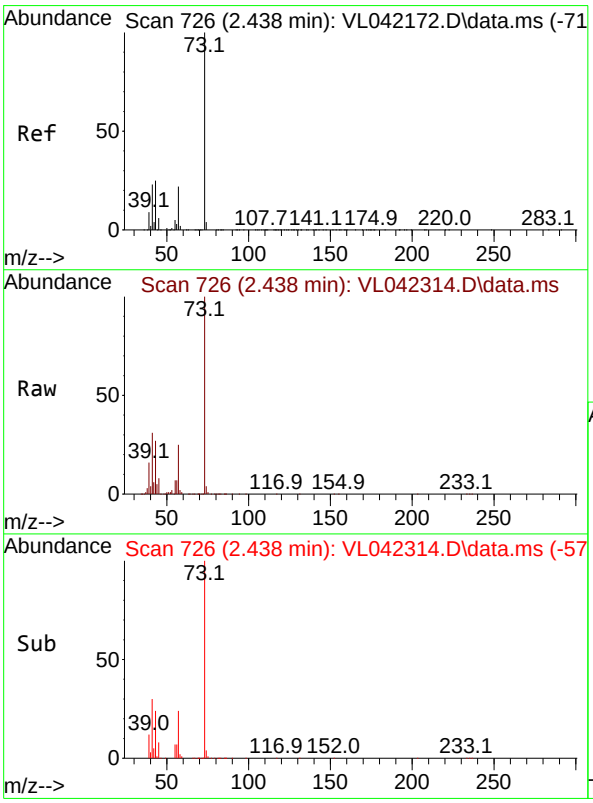
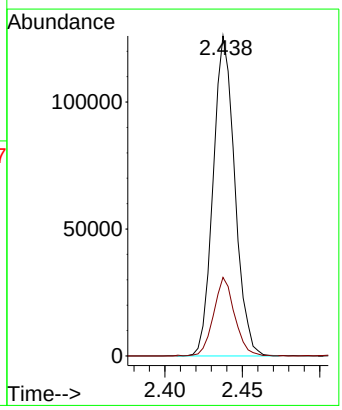
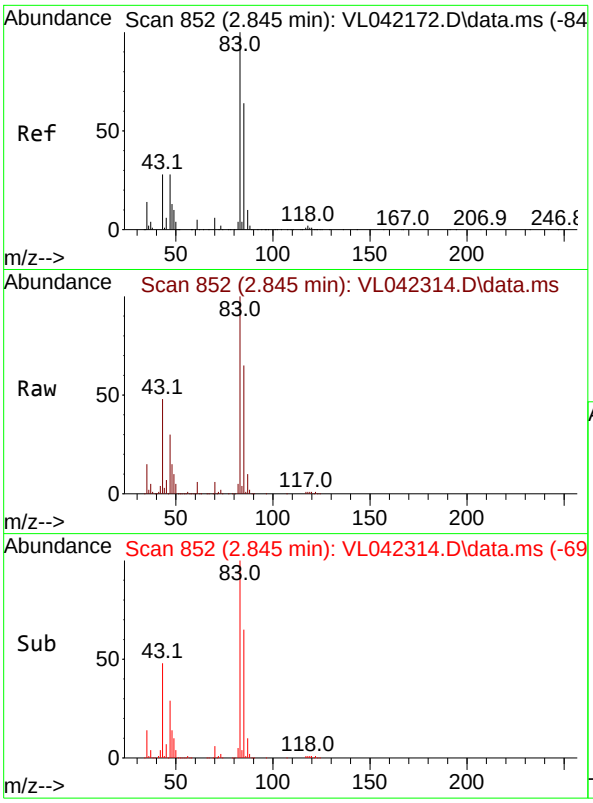



#28
Methyl tert-Butyl Ether
Concen: 7.884 ppbv
RT: 2.438 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 73 Resp: 122818

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 23.9 | 20.5 | 30.7 |






#29
Chloroform
Concen: 10.506 ppbv
RT: 2.845 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 83 Resp: 38471

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.6 | 51.4 | 77.2 |

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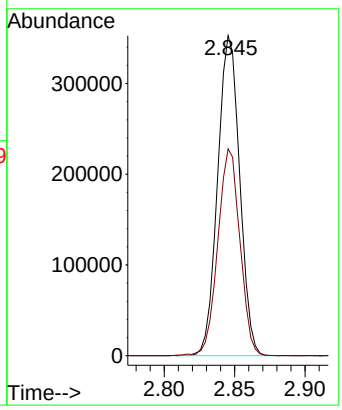
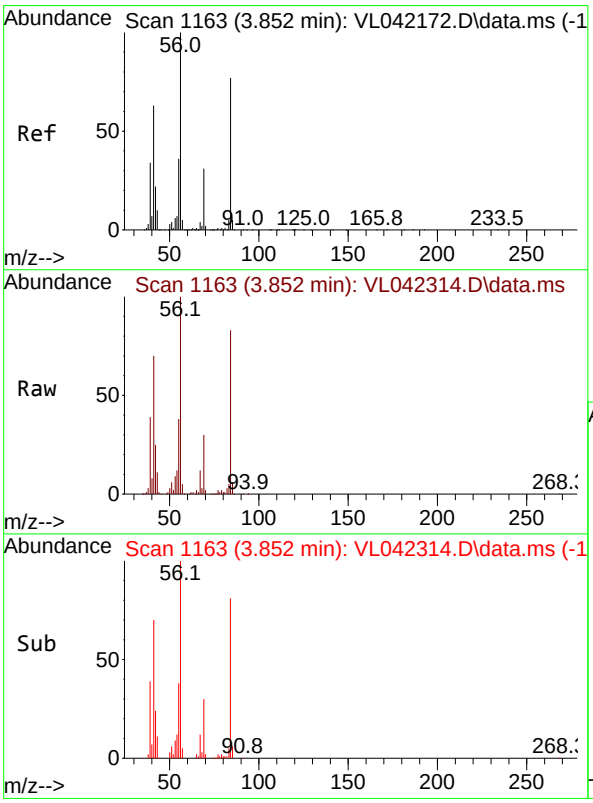
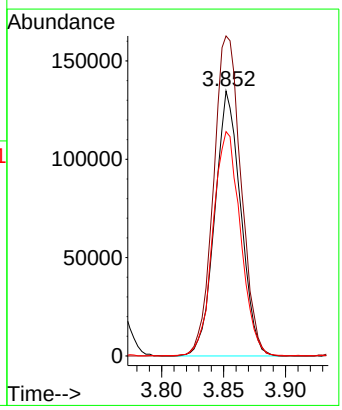


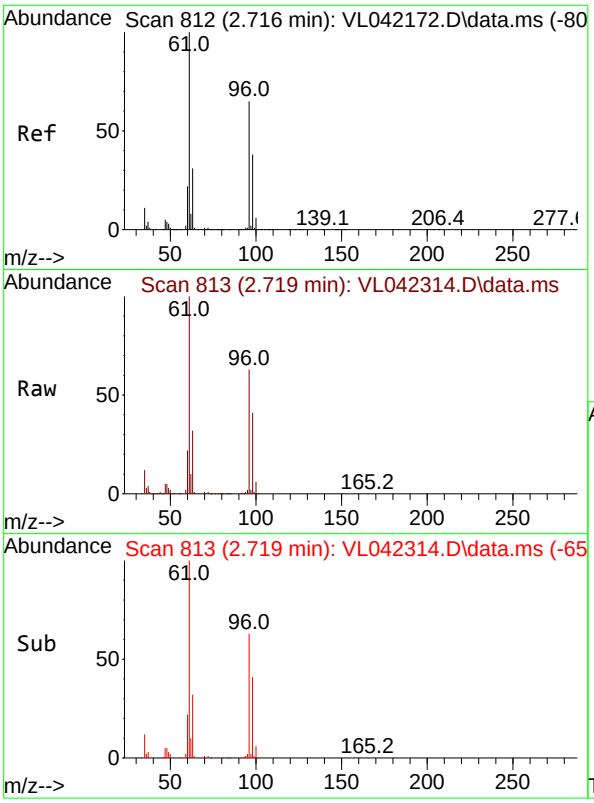




#30
Cyclohexane
Concen: 9.028 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 84 Resp: 196133

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 128.6 | 102.8 | 154.2 |
| 41 | 90.3 | 66.5 | 99.7 |

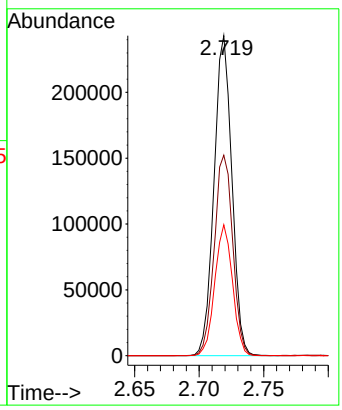





#31
cis-1,2-Dichloroethene
Concen: 9.187 ppbv
RT: 2.719 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 61 Resp: 23337

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 62.7 | 51.8 | 77.8 |
| 98 | 40.9 | 30.6 | 46.0 |

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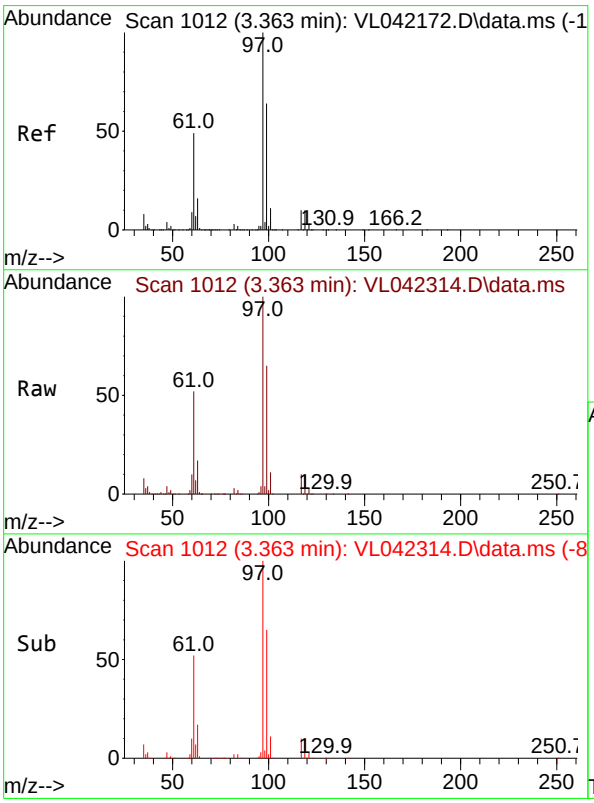
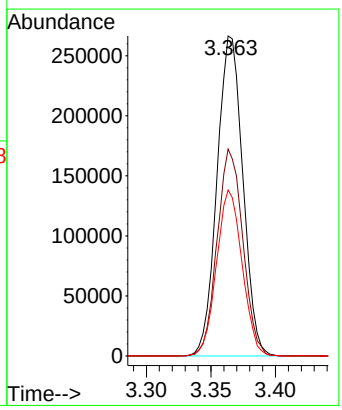
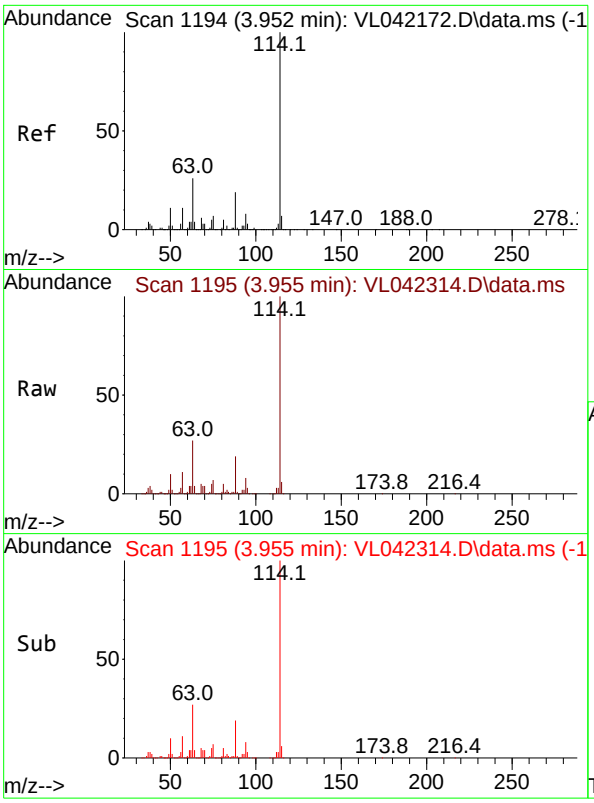



#32
1,1,1-Trichloroethane
Concen: 8.836 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 97 Resp: 370405

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.3 | 51.5 | 77.3 |
| 61 | 51.5 | 38.7 | 58.1 |

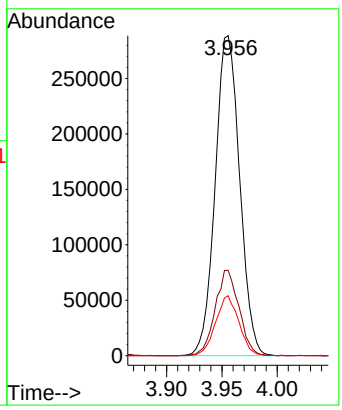





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion:114 Resp: 44435

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 26.0 | 20.7 | 31.1 |
| 88 | 17.8 | 15.0 | 22.4 |

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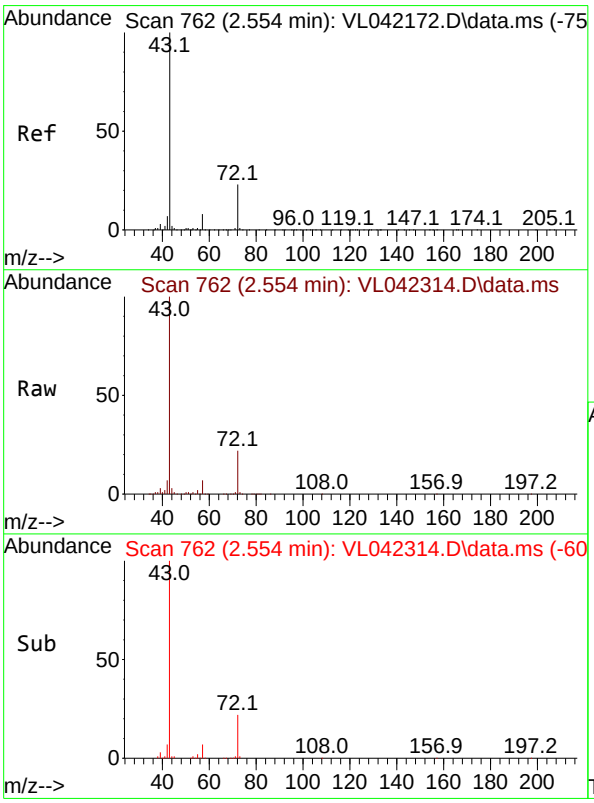
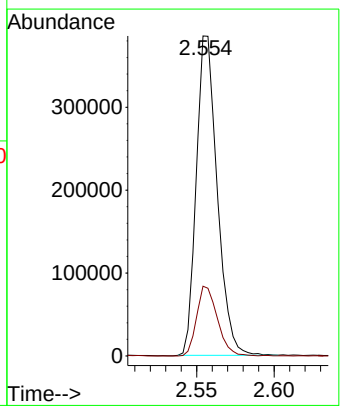
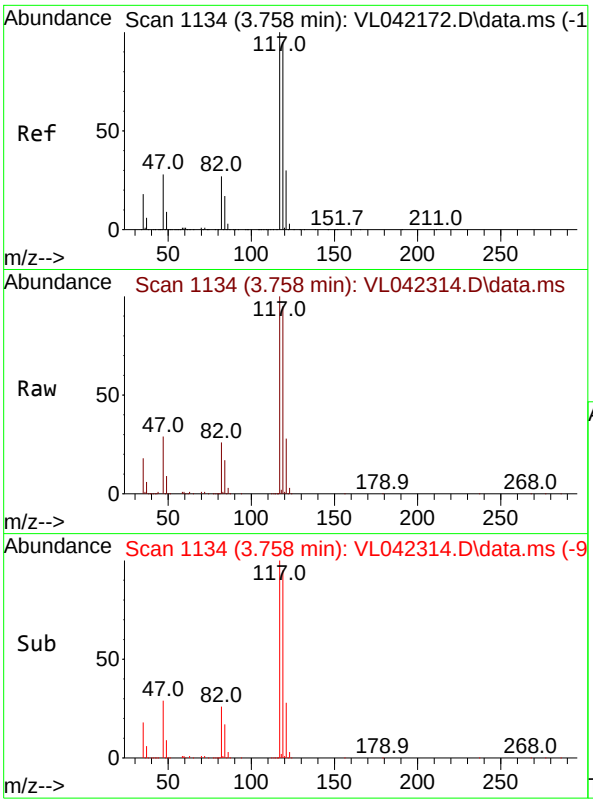



#34
2-Butanone
Concen: 11.254 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 43 Resp: 362633

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 21.8 | 18.2 | 27.2 |

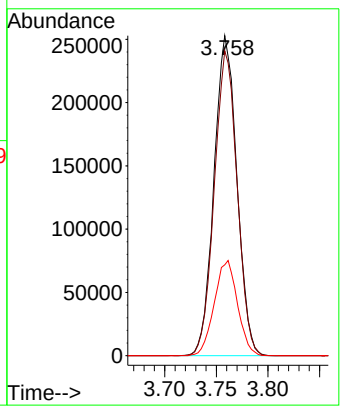





#35
Carbon Tetrachloride
Concen: 11.228 ppbv
RT: 3.758 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion:117 Resp: 38973

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 95.2 | 76.2 | 114.2 |
| 121 | 28.4 | 24.2 | 36.4 |

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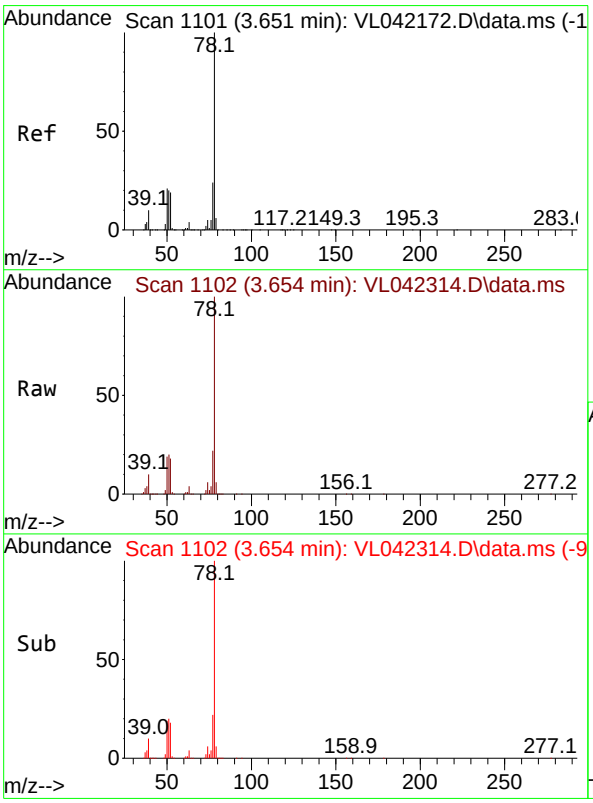
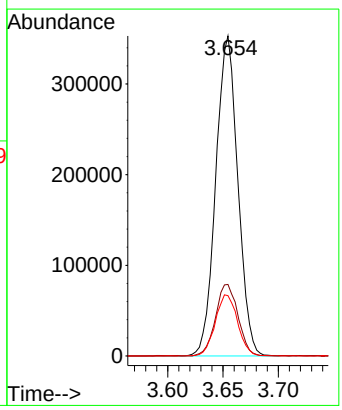
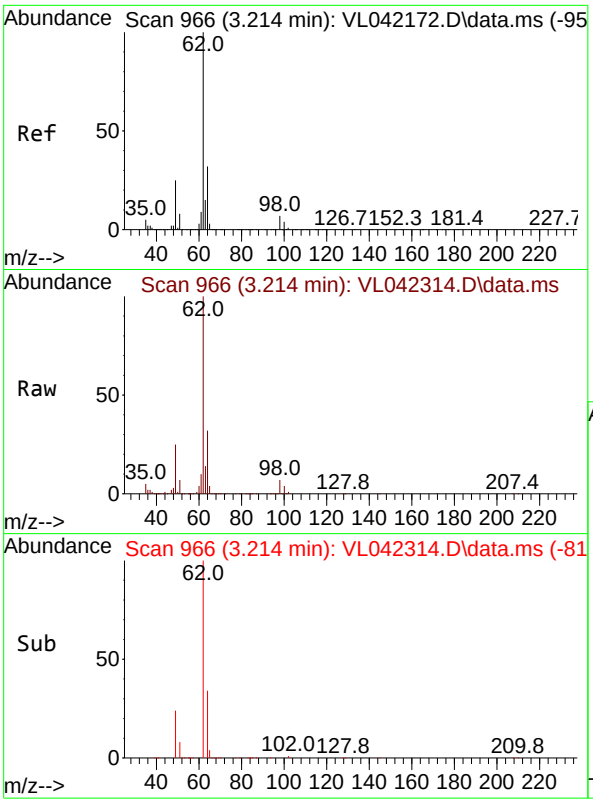



#36
Benzene
Concen: 11.131 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 78 Resp: 490339

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 22.3 | 19.1 | 28.7 |
| 50 | 18.8 | 16.6 | 24.8 |






#37
1,2-Dichloroethane
Concen: 11.538 ppbv
RT: 3.214 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 62 Resp: 29098

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 6.9 | 5.4 | 8.2 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
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**Manual Integrations**
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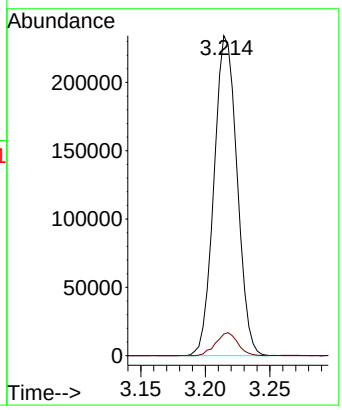
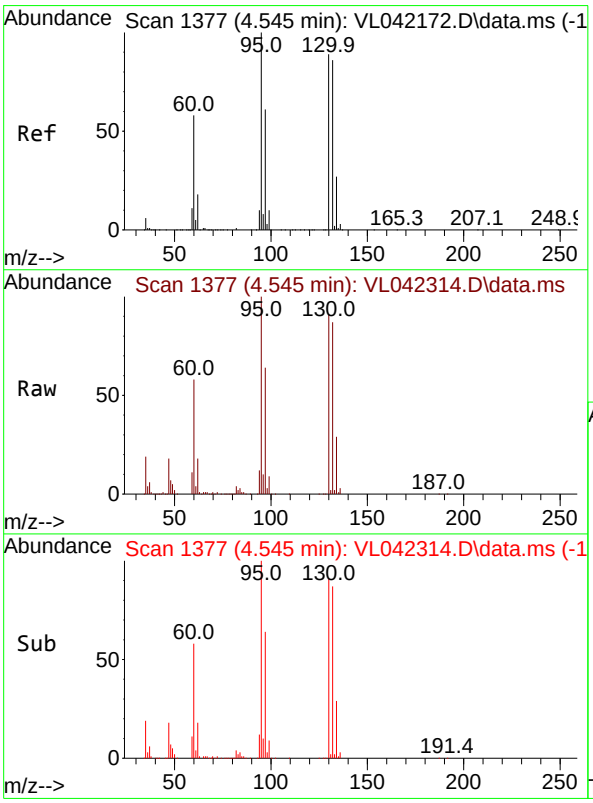
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

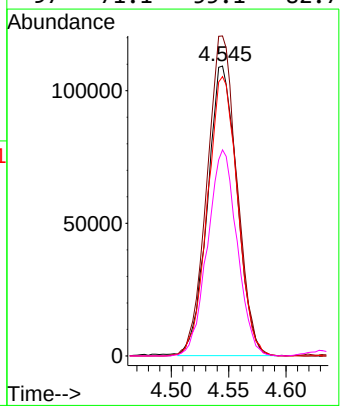


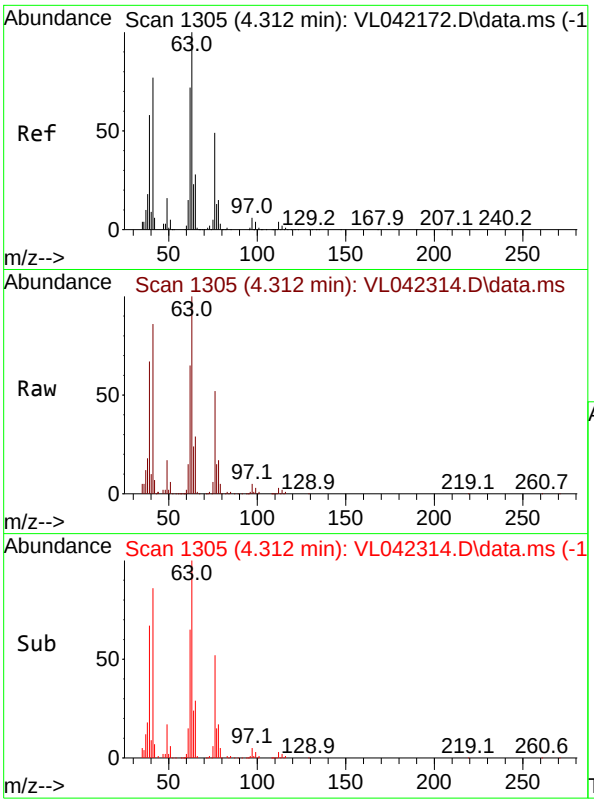




#38
Trichloroethene
Concen: 10.645 ppbv
RT: 4.545 min Scan# 1377
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion:130 Resp: 195654

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 110.4 | 89.8 | 134.8 |
| 132 | 96.5 | 77.4 | 116.2 |
| 97 | 71.1 | 55.1 | 82.7 |

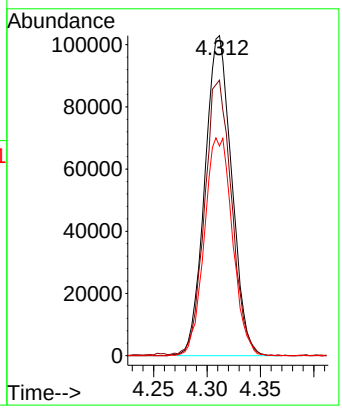





#39
1,2-Dichloropropane
Concen: 11.217 ppbv
RT: 4.312 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 63 Resp: 17995

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 85.9 | 61.7 | 92.5 |
| 62 | 65.3 | 57.6 | 86.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

**Manual Integrations**
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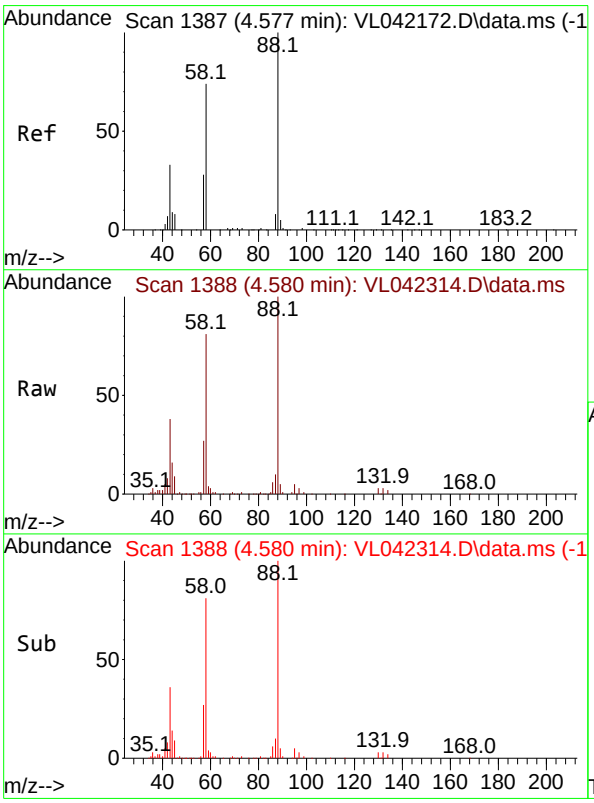
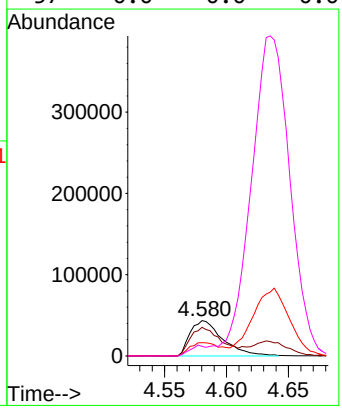
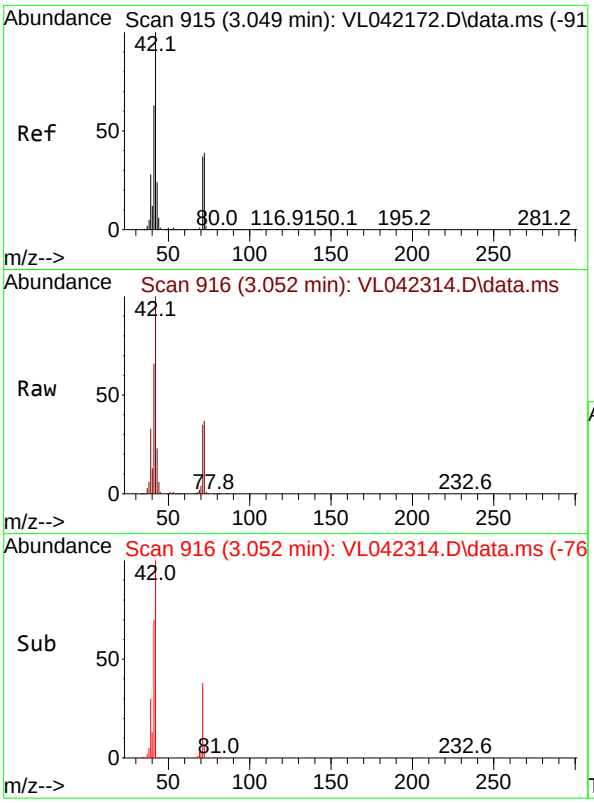



#40
1,4-Dioxane
Concen: 9.408 ppbv
RT: 4.580 min Scan# 1388
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 88 Resp: 80106

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 81.4 | 62.7 | 94.1 |
| 43 | 0.0 | 23.0 | 34.4# |
| 57 | 0.0 | 0.0 | 0.0 |

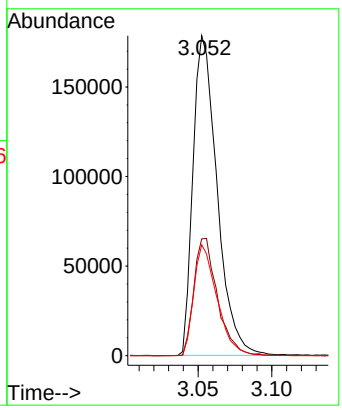





#41
Tetrahydrofuran
Concen: 10.930 ppbv
RT: 3.052 min Scan# 91
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 42 Resp: 20279

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 36.0 | 31.4 | 47.0 |
| 71 | 33.5 | 30.2 | 45.4 |

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**ClientSampleId :**
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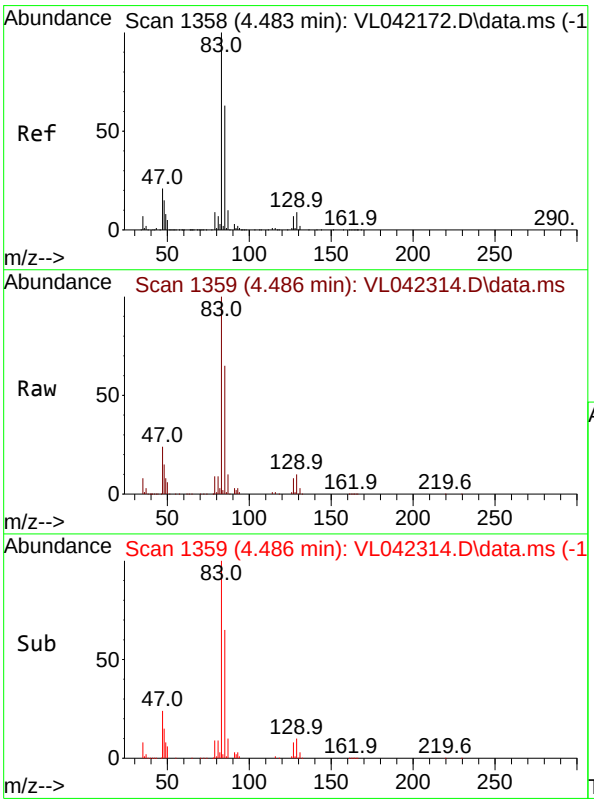
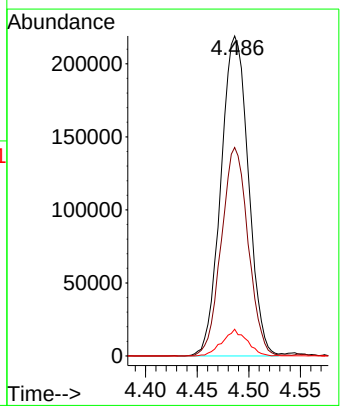
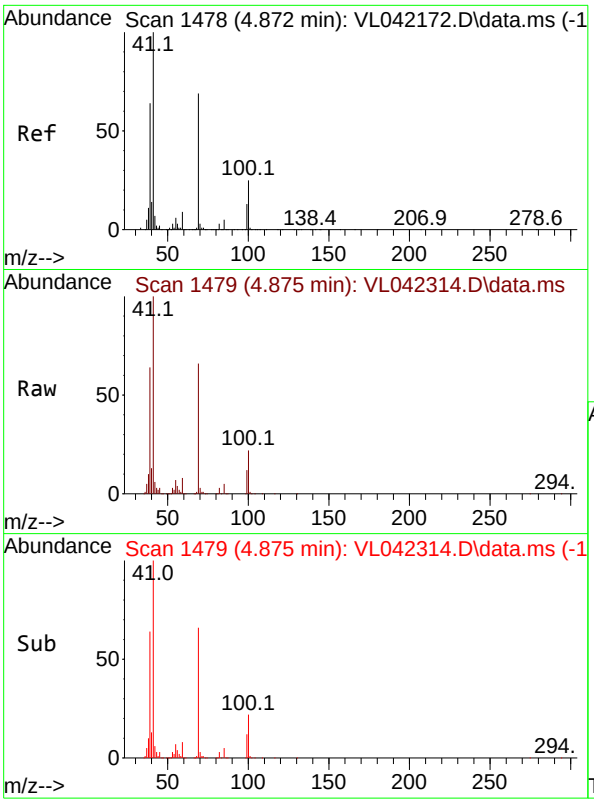



#42
Bromodichloromethane
Concen: 11.669 ppbv
RT: 4.486 min Scan# 1359
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 83 Resp: 405729

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.2 | 50.5 | 75.7 |
| 127 | 8.4 | 5.9 | 8.9 |






#43
Methyl Methacrylate
Concen: 9.514 ppbv
RT: 4.875 min Scan# 14
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 69 Resp: 17742

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 158.3 | 123.8 | 185.6 |
| 100 | 35.3 | 28.4 | 42.6 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
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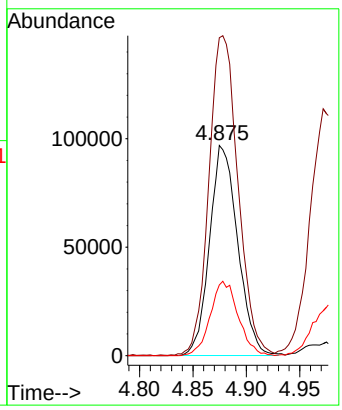
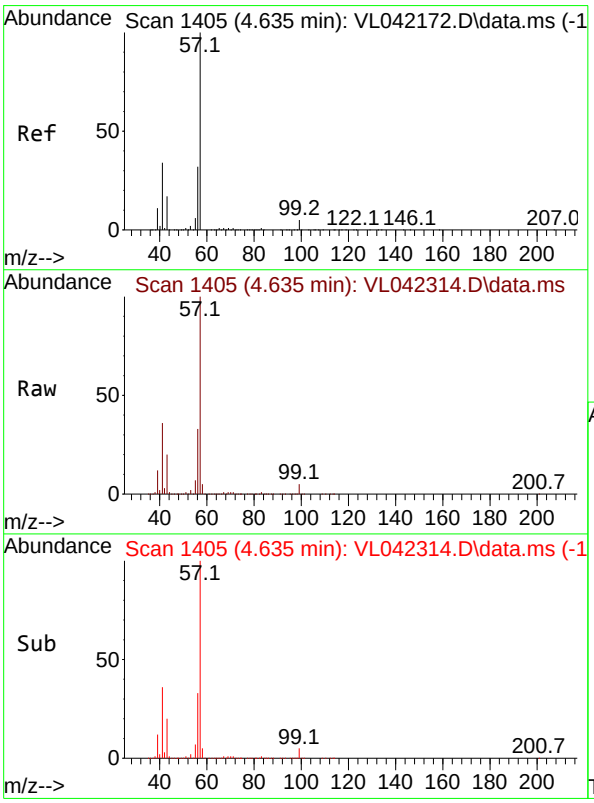
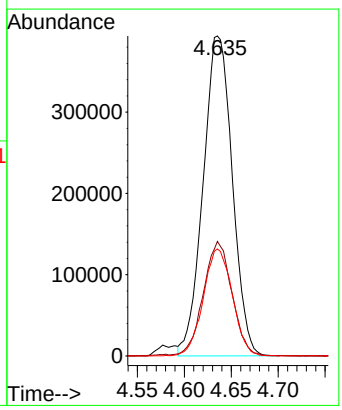


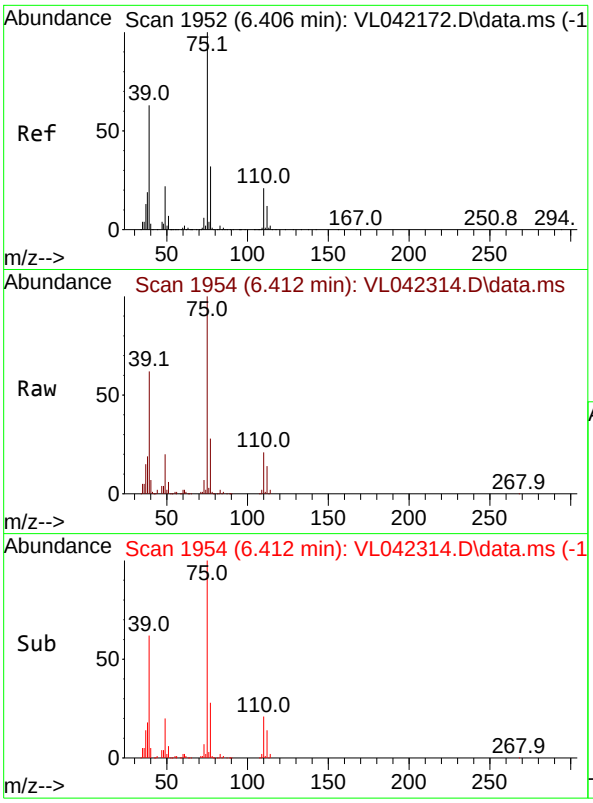




#44
2,2,4-Trimethylpentane
Concen: 11.431 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 57 Resp: 850971

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 35.3 | 26.8 | 40.2 |
| 56 | 33.4 | 25.6 | 38.4 |

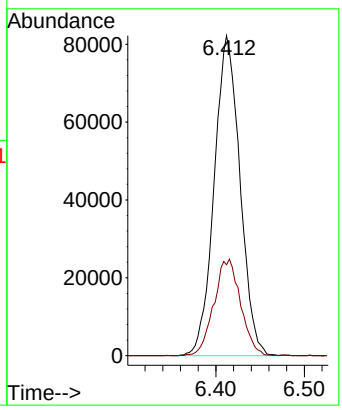





#45
t-1,3-Dichloropropene
Concen: 8.309 ppbv
RT: 6.412 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 75 Resp: 16624

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 28.4 | 26.0 | 39.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

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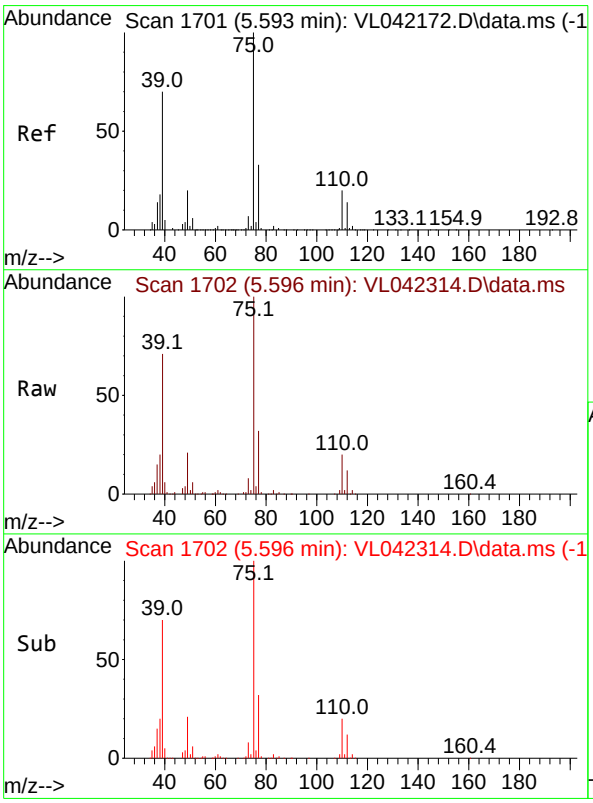
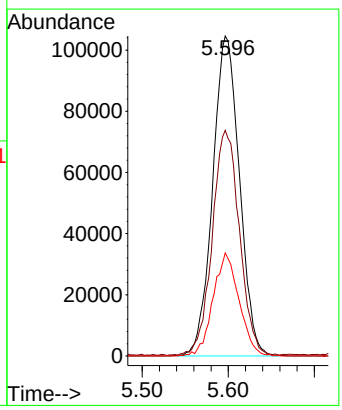
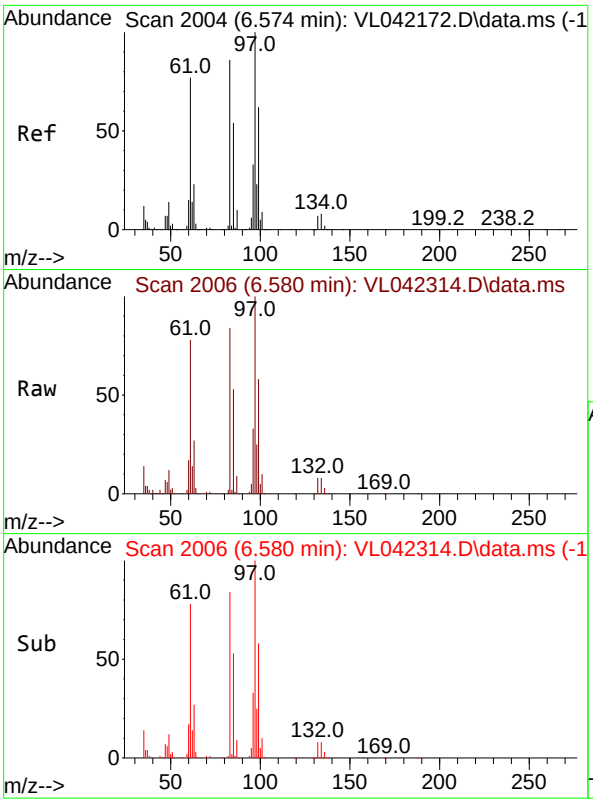



#46
cis-1,3-Dichloropropene
Concen: 9.213 ppbv
RT: 5.596 min Scan# 1702
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 75 Resp: 225952

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 39 | 70.2 | 55.8 | 83.6 |
| 77 | 32.1 | 26.0 | 39.0 |

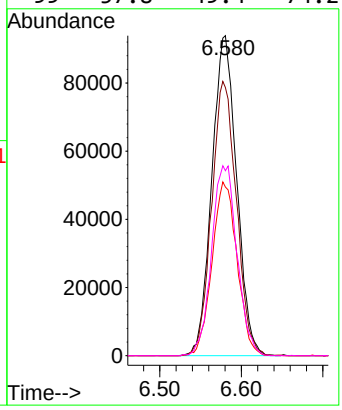





#47
1,1,2-Trichloroethane
Concen: 11.720 ppbv
RT: 6.580 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 97 Resp: 19876

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 83.8 | 69.2 | 103.8 |
| 85 | 52.7 | 43.1 | 64.7 |
| 99 | 57.8 | 49.4 | 74.2 |




**Instrument :**
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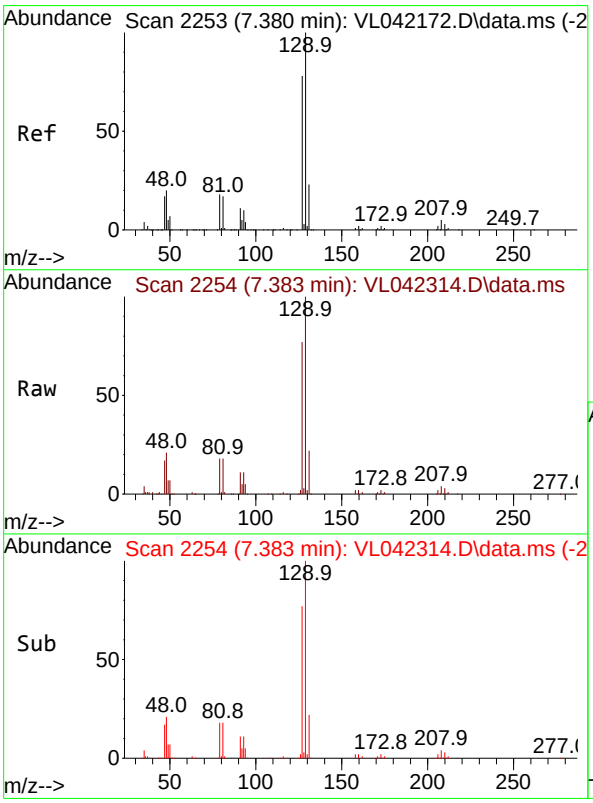
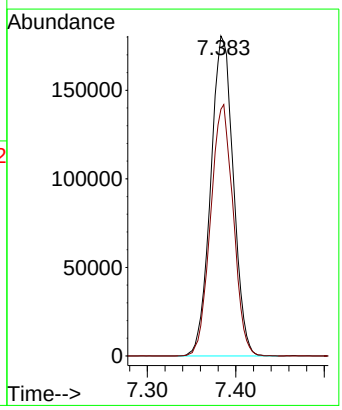
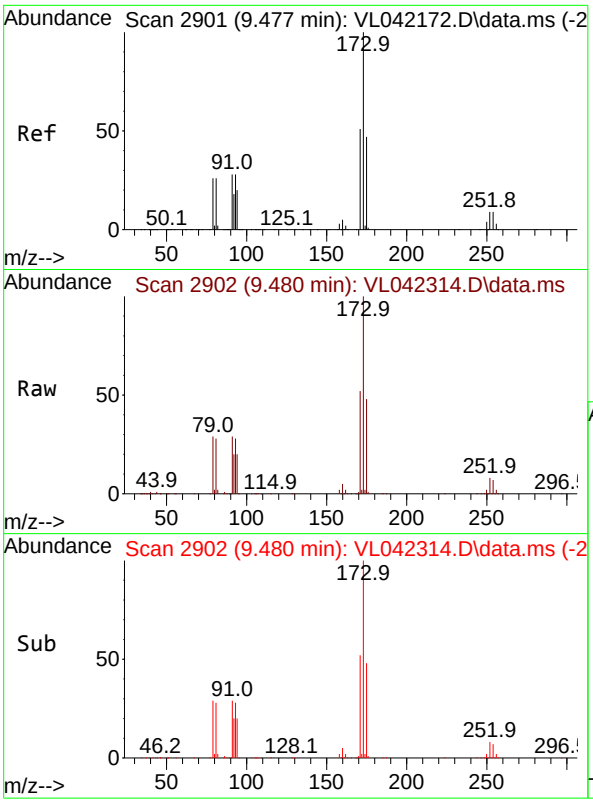



#48
Dibromochloromethane
Concen: 11.181 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion:129 Resp: 321370

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.4 | 39.1 | 117.2 |






#49
Bromoform
Concen: 11.313 ppbv
RT: 9.480 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion:173 Resp: 29190

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.1 | 38.6 | 57.8 |
| 171 | 51.7 | 41.8 | 62.6 |

**Instrument :**
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**ClientSampleId :**
VL0411ABS01

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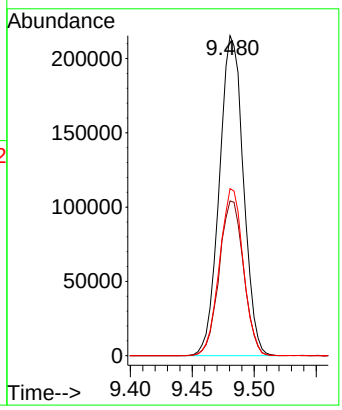
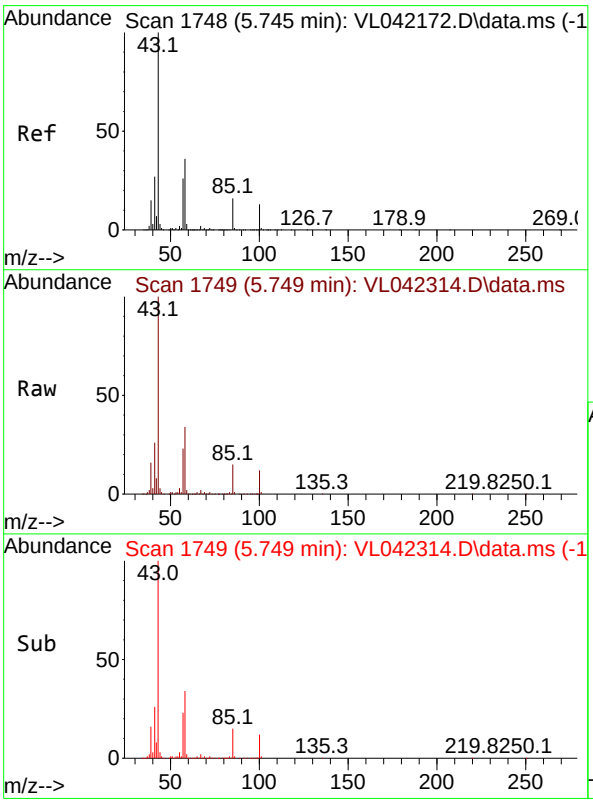
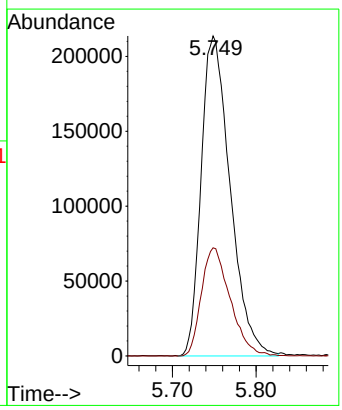


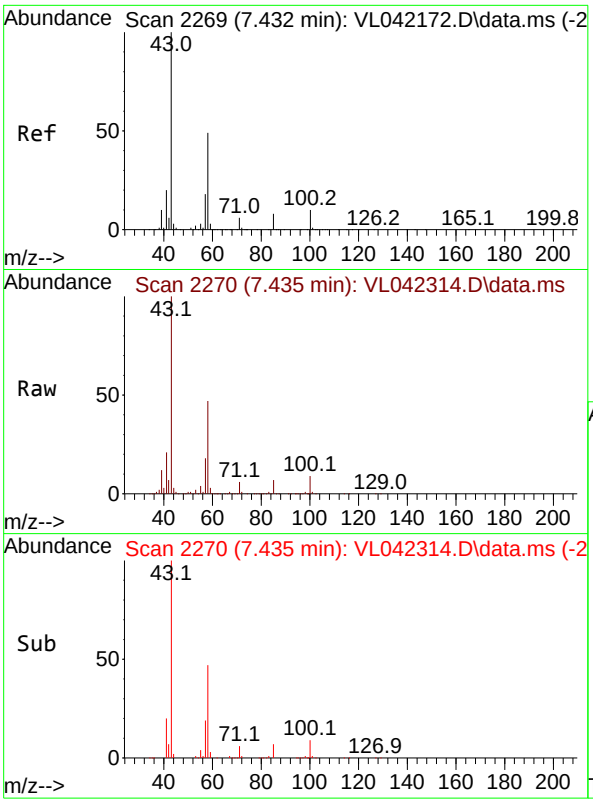




#50
4-Methyl-2-Pentanone
Concen: 10.084 ppbv
RT: 5.749 min Scan# 1749
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 43 Resp: 514910

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 33.6 | 29.0 | 43.6 |

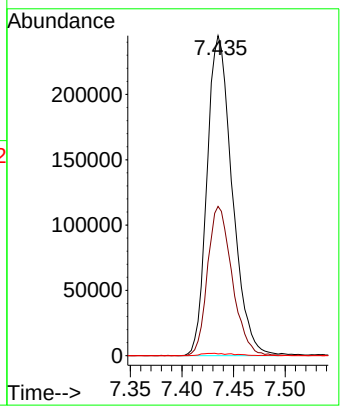





#51
2-Hexanone
Concen: 9.889 ppbv
RT: 7.435 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 43 Resp: 41468

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 45.6 | 39.7 | 59.5 |
| 98 | 1.0 | 0.1 | 0.1 |

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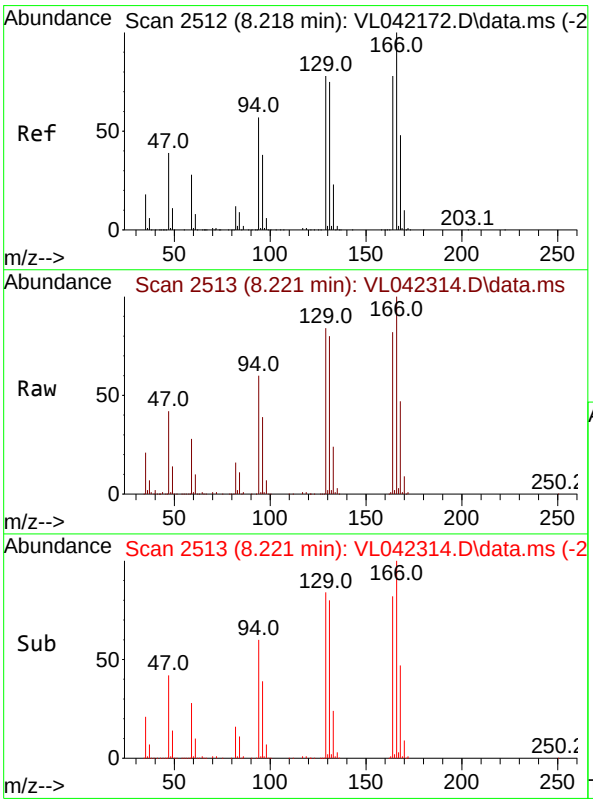
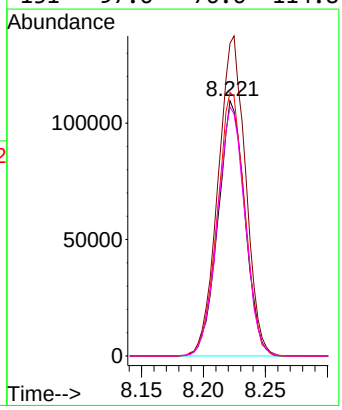
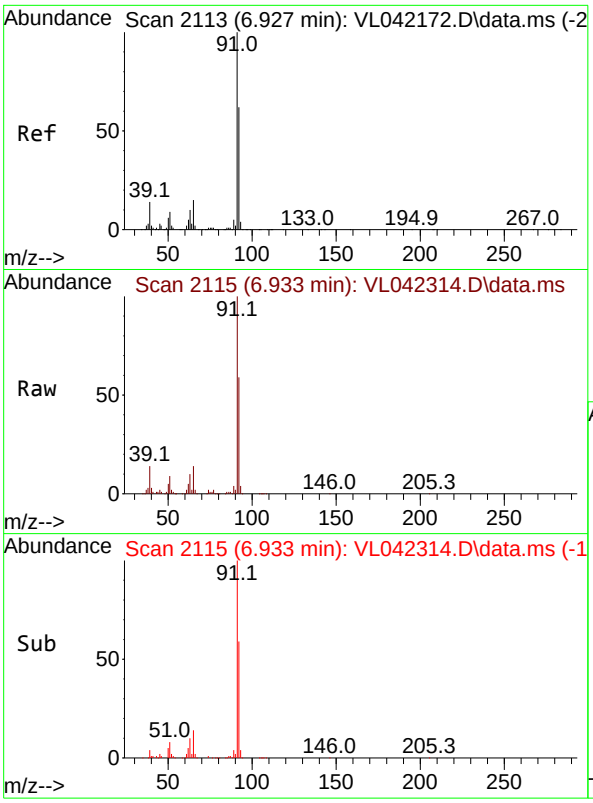



#52
Tetrachloroethene
Concen: 9.483 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion:164 Resp: 165666

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 122.5 | 102.5 | 153.7 |
| 129 | 103.2 | 79.8 | 119.8 |
| 131 | 97.6 | 76.6 | 114.8 |

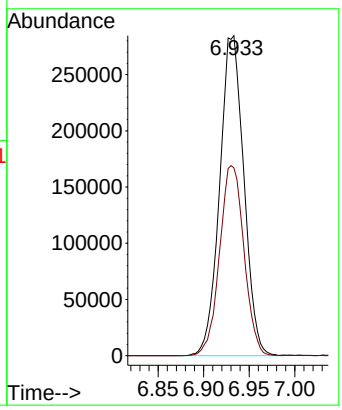





#53
Toluene
Concen: 10.079 ppbv
RT: 6.933 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 91 Resp: 52634

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 59.9 | 48.4 | 72.6 |

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VL0411ABS01

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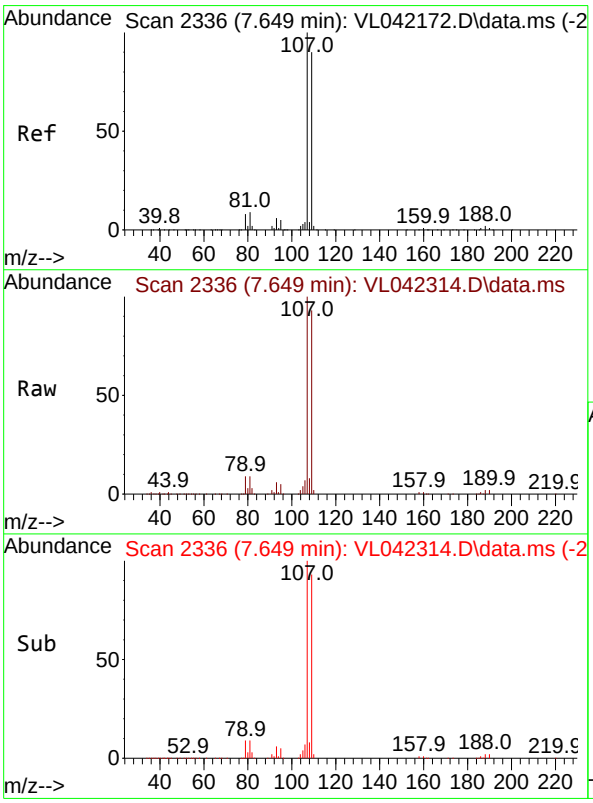
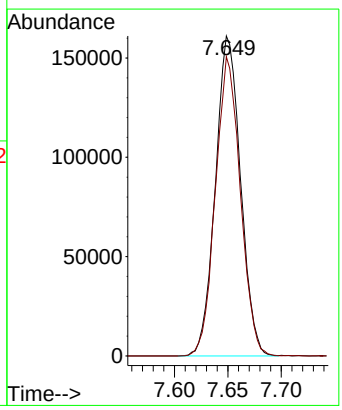
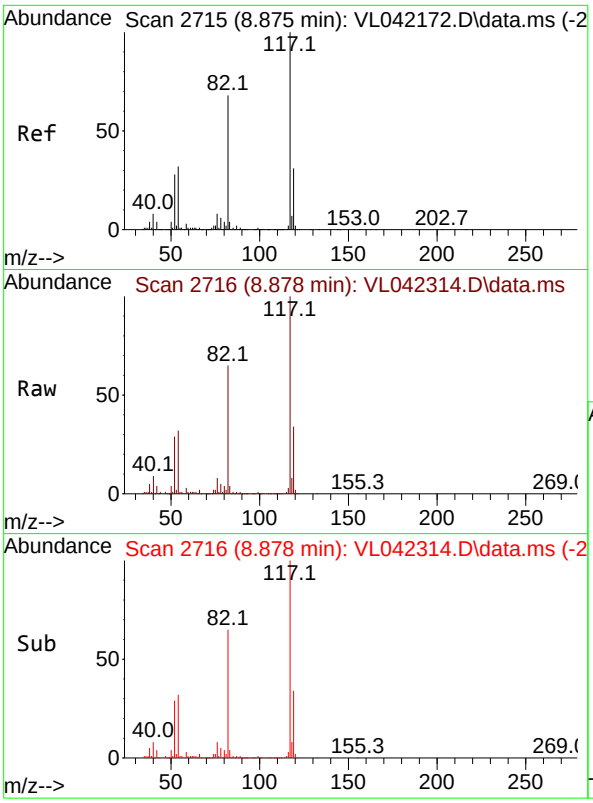



#54
1,2-Dibromoethane
Concen: 11.172 ppbv
RT: 7.649 min Scan# 2336
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion:107 Resp: 264126

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 93.5 | 72.2 | 108.4 |

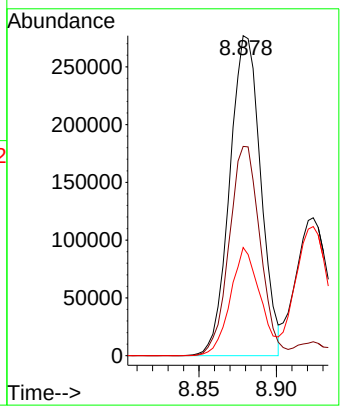





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion:117 Resp: 38606

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 69.5 | 55.8 | 83.6 |
| 119 | 31.8 | 25.5 | 38.3 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

**Manual Integrations**
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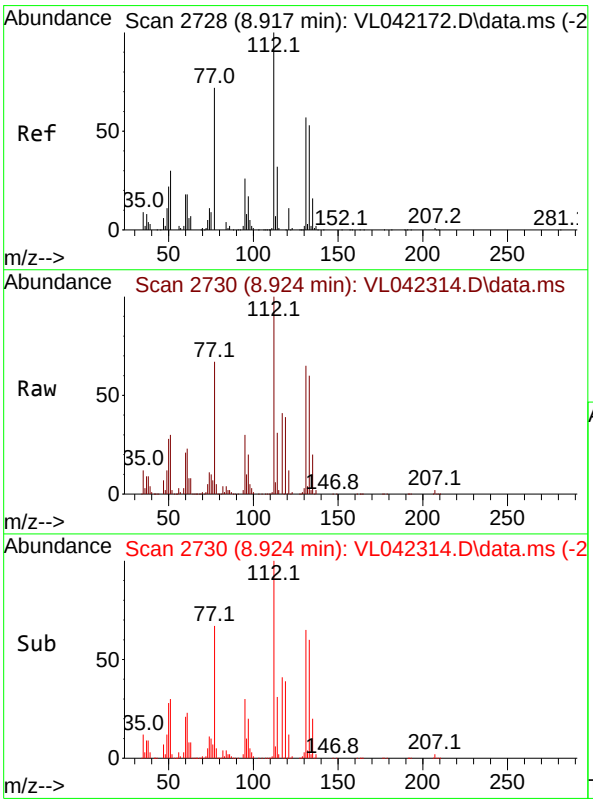
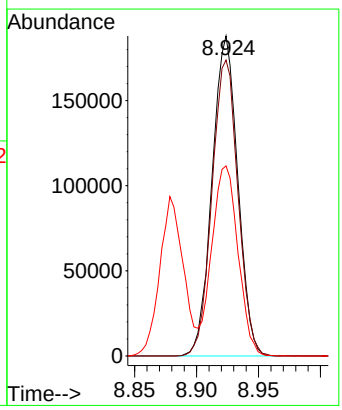
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

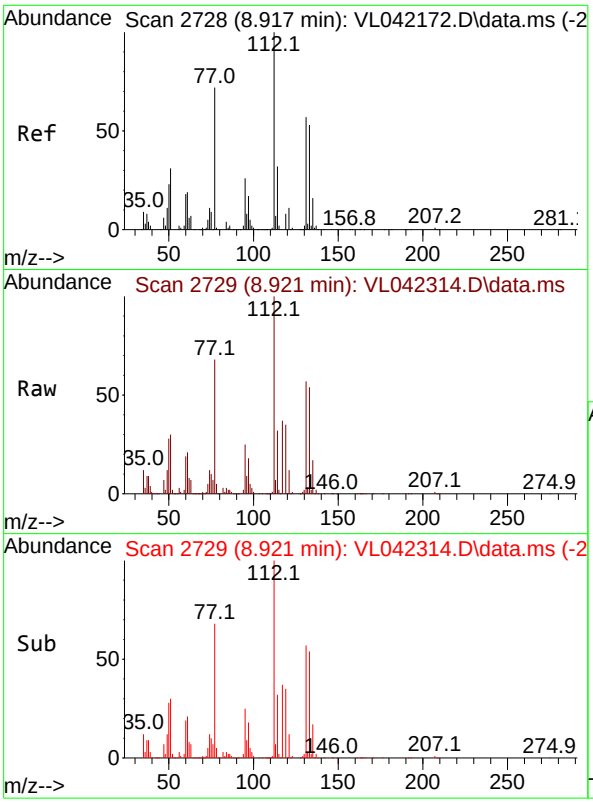



#56
1,1,1,2-Tetrachloroethane
Concen: 12.755 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. 0.006 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion:131 Resp: 271061

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 93.8 | 76.6 | 114.8 |
| 119 | 59.2 | 49.8 | 74.6 |

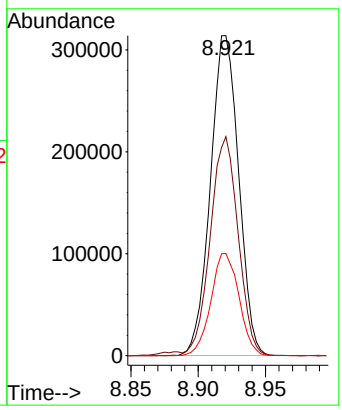





#57
Chlorobenzene
Concen: 12.486 ppbv
RT: 8.921 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion:112 Resp: 45720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 68.4 | 58.2 | 87.2 |
| 114 | 31.9 | 29.1 | 35.5 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

**Manual Integrations**
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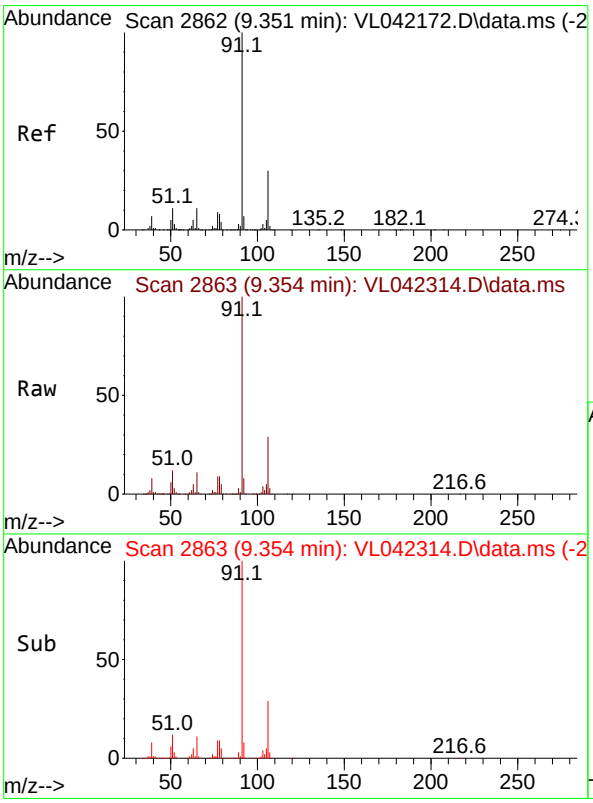
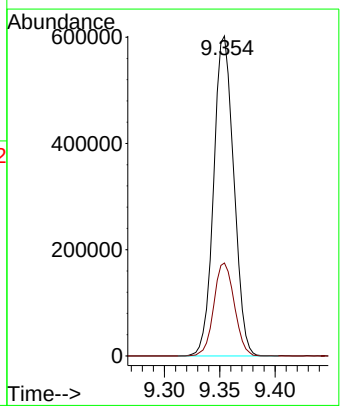
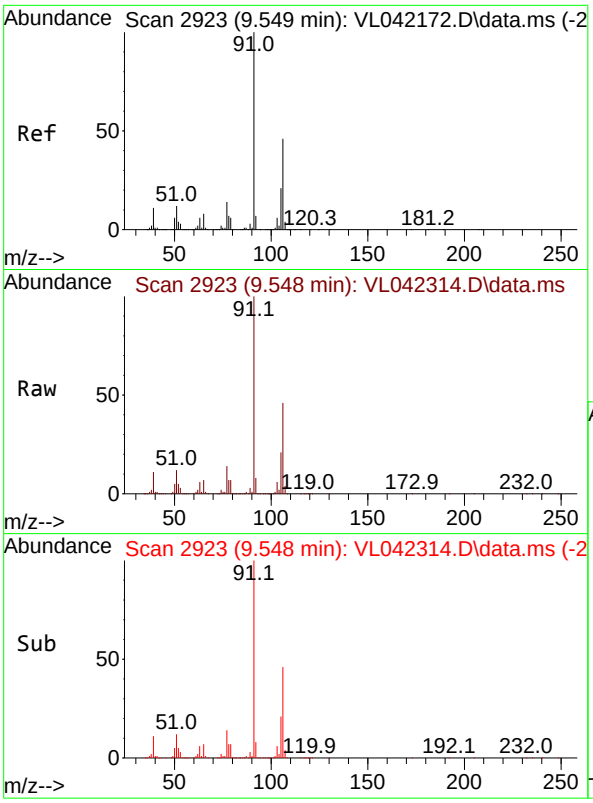



#58
Ethyl Benzene
Concen: 11.105 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 91 Resp: 761549

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.1 | 24.2 | 36.2 |

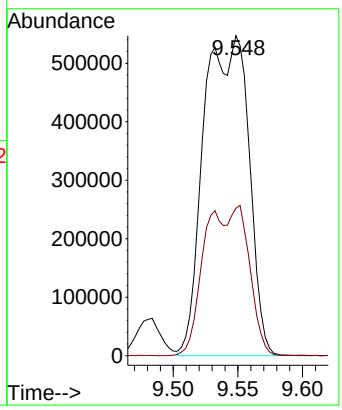





#59
m/p-Xylene
Concen: 24.171 ppbv m
RT: 9.548 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 91 Resp: 132351

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 46.6 | 36.4 | 54.6 |




**Instrument :**
MSVOA_L
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**Manual Integrations**
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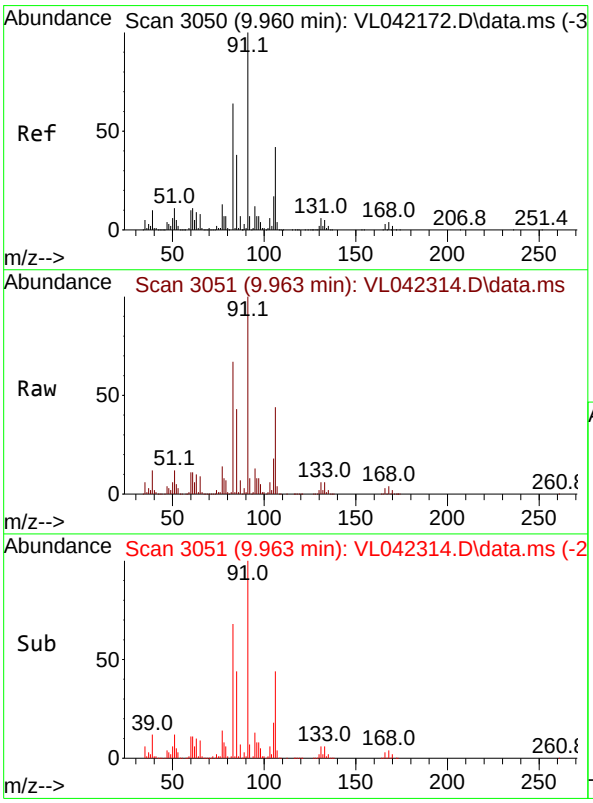
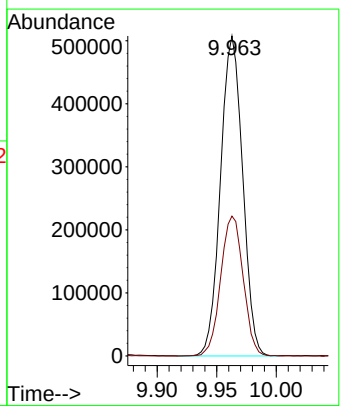
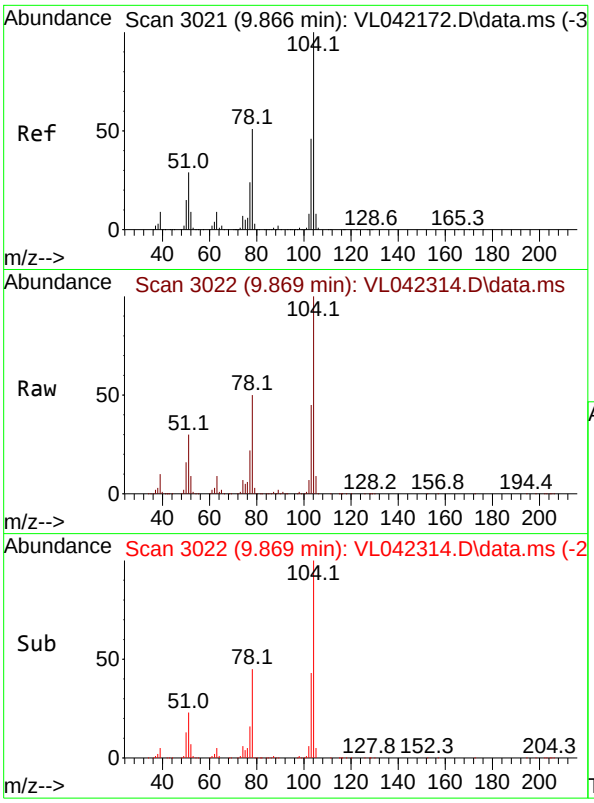



#60
o-Xylene
Concen: 11.929 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 91 Resp: 654791

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 44.4 | 20.8 | 62.5 |

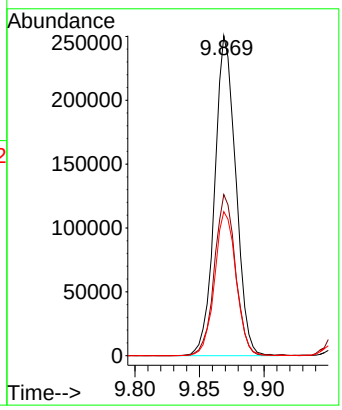





#61
Styrene
Concen: 10.470 ppbv
RT: 9.869 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion:104 Resp: 28431

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 50.5 | 41.8 | 62.6 |
| 103 | 45.9 | 37.0 | 55.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

**Manual Integrations**
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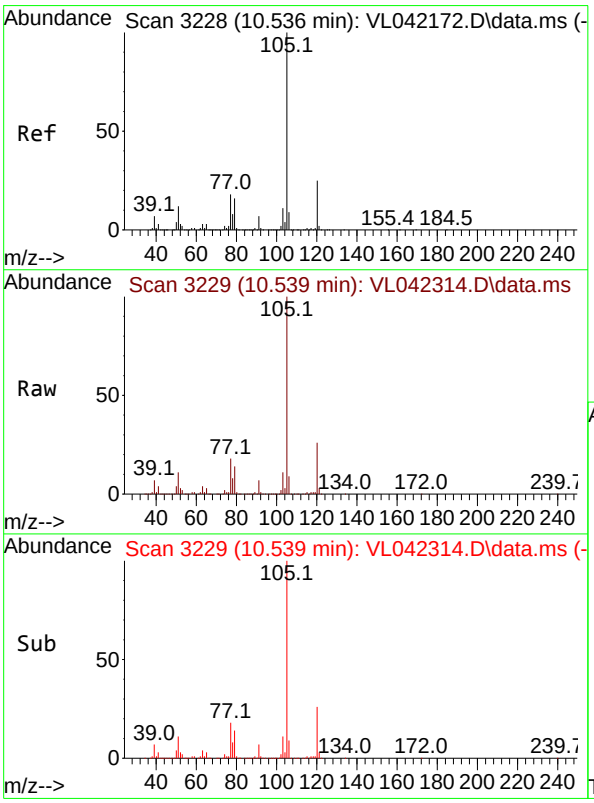
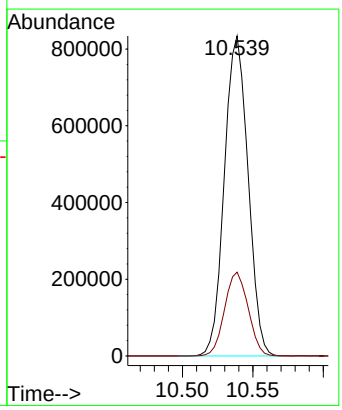
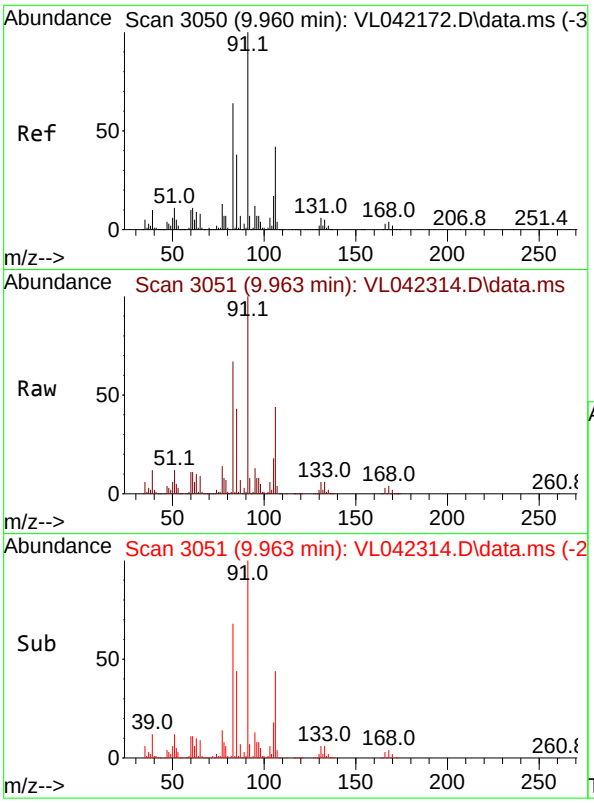



#62
Isopropylbenzene
Concen: 11.887 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion:105 Resp: 975799

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.1 | 19.9 | 29.9 |

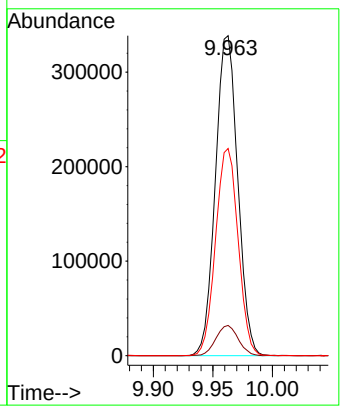





#63
1,1,2,2-Tetrachloroethane
Concen: 13.222 ppbv
RT: 9.963 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 83 Resp: 44097

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.5 | 4.8 | 14.4 |
| 85 | 65.3 | 32.5 | 97.5 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

**Manual Integrations**
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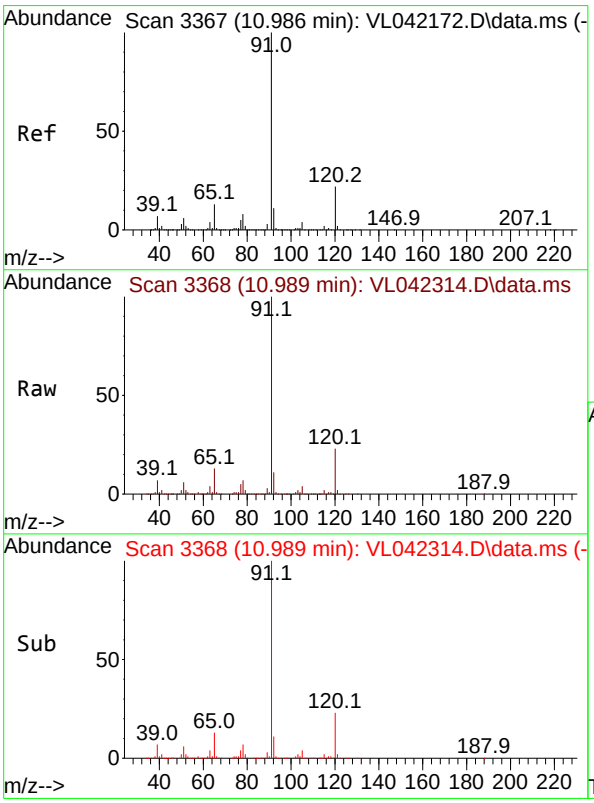
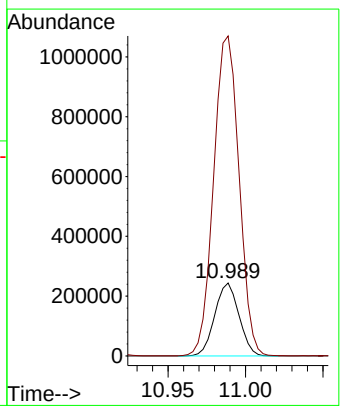
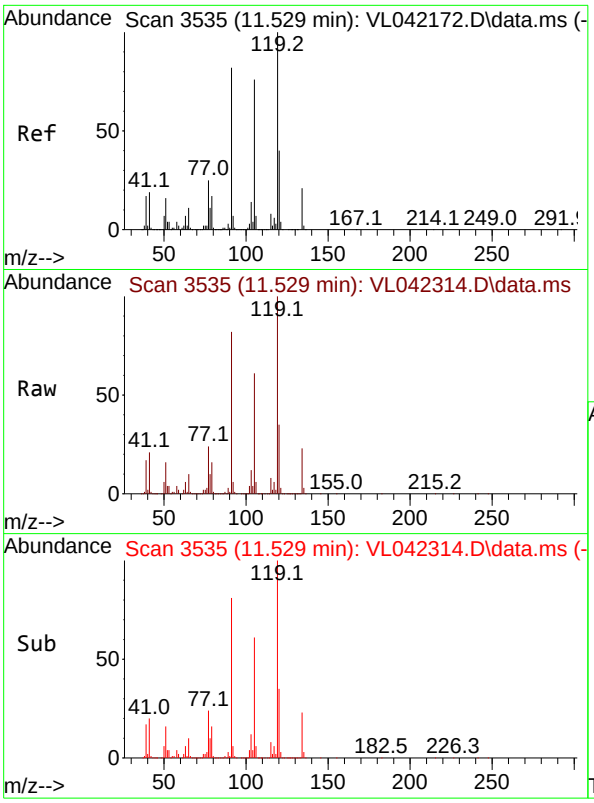



#64
n-propylbenzene
Concen: 12.518 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion:120 Resp: 264518

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 461.4 | 376.9 | 565.3 |






#65
tert-Butylbenzene
Concen: 11.973 ppbv
RT: 11.529 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion:119 Resp: 90894

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 81.4 | 66.0 | 99.0 |
| 134 | 21.7 | 16.7 | 25.1 |

**Instrument :**
MSVOA_L
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VL0411ABS01

**Manual Integrations**
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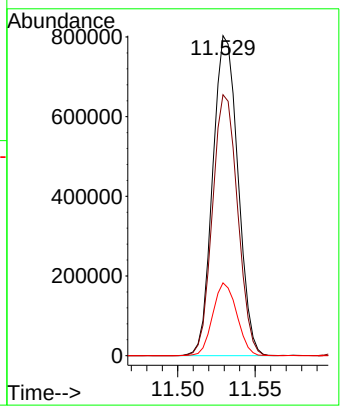
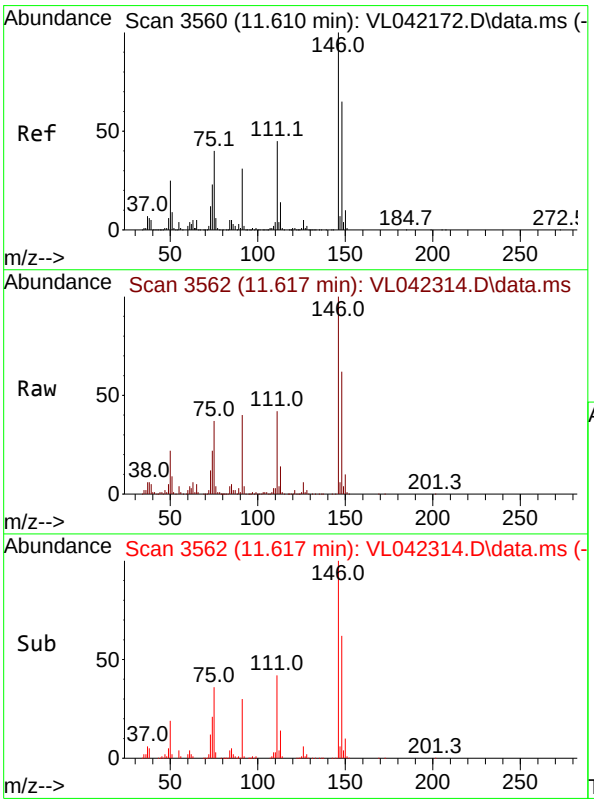
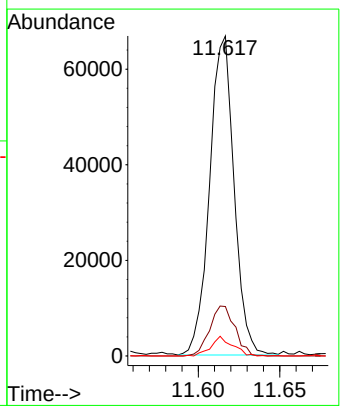


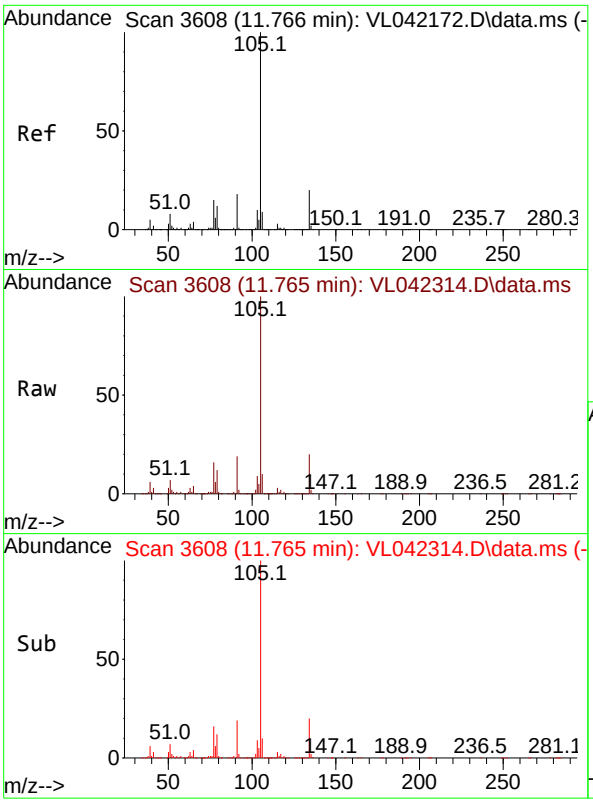




#66
Benzyl Chloride
Concen: 8.634 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.006 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 91 Resp: 69548

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 16.1 | 13.8 | 20.6 |
| 128 | 5.5 | 4.5 | 6.7 |

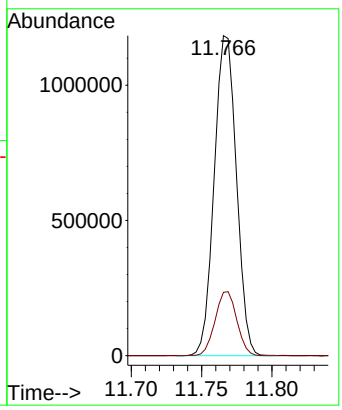





#67
sec-Butylbenzene
Concen: 12.320 ppbv
RT: 11.765 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion:105 Resp: 130009

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.6 | 15.5 | 23.3 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

**Manual Integrations**
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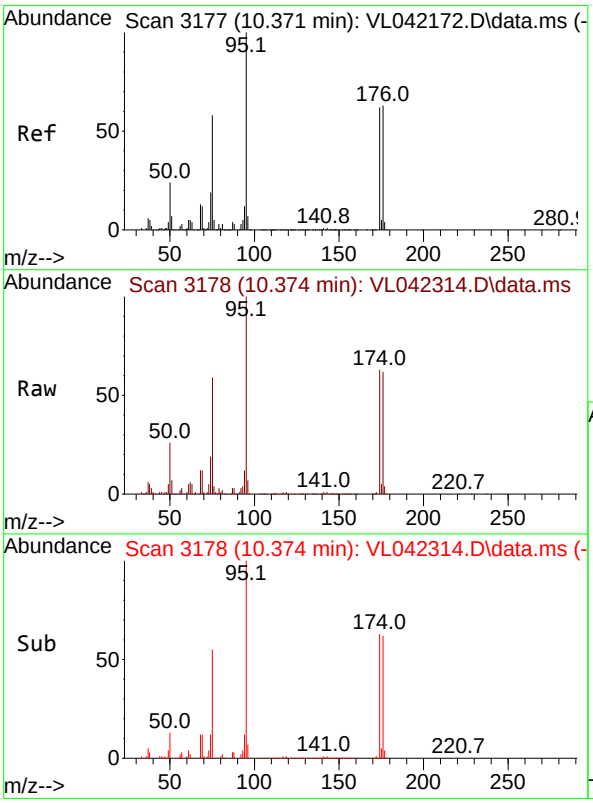
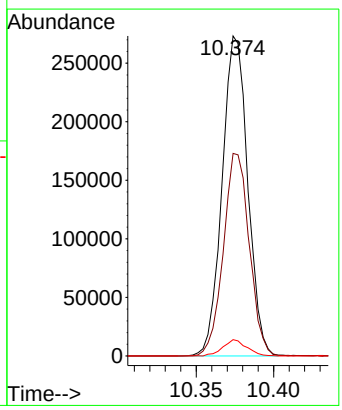
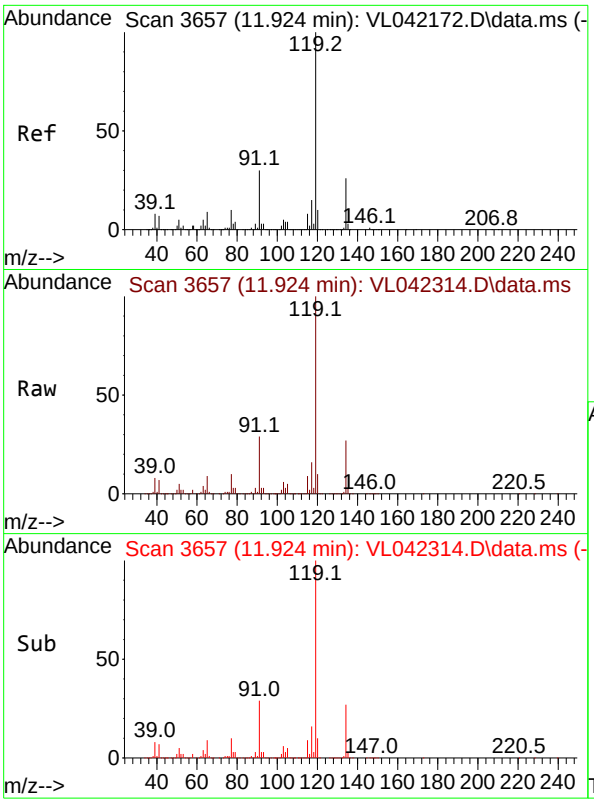



#68
1-Bromo-4-Fluorobenzene
Concen: 9.910 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 95 Resp: 314180

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 64.2 | 50.6 | 76.0 |
| 175 | 4.7 | 3.8 | 5.6 |

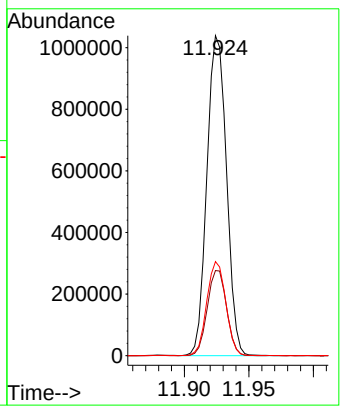





#69
p-Isopropyltoluene
Concen: 12.051 ppbv
RT: 11.924 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion:119 Resp: 109504

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.3 | 20.4 | 30.6 |
| 91 | 28.5 | 23.7 | 35.5 |




**Instrument :**
MSVOA_L
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**Manual Integrations**
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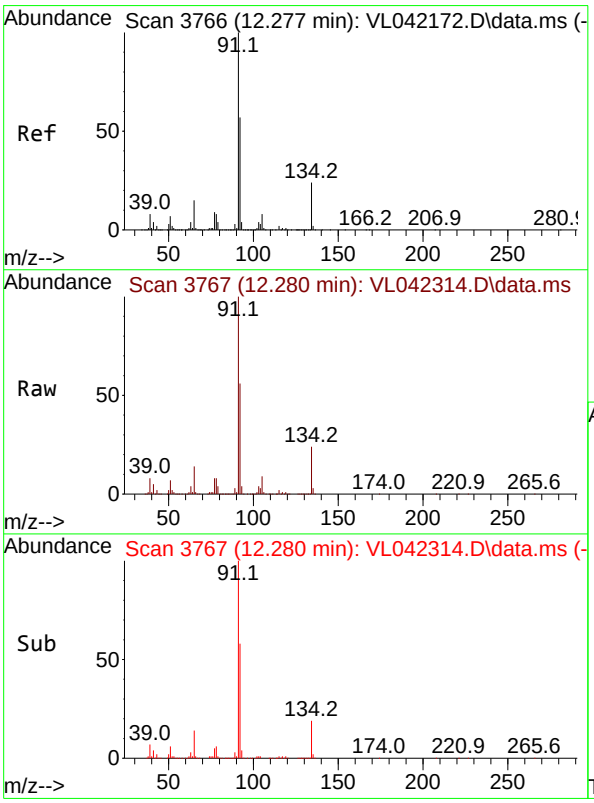
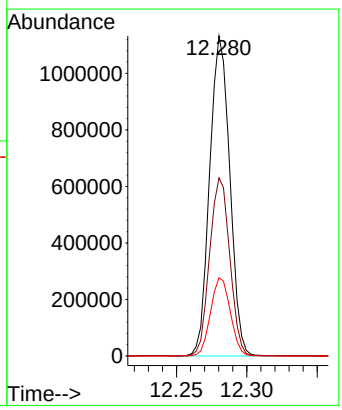
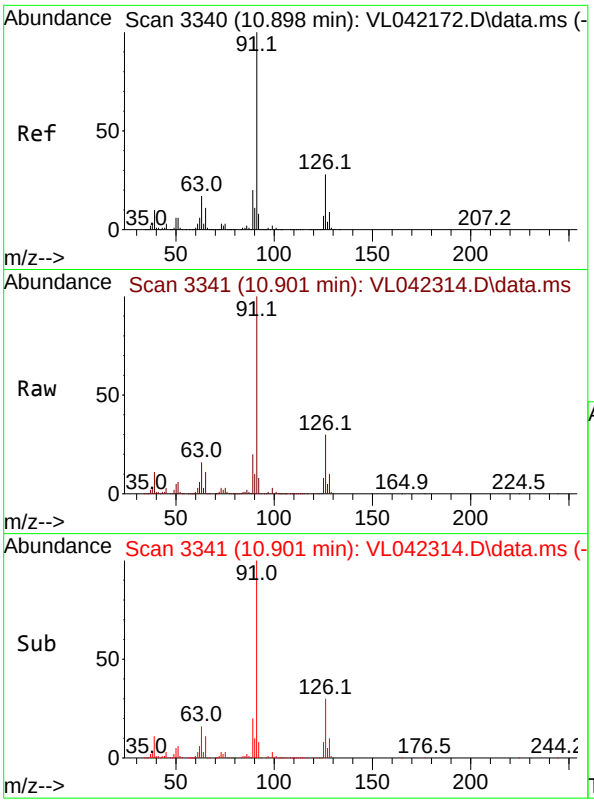



#70
n-Butylbenzene
Concen: 12.159 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 91 Resp: 1129853

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 55.7 | 44.9 | 67.3 |
| 134 | 23.9 | 19.2 | 28.8 |

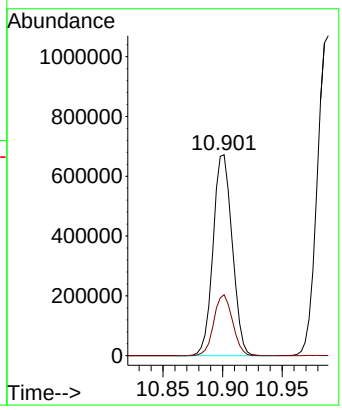





#71
2-Chlorotoluene
Concen: 11.768 ppbv
RT: 10.901 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 91 Resp: 74973

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 29.7 | 11.6 | 46.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

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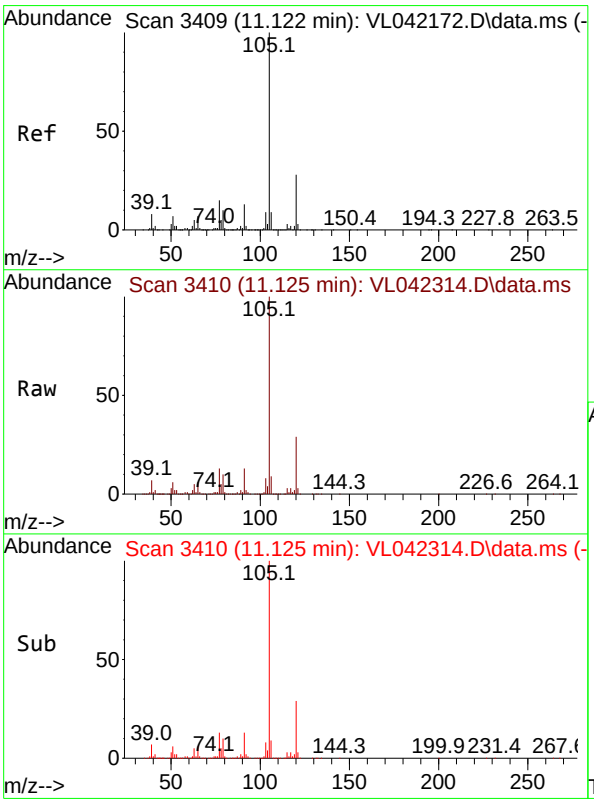
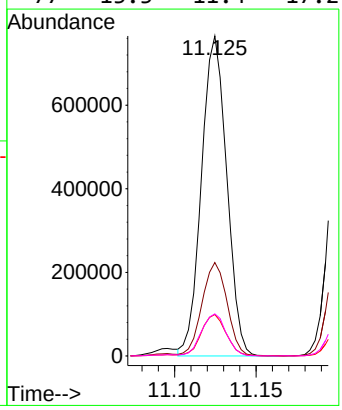
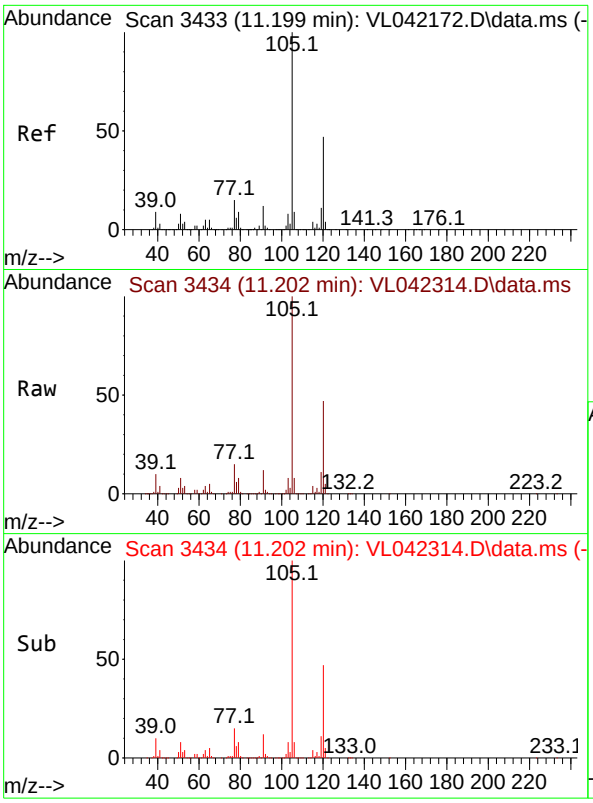



#72
4-Ethyltoluene
Concen: 12.071 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion:105 Resp: 825037

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 29.7 | 23.4 | 35.0 |
| 91 | 13.0 | 10.3 | 15.5 |
| 77 | 13.3 | 11.4 | 17.2 |

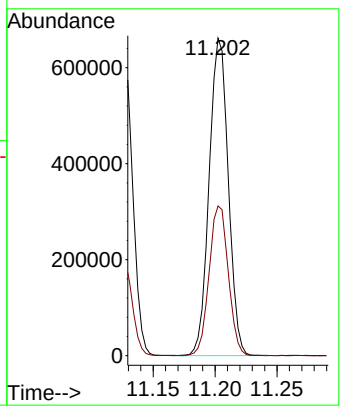





#73
1,3,5-Trimethylbenzene
Concen: 11.914 ppbv
RT: 11.202 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion:105 Resp: 71117

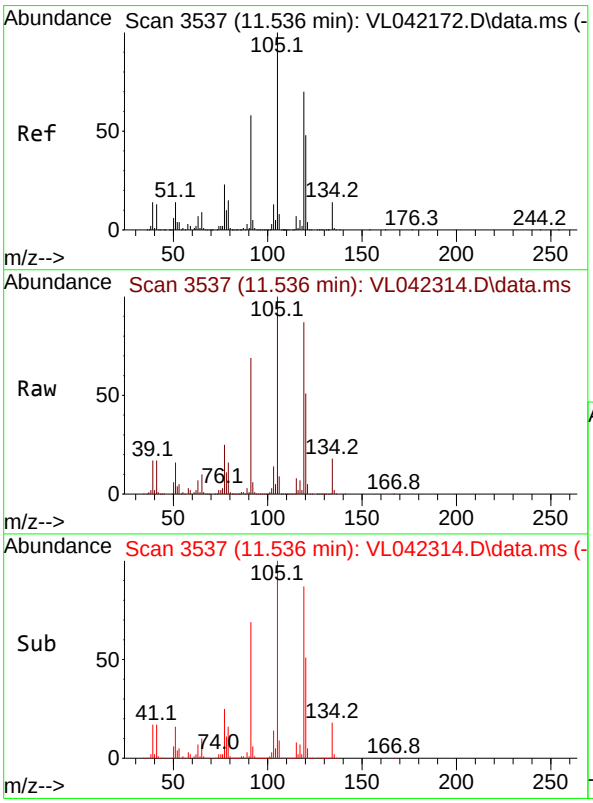
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.2 | 37.4 | 56.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

**Manual Integrations**
**APPROVED**

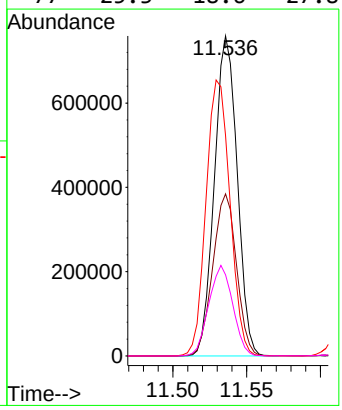
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

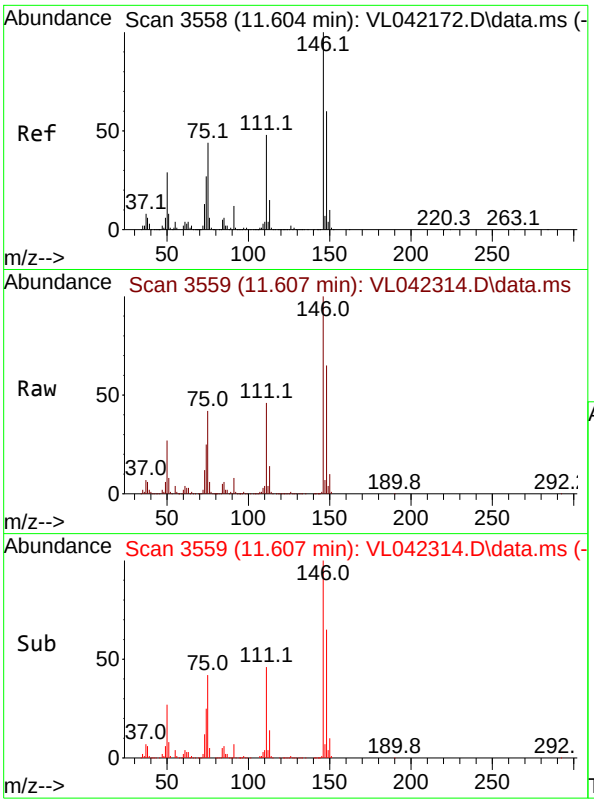



#74
1,2,4-Trimethylbenzene
Concen: 11.873 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion:105 Resp: 816505

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 50.6 | 38.6 | 58.0 |
| 91 | 68.8 | 46.2 | 69.2 |
| 77 | 25.3 | 18.6 | 27.8 |

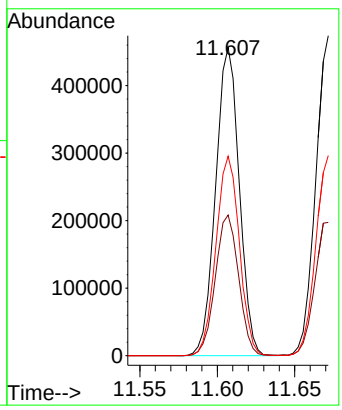





#75
1,3-Dichlorobenzene
Concen: 12.835 ppbv
RT: 11.607 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion:146 Resp: 48409

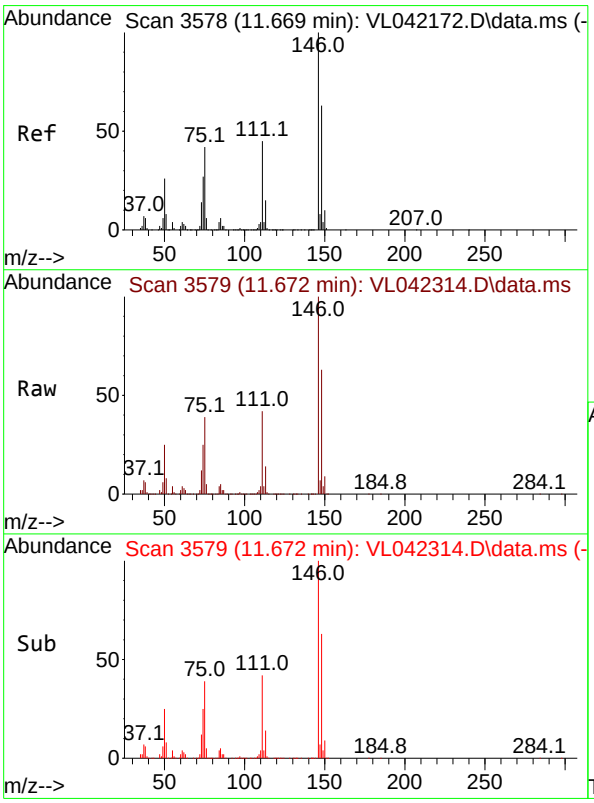
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 45.2 | 23.8 | 71.2 |
| 148 | 64.3 | 31.9 | 95.9 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

**Manual Integrations**
**APPROVED**

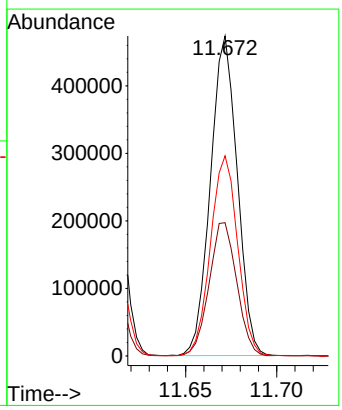
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

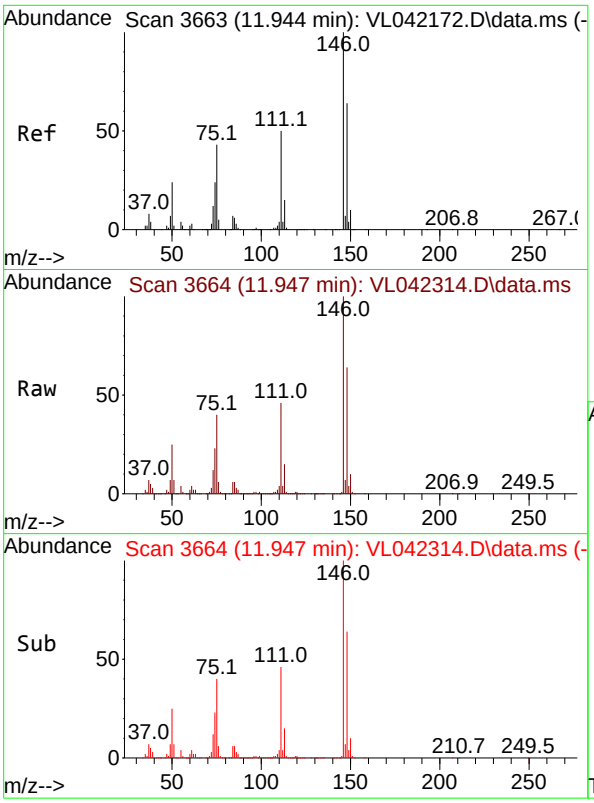



#76
1,4-Dichlorobenzene
Concen: 12.933 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion:146 Resp: 485460

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.1 | 23.0 | 69.0 |
| 148 | 63.7 | 31.9 | 95.7 |

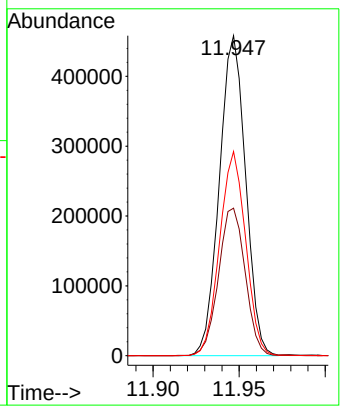





#77
1,2-Dichlorobenzene
Concen: 13.218 ppbv
RT: 11.947 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion:146 Resp: 48542

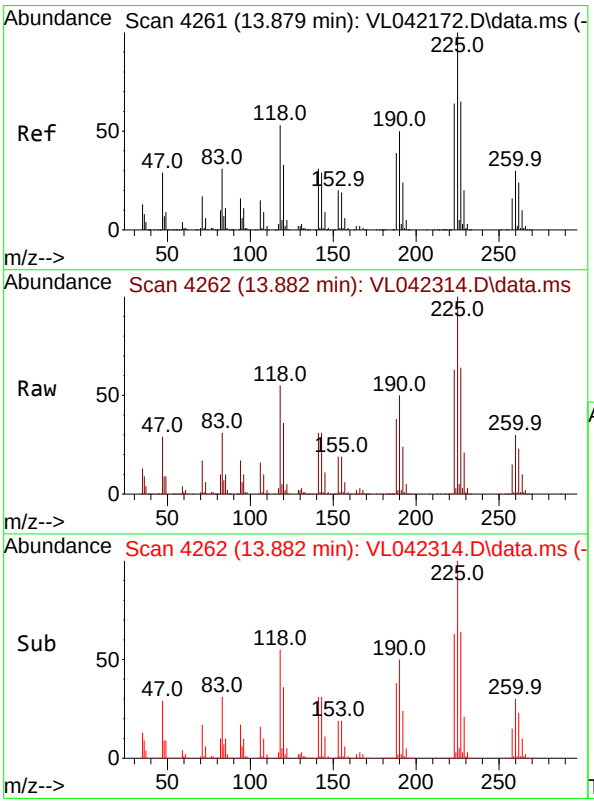
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 47.1 | 24.8 | 74.3 |
| 148 | 63.5 | 31.6 | 94.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

**Manual Integrations**
**APPROVED**

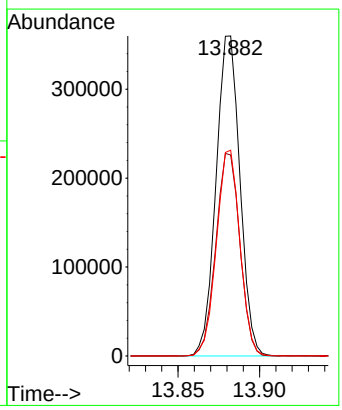
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

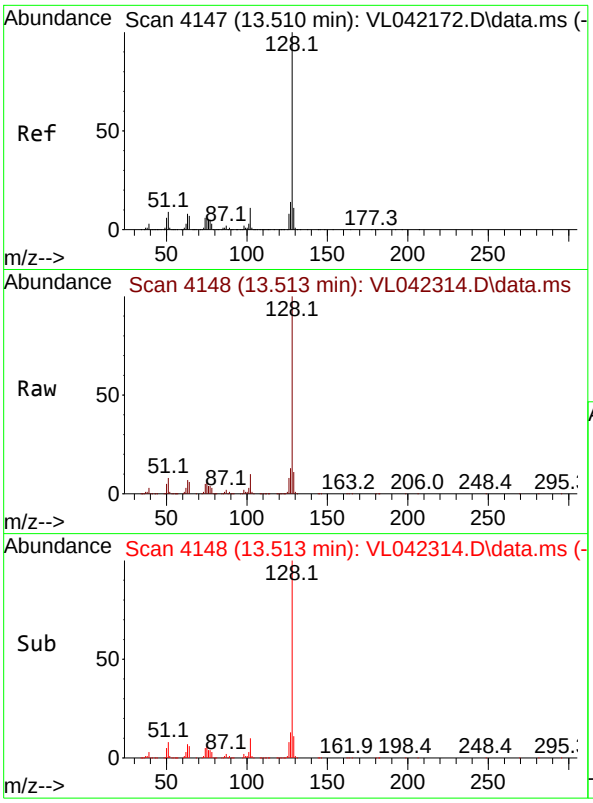



#78
Hexachloro-1,3-Butadiene
Concen: 9.814 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion:225 Resp: 366850

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.5 | 50.6 | 76.0 |
| 227 | 63.2 | 51.2 | 76.8 |

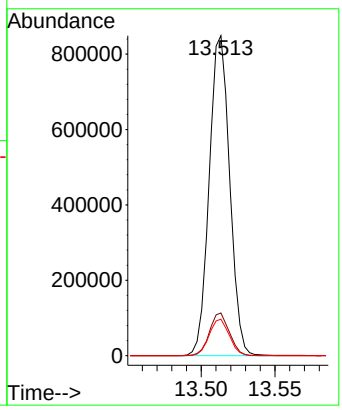





#79
Naphthalene
Concen: 10.904 ppbv
RT: 13.513 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion:128 Resp: 82020

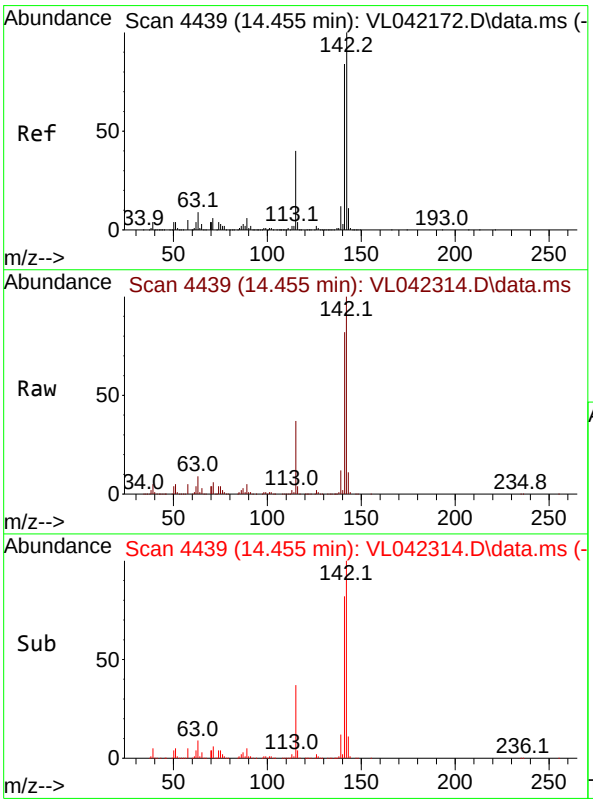
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.3 | 10.8 | 16.2 |
| 129 | 11.4 | 9.0 | 13.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

**Manual Integrations**
**APPROVED**

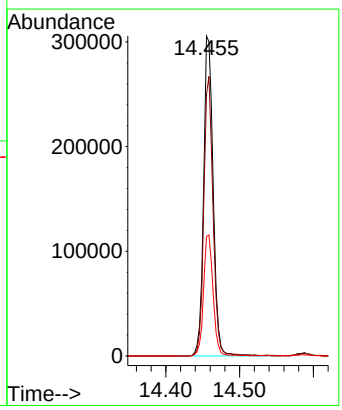
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

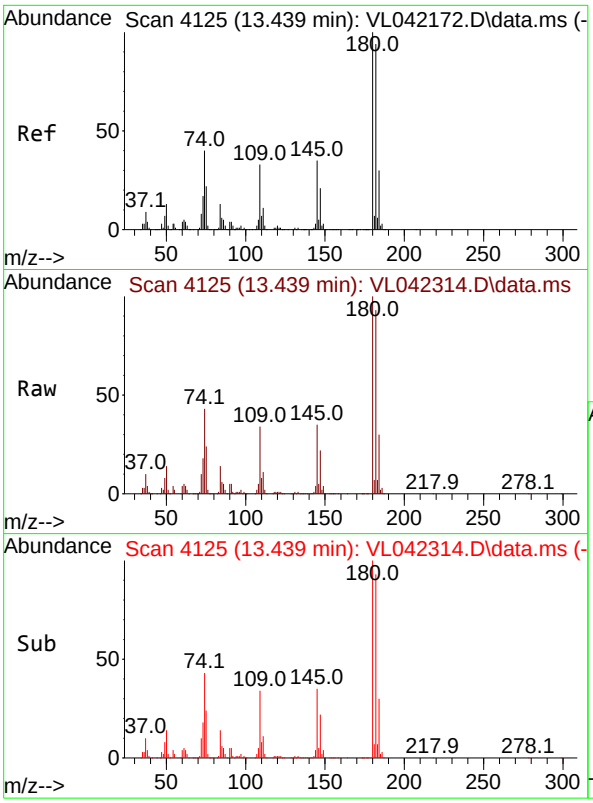



#80
Naphthalene,2-methyl-
Concen: 7.434 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion:142 Resp: 274227

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 84.7 | 66.3 | 99.5 |
| 115 | 37.9 | 31.6 | 47.4 |

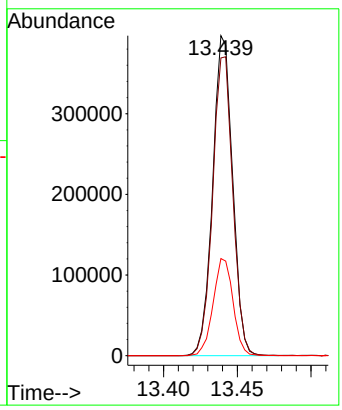





#81
1,2,4-Trichlorobenzene
Concen: 10.762 ppbv
RT: 13.439 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion:180 Resp: 37340

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.7 | 75.1 | 112.7 |
| 184 | 30.3 | 24.4 | 36.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | |
| Client Sample ID: | VL0415ABS01 | SDG No.: | Q1665 |
| Lab Sample ID: | VL0415ABS01 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042328.D | 1 | | 04/15/25 12:54 | VL041525 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 8.40 | 41.5 | | 1.04 | 2.47 | ug/m3 |
| 64-17-5 | Ethanol | 3.90 | 7.35 | | 0.60 | 0.94 | ug/m3 |
| 74-87-3 | Chloromethane | 8.50 | 17.6 | | 0.21 | 1.03 | ug/m3 |
| 75-01-4 | Vinyl Chloride | 7.50 | 19.2 | | 0.030 | 0.080 | ug/m3 |
| 74-83-9 | Bromomethane | 7.70 | 29.9 | | 0.54 | 1.94 | ug/m3 |
| 75-00-3 | Chloroethane | 7.90 | 20.9 | | 0.45 | 1.32 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | 9.40 | 27.7 | | 0.38 | 1.47 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | 8.20 | 46.1 | | 0.90 | 2.81 | ug/m3 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 7.60 | 58.3 | | 1.23 | 3.83 | ug/m3 |
| 76-14-2 | Dichlorotetrafluoroethane | 8.20 | 57.3 | | 0.63 | 3.49 | ug/m3 |
| 593-60-2 | Bromoethene | 7.40 | 32.4 | | 0.52 | 2.19 | ug/m3 |
| 75-65-0 | tert-Butyl alcohol | 6.80 | 20.6 | | 0.58 | 1.52 | ug/m3 |
| 142-82-5 | Heptane | 8.50 | 34.8 | | 0.45 | 2.05 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | 7.40 | 18.2 | | 0.17 | 1.23 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethene | 7.30 | 28.9 | | 0.56 | 1.98 | ug/m3 |
| 67-64-1 | Acetone | 7.40 | 17.6 | | 0.57 | 1.19 | ug/m3 |
| 75-15-0 | Carbon Disulfide | 7.40 | 23.0 | | 0.50 | 1.56 | ug/m3 |
| 1634-04-4 | Methyl tert-Butyl Ether | 7.20 | 26.0 | | 0.43 | 1.80 | ug/m3 |
| 75-09-2 | Methylene Chloride | 6.70 | 23.3 | | 0.66 | 1.74 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethene | 7.20 | 28.6 | | 0.75 | 1.98 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | 8.30 | 33.6 | | 0.53 | 2.02 | ug/m3 |
| 110-82-7 | Cyclohexane | 7.90 | 27.2 | | 0.76 | 1.72 | ug/m3 |
| 78-93-3 | 2-Butanone | 9.30 | 27.4 | | 0.35 | 1.47 | ug/m3 |
| 56-23-5 | Carbon Tetrachloride | 9.10 | 57.2 | | 0.060 | 0.19 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethene | 8.10 | 32.1 | | 0.36 | 1.98 | ug/m3 |
| 67-66-3 | Chloroform | 8.80 | 43.0 | | 0.39 | 2.44 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | 7.50 | 40.9 | | 0.050 | 0.16 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | 9.50 | 44.4 | | 0.47 | 2.34 | ug/m3 |
| 71-43-2 | Benzene | 9.30 | 29.7 | | 0.29 | 1.60 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | 9.30 | 37.6 | | 0.36 | 2.02 | ug/m3 |
| 79-01-6 | Trichloroethene | 9.00 | 48.4 | | 0.11 | 0.16 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | 9.30 | 43.0 | | 0.51 | 2.31 | ug/m3 |
| 75-27-4 | Bromodichloromethane | 9.40 | 63.0 | | 0.54 | 3.35 | ug/m3 |
| 108-10-1 | 4-Methyl-2-Pentanone | 8.40 | 34.4 | | 0.37 | 2.05 | ug/m3 |
| 108-88-3 | Toluene | 8.60 | 32.4 | | 0.41 | 1.88 | ug/m3 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | |
| Client Sample ID: | VL0415ABS01 | SDG No.: | Q1665 |
| Lab Sample ID: | VL0415ABS01 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042328.D | 1 | | 04/15/25 12:54 | VL041525 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 7.20 | 32.7 | | 0.27 | 2.27 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | 7.80 | 35.4 | | 0.27 | 2.27 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | 9.60 | 52.4 | | 0.38 | 2.73 | ug/m3 |
| 124-48-1 | Dibromochloromethane | 9.30 | 79.2 | | 0.60 | 4.26 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane | 9.10 | 69.9 | | 0.54 | 0.77 | ug/m3 |
| 127-18-4 | Tetrachloroethene | 8.00 | 54.3 | | 0.14 | 0.20 | ug/m3 |
| 108-90-7 | Chlorobenzene | 9.70 | 44.7 | | 0.37 | 2.30 | ug/m3 |
| 100-41-4 | Ethyl Benzene | 8.70 | 37.8 | | 0.52 | 2.17 | ug/m3 |
| 179601-23-1 | m/p-Xylene | 18.5 | 80.4 | | 0.91 | 4.34 | ug/m3 |
| 95-47-6 | o-Xylene | 9.10 | 39.5 | | 0.52 | 2.17 | ug/m3 |
| 100-42-5 | Styrene | 8.20 | 34.9 | | 0.47 | 2.13 | ug/m3 |
| 75-25-2 | Bromoform | 9.20 | 95.1 | | 0.62 | 5.17 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10.2 | 70.0 | | 0.070 | 0.21 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | 9.00 | 46.6 | | 0.57 | 2.59 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 9.10 | 44.7 | | 0.54 | 2.46 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 8.90 | 43.8 | | 0.39 | 2.46 | ug/m3 |
| 541-73-1 | 1,3-Dichlorobenzene | 9.80 | 58.9 | | 0.48 | 3.01 | ug/m3 |
| 106-46-7 | 1,4-Dichlorobenzene | 9.90 | 59.5 | | 0.30 | 3.01 | ug/m3 |
| 95-50-1 | 1,2-Dichlorobenzene | 10.2 | 61.3 | | 0.48 | 3.01 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 9.60 | 71.3 | | 0.67 | 3.71 | ug/m3 |
| 87-68-3 | Hexachloro-1,3-Butadiene | 8.10 | 86.4 | | 0.96 | 5.33 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | 7.60 | 16.8 | | 0.29 | 1.11 | ug/m3 |
| 91-20-3 | Naphthalene | 10.0 | 52.4 | | 0.42 | 0.52 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | 9.20 | 45.2 | | 0.59 | 2.46 | ug/m3 |
| 110-54-3 | Hexane | 8.50 | 30.0 | | 0.39 | 1.76 | ug/m3 |
| 107-05-1 | Allyl Chloride | 7.50 | 23.5 | | 0.47 | 1.57 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | 8.10 | 29.2 | | 0.76 | 1.80 | ug/m3 |
| 80-62-6 | Methyl Methacrylate | 8.10 | 33.2 | | 0.37 | 2.05 | ug/m3 |
| **SURROGATES** | | | | | | | |
| 460-00-4 | 1-Bromo-4-Fluorobenzene | 9.70 | | | 70 (65) - 130 (135) | 97% | SPK: 10 |
| **INTERNAL STANDARDS** | | | | | | | |
| 74-97-5 | Bromochloromethane | 172000 | | 2.81 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 445000 | | 3.994 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 400000 | | 8.917 | | | |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | |
| Client Sample ID: | VL0415ABS01 | SDG No.: | Q1665 |
| Lab Sample ID: | VL0415ABS01 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042328.D | 1 | | 04/15/25 12:54 | VL041525 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
Data File : VL042328.D
Acq On : 15 Apr 2025 12:54
Operator : SY/MD
Sample : VL0415ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 16 01:30:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.810 | 49 | 171986 | 10.000 | ppbv | 0.03 |
| 33) 1,4-Difluorobenzene | 3.994 | 114 | 444595 | 10.000 | ppbv | 0.04 |
| 55) Chlorobenzene-d5 | 8.917 | 117 | 399604 | 10.000 | ppbv | 0.04 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.406 | 95 | 318902 | 9.718 | ppbv | 0.04 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 97.200% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.509 | 85 | 214241 | 8.437 | ppbv | 99 |
| 3) Chlorodifluoromethane | 1.486 | 51 | 234966 | 9.058 | ppbv | 97 |
| 4) Chloromethane | 1.541 | 50 | 88230 | 8.502 | ppbv | 98 |
| 5) Vinyl Chloride | 1.589 | 62 | 82221 | 7.476 | ppbv | 94 |
| 6) Bromomethane | 1.680 | 94 | 36050 | 7.665 | ppbv | 100 |
| 7) Chloroethane | 1.716 | 64 | 33039 | 7.931 | ppbv | 97 |
| 8) Dichlorotetrafluoroethane | 1.564 | 85 | 178173 | 8.239 | ppbv | 95 |
| 9) Propene | 1.492 | 41 | 94136 | 7.917 | ppbv | 99 |
| 10) Heptane | 5.027 | 43 | 267288 | 8.451 | ppbv | 99 |
| 11) Trichlorofluoromethane | 1.890 | 101 | 201665 | 8.162 | ppbv | 99 |
| 12) 1,1,2-Trichlorotrifluo... | 2.156 | 101 | 154306 | 7.598 | ppbv | 98 |
| 13) Ethanol | 1.732 | 45 | 4407 | 3.921 | ppbv | 97 |
| 14) Bromoethene | 1.793 | 108 | 57635 | 7.408 | ppbv | 99 |
| 15) Acetone | 1.848 | 43 | 178724 | 7.430 | ppbv | 96 |
| 16) 1,3-Butadiene | 1.619 | 39 | 89479 | 7.617 | ppbv | 96 |
| 17) tert-Butyl alcohol | 2.055 | 59 | 202421 | 6.757 | ppbv | 99 |
| 18) 1,1-Dichloroethene | 2.049 | 96 | 69013 | 7.269 | ppbv | 97 |
| 19) Isopropyl Alcohol | 1.900 | 45 | 100289 | 7.390 | ppbv | 97 |
| 20) Methylene Chloride | 2.075 | 84 | 60054 | 6.704 | ppbv | 88 |
| 21) Allyl Chloride | 2.111 | 41 | 127800 | 7.534 | ppbv | 98 |
| 22) trans-1,2-Dichloroethene | 2.360 | 96 | 78991 | 7.198 | ppbv | 98 |
| 23) Vinyl Acetate | 2.483 | 43 | 64777 | 6.222 | ppbv | 98 |
| 24) 1,1-Dichloroethane | 2.428 | 63 | 168373 | 8.277 | ppbv | 99 |
| 25) Ethyl Acetate | 2.861 | 43 | 545140 | 8.732 | ppbv | 99 |
| 26) Hexane | 2.848 | 57 | 205629 | 8.528 | ppbv | 97 |
| 27) Carbon Disulfide | 2.166 | 76 | 191388 | 7.402 | ppbv | 99 |
| 28) Methyl tert-Butyl Ether | 2.460 | 73 | 107667 | 7.172 | ppbv | 96 |
| 29) Chloroform | 2.874 | 83 | 309262 | 8.763 | ppbv | 100 |
| 30) Cyclohexane | 3.891 | 84 | 165914 | 7.924 | ppbv | 98 |
| 31) cis-1,2-Dichloroethene | 2.742 | 61 | 197651 | 8.074 | ppbv | 99 |
| 32) 1,1,1-Trichloroethane | 3.395 | 97 | 304143 | 7.528 | ppbv | 97 |
| 34) 2-Butanone | 2.580 | 43 | 300576 | 9.323 | ppbv | 98 |
| 35) Carbon Tetrachloride | 3.797 | 117 | 314849 | 9.065 | ppbv | 99 |
| 36) Benzene | 3.690 | 78 | 407959 | 9.256 | ppbv | 98 |
| 37) 1,2-Dichloroethane | 3.247 | 62 | 235609 | 9.337 | ppbv | 99 |
| 38) Trichloroethene | 4.590 | 130 | 164664 | 8.954 | ppbv | 96 |
| 39) 1,2-Dichloropropane | 4.354 | 63 | 149260 | 9.299 | ppbv | 97 |
| 40) 1,4-Dioxane | 4.625 | 88 | 68773 | 8.072 | ppbv # | 95 |
| 41) Tetrahydrofuran | 3.082 | 42 | 173776 | 9.361 | ppbv | 95 |
| 42) Bromodichloromethane | 4.532 | 83 | 327497 | 9.414 | ppbv | 99 |
| 43) Methyl Methacrylate | 4.930 | 69 | 151531 | 8.121 | ppbv | 98 |
| 44) 2,2,4-Trimethylpentane | 4.680 | 57 | 707832 | 9.503 | ppbv | 98 |
| 45) t-1,3-Dichloropropene | 6.470 | 75 | 143714 | 7.179 | ppbv | 91 |

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
Data File : VL042328.D
Acq On : 15 Apr 2025 12:54
Operator : SY/MD
Sample : VL0415ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 16 01:30:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.658 | 75 | 192419 | 7.841 | ppbv | | 96 |
| 47) 1,1,2-Trichloroethane | 6.635 | 97 | 163251 | 9.621 | ppbv | | 98 |
| 48) Dibromochloromethane | 7.428 | 129 | 266192 | 9.256 | ppbv | | 100 |
| 49) Bromoform | 9.519 | 173 | 236686 | 9.168 | ppbv | | 99 |
| 50) 4-Methyl-2-Pentanone | 5.807 | 43 | 429988 | 8.416 | ppbv | | 95 |
| 51) 2-Hexanone | 7.480 | 43 | 344172 | 8.203 | ppbv | # | 96 |
| 52) Tetrachloroethene | 8.263 | 164 | 139845 | 8.000 | ppbv | | 95 |
| 53) Toluene | 6.978 | 91 | 447178 | 8.559 | ppbv | | 99 |
| 54) 1,2-Dibromoethane | 7.694 | 107 | 214982 | 9.089 | ppbv | | 98 |
| 56) 1,1,1,2-Tetrachloroethane | 8.959 | 131 | 216770 | 9.855 | ppbv | | 98 |
| 57) Chlorobenzene | 8.956 | 112 | 369132 | 9.739 | ppbv | | 95 |
| 58) Ethyl Benzene | 9.390 | 91 | 618669 | 8.716 | ppbv | | 100 |
| 59) m/p-Xylene | 9.584 | 91 | 1049238m | 18.512 | ppbv | | |
| 60) o-Xylene | 9.995 | 91 | 517471 | 9.107 | ppbv | | 96 |
| 61) Styrene | 9.904 | 104 | 229601 | 8.168 | ppbv | | 97 |
| 62) Isopropylbenzene | 10.568 | 105 | 785673 | 9.247 | ppbv | | 99 |
| 63) 1,1,2,2-Tetrachloroethane | 9.995 | 83 | 351308 | 10.176 | ppbv | | 99 |
| 64) n-propylbenzene | 11.018 | 120 | 210294 | 9.615 | ppbv | | 98 |
| 65) tert-Butylbenzene | 11.558 | 119 | 718948 | 9.149 | ppbv | | 97 |
| 66) Benzyl Chloride | 11.642 | 91 | 55150 | 6.614 | ppbv | | 99 |
| 67) sec-Butylbenzene | 11.795 | 105 | 1018861 | 9.328 | ppbv | | 100 |
| 69) p-Isopropyltoluene | 11.950 | 119 | 863264 | 9.179 | ppbv | | 99 |
| 70) n-Butylbenzene | 12.306 | 91 | 891883 | 9.273 | ppbv | | 99 |
| 71) 2-Chlorotoluene | 10.930 | 91 | 590408 | 8.953 | ppbv | | 99 |
| 72) 4-Ethyltoluene | 11.150 | 105 | 652962 | 9.230 | ppbv | | 98 |
| 73) 1,3,5-Trimethylbenzene | 11.231 | 105 | 559451 | 9.055 | ppbv | | 100 |
| 74) 1,2,4-Trimethylbenzene | 11.565 | 105 | 632271 | 8.883 | ppbv | | 97 |
| 75) 1,3-Dichlorobenzene | 11.633 | 146 | 381882 | 9.782 | ppbv | | 98 |
| 76) 1,4-Dichlorobenzene | 11.697 | 146 | 383116 | 9.861 | ppbv | | 98 |
| 77) 1,2-Dichlorobenzene | 11.973 | 146 | 386768 | 10.175 | ppbv | | 98 |
| 78) Hexachloro-1,3-Butadiene | 13.905 | 225 | 314860 | 8.138 | ppbv | | 100 |
| 79) Naphthalene | 13.539 | 128 | 777722 | 9.989 | ppbv | | 99 |
| 80) Naphthalene,2-methyl- | 14.481 | 142 | 375541 | 9.836 | ppbv | | 98 |
| 81) 1,2,4-Trichlorobenzene | 13.465 | 180 | 343011 | 9.551 | ppbv | | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

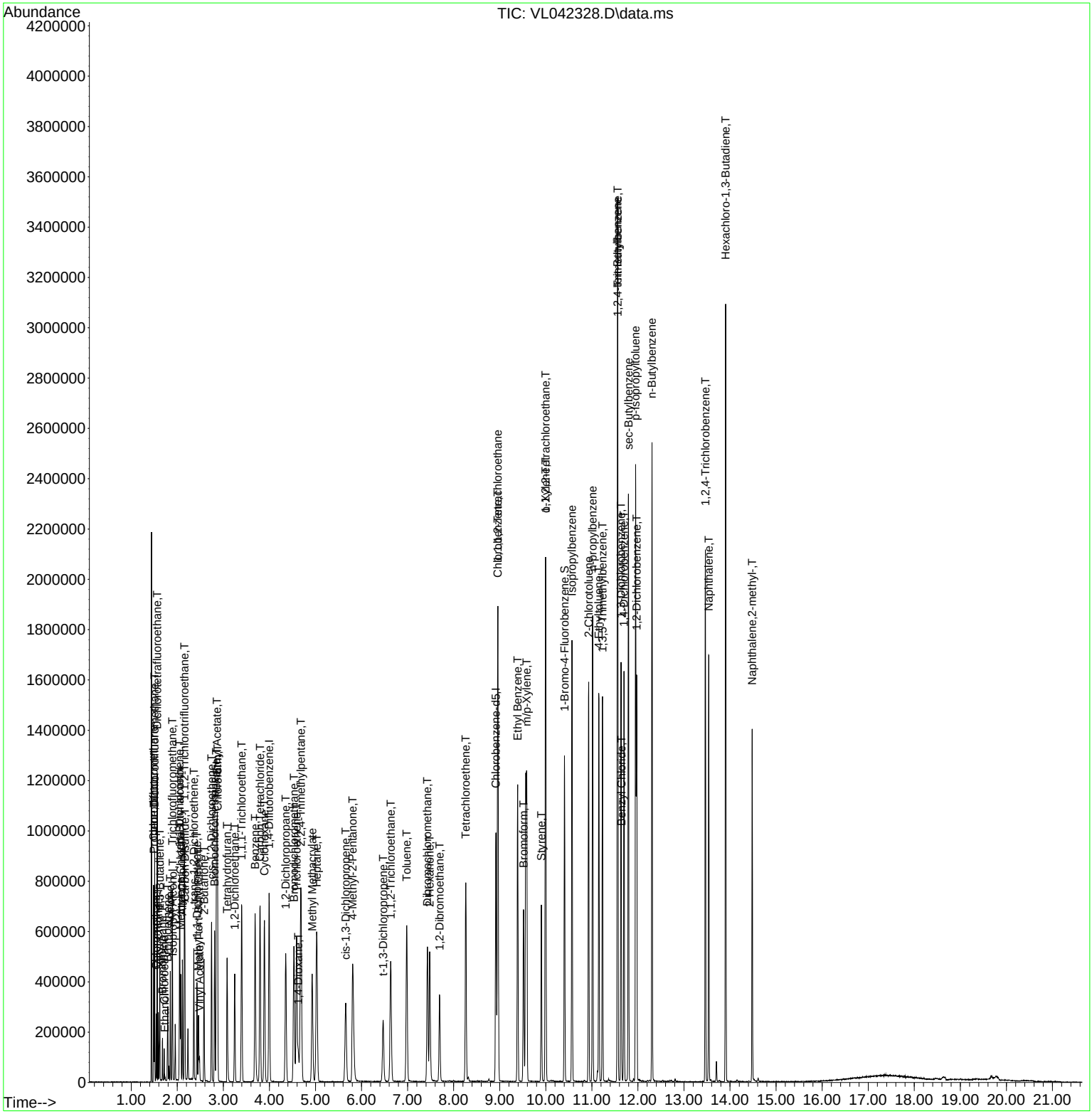
Quantitation Report (QT Reviewed)

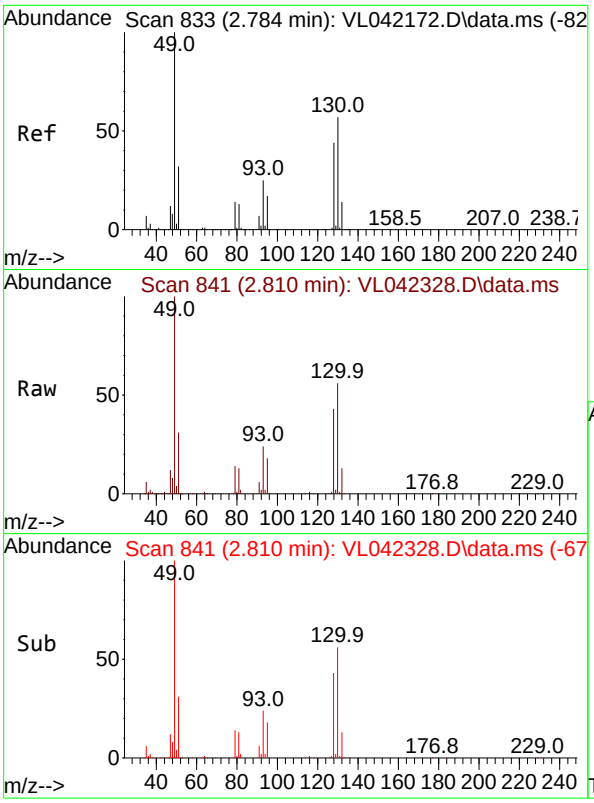
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
Data File : VL042328.D
Acq On : 15 Apr 2025 12:54
Operator : SY/MD
Sample : VL0415ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 16 01:30:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025


Abundance
TIC: VL042328.D\data.ms
Time-->
Hexachloro-1,3-Butadiene,T
1,2,4-Trichlorobenzene,T
Naphthalene,T
Naphthalene,2-methyl-,T
n-Butylbenzene
p-Isopropyltoluene
sec-Butylbenzene
1,2-Dichlorobenzene,T
1-Bromo-4-Fluorobenzene,S
Isopropylbenzene
Styrene,T
Bromoform,T
Ethyl Benzene,T
m/p-Xylene,T
Chlorobenzene-d5,I
Tetrachloroethene,T
1,2-Dibromoethane,T
Toluene,T
1,1,2-Trichloroethane,T
t-1,3-Dichloropropene,T
cis-1,3-Dichloropropene,T
1,2-Dichloropropane,T
1,4-Dioxane,T
1,2-Dichloroethane,T
Benzene,T
Trichloroethene,T
Methyl Methacrylate
Heptane,T
Tetrahydrofuran,T
Bromodichloromethane,T
Cyclohexane,T
Carbon Tetrachloride,T
Benzene,T
1,2-Dichloroethane,T
1,1,1-Trichloroethane,T
Vinyl Acetate,T
Ethanol,T
Trichlorofluoromethane,T
Ethanol,T
Acetone,T
Isopropyl Alcohol,T
Ethanol,T
Trichlorotrifluoroethane,T
Acetone,T
Isopropyl Alcohol,T
Ethanol,T
Dichlorodifluoromethane,T
Propylene,T
Propylene,T
Dichlorotetrafluoroethane,T
Chloromethane




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.810 min Scan# 84
Delta R.T. 0.026 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

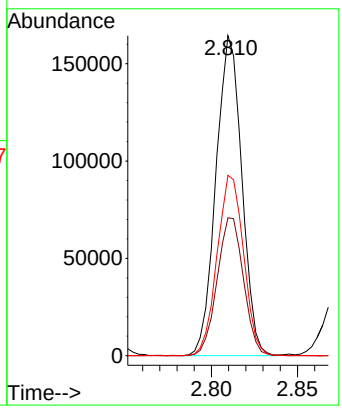
Tgt Ion: 49 Resp: 17198

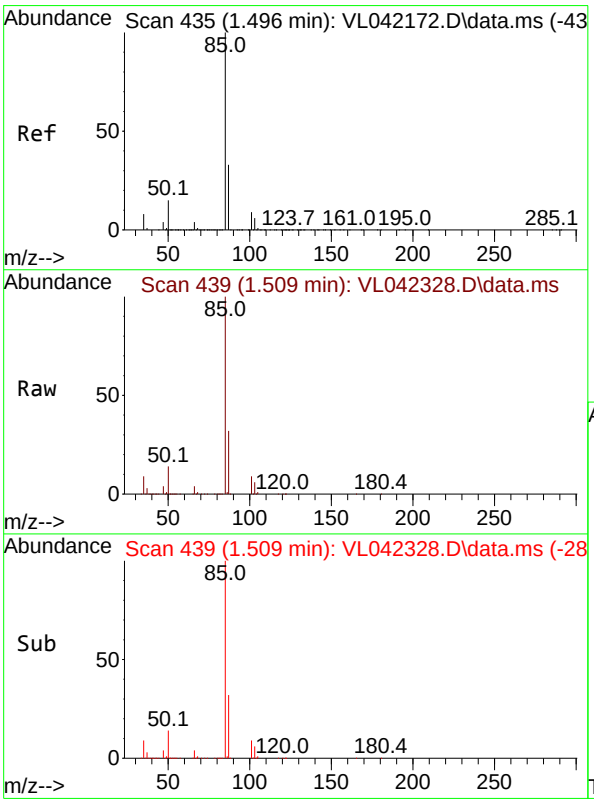
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 43.9 | 22.9 | 68.5 |
| 130 | 57.7 | 28.8 | 86.4 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

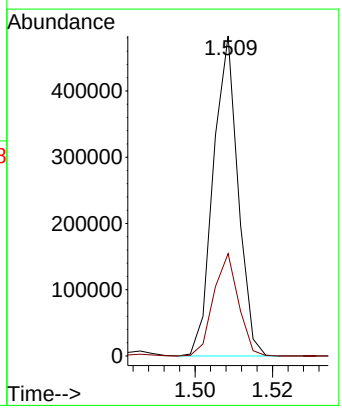


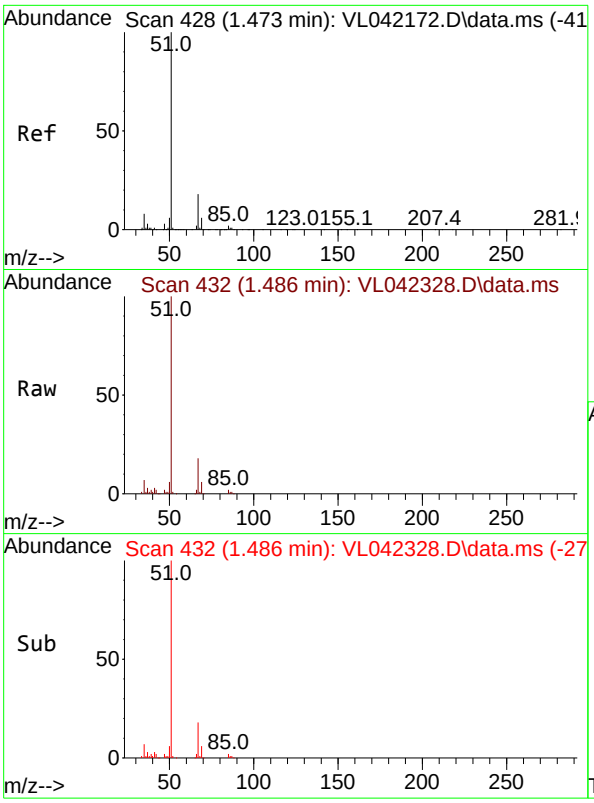




#2
Dichlorodifluoromethane
Concen: 8.437 ppbv
RT: 1.509 min Scan# 439
Delta R.T. 0.013 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 85 Resp: 214241

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.0 | 26.1 | 39.1 |

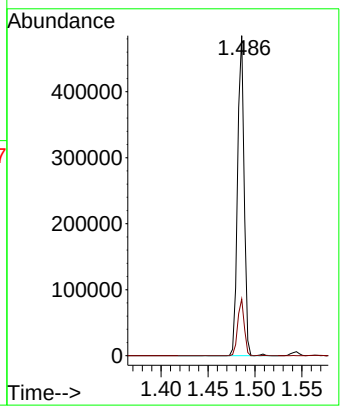





#3
Chlorodifluoromethane
Concen: 9.058 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.013 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 51 Resp: 23496

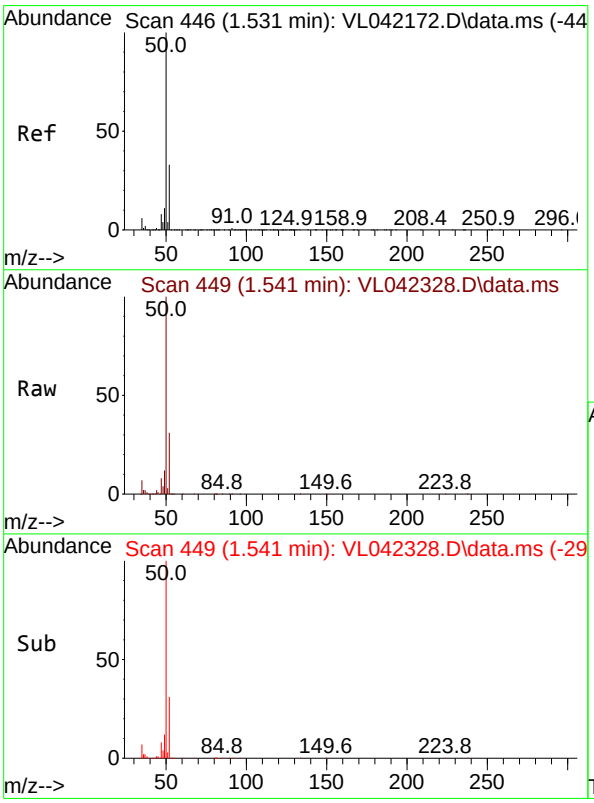
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 17.6 | 15.0 | 22.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

**Manual Integrations**
**APPROVED**

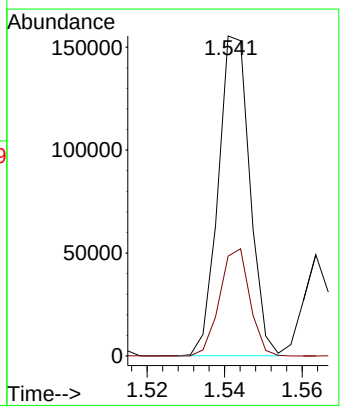
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

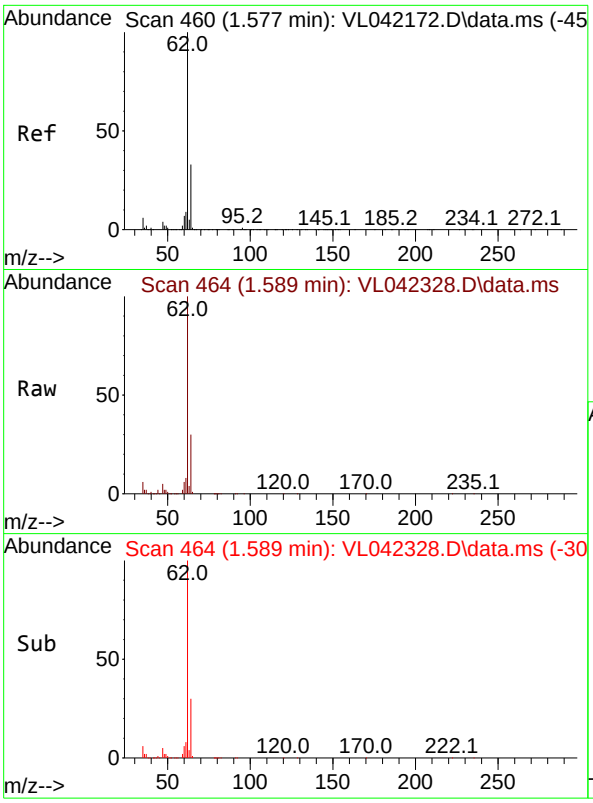



#4
Chloromethane
Concen: 8.502 ppbv
RT: 1.541 min Scan# 449
Delta R.T. 0.010 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 50 Resp: 88230

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 31.2 | 26.1 | 39.1 |

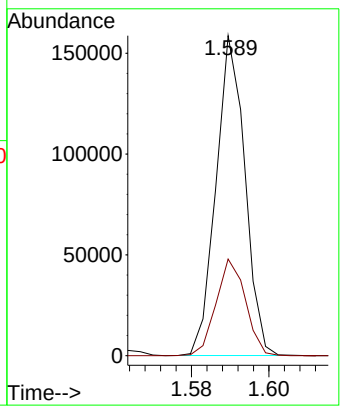





#5
Vinyl Chloride
Concen: 7.476 ppbv
RT: 1.589 min Scan# 4
Delta R.T. 0.013 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 62 Resp: 8222

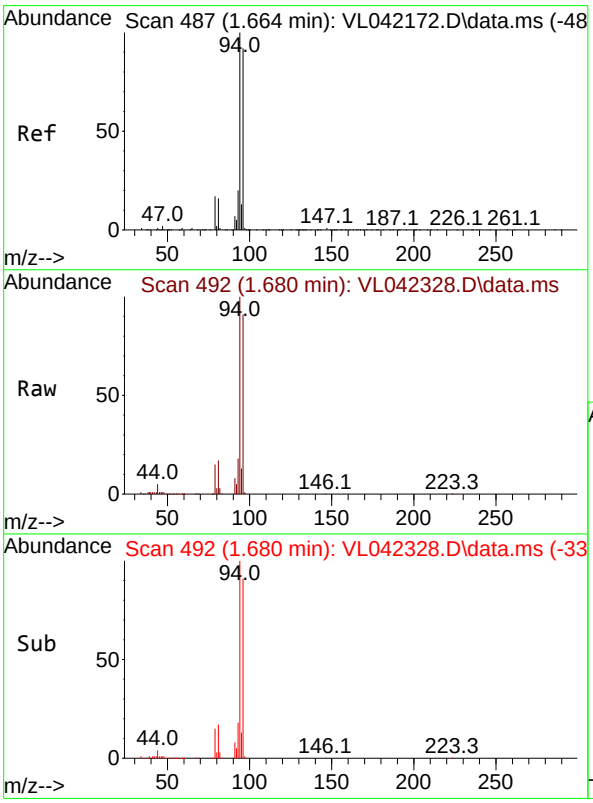
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 30.2 | 26.6 | 40.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

**Manual Integrations**
**APPROVED**

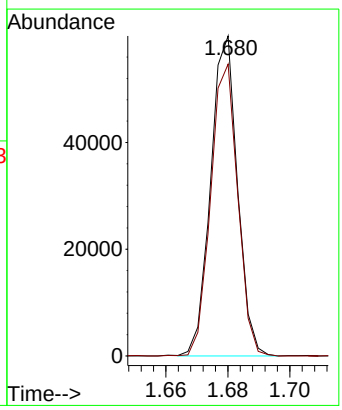
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

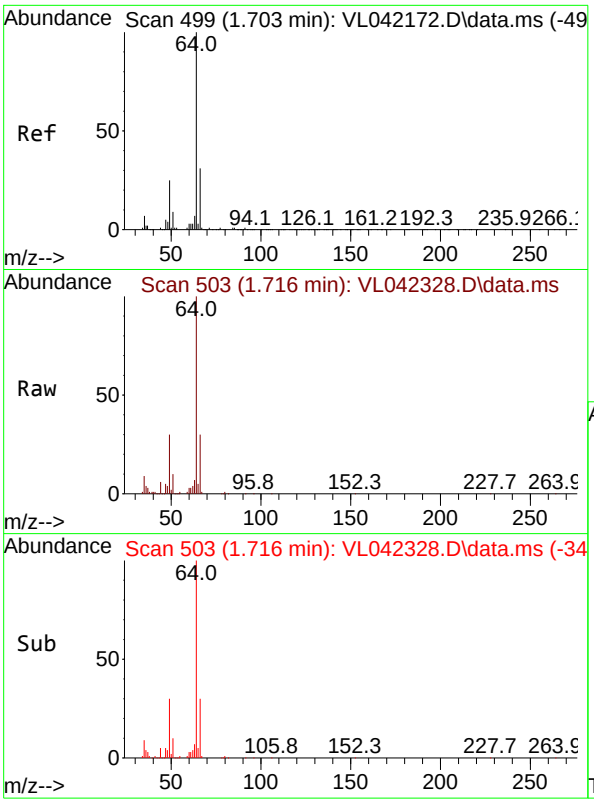



#6
Bromomethane
Concen: 7.665 ppbv
RT: 1.680 min Scan# 492
Delta R.T. 0.016 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 94 Resp: 36050

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 91.2 | 73.1 | 109.7 |

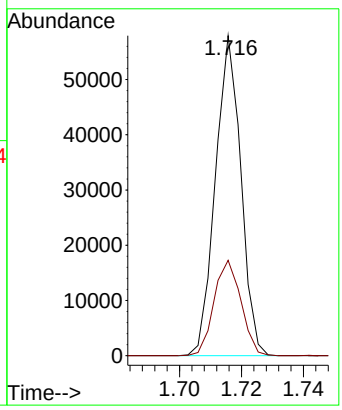





#7
Chloroethane
Concen: 7.931 ppbv
RT: 1.716 min Scan# 5
Delta R.T. 0.013 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 64 Resp: 3303

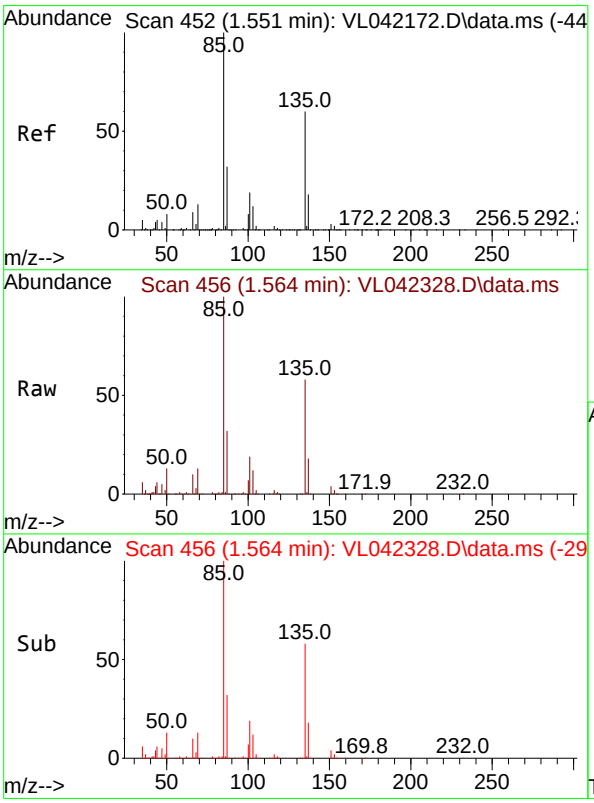
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 29.8 | 25.2 | 37.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

**Manual Integrations**
**APPROVED**

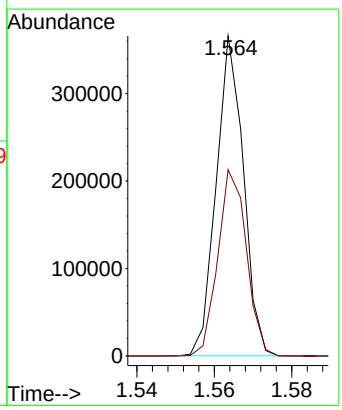
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

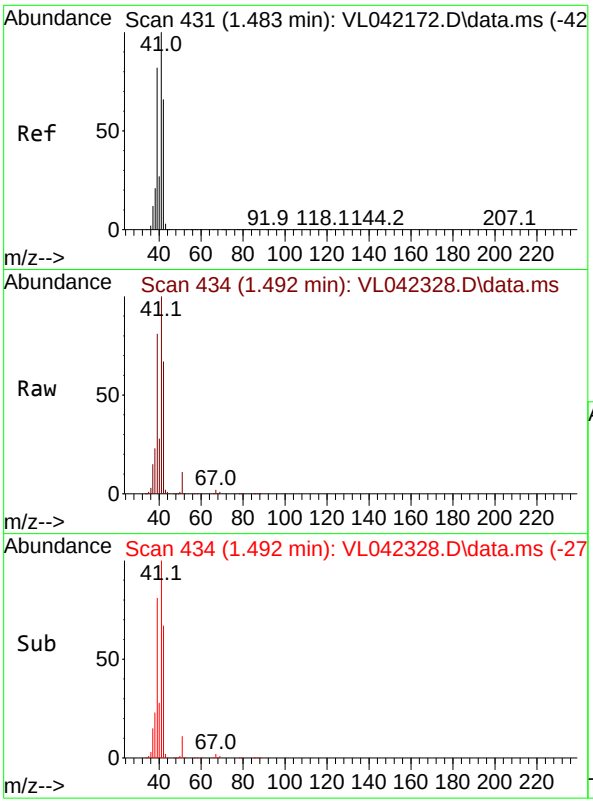



#8
Dichlorotetrafluoroethane
Concen: 8.239 ppbv
RT: 1.564 min Scan# 456
Delta R.T. 0.013 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 85 Resp: 178173

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 61.3 | 52.4 | 78.6 |

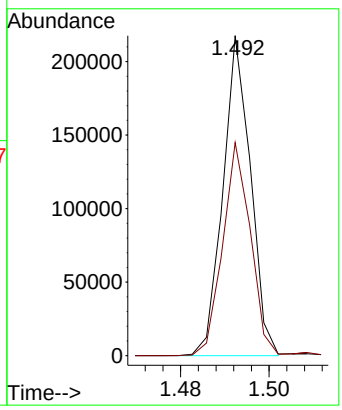





#9
Propene
Concen: 7.917 ppbv
RT: 1.492 min Scan# 4
Delta R.T. 0.010 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 41 Resp: 9413

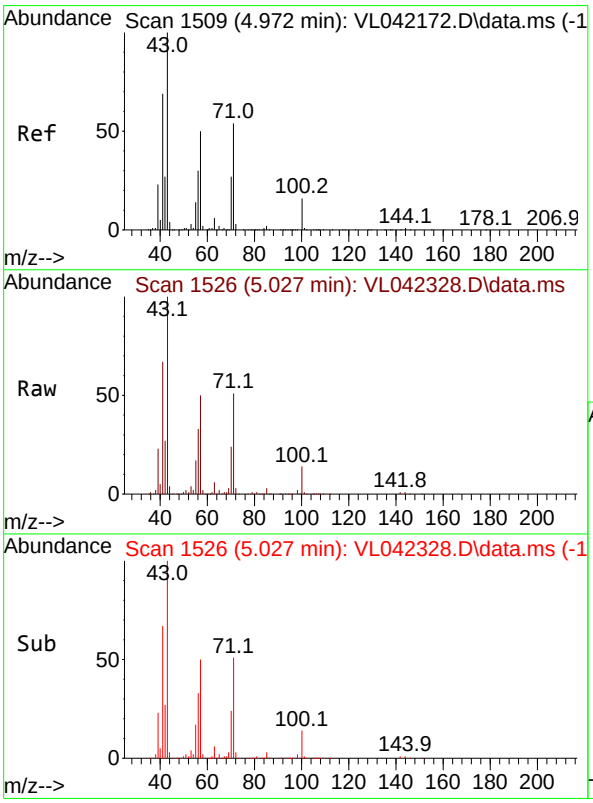
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 68.2 | 55.4 | 83.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

**Manual Integrations**
**APPROVED**

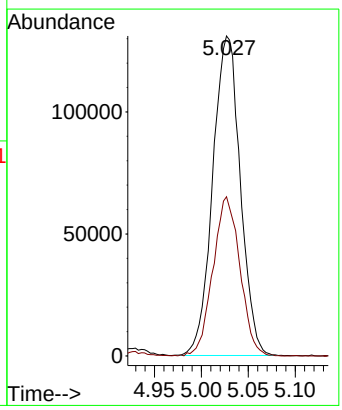
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

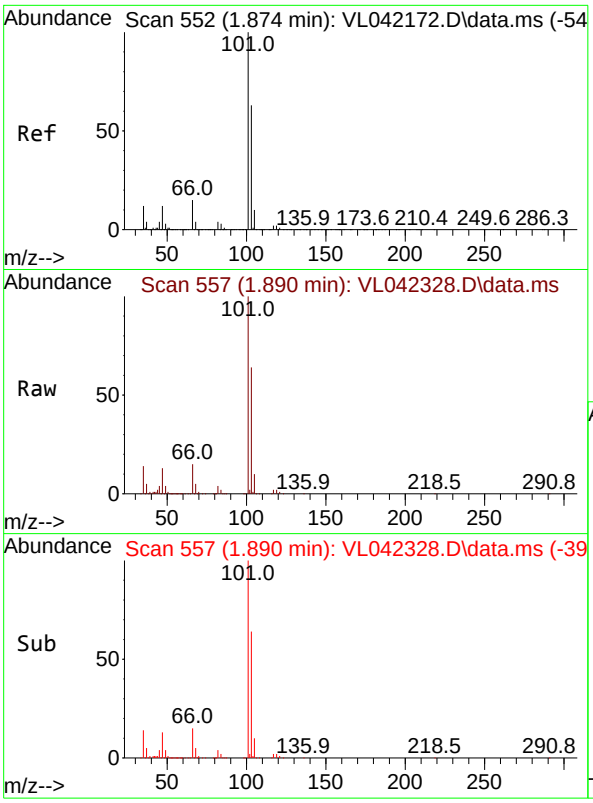



#10
Heptane
Concen: 8.451 ppbv
RT: 5.027 min Scan# 1526
Delta R.T. 0.055 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 43 Resp: 267288

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 48.8 | 39.4 | 59.2 |

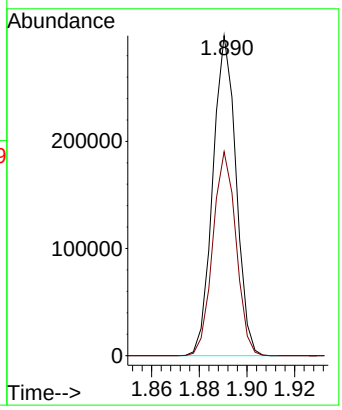





#11
Trichlorofluoromethane
Concen: 8.162 ppbv
RT: 1.890 min Scan# 5
Delta R.T. 0.016 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion:101 Resp: 20166

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.7 | 50.2 | 75.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

**Manual Integrations**
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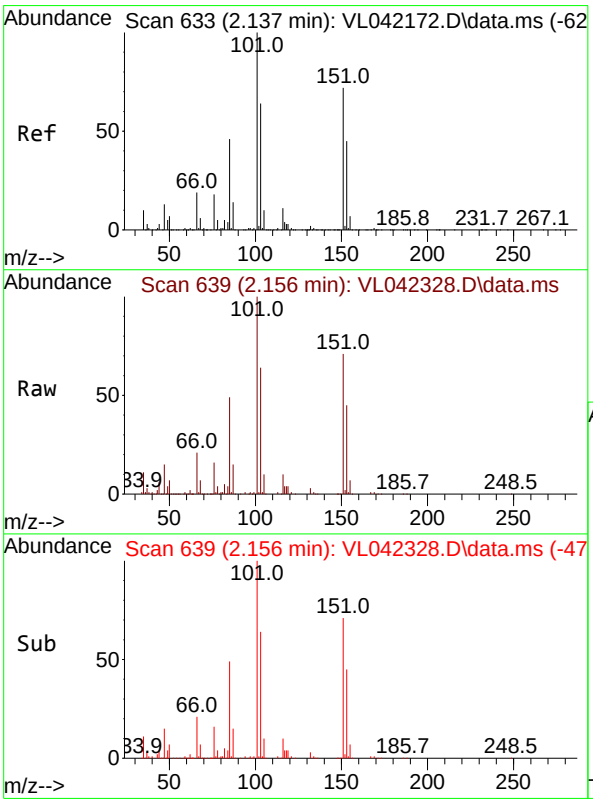
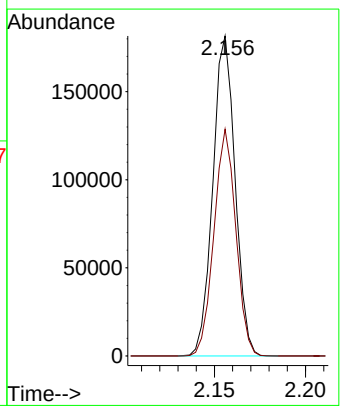
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

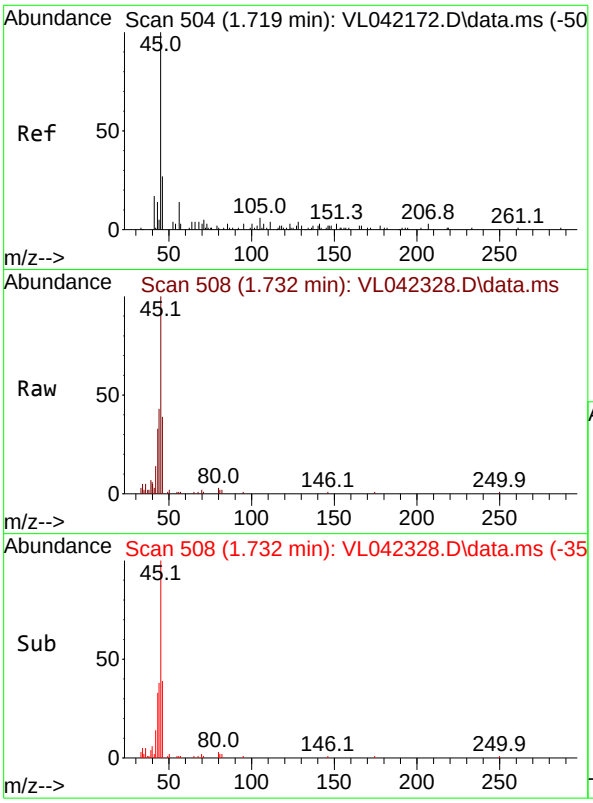



#12
1,1,2-Trichlorotrifluoroethane
Concen: 7.598 ppbv
RT: 2.156 min Scan# 639
Delta R.T. 0.019 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion:101 Resp: 154306

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 69.6 | 57.1 | 85.7 |

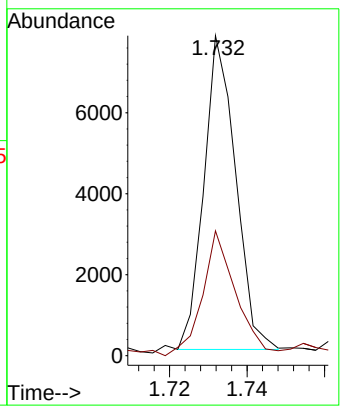





#13
Ethanol
Concen: 3.921 ppbv
RT: 1.732 min Scan# 5(
Delta R.T. 0.013 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 45 Resp: 440

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 48.1 | 20.2 | 80.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

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Reviewed By :Semsettin Yesilyurt 04/16/2025
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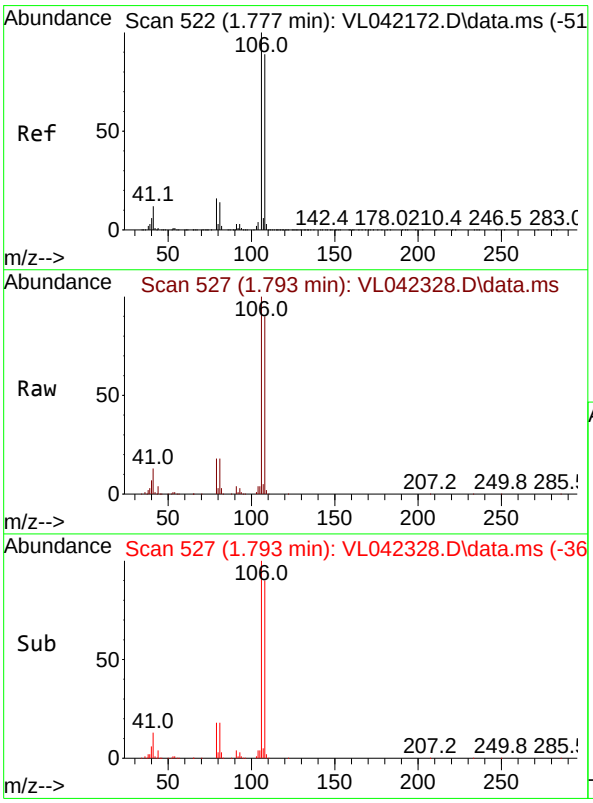
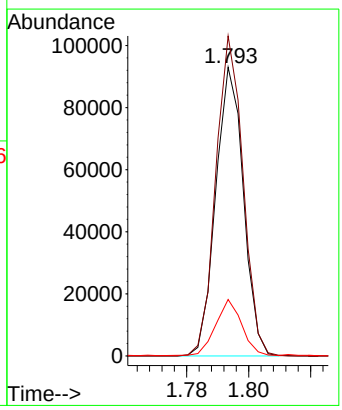
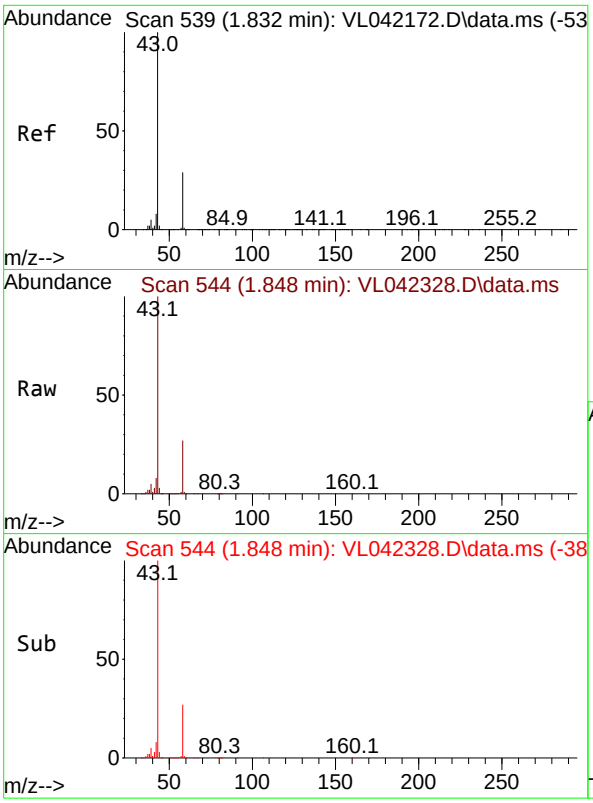



#14
Bromoethene
Concen: 7.408 ppbv
RT: 1.793 min Scan# 527
Delta R.T. 0.016 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion:108 Resp: 57635

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 106 | 108.9 | 86.8 | 130.2 |
| 79 | 19.8 | 15.0 | 22.6 |

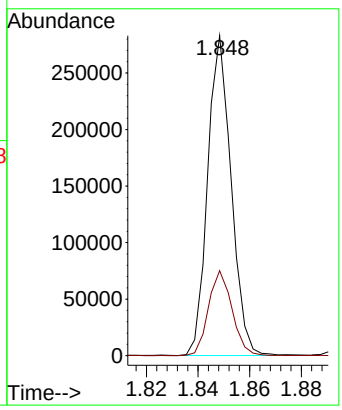





#15
Acetone
Concen: 7.430 ppbv
RT: 1.848 min Scan# 54
Delta R.T. 0.016 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 43 Resp: 17872

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 26.8 | 23.2 | 34.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

**Manual Integrations**
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Reviewed By :Semsettin Yesilyurt 04/16/2025
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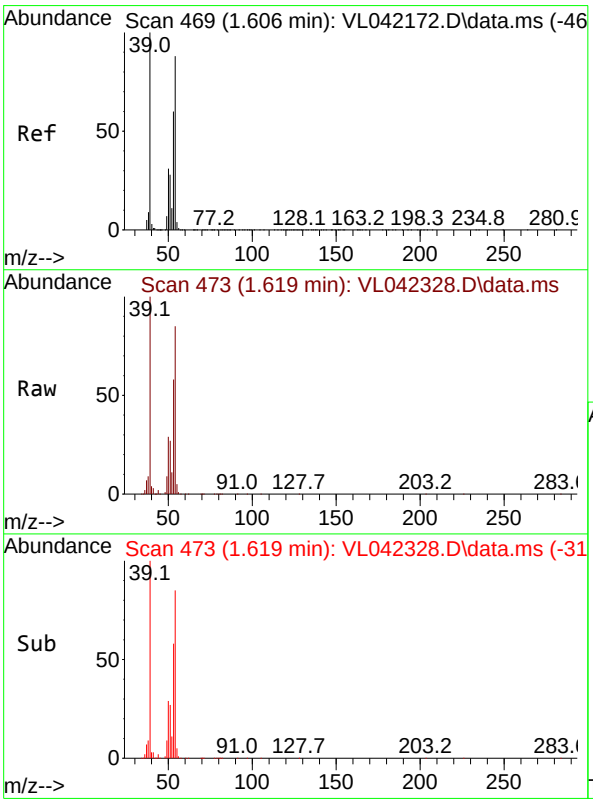
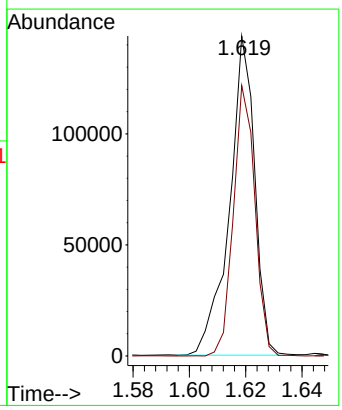
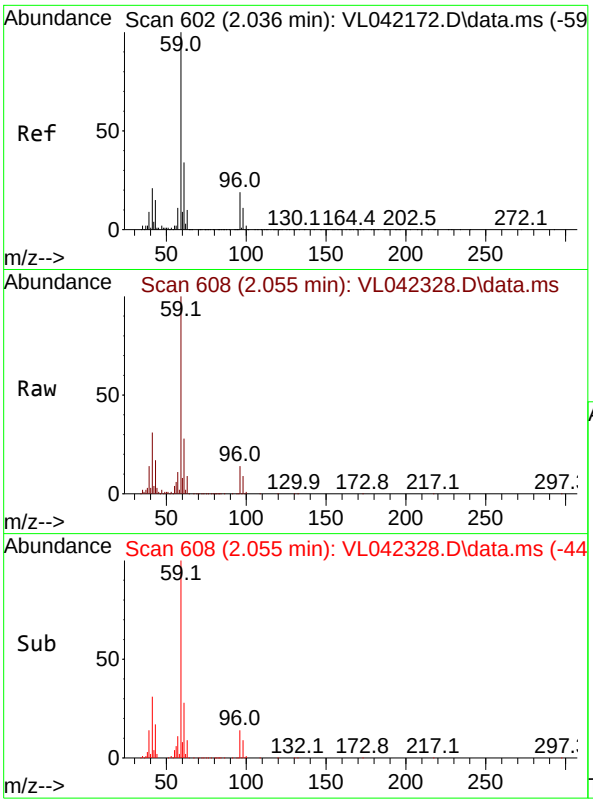



#16
1,3-Butadiene
Concen: 7.617 ppbv
RT: 1.619 min Scan# 473
Delta R.T. 0.013 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 39 Resp: 89479

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 72.1 | 60.7 | 91.1 |

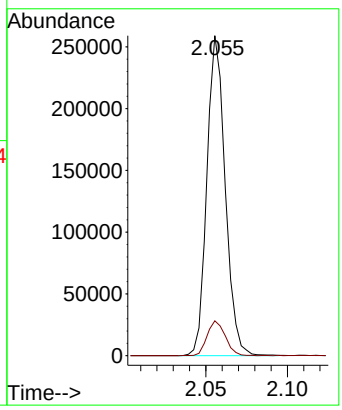





#17
tert-Butyl alcohol
Concen: 6.757 ppbv
RT: 2.055 min Scan# 6
Delta R.T. 0.019 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 59 Resp: 20242

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.8 | 8.9 | 13.3 |




**Instrument :**
MSVOA_L
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VL0415ABS01

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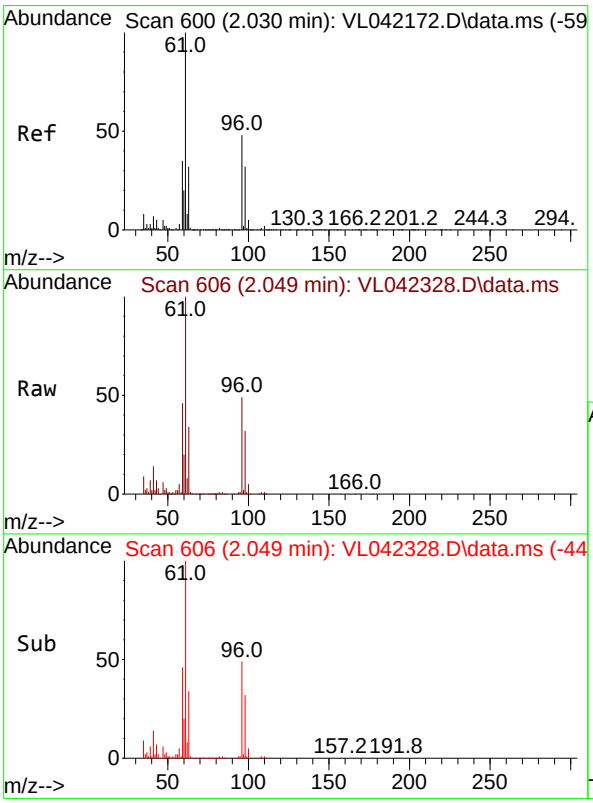
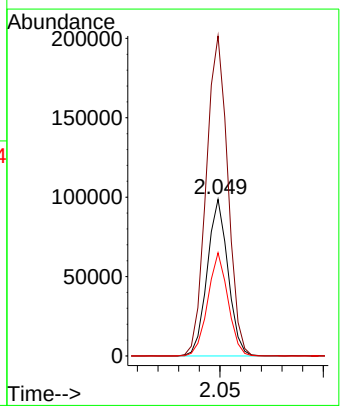
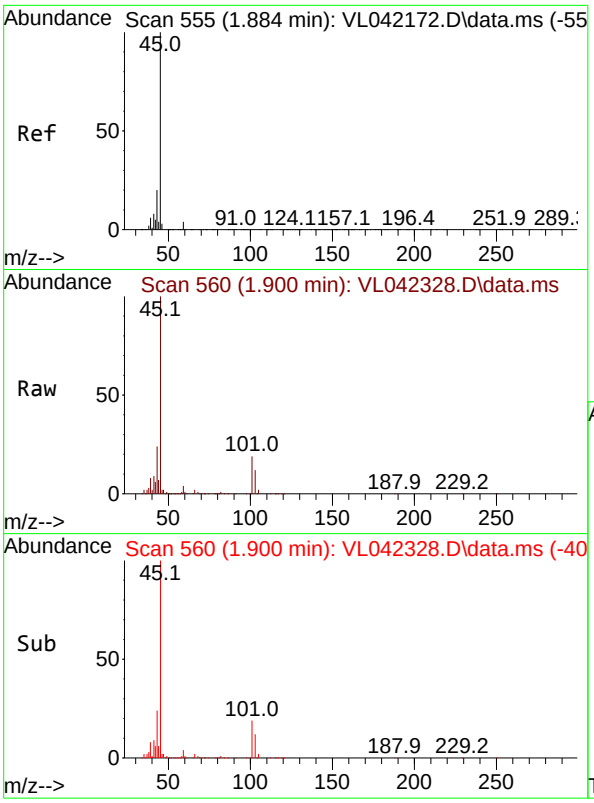



#18
1,1-Dichloroethene
Concen: 7.269 ppbv
RT: 2.049 min Scan# 606
Delta R.T. 0.019 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 96 Resp: 69013

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 204.2 | 167.6 | 251.4 |
| 98 | 65.9 | 53.5 | 80.3 |

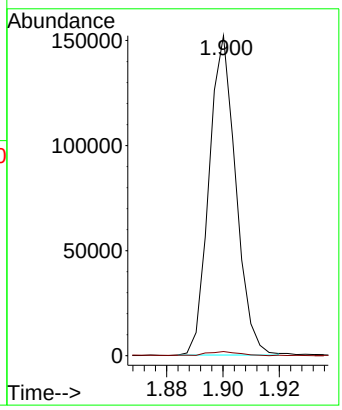





#19
Isopropyl Alcohol
Concen: 7.390 ppbv
RT: 1.900 min Scan# 5
Delta R.T. 0.016 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 45 Resp: 10028

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 47.9 | 36.9 | 55.3 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

**Manual Integrations**
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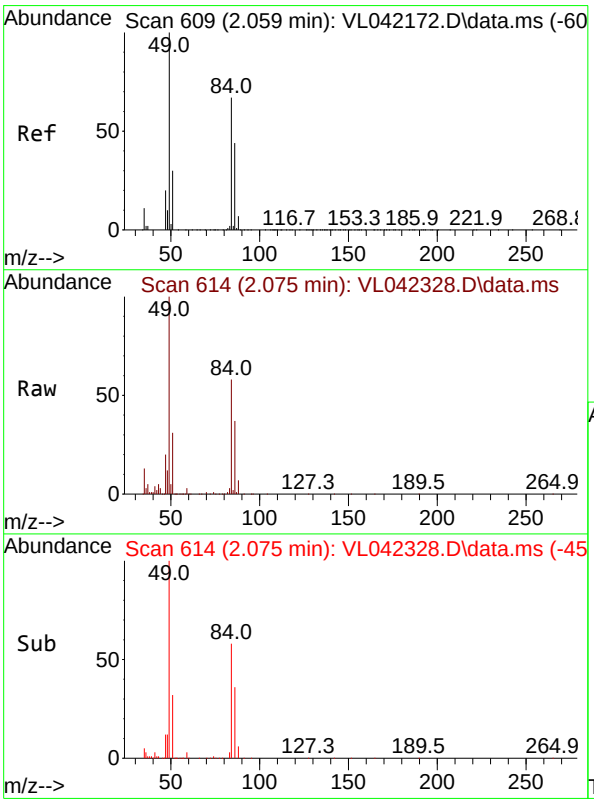
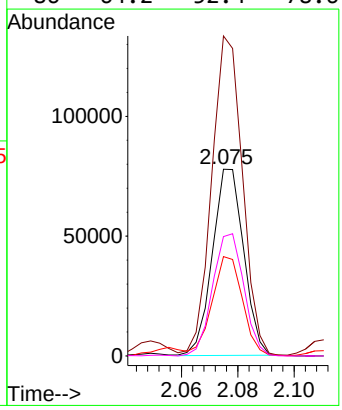
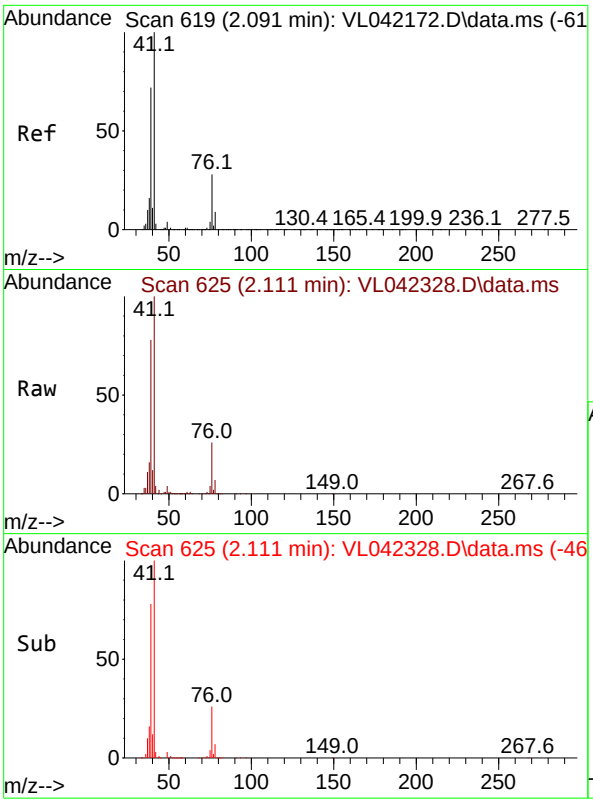



#20
Methylene Chloride
Concen: 6.704 ppbv
RT: 2.075 min Scan# 614
Delta R.T. 0.016 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 84 Resp: 60054

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 171.6 | 120.2 | 180.4 |
| 51 | 53.0 | 37.4 | 56.0 |
| 86 | 64.2 | 52.4 | 78.6 |

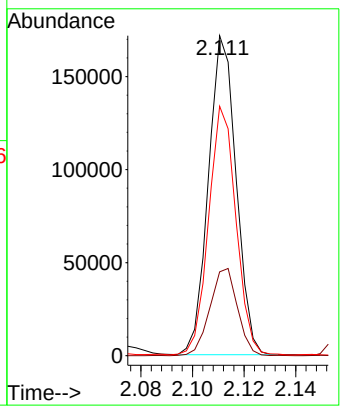





#21
Allyl Chloride
Concen: 7.534 ppbv
RT: 2.111 min Scan# 6
Delta R.T. 0.019 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 41 Resp: 12780

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 27.3 | 24.1 | 36.1 |
| 39 | 76.8 | 61.1 | 91.7 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

**Manual Integrations**
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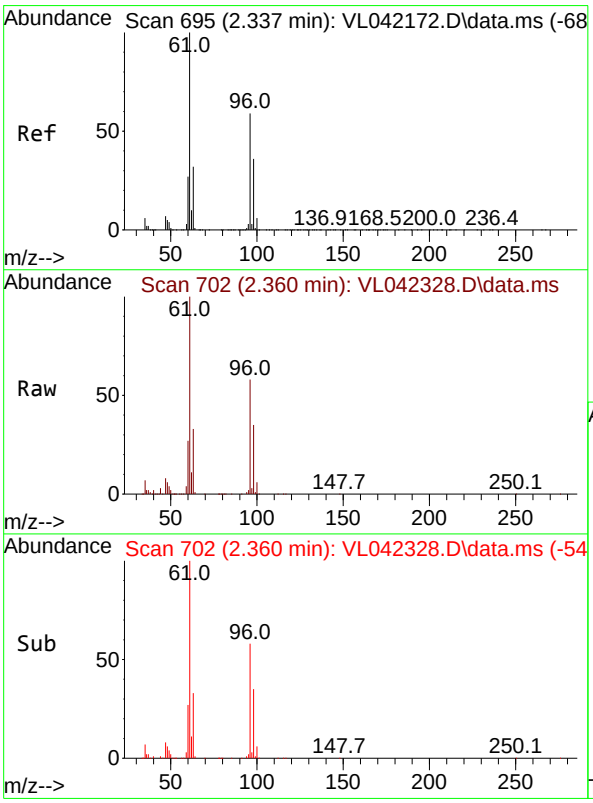
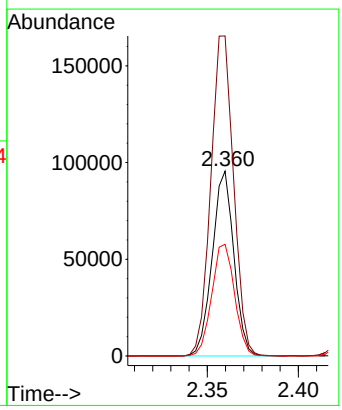
Supervised By :Mahesh Dadoda 04/16/2025

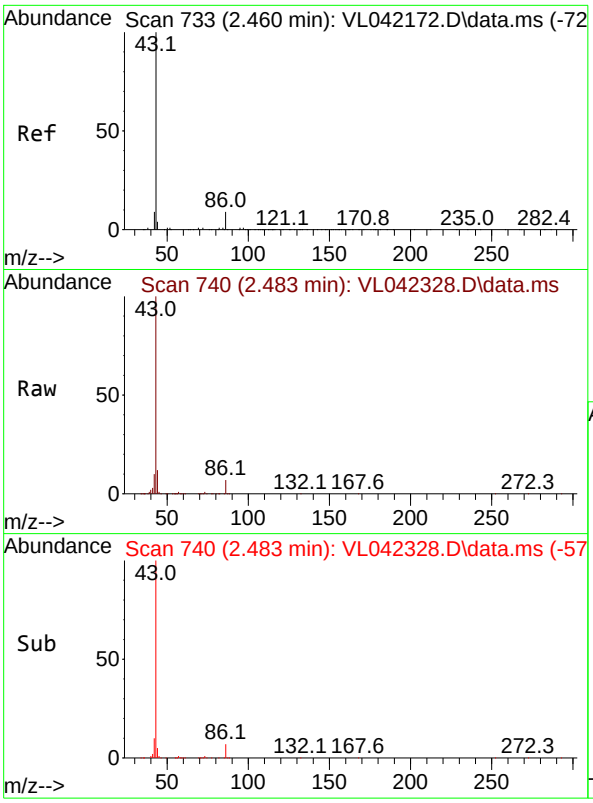



#22
trans-1,2-Dichloroethene
Concen: 7.198 ppbv
RT: 2.360 min Scan# 702
Delta R.T. 0.022 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 96 Resp: 78991

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 173.2 | 136.6 | 204.8 |
| 98 | 60.4 | 49.4 | 74.2 |

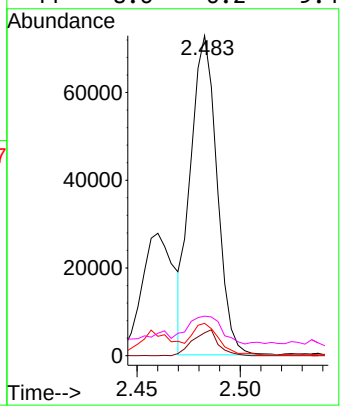





#23
Vinyl Acetate
Concen: 6.222 ppbv
RT: 2.483 min Scan# 7
Delta R.T. 0.022 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 43 Resp: 6477

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 7.2 | 5.5 | 8.3 |
| 42 | 9.9 | 8.6 | 13.0 |
| 44 | 8.6 | 6.2 | 9.4 |




**Instrument :**
MSVOA_L
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VL0415ABS01

**Manual Integrations**
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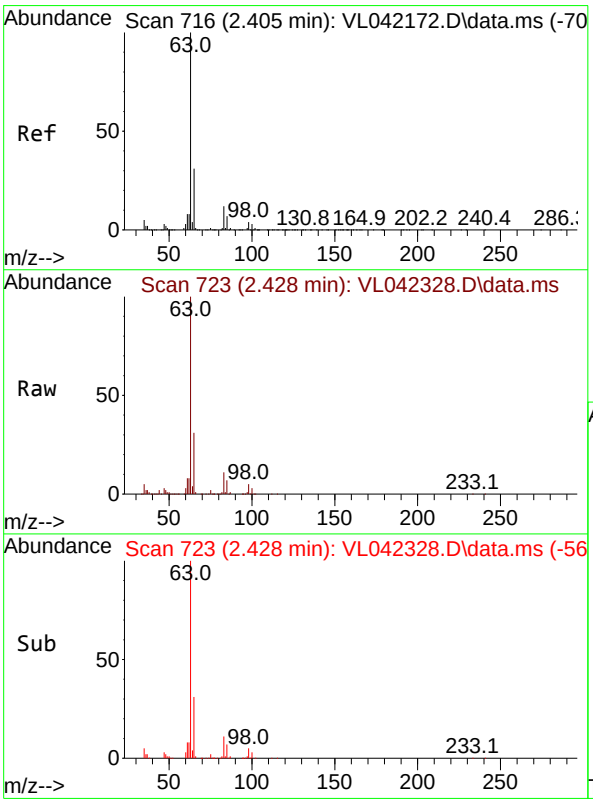
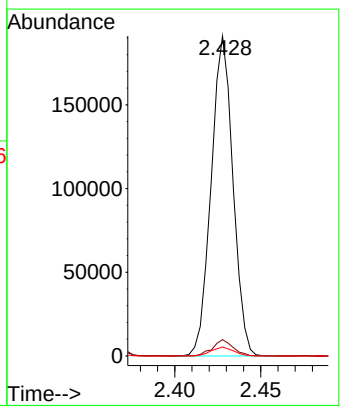
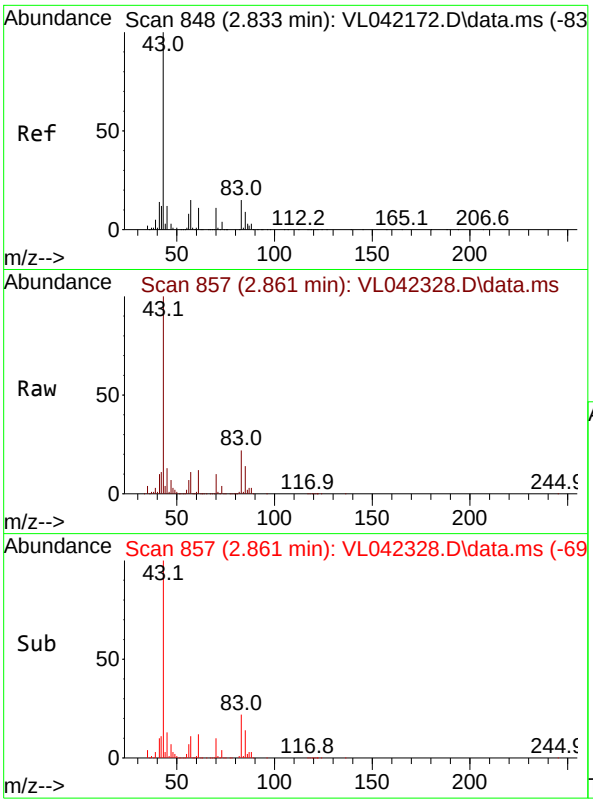



#24
1,1-Dichloroethane
Concen: 8.277 ppbv
RT: 2.428 min Scan# 723
Delta R.T. 0.022 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 63 Resp: 168373

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 5.1 | 2.3 | 6.8 |
| 100 | 2.8 | 1.6 | 4.7 |

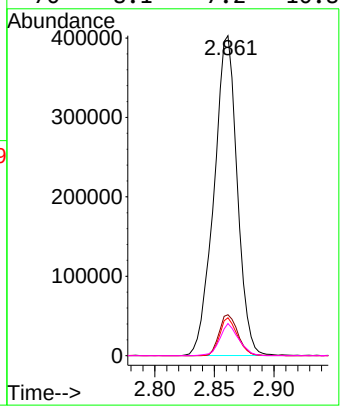





#25
Ethyl Acetate
Concen: 8.732 ppbv
RT: 2.861 min Scan# 8
Delta R.T. 0.029 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 43 Resp: 54514

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 10.5 | 8.2 | 12.2 |
| 61 | 9.1 | 7.3 | 10.9 |
| 70 | 8.1 | 7.2 | 10.8 |




**Instrument :**
MSVOA_L
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VL0415ABS01

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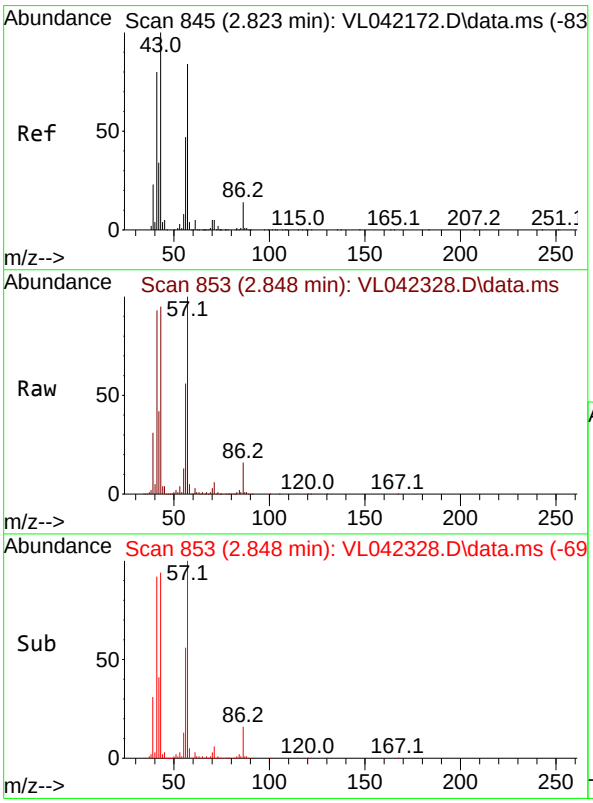
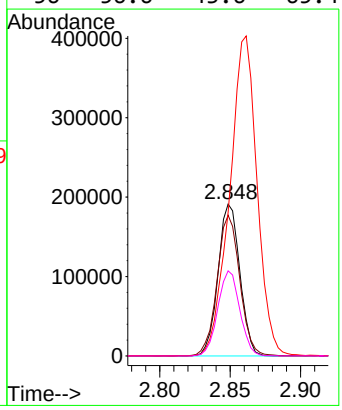
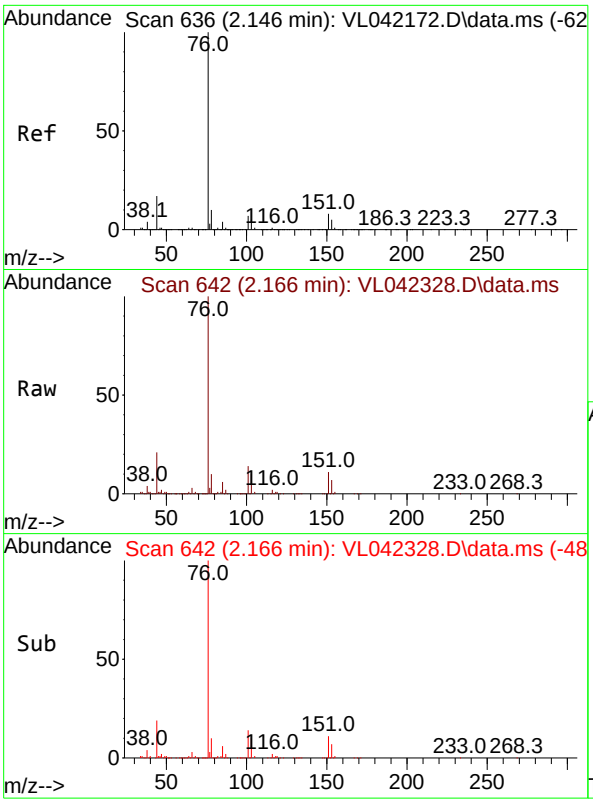



#26
Hexane
Concen: 8.528 ppbv
RT: 2.848 min Scan# 853
Delta R.T. 0.026 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 57 Resp: 205629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 97.2 | 76.6 | 114.8 |
| 43 | 265.7 | 207.8 | 311.8 |
| 56 | 56.6 | 43.6 | 65.4 |






#27
Carbon Disulfide
Concen: 7.402 ppbv
RT: 2.166 min Scan# 64
Delta R.T. 0.019 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 76 Resp: 19138

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 19.3 | 14.7 | 22.1 |
| 78 | 11.6 | 9.3 | 13.9 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

**Manual Integrations**
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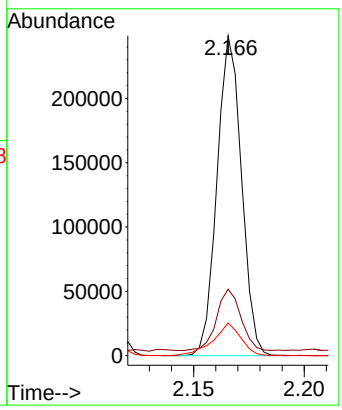
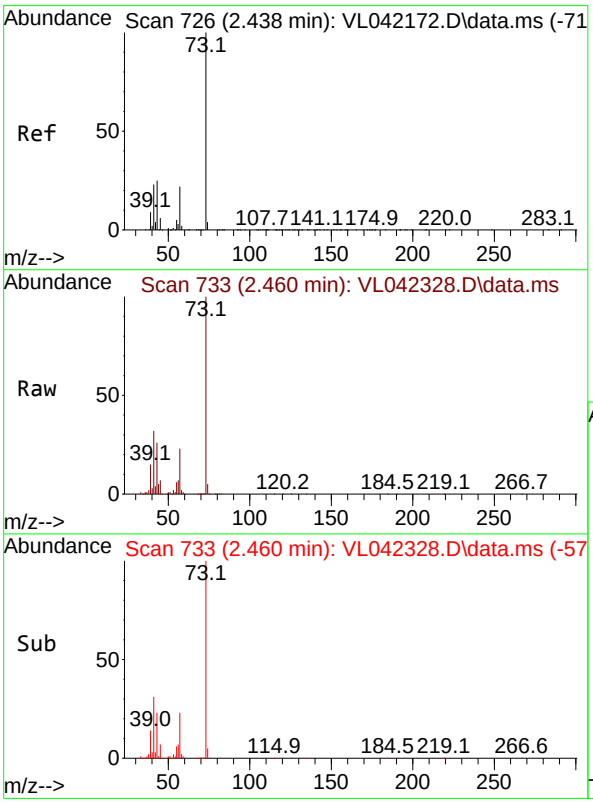
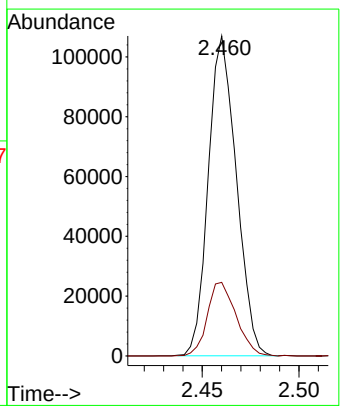


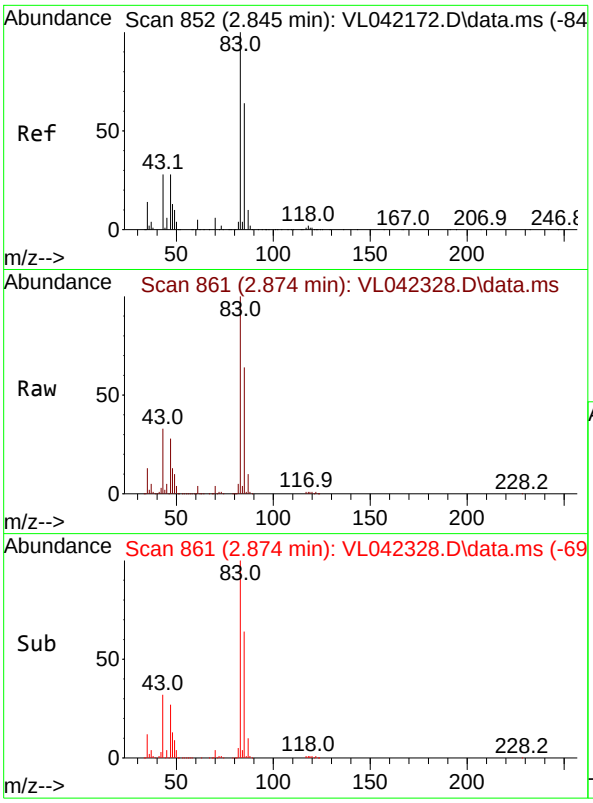




#28
Methyl tert-Butyl Ether
Concen: 7.172 ppbv
RT: 2.460 min Scan# 733
Delta R.T. 0.022 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 73 Resp: 107667

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 23.7 | 20.5 | 30.7 |






#29
Chloroform
Concen: 8.763 ppbv
RT: 2.874 min Scan# 8
Delta R.T. 0.029 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 83 Resp: 30926

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.1 | 51.4 | 77.2 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

**Manual Integrations**
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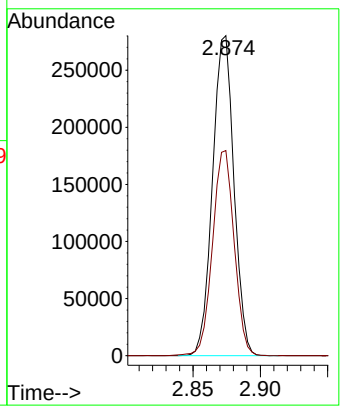
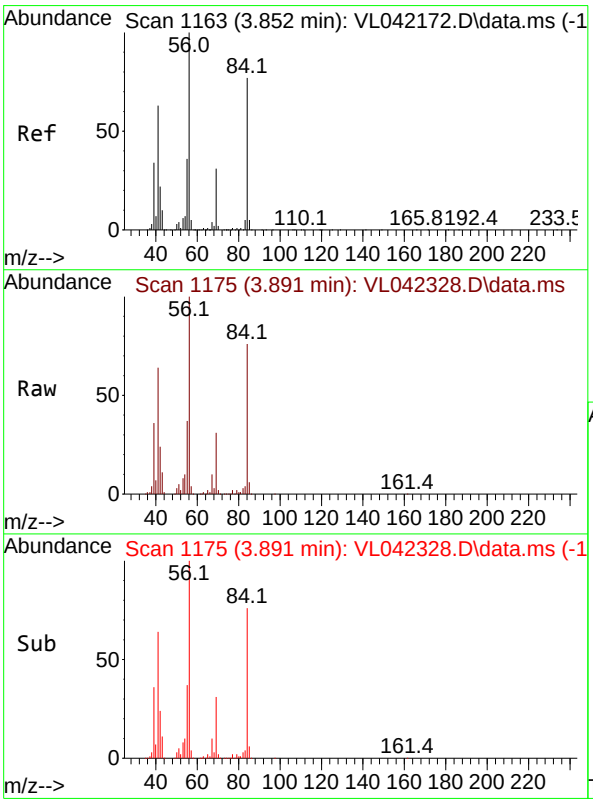
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

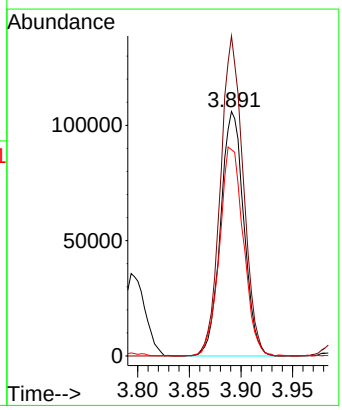


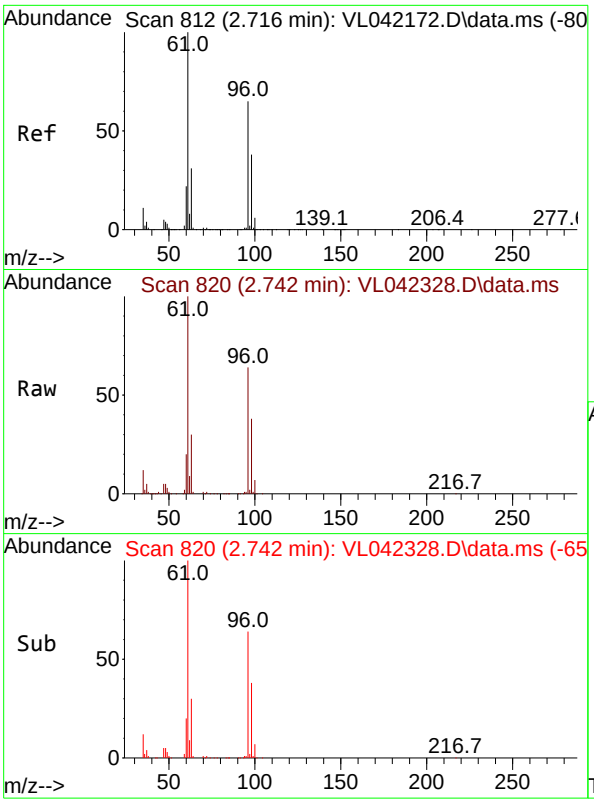




#30
Cyclohexane
Concen: 7.924 ppbv
RT: 3.891 min Scan# 1175
Delta R.T. 0.039 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 84 Resp: 165914

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 127.7 | 102.8 | 154.2 |
| 41 | 87.6 | 66.5 | 99.7 |

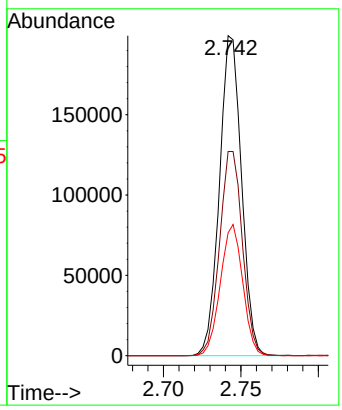





#31
cis-1,2-Dichloroethene
Concen: 8.074 ppbv
RT: 2.742 min Scan# 8
Delta R.T. 0.026 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 61 Resp: 19765

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 63.8 | 51.8 | 77.8 |
| 98 | 38.4 | 30.6 | 46.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

**Manual Integrations**
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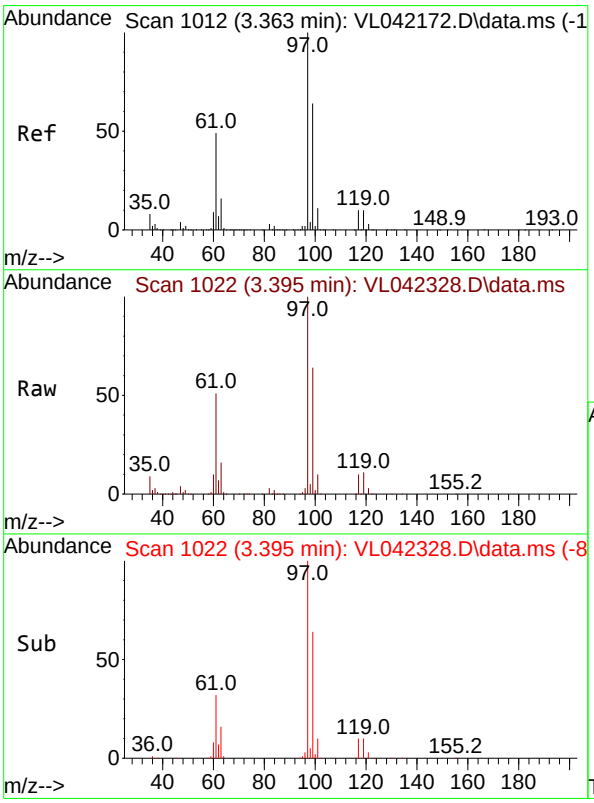
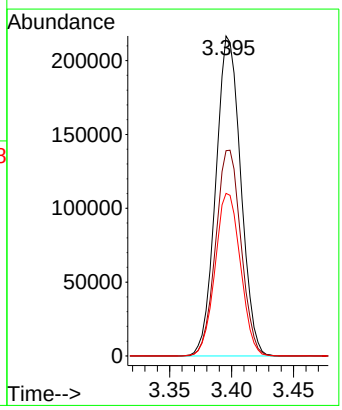
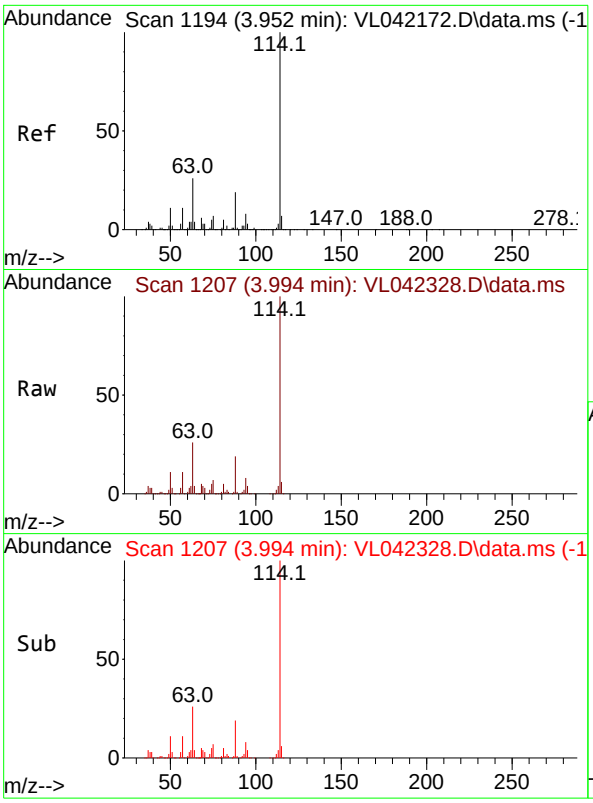



#32
1,1,1-Trichloroethane
Concen: 7.528 ppbv
RT: 3.395 min Scan# 1022
Delta R.T. 0.032 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 97 Resp: 304143

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 65.2 | 51.5 | 77.3 |
| 61 | 51.8 | 38.7 | 58.1 |

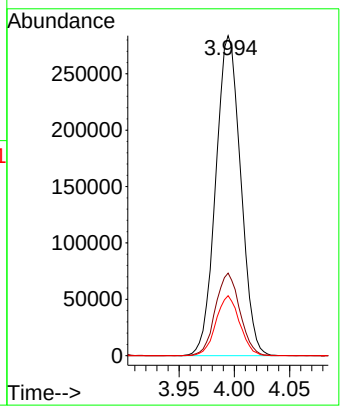





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.994 min Scan# 1
Delta R.T. 0.042 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion:114 Resp: 44459

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.4 | 20.7 | 31.1 |
| 88 | 17.8 | 15.0 | 22.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

**Manual Integrations**
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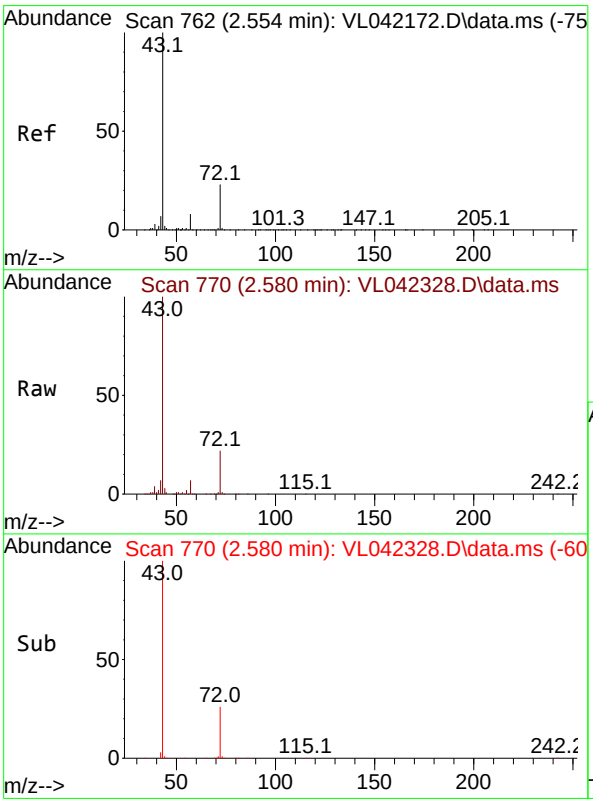
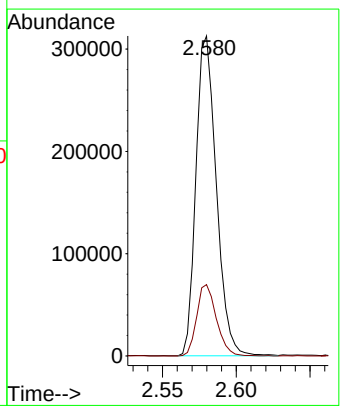
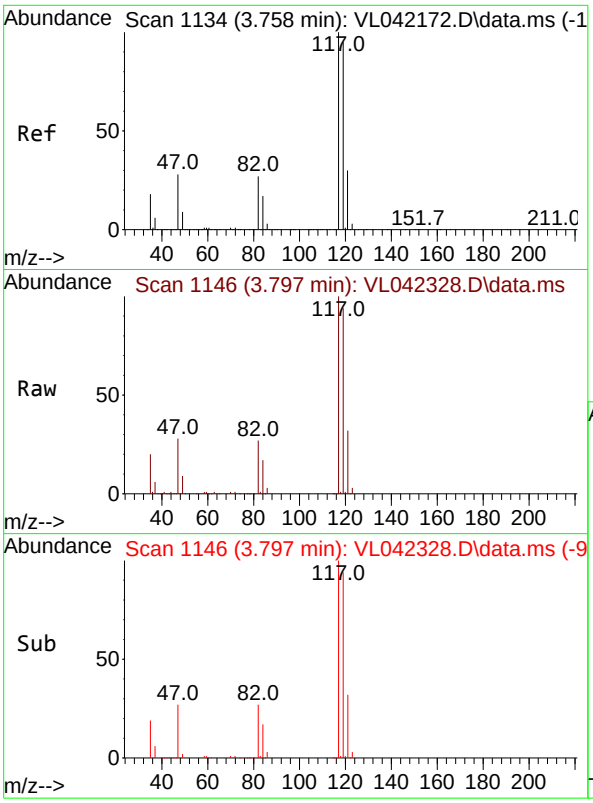



#34
2-Butanone
Concen: 9.323 ppbv
RT: 2.580 min Scan# 770
Delta R.T. 0.026 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 43 Resp: 300576

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 21.6 | 18.2 | 27.2 |

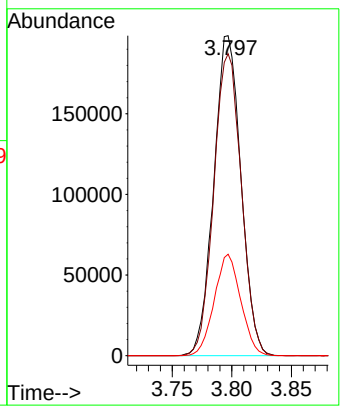





#35
Carbon Tetrachloride
Concen: 9.065 ppbv
RT: 3.797 min Scan# 1
Delta R.T. 0.039 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion:117 Resp: 31484

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 94.3 | 76.2 | 114.2 |
| 121 | 31.7 | 24.2 | 36.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

**Manual Integrations**
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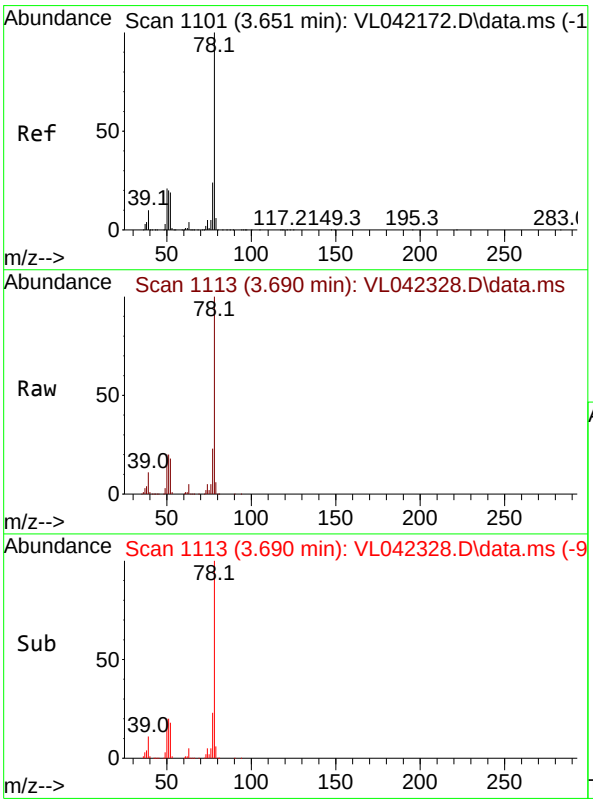
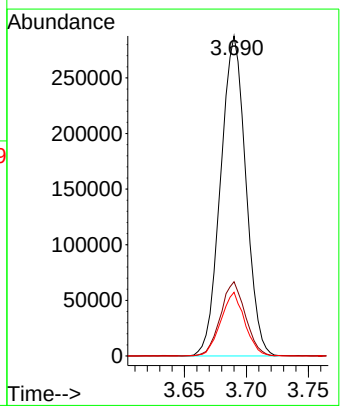
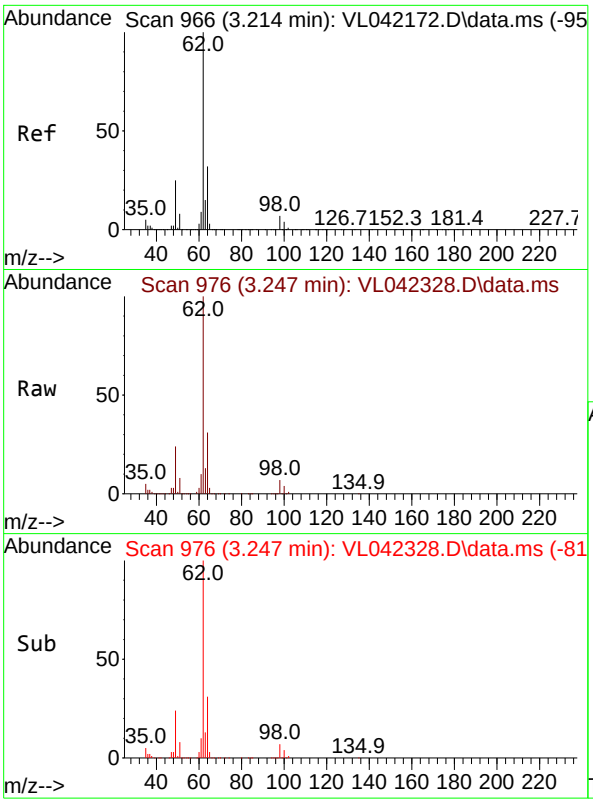



#36
Benzene
Concen: 9.256 ppbv
RT: 3.690 min Scan# 1113
Delta R.T. 0.039 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 78 Resp: 407959

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.1 | 19.1 | 28.7 |
| 50 | 19.9 | 16.6 | 24.8 |

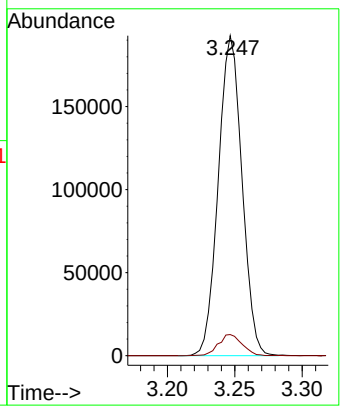





#37
1,2-Dichloroethane
Concen: 9.337 ppbv
RT: 3.247 min Scan# 9
Delta R.T. 0.032 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 62 Resp: 23560

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 6.6 | 5.4 | 8.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

**Manual Integrations**
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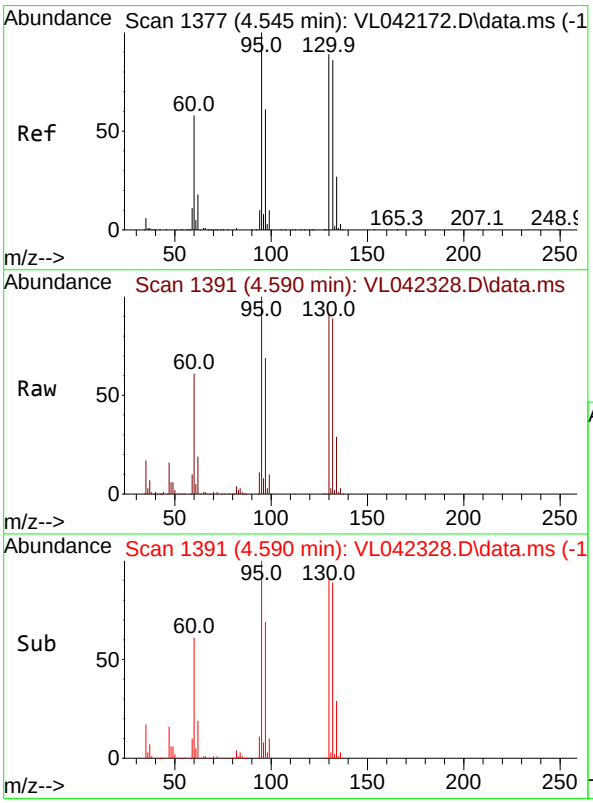
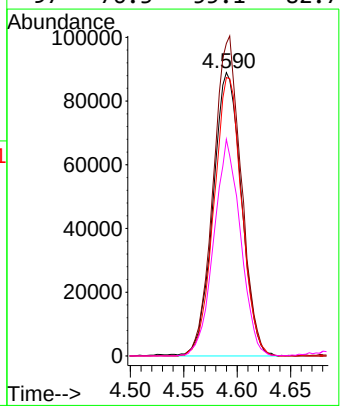
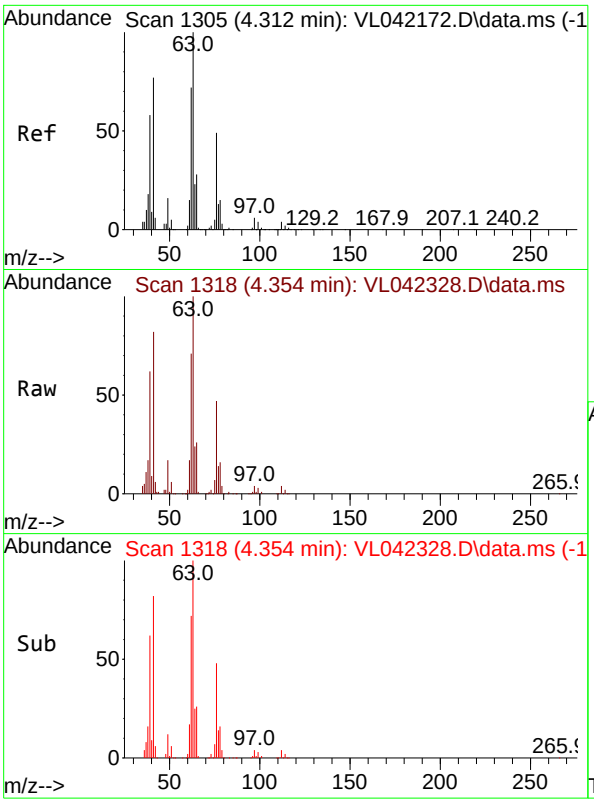



#38
Trichloroethene
Concen: 8.954 ppbv
RT: 4.590 min Scan# 1391
Delta R.T. 0.045 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion:130 Resp: 164664

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 110.3 | 89.8 | 134.8 |
| 132 | 98.2 | 77.4 | 116.2 |
| 97 | 76.3 | 55.1 | 82.7 |






#39
1,2-Dichloropropane
Concen: 9.299 ppbv
RT: 4.354 min Scan# 1
Delta R.T. 0.042 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 63 Resp: 14926

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 81.2 | 61.7 | 92.5 |
| 62 | 71.5 | 57.6 | 86.4 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

**Manual Integrations**
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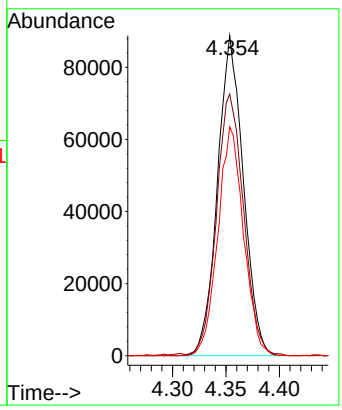
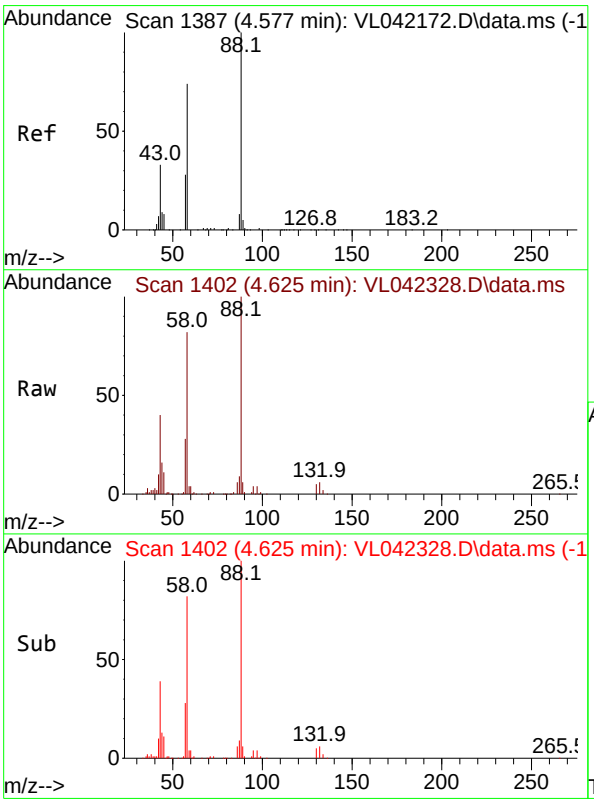
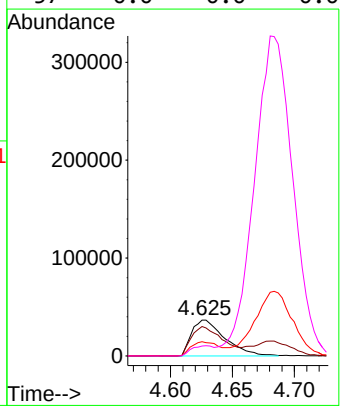


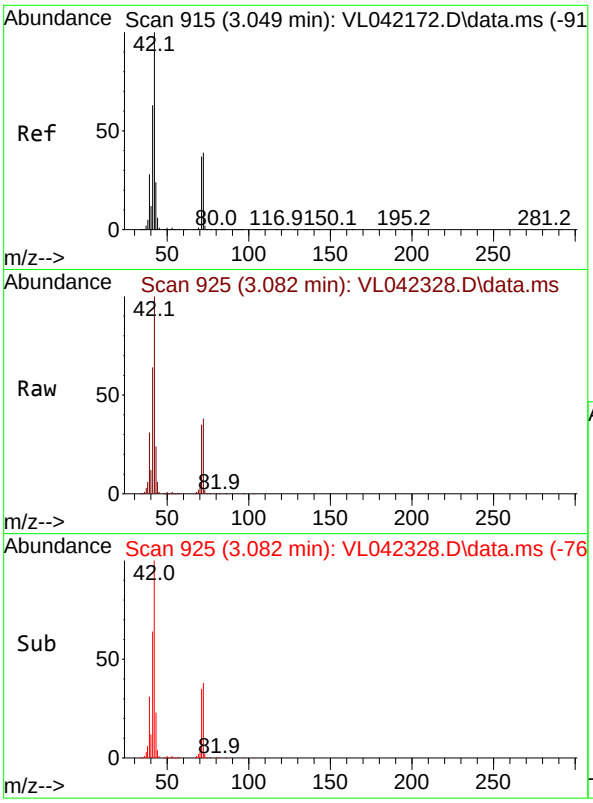




#40
1,4-Dioxane
Concen: 8.072 ppbv
RT: 4.625 min Scan# 1402
Delta R.T. 0.048 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 88 Resp: 68773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 75.9 | 62.7 | 94.1 |
| 43 | 34.0 | 23.0 | 34.4 |
| 57 | 0.0 | 0.0 | 0.0 |






#41
Tetrahydrofuran
Concen: 9.361 ppbv
RT: 3.082 min Scan# 9
Delta R.T. 0.032 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 42 Resp: 17377

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 36.4 | 31.4 | 47.0 |
| 71 | 33.9 | 30.2 | 45.4 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

**Manual Integrations**
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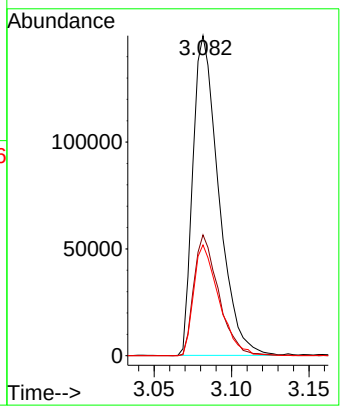
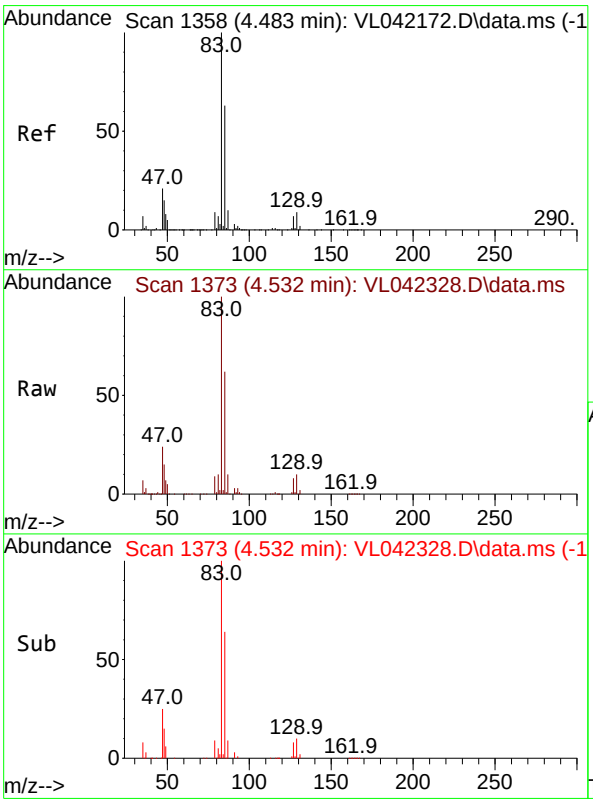
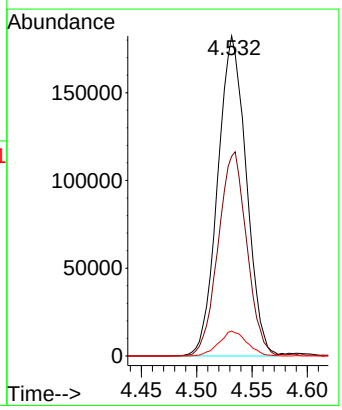


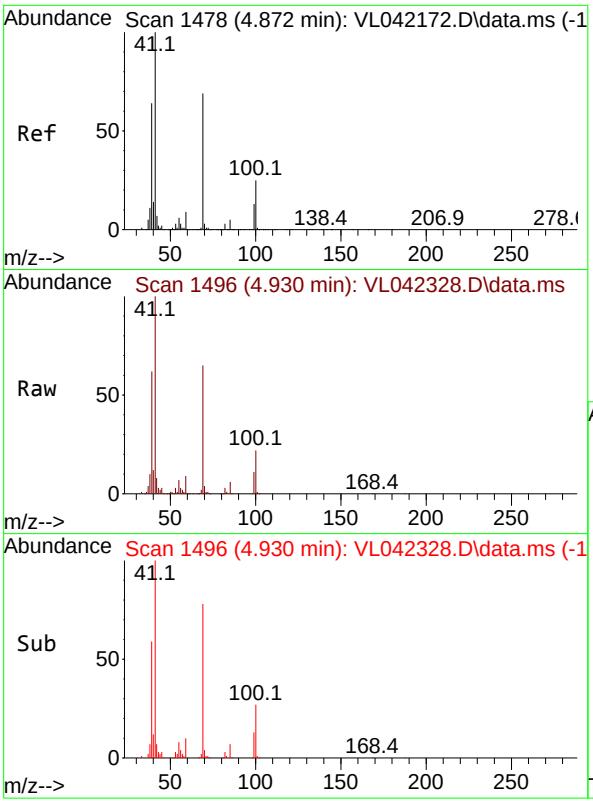




#42
Bromodichloromethane
Concen: 9.414 ppbv
RT: 4.532 min Scan# 1373
Delta R.T. 0.048 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 83 Resp: 327497

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.4 | 50.5 | 75.7 |
| 127 | 7.7 | 5.9 | 8.9 |

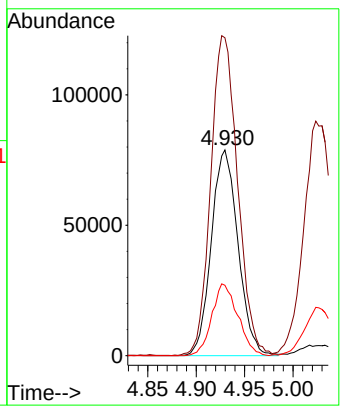





#43
Methyl Methacrylate
Concen: 8.121 ppbv
RT: 4.930 min Scan# 14
Delta R.T. 0.058 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 69 Resp: 15153

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 156.5 | 123.8 | 185.6 |
| 100 | 33.9 | 28.4 | 42.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

**Manual Integrations**
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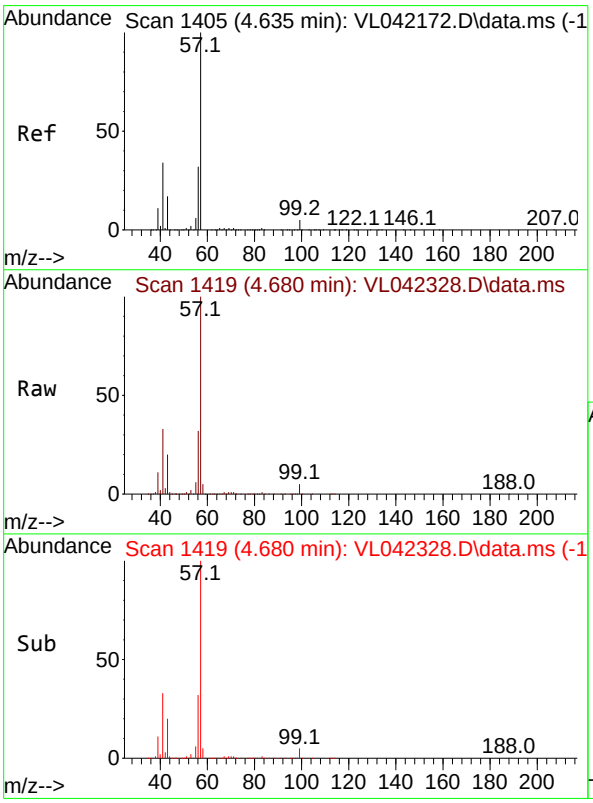
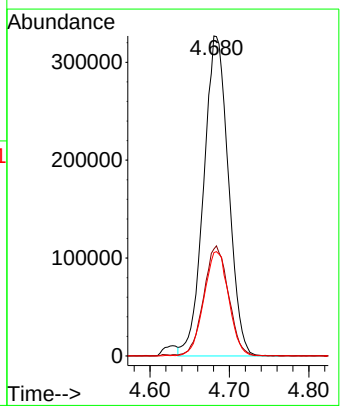
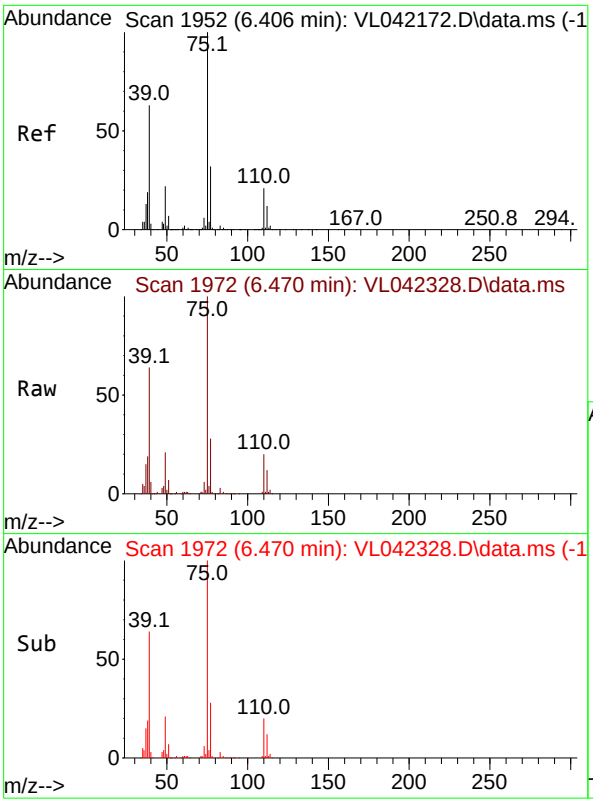



#44
2,2,4-Trimethylpentane
Concen: 9.503 ppbv
RT: 4.680 min Scan# 1419
Delta R.T. 0.045 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 57 Resp: 707832

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 34.7 | 26.8 | 40.2 |
| 56 | 32.7 | 25.6 | 38.4 |

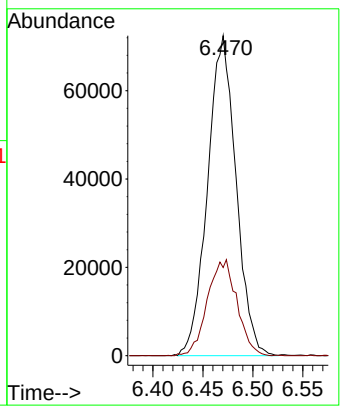





#45
t-1,3-Dichloropropene
Concen: 7.179 ppbv
RT: 6.470 min Scan# 1
Delta R.T. 0.065 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 75 Resp: 14371

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 27.5 | 26.0 | 39.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

**Manual Integrations**
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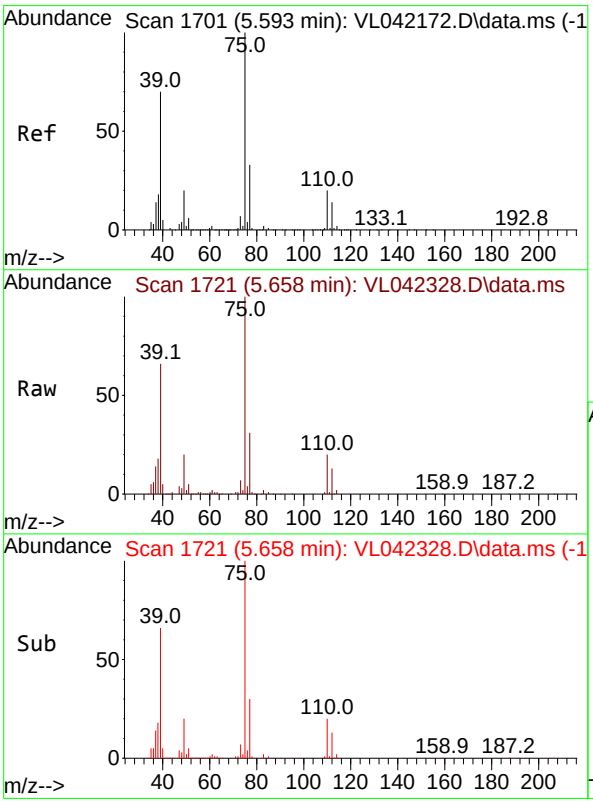
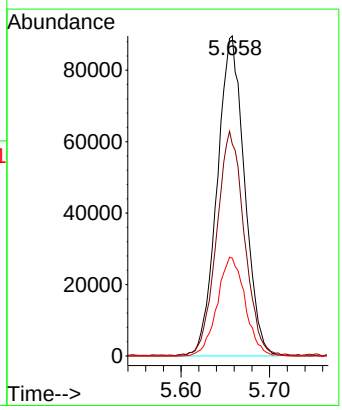
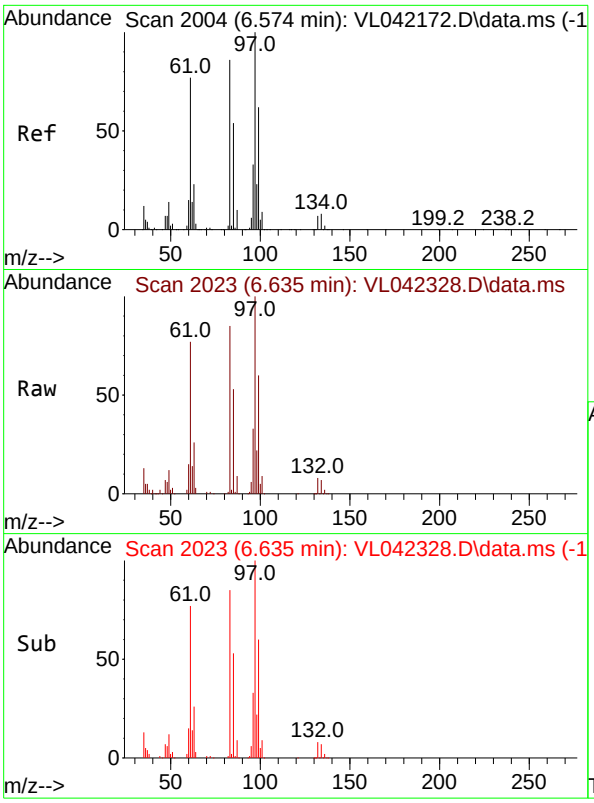



#46
cis-1,3-Dichloropropene
Concen: 7.841 ppbv
RT: 5.658 min Scan# 1721
Delta R.T. 0.065 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 75 Resp: 192419

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 39 | 65.8 | 55.8 | 83.6 |
| 77 | 30.6 | 26.0 | 39.0 |

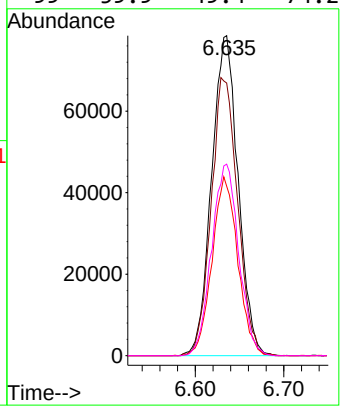





#47
1,1,2-Trichloroethane
Concen: 9.621 ppbv
RT: 6.635 min Scan# 2
Delta R.T. 0.061 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 97 Resp: 16325

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 85.2 | 69.2 | 103.8 |
| 85 | 52.9 | 43.1 | 64.7 |
| 99 | 59.9 | 49.4 | 74.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

**Manual Integrations**
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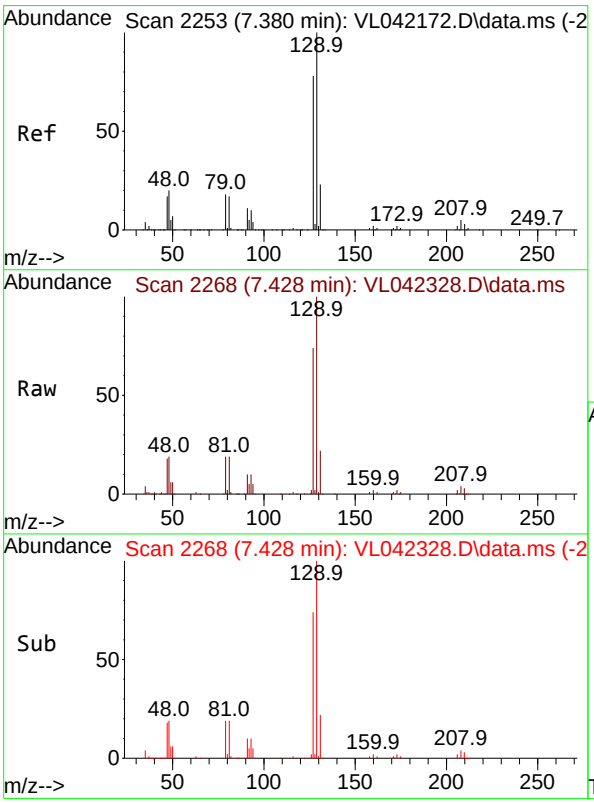
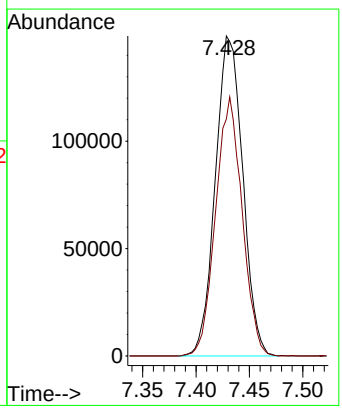
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

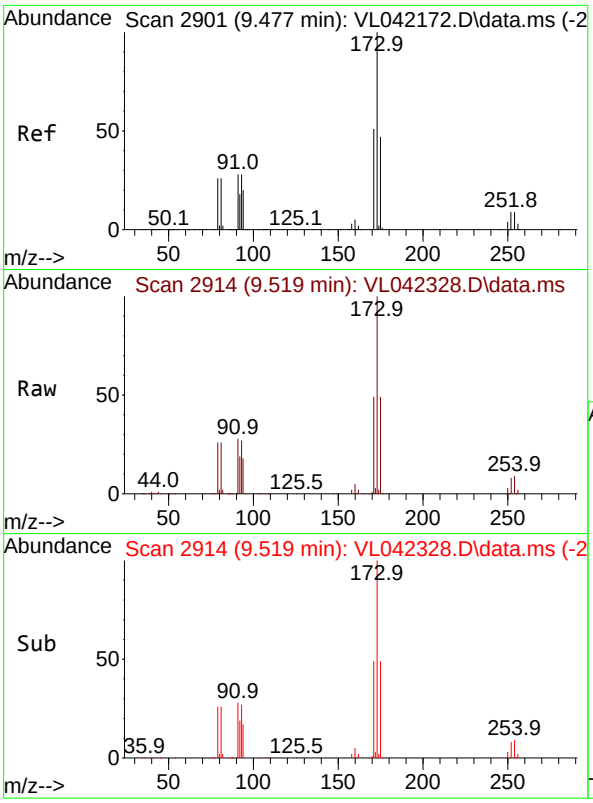



#48
Dibromochloromethane
Concen: 9.256 ppbv
RT: 7.428 min Scan# 2268
Delta R.T. 0.048 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion:129 Resp: 266192

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.3 | 39.1 | 117.2 |

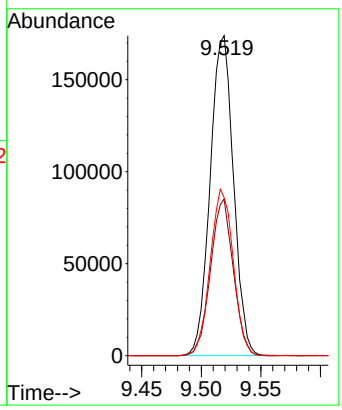





#49
Bromoform
Concen: 9.168 ppbv
RT: 9.519 min Scan# 2
Delta R.T. 0.042 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion:173 Resp: 23668

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 47.8 | 38.6 | 57.8 |
| 171 | 51.4 | 41.8 | 62.6 |




**Instrument :**
MSVOA_L
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VL0415ABS01

**Manual Integrations**
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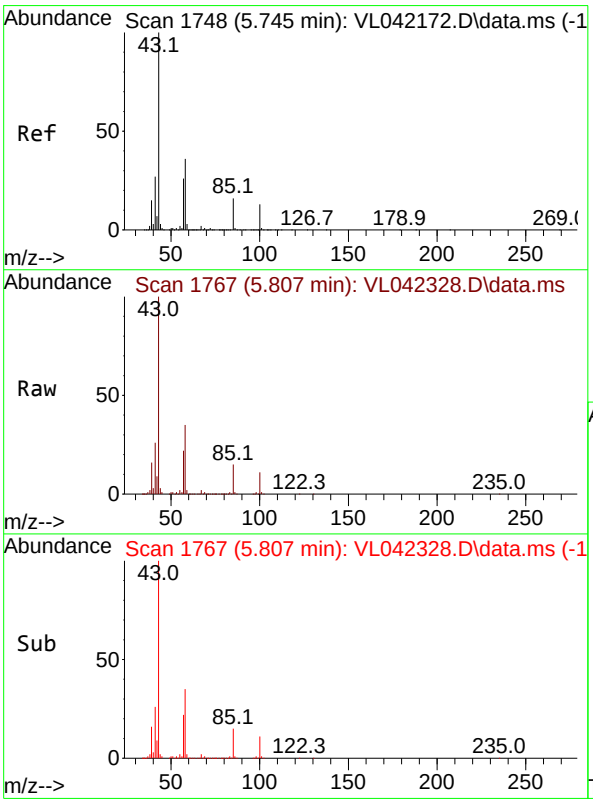
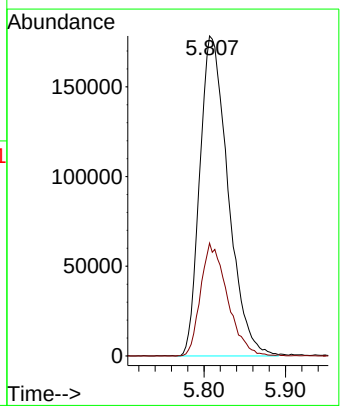
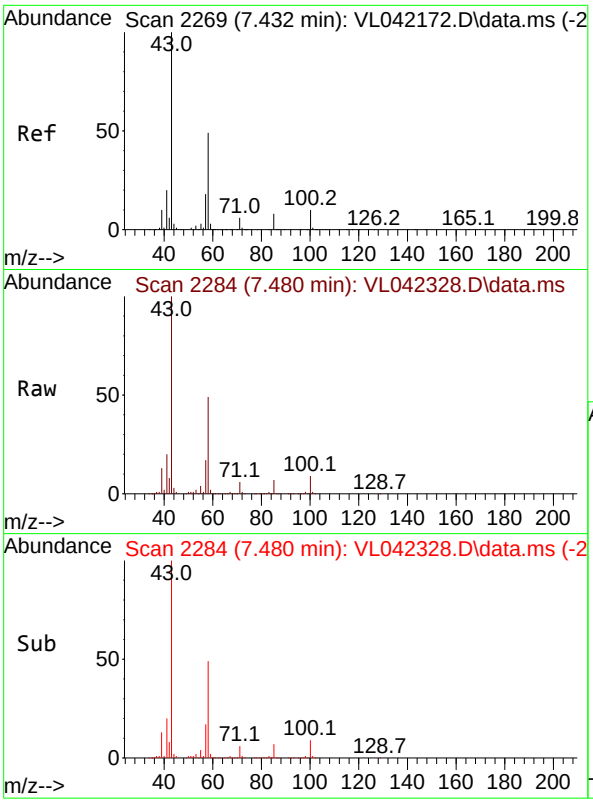



#50
4-Methyl-2-Pentanone
Concen: 8.416 ppbv
RT: 5.807 min Scan# 1767
Delta R.T. 0.061 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 43 Resp: 429988

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 33.5 | 29.0 | 43.6 |

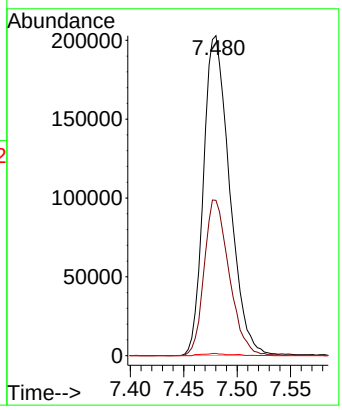





#51
2-Hexanone
Concen: 8.203 ppbv
RT: 7.480 min Scan# 2
Delta R.T. 0.048 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 43 Resp: 34417

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 47.1 | 39.7 | 59.5 |
| 98 | 0.8 | 0.1 | 0.1 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

**Manual Integrations**
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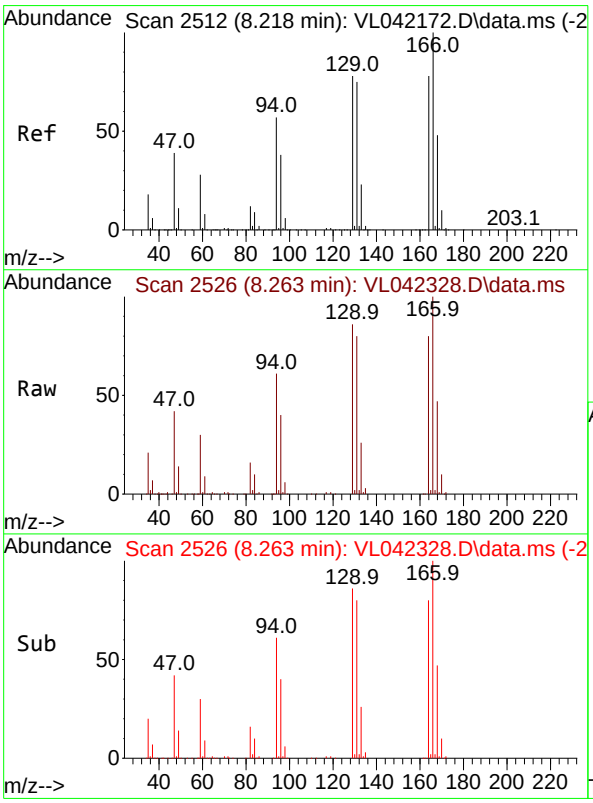
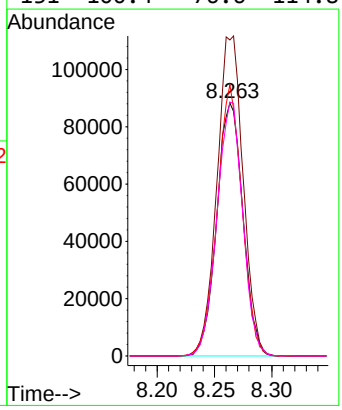
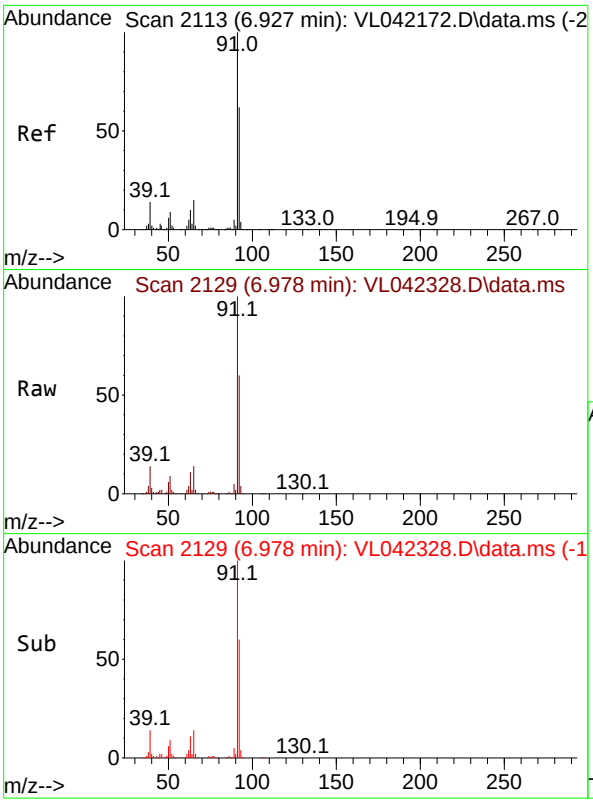



#52
Tetrachloroethene
Concen: 8.000 ppbv
RT: 8.263 min Scan# 2526
Delta R.T. 0.045 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion:164 Resp: 139845

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 124.9 | 102.5 | 153.7 |
| 129 | 107.2 | 79.8 | 119.8 |
| 131 | 100.4 | 76.6 | 114.8 |

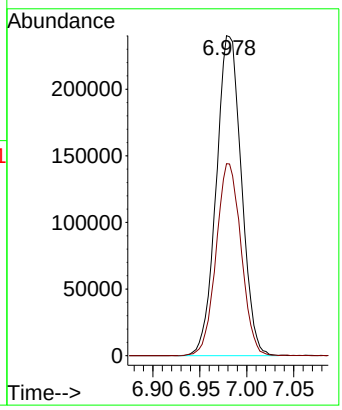





#53
Toluene
Concen: 8.559 ppbv
RT: 6.978 min Scan# 21
Delta R.T. 0.052 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 91 Resp: 44717

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 59.6 | 48.4 | 72.6 |




**Instrument :**
MSVOA_L
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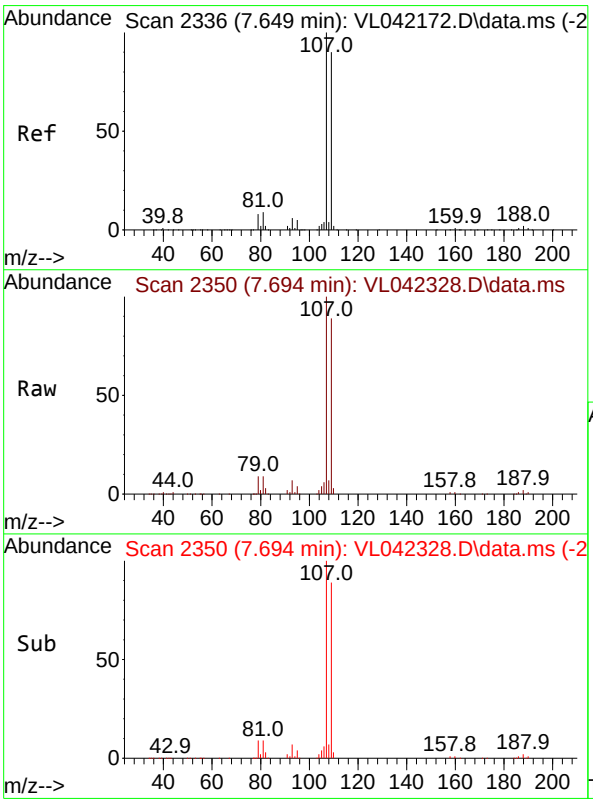
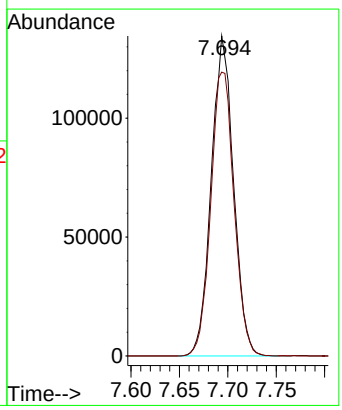
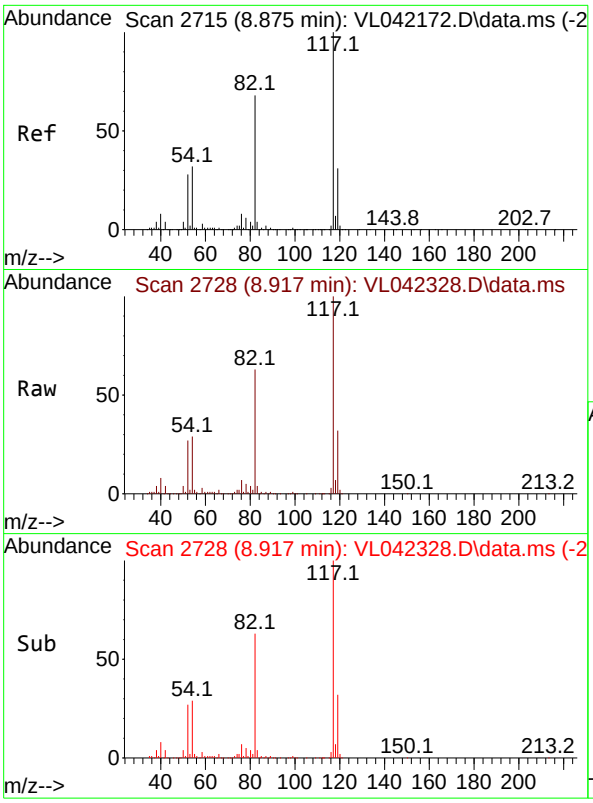



#54
1,2-Dibromoethane
Concen: 9.089 ppbv
RT: 7.694 min Scan# 2350
Delta R.T. 0.045 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion:107 Resp: 214982

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 88.7 | 72.2 | 108.4 |

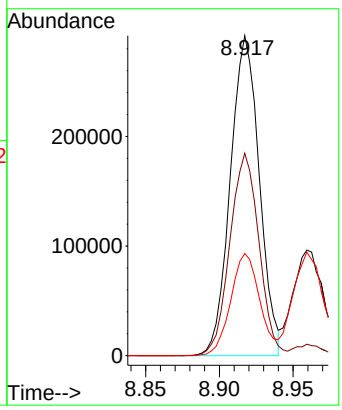





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.917 min Scan# 2
Delta R.T. 0.042 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion:117 Resp: 39960

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 66.8 | 55.8 | 83.6 |
| 119 | 32.4 | 25.5 | 38.3 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

**Manual Integrations**
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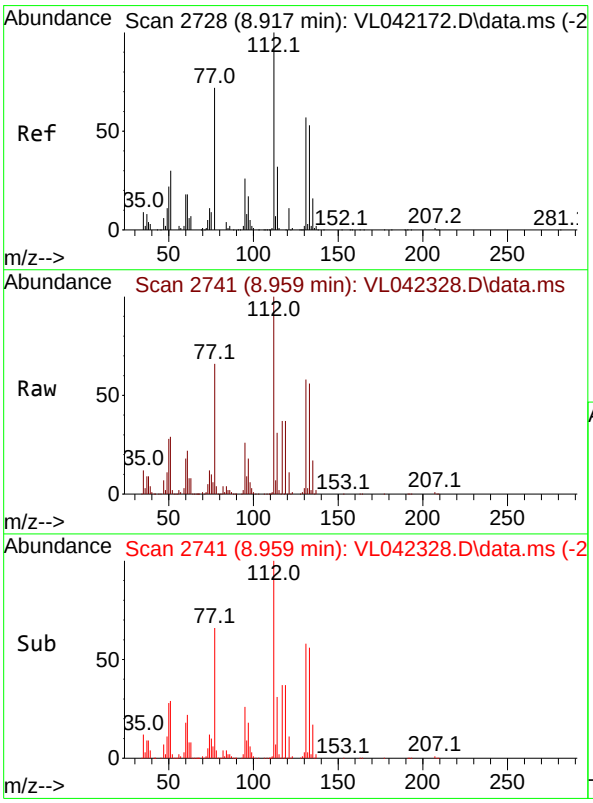
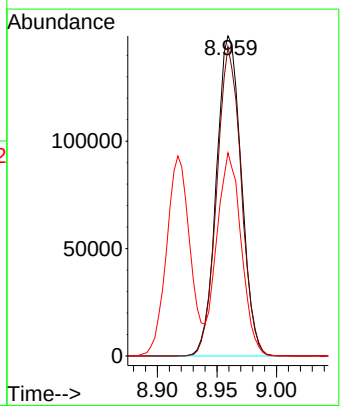
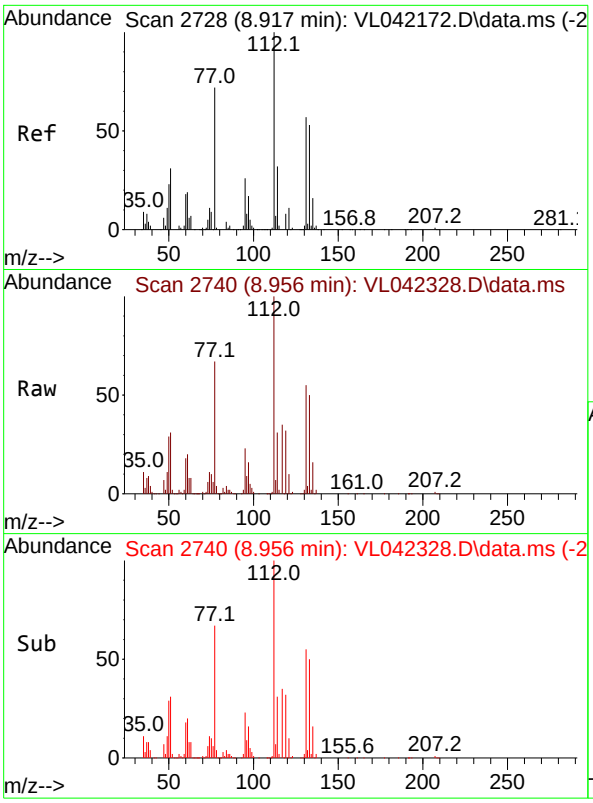



#56
1,1,1,2-Tetrachloroethane
Concen: 9.855 ppbv
RT: 8.959 min Scan# 2741
Delta R.T. 0.042 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion:131 Resp: 216770

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.3 | 76.6 | 114.8 |
| 119 | 59.8 | 49.8 | 74.6 |

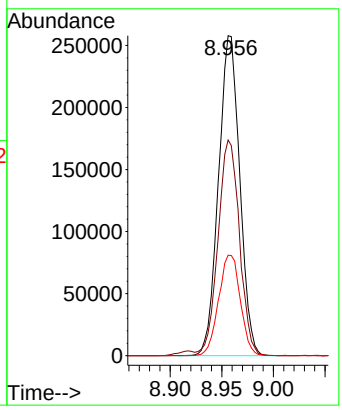





#57
Chlorobenzene
Concen: 9.739 ppbv
RT: 8.956 min Scan# 2
Delta R.T. 0.039 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion:112 Resp: 36913

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 67.4 | 58.2 | 87.2 |
| 114 | 31.4 | 29.1 | 35.5 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

**Manual Integrations**
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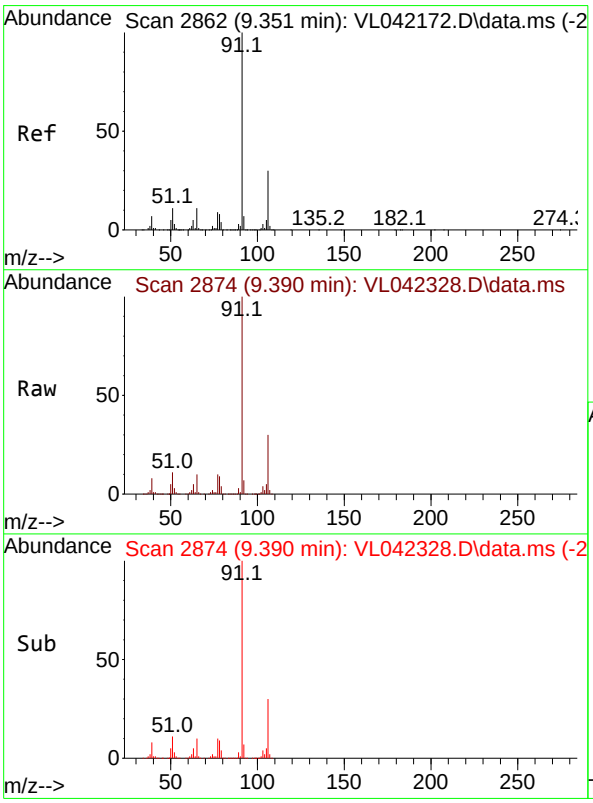
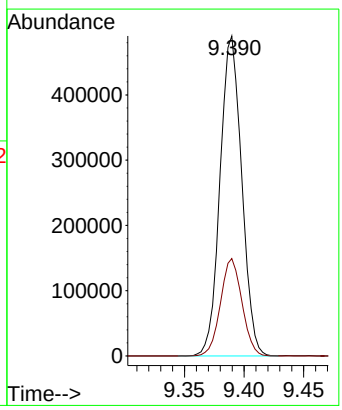
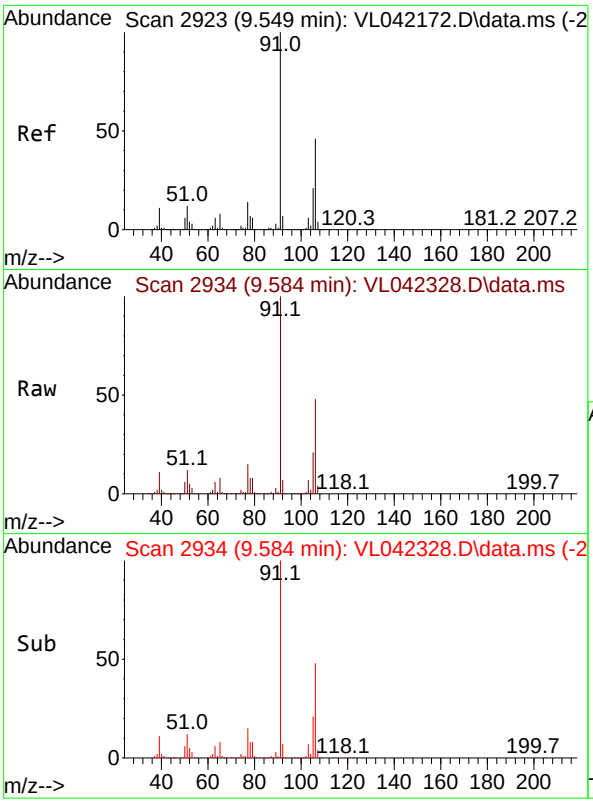



#58
Ethyl Benzene
Concen: 8.716 ppbv
RT: 9.390 min Scan# 2874
Delta R.T. 0.039 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 91 Resp: 618669

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.4 | 24.2 | 36.2 |






#59
m/p-Xylene
Concen: 18.512 ppbv m
RT: 9.584 min Scan# 2
Delta R.T. 0.035 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 91 Resp: 104923

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 47.2 | 36.4 | 54.6 |

**Instrument :**
MSVOA_L
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VL0415ABS01

**Manual Integrations**
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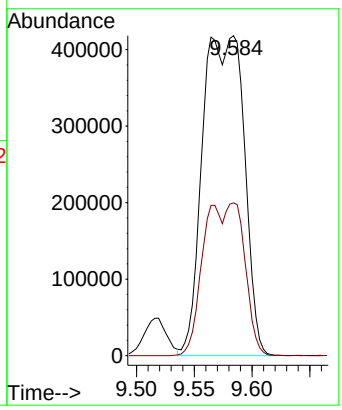
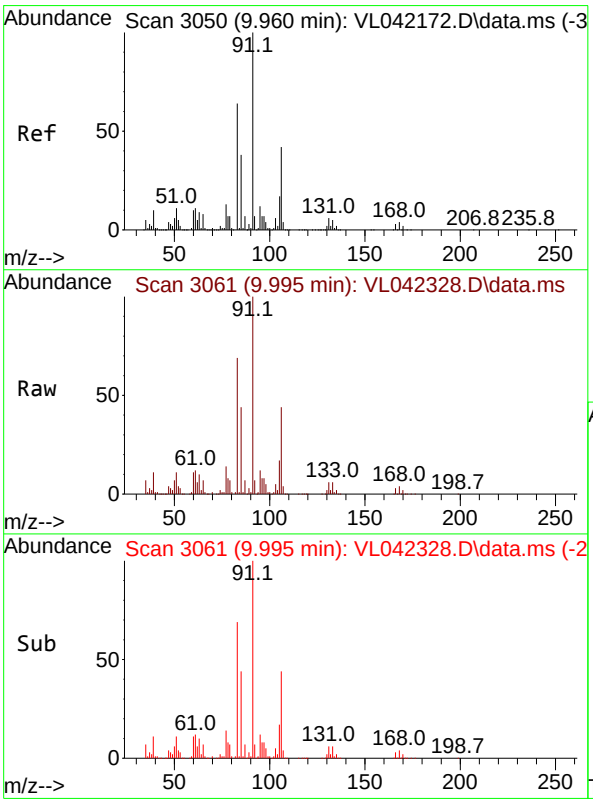
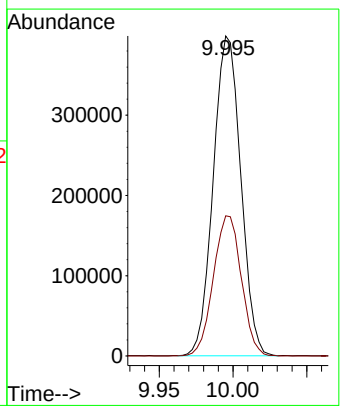


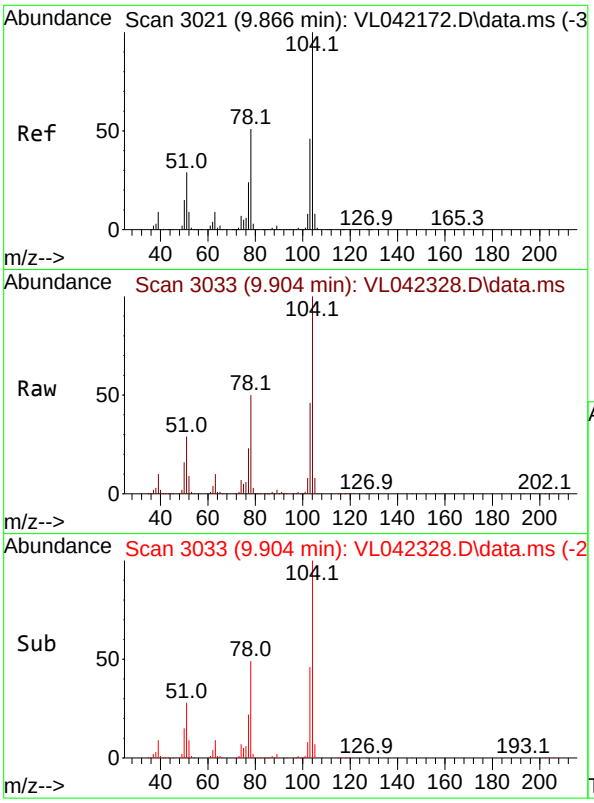




#60
o-Xylene
Concen: 9.107 ppbv
RT: 9.995 min Scan# 3061
Delta R.T. 0.035 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 91 Resp: 517471

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 44.5 | 20.8 | 62.5 |

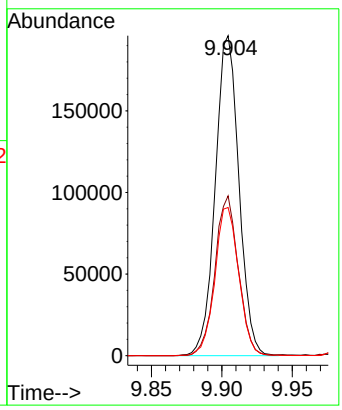





#61
Styrene
Concen: 8.168 ppbv
RT: 9.904 min Scan# 3
Delta R.T. 0.039 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion:104 Resp: 22960

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 49.5 | 41.8 | 62.6 |
| 103 | 47.0 | 37.0 | 55.4 |




**Instrument :**
MSVOA_L
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VL0415ABS01

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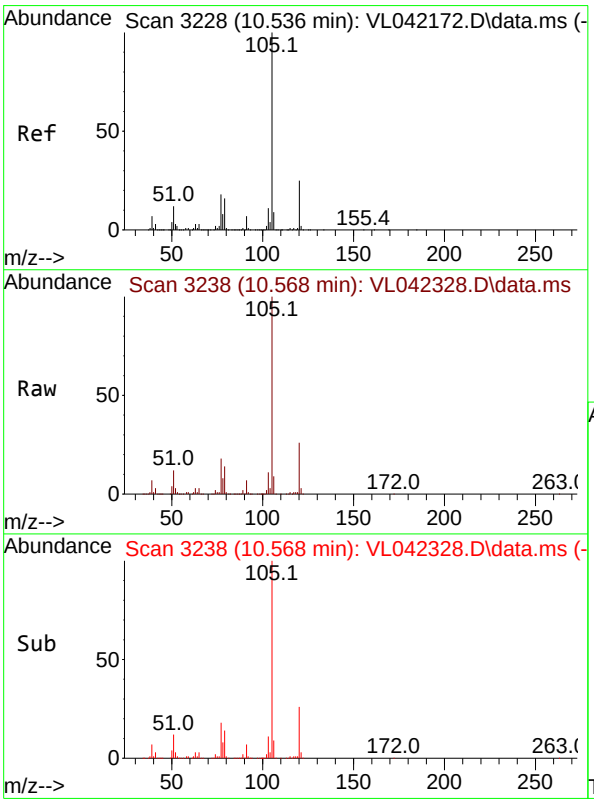
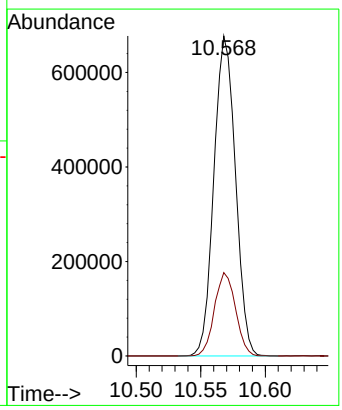
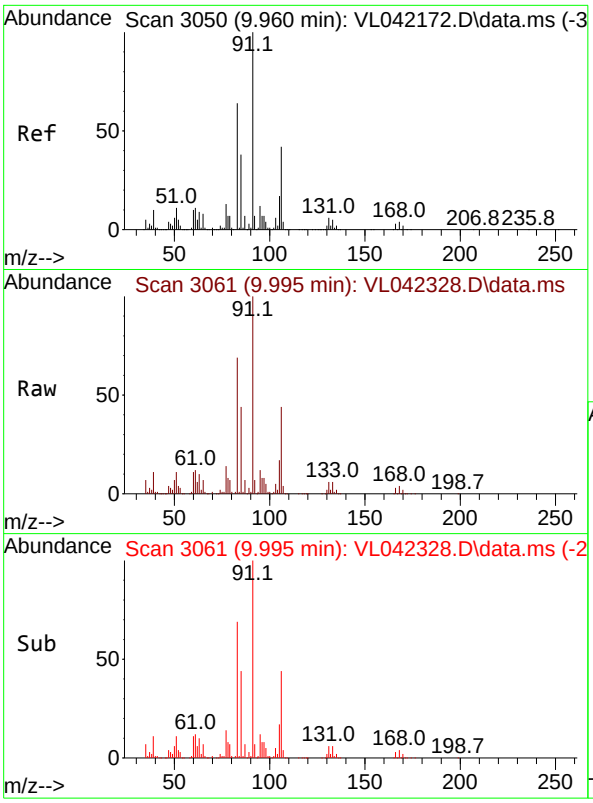



#62
Isopropylbenzene
Concen: 9.247 ppbv
RT: 10.568 min Scan# 3238
Delta R.T. 0.032 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion:105 Resp: 785673

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.5 | 19.9 | 29.9 |

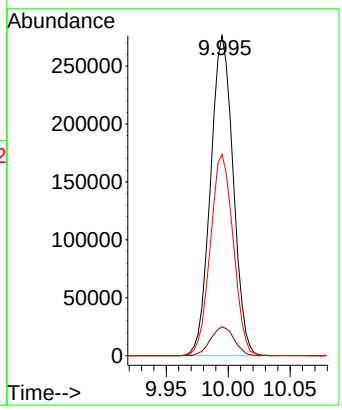





#63
1,1,2,2-Tetrachloroethane
Concen: 10.176 ppbv
RT: 9.995 min Scan# 3
Delta R.T. 0.035 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 83 Resp: 35130

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.4 | 4.8 | 14.4 |
| 85 | 63.9 | 32.5 | 97.5 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
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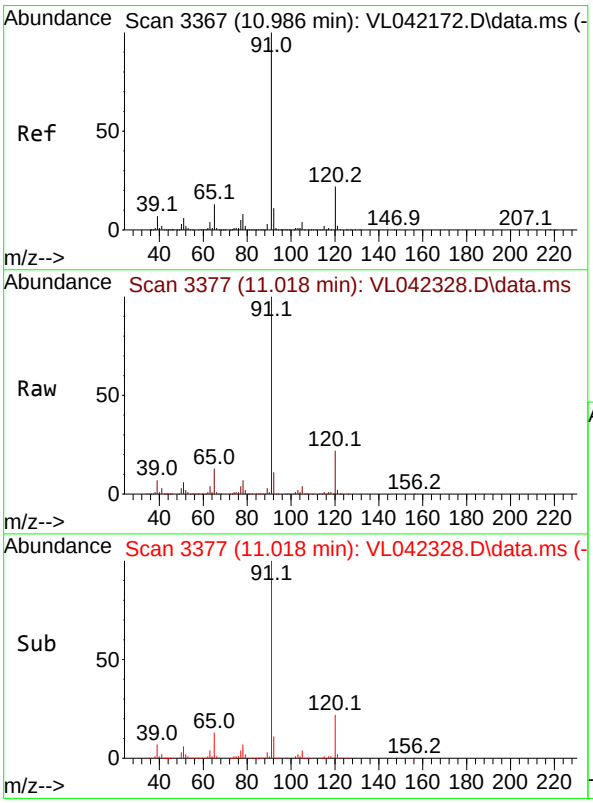
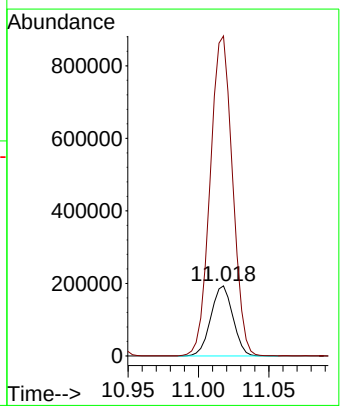
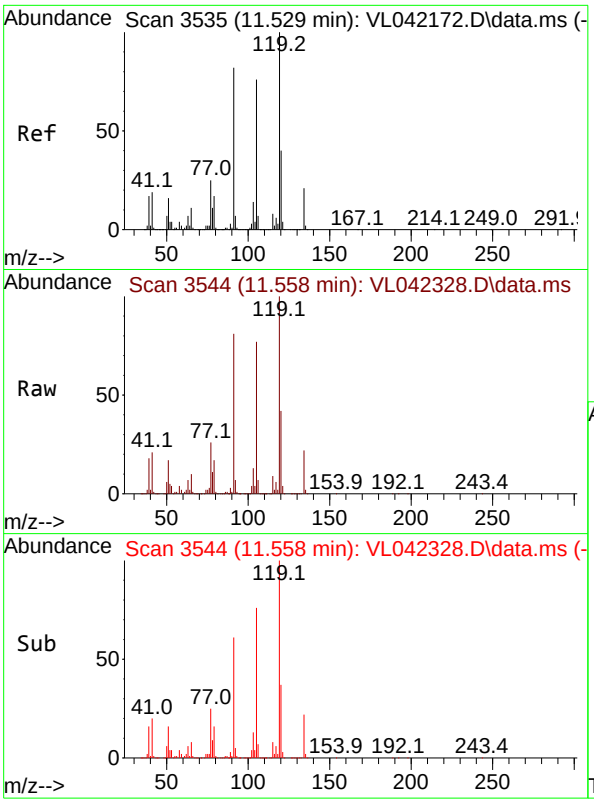



#64
n-propylbenzene
Concen: 9.615 ppbv
RT: 11.018 min Scan# 3377
Delta R.T. 0.032 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion:120 Resp: 210294

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 465.9 | 376.9 | 565.3 |

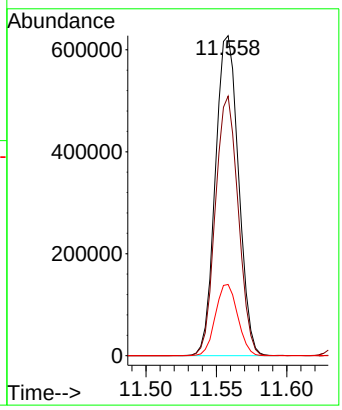





#65
tert-Butylbenzene
Concen: 9.149 ppbv
RT: 11.558 min Scan# 3
Delta R.T. 0.029 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion:119 Resp: 71894

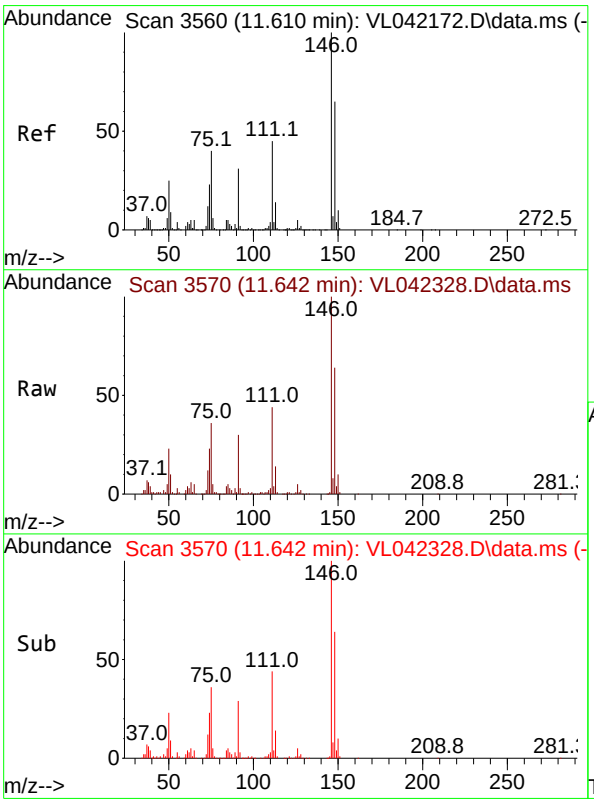
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 79.8 | 66.0 | 99.0 |
| 134 | 21.4 | 16.7 | 25.1 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

**Manual Integrations**
**APPROVED**

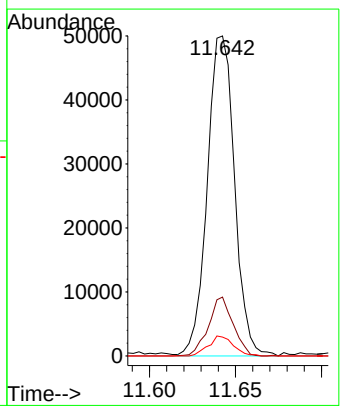
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

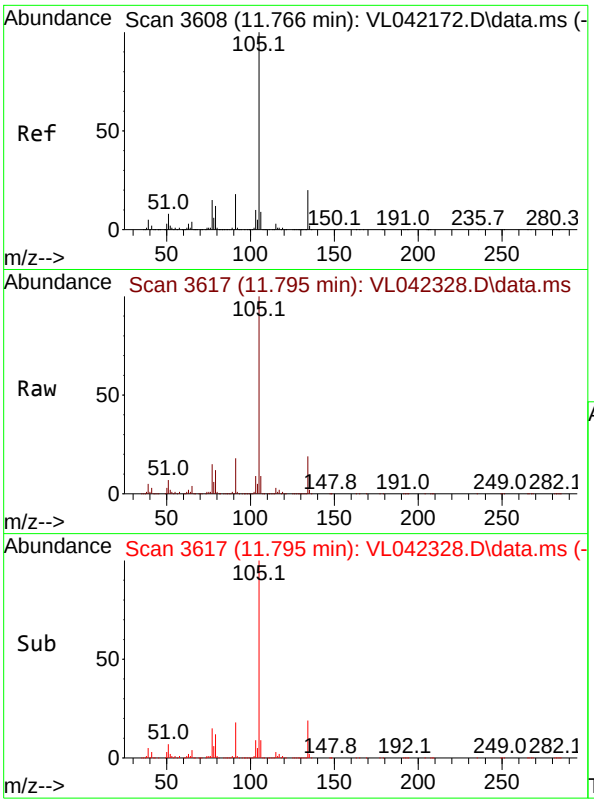



#66
Benzyl Chloride
Concen: 6.614 ppbv
RT: 11.642 min Scan# 3570
Delta R.T. 0.032 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 91 Resp: 55150

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 16.6 | 13.8 | 20.6 |
| 128 | 5.7 | 4.5 | 6.7 |

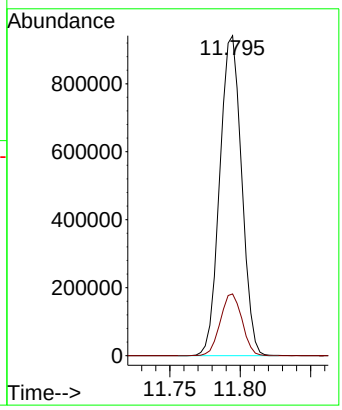





#67
sec-Butylbenzene
Concen: 9.328 ppbv
RT: 11.795 min Scan# 3
Delta R.T. 0.029 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion:105 Resp: 101886

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.2 | 15.5 | 23.3 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

**Manual Integrations**
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Reviewed By :Semsettin Yesilyurt 04/16/2025
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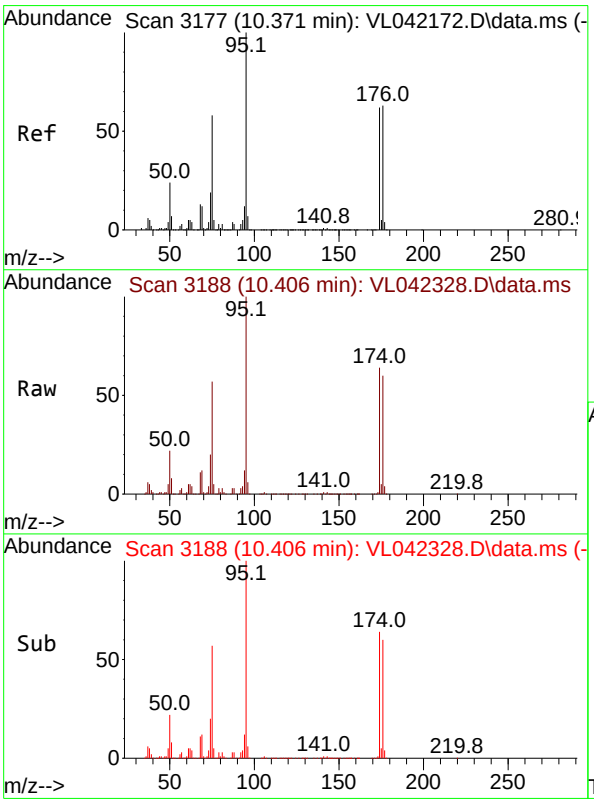
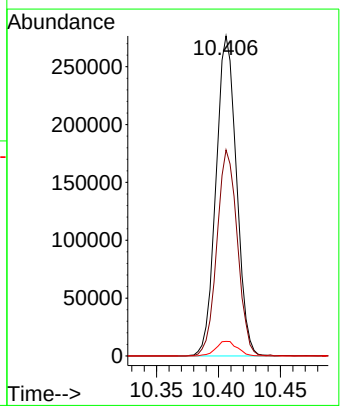
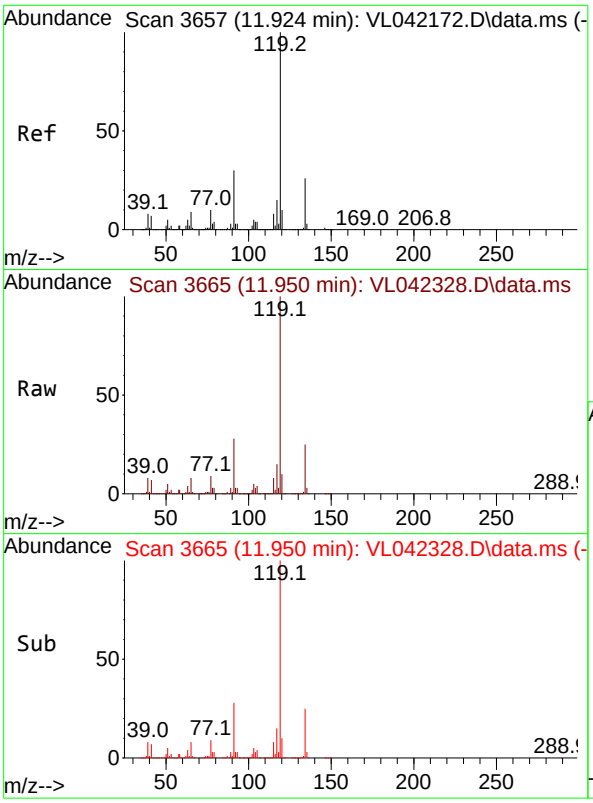



#68
1-Bromo-4-Fluorobenzene
Concen: 9.718 ppbv
RT: 10.406 min Scan# 3188
Delta R.T. 0.035 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 95 Resp: 318902

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 64.4 | 50.6 | 76.0 |
| 175 | 4.8 | 3.8 | 5.6 |

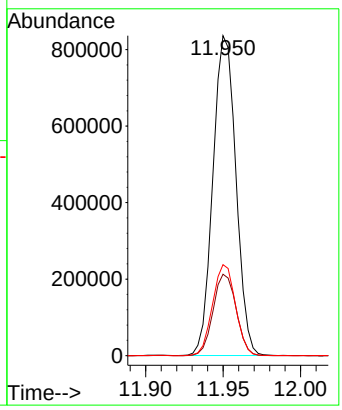





#69
p-Isopropyltoluene
Concen: 9.179 ppbv
RT: 11.950 min Scan# 3
Delta R.T. 0.026 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion:119 Resp: 86326

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.6 | 20.4 | 30.6 |
| 91 | 28.5 | 23.7 | 35.5 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

**Manual Integrations**
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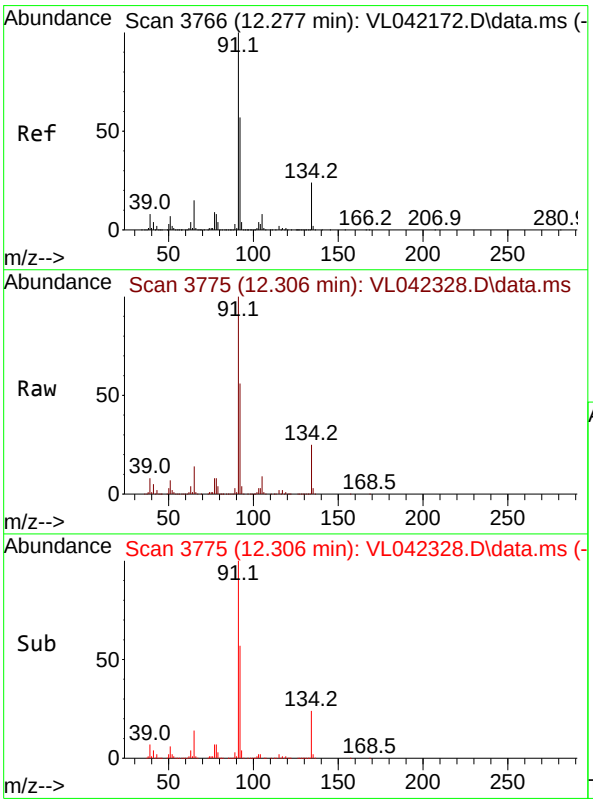
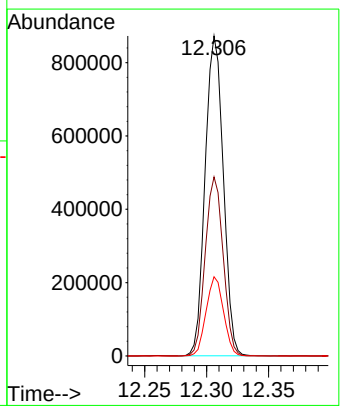
Supervised By :Mahesh Dadoda 04/16/2025

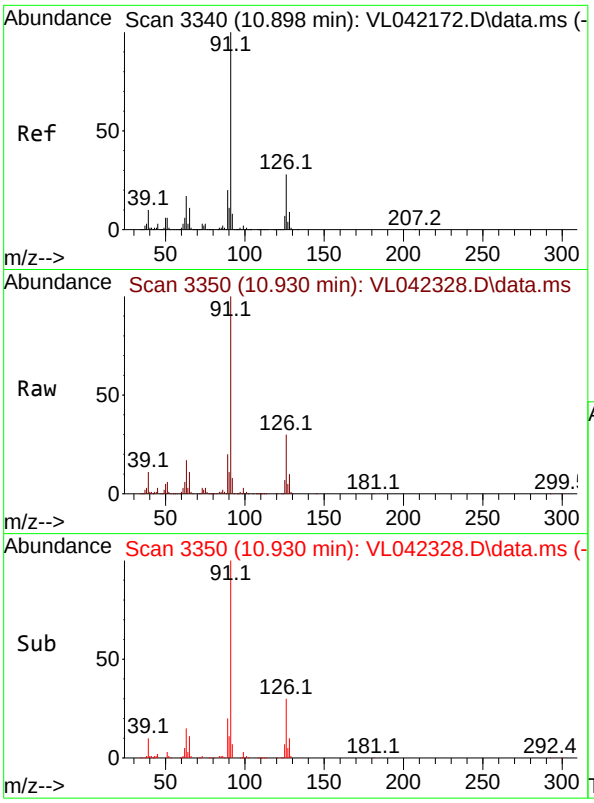



#70
n-Butylbenzene
Concen: 9.273 ppbv
RT: 12.306 min Scan# 3775
Delta R.T. 0.029 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 91 Resp: 891883

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 55.3 | 44.9 | 67.3 |
| 134 | 23.8 | 19.2 | 28.8 |

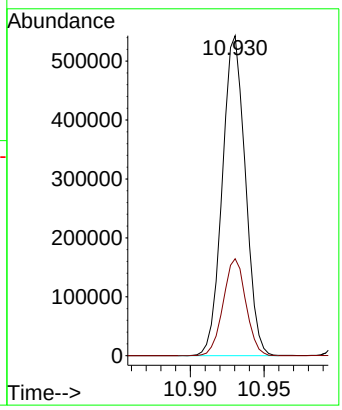





#71
2-Chlorotoluene
Concen: 8.953 ppbv
RT: 10.930 min Scan# 3
Delta R.T. 0.032 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 91 Resp: 59040

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 29.8 | 11.6 | 46.4 |




**Instrument :**
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**ClientSampleId :**
VL0415ABS01

**Manual Integrations**
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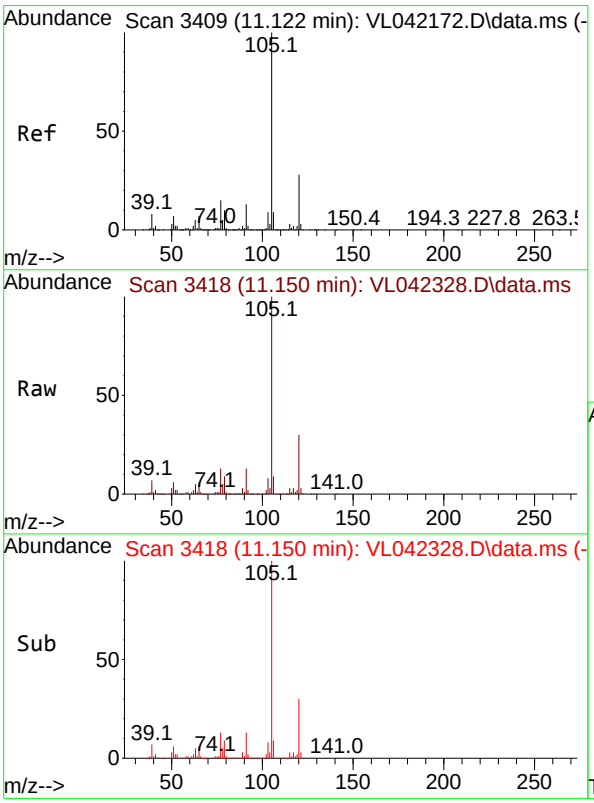
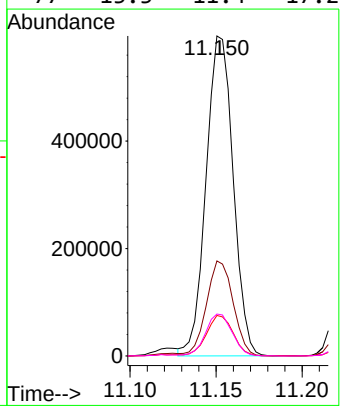
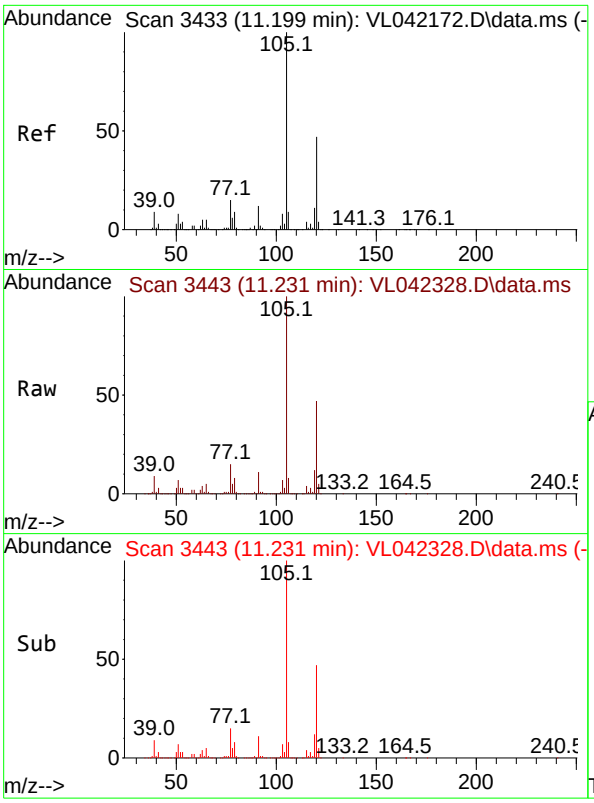



#72
4-Ethyltoluene
Concen: 9.230 ppbv
RT: 11.150 min Scan# 3418
Delta R.T. 0.029 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion:105 Resp: 652962

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 30.0 | 23.4 | 35.0 |
| 91 | 13.0 | 10.3 | 15.5 |
| 77 | 13.3 | 11.4 | 17.2 |

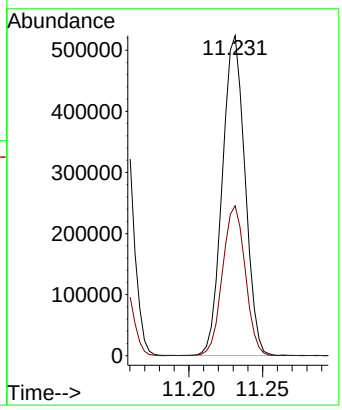





#73
1,3,5-Trimethylbenzene
Concen: 9.055 ppbv
RT: 11.231 min Scan# 34
Delta R.T. 0.032 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion:105 Resp: 55945

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.8 | 37.4 | 56.0 |




**Instrument :**
MSVOA_L
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VL0415ABS01

**Manual Integrations**
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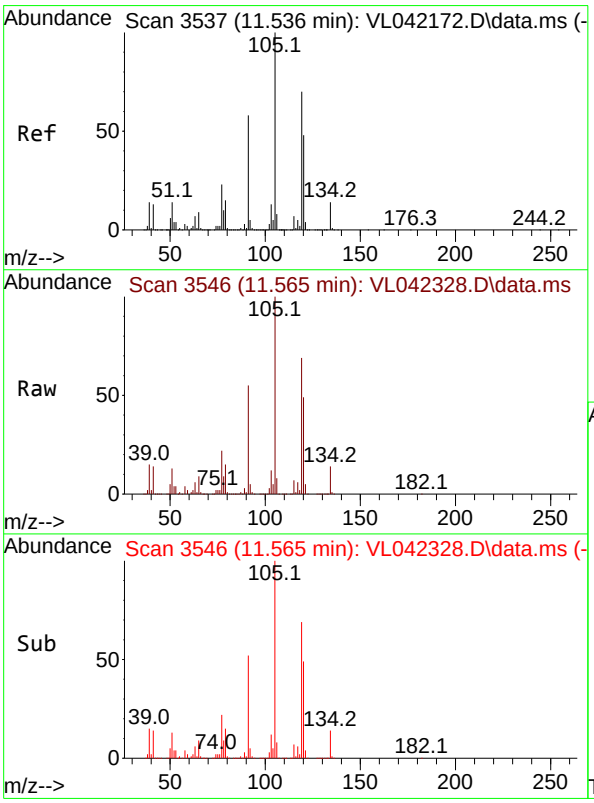
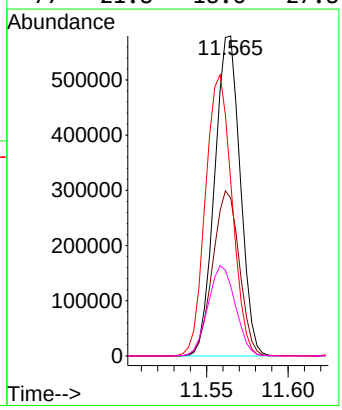
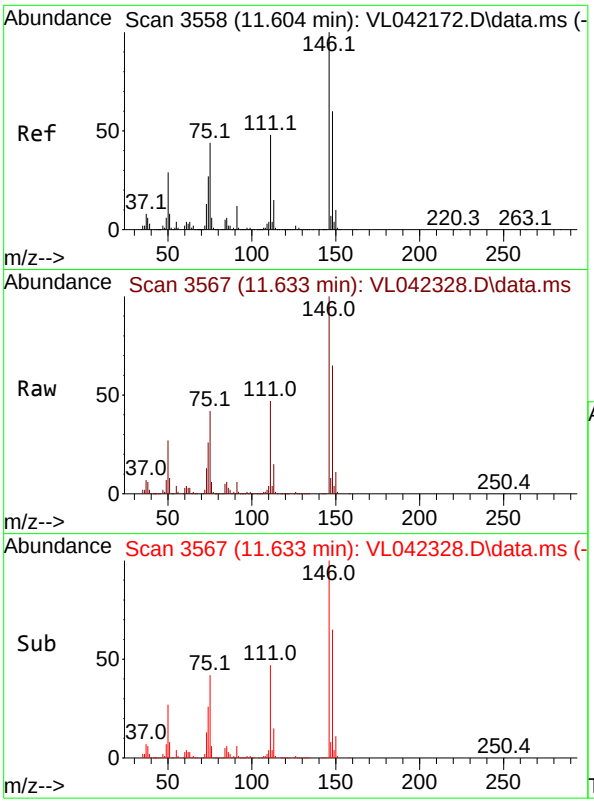



#74
1,2,4-Trimethylbenzene
Concen: 8.883 ppbv
RT: 11.565 min Scan# 3546
Delta R.T. 0.029 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion:105 Resp: 632271

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 49.3 | 38.6 | 58.0 |
| 91 | 54.7 | 46.2 | 69.2 |
| 77 | 21.8 | 18.6 | 27.8 |

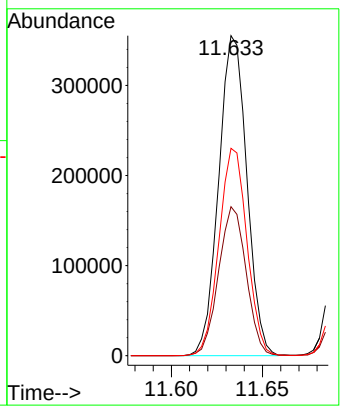





#75
1,3-Dichlorobenzene
Concen: 9.782 ppbv
RT: 11.633 min Scan# 3
Delta R.T. 0.029 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion:146 Resp: 38188

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 45.7 | 23.8 | 71.2 |
| 148 | 64.5 | 31.9 | 95.9 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

**Manual Integrations**
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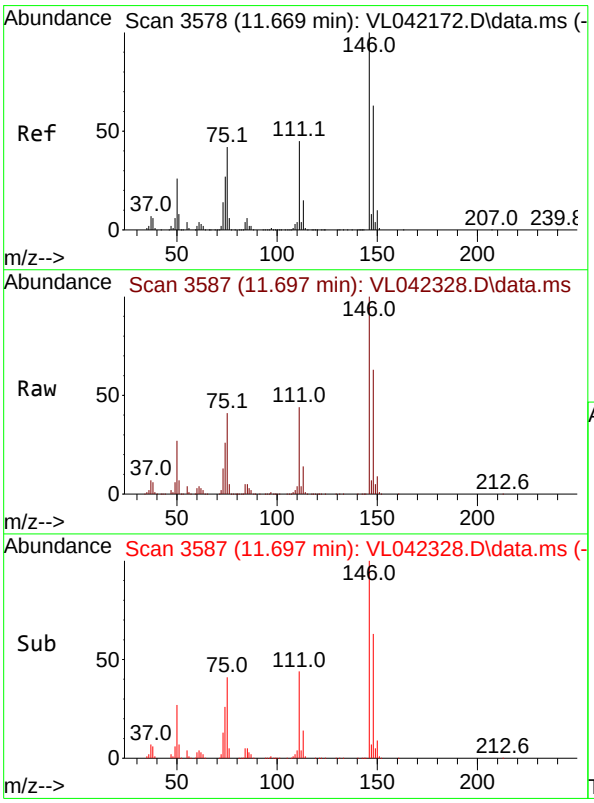
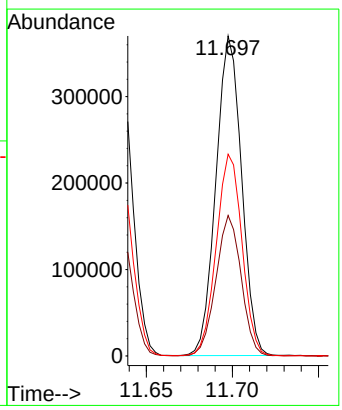
Supervised By :Mahesh Dadoda 04/16/2025

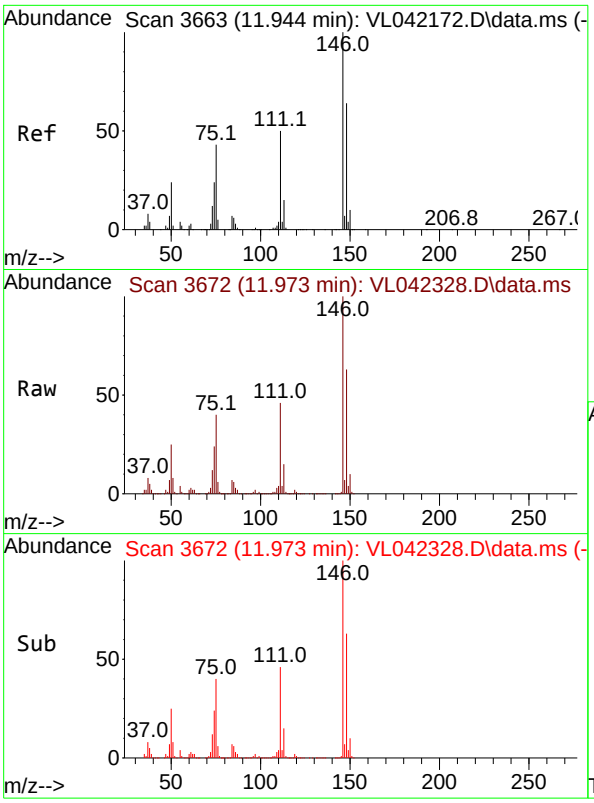



#76
1,4-Dichlorobenzene
Concen: 9.861 ppbv
RT: 11.697 min Scan# 3587
Delta R.T. 0.029 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion:146 Resp: 383116

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.4 | 23.0 | 69.0 |
| 148 | 63.6 | 31.9 | 95.7 |

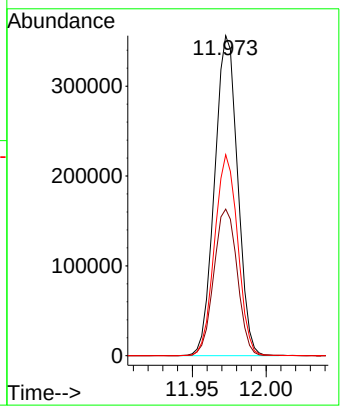





#77
1,2-Dichlorobenzene
Concen: 10.175 ppbv
RT: 11.973 min Scan# 3
Delta R.T. 0.029 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion:146 Resp: 38676

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 46.7 | 24.8 | 74.3 |
| 148 | 63.1 | 31.6 | 94.8 |




**Instrument :**
MSVOA_L
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VL0415ABS01

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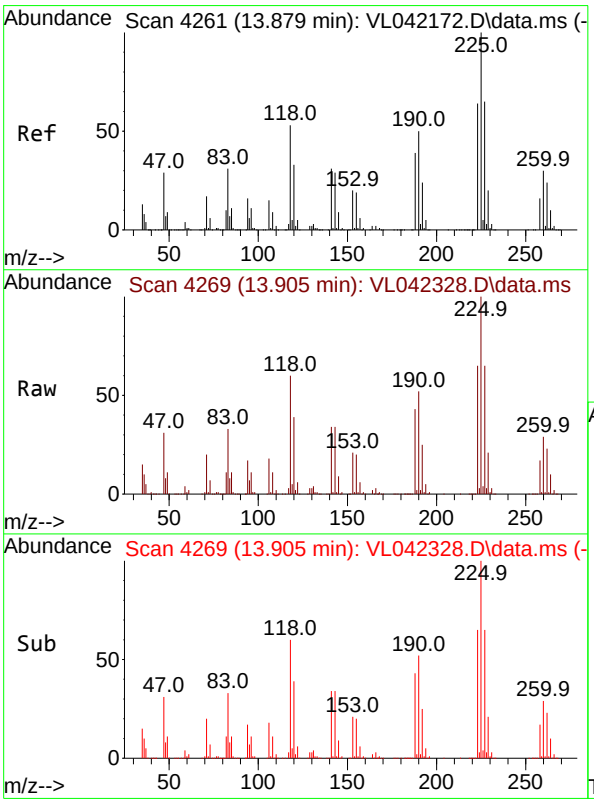
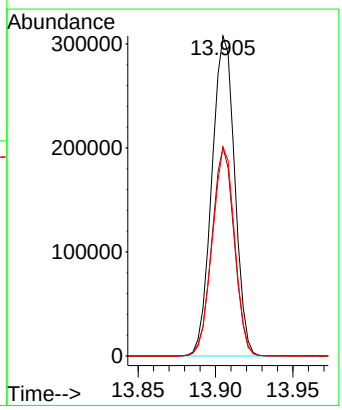
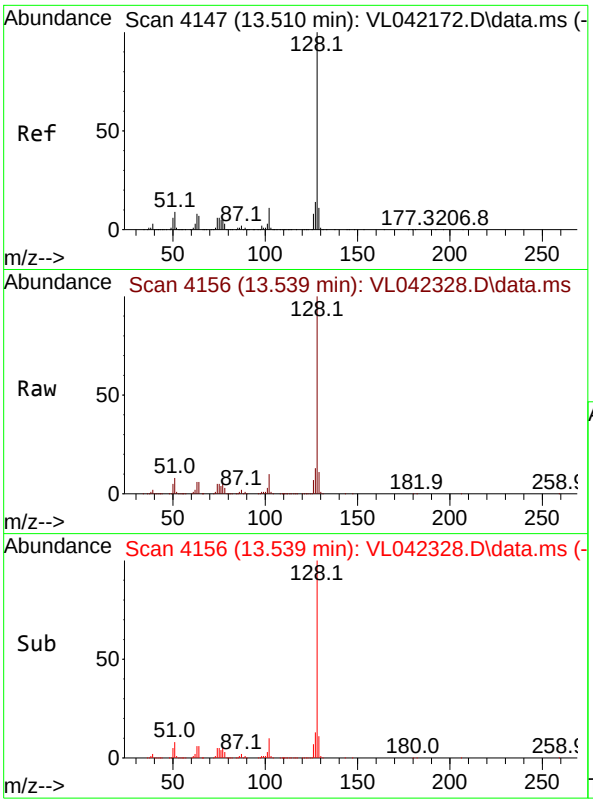



#78
Hexachloro-1,3-Butadiene
Concen: 8.138 ppbv
RT: 13.905 min Scan# 4269
Delta R.T. 0.026 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion:225 Resp: 314860

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.7 | 50.6 | 76.0 |
| 227 | 64.0 | 51.2 | 76.8 |






#79
Naphthalene
Concen: 9.989 ppbv
RT: 13.539 min Scan# 4
Delta R.T. 0.029 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion:128 Resp: 77772

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.0 | 10.8 | 16.2 |
| 129 | 11.2 | 9.0 | 13.4 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

**Manual Integrations**
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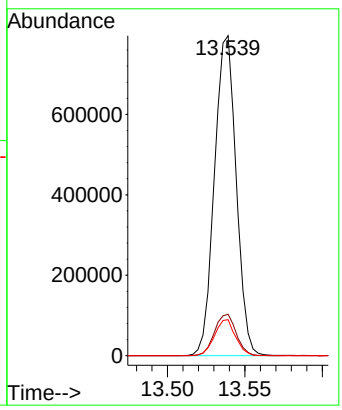
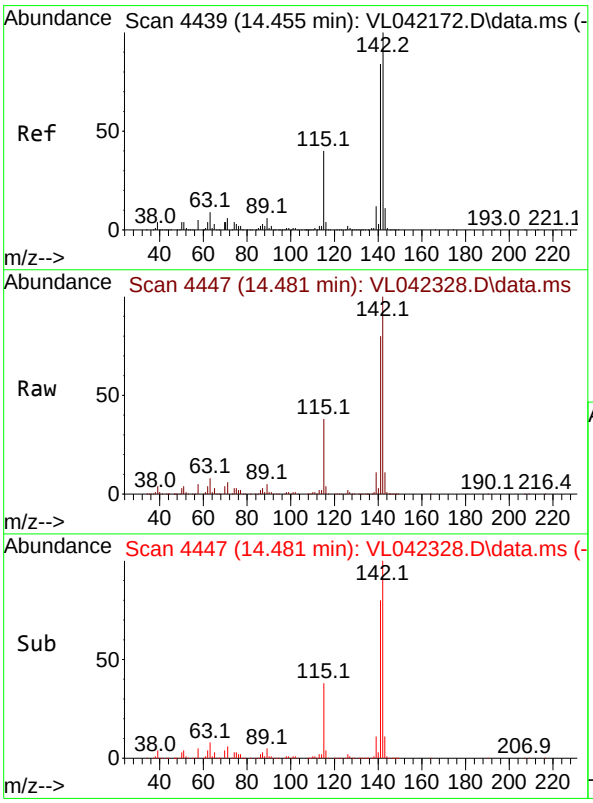
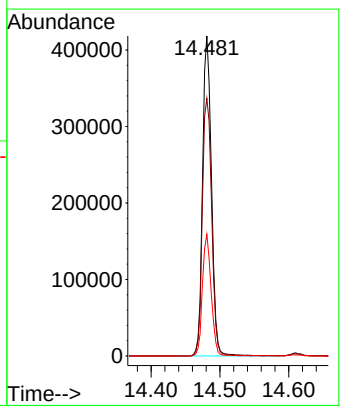


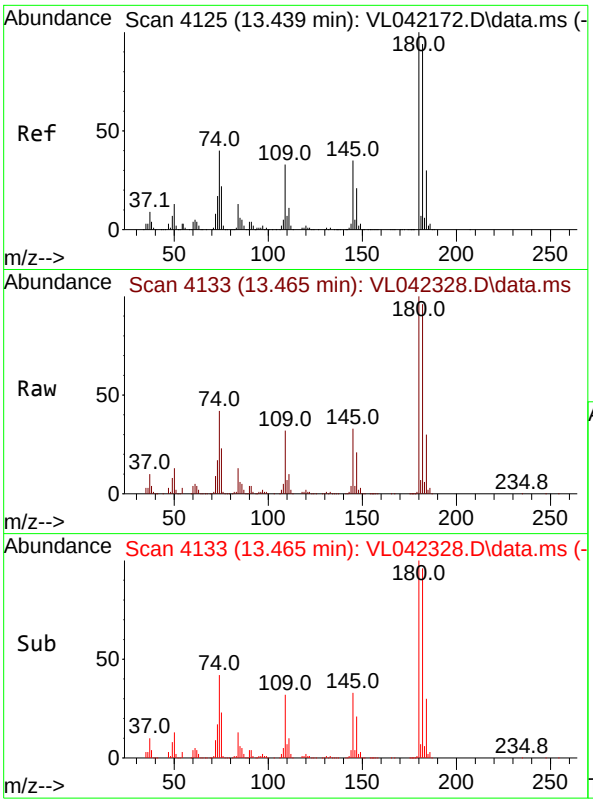




#80
Naphthalene,2-methyl-
Concen: 9.836 ppbv
RT: 14.481 min Scan# 4447
Delta R.T. 0.026 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion:142 Resp: 375541

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 84.5 | 66.3 | 99.5 |
| 115 | 37.5 | 31.6 | 47.4 |

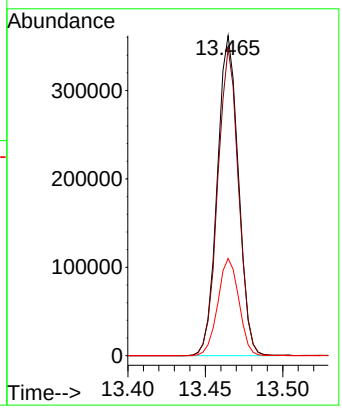





#81
1,2,4-Trichlorobenzene
Concen: 9.551 ppbv
RT: 13.465 min Scan# 4
Delta R.T. 0.026 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion:180 Resp: 34301

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.8 | 75.1 | 112.7 |
| 184 | 30.3 | 24.4 | 36.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/16/2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | |
| Client Sample ID: | VL0417ABS01 | SDG No.: | Q1665 |
| Lab Sample ID: | VL0417ABS01 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042358.D | 1 | | 04/17/25 15:39 | VL041725 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 10.3 | 50.9 | | 1.04 | 2.47 | ug/m3 |
| 64-17-5 | Ethanol | 3.20 | 6.03 | | 0.60 | 0.94 | ug/m3 |
| 74-87-3 | Chloromethane | 10.1 | 20.9 | | 0.21 | 1.03 | ug/m3 |
| 75-01-4 | Vinyl Chloride | 9.00 | 23.0 | | 0.030 | 0.080 | ug/m3 |
| 74-83-9 | Bromomethane | 9.20 | 35.7 | | 0.54 | 1.94 | ug/m3 |
| 75-00-3 | Chloroethane | 10.1 | 26.6 | | 0.45 | 1.32 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | 9.70 | 28.6 | | 0.38 | 1.47 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | 10.1 | 56.8 | | 0.90 | 2.81 | ug/m3 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 10.1 | 77.4 | | 1.23 | 3.83 | ug/m3 |
| 76-14-2 | Dichlorotetrafluoroethane | 10.2 | 71.3 | | 0.63 | 3.49 | ug/m3 |
| 593-60-2 | Bromoethene | 9.80 | 42.9 | | 0.52 | 2.19 | ug/m3 |
| 75-65-0 | tert-Butyl alcohol | 9.80 | 29.7 | | 0.58 | 1.52 | ug/m3 |
| 142-82-5 | Heptane | 9.20 | 37.7 | | 0.45 | 2.05 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | 9.40 | 23.1 | | 0.17 | 1.23 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethene | 9.80 | 38.9 | | 0.56 | 1.98 | ug/m3 |
| 67-64-1 | Acetone | 8.70 | 20.7 | | 0.57 | 1.19 | ug/m3 |
| 75-15-0 | Carbon Disulfide | 10.2 | 31.8 | | 0.50 | 1.56 | ug/m3 |
| 1634-04-4 | Methyl tert-Butyl Ether | 9.50 | 34.3 | | 0.43 | 1.80 | ug/m3 |
| 75-09-2 | Methylene Chloride | 8.90 | 30.9 | | 0.66 | 1.74 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethene | 9.70 | 38.5 | | 0.75 | 1.98 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | 10.2 | 41.3 | | 0.53 | 2.02 | ug/m3 |
| 110-82-7 | Cyclohexane | 10.1 | 34.8 | | 0.76 | 1.72 | ug/m3 |
| 78-93-3 | 2-Butanone | 9.80 | 28.9 | | 0.35 | 1.47 | ug/m3 |
| 56-23-5 | Carbon Tetrachloride | 9.60 | 60.4 | | 0.060 | 0.19 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethene | 10.4 | 41.2 | | 0.36 | 1.98 | ug/m3 |
| 67-66-3 | Chloroform | 10.2 | 49.8 | | 0.39 | 2.44 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | 9.70 | 52.9 | | 0.050 | 0.16 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | 10.0 | 46.7 | | 0.47 | 2.34 | ug/m3 |
| 71-43-2 | Benzene | 10.1 | 32.3 | | 0.29 | 1.60 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | 10.4 | 42.1 | | 0.36 | 2.02 | ug/m3 |
| 79-01-6 | Trichloroethene | 9.30 | 50.0 | | 0.11 | 0.16 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | 9.90 | 45.8 | | 0.51 | 2.31 | ug/m3 |
| 75-27-4 | Bromodichloromethane | 10.3 | 69.0 | | 0.54 | 3.35 | ug/m3 |
| 108-10-1 | 4-Methyl-2-Pentanone | 8.80 | 36.1 | | 0.37 | 2.05 | ug/m3 |
| 108-88-3 | Toluene | 9.80 | 36.9 | | 0.41 | 1.88 | ug/m3 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | |
| Client Sample ID: | VL0417ABS01 | SDG No.: | Q1665 |
| Lab Sample ID: | VL0417ABS01 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042358.D | 1 | | 04/17/25 15:39 | VL041725 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 9.90 | 44.9 | | 0.27 | 2.27 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | 10.1 | 45.9 | | 0.27 | 2.27 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | 10.2 | 55.6 | | 0.38 | 2.73 | ug/m3 |
| 124-48-1 | Dibromochloromethane | 10.3 | 87.8 | | 0.60 | 4.26 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane | 9.90 | 76.1 | | 0.54 | 0.77 | ug/m3 |
| 127-18-4 | Tetrachloroethene | 8.80 | 59.7 | | 0.14 | 0.20 | ug/m3 |
| 108-90-7 | Chlorobenzene | 10.0 | 46.0 | | 0.37 | 2.30 | ug/m3 |
| 100-41-4 | Ethyl Benzene | 10.0 | 43.4 | | 0.52 | 2.17 | ug/m3 |
| 179601-23-1 | m/p-Xylene | 19.8 | 86.0 | | 0.91 | 4.34 | ug/m3 |
| 95-47-6 | o-Xylene | 9.80 | 42.6 | | 0.52 | 2.17 | ug/m3 |
| 100-42-5 | Styrene | 10.1 | 43.0 | | 0.47 | 2.13 | ug/m3 |
| 75-25-2 | Bromoform | 9.90 | 102 | | 0.62 | 5.17 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 8.90 | 61.1 | | 0.070 | 0.21 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | 9.90 | 51.3 | | 0.57 | 2.59 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 9.60 | 47.2 | | 0.54 | 2.46 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 9.00 | 44.3 | | 0.39 | 2.46 | ug/m3 |
| 541-73-1 | 1,3-Dichlorobenzene | 9.50 | 57.1 | | 0.48 | 3.01 | ug/m3 |
| 106-46-7 | 1,4-Dichlorobenzene | 9.40 | 56.5 | | 0.30 | 3.01 | ug/m3 |
| 95-50-1 | 1,2-Dichlorobenzene | 9.50 | 57.1 | | 0.48 | 3.01 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 9.40 | 69.8 | | 0.67 | 3.71 | ug/m3 |
| 87-68-3 | Hexachloro-1,3-Butadiene | 9.10 | 97.1 | | 0.96 | 5.33 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | 9.10 | 20.1 | | 0.29 | 1.11 | ug/m3 |
| 91-20-3 | Naphthalene | 9.00 | 47.2 | | 0.42 | 0.52 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | 9.60 | 47.2 | | 0.59 | 2.46 | ug/m3 |
| 110-54-3 | Hexane | 9.80 | 34.5 | | 0.39 | 1.76 | ug/m3 |
| 107-05-1 | Allyl Chloride | 9.70 | 30.4 | | 0.47 | 1.57 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | 8.70 | 31.4 | | 0.76 | 1.80 | ug/m3 |
| 80-62-6 | Methyl Methacrylate | 9.30 | 38.1 | | 0.37 | 2.05 | ug/m3 |
| **SURROGATES** | | | | | | | |
| 460-00-4 | 1-Bromo-4-Fluorobenzene | 10.1 | | | 70 (65) - 130 (135) | 101% | SPK: 10 |
| **INTERNAL STANDARDS** | | | | | | | |
| 74-97-5 | Bromochloromethane | 122000 | | 2.79 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 352000 | | 3.965 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 322000 | | 8.888 | | | |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | |
| Client Sample ID: | VL0417ABS01 | SDG No.: | Q1665 |
| Lab Sample ID: | VL0417ABS01 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042358.D | 1 | | 04/17/25 15:39 | VL041725 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042358.D
Acq On : 17 Apr 2025 15:39
Operator : SY/MD
Sample : VL0417ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 02:36:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.790 | 49 | 122375 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.965 | 114 | 352201 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.888 | 117 | 321521 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.380 | 95 | 266757 | 10.096 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 101.000% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.499 | 85 | 223505 | 10.337 | ppbv | 97 |
| 3) Chlorodifluoromethane | 1.476 | 51 | 206172 | 10.014 | ppbv | 100 |
| 4) Chloromethane | 1.535 | 50 | 86675 | 10.130 | ppbv | 98 |
| 5) Vinyl Chloride | 1.583 | 62 | 83419 | 8.956 | ppbv | 98 |
| 6) Bromomethane | 1.670 | 94 | 36951 | 9.235 | ppbv | 83 |
| 7) Chloroethane | 1.706 | 64 | 33936 | 10.075 | ppbv | 100 |
| 8) Dichlorotetrafluoroethane | 1.557 | 85 | 189924 | 10.231 | ppbv | 95 |
| 9) Propene | 1.486 | 41 | 88088 | 9.395 | ppbv | 98 |
| 10) Heptane | 4.985 | 43 | 243501 | 9.244 | ppbv | 99 |
| 11) Trichlorofluoromethane | 1.881 | 101 | 206645 | 10.050 | ppbv | 98 |
| 12) 1,1,2-Trichlorotrifluo... | 2.140 | 101 | 169501 | 10.083 | ppbv | 98 |
| 13) Ethanol | 1.722 | 45 | 4837 | 3.246 | ppbv | 88 |
| 14) Bromoethene | 1.784 | 108 | 62214 | 9.818 | ppbv | 98 |
| 15) Acetone | 1.836 | 43 | 175153 | 8.743 | ppbv | 100 |
| 16) 1,3-Butadiene | 1.609 | 39 | 86965 | 9.076 | ppbv | 96 |
| 17) tert-Butyl alcohol | 2.043 | 59 | 242154 | 9.754 | ppbv | 100 |
| 18) 1,1-Dichloroethene | 2.036 | 96 | 77247 | 9.836 | ppbv | 99 |
| 19) Isopropyl Alcohol | 1.887 | 45 | 104123 | 9.356 | ppbv | 94 |
| 20) Methylene Chloride | 2.062 | 84 | 69548 | 8.865 | ppbv | 91 |
| 21) Allyl Chloride | 2.098 | 41 | 134221 | 9.704 | ppbv | 99 |
| 22) trans-1,2-Dichloroethene | 2.344 | 96 | 86323 | 9.653 | ppbv | 97 |
| 23) Vinyl Acetate | 2.467 | 43 | 68337 | 8.427 | ppbv # | 97 |
| 24) 1,1-Dichloroethane | 2.412 | 63 | 173238 | 10.199 | ppbv | 99 |
| 25) Ethyl Acetate | 2.839 | 43 | 488686 | 9.894 | ppbv | 100 |
| 26) Hexane | 2.829 | 57 | 195124 | 9.761 | ppbv | 97 |
| 27) Carbon Disulfide | 2.153 | 76 | 218345 | 10.202 | ppbv | 97 |
| 28) Methyl tert-Butyl Ether | 2.444 | 73 | 124554 | 9.510 | ppbv | 96 |
| 29) Chloroform | 2.852 | 83 | 289294 | 10.239 | ppbv | 99 |
| 30) Cyclohexane | 3.862 | 84 | 163017 | 10.088 | ppbv | 100 |
| 31) cis-1,2-Dichloroethene | 2.726 | 61 | 198108 | 10.424 | ppbv | 98 |
| 32) 1,1,1-Trichloroethane | 3.373 | 97 | 309460 | 9.729 | ppbv | 99 |
| 34) 2-Butanone | 2.561 | 43 | 272600 | 9.787 | ppbv | 99 |
| 35) Carbon Tetrachloride | 3.768 | 117 | 305245 | 9.576 | ppbv | 92 |
| 36) Benzene | 3.661 | 78 | 383239 | 10.088 | ppbv | 98 |
| 37) 1,2-Dichloroethane | 3.224 | 62 | 236611 | 10.377 | ppbv | 99 |
| 38) Trichloroethene | 4.558 | 130 | 153596 | 9.251 | ppbv | 98 |
| 39) 1,2-Dichloropropane | 4.321 | 63 | 139669 | 9.866 | ppbv | 95 |
| 40) 1,4-Dioxane | 4.590 | 88 | 67808 | 8.716 | ppbv # | 95 |
| 41) Tetrahydrofuran | 3.059 | 42 | 157777 | 9.715 | ppbv | 99 |
| 42) Bromodichloromethane | 4.496 | 83 | 327652 | 10.326 | ppbv | 98 |
| 43) Methyl Methacrylate | 4.888 | 69 | 159292 | 9.304 | ppbv | 95 |
| 44) 2,2,4-Trimethylpentane | 4.648 | 57 | 657377 | 10.019 | ppbv | 99 |
| 45) t-1,3-Dichloropropene | 6.422 | 75 | 172514 | 9.864 | ppbv | 91 |

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042358.D
Acq On : 17 Apr 2025 15:39
Operator : SY/MD
Sample : VL0417ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 18 02:36:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.606 | 75 | 216901 | 10.133 | ppbv | | 91 |
| 47) 1,1,2-Trichloroethane | 6.590 | 97 | 146547 | 10.161 | ppbv | | 96 |
| 48) Dibromochloromethane | 7.396 | 129 | 261470 | 10.261 | ppbv | | 100 |
| 49) Bromoform | 9.487 | 173 | 221372 | 9.936 | ppbv | | 99 |
| 50) 4-Methyl-2-Pentanone | 5.758 | 43 | 407804 | 8.810 | ppbv | | 99 |
| 51) 2-Hexanone | 7.441 | 43 | 332646 | 8.013 | ppbv | # | 98 |
| 52) Tetrachloroethene | 8.231 | 164 | 128670 | 8.763 | ppbv | | 96 |
| 53) Toluene | 6.943 | 91 | 447581 | 9.818 | ppbv | | 100 |
| 54) 1,2-Dibromoethane | 7.658 | 107 | 204328 | 9.899 | ppbv | | 97 |
| 56) 1,1,1,2-Tetrachloroethane | 8.930 | 131 | 199945 | 10.275 | ppbv | | 96 |
| 57) Chlorobenzene | 8.927 | 112 | 335143 | 10.022 | ppbv | | 99 |
| 58) Ethyl Benzene | 9.361 | 91 | 635446 | 9.975 | ppbv | | 97 |
| 59) m/p-Xylene | 9.555 | 91 | 1016404m | 19.806 | ppbv | | |
| 60) o-Xylene | 9.969 | 91 | 506535 | 9.802 | ppbv | | 99 |
| 61) Styrene | 9.875 | 104 | 248022 | 10.055 | ppbv | | 99 |
| 62) Isopropylbenzene | 10.545 | 105 | 745571 | 9.827 | ppbv | | 99 |
| 63) 1,1,2,2-Tetrachloroethane | 9.969 | 83 | 298581 | 8.916 | ppbv | | 100 |
| 64) n-propylbenzene | 10.995 | 120 | 188310 | 9.875 | ppbv | | 95 |
| 65) tert-Butylbenzene | 11.536 | 119 | 668687 | 9.589 | ppbv | | 93 |
| 66) Benzyl Chloride | 11.620 | 91 | 69058 | 9.012 | ppbv | | 96 |
| 67) sec-Butylbenzene | 11.772 | 105 | 930426 | 9.592 | ppbv | | 100 |
| 69) p-Isopropyltoluene | 11.931 | 119 | 795532 | 9.441 | ppbv | | 99 |
| 70) n-Butylbenzene | 12.287 | 91 | 846427 | 9.644 | ppbv | | 100 |
| 71) 2-Chlorotoluene | 10.905 | 91 | 591154 | 9.934 | ppbv | | 99 |
| 72) 4-Ethyltoluene | 11.131 | 105 | 606879 | 9.606 | ppbv | | 99 |
| 73) 1,3,5-Trimethylbenzene | 11.209 | 105 | 533060 | 9.557 | ppbv | | 98 |
| 74) 1,2,4-Trimethylbenzene | 11.542 | 105 | 584747 | 8.976 | ppbv | | 96 |
| 75) 1,3-Dichlorobenzene | 11.613 | 146 | 320811 | 9.474 | ppbv | | 99 |
| 76) 1,4-Dichlorobenzene | 11.675 | 146 | 319376 | 9.384 | ppbv | | 100 |
| 77) 1,2-Dichlorobenzene | 11.953 | 146 | 311460 | 9.459 | ppbv | | 99 |
| 78) Hexachloro-1,3-Butadiene | 13.886 | 225 | 303379 | 9.124 | ppbv | | 99 |
| 79) Naphthalene | 13.517 | 128 | 701010 | 8.999 | ppbv | | 99 |
| 80) Naphthalene,2-methyl- | 14.462 | 142 | 369891 | 8.331 | ppbv | | 98 |
| 81) 1,2,4-Trichlorobenzene | 13.445 | 180 | 315002 | 9.417 | ppbv | | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

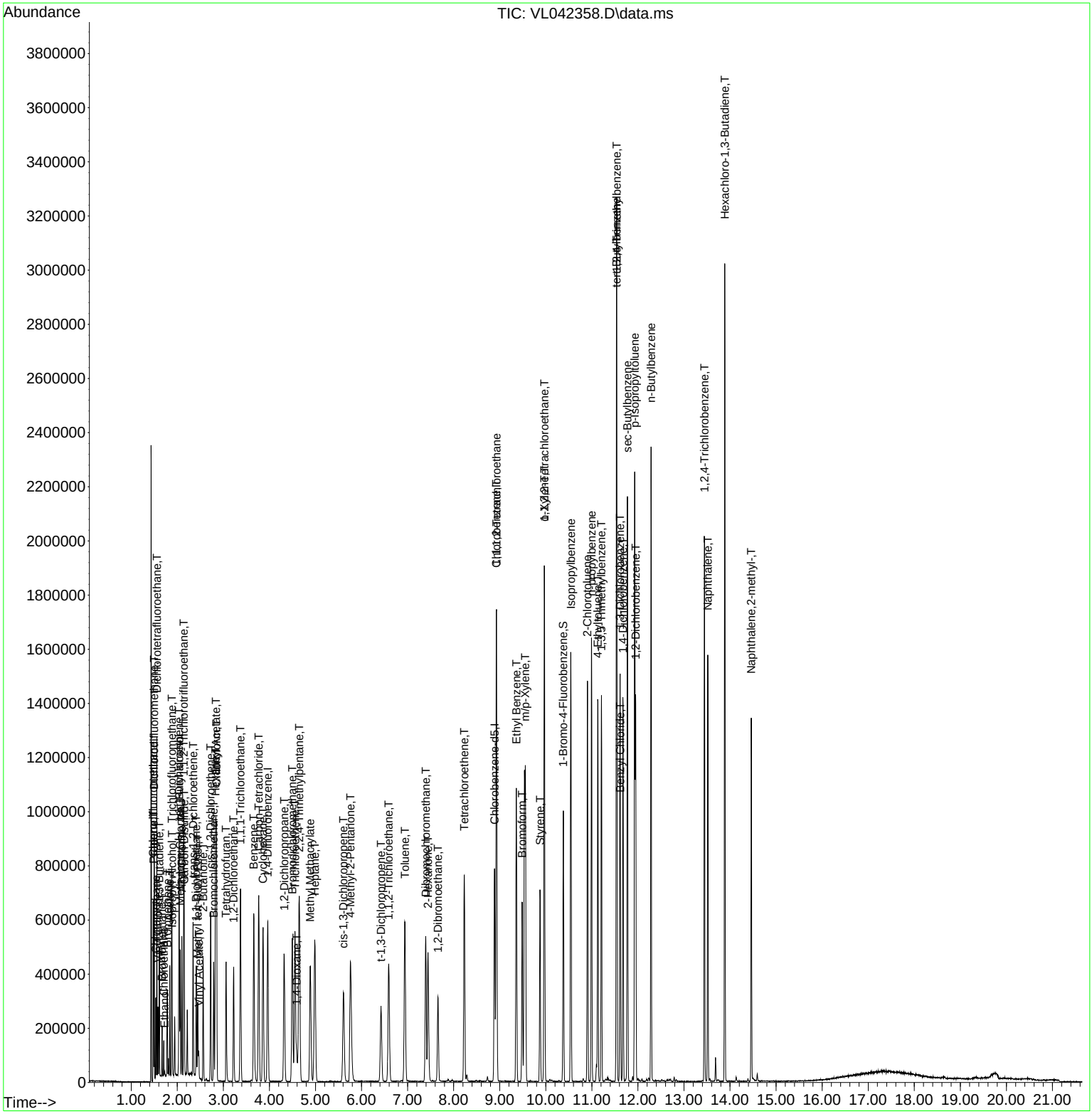
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042358.D
Acq On : 17 Apr 2025 15:39
Operator : SY/MD
Sample : VL0417ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

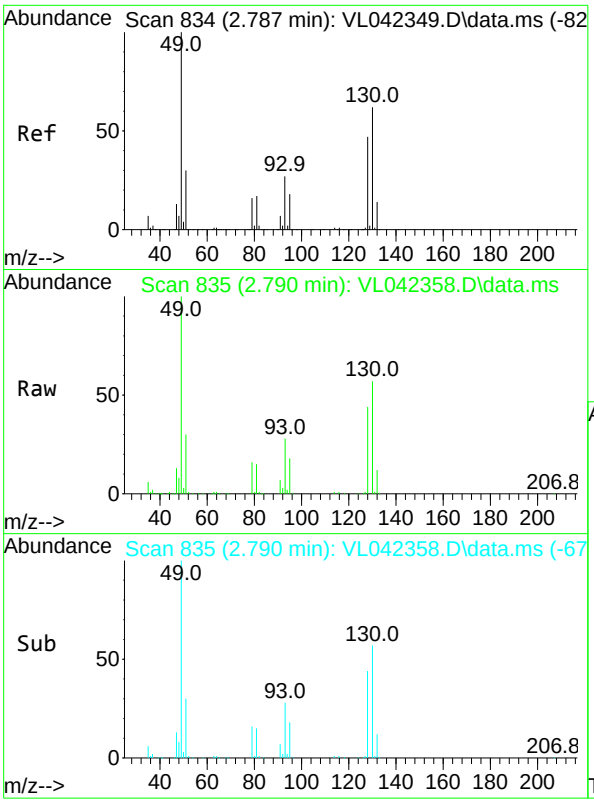
Quant Time: Apr 18 02:36:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

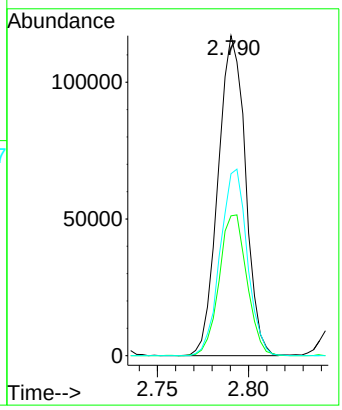





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 49 Resp: 12237

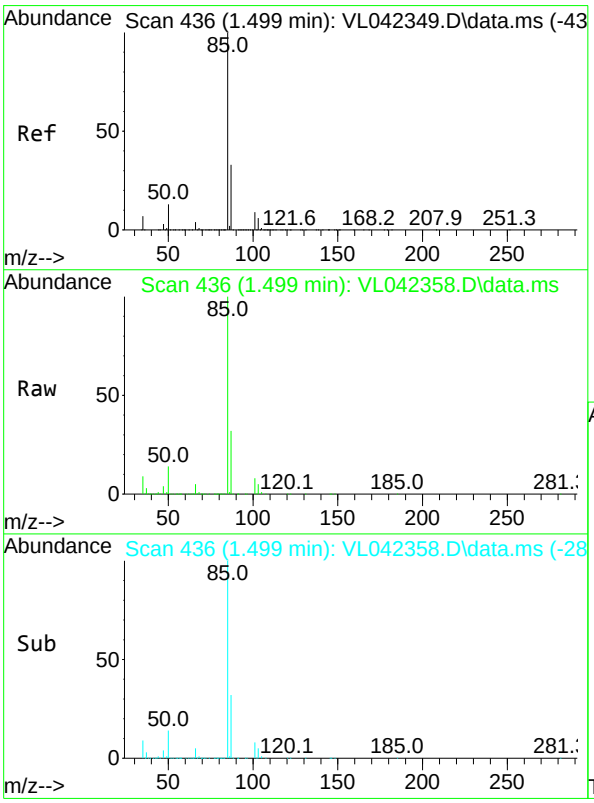
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 44.5 | 22.8 | 68.4 |
| 130 | 57.6 | 29.3 | 88.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

**Manual Integrations**
**APPROVED**

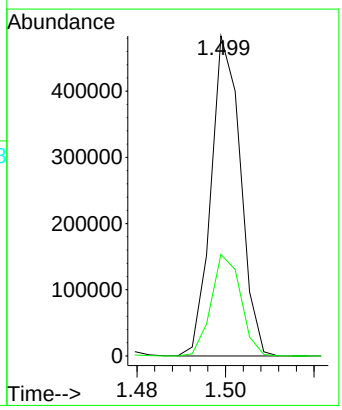
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

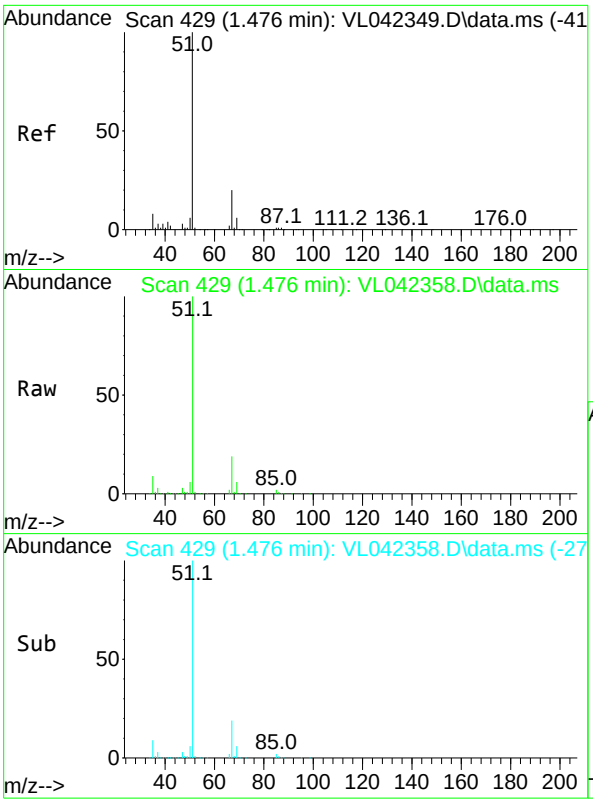



#2
Dichlorodifluoromethane
Concen: 10.337 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 85 Resp: 223505

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.7 | 26.6 | 39.8 |

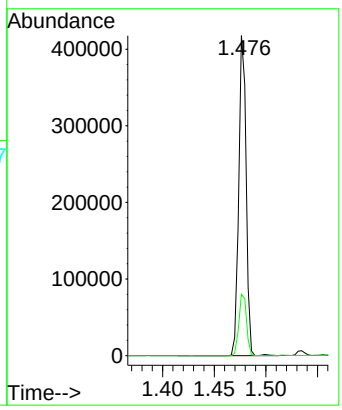





#3
Chlorodifluoromethane
Concen: 10.014 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 51 Resp: 20617

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 20.2 | 16.2 | 24.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

**Manual Integrations**
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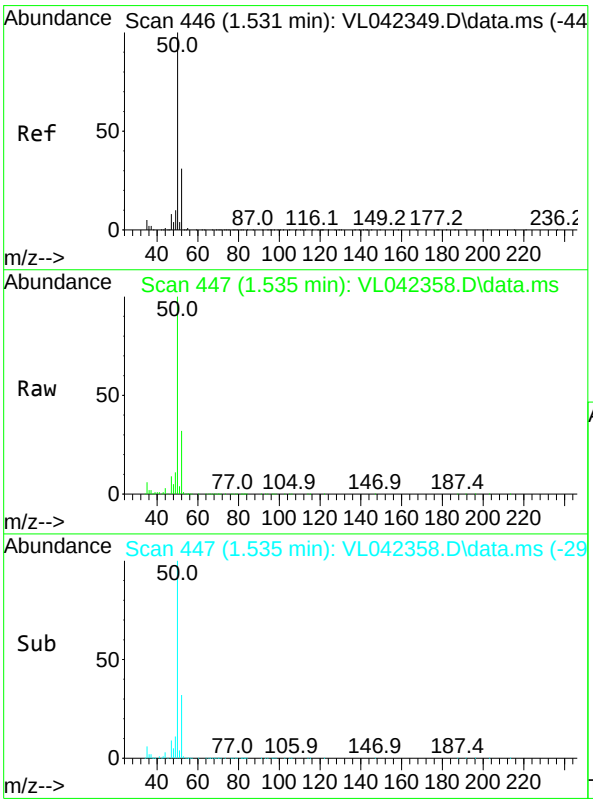
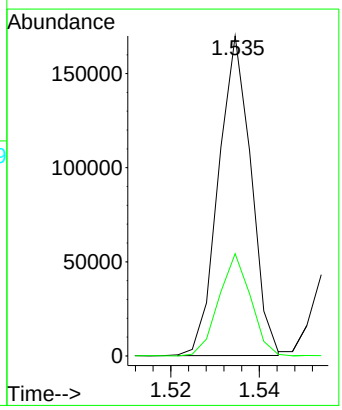
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

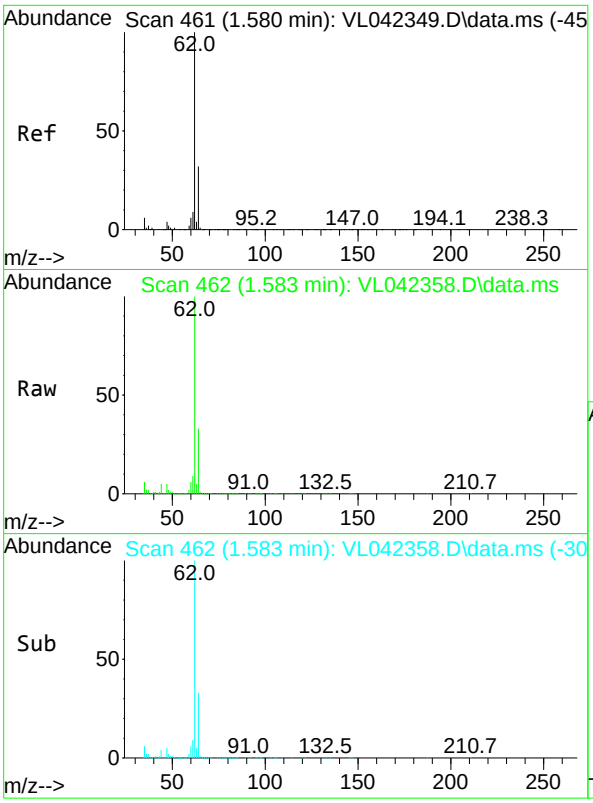



#4
Chloromethane
Concen: 10.130 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 50 Resp: 86675

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.1 | 24.7 | 37.1 |

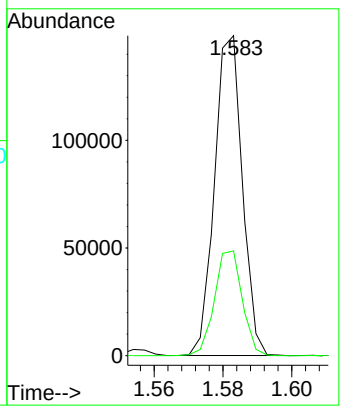





#5
Vinyl Chloride
Concen: 8.956 ppbv
RT: 1.583 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 62 Resp: 8341

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.8 | 25.4 | 38.0 |

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Reviewed By :Semsettin Yesilyurt 04/18/2025
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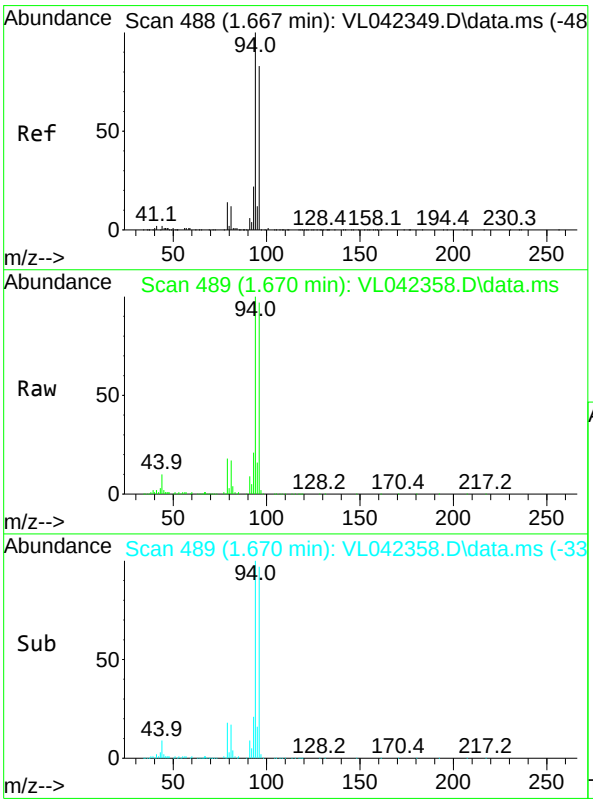
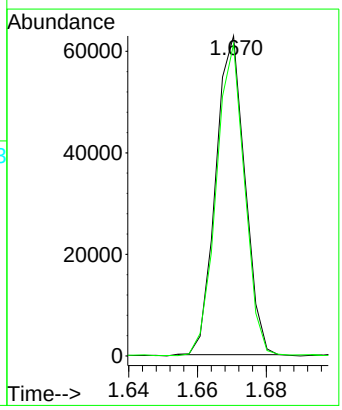
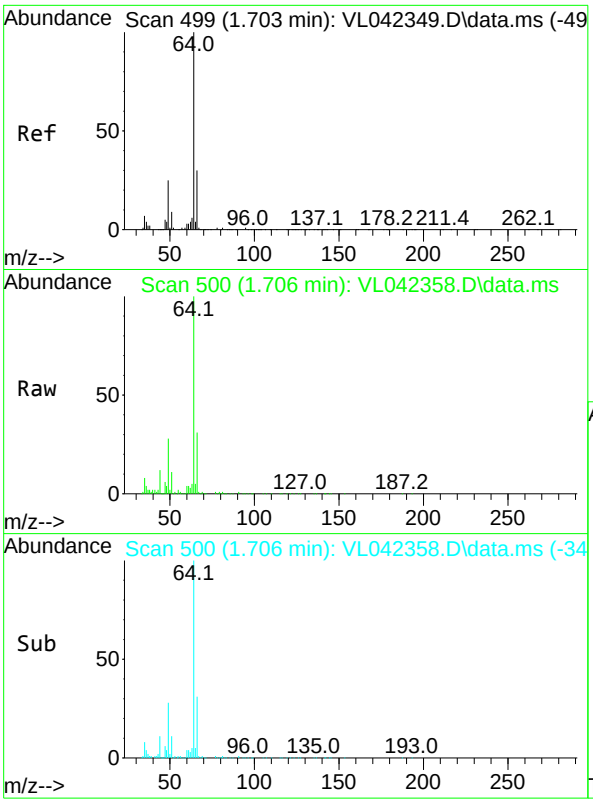



#6
Bromomethane
Concen: 9.235 ppbv
RT: 1.670 min Scan# 489
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 94 Resp: 36951

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 97.7 | 66.2 | 99.2 |

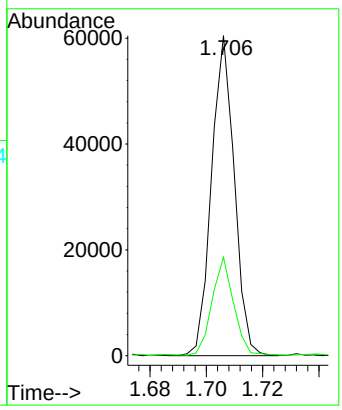





#7
Chloroethane
Concen: 10.075 ppbv
RT: 1.706 min Scan# 5(
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 64 Resp: 3393(

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 30.7 | 24.6 | 37.0 |




**Instrument :**
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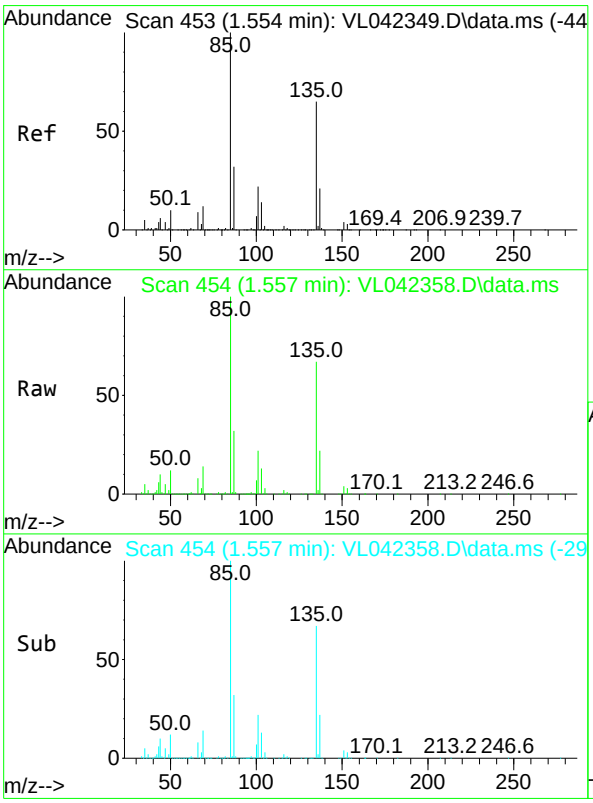
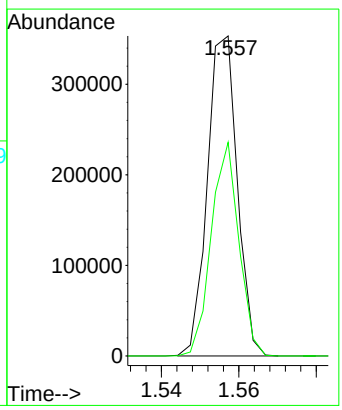
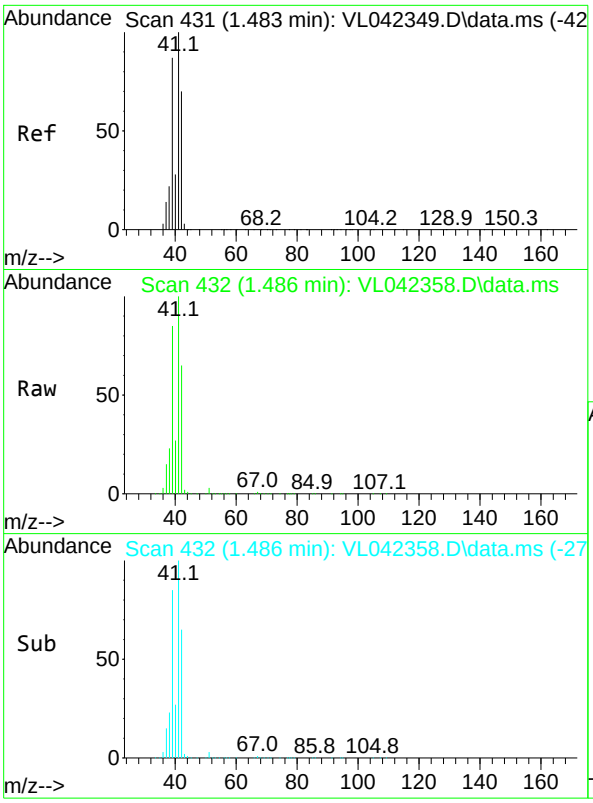



#8
Dichlorotetrafluoroethane
Concen: 10.231 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 85 Resp: 189924

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 61.4 | 52.2 | 78.2 |

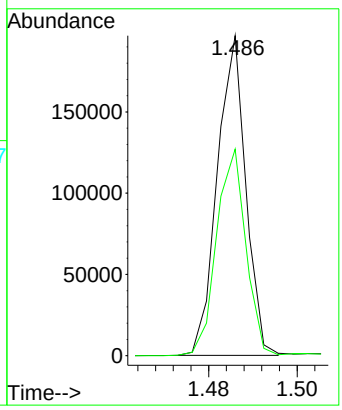





#9
Propene
Concen: 9.395 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 41 Resp: 8808

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 68.4 | 56.2 | 84.4 |




**Instrument :**
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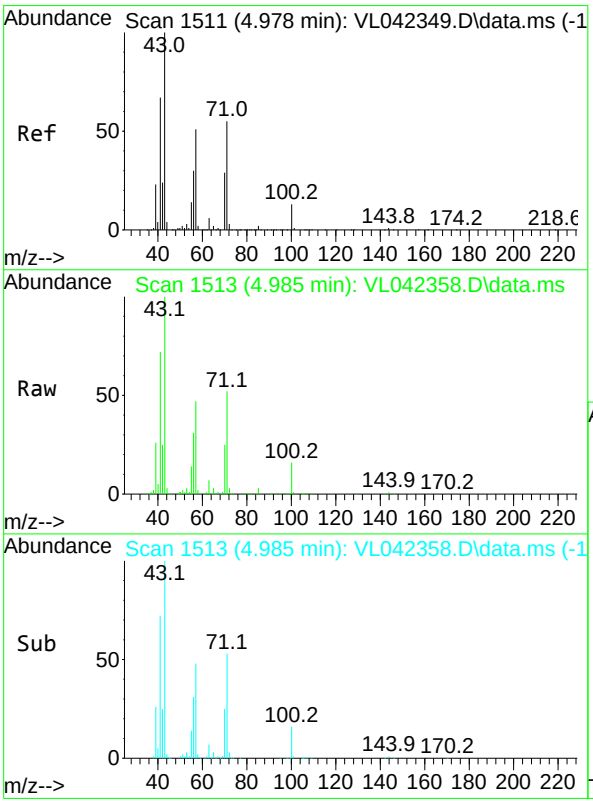
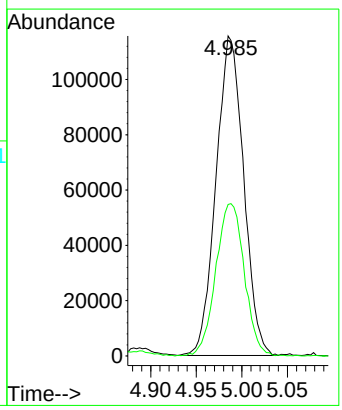
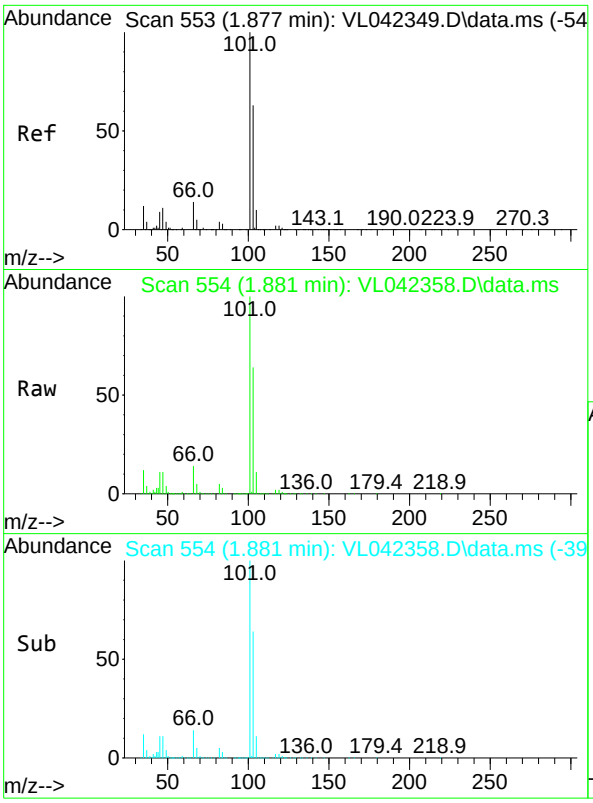



#10
Heptane
Concen: 9.244 ppbv
RT: 4.985 min Scan# 1513
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 43 Resp: 243501

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 49.4 | 39.9 | 59.9 |

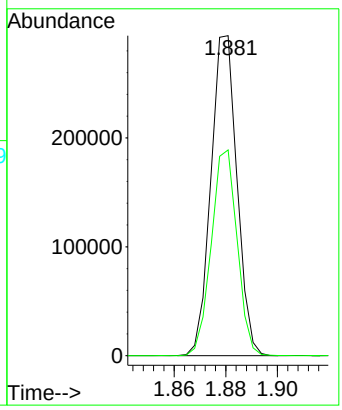





#11
Trichlorofluoromethane
Concen: 10.050 ppbv
RT: 1.881 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:101 Resp: 20664

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.3 | 50.1 | 75.1 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

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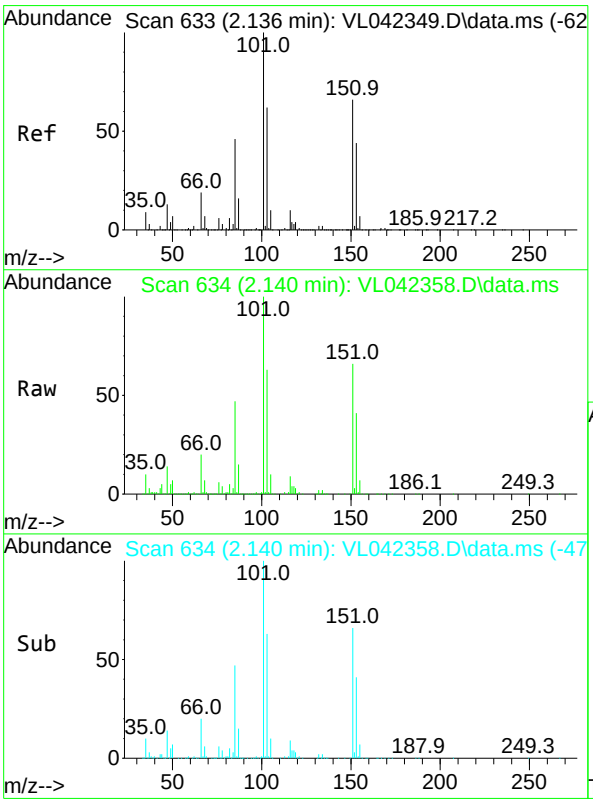
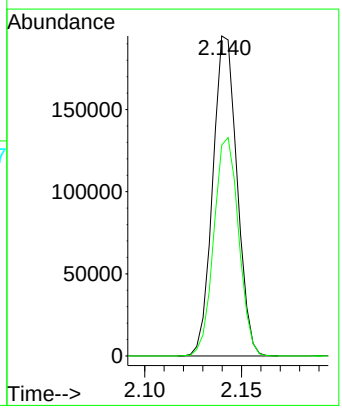
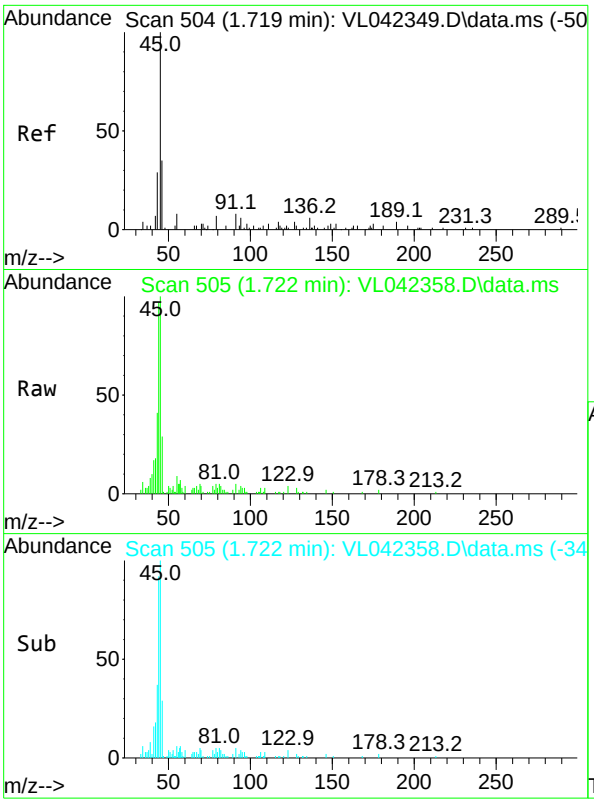



#12
1,1,2-Trichlorotrifluoroethane
Concen: 10.083 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:101 Resp: 169501

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 69.6 | 57.0 | 85.6 |






#13
Ethanol
Concen: 3.246 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 45 Resp: 483

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 45.8 | 21.9 | 87.7 |

**Instrument :**
MSVOA_L
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VL0417ABS01

**Manual Integrations**
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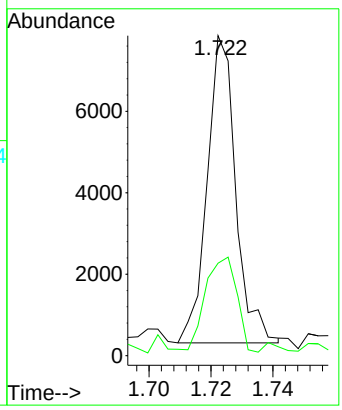
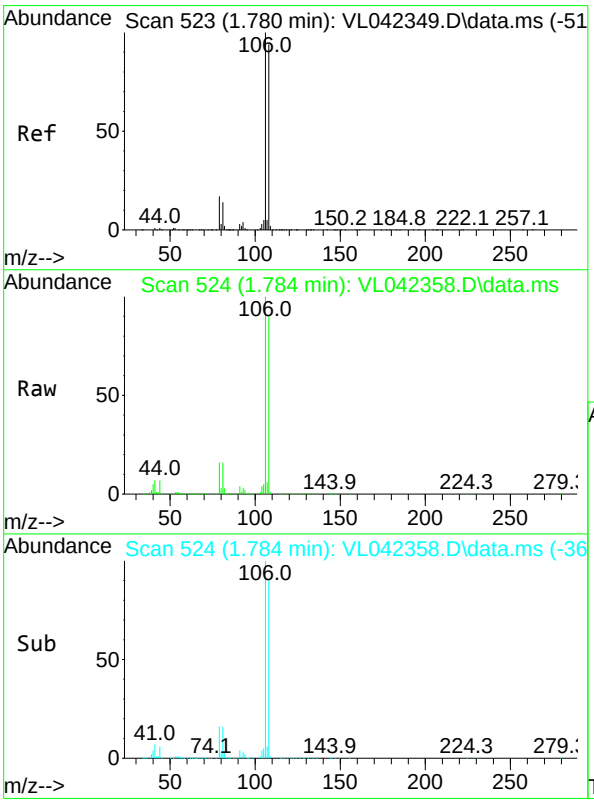
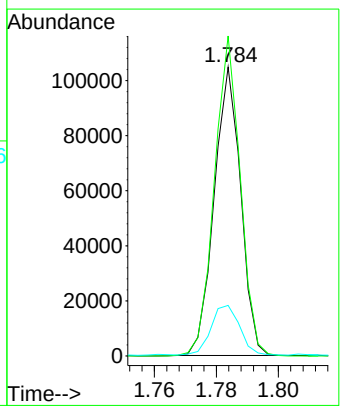


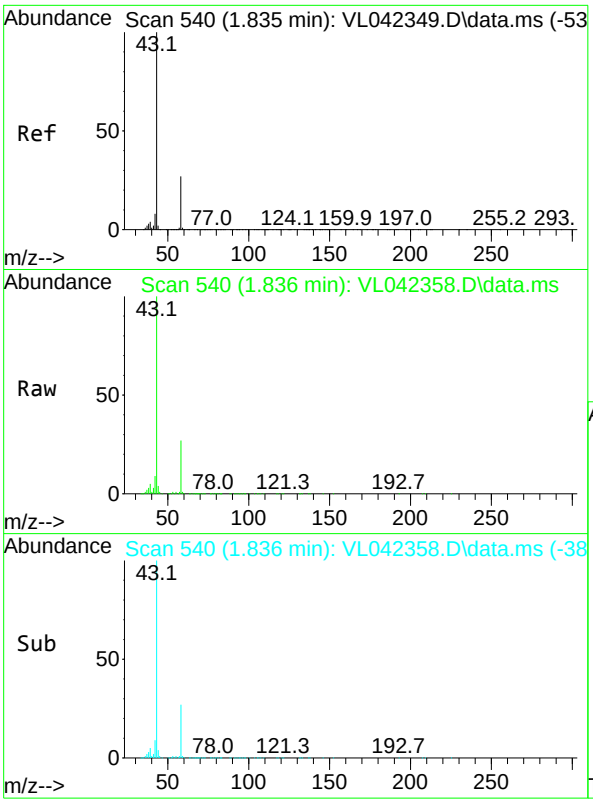




#14
Bromoethene
Concen: 9.818 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:108 Resp: 62214

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 106 | 108.2 | 85.9 | 128.9 |
| 79 | 20.6 | 13.9 | 20.9 |

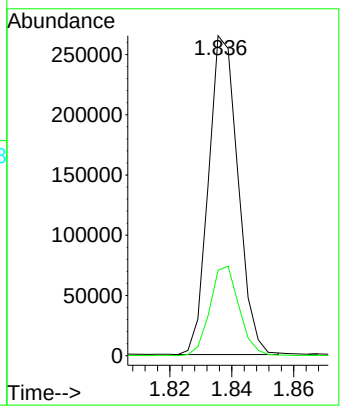





#15
Acetone
Concen: 8.743 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 43 Resp: 17515

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 27.9 | 22.4 | 33.6 |




**Instrument :**
MSVOA_L
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**Manual Integrations**
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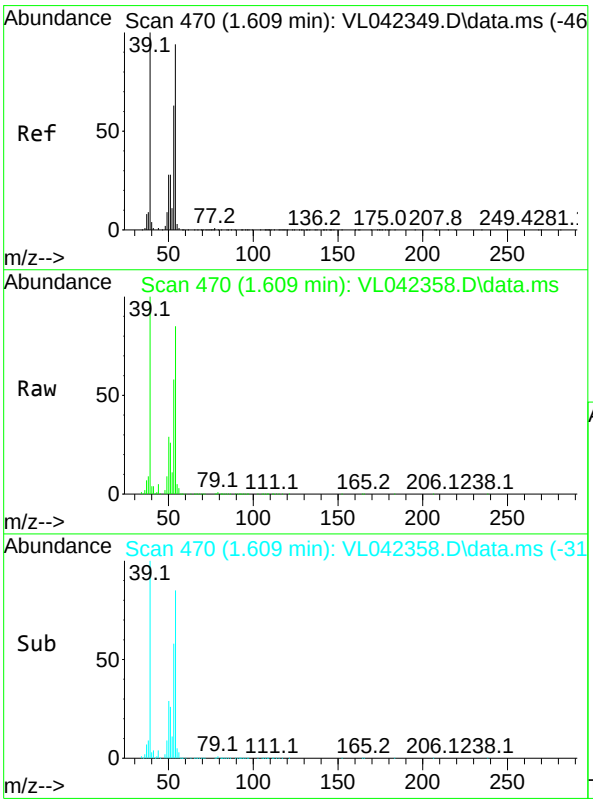
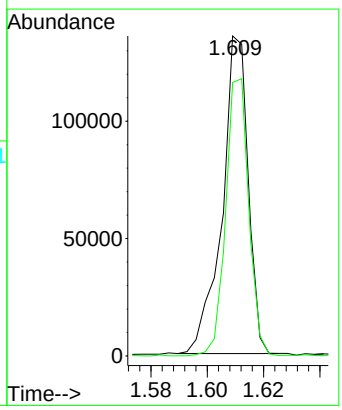
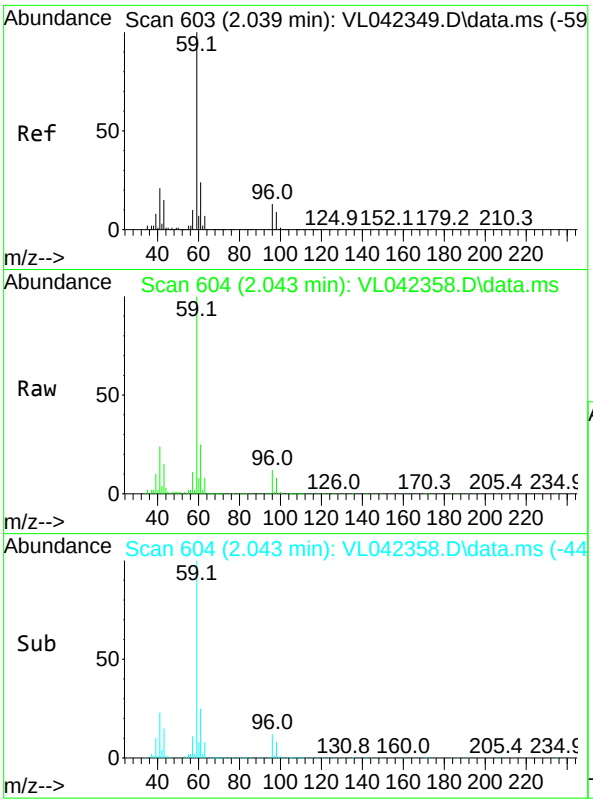



#16
1,3-Butadiene
Concen: 9.076 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 39 Resp: 86965

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 77.9 | 64.9 | 97.3 |

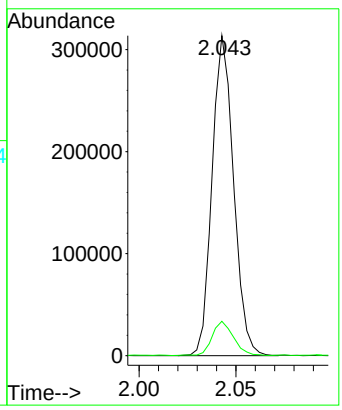





#17
tert-Butyl alcohol
Concen: 9.754 ppbv
RT: 2.043 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 59 Resp: 24215

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.9 | 8.7 | 13.1 |

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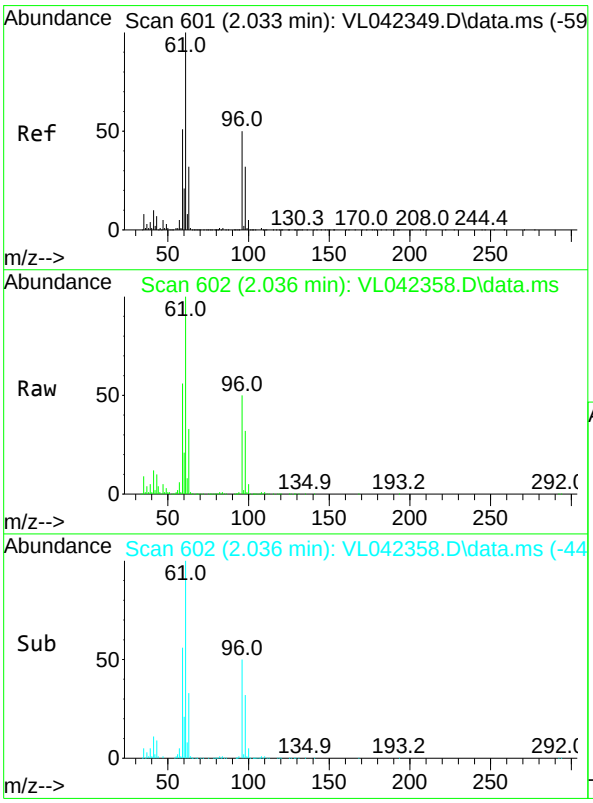
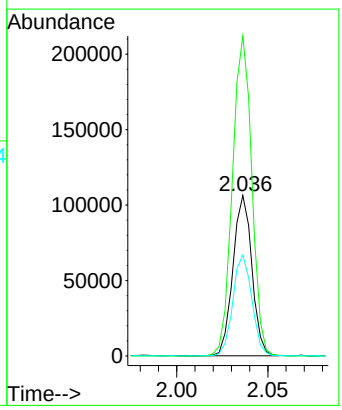
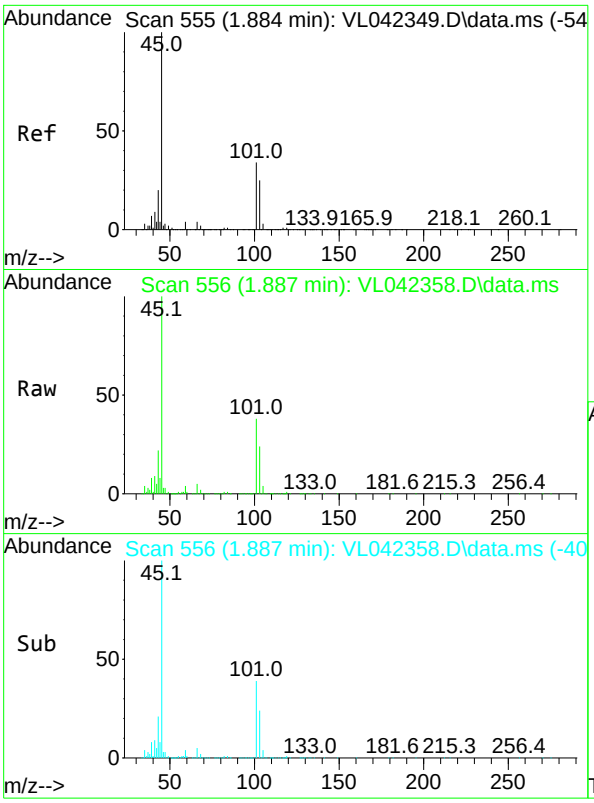



#18
1,1-Dichloroethene
Concen: 9.836 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 96 Resp: 77247

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 199.6 | 160.2 | 240.2 |
| 98 | 63.0 | 51.0 | 76.4 |

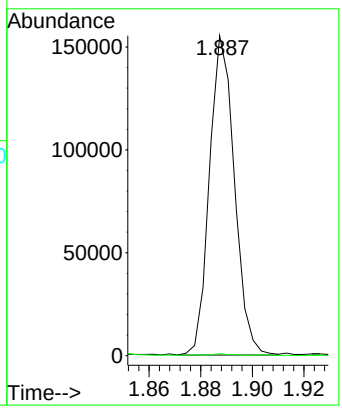





#19
Isopropyl Alcohol
Concen: 9.356 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 45 Resp: 10412

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 46.9 | 34.5 | 51.7 |

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MSVOA_L
**ClientSampleId :**
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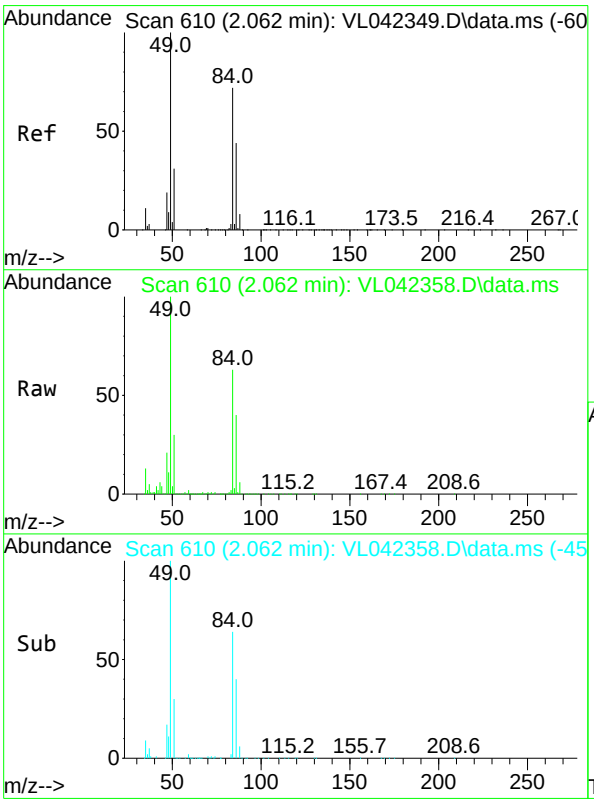
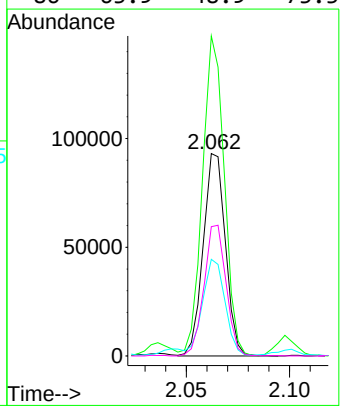
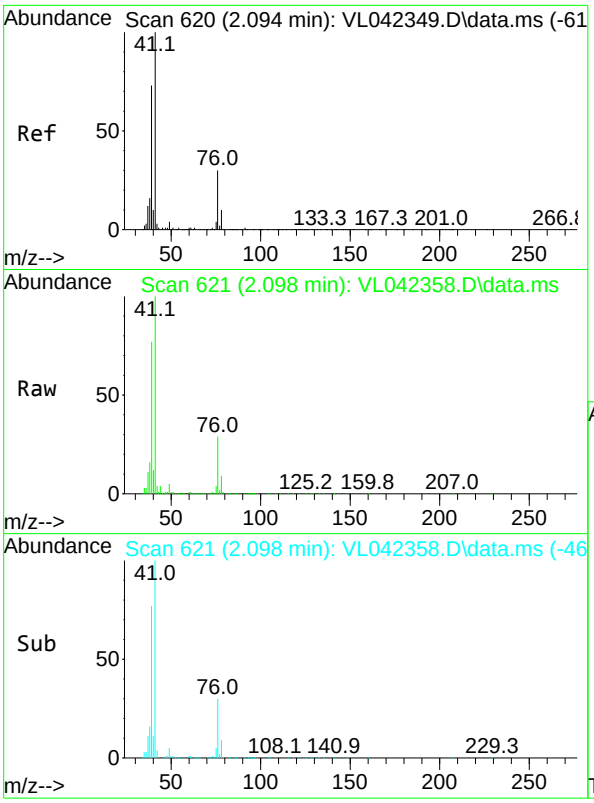



#20
Methylene Chloride
Concen: 8.865 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 84 Resp: 69548

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 156.3 | 111.6 | 167.4 |
| 51 | 45.9 | 35.1 | 52.7 |
| 86 | 63.9 | 48.9 | 73.3 |

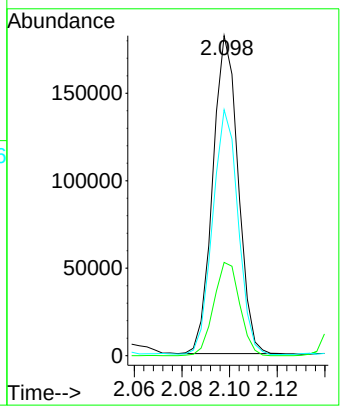





#21
Allyl Chloride
Concen: 9.704 ppbv
RT: 2.098 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 41 Resp: 13422

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 30.1 | 24.8 | 37.2 |
| 39 | 76.8 | 60.6 | 90.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

**Manual Integrations**
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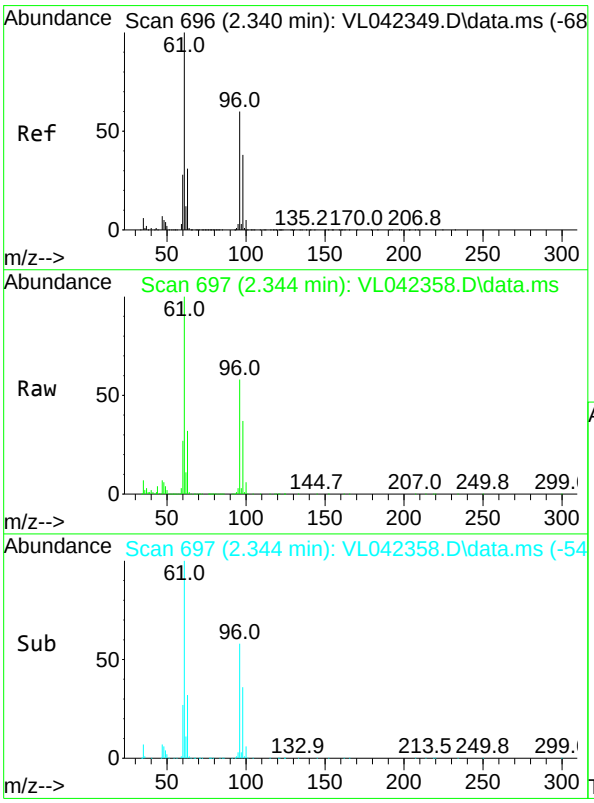
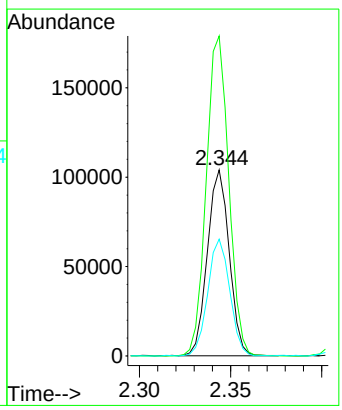
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

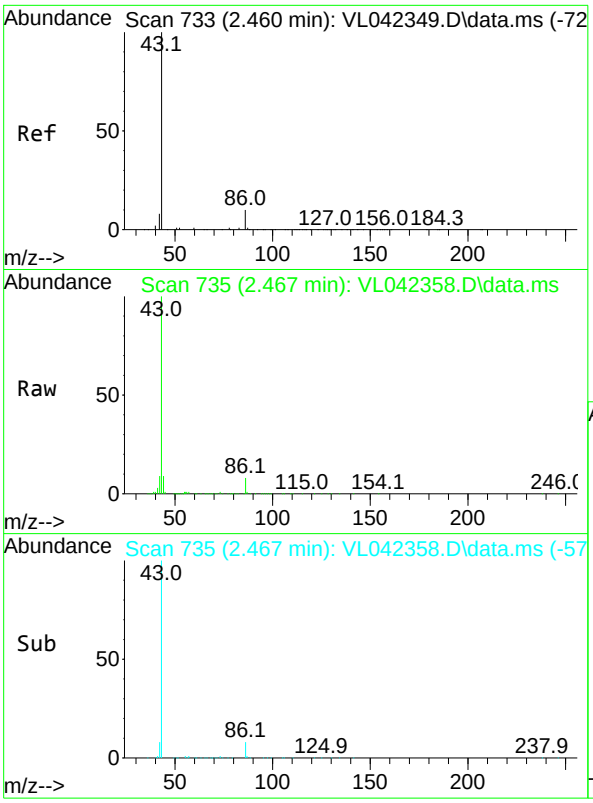



#22
trans-1,2-Dichloroethene
Concen: 9.653 ppbv
RT: 2.344 min Scan# 697
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 96 Resp: 86323

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 172.1 | 133.7 | 200.5 |
| 98 | 62.9 | 50.3 | 75.5 |

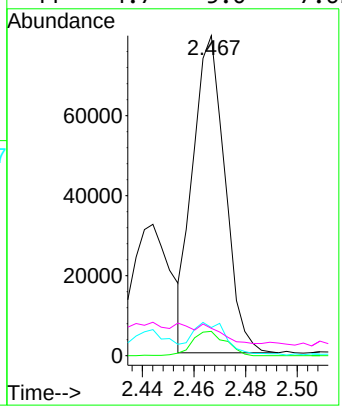





#23
Vinyl Acetate
Concen: 8.427 ppbv
RT: 2.467 min Scan# 7
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 43 Resp: 6833

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 7.7 | 6.5 | 9.7 |
| 42 | 8.3 | 7.8 | 11.8 |
| 44 | 4.7 | 5.0 | 7.6# |

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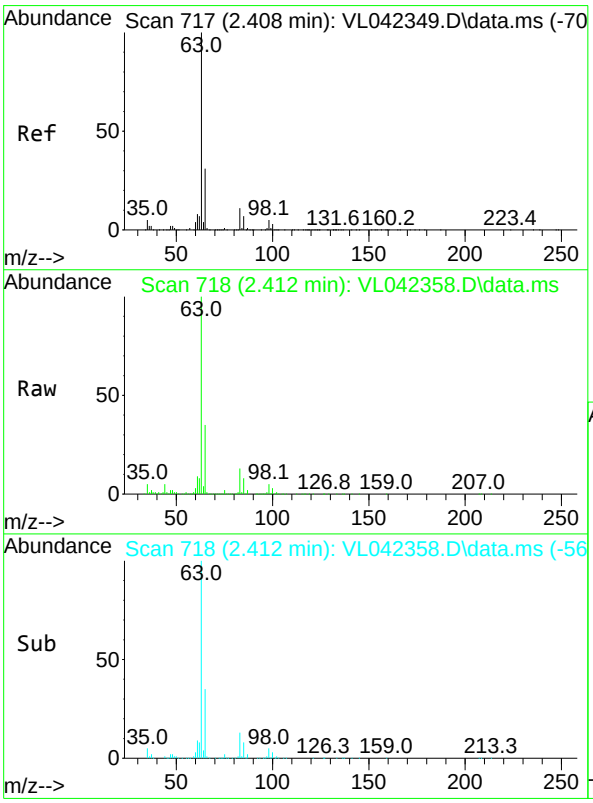
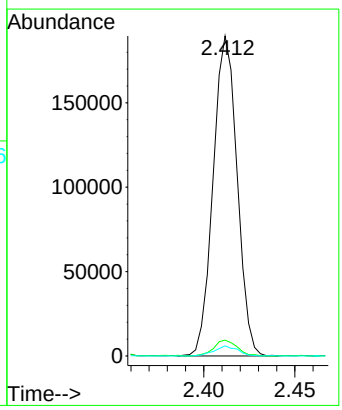
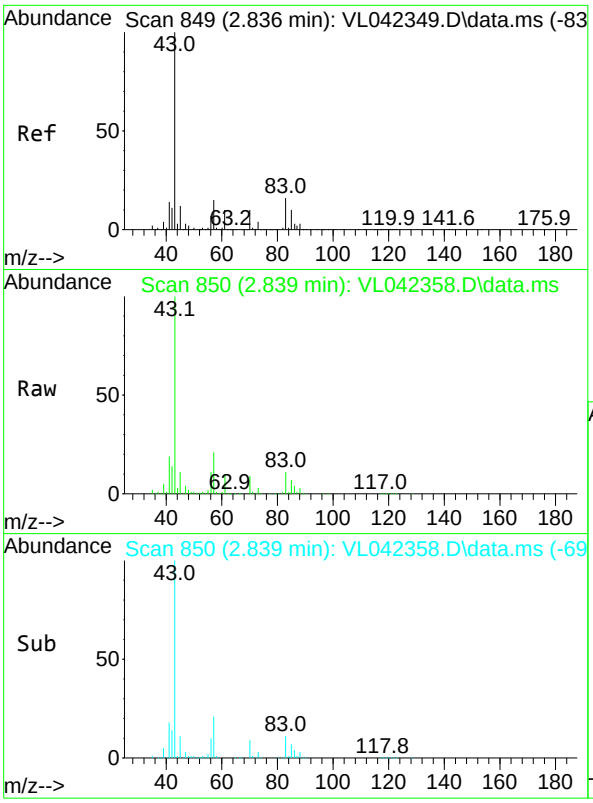



#24
1,1-Dichloroethane
Concen: 10.199 ppbv
RT: 2.412 min Scan# 718
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 63 Resp: 173238

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 4.9 | 2.3 | 6.8 |
| 100 | 3.1 | 1.6 | 4.8 |

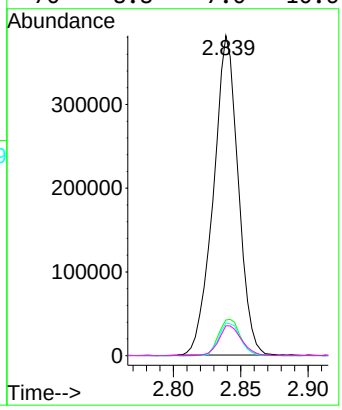





#25
Ethyl Acetate
Concen: 9.894 ppbv
RT: 2.839 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 43 Resp: 48868

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 10.1 | 8.3 | 12.5 |
| 61 | 9.0 | 7.3 | 10.9 |
| 70 | 8.8 | 7.0 | 10.6 |




**Instrument :**
MSVOA_L
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**Manual Integrations**
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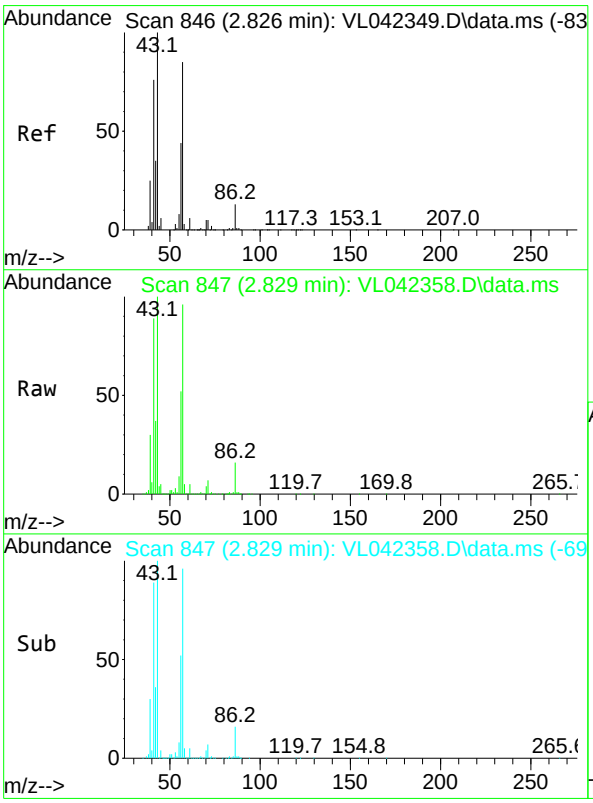
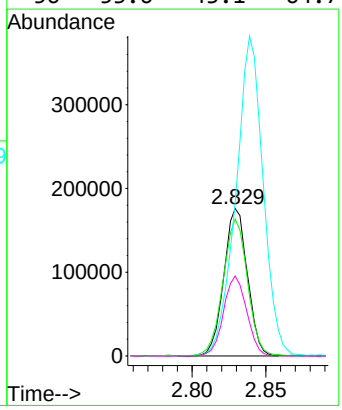
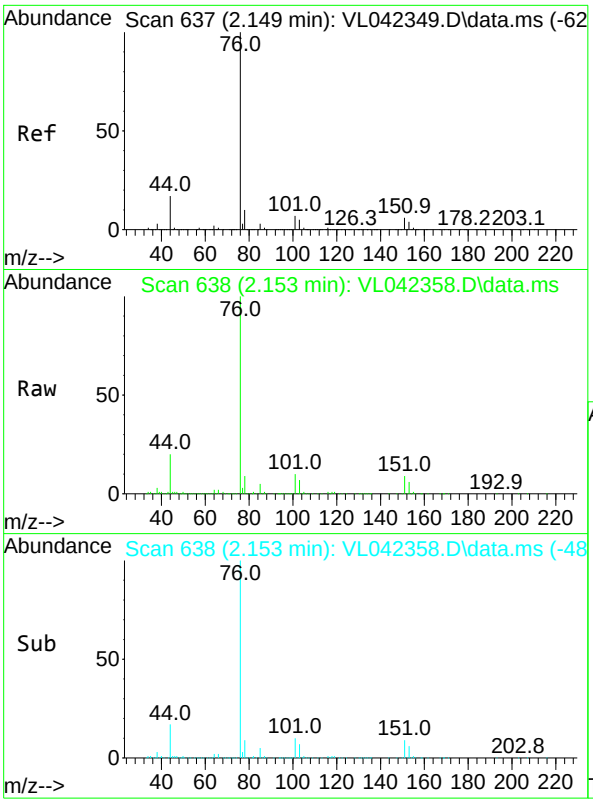



#26
Hexane
Concen: 9.761 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 57 Resp: 195124

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 96.9 | 77.9 | 116.9 |
| 43 | 251.9 | 208.4 | 312.6 |
| 56 | 53.6 | 43.1 | 64.7 |

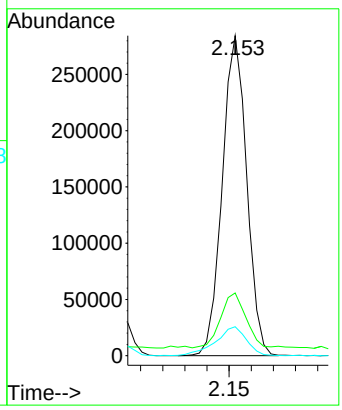





#27
Carbon Disulfide
Concen: 10.202 ppbv
RT: 2.153 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 76 Resp: 21834

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 21.6 | 15.5 | 23.3 |
| 78 | 11.4 | 9.3 | 13.9 |




**Instrument :**
MSVOA_L
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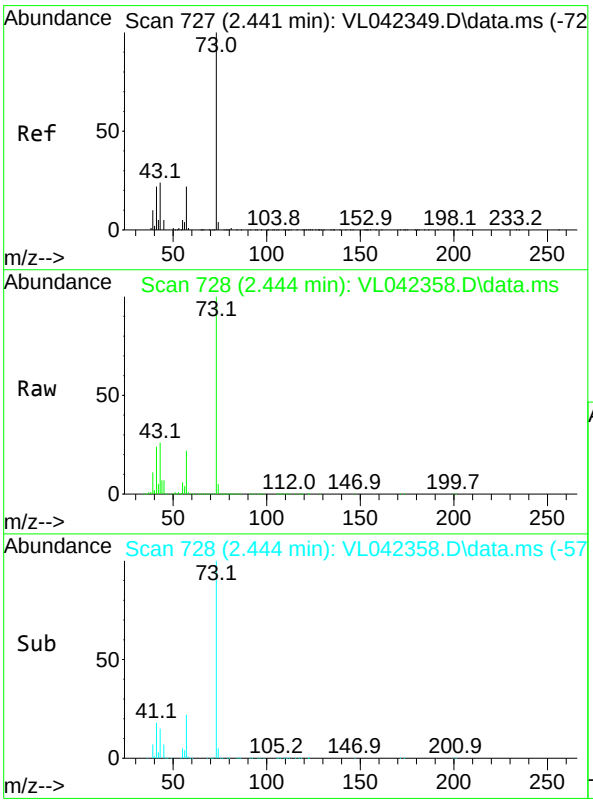
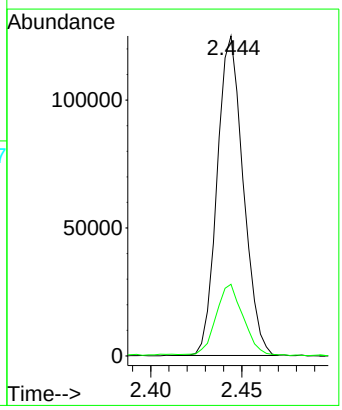
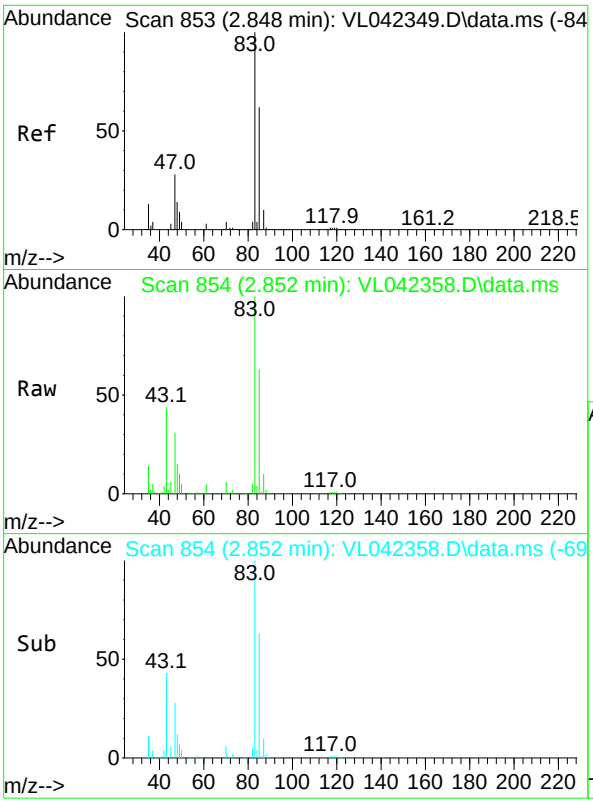



#28
Methyl tert-Butyl Ether
Concen: 9.510 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 73 Resp: 124554

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 24.5 | 21.3 | 31.9 |

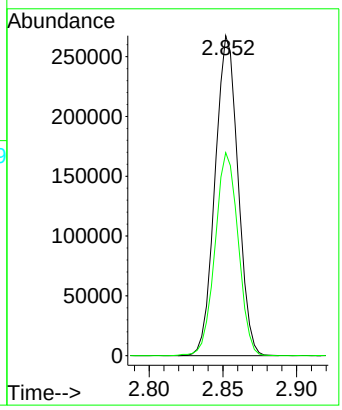





#29
Chloroform
Concen: 10.239 ppbv
RT: 2.852 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 83 Resp: 28929

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.4 | 50.0 | 75.0 |




**Instrument :**
MSVOA_L
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VL0417ABS01

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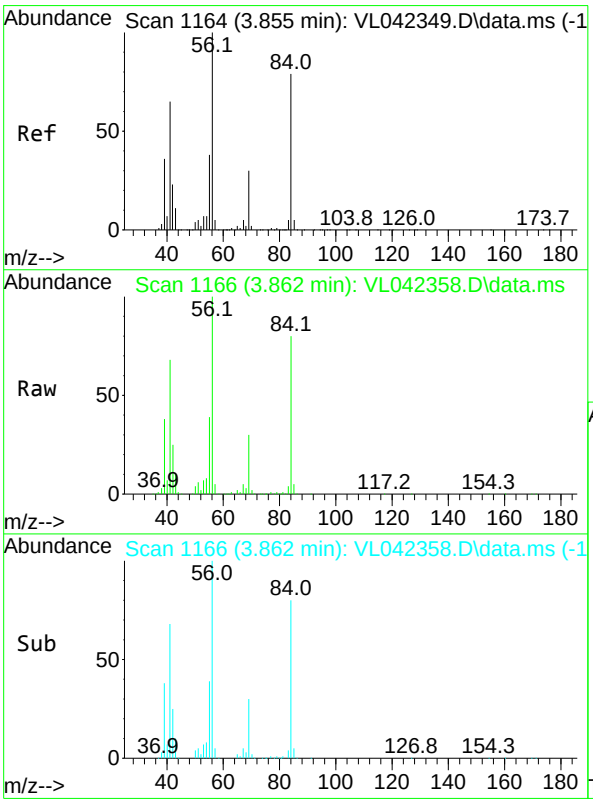
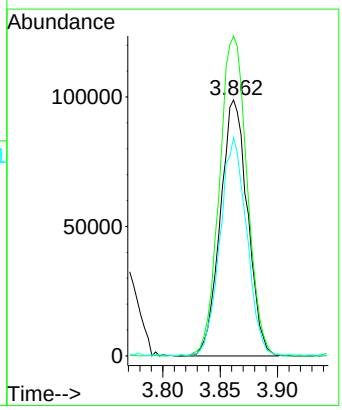
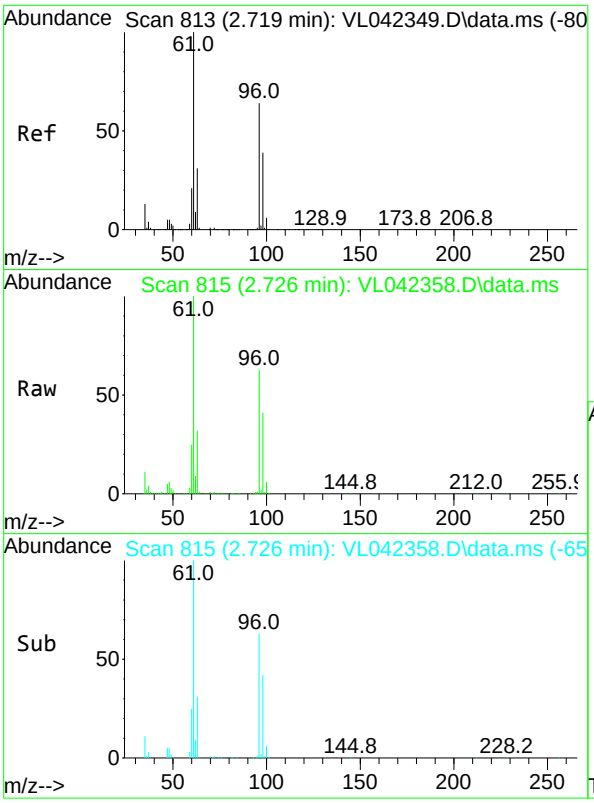



#30
Cyclohexane
Concen: 10.088 ppbv
RT: 3.862 min Scan# 1166
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 84 Resp: 163017

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 126.7 | 101.0 | 151.4 |
| 41 | 83.8 | 67.4 | 101.0 |

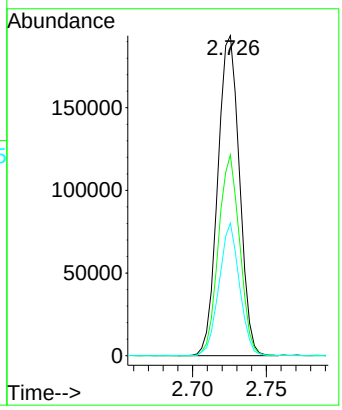





#31
cis-1,2-Dichloroethene
Concen: 10.424 ppbv
RT: 2.726 min Scan# 8
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 61 Resp: 19810

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 62.8 | 50.8 | 76.2 |
| 98 | 41.4 | 30.9 | 46.3 |




**Instrument :**
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VL0417ABS01

**Manual Integrations**
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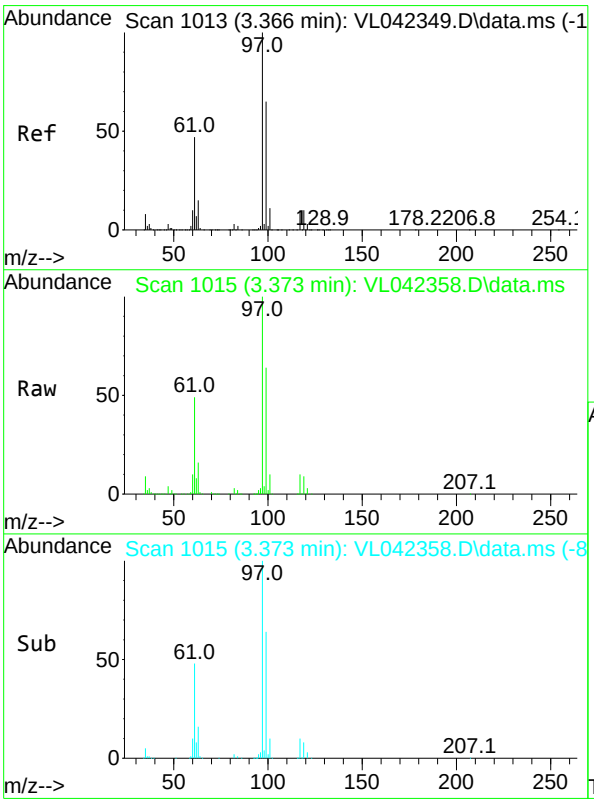
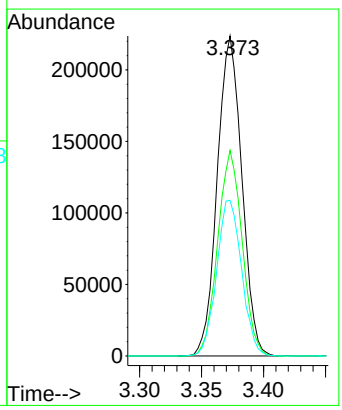
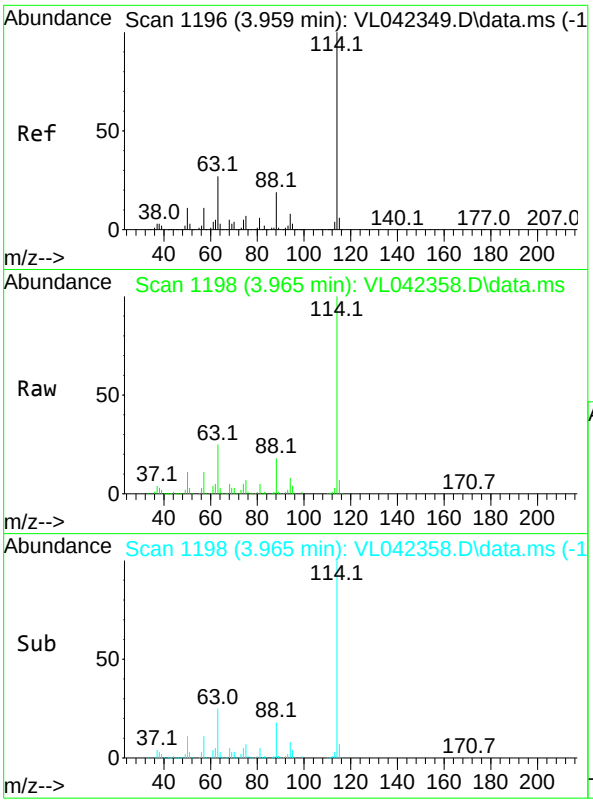



#32
1,1,1-Trichloroethane
Concen: 9.729 ppbv
RT: 3.373 min Scan# 1015
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 97 Resp: 309460

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.7 | 51.0 | 76.4 |
| 61 | 49.5 | 38.8 | 58.2 |

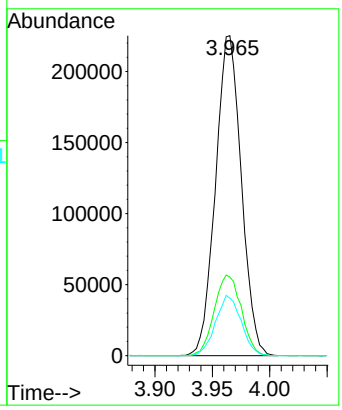





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:114 Resp: 35220

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 26.4 | 21.8 | 32.6 |
| 88 | 18.6 | 15.5 | 23.3 |




**Instrument :**
MSVOA_L
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VL0417ABS01

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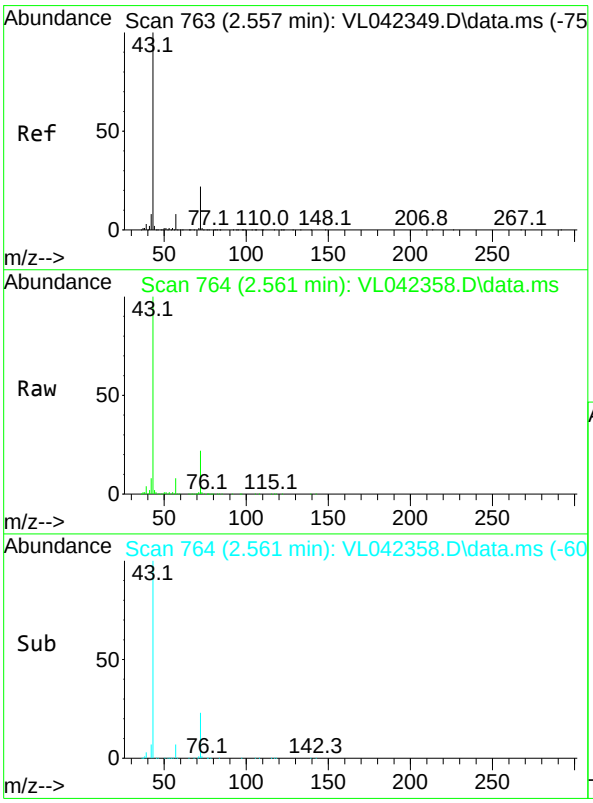
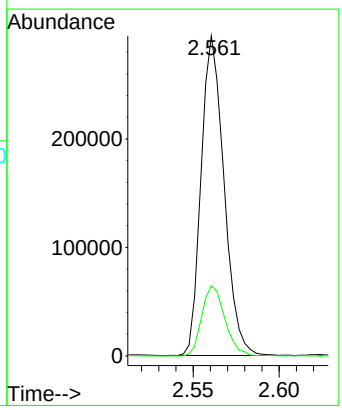
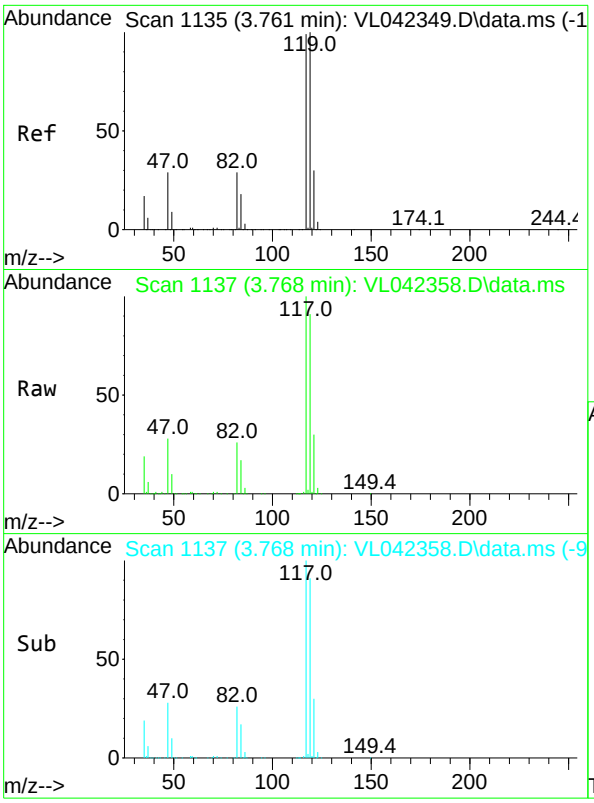



#34
2-Butanone
Concen: 9.787 ppbv
RT: 2.561 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 43 Resp: 272600

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 22.2 | 18.2 | 27.2 |

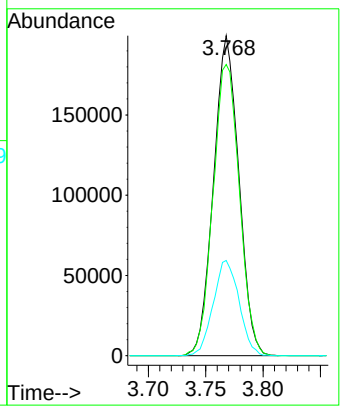





#35
Carbon Tetrachloride
Concen: 9.576 ppbv
RT: 3.768 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:117 Resp: 30524

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 91.0 | 80.5 | 120.7 |
| 121 | 29.8 | 24.2 | 36.2 |

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MSVOA_L
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VL0417ABS01

**Manual Integrations**
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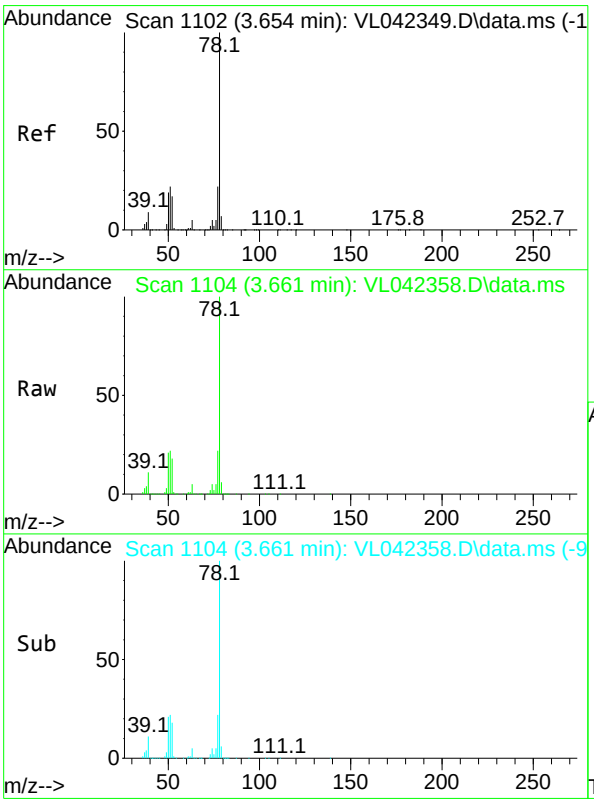
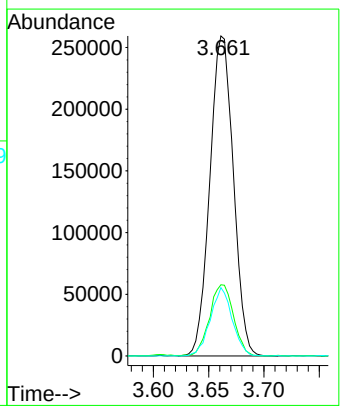
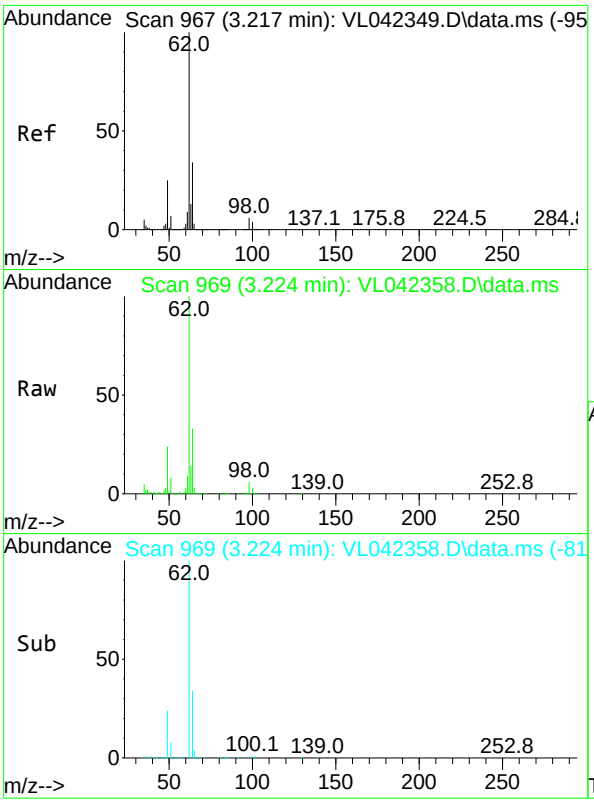



#36
Benzene
Concen: 10.088 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 78 Resp: 383239

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 22.1 | 17.4 | 26.0 |
| 50 | 21.3 | 15.5 | 23.3 |

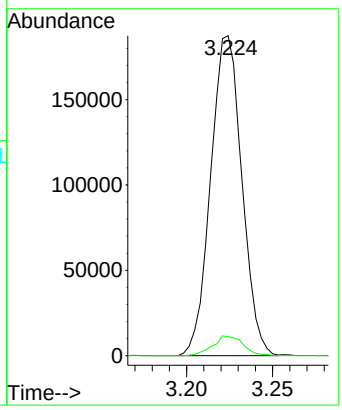





#37
1,2-Dichloroethane
Concen: 10.377 ppbv
RT: 3.224 min Scan# 9
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 62 Resp: 23661

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 6.0 | 5.1 | 7.7 |

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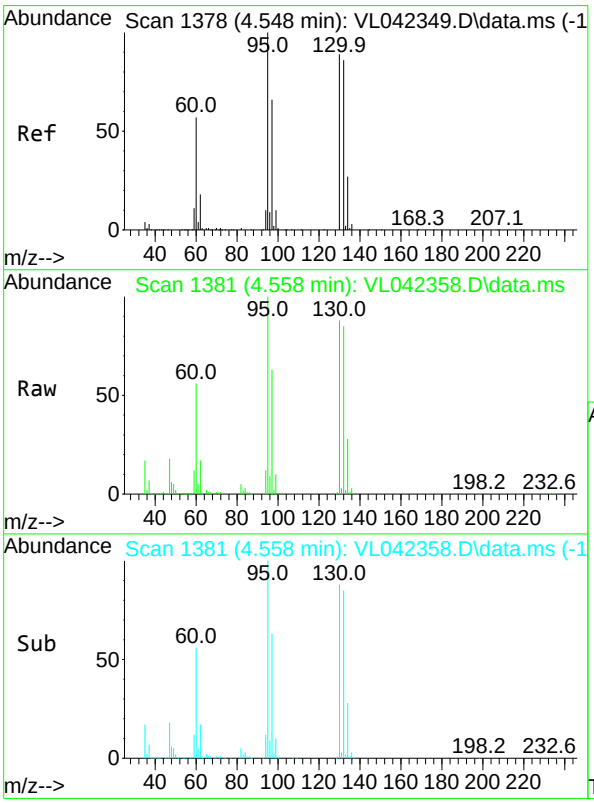
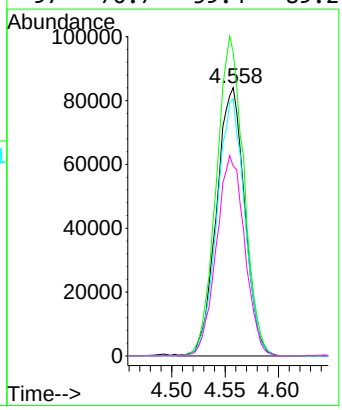
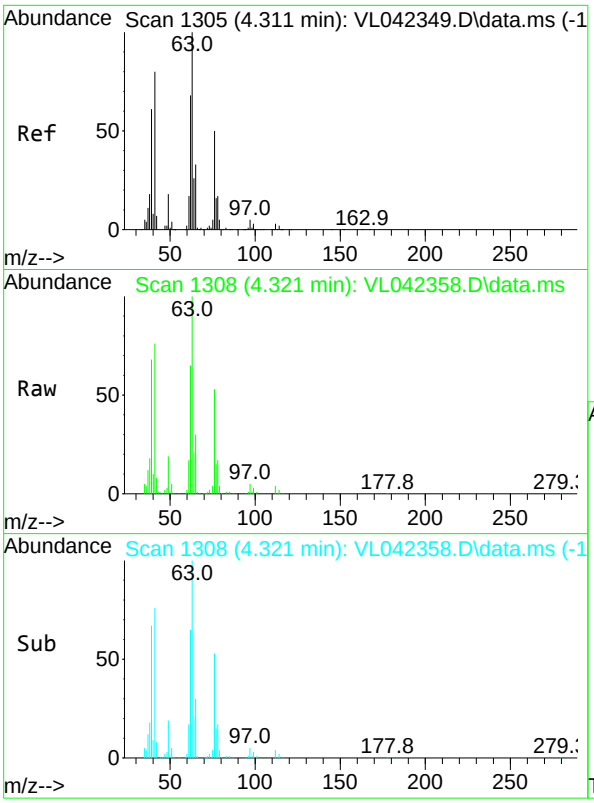



#38
Trichloroethene
Concen: 9.251 ppbv
RT: 4.558 min Scan# 1381
Delta R.T. 0.010 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:130 Resp: 153596

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 113.0 | 89.8 | 134.6 |
| 132 | 95.8 | 77.7 | 116.5 |
| 97 | 70.7 | 59.4 | 89.2 |

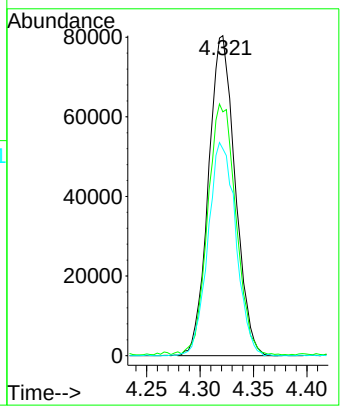





#39
1,2-Dichloropropane
Concen: 9.866 ppbv
RT: 4.321 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 63 Resp: 13966

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 75.7 | 64.2 | 96.2 |
| 62 | 64.6 | 54.3 | 81.5 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

**Manual Integrations**
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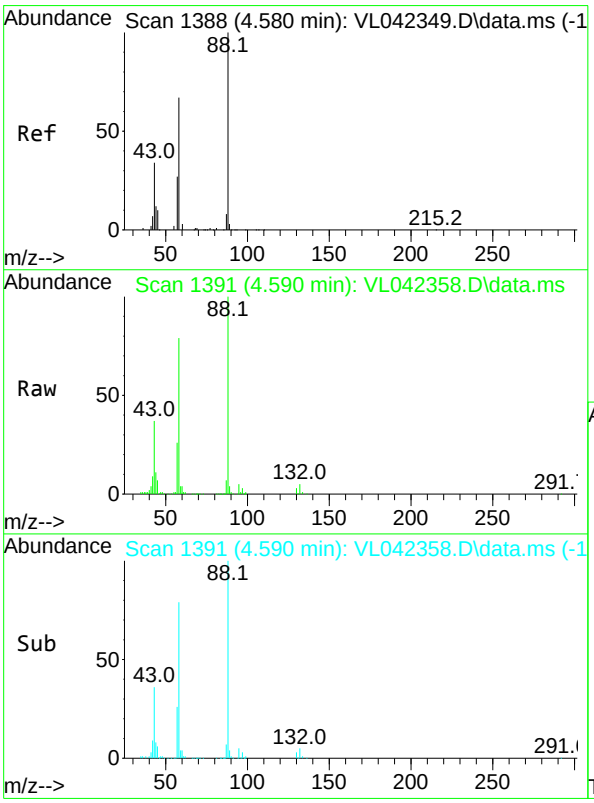
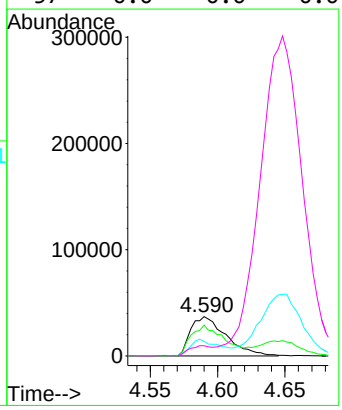
Supervised By :Mahesh Dadoda 04/18/2025

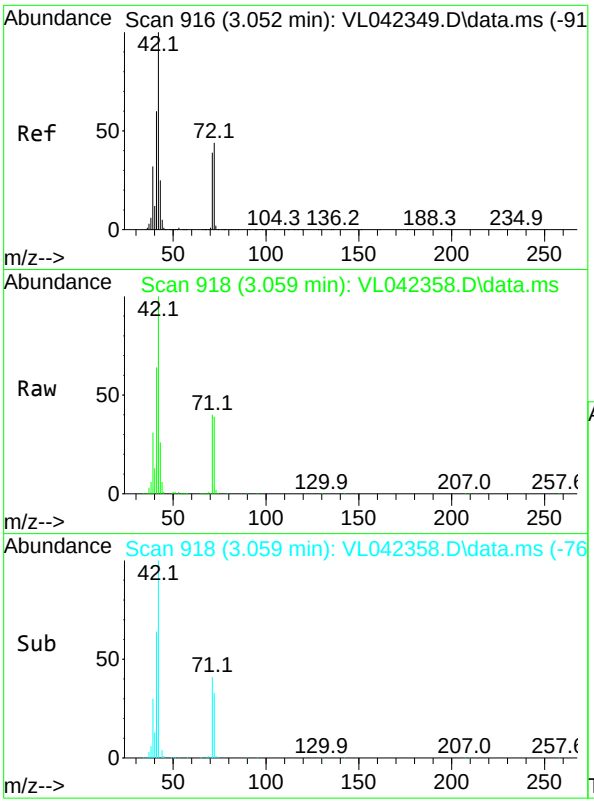



#40
1,4-Dioxane
Concen: 8.716 ppbv
RT: 4.590 min Scan# 1391
Delta R.T. 0.010 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 88 Resp: 67808

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 75.4 | 61.4 | 92.0 |
| 43 | 37.1 | 23.2 | 34.8# |
| 57 | 0.0 | 0.0 | 0.0 |

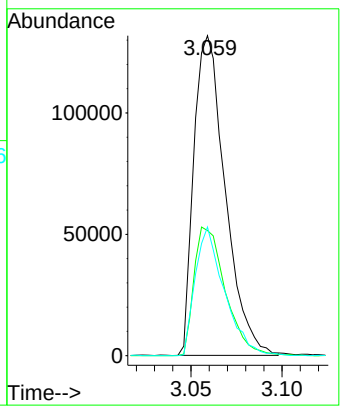





#41
Tetrahydrofuran
Concen: 9.715 ppbv
RT: 3.059 min Scan# 9
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 42 Resp: 15777

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 40.3 | 32.3 | 48.5 |
| 71 | 37.7 | 31.4 | 47.2 |

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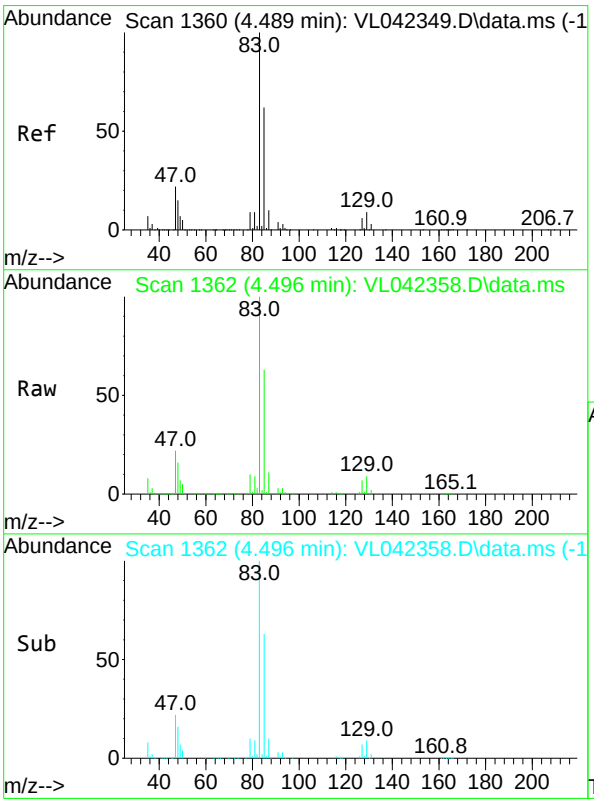
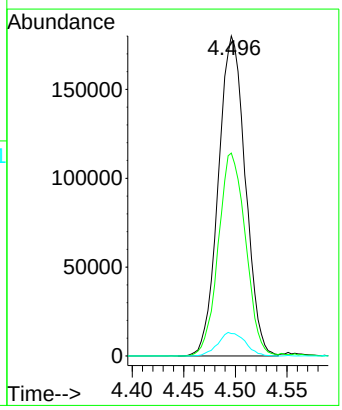
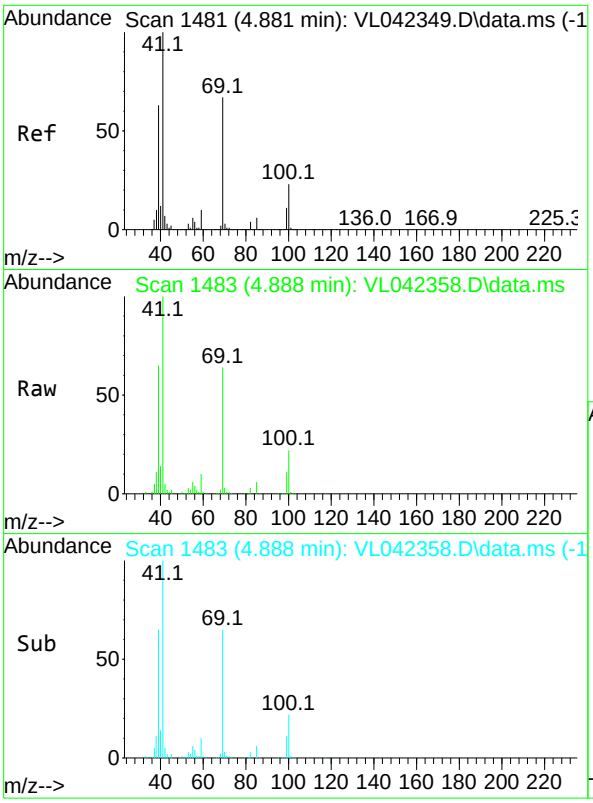



#42
Bromodichloromethane
Concen: 10.326 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 83 Resp: 327652

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.3 | 49.7 | 74.5 |
| 127 | 7.0 | 5.1 | 7.7 |






#43
Methyl Methacrylate
Concen: 9.304 ppbv
RT: 4.888 min Scan# 14
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 69 Resp: 15929

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 155.9 | 118.6 | 177.8 |
| 100 | 35.1 | 28.2 | 42.2 |

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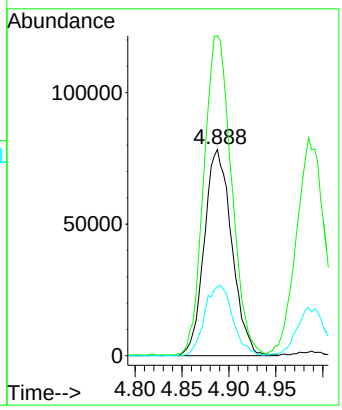
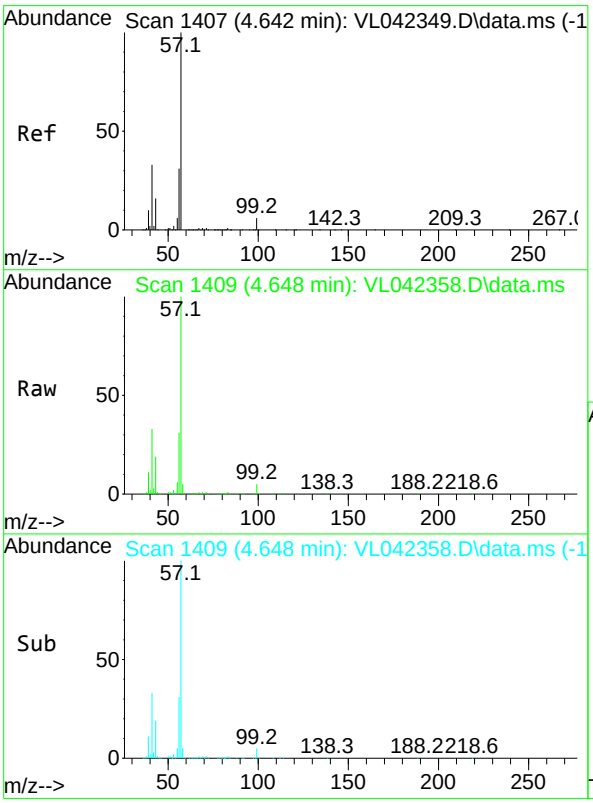
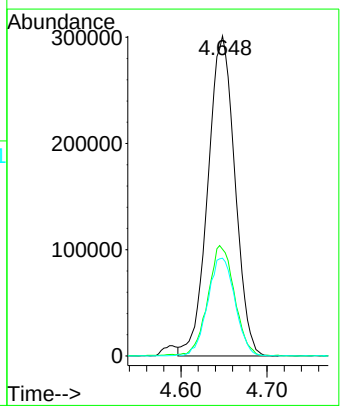


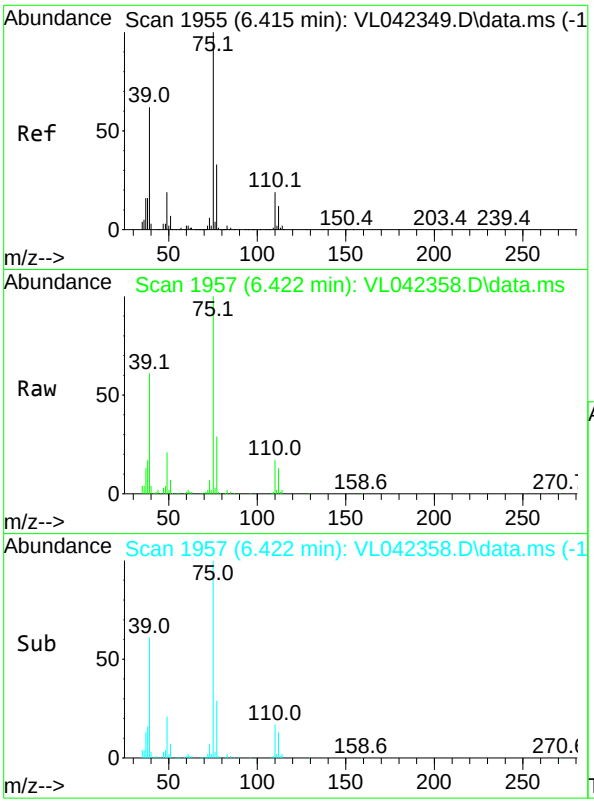




#44
2,2,4-Trimethylpentane
Concen: 10.019 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 57 Resp: 657377

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 34.2 | 27.2 | 40.8 |
| 56 | 31.1 | 25.7 | 38.5 |

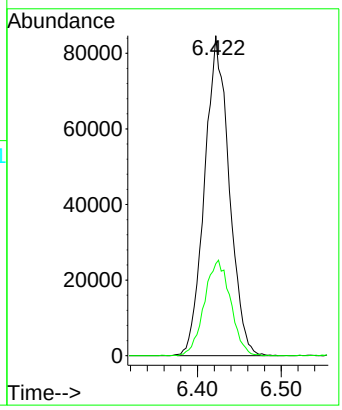





#45
t-1,3-Dichloropropene
Concen: 9.864 ppbv
RT: 6.422 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 75 Resp: 17251

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 28.7 | 27.0 | 40.6 |

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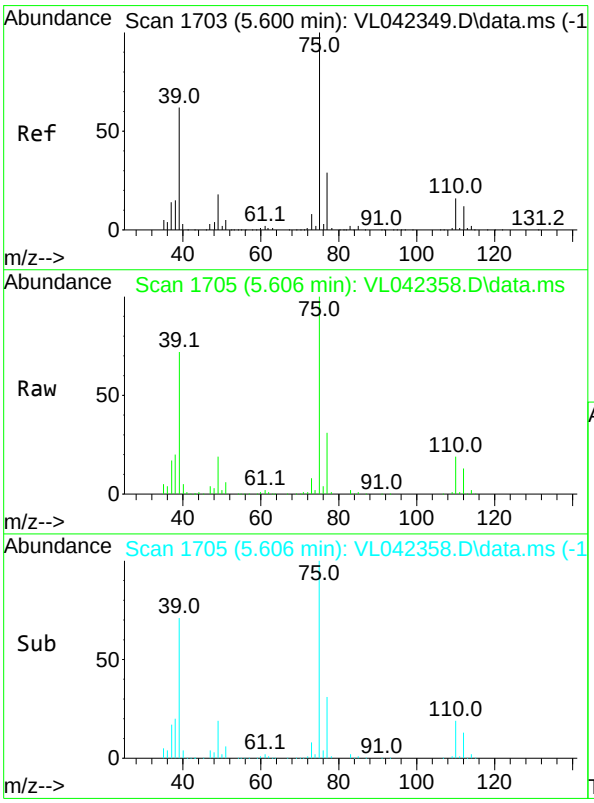
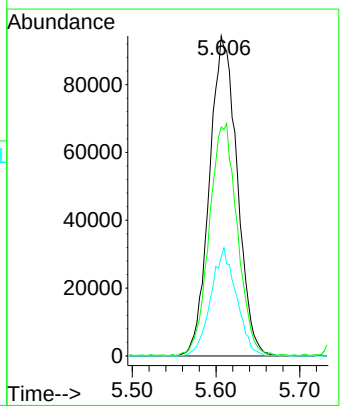
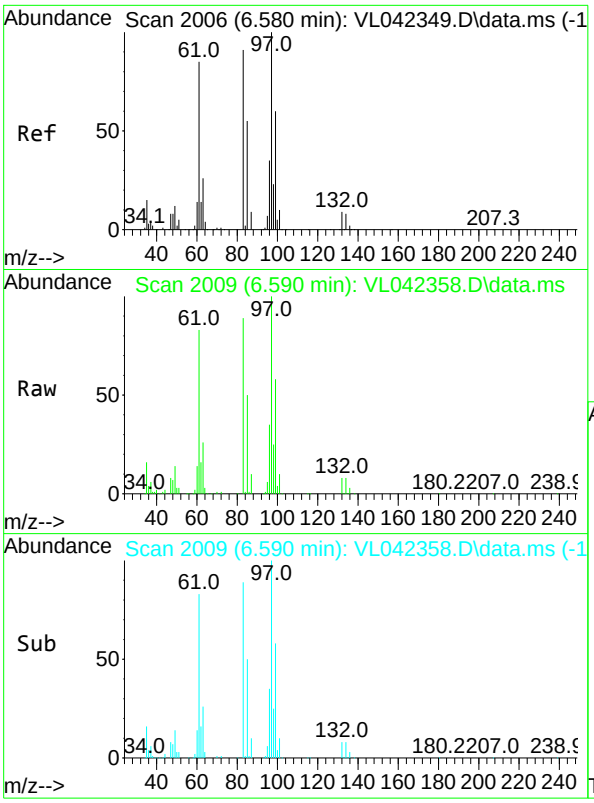



#46
cis-1,3-Dichloropropene
Concen: 10.133 ppbv
RT: 5.606 min Scan# 1705
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 75 Resp: 216901

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 39 | 71.3 | 50.0 | 75.0 |
| 77 | 31.1 | 23.0 | 34.6 |

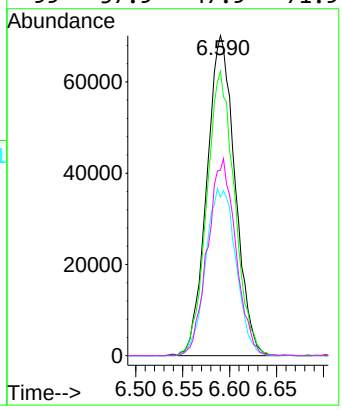





#47
1,1,2-Trichloroethane
Concen: 10.161 ppbv
RT: 6.590 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 97 Resp: 14654

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 88.7 | 72.8 | 109.2 |
| 85 | 49.6 | 44.2 | 66.4 |
| 99 | 57.9 | 47.9 | 71.9 |

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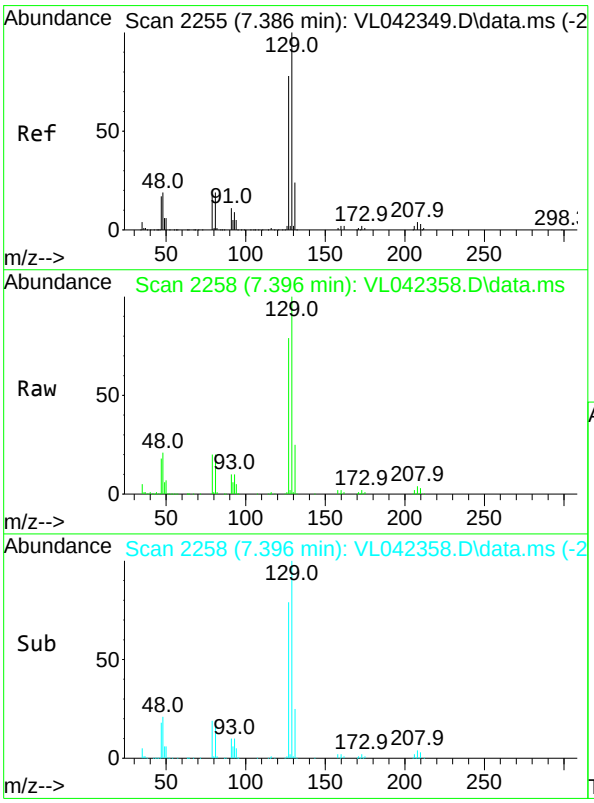
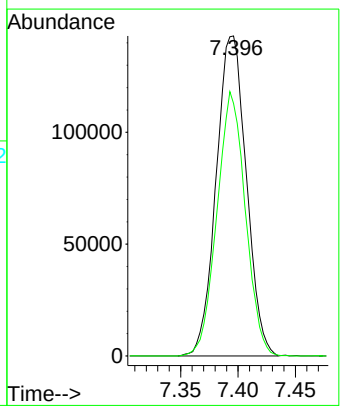
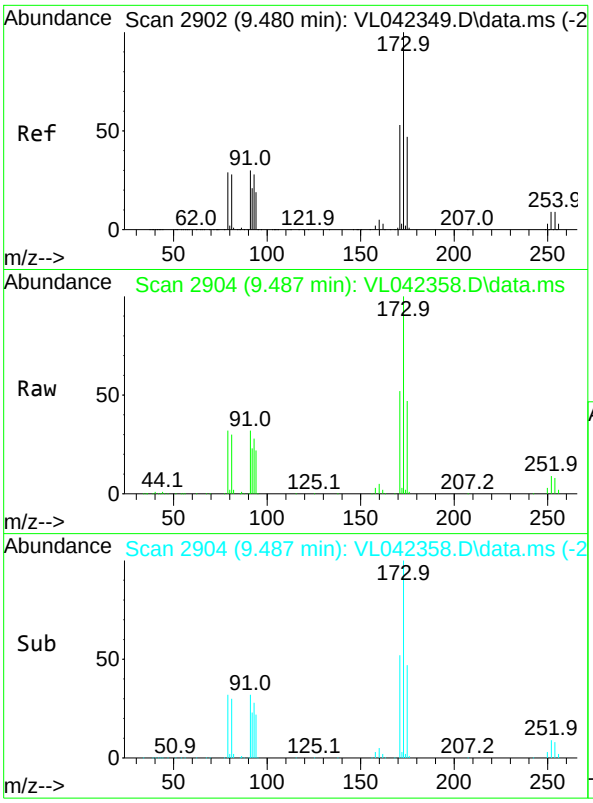



#48
Dibromochloromethane
Concen: 10.261 ppbv
RT: 7.396 min Scan# 2258
Delta R.T. 0.010 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:129 Resp: 261470

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.9 | 39.1 | 117.3 |

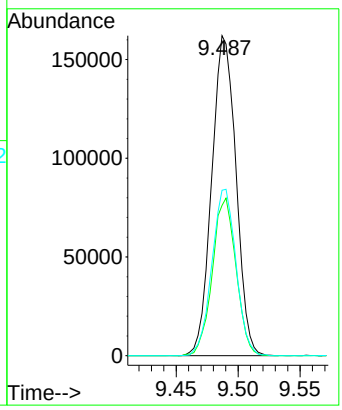





#49
Bromoform
Concen: 9.936 ppbv
RT: 9.487 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:173 Resp: 22137

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.0 | 38.2 | 57.2 |
| 171 | 51.7 | 40.9 | 61.3 |

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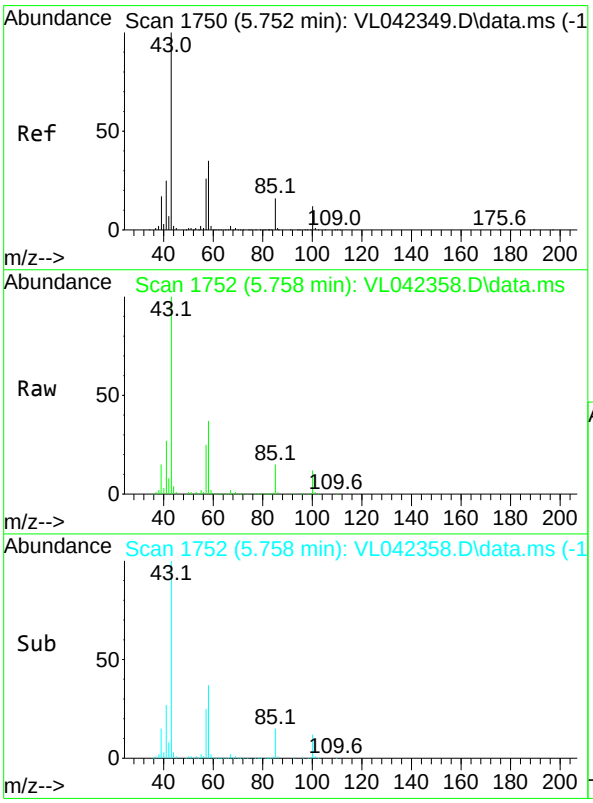
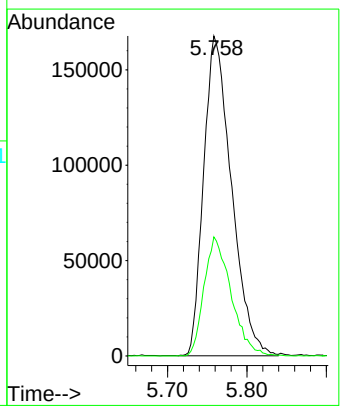
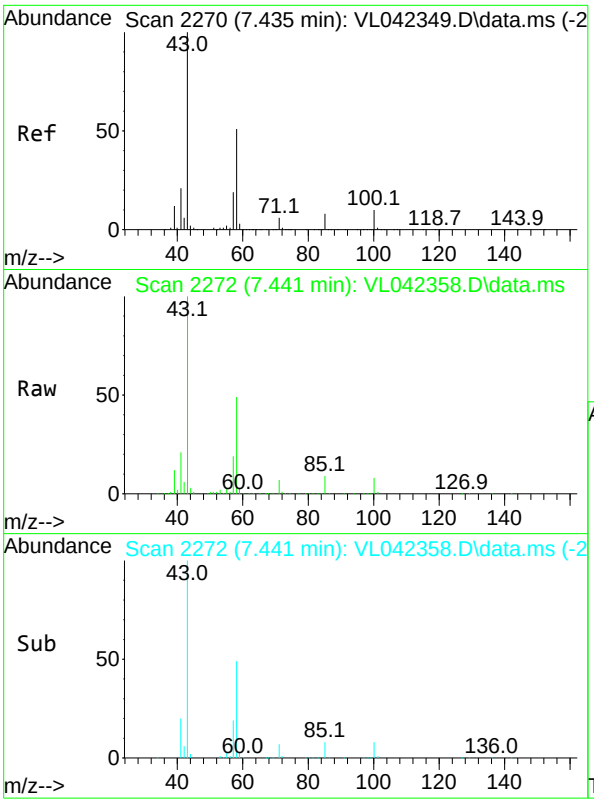



#50
4-Methyl-2-Pentanone
Concen: 8.810 ppbv
RT: 5.758 min Scan# 1752
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 43 Resp: 407804

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 36.2 | 28.6 | 43.0 |

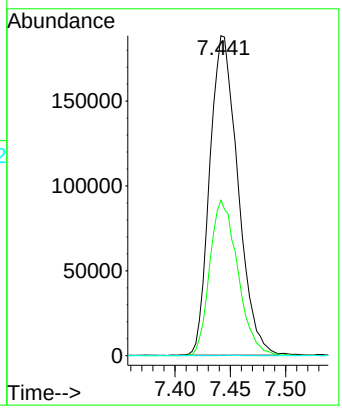





#51
2-Hexanone
Concen: 8.013 ppbv
RT: 7.441 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 43 Resp: 33264

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 48.6 | 40.2 | 60.4 |
| 98 | 0.1 | 0.1 | 0.1 |

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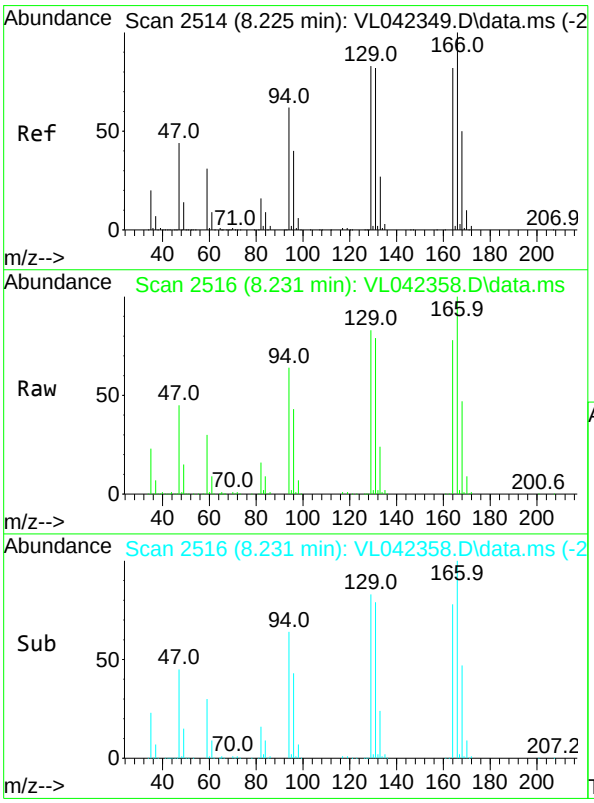
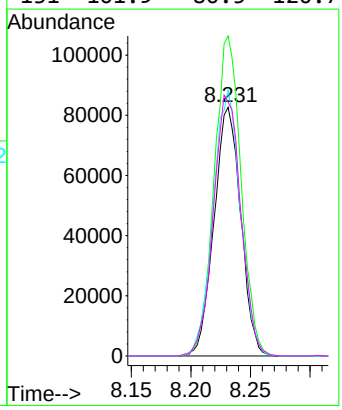
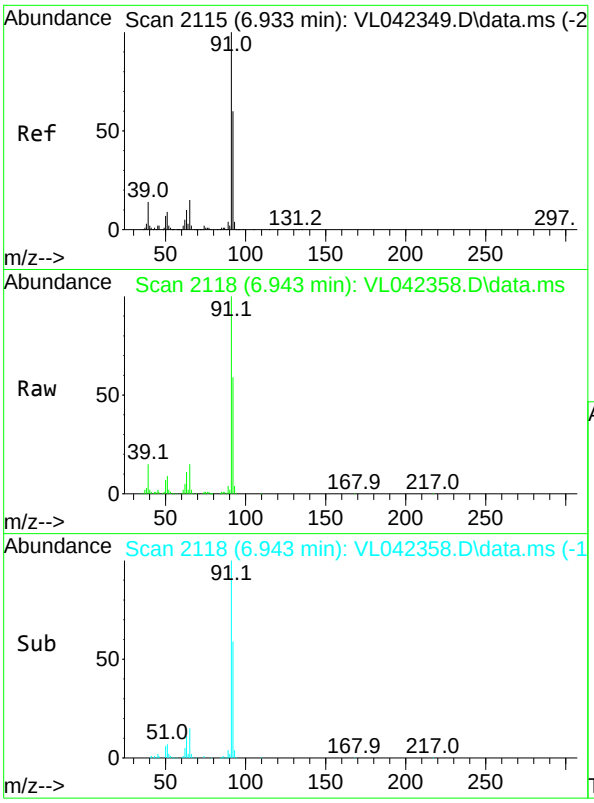



#52
Tetrachloroethene
Concen: 8.763 ppbv
RT: 8.231 min Scan# 2516
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:164 Resp: 128670

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 128.7 | 98.2 | 147.2 |
| 129 | 106.9 | 81.8 | 122.8 |
| 131 | 101.9 | 80.5 | 120.7 |

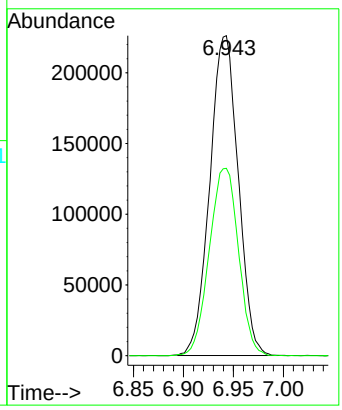





#53
Toluene
Concen: 9.818 ppbv
RT: 6.943 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 91 Resp: 44758

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 60.3 | 48.2 | 72.4 |

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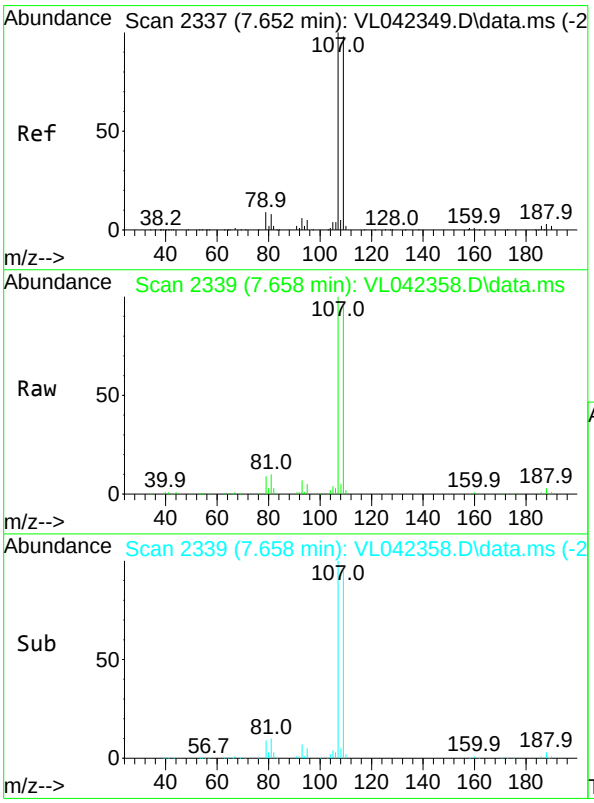
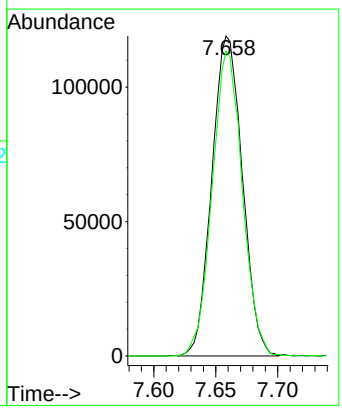
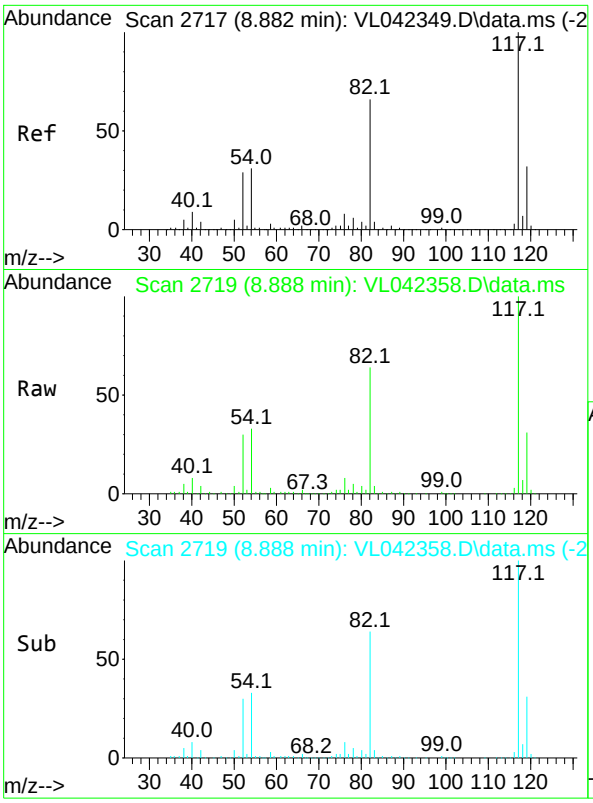



#54
1,2-Dibromoethane
Concen: 9.899 ppbv
RT: 7.658 min Scan# 2339
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:107 Resp: 204328

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 95.1 | 78.2 | 117.4 |

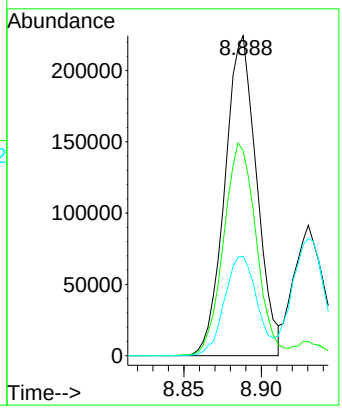





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:117 Resp: 32152

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 71.8 | 57.8 | 86.6 |
| 119 | 32.5 | 25.2 | 37.8 |

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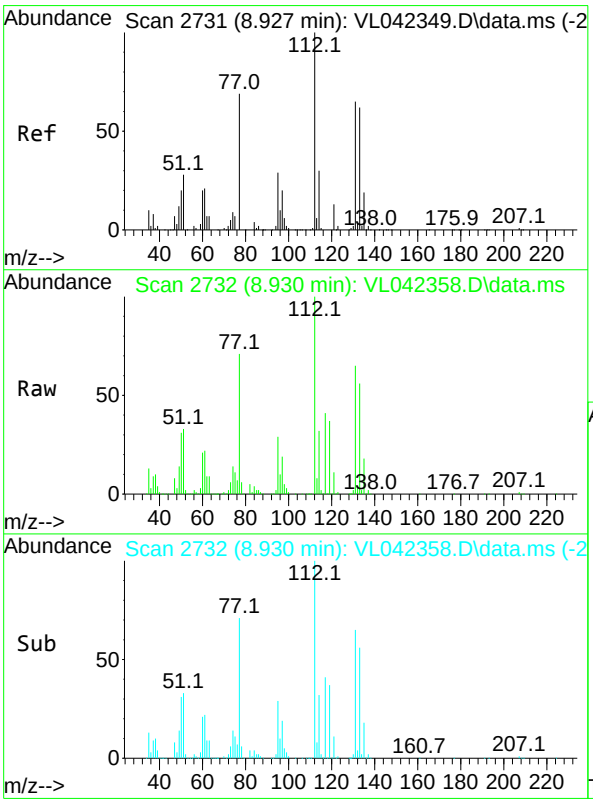
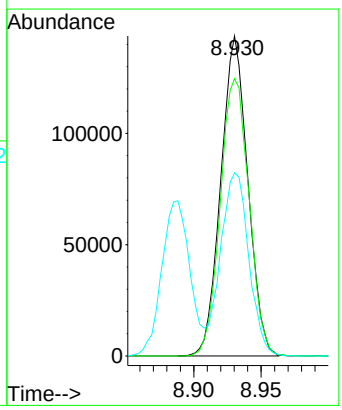
Supervised By :Mahesh Dadoda 04/18/2025

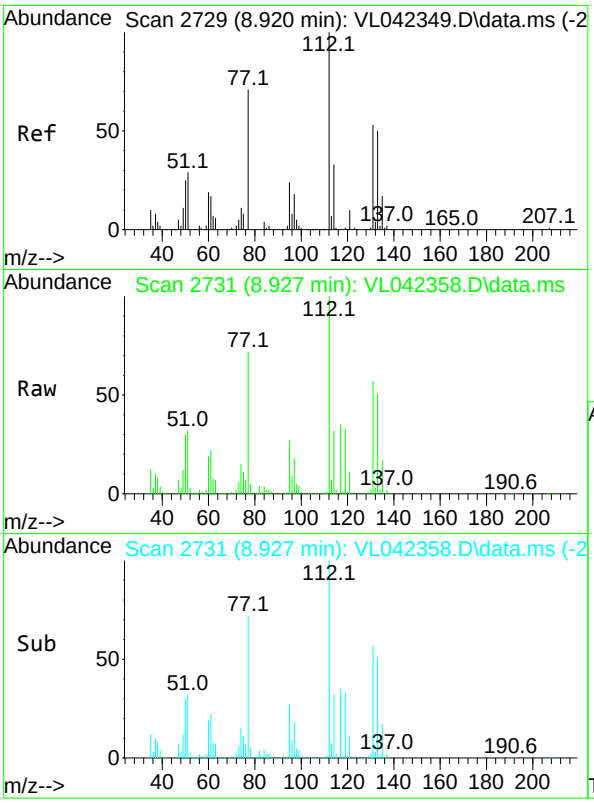



#56
1,1,1,2-Tetrachloroethane
Concen: 10.275 ppbv
RT: 8.930 min Scan# 2732
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:131 Resp: 199945

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 92.5 | 78.3 | 117.5 |
| 119 | 60.2 | 48.7 | 73.1 |






#57
Chlorobenzene
Concen: 10.022 ppbv
RT: 8.927 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:112 Resp: 33514

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 72.4 | 57.8 | 86.6 |
| 114 | 31.7 | 29.3 | 35.9 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

**Manual Integrations**
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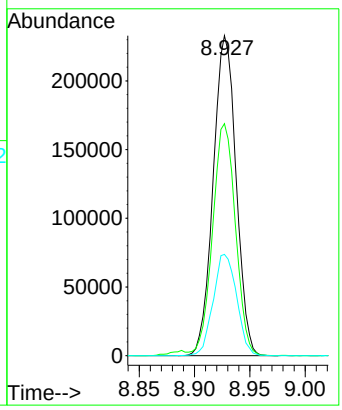
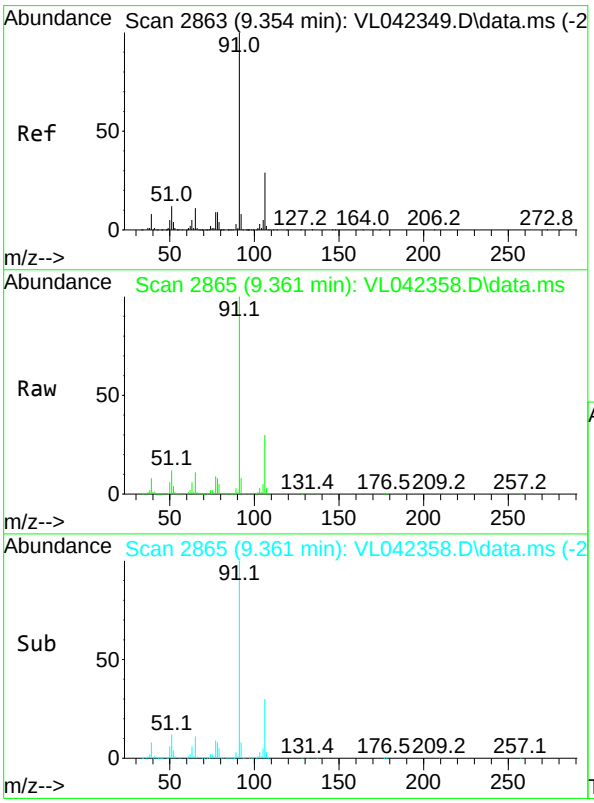
Supervised By :Mahesh Dadoda 04/18/2025

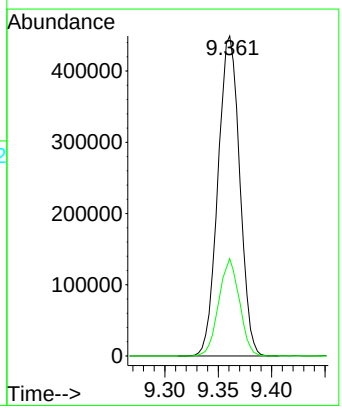


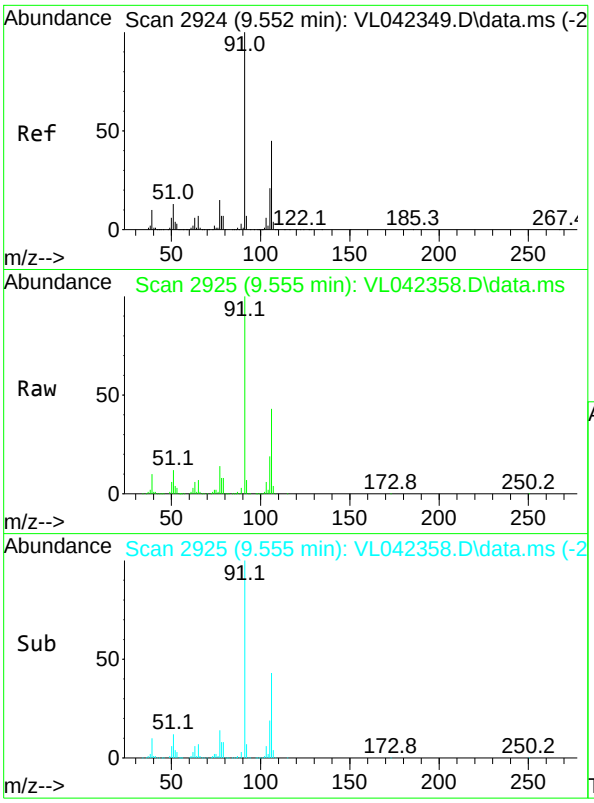




#58
Ethyl Benzene
Concen: 9.975 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 91 Resp: 635446

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.4 | 23.0 | 34.4 |

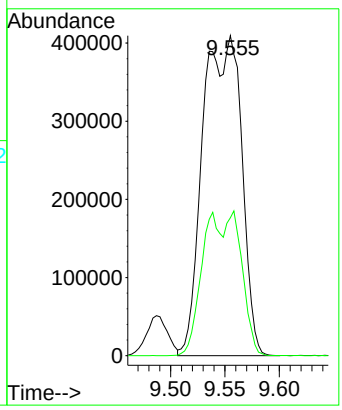





#59
m/p-Xylene
Concen: 19.806 ppbv m
RT: 9.555 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 91 Resp: 101640

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 44.3 | 35.4 | 53.2 |




**Instrument :**
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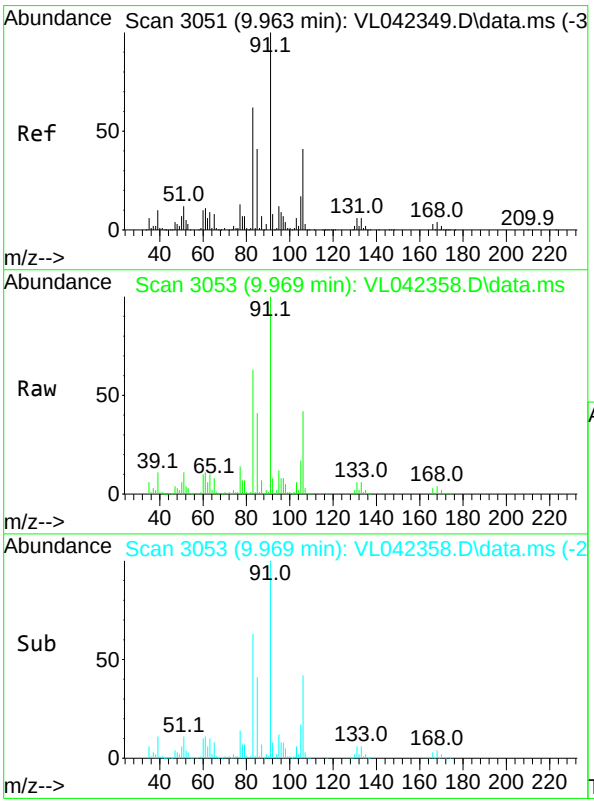
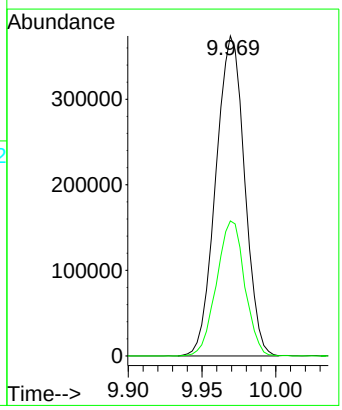
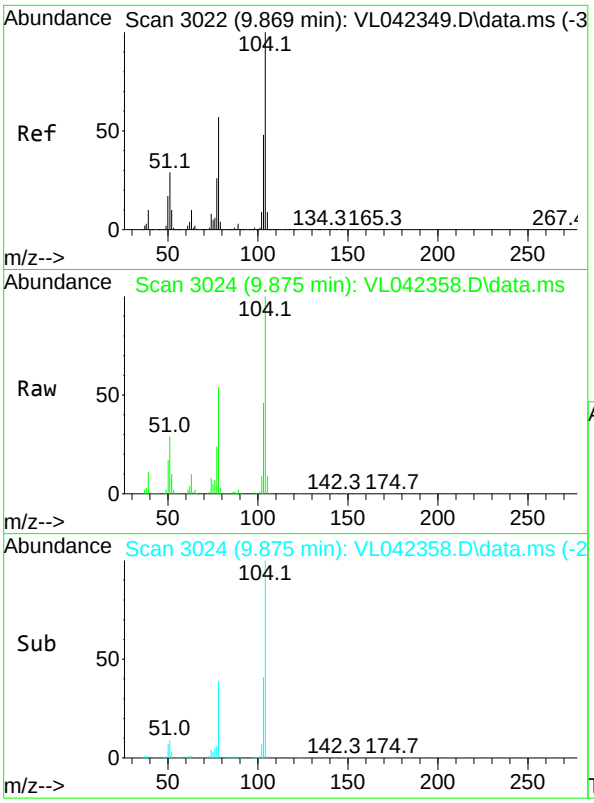



#60
o-Xylene
Concen: 9.802 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 91 Resp: 506535

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 41.4 | 21.1 | 63.4 |

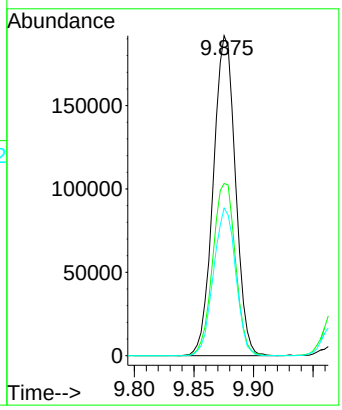





#61
Styrene
Concen: 10.055 ppbv
RT: 9.875 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:104 Resp: 24802

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 55.3 | 44.6 | 66.8 |
| 103 | 46.2 | 37.4 | 56.0 |

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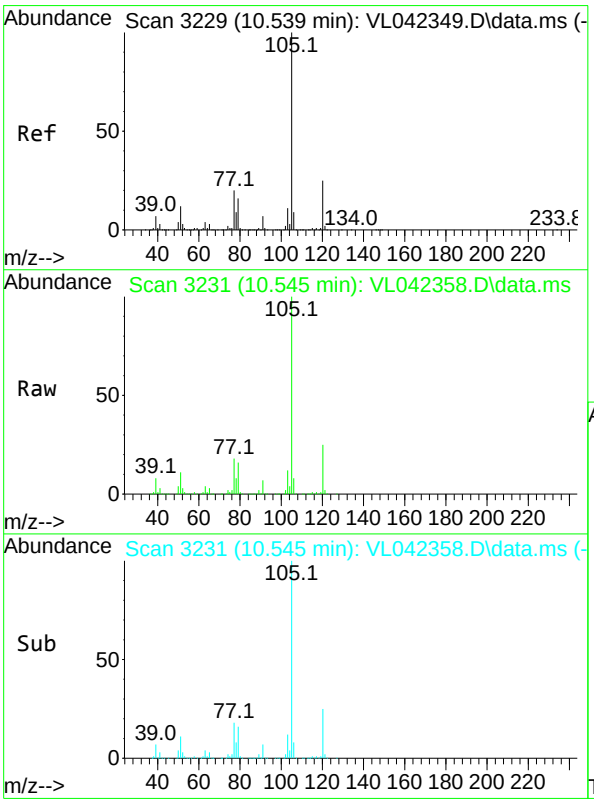
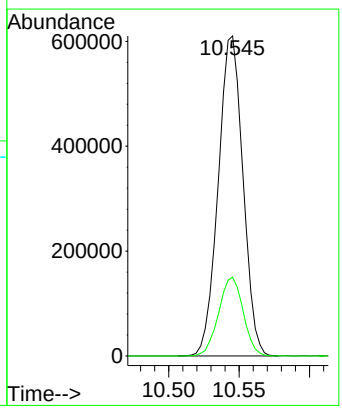
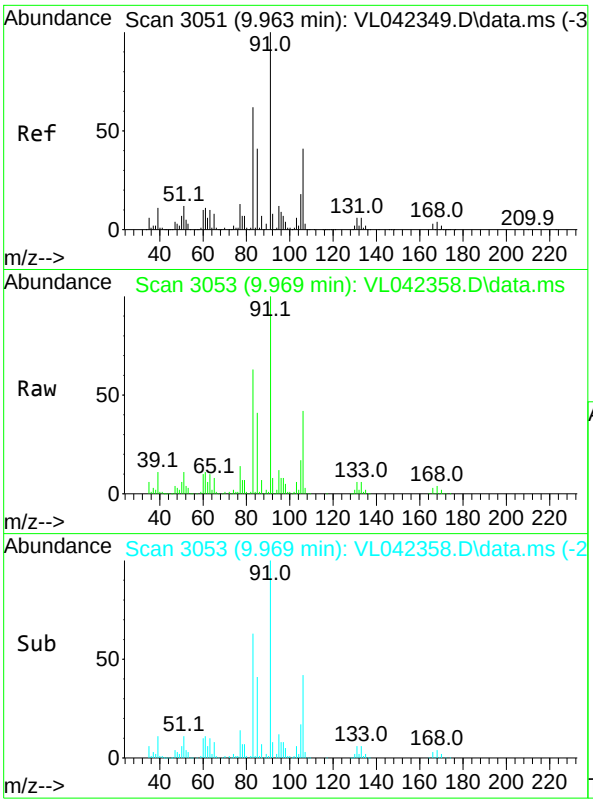



#62
Isopropylbenzene
Concen: 9.827 ppbv
RT: 10.545 min Scan# 3231
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:105 Resp: 745571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 24.5 | 19.8 | 29.8 |






#63
1,1,2,2-Tetrachloroethane
Concen: 8.916 ppbv
RT: 9.969 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 83 Resp: 29858

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.4 | 4.5 | 13.7 |
| 85 | 64.5 | 32.4 | 97.0 |

**Instrument :**
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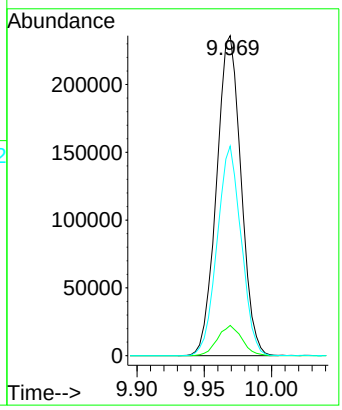
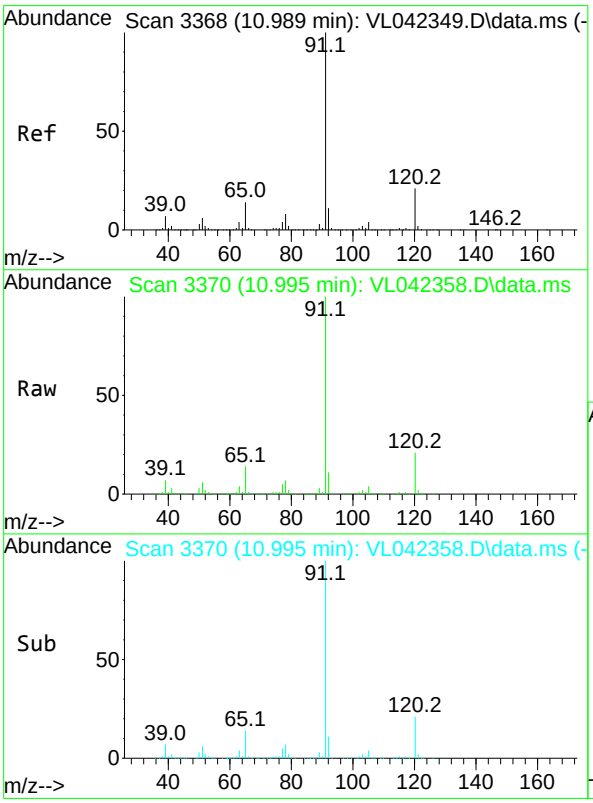
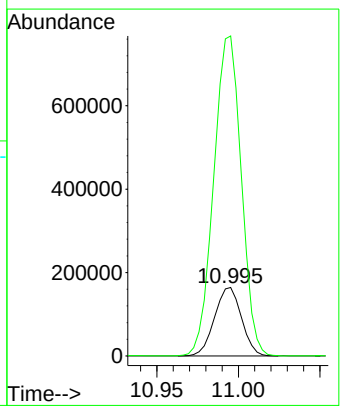


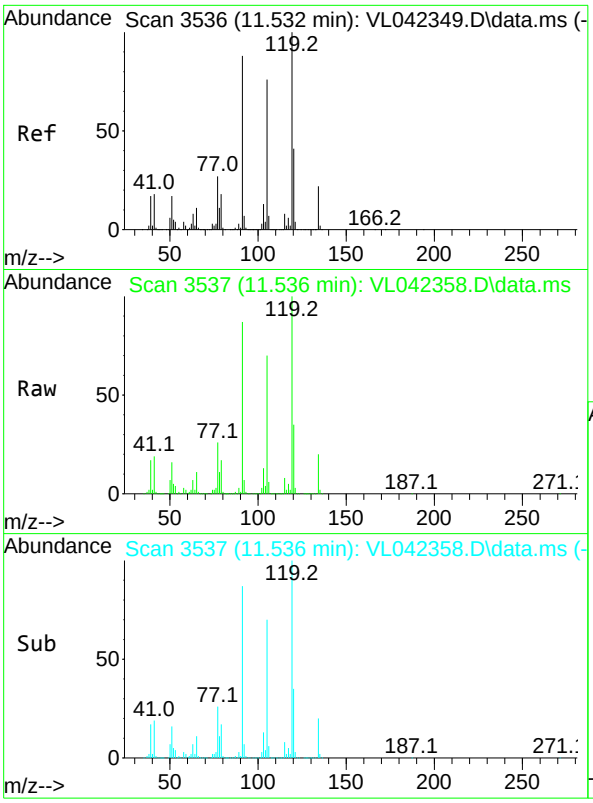




#64
n-propylbenzene
Concen: 9.875 ppbv
RT: 10.995 min Scan# 3370
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:120 Resp: 188310

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 478.2 | 392.4 | 588.6 |

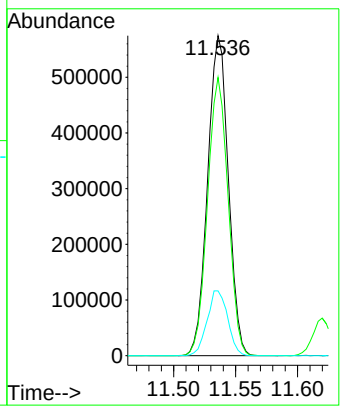





#65
tert-Butylbenzene
Concen: 9.589 ppbv
RT: 11.536 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:119 Resp: 66868

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 86.7 | 74.6 | 111.8 |
| 134 | 20.2 | 18.8 | 28.2 |

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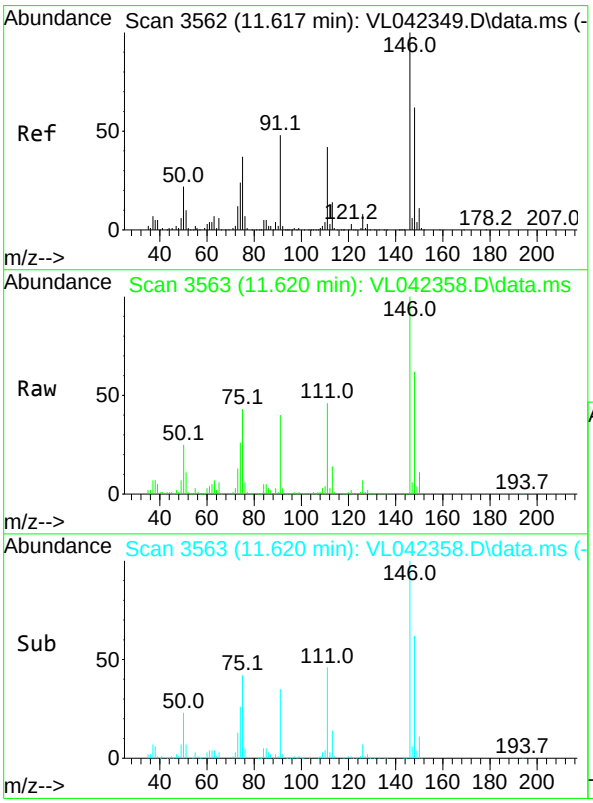
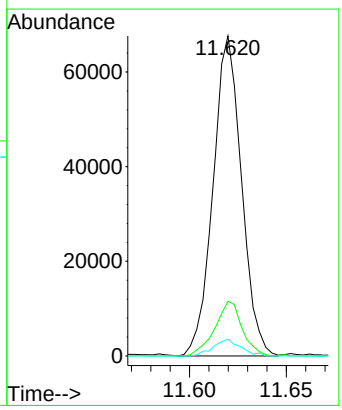
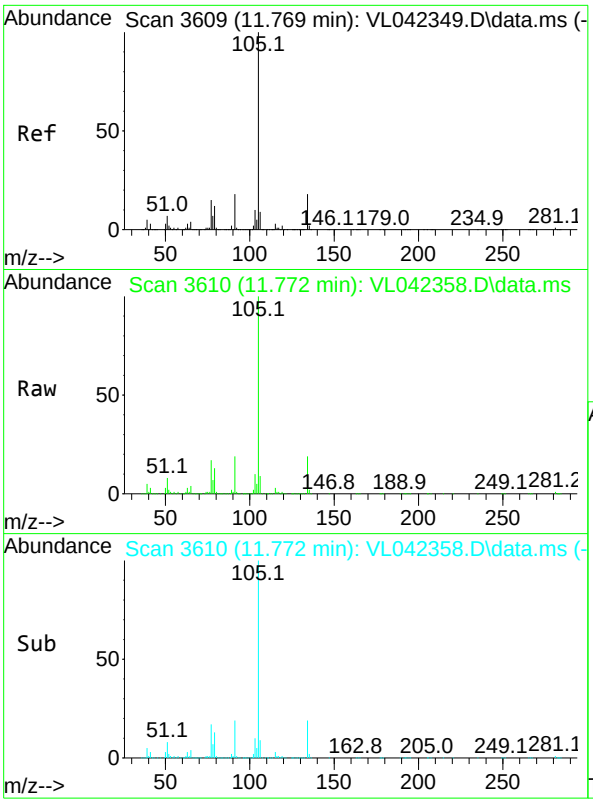



#66
Benzyl Chloride
Concen: 9.012 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 91 Resp: 69058

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 16.5 | 11.8 | 17.6 |
| 128 | 5.0 | 4.5 | 6.7 |

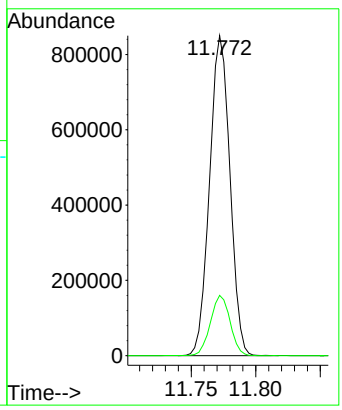





#67
sec-Butylbenzene
Concen: 9.592 ppbv
RT: 11.772 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:105 Resp: 93042

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 18.3 | 14.6 | 21.8 |




**Instrument :**
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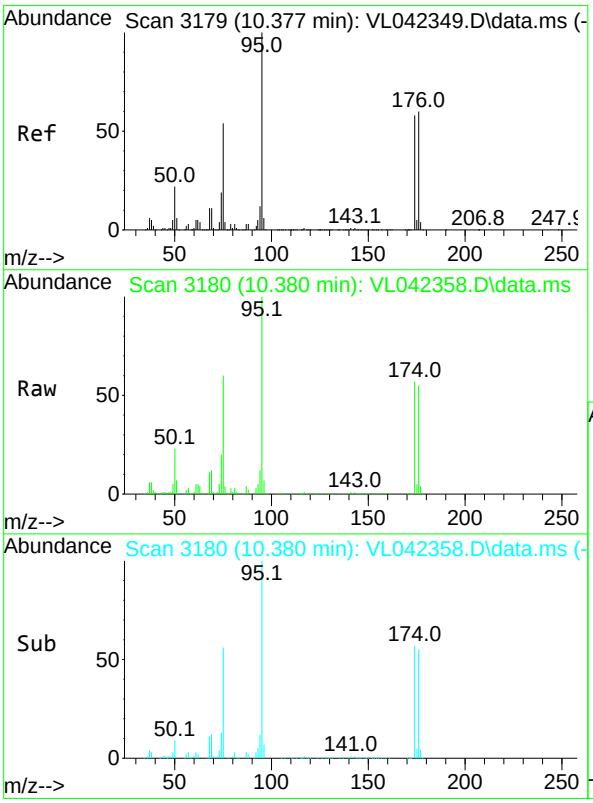
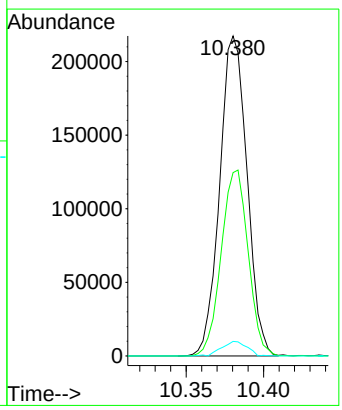
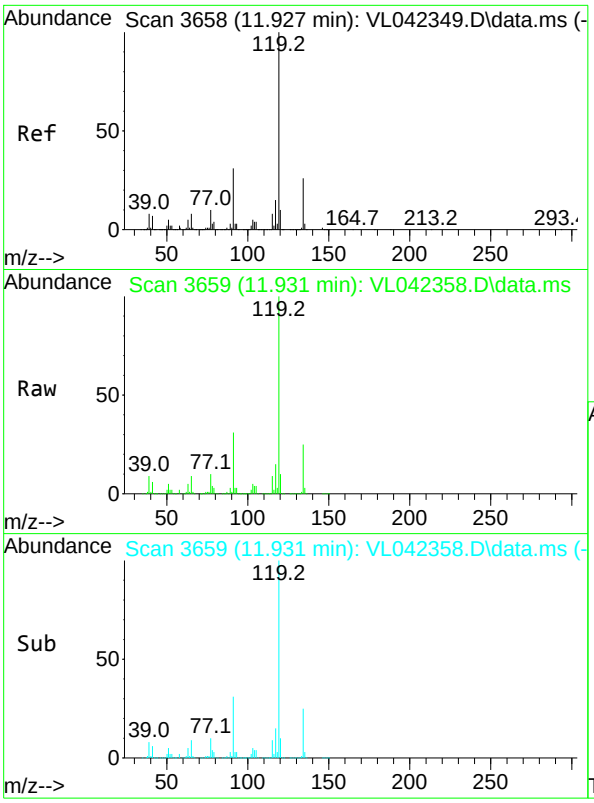



#68
1-Bromo-4-Fluorobenzene
Concen: 10.096 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 95 Resp: 266757

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 57.3 | 48.5 | 72.7 |
| 175 | 4.3 | 3.7 | 5.5 |

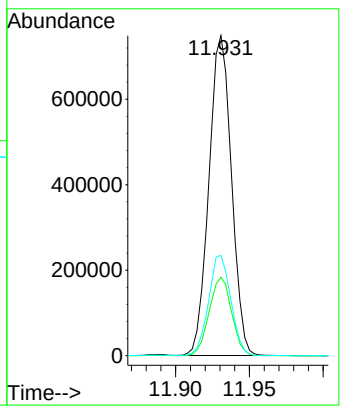





#69
p-Isopropyltoluene
Concen: 9.441 ppbv
RT: 11.931 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:119 Resp: 79553

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 24.5 | 20.0 | 30.0 |
| 91 | 31.2 | 24.4 | 36.6 |




**Instrument :**
MSVOA_L
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**Manual Integrations**
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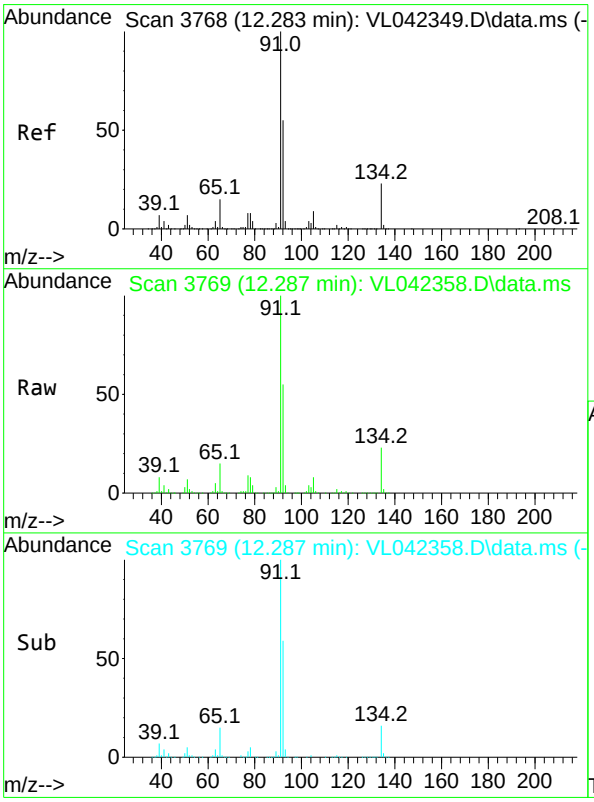
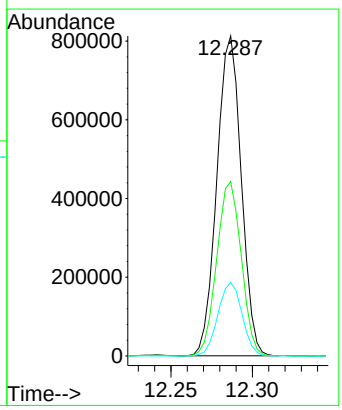
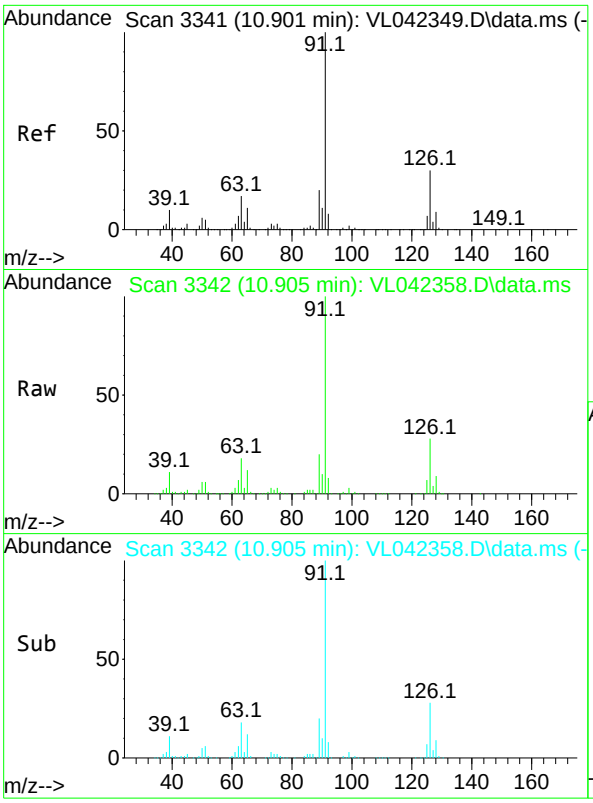



#70
n-Butylbenzene
Concen: 9.644 ppbv
RT: 12.287 min Scan# 3769
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 91 Resp: 846427

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 54.9 | 44.2 | 66.4 |
| 134 | 22.7 | 18.2 | 27.4 |

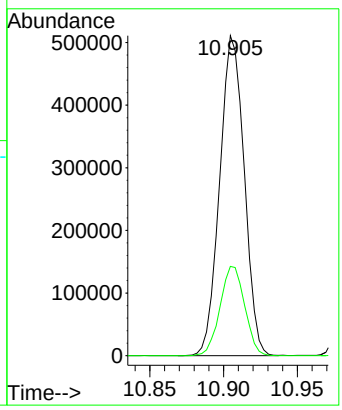





#71
2-Chlorotoluene
Concen: 9.934 ppbv
RT: 10.905 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 91 Resp: 59115

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 27.9 | 11.4 | 45.4 |

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VL0417ABS01

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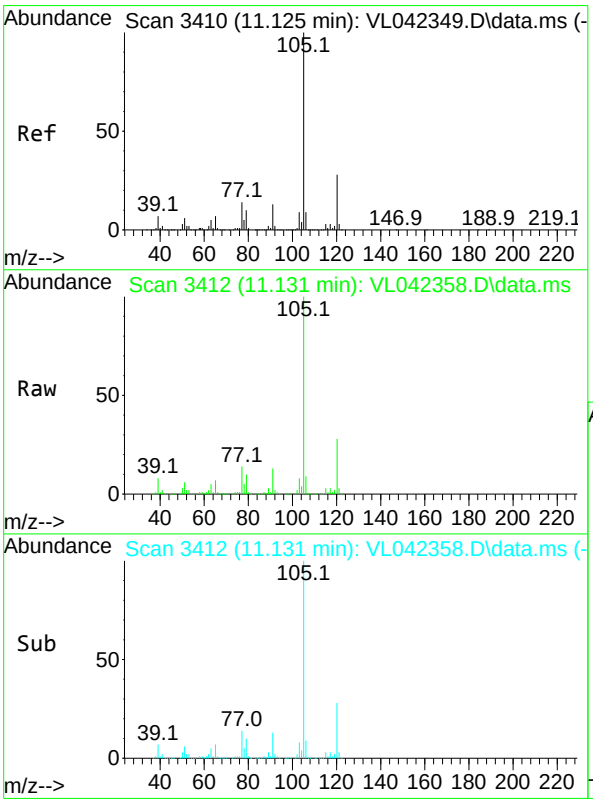
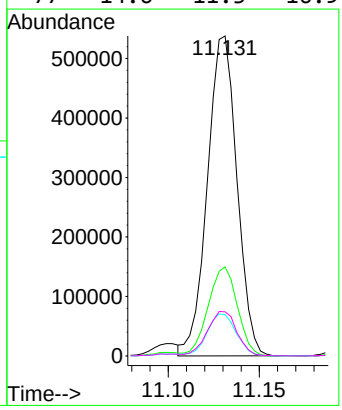
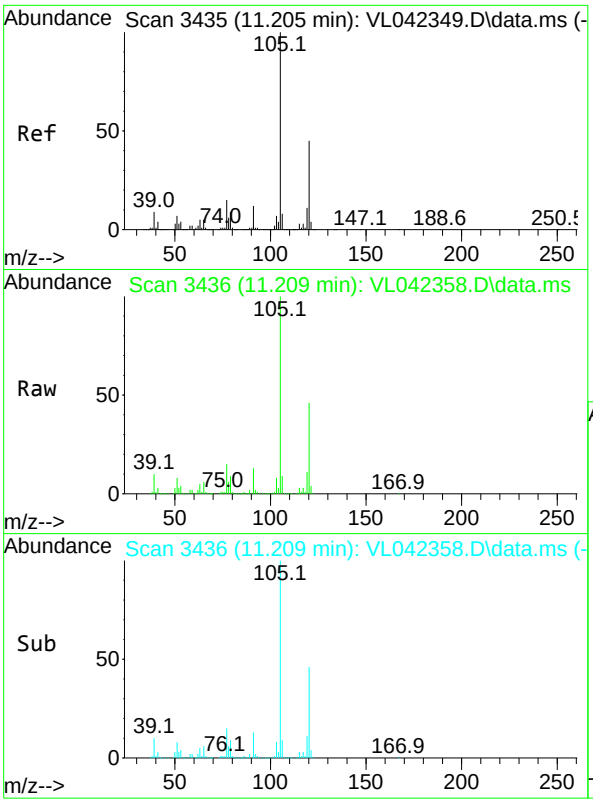



#72
4-Ethyltoluene
Concen: 9.606 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:105 Resp: 606879

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 28.6 | 23.2 | 34.8 |
| 91 | 13.5 | 10.4 | 15.6 |
| 77 | 14.6 | 11.3 | 16.9 |






#73
1,3,5-Trimethylbenzene
Concen: 9.557 ppbv
RT: 11.209 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:105 Resp: 53306

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.6 | 35.6 | 53.4 |

**Instrument :**
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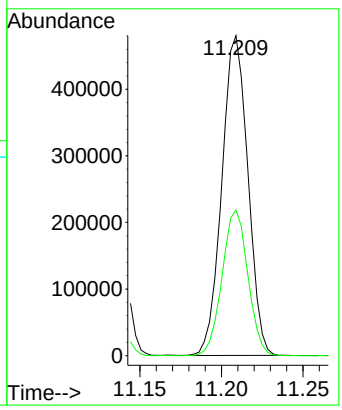
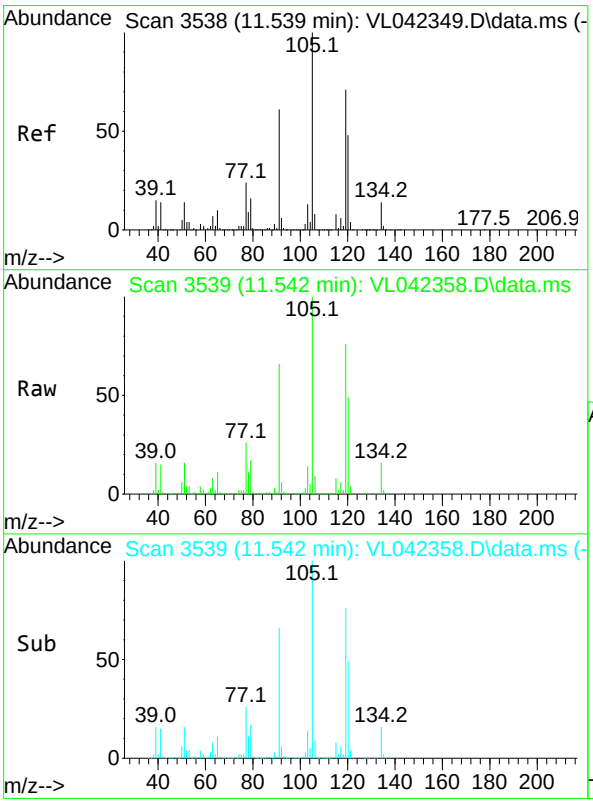
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

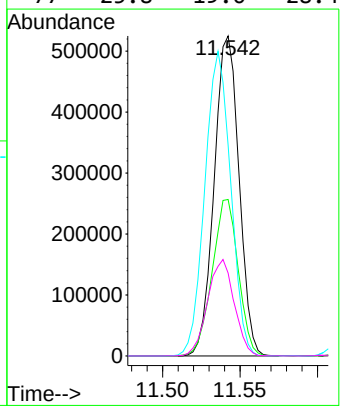


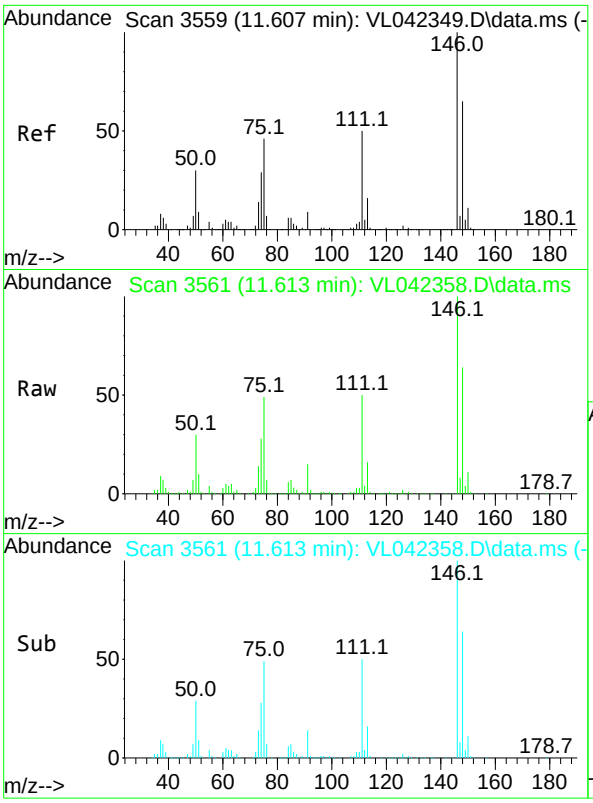




#74
1,2,4-Trimethylbenzene
Concen: 8.976 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:105 Resp: 584747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.9 | 38.1 | 57.1 |
| 91 | 65.8 | 48.8 | 73.2 |
| 77 | 25.8 | 19.0 | 28.4 |

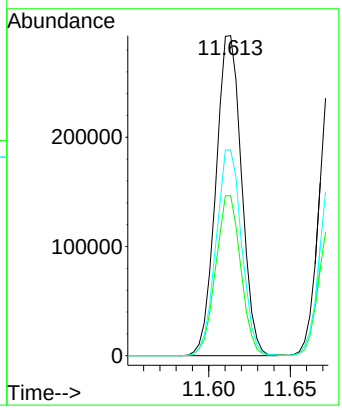





#75
1,3-Dichlorobenzene
Concen: 9.474 ppbv
RT: 11.613 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:146 Resp: 32081

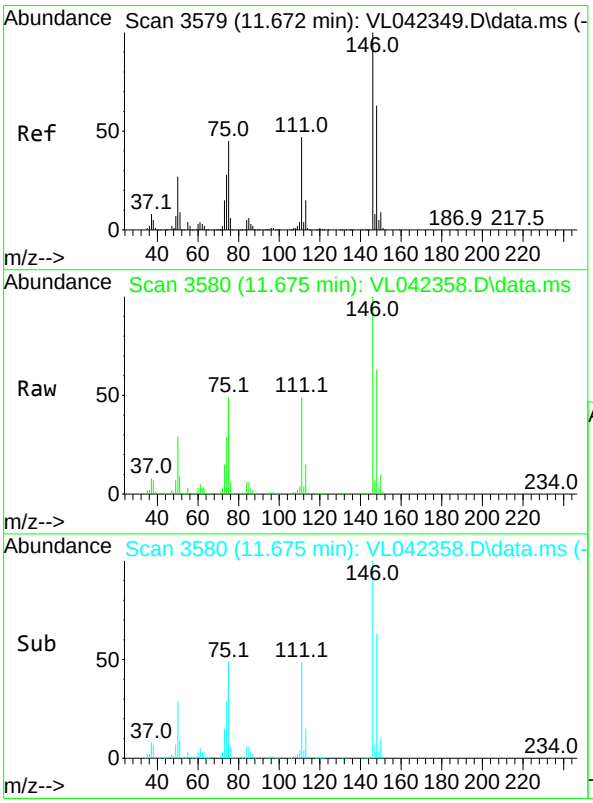
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 48.8 | 24.3 | 72.8 |
| 148 | 64.0 | 31.6 | 94.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

**Manual Integrations**
**APPROVED**

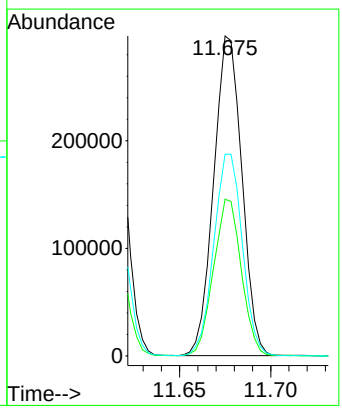
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

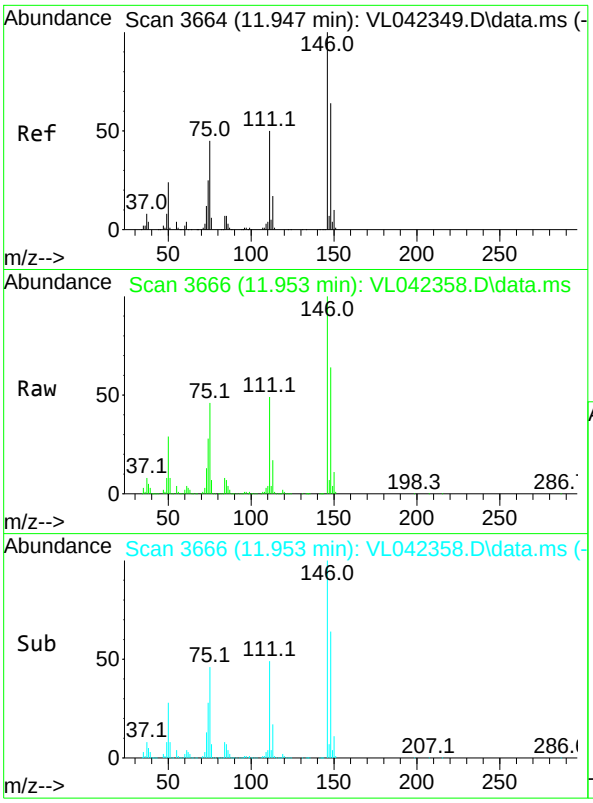



#76
1,4-Dichlorobenzene
Concen: 9.384 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:146 Resp: 319376

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 48.6 | 24.2 | 72.6 |
| 148 | 64.1 | 32.1 | 96.5 |

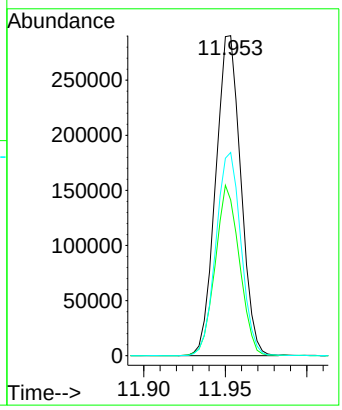





#77
1,2-Dichlorobenzene
Concen: 9.459 ppbv
RT: 11.953 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:146 Resp: 31146

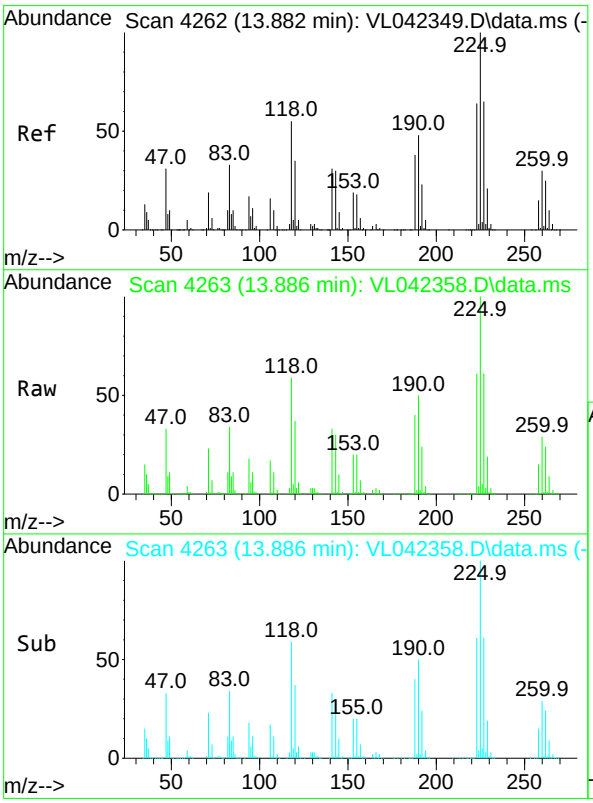
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 51.4 | 25.3 | 75.9 |
| 148 | 63.4 | 31.5 | 94.5 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

**Manual Integrations**
**APPROVED**

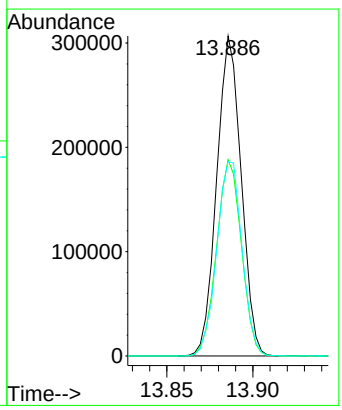
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

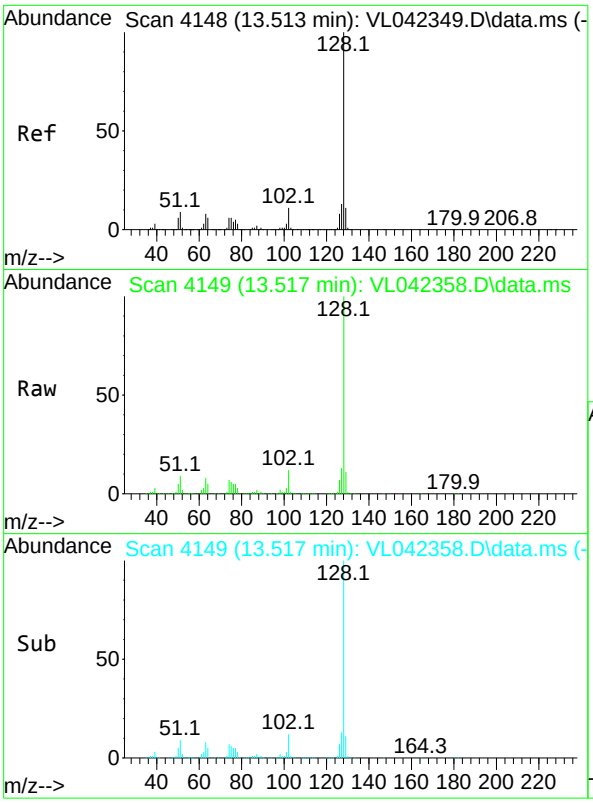



#78
Hexachloro-1,3-Butadiene
Concen: 9.124 ppbv
RT: 13.886 min Scan# 4263
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:225 Resp: 303379

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.3 | 50.3 | 75.5 |
| 227 | 62.9 | 51.5 | 77.3 |

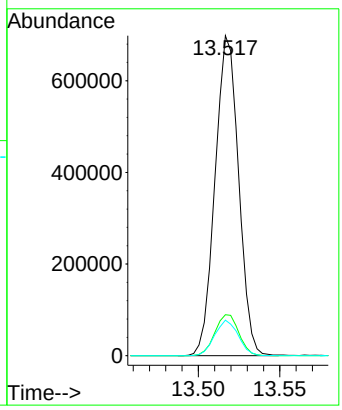





#79
Naphthalene
Concen: 8.999 ppbv
RT: 13.517 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:128 Resp: 70101

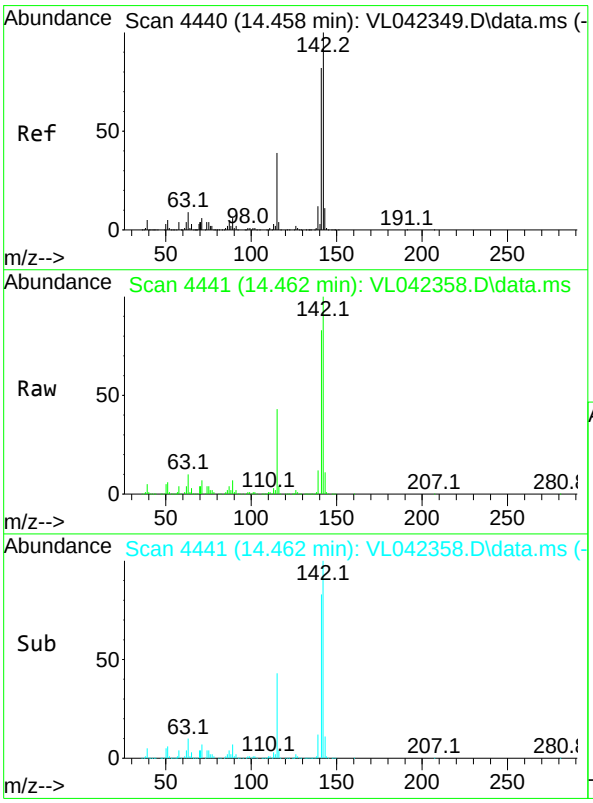
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.8 | 10.6 | 15.8 |
| 129 | 11.1 | 8.6 | 12.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

**Manual Integrations**
**APPROVED**

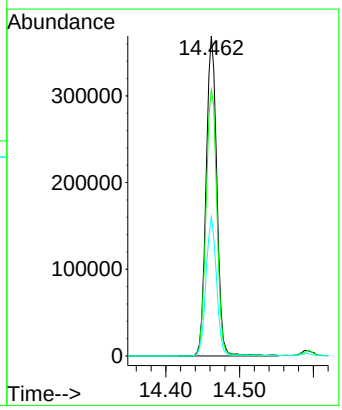
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

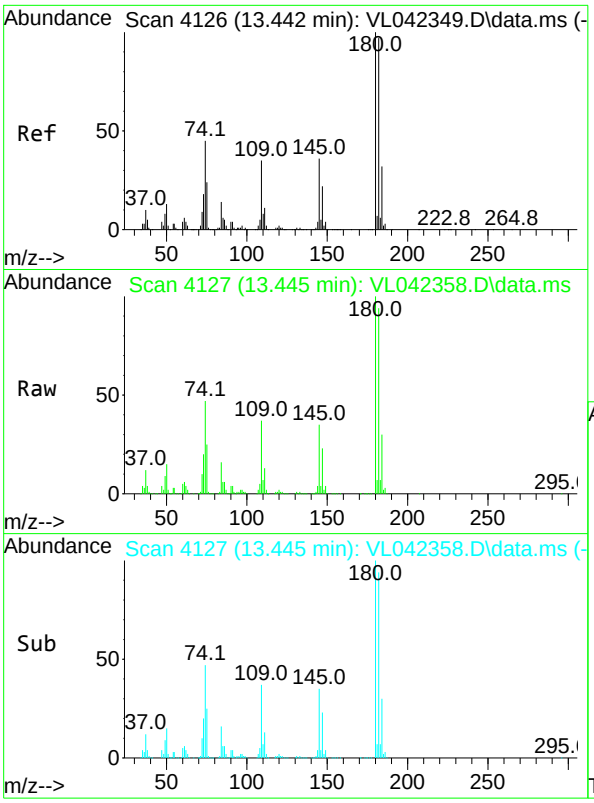



#80
Naphthalene,2-methyl-
Concen: 8.331 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:142 Resp: 369891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 85.0 | 66.8 | 100.2 |
| 115 | 42.8 | 33.4 | 50.2 |

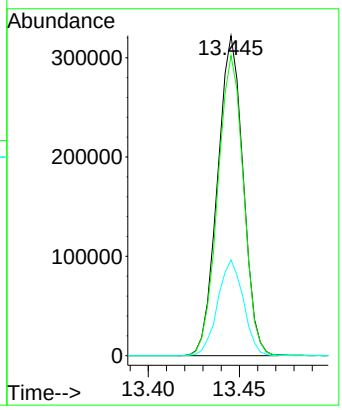





#81
1,2,4-Trichlorobenzene
Concen: 9.417 ppbv
RT: 13.445 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:180 Resp: 31500

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.8 | 76.8 | 115.2 |
| 184 | 30.1 | 24.6 | 36.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | |
| Client Sample ID: | VL0428ABS01 | SDG No.: | Q1665 |
| Lab Sample ID: | VL0428ABS01 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042418.D | 1 | | 04/28/25 10:10 | VL042825 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 10.0 | 49.5 | | 1.04 | 2.47 | ug/m3 |
| 64-17-5 | Ethanol | 3.00 | 5.65 | | 0.60 | 0.94 | ug/m3 |
| 74-87-3 | Chloromethane | 9.70 | 20.0 | | 0.21 | 1.03 | ug/m3 |
| 75-01-4 | Vinyl Chloride | 8.70 | 22.2 | | 0.030 | 0.080 | ug/m3 |
| 74-83-9 | Bromomethane | 9.40 | 36.5 | | 0.54 | 1.94 | ug/m3 |
| 75-00-3 | Chloroethane | 9.50 | 25.1 | | 0.45 | 1.32 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | 8.40 | 24.8 | | 0.38 | 1.47 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | 10.0 | 56.2 | | 0.90 | 2.81 | ug/m3 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 9.60 | 73.6 | | 1.23 | 3.83 | ug/m3 |
| 76-14-2 | Dichlorotetrafluoroethane | 10.0 | 69.9 | | 0.63 | 3.49 | ug/m3 |
| 593-60-2 | Bromoethene | 9.60 | 42.0 | | 0.52 | 2.19 | ug/m3 |
| 75-65-0 | tert-Butyl alcohol | 8.90 | 27.0 | | 0.58 | 1.52 | ug/m3 |
| 142-82-5 | Heptane | 7.60 | 31.1 | | 0.45 | 2.05 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | 8.80 | 21.6 | | 0.17 | 1.23 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethene | 9.20 | 36.5 | | 0.56 | 1.98 | ug/m3 |
| 67-64-1 | Acetone | 8.60 | 20.4 | | 0.57 | 1.19 | ug/m3 |
| 75-15-0 | Carbon Disulfide | 9.40 | 29.3 | | 0.50 | 1.56 | ug/m3 |
| 1634-04-4 | Methyl tert-Butyl Ether | 8.70 | 31.4 | | 0.43 | 1.80 | ug/m3 |
| 75-09-2 | Methylene Chloride | 7.90 | 27.4 | | 0.66 | 1.74 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethene | 9.20 | 36.5 | | 0.75 | 1.98 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | 9.40 | 38.0 | | 0.53 | 2.02 | ug/m3 |
| 110-82-7 | Cyclohexane | 8.60 | 29.6 | | 0.76 | 1.72 | ug/m3 |
| 78-93-3 | 2-Butanone | 8.60 | 25.4 | | 0.35 | 1.47 | ug/m3 |
| 56-23-5 | Carbon Tetrachloride | 9.90 | 62.3 | | 0.060 | 0.19 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethene | 9.50 | 37.7 | | 0.36 | 1.98 | ug/m3 |
| 67-66-3 | Chloroform | 9.80 | 47.9 | | 0.39 | 2.44 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | 9.50 | 51.8 | | 0.050 | 0.16 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | 8.70 | 40.6 | | 0.47 | 2.34 | ug/m3 |
| 71-43-2 | Benzene | 9.00 | 28.8 | | 0.29 | 1.60 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | 10.6 | 42.9 | | 0.36 | 2.02 | ug/m3 |
| 79-01-6 | Trichloroethene | 8.30 | 44.6 | | 0.11 | 0.16 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | 8.80 | 40.7 | | 0.51 | 2.31 | ug/m3 |
| 75-27-4 | Bromodichloromethane | 10.2 | 68.3 | | 0.54 | 3.35 | ug/m3 |
| 108-10-1 | 4-Methyl-2-Pentanone | 7.70 | 31.6 | | 0.37 | 2.05 | ug/m3 |
| 108-88-3 | Toluene | 8.90 | 33.5 | | 0.41 | 1.88 | ug/m3 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | |
| Client Sample ID: | VL0428ABS01 | SDG No.: | Q1665 |
| Lab Sample ID: | VL0428ABS01 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042418.D | 1 | | 04/28/25 10:10 | VL042825 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 9.10 | 41.3 | | 0.27 | 2.27 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | 9.10 | 41.3 | | 0.27 | 2.27 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | 9.50 | 51.8 | | 0.38 | 2.73 | ug/m3 |
| 124-48-1 | Dibromochloromethane | 9.80 | 83.5 | | 0.60 | 4.26 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane | 9.20 | 70.7 | | 0.54 | 0.77 | ug/m3 |
| 127-18-4 | Tetrachloroethene | 8.10 | 54.9 | | 0.14 | 0.20 | ug/m3 |
| 108-90-7 | Chlorobenzene | 9.50 | 43.8 | | 0.37 | 2.30 | ug/m3 |
| 100-41-4 | Ethyl Benzene | 9.30 | 40.4 | | 0.52 | 2.17 | ug/m3 |
| 179601-23-1 | m/p-Xylene | 19.0 | 82.5 | | 0.91 | 4.34 | ug/m3 |
| 95-47-6 | o-Xylene | 9.50 | 41.3 | | 0.52 | 2.17 | ug/m3 |
| 100-42-5 | Styrene | 9.10 | 38.7 | | 0.47 | 2.13 | ug/m3 |
| 75-25-2 | Bromoform | 9.20 | 95.1 | | 0.62 | 5.17 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 8.80 | 60.4 | | 0.070 | 0.21 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | 9.60 | 49.7 | | 0.57 | 2.59 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 9.30 | 45.7 | | 0.54 | 2.46 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 8.90 | 43.8 | | 0.39 | 2.46 | ug/m3 |
| 541-73-1 | 1,3-Dichlorobenzene | 9.00 | 54.1 | | 0.48 | 3.01 | ug/m3 |
| 106-46-7 | 1,4-Dichlorobenzene | 9.00 | 54.1 | | 0.30 | 3.01 | ug/m3 |
| 95-50-1 | 1,2-Dichlorobenzene | 9.10 | 54.7 | | 0.48 | 3.01 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 8.70 | 64.6 | | 0.67 | 3.71 | ug/m3 |
| 87-68-3 | Hexachloro-1,3-Butadiene | 8.80 | 93.9 | | 0.96 | 5.33 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | 9.00 | 19.9 | | 0.29 | 1.11 | ug/m3 |
| 91-20-3 | Naphthalene | 8.50 | 44.6 | | 0.42 | 0.52 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | 9.40 | 46.2 | | 0.59 | 2.46 | ug/m3 |
| 110-54-3 | Hexane | 8.10 | 28.6 | | 0.39 | 1.76 | ug/m3 |
| 107-05-1 | Allyl Chloride | 9.00 | 28.2 | | 0.47 | 1.57 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | 8.00 | 28.8 | | 0.76 | 1.80 | ug/m3 |
| 80-62-6 | Methyl Methacrylate | 8.30 | 34.0 | | 0.37 | 2.05 | ug/m3 |
| **SURROGATES** | | | | | | | |
| 460-00-4 | 1-Bromo-4-Fluorobenzene | 10.5 | | | 70 (65) - 130 (135) | 105% | SPK: 10 |
| **INTERNAL STANDARDS** | | | | | | | |
| 74-97-5 | Bromochloromethane | 122000 | | 2.78 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 337000 | | 3.952 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 299000 | | 8.875 | | | |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | |
| Client Sample ID: | VL0428ABS01 | SDG No.: | Q1665 |
| Lab Sample ID: | VL0428ABS01 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042418.D | 1 | | 04/28/25 10:10 | VL042825 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042418.D
Acq On : 28 Apr 2025 10:10
Operator : SY/MD
Sample : VL0428ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 29 01:32:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.780 | 49 | 122448 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.952 | 114 | 337202 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.875 | 117 | 299130 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.370 | 95 | 258626 | 10.521 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 105.200% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.495 | 85 | 216893 | 10.025 | ppbv | 99 |
| 3) Chlorodifluoromethane | 1.473 | 51 | 187830 | 9.117 | ppbv | 97 |
| 4) Chloromethane | 1.531 | 50 | 82976 | 9.692 | ppbv | 98 |
| 5) Vinyl Chloride | 1.576 | 62 | 81506 | 8.746 | ppbv | 96 |
| 6) Bromomethane | 1.664 | 94 | 37549 | 9.379 | ppbv | 86 |
| 7) Chloroethane | 1.703 | 64 | 31924 | 9.472 | ppbv | 98 |
| 8) Dichlorotetrafluoroethane | 1.550 | 85 | 184850 | 9.952 | ppbv | 95 |
| 9) Propene | 1.482 | 41 | 74980 | 7.992 | ppbv | 95 |
| 10) Heptane | 4.968 | 43 | 199403 | 7.565 | ppbv | 99 |
| 11) Trichlorofluoromethane | 1.874 | 101 | 205815 | 10.004 | ppbv | 95 |
| 12) 1,1,2-Trichlorotrifluo... | 2.136 | 101 | 161799 | 9.619 | ppbv | 97 |
| 13) Ethanol | 1.719 | 45 | 4439 | 2.977 | ppbv | 81 |
| 14) Bromoethene | 1.780 | 108 | 60748 | 9.581 | ppbv | 97 |
| 15) Acetone | 1.832 | 43 | 172651 | 8.613 | ppbv | 99 |
| 16) 1,3-Butadiene | 1.605 | 39 | 86553 | 9.028 | ppbv | 94 |
| 17) tert-Butyl alcohol | 2.036 | 59 | 221069 | 8.899 | ppbv | 100 |
| 18) 1,1-Dichloroethene | 2.029 | 96 | 72496 | 9.225 | ppbv | 98 |
| 19) Isopropyl Alcohol | 1.884 | 45 | 97525 | 8.758 | ppbv | 88 |
| 20) Methylene Chloride | 2.059 | 84 | 62175 | 7.920 | ppbv | 89 |
| 21) Allyl Chloride | 2.091 | 41 | 124058 | 8.964 | ppbv | 97 |
| 22) trans-1,2-Dichloroethene | 2.337 | 96 | 82175 | 9.184 | ppbv | 97 |
| 23) Vinyl Acetate | 2.457 | 43 | 67206 | 8.283 | ppbv # | 99 |
| 24) 1,1-Dichloroethane | 2.405 | 63 | 159644 | 9.393 | ppbv | 99 |
| 25) Ethyl Acetate | 2.832 | 43 | 419372 | 8.485 | ppbv | 99 |
| 26) Hexane | 2.819 | 57 | 162255 | 8.112 | ppbv | 99 |
| 27) Carbon Disulfide | 2.146 | 76 | 200806 | 9.377 | ppbv | 97 |
| 28) Methyl tert-Butyl Ether | 2.437 | 73 | 114239 | 8.718 | ppbv | 92 |
| 29) Chloroform | 2.842 | 83 | 275655 | 9.751 | ppbv | 100 |
| 30) Cyclohexane | 3.848 | 84 | 138766 | 8.583 | ppbv | 98 |
| 31) cis-1,2-Dichloroethene | 2.716 | 61 | 179960 | 9.464 | ppbv | 97 |
| 32) 1,1,1-Trichloroethane | 3.363 | 97 | 301358 | 9.469 | ppbv | 100 |
| 34) 2-Butanone | 2.554 | 43 | 230104 | 8.628 | ppbv | 99 |
| 35) Carbon Tetrachloride | 3.755 | 117 | 302298 | 9.906 | ppbv | 96 |
| 36) Benzene | 3.648 | 78 | 329117 | 9.049 | ppbv | 94 |
| 37) 1,2-Dichloroethane | 3.214 | 62 | 232279 | 10.641 | ppbv | 97 |
| 38) Trichloroethene | 4.541 | 130 | 131178 | 8.252 | ppbv | 93 |
| 39) 1,2-Dichloropropane | 4.308 | 63 | 119692 | 8.831 | ppbv | 93 |
| 40) 1,4-Dioxane | 4.577 | 88 | 59666 | 8.010 | ppbv # | 91 |
| 41) Tetrahydrofuran | 3.049 | 42 | 131046 | 8.428 | ppbv | 98 |
| 42) Bromodichloromethane | 4.480 | 83 | 310553 | 10.222 | ppbv # | 99 |
| 43) Methyl Methacrylate | 4.871 | 69 | 136249 | 8.312 | ppbv | 97 |
| 44) 2,2,4-Trimethylpentane | 4.628 | 57 | 546967 | 8.707 | ppbv | 97 |
| 45) t-1,3-Dichloropropene | 6.402 | 75 | 152930 | 9.133 | ppbv | 96 |

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042418.D
Acq On : 28 Apr 2025 10:10
Operator : SY/MD
Sample : VL0428ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 29 01:32:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 46) | cis-1,3-Dichloropropene | 5.587 | 75 | 185557 | 9.055 | ppbv | | 91 |
| 47) | 1,1,2-Trichloroethane | 6.574 | 97 | 130821 | 9.474 | ppbv | | 95 |
| 48) | Dibromochloromethane | 7.376 | 129 | 237927 | 9.753 | ppbv | | 100 |
| 49) | Bromoform | 9.477 | 173 | 196872 | 9.229 | ppbv | | 99 |
| 50) | 4-Methyl-2-Pentanone | 5.742 | 43 | 342379 | 7.726 | ppbv | | 98 |
| 51) | 2-Hexanone | 7.428 | 43 | 280580 | 7.060 | ppbv | # | 95 |
| 52) | Tetrachloroethene | 8.218 | 164 | 113273 | 8.058 | ppbv | | 95 |
| 53) | Toluene | 6.923 | 91 | 388626 | 8.904 | ppbv | | 99 |
| 54) | 1,2-Dibromoethane | 7.642 | 107 | 181632 | 9.191 | ppbv | | 92 |
| 56) | 1,1,1,2-Tetrachloroethane | 8.917 | 131 | 180122 | 9.949 | ppbv | | 96 |
| 57) | Chlorobenzene | 8.917 | 112 | 294922 | 9.480 | ppbv | | 97 |
| 58) | Ethyl Benzene | 9.347 | 91 | 552423 | 9.321 | ppbv | | 100 |
| 59) | m/p-Xylene | 9.545 | 91 | 907157m | 19.000 | ppbv | | |
| 60) | o-Xylene | 9.959 | 91 | 457491 | 9.515 | ppbv | | 98 |
| 61) | Styrene | 9.865 | 104 | 208517 | 9.086 | ppbv | | 97 |
| 62) | Isopropylbenzene | 10.535 | 105 | 673842 | 9.546 | ppbv | | 97 |
| 63) | 1,1,2,2-Tetrachloroethane | 9.956 | 83 | 273641 | 8.783 | ppbv | | 100 |
| 64) | n-propylbenzene | 10.985 | 120 | 164482 | 9.271 | ppbv | | 98 |
| 65) | tert-Butylbenzene | 11.526 | 119 | 612519 | 9.441 | ppbv | | 95 |
| 66) | Benzyl Chloride | 11.610 | 91 | 54781 | 7.684 | ppbv | | 98 |
| 67) | sec-Butylbenzene | 11.765 | 105 | 846457 | 9.380 | ppbv | | 99 |
| 69) | p-Isopropyltoluene | 11.921 | 119 | 722909 | 9.221 | ppbv | | 97 |
| 70) | n-Butylbenzene | 12.277 | 91 | 771835 | 9.452 | ppbv | | 98 |
| 71) | 2-Chlorotoluene | 10.898 | 91 | 532755 | 9.623 | ppbv | | 96 |
| 72) | 4-Ethyltoluene | 11.121 | 105 | 554770 | 9.438 | ppbv | | 97 |
| 73) | 1,3,5-Trimethylbenzene | 11.199 | 105 | 481697 | 9.283 | ppbv | | 94 |
| 74) | 1,2,4-Trimethylbenzene | 11.532 | 105 | 537510 | 8.869 | ppbv | # | 89 |
| 75) | 1,3-Dichlorobenzene | 11.603 | 146 | 284652 | 9.035 | ppbv | | 98 |
| 76) | 1,4-Dichlorobenzene | 11.668 | 146 | 284740 | 8.992 | ppbv | | 98 |
| 77) | 1,2-Dichlorobenzene | 11.943 | 146 | 278619 | 9.095 | ppbv | | 98 |
| 78) | Hexachloro-1,3-Butadiene | 13.876 | 225 | 271569 | 8.779 | ppbv | | 99 |
| 79) | Naphthalene | 13.510 | 128 | 614768 | 8.482 | ppbv | | 100 |
| 80) | Naphthalene,2-methyl- | 14.455 | 142 | 316027 | 7.651 | ppbv | | 96 |
| 81) | 1,2,4-Trichlorobenzene | 13.435 | 180 | 271657 | 8.729 | ppbv | | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

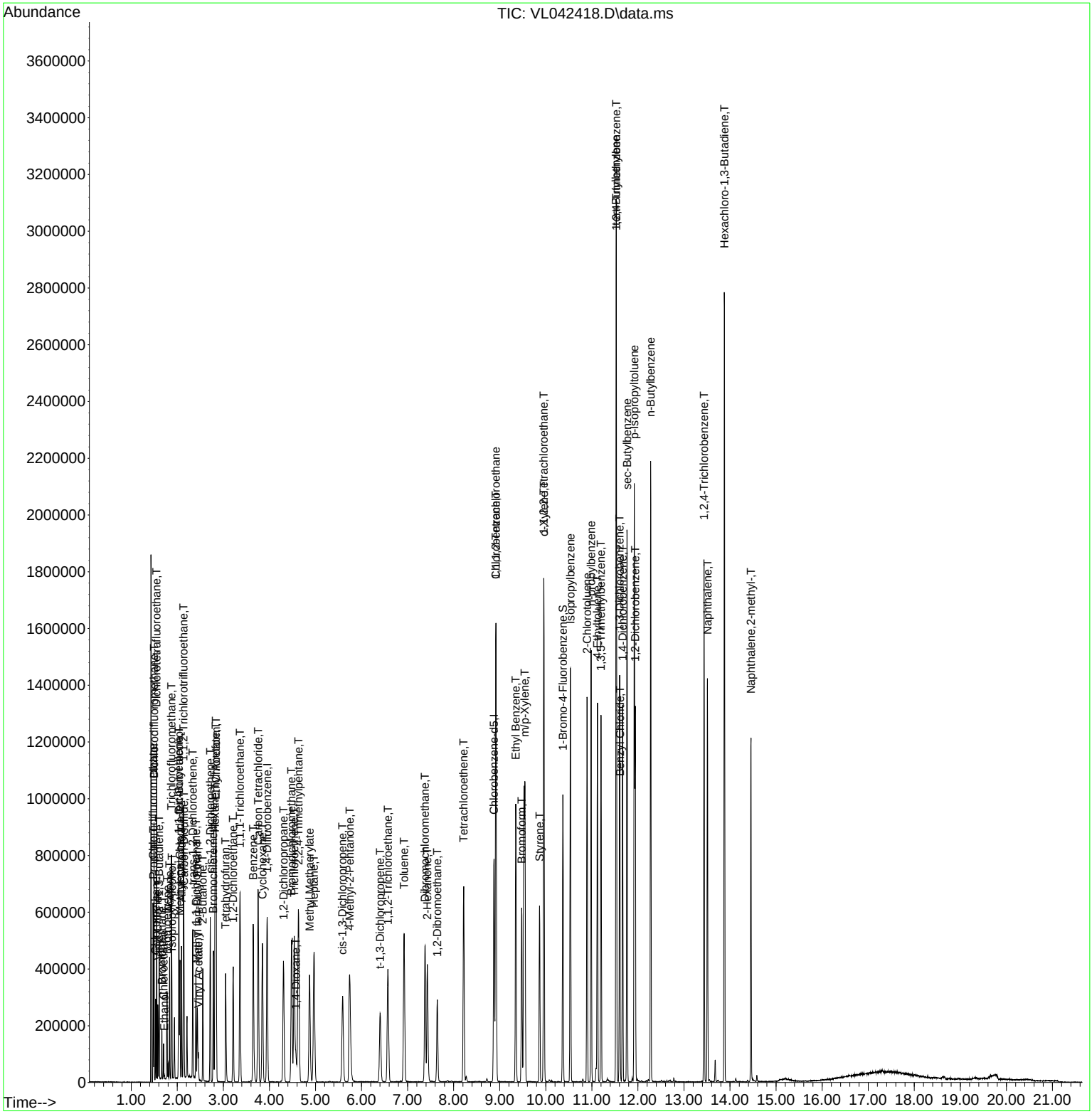
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042418.D
Acq On : 28 Apr 2025 10:10
Operator : SY/MD
Sample : VL0428ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

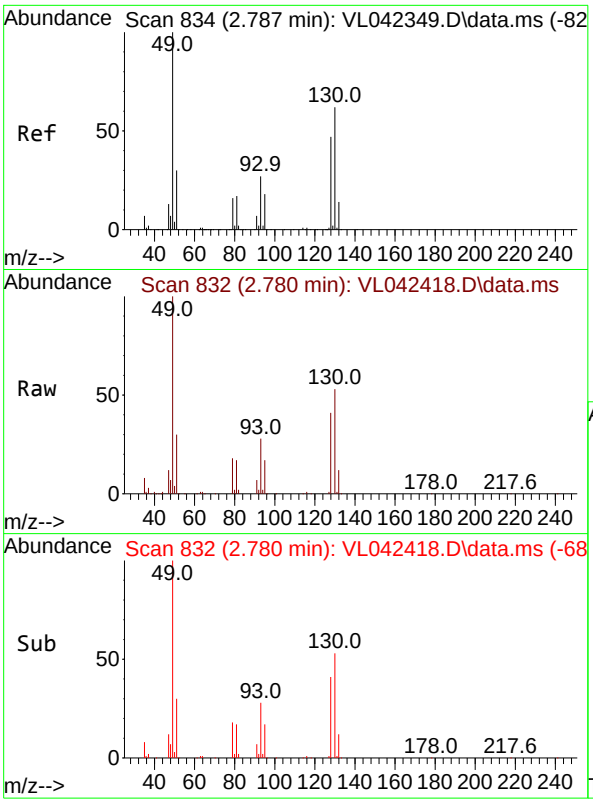
Quant Time: Apr 29 01:32:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025






#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.780 min Scan# 8
Delta R.T. -0.007 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

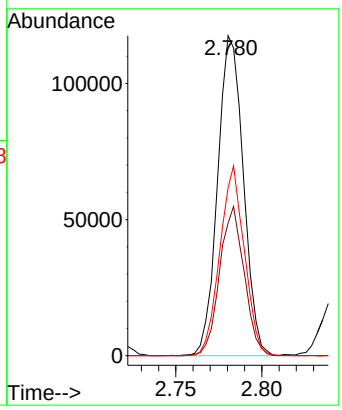
Tgt Ion: 49 Resp: 12244

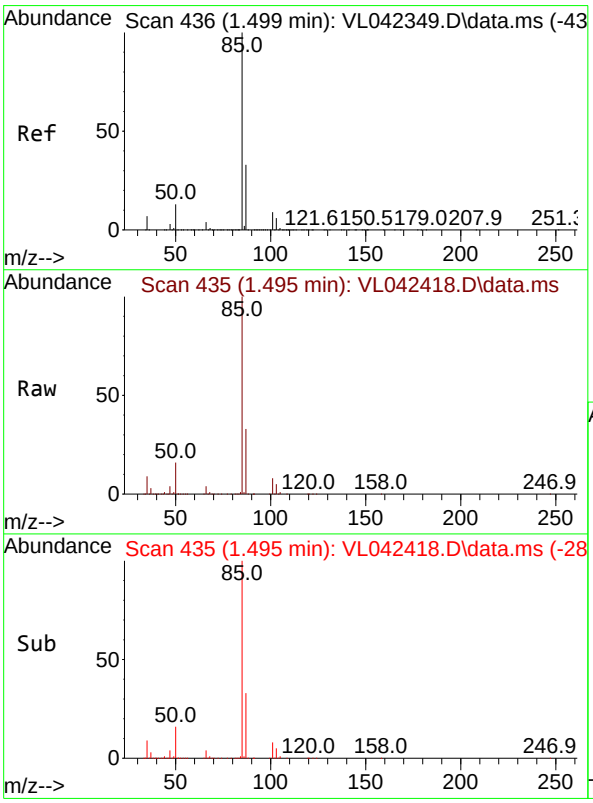
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 44.3 | 22.8 | 68.4 |
| 130 | 56.4 | 29.3 | 88.0 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

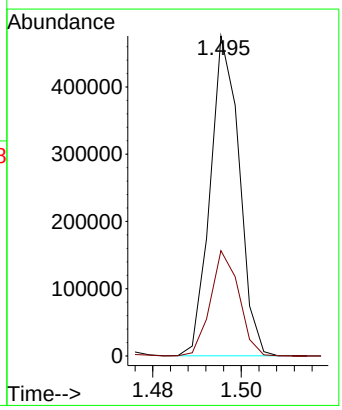


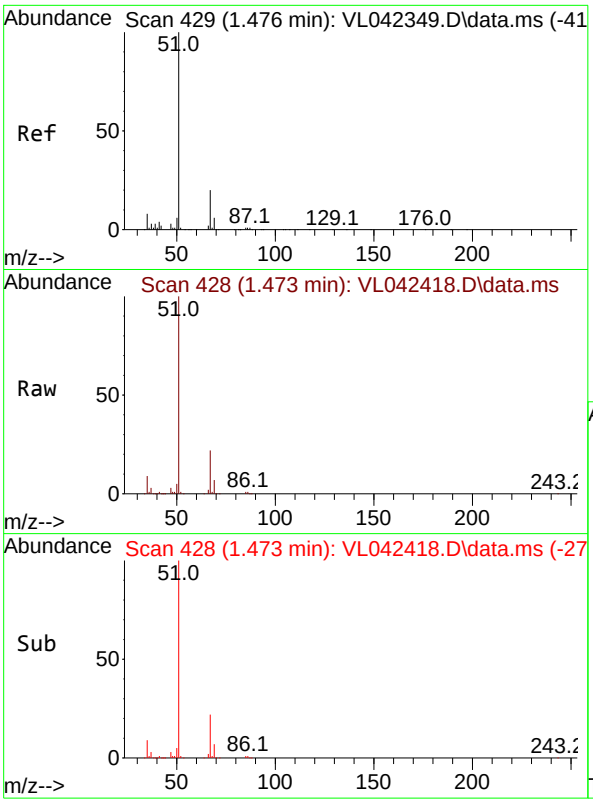




#2
Dichlorodifluoromethane
Concen: 10.025 ppbv
RT: 1.495 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 85 Resp: 216893

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.9 | 26.6 | 39.8 |

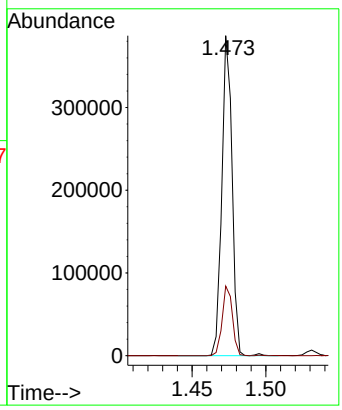





#3
Chlorodifluoromethane
Concen: 9.117 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 51 Resp: 18783

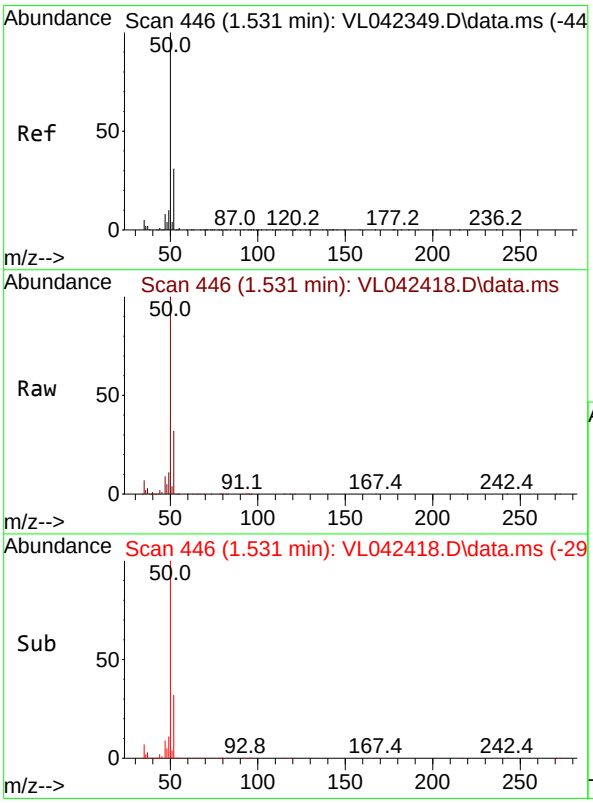
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 21.8 | 16.2 | 24.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

**Manual Integrations**
**APPROVED**

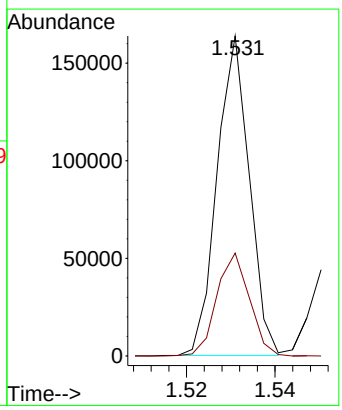
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

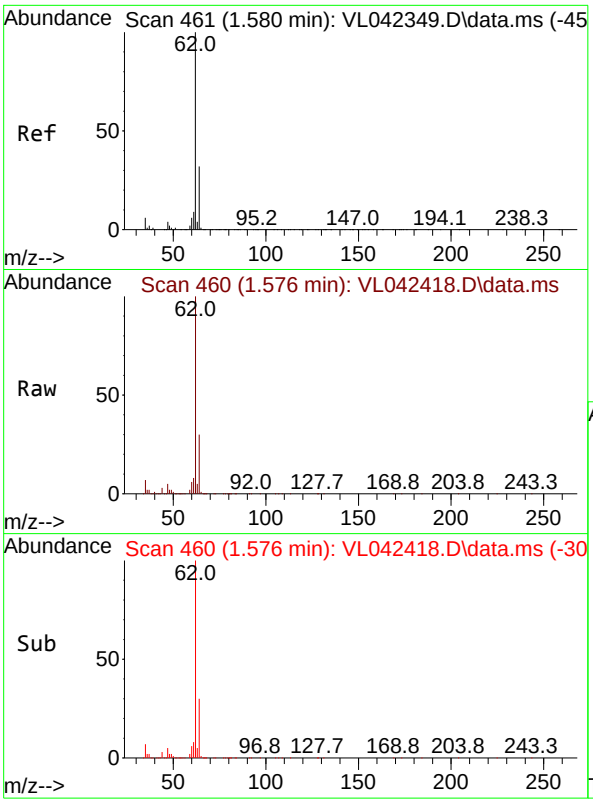



#4
Chloromethane
Concen: 9.692 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 50 Resp: 82976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.0 | 24.7 | 37.1 |

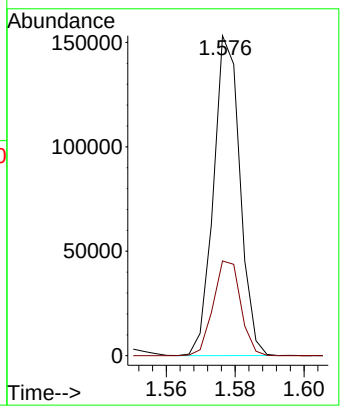





#5
Vinyl Chloride
Concen: 8.746 ppbv
RT: 1.576 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 62 Resp: 8150

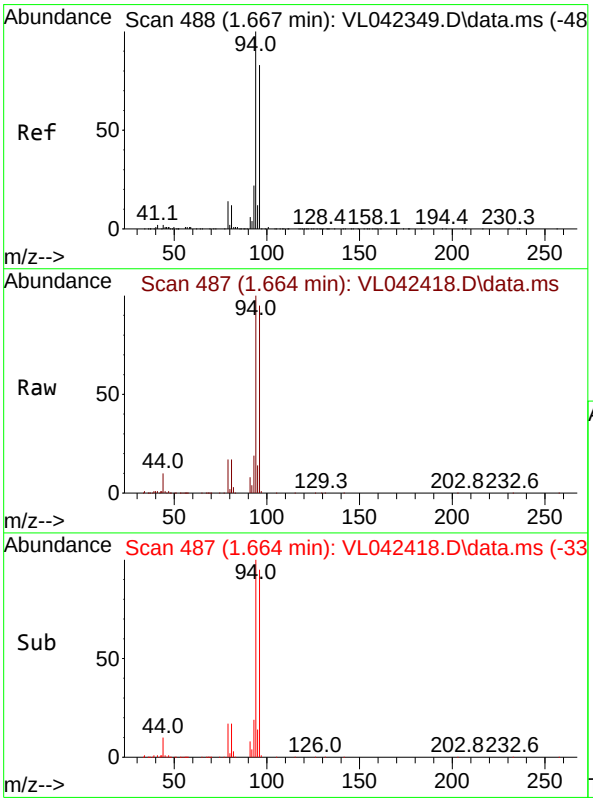
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 29.6 | 25.4 | 38.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

**Manual Integrations**
**APPROVED**

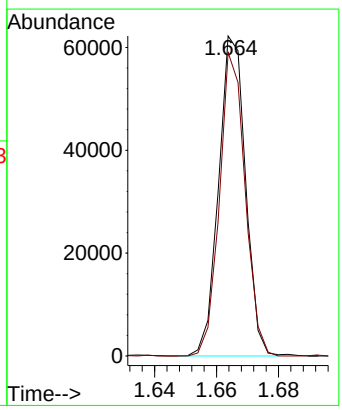
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

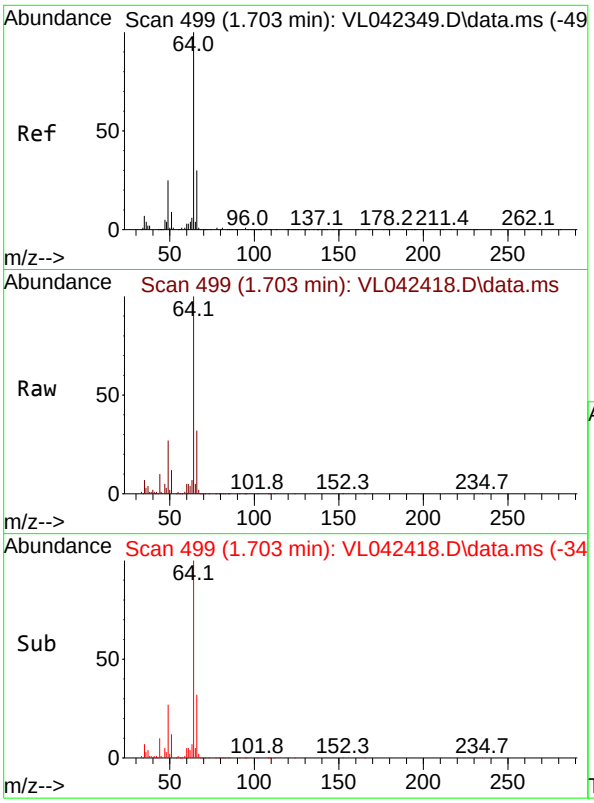



#6
Bromomethane
Concen: 9.379 ppbv
RT: 1.664 min Scan# 487
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 94 Resp: 37549

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 94.8 | 66.2 | 99.2 |

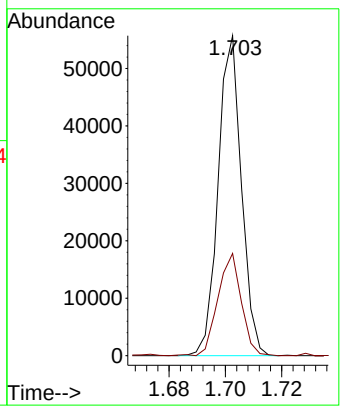





#7
Chloroethane
Concen: 9.472 ppbv
RT: 1.703 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 64 Resp: 3192

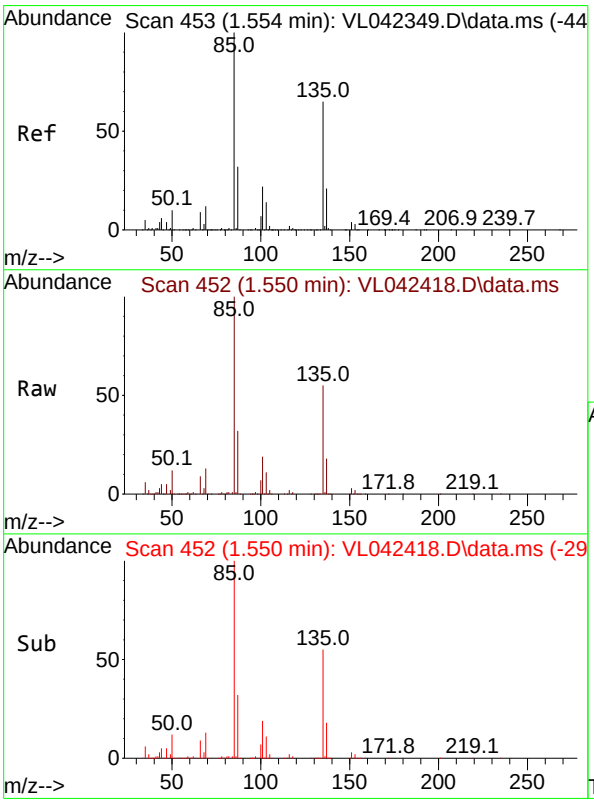
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 31.9 | 24.6 | 37.0 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

**Manual Integrations**
**APPROVED**

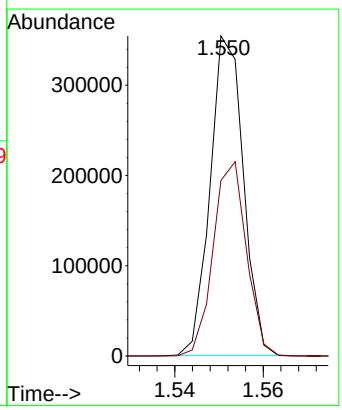
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

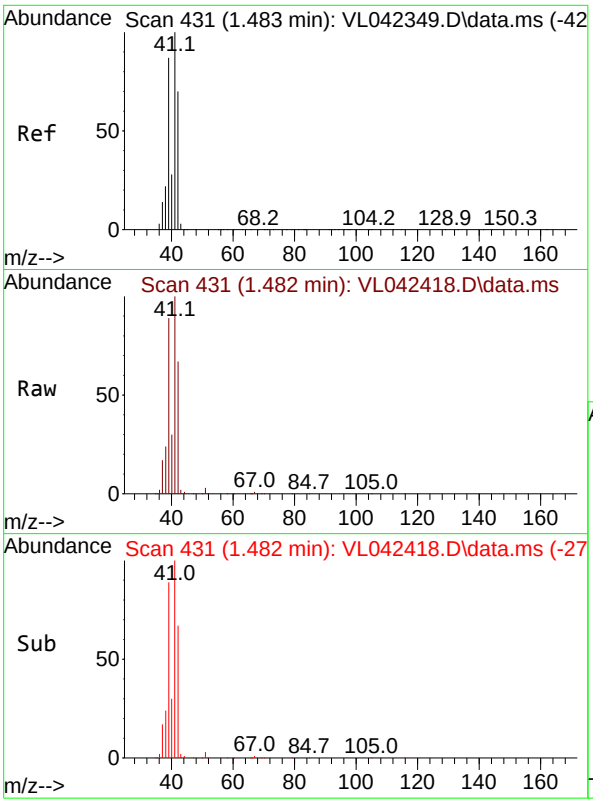



#8
Dichlorotetrafluoroethane
Concen: 9.952 ppbv
RT: 1.550 min Scan# 452
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 85 Resp: 184850

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 60.9 | 52.2 | 78.2 |

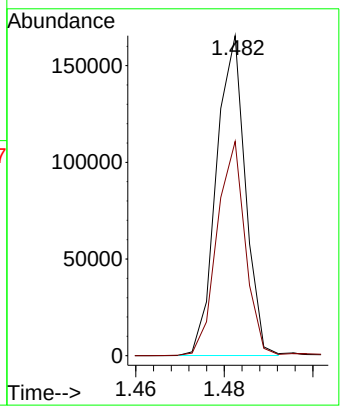





#9
Propene
Concen: 7.992 ppbv
RT: 1.482 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 41 Resp: 7498

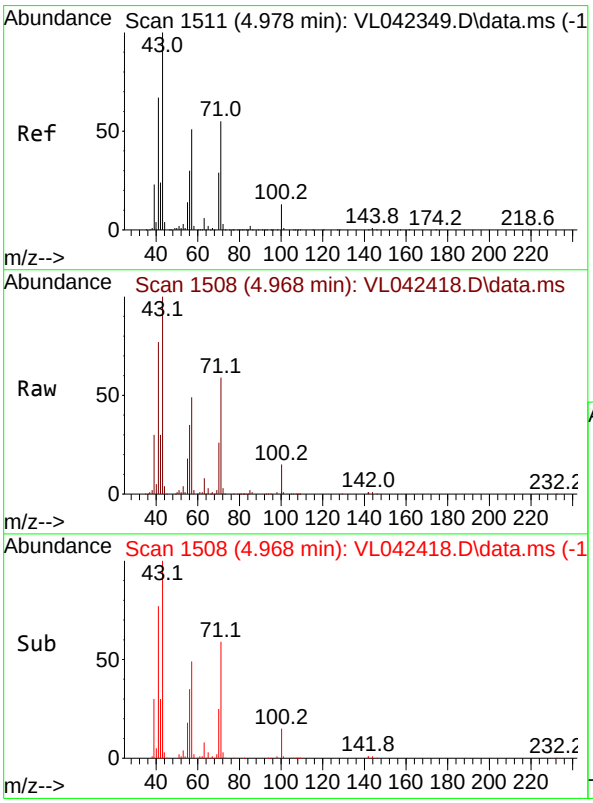
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 66.3 | 56.2 | 84.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

**Manual Integrations**
**APPROVED**

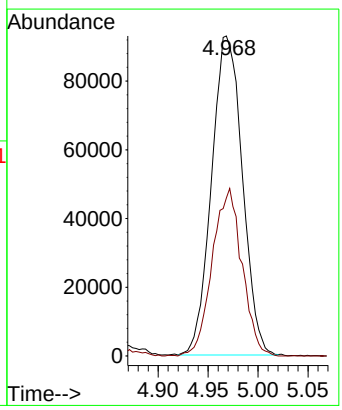
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

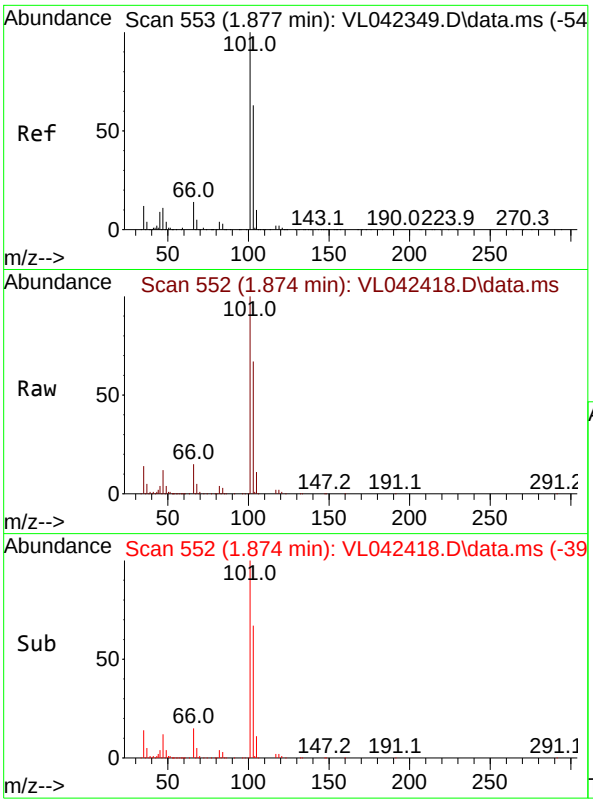



#10
Heptane
Concen: 7.565 ppbv
RT: 4.968 min Scan# 1508
Delta R.T. -0.010 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 43 Resp: 199403

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 50.6 | 39.9 | 59.9 |






#11
Trichlorofluoromethane
Concen: 10.004 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

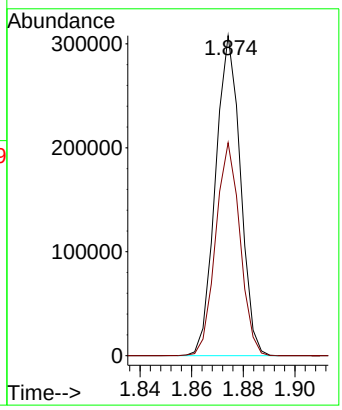
Tgt Ion:101 Resp: 20581

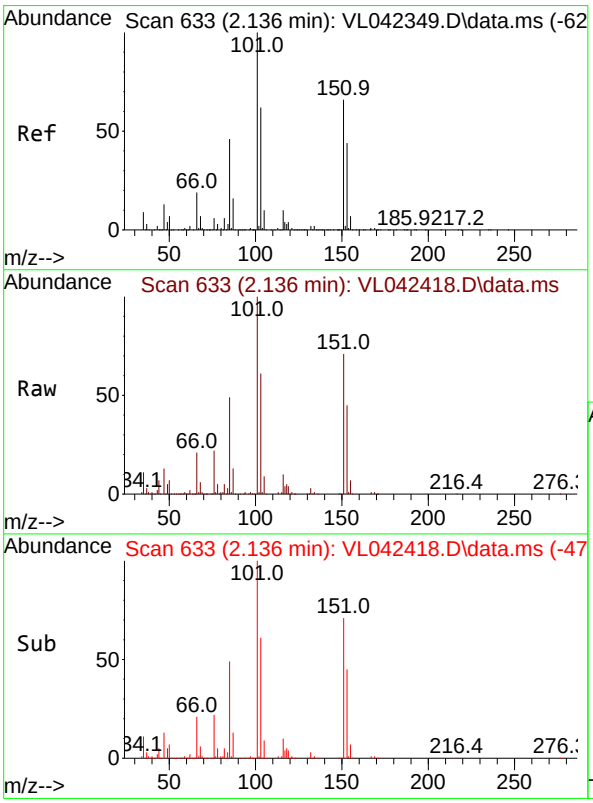
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 66.5 | 50.1 | 75.1 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

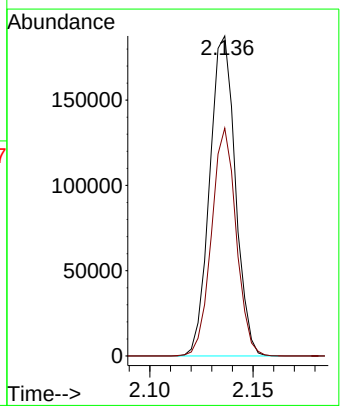


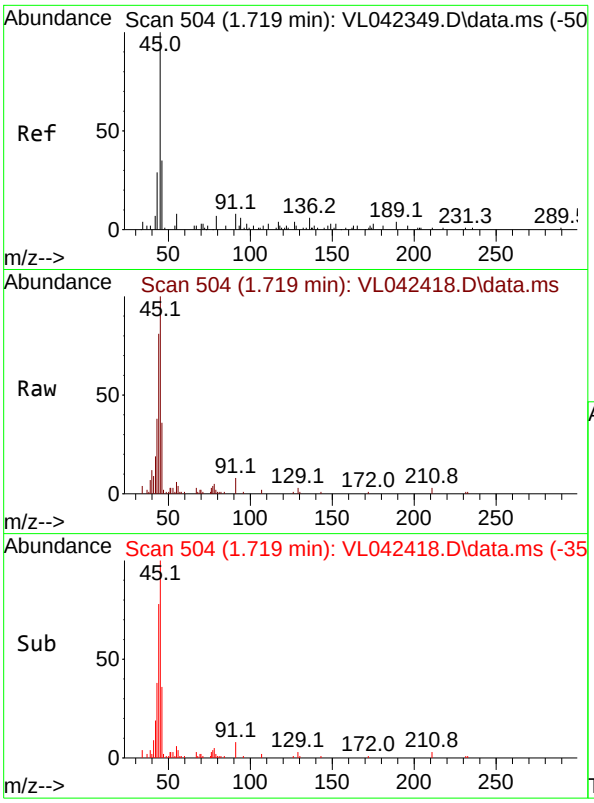




#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.619 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion:101 Resp: 161799

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 68.5 | 57.0 | 85.6 |

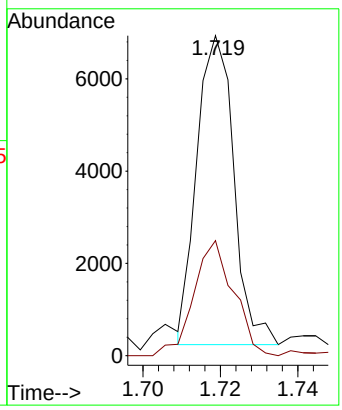





#13
Ethanol
Concen: 2.977 ppbv
RT: 1.719 min Scan# 5(
Delta R.T. -0.000 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 45 Resp: 443

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 41.4 | 21.9 | 87.7 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

**Manual Integrations**
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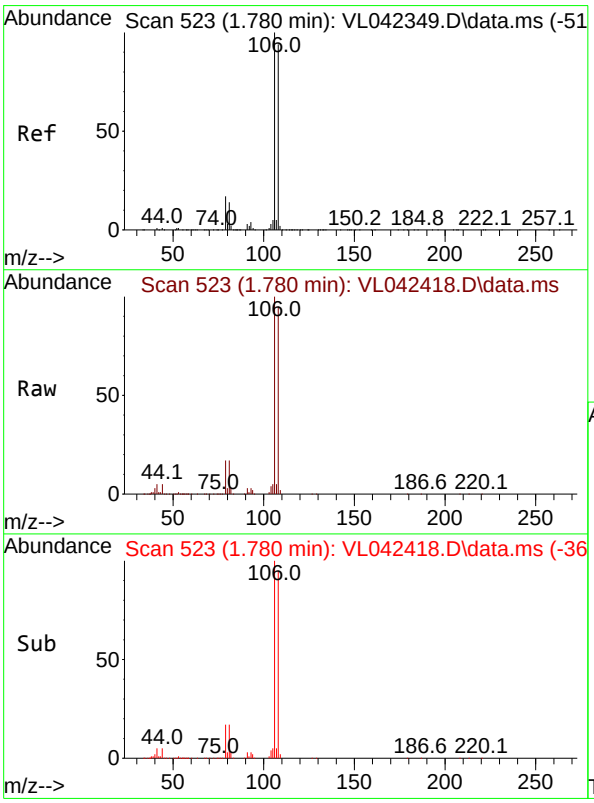
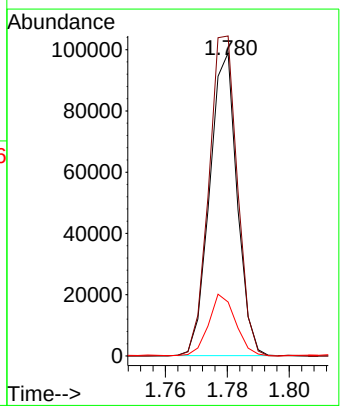
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

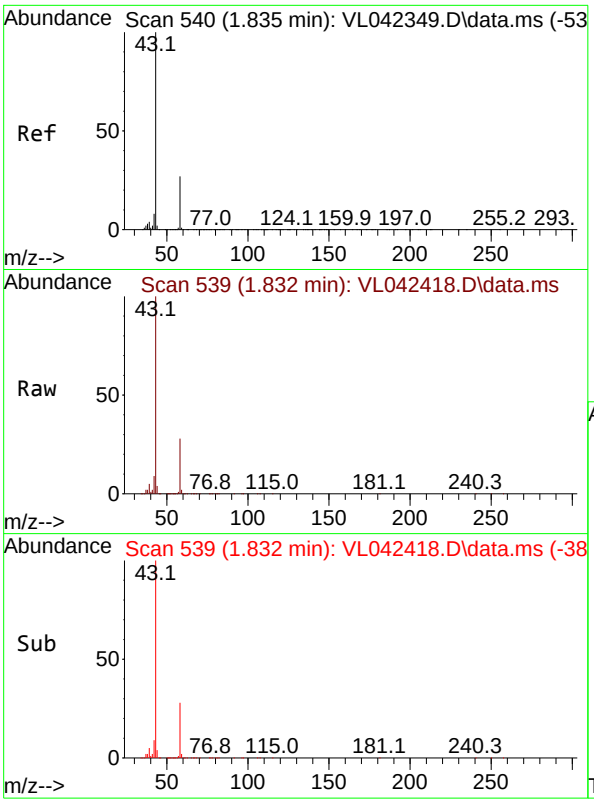



#14
Bromoethene
Concen: 9.581 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion:108 Resp: 60748

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 106 | 110.0 | 85.9 | 128.9 |
| 79 | 20.2 | 13.9 | 20.9 |

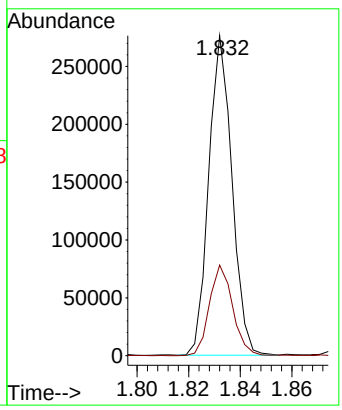





#15
Acetone
Concen: 8.613 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 43 Resp: 17265

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 28.8 | 22.4 | 33.6 |

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**Manual Integrations**
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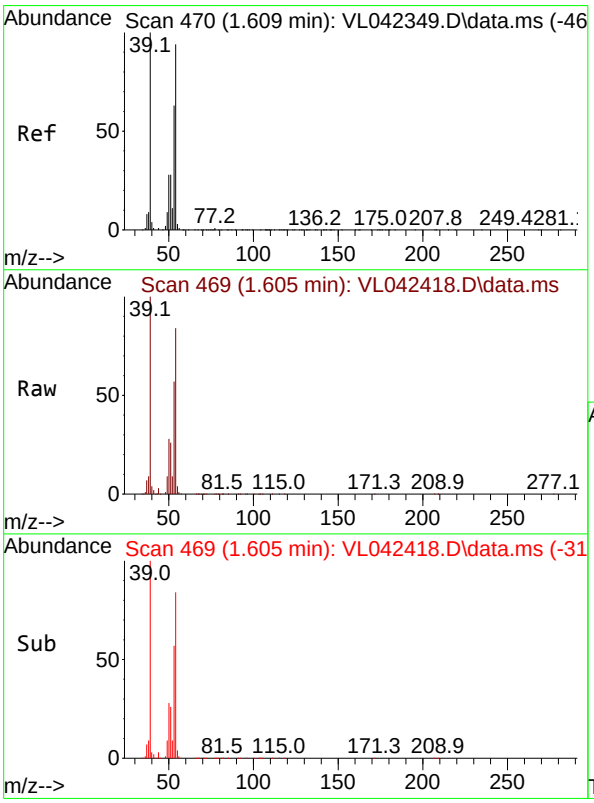
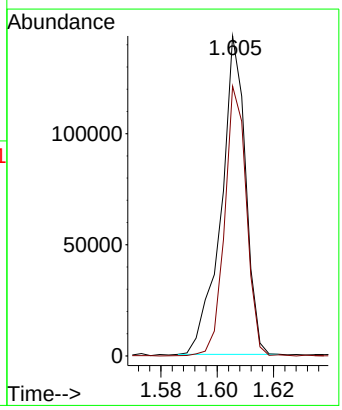
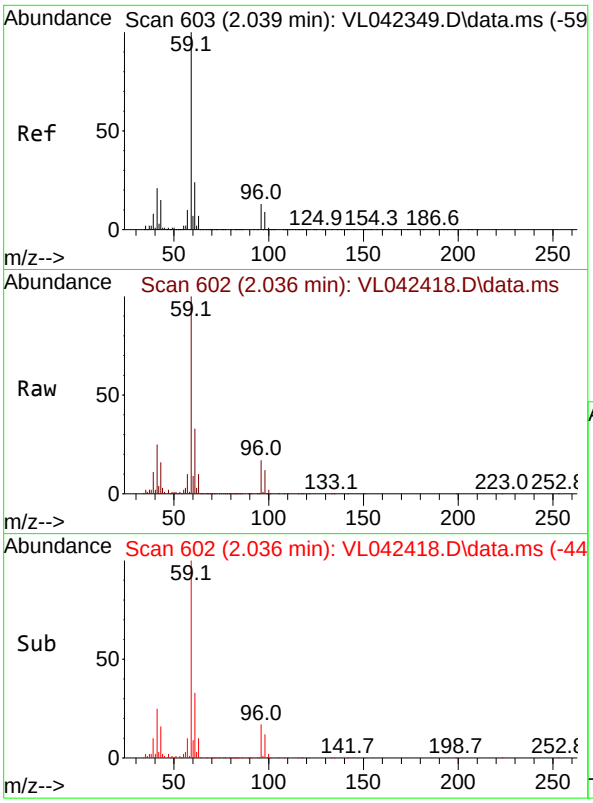



#16
1,3-Butadiene
Concen: 9.028 ppbv
RT: 1.605 min Scan# 469
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 39 Resp: 86553

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 75.3 | 64.9 | 97.3 |

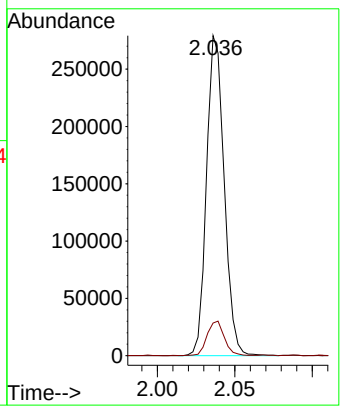





#17
tert-Butyl alcohol
Concen: 8.899 ppbv
RT: 2.036 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 59 Resp: 22106

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.8 | 8.7 | 13.1 |




**Instrument :**
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**Manual Integrations**
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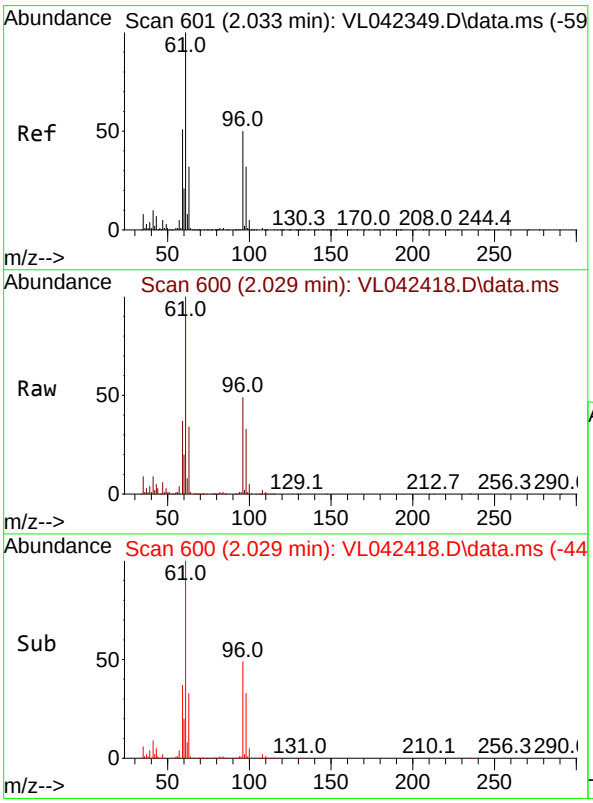
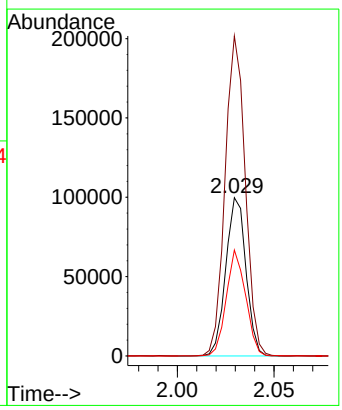
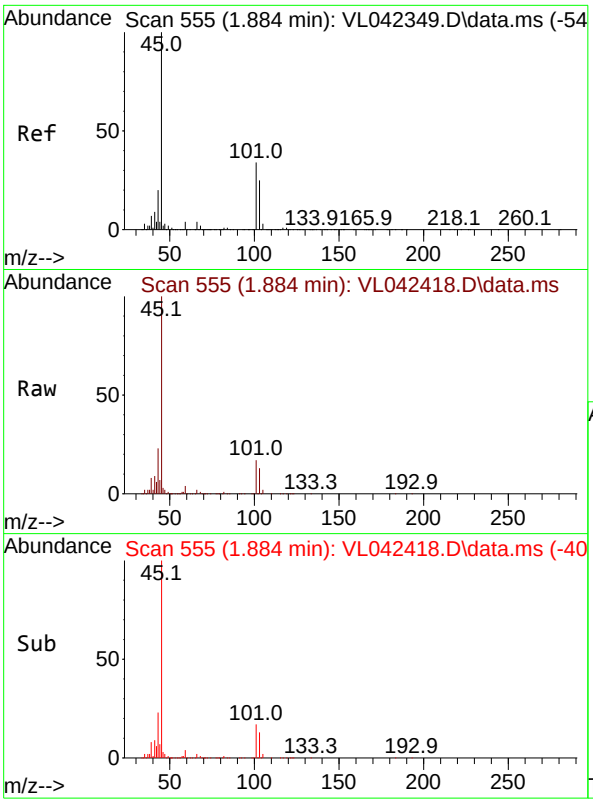



#18
1,1-Dichloroethene
Concen: 9.225 ppbv
RT: 2.029 min Scan# 600
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 96 Resp: 72496

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 202.1 | 160.2 | 240.2 |
| 98 | 66.9 | 51.0 | 76.4 |

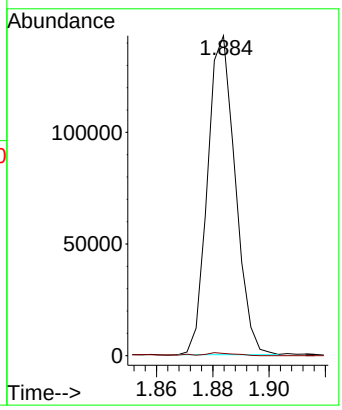





#19
Isopropyl Alcohol
Concen: 8.758 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 45 Resp: 9752

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 51.0 | 34.5 | 51.7 |




**Instrument :**
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**ClientSampleId :**
VL0428ABS01

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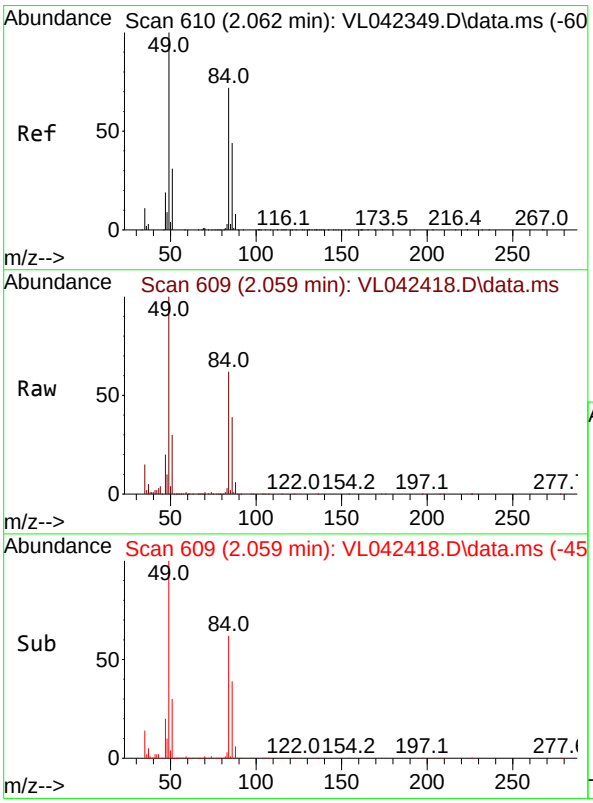
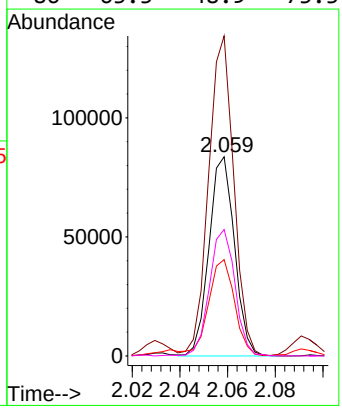
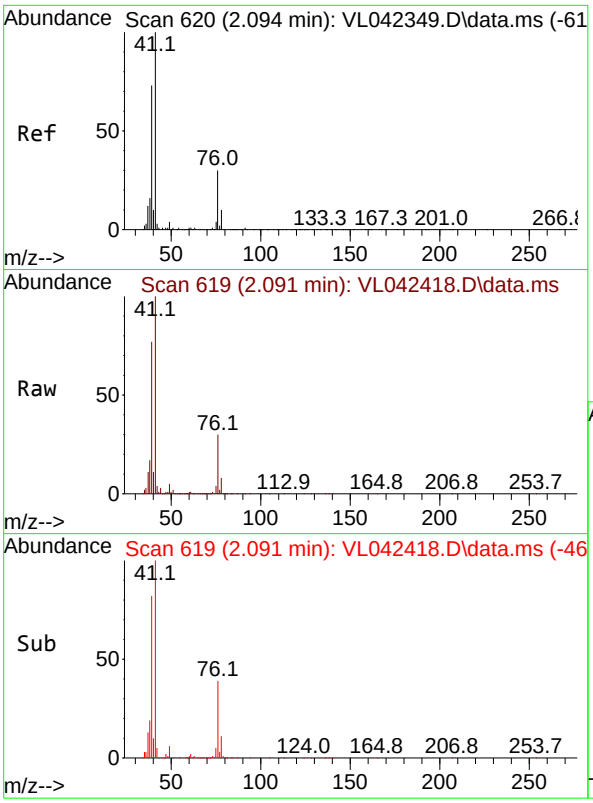



#20
Methylene Chloride
Concen: 7.920 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 84 Resp: 62175

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 159.9 | 111.6 | 167.4 |
| 51 | 47.8 | 35.1 | 52.7 |
| 86 | 63.3 | 48.9 | 73.3 |

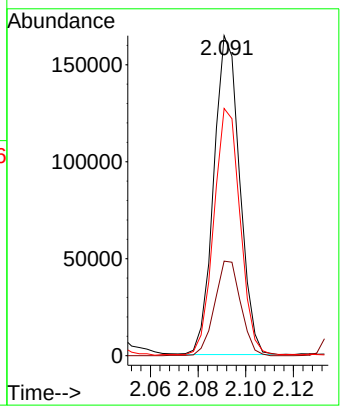





#21
Allyl Chloride
Concen: 8.964 ppbv
RT: 2.091 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 41 Resp: 12405

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 29.9 | 24.8 | 37.2 |
| 39 | 78.6 | 60.6 | 90.8 |




**Instrument :**
MSVOA_L
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VL0428ABS01

**Manual Integrations**
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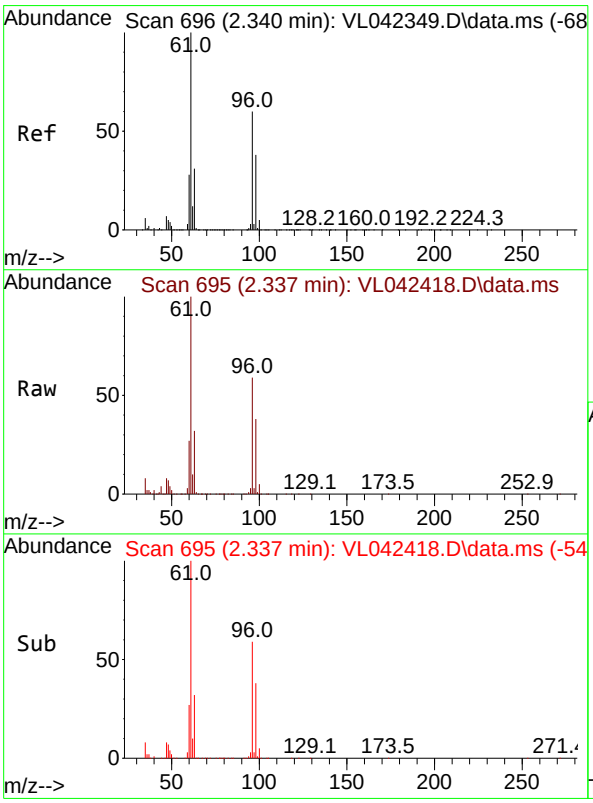
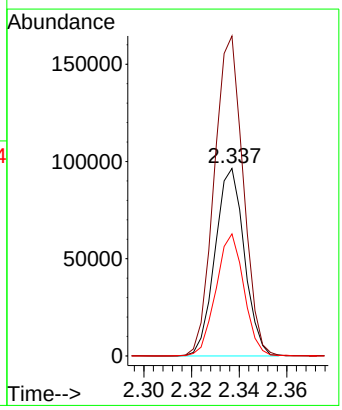
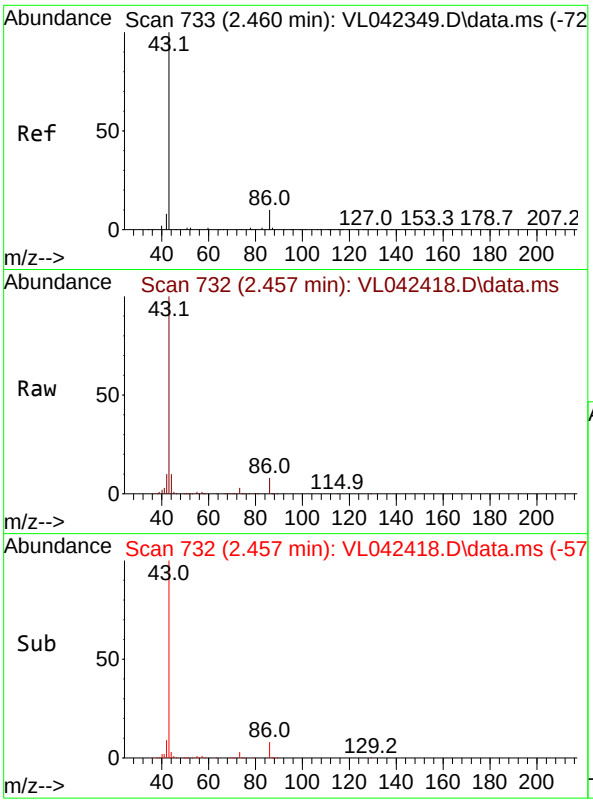



#22
trans-1,2-Dichloroethene
Concen: 9.184 ppbv
RT: 2.337 min Scan# 695
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 96 Resp: 82175

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 170.5 | 133.7 | 200.5 |
| 98 | 65.0 | 50.3 | 75.5 |

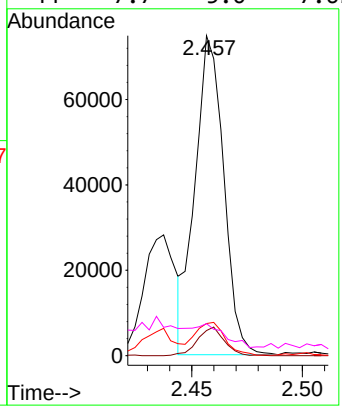





#23
Vinyl Acetate
Concen: 8.283 ppbv
RT: 2.457 min Scan# 7
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 43 Resp: 6720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 7.9 | 6.5 | 9.7 |
| 42 | 9.8 | 7.8 | 11.8 |
| 44 | 7.7 | 5.0 | 7.6# |




**Instrument :**
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VL0428ABS01

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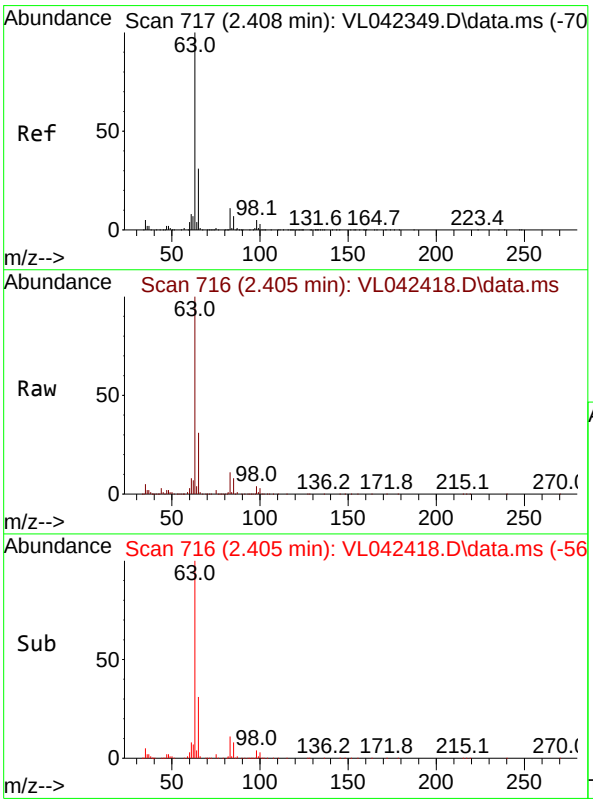
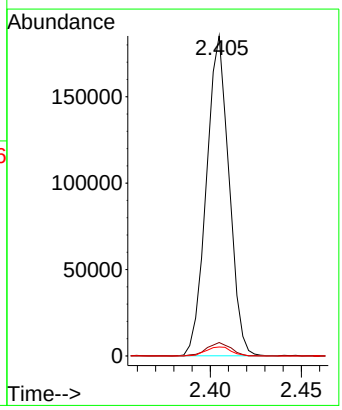
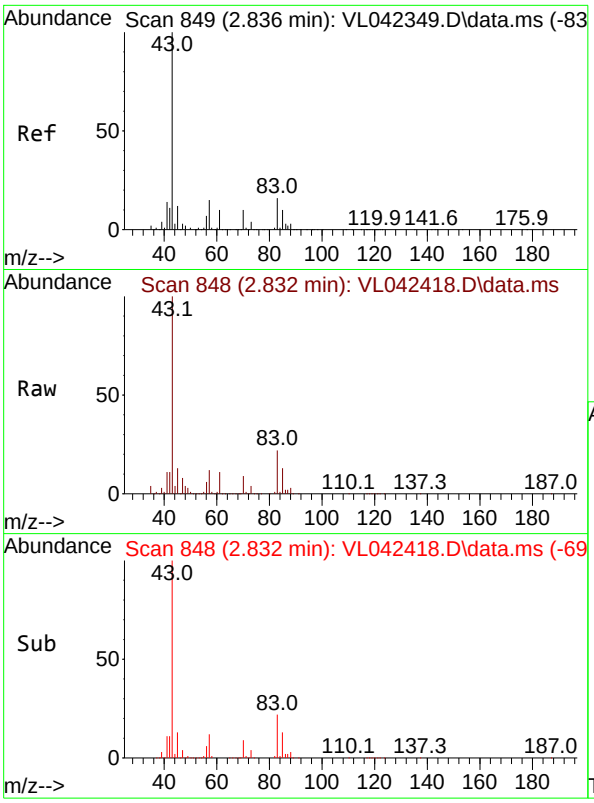



#24
1,1-Dichloroethane
Concen: 9.393 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 63 Resp: 159644

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 4.2 | 2.3 | 6.8 |
| 100 | 2.8 | 1.6 | 4.8 |

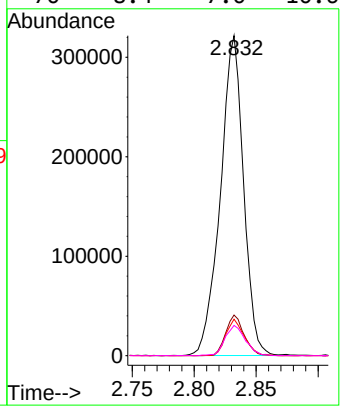





#25
Ethyl Acetate
Concen: 8.485 ppbv
RT: 2.832 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 43 Resp: 41937

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 10.2 | 8.3 | 12.5 |
| 61 | 9.1 | 7.3 | 10.9 |
| 70 | 8.4 | 7.0 | 10.6 |

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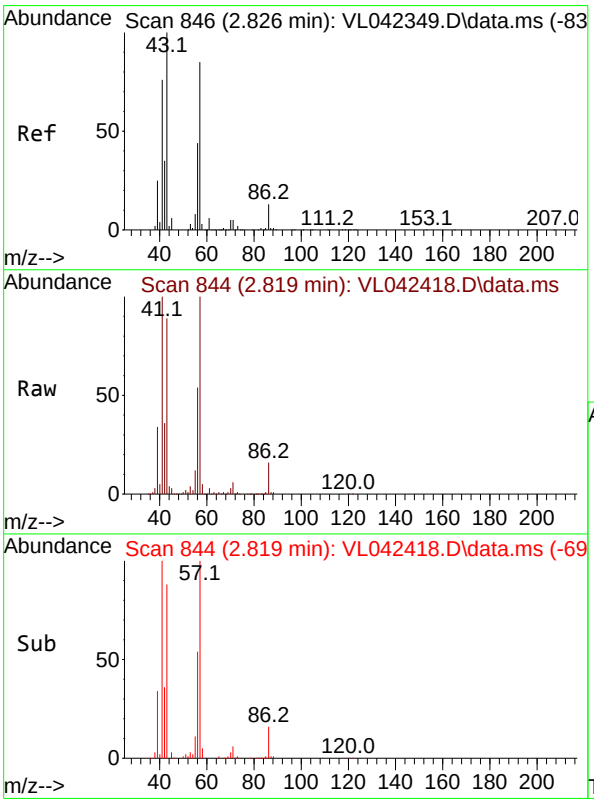
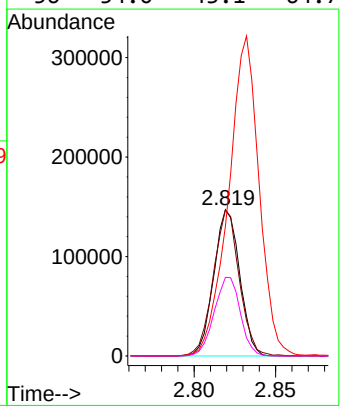
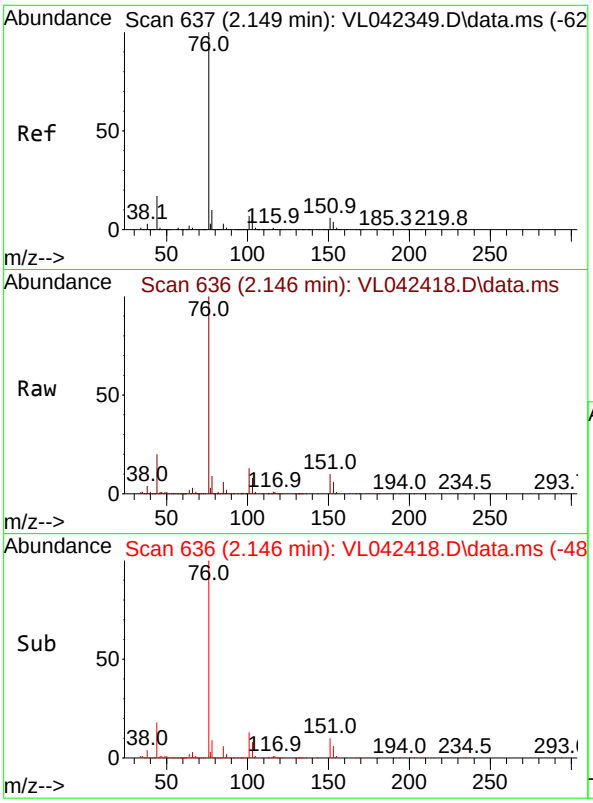



#26
Hexane
Concen: 8.112 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.007 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 57 Resp: 162255

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 100.5 | 77.9 | 116.9 |
| 43 | 258.8 | 208.4 | 312.6 |
| 56 | 54.0 | 43.1 | 64.7 |

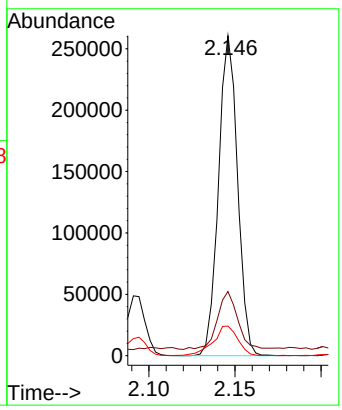





#27
Carbon Disulfide
Concen: 9.377 ppbv
RT: 2.146 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 76 Resp: 20080

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 21.3 | 15.5 | 23.3 |
| 78 | 12.0 | 9.3 | 13.9 |

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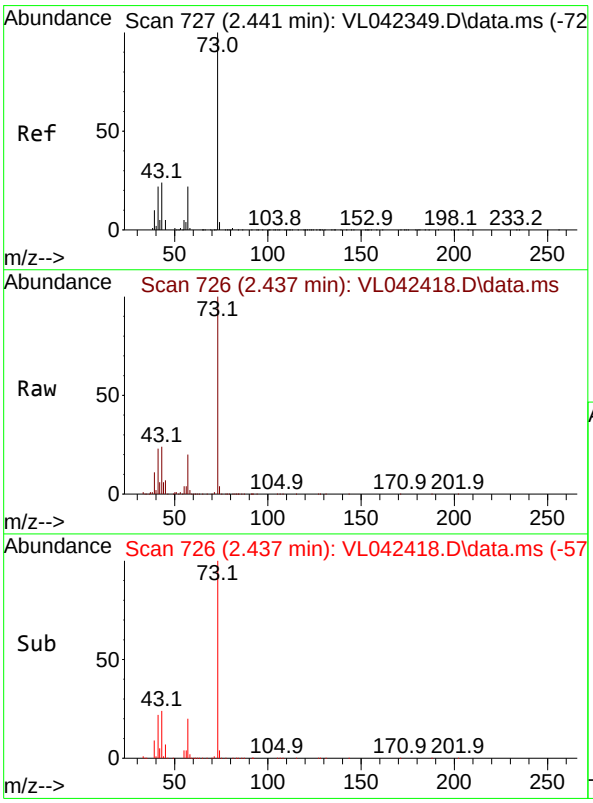
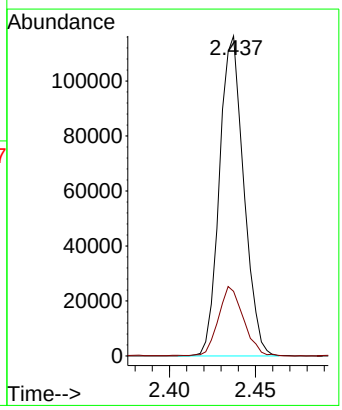
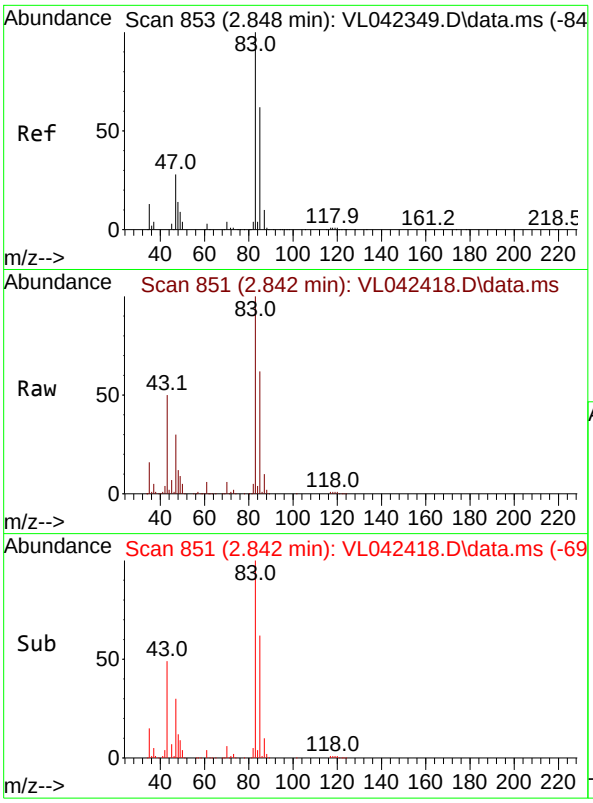



#28
Methyl tert-Butyl Ether
Concen: 8.718 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 73 Resp: 114239

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.6 | 21.3 | 31.9 |






#29
Chloroform
Concen: 9.751 ppbv
RT: 2.842 min Scan# 8
Delta R.T. -0.007 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 83 Resp: 27565

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.3 | 50.0 | 75.0 |

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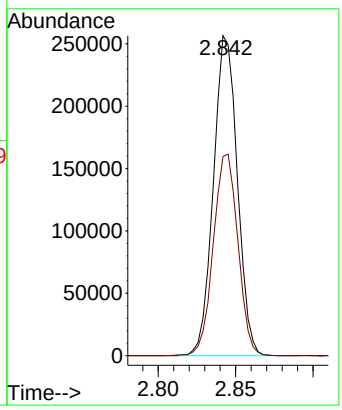
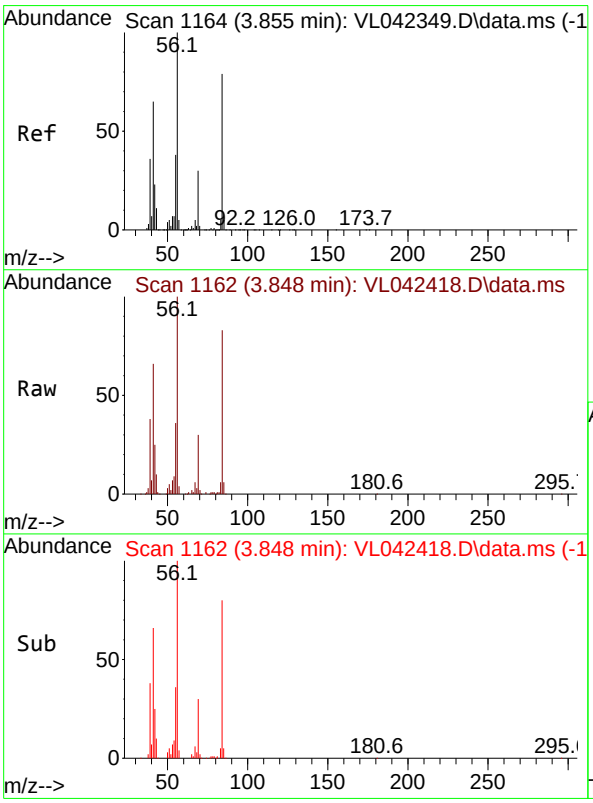
Supervised By :Mahesh Dadoda 04/30/2025

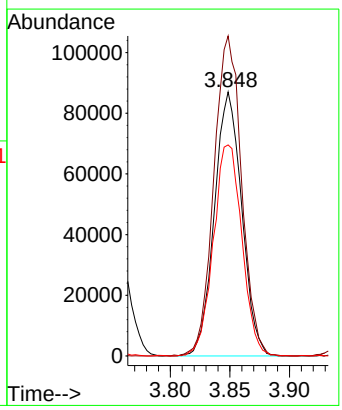


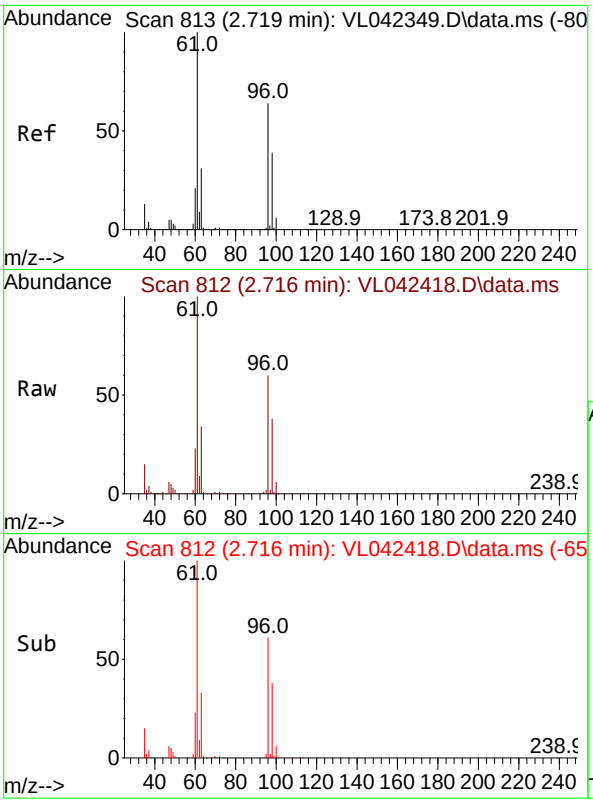




#30
Cyclohexane
Concen: 8.583 ppbv
RT: 3.848 min Scan# 1162
Delta R.T. -0.007 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 84 Resp: 138766

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 122.9 | 101.0 | 151.4 |
| 41 | 83.5 | 67.4 | 101.0 |

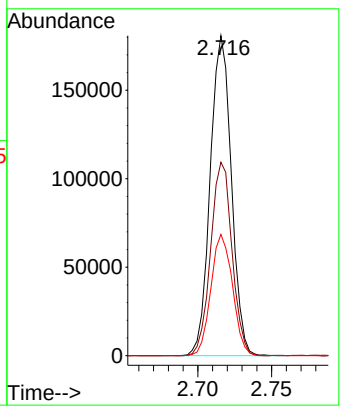





#31
cis-1,2-Dichloroethene
Concen: 9.464 ppbv
RT: 2.716 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 61 Resp: 17996

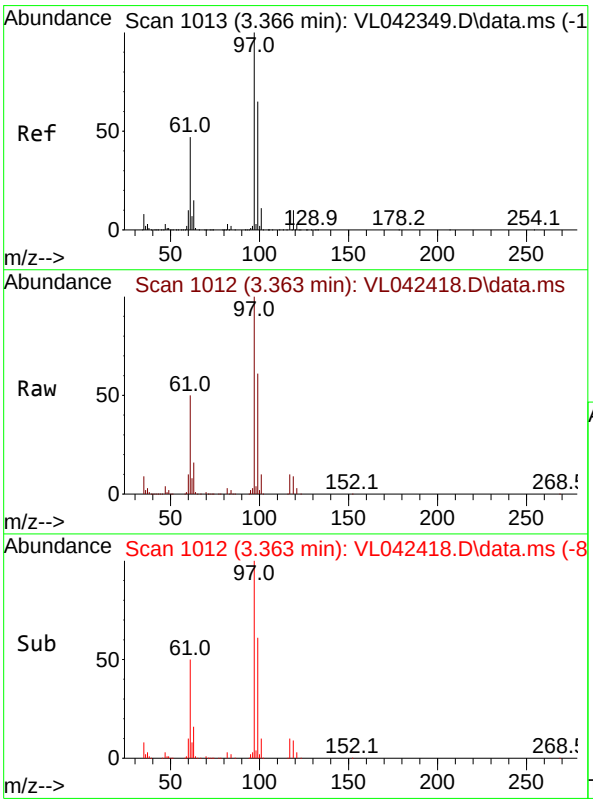
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 60.5 | 50.8 | 76.2 |
| 98 | 37.9 | 30.9 | 46.3 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

**Manual Integrations**
**APPROVED**

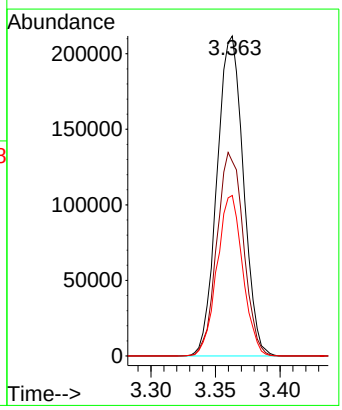
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

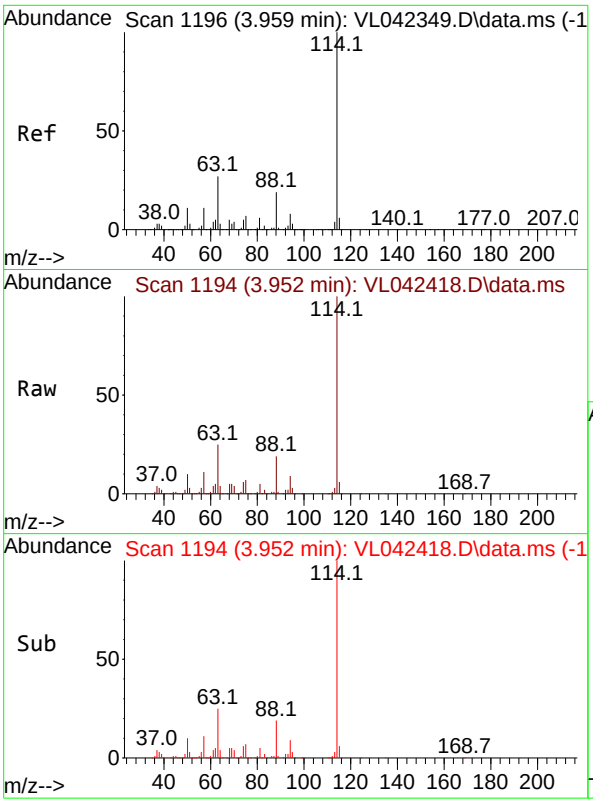



#32
1,1,1-Trichloroethane
Concen: 9.469 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 97 Resp: 301358

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.9 | 51.0 | 76.4 |
| 61 | 48.9 | 38.8 | 58.2 |






#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1
Delta R.T. -0.007 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion:114 Resp: 33720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 27.4 | 21.8 | 32.6 |
| 88 | 19.2 | 15.5 | 23.3 |

**Instrument :**
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VL0428ABS01

**Manual Integrations**
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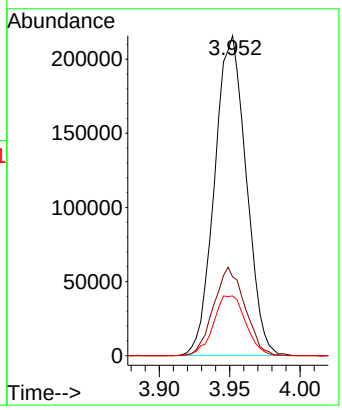
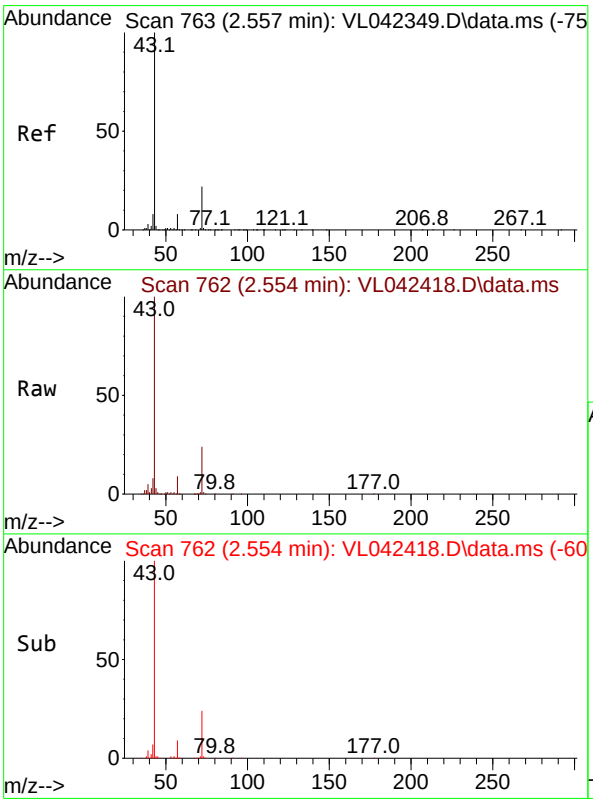
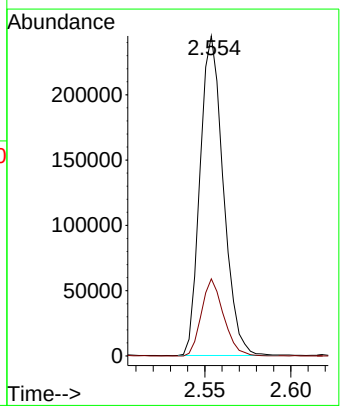


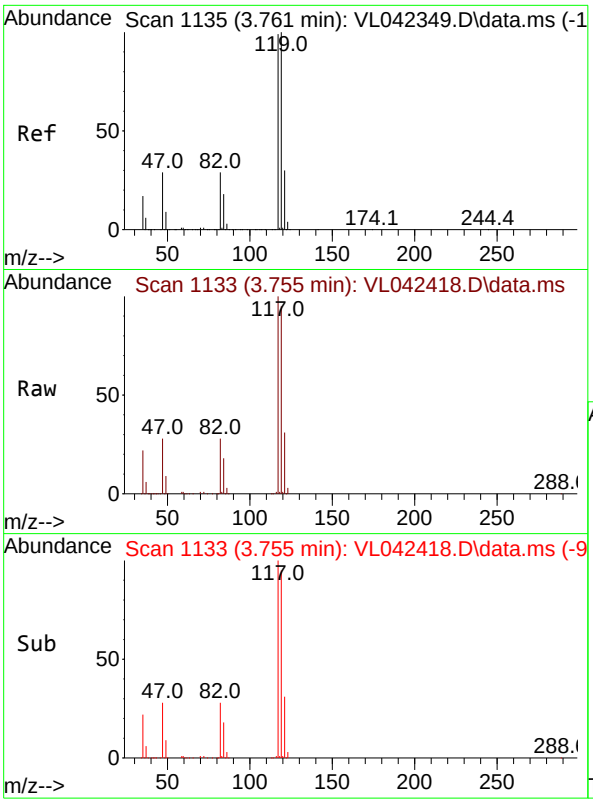




#34
2-Butanone
Concen: 8.628 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 43 Resp: 230104

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 23.0 | 18.2 | 27.2 |

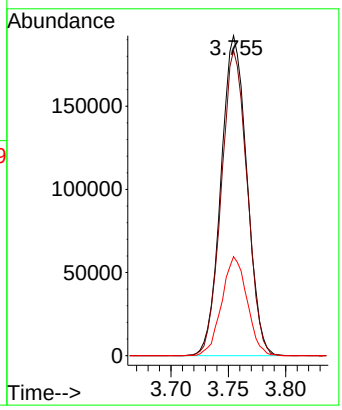





#35
Carbon Tetrachloride
Concen: 9.906 ppbv
RT: 3.755 min Scan# 1
Delta R.T. -0.007 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion:117 Resp: 30229

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 95.4 | 80.5 | 120.7 |
| 121 | 30.9 | 24.2 | 36.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

**Manual Integrations**
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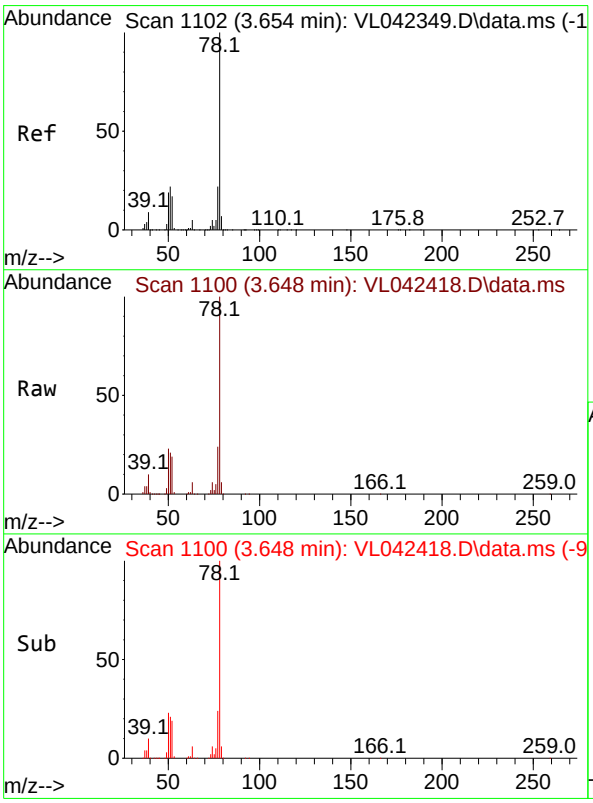
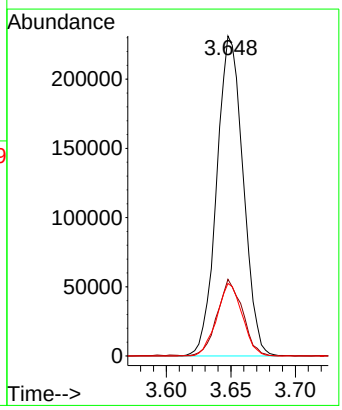
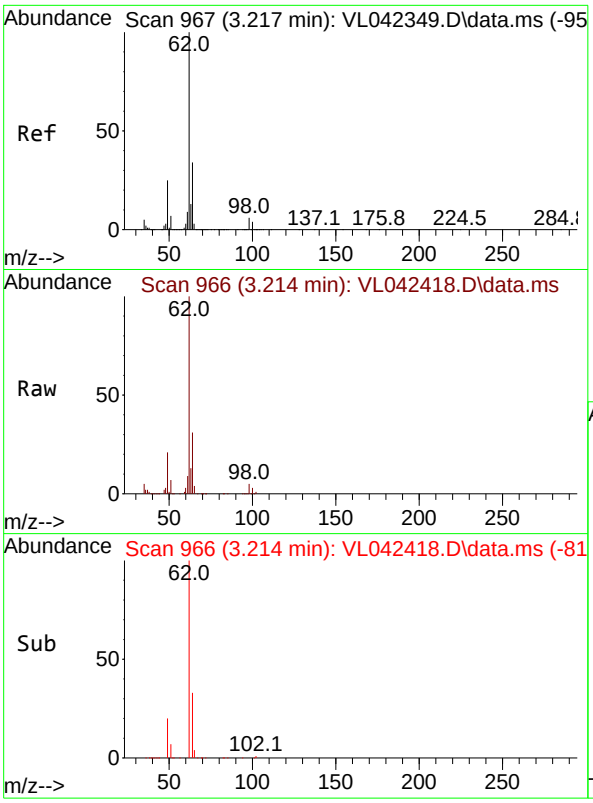



#36
Benzene
Concen: 9.049 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. -0.007 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 78 Resp: 329117

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.8 | 17.4 | 26.0 |
| 50 | 22.7 | 15.5 | 23.3 |

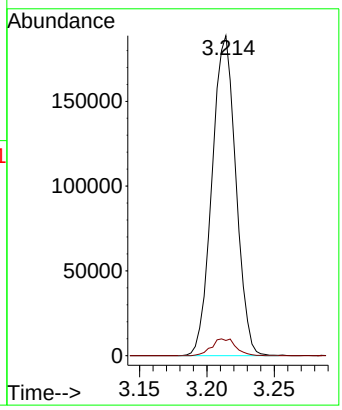





#37
1,2-Dichloroethane
Concen: 10.641 ppbv
RT: 3.214 min Scan# 9
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 62 Resp: 23227

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 5.4 | 5.1 | 7.7 |




**Instrument :**
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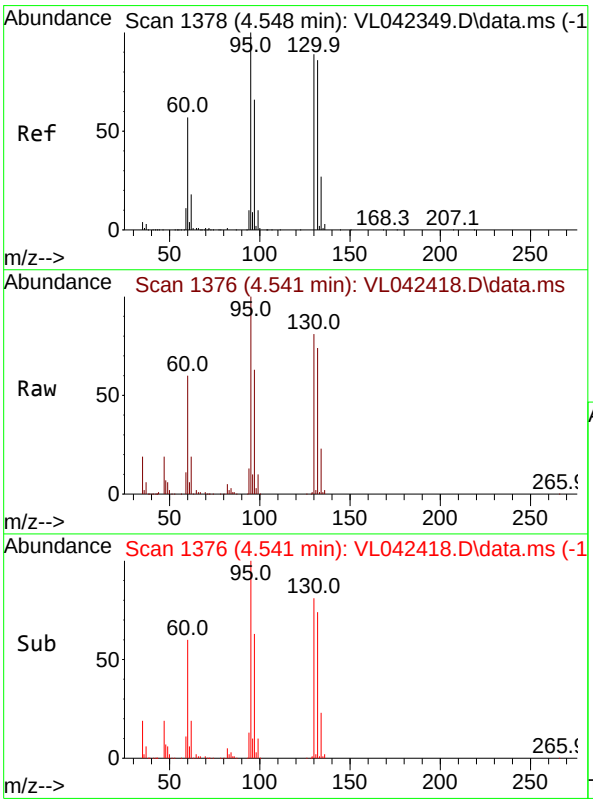
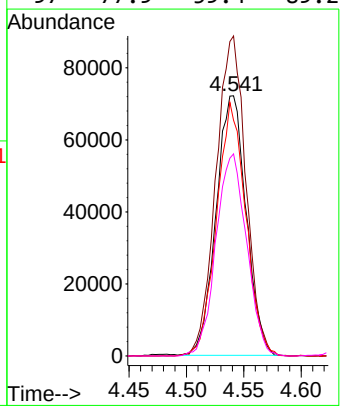
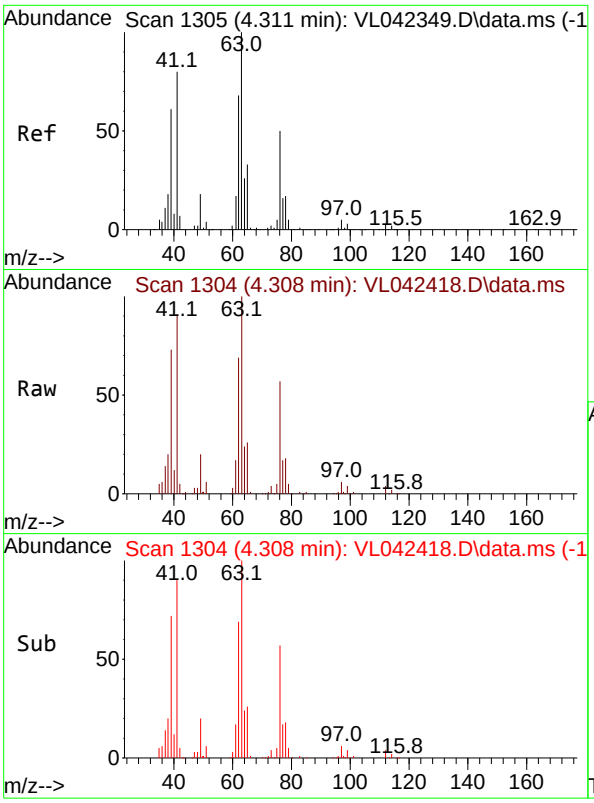



#38
Trichloroethene
Concen: 8.252 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. -0.007 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion:130 Resp: 131178

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 123.1 | 89.8 | 134.6 |
| 132 | 90.7 | 77.7 | 116.5 |
| 97 | 77.9 | 59.4 | 89.2 |

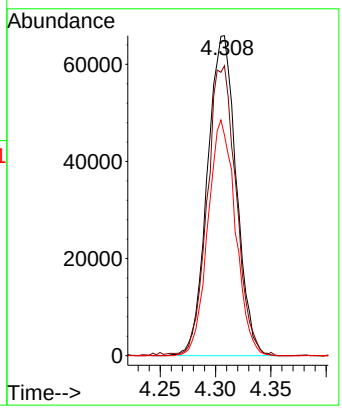





#39
1,2-Dichloropropane
Concen: 8.831 ppbv
RT: 4.308 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 63 Resp: 11969

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 90.6 | 64.2 | 96.2 |
| 62 | 69.0 | 54.3 | 81.5 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

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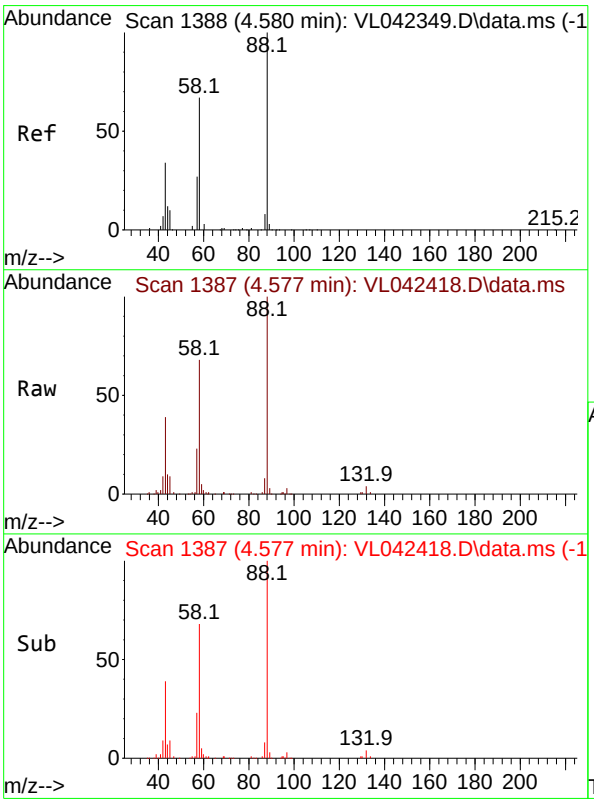
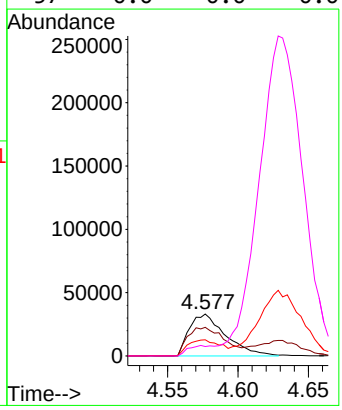
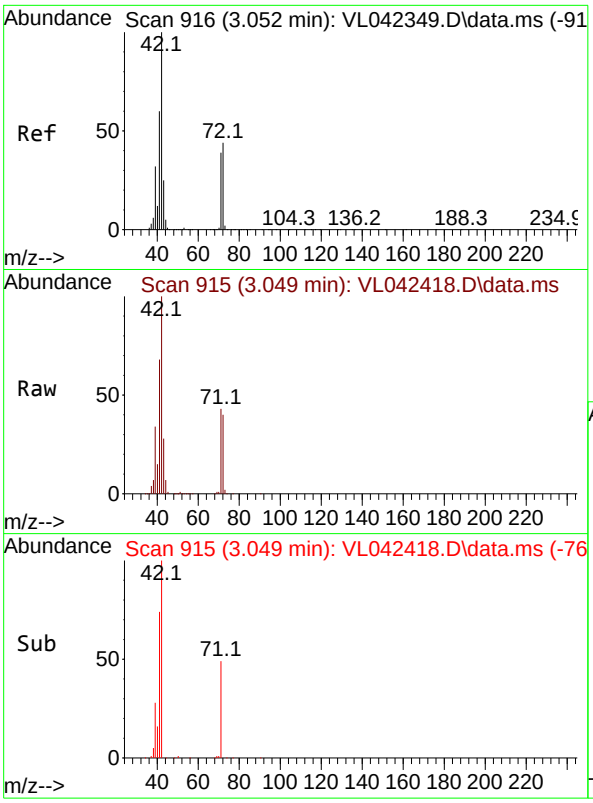



#40
1,4-Dioxane
Concen: 8.010 ppbv
RT: 4.577 min Scan# 1387
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 88 Resp: 59666

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 71.2 | 61.4 | 92.0 |
| 43 | 37.7 | 23.2 | 34.8# |
| 57 | 0.0 | 0.0 | 0.0 |






#41
Tetrahydrofuran
Concen: 8.428 ppbv
RT: 3.049 min Scan# 9
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 42 Resp: 13104

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 41.4 | 32.3 | 48.5 |
| 71 | 38.3 | 31.4 | 47.2 |

**Instrument :**
MSVOA_L
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VL0428ABS01

**Manual Integrations**
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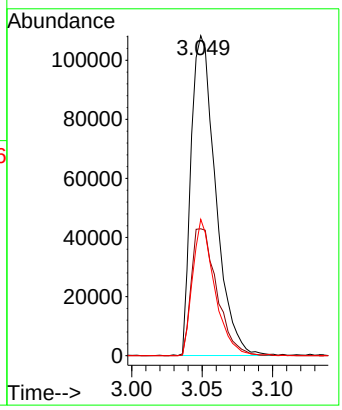
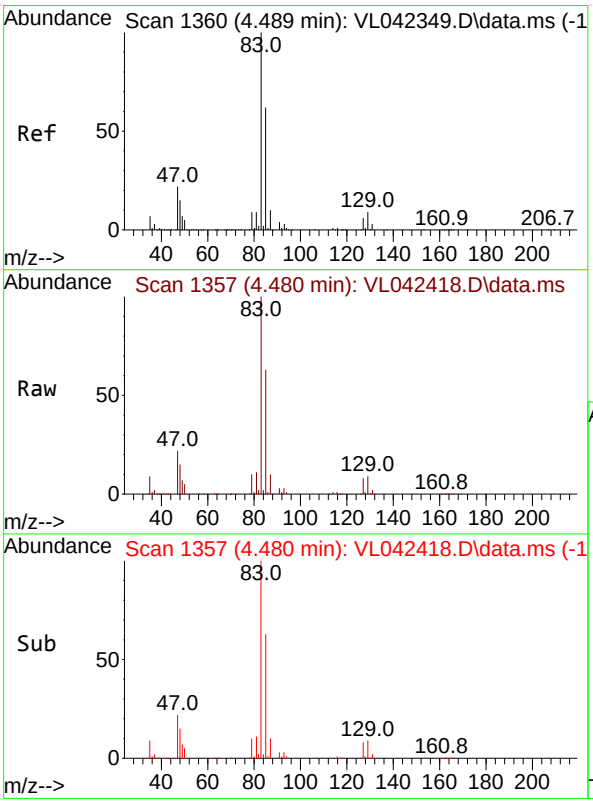
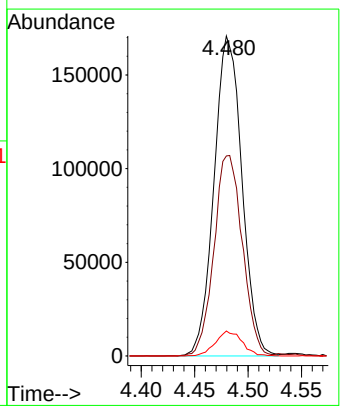


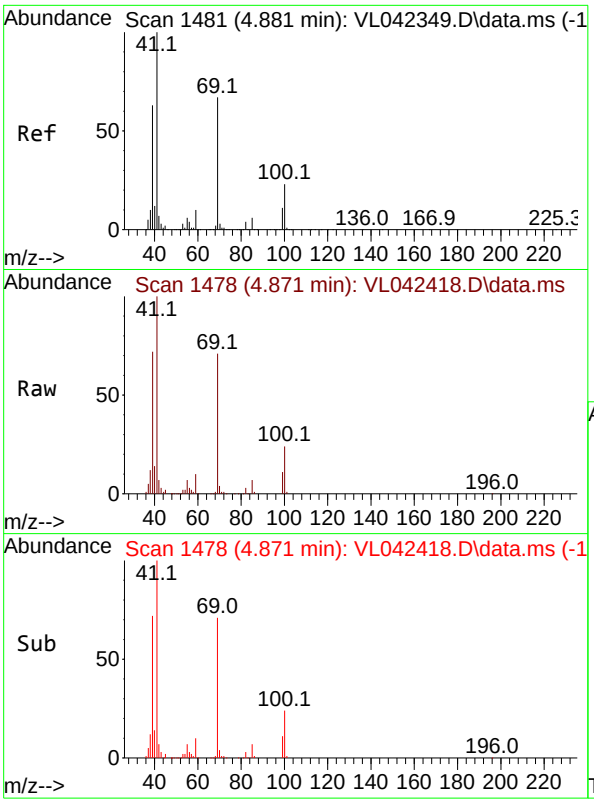




#42
Bromodichloromethane
Concen: 10.222 ppbv
RT: 4.480 min Scan# 1357
Delta R.T. -0.010 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 83 Resp: 310553

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.5 | 49.7 | 74.5 |
| 127 | 7.8 | 5.1 | 7.7# |

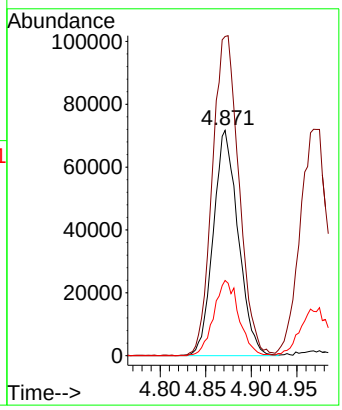





#43
Methyl Methacrylate
Concen: 8.312 ppbv
RT: 4.871 min Scan# 14
Delta R.T. -0.010 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 69 Resp: 13624

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 151.8 | 118.6 | 177.8 |
| 100 | 33.8 | 28.2 | 42.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

**Manual Integrations**
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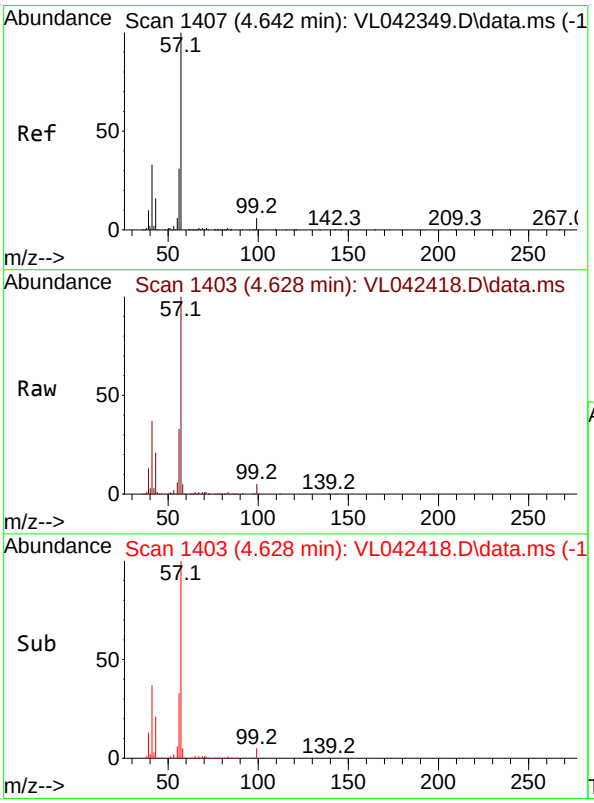
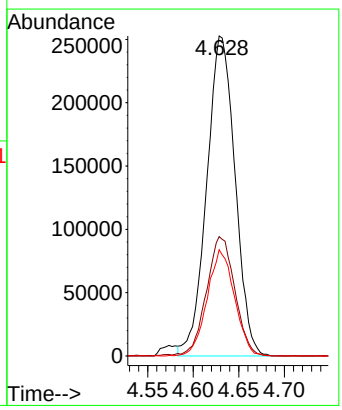
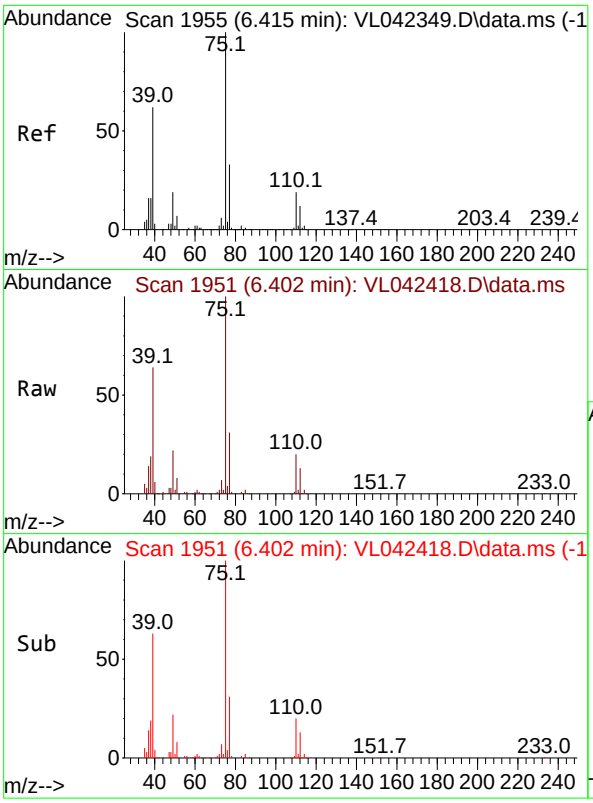



#44
2,2,4-Trimethylpentane
Concen: 8.707 ppbv
RT: 4.628 min Scan# 1403
Delta R.T. -0.013 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 57 Resp: 546967

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 37.6 | 27.2 | 40.8 |
| 56 | 31.9 | 25.7 | 38.5 |

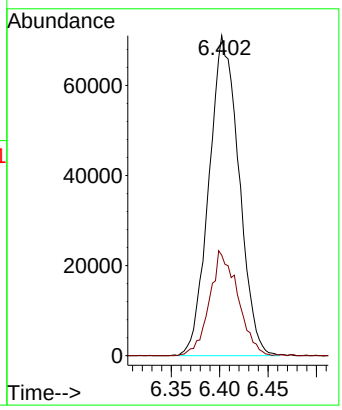





#45
t-1,3-Dichloropropene
Concen: 9.133 ppbv
RT: 6.402 min Scan# 1
Delta R.T. -0.013 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 75 Resp: 15293

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.4 | 27.0 | 40.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

**Manual Integrations**
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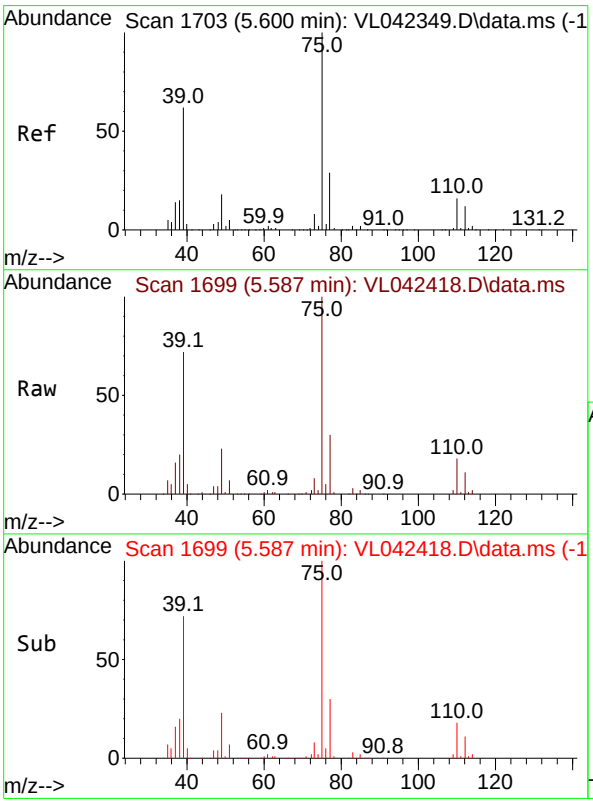
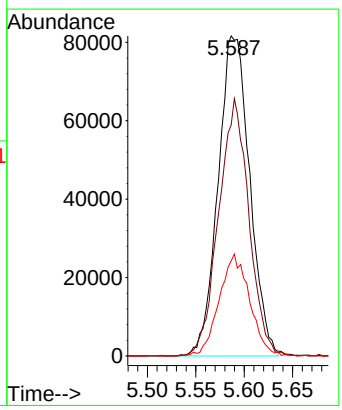
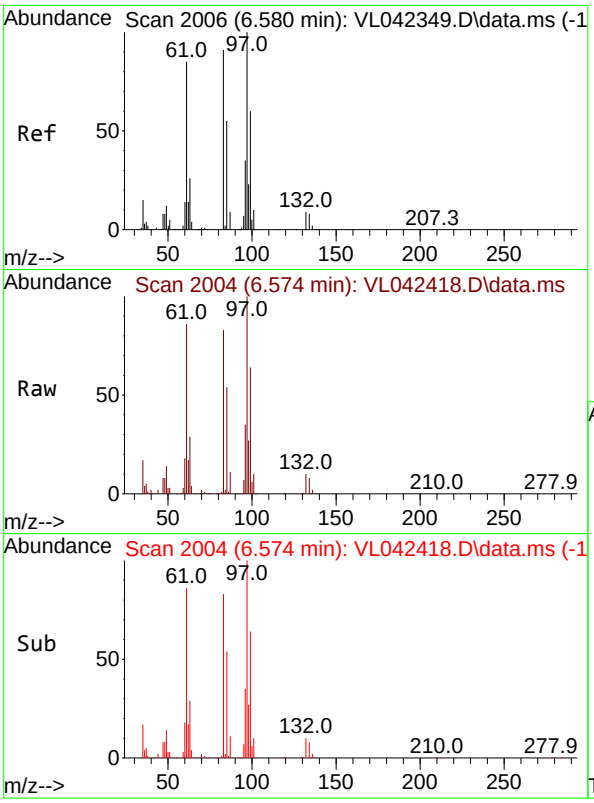



#46
cis-1,3-Dichloropropene
Concen: 9.055 ppbv
RT: 5.587 min Scan# 1699
Delta R.T. -0.013 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 75 Resp: 185557

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 39 | 72.0 | 50.0 | 75.0 |
| 77 | 29.7 | 23.0 | 34.6 |

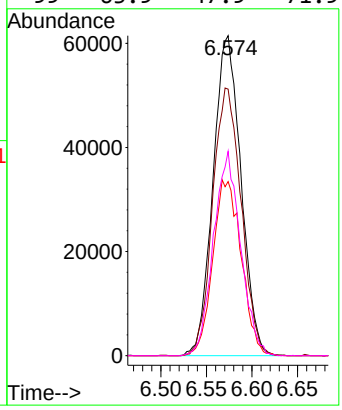





#47
1,1,2-Trichloroethane
Concen: 9.474 ppbv
RT: 6.574 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 97 Resp: 13082

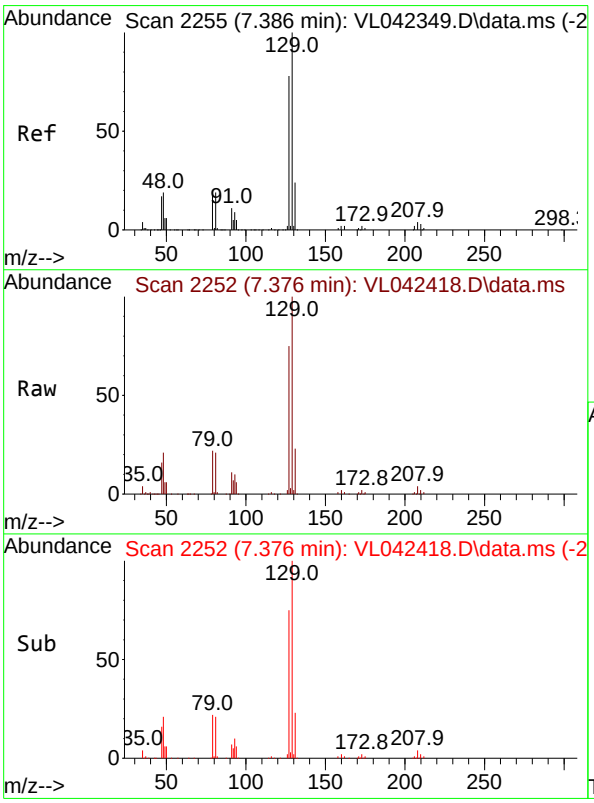
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 83.3 | 72.8 | 109.2 |
| 85 | 54.4 | 44.2 | 66.4 |
| 99 | 63.9 | 47.9 | 71.9 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

**Manual Integrations**
**APPROVED**

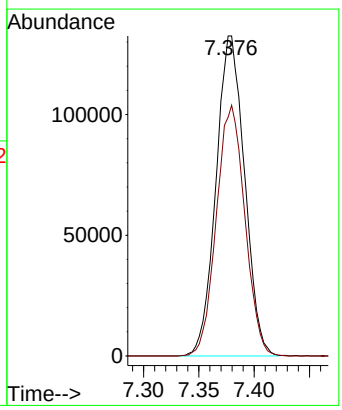
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

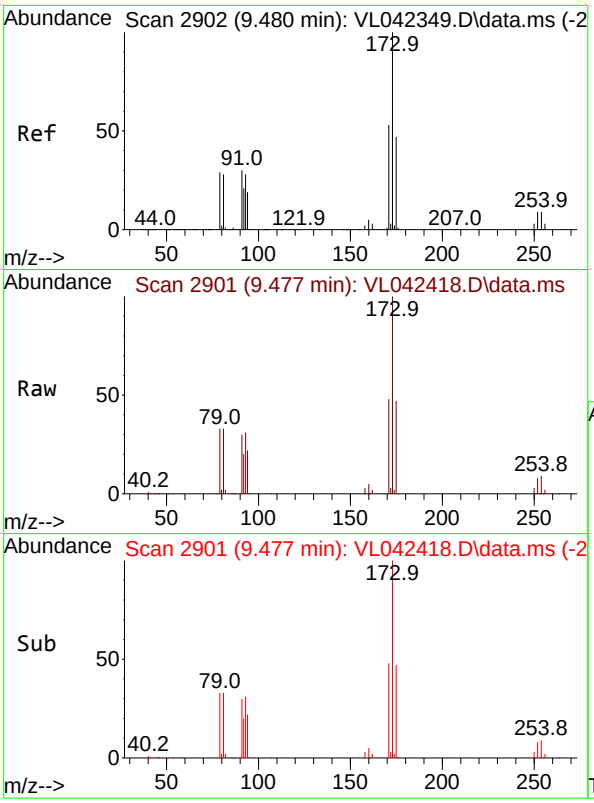



#48
Dibromochloromethane
Concen: 9.753 ppbv
RT: 7.376 min Scan# 2252
Delta R.T. -0.010 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion:129 Resp: 237927

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.1 | 39.1 | 117.3 |

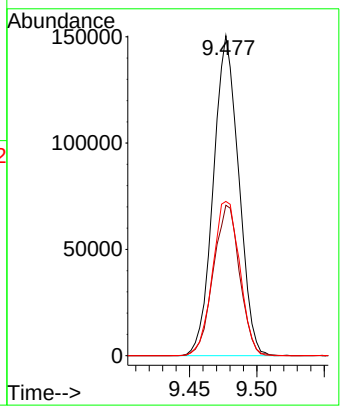





#49
Bromoform
Concen: 9.229 ppbv
RT: 9.477 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion:173 Resp: 19687

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.8 | 38.2 | 57.2 |
| 171 | 51.7 | 40.9 | 61.3 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

**Manual Integrations**
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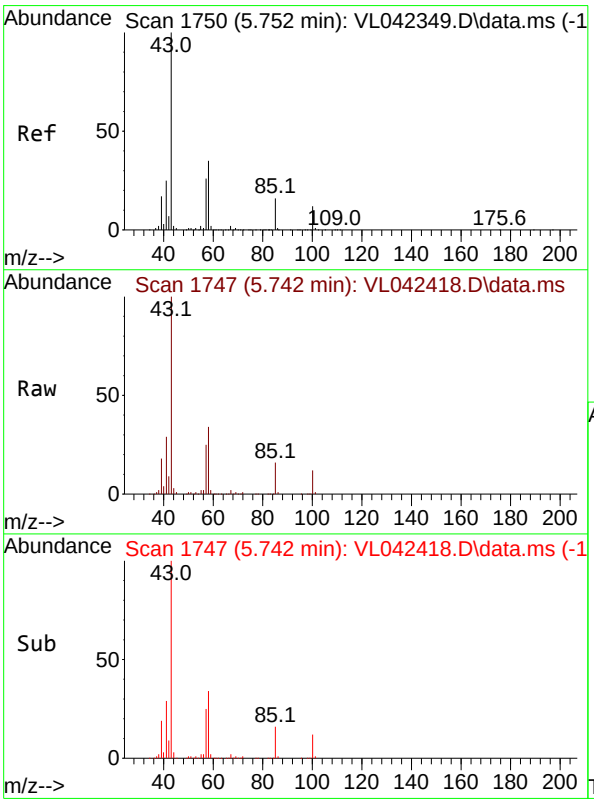
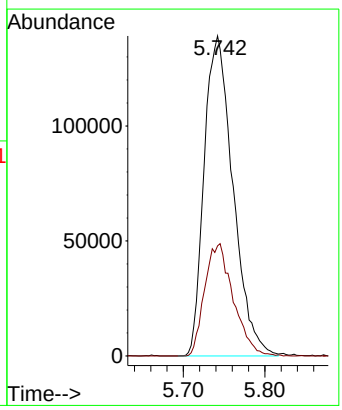
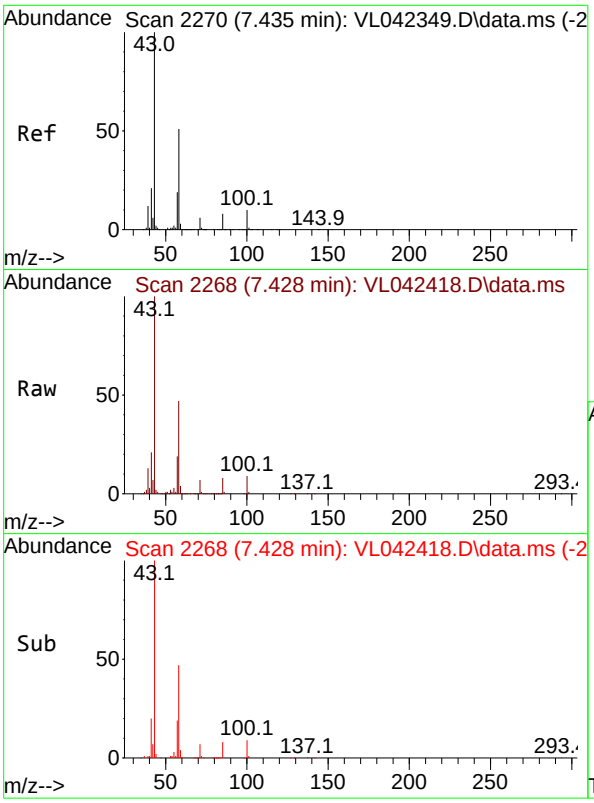



#50
4-Methyl-2-Pentanone
Concen: 7.726 ppbv
RT: 5.742 min Scan# 1747
Delta R.T. -0.010 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 43 Resp: 342379

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 34.9 | 28.6 | 43.0 |






#51
2-Hexanone
Concen: 7.060 ppbv
RT: 7.428 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 43 Resp: 28058

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 46.8 | 40.2 | 60.4 |
| 98 | 0.2 | 0.1 | 0.1 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

**Manual Integrations**
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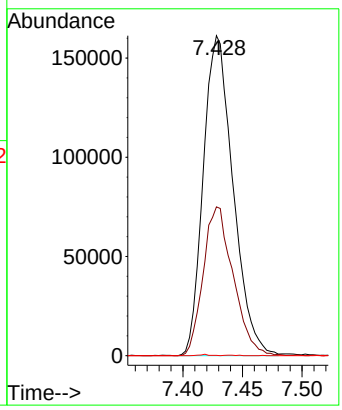
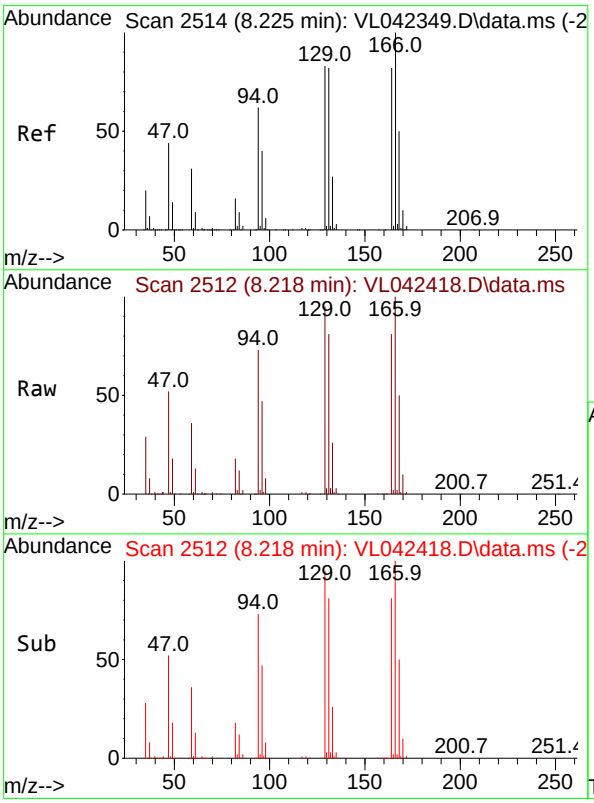
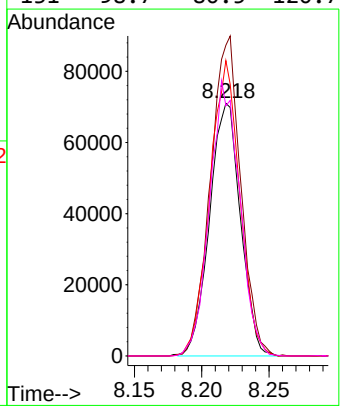


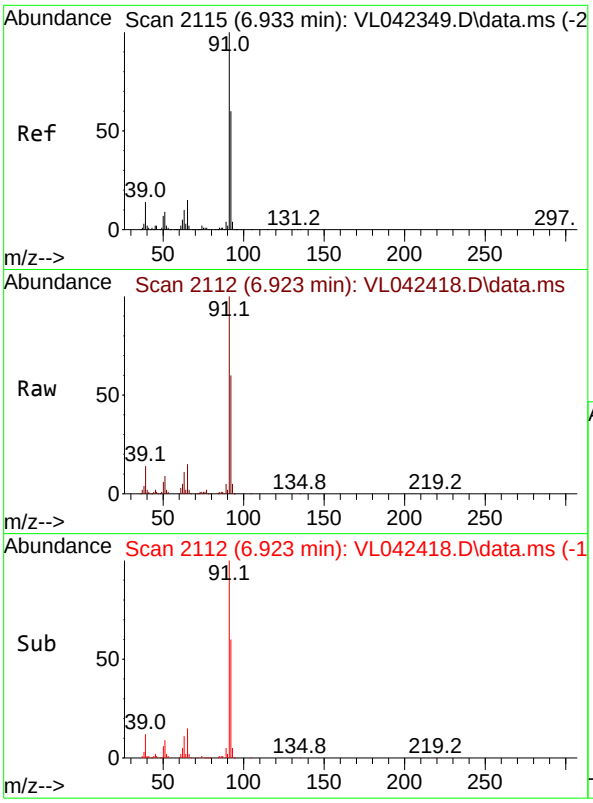




#52
Tetrachloroethene
Concen: 8.058 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. -0.007 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion:164 Resp: 113273

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 122.8 | 98.2 | 147.2 |
| 129 | 116.9 | 81.8 | 122.8 |
| 131 | 98.7 | 80.5 | 120.7 |

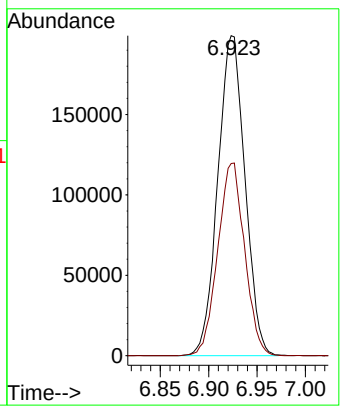





#53
Toluene
Concen: 8.904 ppbv
RT: 6.923 min Scan# 21
Delta R.T. -0.010 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 91 Resp: 38862

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 59.6 | 48.2 | 72.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

**Manual Integrations**
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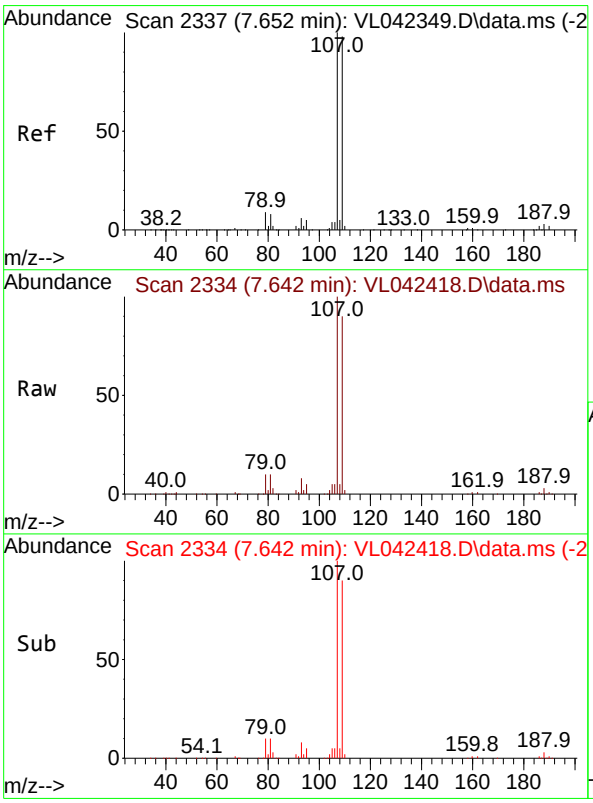
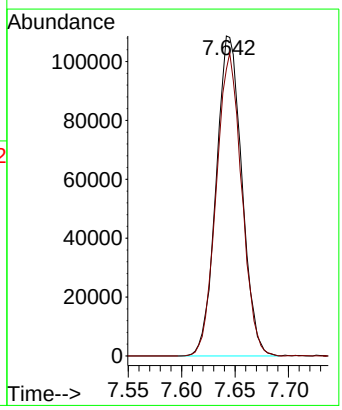
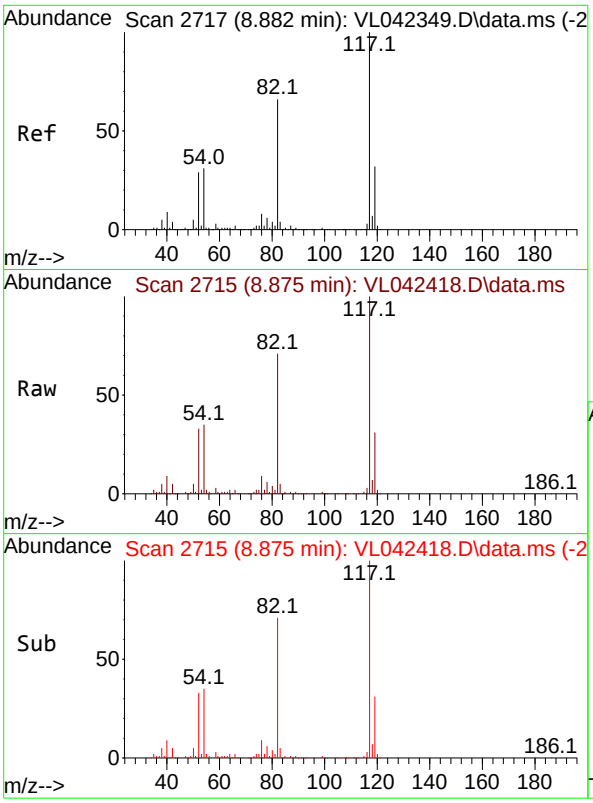



#54
1,2-Dibromoethane
Concen: 9.191 ppbv
RT: 7.642 min Scan# 2334
Delta R.T. -0.010 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion:107 Resp: 181632

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 89.6 | 78.2 | 117.4 |

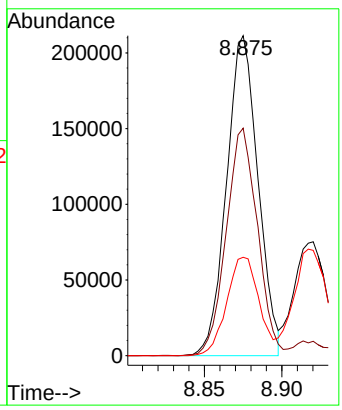





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion:117 Resp: 29913

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 75.2 | 57.8 | 86.6 |
| 119 | 33.3 | 25.2 | 37.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

**Manual Integrations**
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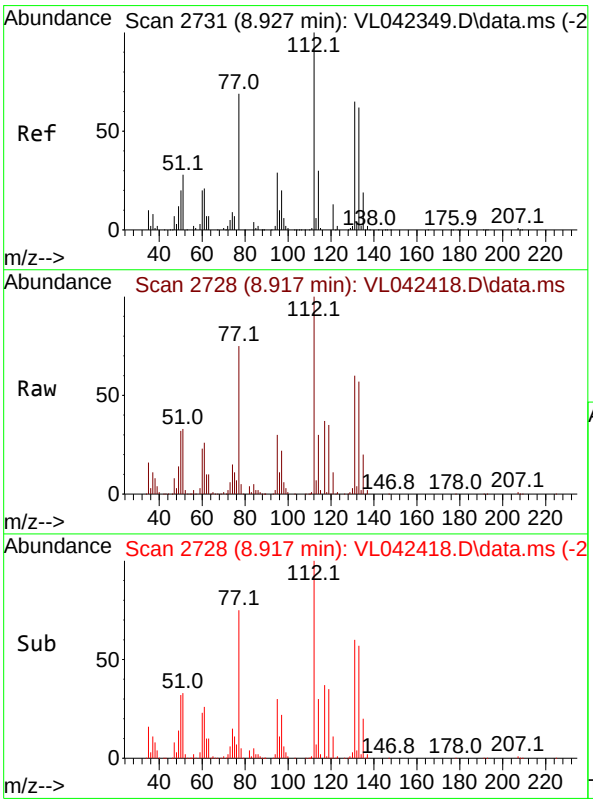
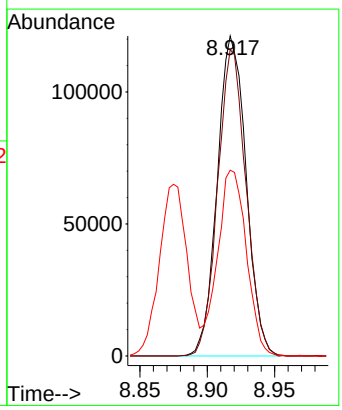
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

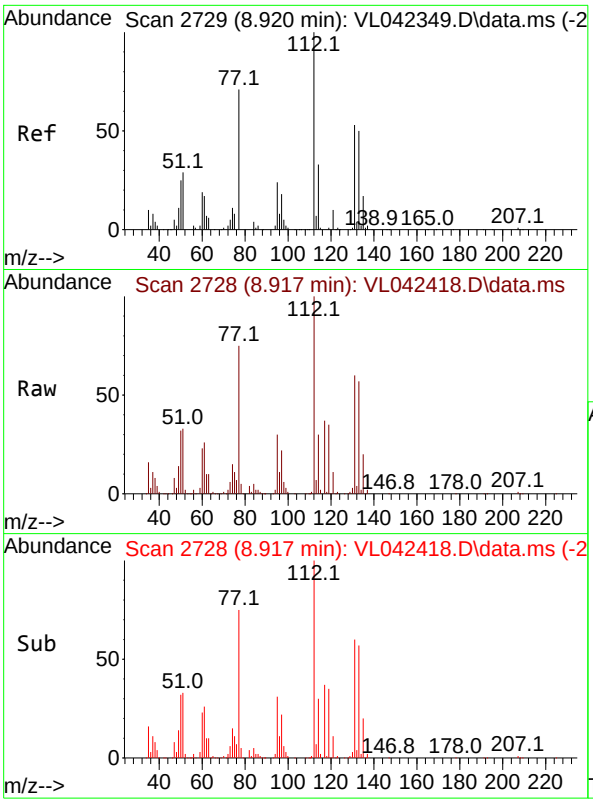



#56
1,1,1,2-Tetrachloroethane
Concen: 9.949 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. -0.010 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion:131 Resp: 180122

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.3 | 78.3 | 117.5 |
| 119 | 57.4 | 48.7 | 73.1 |

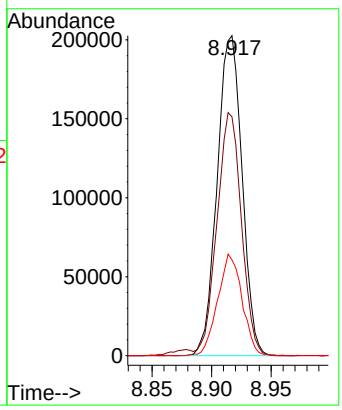





#57
Chlorobenzene
Concen: 9.480 ppbv
RT: 8.917 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion:112 Resp: 29492

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 74.6 | 57.8 | 86.6 |
| 114 | 29.9 | 29.3 | 35.9 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

**Manual Integrations**
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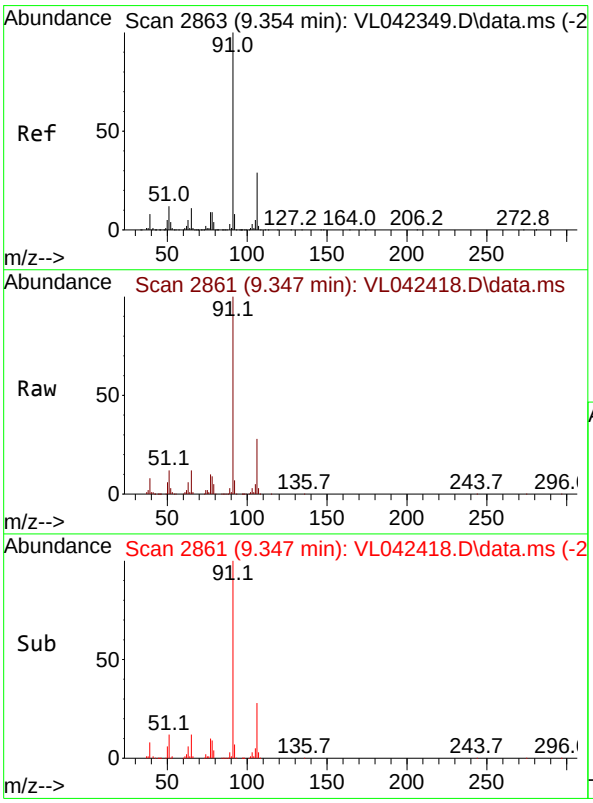
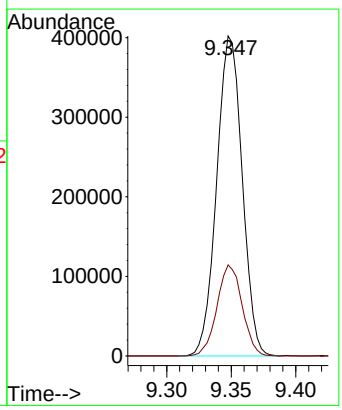
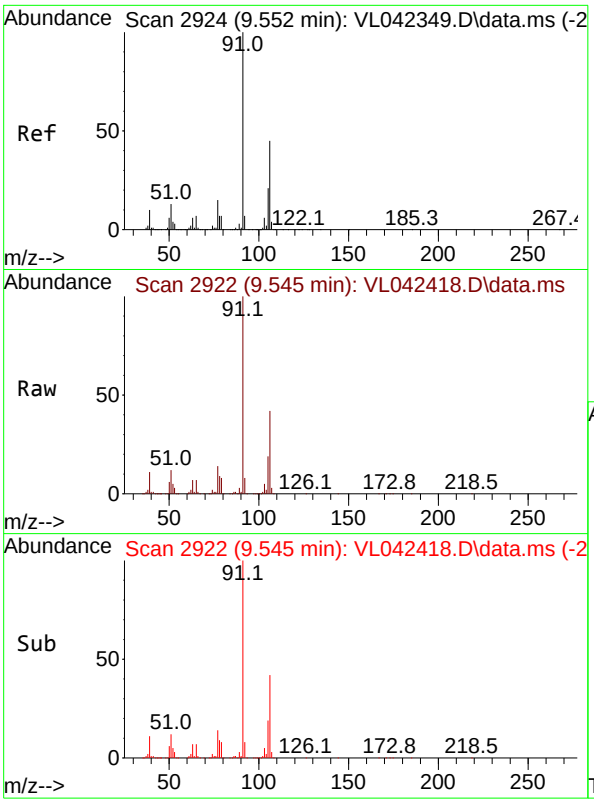



#58
Ethyl Benzene
Concen: 9.321 ppbv
RT: 9.347 min Scan# 2861
Delta R.T. -0.007 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 91 Resp: 552423

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 28.5 | 23.0 | 34.4 |






#59
m/p-Xylene
Concen: 19.000 ppbv m
RT: 9.545 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 91 Resp: 90715

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 42.6 | 35.4 | 53.2 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

**Manual Integrations**
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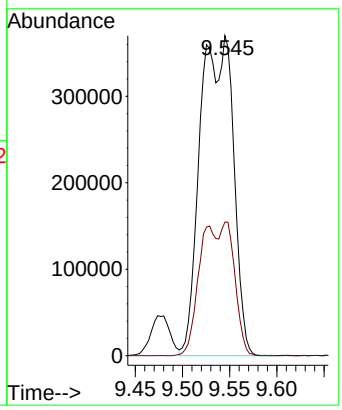
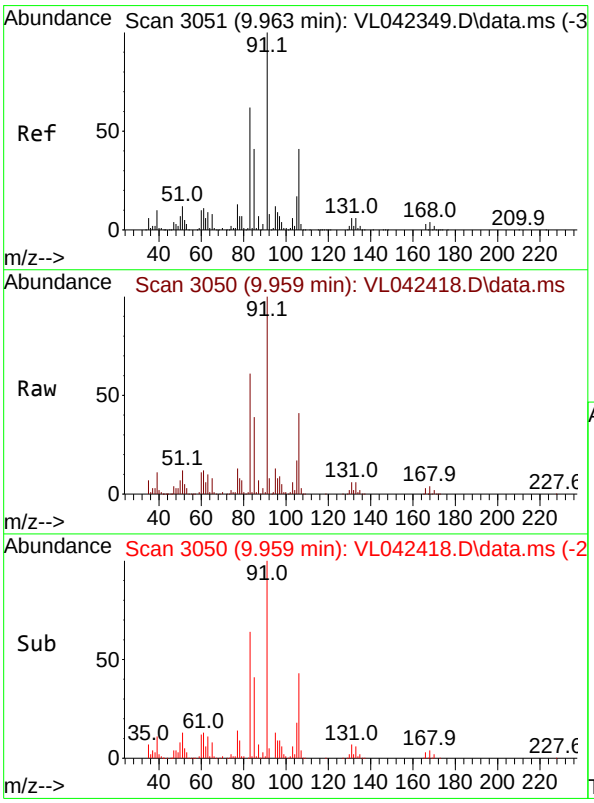
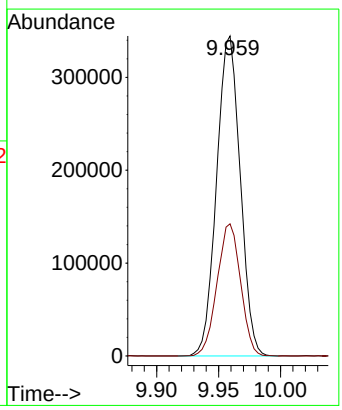


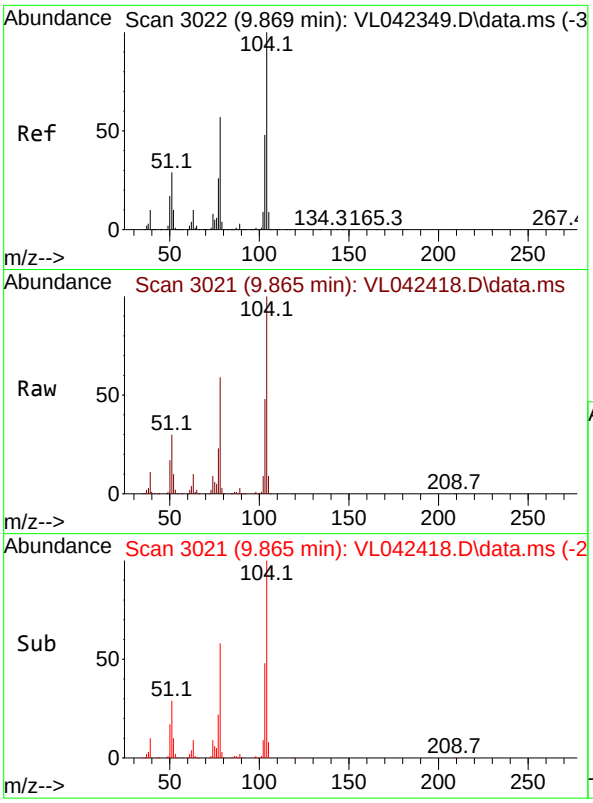




#60
o-Xylene
Concen: 9.515 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 91 Resp: 457491

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 41.1 | 21.1 | 63.4 |






#61
Styrene
Concen: 9.086 ppbv
RT: 9.865 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion:104 Resp: 20851

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 59.1 | 44.6 | 66.8 |
| 103 | 46.5 | 37.4 | 56.0 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

**Manual Integrations**
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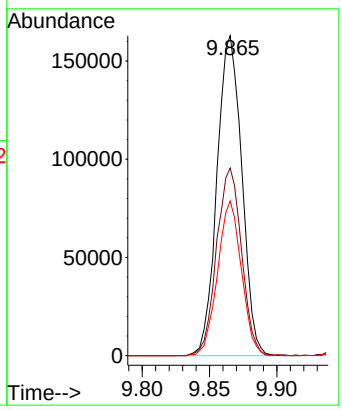
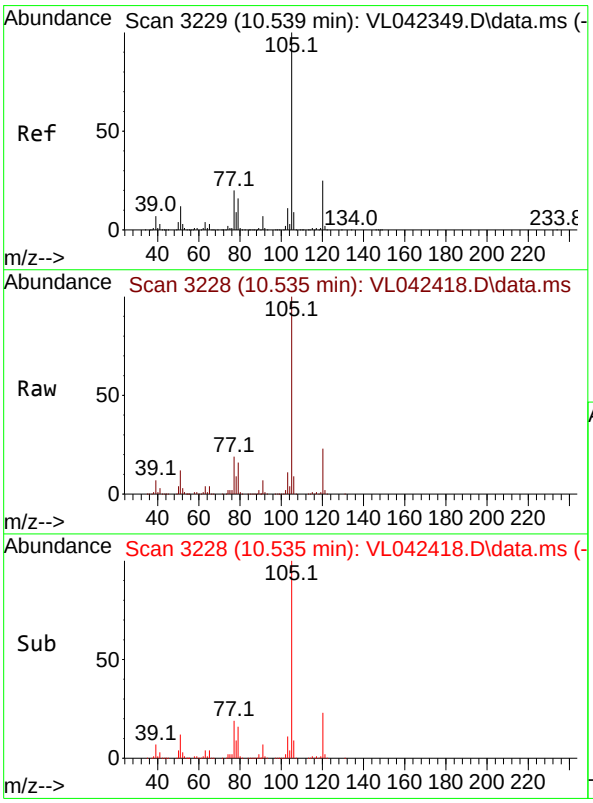
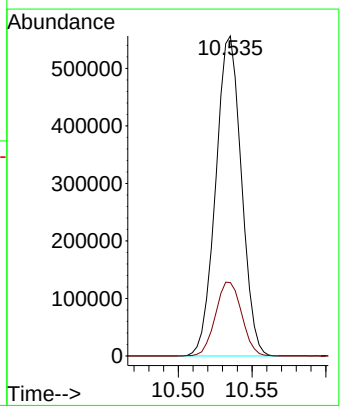


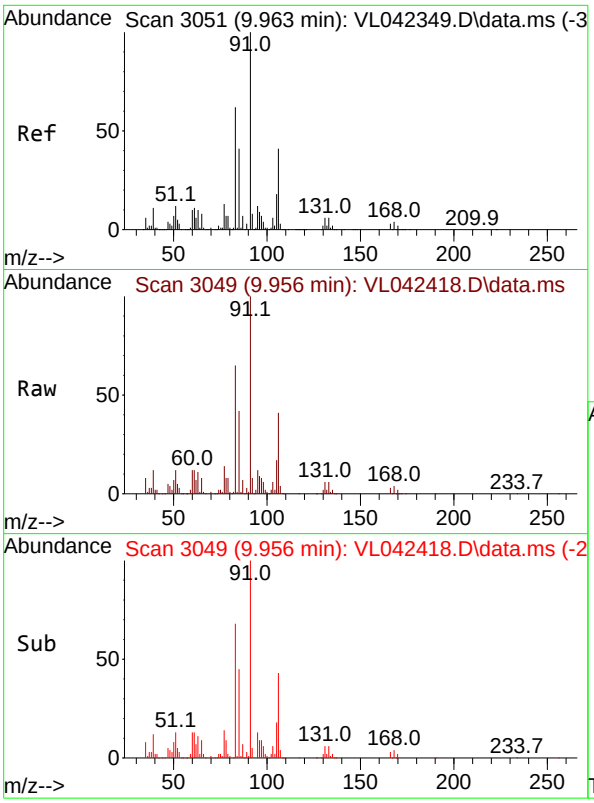




#62
Isopropylbenzene
Concen: 9.546 ppbv
RT: 10.535 min Scan# 3228
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion:105 Resp: 673842

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 23.5 | 19.8 | 29.8 |






#63
1,1,2,2-Tetrachloroethane
Concen: 8.783 ppbv
RT: 9.956 min Scan# 3
Delta R.T. -0.007 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 83 Resp: 27364

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.4 | 4.5 | 13.7 |
| 85 | 64.8 | 32.4 | 97.0 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

**Manual Integrations**
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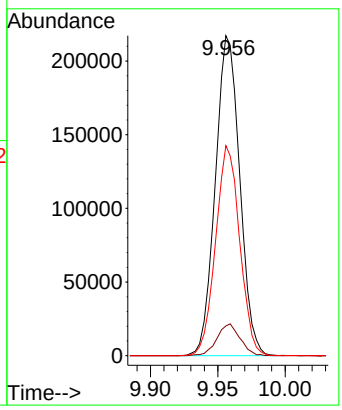
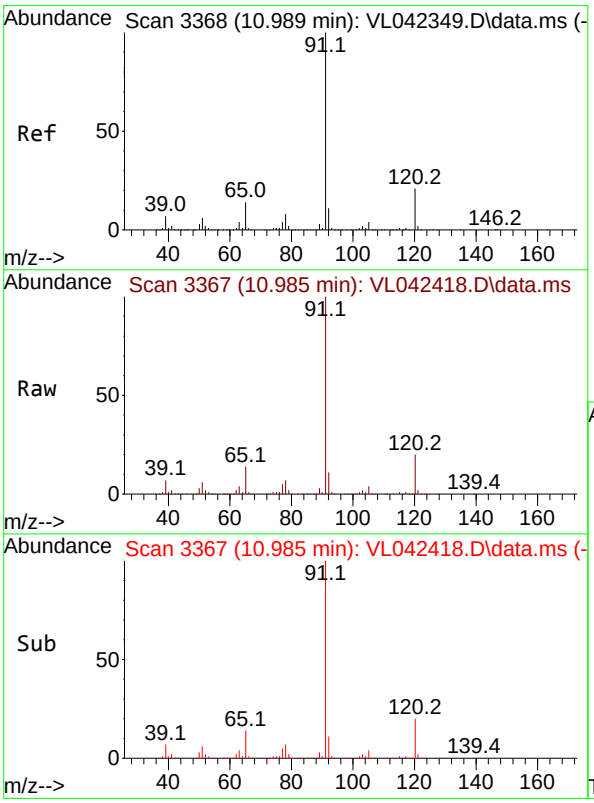
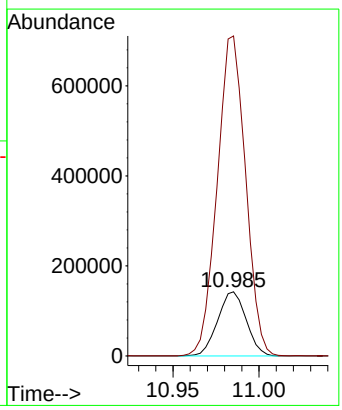


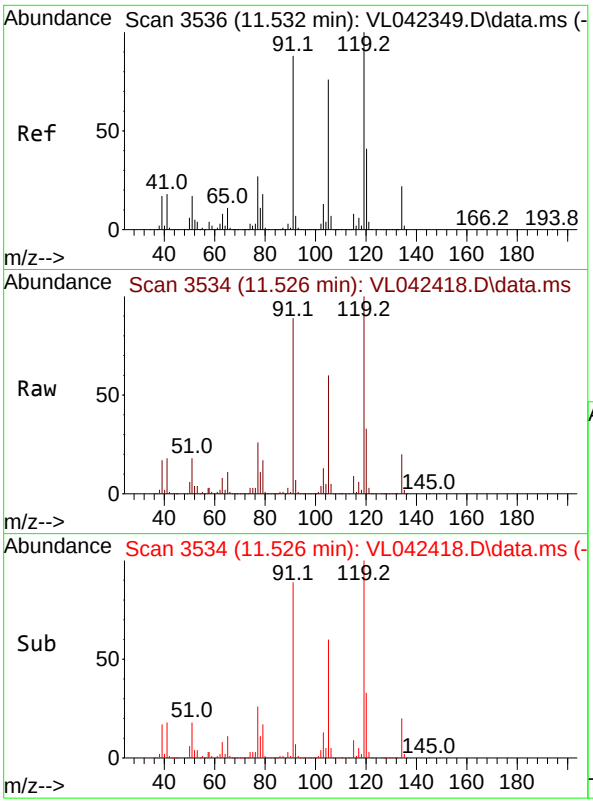




#64
n-propylbenzene
Concen: 9.271 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion:120 Resp: 164482

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 497.0 | 392.4 | 588.6 |

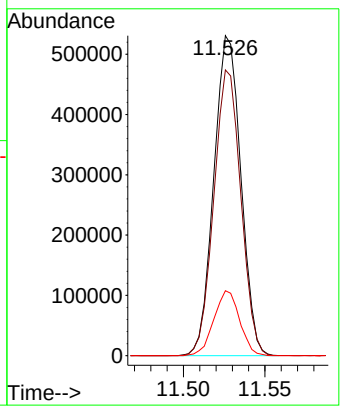





#65
tert-Butylbenzene
Concen: 9.441 ppbv
RT: 11.526 min Scan# 3
Delta R.T. -0.007 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion:119 Resp: 61251

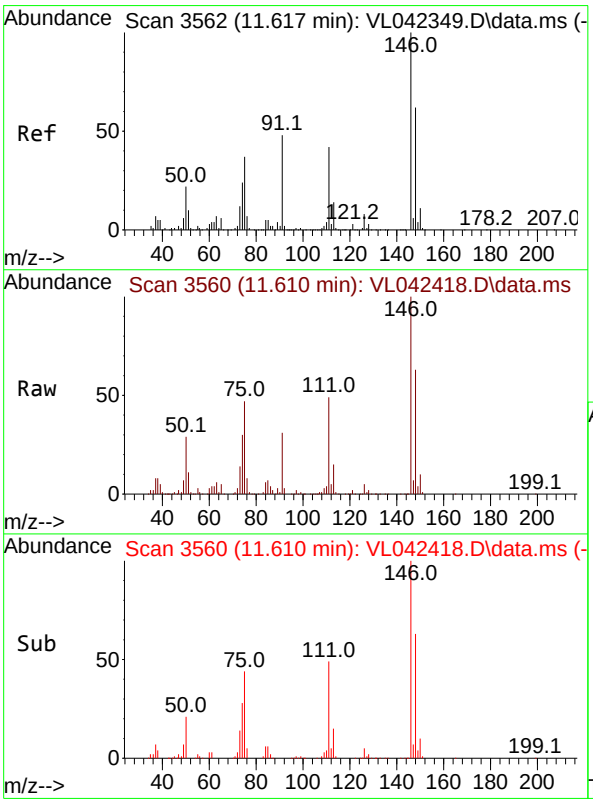
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 89.2 | 74.6 | 111.8 |
| 134 | 19.3 | 18.8 | 28.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

**Manual Integrations**
**APPROVED**

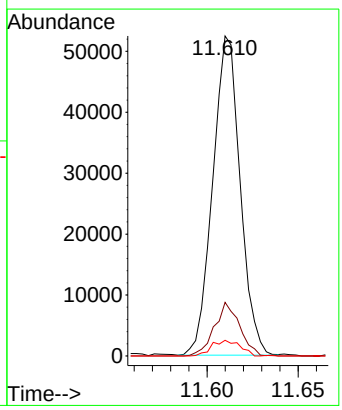
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

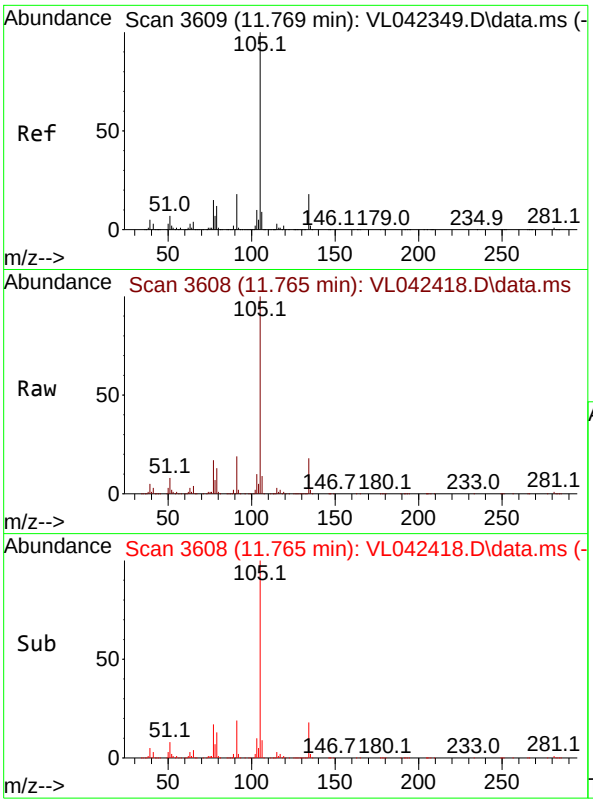



#66
Benzyl Chloride
Concen: 7.684 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.007 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 91 Resp: 54781

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 15.5 | 11.8 | 17.6 |
| 128 | 5.1 | 4.5 | 6.7 |






#67
sec-Butylbenzene
Concen: 9.380 ppbv
RT: 11.765 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

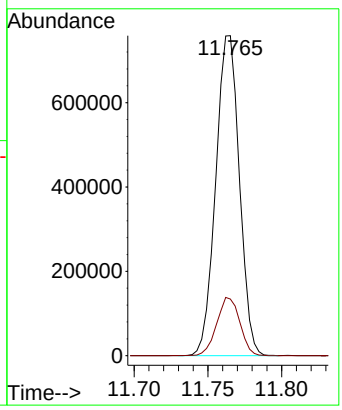
Tgt Ion:105 Resp: 84645

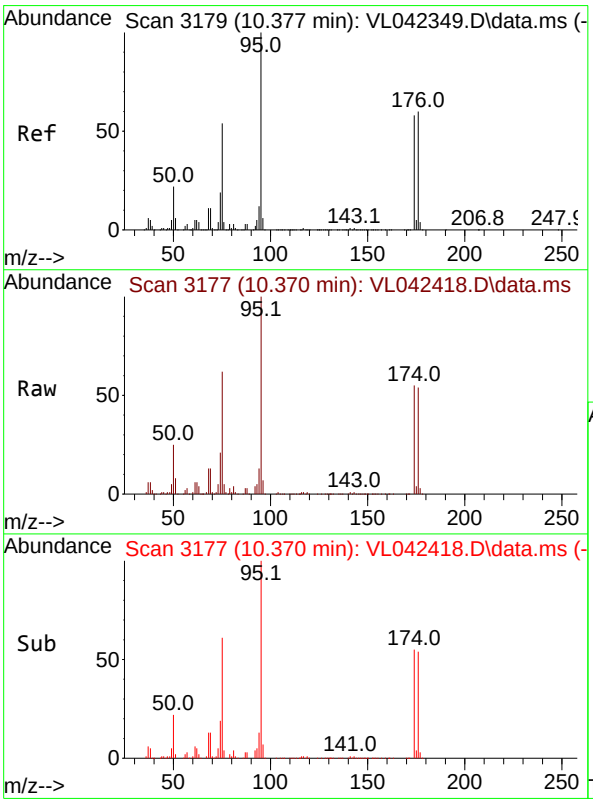
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 17.8 | 14.6 | 21.8 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

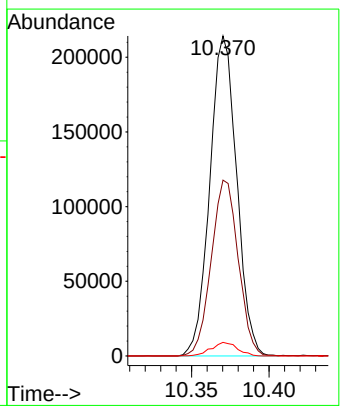


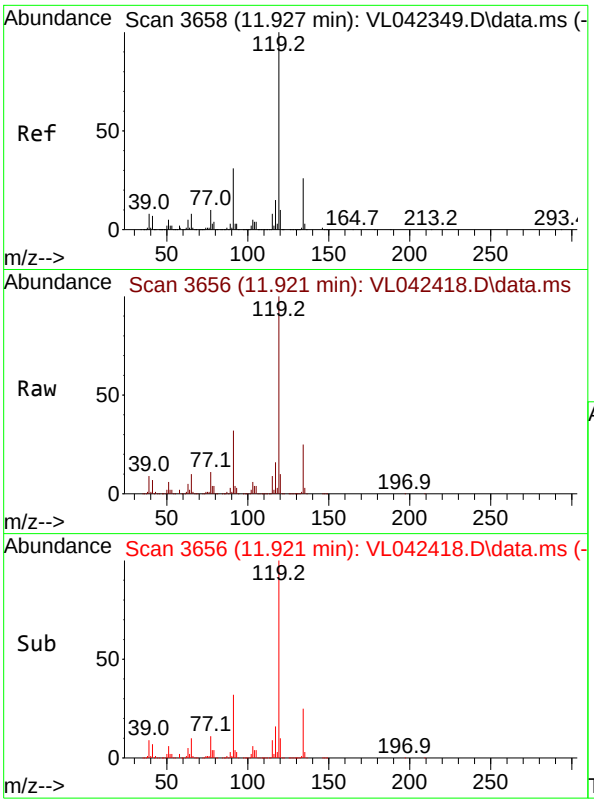




#68
1-Bromo-4-Fluorobenzene
Concen: 10.521 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. -0.007 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 95 Resp: 258626

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 55.3 | 48.5 | 72.7 |
| 175 | 4.1 | 3.7 | 5.5 |

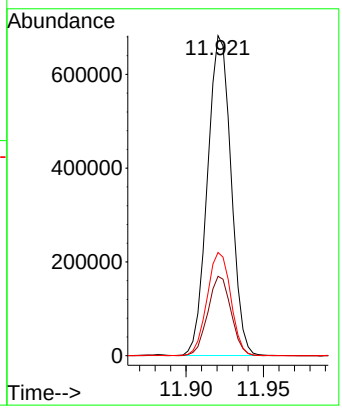





#69
p-Isopropyltoluene
Concen: 9.221 ppbv
RT: 11.921 min Scan# 3
Delta R.T. -0.007 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion:119 Resp: 722909

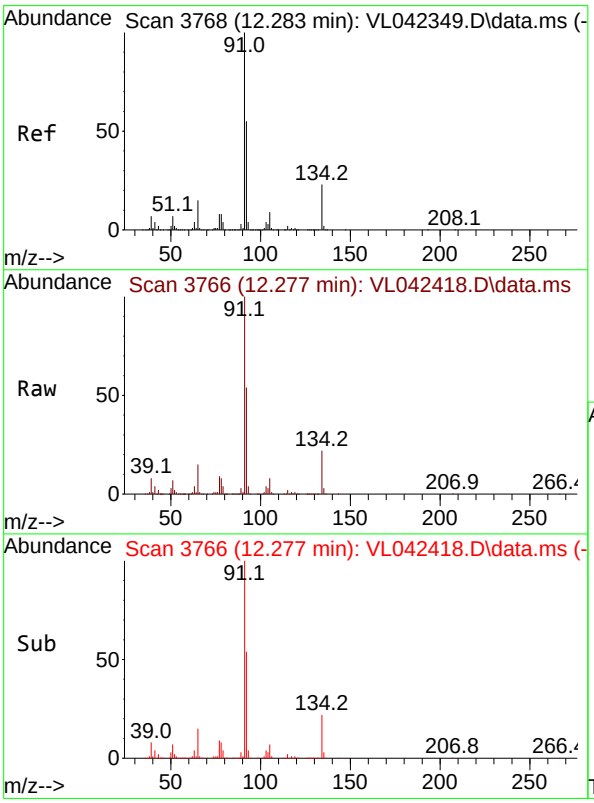
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 24.4 | 20.0 | 30.0 |
| 91 | 32.5 | 24.4 | 36.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

**Manual Integrations**
**APPROVED**

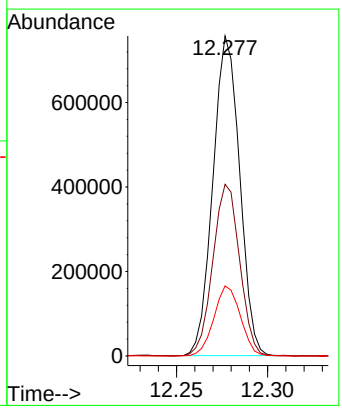
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

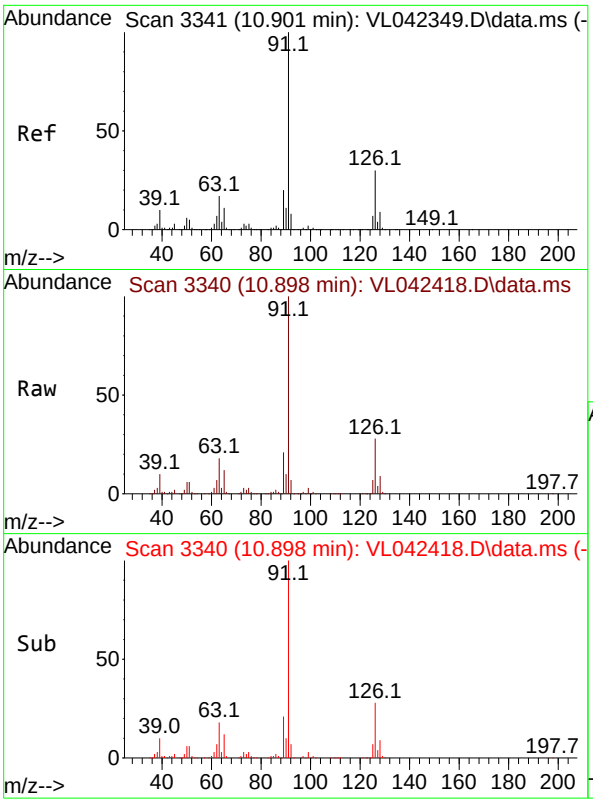



#70
n-Butylbenzene
Concen: 9.452 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. -0.007 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 91 Resp: 771835

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 54.2 | 44.2 | 66.4 |
| 134 | 21.8 | 18.2 | 27.4 |

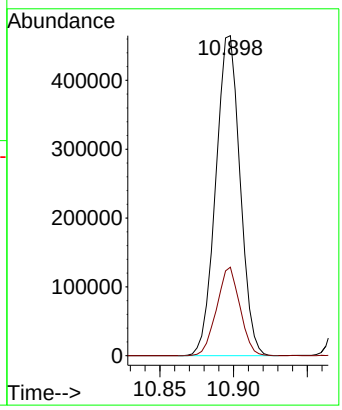





#71
2-Chlorotoluene
Concen: 9.623 ppbv
RT: 10.898 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 91 Resp: 53275

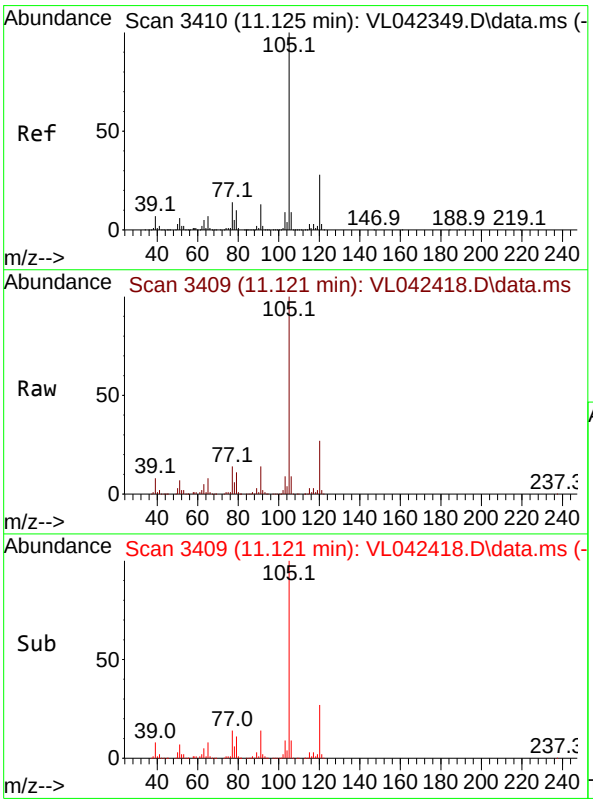
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 26.5 | 11.4 | 45.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

**Manual Integrations**
**APPROVED**

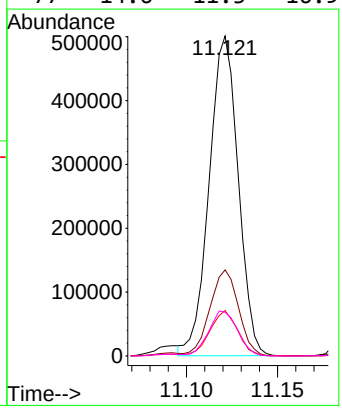
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

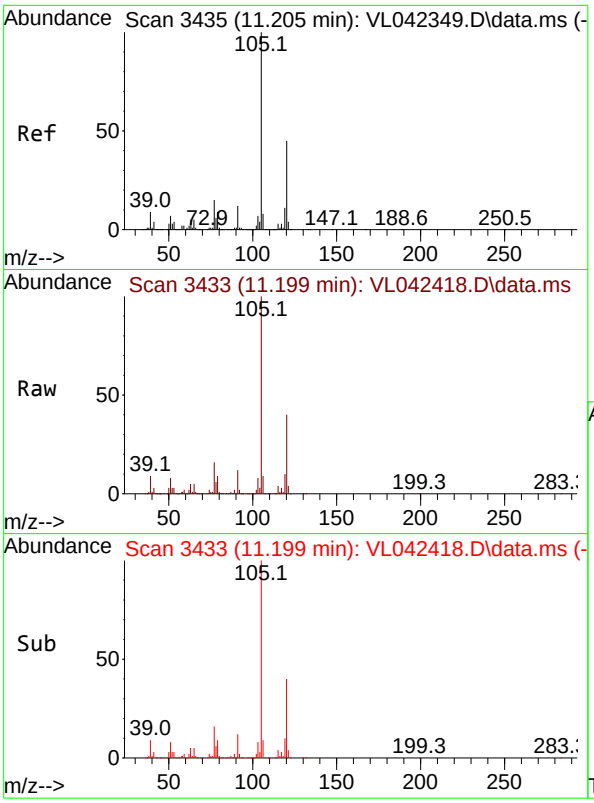



#72
4-Ethyltoluene
Concen: 9.438 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion:105 Resp: 554770

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 27.4 | 23.2 | 34.8 |
| 91 | 14.2 | 10.4 | 15.6 |
| 77 | 14.6 | 11.3 | 16.9 |

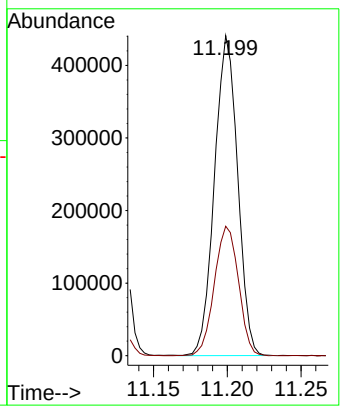





#73
1,3,5-Trimethylbenzene
Concen: 9.283 ppbv
RT: 11.199 min Scan# 34
Delta R.T. -0.007 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion:105 Resp: 48169

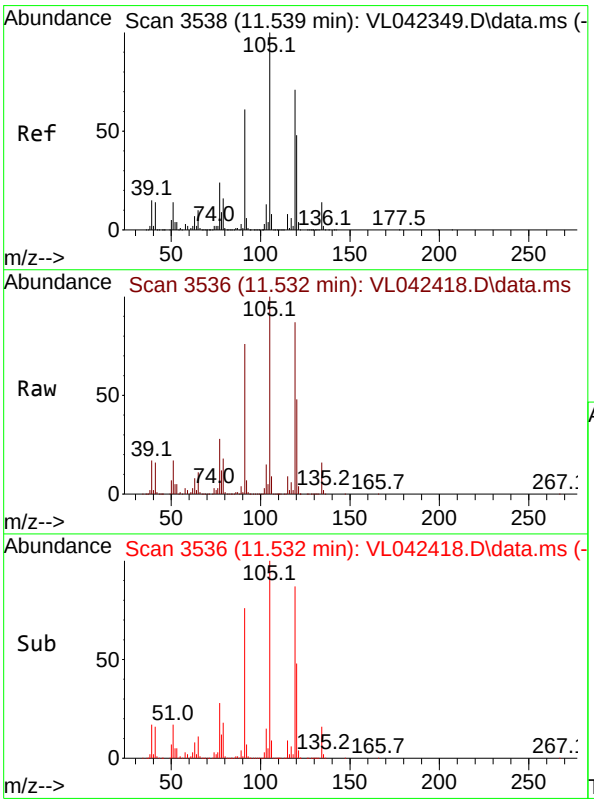
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 40.5 | 35.6 | 53.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

**Manual Integrations**
**APPROVED**

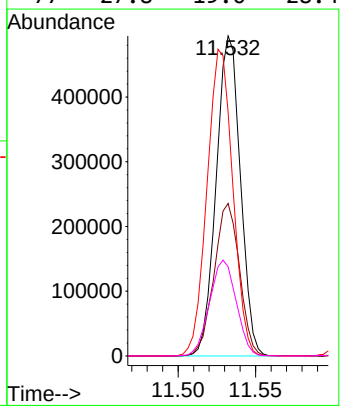
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

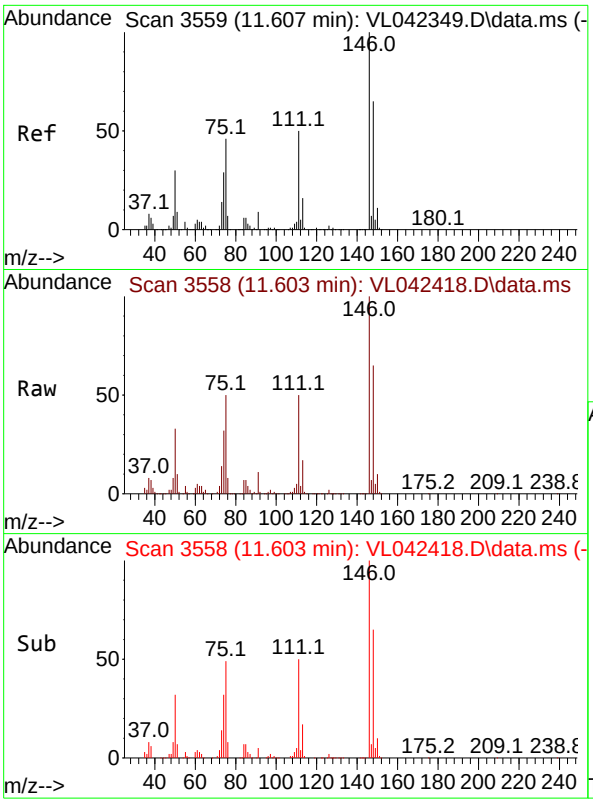



#74
1,2,4-Trimethylbenzene
Concen: 8.869 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.007 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion:105 Resp: 537510

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.6 | 38.1 | 57.1 |
| 91 | 76.2 | 48.8 | 73.2# |
| 77 | 27.8 | 19.0 | 28.4 |






#75
1,3-Dichlorobenzene
Concen: 9.035 ppbv
RT: 11.603 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion:146 Resp: 28465

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 50.9 | 24.3 | 72.8 |
| 148 | 64.3 | 31.6 | 94.8 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

**Manual Integrations**
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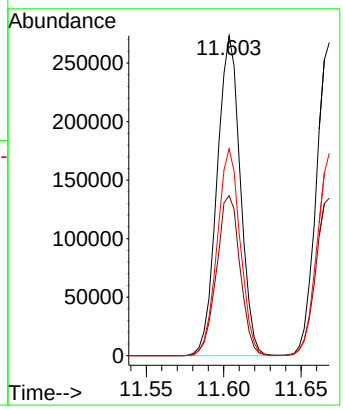
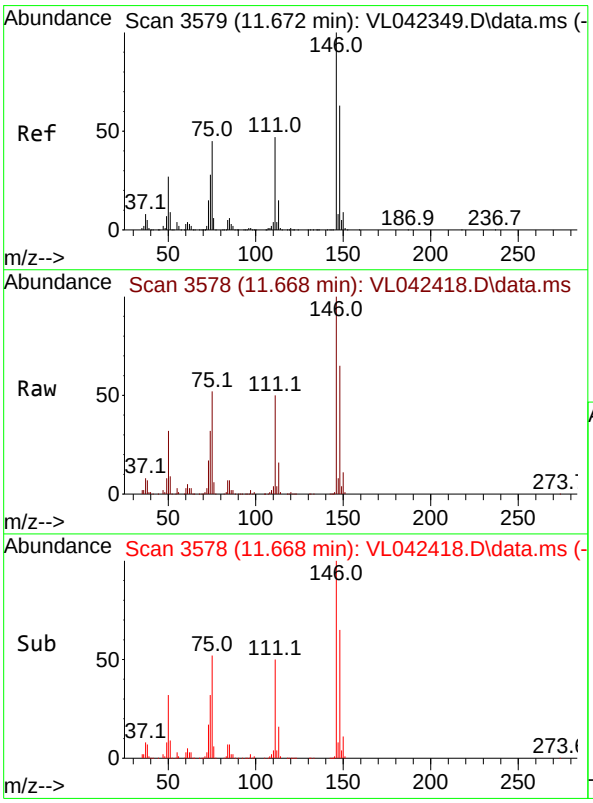
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

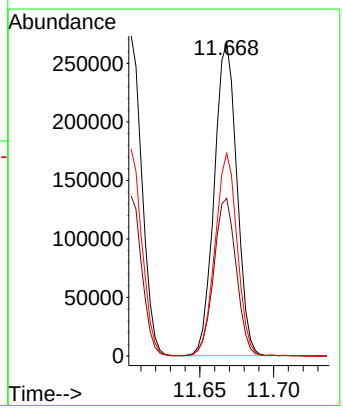


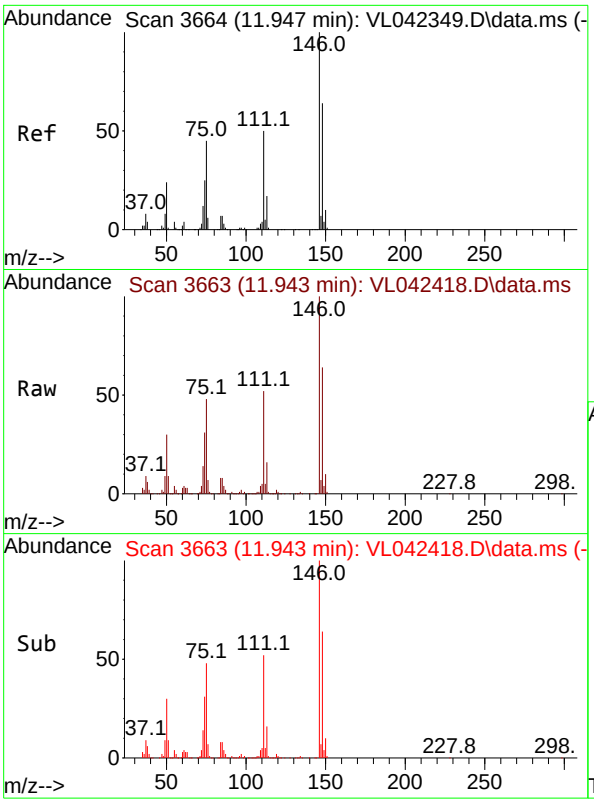




#76
1,4-Dichlorobenzene
Concen: 8.992 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion:146 Resp: 284740

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 50.4 | 24.2 | 72.6 |
| 148 | 63.7 | 32.1 | 96.5 |






#77
1,2-Dichlorobenzene
Concen: 9.095 ppbv
RT: 11.943 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion:146 Resp: 27861

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 53.0 | 25.3 | 75.9 |
| 148 | 64.0 | 31.5 | 94.5 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

**Manual Integrations**
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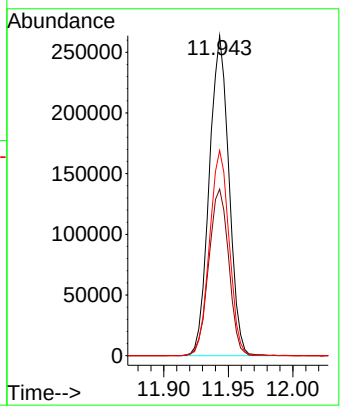
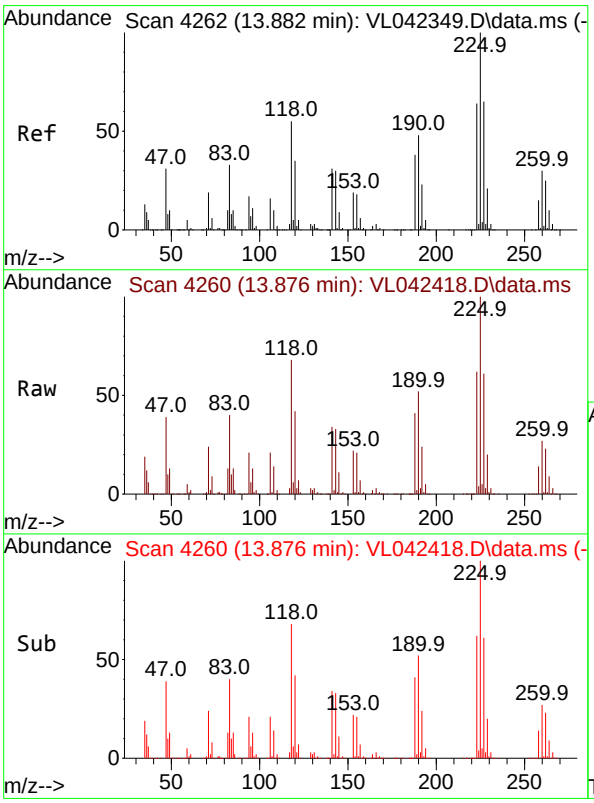
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

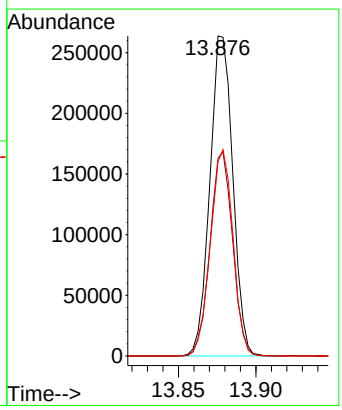


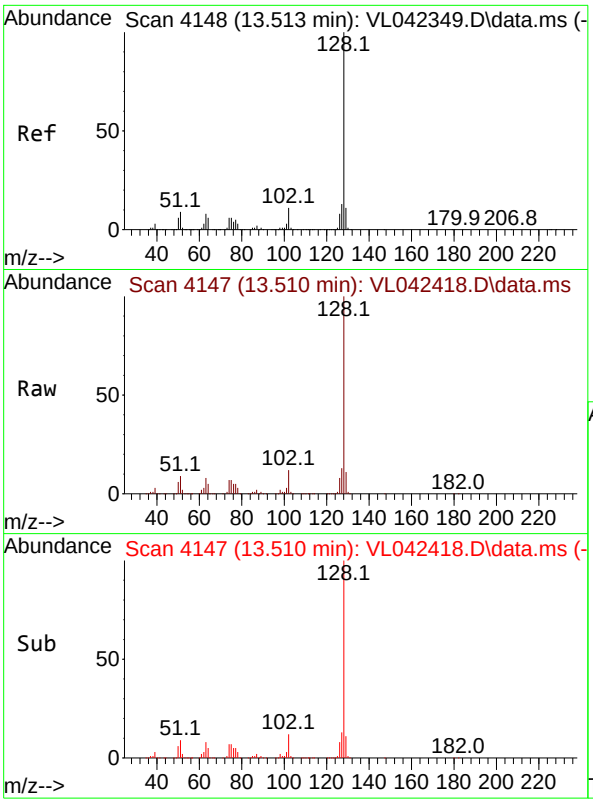




#78
Hexachloro-1,3-Butadiene
Concen: 8.779 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. -0.007 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion:225 Resp: 271569

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.8 | 50.3 | 75.5 |
| 227 | 63.3 | 51.5 | 77.3 |






#79
Naphthalene
Concen: 8.482 ppbv
RT: 13.510 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion:128 Resp: 61476

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.4 | 10.6 | 15.8 |
| 129 | 10.7 | 8.6 | 12.8 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

**Manual Integrations**
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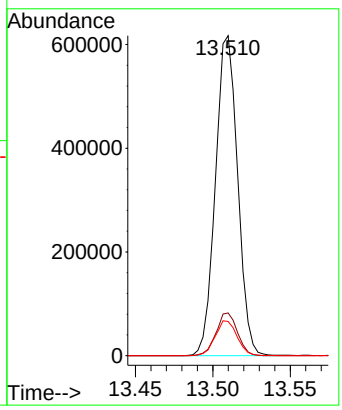
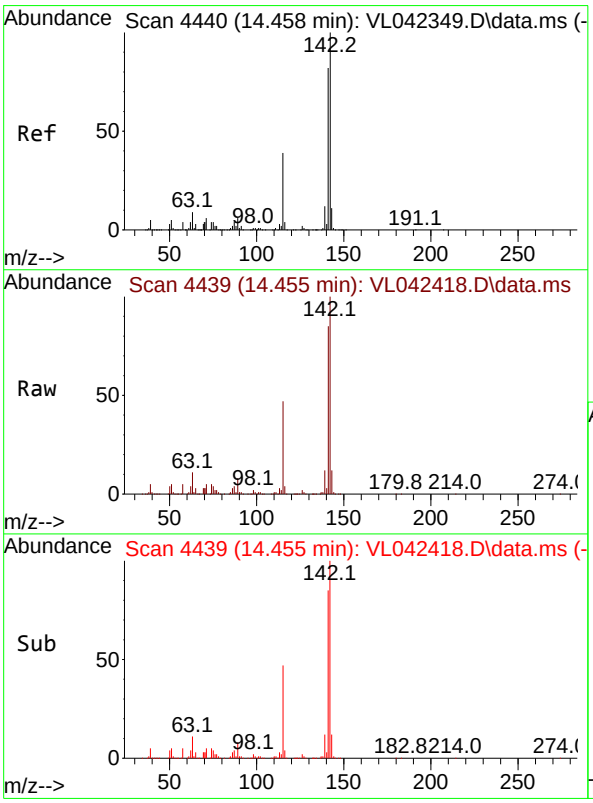
Supervised By :Mahesh Dadoda 04/30/2025

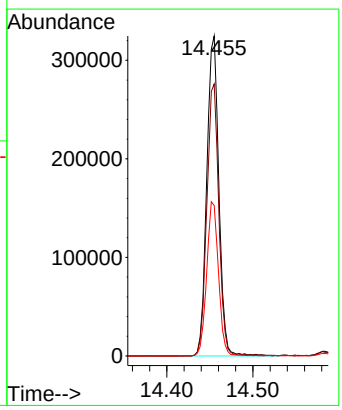


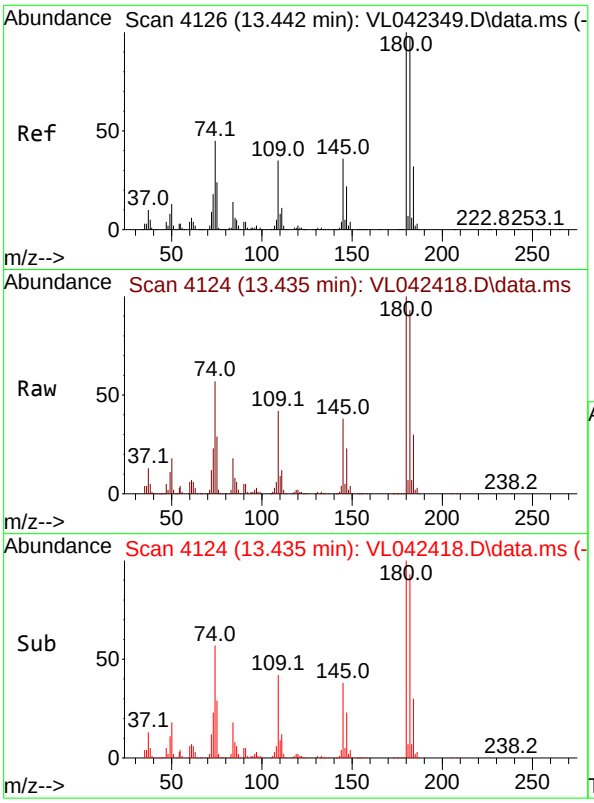




#80
Naphthalene,2-methyl-
Concen: 7.651 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion:142 Resp: 316027

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 84.7 | 66.8 | 100.2 |
| 115 | 47.3 | 33.4 | 50.2 |

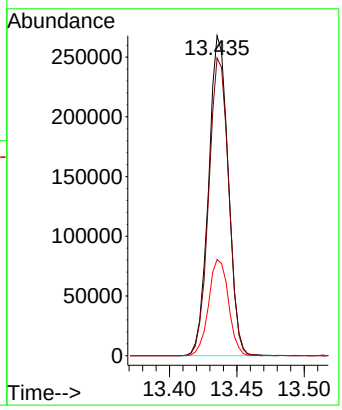





#81
1,2,4-Trichlorobenzene
Concen: 8.729 ppbv
RT: 13.435 min Scan# 4
Delta R.T. -0.007 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion:180 Resp: 27165

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.2 | 76.8 | 115.2 |
| 184 | 30.4 | 24.6 | 36.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | |
| Client Sample ID: | VL0429ABS01 | SDG No.: | Q1665 |
| Lab Sample ID: | VL0429ABS01 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042438.D | 1 | | 04/29/25 10:08 | VL042925 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 11.6 | 57.4 | | 1.04 | 2.47 | ug/m3 |
| 64-17-5 | Ethanol | 2.90 | 5.46 | | 0.60 | 0.94 | ug/m3 |
| 74-87-3 | Chloromethane | 11.0 | 22.7 | | 0.21 | 1.03 | ug/m3 |
| 75-01-4 | Vinyl Chloride | 9.60 | 24.5 | | 0.030 | 0.080 | ug/m3 |
| 74-83-9 | Bromomethane | 10.7 | 41.5 | | 0.54 | 1.94 | ug/m3 |
| 75-00-3 | Chloroethane | 10.5 | 27.7 | | 0.45 | 1.32 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | 8.50 | 25.1 | | 0.38 | 1.47 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | 11.5 | 64.6 | | 0.90 | 2.81 | ug/m3 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 10.9 | 83.5 | | 1.23 | 3.83 | ug/m3 |
| 76-14-2 | Dichlorotetrafluoroethane | 11.2 | 78.3 | | 0.63 | 3.49 | ug/m3 |
| 593-60-2 | Bromoethene | 10.7 | 46.8 | | 0.52 | 2.19 | ug/m3 |
| 75-65-0 | tert-Butyl alcohol | 9.70 | 29.4 | | 0.58 | 1.52 | ug/m3 |
| 142-82-5 | Heptane | 7.60 | 31.1 | | 0.45 | 2.05 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | 9.80 | 24.1 | | 0.17 | 1.23 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethene | 10.2 | 40.4 | | 0.56 | 1.98 | ug/m3 |
| 67-64-1 | Acetone | 9.90 | 23.5 | | 0.57 | 1.19 | ug/m3 |
| 75-15-0 | Carbon Disulfide | 10.4 | 32.4 | | 0.50 | 1.56 | ug/m3 |
| 1634-04-4 | Methyl tert-Butyl Ether | 9.30 | 33.5 | | 0.43 | 1.80 | ug/m3 |
| 75-09-2 | Methylene Chloride | 9.00 | 31.3 | | 0.66 | 1.74 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethene | 9.90 | 39.3 | | 0.75 | 1.98 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | 10.9 | 44.1 | | 0.53 | 2.02 | ug/m3 |
| 110-82-7 | Cyclohexane | 8.60 | 29.6 | | 0.76 | 1.72 | ug/m3 |
| 78-93-3 | 2-Butanone | 9.30 | 27.4 | | 0.35 | 1.47 | ug/m3 |
| 56-23-5 | Carbon Tetrachloride | 11.0 | 69.2 | | 0.060 | 0.19 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethene | 9.60 | 38.1 | | 0.36 | 1.98 | ug/m3 |
| 67-66-3 | Chloroform | 10.6 | 51.8 | | 0.39 | 2.44 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | 10.3 | 56.2 | | 0.050 | 0.16 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | 9.00 | 42.0 | | 0.47 | 2.34 | ug/m3 |
| 71-43-2 | Benzene | 9.30 | 29.7 | | 0.29 | 1.60 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | 12.0 | 48.6 | | 0.36 | 2.02 | ug/m3 |
| 79-01-6 | Trichloroethene | 8.50 | 45.7 | | 0.11 | 0.16 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | 9.00 | 41.6 | | 0.51 | 2.31 | ug/m3 |
| 75-27-4 | Bromodichloromethane | 11.1 | 74.4 | | 0.54 | 3.35 | ug/m3 |
| 108-10-1 | 4-Methyl-2-Pentanone | 7.80 | 32.0 | | 0.37 | 2.05 | ug/m3 |
| 108-88-3 | Toluene | 8.80 | 33.2 | | 0.41 | 1.88 | ug/m3 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | |
| Client Sample ID: | VL0429ABS01 | SDG No.: | Q1665 |
| Lab Sample ID: | VL0429ABS01 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042438.D | 1 | | 04/29/25 10:08 | VL042925 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 8.90 | 40.4 | | 0.27 | 2.27 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | 8.80 | 40.0 | | 0.27 | 2.27 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | 9.90 | 54.0 | | 0.38 | 2.73 | ug/m3 |
| 124-48-1 | Dibromochloromethane | 10.2 | 86.9 | | 0.60 | 4.26 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane | 9.60 | 73.8 | | 0.54 | 0.77 | ug/m3 |
| 127-18-4 | Tetrachloroethene | 8.00 | 54.3 | | 0.14 | 0.20 | ug/m3 |
| 108-90-7 | Chlorobenzene | 10.3 | 47.4 | | 0.37 | 2.30 | ug/m3 |
| 100-41-4 | Ethyl Benzene | 10.1 | 43.9 | | 0.52 | 2.17 | ug/m3 |
| 179601-23-1 | m/p-Xylene | 20.9 | 90.8 | | 0.91 | 4.34 | ug/m3 |
| 95-47-6 | o-Xylene | 10.6 | 46.0 | | 0.52 | 2.17 | ug/m3 |
| 100-42-5 | Styrene | 9.20 | 39.2 | | 0.47 | 2.13 | ug/m3 |
| 75-25-2 | Bromoform | 9.40 | 97.2 | | 0.62 | 5.17 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 9.80 | 67.3 | | 0.070 | 0.21 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | 10.6 | 54.9 | | 0.57 | 2.59 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 10.4 | 51.1 | | 0.54 | 2.46 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 9.90 | 48.7 | | 0.39 | 2.46 | ug/m3 |
| 541-73-1 | 1,3-Dichlorobenzene | 9.90 | 59.5 | | 0.48 | 3.01 | ug/m3 |
| 106-46-7 | 1,4-Dichlorobenzene | 9.90 | 59.5 | | 0.30 | 3.01 | ug/m3 |
| 95-50-1 | 1,2-Dichlorobenzene | 10.1 | 60.7 | | 0.48 | 3.01 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 9.50 | 70.5 | | 0.67 | 3.71 | ug/m3 |
| 87-68-3 | Hexachloro-1,3-Butadiene | 10.0 | 107 | | 0.96 | 5.33 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | 9.90 | 21.9 | | 0.29 | 1.11 | ug/m3 |
| 91-20-3 | Naphthalene | 9.40 | 49.3 | | 0.42 | 0.52 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | 10.4 | 51.1 | | 0.59 | 2.46 | ug/m3 |
| 110-54-3 | Hexane | 8.30 | 29.3 | | 0.39 | 1.76 | ug/m3 |
| 107-05-1 | Allyl Chloride | 9.90 | 31.0 | | 0.47 | 1.57 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | 7.50 | 27.0 | | 0.76 | 1.80 | ug/m3 |
| 80-62-6 | Methyl Methacrylate | 8.00 | 32.8 | | 0.37 | 2.05 | ug/m3 |
| **SURROGATES** | | | | | | | |
| 460-00-4 | 1-Bromo-4-Fluorobenzene | 11.3 | | | 70 (65) - 130 (135) | 113% | SPK: 10 |
| **INTERNAL STANDARDS** | | | | | | | |
| 74-97-5 | Bromochloromethane | 117000 | | 2.79 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 318000 | | 3.962 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 272000 | | 8.881 | | | |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | |
| Client Sample ID: | VL0429ABS01 | SDG No.: | Q1665 |
| Lab Sample ID: | VL0429ABS01 | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042438.D | 1 | | 04/29/25 10:08 | VL042925 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
Data File : VL042438.D
Acq On : 29 Apr 2025 10:08
Operator : SY/MD
Sample : VL0429ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 30 01:17:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) Bromochloromethane | 2.790 | 49 | 116772 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.962 | 114 | 317590 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.881 | 117 | 272312 | 10.000 | ppbv | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.380 | 95 | 253021 | 11.307 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 113.100% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.499 | 85 | 238539 | 11.562 | ppbv | | 96 |
| 3) Chlorodifluoromethane | 1.476 | 51 | 192670 | 9.807 | ppbv | | 92 |
| 4) Chloromethane | 1.534 | 50 | 89832 | 11.003 | ppbv | | 94 |
| 5) Vinyl Chloride | 1.580 | 62 | 85334 | 9.601 | ppbv | | 99 |
| 6) Bromomethane | 1.667 | 94 | 40758 | 10.676 | ppbv | | 94 |
| 7) Chloroethane | 1.706 | 64 | 33756 | 10.502 | ppbv | | 97 |
| 8) Dichlorotetrafluoroethane | 1.554 | 85 | 198106 | 11.184 | ppbv | | 95 |
| 9) Propene | 1.486 | 41 | 70111 | 7.836 | ppbv | | 97 |
| 10) Heptane | 4.981 | 43 | 190583 | 7.582 | ppbv | | 99 |
| 11) Trichlorofluoromethane | 1.877 | 101 | 225308 | 11.484 | ppbv | | 99 |
| 12) 1,1,2-Trichlorotrifluo... | 2.140 | 101 | 174111 | 10.854 | ppbv | | 97 |
| 13) Ethanol | 1.722 | 45 | 4137 | 2.909 | ppbv | | 90 |
| 14) Bromoethene | 1.783 | 108 | 64544 | 10.674 | ppbv | # | 98 |
| 15) Acetone | 1.835 | 43 | 189432 | 9.910 | ppbv | | 98 |
| 16) 1,3-Butadiene | 1.609 | 39 | 90473 | 9.895 | ppbv | | 93 |
| 17) tert-Butyl alcohol | 2.042 | 59 | 230217 | 9.718 | ppbv | | 99 |
| 18) 1,1-Dichloroethene | 2.036 | 96 | 76749 | 10.241 | ppbv | | 96 |
| 19) Isopropyl Alcohol | 1.887 | 45 | 103692 | 9.765 | ppbv | # | 36 |
| 20) Methylene Chloride | 2.062 | 84 | 67298 | 8.989 | ppbv | | 91 |
| 21) Allyl Chloride | 2.097 | 41 | 130014 | 9.851 | ppbv | | 95 |
| 22) trans-1,2-Dichloroethene | 2.340 | 96 | 84797 | 9.938 | ppbv | | 90 |
| 23) Vinyl Acetate | 2.463 | 43 | 61036 | 7.888 | ppbv | # | 95 |
| 24) 1,1-Dichloroethane | 2.408 | 63 | 177233 | 10.934 | ppbv | | 98 |
| 25) Ethyl Acetate | 2.839 | 43 | 416465 | 8.836 | ppbv | | 99 |
| 26) Hexane | 2.826 | 57 | 157544 | 8.260 | ppbv | | 97 |
| 27) Carbon Disulfide | 2.149 | 76 | 211824 | 10.372 | ppbv | | 99 |
| 28) Methyl tert-Butyl Ether | 2.441 | 73 | 116769 | 9.344 | ppbv | | 94 |
| 29) Chloroform | 2.852 | 83 | 286397 | 10.623 | ppbv | | 96 |
| 30) Cyclohexane | 3.858 | 84 | 132615 | 8.601 | ppbv | | 95 |
| 31) cis-1,2-Dichloroethene | 2.722 | 61 | 174328 | 9.613 | ppbv | | 99 |
| 32) 1,1,1-Trichloroethane | 3.369 | 97 | 312429 | 10.294 | ppbv | | 99 |
| 34) 2-Butanone | 2.560 | 43 | 233037 | 9.278 | ppbv | | 98 |
| 35) Carbon Tetrachloride | 3.764 | 117 | 317207 | 11.036 | ppbv | | 93 |
| 36) Benzene | 3.658 | 78 | 317350 | 9.264 | ppbv | | 96 |
| 37) 1,2-Dichloroethane | 3.221 | 62 | 247446 | 12.035 | ppbv | # | 96 |
| 38) Trichloroethene | 4.551 | 130 | 127601 | 8.523 | ppbv | | 91 |
| 39) 1,2-Dichloropropane | 4.318 | 63 | 115449 | 9.044 | ppbv | | 92 |
| 40) 1,4-Dioxane | 4.586 | 88 | 52820 | 7.529 | ppbv | # | 92 |
| 41) Tetrahydrofuran | 3.055 | 42 | 124059 | 8.471 | ppbv | | 98 |
| 42) Bromodichloromethane | 4.493 | 83 | 317253 | 11.088 | ppbv | | 99 |
| 43) Methyl Methacrylate | 4.881 | 69 | 123817m | 8.020 | ppbv | | |
| 44) 2,2,4-Trimethylpentane | 4.641 | 57 | 531439 | 8.983 | ppbv | | 95 |
| 45) t-1,3-Dichloropropene | 6.418 | 75 | 140981 | 8.940 | ppbv | | 100 |

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
Data File : VL042438.D
Acq On : 29 Apr 2025 10:08
Operator : SY/MD
Sample : VL0429ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 30 01:17:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.606 | 75 | 170063 | 8.811 | ppbv | # | 84 |
| 47) 1,1,2-Trichloroethane | 6.583 | 97 | 128662 | 9.893 | ppbv | | 95 |
| 48) Dibromochloromethane | 7.389 | 129 | 233350 | 10.156 | ppbv | | 100 |
| 49) Bromoform | 9.487 | 173 | 189484 | 9.431 | ppbv | | 99 |
| 50) 4-Methyl-2-Pentanone | 5.755 | 43 | 327508 | 7.846 | ppbv | | 98 |
| 51) 2-Hexanone | 7.438 | 43 | 262697 | 7.018 | ppbv | # | 95 |
| 52) Tetrachloroethene | 8.228 | 164 | 106031 | 8.008 | ppbv | | 90 |
| 53) Toluene | 6.936 | 91 | 363707 | 8.848 | ppbv | | 99 |
| 54) 1,2-Dibromoethane | 7.658 | 107 | 178709 | 9.601 | ppbv | | 96 |
| 56) 1,1,1,2-Tetrachloroethane | 8.930 | 131 | 180979 | 10.981 | ppbv | | 96 |
| 57) Chlorobenzene | 8.924 | 112 | 290861 | 10.270 | ppbv | | 99 |
| 58) Ethyl Benzene | 9.357 | 91 | 545497 | 10.111 | ppbv | | 98 |
| 59) m/p-Xylene | 9.555 | 91 | 906532m | 20.857 | ppbv | | |
| 60) o-Xylene | 9.966 | 91 | 465645 | 10.639 | ppbv | | 94 |
| 61) Styrene | 9.872 | 104 | 191741 | 9.178 | ppbv | | 97 |
| 62) Isopropylbenzene | 10.542 | 105 | 667839 | 10.393 | ppbv | | 97 |
| 63) 1,1,2,2-Tetrachloroethane | 9.966 | 83 | 278491 | 9.819 | ppbv | | 99 |
| 64) n-propylbenzene | 10.992 | 120 | 161309 | 9.987 | ppbv | | 91 |
| 65) tert-Butylbenzene | 11.535 | 119 | 605972 | 10.260 | ppbv | | 98 |
| 66) Benzyl Chloride | 11.620 | 91 | 46913 | 7.229 | ppbv | | 99 |
| 67) sec-Butylbenzene | 11.772 | 105 | 868275 | 10.569 | ppbv | | 98 |
| 69) p-Isopropyltoluene | 11.927 | 119 | 733796 | 10.282 | ppbv | | 96 |
| 70) n-Butylbenzene | 12.283 | 91 | 796622 | 10.717 | ppbv | | 98 |
| 71) 2-Chlorotoluene | 10.904 | 91 | 534951 | 10.614 | ppbv | | 96 |
| 72) 4-Ethyltoluene | 11.128 | 105 | 553879 | 10.351 | ppbv | | 97 |
| 73) 1,3,5-Trimethylbenzene | 11.205 | 105 | 491459 | 10.403 | ppbv | | 95 |
| 74) 1,2,4-Trimethylbenzene | 11.539 | 105 | 548408 | 9.939 | ppbv | # | 86 |
| 75) 1,3-Dichlorobenzene | 11.610 | 146 | 284809 | 9.931 | ppbv | | 97 |
| 76) 1,4-Dichlorobenzene | 11.675 | 146 | 285571 | 9.907 | ppbv | | 98 |
| 77) 1,2-Dichlorobenzene | 11.950 | 146 | 282424 | 10.128 | ppbv | | 96 |
| 78) Hexachloro-1,3-Butadiene | 13.885 | 225 | 280954 | 9.977 | ppbv | | 98 |
| 79) Naphthalene | 13.516 | 128 | 621879 | 9.425 | ppbv | | 100 |
| 80) Naphthalene,2-methyl- | 14.458 | 142 | 312733 | 8.317 | ppbv | | 95 |
| 81) 1,2,4-Trichlorobenzene | 13.442 | 180 | 269082 | 9.498 | ppbv | | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

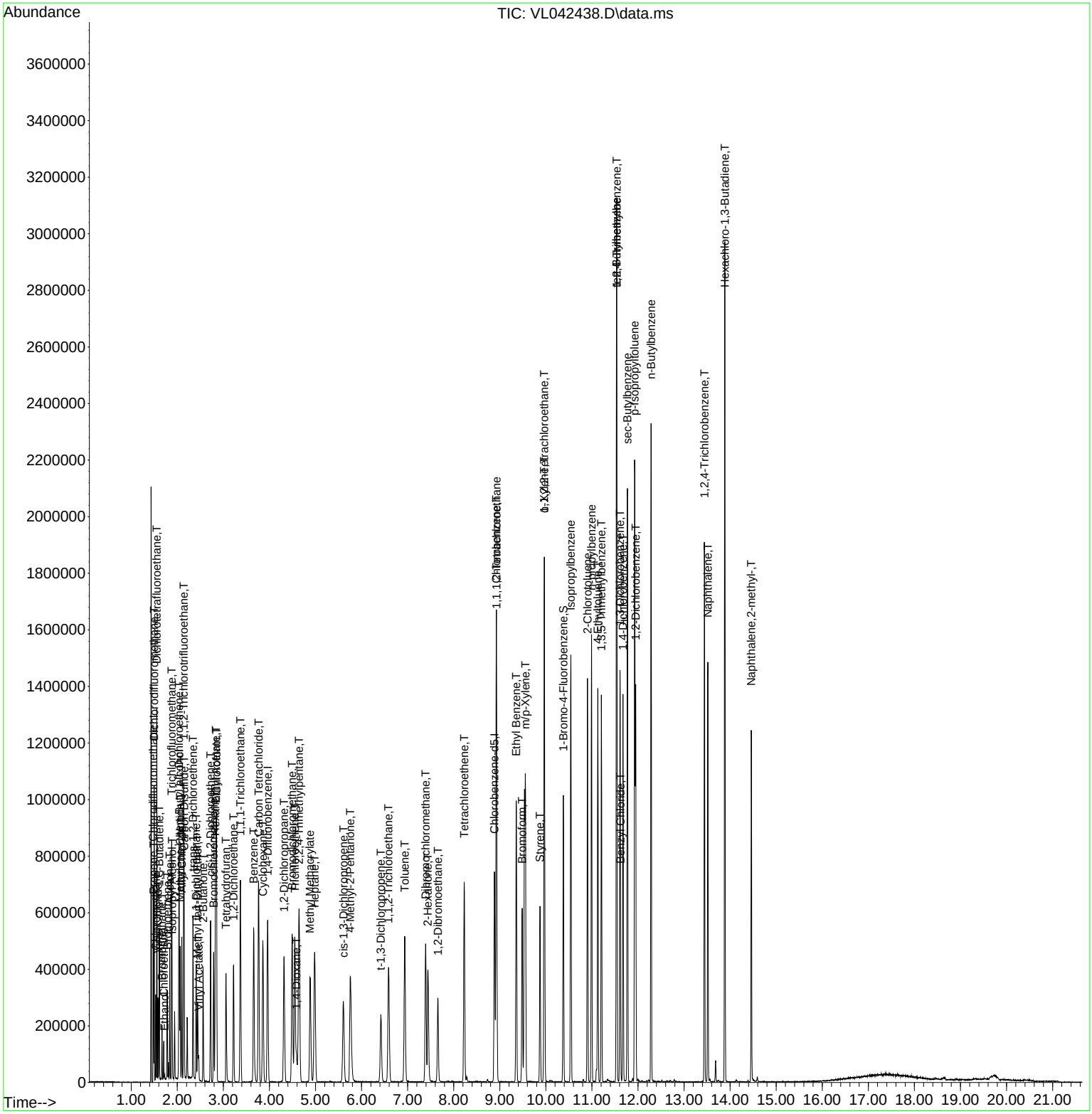
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
Data File : VL042438.D
Acq On : 29 Apr 2025 10:08
Operator : SY/MD
Sample : VL0429ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

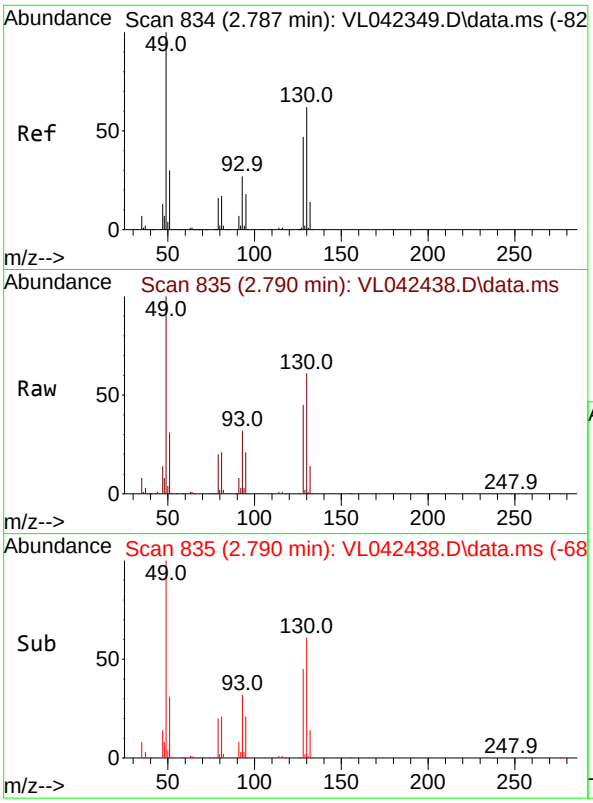
Quant Time: Apr 30 01:17:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025






#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

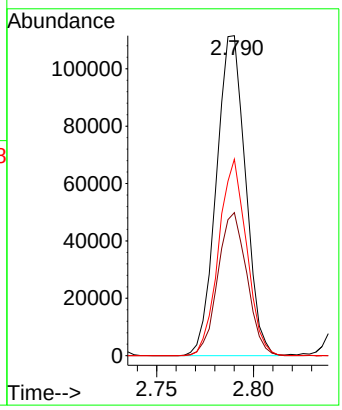
Tgt Ion: 49 Resp: 11677

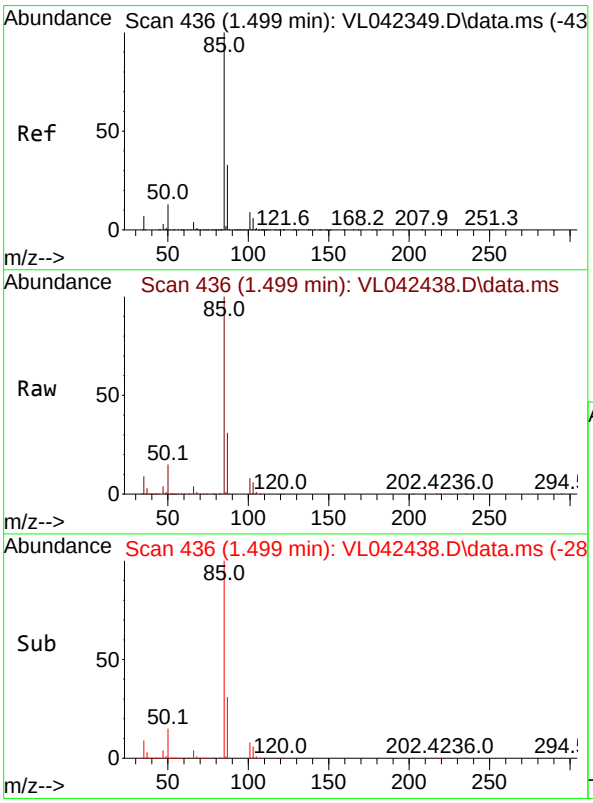
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 44.5 | 22.8 | 68.4 |
| 130 | 58.8 | 29.3 | 88.0 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

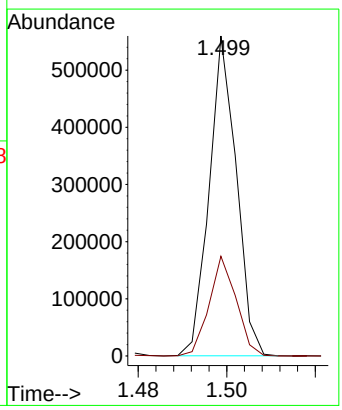


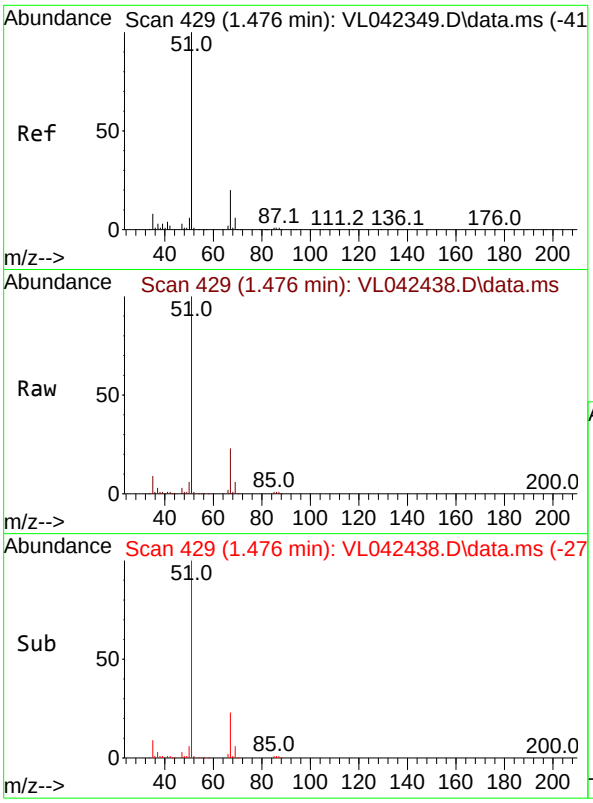




#2
Dichlorodifluoromethane
Concen: 11.562 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 85 Resp: 238539

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.2 | 26.6 | 39.8 |

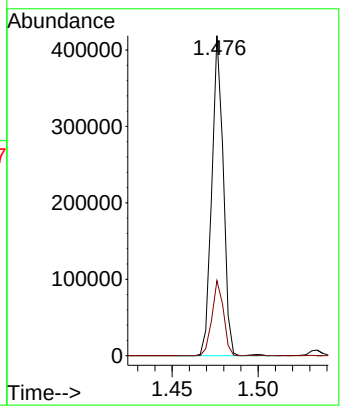





#3
Chlorodifluoromethane
Concen: 9.807 ppbv
RT: 1.476 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 51 Resp: 19267

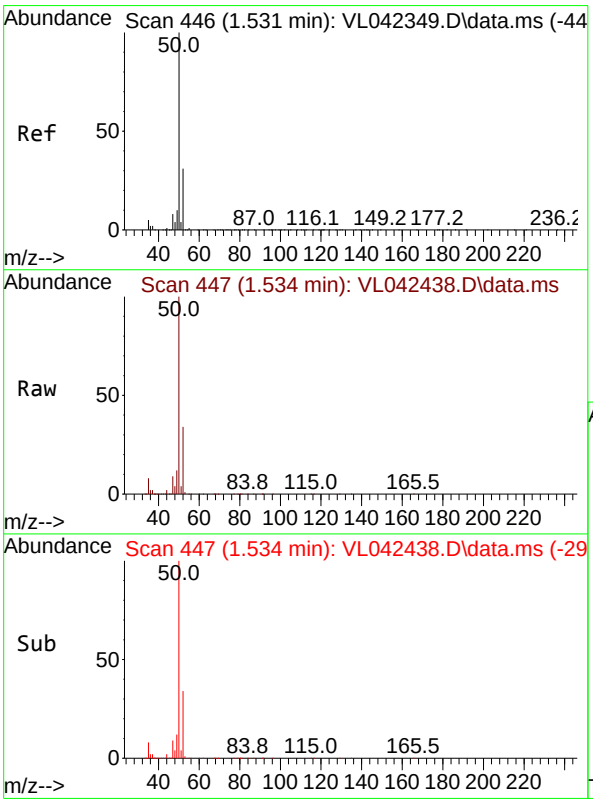
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 23.8 | 16.2 | 24.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

**Manual Integrations**
**APPROVED**

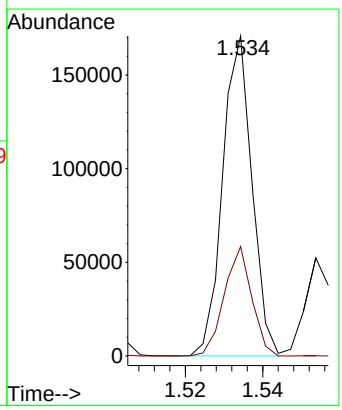
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

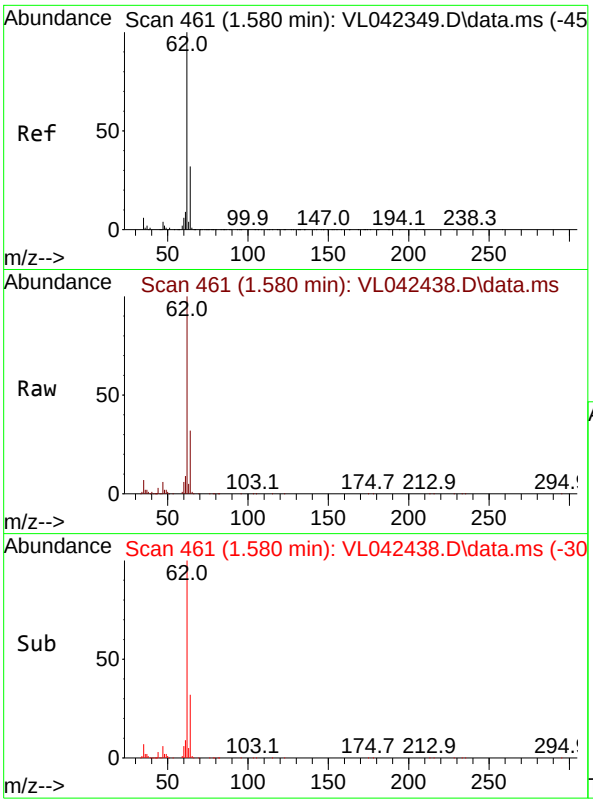



#4
Chloromethane
Concen: 11.003 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 50 Resp: 89832

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 34.2 | 24.7 | 37.1 |

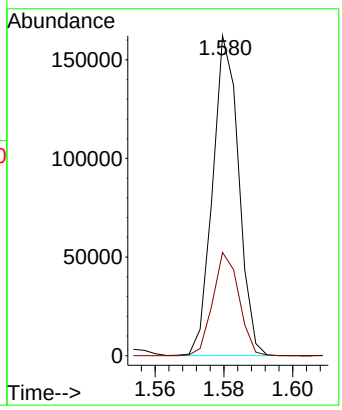





#5
Vinyl Chloride
Concen: 9.601 ppbv
RT: 1.580 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 62 Resp: 8533

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.3 | 25.4 | 38.0 |

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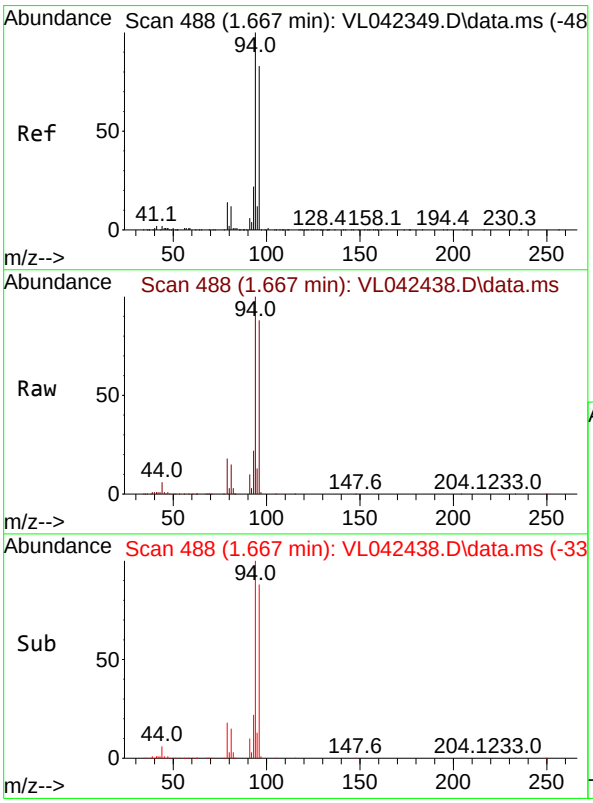
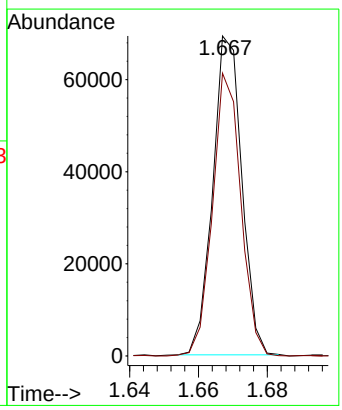
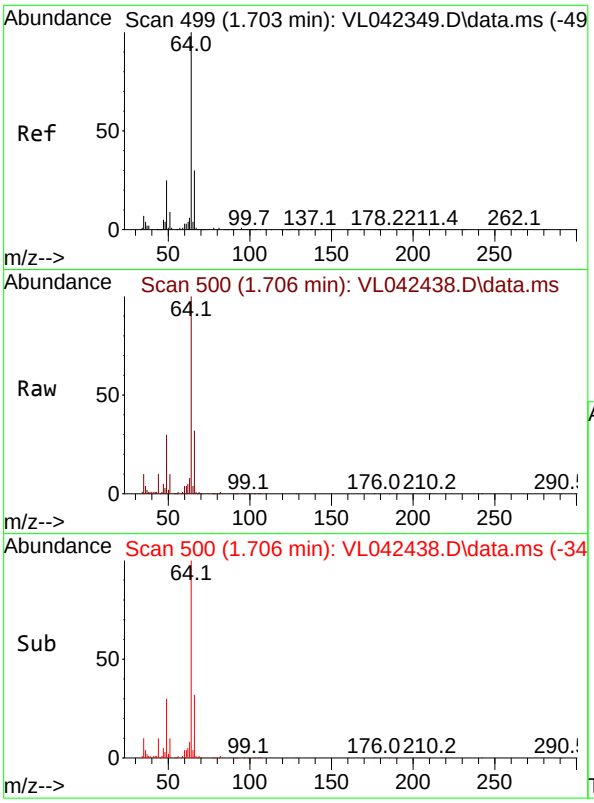



#6
Bromomethane
Concen: 10.676 ppbv
RT: 1.667 min Scan# 488
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 94 Resp: 40758

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 88.5 | 66.2 | 99.2 |

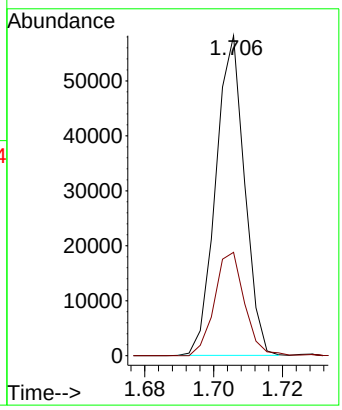





#7
Chloroethane
Concen: 10.502 ppbv
RT: 1.706 min Scan# 5(
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 64 Resp: 3375(

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.3 | 24.6 | 37.0 |

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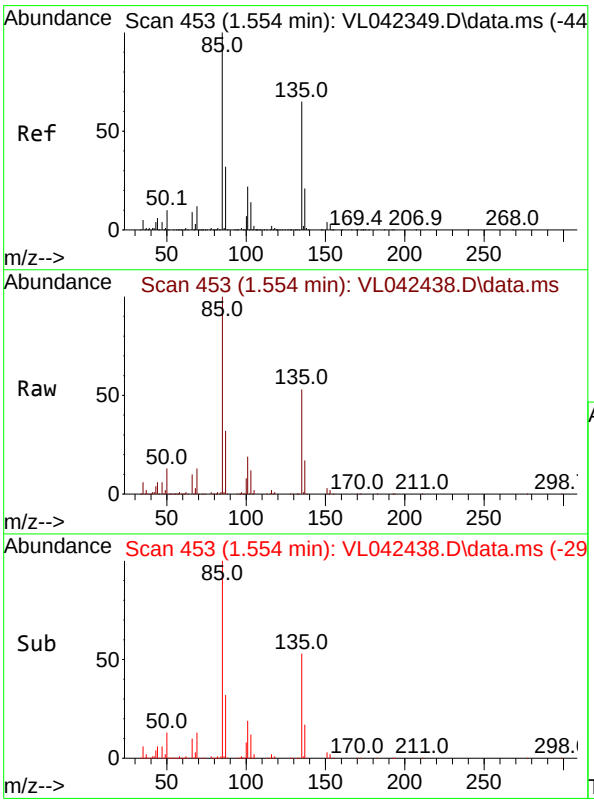
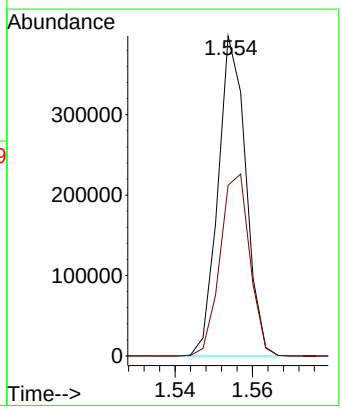
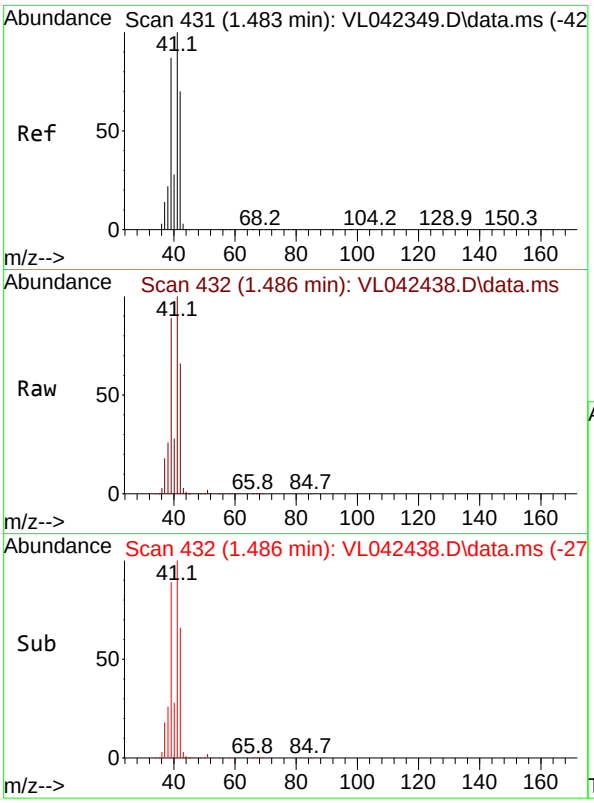



#8
Dichlorotetrafluoroethane
Concen: 11.184 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 85 Resp: 198106

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 61.2 | 52.2 | 78.2 |

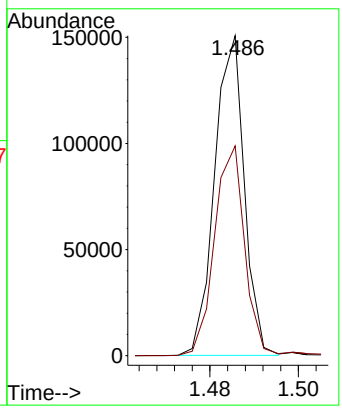





#9
Propene
Concen: 7.836 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 41 Resp: 7011

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 67.7 | 56.2 | 84.4 |

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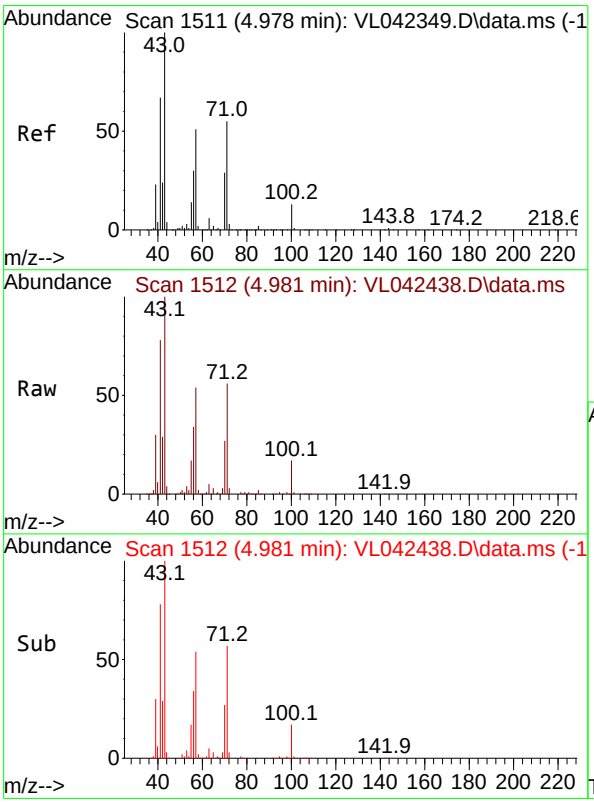
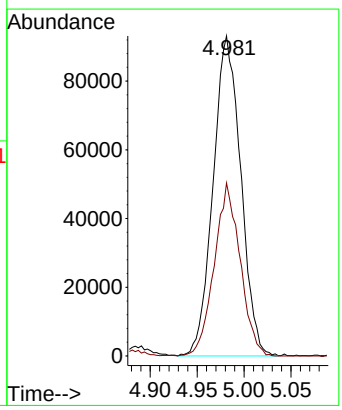
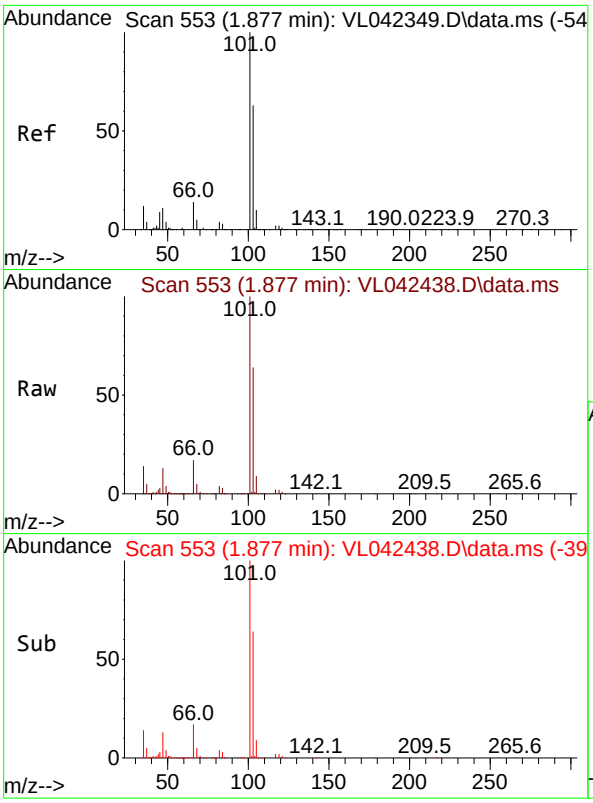



#10
Heptane
Concen: 7.582 ppbv
RT: 4.981 min Scan# 1512
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 43 Resp: 190583

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 50.6 | 39.9 | 59.9 |

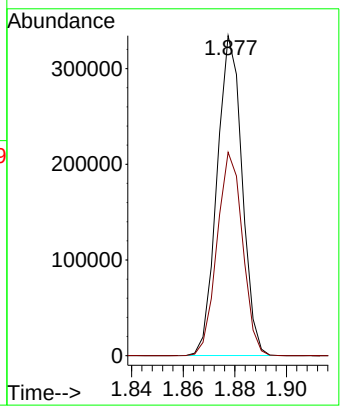





#11
Trichlorofluoromethane
Concen: 11.484 ppbv
RT: 1.877 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion:101 Resp: 22530

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.6 | 50.1 | 75.1 |

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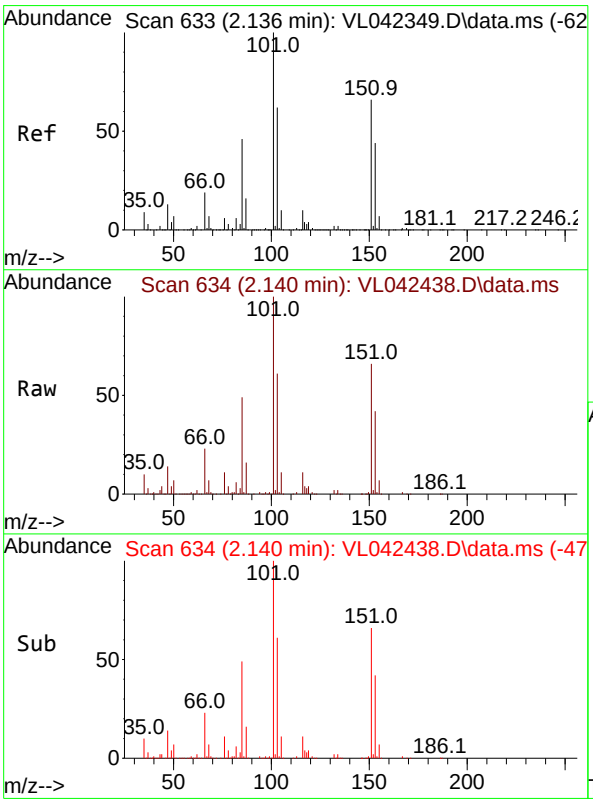
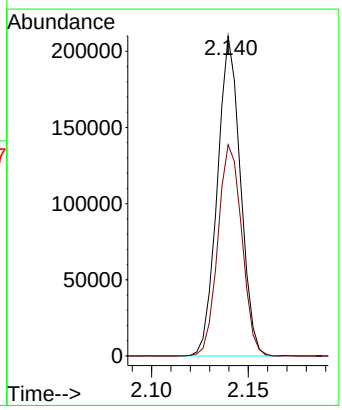
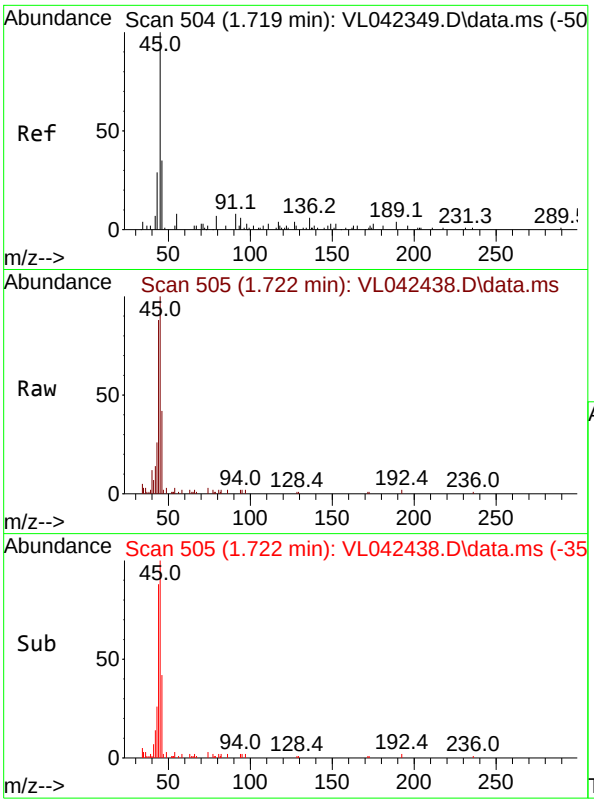



#12
1,1,2-Trichlorotrifluoroethane
Concen: 10.854 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion:101 Resp: 174111

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 68.5 | 57.0 | 85.6 |






#13
Ethanol
Concen: 2.909 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 45 Resp: 413

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 47.5 | 21.9 | 87.7 |

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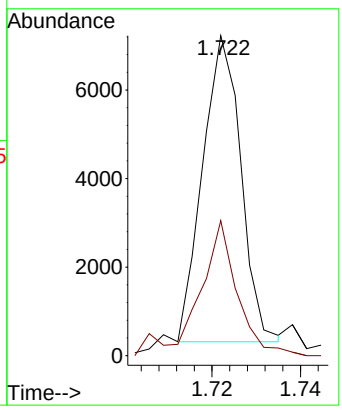
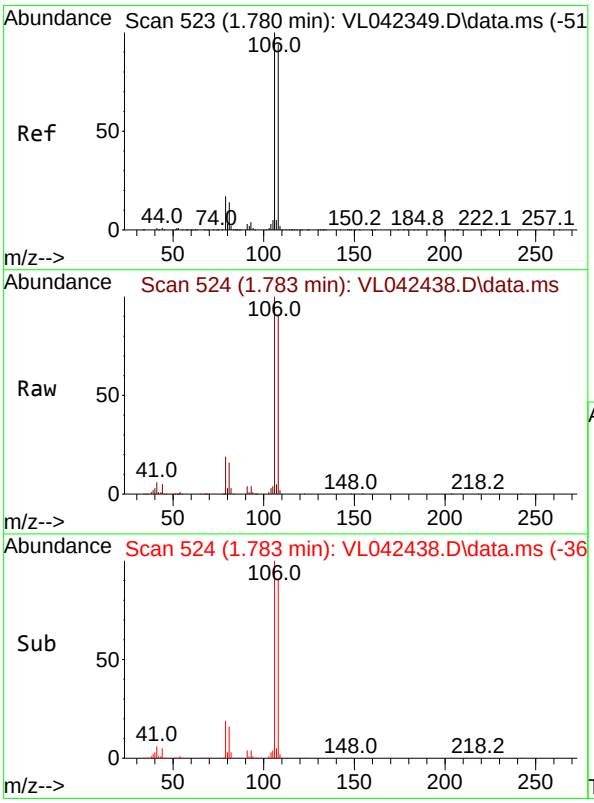
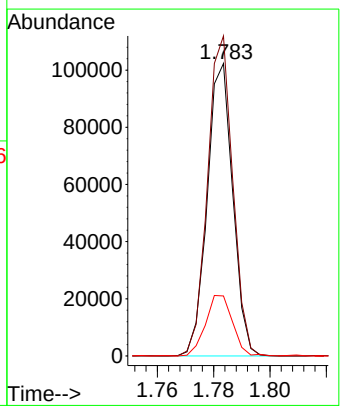


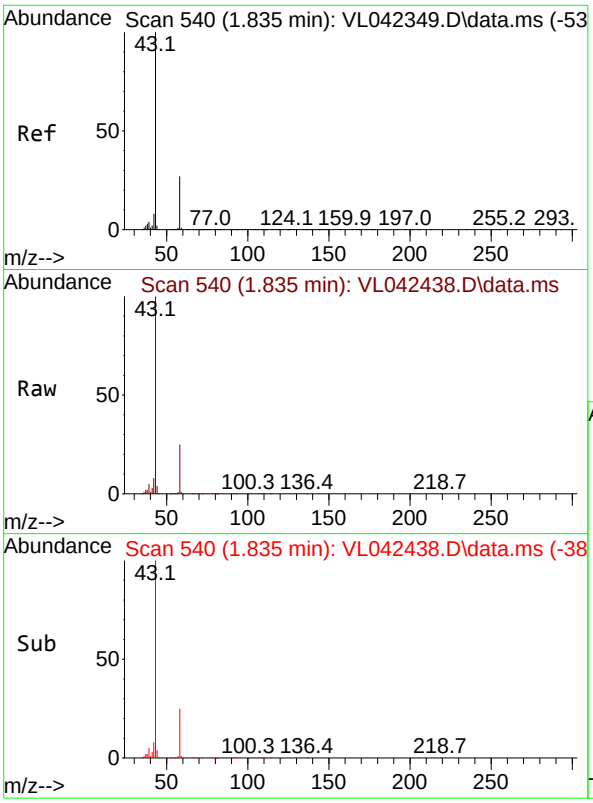




#14
Bromoethene
Concen: 10.674 ppbv
RT: 1.783 min Scan# 524
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion:108 Resp: 64544

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 106 | 108.0 | 85.9 | 128.9 |
| 79 | 22.1 | 13.9 | 20.9# |






#15
Acetone
Concen: 9.910 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 43 Resp: 18943

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 27.1 | 22.4 | 33.6 |

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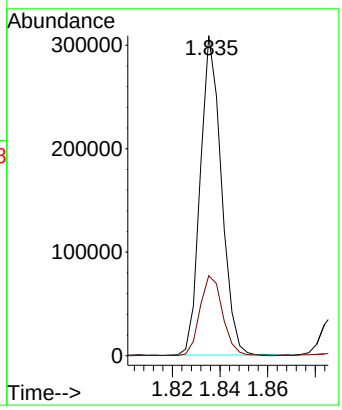
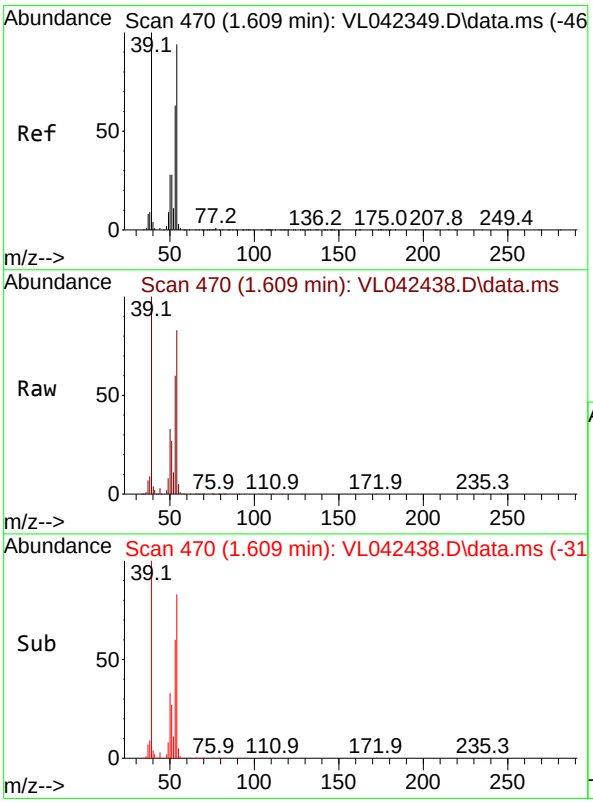
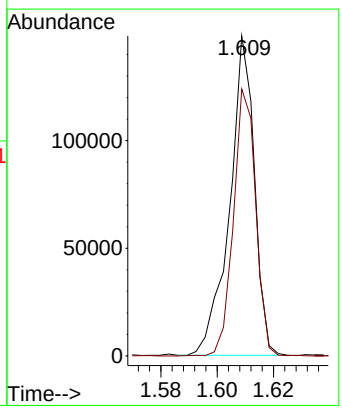


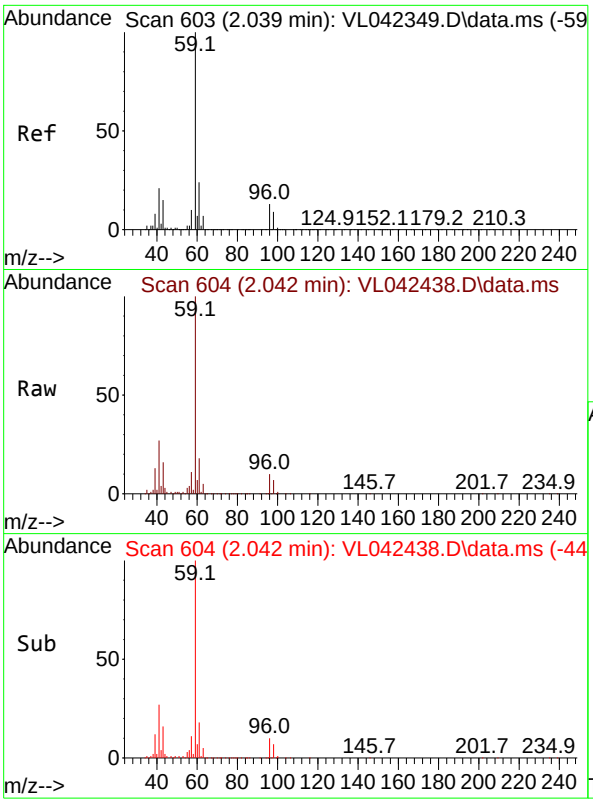




#16
1,3-Butadiene
Concen: 9.895 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 39 Resp: 90473

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 75.1 | 64.9 | 97.3 |

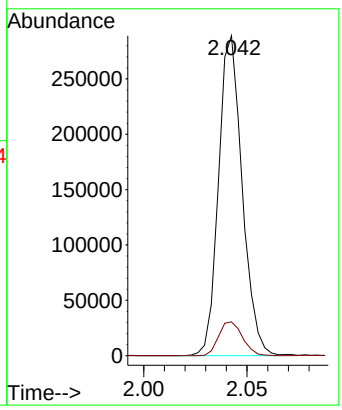





#17
tert-Butyl alcohol
Concen: 9.718 ppbv
RT: 2.042 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 59 Resp: 23021

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.7 | 8.7 | 13.1 |

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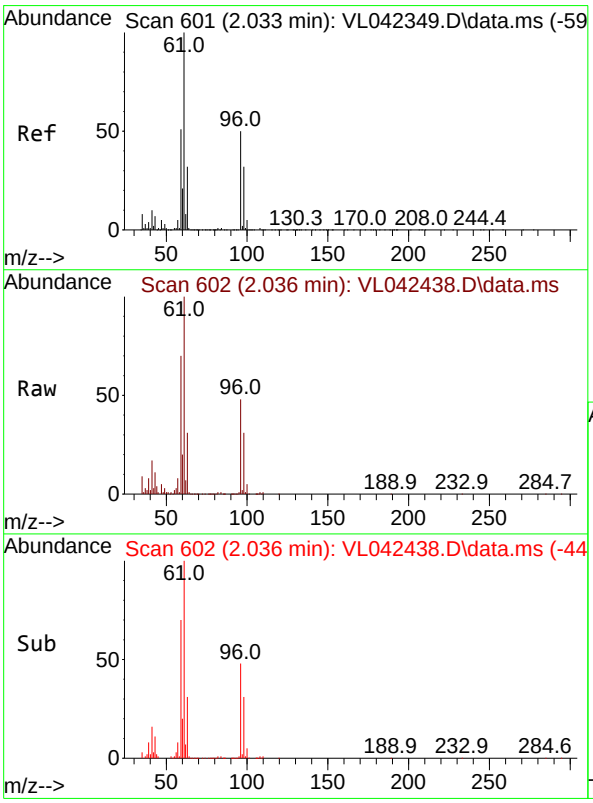
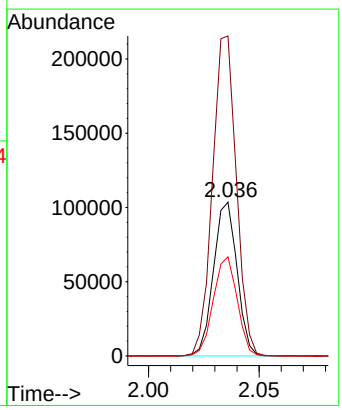
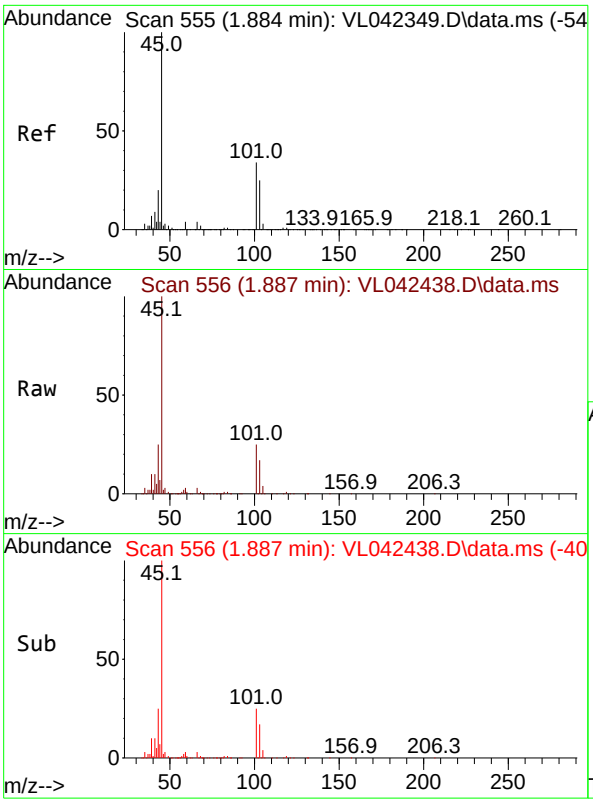



#18
1,1-Dichloroethene
Concen: 10.241 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 96 Resp: 76749

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 208.1 | 160.2 | 240.2 |
| 98 | 64.5 | 51.0 | 76.4 |






#19
Isopropyl Alcohol
Concen: 9.765 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 45 Resp: 10369

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 2.2 | 34.5 | 51.7# |

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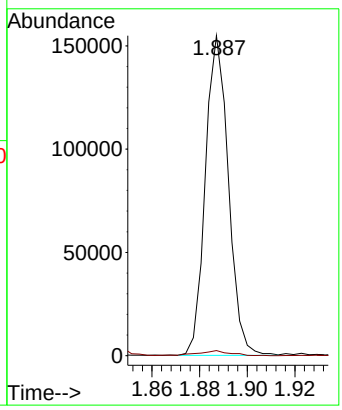
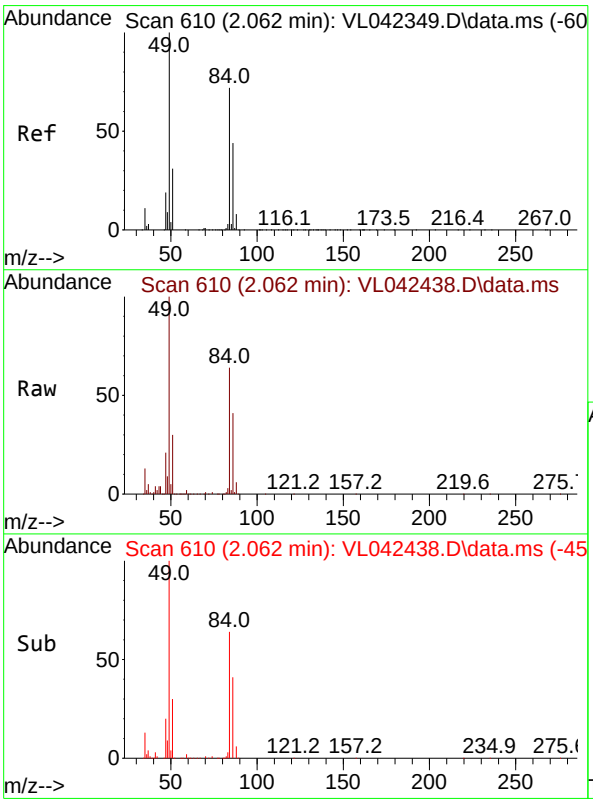
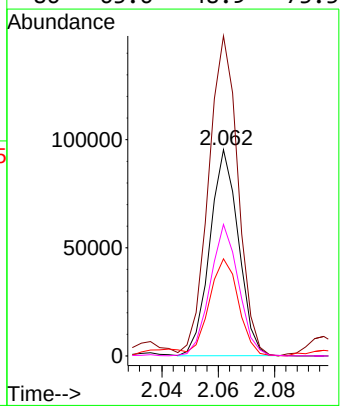


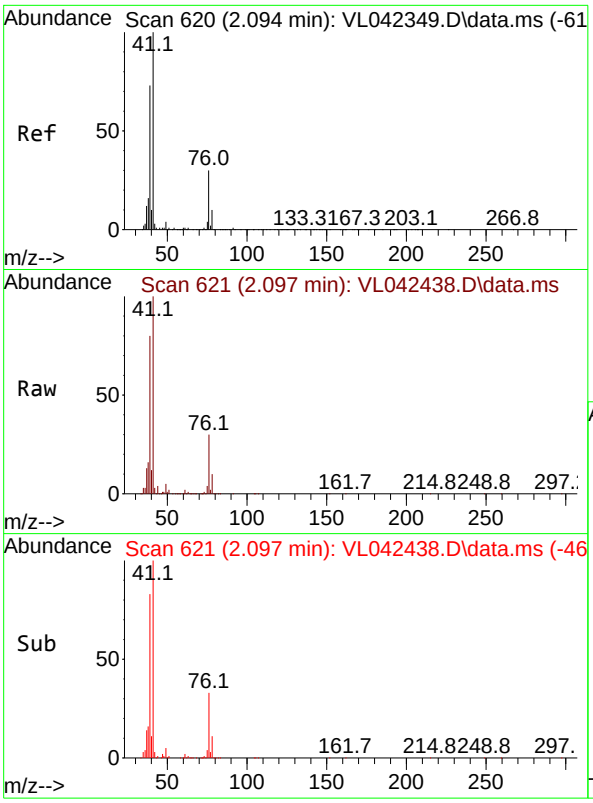




#20
Methylene Chloride
Concen: 8.989 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 84 Resp: 67298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 155.2 | 111.6 | 167.4 |
| 51 | 47.0 | 35.1 | 52.7 |
| 86 | 63.6 | 48.9 | 73.3 |






#21
Allyl Chloride
Concen: 9.851 ppbv
RT: 2.097 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 41 Resp: 13001

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 29.2 | 24.8 | 37.2 |
| 39 | 80.1 | 60.6 | 90.8 |

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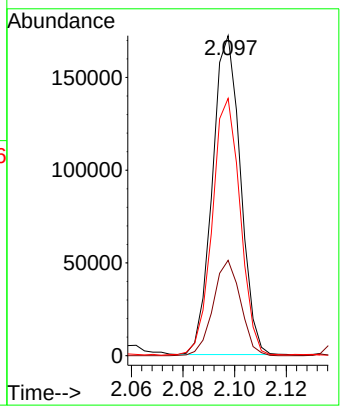
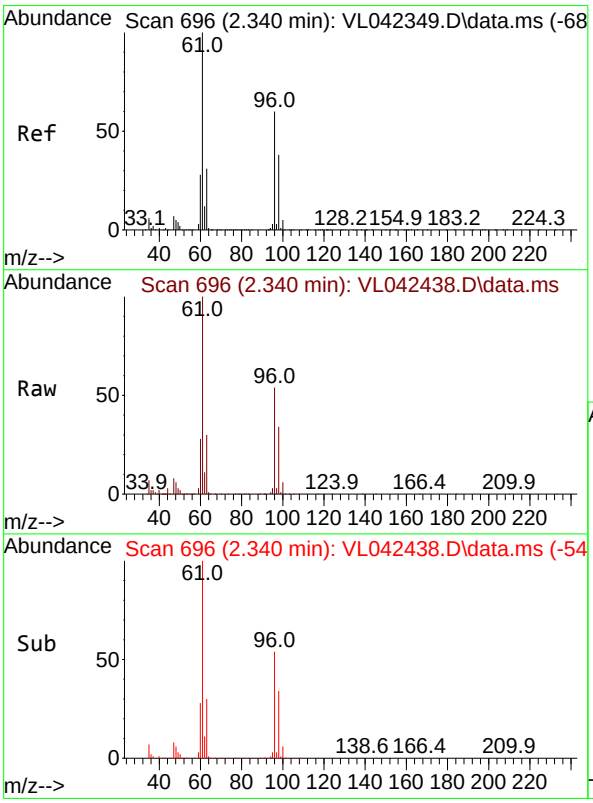
Supervised By :Mahesh Dadoda 04/30/2025

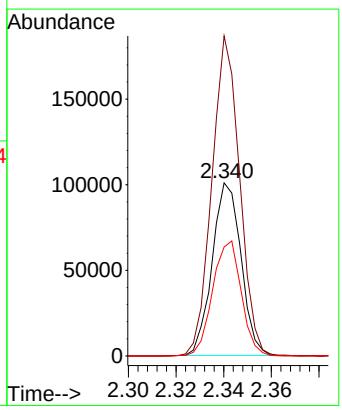


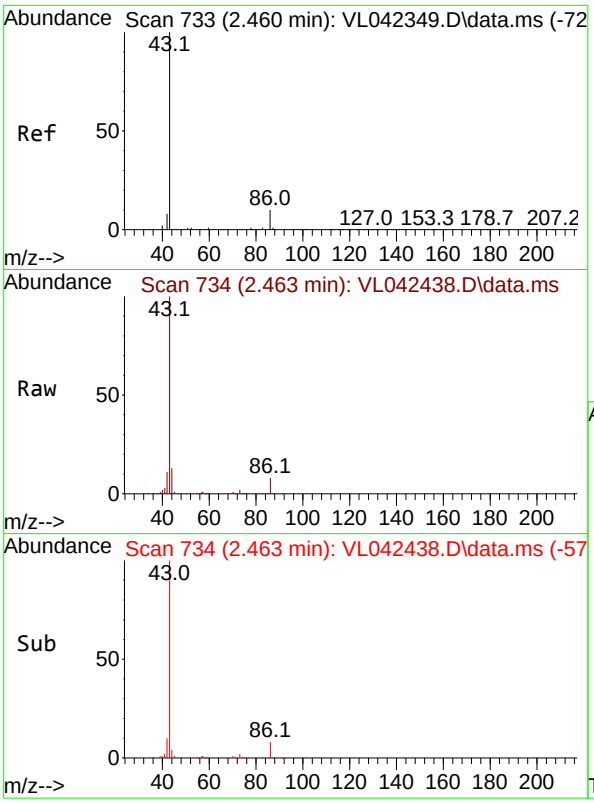




#22
trans-1,2-Dichloroethene
Concen: 9.938 ppbv
RT: 2.340 min Scan# 696
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 96 Resp: 84797

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 185.1 | 133.7 | 200.5 |
| 98 | 63.1 | 50.3 | 75.5 |

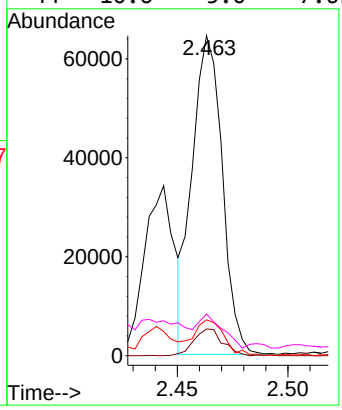





#23
Vinyl Acetate
Concen: 7.888 ppbv
RT: 2.463 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 43 Resp: 6103

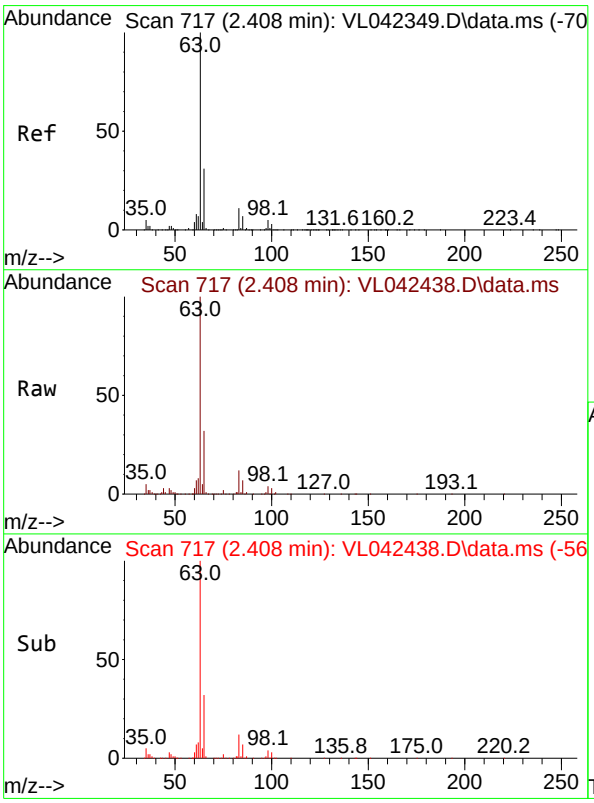
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 8.4 | 6.5 | 9.7 |
| 42 | 11.0 | 7.8 | 11.8 |
| 44 | 10.6 | 5.0 | 7.6# |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

**Manual Integrations**
**APPROVED**

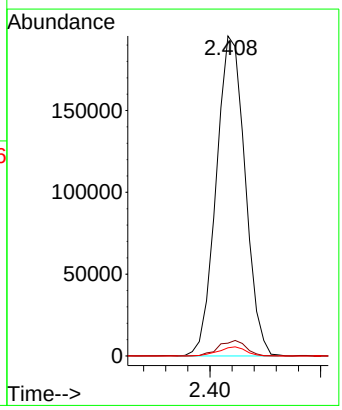
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

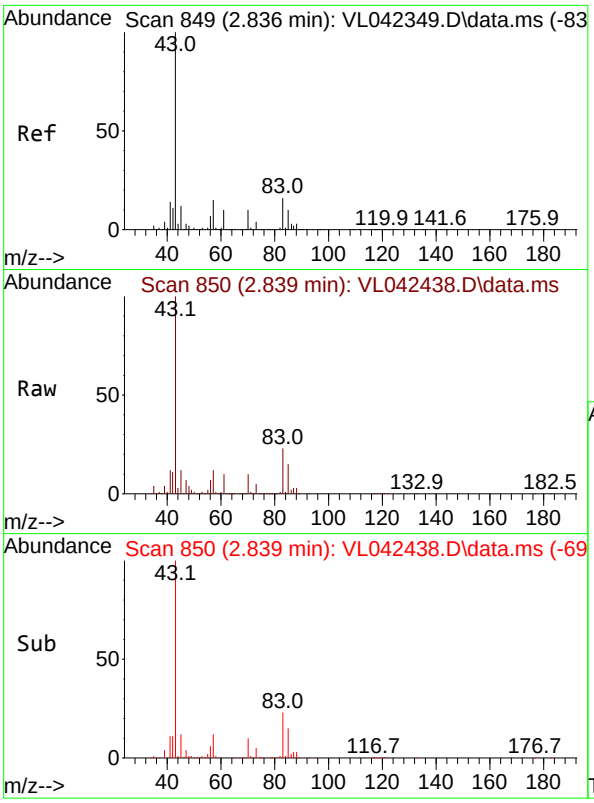



#24
1,1-Dichloroethane
Concen: 10.934 ppbv
RT: 2.408 min Scan# 717
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 63 Resp: 177233

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 4.0 | 2.3 | 6.8 |
| 100 | 2.6 | 1.6 | 4.8 |

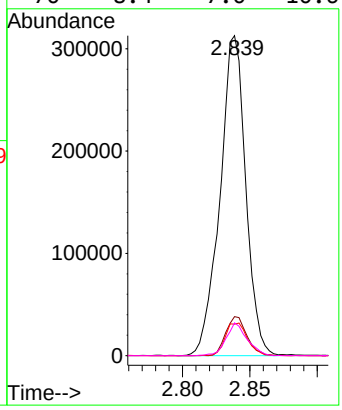





#25
Ethyl Acetate
Concen: 8.836 ppbv
RT: 2.839 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 43 Resp: 41646

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 10.0 | 8.3 | 12.5 |
| 61 | 8.8 | 7.3 | 10.9 |
| 70 | 8.4 | 7.0 | 10.6 |

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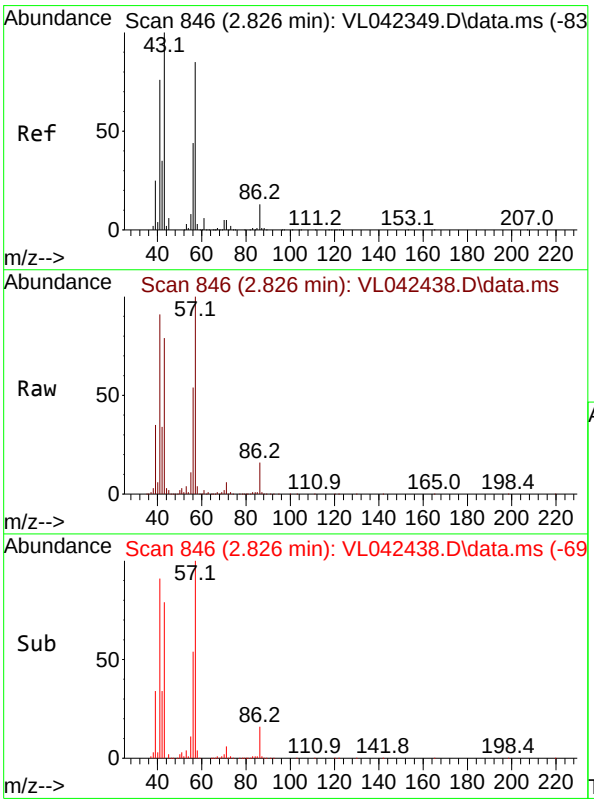
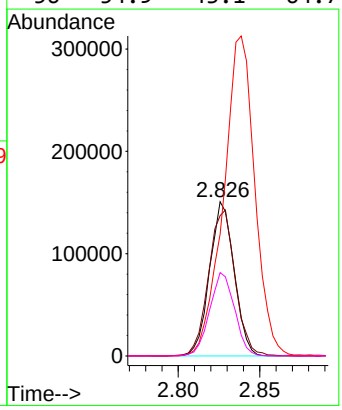
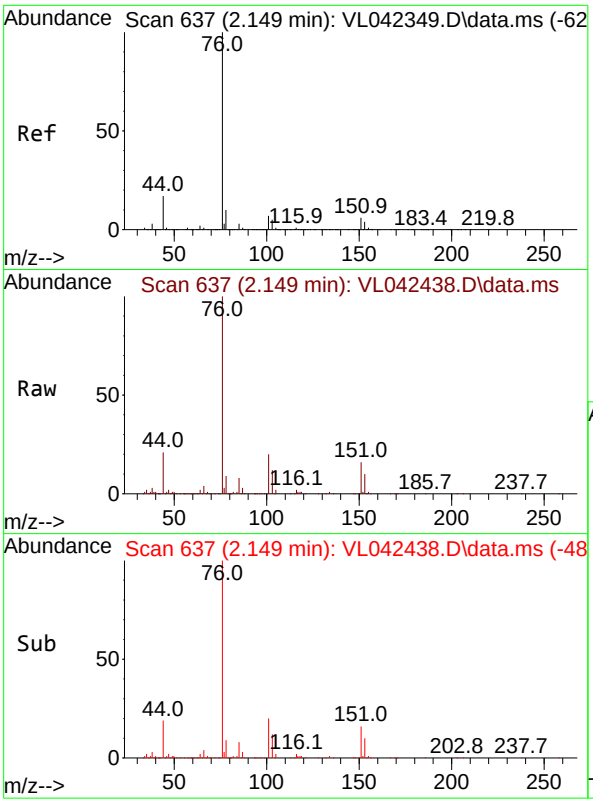



#26
Hexane
Concen: 8.260 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 57 Resp: 157544

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 103.2 | 77.9 | 116.9 |
| 43 | 265.6 | 208.4 | 312.6 |
| 56 | 54.9 | 43.1 | 64.7 |






#27
Carbon Disulfide
Concen: 10.372 ppbv
RT: 2.149 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 76 Resp: 21182

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 19.8 | 15.5 | 23.3 |
| 78 | 11.7 | 9.3 | 13.9 |

**Instrument :**
MSVOA_L
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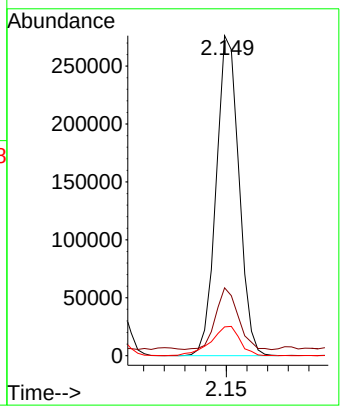
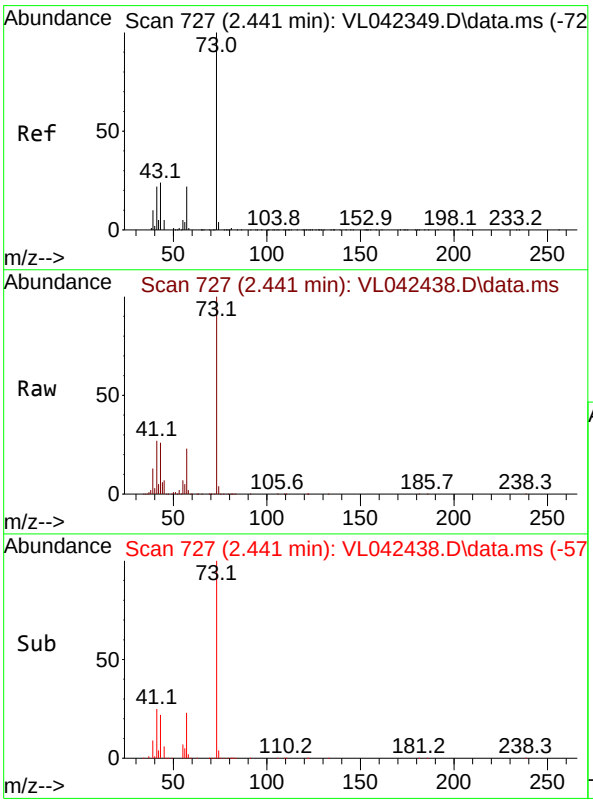
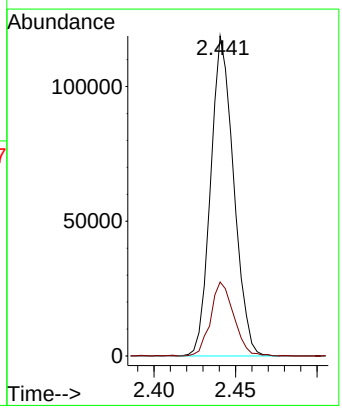


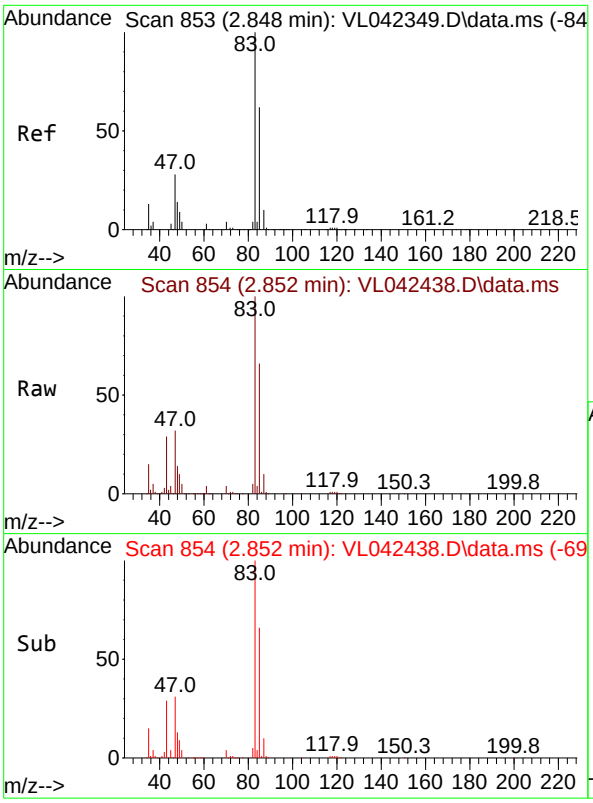




#28
Methyl tert-Butyl Ether
Concen: 9.344 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 73 Resp: 116769

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 23.4 | 21.3 | 31.9 |

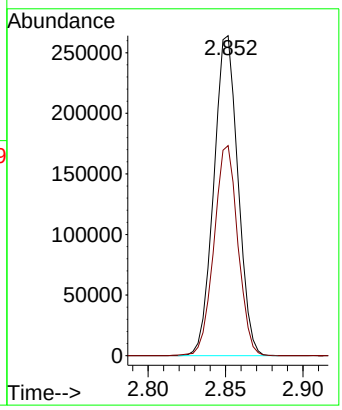





#29
Chloroform
Concen: 10.623 ppbv
RT: 2.852 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 83 Resp: 28639

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.6 | 50.0 | 75.0 |

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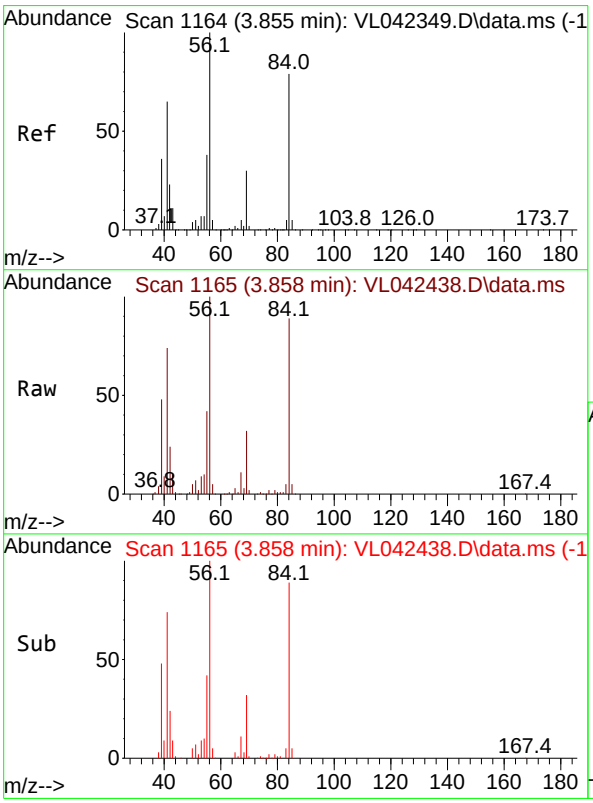
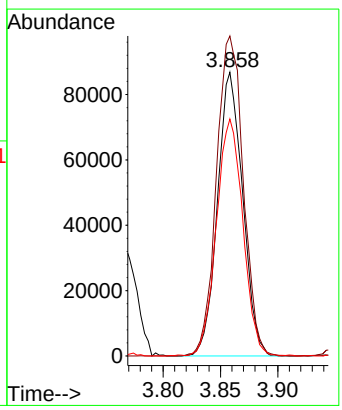
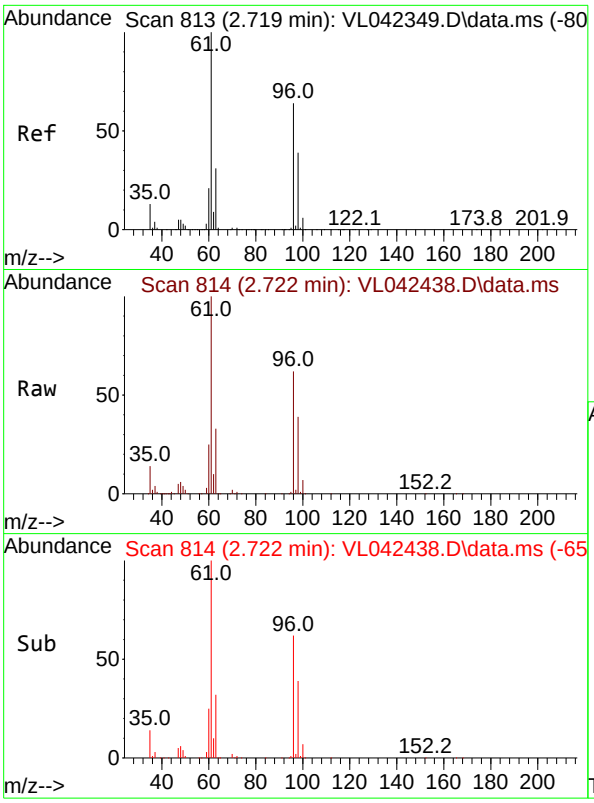



#30
Cyclohexane
Concen: 8.601 ppbv
RT: 3.858 min Scan# 1165
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 84 Resp: 132615

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 119.9 | 101.0 | 151.4 |
| 41 | 88.0 | 67.4 | 101.0 |

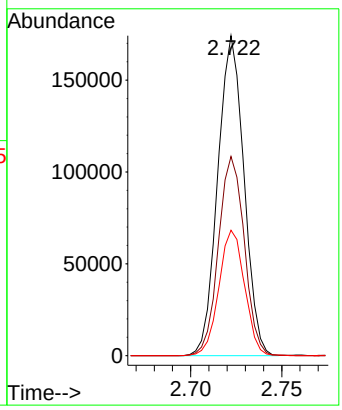





#31
cis-1,2-Dichloroethene
Concen: 9.613 ppbv
RT: 2.722 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 61 Resp: 17432

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 62.3 | 50.8 | 76.2 |
| 98 | 39.2 | 30.9 | 46.3 |

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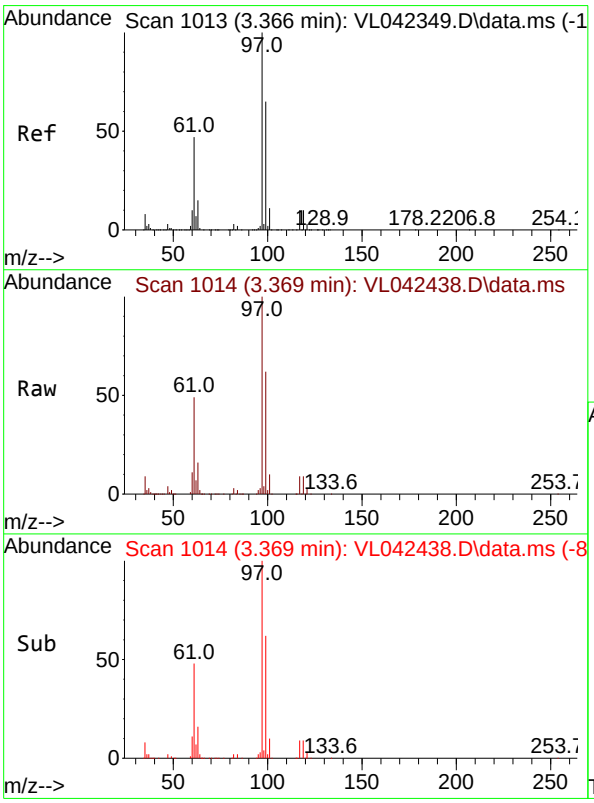
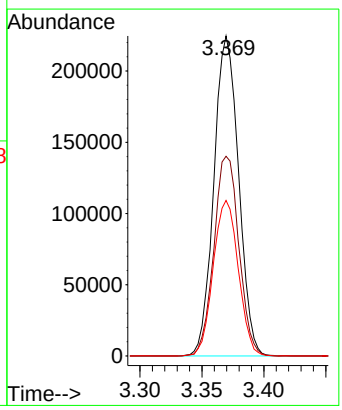
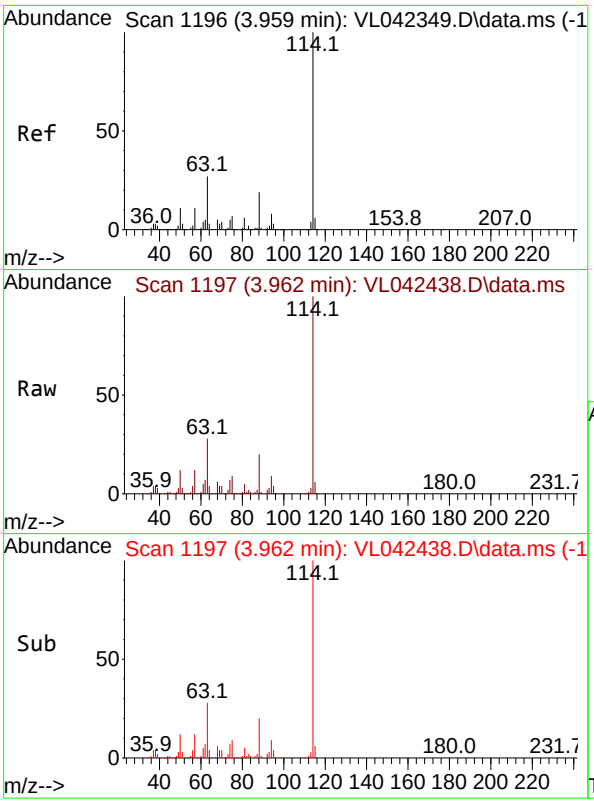



#32
1,1,1-Trichloroethane
Concen: 10.294 ppbv
RT: 3.369 min Scan# 1014
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 97 Resp: 312429

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.2 | 51.0 | 76.4 |
| 61 | 49.4 | 38.8 | 58.2 |

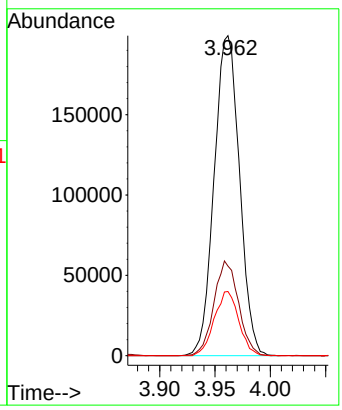





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion:114 Resp: 31759

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 28.7 | 21.8 | 32.6 |
| 88 | 19.4 | 15.5 | 23.3 |




**Instrument :**
MSVOA_L
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VL0429ABS01

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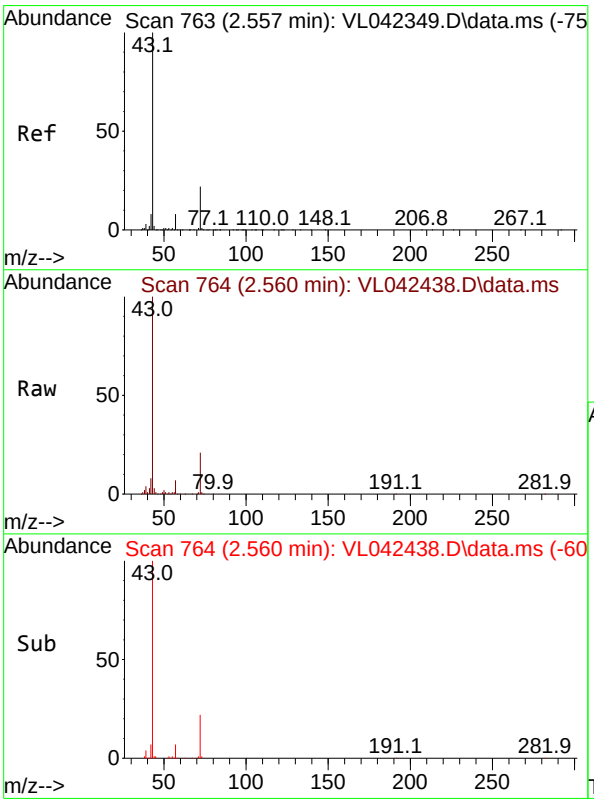
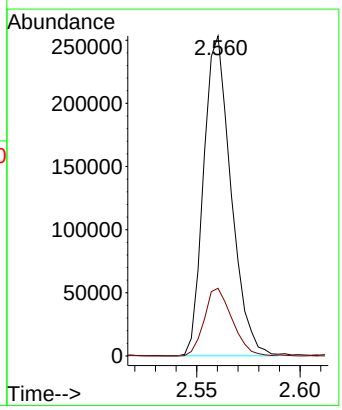
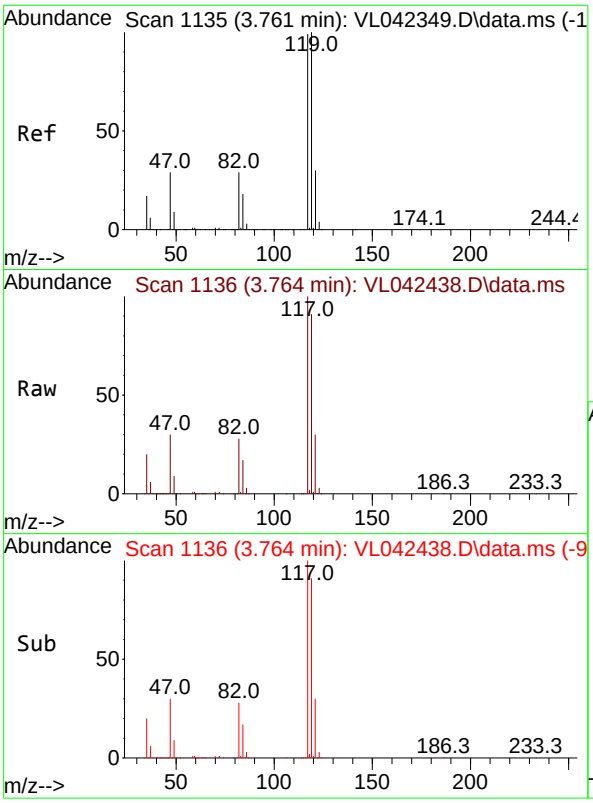



#34
2-Butanone
Concen: 9.278 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 43 Resp: 233037

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 21.7 | 18.2 | 27.2 |

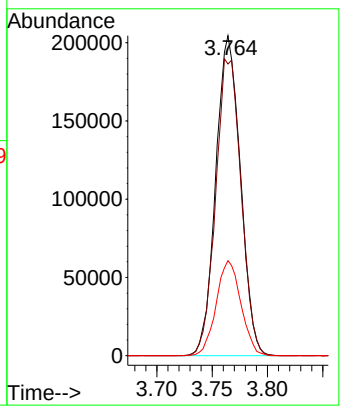





#35
Carbon Tetrachloride
Concen: 11.036 ppbv
RT: 3.764 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion:117 Resp: 31720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 91.1 | 80.5 | 120.7 |
| 121 | 29.7 | 24.2 | 36.2 |

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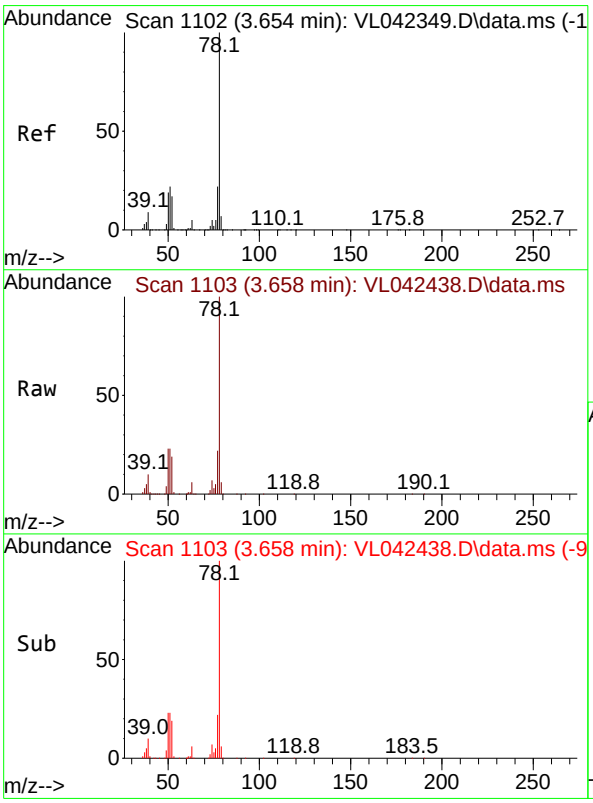
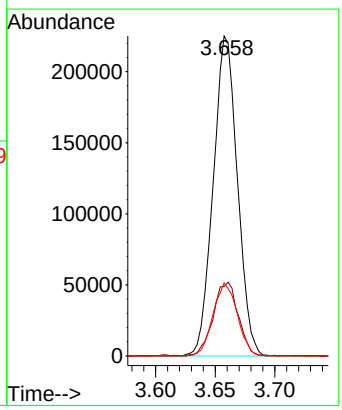
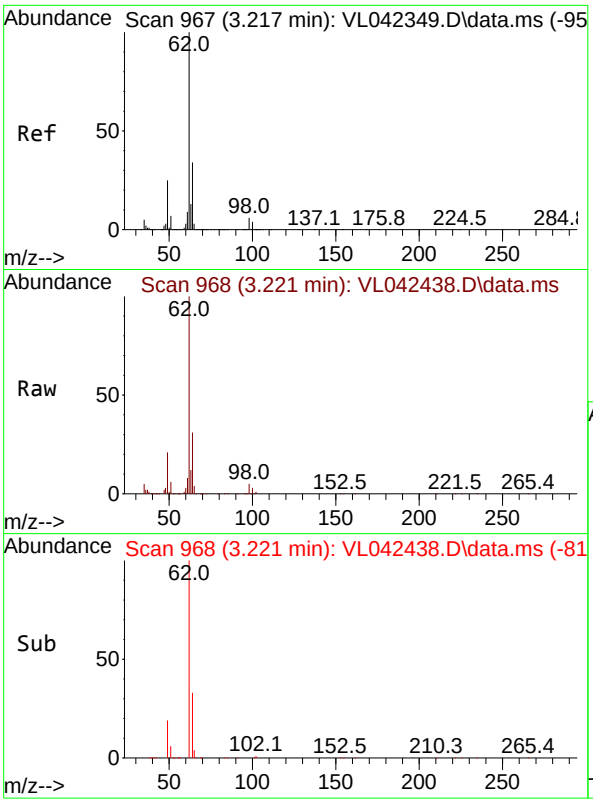



#36
Benzene
Concen: 9.264 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 78 Resp: 317350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 21.7 | 17.4 | 26.0 |
| 50 | 22.8 | 15.5 | 23.3 |






#37
1,2-Dichloroethane
Concen: 12.035 ppbv
RT: 3.221 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 62 Resp: 24744

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 5.0 | 5.1 | 7.7# |

**Instrument :**
MSVOA_L
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VL0429ABS01

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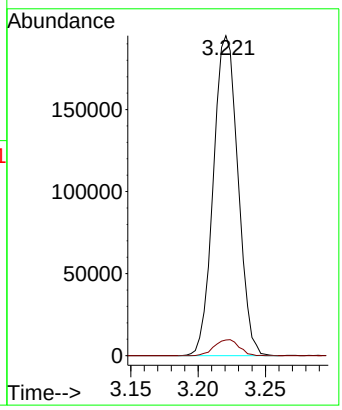
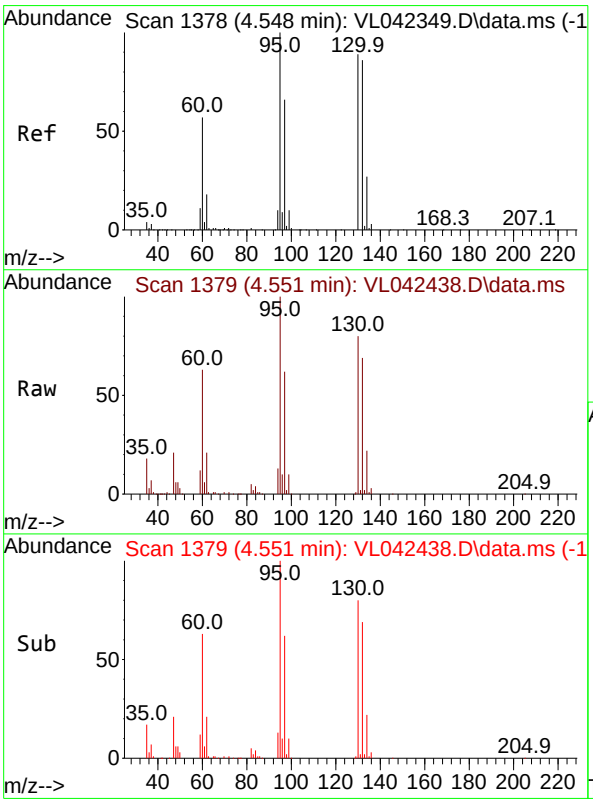
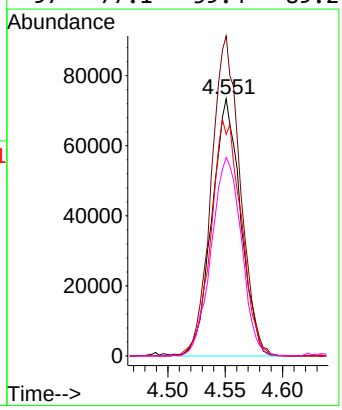


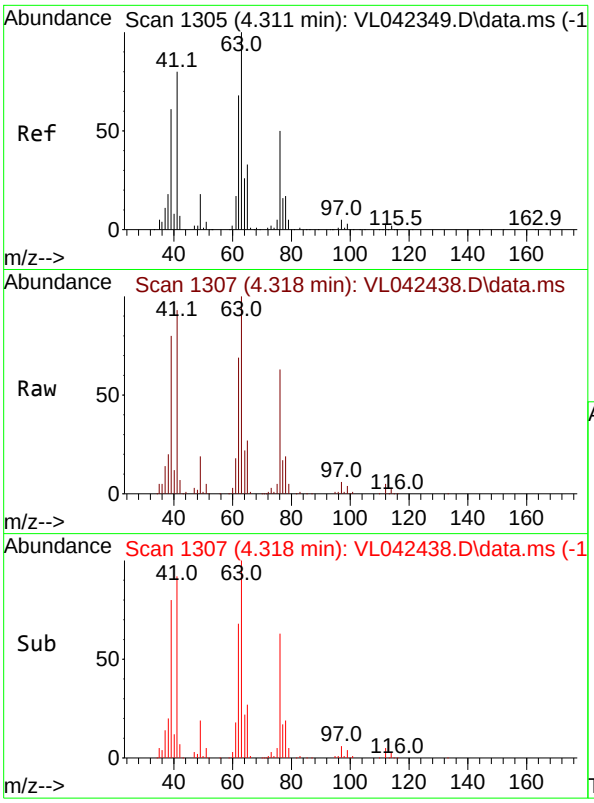




#38
Trichloroethene
Concen: 8.523 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion:130 Resp: 127601

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 124.2 | 89.8 | 134.6 |
| 132 | 86.0 | 77.7 | 116.5 |
| 97 | 77.1 | 59.4 | 89.2 |

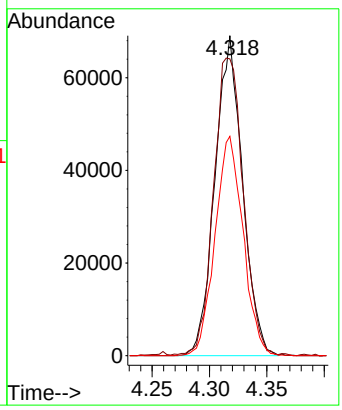





#39
1,2-Dichloropropane
Concen: 9.044 ppbv
RT: 4.318 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 63 Resp: 11544

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 92.4 | 64.2 | 96.2 |
| 62 | 68.4 | 54.3 | 81.5 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

**Manual Integrations**
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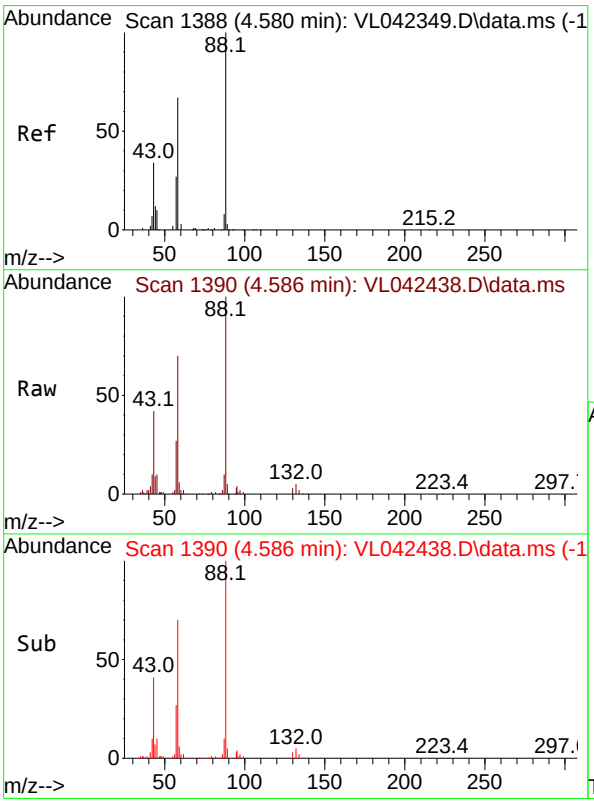
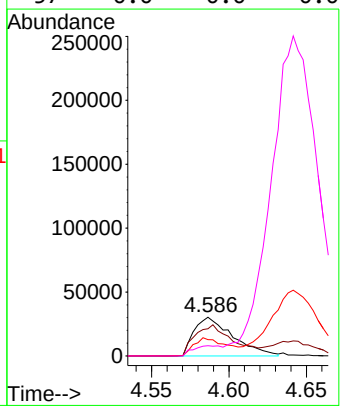
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

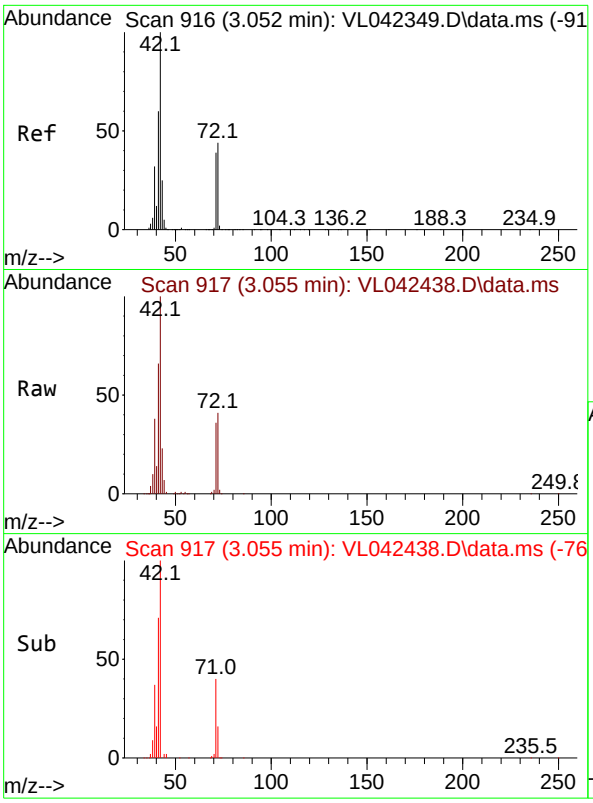



#40
1,4-Dioxane
Concen: 7.529 ppbv
RT: 4.586 min Scan# 1390
Delta R.T. 0.006 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 88 Resp: 52820

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 78.5 | 61.4 | 92.0 |
| 43 | 41.9 | 23.2 | 34.8# |
| 57 | 0.0 | 0.0 | 0.0 |

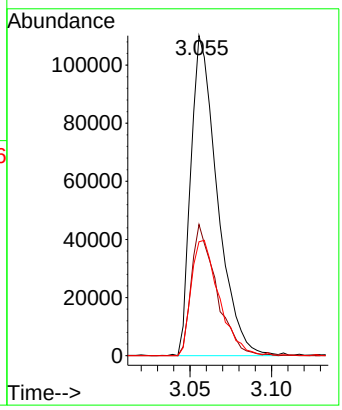





#41
Tetrahydrofuran
Concen: 8.471 ppbv
RT: 3.055 min Scan# 91
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 42 Resp: 12405

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 38.9 | 32.3 | 48.5 |
| 71 | 38.4 | 31.4 | 47.2 |




**Instrument :**
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VL0429ABS01

**Manual Integrations**
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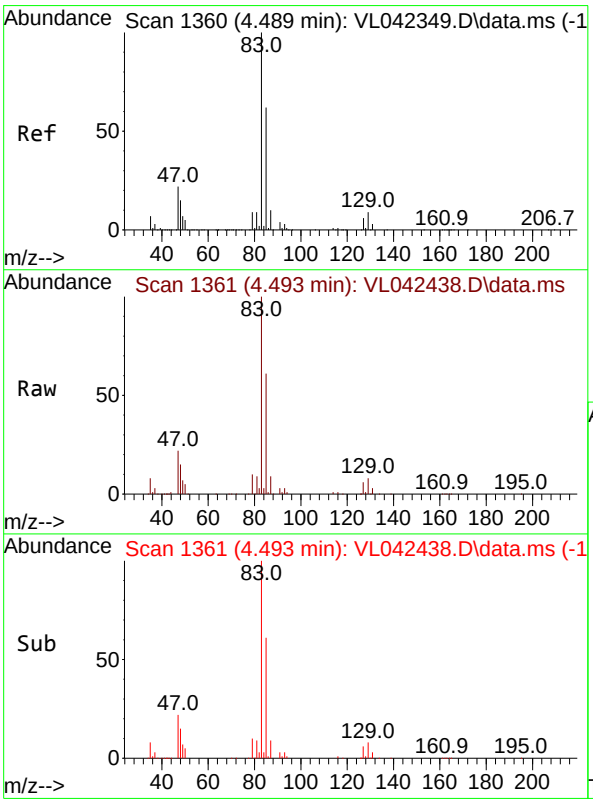
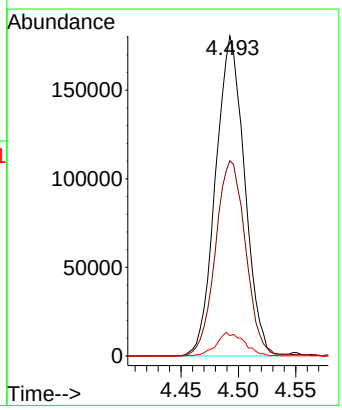
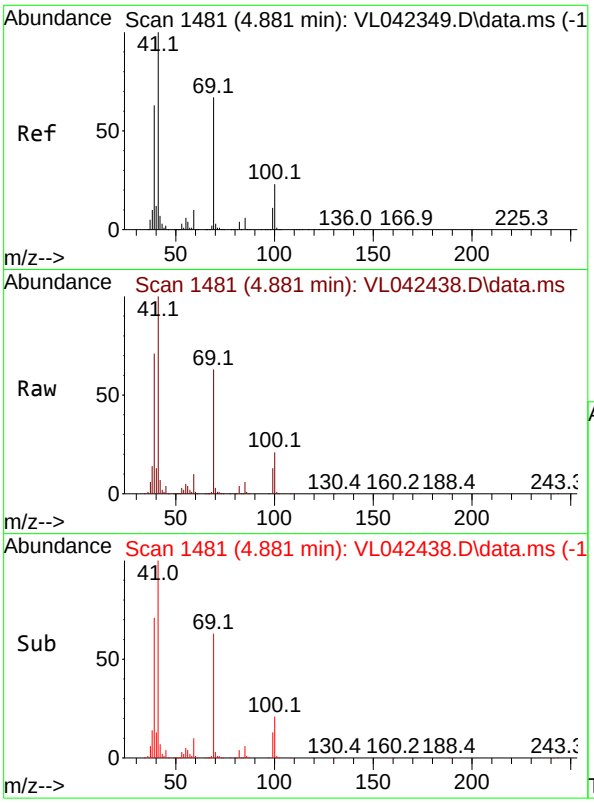



#42
Bromodichloromethane
Concen: 11.088 ppbv
RT: 4.493 min Scan# 1361
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 83 Resp: 317253

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 61.0 | 49.7 | 74.5 |
| 127 | 6.4 | 5.1 | 7.7 |

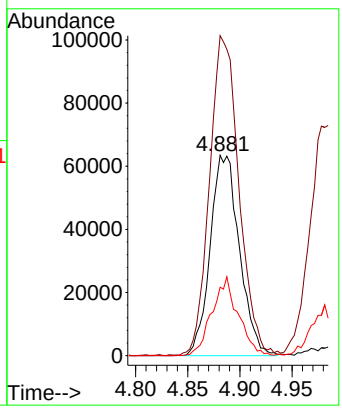





#43
Methyl Methacrylate
Concen: 8.020 ppbv m
RT: 4.881 min Scan# 14
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 69 Resp: 12381

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 0.0 | 118.6 | 177.8# |
| 100 | 35.4 | 28.2 | 42.2 |




**Instrument :**
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**ClientSampleId :**
VL0429ABS01

**Manual Integrations**
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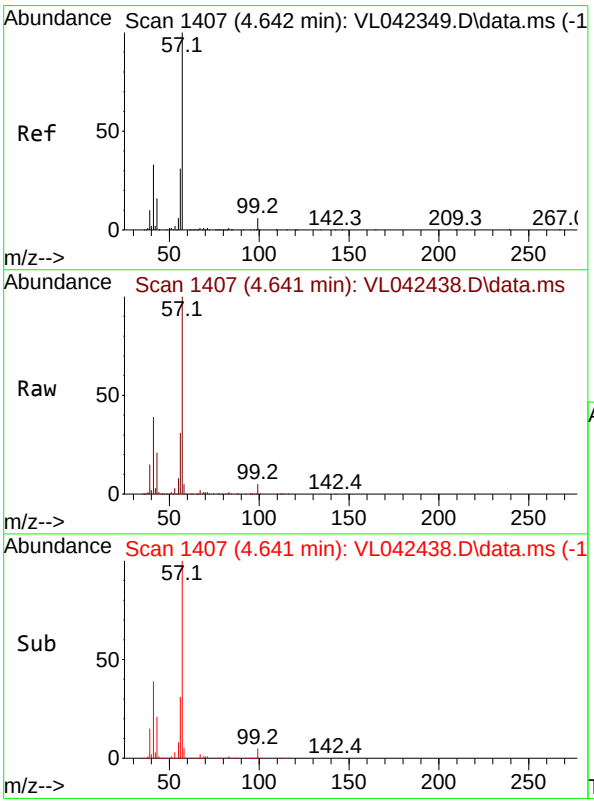
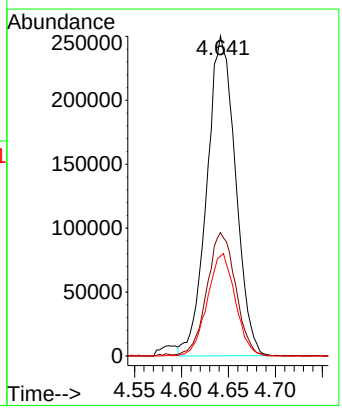
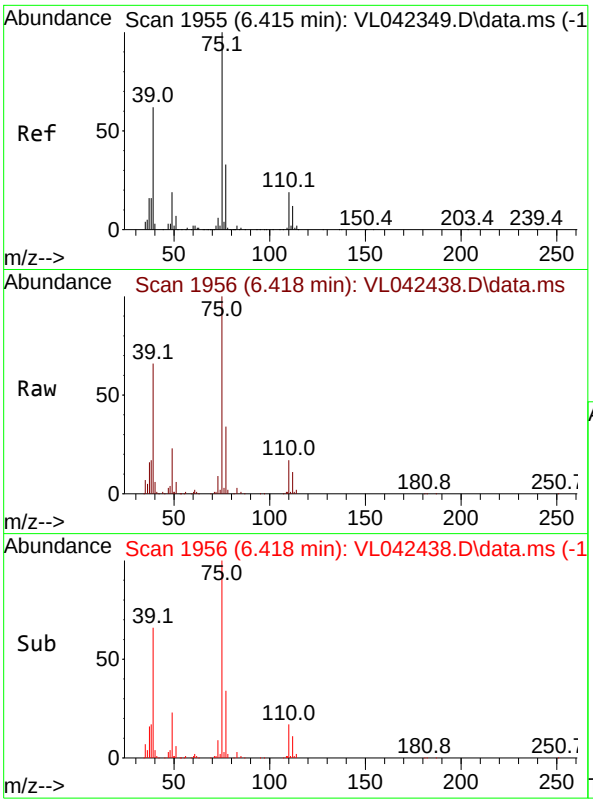



#44
2,2,4-Trimethylpentane
Concen: 8.983 ppbv
RT: 4.641 min Scan# 1407
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 57 Resp: 531439

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 39.1 | 27.2 | 40.8 |
| 56 | 31.1 | 25.7 | 38.5 |

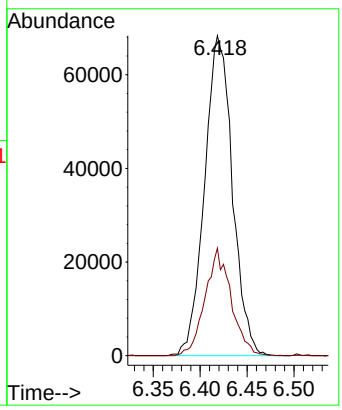





#45
t-1,3-Dichloropropene
Concen: 8.940 ppbv
RT: 6.418 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 75 Resp: 14098

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 33.6 | 27.0 | 40.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

**Manual Integrations**
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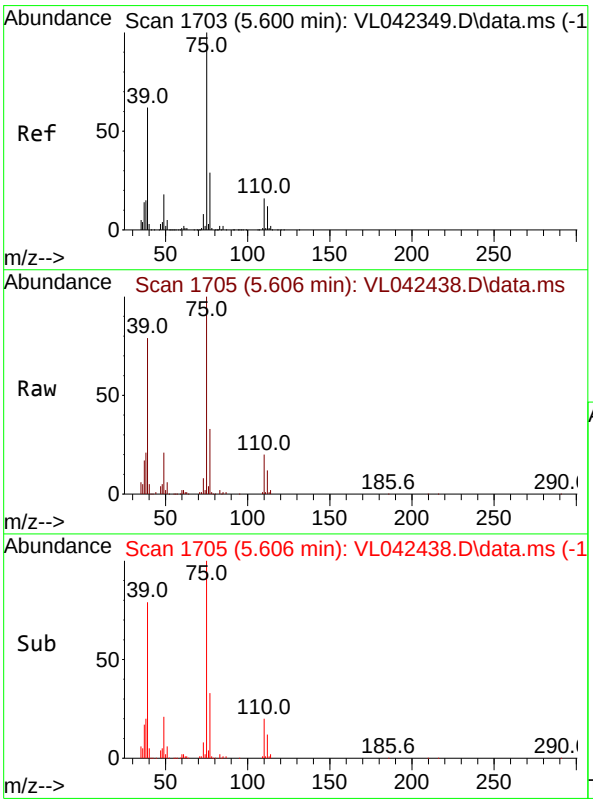
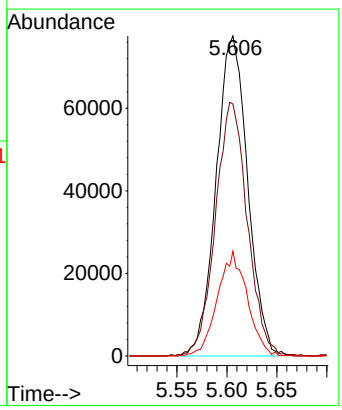
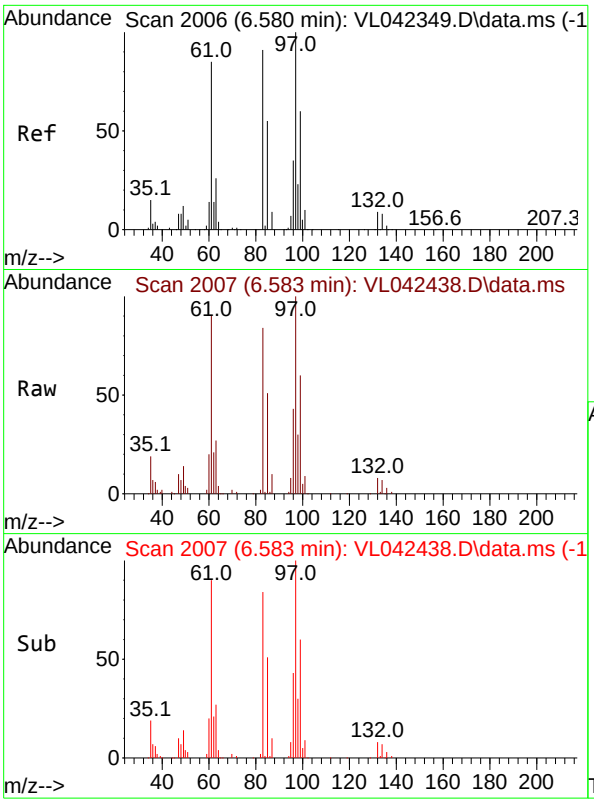



#46
cis-1,3-Dichloropropene
Concen: 8.811 ppbv
RT: 5.606 min Scan# 1705
Delta R.T. 0.006 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 75 Resp: 170063

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 39 | 78.3 | 50.0 | 75.0# |
| 77 | 32.7 | 23.0 | 34.6 |

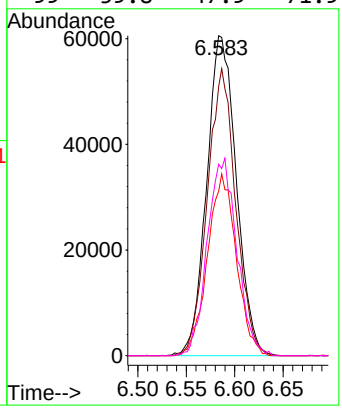





#47
1,1,2-Trichloroethane
Concen: 9.893 ppbv
RT: 6.583 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 97 Resp: 12866

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 84.0 | 72.8 | 109.2 |
| 85 | 51.4 | 44.2 | 66.4 |
| 99 | 59.8 | 47.9 | 71.9 |




**Instrument :**
MSVOA_L
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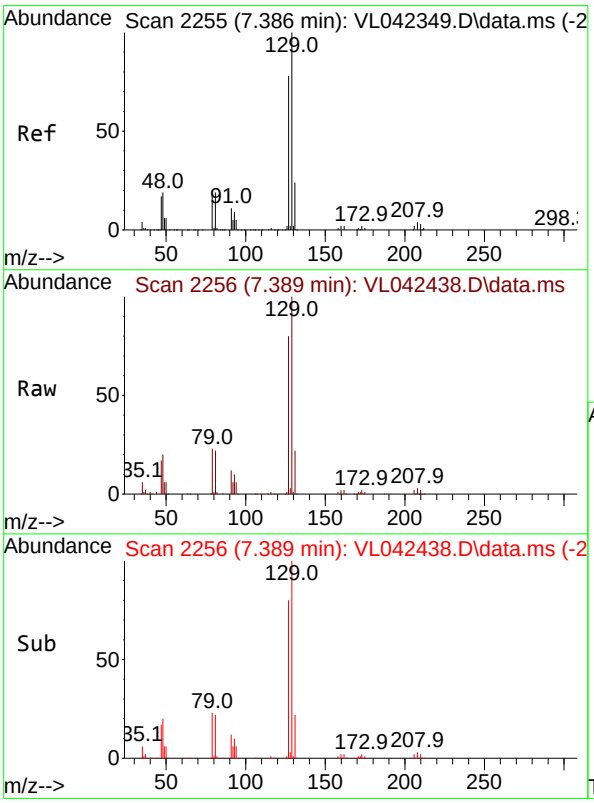
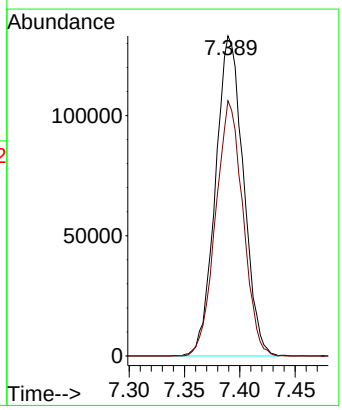
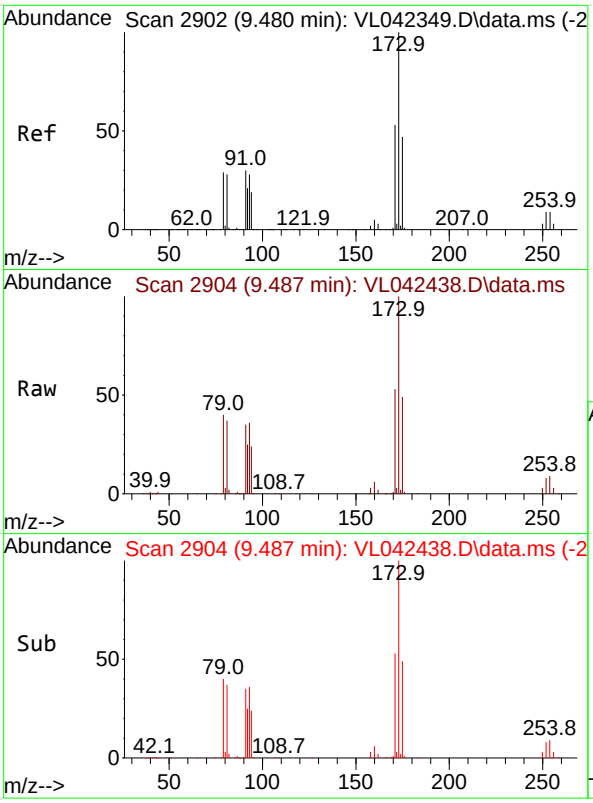



#48
Dibromochloromethane
Concen: 10.156 ppbv
RT: 7.389 min Scan# 2256
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion:129 Resp: 233350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.1 | 39.1 | 117.3 |

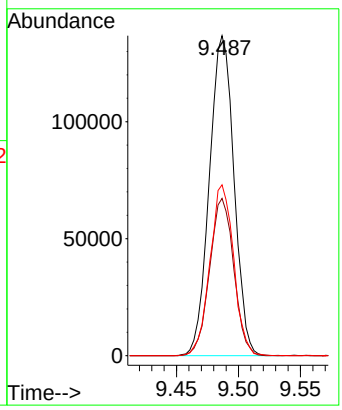





#49
Bromoform
Concen: 9.431 ppbv
RT: 9.487 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion:173 Resp: 18948

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.2 | 38.2 | 57.2 |
| 171 | 51.4 | 40.9 | 61.3 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

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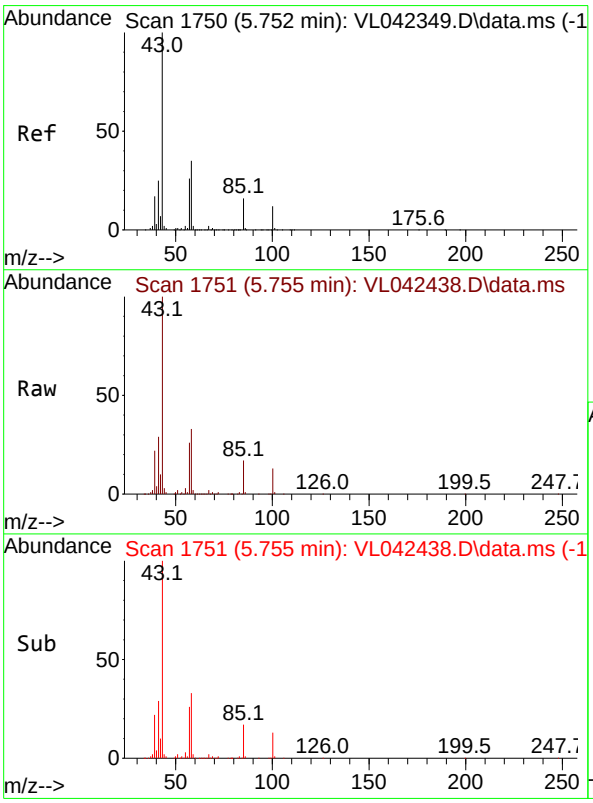
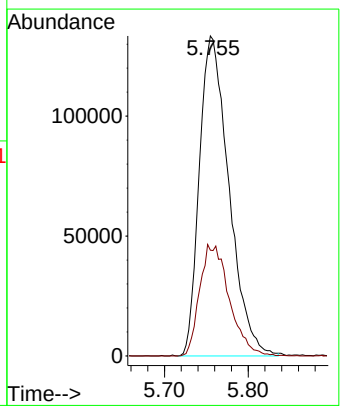
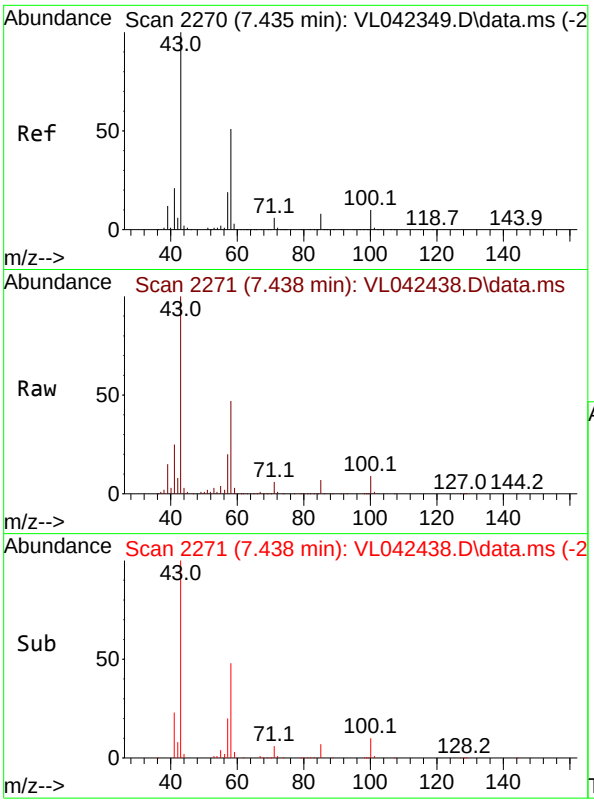



#50
4-Methyl-2-Pentanone
Concen: 7.846 ppbv
RT: 5.755 min Scan# 1751
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 43 Resp: 327508

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 34.9 | 28.6 | 43.0 |

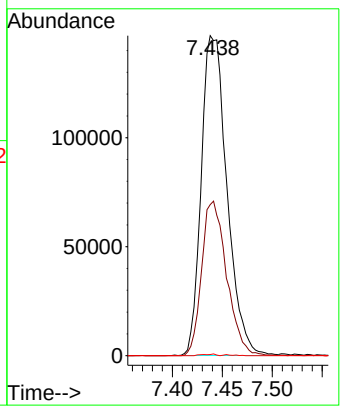





#51
2-Hexanone
Concen: 7.018 ppbv
RT: 7.438 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 43 Resp: 26269

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 47.0 | 40.2 | 60.4 |
| 98 | 0.4 | 0.1 | 0.1 |




**Instrument :**
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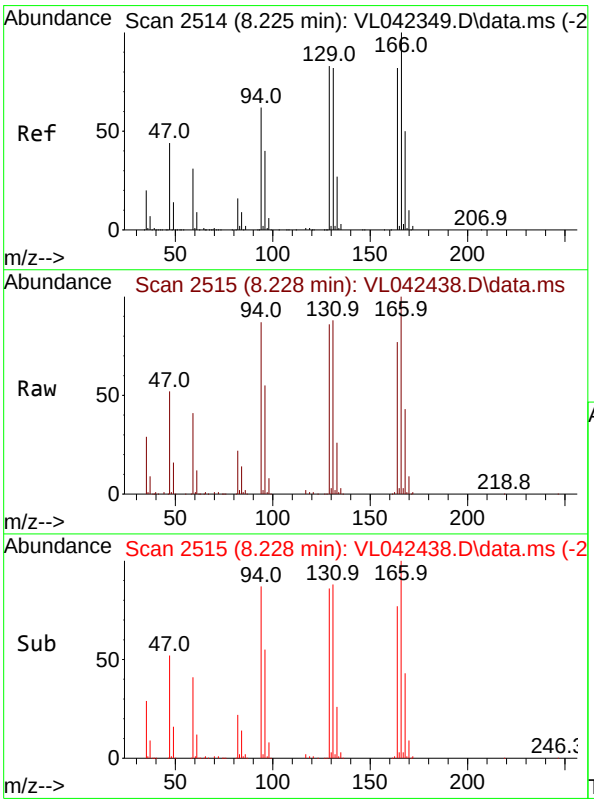
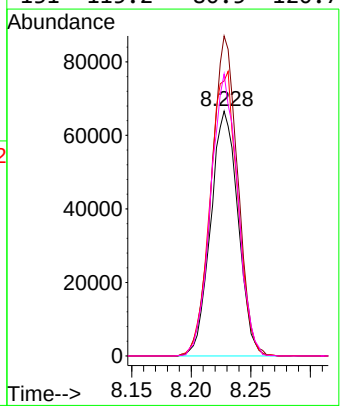
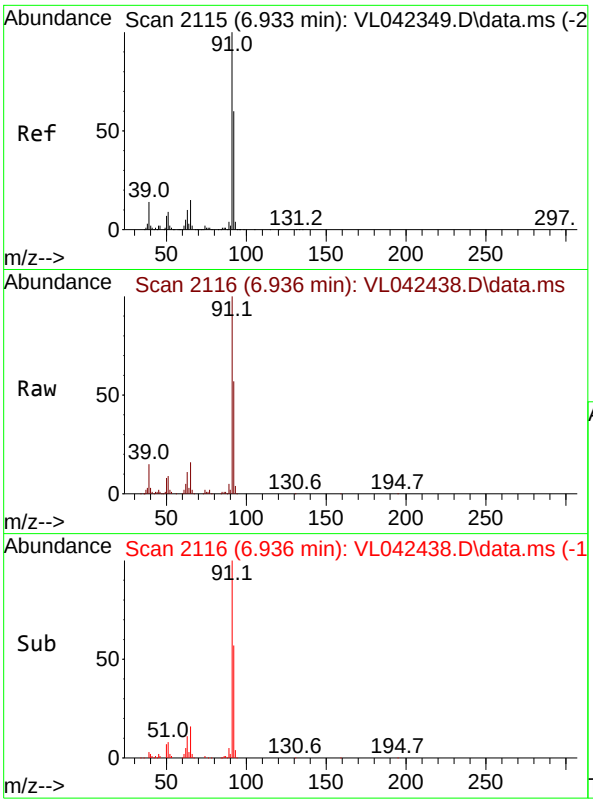



#52
Tetrachloroethene
Concen: 8.008 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion:164 Resp: 106031

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 130.7 | 98.2 | 147.2 |
| 129 | 112.3 | 81.8 | 122.8 |
| 131 | 115.2 | 80.5 | 120.7 |

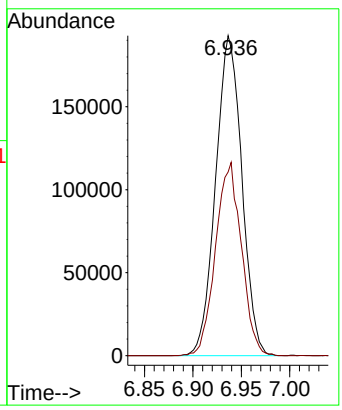





#53
Toluene
Concen: 8.848 ppbv
RT: 6.936 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 91 Resp: 36370

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 59.6 | 48.2 | 72.4 |

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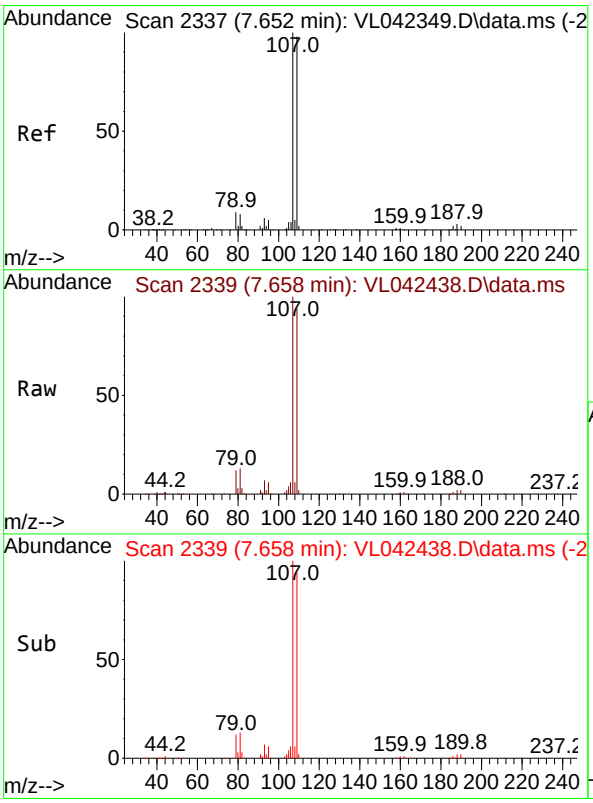
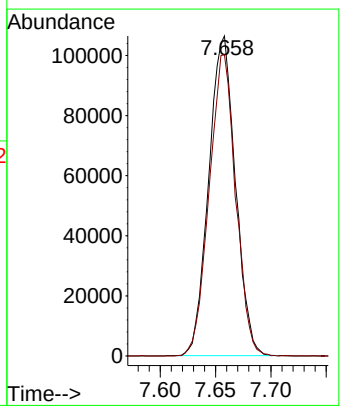
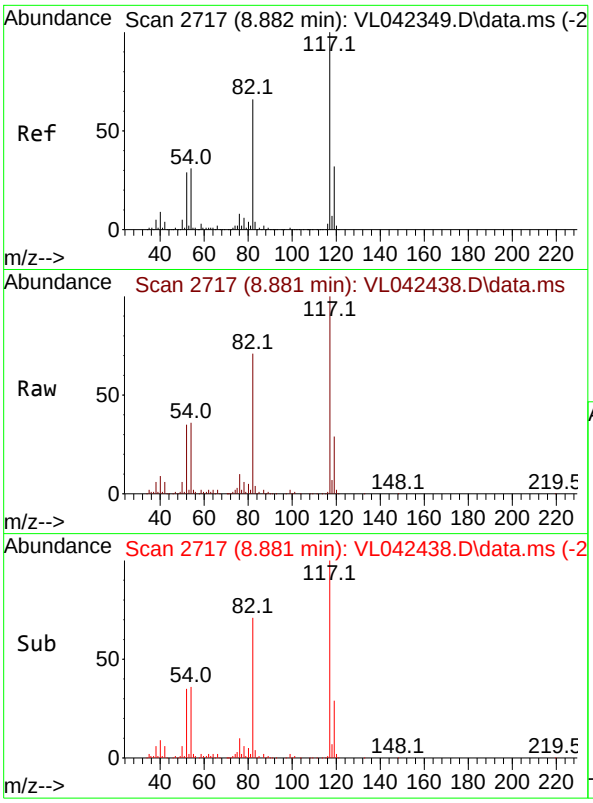



#54
1,2-Dibromoethane
Concen: 9.601 ppbv
RT: 7.658 min Scan# 2339
Delta R.T. 0.006 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion:107 Resp: 178709

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.3 | 78.2 | 117.4 |

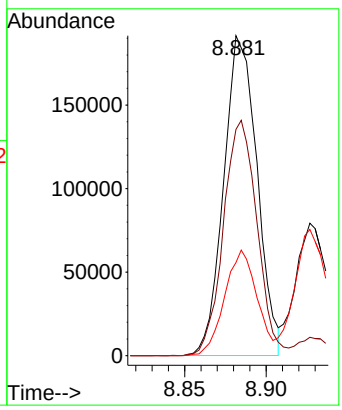





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion:117 Resp: 27231

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 79.2 | 57.8 | 86.6 |
| 119 | 32.0 | 25.2 | 37.8 |

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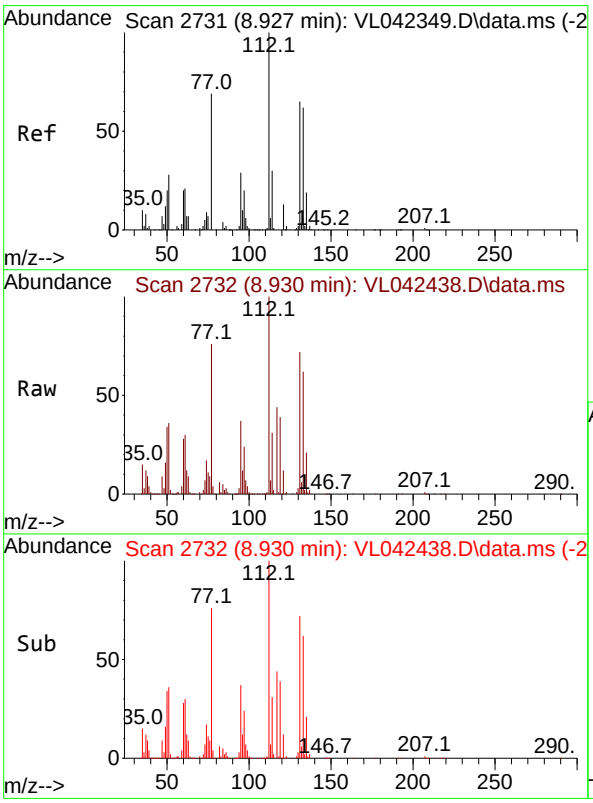
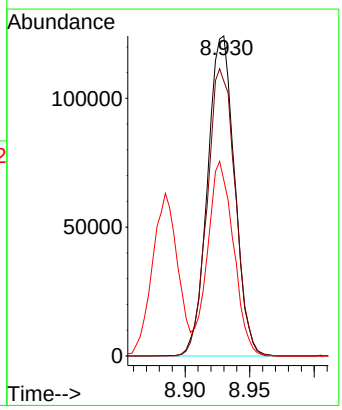
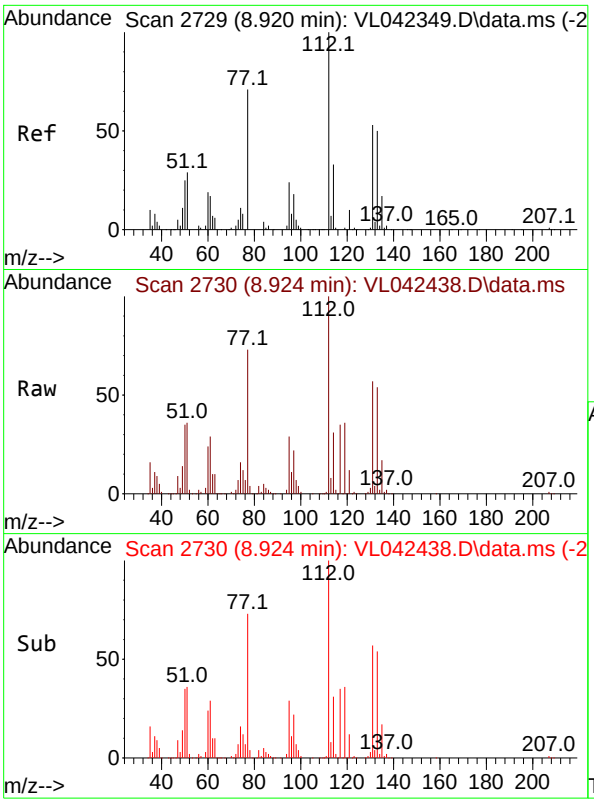



#56
1,1,1,2-Tetrachloroethane
Concen: 10.981 ppbv
RT: 8.930 min Scan# 2732
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion:131 Resp: 180979

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 93.2 | 78.3 | 117.5 |
| 119 | 58.6 | 48.7 | 73.1 |






#57
Chlorobenzene
Concen: 10.270 ppbv
RT: 8.924 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

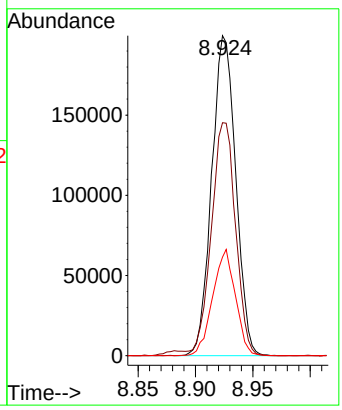
Tgt Ion:112 Resp: 29086

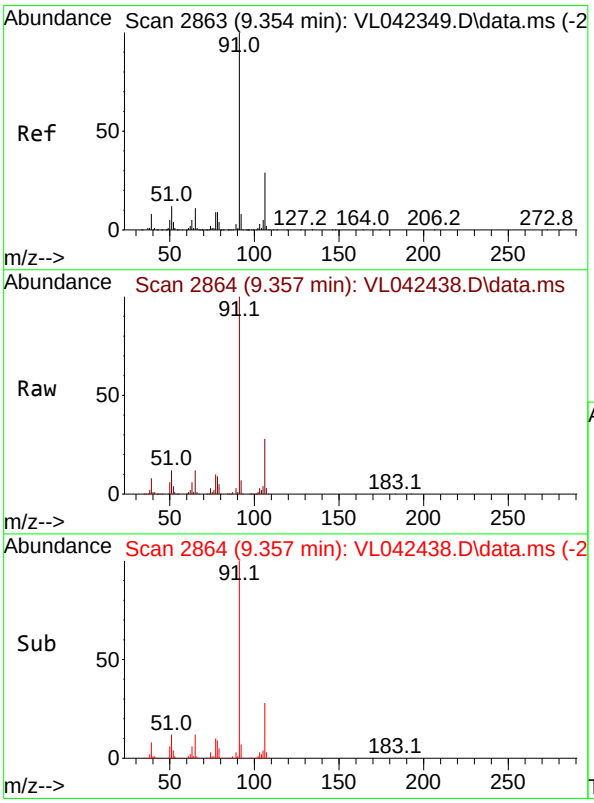
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 72.8 | 57.8 | 86.6 |
| 114 | 30.8 | 29.3 | 35.9 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

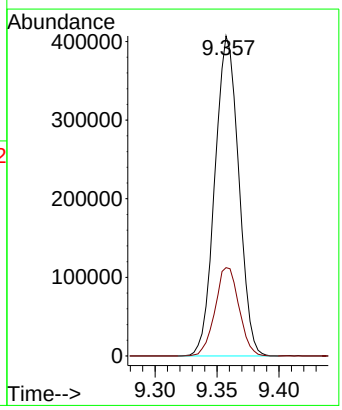


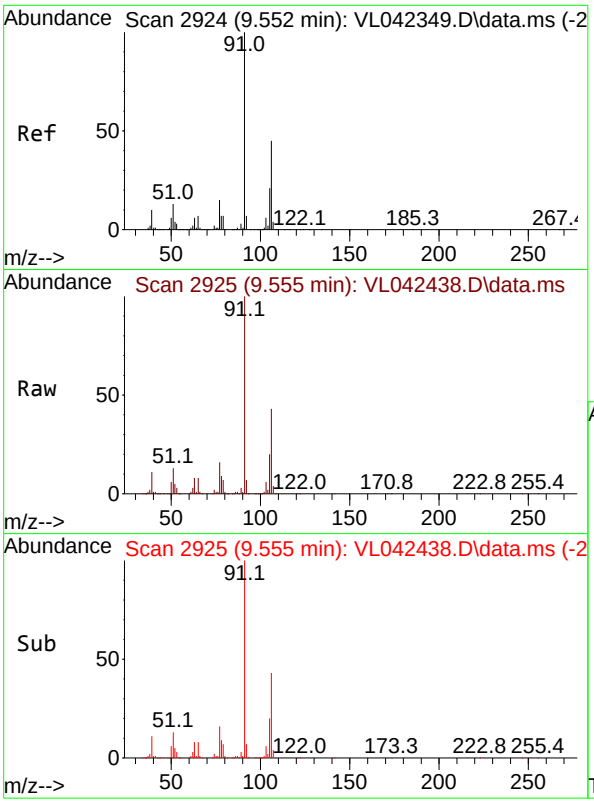




#58
Ethyl Benzene
Concen: 10.111 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 91 Resp: 545497

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 27.6 | 23.0 | 34.4 |

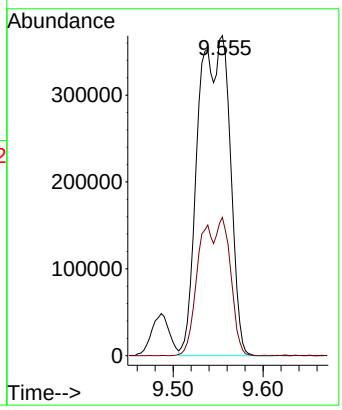





#59
m/p-Xylene
Concen: 20.857 ppbv m
RT: 9.555 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 91 Resp: 90653

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 41.8 | 35.4 | 53.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

**Manual Integrations**
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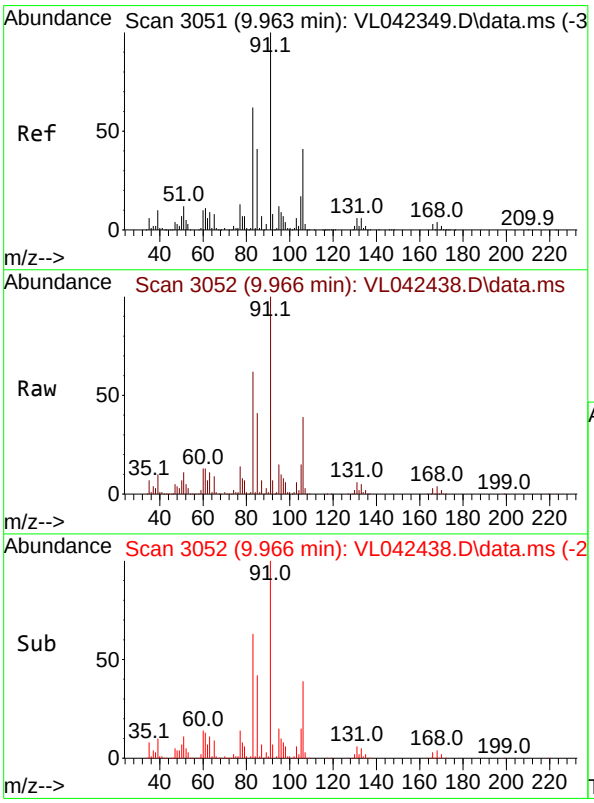
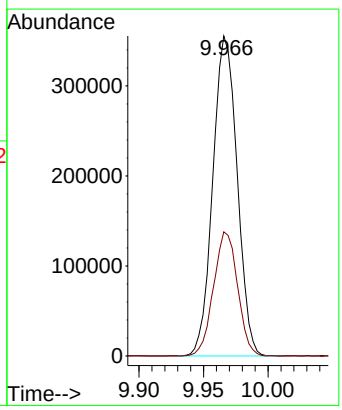
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

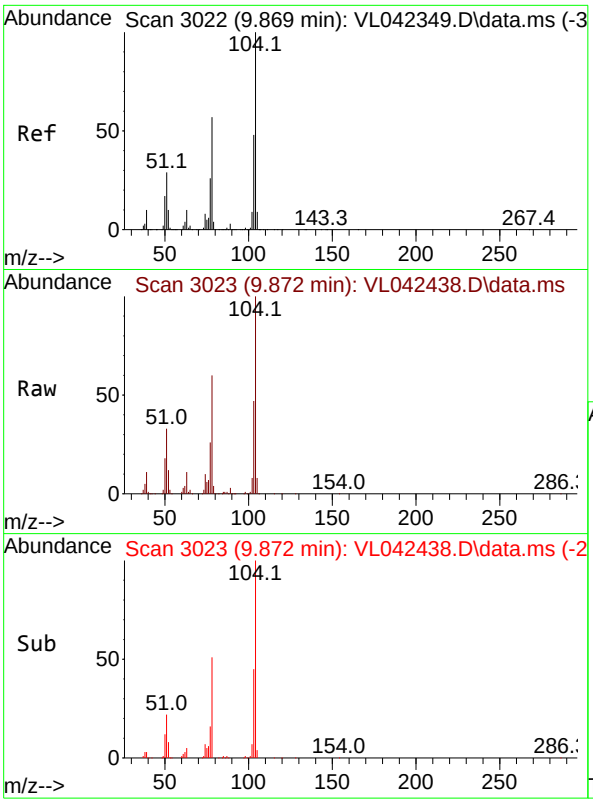



#60
o-Xylene
Concen: 10.639 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 91 Resp: 465645

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 38.4 | 21.1 | 63.4 |

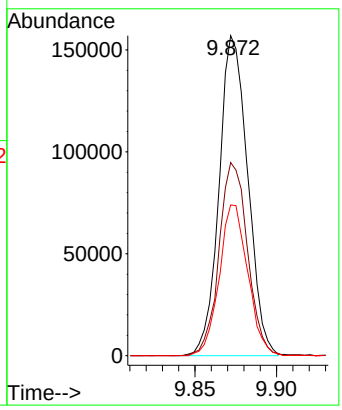





#61
Styrene
Concen: 9.178 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion:104 Resp: 19174

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 60.1 | 44.6 | 66.8 |
| 103 | 47.0 | 37.4 | 56.0 |




**Instrument :**
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**ClientSampleId :**
VL0429ABS01

**Manual Integrations**
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Reviewed By :Semsettin Yesilyurt 04/30/2025
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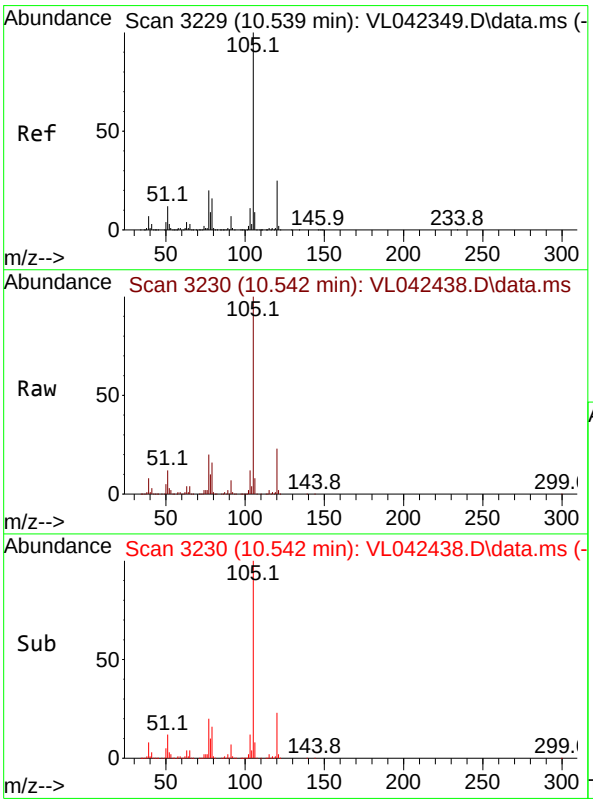
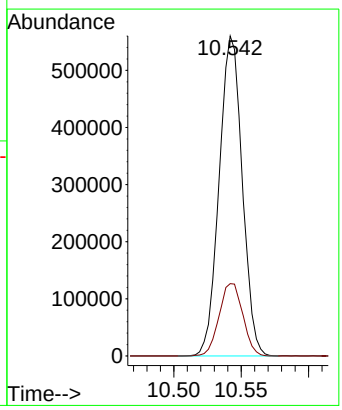
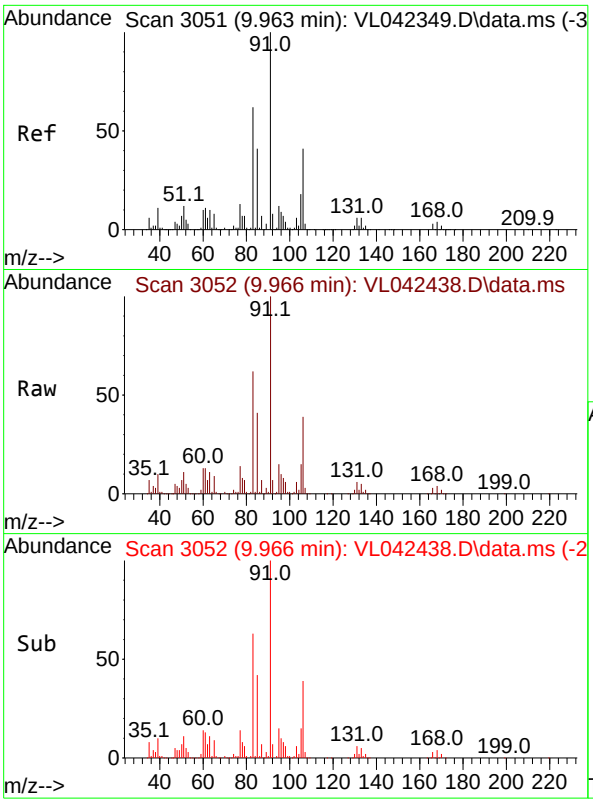



#62
Isopropylbenzene
Concen: 10.393 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion:105 Resp: 667839

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 23.2 | 19.8 | 29.8 |






#63
1,1,2,2-Tetrachloroethane
Concen: 9.819 ppbv
RT: 9.966 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 83 Resp: 27849

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.8 | 4.5 | 13.7 |
| 85 | 64.4 | 32.4 | 97.0 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

**Manual Integrations**
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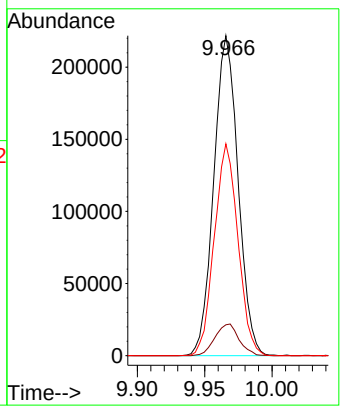
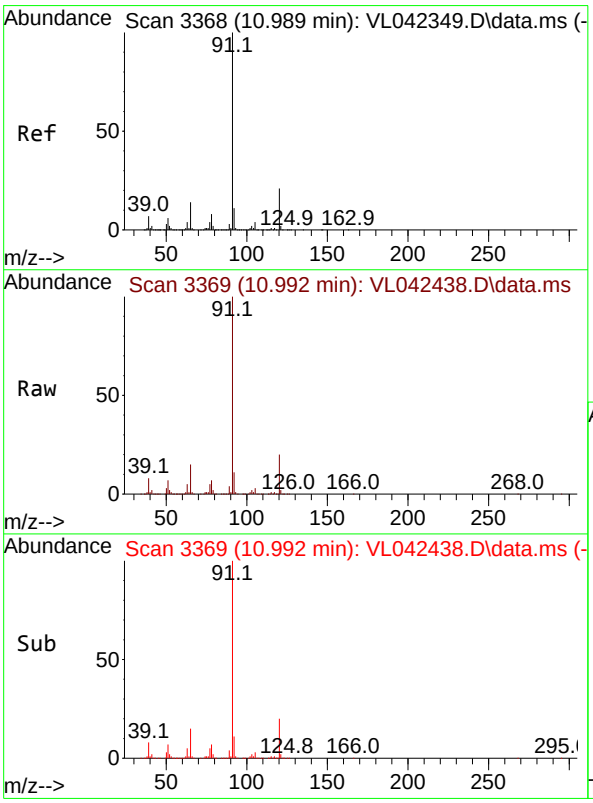
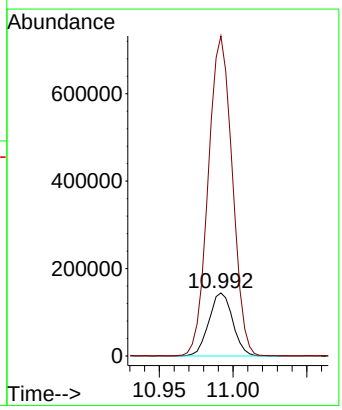


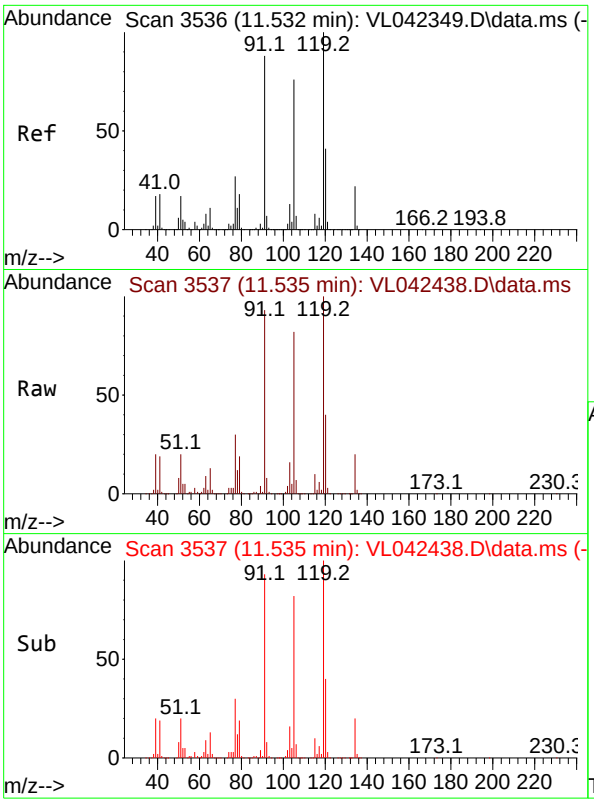




#64
n-propylbenzene
Concen: 9.987 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion:120 Resp: 161309

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 515.8 | 392.4 | 588.6 |

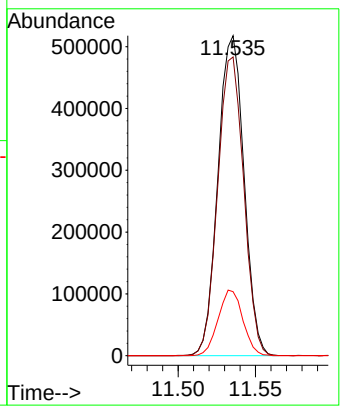





#65
tert-Butylbenzene
Concen: 10.260 ppbv
RT: 11.535 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion:119 Resp: 60597

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 93.3 | 74.6 | 111.8 |
| 134 | 19.5 | 18.8 | 28.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

**Manual Integrations**
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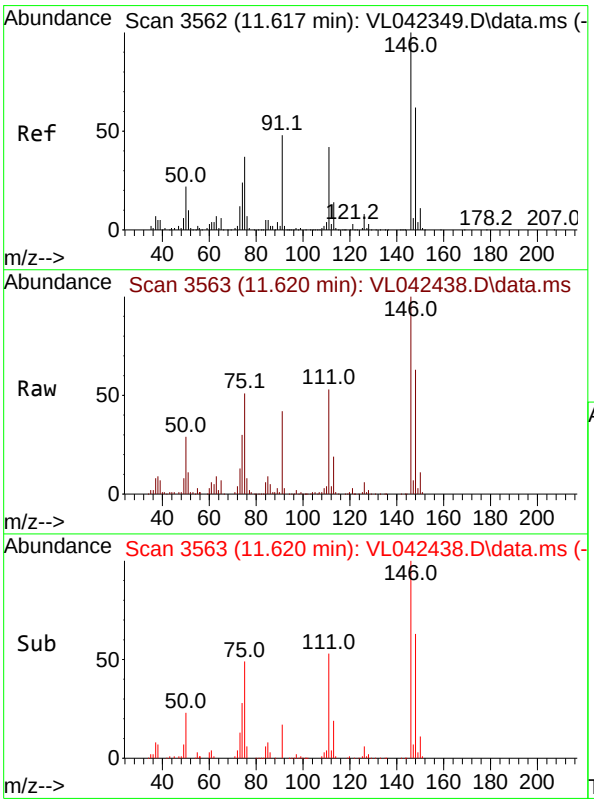
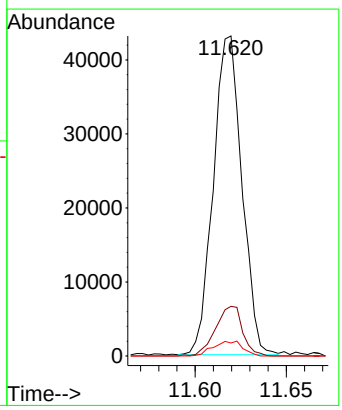
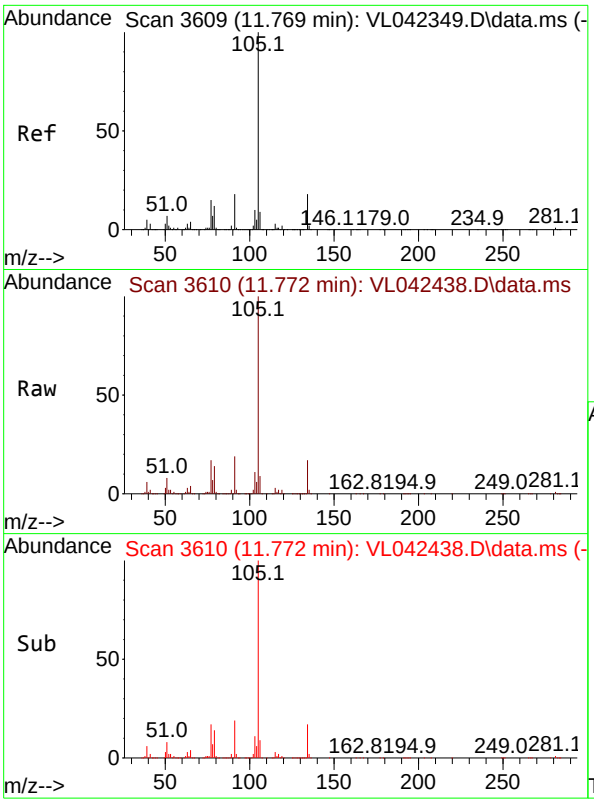



#66
Benzyl Chloride
Concen: 7.229 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 91 Resp: 46913

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 14.8 | 11.8 | 17.6 |
| 128 | 4.8 | 4.5 | 6.7 |

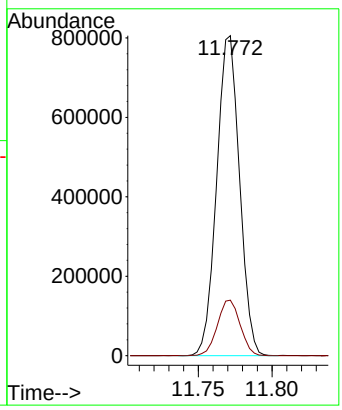





#67
sec-Butylbenzene
Concen: 10.569 ppbv
RT: 11.772 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion:105 Resp: 86827

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 17.3 | 14.6 | 21.8 |




**Instrument :**
MSVOA_L
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VL0429ABS01

**Manual Integrations**
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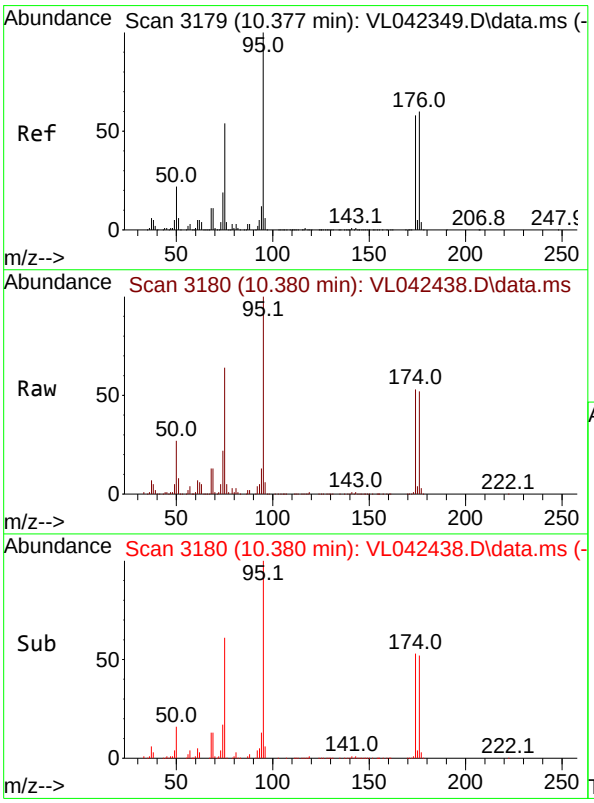
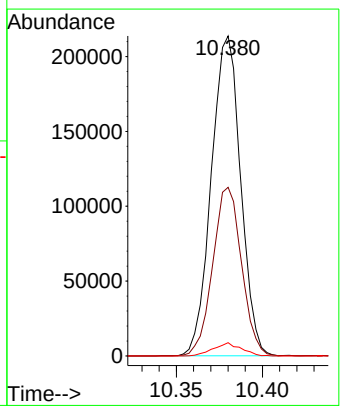
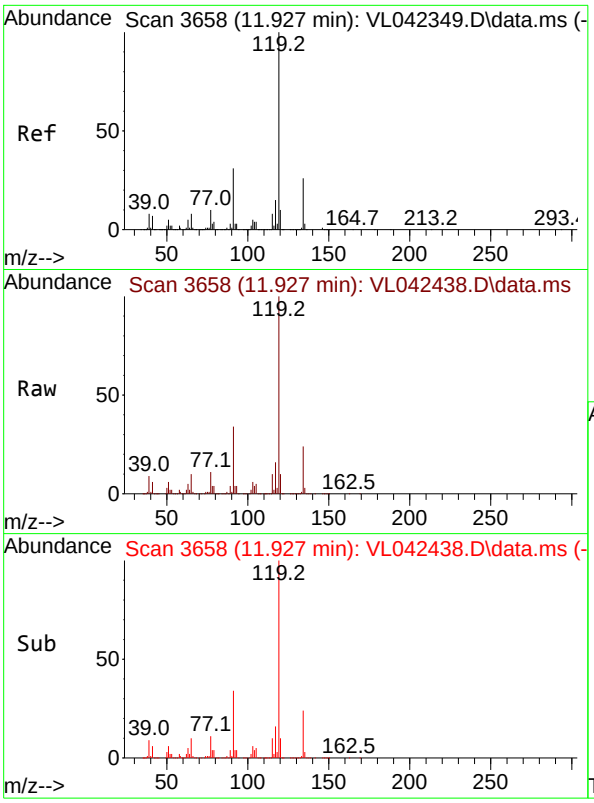



#68
1-Bromo-4-Fluorobenzene
Concen: 11.307 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 95 Resp: 253021

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 52.0 | 48.5 | 72.7 |
| 175 | 3.9 | 3.7 | 5.5 |

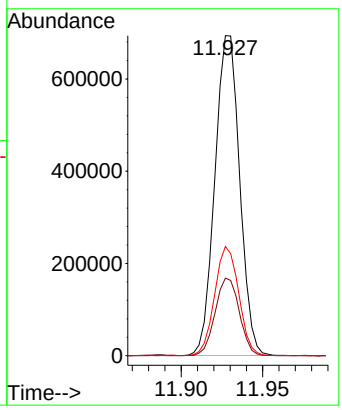





#69
p-Isopropyltoluene
Concen: 10.282 ppbv
RT: 11.927 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion:119 Resp: 73379

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 23.7 | 20.0 | 30.0 |
| 91 | 33.4 | 24.4 | 36.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

**Manual Integrations**
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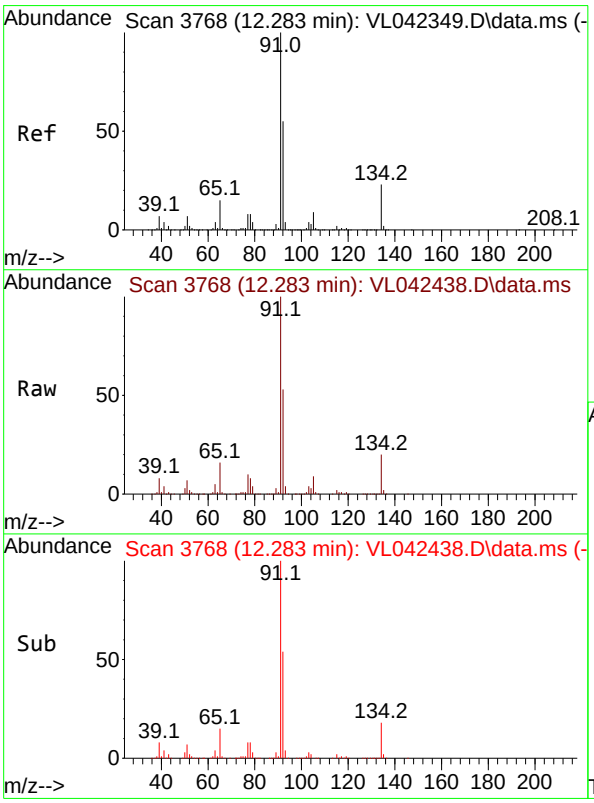
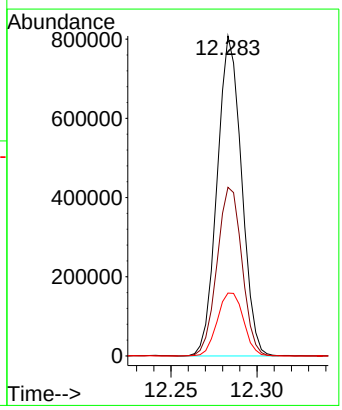
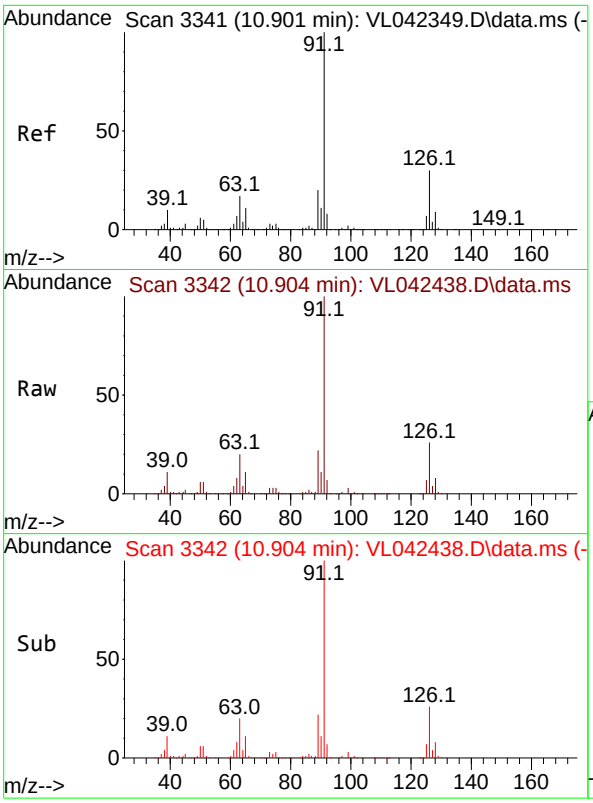



#70
n-Butylbenzene
Concen: 10.717 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 91 Resp: 796622

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 54.1 | 44.2 | 66.4 |
| 134 | 21.1 | 18.2 | 27.4 |

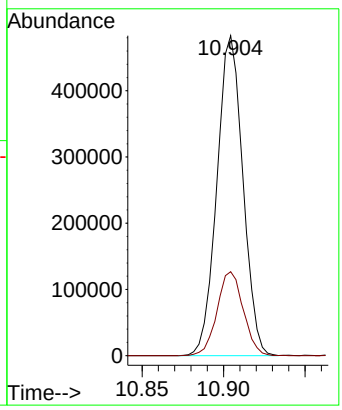





#71
2-Chlorotoluene
Concen: 10.614 ppbv
RT: 10.904 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 91 Resp: 53495

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 26.4 | 11.4 | 45.4 |

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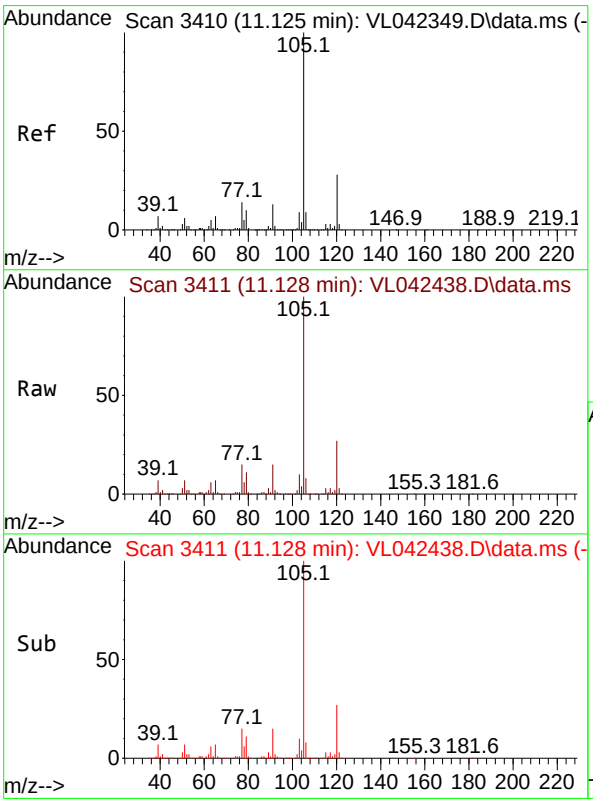
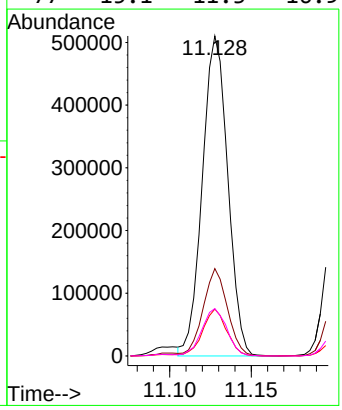
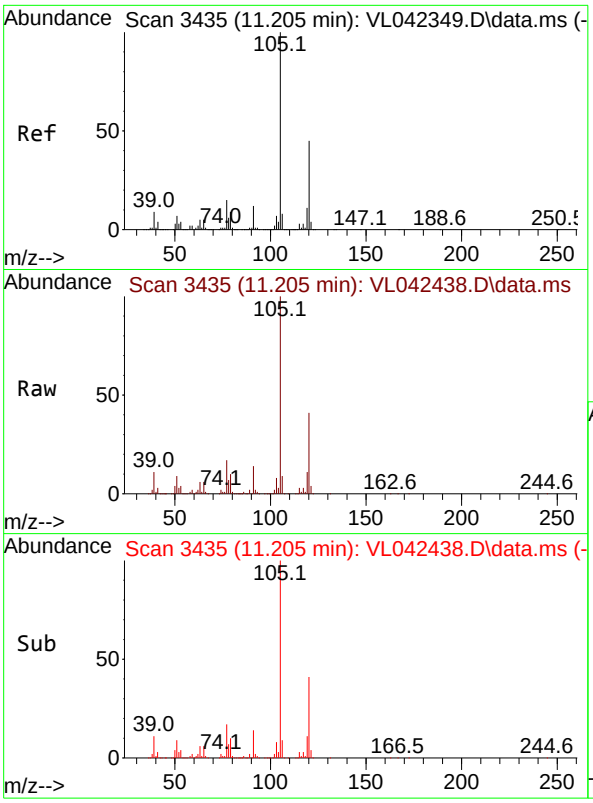



#72
4-Ethyltoluene
Concen: 10.351 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion:105 Resp: 553879

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.9 | 23.2 | 34.8 |
| 91 | 14.3 | 10.4 | 15.6 |
| 77 | 15.1 | 11.3 | 16.9 |






#73
1,3,5-Trimethylbenzene
Concen: 10.403 ppbv
RT: 11.205 min Scan# 34
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion:105 Resp: 49145

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 41.1 | 35.6 | 53.4 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

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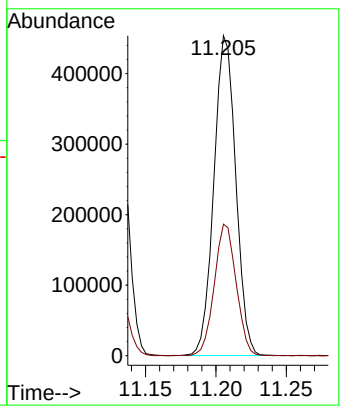
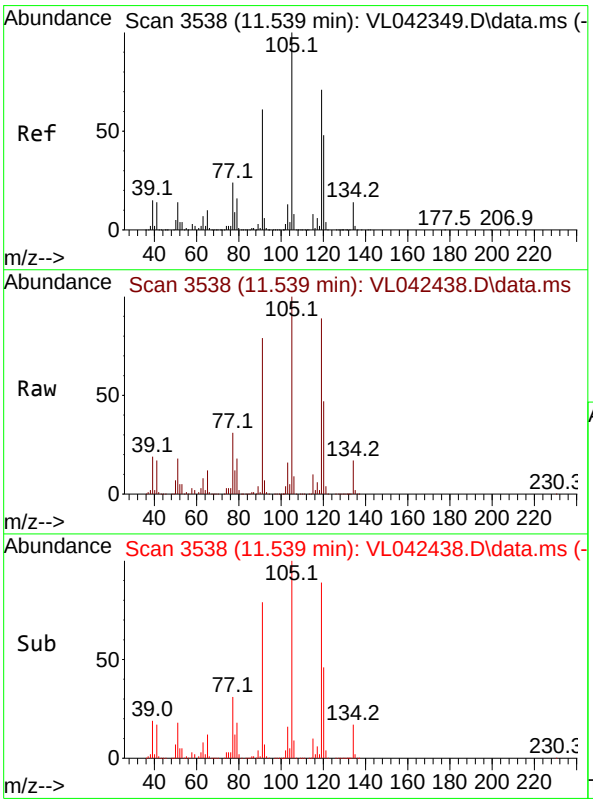
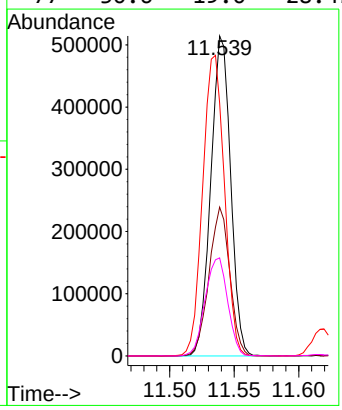


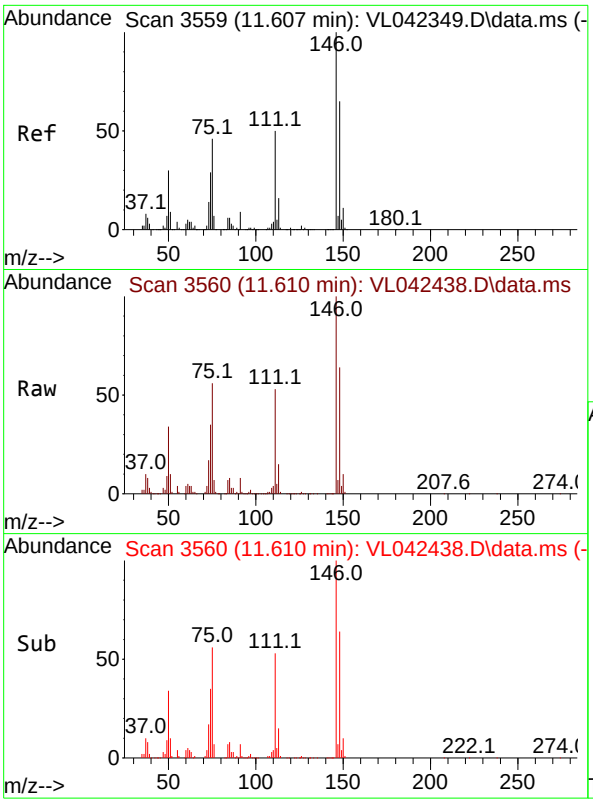




#74
1,2,4-Trimethylbenzene
Concen: 9.939 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion:105 Resp: 548408

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.5 | 38.1 | 57.1 |
| 91 | 79.0 | 48.8 | 73.2# |
| 77 | 30.6 | 19.0 | 28.4# |

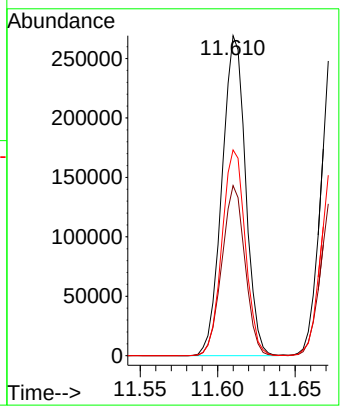





#75
1,3-Dichlorobenzene
Concen: 9.931 ppbv
RT: 11.610 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion:146 Resp: 28480

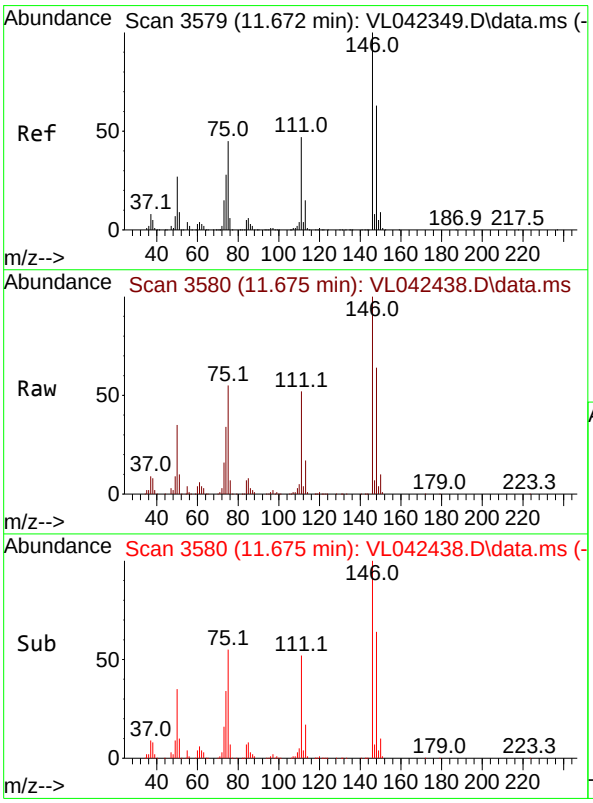
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 52.1 | 24.3 | 72.8 |
| 148 | 63.8 | 31.6 | 94.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

**Manual Integrations**
**APPROVED**

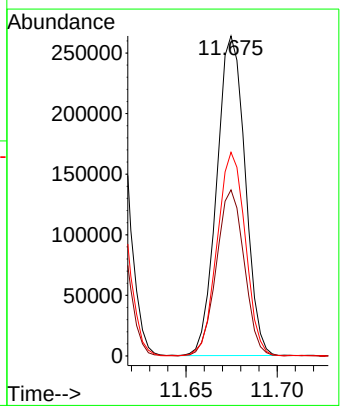
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

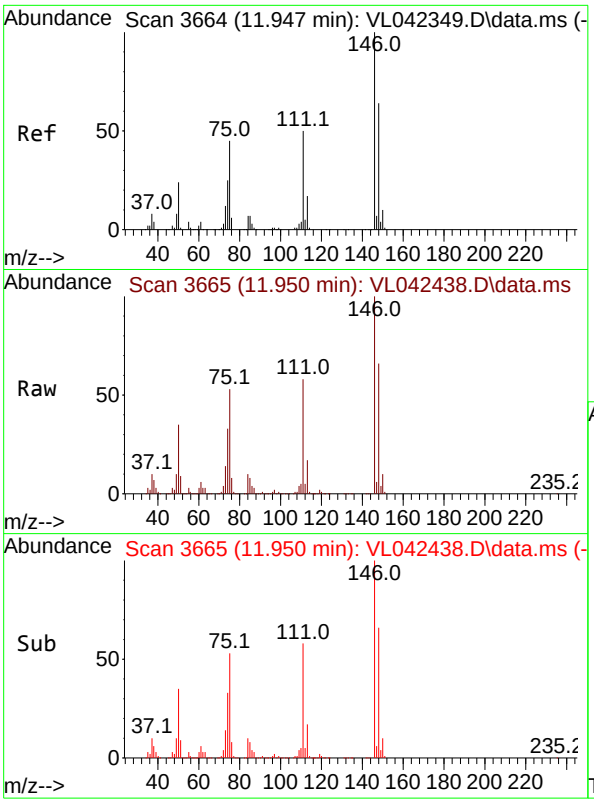



#76
1,4-Dichlorobenzene
Concen: 9.907 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion:146 Resp: 285571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 51.1 | 24.2 | 72.6 |
| 148 | 63.6 | 32.1 | 96.5 |

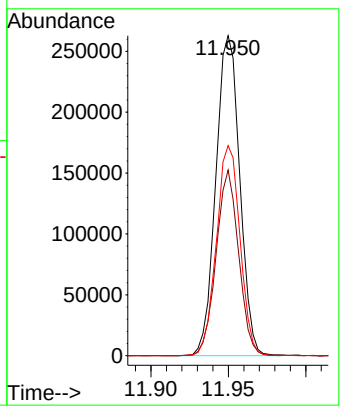





#77
1,2-Dichlorobenzene
Concen: 10.128 ppbv
RT: 11.950 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion:146 Resp: 28242

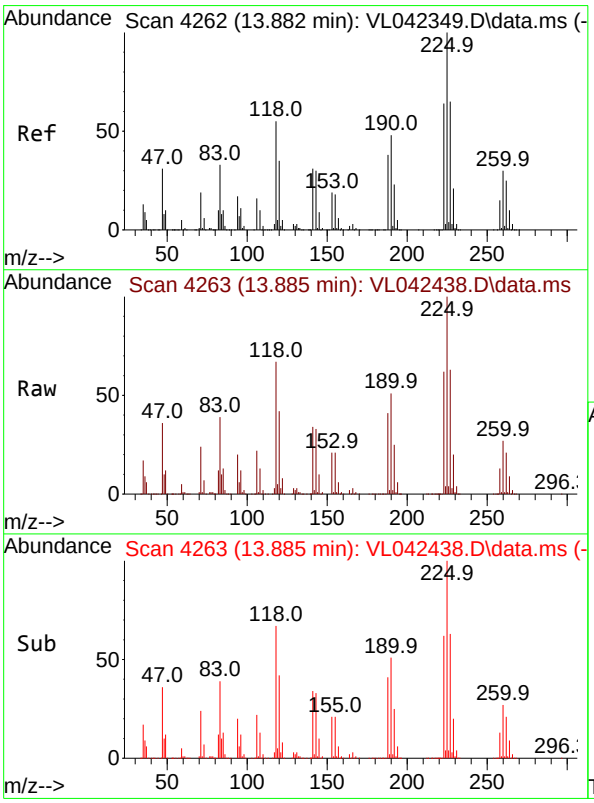
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 54.6 | 25.3 | 75.9 |
| 148 | 64.8 | 31.5 | 94.5 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

**Manual Integrations**
**APPROVED**

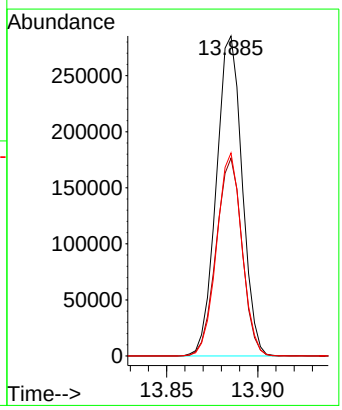
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

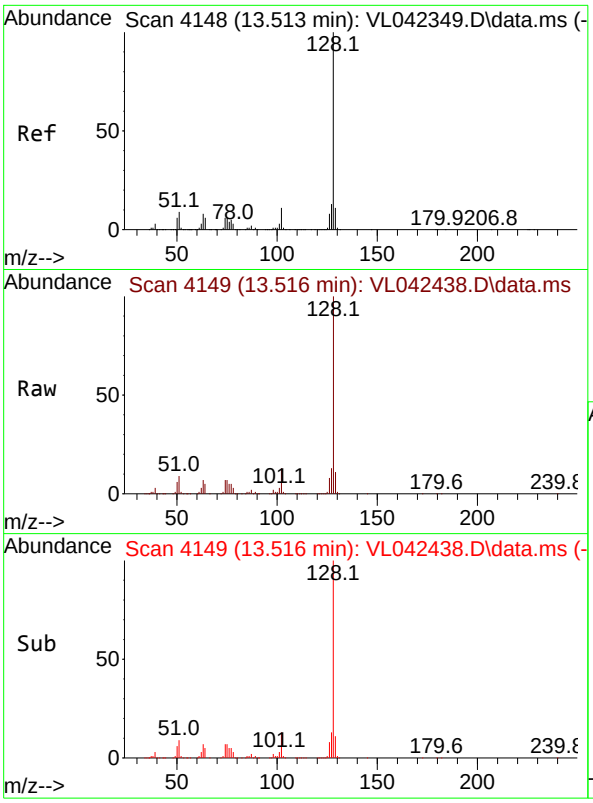



#78
Hexachloro-1,3-Butadiene
Concen: 9.977 ppbv
RT: 13.885 min Scan# 4263
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion:225 Resp: 280954

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 61.8 | 50.3 | 75.5 |
| 227 | 61.9 | 51.5 | 77.3 |

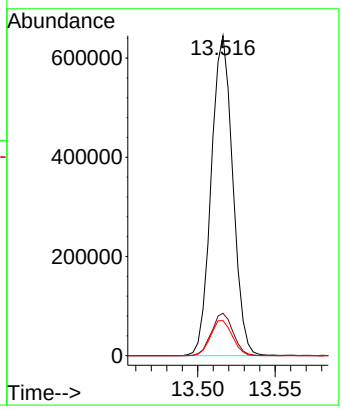





#79
Naphthalene
Concen: 9.425 ppbv
RT: 13.516 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion:128 Resp: 62187

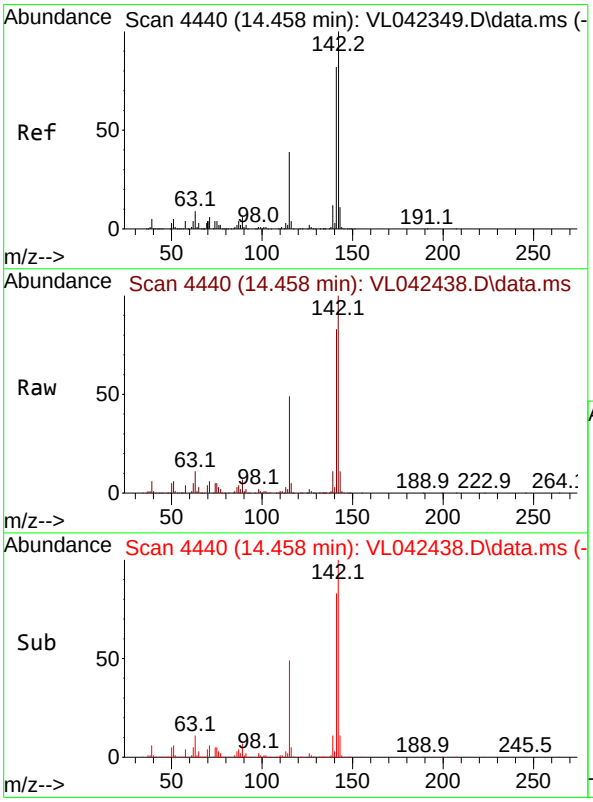
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.2 | 10.6 | 15.8 |
| 129 | 11.0 | 8.6 | 12.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

**Manual Integrations**
**APPROVED**

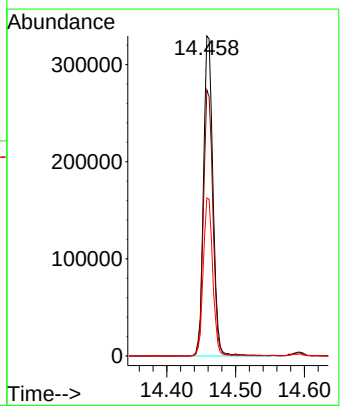
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

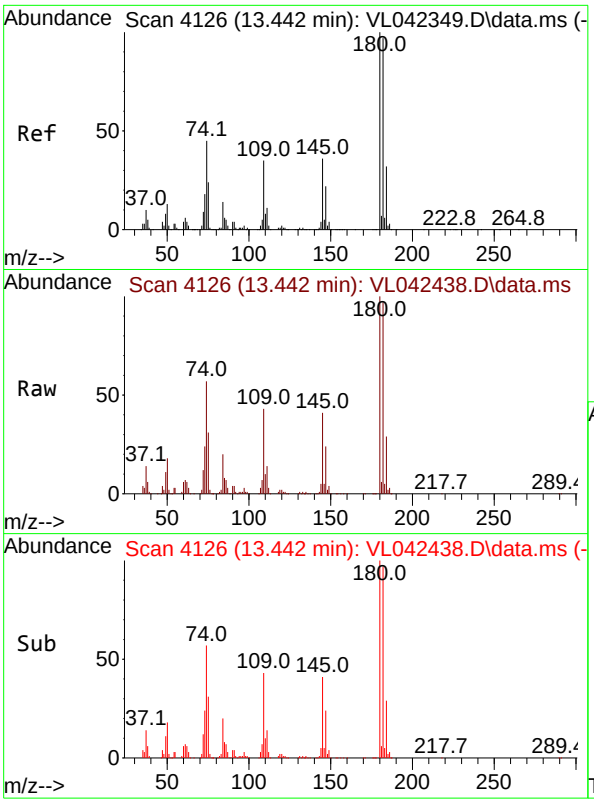



#80
Naphthalene,2-methyl-
Concen: 8.317 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion:142 Resp: 312733

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 84.1 | 66.8 | 100.2 |
| 115 | 49.9 | 33.4 | 50.2 |

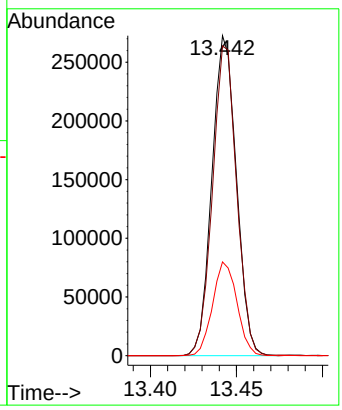





#81
1,2,4-Trichlorobenzene
Concen: 9.498 ppbv
RT: 13.442 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion:180 Resp: 26908

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.8 | 76.8 | 115.2 |
| 184 | 29.3 | 24.6 | 36.8 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 04/09/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 04/09/25 |
| Client Sample ID: | AA-DUP-1-3242025DUP | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-01DUP | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042291.D | 1 | | 04/09/25 14:02 | VL040925 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.38 | 1.88 | J | 1.04 | 2.47 | ug/m3 |
| 64-17-5 | Ethanol | 12.8 | 24.1 | | 0.60 | 0.94 | ug/m3 |
| 74-87-3 | Chloromethane | 0.55 | 1.14 | | 0.21 | 1.03 | ug/m3 |
| 75-01-4 | Vinyl Chloride | 0.010 | 0.030 | U | 0.030 | 0.080 | ug/m3 |
| 74-83-9 | Bromomethane | 0.14 | 0.54 | U | 0.54 | 1.94 | ug/m3 |
| 75-00-3 | Chloroethane | 0.17 | 0.45 | U | 0.45 | 1.32 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | 0.13 | 0.38 | U | 0.38 | 1.47 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | 0.22 | 1.24 | J | 0.90 | 2.81 | ug/m3 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.16 | 1.23 | U | 1.23 | 3.83 | ug/m3 |
| 76-14-2 | Dichlorotetrafluoroethane | 0.090 | 0.63 | U | 0.63 | 3.49 | ug/m3 |
| 593-60-2 | Bromoethene | 0.12 | 0.52 | U | 0.52 | 2.19 | ug/m3 |
| 75-65-0 | tert-Butyl alcohol | 0.19 | 0.58 | U | 0.58 | 1.52 | ug/m3 |
| 142-82-5 | Heptane | 0.10 | 0.41 | U | 0.45 | 2.05 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | 1.90 | 4.67 | | 0.17 | 1.23 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethene | 0.14 | 0.56 | U | 0.56 | 1.98 | ug/m3 |
| 67-64-1 | Acetone | 3.60 | 8.55 | | 0.57 | 1.19 | ug/m3 |
| 75-15-0 | Carbon Disulfide | 0.16 | 0.50 | U | 0.50 | 1.56 | ug/m3 |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.12 | 0.43 | U | 0.43 | 1.80 | ug/m3 |
| 75-09-2 | Methylene Chloride | 0.95 | 3.30 | | 0.66 | 1.74 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.19 | 0.75 | U | 0.75 | 1.98 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | 0.13 | 0.53 | U | 0.53 | 2.02 | ug/m3 |
| 110-82-7 | Cyclohexane | 0.22 | 0.76 | U | 0.76 | 1.72 | ug/m3 |
| 78-93-3 | 2-Butanone | 0.33 | 0.97 | J | 0.35 | 1.47 | ug/m3 |
| 56-23-5 | Carbon Tetrachloride | 0.080 | 0.50 | | 0.060 | 0.19 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.090 | 0.36 | U | 0.36 | 1.98 | ug/m3 |
| 67-66-3 | Chloroform | 0.080 | 0.39 | U | 0.39 | 2.44 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.010 | 0.050 | U | 0.050 | 0.16 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | 0.10 | 0.47 | U | 0.47 | 2.34 | ug/m3 |
| 71-43-2 | Benzene | 0.24 | 0.77 | J | 0.29 | 1.60 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | 0.090 | 0.36 | U | 0.36 | 2.02 | ug/m3 |
| 79-01-6 | Trichloroethene | 0.020 | 0.11 | U | 0.11 | 0.16 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | 0.11 | 0.51 | U | 0.51 | 2.31 | ug/m3 |
| 75-27-4 | Bromodichloromethane | 0.080 | 0.54 | U | 0.54 | 3.35 | ug/m3 |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.090 | 0.37 | U | 0.37 | 2.05 | ug/m3 |
| 108-88-3 | Toluene | 0.28 | 1.06 | J | 0.41 | 1.88 | ug/m3 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 04/09/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 04/09/25 |
| Client Sample ID: | AA-DUP-1-3242025DUP | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-01DUP | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042291.D | 1 | | 04/09/25 14:02 | VL040925 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.060 | 0.27 | U | 0.27 | 2.27 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.060 | 0.27 | U | 0.27 | 2.27 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.070 | 0.38 | U | 0.38 | 2.73 | ug/m3 |
| 124-48-1 | Dibromochloromethane | 0.070 | 0.60 | U | 0.60 | 4.26 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane | 0.070 | 0.54 | U | 0.54 | 0.77 | ug/m3 |
| 127-18-4 | Tetrachloroethene | 0.020 | 0.14 | U | 0.14 | 0.20 | ug/m3 |
| 108-90-7 | Chlorobenzene | 0.080 | 0.37 | U | 0.37 | 2.30 | ug/m3 |
| 100-41-4 | Ethyl Benzene | 0.12 | 0.52 | U | 0.52 | 2.17 | ug/m3 |
| 179601-23-1 | m/p-Xylene | 0.12 | 0.52 | U | 0.91 | 4.34 | ug/m3 |
| 95-47-6 | o-Xylene | 0.12 | 0.52 | U | 0.52 | 2.17 | ug/m3 |
| 100-42-5 | Styrene | 0.11 | 0.47 | U | 0.47 | 2.13 | ug/m3 |
| 75-25-2 | Bromoform | 0.060 | 0.62 | U | 0.62 | 5.17 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.010 | 0.070 | U | 0.070 | 0.21 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | 0.11 | 0.57 | U | 0.57 | 2.59 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.11 | 0.54 | U | 0.54 | 2.46 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.080 | 0.39 | U | 0.39 | 2.46 | ug/m3 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.080 | 0.48 | U | 0.48 | 3.01 | ug/m3 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.050 | 0.30 | U | 0.30 | 3.01 | ug/m3 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.080 | 0.48 | U | 0.48 | 3.01 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.090 | 0.67 | U | 0.67 | 3.71 | ug/m3 |
| 87-68-3 | Hexachloro-1,3-Butadiene | 0.090 | 0.96 | U | 0.96 | 5.33 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | 0.13 | 0.29 | U | 0.29 | 1.11 | ug/m3 |
| 91-20-3 | Naphthalene | 0.080 | 0.42 | U | 0.42 | 0.52 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | 0.12 | 0.59 | U | 0.59 | 2.46 | ug/m3 |
| 110-54-3 | Hexane | 1.40 | 4.93 | | 0.39 | 1.76 | ug/m3 |
| 107-05-1 | Allyl Chloride | 0.15 | 0.47 | U | 0.47 | 1.57 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | 0.21 | 0.76 | U | 0.76 | 1.80 | ug/m3 |
| 80-62-6 | Methyl Methacrylate | 0.090 | 0.37 | U | 0.37 | 2.05 | ug/m3 |
| **SURROGATES** | | | | | | | |
| 460-00-4 | 1-Bromo-4-Fluorobenzene | 9.30 | | | 70 (65) - 130 (135) | 93% | SPK: 10 |
| **INTERNAL STANDARDS** | | | | | | | |
| 74-97-5 | Bromochloromethane | 157000 | | 2.784 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 397000 | | 3.952 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 332000 | | 8.875 | | | |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 04/09/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 04/09/25 |
| Client Sample ID: | AA-DUP-1-3242025DUP | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-01DUP | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042291.D | 1 | | 04/09/25 14:02 | VL040925 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042291.D
Acq On : 09 Apr 2025 14:02
Operator : SY/MD
Sample : Q1665-01DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 01:43:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025DUP

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 2.784 | 49 | 156655 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.952 | 114 | 397453 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.875 | 117 | 332015 | 10.000 | ppbv | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.371 | 95 | 254829 | 9.346 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 93.500% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.496 | 85 | 8694 | 0.376 | ppbv | | 98 |
| 3) Chlorodifluoromethane | 1.473 | 51 | 7625m | 0.323 | ppbv | | |
| 4) Chloromethane | 1.531 | 50 | 5160 | 0.546 | ppbv | | 96 |
| 9) Propene | 1.486 | 41 | 8735 | 0.807 | ppbv | | 85 |
| 10) Heptane | 4.965 | 43 | 2744m | 0.095 | ppbv | | |
| 11) Trichlorofluoromethane | 1.878 | 101 | 5033m | 0.224 | ppbv | | |
| 13) Ethanol | 1.719 | 45 | 13066 | 12.762 | ppbv | | 82 |
| 15) Acetone | 1.832 | 43 | 79514 | 3.629 | ppbv | | 93 |
| 19) Isopropyl Alcohol | 1.884 | 45 | 23262 | 1.882 | ppbv | # | 39 |
| 20) Methylene Chloride | 2.059 | 84 | 7721 | 0.946 | ppbv | | 92 |
| 26) Hexane | 2.823 | 57 | 29831 | 1.358 | ppbv | # | 32 |
| 34) 2-Butanone | 2.557 | 43 | 9468 | 0.329 | ppbv | | 96 |
| 35) Carbon Tetrachloride | 3.755 | 117 | 2412m | 0.078 | ppbv | | |
| 36) Benzene | 3.655 | 78 | 9601 | 0.244 | ppbv | | 99 |
| 53) Toluene | 6.924 | 91 | 12958 | 0.277 | ppbv | | 96 |
| 59) m/p-Xylene | 9.526 | 91 | 5621m | 0.119 | ppbv | | |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

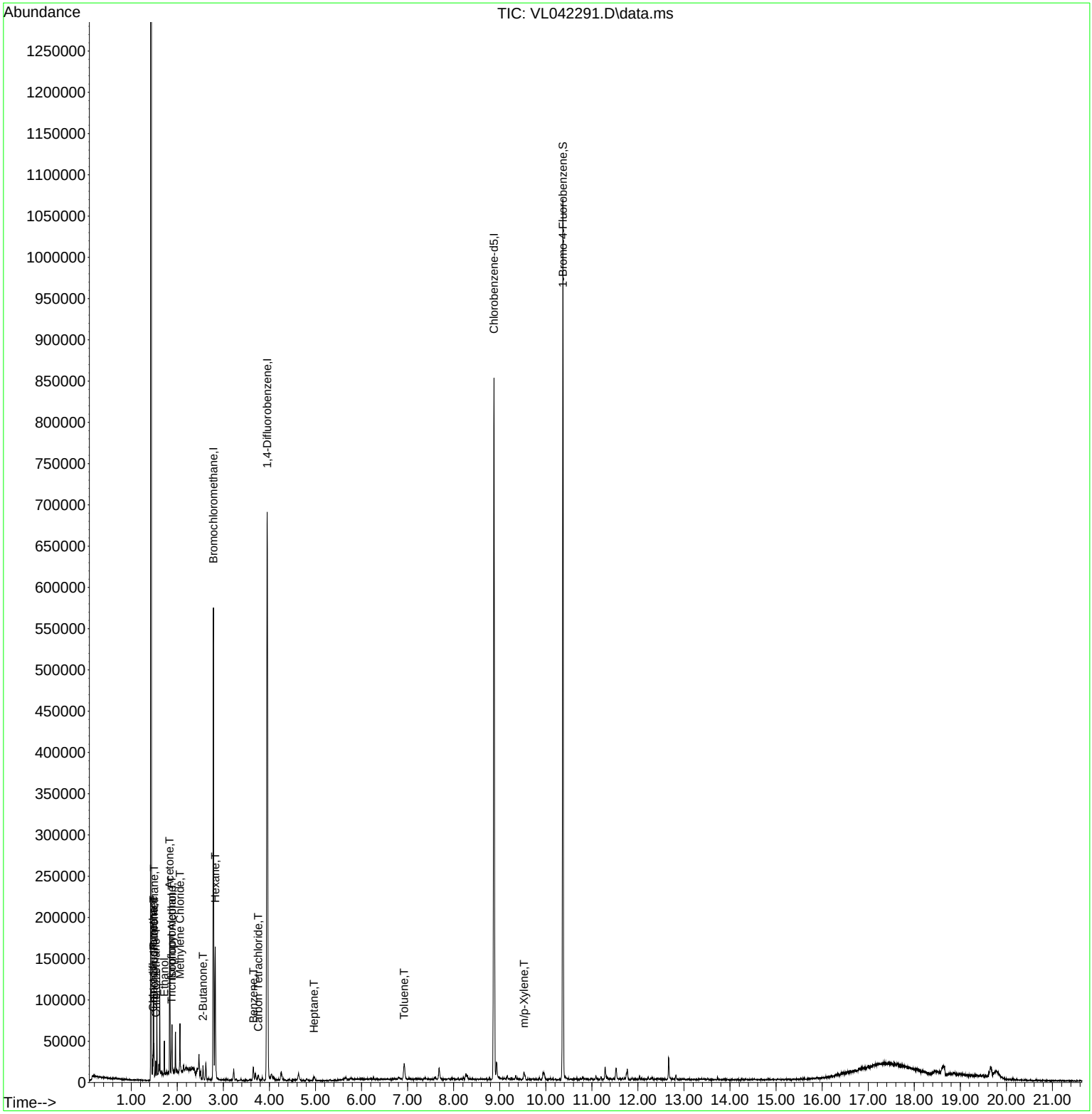
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042291.D
Acq On : 09 Apr 2025 14:02
Operator : SY/MD
Sample : Q1665-01DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

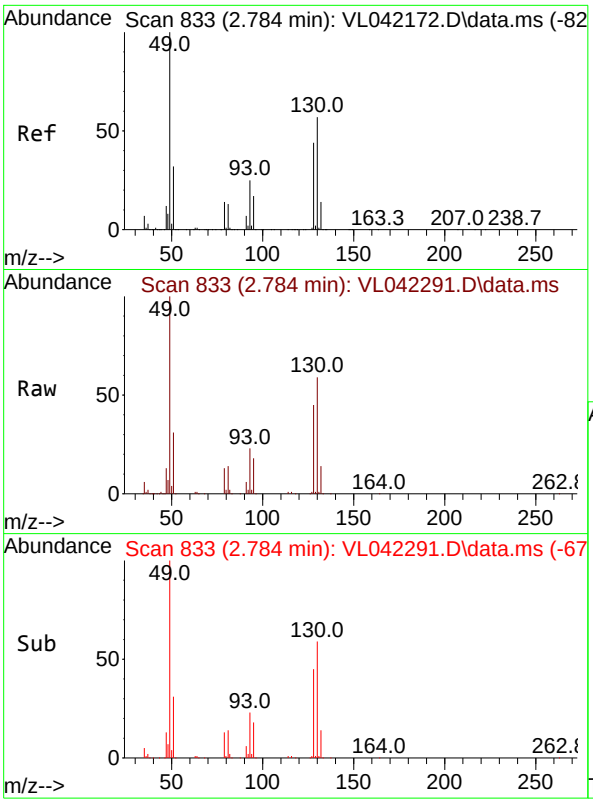
Quant Time: Apr 10 01:43:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025DUP

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

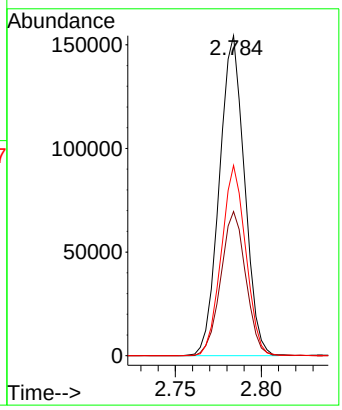





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042291.D
Acq: 09 Apr 2025 14:02

Tgt Ion: 49 Resp: 15665

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 44.8 | 22.9 | 68.5 |
| 130 | 57.8 | 28.8 | 86.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025DUP

**Manual Integrations**
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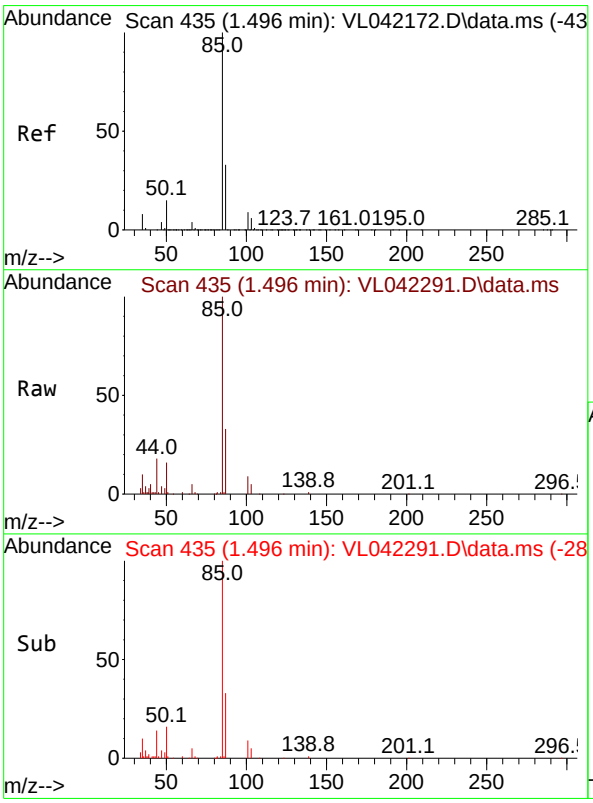
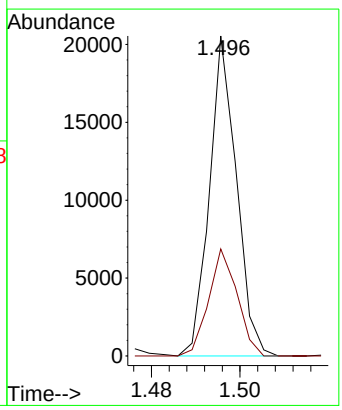
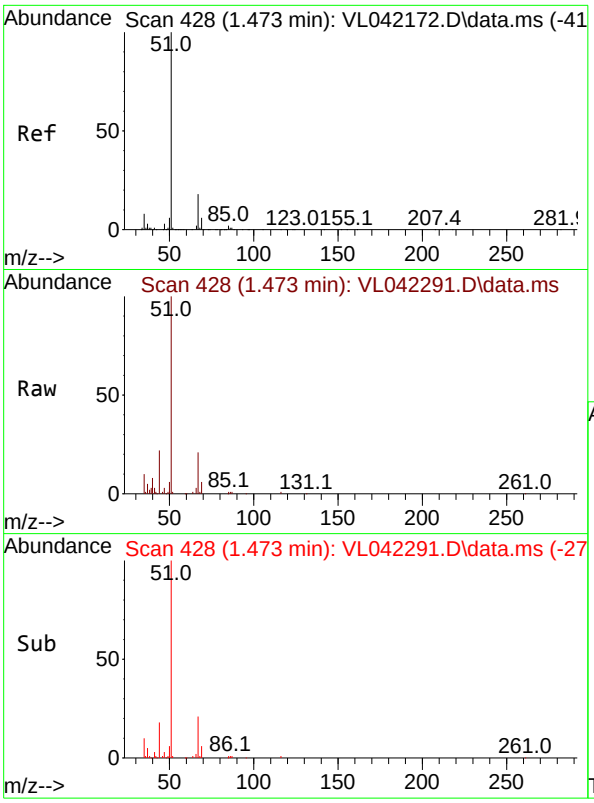



#2
Dichlorodifluoromethane
Concen: 0.376 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042291.D
Acq: 09 Apr 2025 14:02

Tgt Ion: 85 Resp: 8694

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.5 | 26.1 | 39.1 |

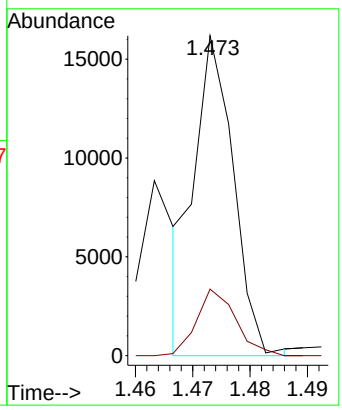





#3
Chlorodifluoromethane
Concen: 0.323 ppbv m
RT: 1.473 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042291.D
Acq: 09 Apr 2025 14:02

Tgt Ion: 51 Resp: 762

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 2.0 | 15.0 | 22.6 |

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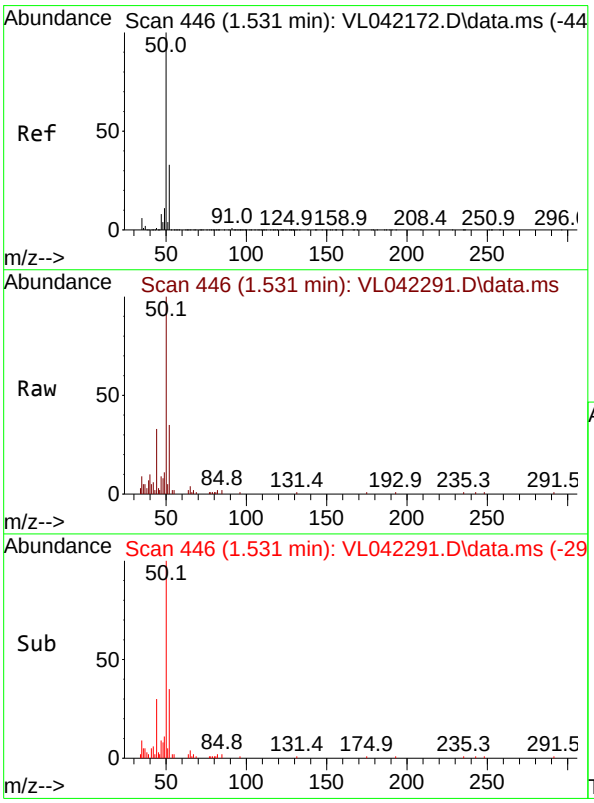
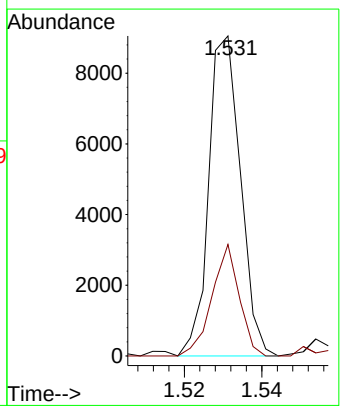
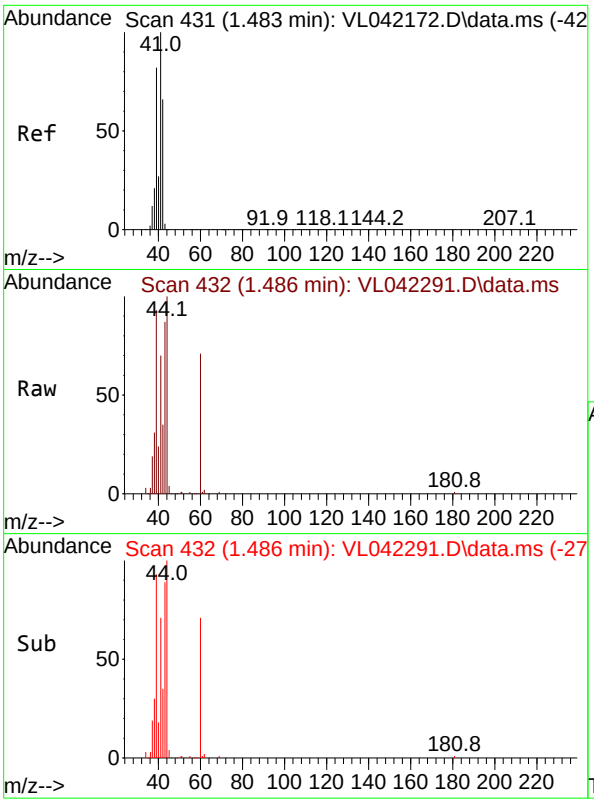



#4
Chloromethane
Concen: 0.546 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042291.D
Acq: 09 Apr 2025 14:02

Tgt Ion: 50 Resp: 5160

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 34.9 | 26.1 | 39.1 |

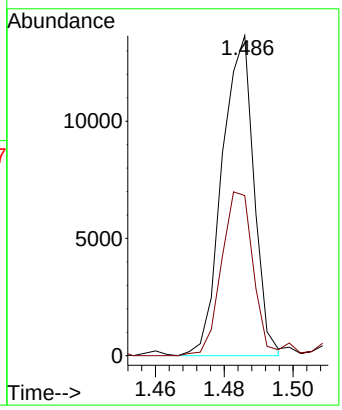





#9
Propene
Concen: 0.807 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042291.D
Acq: 09 Apr 2025 14:02

Tgt Ion: 41 Resp: 873

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 57.1 | 55.4 | 83.2 |

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MSVOA_L
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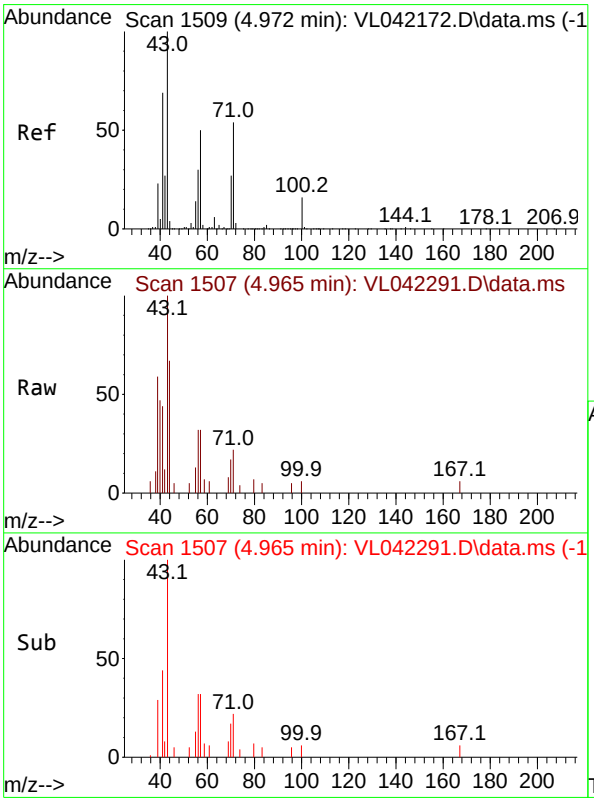
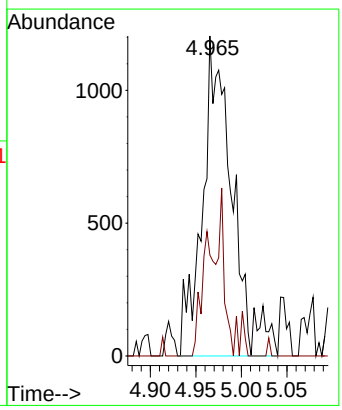
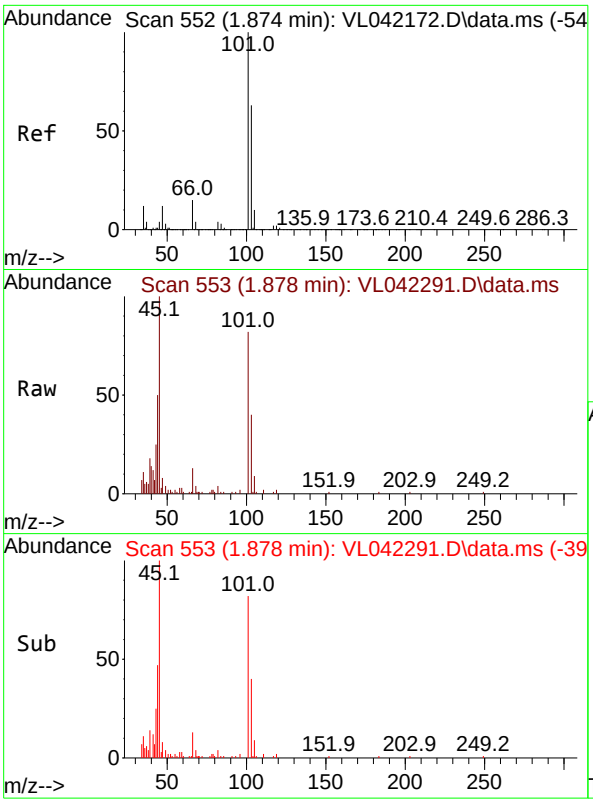



#10
Heptane
Concen: 0.095 ppbv m
RT: 4.965 min Scan# 1507
Delta R.T. -0.007 min
Lab File: VL042291.D
Acq: 09 Apr 2025 14:02

Tgt Ion: 43 Resp: 2744

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 0.0 | 39.4 | 59.2# |






#11
Trichlorofluoromethane
Concen: 0.224 ppbv m
RT: 1.878 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042291.D
Acq: 09 Apr 2025 14:02

Tgt Ion:101 Resp: 503

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 49.2 | 50.2 | 75.2 |

**Instrument :**
MSVOA_L
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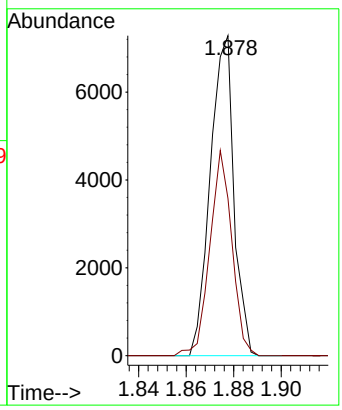
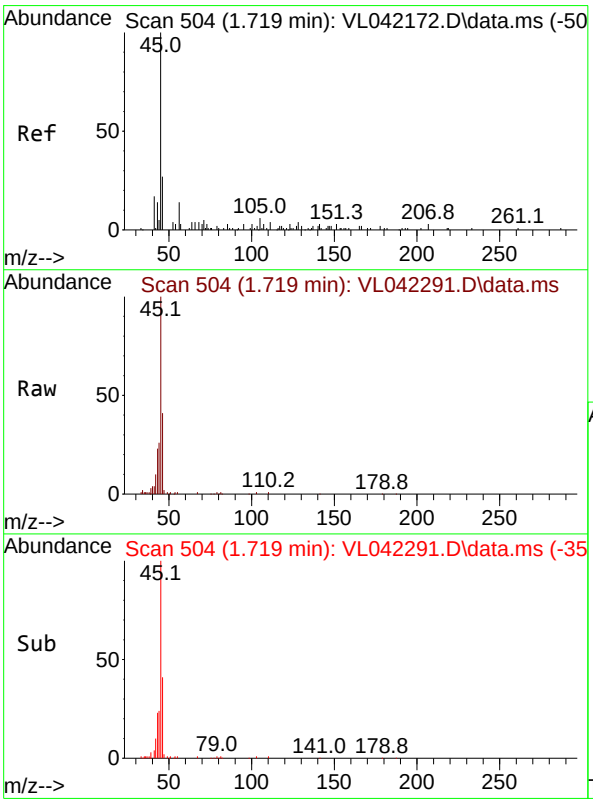
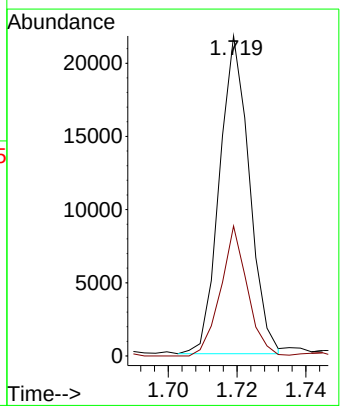


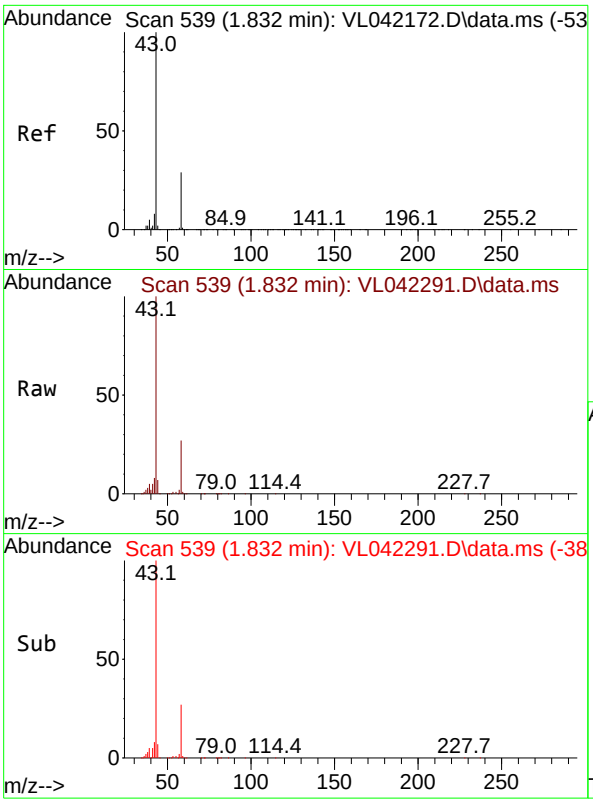




#13
Ethanol
Concen: 12.762 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042291.D
Acq: 09 Apr 2025 14:02

Tgt Ion: 45 Resp: 13066

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 37.8 | 20.2 | 80.8 |

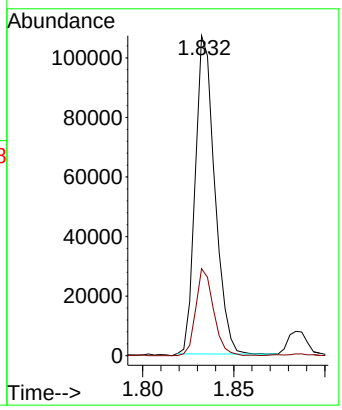





#15
Acetone
Concen: 3.629 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042291.D
Acq: 09 Apr 2025 14:02

Tgt Ion: 43 Resp: 7951

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 25.3 | 23.2 | 34.8 |

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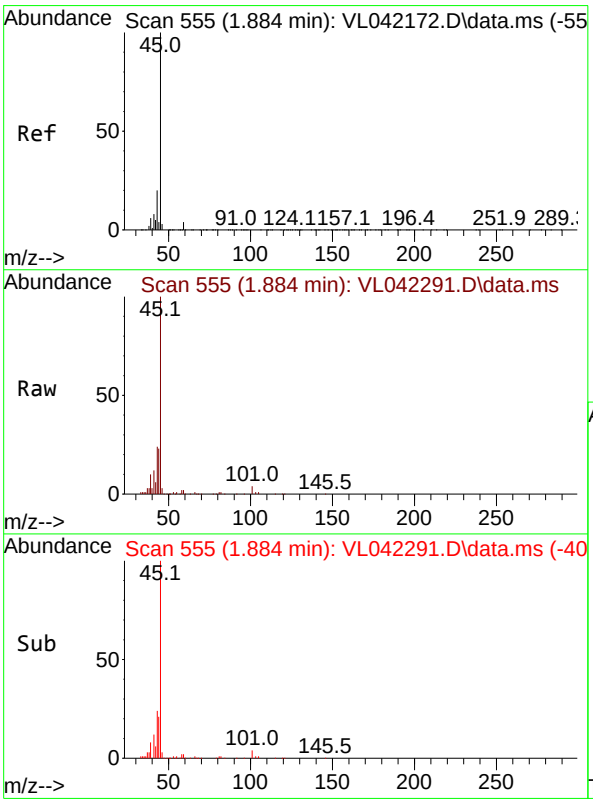
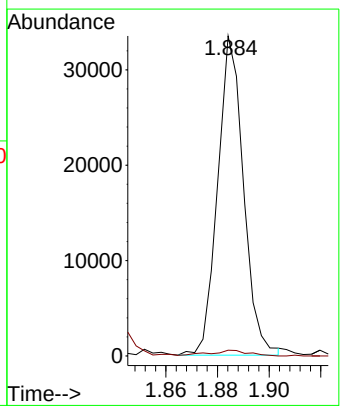
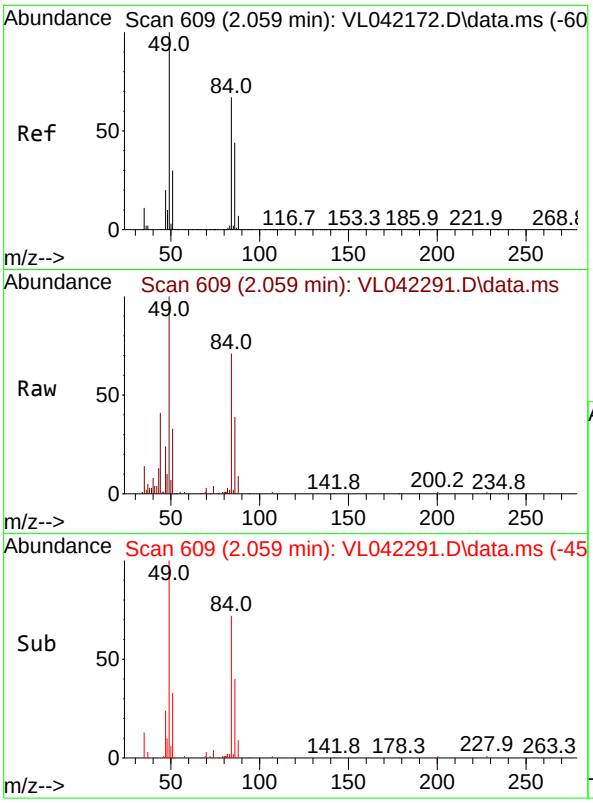



#19
Isopropyl Alcohol
Concen: 1.882 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL042291.D
Acq: 09 Apr 2025 14:02

Tgt Ion: 45 Resp: 23262

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 86.4 | 36.9 | 55.3# |

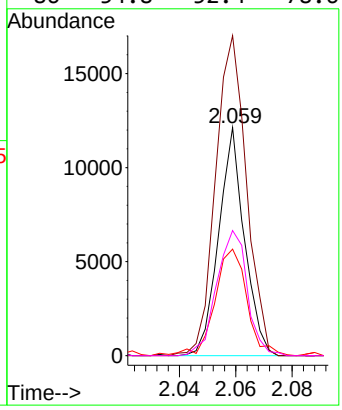





#20
Methylene Chloride
Concen: 0.946 ppbv
RT: 2.059 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042291.D
Acq: 09 Apr 2025 14:02

Tgt Ion: 84 Resp: 772

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 140.2 | 120.2 | 180.4 |
| 51 | 45.4 | 37.4 | 56.0 |
| 86 | 54.8 | 52.4 | 78.6 |

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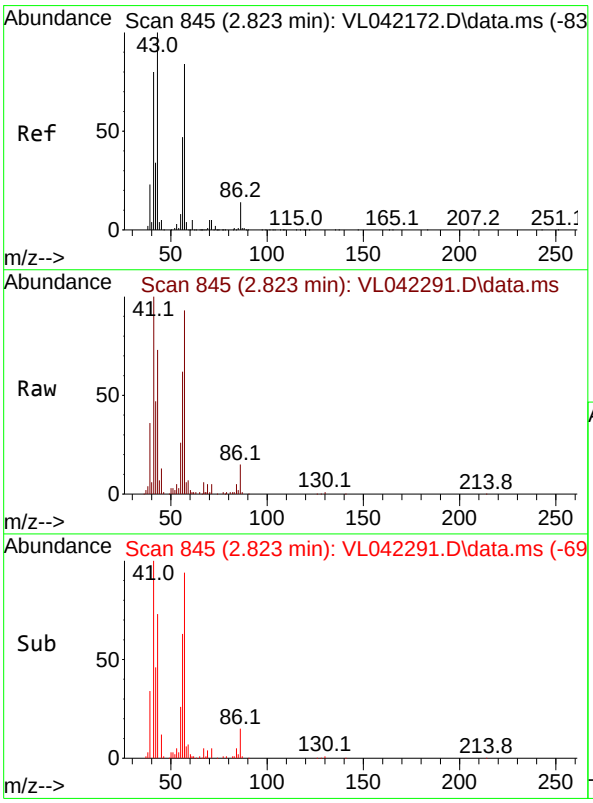
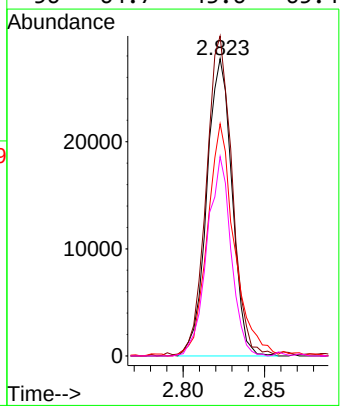
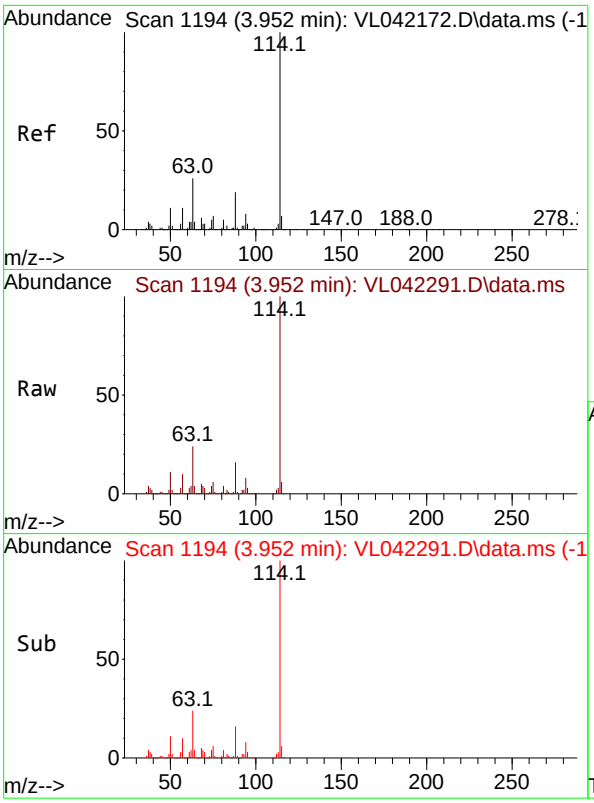



#26
Hexane
Concen: 1.358 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042291.D
Acq: 09 Apr 2025 14:02

Tgt Ion: 57 Resp: 29831

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 111.8 | 76.6 | 114.8 |
| 43 | 85.5 | 207.8 | 311.8# |
| 56 | 64.7 | 43.6 | 65.4 |






#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042291.D
Acq: 09 Apr 2025 14:02

Tgt Ion:114 Resp: 39745

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.5 | 20.7 | 31.1 |
| 88 | 17.2 | 15.0 | 22.4 |

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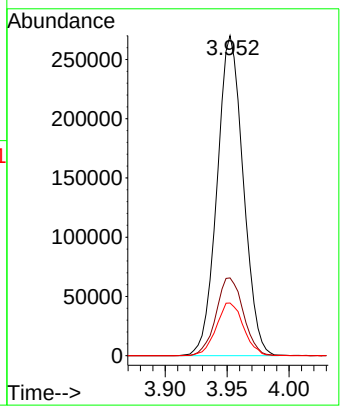
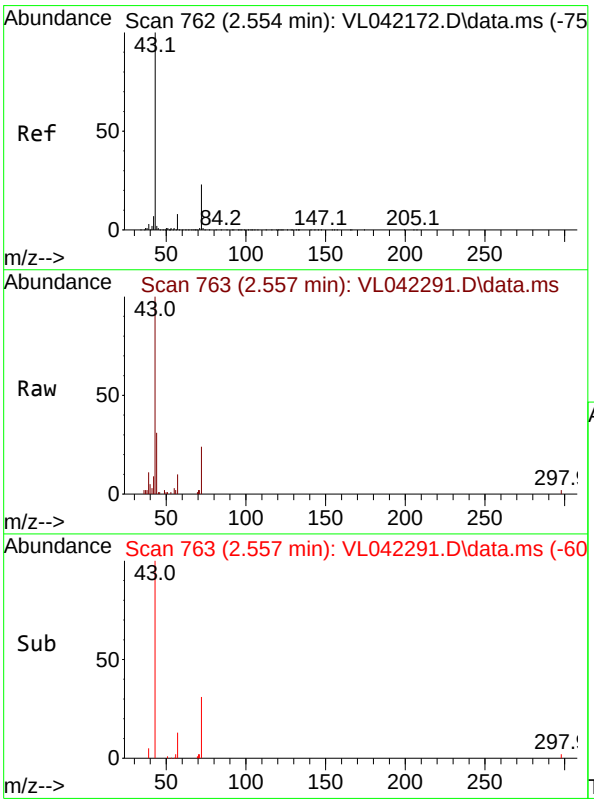
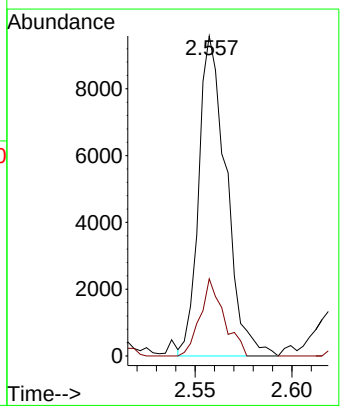


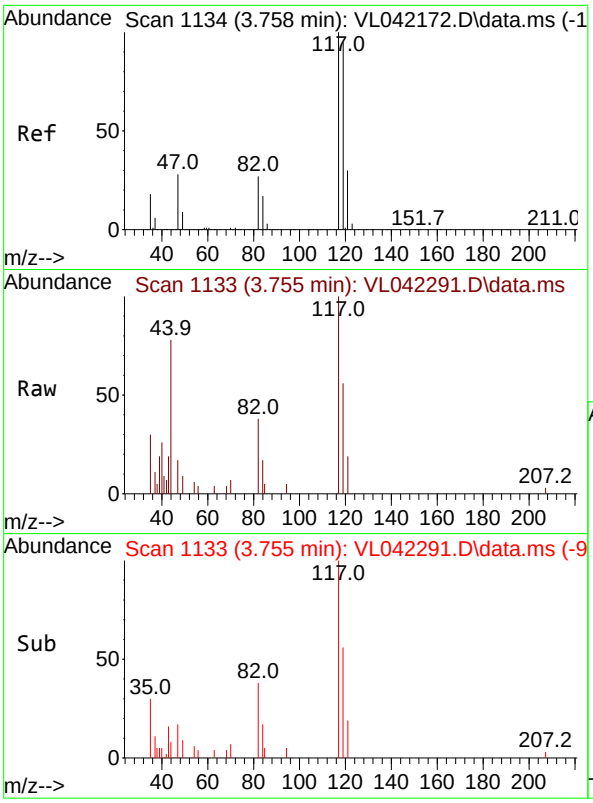




#34
2-Butanone
Concen: 0.329 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.003 min
Lab File: VL042291.D
Acq: 09 Apr 2025 14:02

Tgt Ion: 43 Resp: 9468

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 20.8 | 18.2 | 27.2 |

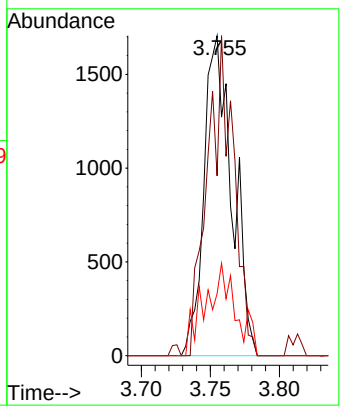





#35
Carbon Tetrachloride
Concen: 0.078 ppbv m
RT: 3.755 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042291.D
Acq: 09 Apr 2025 14:02

Tgt Ion:117 Resp: 241

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 56.2 | 76.2 | 114.2# |
| 121 | 19.4 | 24.2 | 36.4# |

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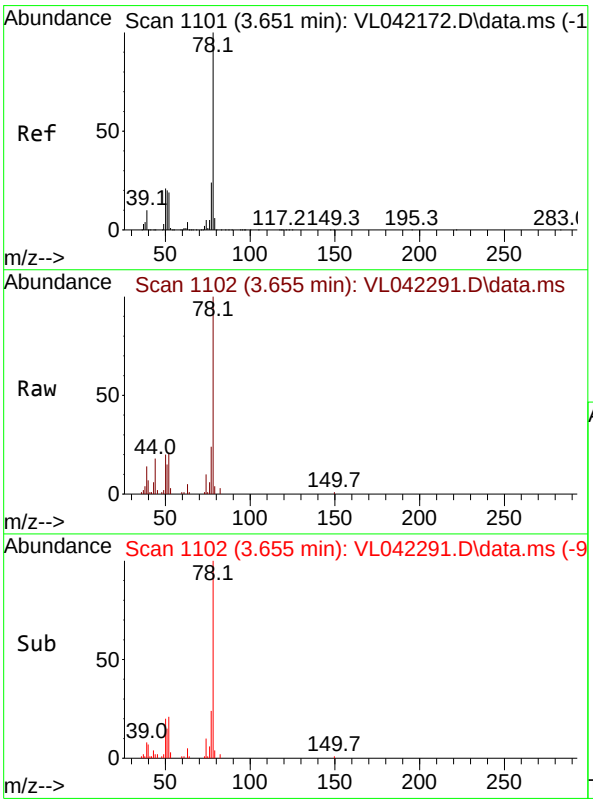
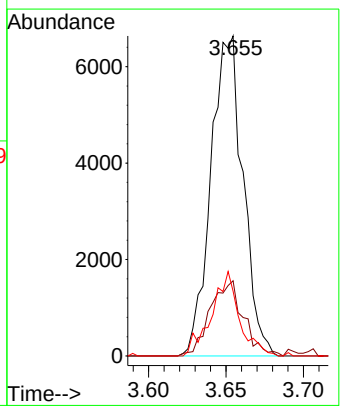
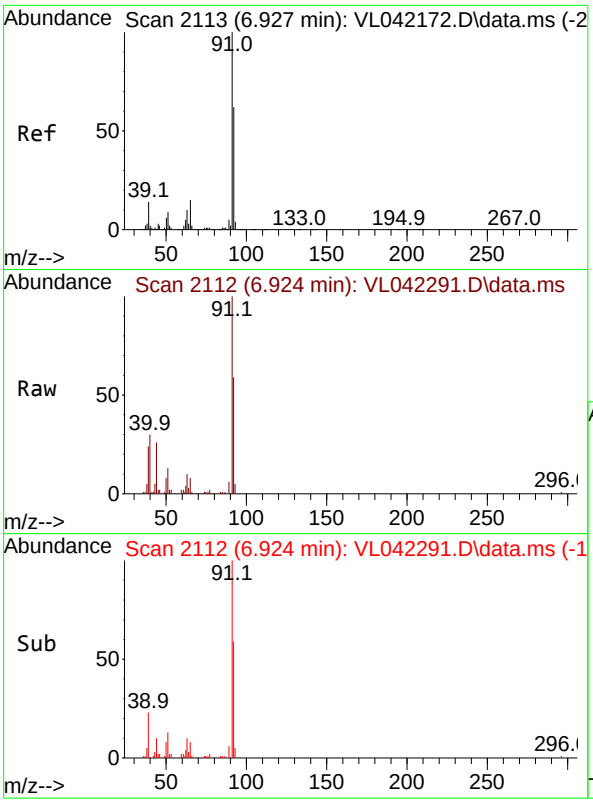



#36
Benzene
Concen: 0.244 ppbv
RT: 3.655 min Scan# 1102
Delta R.T. 0.003 min
Lab File: VL042291.D
Acq: 09 Apr 2025 14:02

Tgt Ion: 78 Resp: 9601

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.5 | 19.1 | 28.7 |
| 50 | 20.3 | 16.6 | 24.8 |






#53
Toluene
Concen: 0.277 ppbv
RT: 6.924 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042291.D
Acq: 09 Apr 2025 14:02

Tgt Ion: 91 Resp: 1295

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 63.2 | 48.4 | 72.6 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
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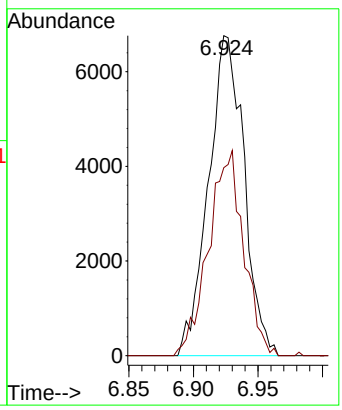
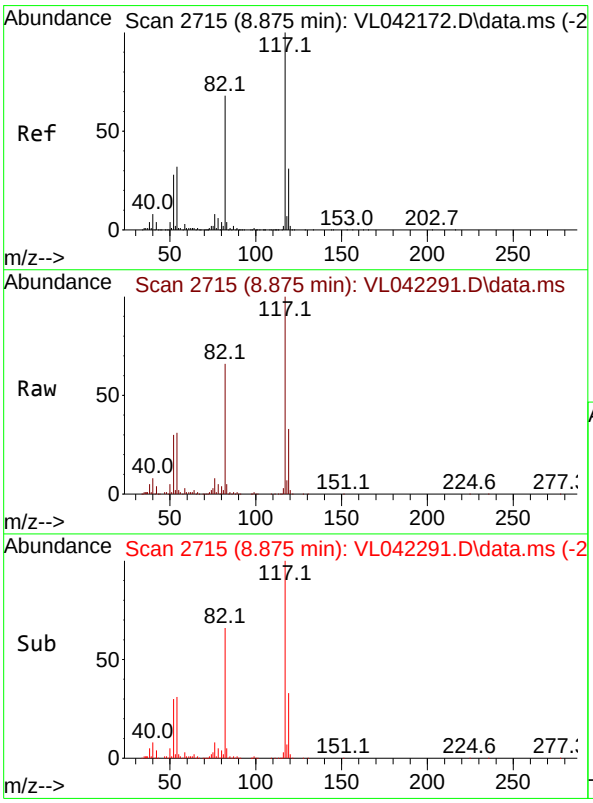
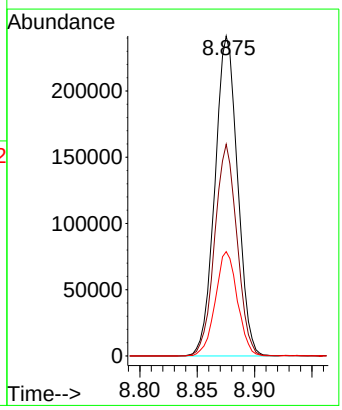


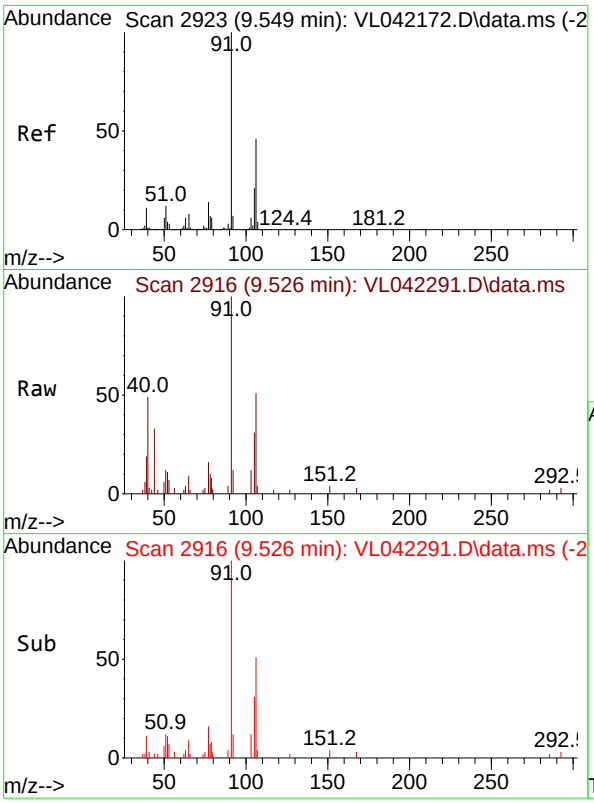




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. -0.000 min
Lab File: VL042291.D
Acq: 09 Apr 2025 14:02

Tgt Ion:117 Resp: 332015

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 65.3 | 55.8 | 83.6 |
| 119 | 31.8 | 25.5 | 38.3 |






#59
m/p-Xylene
Concen: 0.119 ppbv m
RT: 9.526 min Scan# 2
Delta R.T. -0.023 min
Lab File: VL042291.D
Acq: 09 Apr 2025 14:02

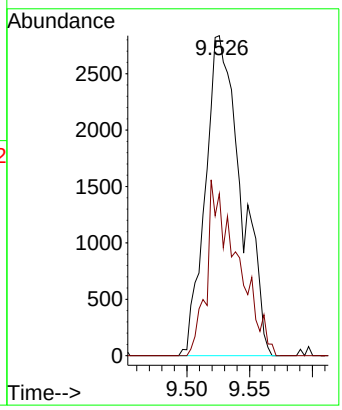
Tgt Ion: 91 Resp: 562

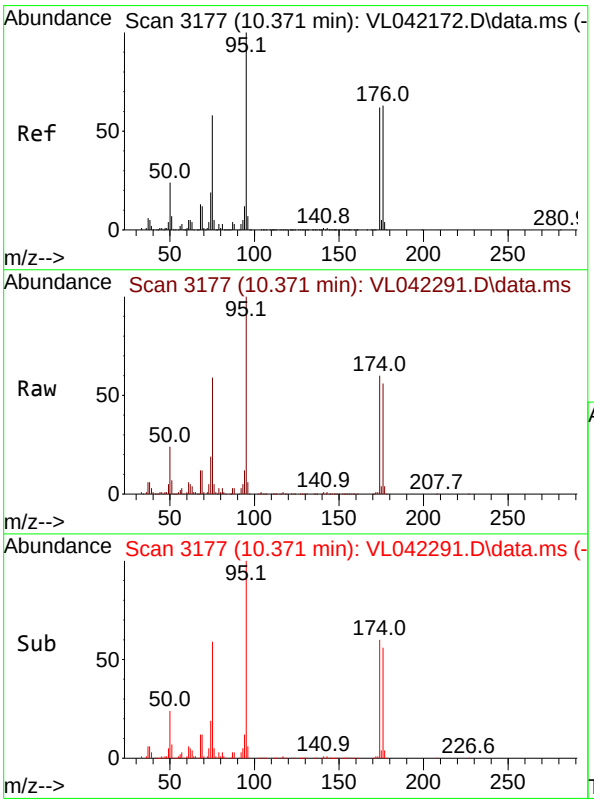
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 0.0 | 36.4 | 54.6 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025DUP

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

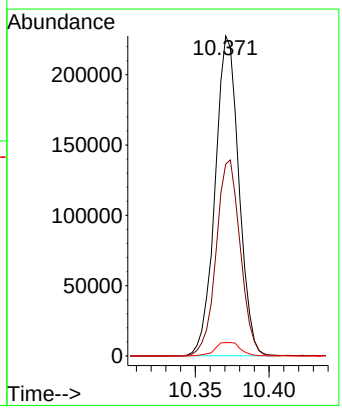



#68
1-Bromo-4-Fluorobenzene
Concen: 9.346 ppbv
RT: 10.371 min Scan# 3177
Delta R.T. -0.000 min
Lab File: VL042291.D
Acq: 09 Apr 2025 14:02

Tgt Ion: 95 Resp: 254829

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 62.4 | 50.6 | 76.0 |
| 175 | 4.5 | 3.8 | 5.6 |



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 04/11/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 04/11/25 |
| Client Sample ID: | IA-B10-2-3242025DUP | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-03DUP | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042318.D | 1 | | 04/11/25 13:52 | VL041125 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.42 | 2.08 | J | 1.04 | 2.47 | ug/m3 |
| 64-17-5 | Ethanol | 1300 | 2450 | E | 0.60 | 0.94 | ug/m3 |
| 74-87-3 | Chloromethane | 0.59 | 1.22 | | 0.21 | 1.03 | ug/m3 |
| 75-01-4 | Vinyl Chloride | 0.010 | 0.030 | U | 0.030 | 0.080 | ug/m3 |
| 74-83-9 | Bromomethane | 0.14 | 0.54 | U | 0.54 | 1.94 | ug/m3 |
| 75-00-3 | Chloroethane | 0.17 | 0.45 | U | 0.45 | 1.32 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | 0.13 | 0.38 | U | 0.38 | 1.47 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | 0.22 | 1.24 | J | 0.90 | 2.81 | ug/m3 |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.16 | 1.23 | U | 1.23 | 3.83 | ug/m3 |
| 76-14-2 | Dichlorotetrafluoroethane | 0.090 | 0.63 | U | 0.63 | 3.49 | ug/m3 |
| 593-60-2 | Bromoethene | 0.12 | 0.52 | U | 0.52 | 2.19 | ug/m3 |
| 75-65-0 | tert-Butyl alcohol | 0.46 | 1.39 | J | 0.58 | 1.52 | ug/m3 |
| 142-82-5 | Heptane | 0.19 | 0.78 | J | 0.45 | 2.05 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | 83.2 | 205 | E | 0.17 | 1.23 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethene | 0.14 | 0.56 | U | 0.56 | 1.98 | ug/m3 |
| 67-64-1 | Acetone | 82.1 | 195 | E | 0.57 | 1.19 | ug/m3 |
| 75-15-0 | Carbon Disulfide | 0.16 | 0.50 | U | 0.50 | 1.56 | ug/m3 |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.12 | 0.43 | U | 0.43 | 1.80 | ug/m3 |
| 75-09-2 | Methylene Chloride | 1.60 | 5.56 | | 0.66 | 1.74 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.19 | 0.75 | U | 0.75 | 1.98 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | 0.13 | 0.53 | U | 0.53 | 2.02 | ug/m3 |
| 110-82-7 | Cyclohexane | 0.22 | 0.76 | U | 0.76 | 1.72 | ug/m3 |
| 78-93-3 | 2-Butanone | 26.6 | 78.5 | E | 0.35 | 1.47 | ug/m3 |
| 56-23-5 | Carbon Tetrachloride | 0.090 | 0.57 | | 0.060 | 0.19 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.090 | 0.36 | U | 0.36 | 1.98 | ug/m3 |
| 67-66-3 | Chloroform | 1.40 | 6.84 | | 0.39 | 2.44 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.010 | 0.050 | U | 0.050 | 0.16 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | 0.10 | 0.47 | U | 0.47 | 2.34 | ug/m3 |
| 71-43-2 | Benzene | 0.60 | 1.92 | | 0.29 | 1.60 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | 0.090 | 0.36 | U | 0.36 | 2.02 | ug/m3 |
| 79-01-6 | Trichloroethene | 0.020 | 0.11 | U | 0.11 | 0.16 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | 0.11 | 0.51 | U | 0.51 | 2.31 | ug/m3 |
| 75-27-4 | Bromodichloromethane | 0.080 | 0.54 | U | 0.54 | 3.35 | ug/m3 |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.090 | 0.37 | U | 0.37 | 2.05 | ug/m3 |
| 108-88-3 | Toluene | 0.51 | 1.92 | | 0.41 | 1.88 | ug/m3 |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 04/11/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 04/11/25 |
| Client Sample ID: | IA-B10-2-3242025DUP | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-03DUP | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042318.D | 1 | | 04/11/25 13:52 | VL041125 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.060 | 0.27 | U | 0.27 | 2.27 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.060 | 0.27 | U | 0.27 | 2.27 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.070 | 0.38 | U | 0.38 | 2.73 | ug/m3 |
| 124-48-1 | Dibromochloromethane | 0.070 | 0.60 | U | 0.60 | 4.26 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane | 0.070 | 0.54 | U | 0.54 | 0.77 | ug/m3 |
| 127-18-4 | Tetrachloroethene | 0.040 | 0.27 | | 0.14 | 0.20 | ug/m3 |
| 108-90-7 | Chlorobenzene | 0.080 | 0.37 | U | 0.37 | 2.30 | ug/m3 |
| 100-41-4 | Ethyl Benzene | 0.12 | 0.52 | U | 0.52 | 2.17 | ug/m3 |
| 179601-23-1 | m/p-Xylene | 0.20 | 0.87 | U | 0.91 | 4.34 | ug/m3 |
| 95-47-6 | o-Xylene | 0.12 | 0.52 | J | 0.52 | 2.17 | ug/m3 |
| 100-42-5 | Styrene | 0.11 | 0.47 | U | 0.47 | 2.13 | ug/m3 |
| 75-25-2 | Bromoform | 0.060 | 0.62 | U | 0.62 | 5.17 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.010 | 0.070 | U | 0.070 | 0.21 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | 0.11 | 0.57 | U | 0.57 | 2.59 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.11 | 0.54 | U | 0.54 | 2.46 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.13 | 0.64 | J | 0.39 | 2.46 | ug/m3 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.080 | 0.48 | U | 0.48 | 3.01 | ug/m3 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.050 | 0.30 | U | 0.30 | 3.01 | ug/m3 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.080 | 0.48 | U | 0.48 | 3.01 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.090 | 0.67 | U | 0.67 | 3.71 | ug/m3 |
| 87-68-3 | Hexachloro-1,3-Butadiene | 0.090 | 0.96 | U | 0.96 | 5.33 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | 0.13 | 0.29 | U | 0.29 | 1.11 | ug/m3 |
| 91-20-3 | Naphthalene | 0.080 | 0.42 | U | 0.42 | 0.52 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | 0.12 | 0.59 | U | 0.59 | 2.46 | ug/m3 |
| 110-54-3 | Hexane | 2.70 | 9.52 | | 0.39 | 1.76 | ug/m3 |
| 107-05-1 | Allyl Chloride | 0.15 | 0.47 | U | 0.47 | 1.57 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | 0.21 | 0.76 | U | 0.76 | 1.80 | ug/m3 |
| 80-62-6 | Methyl Methacrylate | 0.090 | 0.37 | U | 0.37 | 2.05 | ug/m3 |
| **SURROGATES** | | | | | | | |
| 460-00-4 | 1-Bromo-4-Fluorobenzene | 9.70 | | | 70 (65) - 130 (135) | 97% | SPK: 10 |
| **INTERNAL STANDARDS** | | | | | | | |
| 74-97-5 | Bromochloromethane | 183000 | | 2.787 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 443000 | | 3.958 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 381000 | | 8.881 | | | |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Woodard & Curran | Date Collected: | 04/11/25 |
| Project: | US EPA Riverside Industrial Park Superfund Site | Date Received: | 04/11/25 |
| Client Sample ID: | IA-B10-2-3242025DUP | SDG No.: | Q1665 |
| Lab Sample ID: | Q1665-03DUP | Matrix: | Air |
| Analytical Method: | TO-15 | Test: | TO-15 |
| Sample Wt/Vol: | 400 Units: mL | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VL042318.D | 1 | | 04/11/25 13:52 | VL041125 |

| CAS Number | Parameter | Conc. ppbv | Conc. ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042318.D
Acq On : 11 Apr 2025 13:52
Operator : SY/MD
Sample : Q1665-03DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 11 22:59:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025DUP

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) Bromochloromethane | 2.787 | 49 | 183054 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.958 | 114 | 442590 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.881 | 117 | 380933 | 10.000 | ppbv | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95 | 304733 | 9.741 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 97.400% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.499 | 85 | 11308 | 0.418 | ppbv | | 97 |
| 4) Chloromethane | 1.531 | 50 | 6464 | 0.585 | ppbv | # | 84 |
| 9) Propene | 1.486 | 41 | 56403m | 4.457 | ppbv | | |
| 10) Heptane | 4.981 | 43 | 6238m | 0.185 | ppbv | | |
| 11) Trichlorofluoromethane | 1.877 | 101 | 5756 | 0.219 | ppbv | | 90 |
| 13) Ethanol | 1.722 | 45 | 1578950 | 1319.793 | ppbv | | 94 |
| 15) Acetone | 1.832 | 43 | 2101760 | 82.096 | ppbv | # | 77 |
| 17) tert-Butyl alcohol | 2.042 | 59 | 14809m | 0.464 | ppbv | | |
| 19) Isopropyl Alcohol | 1.887 | 45 | 1201240 | 83.161 | ppbv | # | 60 |
| 20) Methylene Chloride | 2.059 | 84 | 15544 | 1.630 | ppbv | | 90 |
| 26) Hexane | 2.826 | 57 | 69684 | 2.715 | ppbv | | 93 |
| 29) Chloroform | 2.848 | 83 | 51580 | 1.373 | ppbv | | 99 |
| 34) 2-Butanone | 2.557 | 43 | 853001 | 26.579 | ppbv | | 99 |
| 35) Carbon Tetrachloride | 3.768 | 117 | 3050m | 0.088 | ppbv | | |
| 36) Benzene | 3.654 | 78 | 26349 | 0.601 | ppbv | | 94 |
| 52) Tetrachloroethene | 8.218 | 164 | 626m | 0.036 | ppbv | | |
| 53) Toluene | 6.936 | 91 | 26345m | 0.507 | ppbv | | |
| 59) m/p-Xylene | 9.529 | 91 | 10928m | 0.202 | ppbv | | |
| 60) o-Xylene | 9.962 | 91 | 6311m | 0.117 | ppbv | | |
| 74) 1,2,4-Trimethylbenzene | 11.535 | 105 | 8971 | 0.132 | ppbv | # | 75 |

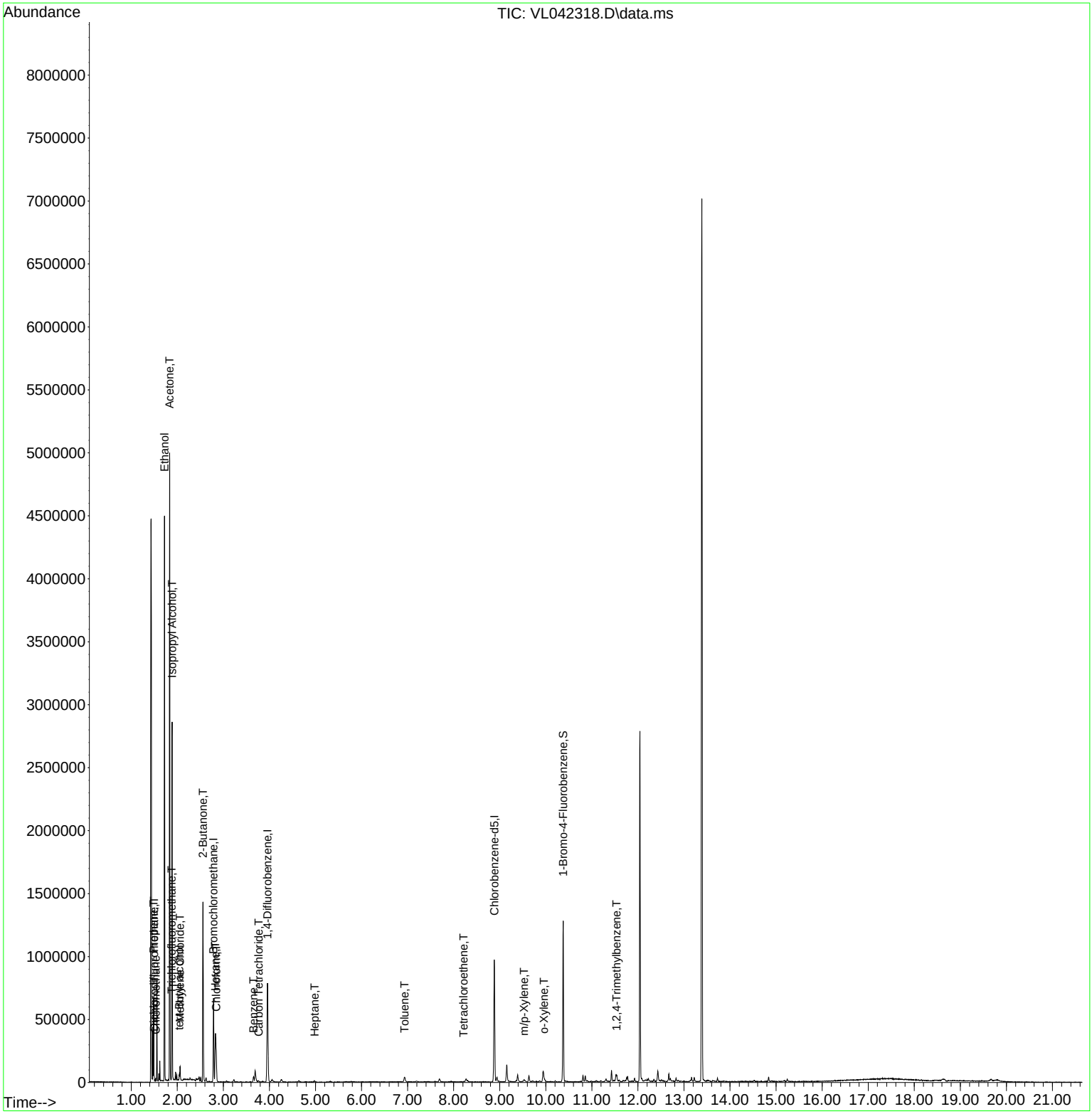
(#) = qualifier out of range (m) = manual integration (+) = signals summed

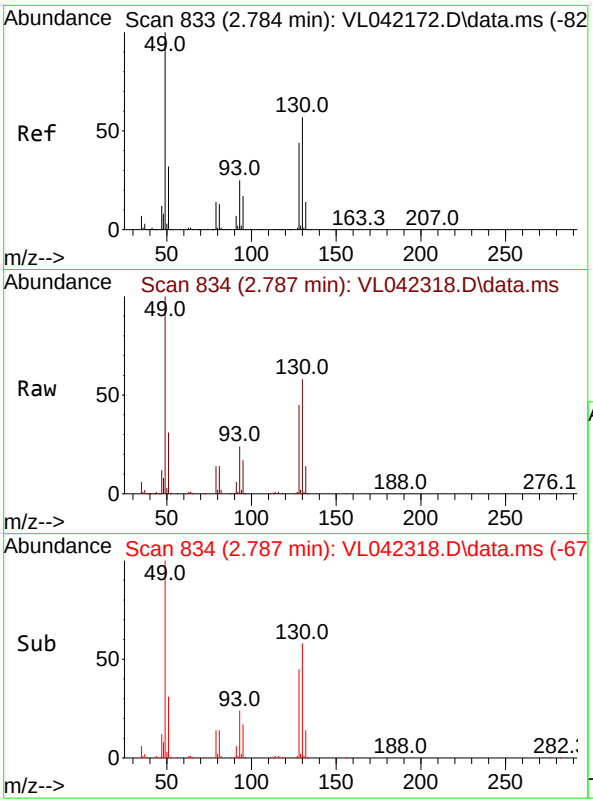
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042318.D
Acq On : 11 Apr 2025 13:52
Operator : SY/MD
Sample : Q1665-03DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 11 22:59:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025DUP

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

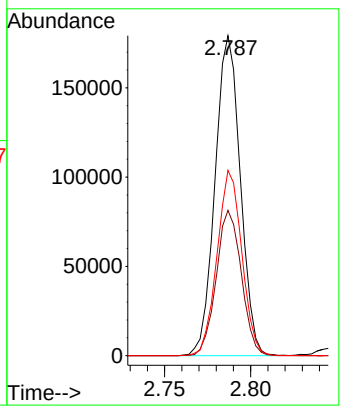





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

Tgt Ion: 49 Resp: 18305

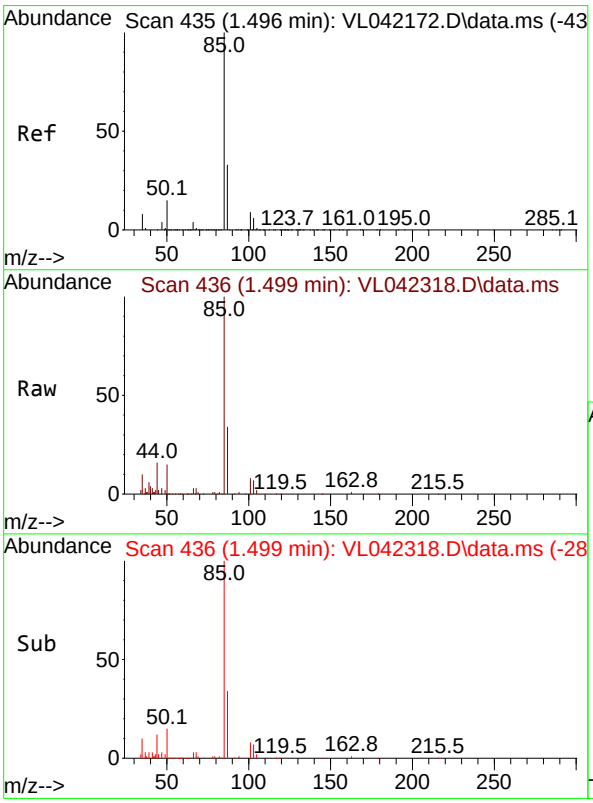
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 45.1 | 22.9 | 68.5 |
| 130 | 56.7 | 28.8 | 86.4 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025DUP

**Manual Integrations**
**APPROVED**

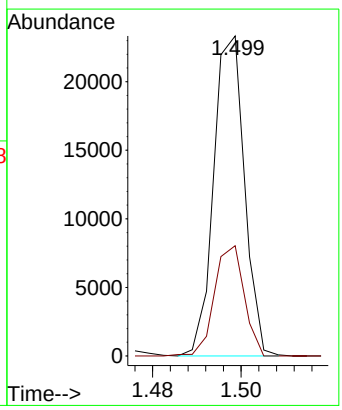
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

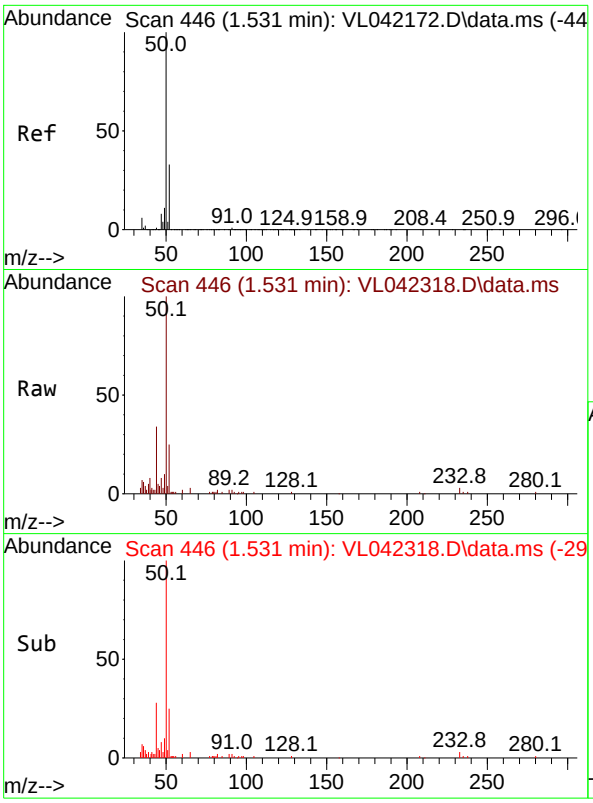



#2
Dichlorodifluoromethane
Concen: 0.418 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

Tgt Ion: 85 Resp: 11308

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 34.5 | 26.1 | 39.1 |






#4
Chloromethane
Concen: 0.585 ppbv
RT: 1.531 min Scan# 44
Delta R.T. -0.000 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

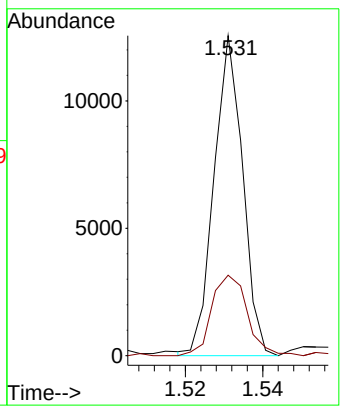
Tgt Ion: 50 Resp: 6464

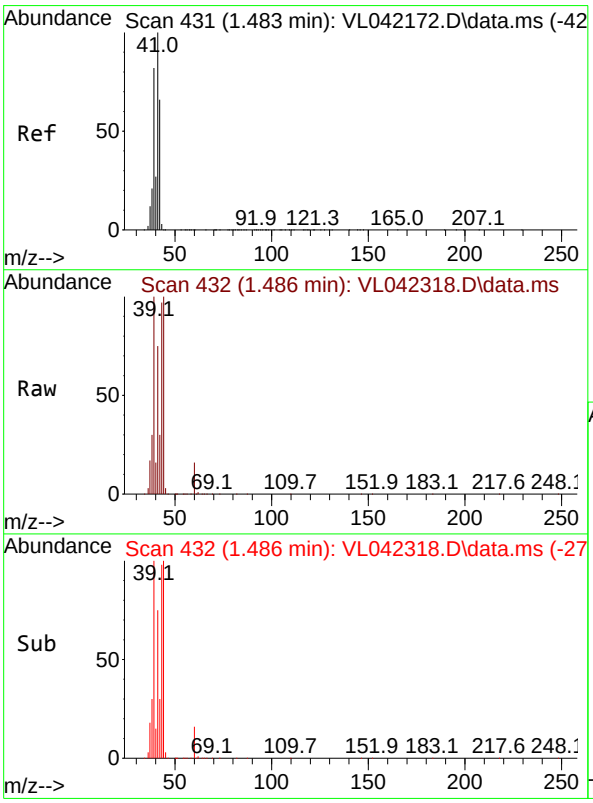
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 23.7 | 26.1 | 39.1# |

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025DUP

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

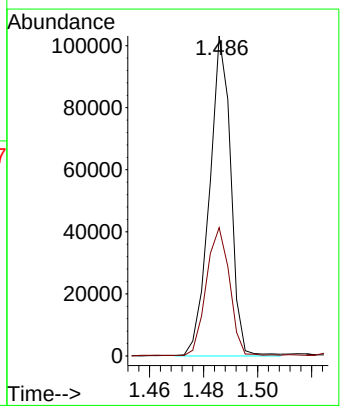


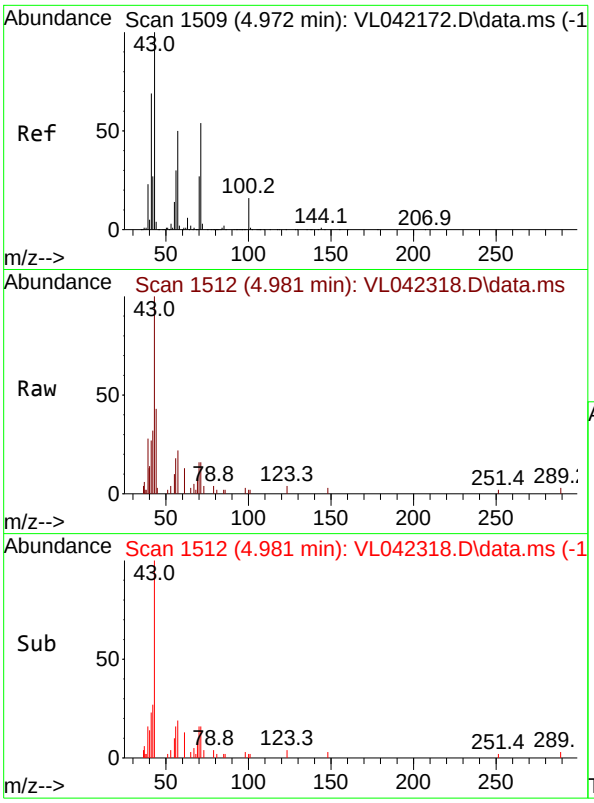




#9
Propene
Concen: 4.457 ppbv m
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

Tgt Ion: 41 Resp: 56403

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 128.5 | 55.4 | 83.2# |

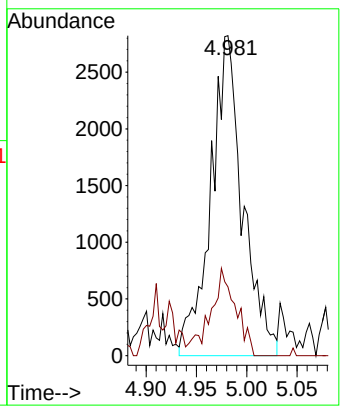





#10
Heptane
Concen: 0.185 ppbv m
RT: 4.981 min Scan# 1
Delta R.T. 0.009 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

Tgt Ion: 43 Resp: 623

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 21.3 | 39.4 | 59.2 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025DUP

**Manual Integrations**
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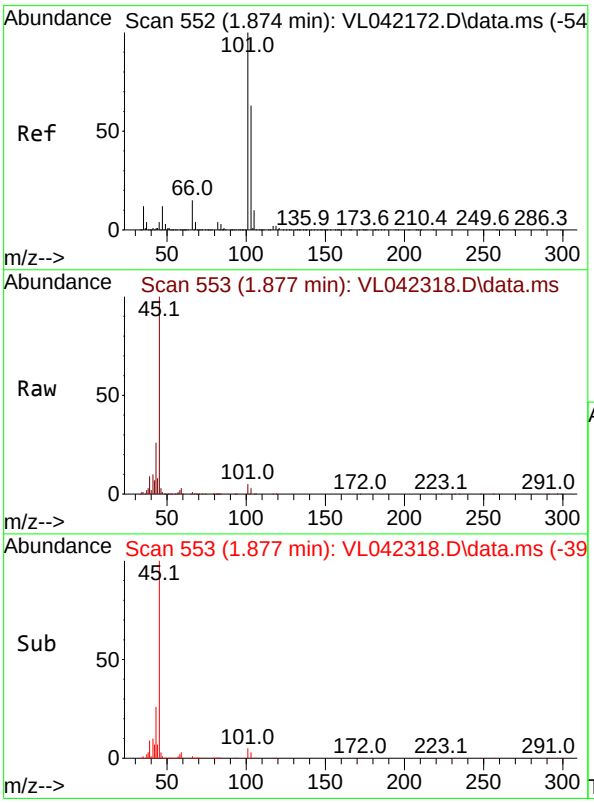
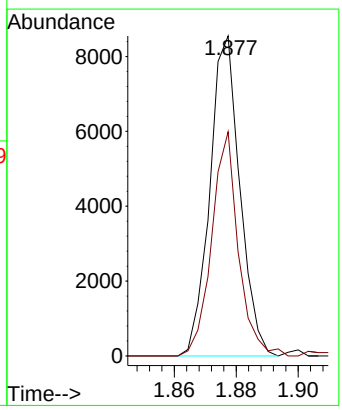
Supervised By :Mahesh Dadoda 04/17/2025

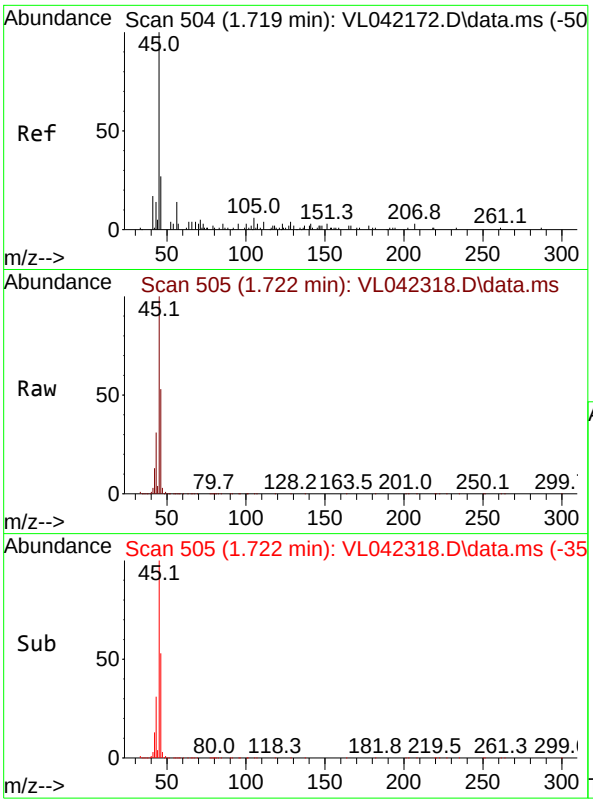



#11
Trichlorofluoromethane
Concen: 0.219 ppbv
RT: 1.877 min Scan# 553
Delta R.T. 0.003 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

Tgt Ion:101 Resp: 5756

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 70.1 | 50.2 | 75.2 |






#13
Ethanol
Concen: 1319.793 ppbv
RT: 1.722 min Scan# 5(
Delta R.T. 0.003 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

Tgt Ion: 45 Resp: 157895(

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 46.4 | 20.2 | 80.8 |

**Instrument :**
MSVOA_L
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IA-B10-2-3242025DUP

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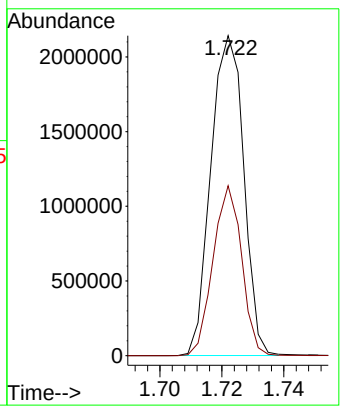
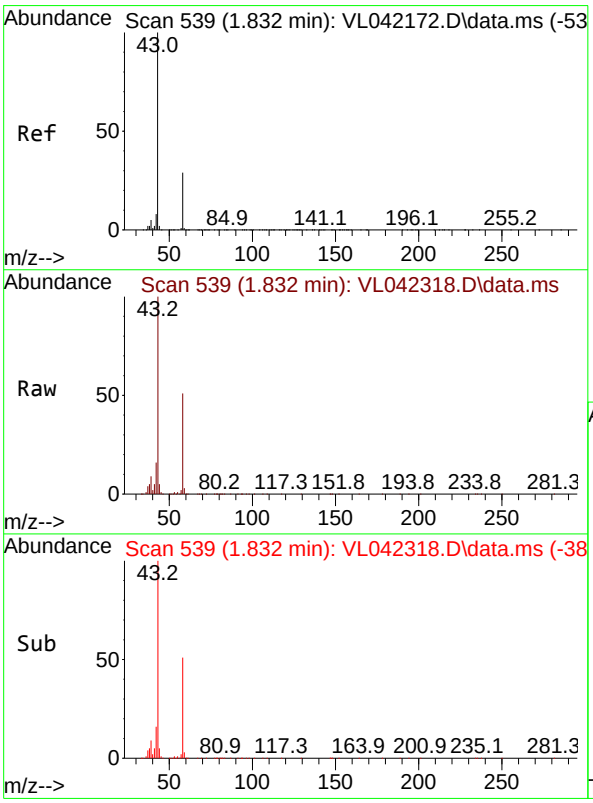
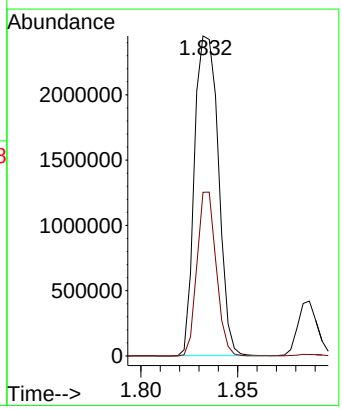


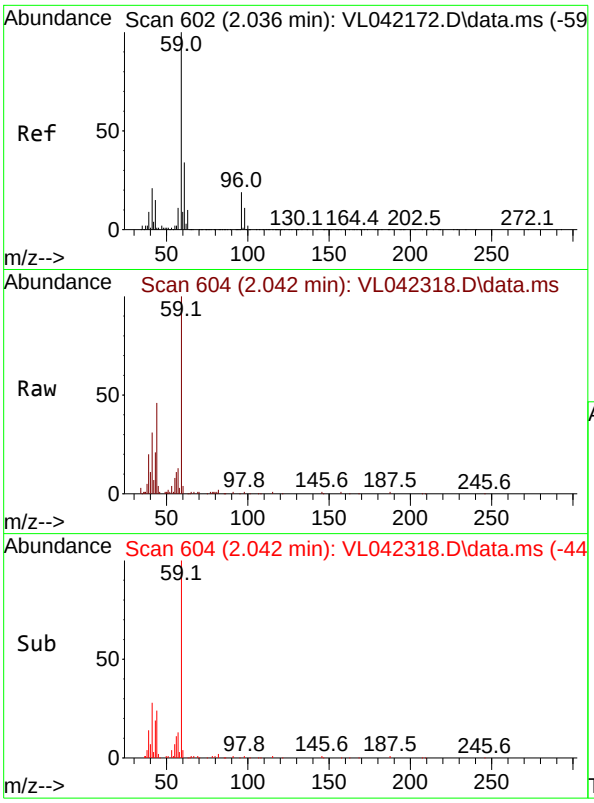




#15
Acetone
Concen: 82.096 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.000 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

Tgt Ion: 43 Resp: 2101760

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 41.3 | 23.2 | 34.8# |

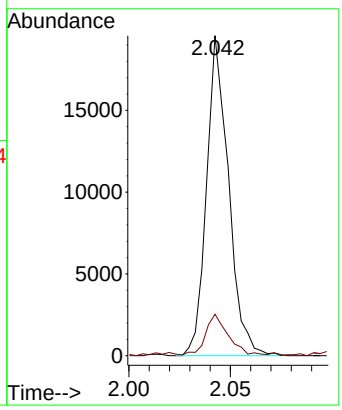





#17
tert-Butyl alcohol
Concen: 0.464 ppbv m
RT: 2.042 min Scan# 6
Delta R.T. 0.006 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

Tgt Ion: 59 Resp: 1480

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 30.4 | 8.9 | 13.3# |

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IA-B10-2-3242025DUP

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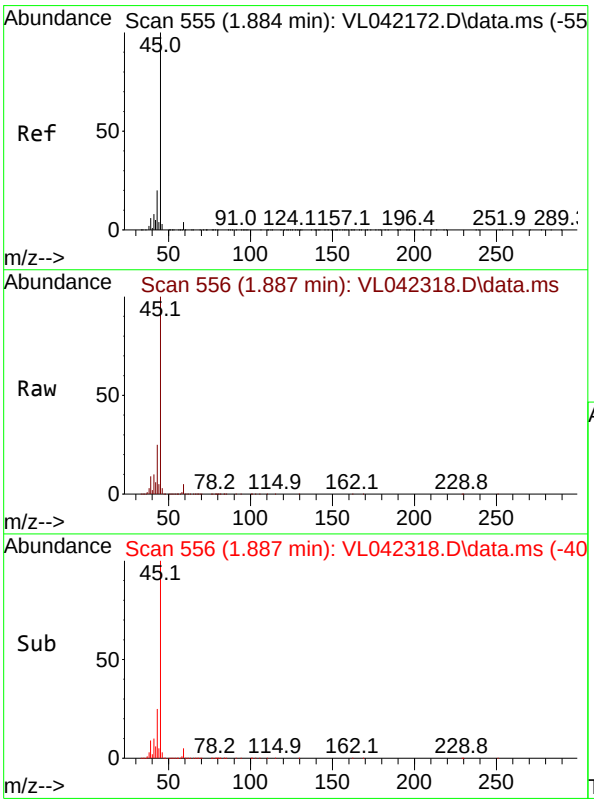
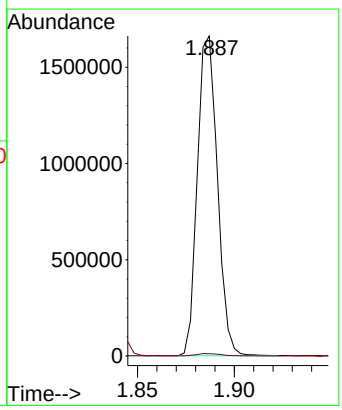
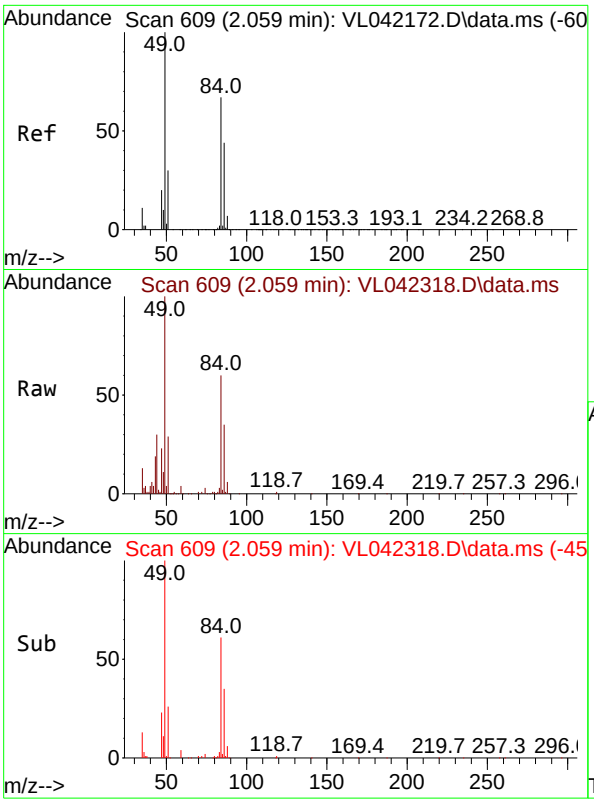



#19
Isopropyl Alcohol
Concen: 83.161 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

Tgt Ion: 45 Resp: 1201240

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 72.3 | 36.9 | 55.3# |

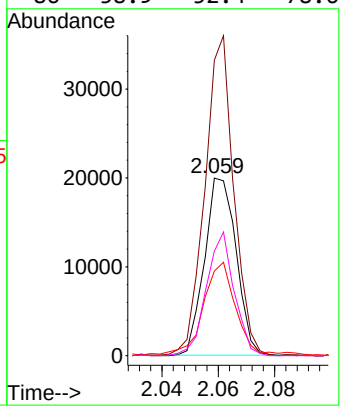





#20
Methylene Chloride
Concen: 1.630 ppbv
RT: 2.059 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

Tgt Ion: 84 Resp: 1554

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 166.8 | 120.2 | 180.4 |
| 51 | 46.4 | 37.4 | 56.0 |
| 86 | 58.9 | 52.4 | 78.6 |

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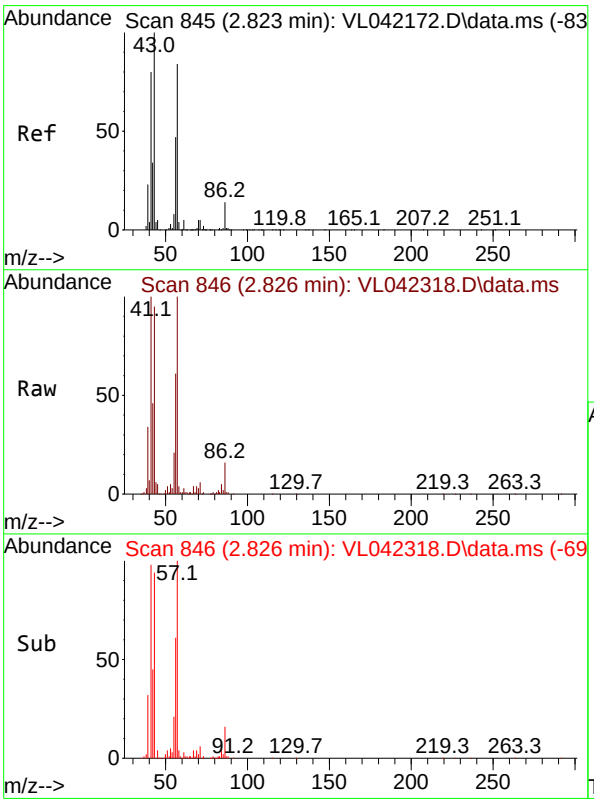
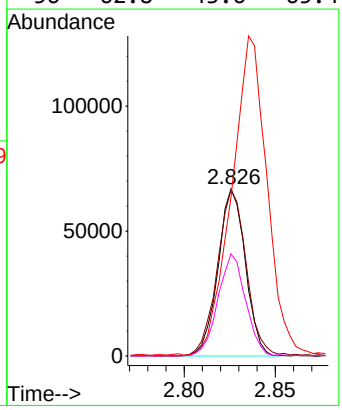
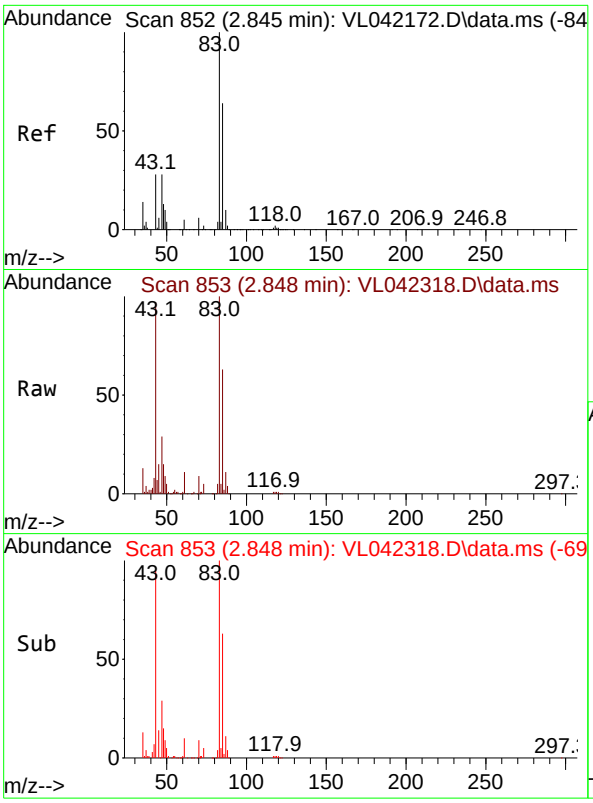



#26
Hexane
Concen: 2.715 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.003 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

Tgt Ion: 57 Resp: 69684

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 105.3 | 76.6 | 114.8 |
| 43 | 249.9 | 207.8 | 311.8 |
| 56 | 62.8 | 43.6 | 65.4 |






#29
Chloroform
Concen: 1.373 ppbv
RT: 2.848 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

Tgt Ion: 83 Resp: 5158

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.5 | 51.4 | 77.2 |

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025DUP

**Manual Integrations**
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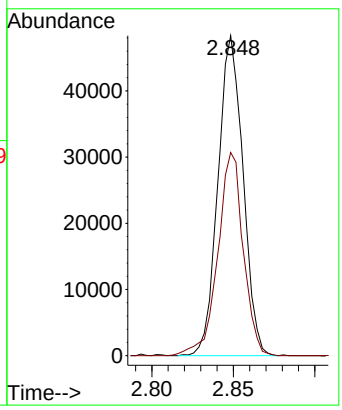
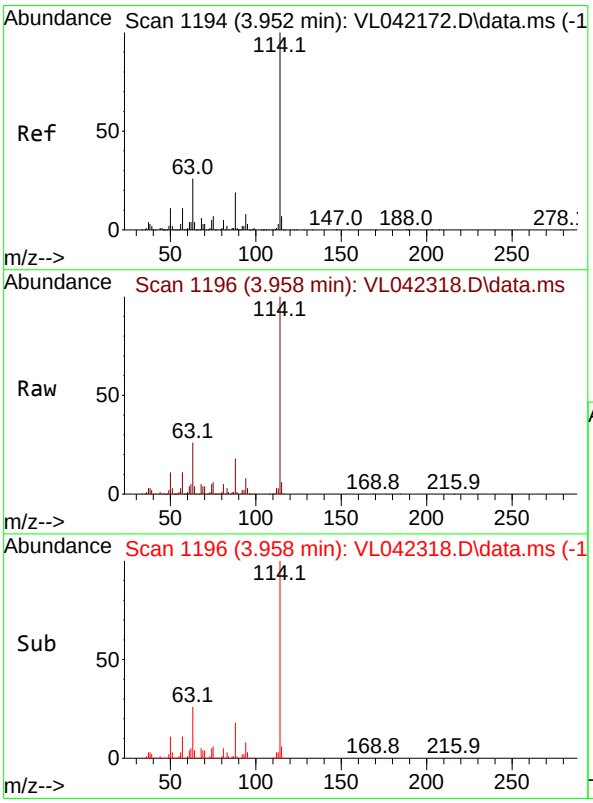
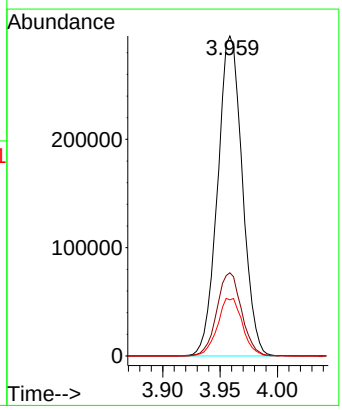


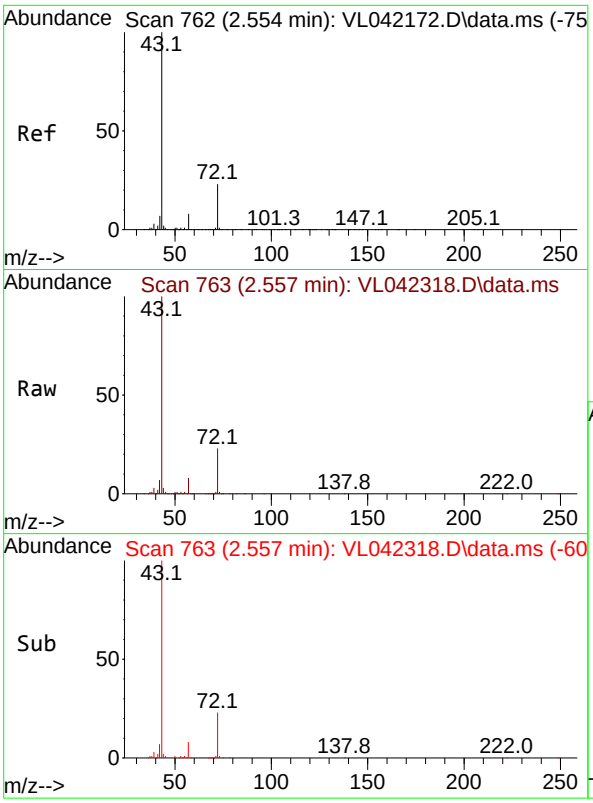




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.958 min Scan# 1196
Delta R.T. 0.006 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

Tgt Ion:114 Resp: 442590

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 26.1 | 20.7 | 31.1 |
| 88 | 18.2 | 15.0 | 22.4 |






#34
2-Butanone
Concen: 26.579 ppbv
RT: 2.557 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

Tgt Ion: 43 Resp: 85300

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 22.3 | 18.2 | 27.2 |

**Instrument :**
MSVOA_L
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IA-B10-2-3242025DUP

**Manual Integrations**
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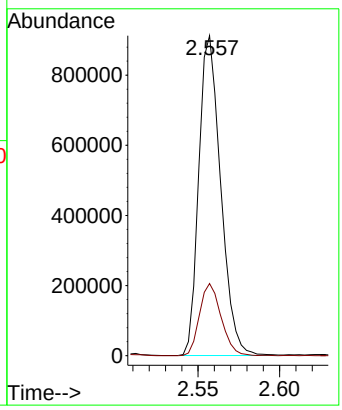
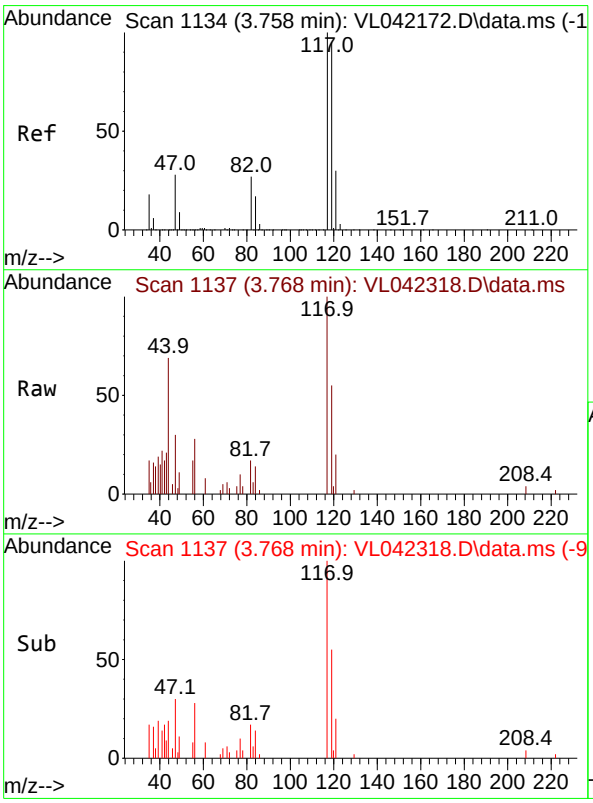
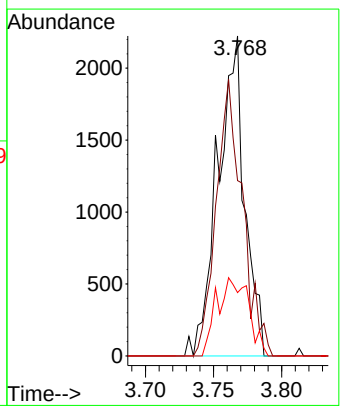


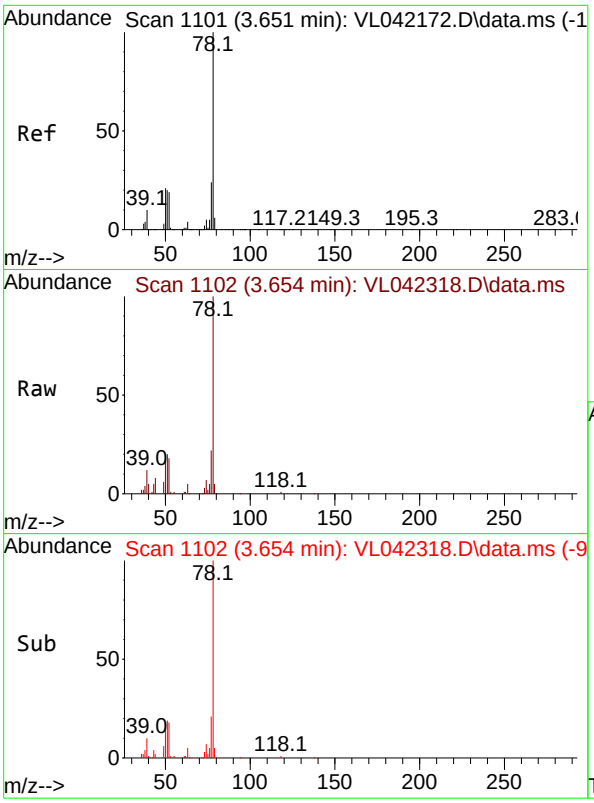




#35
Carbon Tetrachloride
Concen: 0.088 ppbv m
RT: 3.768 min Scan# 1137
Delta R.T. 0.009 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

Tgt Ion:117 Resp: 3050

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 54.8 | 76.2 | 114.2# |
| 121 | 19.8 | 24.2 | 36.4# |

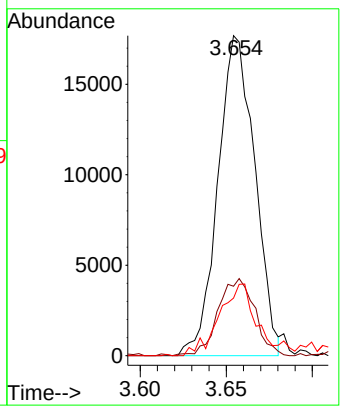





#36
Benzene
Concen: 0.601 ppbv
RT: 3.654 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

Tgt Ion: 78 Resp: 2634

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 21.2 | 19.1 | 28.7 |
| 50 | 18.0 | 16.6 | 24.8 |

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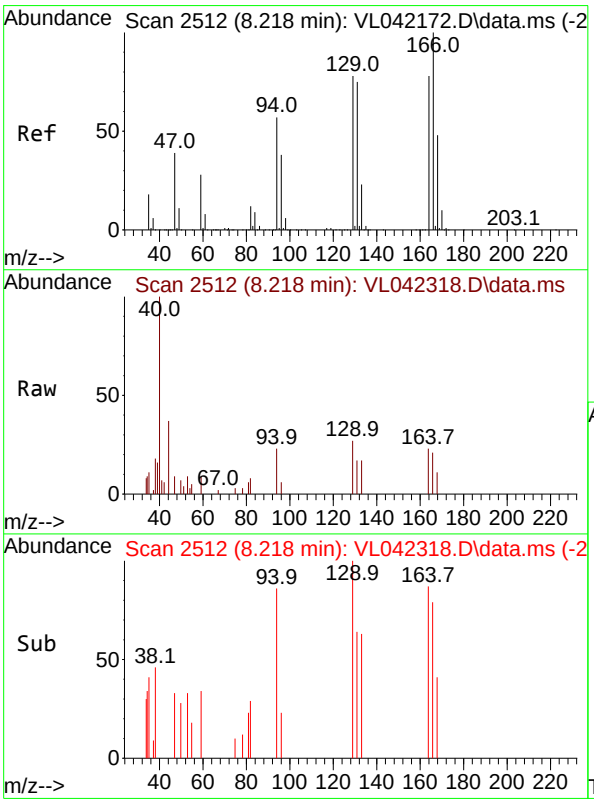
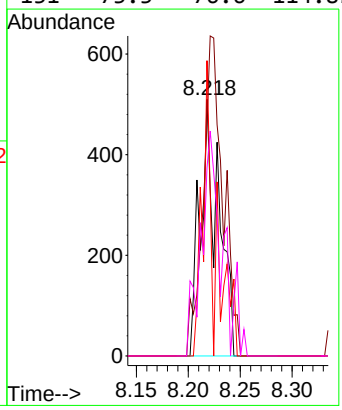
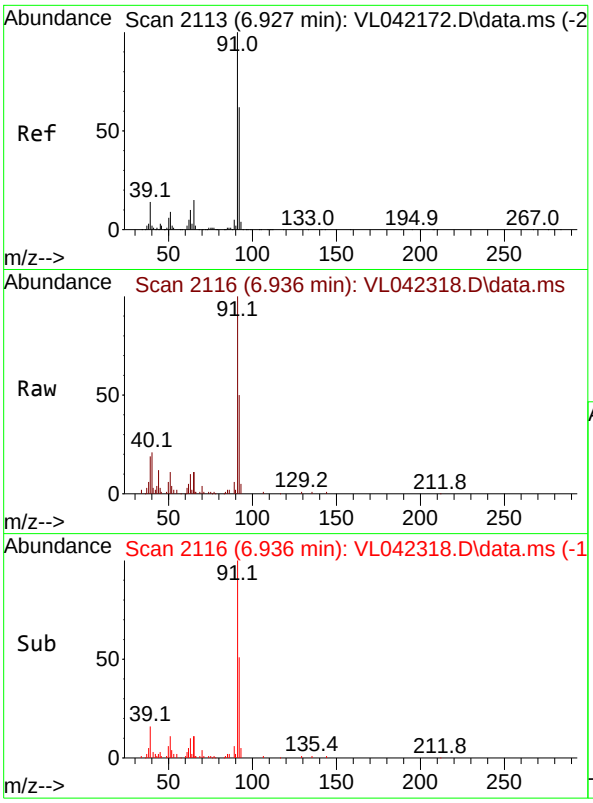



#52
Tetrachloroethene
Concen: 0.036 ppbv m
RT: 8.218 min Scan# 2512
Delta R.T. -0.000 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

Tgt Ion:164 Resp: 626

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 90.8 | 102.5 | 153.7# |
| 129 | 115.1 | 79.8 | 119.8 |
| 131 | 73.3 | 76.6 | 114.8# |

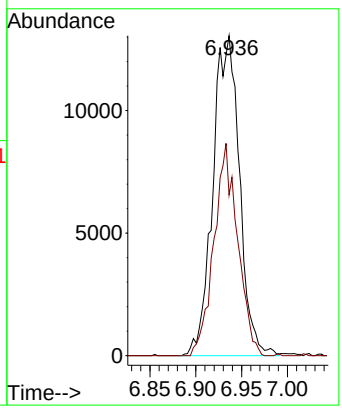





#53
Toluene
Concen: 0.507 ppbv m
RT: 6.936 min Scan# 21
Delta R.T. 0.009 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

Tgt Ion: 91 Resp: 2634

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 59.0 | 48.4 | 72.6 |

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IA-B10-2-3242025DUP

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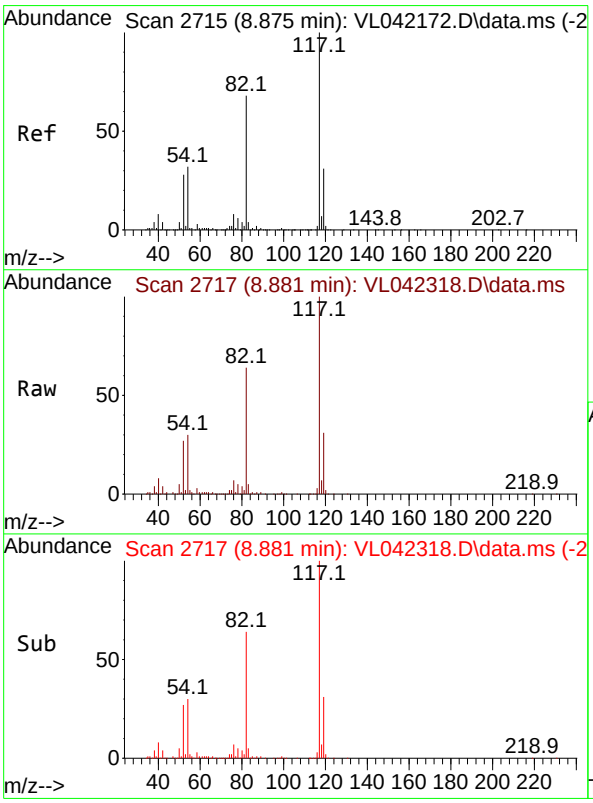
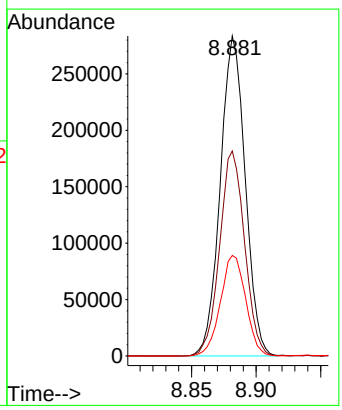
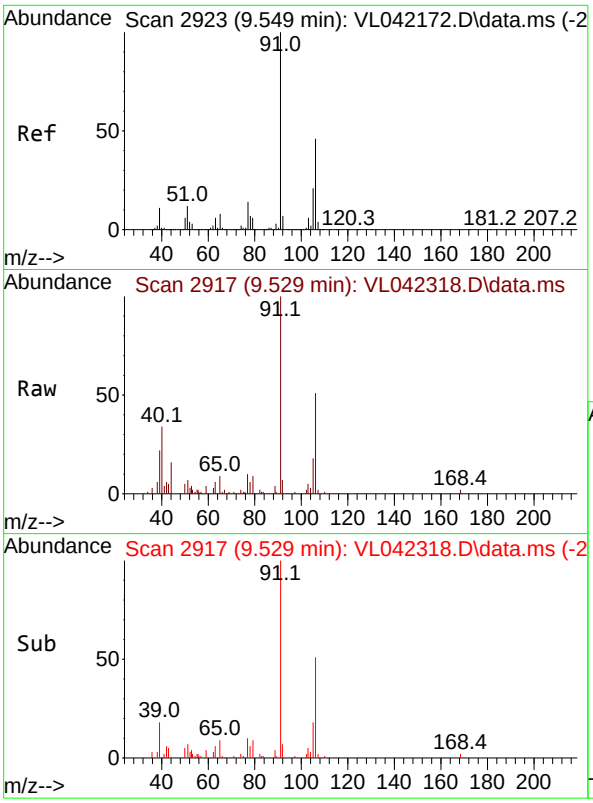



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 2717
Delta R.T. 0.006 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

Tgt Ion:117 Resp: 380933

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 64.2 | 55.8 | 83.6 |
| 119 | 31.9 | 25.5 | 38.3 |

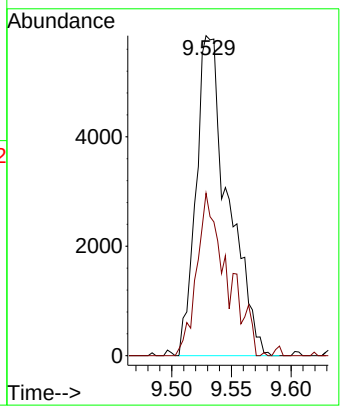





#59
m/p-Xylene
Concen: 0.202 ppbv m
RT: 9.529 min Scan# 2
Delta R.T. -0.020 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

Tgt Ion: 91 Resp: 1092

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 0.0 | 36.4 | 54.6 |

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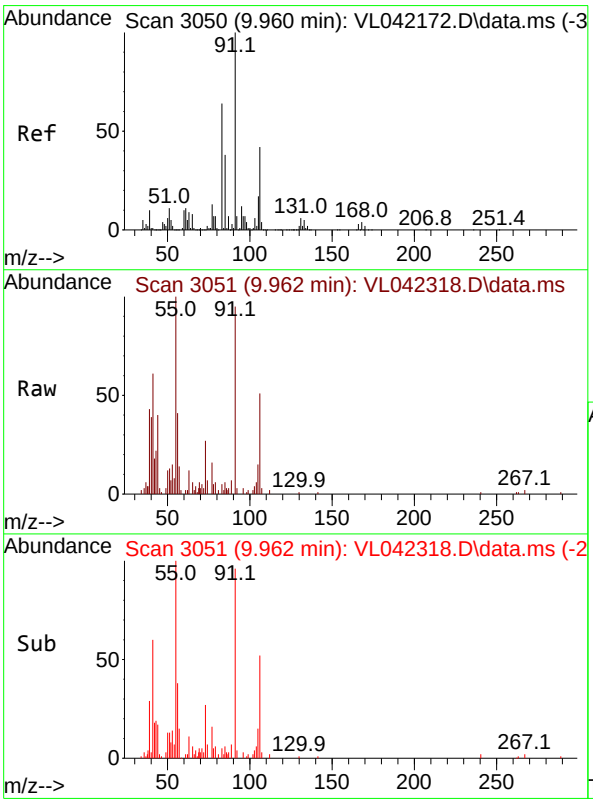
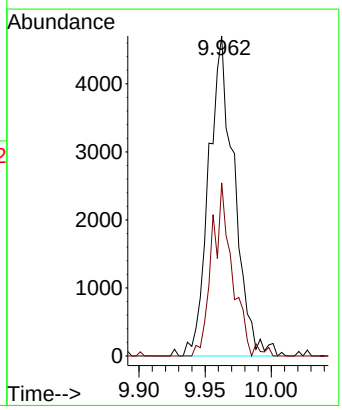
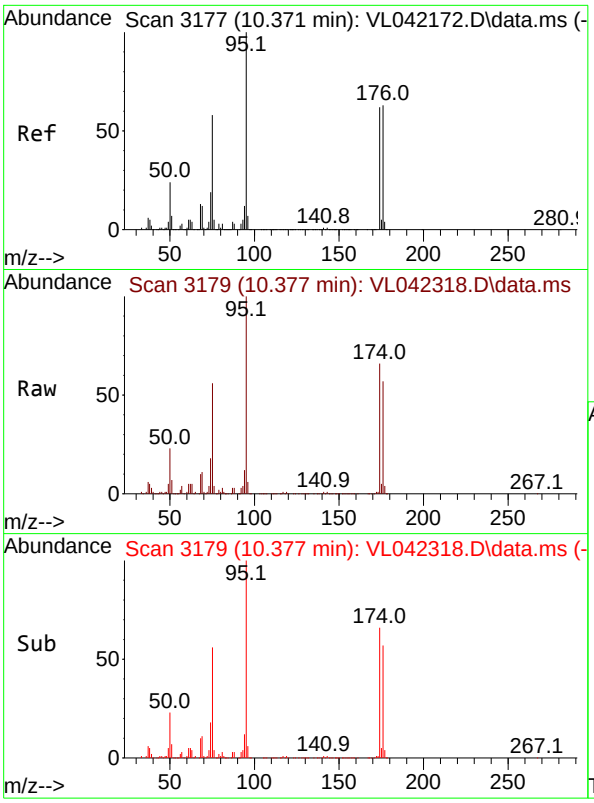



#60
o-Xylene
Concen: 0.117 ppbv m
RT: 9.962 min Scan# 3051
Delta R.T. 0.003 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

Tgt Ion: 91 Resp: 6311

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 43.6 | 20.8 | 62.5 |

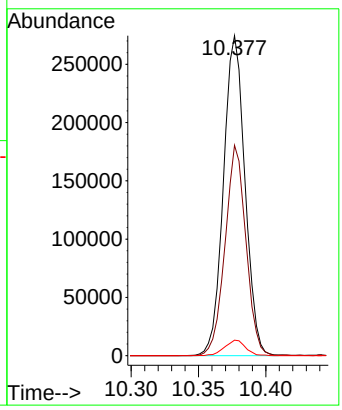





#68
1-Bromo-4-Fluorobenzene
Concen: 9.741 ppbv
RT: 10.377 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

Tgt Ion: 95 Resp: 30473

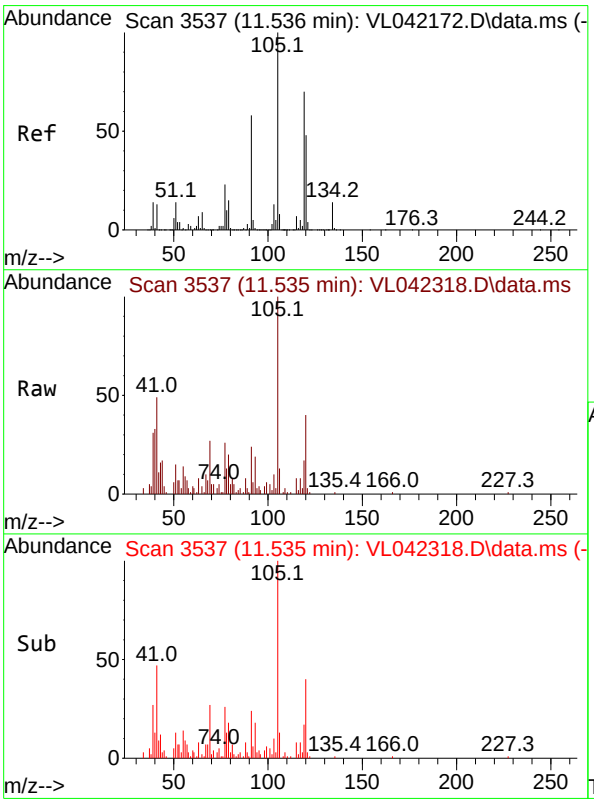
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 63.9 | 50.6 | 76.0 |
| 175 | 4.8 | 3.8 | 5.6 |




**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025DUP

**Manual Integrations**
**APPROVED**

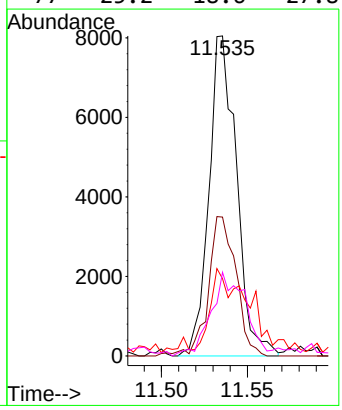
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025




#74
1,2,4-Trimethylbenzene
Concen: 0.132 ppbv
RT: 11.535 min Scan# 3537
Delta R.T. -0.000 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

Tgt Ion:105 Resp: 8971

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 43.4 | 38.6 | 58.0 |
| 91 | 21.9 | 46.2 | 69.2# |
| 77 | 25.2 | 18.6 | 27.8 |



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# Manual Integration Report

| Sequence: | vl032725 | Instrument | MSVOA_l |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDICCC010 | VL042172.D | m/p-Xylene | SAM | 3/31/2025 11:24:55 AM | MMDadoda | 4/3/2025 8:05:09 AM | Peak Integrated by Software |
| VSTDICC002 | VL042173.D | 1,4-Dioxane | SAM | 3/31/2025 11:25:00 AM | MMDadoda | 4/3/2025 8:05:13 AM | Peak Integrated by Software |
| VSTDICC002 | VL042173.D | Ethanol | SAM | 3/31/2025 11:25:00 AM | MMDadoda | 4/3/2025 8:05:13 AM | Peak Integrated by Software |
| VSTDICC002 | VL042173.D | m/p-Xylene | SAM | 3/31/2025 11:25:00 AM | MMDadoda | 4/3/2025 8:05:13 AM | Peak Integrated by Software |
| VSTDICC001 | VL042174.D | 1,4-Dioxane | SAM | 3/31/2025 11:26:28 AM | MMDadoda | 4/3/2025 8:05:22 AM | Peak Integrated by Software |
| VSTDICC001 | VL042174.D | 4-Methyl-2-Pentanone | SAM | 3/31/2025 11:26:28 AM | MMDadoda | 4/3/2025 8:05:22 AM | Peak Integrated by Software |
| VSTDICC001 | VL042174.D | Ethanol | SAM | 3/31/2025 11:26:28 AM | MMDadoda | 4/3/2025 8:05:22 AM | Peak Integrated by Software |
| VSTDICC001 | VL042174.D | m/p-Xylene | SAM | 3/31/2025 11:26:28 AM | MMDadoda | 4/3/2025 8:05:22 AM | Peak Integrated by Software |
| VSTDICC001 | VL042174.D | Methyl Methacrylate | SAM | 3/31/2025 11:26:28 AM | MMDadoda | 4/3/2025 8:05:22 AM | Peak Integrated by Software |
| VSTDICC001 | VL042174.D | Propene | SAM | 3/31/2025 11:26:28 AM | MMDadoda | 4/3/2025 8:05:22 AM | Peak Integrated by Software |
| VSTDICC001 | VL042174.D | t-1,3-Dichloropropene | SAM | 3/31/2025 11:26:28 AM | MMDadoda | 4/3/2025 8:05:22 AM | Peak Integrated by Software |
| VSTDICC001 | VL042174.D | trans-1,2-Dichloroethene | SAM | 3/31/2025 11:26:28 AM | MMDadoda | 4/3/2025 8:05:22 AM | Peak Integrated by Software |
| VSTDICC001 | VL042174.D | Vinyl Acetate | SAM | 3/31/2025 11:26:28 AM | MMDadoda | 4/3/2025 8:05:22 AM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | vl032725 | Instrument | MSVOA_I |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDICC0.5 | VL042175.D | 1,1,2-Trichloroethane | SAM | 3/31/2025 11:26:33 AM | MMDadoda | 4/3/2025 8:05:37 AM | Peak Integrated by Software |
| VSTDICC0.5 | VL042175.D | 1,4-Dioxane | SAM | 3/31/2025 11:26:33 AM | MMDadoda | 4/3/2025 8:05:37 AM | Peak Integrated by Software |
| VSTDICC0.5 | VL042175.D | cis-1,3-Dichloropropene | SAM | 3/31/2025 11:26:33 AM | MMDadoda | 4/3/2025 8:05:37 AM | Peak Integrated by Software |
| VSTDICC0.5 | VL042175.D | Cyclohexane | SAM | 3/31/2025 11:26:33 AM | MMDadoda | 4/3/2025 8:05:37 AM | Peak Integrated by Software |
| VSTDICC0.5 | VL042175.D | m/p-Xylene | SAM | 3/31/2025 11:26:33 AM | MMDadoda | 4/3/2025 8:05:37 AM | Peak Integrated by Software |
| VSTDICC0.5 | VL042175.D | Methyl Methacrylate | SAM | 3/31/2025 11:26:33 AM | MMDadoda | 4/3/2025 8:05:37 AM | Peak Integrated by Software |
| VSTDICC0.5 | VL042175.D | Propene | SAM | 3/31/2025 11:26:33 AM | MMDadoda | 4/3/2025 8:05:37 AM | Peak Integrated by Software |
| VSTDICC0.5 | VL042175.D | Tetrahydrofuran | SAM | 3/31/2025 11:26:33 AM | MMDadoda | 4/3/2025 8:05:37 AM | Peak Integrated by Software |
| VSTDICC0.5 | VL042175.D | Trichloroethene | SAM | 3/31/2025 11:26:33 AM | MMDadoda | 4/3/2025 8:05:37 AM | Peak Integrated by Software |
| VSTDICC0.1 | VL042176.D | 1,1,1-Trichloroethane | SAM | 3/31/2025 11:25:04 AM | MMDadoda | 4/3/2025 8:05:45 AM | Peak Integrated by Software |
| VSTDICC0.1 | VL042176.D | 1,1,2,2-Tetrachloroethane | SAM | 3/31/2025 11:25:04 AM | MMDadoda | 4/3/2025 8:05:45 AM | Peak Integrated by Software |
| VSTDICC0.1 | VL042176.D | 1,2-Dibromoethane | SAM | 3/31/2025 11:25:04 AM | MMDadoda | 4/3/2025 8:05:45 AM | Peak Integrated by Software |
| VSTDICC0.1 | VL042176.D | Carbon Tetrachloride | SAM | 3/31/2025 11:25:04 AM | MMDadoda | 4/3/2025 8:05:45 AM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | vl032725 | Instrument | MSVOA_l |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDICC0.1 | VL042176.D | Trichloroethene | SAM | 3/31/2025 11:25:04 AM | MMDadoda | 4/3/2025 8:05:45 AM | Peak Integrated by Software |
| VSTDICC0.03 | VL042177.D | 1,1,1-Trichloroethane | SAM | 3/31/2025 11:26:39 AM | MMDadoda | 4/3/2025 8:05:59 AM | Peak Integrated by Software |
| VSTDICC0.03 | VL042177.D | 1,1,2,2-Tetrachloroethane | SAM | 3/31/2025 11:26:39 AM | MMDadoda | 4/3/2025 8:05:59 AM | Peak Integrated by Software |
| VSTDICC0.03 | VL042177.D | Carbon Tetrachloride | SAM | 3/31/2025 11:26:39 AM | MMDadoda | 4/3/2025 8:05:59 AM | Peak Integrated by Software |
| VSTDICC0.03 | VL042177.D | Tetrachloroethene | SAM | 3/31/2025 11:26:39 AM | MMDadoda | 4/3/2025 8:05:59 AM | Peak Integrated by Software |
| VSTDICC0.03 | VL042177.D | Trichloroethene | SAM | 3/31/2025 11:26:39 AM | MMDadoda | 4/3/2025 8:05:59 AM | Peak Integrated by Software |
| VSTDICC0.03 | VL042177.D | Vinyl Chloride | SAM | 3/31/2025 11:26:39 AM | MMDadoda | 4/3/2025 8:05:59 AM | Peak Integrated by Software |
| VSTDICC015 | VL042178.D | m/p-Xylene | SAM | 3/31/2025 11:25:14 AM | MMDadoda | 4/3/2025 8:06:09 AM | Peak Integrated by Software |
| VSTDICV010 | VL042179.D | m/p-Xylene | SAM | 3/31/2025 11:28:50 AM | MMDadoda | 4/3/2025 8:06:14 AM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | vl040925 | Instrument | MSVOA_l |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDCCC010 | VL042286.D | m/p-Xylene | SAM | 4/10/2025 12:04:04 PM | MMDadoda | 4/10/2025 3:39:20 PM | Peak Integrated by Software |
| VL0409ABS02 | VL042289.D | m/p-Xylene | SAM | 4/10/2025 12:04:58 PM | MMDadoda | 4/10/2025 7:20:47 PM | Peak Integrated by Software |
| Q1665-01 | VL042290.D | Benzene | SAM | 4/10/2025 12:05:04 PM | MMDadoda | 4/10/2025 7:20:50 PM | Peak Integrated by Software |
| Q1665-01 | VL042290.D | Carbon Tetrachloride | SAM | 4/10/2025 12:05:04 PM | MMDadoda | 4/10/2025 7:20:50 PM | Peak Integrated by Software |
| Q1665-01 | VL042290.D | Chlorodifluoromethane | SAM | 4/10/2025 12:05:04 PM | MMDadoda | 4/10/2025 7:20:50 PM | Peak Integrated by Software |
| Q1665-01 | VL042290.D | Heptane | SAM | 4/10/2025 12:05:04 PM | MMDadoda | 4/10/2025 7:20:50 PM | Peak Integrated by Software |
| Q1665-01 | VL042290.D | m/p-Xylene | SAM | 4/10/2025 12:05:04 PM | MMDadoda | 4/10/2025 7:20:50 PM | Peak Integrated by Software |
| Q1665-01 | VL042290.D | Toluene | SAM | 4/10/2025 12:05:04 PM | MMDadoda | 4/10/2025 7:20:50 PM | Peak Integrated by Software |
| Q1665-01DUP | VL042291.D | Carbon Tetrachloride | SAM | 4/10/2025 12:05:09 PM | MMDadoda | 4/10/2025 7:20:53 PM | Peak Integrated by Software |
| Q1665-01DUP | VL042291.D | Chlorodifluoromethane | SAM | 4/10/2025 12:05:09 PM | MMDadoda | 4/10/2025 7:20:53 PM | Peak Integrated by Software |
| Q1665-01DUP | VL042291.D | Heptane | SAM | 4/10/2025 12:05:09 PM | MMDadoda | 4/10/2025 7:20:53 PM | Peak Integrated by Software |
| Q1665-01DUP | VL042291.D | m/p-Xylene | SAM | 4/10/2025 12:05:09 PM | MMDadoda | 4/10/2025 7:20:53 PM | Peak Integrated by Software |
| Q1665-01DUP | VL042291.D | Trichlorofluoromethane | SAM | 4/10/2025 12:05:09 PM | MMDadoda | 4/10/2025 7:20:53 PM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | vl040925 | Instrument | MSVOA_l |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| Q1665-04 | VL042292.D | Chlorodifluoromethane | SAM | 4/10/2025 12:05:14 PM | MMDadoda | 4/10/2025 7:20:55 PM | Peak Integrated by Software |
| Q1665-04 | VL042292.D | m/p-Xylene | SAM | 4/10/2025 12:05:14 PM | MMDadoda | 4/10/2025 7:20:55 PM | Peak Integrated by Software |
| Q1665-04 | VL042292.D | Toluene | SAM | 4/10/2025 12:05:14 PM | MMDadoda | 4/10/2025 7:20:55 PM | Peak Integrated by Software |
| Q1665-06 | VL042293.D | Carbon Tetrachloride | SAM | 4/10/2025 12:04:30 PM | MMDadoda | 4/10/2025 7:20:58 PM | Peak Integrated by Software |
| Q1665-06 | VL042293.D | Chlorodifluoromethane | SAM | 4/10/2025 12:04:30 PM | MMDadoda | 4/10/2025 7:20:58 PM | Peak Integrated by Software |
| Q1665-06 | VL042293.D | Heptane | SAM | 4/10/2025 12:04:30 PM | MMDadoda | 4/10/2025 7:20:58 PM | Peak Integrated by Software |
| Q1665-06 | VL042293.D | Propene | SAM | 4/10/2025 12:04:30 PM | MMDadoda | 4/10/2025 7:20:58 PM | Peak Integrated by Software |
| Q1665-06 | VL042293.D | Tetrahydrofuran | SAM | 4/10/2025 12:04:30 PM | MMDadoda | 4/10/2025 7:20:58 PM | Peak Integrated by Software |
| Q1665-08 | VL042294.D | Benzene | SAM | 4/10/2025 12:04:43 PM | MMDadoda | 4/10/2025 7:21:00 PM | Peak Integrated by Software |
| Q1665-08 | VL042294.D | Carbon Tetrachloride | SAM | 4/10/2025 12:04:43 PM | MMDadoda | 4/10/2025 7:21:00 PM | Peak Integrated by Software |
| Q1665-08 | VL042294.D | Chlorodifluoromethane | SAM | 4/10/2025 12:04:43 PM | MMDadoda | 4/10/2025 7:21:00 PM | Peak Integrated by Software |
| Q1665-08 | VL042294.D | Propene | SAM | 4/10/2025 12:04:43 PM | MMDadoda | 4/10/2025 7:21:00 PM | Peak Integrated by Software |
| Q1665-08 | VL042294.D | tert-Butyl alcohol | SAM | 4/10/2025 12:04:43 PM | MMDadoda | 4/10/2025 7:21:00 PM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | vl040925 | Instrument | MSVOA_l |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| Q1665-09 | VL042295.D | Carbon Tetrachloride | SAM | 4/10/2025 12:04:26 PM | MMDadoda | 4/10/2025 7:21:01 PM | Peak Integrated by Software |
| Q1665-09 | VL042295.D | Chlorodifluoromethane | SAM | 4/10/2025 12:04:26 PM | MMDadoda | 4/10/2025 7:21:01 PM | Peak Integrated by Software |
| Q1665-09 | VL042295.D | Heptane | SAM | 4/10/2025 12:04:26 PM | MMDadoda | 4/10/2025 7:21:01 PM | Peak Integrated by Software |
| Q1665-09 | VL042295.D | m/p-Xylene | SAM | 4/10/2025 12:04:26 PM | MMDadoda | 4/10/2025 7:21:01 PM | Peak Integrated by Software |
| Q1665-09 | VL042295.D | Propene | SAM | 4/10/2025 12:04:26 PM | MMDadoda | 4/10/2025 7:21:01 PM | Peak Integrated by Software |
| Q1665-20 | VL042296.D | Chlorobenzene | SAM | 4/10/2025 12:05:20 PM | MMDadoda | 4/10/2025 7:21:06 PM | Peak Integrated by Software |
| Q1665-20 | VL042296.D | Chlorodifluoromethane | SAM | 4/10/2025 12:05:20 PM | MMDadoda | 4/10/2025 7:21:06 PM | Peak Integrated by Software |
| Q1665-20 | VL042296.D | Heptane | SAM | 4/10/2025 12:05:20 PM | MMDadoda | 4/10/2025 7:21:06 PM | Peak Integrated by Software |
| Q1665-20 | VL042296.D | m/p-Xylene | SAM | 4/10/2025 12:05:20 PM | MMDadoda | 4/10/2025 7:21:06 PM | Peak Integrated by Software |
| Q1665-20 | VL042296.D | Propene | SAM | 4/10/2025 12:05:20 PM | MMDadoda | 4/10/2025 7:21:06 PM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | VL041125 | Instrument | MSVOA_I |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDCCC010 | VL042312.D | m/p-Xylene | SAM | 4/16/2025 9:17:16 PM | MMDadoda | 4/17/2025 1:40:05 PM | Peak Integrated by Software |
| VL0411ABS01 | VL042314.D | m/p-Xylene | SAM | 4/16/2025 9:17:26 PM | MMDadoda | 4/17/2025 1:40:08 PM | Peak Integrated by Software |
| Q1665-03 | VL042317.D | Carbon Tetrachloride | SAM | 4/16/2025 9:17:31 PM | MMDadoda | 4/17/2025 1:40:15 PM | Peak Integrated by Software |
| Q1665-03 | VL042317.D | Heptane | SAM | 4/16/2025 9:17:31 PM | MMDadoda | 4/17/2025 1:40:15 PM | Peak Integrated by Software |
| Q1665-03 | VL042317.D | m/p-Xylene | SAM | 4/16/2025 9:17:31 PM | MMDadoda | 4/17/2025 1:40:15 PM | Peak Integrated by Software |
| Q1665-03 | VL042317.D | Propene | SAM | 4/16/2025 9:17:31 PM | MMDadoda | 4/17/2025 1:40:15 PM | Peak Integrated by Software |
| Q1665-03 | VL042317.D | Tetrachloroethene | SAM | 4/16/2025 9:17:31 PM | MMDadoda | 4/17/2025 1:40:15 PM | Peak Integrated by Software |
| Q1665-03DUP | VL042318.D | Carbon Tetrachloride | SAM | 4/16/2025 9:17:45 PM | MMDadoda | 4/17/2025 1:40:17 PM | Peak Integrated by Software |
| Q1665-03DUP | VL042318.D | Heptane | SAM | 4/16/2025 9:17:45 PM | MMDadoda | 4/17/2025 1:40:17 PM | Peak Integrated by Software |
| Q1665-03DUP | VL042318.D | m/p-Xylene | SAM | 4/16/2025 9:17:45 PM | MMDadoda | 4/17/2025 1:40:17 PM | Peak Integrated by Software |
| Q1665-03DUP | VL042318.D | o-Xylene | SAM | 4/16/2025 9:17:45 PM | MMDadoda | 4/17/2025 1:40:17 PM | Peak Integrated by Software |
| Q1665-03DUP | VL042318.D | Propene | SAM | 4/16/2025 9:17:45 PM | MMDadoda | 4/17/2025 1:40:17 PM | Peak Integrated by Software |
| Q1665-03DUP | VL042318.D | tert-Butyl alcohol | SAM | 4/16/2025 9:17:45 PM | MMDadoda | 4/17/2025 1:40:17 PM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | VL041125 | Instrument | MSVOA_I |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| Q1665-03DUP | VL042318.D | Tetrachloroethene | SAM | 4/16/2025 9:17:45 PM | MMDadoda | 4/17/2025 1:40:17 PM | Peak Integrated by Software |
| Q1665-03DUP | VL042318.D | Toluene | SAM | 4/16/2025 9:17:45 PM | MMDadoda | 4/17/2025 1:40:17 PM | Peak Integrated by Software |
| Q1665-10 | VL042319.D | 2,2,4-Trimethylpentane | SAM | 4/16/2025 9:18:13 PM | MMDadoda | 4/17/2025 1:40:19 PM | Peak Integrated by Software |
| Q1665-10 | VL042319.D | Carbon Tetrachloride | SAM | 4/16/2025 9:18:13 PM | MMDadoda | 4/17/2025 1:40:19 PM | Peak Integrated by Software |
| Q1665-10 | VL042319.D | Chlorodifluoromethane | SAM | 4/16/2025 9:18:13 PM | MMDadoda | 4/17/2025 1:40:19 PM | Peak Integrated by Software |
| Q1665-10 | VL042319.D | Heptane | SAM | 4/16/2025 9:18:13 PM | MMDadoda | 4/17/2025 1:40:19 PM | Peak Integrated by Software |
| Q1665-10 | VL042319.D | m/p-Xylene | SAM | 4/16/2025 9:18:13 PM | MMDadoda | 4/17/2025 1:40:19 PM | Peak Integrated by Software |
| Q1665-10 | VL042319.D | Propene | SAM | 4/16/2025 9:18:13 PM | MMDadoda | 4/17/2025 1:40:19 PM | Peak Integrated by Software |
| Q1665-10 | VL042319.D | Toluene | SAM | 4/16/2025 9:18:13 PM | MMDadoda | 4/17/2025 1:40:19 PM | Peak Integrated by Software |
| Q1665-11 | VL042320.D | 4-Methyl-2-Pentanone | SAM | 4/16/2025 9:18:07 PM | MMDadoda | 4/17/2025 1:40:21 PM | Peak Integrated by Software |
| Q1665-11 | VL042320.D | Carbon Tetrachloride | SAM | 4/16/2025 9:18:07 PM | MMDadoda | 4/17/2025 1:40:21 PM | Peak Integrated by Software |
| Q1665-11 | VL042320.D | m/p-Xylene | SAM | 4/16/2025 9:18:07 PM | MMDadoda | 4/17/2025 1:40:21 PM | Peak Integrated by Software |
| Q1665-11 | VL042320.D | Propene | SAM | 4/16/2025 9:18:07 PM | MMDadoda | 4/17/2025 1:40:21 PM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | VL041125 | Instrument | MSVOA_I |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| Q1665-11 | VL042320.D | tert-Butyl alcohol | SAM | 4/16/2025 9:18:07 PM | MMDadoda | 4/17/2025 1:40:21 PM | Peak Integrated by Software |
| Q1665-11 | VL042320.D | Toluene | SAM | 4/16/2025 9:18:07 PM | MMDadoda | 4/17/2025 1:40:21 PM | Peak Integrated by Software |
| Q1665-18 | VL042321.D | 4-Methyl-2-Pentanone | SAM | 4/16/2025 9:18:36 PM | MMDadoda | 4/17/2025 1:40:23 PM | Peak Integrated by Software |
| Q1665-18 | VL042321.D | Carbon Tetrachloride | SAM | 4/16/2025 9:18:36 PM | MMDadoda | 4/17/2025 1:40:23 PM | Peak Integrated by Software |
| Q1665-18 | VL042321.D | Chlorodifluoromethane | SAM | 4/16/2025 9:18:36 PM | MMDadoda | 4/17/2025 1:40:23 PM | Peak Integrated by Software |
| Q1665-18 | VL042321.D | Heptane | SAM | 4/16/2025 9:18:36 PM | MMDadoda | 4/17/2025 1:40:23 PM | Peak Integrated by Software |
| Q1665-18 | VL042321.D | m/p-Xylene | SAM | 4/16/2025 9:18:36 PM | MMDadoda | 4/17/2025 1:40:23 PM | Peak Integrated by Software |
| Q1665-18 | VL042321.D | o-Xylene | SAM | 4/16/2025 9:18:36 PM | MMDadoda | 4/17/2025 1:40:23 PM | Peak Integrated by Software |
| Q1665-18 | VL042321.D | Propene | SAM | 4/16/2025 9:18:36 PM | MMDadoda | 4/17/2025 1:40:23 PM | Peak Integrated by Software |
| Q1665-18 | VL042321.D | tert-Butyl alcohol | SAM | 4/16/2025 9:18:36 PM | MMDadoda | 4/17/2025 1:40:23 PM | Peak Integrated by Software |
| Q1665-18 | VL042321.D | Tetrachloroethene | SAM | 4/16/2025 9:18:36 PM | MMDadoda | 4/17/2025 1:40:23 PM | Peak Integrated by Software |
| Q1665-10DL | VL042323.D | Propene | SAM | 4/16/2025 9:18:02 PM | MMDadoda | 4/17/2025 1:40:25 PM | Peak Integrated by Software |
| Q1665-11DL | VL042324.D | Chloroform | SAM | 4/16/2025 9:17:57 PM | MMDadoda | 4/17/2025 1:40:26 PM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | VL041125 | Instrument | MSVOA_I |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|

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# Manual Integration Report

| Sequence: | vl041525 | Instrument | MSVOA_l |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDCCC010 | VL042326.D | m/p-Xylene | SAM | 4/16/2025 2:13:04 PM | MMDadoda | 4/16/2025 3:47:21 PM | Peak Integrated by Software |
| VL0415ABS01 | VL042328.D | m/p-Xylene | SAM | 4/16/2025 2:13:09 PM | MMDadoda | 4/16/2025 3:47:23 PM | Peak Integrated by Software |
| Q1665-10DL2 | VL042332.D | Propene | SAM | 4/16/2025 2:13:14 PM | MMDadoda | 4/16/2025 3:47:25 PM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | vl041725 | Instrument | MSVOA_l |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDICCC010 | VL042349.D | m/p-Xylene | SAM | 4/18/2025 4:19:07 PM | MMDadoda | 4/18/2025 10:45:20 PM | Peak Integrated by Software |
| VSTDICC002 | VL042350.D | 1,4-Dioxane | SAM | 4/18/2025 4:19:12 PM | MMDadoda | 4/18/2025 10:45:17 PM | Peak Integrated by Software |
| VSTDICC002 | VL042350.D | cis-1,3-Dichloropropene | SAM | 4/18/2025 4:19:12 PM | MMDadoda | 4/18/2025 10:45:17 PM | Peak Integrated by Software |
| VSTDICC002 | VL042350.D | Ethanol | SAM | 4/18/2025 4:19:12 PM | MMDadoda | 4/18/2025 10:45:17 PM | Peak Integrated by Software |
| VSTDICC002 | VL042350.D | Heptane | SAM | 4/18/2025 4:19:12 PM | MMDadoda | 4/18/2025 10:45:17 PM | Peak Integrated by Software |
| VSTDICC002 | VL042350.D | m/p-Xylene | SAM | 4/18/2025 4:19:12 PM | MMDadoda | 4/18/2025 10:45:17 PM | Peak Integrated by Software |
| VSTDICC002 | VL042350.D | Trichloroethene | SAM | 4/18/2025 4:19:12 PM | MMDadoda | 4/18/2025 10:45:17 PM | Peak Integrated by Software |
| VSTDICC001 | VL042351.D | 1,1,2-Trichloroethane | SAM | 4/18/2025 4:19:17 PM | MMDadoda | 4/18/2025 10:45:15 PM | Peak Integrated by Software |
| VSTDICC001 | VL042351.D | 1,3-Butadiene | SAM | 4/18/2025 4:19:17 PM | MMDadoda | 4/18/2025 10:45:15 PM | Peak Integrated by Software |
| VSTDICC001 | VL042351.D | 1,4-Dioxane | SAM | 4/18/2025 4:19:17 PM | MMDadoda | 4/18/2025 10:45:15 PM | Peak Integrated by Software |
| VSTDICC001 | VL042351.D | 2,2,4-Trimethylpentane | SAM | 4/18/2025 4:19:17 PM | MMDadoda | 4/18/2025 10:45:15 PM | Peak Integrated by Software |
| VSTDICC001 | VL042351.D | cis-1,3-Dichloropropene | SAM | 4/18/2025 4:19:17 PM | MMDadoda | 4/18/2025 10:45:15 PM | Peak Integrated by Software |
| VSTDICC001 | VL042351.D | Cyclohexane | SAM | 4/18/2025 4:19:17 PM | MMDadoda | 4/18/2025 10:45:15 PM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | vl041725 | Instrument | MSVOA_I |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDICC001 | VL042351.D | Ethanol | SAM | 4/18/2025 4:19:17 PM | MMDadoda | 4/18/2025 10:45:15 PM | Peak Integrated by Software |
| VSTDICC001 | VL042351.D | Heptane | SAM | 4/18/2025 4:19:17 PM | MMDadoda | 4/18/2025 10:45:15 PM | Peak Integrated by Software |
| VSTDICC001 | VL042351.D | m/p-Xylene | SAM | 4/18/2025 4:19:17 PM | MMDadoda | 4/18/2025 10:45:15 PM | Peak Integrated by Software |
| VSTDICC001 | VL042351.D | Methyl Methacrylate | SAM | 4/18/2025 4:19:17 PM | MMDadoda | 4/18/2025 10:45:15 PM | Peak Integrated by Software |
| VSTDICC001 | VL042351.D | t-1,3-Dichloropropene | SAM | 4/18/2025 4:19:17 PM | MMDadoda | 4/18/2025 10:45:15 PM | Peak Integrated by Software |
| VSTDICC0.5 | VL042352.D | 1,1,2-Trichloroethane | SAM | 4/18/2025 4:20:33 PM | MMDadoda | 4/18/2025 10:45:07 PM | Peak Integrated by Software |
| VSTDICC0.5 | VL042352.D | 1,2-Dichloropropane | SAM | 4/18/2025 4:20:33 PM | MMDadoda | 4/18/2025 10:45:07 PM | Peak Integrated by Software |
| VSTDICC0.5 | VL042352.D | 1,4-Dioxane | SAM | 4/18/2025 4:20:33 PM | MMDadoda | 4/18/2025 10:45:07 PM | Peak Integrated by Software |
| VSTDICC0.5 | VL042352.D | 4-Methyl-2-Pentanone | SAM | 4/18/2025 4:20:33 PM | MMDadoda | 4/18/2025 10:45:07 PM | Peak Integrated by Software |
| VSTDICC0.5 | VL042352.D | Chlorobenzene | SAM | 4/18/2025 4:20:33 PM | MMDadoda | 4/18/2025 10:45:07 PM | Peak Integrated by Software |
| VSTDICC0.5 | VL042352.D | cis-1,3-Dichloropropene | SAM | 4/18/2025 4:20:33 PM | MMDadoda | 4/18/2025 10:45:07 PM | Peak Integrated by Software |
| VSTDICC0.5 | VL042352.D | Ethanol | SAM | 4/18/2025 4:20:33 PM | MMDadoda | 4/18/2025 10:45:07 PM | Peak Integrated by Software |
| VSTDICC0.5 | VL042352.D | Heptane | SAM | 4/18/2025 4:20:33 PM | MMDadoda | 4/18/2025 10:45:07 PM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | vl041725 | Instrument | MSVOA_I |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDICC0.5 | VL042352.D | m/p-Xylene | SAM | 4/18/2025 4:20:33 PM | MMDadoda | 4/18/2025 10:45:07 PM | Peak Integrated by Software |
| VSTDICC0.5 | VL042352.D | Methyl Methacrylate | SAM | 4/18/2025 4:20:33 PM | MMDadoda | 4/18/2025 10:45:07 PM | Peak Integrated by Software |
| VSTDICC0.5 | VL042352.D | t-1,3-Dichloropropene | SAM | 4/18/2025 4:20:33 PM | MMDadoda | 4/18/2025 10:45:07 PM | Peak Integrated by Software |
| VSTDICC0.5 | VL042352.D | Tetrahydrofuran | SAM | 4/18/2025 4:20:33 PM | MMDadoda | 4/18/2025 10:45:07 PM | Peak Integrated by Software |
| VSTDICC0.1 | VL042353.D | 1,1,1-Trichloroethane | SAM | 4/18/2025 4:20:37 PM | MMDadoda | 4/18/2025 10:45:04 PM | Peak Integrated by Software |
| VSTDICC0.1 | VL042353.D | 1,1,2,2-Tetrachloroethane | SAM | 4/18/2025 4:20:37 PM | MMDadoda | 4/18/2025 10:45:04 PM | Peak Integrated by Software |
| VSTDICC0.1 | VL042353.D | 1,2-Dibromoethane | SAM | 4/18/2025 4:20:37 PM | MMDadoda | 4/18/2025 10:45:04 PM | Peak Integrated by Software |
| VSTDICC0.1 | VL042353.D | Tetrachloroethene | SAM | 4/18/2025 4:20:37 PM | MMDadoda | 4/18/2025 10:45:04 PM | Peak Integrated by Software |
| VSTDICC0.1 | VL042353.D | Trichloroethene | SAM | 4/18/2025 4:20:37 PM | MMDadoda | 4/18/2025 10:45:04 PM | Peak Integrated by Software |
| VSTDICC0.03 | VL042354.D | 1,1,1-Trichloroethane | SAM | 4/18/2025 4:19:24 PM | MMDadoda | 4/18/2025 10:45:02 PM | Peak Integrated by Software |
| VSTDICC0.03 | VL042354.D | 1,1,2,2-Tetrachloroethane | SAM | 4/18/2025 4:19:24 PM | MMDadoda | 4/18/2025 10:45:02 PM | Peak Integrated by Software |
| VSTDICC0.03 | VL042354.D | Carbon Tetrachloride | SAM | 4/18/2025 4:19:24 PM | MMDadoda | 4/18/2025 10:45:02 PM | Peak Integrated by Software |
| VSTDICC0.03 | VL042354.D | Tetrachloroethene | SAM | 4/18/2025 4:19:24 PM | MMDadoda | 4/18/2025 10:45:02 PM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | vl041725 | Instrument | MSVOA_I |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDICC0.03 | VL042354.D | Trichloroethene | SAM | 4/18/2025 4:19:24 PM | MMDadoda | 4/18/2025 10:45:02 PM | Peak Integrated by Software |
| VSTDICC015 | VL042355.D | m/p-Xylene | SAM | 4/18/2025 4:21:35 PM | MMDadoda | 4/18/2025 10:44:59 PM | Peak Integrated by Software |
| VSTDICV010 | VL042356.D | m/p-Xylene | SAM | 4/18/2025 4:20:42 PM | MMDadoda | 4/18/2025 10:44:57 PM | Peak Integrated by Software |
| VL0417ABS01 | VL042358.D | m/p-Xylene | SAM | 4/18/2025 4:21:39 PM | MMDadoda | 4/18/2025 10:44:55 PM | Peak Integrated by Software |
| Q1665-15 | VL042359.D | 1,1,1-Trichloroethane | SAM | 4/18/2025 4:22:27 PM | MMDadoda | 4/18/2025 10:44:53 PM | Peak Integrated by Software |
| Q1665-15 | VL042359.D | 1,4-Dioxane | SAM | 4/18/2025 4:22:27 PM | MMDadoda | 4/18/2025 10:44:53 PM | Peak Integrated by Software |
| Q1665-15 | VL042359.D | 2,2,4-Trimethylpentane | SAM | 4/18/2025 4:22:27 PM | MMDadoda | 4/18/2025 10:44:53 PM | Peak Integrated by Software |
| Q1665-15 | VL042359.D | 2-Hexanone | SAM | 4/18/2025 4:22:27 PM | MMDadoda | 4/18/2025 10:44:53 PM | Peak Integrated by Software |
| Q1665-15 | VL042359.D | 4-Methyl-2-Pentanone | SAM | 4/18/2025 4:22:27 PM | MMDadoda | 4/18/2025 10:44:53 PM | Peak Integrated by Software |
| Q1665-15 | VL042359.D | Benzene | SAM | 4/18/2025 4:22:27 PM | MMDadoda | 4/18/2025 10:44:53 PM | Peak Integrated by Software |
| Q1665-15 | VL042359.D | Carbon Tetrachloride | SAM | 4/18/2025 4:22:27 PM | MMDadoda | 4/18/2025 10:44:53 PM | Peak Integrated by Software |
| Q1665-15 | VL042359.D | Chlorodifluoromethane | SAM | 4/18/2025 4:22:27 PM | MMDadoda | 4/18/2025 10:44:53 PM | Peak Integrated by Software |
| Q1665-15 | VL042359.D | Heptane | SAM | 4/18/2025 4:22:27 PM | MMDadoda | 4/18/2025 10:44:53 PM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | vl041725 | Instrument | MSVOA_l |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| Q1665-15 | VL042359.D | Naphthalene,2-methyl- | SAM | 4/18/2025 4:22:27 PM | MMDadoda | 4/18/2025 10:44:53 PM | Peak Integrated by Software |
| Q1665-15DL | VL042360.D | 2-Butanone | SAM | 4/18/2025 4:21:44 PM | MMDadoda | 4/18/2025 10:44:49 PM | Peak Integrated by Software |
| Q1665-15DL | VL042360.D | Ethanol | SAM | 4/18/2025 4:21:44 PM | MMDadoda | 4/18/2025 10:44:49 PM | Peak Integrated by Software |
| Q1665-15DL | VL042360.D | m/p-Xylene | SAM | 4/18/2025 4:21:44 PM | MMDadoda | 4/18/2025 10:44:49 PM | Peak Integrated by Software |
| Q1665-15DL | VL042360.D | Toluene | SAM | 4/18/2025 4:21:44 PM | MMDadoda | 4/18/2025 10:44:49 PM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | vl042825 | Instrument | MSVOA_l |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDCCC010 | VL042416.D | m/p-Xylene | SAM | 4/29/2025 9:26:25 AM | MMDadoda | 4/30/2025 2:28:57 PM | Peak Integrated by Software |
| VL0428ABS01 | VL042418.D | m/p-Xylene | SAM | 4/29/2025 9:26:31 AM | MMDadoda | 4/30/2025 2:29:13 PM | Peak Integrated by Software |
| Q1665-05 | VL042419.D | 2,2,4-Trimethylpentane | SAM | 4/29/2025 9:28:27 AM | MMDadoda | 4/30/2025 2:29:21 PM | Peak Integrated by Software |
| Q1665-05 | VL042419.D | 4-Methyl-2-Pentanone | SAM | 4/29/2025 9:28:27 AM | MMDadoda | 4/30/2025 2:29:21 PM | Peak Integrated by Software |
| Q1665-05 | VL042419.D | Acetone | SAM | 4/29/2025 9:28:27 AM | MMDadoda | 4/30/2025 2:29:21 PM | Peak Integrated by Software |
| Q1665-05 | VL042419.D | Carbon Tetrachloride | SAM | 4/29/2025 9:28:27 AM | MMDadoda | 4/30/2025 2:29:21 PM | Peak Integrated by Software |
| Q1665-05 | VL042419.D | Chlorodifluoromethane | SAM | 4/29/2025 9:28:27 AM | MMDadoda | 4/30/2025 2:29:21 PM | Peak Integrated by Software |
| Q1665-05 | VL042419.D | Cyclohexane | SAM | 4/29/2025 9:28:27 AM | MMDadoda | 4/30/2025 2:29:21 PM | Peak Integrated by Software |
| Q1665-05 | VL042419.D | Heptane | SAM | 4/29/2025 9:28:27 AM | MMDadoda | 4/30/2025 2:29:21 PM | Peak Integrated by Software |
| Q1665-05 | VL042419.D | Propene | SAM | 4/29/2025 9:28:27 AM | MMDadoda | 4/30/2025 2:29:21 PM | Peak Integrated by Software |
| Q1665-05 | VL042419.D | Tetrachloroethene | SAM | 4/29/2025 9:28:27 AM | MMDadoda | 4/30/2025 2:29:21 PM | Peak Integrated by Software |
| Q1665-07 | VL042420.D | Acetone | SAM | 4/29/2025 9:26:36 AM | MMDadoda | 4/30/2025 2:29:25 PM | Peak Integrated by Software |
| Q1665-07 | VL042420.D | Benzene | SAM | 4/29/2025 9:26:36 AM | MMDadoda | 4/30/2025 2:29:25 PM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | vl042825 | Instrument | MSVOA_I |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| Q1665-07 | VL042420.D | Carbon Tetrachloride | SAM | 4/29/2025 9:26:36 AM | MMDadoda | 4/30/2025 2:29:25 PM | Peak Integrated by Software |
| Q1665-07 | VL042420.D | Chlorodifluoromethane | SAM | 4/29/2025 9:26:36 AM | MMDadoda | 4/30/2025 2:29:25 PM | Peak Integrated by Software |
| Q1665-07 | VL042420.D | Heptane | SAM | 4/29/2025 9:26:36 AM | MMDadoda | 4/30/2025 2:29:25 PM | Peak Integrated by Software |
| Q1665-07 | VL042420.D | m/p-Xylene | SAM | 4/29/2025 9:26:36 AM | MMDadoda | 4/30/2025 2:29:25 PM | Peak Integrated by Software |
| Q1665-07 | VL042420.D | Propene | SAM | 4/29/2025 9:26:36 AM | MMDadoda | 4/30/2025 2:29:25 PM | Peak Integrated by Software |
| Q1665-07 | VL042420.D | Tetrachloroethene | SAM | 4/29/2025 9:26:36 AM | MMDadoda | 4/30/2025 2:29:25 PM | Peak Integrated by Software |
| Q1665-07 | VL042420.D | Tetrahydrofuran | SAM | 4/29/2025 9:26:36 AM | MMDadoda | 4/30/2025 2:29:25 PM | Peak Integrated by Software |
| Q1665-12 | VL042421.D | Benzene | SAM | 4/29/2025 9:27:26 AM | MMDadoda | 4/30/2025 2:30:38 PM | Peak Integrated by Software |
| Q1665-12 | VL042421.D | Carbon Tetrachloride | SAM | 4/29/2025 9:27:26 AM | MMDadoda | 4/30/2025 2:30:38 PM | Peak Integrated by Software |
| Q1665-12 | VL042421.D | Chlorodifluoromethane | SAM | 4/29/2025 9:27:26 AM | MMDadoda | 4/30/2025 2:30:38 PM | Peak Integrated by Software |
| Q1665-12 | VL042421.D | Cyclohexane | SAM | 4/29/2025 9:27:26 AM | MMDadoda | 4/30/2025 2:30:38 PM | Peak Integrated by Software |
| Q1665-12 | VL042421.D | Heptane | SAM | 4/29/2025 9:27:26 AM | MMDadoda | 4/30/2025 2:30:38 PM | Peak Integrated by Software |
| Q1665-12 | VL042421.D | m/p-Xylene | SAM | 4/29/2025 9:27:26 AM | MMDadoda | 4/30/2025 2:30:38 PM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | vl042825 | Instrument | MSVOA_l |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| Q1665-12 | VL042421.D | n-propylbenzene | SAM | 4/29/2025 9:27:26 AM | MMDadoda | 4/30/2025 2:30:38 PM | Peak Integrated by Software |
| Q1665-12 | VL042421.D | Propene | SAM | 4/29/2025 9:27:26 AM | MMDadoda | 4/30/2025 2:30:38 PM | Peak Integrated by Software |
| Q1665-12 | VL042421.D | Tetrahydrofuran | SAM | 4/29/2025 9:27:26 AM | MMDadoda | 4/30/2025 2:30:38 PM | Peak Integrated by Software |
| Q1665-16 | VL042422.D | 2,2,4-Trimethylpentane | SAM | 4/29/2025 9:27:50 AM | MMDadoda | 4/30/2025 2:29:28 PM | Peak Integrated by Software |
| Q1665-16 | VL042422.D | Carbon Tetrachloride | SAM | 4/29/2025 9:27:50 AM | MMDadoda | 4/30/2025 2:29:28 PM | Peak Integrated by Software |
| Q1665-16 | VL042422.D | Chlorodifluoromethane | SAM | 4/29/2025 9:27:50 AM | MMDadoda | 4/30/2025 2:29:28 PM | Peak Integrated by Software |
| Q1665-16 | VL042422.D | Heptane | SAM | 4/29/2025 9:27:50 AM | MMDadoda | 4/30/2025 2:29:28 PM | Peak Integrated by Software |
| Q1665-16 | VL042422.D | Propene | SAM | 4/29/2025 9:27:50 AM | MMDadoda | 4/30/2025 2:29:28 PM | Peak Integrated by Software |
| Q1665-16 | VL042422.D | Styrene | SAM | 4/29/2025 9:27:50 AM | MMDadoda | 4/30/2025 2:29:28 PM | Peak Integrated by Software |
| Q1665-16 | VL042422.D | tert-Butyl alcohol | SAM | 4/29/2025 9:27:50 AM | MMDadoda | 4/30/2025 2:29:28 PM | Peak Integrated by Software |
| Q1665-16 | VL042422.D | Tetrahydrofuran | SAM | 4/29/2025 9:27:50 AM | MMDadoda | 4/30/2025 2:29:28 PM | Peak Integrated by Software |
| Q1665-19 | VL042423.D | 2,2,4-Trimethylpentane | SAM | 4/29/2025 9:27:01 AM | MMDadoda | 4/30/2025 2:29:40 PM | Peak Integrated by Software |
| Q1665-19 | VL042423.D | 2-Hexanone | SAM | 4/29/2025 9:27:01 AM | MMDadoda | 4/30/2025 2:29:40 PM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | vl042825 | Instrument | MSVOA_l |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| Q1665-19 | VL042423.D | 4-Ethyltoluene | SAM | 4/29/2025 9:27:01 AM | MMDadoda | 4/30/2025 2:29:40 PM | Peak Integrated by Software |
| Q1665-19 | VL042423.D | 4-Methyl-2-Pentanone | SAM | 4/29/2025 9:27:01 AM | MMDadoda | 4/30/2025 2:29:40 PM | Peak Integrated by Software |
| Q1665-19 | VL042423.D | Acetone | SAM | 4/29/2025 9:27:01 AM | MMDadoda | 4/30/2025 2:29:40 PM | Peak Integrated by Software |
| Q1665-19 | VL042423.D | Carbon Tetrachloride | SAM | 4/29/2025 9:27:01 AM | MMDadoda | 4/30/2025 2:29:40 PM | Peak Integrated by Software |
| Q1665-19 | VL042423.D | Cyclohexane | SAM | 4/29/2025 9:27:01 AM | MMDadoda | 4/30/2025 2:29:40 PM | Peak Integrated by Software |
| Q1665-19 | VL042423.D | Heptane | SAM | 4/29/2025 9:27:01 AM | MMDadoda | 4/30/2025 2:29:40 PM | Peak Integrated by Software |
| Q1665-19 | VL042423.D | Propene | SAM | 4/29/2025 9:27:01 AM | MMDadoda | 4/30/2025 2:29:40 PM | Peak Integrated by Software |
| Q1665-19 | VL042423.D | Tetrachloroethene | SAM | 4/29/2025 9:27:01 AM | MMDadoda | 4/30/2025 2:29:40 PM | Peak Integrated by Software |
| Q1665-21 | VL042424.D | 2,2,4-Trimethylpentane | SAM | 4/29/2025 9:27:55 AM | MMDadoda | 4/30/2025 2:30:38 PM | Peak Integrated by Software |
| Q1665-21 | VL042424.D | Carbon Tetrachloride | SAM | 4/29/2025 9:27:55 AM | MMDadoda | 4/30/2025 2:30:38 PM | Peak Integrated by Software |
| Q1665-21 | VL042424.D | Chlorodifluoromethane | SAM | 4/29/2025 9:27:55 AM | MMDadoda | 4/30/2025 2:30:38 PM | Peak Integrated by Software |
| Q1665-21 | VL042424.D | Heptane | SAM | 4/29/2025 9:27:55 AM | MMDadoda | 4/30/2025 2:30:38 PM | Peak Integrated by Software |
| Q1665-21 | VL042424.D | Propene | SAM | 4/29/2025 9:27:55 AM | MMDadoda | 4/30/2025 2:30:38 PM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | vl042825 | Instrument | MSVOA_l |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| Q1665-22 | VL042425.D | Acetone | SAM | 4/29/2025 9:27:07 AM | MMDadoda | 4/30/2025 2:29:43 PM | Peak Integrated by Software |
| Q1665-22 | VL042425.D | Carbon Tetrachloride | SAM | 4/29/2025 9:27:07 AM | MMDadoda | 4/30/2025 2:29:43 PM | Peak Integrated by Software |
| Q1665-22 | VL042425.D | Chlorodifluoromethane | SAM | 4/29/2025 9:27:07 AM | MMDadoda | 4/30/2025 2:29:43 PM | Peak Integrated by Software |
| Q1665-22 | VL042425.D | Cyclohexane | SAM | 4/29/2025 9:27:07 AM | MMDadoda | 4/30/2025 2:29:43 PM | Peak Integrated by Software |
| Q1665-22 | VL042425.D | Heptane | SAM | 4/29/2025 9:27:07 AM | MMDadoda | 4/30/2025 2:29:43 PM | Peak Integrated by Software |
| Q1665-22 | VL042425.D | tert-Butyl alcohol | SAM | 4/29/2025 9:27:07 AM | MMDadoda | 4/30/2025 2:29:43 PM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | vl042925 | Instrument | MSVOA_l |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDCCC010 | VL042436.D | 1,1,2-Trichloroethane | SAM | 4/30/2025 7:49:08 AM | MMDadoda | 4/30/2025 2:26:33 PM | Peak Integrated by Software |
| VSTDCCC010 | VL042436.D | m/p-Xylene | SAM | 4/30/2025 7:49:08 AM | MMDadoda | 4/30/2025 2:26:33 PM | Peak Integrated by Software |
| VL0429ABS01 | VL042438.D | m/p-Xylene | SAM | 4/30/2025 7:49:14 AM | MMDadoda | 4/30/2025 2:26:38 PM | Peak Integrated by Software |
| VL0429ABS01 | VL042438.D | Methyl Methacrylate | SAM | 4/30/2025 7:49:14 AM | MMDadoda | 4/30/2025 2:26:38 PM | Peak Integrated by Software |
| Q1665-07DL | VL042451.D | 2,2,4-Trimethylpentane | SAM | 4/30/2025 7:52:06 AM | MMDadoda | 4/30/2025 2:27:43 PM | Peak Integrated by Software |
| Q1665-07DL | VL042451.D | m/p-Xylene | SAM | 4/30/2025 7:52:06 AM | MMDadoda | 4/30/2025 2:27:43 PM | Peak Integrated by Software |
| Q1665-19DL | VL042452.D | 2,2,4-Trimethylpentane | SAM | 4/30/2025 7:49:38 AM | MMDadoda | 4/30/2025 2:27:50 PM | Peak Integrated by Software |
| Q1665-19DL | VL042452.D | m/p-Xylene | SAM | 4/30/2025 7:49:38 AM | MMDadoda | 4/30/2025 2:27:50 PM | Peak Integrated by Software |
| Q1665-19DL | VL042452.D | Propene | SAM | 4/30/2025 7:49:38 AM | MMDadoda | 4/30/2025 2:27:50 PM | Peak Integrated by Software |
| Q1665-19DL | VL042452.D | Toluene | SAM | 4/30/2025 7:49:38 AM | MMDadoda | 4/30/2025 2:27:50 PM | Peak Integrated by Software |
| Q1665-21DL | VL042453.D | m/p-Xylene | SAM | 4/30/2025 7:52:12 AM | MMDadoda | 4/30/2025 2:27:54 PM | Peak Integrated by Software |
| Q1665-21DL | VL042453.D | Propene | SAM | 4/30/2025 7:52:12 AM | MMDadoda | 4/30/2025 2:27:54 PM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | vl042925 | Instrument | MSVOA_I |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|

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**Instrument ID: MSVOA_L**

## Daily Analysis Runlog For Sequence/QCBatch ID # VL032725

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 4/3/2025 8:14:07 AM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 4/3/2025 8:45:16 AM | | |
| SubDirectory | VL032725 | HP Acquire Method | TO15AIR.M | HP Processing Method | VL032725AIR.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | AP2589 |
| Initial Calibration Stds | AP2593,AP2595,AP2596 |
| CCC | AP2593 |
| Internal Standard/PEM | AP2589 |
| ICV/I.BLK | AP2594 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VL042171.D | 27 Mar 2025 07:44 | SY/MD | Ok |
| 2 | VSTDICCC010 | VL042172.D | 27 Mar 2025 08:26 | SY/MD | Ok,M |
| 3 | VSTDICC002 | VL042173.D | 27 Mar 2025 08:59 | SY/MD | Ok,M |
| 4 | VSTDICC001 | VL042174.D | 27 Mar 2025 09:30 | SY/MD | Ok,M |
| 5 | VSTDICC0.5 | VL042175.D | 27 Mar 2025 10:01 | SY/MD | Ok,M |
| 6 | VSTDICC0.1 | VL042176.D | 27 Mar 2025 10:32 | SY/MD | Ok,M |
| 7 | VSTDICC0.03 | VL042177.D | 27 Mar 2025 11:03 | SY/MD | Ok,M |
| 8 | VSTDICC015 | VL042178.D | 27 Mar 2025 11:36 | SY/MD | Ok,M |
| 9 | VSTDICV010 | VL042179.D | 27 Mar 2025 12:23 | SY/MD | Ok,M |
| 10 | VL0327ABL01 | VL042180.D | 27 Mar 2025 13:50 | SY/MD | Ok |
| 11 | VL0327ABS01 | VL042181.D | 27 Mar 2025 14:39 | SY/MD | Ok,M |
| 12 | QC032625 CAN 10448 | VL042182.D | 27 Mar 2025 16:41 | SY/MD | Ok |
| 13 | Q1649-01 | VL042183.D | 27 Mar 2025 17:13 | SY/MD | Not Ok |
| 14 | Q1649-02 | VL042184.D | 27 Mar 2025 17:45 | SY/MD | Not Ok |
| 15 | Q1669-01 | VL042185.D | 27 Mar 2025 18:22 | SY/MD | Dilution |
| 16 | Q1669-02 | VL042186.D | 27 Mar 2025 18:59 | SY/MD | Ok,M |
| 17 | Q1669-03 | VL042187.D | 27 Mar 2025 19:36 | SY/MD | Ok,M |
| 18 | Q1669-04 | VL042188.D | 27 Mar 2025 20:12 | SY/MD | Ok,M |
| 19 | Q1669-09 | VL042189.D | 27 Mar 2025 20:48 | SY/MD | Ok,M |
| 20 | Q1669-09DUP | VL042190.D | 27 Mar 2025 21:24 | SY/MD | Ok,M |
| 21 | Q1669-05 | VL042191.D | 27 Mar 2025 21:57 | SY/MD | Not Ok |

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**Instrument ID: MSVOA_L**

## Daily Analysis Runlog For Sequence/QCBatch ID # VL032725

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 4/3/2025 8:14:07 AM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 4/3/2025 8:45:16 AM | | |
| SubDirectory | VL032725 | HP Acquire Method | TO15AIR.M | HP Processing Method | VL032725AIR.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | AP2589 |
| Initial Calibration Stds | AP2593,AP2595,AP2596 |
| CCC | AP2593 |
| Internal Standard/PEM | AP2589 |
| ICV/I.BLK | AP2594 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | Q1669-07DL | VL042192.D | 27 Mar 2025 22:29 | SY/MD | Ok,M |
| 23 | Q1669-08 | VL042193.D | 27 Mar 2025 23:01 | SY/MD | Not Ok |
| 24 | VIBLK | VL042194.D | 27 Mar 2025 23:34 | SY/MD | Ok |
| 25 | Q1669-01DL | VL042195.D | 28 Mar 2025 00:06 | SY/MD | Ok,M |
| 26 | Q1669-01DUP | VL042196.D | 28 Mar 2025 00:44 | SY/MD | Ok,M |
| 27 | Q1669-05 | VL042197.D | 28 Mar 2025 01:20 | SY/MD | Ok,M |
| 28 | Q1669-07 | VL042198.D | 28 Mar 2025 01:57 | SY/MD | Dilution |
| 29 | Q1669-08 | VL042199.D | 28 Mar 2025 02:33 | SY/MD | Ok,M |

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**Instrument ID: MSVOA_L**

## Daily Analysis Runlog For Sequence/QCBatch ID # VL040925

| | | | | | |
|---|---|---|---|---|---|
| Review By | Semsettin Yesilyurt | Review On | 4/10/2025 7:20:08 PM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 4/10/2025 7:21:16 PM | | |
| SubDirectory | VL040925 | HP Acquire Method | TO15AIR.M | HP Processing Method | VL032725AIR.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | AP2591 |
| Initial Calibration Stds | AP2593,AP2595,AP2596 |
| CCC | AP2593 |
| Internal Standard/PEM | AP2591 |
| ICV/I.BLK | AP2594 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VL042285.D | 09 Apr 2025 09:38 | SY/MD | Ok |
| 2 | VSTDCCC010 | VL042286.D | 09 Apr 2025 10:20 | SY/MD | Ok,M |
| 3 | VL0409ABL01 | VL042287.D | 09 Apr 2025 11:03 | SY/MD | Ok |
| 4 | VL0409ABS01 | VL042288.D | 09 Apr 2025 11:46 | SY/MD | Not Ok |
| 5 | VL0409ABS02 | VL042289.D | 09 Apr 2025 12:31 | SY/MD | Ok,M |
| 6 | Q1665-01 | VL042290.D | 09 Apr 2025 13:25 | SY/MD | Ok,M |
| 7 | Q1665-01DUP | VL042291.D | 09 Apr 2025 14:02 | SY/MD | Ok,M |
| 8 | Q1665-04 | VL042292.D | 09 Apr 2025 14:36 | SY/MD | Ok,M |
| 9 | Q1665-06 | VL042293.D | 09 Apr 2025 15:15 | SY/MD | Ok,M |
| 10 | Q1665-08 | VL042294.D | 09 Apr 2025 15:50 | SY/MD | Ok,M |
| 11 | Q1665-09 | VL042295.D | 09 Apr 2025 16:23 | SY/MD | Ok,M |
| 12 | Q1665-20 | VL042296.D | 09 Apr 2025 16:57 | SY/MD | Ok,M |
| 13 | Q1757-02 | VL042297.D | 09 Apr 2025 17:31 | SY/MD | Ok,M |
| 14 | Q1757-01 | VL042298.D | 10 Apr 2025 07:54 | SY/MD | Ok,M |

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**Instrument ID: MSVOA_L**

## Daily Analysis Runlog For Sequence/QCBatch ID # VL041125

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Semsettin Yesilyurt | Review On | 4/16/2025 9:18:47 PM | | | | |
| Supervise By | Mahesh Dadoda | Supervise On | 4/17/2025 1:40:37 PM | | | | |
| SubDirectory | VL041125 | HP Acquire Method | TO15AIR.M | HP Processing Method | VL032725AIR.M | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | AP2591 |
| Initial Calibration Stds | AP2593,AP2595,AP2596 |
| CCC | AP2593 |
| Internal Standard/PEM | AP2591 |
| ICV/I.BLK | AP2594 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VL042311.D | 11 Apr 2025 08:18 | SY/MD | Ok |
| 2 | VSTDCCC010 | VL042312.D | 11 Apr 2025 09:50 | SY/MD | Ok,M |
| 3 | VL0411ABL01 | VL042313.D | 11 Apr 2025 10:36 | SY/MD | Ok |
| 4 | VL0411ABS01 | VL042314.D | 11 Apr 2025 11:23 | SY/MD | Ok,M |
| 5 | QC041025CAN 10596 | VL042315.D | 11 Apr 2025 12:08 | SY/MD | Not Ok |
| 6 | QC041025CAN 10596 | VL042316.D | 11 Apr 2025 12:40 | SY/MD | Ok |
| 7 | Q1665-03 | VL042317.D | 11 Apr 2025 13:15 | SY/MD | Dilution |
| 8 | Q1665-03DUP | VL042318.D | 11 Apr 2025 13:52 | SY/MD | Ok,M |
| 9 | Q1665-10 | VL042319.D | 11 Apr 2025 14:27 | SY/MD | Dilution |
| 10 | Q1665-11 | VL042320.D | 11 Apr 2025 15:01 | SY/MD | Dilution |
| 11 | Q1665-18 | VL042321.D | 11 Apr 2025 15:36 | SY/MD | Dilution |
| 12 | Q1665-03DL | VL042322.D | 11 Apr 2025 16:08 | SY/MD | Ok |
| 13 | Q1665-10DL | VL042323.D | 11 Apr 2025 16:39 | SY/MD | Dilution |
| 14 | Q1665-11DL | VL042324.D | 11 Apr 2025 17:10 | SY/MD | Ok,M |

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**Instrument ID: MSVOA_L**

## Daily Analysis Runlog For Sequence/QCBatch ID # VL041525

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Semsettin Yesilyurt | Review On | 4/16/2025 2:19:24 PM | | | | |
| Supervise By | Mahesh Dadoda | Supervise On | 4/16/2025 3:47:46 PM | | | | |
| SubDirectory | VL041525 | HP Acquire Method | TO15AIR.M | | HP Processing Method | VL032725AIR.M | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | AP2591 |
| Initial Calibration Stds | AP2593,AP2595,AP2596 |
| CCC | AP2593 |
| Internal Standard/PEM | AP2591 |
| ICV/I.BLK | AP2594 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VL042325.D | 15 Apr 2025 07:45 | SY/MD | Ok |
| 2 | VSTDCCC010 | VL042326.D | 15 Apr 2025 11:30 | SY/MD | Ok,M |
| 3 | VL0415ABL01 | VL042327.D | 15 Apr 2025 12:12 | SY/MD | Ok |
| 4 | VL0415ABS01 | VL042328.D | 15 Apr 2025 12:54 | SY/MD | Ok,M |
| 5 | QC041425 CAN 10401 | VL042329.D | 15 Apr 2025 13:26 | SY/MD | Not Ok |
| 6 | QC041425 CAN 10401 | VL042330.D | 15 Apr 2025 13:57 | SY/MD | Ok |
| 7 | Q1665-18DL | VL042331.D | 15 Apr 2025 14:29 | SY/MD | Ok |
| 8 | Q1665-10DL2 | VL042332.D | 15 Apr 2025 15:01 | SY/MD | Ok,M |
| 9 | Q1802-02 | VL042333.D | 15 Apr 2025 15:35 | SY/MD | Ok,M |
| 10 | Q1802-02DUP | VL042334.D | 15 Apr 2025 16:08 | SY/MD | Ok,M |
| 11 | Q1802-03 | VL042335.D | 15 Apr 2025 16:42 | SY/MD | Ok,M |
| 12 | Q1802-01 | VL042336.D | 15 Apr 2025 17:14 | SY/MD | Dilution |
| 13 | Q1802-01DL | VL042337.D | 15 Apr 2025 17:46 | SY/MD | Not Ok |
| 14 | Q1802-01DL | VL042338.D | 15 Apr 2025 18:21 | SY/MD | Ok,M |

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**Instrument ID: MSVOA_L**

## Daily Analysis Runlog For Sequence/QCBatch ID # VL041725

| | | | | | |
|---|---|---|---|---|---|
| Review By | Semsettin Yesilyurt | Review On | 4/18/2025 4:23:02 PM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 4/18/2025 10:46:12 PM | | |
| SubDirectory | VL041725 | HP Acquire Method | TO15AIR.M | HP Processing Method | VL041725AIR.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | AP2590 |
| Initial Calibration Stds | AP2598,AP2599,AP2600 |
| CCC | AP2598 |
| Internal Standard/PEM | AP2590 |
| ICV/I.BLK | AP2601 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VL042348.D | 17 Apr 2025 07:50 | SY/MD | Ok |
| 2 | VSTDICCC010 | VL042349.D | 17 Apr 2025 09:44 | SY/MD | Ok,M |
| 3 | VSTDICC002 | VL042350.D | 17 Apr 2025 10:17 | SY/MD | Ok,M |
| 4 | VSTDICC001 | VL042351.D | 17 Apr 2025 10:48 | SY/MD | Ok,M |
| 5 | VSTDICC0.5 | VL042352.D | 17 Apr 2025 11:19 | SY/MD | Ok,M |
| 6 | VSTDICC0.1 | VL042353.D | 17 Apr 2025 11:50 | SY/MD | Ok,M |
| 7 | VSTDICC0.03 | VL042354.D | 17 Apr 2025 12:22 | SY/MD | Ok,M |
| 8 | VSTDICC015 | VL042355.D | 17 Apr 2025 12:54 | SY/MD | Ok,M |
| 9 | VSTDICV010 | VL042356.D | 17 Apr 2025 13:43 | SY/MD | Ok,M |
| 10 | VL0417ABL01 | VL042357.D | 17 Apr 2025 14:23 | SY/MD | Ok |
| 11 | VL0417ABS01 | VL042358.D | 17 Apr 2025 15:39 | SY/MD | Ok,M |
| 12 | Q1665-15 | VL042359.D | 17 Apr 2025 16:12 | SY/MD | Dilution |
| 13 | Q1665-15DL | VL042360.D | 17 Apr 2025 16:44 | SY/MD | Ok,M |
| 14 | Q1668-01 | VL042361.D | 17 Apr 2025 17:17 | SY/MD | Dilution |
| 15 | Q1668-01DUP | VL042362.D | 17 Apr 2025 17:51 | SY/MD | Ok,M |
| 16 | Q1668-03 | VL042363.D | 17 Apr 2025 18:24 | SY/MD | Dilution |
| 17 | Q1668-04 | VL042364.D | 17 Apr 2025 18:58 | SY/MD | Ok,M |
| 18 | Q1668-02 | VL042365.D | 17 Apr 2025 19:31 | SY/MD | Ok,M |
| 19 | Q1726-01 | VL042366.D | 17 Apr 2025 20:05 | SY/MD | Dilution |
| 20 | Q1726-02 | VL042367.D | 17 Apr 2025 20:38 | SY/MD | Dilution |
| 21 | Q1726-03 | VL042368.D | 17 Apr 2025 21:12 | SY/MD | Dilution |

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**Instrument ID: MSVOA_L**

## Daily Analysis Runlog For Sequence/QCBatch ID # VL041725

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Semsettin Yesilyurt | Review On | 4/18/2025 4:23:02 PM | | | | |
| Supervise By | Mahesh Dadoda | Supervise On | 4/18/2025 10:46:12 PM | | | | |
| SubDirectory | VL041725 | HP Acquire Method | TO15AIR.M | HP Processing Method | VL041725AIR.M | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | AP2590 |
| Initial Calibration Stds | AP2598,AP2599,AP2600 |
| CCC | AP2598 |
| Internal Standard/PEM | AP2590 |
| ICV/I.BLK | AP2601 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | Q1726-04 | VL042369.D | 17 Apr 2025 21:45 | SY/MD | Dilution |
| 23 | Q1726-05 | VL042370.D | 17 Apr 2025 22:19 | SY/MD | Dilution |
| 24 | Q1726-06 | VL042371.D | 17 Apr 2025 22:52 | SY/MD | Dilution |
| 25 | Q1726-07 | VL042372.D | 17 Apr 2025 23:26 | SY/MD | Dilution |
| 26 | Q1726-07DL | VL042373.D | 17 Apr 2025 23:57 | SY/MD | Dilution |
| 27 | Q1668-01DL | VL042374.D | 18 Apr 2025 00:28 | SY/MD | Ok,M |
| 28 | Q1668-03DL | VL042375.D | 18 Apr 2025 00:59 | SY/MD | Ok,M |
| 29 | Q1726-01DL | VL042376.D | 18 Apr 2025 01:30 | SY/MD | Dilution |
| 30 | Q1726-02DL | VL042377.D | 18 Apr 2025 02:01 | SY/MD | Dilution |
| 31 | Q1726-03DL | VL042378.D | 18 Apr 2025 02:32 | SY/MD | Dilution |
| 32 | Q1726-04DL | VL042379.D | 18 Apr 2025 03:03 | SY/MD | Dilution |
| 33 | Q1726-05DL | VL042380.D | 18 Apr 2025 03:34 | SY/MD | Dilution |
| 34 | Q1726-06DL | VL042381.D | 18 Apr 2025 04:05 | SY/MD | Dilution |

M : Manual Integration

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**Instrument ID: MSVOA_L**

## Daily Analysis Runlog For Sequence/QCBatch ID # VL042825

| | | | | | |
|---|---|---|---|---|---|
| Review By | Semsettin Yesilyurt | Review On | 4/30/2025 2:24:11 PM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 4/30/2025 2:30:41 PM | | |
| SubDirectory | VL042825 | HP Acquire Method | TO15AIR.M | HP Processing Method | VL041725AIR.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | AP2602 |
| Initial Calibration Stds | AP2598,AP2599,AP2600 |
| CCC | AP2598 |
| Internal Standard/PEM | AP2602 |
| ICV/I.BLK | AP2601 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VL042415.D | 28 Apr 2025 07:59 | SY/MD | Ok |
| 2 | VSTDCCC010 | VL042416.D | 28 Apr 2025 08:44 | SY/MD | Ok,M |
| 3 | VL0428ABL01 | VL042417.D | 28 Apr 2025 09:27 | SY/MD | Ok |
| 4 | VL0428ABS01 | VL042418.D | 28 Apr 2025 10:10 | SY/MD | Ok,M |
| 5 | Q1665-05 | VL042419.D | 28 Apr 2025 10:59 | SY/MD | Ok,M |
| 6 | Q1665-07 | VL042420.D | 28 Apr 2025 11:33 | SY/MD | Dilution |
| 7 | Q1665-12 | VL042421.D | 28 Apr 2025 12:17 | SY/MD | Ok,M |
| 8 | Q1665-16 | VL042422.D | 28 Apr 2025 12:51 | SY/MD | Ok,M |
| 9 | Q1665-19 | VL042423.D | 28 Apr 2025 13:26 | SY/MD | Dilution |
| 10 | Q1665-21 | VL042424.D | 28 Apr 2025 14:00 | SY/MD | Dilution |
| 11 | Q1665-22 | VL042425.D | 28 Apr 2025 14:34 | SY/MD | Ok,M |
| 12 | Q1880-02 | VL042426.D | 28 Apr 2025 15:08 | SY/MD | Ok,M |
| 13 | Q1880-03 | VL042427.D | 28 Apr 2025 15:42 | SY/MD | Ok,M |
| 14 | Q1880-08 | VL042428.D | 28 Apr 2025 16:16 | SY/MD | Ok,M |
| 15 | Q1880-10 | VL042429.D | 28 Apr 2025 16:50 | SY/MD | Ok,M |
| 16 | Q1880-10DUP | VL042430.D | 28 Apr 2025 17:26 | SY/MD | Ok,M |
| 17 | Q1880-01 | VL042431.D | 28 Apr 2025 18:00 | SY/MD | Dilution |
| 18 | Q1880-06 | VL042432.D | 28 Apr 2025 18:35 | SY/MD | Ok,M |
| 19 | Q1880-09 | VL042433.D | 28 Apr 2025 19:08 | SY/MD | Ok,M |
| 20 | Q1880-04 | VL042434.D | 28 Apr 2025 19:41 | SY/MD | Not Ok |

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**Instrument ID: MSVOA_L**

## Daily Analysis Runlog For Sequence/QCBatch ID # VL042925

| | | | | | |
|---|---|---|---|---|---|
| Review By | Semsettin Yesilyurt | Review On | 4/30/2025 2:23:53 PM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 4/30/2025 2:28:33 PM | | |
| SubDirectory | VL042925 | HP Acquire Method | TO15AIR.M | HP Processing Method | VL041725AIR.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | AP2602 |
| Initial Calibration Stds | AP2598,AP2599,AP2600 |
| CCC | AP2598 |
| Internal Standard/PEM | AP2602 |
| ICV/I.BLK | AP2601 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VL042435.D | 29 Apr 2025 07:55 | SY/MD | Ok |
| 2 | VSTDCCC010 | VL042436.D | 29 Apr 2025 08:39 | SY/MD | Ok,M |
| 3 | VL0429ABL01 | VL042437.D | 29 Apr 2025 09:25 | SY/MD | Ok |
| 4 | VL0429ABS01 | VL042438.D | 29 Apr 2025 10:08 | SY/MD | Ok,M |
| 5 | Q1880-04 | VL042439.D | 29 Apr 2025 10:59 | SY/MD | Ok,M |
| 6 | Q1880-05DL | VL042440.D | 29 Apr 2025 11:30 | SY/MD | Not Ok |
| 7 | Q1880-07DL | VL042441.D | 29 Apr 2025 12:02 | SY/MD | Ok,M |
| 8 | Q1880-11DL | VL042442.D | 29 Apr 2025 12:33 | SY/MD | Not Ok |
| 9 | Q1908-01 | VL042443.D | 29 Apr 2025 13:11 | SY/MD | Ok,M |
| 10 | Q1908-02 | VL042444.D | 29 Apr 2025 13:45 | SY/MD | Not Ok |
| 11 | Q1908-03 | VL042445.D | 29 Apr 2025 14:19 | SY/MD | Ok,M |
| 12 | Q1908-03DL | VL042446.D | 29 Apr 2025 14:51 | SY/MD | Not Ok |
| 13 | Q1880-05 | VL042447.D | 29 Apr 2025 15:24 | SY/MD | Ok,M |
| 14 | Q1880-07 | VL042448.D | 29 Apr 2025 15:58 | SY/MD | Dilution |
| 15 | Q1880-11 | VL042449.D | 29 Apr 2025 16:32 | SY/MD | Ok,M |
| 16 | Q1880-01DL | VL042450.D | 29 Apr 2025 17:04 | SY/MD | Ok |
| 17 | Q1665-07DL | VL042451.D | 29 Apr 2025 17:37 | SY/MD | Ok,M |
| 18 | Q1665-19DL | VL042452.D | 29 Apr 2025 18:09 | SY/MD | Ok,M |
| 19 | Q1665-21DL | VL042453.D | 29 Apr 2025 18:42 | SY/MD | Ok,M |
| 20 | Q1908-01DUP | VL042454.D | 29 Apr 2025 19:57 | SY/MD | Ok,M |
| 21 | Q1908-02DL | VL042455.D | 29 Apr 2025 20:30 | SY/MD | Not Ok |

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**Instrument ID: MSVOA_L**

## Daily Analysis Runlog For Sequence/QCBatch ID # VL042925

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Semsettin Yesilyurt | Review On | 4/30/2025 2:23:53 PM | | | | |
| Supervise By | Mahesh Dadoda | Supervise On | 4/30/2025 2:28:33 PM | | | | |
| SubDirectory | VL042925 | HP Acquire Method | TO15AIR.M | HP Processing Method | VL041725AIR.M | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | AP2602 |
| Initial Calibration Stds | AP2598,AP2599,AP2600 |
| CCC | AP2598 |
| Internal Standard/PEM | AP2602 |
| ICV/I.BLK | AP2601 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | Q1908-02 | VL042456.D | 29 Apr 2025 21:58 | SY/MD | Ok,M |

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**Instrument ID:** MSVOA_L

## Daily Analysis Runlog For Sequence/QCBatch ID # VL032725

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 4/3/2025 8:14:07 AM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 4/3/2025 8:45:16 AM | | |
| SubDirectory | VL032725 | HP Acquire Method | TO15AIR.M | HP Processing Method | VL032725AIR.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | AP2589 |
| Initial Calibration Stds | AP2593,AP2595,AP2596 |
| CCC | AP2593 |
| Internal Standard/PEM | AP2589 |
| ICV/I.BLK | AP2594 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VL042171.D | 27 Mar 2025 07:44 | | SY/MD | Ok |
| 2 | VSTDICCC010 | VSTDICCC010 | VL042172.D | 27 Mar 2025 08:26 | | SY/MD | Ok,M |
| 3 | VSTDICC002 | VSTDICC002 | VL042173.D | 27 Mar 2025 08:59 | | SY/MD | Ok,M |
| 4 | VSTDICC001 | VSTDICC001 | VL042174.D | 27 Mar 2025 09:30 | | SY/MD | Ok,M |
| 5 | VSTDICC0.5 | VSTDICC0.5 | VL042175.D | 27 Mar 2025 10:01 | | SY/MD | Ok,M |
| 6 | VSTDICC0.1 | VSTDICC0.1 | VL042176.D | 27 Mar 2025 10:32 | | SY/MD | Ok,M |
| 7 | VSTDICC0.03 | VSTDICC0.03 | VL042177.D | 27 Mar 2025 11:03 | | SY/MD | Ok,M |
| 8 | VSTDICC015 | VSTDICC015 | VL042178.D | 27 Mar 2025 11:36 | | SY/MD | Ok,M |
| 9 | VSTDICV010 | ICVVL032725 | VL042179.D | 27 Mar 2025 12:23 | | SY/MD | Ok,M |
| 10 | VL0327ABL01 | VL0327ABL01 | VL042180.D | 27 Mar 2025 13:50 | | SY/MD | Ok |
| 11 | VL0327ABS01 | VL0327ABS01 | VL042181.D | 27 Mar 2025 14:39 | | SY/MD | Ok,M |
| 12 | QC032625 CAN 10448 | QC032625 CAN 10448 | VL042182.D | 27 Mar 2025 16:41 | | SY/MD | Ok |
| 13 | Q1649-01 | SV1 | VL042183.D | 27 Mar 2025 17:13 | rerun 4X,not required | SY/MD | Not Ok |
| 14 | Q1649-02 | SV2 | VL042184.D | 27 Mar 2025 17:45 | rerun 4X,not required | SY/MD | Not Ok |
| 15 | Q1669-01 | IA-B9-3-3262025 | VL042185.D | 27 Mar 2025 18:22 | Need 5x | SY/MD | Dilution |
| 16 | Q1669-02 | IA-B9-2-3262025 | VL042186.D | 27 Mar 2025 18:59 | | SY/MD | Ok,M |
| 17 | Q1669-03 | IA-B9-1-3262025 | VL042187.D | 27 Mar 2025 19:36 | | SY/MD | Ok,M |
| 18 | Q1669-04 | AA-2-3252025 | VL042188.D | 27 Mar 2025 20:12 | | SY/MD | Ok,M |

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**Instrument ID:** MSVOA_L

## Daily Analysis Runlog For Sequence/QCBatch ID # VL032725

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 4/3/2025 8:14:07 AM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 4/3/2025 8:45:16 AM | | |
| SubDirectory | VL032725 | HP Acquire Method | TO15AIR.M | HP Processing Method | VL032725AIR.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | AP2589 |
| Initial Calibration Stds | AP2593,AP2595,AP2596 |
| CCC | AP2593 |
| Internal Standard/PEM | AP2589 |
| ICV/I.BLK | AP2594 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q1669-09 | AA-3-3252025 | VL042189.D | 27 Mar 2025 20:48 | | SY/MD | Ok,M |
| 20 | Q1669-09DUP | AA-3-3252025DUP | VL042190.D | 27 Mar 2025 21:24 | | SY/MD | Ok,M |
| 21 | Q1669-05 | SSSG-B16-3-3262025 | VL042191.D | 27 Mar 2025 21:57 | Need straight run | SY/MD | Not Ok |
| 22 | Q1669-07DL | SSSG-B16-1-3262025D | VL042192.D | 27 Mar 2025 22:29 | | SY/MD | Ok,M |
| 23 | Q1669-08 | SSSG-B16-2-3262025 | VL042193.D | 27 Mar 2025 23:01 | Need straight run | SY/MD | Not Ok |
| 24 | VIBLK | VIBLK | VL042194.D | 27 Mar 2025 23:34 | | SY/MD | Ok |
| 25 | Q1669-01DL | IA-B9-3-3262025DL | VL042195.D | 28 Mar 2025 00:06 | | SY/MD | Ok,M |
| 26 | Q1669-01DUP | IA-B9-3-3262025DUP | VL042196.D | 28 Mar 2025 00:44 | | SY/MD | Ok,M |
| 27 | Q1669-05 | SSSG-B16-3-3262025 | VL042197.D | 28 Mar 2025 01:20 | | SY/MD | Ok,M |
| 28 | Q1669-07 | SSSG-B16-1-3262025 | VL042198.D | 28 Mar 2025 01:57 | Need 10X | SY/MD | Dilution |
| 29 | Q1669-08 | SSSG-B16-2-3262025 | VL042199.D | 28 Mar 2025 02:33 | | SY/MD | Ok,M |

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**Instrument ID:** MSVOA_L

## Daily Analysis Runlog For Sequence/QCBatch ID # VL040925

| | | | | | |
|---|---|---|---|---|---|
| Review By | Semsettin Yesilyurt | Review On | 4/10/2025 7:20:08 PM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 4/10/2025 7:21:16 PM | | |
| SubDirectory | VL040925 | HP Acquire Method | TO15AIR.M | HP Processing Method | VL032725AIR.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | AP2591 |
| Initial Calibration Stds | AP2593,AP2595,AP2596 |
| CCC | AP2593 |
| Internal Standard/PEM | AP2591 |
| ICV/I.BLK | AP2594 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VL042285.D | 09 Apr 2025 09:38 | | SY/MD | Ok |
| 2 | VSTDCCC010 | VSTDCCC010 | VL042286.D | 09 Apr 2025 10:20 | | SY/MD | Ok,M |
| 3 | VL0409ABL01 | VL0409ABL01 | VL042287.D | 09 Apr 2025 11:03 | | SY/MD | Ok |
| 4 | VL0409ABS01 | VL0409ABS01 | VL042288.D | 09 Apr 2025 11:46 | Recovery fail | SY/MD | Not Ok |
| 5 | VL0409ABS02 | VL0409ABS02 | VL042289.D | 09 Apr 2025 12:31 | | SY/MD | Ok,M |
| 6 | Q1665-01 | AA-DUP-1-3242025 | VL042290.D | 09 Apr 2025 13:25 | | SY/MD | Ok,M |
| 7 | Q1665-01DUP | AA-DUP-1-3242025DU | VL042291.D | 09 Apr 2025 14:02 | | SY/MD | Ok,M |
| 8 | Q1665-04 | AA-1-3242025 | VL042292.D | 09 Apr 2025 14:36 | | SY/MD | Ok,M |
| 9 | Q1665-06 | IA-B9-1-3242025 | VL042293.D | 09 Apr 2025 15:15 | | SY/MD | Ok,M |
| 10 | Q1665-08 | IA-DUP-2-3242025 | VL042294.D | 09 Apr 2025 15:50 | | SY/MD | Ok,M |
| 11 | Q1665-09 | IA-B9-2-3242025 | VL042295.D | 09 Apr 2025 16:23 | | SY/MD | Ok,M |
| 12 | Q1665-20 | IA-B9-3-3242025 | VL042296.D | 09 Apr 2025 16:57 | | SY/MD | Ok,M |
| 13 | Q1757-02 | IA1 | VL042297.D | 09 Apr 2025 17:31 | | SY/MD | Ok,M |
| 14 | Q1757-01 | SV1 | VL042298.D | 10 Apr 2025 07:54 | | SY/MD | Ok,M |

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**Instrument ID:** MSVOA_L

## Daily Analysis Runlog For Sequence/QCBatch ID # VL041125

| | | | | | |
|---|---|---|---|---|---|
| Review By | Semsettin Yesilyurt | Review On | 4/16/2025 9:18:47 PM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 4/17/2025 1:40:37 PM | | |
| SubDirectory | VL041125 | HP Acquire Method | TO15AIR.M | HP Processing Method | VL032725AIR.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | AP2591 |
| Initial Calibration Stds | AP2593,AP2595,AP2596 |
| CCC | AP2593 |
| Internal Standard/PEM | AP2591 |
| ICV/I.BLK | AP2594 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VL042311.D | 11 Apr 2025 08:18 | | SY/MD | Ok |
| 2 | VSTDCCC010 | VSTDCCC010 | VL042312.D | 11 Apr 2025 09:50 | | SY/MD | Ok,M |
| 3 | VL0411ABL01 | VL0411ABL01 | VL042313.D | 11 Apr 2025 10:36 | | SY/MD | Ok |
| 4 | VL0411ABS01 | VL0411ABS01 | VL042314.D | 11 Apr 2025 11:23 | | SY/MD | Ok,M |
| 5 | QC041025CAN 10596 | QC041025CAN 10596 | VL042315.D | 11 Apr 2025 12:08 | Contaminated | SY/MD | Not Ok |
| 6 | QC041025CAN 10596 | QC041025CAN 10596 | VL042316.D | 11 Apr 2025 12:40 | | SY/MD | Ok |
| 7 | Q1665-03 | IA-B10-2-3242025 | VL042317.D | 11 Apr 2025 13:15 | Need 10X | SY/MD | Dilution |
| 8 | Q1665-03DUP | IA-B10-2-3242025DUP | VL042318.D | 11 Apr 2025 13:52 | | SY/MD | Ok,M |
| 9 | Q1665-10 | IA-B10-4-3242025 | VL042319.D | 11 Apr 2025 14:27 | Need 40X | SY/MD | Dilution |
| 10 | Q1665-11 | IA-B10-1-3242025 | VL042320.D | 11 Apr 2025 15:01 | Need 10X | SY/MD | Dilution |
| 11 | Q1665-18 | IA-B10-3-3242025 | VL042321.D | 11 Apr 2025 15:36 | Need 10X | SY/MD | Dilution |
| 12 | Q1665-03DL | IA-B10-2-3242025DL | VL042322.D | 11 Apr 2025 16:08 | | SY/MD | Ok |
| 13 | Q1665-10DL | IA-B10-4-3242025DL | VL042323.D | 11 Apr 2025 16:39 | Need 100X | SY/MD | Dilution |
| 14 | Q1665-11DL | IA-B10-1-3242025DL | VL042324.D | 11 Apr 2025 17:10 | | SY/MD | Ok,M |

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**Instrument ID:** MSVOA_L

## Daily Analysis Runlog For Sequence/QCBatch ID # VL041525

| | | | | | |
|---|---|---|---|---|---|
| Review By | Semsettin Yesilyurt | Review On | 4/16/2025 2:19:24 PM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 4/16/2025 3:47:46 PM | | |
| SubDirectory | VL041525 | HP Acquire Method | TO15AIR.M | HP Processing Method | VL032725AIR.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | AP2591 |
| Initial Calibration Stds | AP2593,AP2595,AP2596 |
| CCC | AP2593 |
| Internal Standard/PEM | AP2591 |
| ICV/I.BLK | AP2594 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VL042325.D | 15 Apr 2025 07:45 | | SY/MD | Ok |
| 2 | VSTDCCC010 | VSTDCCC010 | VL042326.D | 15 Apr 2025 11:30 | | SY/MD | Ok,M |
| 3 | VL0415ABL01 | VL0415ABL01 | VL042327.D | 15 Apr 2025 12:12 | | SY/MD | Ok |
| 4 | VL0415ABS01 | VL0415ABS01 | VL042328.D | 15 Apr 2025 12:54 | | SY/MD | Ok,M |
| 5 | QC041425 CAN 10401 | QC041425 CAN 10401 | VL042329.D | 15 Apr 2025 13:26 | carryover | SY/MD | Not Ok |
| 6 | QC041425 CAN 10401 | QC041425 CAN 10401 | VL042330.D | 15 Apr 2025 13:57 | | SY/MD | Ok |
| 7 | Q1665-18DL | IA-B10-3-3242025DL | VL042331.D | 15 Apr 2025 14:29 | | SY/MD | Ok |
| 8 | Q1665-10DL2 | IA-B10-4-3242025DL2 | VL042332.D | 15 Apr 2025 15:01 | | SY/MD | Ok,M |
| 9 | Q1802-02 | IA1 | VL042333.D | 15 Apr 2025 15:35 | | SY/MD | Ok,M |
| 10 | Q1802-02DUP | IA1DUP | VL042334.D | 15 Apr 2025 16:08 | | SY/MD | Ok,M |
| 11 | Q1802-03 | OA1 | VL042335.D | 15 Apr 2025 16:42 | | SY/MD | Ok,M |
| 12 | Q1802-01 | SV1 | VL042336.D | 15 Apr 2025 17:14 | Need 40X | SY/MD | Dilution |
| 13 | Q1802-01DL | SV1DL | VL042337.D | 15 Apr 2025 17:46 | Need further dilution | SY/MD | Not Ok |
| 14 | Q1802-01DL | SV1DL | VL042338.D | 15 Apr 2025 18:21 | | SY/MD | Ok,M |

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**Instrument ID:** MSVOA_L

## Daily Analysis Runlog For Sequence/QCBatch ID # VL041725

| | | | | | |
|---|---|---|---|---|---|
| Review By | Semsettin Yesilyurt | Review On | 4/18/2025 4:23:02 PM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 4/18/2025 10:46:12 PM | | |
| SubDirectory | VL041725 | HP Acquire Method | TO15AIR.M | HP Processing Method | VL041725AIR.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | AP2590 |
| Initial Calibration Stds | AP2598,AP2599,AP2600 |
| CCC | AP2598 |
| Internal Standard/PEM | AP2590 |
| ICV/I.BLK | AP2601 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VL042348.D | 17 Apr 2025 07:50 | | SY/MD | Ok |
| 2 | VSTDICCC010 | VSTDICCC010 | VL042349.D | 17 Apr 2025 09:44 | | SY/MD | Ok,M |
| 3 | VSTDICC002 | VSTDICC002 | VL042350.D | 17 Apr 2025 10:17 | | SY/MD | Ok,M |
| 4 | VSTDICC001 | VSTDICC001 | VL042351.D | 17 Apr 2025 10:48 | | SY/MD | Ok,M |
| 5 | VSTDICC0.5 | VSTDICC0.5 | VL042352.D | 17 Apr 2025 11:19 | | SY/MD | Ok,M |
| 6 | VSTDICC0.1 | VSTDICC0.1 | VL042353.D | 17 Apr 2025 11:50 | | SY/MD | Ok,M |
| 7 | VSTDICC0.03 | VSTDICC0.03 | VL042354.D | 17 Apr 2025 12:22 | | SY/MD | Ok,M |
| 8 | VSTDICC015 | VSTDICC015 | VL042355.D | 17 Apr 2025 12:54 | | SY/MD | Ok,M |
| 9 | VSTDICV010 | ICVVL041725 | VL042356.D | 17 Apr 2025 13:43 | | SY/MD | Ok,M |
| 10 | VL0417ABL01 | VL0417ABL01 | VL042357.D | 17 Apr 2025 14:23 | | SY/MD | Ok |
| 11 | VL0417ABS01 | VL0417ABS01 | VL042358.D | 17 Apr 2025 15:39 | | SY/MD | Ok,M |
| 12 | Q1665-15 | IA-B14-1-3242025 | VL042359.D | 17 Apr 2025 16:12 | Need 10X | SY/MD | Dilution |
| 13 | Q1665-15DL | IA-B14-1-3242025DL | VL042360.D | 17 Apr 2025 16:44 | | SY/MD | Ok,M |
| 14 | Q1668-01 | IA-B1-4-3252025 | VL042361.D | 17 Apr 2025 17:17 | Need 4X | SY/MD | Dilution |
| 15 | Q1668-01DUP | IA-B1-4-3252025DUP | VL042362.D | 17 Apr 2025 17:51 | | SY/MD | Ok,M |
| 16 | Q1668-03 | IA-B1-3-3252025 | VL042363.D | 17 Apr 2025 18:24 | Need 4X | SY/MD | Dilution |
| 17 | Q1668-04 | IA-B1-1-3252025 | VL042364.D | 17 Apr 2025 18:58 | | SY/MD | Ok,M |
| 18 | Q1668-02 | IA-B1-2-3252025 | VL042365.D | 17 Apr 2025 19:31 | | SY/MD | Ok,M |

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**Instrument ID:** MSVOA_L

## Daily Analysis Runlog For Sequence/QCBatch ID # VL041725

| | | | | | |
|---|---|---|---|---|---|
| Review By | Semsettin Yesilyurt | Review On | 4/18/2025 4:23:02 PM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 4/18/2025 10:46:12 PM | | |
| SubDirectory | VL041725 | HP Acquire Method | TO15AIR.M | HP Processing Method | VL041725AIR.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | AP2590 |
| Initial Calibration Stds | AP2598,AP2599,AP2600 |
| CCC | AP2598 |
| Internal Standard/PEM | AP2590 |
| ICV/I.BLK | AP2601 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q1726-01 | IA-DUP-3-03312025 | VL042366.D | 17 Apr 2025 20:05 | Need 20X | SY/MD | Dilution |
| 20 | Q1726-02 | IA-B2-6-03312025 | VL042367.D | 17 Apr 2025 20:38 | Need 20X | SY/MD | Dilution |
| 21 | Q1726-03 | IA-B2-2-03312025 | VL042368.D | 17 Apr 2025 21:12 | Need 20X | SY/MD | Dilution |
| 22 | Q1726-04 | IA-B2-5-03312025 | VL042369.D | 17 Apr 2025 21:45 | Need 20X | SY/MD | Dilution |
| 23 | Q1726-05 | IA-B2-1-03312025 | VL042370.D | 17 Apr 2025 22:19 | Need 20X | SY/MD | Dilution |
| 24 | Q1726-06 | IA-B2-3-03312025 | VL042371.D | 17 Apr 2025 22:52 | Need 20X | SY/MD | Dilution |
| 25 | Q1726-07 | IA-B2-4-03312025 | VL042372.D | 17 Apr 2025 23:26 | Need 20X | SY/MD | Dilution |
| 26 | Q1726-07DL | IA-B2-4-03312025DL | VL042373.D | 17 Apr 2025 23:57 | Need 40X | SY/MD | Dilution |
| 27 | Q1668-01DL | IA-B1-4-3252025DL | VL042374.D | 18 Apr 2025 00:28 | | SY/MD | Ok,M |
| 28 | Q1668-03DL | IA-B1-3-3252025DL | VL042375.D | 18 Apr 2025 00:59 | | SY/MD | Ok,M |
| 29 | Q1726-01DL | IA-DUP-3-03312025DL | VL042376.D | 18 Apr 2025 01:30 | Need 40X | SY/MD | Dilution |
| 30 | Q1726-02DL | IA-B2-6-03312025DL | VL042377.D | 18 Apr 2025 02:01 | Need 40X | SY/MD | Dilution |
| 31 | Q1726-03DL | IA-B2-2-03312025DL | VL042378.D | 18 Apr 2025 02:32 | Need 100X | SY/MD | Dilution |
| 32 | Q1726-04DL | IA-B2-5-03312025DL | VL042379.D | 18 Apr 2025 03:03 | Need 40X | SY/MD | Dilution |
| 33 | Q1726-05DL | IA-B2-1-03312025DL | VL042380.D | 18 Apr 2025 03:34 | Need 100X | SY/MD | Dilution |
| 34 | Q1726-06DL | IA-B2-3-03312025DL | VL042381.D | 18 Apr 2025 04:05 | Need 100X | SY/MD | Dilution |

M : Manual Integration

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Fax : 908 789 8922

**Instrument ID:** MSVOA_L

## Daily Analysis Runlog For Sequence/QCBatch ID # VL042825

| | | | | | |
|---|---|---|---|---|---|
| Review By | Semsettin Yesilyurt | Review On | 4/30/2025 2:24:11 PM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 4/30/2025 2:30:41 PM | | |
| SubDirectory | VL042825 | HP Acquire Method | TO15AIR.M | HP Processing Method | VL041725AIR.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | AP2602 |
| Initial Calibration Stds | AP2598,AP2599,AP2600 |
| CCC | AP2598 |
| Internal Standard/PEM | AP2602 |
| ICV/I.BLK | AP2601 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VL042415.D | 28 Apr 2025 07:59 | | SY/MD | Ok |
| 2 | VSTDCCC010 | VSTDCCC010 | VL042416.D | 28 Apr 2025 08:44 | | SY/MD | Ok,M |
| 3 | VL0428ABL01 | VL0428ABL01 | VL042417.D | 28 Apr 2025 09:27 | | SY/MD | Ok |
| 4 | VL0428ABS01 | VL0428ABS01 | VL042418.D | 28 Apr 2025 10:10 | | SY/MD | Ok,M |
| 5 | Q1665-05 | IA-B2-3-3242025 | VL042419.D | 28 Apr 2025 10:59 | | SY/MD | Ok,M |
| 6 | Q1665-07 | IA-DUP-1-3242025 | VL042420.D | 28 Apr 2025 11:33 | Need 4x | SY/MD | Dilution |
| 7 | Q1665-12 | IA-B2-6-3242025 | VL042421.D | 28 Apr 2025 12:17 | | SY/MD | Ok,M |
| 8 | Q1665-16 | IA-B2-5-3242025 | VL042422.D | 28 Apr 2025 12:51 | | SY/MD | Ok,M |
| 9 | Q1665-19 | IA-B2-2-3242025 | VL042423.D | 28 Apr 2025 13:26 | Need 4x | SY/MD | Dilution |
| 10 | Q1665-21 | IA-B2-1-3242025 | VL042424.D | 28 Apr 2025 14:00 | Need 4X | SY/MD | Dilution |
| 11 | Q1665-22 | IA-B2-4-3242025 | VL042425.D | 28 Apr 2025 14:34 | | SY/MD | Ok,M |
| 12 | Q1880-02 | EBR-P02-SL-IA02-2025 | VL042426.D | 28 Apr 2025 15:08 | | SY/MD | Ok,M |
| 13 | Q1880-03 | EBR-P08-SC-IA01-202 | VL042427.D | 28 Apr 2025 15:42 | | SY/MD | Ok,M |
| 14 | Q1880-08 | EBR-P02-SC-IA01-202 | VL042428.D | 28 Apr 2025 16:16 | | SY/MD | Ok,M |
| 15 | Q1880-10 | EBR-P16-SC-AA01-202 | VL042429.D | 28 Apr 2025 16:50 | | SY/MD | Ok,M |
| 16 | Q1880-10DUP | EBR-P16-SC-AA01-202 | VL042430.D | 28 Apr 2025 17:26 | | SY/MD | Ok,M |
| 17 | Q1880-01 | EBR-P11-SC-SS01-202 | VL042431.D | 28 Apr 2025 18:00 | Need 20X | SY/MD | Dilution |
| 18 | Q1880-06 | EBR-P02-SC-DUP01-2 | VL042432.D | 28 Apr 2025 18:35 | | SY/MD | Ok,M |

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Fax : 908 789 8922

**Instrument ID:** MSVOA_L

## Daily Analysis Runlog For Sequence/QCBatch ID # VL042825

| | | | | | |
|---|---|---|---|---|---|
| Review By | Semsettin Yesilyurt | Review On | 4/30/2025 2:24:11 PM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 4/30/2025 2:30:41 PM | | |
| SubDirectory | VL042825 | HP Acquire Method | TO15AIR.M | HP Processing Method | VL041725AIR.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | AP2602 |
| Initial Calibration Stds | AP2598,AP2599,AP2600 |
| CCC | AP2598 |
| Internal Standard/PEM | AP2602 |
| ICV/I.BLK | AP2601 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q1880-09 | EBR-P16-SC-AA-DUP- | VL042433.D | 28 Apr 2025 19:08 | | SY/MD | Ok,M |
| 20 | Q1880-04 | EBR-P08-SC-SS01-202 | VL042434.D | 28 Apr 2025 19:41 | rerun straight | SY/MD | Not Ok |

M : Manual Integration

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**Instrument ID:** MSVOA_L

## Daily Analysis Runlog For Sequence/QCBatch ID # VL042925

| | | | | | |
|---|---|---|---|---|---|
| Review By | Semsettin Yesilyurt | Review On | 4/30/2025 2:23:53 PM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 4/30/2025 2:28:33 PM | | |
| SubDirectory | VL042925 | HP Acquire Method | TO15AIR.M | HP Processing Method | VL041725AIR.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | AP2602 |
| Initial Calibration Stds | AP2598,AP2599,AP2600 |
| CCC | AP2598 |
| Internal Standard/PEM | AP2602 |
| ICV/I.BLK | AP2601 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VL042435.D | 29 Apr 2025 07:55 | | SY/MD | Ok |
| 2 | VSTDCCC010 | VSTDCCC010 | VL042436.D | 29 Apr 2025 08:39 | | SY/MD | Ok,M |
| 3 | VL0429ABL01 | VL0429ABL01 | VL042437.D | 29 Apr 2025 09:25 | | SY/MD | Ok |
| 4 | VL0429ABS01 | VL0429ABS01 | VL042438.D | 29 Apr 2025 10:08 | | SY/MD | Ok,M |
| 5 | Q1880-04 | EBR-P08-SC-SS01-202 | VL042439.D | 29 Apr 2025 10:59 | | SY/MD | Ok,M |
| 6 | Q1880-05DL | EBR-SC-SS-DUP01-20 | VL042440.D | 29 Apr 2025 11:30 | Need Straight Run | SY/MD | Not Ok |
| 7 | Q1880-07DL | EBR-P16-SC-SS01-202 | VL042441.D | 29 Apr 2025 12:02 | | SY/MD | Ok,M |
| 8 | Q1880-11DL | EBR-P02-SC-SS01-202 | VL042442.D | 29 Apr 2025 12:33 | Need Straight Run | SY/MD | Not Ok |
| 9 | Q1908-01 | B-1 | VL042443.D | 29 Apr 2025 13:11 | | SY/MD | Ok,M |
| 10 | Q1908-02 | B-2 | VL042444.D | 29 Apr 2025 13:45 | rerun confirmation,4X | SY/MD | Not Ok |
| 11 | Q1908-03 | B-3 | VL042445.D | 29 Apr 2025 14:19 | | SY/MD | Ok,M |
| 12 | Q1908-03DL | B-3DL | VL042446.D | 29 Apr 2025 14:51 | Not Required | SY/MD | Not Ok |
| 13 | Q1880-05 | EBR-SC-SS-DUP01-20 | VL042447.D | 29 Apr 2025 15:24 | | SY/MD | Ok,M |
| 14 | Q1880-07 | EBR-P16-SC-SS01-202 | VL042448.D | 29 Apr 2025 15:58 | Need 10X | SY/MD | Dilution |
| 15 | Q1880-11 | EBR-P02-SC-SS01-202 | VL042449.D | 29 Apr 2025 16:32 | | SY/MD | Ok,M |
| 16 | Q1880-01DL | EBR-P11-SC-SS01-202 | VL042450.D | 29 Apr 2025 17:04 | | SY/MD | Ok |
| 17 | Q1665-07DL | IA-DUP-1-3242025DL | VL042451.D | 29 Apr 2025 17:37 | | SY/MD | Ok,M |
| 18 | Q1665-19DL | IA-B2-2-3242025DL | VL042452.D | 29 Apr 2025 18:09 | | SY/MD | Ok,M |

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**Instrument ID:** MSVOA_L

## Daily Analysis Runlog For Sequence/QCBatch ID # VL042925

| | | | | | |
|---|---|---|---|---|---|
| Review By | Semsettin Yesilyurt | Review On | 4/30/2025 2:23:53 PM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 4/30/2025 2:28:33 PM | | |
| SubDirectory | VL042925 | HP Acquire Method | TO15AIR.M | HP Processing Method | VL041725AIR.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | AP2602 |
| Initial Calibration Stds | AP2598,AP2599,AP2600 |
| CCC | AP2598 |
| Internal Standard/PEM | AP2602 |
| ICV/I.BLK | AP2601 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q1665-21DL | IA-B2-1-3242025DL | VL042453.D | 29 Apr 2025 18:42 | | SY/MD | Ok,M |
| 20 | Q1908-01DUP | B-1DUP | VL042454.D | 29 Apr 2025 19:57 | | SY/MD | Ok,M |
| 21 | Q1908-02DL | B-2DL | VL042455.D | 29 Apr 2025 20:30 | not required ,not match | SY/MD | Not Ok |
| 22 | Q1908-02 | B-2 | VL042456.D | 29 Apr 2025 21:58 | | SY/MD | Ok,M |

M : Manual Integration

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# Prep Standard - Chemical Standard Summary

**Order ID :** Q1665

**Test :** TO-15

**Prepbatch ID :**

**Sequence ID/Qc Batch ID:** vl040925,VL041125,vl041525,vl041725,vl042825,vl042925,

**Standard ID :**
AP2590,AP2591,AP2593,AP2594,AP2595,AP2596,AP2598,AP2599,AP2600,AP2601,AP2602,

**Chemical ID :**
A1117,A1135,A1136,A1137,

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Fax : 908 789 8922

# Air STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 47 | Internal Standard/Surrogate Mix-80 ppbv | AP2590 | 03/21/2025 | 04/21/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 04/03/2025 |

**FROM** 2.40000psi of A1135 + 27.60000psi of A1117 = Final Quantity: 30.000 psi

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 47 | Internal Standard/Surrogate Mix-80 ppbv | AP2591 | 03/21/2025 | 04/21/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 04/03/2025 |

**FROM** 2.40000psi of A1135 + 27.60000psi of A1117 = Final Quantity: 30.000 psi

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# Air STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 2396 | TO-15 15 PPBV CAL MIX | AP2593 | 03/21/2025 | 04/21/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 04/03/2025 |

**FROM** 1455.00000SCCM of A1117 + 45.00000SCCM of A1136 = Final Quantity: 30.000 psi

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 2396 | TO-15 15 PPBV CAL MIX | AP2594 | 03/21/2025 | 04/21/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 04/03/2025 |

**FROM** 1455.00000SCCM of A1117 + 45.00000SCCM of A1137 = Final Quantity: 30.000 psi

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# Air STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 2397 | TO-15 -2 PPBV CAL.MIX | AP2595 | 03/25/2025 | 04/21/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 04/03/2025 |

**FROM** 26.00000psi of A1117 + 4.00000psi of AP2593 = Final Quantity: 30.000 psi

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 2668 | 0.5 PPBV CAL.MIX | AP2596 | 03/25/2025 | 04/21/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 04/03/2025 |

**FROM** 29.00000psi of A1117 + 1.00000psi of AP2593 = Final Quantity: 30.000 psi

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Fax : 908 789 8922

# Air STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 2396 | TO-15 15 PPBV CAL MIX | AP2598 | 04/16/2025 | 05/17/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 04/18/2025 |

**FROM** 1455.00000SCCM of A1117 + 45.00000SCCM of A1136 = Final Quantity: 30.000 psi

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 2397 | TO-15 -2 PPBV CAL.MIX | AP2599 | 04/16/2025 | 05/17/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 04/18/2025 |

**FROM** 26.00000psi of A1117 + 4.00000psi of AP2598 = Final Quantity: 30.000 psi

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# Air STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 2668 | 0.5 PPBV CAL.MIX | AP2600 | 04/16/2025 | 05/17/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 04/18/2025 |

**FROM** 29.00000psi of A1117 + 1.00000psi of AP2598 = Final Quantity: 30.000 psi

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 2396 | TO-15 15 PPBV CAL MIX | AP2601 | 04/16/2025 | 05/17/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 04/18/2025 |

**FROM** 1455.00000SCCM of A1117 + 45.00000SCCM of A1137 = Final Quantity: 30.000 psi

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Fax : 908 789 8922

# Air STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 47 | Internal Standard/Surrogate Mix-80 ppbv | AP2602 | 04/18/2025 | 05/18/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 04/22/2025 |

**FROM** 2.40000psi of A1135 + 27.60000psi of A1117 = Final Quantity: 30.000 psi

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Fax : 908 789 8922

# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| AIR LIQUIDE | 365A-49 / AIR, Compressed | 90402401186-01 | 04/01/2026 | 04/01/2022 / apatel | 04/01/2022 / SAM | A1117 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| CUSTOMGAS Solutions | TB500009-110 / TO-15 Internal Standard/Surrogate Standard | BC275465 | 07/16/2025 | 07/22/2024 / SAM | 07/22/2024 / SAM | A1135 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| CUSTOMGAS Solutions | TO15-80-6R-07092 / TO-15 Modified (80 comp) in Nitrogen (addition of 2-methylnaphthalene) | 040424-003A | 07/16/2025 | 07/25/2024 / SAM | 07/22/2024 / SAM | A1136 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| CUSTOMGAS Solutions | TO15-80-6R-07092 / TO-15 Modified (80 comp) in Nitrogen (addition of 2-methylnaphthalene) | 040424-003B | 07/16/2025 | 07/25/2024 / SAM | 07/22/2024 / SAM | A1137 |

CUSTOMGAS
SOLUTIONS

1750 East Club Boulevard
Durham, NC 27704
Phone: (919) 220-2570
Fax: (919) 220-4540

# Certificate of Analysis

## Customer:

Chem Tech
284 Sheffield Street
Mountainside, NJ 07092

Tel: (908) 789-8900

Cylinder Number: BC275465
Cylinder Size/CGA: 170/180SS
Fill Pressure: 1815 PSIA
Gas Volume: ~170 liters
Date of Mfg: 07/16/2024
Expiration Date: 07/16/2025

Ship To : Chem Tech
284 Sheffield Street
Mountainside, NJ 07092

| Customer Number | Ship VIA | Job No. | Customer PO | Mixture Type |
|---|---|---|---|---|
| 00107092NJ | Best Way | 040424-003 | 240404-10 | Gravimetric |

| Component | Nominal Concentration | Actual Concentration* | Mixture Type |
|---|---|---|---|
| Bromochloromethane | 1 ppm | 1.014 ppm +/- 0.02 ppm | Gravimetric Master Gas |
| 4-Bromofluorobenzene | 1 ppm | 1.008 ppm +/- 0.02 ppm | |
| Chlorobenzene-D5 | 1 ppm | 0.993 ppm +/- 0.02 ppm | |
| 1,4-Difluorbenzene | 1 ppm | 0.979 ppm +/- 0.02 ppm | |
| Nitrogen | balance | balance | |
| | | | |
| | | | |
| | | | |

**NOTES:**

**Blend Tolerance:** +/- 10 %

**Analytical Tolerance:** +/- 5 %

**Traceability:** NIST by weight set. NIST Traceability No MT001810.
Internal Standards by analysis

**Reactive Mixtures:** Analyzed twice with required agreement between analyses of 2%.
Required wait time between analyses of >7 days.

**Caution:** Do not use below 150 PSIG.

**Analyst Name:** Joseph A. Ernst

**Signature:**

**QA Signature:**

**Date:** 07/16/2024

*Every effort has been made to establish the actual concentration of the components using master gas blending technology however, Custom Gas Solutions shall have no liability in excess of the established charge for this material.

CUSTOMGAS
SOLUTIONS

1750 East Club Boulevard
Durham, NC 27704
Phone: (919) 220-2570
Fax: (919) 220-4540

# Certificate of Analysis

## Customer:

ChemTech
284 Sheffield Street
Mountianside, NJ 07092

Cylinder Number: BC917782
Cylinder Size/CGA: 170/180
Fill Pressure: 1815 PSIA
Gas Volume: 110 liters
Date of Mfg: 07/16/2024
Expiration Date: 07/16/2025
Lot Number: 040424-003A

Ship To : Chemtech
284 Sheffield Street
Mountainside, NJ 07092

| Customer Number | Ship VIA | Job No. | Customer PO | Mixture Type |
|---|---|---|---|---|
| 00107092NJ | Best Way | 040424-003 | 240404-10 | Gravimetric |

| Component | Nominal Concentration | Actual Concentration* | Mixture Type |
|---|---|---|---|
| Acetone | 500 ppb | 517 ppb +/- 50 ppb | Gravimetric Master Gas |
| Acetonitrile | 500 ppb | 534 ppb +/- 50 ppb | |
| Acrolein | 500 ppb | 545 ppb +/- 50 ppb | |
| Acrylonitrile | 500 ppb | 539 ppb +/- 50 ppb | |
| Allyl chloride | 500 ppb | 509 ppb +/- 50 ppb | |
| Benzene | 500 ppb | 483 ppb +/- 50 ppb | |
| Benzyl Chloride | 500 ppb | 489 ppb +/- 50 ppb | |
| Bromodichloromethane | 500 ppb | 509 ppb +/- 50 ppb | |
| Bromoform | 500 ppb | 495 ppb +/- 50 ppb | |
| 1,3-Butadiene | 500 ppb | 504 ppb +/- 50 ppb | |
| tert-Butyl alcohol | 500 ppb | 532 ppb +/- 50 ppb | |
| n-Butyl benzene | 500 ppb | 529 ppb +/- 50 ppb | |
| sec-Butyl benzene | 500 ppb | 529 ppb +/- 50 ppb | |
| tert-Butyl benzene | 500 ppb | 529 ppb +/- 50 ppb | |
| Carbon disulfide | 500 ppb | 485 ppb +/- 50 ppb | |
| Carbon tetrachloride | 500 ppb | 506 ppb +/- 50 ppb | |
| Chlorobenzene | 500 ppb | 491 ppb +/- 50 ppb | |
| Chlorodibromomethane | 500 ppb | 488 ppb +/- 50 ppb | |
| Chloroform | 500 ppb | 492 ppb +/- 50 ppb | |
| 2-Chlorotoluene | 500 ppb | 532 ppb +/- 50 ppb | |
| Cyclohexane | 500 ppb | 482 ppb +/- 50 ppb | |
| 1,2-Dibromoethane | 500 ppb | 491 ppb +/- 50 ppb | |
| 1,2-Dichlorobenzene | 500 ppb | 510 ppb +/- 50 ppb | |
| 1,3-Dichlorobenzene | 500 ppb | 489 ppb +/- 50 ppb | |
| 1,4-Dichlorobenzene | 500 ppb | 490 ppb +/- 50 ppb | |
| Dichlorodifluoromethane (R12) | 500 ppb | 508 ppb +/- 50 ppb | |

| | | | |
|---|---|---|---|
| 1,1-Dichloroethane | 500 ppb | 492 ppb +/- 50 ppb | |
| 1,2-Dichloroethane | 500 ppb | 497 ppb +/- 50 ppb | |
| 1,1-Dichlororethylene | 500 ppb | 493 ppb +/- 50 ppb | |
| cis 1,2-Dichloroethylene | 500 ppb | 488 ppb +/- 50 ppb | |
| trans 1,2-Dichloroethylene | 500 ppb | 488 ppb +/- 50 ppb | |
| 1,2-Dichloropropane | 500 ppb | 490 ppb +/- 50 ppb | |
| cis 1,3-Dichloropropylene | 500 ppb | 516 ppb +/- 50 ppb | |
| trans 1,3-Dichloropropylene | 500 ppb | 466 ppb +/- 50 ppb | |
| 1,2-Dichlorotetrafluoroethane | 500 ppb | 505 ppb +/- 50 ppb | |
| 1,4-Dioxane | 500 ppb | 484 ppb +/- 50 ppb | |
| Ethyl acetate | 500 ppb | 486 ppb +/- 50 ppb | |
| Ethyl Alcohol | 500 ppb | 555 ppb +/- 50 ppb | |
| Ethyl benzene | 500 ppb | 497 ppb +/- 50 ppb | |
| Ethyl Chloride | 500 ppb | 506 ppb +/- 50 ppb | |
| 4-Ethyltoluene | 500 ppb | 485 ppb +/- 50 ppb | |
| n-Heptane | 500 ppb | 487 ppb +/- 50 ppb | |
| Hexachloro-1,3-butadiene | 500 ppb | 489 ppb +/- 50 ppb | |
| 2-Hexanone | 500 ppb | 490 ppb +/- 50 ppb | |
| n-Hexane | 500 ppb | 485 ppb +/- 50 ppb | |
| Isopropyl alcohol | 500 ppb | 511 ppb +/- 50 ppb | |
| Isopropyl benzene | 500 ppb | 527 ppb +/- 50 ppb | |
| p-Isopropyl toluene | 500 ppb | 534 ppb +/- 50 ppb | |
| Methyl Bromide | 500 ppb | 505 ppb +/- 50 ppb | |
| Methyl Chloride | 500 ppb | 509 ppb +/- 50 ppb | |
| Methyl ethyl ketone | 500 ppb | 496 ppb +/- 50 ppb | |
| Methyl isobutyl ketone | 500 ppb | 493 ppb +/- 50 ppb | |
| Methyl methacrylate | 500 ppb | 532 ppb +/- 50 ppb | |
| Methyl tertiary butyl ether | 500 ppb | 483 ppb +/- 50 ppb | |
| Methylene chloride | 500 ppb | 498 ppb +/- 50 ppb | |
| Naphthalene | 500 ppb | 542 ppb +/- 50 ppb | |
| n-Propylbenzene | 500 ppb | 529 ppb +/- 50 ppb | |
| Propylene | 500 ppb | 508 ppb +/- 50 ppb | |
| Styrene | 500 ppb | 485 ppb +/- 50 ppb | |
| 1,1,1,2-Tetrachloroethane | 500 ppb | 483 ppb +/- 50 ppb | |
| 1,1,2,2-Tetrachloroethane | 500 ppb | 534 ppb +/- 50 ppb | |
| Tetrachloroethylene | 500 ppb | 487 ppb +/- 50 ppb | |
| Tetrahydrofuran | 500 ppb | 535 ppb +/- 50 ppb | |
| Toluene | 500 ppb | 491 ppb +/- 50 ppb | |
| 1,2,4-Trichlorobenzene | 500 ppb | 494 ppb +/- 50 ppb | |
| 1,1,1-Trichloroethane | 500 ppb | 494 ppb +/- 50 ppb | |
| 1,1,2-Trichloroethane | 500 ppb | 494 ppb +/- 50 ppb | |
| Trichloroethylene | 500 ppb | 488 ppb +/- 50 ppb | |
| Trichlorofluoromethane | 500 ppb | 508 ppb +/- 50 ppb | |
| 1,1,2-Trichlorotrifluoroethane | 500 ppb | 495 ppb +/- 50 ppb | |
| 1,2,4-Trimethylbenzene | 500 ppb | 494 ppb +/- 50 ppb | |
| 1,3,5-Trimethylbenzene | 500 ppb | 498 ppb +/- 50 ppb | |
| 2,2,4- Trimethylpentane | 500 ppb | 489 ppb +/- 50 ppb | |
| Vinyl acetate | 500 ppb | 499 ppb +/- 50 ppb | |
| Vinyl bromide | 500 ppb | 505 ppb +/- 50 ppb | |
| Vinyl chloride | 500 ppb | 507 ppb +/- 50 ppb | |
| m-Xylene | 500 ppb | 492 ppb +/- 50 ppb | |
| o-Xylene | 500 ppb | 480 ppb +/- 50 ppb | |
| p-Xylene | 500 ppb | 486 ppb +/- 50 ppb | |
| 2-Methyl Naphthalene | 500 ppb | 498 ppb +/- 50 ppb | |
| R-22 | 500 ppb | 590 ppb +/- 50 ppb | |
| Nitrogen | balance | balance | |
| | | | |
| | | | |

| | | |
|---|---|---|
| **NOTES:** | **Blend Tolerance:** | +/- 20 % |
| | **Analytical Tolerance:** | +/- 10 % |
| | **Traceability:** | NIST by weight set. NIST Traceability No MT001810.<br>Internal Standards by analysis |
| | **Reactive Mixtures:** | Analyzed twice with required agreement between analyses of 2%.<br>Required wait time between analyses of >7 days. |
| | **Caution:** | Do not use below 150 PSIG. |

**Analyst Name: Joseph A. Ernst**

**QA Signature:**

**Signature:**

**Date: 07/16/2024**

*Every effort has been made to establish the actual concentration of the components using master gas blending technology however, Custom Gas Solutions shall have no liability in excess of the established charge for this material.

CUSTOMGAS
SOLUTIONS

1750 East Club Boulevard
Durham, NC 27704
Phone: (919) 220-2570
Fax: (919) 220-4540

# Certificate of Analysis

## Customer:

ChemTech
284 Sheffield Street
Mountianside, NJ 07092

Cylinder Number: BC169552
Cylinder Size/CGA: 170/180
Fill Pressure: 1815 PSIA
Gas Volume: 110 liters
Date of Mfg: 07/16/2024
Expiration Date: 07/16/2025
Lot Number: 040424-003B

Ship To : Chemtech
284 Sheffield Street
Mountainside, NJ 07092

| Customer Number | Ship VIA | Job No. | Customer PO | Mixture Type |
|---|---|---|---|---|
| 00107092NJ | Best Way | 040424-003 | 240404-10 | Gravimetric |

| Component | Nominal Concentration | Actual Concentration* | Mixture Type |
|---|---|---|---|
| Acetone | 500 ppb | 502 ppb +/- 50 ppb | Gravimetric Master Gas |
| Acetonitrile | 500 ppb | 530 ppb +/- 50 ppb | |
| Acrolein | 500 ppb | 540 ppb +/- 50 ppb | |
| Acrylonitrile | 500 ppb | 535 ppb +/- 50 ppb | |
| Allyl chloride | 500 ppb | 494 ppb +/- 50 ppb | |
| Benzene | 500 ppb | 470 ppb +/- 50 ppb | |
| Benzyl Chloride | 500 ppb | 476 ppb +/- 50 ppb | |
| Bromodichloromethane | 500 ppb | 495 ppb +/- 50 ppb | |
| Bromoform | 500 ppb | 481 ppb +/- 50 ppb | |
| 1,3-Butadiene | 500 ppb | 490 ppb +/- 50 ppb | |
| tert-Butyl alcohol | 500 ppb | 527 ppb +/- 50 ppb | |
| n-Butyl benzene | 500 ppb | 525 ppb +/- 50 ppb | |
| sec-Butyl benzene | 500 ppb | 525 ppb +/- 50 ppb | |
| tert-Butyl benzene | 500 ppb | 525 ppb +/- 50 ppb | |
| Carbon disulfide | 500 ppb | 471 ppb +/- 50 ppb | |
| Carbon tetrachloride | 500 ppb | 492 ppb +/- 50 ppb | |
| Chlorobenzene | 500 ppb | 478 ppb +/- 50 ppb | |
| Chlorodibromomethane | 500 ppb | 474 ppb +/- 50 ppb | |
| Chloroform | 500 ppb | 478 ppb +/- 50 ppb | |
| 2-Chlorotoluene | 500 ppb | 527 ppb +/- 50 ppb | |
| Cyclohexane | 500 ppb | 469 ppb +/- 50 ppb | |
| 1,2-Dibromoethane | 500 ppb | 477 ppb +/- 50 ppb | |
| 1,2-Dichlorobenzene | 500 ppb | 495 ppb +/- 50 ppb | |
| 1,3-Dichlorobenzene | 500 ppb | 475 ppb +/- 50 ppb | |
| 1,4-Dichlorobenzene | 500 ppb | 476 ppb +/- 50 ppb | |
| Dichlorodifluoromethane (R12) | 500 ppb | 494 ppb +/- 50 ppb | |

| | | | |
|---|---|---|---|
| 1,1-Dichloroethane | 500 ppb | 478 ppb +/- 50 ppb | |
| 1,2-Dichloroethane | 500 ppb | 483 ppb +/- 50 ppb | |
| 1,1-Dichlororethylene | 500 ppb | 479 ppb +/- 50 ppb | |
| cis 1,2-Dichloroethylene | 500 ppb | 475 ppb +/- 50 ppb | |
| trans 1,2-Dichloroethylene | 500 ppb | 475 ppb +/- 50 ppb | |
| 1,2-Dichloropropane | 500 ppb | 476 ppb +/- 50 ppb | |
| cis 1,3-Dichloropropylene | 500 ppb | 501 ppb +/- 50 ppb | |
| trans 1,3-Dichloropropylene | 500 ppb | 466 ppb +/- 50 ppb | |
| 1,2-Dichlorotetrafluoroethane | 500 ppb | 491 ppb +/- 50 ppb | |
| 1,4-Dioxane | 500 ppb | 470 ppb +/- 50 ppb | |
| Ethyl acetate | 500 ppb | 472 ppb +/- 50 ppb | |
| Ethyl Alcohol | 500 ppb | 550 ppb +/- 50 ppb | |
| Ethyl benzene | 500 ppb | 483 ppb +/- 50 ppb | |
| Ethyl Chloride | 500 ppb | 492 ppb +/- 50 ppb | |
| 4-Ethyltoluene | 500 ppb | 472 ppb +/- 50 ppb | |
| n-Heptane | 500 ppb | 473 ppb +/- 50 ppb | |
| Hexachloro-1,3-butadiene | 500 ppb | 475 ppb +/- 50 ppb | |
| 2-Hexanone | 500 ppb | 477 ppb +/- 50 ppb | |
| n-Hexane | 500 ppb | 471 ppb +/- 50 ppb | |
| Isopropyl alcohol | 500 ppb | 497 ppb +/- 50 ppb | |
| Isopropyl benzene | 500 ppb | 522 ppb +/- 50 ppb | |
| p-Isopropyl toluene | 500 ppb | 530 ppb +/- 50 ppb | |
| Methyl Bromide | 500 ppb | 491 ppb +/- 50 ppb | |
| Methyl Chloride | 500 ppb | 494 ppb +/- 50 ppb | |
| Methyl ethyl ketone | 500 ppb | 482 ppb +/- 50 ppb | |
| Methyl isobutyl ketone | 500 ppb | 479 ppb +/- 50 ppb | |
| Methyl methacrylate | 500 ppb | 527 ppb +/- 50 ppb | |
| Methyl tertiary butyl ether | 500 ppb | 470 ppb +/- 50 ppb | |
| Methylene chloride | 500 ppb | 484 ppb +/- 50 ppb | |
| Naphthalene | 500 ppb | 537 ppb +/- 50 ppb | |
| n-Propylbenzene | 500 ppb | 525 ppb +/- 50 ppb | |
| Propylene | 500 ppb | 494 ppb +/- 50 ppb | |
| Styrene | 500 ppb | 472 ppb +/- 50 ppb | |
| 1,1,1,2-Tetrachloroethane | 500 ppb | 530 ppb +/- 50 ppb | |
| 1,1,2,2-Tetrachloroethane | 500 ppb | 470 ppb +/- 50 ppb | |
| Tetrachloroethylene | 500 ppb | 473 ppb +/- 50 ppb | |
| Tetrahydrofuran | 500 ppb | 520 ppb +/- 50 ppb | |
| Toluene | 500 ppb | 477 ppb +/- 50 ppb | |
| 1,2,4-Trichlorobenzene | 500 ppb | 480 ppb +/- 50 ppb | |
| 1,1,1-Trichloroethane | 500 ppb | 480 ppb +/- 50 ppb | |
| 1,1,2-Trichloroethane | 500 ppb | 481 ppb +/- 50 ppb | |
| Trichloroethylene | 500 ppb | 474 ppb +/- 50 ppb | |
| Trichlorofluoromethane | 500 ppb | 494 ppb +/- 50 ppb | |
| 1,1,2-Trichlorotrifluoroethane | 500 ppb | 481 ppb +/- 50 ppb | |
| 1,2,4-Trimethylbenzene | 500 ppb | 480 ppb +/- 50 ppb | |
| 1.3,5-Trimethylbenzene | 500 ppb | 484 ppb +/- 50 ppb | |
| 2,2,4- Trimethylpentane | 500 ppb | 475 ppb +/- 50 ppb | |
| Vinyl acetate | 500 ppb | 485 ppb +/- 50 ppb | |
| Vinyl bromide | 500 ppb | 491 ppb +/- 50 ppb | |
| Vinyl chloride | 500 ppb | 493 ppb +/- 50 ppb | |
| m-Xylene | 500 ppb | 479 ppb +/- 50 ppb | |
| o-Xylene | 500 ppb | 466 ppb +/- 50 ppb | |
| p-Xylene | 500 ppb | 473 ppb +/- 50 ppb | |
| 2-Methyl Naphthalene | 500 ppb | 497 ppb +/- 50 ppb | |
| R-22 | 500 ppb | 589 ppb +/- 50 ppb | |
| Nitrogen | balance | balance | |
| | | | |
| | | | |

| | | |
|---|---|---|
| **NOTES:** | **Blend Tolerance:** | +/- 20 % |
| | **Analytical Tolerance:** | +/- 10 % |
| | **Traceability:** | NIST by weight set. NIST Traceability No MT001810.<br>Internal Standards by analysis |
| | **Reactive Mixtures:** | Analyzed twice with required agreement between analyses of 2%.<br>Required wait time between analyses of >7 days. |
| | **Caution:** | Do not use below 150 PSIG. |

**Analyst Name: Joseph A. Ernst**

**QA Signature:**

**Signature:**

**Date: 07/16/2024**

*Every effort has been made to establish the actual concentration of the components using master gas blending technology however, Custom Gas Solutions shall have no liability in excess of the established charge for this material.

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

# Process Report

**Order ID :** Q1665

| Date | Bottle ID | Lab Sample Number | InComing Vacuum | Canister ID | Can Size | Reg ID | Reg Size | Batch Code | Certification ID |
|---|---|---|---|---|---|---|---|---|---|
| 03/31/2025 | B2502051 | Q1665-17 | -6.7 | 10294 | 6 L | 10505 | | C2502003 | **VL042078.D**<br>Seq :VL030325<br>TUNE : VL042074.D<br>ICAL : VL042046.D<br>CCAL : VL042075.D<br>MB : VL042076.D |
| 03/31/2025 | B2502051 | Q1665-05 | -8.0 | 10281 | 6 L | 10552 | | C2502002 | **VL042052.D**<br>Seq :vl022625<br>TUNE : VL042049.D<br>ICAL : VL042046.D<br>CCAL : VL042050.D<br>MB : VL042051.D |
| 03/31/2025 | B2502051 | Q1665-14 | -7.1 | 10275 | 6 L | 10482 | | C2502003 | **VL042078.D**<br>Seq :VL030325<br>TUNE : VL042074.D<br>ICAL : VL042046.D<br>CCAL : VL042075.D<br>MB : VL042076.D |
| 03/31/2025 | B2502051 | Q1665-12 | -13.7 | 10271 | 6 L | 10222 | | C2502002 | **VL042052.D**<br>Seq :vl022625<br>TUNE : VL042049.D<br>ICAL : VL042046.D<br>CCAL : VL042050.D<br>MB : VL042051.D |
| 03/31/2025 | B2502051 | Q1665-04 | -7.1 | 10268 | 6 L | 10101 | | C2501003 | **VL041954.D**<br>Seq :VL012725<br>TUNE : VL041943.D<br>ICAL : VL041894.D<br>CCAL : VL041944.D<br>MB : VL041946.D |
| 03/31/2025 | B2502051 | Q1665-15 | -6.3 | 10266 | 6 L | 10696 | | C2503003 | VL042145.D<br>Seq VL031425<br>Tune VL042140.D<br>ICAL VL042041.D<br>CCAL VL042141.D<br>MB VL042142.D |
| 03/31/2025 | B2502051 | Q1665-06 | -12.0 | 10198 | 6 L | 10204 | | C2502002 | **VL042052.D**<br>Seq :vl022625<br>TUNE : VL042049.D<br>ICAL : VL042046.D<br>CCAL : VL042050.D<br>MB : VL042051.D |

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# Process Report

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

**Order ID :** Q1665

| Date | Bottle ID | Lab Sample Number | InComing Vacuum | Canister ID | Can Size | Reg ID | Reg Size | Batch Code | Certification ID |
|---|---|---|---|---|---|---|---|---|---|
| 03/31/2025 | B2502051 | Q1665-19 | -8.0 | 10331 | 6 L | 10206 | | C2502003 | **VL042078.D**<br>Seq :VL030325<br>TUNE : VL042074.D<br>ICAL : VL042046.D<br>CCAL : VL042075.D<br>MB : VL042076.D |
| 03/31/2025 | B2502051 | Q1665-21 | -7.5 | 10332 | 6 L | 10236 | | C2502002 | **VL042052.D**<br>Seq :vl022625<br>TUNE : VL042049.D<br>ICAL : VL042046.D<br>CCAL : VL042050.D<br>MB : VL042051.D |
| 03/31/2025 | B2502051 | Q1665-16 | -8.0 | 10608 | 6 L | 10240 | | C2502001 | **VL041974.D**<br>Seq :vl020325<br>TUNE : VL041957.D<br>ICAL : VL041894.D<br>CCAL : VL041958.D<br>MB : VL041960.D |
| 03/31/2025 | B2502051 | Q1665-09 | -5.5 | 10599 | 6 L | 10207 | | C2502001 | **VL041974.D**<br>Seq :vl020325<br>TUNE : VL041957.D<br>ICAL : VL041894.D<br>CCAL : VL041958.D<br>MB : VL041960.D |
| 03/31/2025 | B2502051 | Q1665-11 | -6.3 | 10598 | 6 L | 10515 | | C2502001 | **VL041974.D**<br>Seq :vl020325<br>TUNE : VL041957.D<br>ICAL : VL041894.D<br>CCAL : VL041958.D<br>MB : VL041960.D |
| 03/31/2025 | B2502051 | Q1665-20 | -5.5 | 10595 | 6 L | 10626 | | C2502002 | **VL042052.D**<br>Seq :vl022625<br>TUNE : VL042049.D<br>ICAL : VL042046.D<br>CCAL : VL042050.D<br>MB : VL042051.D |

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# Process Report

**Order ID :** Q1665

| Date | Bottle ID | Lab Sample Number | InComing Vacuum | Canister ID | Can Size | Reg ID | Reg Size | Batch Code | Certification ID |
|---|---|---|---|---|---|---|---|---|---|
| 03/31/2025 | B2502051 | Q1665-07 | -6.7 | 10592 | 6 L | 10558 | | C2502002 | **VL042052.D**<br>Seq :vl022625<br>TUNE : VL042049.D<br>ICAL : VL042046.D<br>CCAL : VL042050.D<br>MB : VL042051.D |
| 03/31/2025 | B2502051 | Q1665-10 | -7.1 | 10492 | 6 L | 10172 | | C2503001 | **VL042143.D**<br>Seq :VL031425<br>TUNE : VL042140.D<br>ICAL : VL042046.D<br>CCAL : VL042141.D<br>MB : VL042142.D |
| 03/31/2025 | B2502051 | Q1665-02 | -3.5 | 10443 | 6 L | 10203 | | C2501001 | **VL041853.D**<br>Seq :vl010725<br>TUNE : VL041836.D<br>ICAL : VL041843.D<br>CCAL : VL041838.D<br>MB : VL041846.D |
| 03/31/2025 | B2502051 | Q1665-01 | -8.8 | 10323 | 6 L | 10478 | | C2502001 | **VL041974.D**<br>Seq :vl020325<br>TUNE : VL041957.D<br>ICAL : VL041894.D<br>CCAL : VL041958.D<br>MB : VL041960.D |
| 03/31/2025 | B2502051 | Q1665-13 | -1.8 | 10315 | 6 L | 10183 | | C2502003 | **VL042078.D**<br>Seq :VL030325<br>TUNE : VL042074.D<br>ICAL : VL042046.D<br>CCAL : VL042075.D<br>MB : VL042076.D |
| 03/31/2025 | B2502051 | Q1665-22 | -7.1 | 10306 | 6 L | 10713 | | C2502002 | **VL042052.D**<br>Seq :vl022625<br>TUNE : VL042049.D<br>ICAL : VL042046.D<br>CCAL : VL042050.D<br>MB : VL042051.D |
| 03/31/2025 | B2502051 | Q1665-18 | -8.0 | 10297 | 6 L | 10190 | | C2502001 | **VL041974.D**<br>Seq :vl020325<br>TUNE : VL041957.D<br>ICAL : VL041894.D<br>CCAL : VL041958.D<br>MB : VL041960.D |

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# Process Report

**Order ID :** Q1665

| Date | Bottle ID | Lab Sample Number | InComing Vacuum | Canister ID | Can Size | Reg ID | Reg Size | Batch Code | Certification ID |
|---|---|---|---|---|---|---|---|---|---|
| 03/31/2025 | B2502051 | Q1665-03 | -8.4 | 10154 | 6 L | 10476 | | C2502001 | **VL041974.D**<br>Seq :vl020325<br>TUNE : VL041957.D<br>ICAL : VL041894.D<br>CCAL : VL041958.D<br>MB : VL041960.D |
| 03/31/2025 | B2502051 | Q1665-08 | -7.5 | 10053 | 6 L | 10168 | | C2502001 | **VL041974.D**<br>Seq :vl020325<br>TUNE : VL041957.D<br>ICAL : VL041894.D<br>CCAL : VL041958.D<br>MB : VL041960.D |

# Canister Cleaning

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

**Canister Batch :** C2501003

**Type of Canister :** 6 L

**Cleaning Date :** 01/21/2025

**Analyst :** SAM

**Oven Temperature :** 125.0 c

| Canister | Vaccum After Cleaning ("Hg) | Vaccum After Cleaning Date | Analysis Date | VAC 24Hr ("Hg) | Vaccum After 24hr Date | New Sample Number | QC Canister | File |
|---|---|---|---|---|---|---|---|---|
| 10410 | -30 | 01/22/2025 | 01/27/2025 | -30 | 01/23/2025 | Q1533-03 | 10268 | VL041954.D |
| 10303 | -30 | 01/22/2025 | 01/27/2025 | -30 | 01/23/2025 | Q1532-01 | 10268 | VL041954.D |
| 10266 | -30 | 01/22/2025 | 01/27/2025 | -30 | 01/23/2025 | Q1533-04 | 10268 | VL041954.D |
| 10268 | -30 | 01/22/2025 | 01/27/2025 | -30 | 01/23/2025 | Q1665-04 | 10268 | VL041954.D |
| 10197 | -30 | 01/22/2025 | 01/27/2025 | -30 | 01/23/2025 | Q1483-06 | 10268 | VL041954.D |
| 10258 | -30 | 01/22/2025 | 01/27/2025 | -30 | 01/23/2025 | Q1649-01 | 10268 | VL041954.D |
| 10024 | -30 | 01/22/2025 | 01/27/2025 | -30 | 01/23/2025 | Q1483-05 | 10268 | VL041954.D |
| 10153 | -30 | 01/22/2025 | 01/27/2025 | -30 | 01/23/2025 | Q1533-05 | 10268 | VL041954.D |

# Canister Cleaning

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

**Canister Batch :** C2502001

**Type of Canister :** 6 L

**Cleaning Date :** 02/03/2025

**Analyst :** SAM

**Oven Temperature :** 125.0 c

| Canister | Vaccum After Cleaning ("Hg) | Vaccum After Cleaning Date | Analysis Date | VAC 24Hr ("Hg) | Vaccum After 24hr Date | New Sample Number | QC Canister | File |
|---|---|---|---|---|---|---|---|---|
| 10323 | -30 | 02/04/2025 | 02/04/2025 | -30 | 02/05/2025 | Q1665-01 | 10599 | VL041974.D |
| 10607 | -30 | 02/04/2025 | 02/04/2025 | -30 | 02/05/2025 | Q1669-05 | 10599 | VL041974.D |
| 10599 | -30 | 02/04/2025 | 02/04/2025 | -30 | 02/05/2025 | Q1665-09 | 10599 | VL041974.D |
| 10053 | -30 | 02/04/2025 | 02/04/2025 | -30 | 02/05/2025 | Q1665-08 | 10599 | VL041974.D |
| 10598 | -30 | 02/04/2025 | 02/04/2025 | -30 | 02/05/2025 | Q1665-11 | 10599 | VL041974.D |
| 10154 | -30 | 02/04/2025 | 02/04/2025 | -30 | 02/05/2025 | Q1665-03 | 10599 | VL041974.D |
| 10297 | -30 | 02/04/2025 | 02/04/2025 | -30 | 02/05/2025 | Q1665-18 | 10599 | VL041974.D |
| 10608 | -30 | 02/04/2025 | 02/04/2025 | -30 | 02/05/2025 | Q1665-16 | 10599 | VL041974.D |

# Canister Cleaning

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

**Canister Batch :** C2502002

**Type of Canister :** 6 L

**Cleaning Date :** 02/17/2025

**Analyst :** SAM

**Oven Temperature :** 125.0 c

| Canister | Vaccum After Cleaning ("Hg) | Vaccum After Cleaning Date | Analysis Date | VAC 24Hr ("Hg) | Vaccum After 24hr Date | New Sample Number | QC Canister | File |
|---|---|---|---|---|---|---|---|---|
| 10281 | -30 | 02/18/2025 | 02/26/2025 | -30 | 02/19/2025 | Q1665-05 | 10271 | VL042052.D |
| 10592 | -30 | 02/18/2025 | 02/26/2025 | -30 | 02/19/2025 | Q1665-07 | 10271 | VL042052.D |
| 10306 | -30 | 02/18/2025 | 02/26/2025 | -30 | 02/19/2025 | Q1665-22 | 10271 | VL042052.D |
| 10595 | -30 | 02/18/2025 | 02/26/2025 | -30 | 02/19/2025 | Q1665-20 | 10271 | VL042052.D |
| 10198 | -30 | 02/18/2025 | 02/26/2025 | -30 | 02/19/2025 | Q1665-06 | 10271 | VL042052.D |
| 10332 | -30 | 02/18/2025 | 02/26/2025 | -30 | 02/19/2025 | Q1665-21 | 10271 | VL042052.D |
| 10269 | -30 | 02/18/2025 | 02/26/2025 | -30 | 02/19/2025 | Q1668-02 | 10271 | VL042052.D |
| 10271 | -30 | 02/18/2025 | 02/26/2025 | -30 | 02/19/2025 | Q1665-12 | 10271 | VL042052.D |

# Canister Cleaning

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

**Canister Batch :** C2502003

**Type of Canister :** 6 L

**Cleaning Date :** 02/27/2025

**Analyst :** SAM

**Oven Temperature :** 125.0 c

| Canister | Vaccum After Cleaning ("Hg) | Vaccum After Cleaning Date | Analysis Date | VAC 24Hr ("Hg) | Vaccum After 24hr Date | New Sample Number | QC Canister | File |
|---|---|---|---|---|---|---|---|---|
| 10311 | -30 | 02/28/2025 | 03/03/2025 | -30 | 03/03/2025 | Q1669-01 | 10331 | VL042078.D |
| 10315 | -30 | 02/28/2025 | 03/03/2025 | -30 | 03/03/2025 | Q1665-13 | 10331 | VL042078.D |
| 10275 | -30 | 02/28/2025 | 03/03/2025 | -30 | 03/03/2025 | Q1665-14 | 10331 | VL042078.D |
| 10285 | -30 | 02/28/2025 | 03/03/2025 | -30 | 03/03/2025 | Q1669-09 | 10331 | VL042078.D |
| 10331 | -30 | 02/28/2025 | 03/03/2025 | -30 | 03/03/2025 | Q1665-19 | 10331 | VL042078.D |
| 10283 | -30 | 02/28/2025 | 03/03/2025 | -30 | 03/03/2025 | Q1669-02 | 10331 | VL042078.D |
| 10294 | -30 | 02/28/2025 | 03/03/2025 | -30 | 03/03/2025 | Q1665-17 | 10331 | VL042078.D |

# Canister Cleaning

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

**Canister Batch :** C2503001

**Type of Canister :** 6 L

**Cleaning Date :** 03/10/2025

**Analyst :** SAM

**Oven Temperature :** 125.0 c

| Canister | Vaccum After Cleaning ("Hg) | Vaccum After Cleaning Date | Analysis Date | VAC 24Hr ("Hg) | Vaccum After 24hr Date | New Sample Number | QC Canister | File |
|---|---|---|---|---|---|---|---|---|
| 10445 | -30 | 03/11/2025 | 03/14/2025 | -30 | 03/12/2025 | Q1669-07 | 10267 | VL042143.D |
| 10267 | -30 | 03/11/2025 | 03/14/2025 | -30 | 03/12/2025 | Q1669-04 | 10267 | VL042143.D |
| 10492 | -30 | 03/11/2025 | 03/14/2025 | -30 | 03/12/2025 | Q1665-10 | 10267 | VL042143.D |
| 10606 | -30 | 03/11/2025 | 03/14/2025 | -30 | 03/12/2025 | Q1669-06 | 10267 | VL042143.D |
| 10280 | -30 | 03/11/2025 | 03/14/2025 | -30 | 03/12/2025 | Q1726-02 | 10267 | VL042143.D |
| 10597 | -30 | 03/11/2025 | 03/14/2025 | -30 | 03/12/2025 | Q1726-01 | 10267 | VL042143.D |
| 10320 | -30 | 03/11/2025 | 03/14/2025 | -30 | 03/12/2025 | Q1669-03 | 10267 | VL042143.D |
| 10060 | -30 | 03/11/2025 | 03/14/2025 | -30 | 03/12/2025 | Q1668-03 | 10267 | VL042143.D |

# Canister Cleaning

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

**Canister Batch :** C2503003

**Type of Canister :** 6 L

**Cleaning Date :** 03/13/2025

**Analyst :** SAM

**Oven Temperature :** 125.0 c

| Canister | Vaccum After Cleaning ("Hg) | Vaccum After Cleaning Date | Analysis Date | VAC 24Hr ("Hg) | Vaccum After 24hr Date | New Sample Number | QC Canister | File |
|---|---|---|---|---|---|---|---|---|
| 10153 | -30 | 03/14/2025 | 03/14/2025 | -30 | 03/17/2025 | Q1725-01 | 10266 | VL042145.D |
| 10321 | -30 | 03/14/2025 | 03/14/2025 | -30 | 03/17/2025 | Q1725-02 | 10266 | VL042145.D |
| 10329 | -30 | 03/14/2025 | 03/14/2025 | -30 | 03/17/2025 | Q1718-02 | 10266 | VL042145.D |
| 10266 | -30 | 03/14/2025 | 03/14/2025 | -30 | 03/17/2025 | Q1665-15 | 10266 | VL042145.D |
| 10054 | -30 | 03/14/2025 | 03/14/2025 | -30 | 03/17/2025 | Q1726-04 | 10266 | VL042145.D |
| 10303 | -30 | 03/14/2025 | 03/14/2025 | -30 | 03/17/2025 | Q1725-07 | 10266 | VL042145.D |
| 10296 | -30 | 03/14/2025 | 03/14/2025 | -30 | 03/17/2025 | Q1725-03 | 10266 | VL042145.D |
| 10279 | -30 | 03/14/2025 | 03/14/2025 | -30 | 03/17/2025 | Q1725-05 | 10266 | VL042145.D |

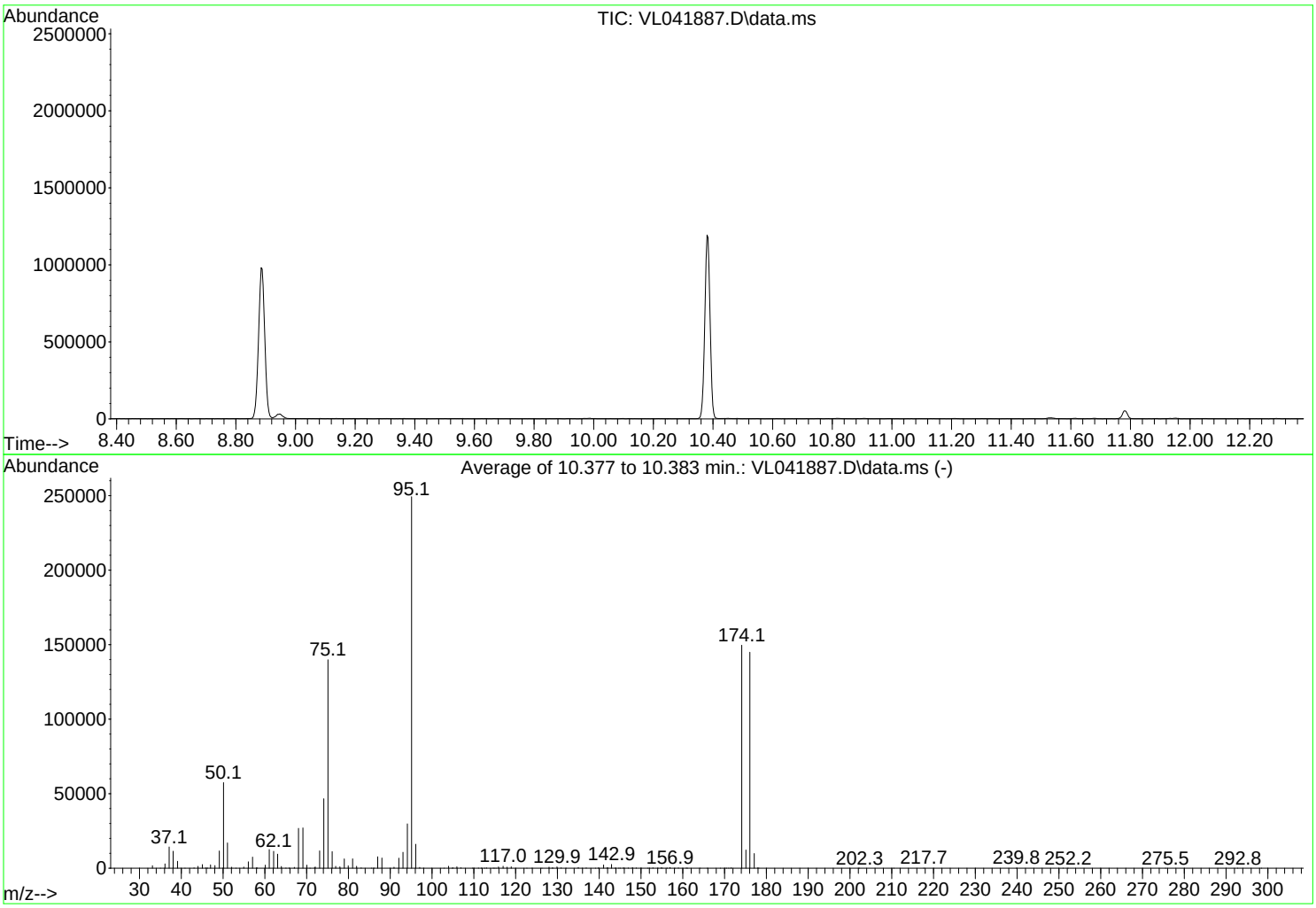
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041887.D
Acq On : 14 Jan 2025 07:50
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Tue Jan 14 23:15:42 2025




AutoFind: Scans 3179, 3180, 3181; Background Corrected with Scan 3165

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 8 | 40 | 23.0 | 57448 | PASS |
| 75 | 95 | 30 | 66 | 56.1 | 139893 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 249280 | PASS |
| 96 | 95 | 5 | 9 | 6.5 | 16102 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 120 | 60.0 | 149632 | PASS |
| 175 | 174 | 4 | 9 | 8.2 | 12223 | PASS |
| 176 | 174 | 93 | 101 | 96.8 | 144917 | PASS |
| 177 | 176 | 5 | 9 | 6.8 | 9838 | PASS |

Response Factor Report MSVOA_L

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL011425AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Tue Jan 14 23:15:42 2025
Response Via : Initial Calibration

Calibration Files
0.03=VL041894.D 0.1 =VL041893.D 0.5 =VL041892.D 1 =VL041891.D 2 =VL041890.D 10 =VL041889.D 15 =VL041895.D

| | | Compound | 0.03 | 0.1 | 0.5 | 1 | 2 | 10 | 15 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | Bromochloromethane | ----------ISTD---------- | | | | | | | | |
| 2) | T | Dichlorodifluo... | | | 1.450 | 1.406 | 1.359 | 1.300 | 1.295 | 1.362 | 4.93 |
| 3) | | Chlorodifluoro... | | | 1.448 | 1.547 | 1.466 | 1.330 | 1.343 | 1.427 | 6.34 |
| 4) | | Chloromethane | | | 0.546 | 0.499 | 0.525 | 0.492 | 0.499 | 0.512 | 4.41 |
| 5) | T | Vinyl Chloride | 0.504 | 0.578 | 0.561 | 0.531 | 0.502 | 0.466 | 0.491 | 0.519 | 7.62 |
| 6) | T | Bromomethane | | | 0.253 | 0.274 | 0.248 | 0.229 | 0.233 | 0.247 | 7.30 |
| 7) | | Chloroethane | | | 0.210 | 0.205 | 0.209 | 0.193 | 0.194 | 0.202 | 4.08 |
| 8) | T | Dichlorotetraf... | | | 1.282 | 1.198 | 1.225 | 1.095 | 1.151 | 1.190 | 5.99 |
| 9) | T | Propene | | | 0.642 | 0.577 | 0.605 | 0.568 | 0.548 | 0.588 | 6.21 |
| 10) | T | Heptane | | | 1.536 | 1.616 | 1.635 | 1.530 | 1.538 | 1.571 | 3.19 |
| 11) | T | Trichlorofluor... | | | 1.488 | 1.417 | 1.435 | 1.335 | 1.410 | 1.417 | 3.87 |
| 12) | T | 1,1,2-Trichlor... | | | 1.098 | 1.137 | 1.166 | 1.057 | 1.095 | 1.110 | 3.78 |
| 13) | | Ethanol | | | 0.065 | 0.043 | 0.051 | 0.027 | 0.029 | 0.043# | 36.98 |
| 14) | T | Bromoethene | | | 0.420 | 0.445 | 0.403 | 0.371 | 0.393 | 0.407 | 6.93 |
| 15) | T | Acetone | | | 1.405 | 1.301 | 1.256 | 0.991 | 1.051 | 1.201 | 14.50 |
| 16) | T | 1,3-Butadiene | | | 0.552 | 0.589 | 0.545 | 0.494 | 0.515 | 0.539 | 6.74 |
| 17) | | tert-Butyl alc... | | | 1.527 | 1.559 | 1.503 | 1.399 | 1.404 | 1.478 | 4.91 |
| 18) | T | 1,1-Dichloroet... | | | 0.520 | 0.517 | 0.514 | 0.458 | 0.492 | 0.501 | 5.18 |
| 19) | T | Isopropyl Alcohol | | | 0.864 | 0.731 | 0.714 | 0.621 | 0.631 | 0.712 | 13.77 |
| 20) | T | Methylene Chlo... | | | 0.586 | 0.503 | 0.478 | 0.390 | 0.416 | 0.475 | 16.27 |
| 21) | T | Allyl Chloride | | | 0.897 | 0.823 | 0.847 | 0.792 | 0.799 | 0.832 | 5.06 |
| 22) | T | trans-1,2-Dich... | | | 0.549 | 0.583 | 0.595 | 0.540 | 0.556 | 0.565 | 4.13 |
| 23) | T | Vinyl Acetate | | | 0.873 | 0.475 | 0.543 | 0.538 | 0.549 | 0.595 | 26.54 |
| 24) | T | 1,1-Dichloroet... | | | 1.165 | 1.099 | 1.100 | 1.016 | 1.083 | 1.093 | 4.84 |
| 25) | T | Ethyl Acetate | | | 3.219 | 3.352 | 3.399 | 3.094 | 3.131 | 3.239 | 4.13 |
| 26) | T | Hexane | | | 1.265 | 1.249 | 1.388 | 1.261 | 1.242 | 1.281 | 4.71 |
| 27) | T | Carbon Disulfide | | | 1.210 | 1.256 | 1.304 | 1.258 | 1.311 | 1.268 | 3.22 |
| 28) | T | Methyl tert-Bu... | | | 1.043 | 1.187 | 1.007 | 0.774 | 0.885 | 0.979 | 16.08 |
| 29) | T | Chloroform | | | 2.101 | 2.060 | 2.105 | 1.911 | 1.947 | 2.025 | 4.45 |
| 30) | T | Cyclohexane | | | 1.037 | 1.193 | 1.145 | 1.082 | 1.098 | 1.111 | 5.41 |
| 31) | T | cis-1,2-Dichlo... | | | 1.406 | 1.397 | 1.390 | 1.272 | 1.279 | 1.349 | 4.98 |
| 32) | T | 1,1,1-Trichlor... | 1.937 | 1.841 | 1.942 | 2.010 | 1.956 | 1.905 | 1.973 | 1.938 | 2.76 |
| 33) | I | 1,4-Difluorobenzene | ----------ISTD---------- | | | | | | | | |
| 34) | T | 2-Butanone | | | 0.649 | 0.646 | 0.679 | 0.602 | 0.605 | 0.636 | 5.13 |
| 35) | T | Carbon Tetrach... | 0.605 | 0.608 | 0.584 | 0.616 | 0.657 | 0.649 | 0.677 | 0.628 | 5.32 |
| 36) | T | Benzene | | | 0.926 | 0.949 | 0.949 | 0.882 | 0.879 | 0.917 | 3.78 |
| 37) | T | 1,2-Dichloroet... | | | 0.539 | 0.516 | 0.517 | 0.493 | 0.510 | 0.515 | 3.23 |
| 38) | T | Trichloroethene | 0.286 | 0.427 | 0.381 | 0.374 | 0.373 | 0.354 | 0.353 | 0.364 | 11.62 |
| 39) | T | 1,2-Dichloropr... | | | 0.349 | 0.321 | 0.329 | 0.305 | 0.304 | 0.322 | 5.81 |

Response Factor Report MSVOA_L

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL011425AIR.M

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 40) | T | 1,4-Dioxane | | 0.187 | 0.162 | 0.161 | 0.147 | 0.155 | 0.162 | 9.21 |
| 41) | T | Tetrahydrofuran | | 0.333 | 0.344 | 0.358 | 0.348 | 0.346 | 0.346 | 2.53 |
| 42) | T | Bromodichlorom... | | 0.700 | 0.659 | 0.703 | 0.684 | 0.707 | 0.691 | 2.84 |
| 43) | | Methyl Methacr... | | 0.340 | 0.336 | 0.349 | 0.338 | 0.341 | 0.341 | 1.41 |
| 44) | T | 2,2,4-Trimethy... | | 1.450 | 1.501 | 1.566 | 1.457 | 1.444 | 1.484 | 3.45 |
| 45) | T | t-1,3-Dichloro... | | 0.300 | 0.292 | 0.319 | 0.338 | 0.346 | 0.319 | 7.38 |
| 46) | T | cis-1,3-Dichlo... | | 0.371 | 0.391 | 0.439 | 0.446 | 0.447 | 0.419 | 8.43 |
| 47) | T | 1,1,2-Trichlor... | | 0.340 | 0.345 | 0.350 | 0.333 | 0.336 | 0.341 | 2.06 |
| 48) | T | Dibromochlorom... | | 0.490 | 0.489 | 0.541 | 0.545 | 0.566 | 0.526 | 6.64 |
| 49) | T | Bromoform | | 0.379 | 0.394 | 0.439 | 0.460 | 0.488 | 0.432 | 10.53 |
| 50) | T | 4-Methyl-2-Pen... | | 0.892 | 0.870 | 0.899 | 0.833 | 0.846 | 0.868 | 3.29 |
| 51) | T | 2-Hexanone | | 0.622 | 0.640 | 0.739 | 0.652 | 0.683 | 0.667 | 6.91 |
| 52) | T | Tetrachloroethene | 0.320 | 0.348 | 0.317 | 0.329 | 0.330 | 0.292 | 0.291 | 0.318 | 6.46 |
| 53) | T | Toluene | | 0.934 | 0.996 | 1.048 | 1.011 | 1.008 | 0.999 | 4.14 |
| 54) | T | 1,2-Dibromoethane | 0.440 | 0.488 | 0.468 | 0.494 | 0.454 | 0.470 | 0.469 | 4.32 |
| | | | | | | | | | | |
| 55) | I | Chlorobenzene-d5 | ----------ISTD---------- | | | | | | | |
| 56) | | 1,1,1,2-Tetrac... | | 0.502 | 0.514 | 0.510 | 0.481 | 0.488 | 0.499 | 2.86 |
| 57) | T | Chlorobenzene | | 0.986 | 0.968 | 0.977 | 0.848 | 0.832 | 0.922 | 8.18 |
| 58) | T | Ethyl Benzene | | 1.507 | 1.563 | 1.653 | 1.551 | 1.541 | 1.563 | 3.49 |
| 59) | T | m/p-Xylene | | 1.186 | 1.265 | 1.355 | 1.223 | 1.234 | 1.253 | 5.10 |
| 60) | T | o-Xylene | | 1.179 | 1.241 | 1.348 | 1.224 | 1.224 | 1.243 | 5.06 |
| 61) | T | Styrene | | 0.516 | 0.515 | 0.576 | 0.587 | 0.595 | 0.558 | 7.02 |
| 62) | | Isopropylbenzene | | 1.927 | 1.925 | 2.066 | 1.854 | 1.848 | 1.924 | 4.56 |
| 63) | T | 1,1,2,2-Tetrac... | 0.756 | 0.816 | 0.845 | 0.858 | 0.751 | 0.741 | 0.795 | 6.52 |
| 64) | | n-propylbenzene | | 0.481 | 0.495 | 0.521 | 0.469 | 0.464 | 0.486 | 4.78 |
| 65) | | tert-Butylbenzene | | 1.746 | 1.782 | 1.919 | 1.675 | 1.645 | 1.753 | 6.12 |
| 66) | T | Benzyl Chloride | | 0.102 | 0.093 | 0.113 | 0.115 | 0.119 | 0.109 | 9.71 |
| 67) | | sec-Butylbenzene | | 2.389 | 2.457 | 2.681 | 2.299 | 2.246 | 2.414 | 7.04 |
| 68) | S | 1-Bromo-4-Fluo... | 0.783 | 0.785 | 0.784 | 0.792 | 0.795 | 0.782 | 0.792 | 0.788 | 0.65 |
| 69) | | p-Isopropyltol... | | 1.852 | 2.013 | 2.256 | 1.927 | 1.892 | 1.988 | 8.11 |
| 70) | | n-Butylbenzene | | 1.867 | 2.048 | 2.206 | 1.898 | 1.840 | 1.972 | 7.80 |
| 71) | | 2-Chlorotoluene | | 1.394 | 1.410 | 1.537 | 1.389 | 1.385 | 1.423 | 4.54 |
| 72) | T | 4-Ethyltoluene | | 1.442 | 1.447 | 1.610 | 1.466 | 1.472 | 1.487 | 4.67 |
| 73) | T | 1,3,5-Trimethy... | | 1.222 | 1.360 | 1.448 | 1.263 | 1.275 | 1.313 | 6.88 |
| 74) | T | 1,2,4-Trimethy... | | 1.359 | 1.456 | 1.607 | 1.346 | 1.344 | 1.422 | 7.97 |
| 75) | T | 1,3-Dichlorobe... | | 0.881 | 0.884 | 0.903 | 0.776 | 0.771 | 0.843 | 7.61 |
| 76) | T | 1,4-Dichlorobe... | | 0.830 | 0.859 | 0.889 | 0.769 | 0.777 | 0.825 | 6.29 |
| 77) | T | 1,2-Dichlorobe... | | 0.863 | 0.902 | 0.909 | 0.757 | 0.745 | 0.835 | 9.43 |
| 78) | T | Hexachloro-1,3... | | 0.747 | 0.742 | 0.772 | 0.586 | 0.582 | 0.686 | 13.66 |
| 79) | T | Naphthalene | 0.978 | 1.479 | 1.682 | 1.941 | 1.255 | 1.259 | 1.432 | 24.01 |
| 80) | T | Naphthalene,2-... | | 0.572 | 0.724 | 1.151 | 0.463 | 0.485 | 0.679 | 41.70 |
| 81) | T | 1,2,4-Trichlor... | | 0.745 | 0.738 | 0.819 | 0.598 | 0.596 | 0.699 | 14.10 |

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041889.D
Acq On : 14 Jan 2025 12:55
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:20:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Bromochloromethane | 2.797 | 49 | 152325 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.975 | 114 | 449256 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.894 | 117 | 400269 | 10.000 | ppbv | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.390 | 95 | 313194 | 9.934 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 99.300% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.502 | 85 | 197959 | 9.541 | ppbv | 100 |
| 3) Chlorodifluoromethane | 1.479 | 51 | 202651 | 9.323 | ppbv | 100 |
| 4) Chloromethane | 1.538 | 50 | 74977 | 9.608 | ppbv | 100 |
| 5) Vinyl Chloride | 1.583 | 62 | 71006 | 8.984 | ppbv | 100 |
| 6) Bromomethane | 1.674 | 94 | 34817 | 9.243 | ppbv | 100 |
| 7) Chloroethane | 1.709 | 64 | 29349 | 9.544 | ppbv | 100 |
| 8) Dichlorotetrafluoroethane | 1.557 | 85 | 166754 | 9.196 | ppbv | 100 |
| 9) Propene | 1.486 | 41 | 86544 | 9.665 | ppbv | 100 |
| 10) Heptane | 5.001 | 43 | 233062 | 9.738 | ppbv | 100 |
| 11) Trichlorofluoromethane | 1.884 | 101 | 203374 | 9.423 | ppbv | 100 |
| 12) 1,1,2-Trichlorotrifluo... | 2.146 | 101 | 160993 | 9.517 | ppbv | 100 |
| 13) Ethanol | 1.725 | 45 | 4155 | 6.335 | ppbv | 98 |
| 14) Bromoethene | 1.787 | 108 | 56447 | 9.114 | ppbv | 100 |
| 15) Acetone | 1.842 | 43 | 151022 | 8.255 | ppbv | 100 |
| 16) 1,3-Butadiene | 1.612 | 39 | 75244 | 9.163 | ppbv | 100 |
| 17) tert-Butyl alcohol | 2.046 | 59 | 213109 | 9.464 | ppbv | 100 |
| 18) 1,1-Dichloroethene | 2.039 | 96 | 69825 | 9.158 | ppbv | 100 |
| 19) Isopropyl Alcohol | 1.890 | 45 | 94532 | 8.714 | ppbv | 100 |
| 20) Methylene Chloride | 2.068 | 84 | 59427 | 8.219 | ppbv | 100 |
| 21) Allyl Chloride | 2.101 | 41 | 120681 | 9.526 | ppbv | 100 |
| 22) trans-1,2-Dichloroethene | 2.347 | 96 | 82326 | 9.568 | ppbv | 100 |
| 23) Vinyl Acetate | 2.470 | 43 | 81885 | 10.281 | ppbv | 100 |
| 24) 1,1-Dichloroethane | 2.418 | 63 | 154838 | 9.303 | ppbv | 100 |
| 25) Ethyl Acetate | 2.845 | 43 | 471257 | 9.552 | ppbv | 100 |
| 26) Hexane | 2.835 | 57 | 192009 | 9.841 | ppbv | 100 |
| 27) Carbon Disulfide | 2.156 | 76 | 191567 | 9.921 | ppbv | 99 |
| 28) Methyl tert-Butyl Ether | 2.450 | 73 | 117898 | 7.905 | ppbv | 100 |
| 29) Chloroform | 2.858 | 83 | 291118 | 9.438 | ppbv | 100 |
| 30) Cyclohexane | 3.868 | 84 | 164788 | 9.737 | ppbv | 100 |
| 31) cis-1,2-Dichloroethene | 2.729 | 61 | 193774 | 9.432 | ppbv | 100 |
| 32) 1,1,1-Trichloroethane | 3.379 | 97 | 290126 | 9.830 | ppbv | 100 |
| 34) 2-Butanone | 2.567 | 43 | 270263 | 9.459 | ppbv | 100 |
| 35) Carbon Tetrachloride | 3.777 | 117 | 291448 | 10.309 | ppbv | 100 |
| 36) Benzene | 3.671 | 78 | 396344 | 9.619 | ppbv | 100 |
| 37) 1,2-Dichloroethane | 3.230 | 62 | 221352 | 9.565 | ppbv | 100 |
| 38) Trichloroethene | 4.564 | 130 | 159253 | 9.736 | ppbv | 100 |
| 39) 1,2-Dichloropropane | 4.331 | 63 | 137090 | 9.484 | ppbv | 100 |
| 40) 1,4-Dioxane | 4.606 | 88 | 66200 | 9.075 | ppbv # | 94 |
| 41) Tetrahydrofuran | 3.065 | 42 | 156141 | 10.023 | ppbv | 100 |
| 42) Bromodichloromethane | 4.509 | 83 | 307176 | 9.900 | ppbv | 100 |
| 43) Methyl Methacrylate | 4.897 | 69 | 152001 | 9.930 | ppbv | 100 |
| 44) 2,2,4-Trimethylpentane | 4.658 | 57 | 654395 | 9.819 | ppbv | 100 |
| 45) t-1,3-Dichloropropene | 6.435 | 75 | 151920 | 10.603 | ppbv | 100 |

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041889.D
Acq On : 14 Jan 2025 12:55
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:20:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 46) | cis-1,3-Dichloropropene | 5.622 | 75 | 200330 | 10.649 | ppbv | | 100 |
| 47) | 1,1,2-Trichloroethane | 6.600 | 97 | 149634 | 9.766 | ppbv | | 100 |
| 48) | Dibromochloromethane | 7.402 | 129 | 245066 | 10.368 | ppbv | | 100 |
| 49) | Bromoform | 9.496 | 173 | 206751 | 10.649 | ppbv | | 100 |
| 50) | 4-Methyl-2-Pentanone | 5.778 | 43 | 374267 | 9.615 | ppbv | | 100 |
| 51) | 2-Hexanone | 7.454 | 43 | 292941 | 9.775 | ppbv | # | 100 |
| 52) | Tetrachloroethene | 8.241 | 164 | 131334 | 9.193 | ppbv | | 100 |
| 53) | Toluene | 6.952 | 91 | 454085 | 10.116 | ppbv | | 100 |
| 54) | 1,2-Dibromoethane | 7.668 | 107 | 203859 | 9.679 | ppbv | | 100 |
| 56) | 1,1,1,2-Tetrachloroethane | 8.940 | 131 | 192449 | 9.637 | ppbv | | 99 |
| 57) | Chlorobenzene | 8.937 | 112 | 339570 | 9.197 | ppbv | | 100 |
| 58) | Ethyl Benzene | 9.367 | 91 | 620719 | 9.923 | ppbv | | 100 |
| 59) | m/p-Xylene | 9.564 | 91 | 979297m | 19.504 | ppbv | | |
| 60) | o-Xylene | 9.979 | 91 | 490108 | 9.848 | ppbv | | 100 |
| 61) | Styrene | 9.885 | 104 | 234901 | 10.522 | ppbv | | 100 |
| 62) | Isopropylbenzene | 10.552 | 105 | 742261 | 9.638 | ppbv | | 100 |
| 63) | 1,1,2,2-Tetrachloroethane | 9.976 | 83 | 300600 | 9.596 | ppbv | | 100 |
| 64) | n-propylbenzene | 11.002 | 120 | 187706 | 9.646 | ppbv | | 99 |
| 65) | tert-Butylbenzene | 11.542 | 119 | 670259 | 9.550 | ppbv | | 100 |
| 66) | Benzyl Chloride | 11.626 | 91 | 46008 | 10.591 | ppbv | | 100 |
| 67) | sec-Butylbenzene | 11.778 | 105 | 920046 | 9.521 | ppbv | | 100 |
| 69) | p-Isopropyltoluene | 11.937 | 119 | 771465 | 9.694 | ppbv | | 100 |
| 70) | n-Butylbenzene | 12.293 | 91 | 759785 | 9.627 | ppbv | | 100 |
| 71) | 2-Chlorotoluene | 10.914 | 91 | 556170 | 9.763 | ppbv | | 100 |
| 72) | 4-Ethyltoluene | 11.137 | 105 | 586667 | 9.855 | ppbv | | 100 |
| 73) | 1,3,5-Trimethylbenzene | 11.215 | 105 | 505443 | 9.614 | ppbv | | 100 |
| 74) | 1,2,4-Trimethylbenzene | 11.549 | 105 | 538665 | 9.461 | ppbv | | 100 |
| 75) | 1,3-Dichlorobenzene | 11.620 | 146 | 310421 | 9.201 | ppbv | | 100 |
| 76) | 1,4-Dichlorobenzene | 11.684 | 146 | 307758 | 9.324 | ppbv | | 100 |
| 77) | 1,2-Dichlorobenzene | 11.960 | 146 | 303196 | 9.068 | ppbv | | 100 |
| 78) | Hexachloro-1,3-Butadiene | 13.895 | 225 | 234457 | 8.543 | ppbv | | 100 |
| 79) | Naphthalene | 13.526 | 128 | 502354 | 8.764 | ppbv | | 100 |
| 80) | Naphthalene,2-methyl- | 14.471 | 142 | 185336 | 6.819 | ppbv | | 100 |
| 81) | 1,2,4-Trichlorobenzene | 13.452 | 180 | 239317 | 8.553 | ppbv | | 100 |

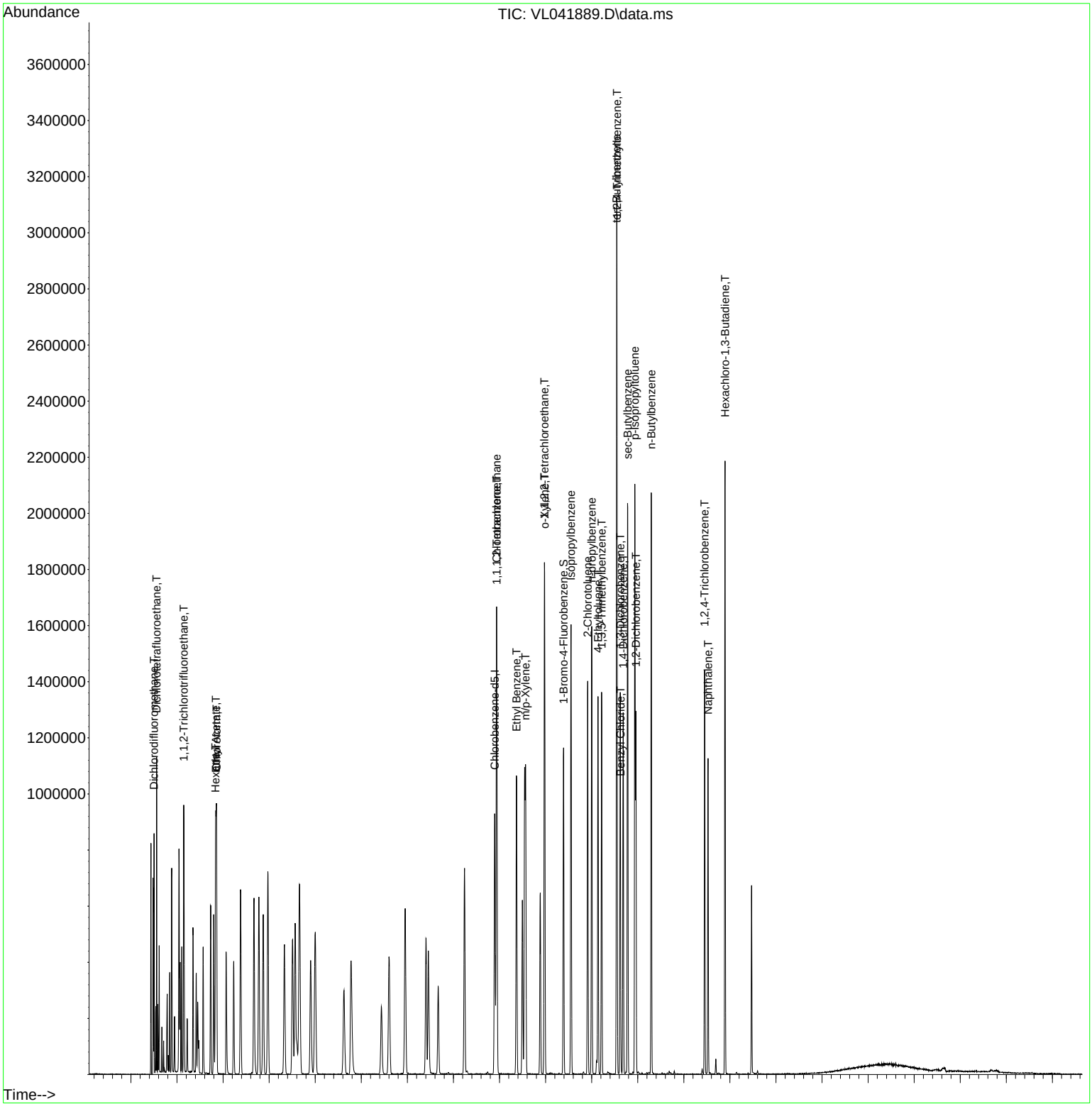
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041889.D
Acq On : 14 Jan 2025 12:55
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:20:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041890.D
Acq On : 14 Jan 2025 13:28
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:20:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 2.797 | 49 | 150761 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.971 | 114 | 452131 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.894 | 117 | 394865 | 10.000 | ppbv | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.390 | 95 | 313784 | 10.089 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 100.900% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.502 | 85 | 40991 | 1.996 | ppbv | | 98 |
| 3) Chlorodifluoromethane | 1.479 | 51 | 44207 | 2.055 | ppbv | | 99 |
| 4) Chloromethane | 1.538 | 50 | 15833 | 2.050 | ppbv | | 93 |
| 5) Vinyl Chloride | 1.583 | 62 | 15137 | 1.935 | ppbv | | 99 |
| 6) Bromomethane | 1.673 | 94 | 7486 | 2.008 | ppbv | | 91 |
| 7) Chloroethane | 1.709 | 64 | 6303 | 2.071 | ppbv | # | 84 |
| 8) Dichlorotetrafluoroethane | 1.557 | 85 | 36941 | 2.058 | ppbv | | 99 |
| 9) Propene | 1.486 | 41 | 18248 | 2.059 | ppbv | | 95 |
| 10) Heptane | 5.001 | 43 | 49302 | 2.081 | ppbv | | 97 |
| 11) Trichlorofluoromethane | 1.884 | 101 | 43266 | 2.025 | ppbv | | 97 |
| 12) 1,1,2-Trichlorotrifluo... | 2.146 | 101 | 35162 | 2.100 | ppbv | | 97 |
| 13) Ethanol | 1.725 | 45 | 1534 | 2.363 | ppbv | | 84 |
| 14) Bromoethene | 1.787 | 108 | 12163 | 1.984 | ppbv | # | 95 |
| 15) Acetone | 1.842 | 43 | 37867 | 2.091 | ppbv | | 99 |
| 16) 1,3-Butadiene | 1.612 | 39 | 16446 | 2.024 | ppbv | | 100 |
| 17) tert-Butyl alcohol | 2.049 | 59 | 45305 | 2.033 | ppbv | | 99 |
| 18) 1,1-Dichloroethene | 2.039 | 96 | 15508 | 2.055 | ppbv | | 97 |
| 19) Isopropyl Alcohol | 1.894 | 45 | 21530 | 2.005 | ppbv | | 94 |
| 20) Methylene Chloride | 2.068 | 84 | 14399 | 2.012 | ppbv | | 95 |
| 21) Allyl Chloride | 2.104 | 41 | 25533 | 2.036 | ppbv | | 97 |
| 22) trans-1,2-Dichloroethene | 2.350 | 96 | 17951 | 2.108 | ppbv | | 83 |
| 23) Vinyl Acetate | 2.470 | 43 | 16358 | 2.075 | ppbv | | 99 |
| 24) 1,1-Dichloroethane | 2.418 | 63 | 33175 | 2.014 | ppbv | | 99 |
| 25) Ethyl Acetate | 2.848 | 43 | 102475 | 2.099 | ppbv | | 99 |
| 26) Hexane | 2.835 | 57 | 41844 | 2.167 | ppbv | | 99 |
| 27) Carbon Disulfide | 2.156 | 76 | 39306 | 2.057 | ppbv | # | 70 |
| 28) Methyl tert-Butyl Ether | 2.454 | 73 | 30355 | 2.056 | ppbv | | 96 |
| 29) Chloroform | 2.858 | 83 | 63457 | 2.079 | ppbv | | 94 |
| 30) Cyclohexane | 3.874 | 84 | 34518 | 2.061 | ppbv | | 97 |
| 31) cis-1,2-Dichloroethene | 2.729 | 61 | 41921 | 2.062 | ppbv | | 89 |
| 32) 1,1,1-Trichloroethane | 3.382 | 97 | 58965 | 2.019 | ppbv | | 98 |
| 34) 2-Butanone | 2.570 | 43 | 61381 | 2.135 | ppbv | | 99 |
| 35) Carbon Tetrachloride | 3.777 | 117 | 59430 | 2.089 | ppbv | | 95 |
| 36) Benzene | 3.670 | 78 | 85859 | 2.070 | ppbv | | 96 |
| 37) 1,2-Dichloroethane | 3.230 | 62 | 46786 | 2.009 | ppbv | | 100 |
| 38) Trichloroethene | 4.564 | 130 | 33773 | 2.052 | ppbv | | 98 |
| 39) 1,2-Dichloropropane | 4.334 | 63 | 29723 | 2.043 | ppbv | | 96 |
| 40) 1,4-Dioxane | 4.619 | 88 | 14566m | 1.984 | ppbv | | |
| 41) Tetrahydrofuran | 3.072 | 42 | 32358 | 2.064 | ppbv | | 96 |
| 42) Bromodichloromethane | 4.509 | 83 | 63611 | 2.037 | ppbv | | 99 |
| 43) Methyl Methacrylate | 4.900 | 69 | 31519 | 2.046 | ppbv | | 99 |
| 44) 2,2,4-Trimethylpentane | 4.658 | 57 | 141602 | 2.111 | ppbv | | 100 |
| 45) t-1,3-Dichloropropene | 6.435 | 75 | 28818 | 1.999 | ppbv | | 97 |

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041890.D
Acq On : 14 Jan 2025 13:28
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:20:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.625 | 75 | 39668 | 2.095 | ppbv | | 94 |
| 47) 1,1,2-Trichloroethane | 6.600 | 97 | 31694m | 2.055 | ppbv | | |
| 48) Dibromochloromethane | 7.406 | 129 | 48894 | 2.055 | ppbv | | 99 |
| 49) Bromoform | 9.496 | 173 | 39710 | 2.032 | ppbv | | 99 |
| 50) 4-Methyl-2-Pentanone | 5.784 | 43 | 81330 | 2.076 | ppbv | | 98 |
| 51) 2-Hexanone | 7.457 | 43 | 66831 | 2.216 | ppbv | # | 98 |
| 52) Tetrachloroethene | 8.241 | 164 | 29814 | 2.074 | ppbv | | 94 |
| 53) Toluene | 6.952 | 91 | 94741 | 2.097 | ppbv | | 98 |
| 54) 1,2-Dibromoethane | 7.671 | 107 | 44636 | 2.106 | ppbv | | 96 |
| 56) 1,1,1,2-Tetrachloroethane | 8.940 | 131 | 40249 | 2.043 | ppbv | | 93 |
| 57) Chlorobenzene | 8.933 | 112 | 77180 | 2.119 | ppbv | | 94 |
| 58) Ethyl Benzene | 9.367 | 91 | 130554 | 2.116 | ppbv | | 98 |
| 59) m/p-Xylene | 9.561 | 91 | 214076m | 4.322 | ppbv | | |
| 60) o-Xylene | 9.975 | 91 | 106458 | 2.168 | ppbv | | 99 |
| 61) Styrene | 9.885 | 104 | 45490 | 2.065 | ppbv | | 99 |
| 62) Isopropylbenzene | 10.552 | 105 | 163135 | 2.147 | ppbv | | 97 |
| 63) 1,1,2,2-Tetrachloroethane | 9.975 | 83 | 67775 | 2.193 | ppbv | | 99 |
| 64) n-propylbenzene | 11.001 | 120 | 41184 | 2.145 | ppbv | | 99 |
| 65) tert-Butylbenzene | 11.542 | 119 | 151534 | 2.189 | ppbv | | 97 |
| 66) Benzyl Chloride | 11.626 | 91 | 8925 | 2.083 | ppbv | | 97 |
| 67) sec-Butylbenzene | 11.778 | 105 | 211759 | 2.221 | ppbv | | 99 |
| 69) p-Isopropyltoluene | 11.937 | 119 | 178172 | 2.270 | ppbv | | 100 |
| 70) n-Butylbenzene | 12.293 | 91 | 174217 | 2.238 | ppbv | | 99 |
| 71) 2-Chlorotoluene | 10.914 | 91 | 121418 | 2.161 | ppbv | | 100 |
| 72) 4-Ethyltoluene | 11.137 | 105 | 127115 | 2.164 | ppbv | | 100 |
| 73) 1,3,5-Trimethylbenzene | 11.215 | 105 | 114342 | 2.205 | ppbv | | 99 |
| 74) 1,2,4-Trimethylbenzene | 11.548 | 105 | 126939 | 2.260 | ppbv | # | 89 |
| 75) 1,3-Dichlorobenzene | 11.616 | 146 | 71332 | 2.143 | ppbv | | 98 |
| 76) 1,4-Dichlorobenzene | 11.684 | 146 | 70219 | 2.156 | ppbv | | 99 |
| 77) 1,2-Dichlorobenzene | 11.960 | 146 | 71818 | 2.177 | ppbv | | 100 |
| 78) Hexachloro-1,3-Butadiene | 13.892 | 225 | 60984 | 2.253 | ppbv | | 99 |
| 79) Naphthalene | 13.526 | 128 | 153268 | 2.710 | ppbv | | 98 |
| 80) Naphthalene,2-methyl- | 14.471 | 142 | 90910 | 3.391 | ppbv | | 99 |
| 81) 1,2,4-Trichlorobenzene | 13.452 | 180 | 64653 | 2.342 | ppbv | | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

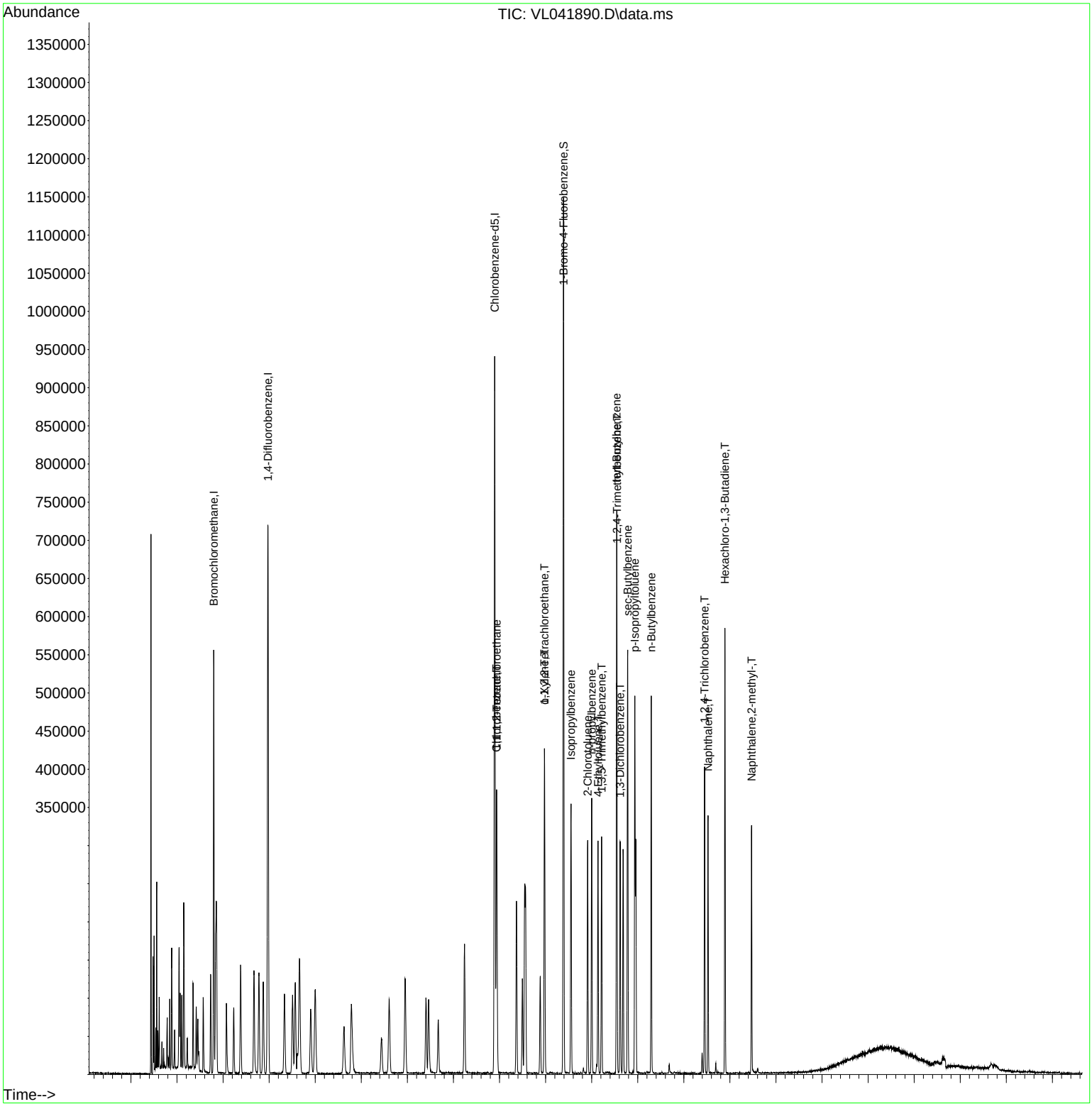
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041890.D
Acq On : 14 Jan 2025 13:28
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:20:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041891.D
Acq On : 14 Jan 2025 13:59
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:20:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 2.797 | 49 | 151226 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.972 | 114 | 453418 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.895 | 117 | 393836 | 10.000 | ppbv | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.387 | 95 | 312013 | 10.058 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 100.600% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.502 | 85 | 21262 | 1.032 | ppbv | | 95 |
| 3) Chlorodifluoromethane | 1.479 | 51 | 23396 | 1.084 | ppbv | | 100 |
| 4) Chloromethane | 1.534 | 50 | 7546 | 0.974 | ppbv | | 94 |
| 5) Vinyl Chloride | 1.583 | 62 | 8031 | 1.023 | ppbv | | 97 |
| 6) Bromomethane | 1.674 | 94 | 4139 | 1.107 | ppbv | # | 81 |
| 7) Chloroethane | 1.709 | 64 | 3093 | 1.013 | ppbv | | 92 |
| 8) Dichlorotetrafluoroethane | 1.557 | 85 | 18122 | 1.007 | ppbv | | 100 |
| 9) Propene | 1.486 | 41 | 8719 | 0.981 | ppbv | | 93 |
| 10) Heptane | 5.001 | 43 | 24438 | 1.029 | ppbv | | 96 |
| 11) Trichlorofluoromethane | 1.884 | 101 | 21425 | 1.000 | ppbv | | 98 |
| 12) 1,1,2-Trichlorotrifluo... | 2.143 | 101 | 17187 | 1.023 | ppbv | | 95 |
| 13) Ethanol | 1.725 | 45 | 650 | 0.998 | ppbv | # | 29 |
| 14) Bromoethene | 1.787 | 108 | 6736 | 1.096 | ppbv | # | 88 |
| 15) Acetone | 1.842 | 43 | 19681 | 1.084 | ppbv | | 95 |
| 16) 1,3-Butadiene | 1.612 | 39 | 8901 | 1.092 | ppbv | | 98 |
| 17) tert-Butyl alcohol | 2.049 | 59 | 23571 | 1.054 | ppbv | | 95 |
| 18) 1,1-Dichloroethene | 2.039 | 96 | 7819m | 1.033 | ppbv | | |
| 19) Isopropyl Alcohol | 1.894 | 45 | 11054 | 1.026 | ppbv | # | 32 |
| 20) Methylene Chloride | 2.065 | 84 | 7608 | 1.060 | ppbv | # | 89 |
| 21) Allyl Chloride | 2.101 | 41 | 12451 | 0.990 | ppbv | | 98 |
| 22) trans-1,2-Dichloroethene | 2.347 | 96 | 8819 | 1.032 | ppbv | | 96 |
| 23) Vinyl Acetate | 2.470 | 43 | 7181 | 0.908 | ppbv | # | 93 |
| 24) 1,1-Dichloroethane | 2.415 | 63 | 16623 | 1.006 | ppbv | | 97 |
| 25) Ethyl Acetate | 2.845 | 43 | 50690 | 1.035 | ppbv | | 98 |
| 26) Hexane | 2.836 | 57 | 18893 | 0.975 | ppbv | | 86 |
| 27) Carbon Disulfide | 2.156 | 76 | 18993 | 0.991 | ppbv | # | 23 |
| 28) Methyl tert-Butyl Ether | 2.450 | 73 | 17955 | 1.213 | ppbv | | 98 |
| 29) Chloroform | 2.858 | 83 | 31155 | 1.017 | ppbv | | 97 |
| 30) Cyclohexane | 3.871 | 84 | 18048 | 1.074 | ppbv | | 96 |
| 31) cis-1,2-Dichloroethene | 2.729 | 61 | 21124 | 1.036 | ppbv | | 99 |
| 32) 1,1,1-Trichloroethane | 3.383 | 97 | 30396 | 1.037 | ppbv | | 98 |
| 34) 2-Butanone | 2.570 | 43 | 29280 | 1.015 | ppbv | | 99 |
| 35) Carbon Tetrachloride | 3.774 | 117 | 27946 | 0.979 | ppbv | | 96 |
| 36) Benzene | 3.671 | 78 | 43023 | 1.035 | ppbv | | 93 |
| 37) 1,2-Dichloroethane | 3.230 | 62 | 23402 | 1.002 | ppbv | | 98 |
| 38) Trichloroethene | 4.564 | 130 | 16954m | 1.027 | ppbv | | |
| 39) 1,2-Dichloropropane | 4.331 | 63 | 14570 | 0.999 | ppbv | | 98 |
| 40) 1,4-Dioxane | 4.613 | 88 | 7345m | 0.998 | ppbv | | |
| 41) Tetrahydrofuran | 3.075 | 42 | 15580m | 0.991 | ppbv | | |
| 42) Bromodichloromethane | 4.509 | 83 | 29893m | 0.955 | ppbv | | |
| 43) Methyl Methacrylate | 4.901 | 69 | 15222 | 0.985 | ppbv | | 95 |
| 44) 2,2,4-Trimethylpentane | 4.661 | 57 | 68050 | 1.012 | ppbv | | 98 |
| 45) t-1,3-Dichloropropene | 6.438 | 75 | 13220 | 0.914 | ppbv | | 92 |

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041891.D
Acq On : 14 Jan 2025 13:59
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:20:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.626 | 75 | 17749 | 0.935 | ppbv | | 97 |
| 47) 1,1,2-Trichloroethane | 6.603 | 97 | 15658m | 1.013 | ppbv | | |
| 48) Dibromochloromethane | 7.402 | 129 | 22169 | 0.929 | ppbv | | 100 |
| 49) Bromoform | 9.497 | 173 | 17876 | 0.912 | ppbv | | 100 |
| 50) 4-Methyl-2-Pentanone | 5.787 | 43 | 39436m | 1.004 | ppbv | | |
| 51) 2-Hexanone | 7.464 | 43 | 28999 | 0.959 | ppbv | # | 95 |
| 52) Tetrachloroethene | 8.244 | 164 | 14903 | 1.034 | ppbv | # | 80 |
| 53) Toluene | 6.956 | 91 | 45140m | 0.996 | ppbv | | |
| 54) 1,2-Dibromoethane | 7.668 | 107 | 21202 | 0.997 | ppbv | | 96 |
| 56) 1,1,1,2-Tetrachloroethane | 8.937 | 131 | 20255 | 1.031 | ppbv | | 94 |
| 57) Chlorobenzene | 8.933 | 112 | 38141 | 1.050 | ppbv | | 98 |
| 58) Ethyl Benzene | 9.367 | 91 | 61537 | 1.000 | ppbv | | 99 |
| 59) m/p-Xylene | 9.561 | 91 | 99618m | 2.016 | ppbv | | |
| 60) o-Xylene | 9.972 | 91 | 48888 | 0.998 | ppbv | | 98 |
| 61) Styrene | 9.882 | 104 | 20285 | 0.923 | ppbv | | 99 |
| 62) Isopropylbenzene | 10.549 | 105 | 75801 | 1.000 | ppbv | | 98 |
| 63) 1,1,2,2-Tetrachloroethane | 9.972 | 83 | 33289 | 1.080 | ppbv | | 97 |
| 64) n-propylbenzene | 11.002 | 120 | 19511 | 1.019 | ppbv | | 99 |
| 65) tert-Butylbenzene | 11.539 | 119 | 70183 | 1.016 | ppbv | | 98 |
| 66) Benzyl Chloride | 11.626 | 91 | 3681m | 0.861 | ppbv | | |
| 67) sec-Butylbenzene | 11.778 | 105 | 96749 | 1.018 | ppbv | | 97 |
| 69) p-Isopropyltoluene | 11.937 | 119 | 79283 | 1.013 | ppbv | | 98 |
| 70) n-Butylbenzene | 12.290 | 91 | 80664 | 1.039 | ppbv | | 99 |
| 71) 2-Chlorotoluene | 10.911 | 91 | 55540 | 0.991 | ppbv | | 99 |
| 72) 4-Ethyltoluene | 11.134 | 105 | 56973 | 0.973 | ppbv | | 97 |
| 73) 1,3,5-Trimethylbenzene | 11.215 | 105 | 53550 | 1.035 | ppbv | | 97 |
| 74) 1,2,4-Trimethylbenzene | 11.545 | 105 | 57352 | 1.024 | ppbv | | 96 |
| 75) 1,3-Dichlorobenzene | 11.617 | 146 | 34810 | 1.049 | ppbv | | 99 |
| 76) 1,4-Dichlorobenzene | 11.681 | 146 | 33822 | 1.041 | ppbv | | 97 |
| 77) 1,2-Dichlorobenzene | 11.960 | 146 | 35516 | 1.080 | ppbv | | 98 |
| 78) Hexachloro-1,3-Butadiene | 13.892 | 225 | 29210 | 1.082 | ppbv | | 99 |
| 79) Naphthalene | 13.523 | 128 | 66232 | 1.174 | ppbv | | 98 |
| 80) Naphthalene,2-methyl- | 14.468 | 142 | 28506 | 1.066 | ppbv | | 98 |
| 81) 1,2,4-Trichlorobenzene | 13.452 | 180 | 29053 | 1.055 | ppbv | | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

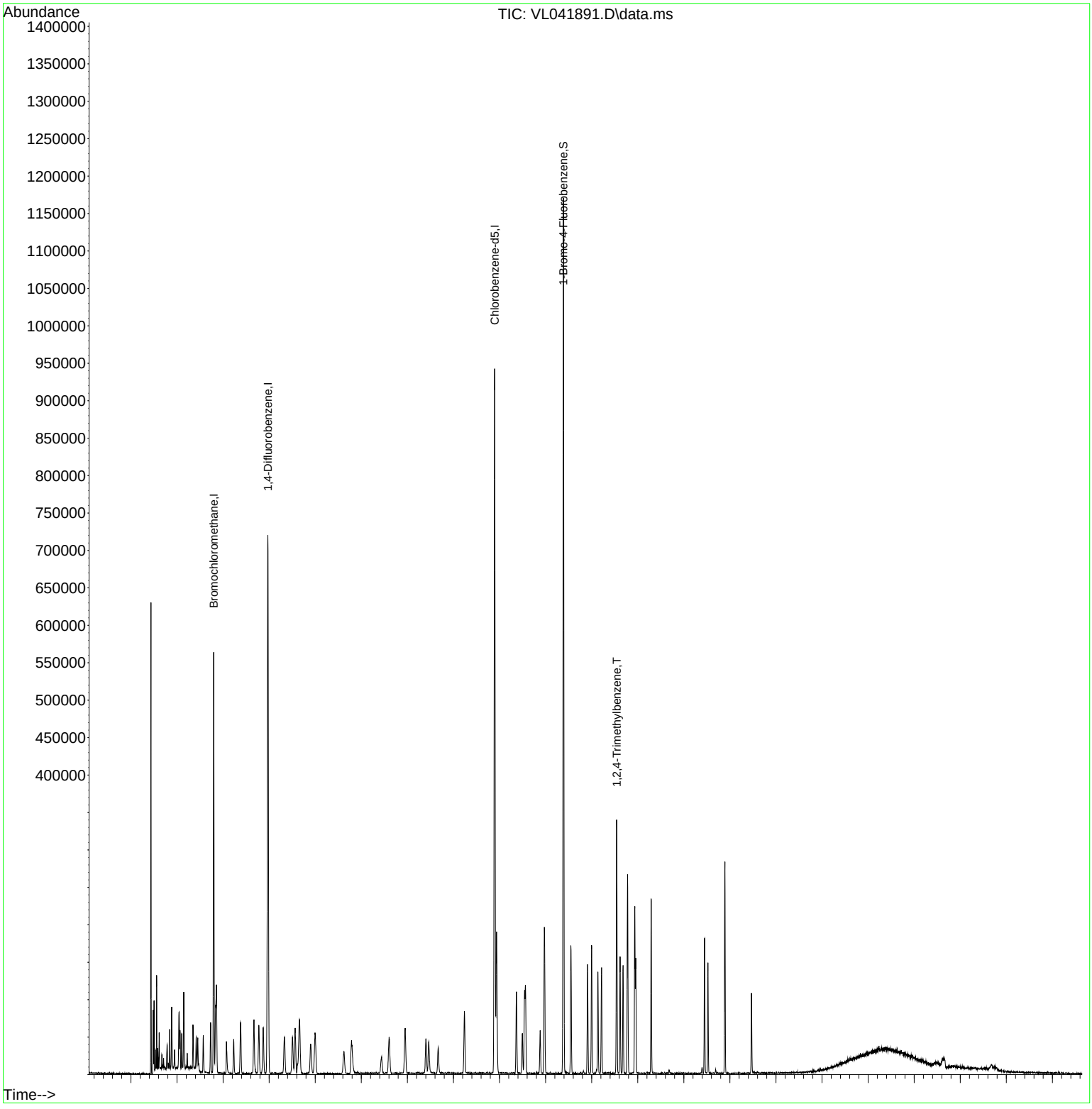
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041891.D
Acq On : 14 Jan 2025 13:59
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:20:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041892.D
Acq On : 14 Jan 2025 14:30
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:21:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) Bromochloromethane | 2.790 | 49 | 146186 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.968 | 114 | 430874 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.891 | 117 | 379402 | 10.000 | ppbv | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.383 | 95 | 297462 | 9.954 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 99.500% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.499 | 85 | 10599 | 0.532 | ppbv | | 99 |
| 3) Chlorodifluoromethane | 1.476 | 51 | 10582 | 0.507 | ppbv | | 98 |
| 4) Chloromethane | 1.534 | 50 | 3990 | 0.533 | ppbv | | 98 |
| 5) Vinyl Chloride | 1.580 | 62 | 4097 | 0.540 | ppbv | | 94 |
| 6) Bromomethane | 1.670 | 94 | 1852 | 0.512 | ppbv | # | 78 |
| 7) Chloroethane | 1.706 | 64 | 1532 | 0.519 | ppbv | # | 77 |
| 8) Dichlorotetrafluoroethane | 1.557 | 85 | 9372 | 0.539 | ppbv | | 95 |
| 9) Propene | 1.486 | 41 | 4690 | 0.546 | ppbv | | 85 |
| 10) Heptane | 4.988 | 43 | 11230 | 0.489 | ppbv | | 95 |
| 11) Trichlorofluoromethane | 1.881 | 101 | 10873 | 0.525 | ppbv | | 99 |
| 12) 1,1,2-Trichlorotrifluo... | 2.143 | 101 | 8027 | 0.494 | ppbv | | 90 |
| 13) Ethanol | 1.725 | 45 | 478m | 0.759 | ppbv | | |
| 14) Bromoethene | 1.784 | 108 | 3071 | 0.517 | ppbv | # | 94 |
| 15) Acetone | 1.839 | 43 | 10273 | 0.585 | ppbv | | 99 |
| 16) 1,3-Butadiene | 1.612 | 39 | 4038 | 0.512 | ppbv | | 99 |
| 17) tert-Butyl alcohol | 2.046 | 59 | 11158 | 0.516 | ppbv | # | 94 |
| 18) 1,1-Dichloroethene | 2.036 | 96 | 3803 | 0.520 | ppbv | | 95 |
| 19) Isopropyl Alcohol | 1.891 | 45 | 6317 | 0.607 | ppbv | # | 32 |
| 20) Methylene Chloride | 2.065 | 84 | 4286 | 0.618 | ppbv | | 93 |
| 21) Allyl Chloride | 2.101 | 41 | 6553 | 0.539 | ppbv | | 96 |
| 22) trans-1,2-Dichloroethene | 2.347 | 96 | 4015 | 0.486 | ppbv | | 89 |
| 23) Vinyl Acetate | 2.467 | 43 | 6381m | 0.835 | ppbv | | |
| 24) 1,1-Dichloroethane | 2.415 | 63 | 8512 | 0.533 | ppbv | | 97 |
| 25) Ethyl Acetate | 2.845 | 43 | 23529 | 0.497 | ppbv | | 97 |
| 26) Hexane | 2.829 | 57 | 9246m | 0.494 | ppbv | | |
| 27) Carbon Disulfide | 2.153 | 76 | 8847 | 0.477 | ppbv | # | 1 |
| 28) Methyl tert-Butyl Ether | 2.447 | 73 | 7621 | 0.532 | ppbv | | 97 |
| 29) Chloroform | 2.855 | 83 | 15360 | 0.519 | ppbv | | 92 |
| 30) Cyclohexane | 3.871 | 84 | 7579 | 0.467 | ppbv | | 92 |
| 31) cis-1,2-Dichloroethene | 2.726 | 61 | 10275 | 0.521 | ppbv | # | 89 |
| 32) 1,1,1-Trichloroethane | 3.379 | 97 | 14198 | 0.501 | ppbv | | 98 |
| 34) 2-Butanone | 2.567 | 43 | 13981 | 0.510 | ppbv | | 94 |
| 35) Carbon Tetrachloride | 3.774 | 117 | 12590 | 0.464 | ppbv | | 89 |
| 36) Benzene | 3.667 | 78 | 19954 | 0.505 | ppbv | | 95 |
| 37) 1,2-Dichloroethane | 3.227 | 62 | 11613 | 0.523 | ppbv | | 97 |
| 38) Trichloroethene | 4.561 | 130 | 8199 | 0.523 | ppbv | # | 89 |
| 39) 1,2-Dichloropropane | 4.324 | 63 | 7526m | 0.543 | ppbv | | |
| 40) 1,4-Dioxane | 4.616 | 88 | 4031m | 0.576 | ppbv | | |
| 41) Tetrahydrofuran | 3.072 | 42 | 7183 | 0.481 | ppbv | | 94 |
| 42) Bromodichloromethane | 4.499 | 83 | 15081m | 0.507 | ppbv | | |
| 43) Methyl Methacrylate | 4.891 | 69 | 7332m | 0.499 | ppbv | | |
| 44) 2,2,4-Trimethylpentane | 4.645 | 57 | 31243 | 0.489 | ppbv | | 95 |
| 45) t-1,3-Dichloropropene | 6.428 | 75 | 6465m | 0.470 | ppbv | | |

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041892.D
Acq On : 14 Jan 2025 14:30
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:21:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.609 | 75 | 7986m | 0.443 | ppbv | | |
| 47) 1,1,2-Trichloroethane | 6.597 | 97 | 7324 | 0.498 | ppbv | # | 84 |
| 48) Dibromochloromethane | 7.393 | 129 | 10548m | 0.465 | ppbv | | |
| 49) Bromoform | 9.493 | 173 | 8162 | 0.438 | ppbv | | 97 |
| 50) 4-Methyl-2-Pentanone | 5.794 | 43 | 19221m | 0.515 | ppbv | | |
| 51) 2-Hexanone | 7.454 | 43 | 13390 | 0.466 | ppbv | # | 97 |
| 52) Tetrachloroethene | 8.238 | 164 | 6821m | 0.498 | ppbv | | |
| 53) Toluene | 6.946 | 91 | 20118 | 0.467 | ppbv | | 96 |
| 54) 1,2-Dibromoethane | 7.665 | 107 | 10511 | 0.520 | ppbv | | 89 |
| 56) 1,1,1,2-Tetrachloroethane | 8.930 | 131 | 9524 | 0.503 | ppbv | # | 1 |
| 57) Chlorobenzene | 8.930 | 112 | 18701 | 0.534 | ppbv | # | 90 |
| 58) Ethyl Benzene | 9.364 | 91 | 28584 | 0.482 | ppbv | # | 88 |
| 59) m/p-Xylene | 9.558 | 91 | 45003m | 0.946 | ppbv | | |
| 60) o-Xylene | 9.972 | 91 | 22370 | 0.474 | ppbv | | 97 |
| 61) Styrene | 9.879 | 104 | 9788 | 0.463 | ppbv | | 99 |
| 62) Isopropylbenzene | 10.545 | 105 | 36561 | 0.501 | ppbv | | 98 |
| 63) 1,1,2,2-Tetrachloroethane | 9.969 | 83 | 15485 | 0.521 | ppbv | | 98 |
| 64) n-propylbenzene | 10.995 | 120 | 9128 | 0.495 | ppbv | | 93 |
| 65) tert-Butylbenzene | 11.536 | 119 | 33122 | 0.498 | ppbv | | 98 |
| 66) Benzyl Chloride | 11.620 | 91 | 1935 | 0.470 | ppbv | | 99 |
| 67) sec-Butylbenzene | 11.775 | 105 | 45326 | 0.495 | ppbv | | 98 |
| 69) p-Isopropyltoluene | 11.931 | 119 | 35136 | 0.466 | ppbv | | 98 |
| 70) n-Butylbenzene | 12.287 | 91 | 35409 | 0.473 | ppbv | | 96 |
| 71) 2-Chlorotoluene | 10.908 | 91 | 26436 | 0.490 | ppbv | | 99 |
| 72) 4-Ethyltoluene | 11.131 | 105 | 27363 | 0.485 | ppbv | | 97 |
| 73) 1,3,5-Trimethylbenzene | 11.209 | 105 | 23183 | 0.465 | ppbv | | 93 |
| 74) 1,2,4-Trimethylbenzene | 11.545 | 105 | 25777 | 0.478 | ppbv | | 89 |
| 75) 1,3-Dichlorobenzene | 11.610 | 146 | 16708 | 0.522 | ppbv | | 100 |
| 76) 1,4-Dichlorobenzene | 11.678 | 146 | 15738 | 0.503 | ppbv | | 96 |
| 77) 1,2-Dichlorobenzene | 11.953 | 146 | 16364 | 0.516 | ppbv | | 93 |
| 78) Hexachloro-1,3-Butadiene | 13.892 | 225 | 14162 | 0.544 | ppbv | | 96 |
| 79) Naphthalene | 13.520 | 128 | 28052 | 0.516 | ppbv | | 98 |
| 80) Naphthalene,2-methyl- | 14.468 | 142 | 10859 | 0.422 | ppbv | | 97 |
| 81) 1,2,4-Trichlorobenzene | 13.445 | 180 | 14136 | 0.533 | ppbv | | 95 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

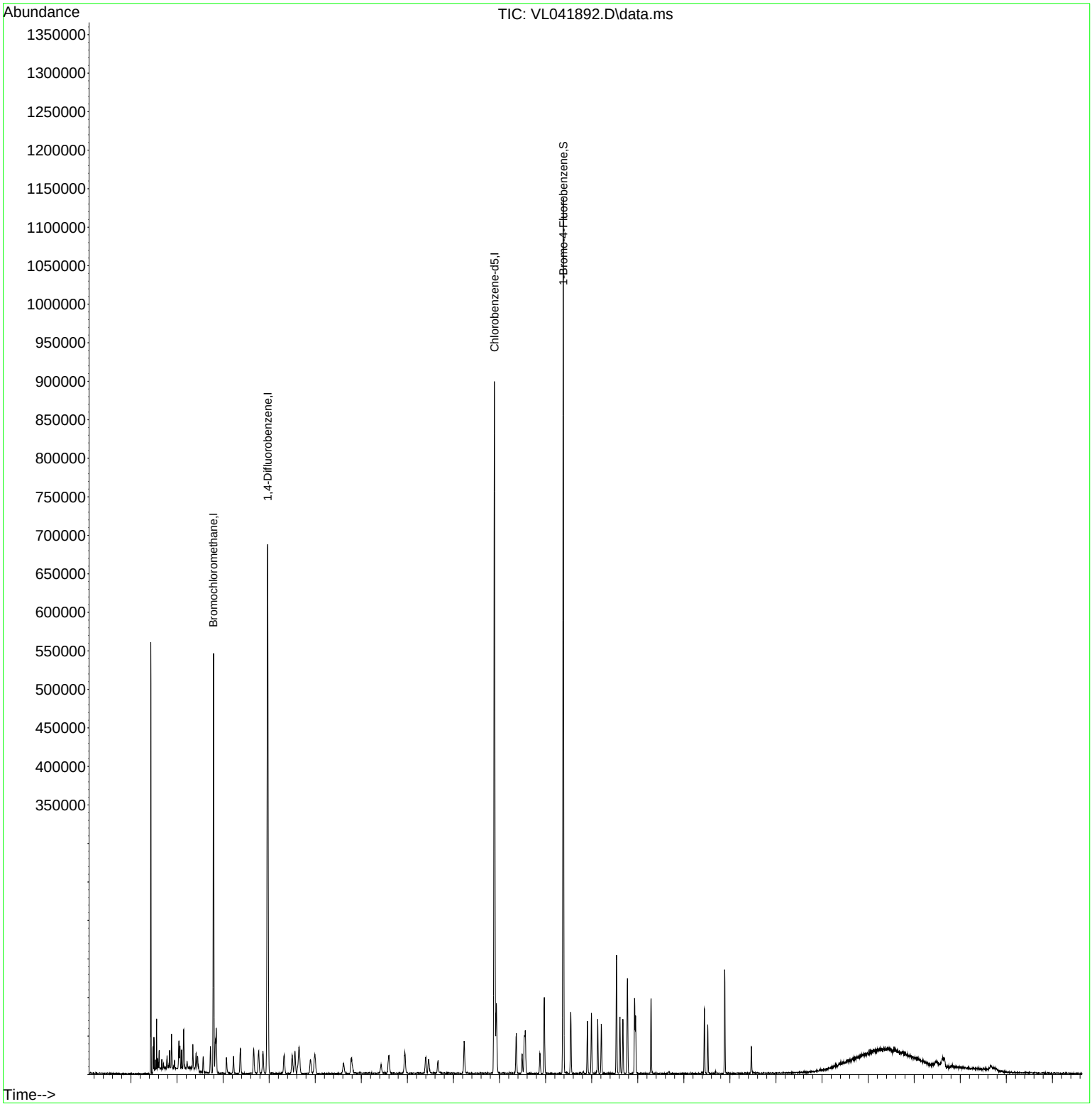
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041892.D
Acq On : 14 Jan 2025 14:30
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:21:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041893.D
Acq On : 14 Jan 2025 15:01
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 22:42:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) Bromochloromethane | 2.793 | 49 | 143362 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.968 | 114 | 425675 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.891 | 117 | 372545 | 10.000 | ppbv | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.387 | 95 | 292283 | 9.961 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 99.600% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 5) Vinyl Chloride | 1.583 | 62 | 828 | 0.111 | ppbv | | 96 |
| 32) 1,1,1-Trichloroethane | 3.383 | 97 | 2640m | 0.095 | ppbv | | |
| 35) Carbon Tetrachloride | 3.768 | 117 | 2587m | 0.097 | ppbv | | |
| 38) Trichloroethene | 4.557 | 130 | 1816m | 0.117 | ppbv | | |
| 52) Tetrachloroethene | 8.234 | 164 | 1480m | 0.109 | ppbv | | |
| 54) 1,2-Dibromoethane | 7.668 | 107 | 1872m | 0.094 | ppbv | | |
| 63) 1,1,2,2-Tetrachloroethane | 9.976 | 83 | 2816 | 0.097 | ppbv | | 95 |
| 79) Naphthalene | 13.520 | 128 | 3643 | 0.068 | ppbv | # | 96 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

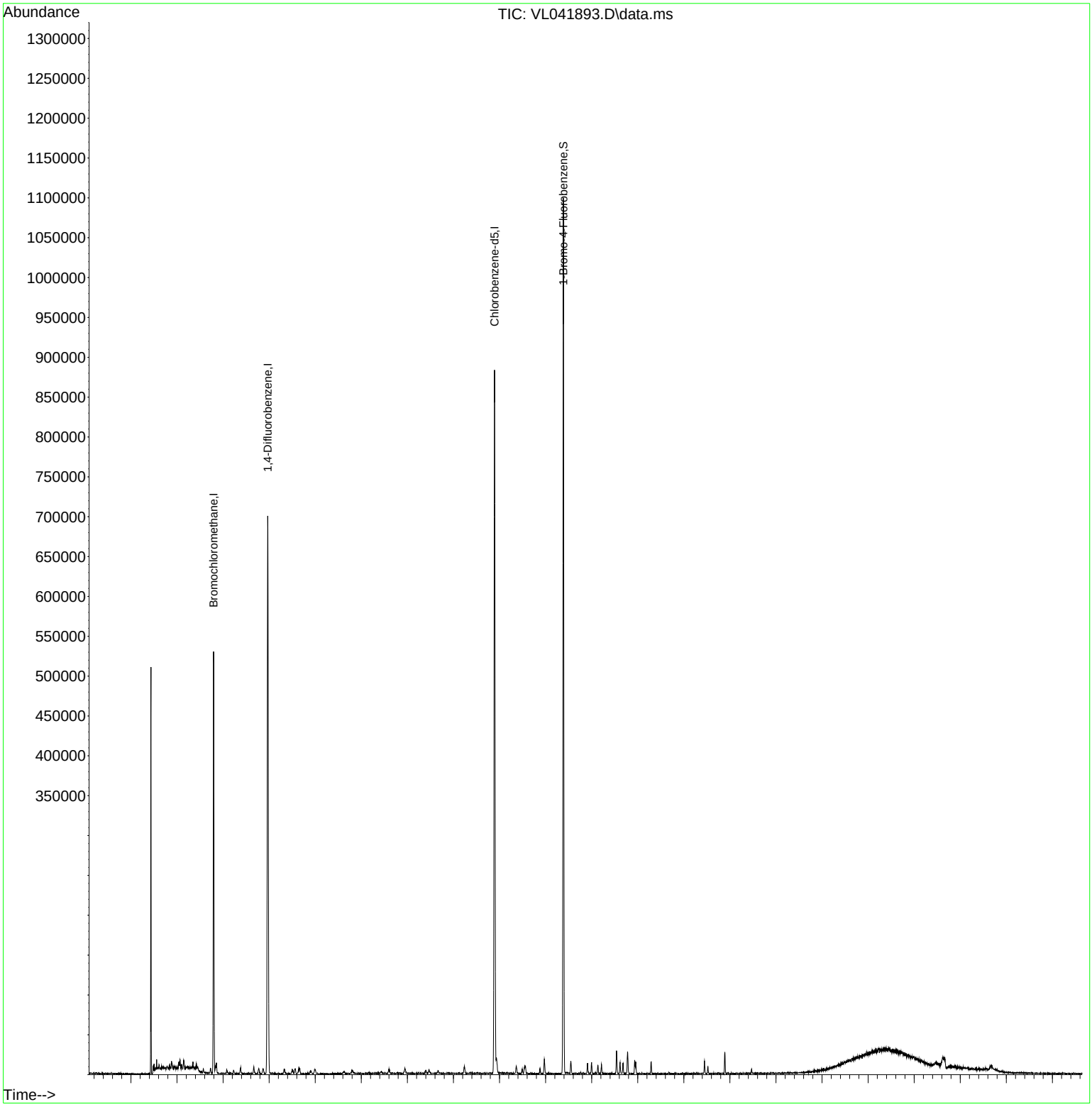
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041893.D
Acq On : 14 Jan 2025 15:01
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 22:42:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041894.D
Acq On : 14 Jan 2025 15:32
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:21:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.793 | 49 | 141659 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.972 | 114 | 424686 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.891 | 117 | 367402 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.387 | 95 | 287792 | 9.945 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 99.500% | | | |
| Target Compounds | | | | | | Qvalue |
| 5) Vinyl Chloride | 1.586 | 62 | 214m | 0.029 | ppbv | |
| 32) 1,1,1-Trichloroethane | 3.379 | 97 | 823 | 0.030 | ppbv | 85 |
| 35) Carbon Tetrachloride | 3.774 | 117 | 771 | 0.029 | ppbv # | 56 |
| 38) Trichloroethene | 4.557 | 130 | 364m | 0.024 | ppbv | |
| 52) Tetrachloroethene | 8.250 | 164 | 408m | 0.030 | ppbv | |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

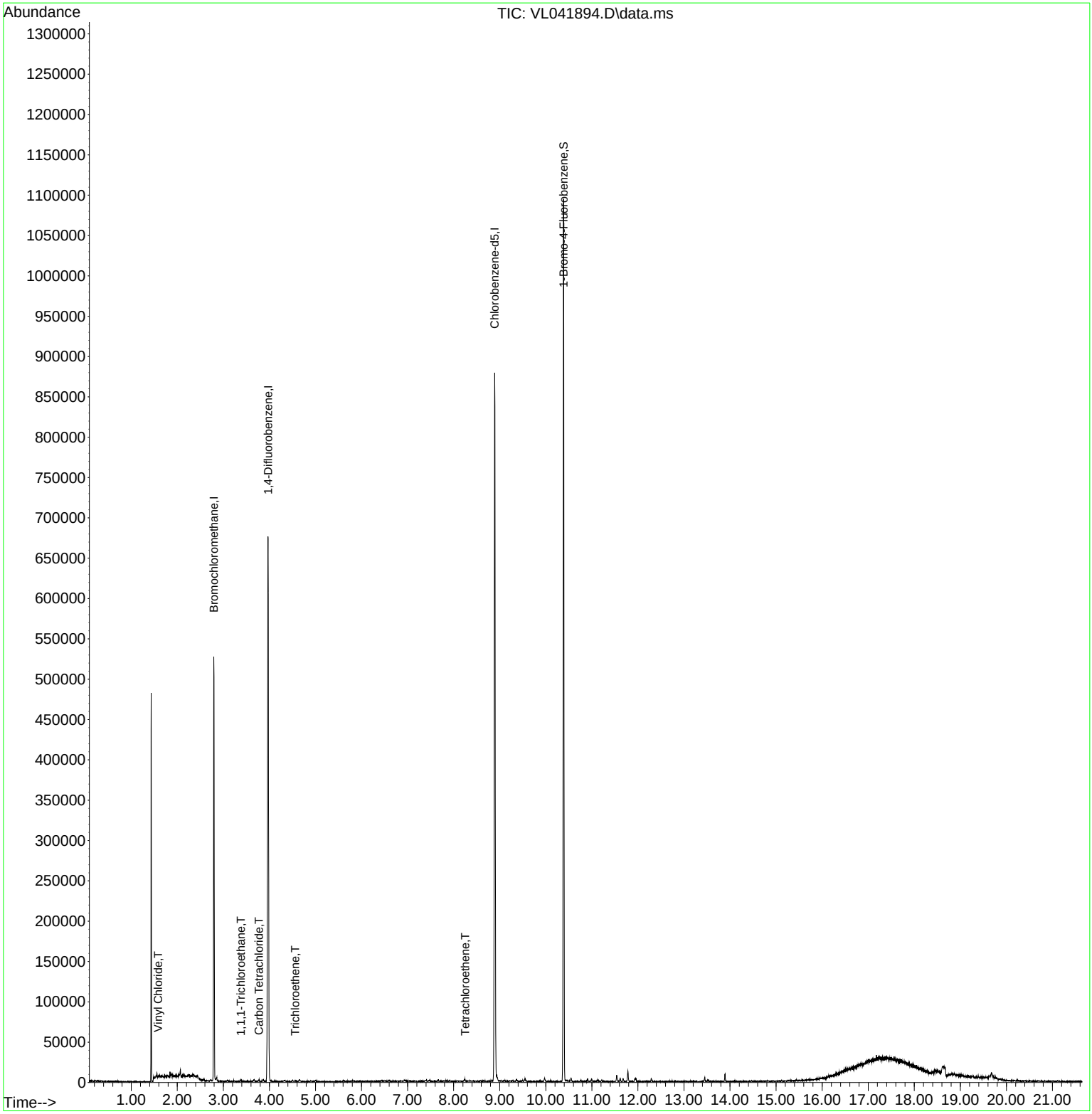
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041894.D
Acq On : 14 Jan 2025 15:32
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:21:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041895.D
Acq On : 14 Jan 2025 16:05
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:21:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.793 | 49 | 141652 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.968 | 114 | 419859 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.895 | 117 | 383799 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.387 | 95 | 304042 | 10.058 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 100.600% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.502 | 85 | 275248 | 14.266 | ppbv | 100 |
| 3) Chlorodifluoromethane | 1.479 | 51 | 285437 | 14.121 | ppbv | 98 |
| 4) Chloromethane | 1.534 | 50 | 106071 | 14.617 | ppbv | 98 |
| 5) Vinyl Chloride | 1.583 | 62 | 104404 | 14.204 | ppbv | 98 |
| 6) Bromomethane | 1.670 | 94 | 49415 | 14.106 | ppbv | 91 |
| 7) Chloroethane | 1.709 | 64 | 41130 | 14.383 | ppbv | 100 |
| 8) Dichlorotetrafluoroethane | 1.557 | 85 | 244666 | 14.510 | ppbv | 100 |
| 9) Propene | 1.486 | 41 | 116343 | 13.972 | ppbv | 99 |
| 10) Heptane | 4.998 | 43 | 326897 | 14.688 | ppbv | 98 |
| 11) Trichlorofluoromethane | 1.881 | 101 | 299656 | 14.930 | ppbv | 97 |
| 12) 1,1,2-Trichlorotrifluo... | 2.143 | 101 | 232607 | 14.787 | ppbv | 100 |
| 13) Ethanol | 1.725 | 45 | 6109 | 10.016 | ppbv | 83 |
| 14) Bromoethene | 1.784 | 108 | 83586 | 14.513 | ppbv | 98 |
| 15) Acetone | 1.839 | 43 | 223353 | 13.128 | ppbv | 99 |
| 16) 1,3-Butadiene | 1.612 | 39 | 109420 | 14.329 | ppbv | 99 |
| 17) tert-Butyl alcohol | 2.046 | 59 | 298424 | 14.252 | ppbv | 99 |
| 18) 1,1-Dichloroethene | 2.039 | 96 | 104645 | 14.759 | ppbv | 92 |
| 19) Isopropyl Alcohol | 1.890 | 45 | 134050 | 13.288 | ppbv | 98 |
| 20) Methylene Chloride | 2.065 | 84 | 88425 | 13.151 | ppbv | 98 |
| 21) Allyl Chloride | 2.101 | 41 | 169875 | 14.419 | ppbv | 96 |
| 22) trans-1,2-Dichloroethene | 2.347 | 96 | 118169 | 14.768 | ppbv | 97 |
| 23) Vinyl Acetate | 2.470 | 43 | 116632 | 15.747 | ppbv | 98 |
| 24) 1,1-Dichloroethane | 2.415 | 63 | 230015 | 14.862 | ppbv | 99 |
| 25) Ethyl Acetate | 2.842 | 43 | 665170 | 14.499 | ppbv | 100 |
| 26) Hexane | 2.836 | 57 | 263948 | 14.547 | ppbv | 97 |
| 27) Carbon Disulfide | 2.156 | 76 | 278476 | 15.509 | ppbv | 99 |
| 28) Methyl tert-Butyl Ether | 2.447 | 73 | 187986 | 13.555 | ppbv | 98 |
| 29) Chloroform | 2.858 | 83 | 413733 | 14.424 | ppbv | 98 |
| 30) Cyclohexane | 3.868 | 84 | 233398 | 14.830 | ppbv | 99 |
| 31) cis-1,2-Dichloroethene | 2.729 | 61 | 271739 | 14.223 | ppbv | 94 |
| 32) 1,1,1-Trichloroethane | 3.379 | 97 | 419117 | 15.271 | ppbv | 99 |
| 34) 2-Butanone | 2.564 | 43 | 380813 | 14.262 | ppbv | 99 |
| 35) Carbon Tetrachloride | 3.774 | 117 | 426619 | 16.146 | ppbv | 97 |
| 36) Benzene | 3.667 | 78 | 553665 | 14.378 | ppbv | 100 |
| 37) 1,2-Dichloroethane | 3.227 | 62 | 321362 | 14.859 | ppbv | 99 |
| 38) Trichloroethene | 4.564 | 130 | 222328 | 14.543 | ppbv | 98 |
| 39) 1,2-Dichloropropane | 4.328 | 63 | 191532 | 14.179 | ppbv | 98 |
| 40) 1,4-Dioxane | 4.596 | 88 | 97521 | 14.305 | ppbv # | 93 |
| 41) Tetrahydrofuran | 3.062 | 42 | 217707 | 14.953 | ppbv | 99 |
| 42) Bromodichloromethane | 4.502 | 83 | 445130 | 15.351 | ppbv | 95 |
| 43) Methyl Methacrylate | 4.894 | 69 | 214564 | 14.999 | ppbv | 99 |
| 44) 2,2,4-Trimethylpentane | 4.655 | 57 | 909437 | 14.601 | ppbv | 100 |
| 45) t-1,3-Dichloropropene | 6.435 | 75 | 218001 | 16.281 | ppbv | 100 |

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041895.D
Acq On : 14 Jan 2025 16:05
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:21:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.619 | 75 | 281492 | 16.011 | ppbv | | 98 |
| 47) 1,1,2-Trichloroethane | 6.597 | 97 | 211658 | 14.782 | ppbv | | 95 |
| 48) Dibromochloromethane | 7.402 | 129 | 356392 | 16.134 | ppbv | | 100 |
| 49) Bromoform | 9.493 | 173 | 307617 | 16.953 | ppbv | | 99 |
| 50) 4-Methyl-2-Pentanone | 5.774 | 43 | 533053 | 14.653 | ppbv | | 99 |
| 51) 2-Hexanone | 7.451 | 43 | 430297 | 15.363 | ppbv | # | 97 |
| 52) Tetrachloroethene | 8.237 | 164 | 183208 | 13.721 | ppbv | | 96 |
| 53) Toluene | 6.949 | 91 | 634515 | 15.126 | ppbv | | 99 |
| 54) 1,2-Dibromoethane | 7.665 | 107 | 295967 | 15.036 | ppbv | | 93 |
| 56) 1,1,1,2-Tetrachloroethane | 8.937 | 131 | 280809 | 14.665 | ppbv | | 98 |
| 57) Chlorobenzene | 8.933 | 112 | 479092 | 13.533 | ppbv | | 99 |
| 58) Ethyl Benzene | 9.367 | 91 | 887072 | 14.789 | ppbv | | 100 |
| 59) m/p-Xylene | 9.565 | 91 | 1420585m | 29.506 | ppbv | | |
| 60) o-Xylene | 9.976 | 91 | 704577 | 14.765 | ppbv | | 100 |
| 61) Styrene | 9.882 | 104 | 342490 | 15.999 | ppbv | | 99 |
| 62) Isopropylbenzene | 10.548 | 105 | 1063809 | 14.406 | ppbv | | 100 |
| 63) 1,1,2,2-Tetrachloroethane | 9.976 | 83 | 426347 | 14.194 | ppbv | | 100 |
| 64) n-propylbenzene | 10.998 | 120 | 266972 | 14.308 | ppbv | | 100 |
| 65) tert-Butylbenzene | 11.542 | 119 | 947297 | 14.077 | ppbv | | 98 |
| 66) Benzyl Chloride | 11.626 | 91 | 68623 | 16.475 | ppbv | | 98 |
| 67) sec-Butylbenzene | 11.778 | 105 | 1292858 | 13.952 | ppbv | | 100 |
| 69) p-Isopropyltoluene | 11.937 | 119 | 1089109 | 14.273 | ppbv | | 99 |
| 70) n-Butylbenzene | 12.290 | 91 | 1059002 | 13.994 | ppbv | | 99 |
| 71) 2-Chlorotoluene | 10.911 | 91 | 797555 | 14.601 | ppbv | | 100 |
| 72) 4-Ethyltoluene | 11.134 | 105 | 847451 | 14.846 | ppbv | | 99 |
| 73) 1,3,5-Trimethylbenzene | 11.215 | 105 | 733759 | 14.556 | ppbv | | 96 |
| 74) 1,2,4-Trimethylbenzene | 11.549 | 105 | 773569 | 14.170 | ppbv | | 92 |
| 75) 1,3-Dichlorobenzene | 11.620 | 146 | 443828 | 13.720 | ppbv | | 99 |
| 76) 1,4-Dichlorobenzene | 11.681 | 146 | 447164 | 14.129 | ppbv | | 99 |
| 77) 1,2-Dichlorobenzene | 11.956 | 146 | 429118 | 13.385 | ppbv | | 99 |
| 78) Hexachloro-1,3-Butadiene | 13.892 | 225 | 335016 | 12.731 | ppbv | | 100 |
| 79) Naphthalene | 13.523 | 128 | 724573 | 13.183 | ppbv | | 99 |
| 80) Naphthalene,2-methyl- | 14.468 | 142 | 278955 | 10.704 | ppbv | | 99 |
| 81) 1,2,4-Trichlorobenzene | 13.452 | 180 | 342977 | 12.784 | ppbv | | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

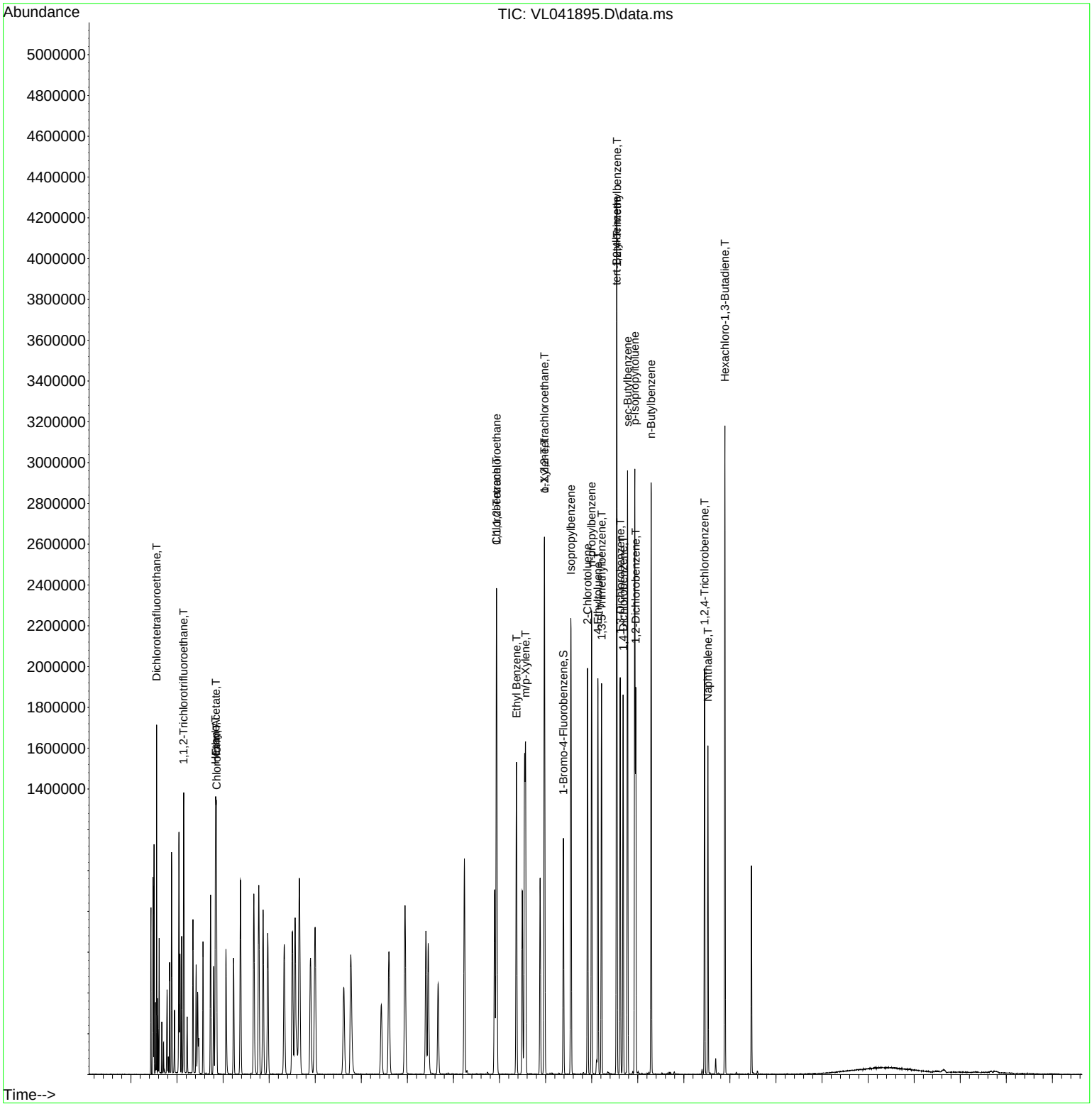
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041895.D
Acq On : 14 Jan 2025 16:05
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:21:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041896.D
Acq On : 14 Jan 2025 17:33
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 15 03:23:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL011425

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.793 | 49 | 141664 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.968 | 114 | 417936 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.891 | 117 | 373391 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.387 | 95 | 298000 | 10.133 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 101.300% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.502 | 85 | 190925 | 9.894 | ppbv | 97 |
| 3) Chlorodifluoromethane | 1.479 | 51 | 200455 | 9.916 | ppbv | 100 |
| 4) Chloromethane | 1.534 | 50 | 71767 | 9.889 | ppbv | 95 |
| 5) Vinyl Chloride | 1.583 | 62 | 71974 | 9.791 | ppbv | 94 |
| 6) Bromomethane | 1.670 | 94 | 33594 | 9.589 | ppbv | 96 |
| 7) Chloroethane | 1.706 | 64 | 29553 | 10.333 | ppbv | 100 |
| 8) Dichlorotetrafluoroethane | 1.557 | 85 | 163783 | 9.712 | ppbv | 99 |
| 9) Propene | 1.486 | 41 | 82320 | 9.886 | ppbv | 99 |
| 10) Heptane | 4.998 | 43 | 225230 | 10.119 | ppbv | 99 |
| 11) Trichlorofluoromethane | 1.881 | 101 | 198523 | 9.890 | ppbv | 96 |
| 12) 1,1,2-Trichlorotrifluo... | 2.143 | 101 | 159862 | 10.162 | ppbv | 100 |
| 13) Ethanol | 1.725 | 45 | 3780 | 6.197 | ppbv | 97 |
| 14) Bromoethene | 1.784 | 108 | 57260 | 9.941 | ppbv | 98 |
| 15) Acetone | 1.839 | 43 | 150112 | 8.822 | ppbv | 98 |
| 16) 1,3-Butadiene | 1.612 | 39 | 73640 | 9.643 | ppbv | 100 |
| 17) tert-Butyl alcohol | 2.046 | 59 | 204358 | 9.758 | ppbv | 98 |
| 18) 1,1-Dichloroethene | 2.039 | 96 | 71011 | 10.015 | ppbv | 96 |
| 19) Isopropyl Alcohol | 1.890 | 45 | 93592 | 9.277 | ppbv | 97 |
| 20) Methylene Chloride | 2.065 | 84 | 60115 | 8.940 | ppbv | 97 |
| 21) Allyl Chloride | 2.101 | 41 | 118907 | 10.092 | ppbv | 97 |
| 22) trans-1,2-Dichloroethene | 2.347 | 96 | 77379 | 9.669 | ppbv | 96 |
| 23) Vinyl Acetate | 2.470 | 43 | 80428 | 9.536 | ppbv # | 95 |
| 24) 1,1-Dichloroethane | 2.415 | 63 | 155440 | 10.042 | ppbv | 98 |
| 25) Ethyl Acetate | 2.842 | 43 | 458484 | 9.993 | ppbv | 100 |
| 26) Hexane | 2.832 | 57 | 184436 | 10.164 | ppbv | 99 |
| 27) Carbon Disulfide | 2.156 | 76 | 186668 | 10.395 | ppbv | 98 |
| 28) Methyl tert-Butyl Ether | 2.447 | 73 | 112489 | 8.110 | ppbv | 99 |
| 29) Chloroform | 2.855 | 83 | 282467 | 9.847 | ppbv | 99 |
| 30) Cyclohexane | 3.865 | 84 | 159296 | 10.120 | ppbv | 99 |
| 31) cis-1,2-Dichloroethene | 2.729 | 61 | 187012 | 9.787 | ppbv | 97 |
| 32) 1,1,1-Trichloroethane | 3.376 | 97 | 284661 | 10.371 | ppbv | 99 |
| 34) 2-Butanone | 2.564 | 43 | 261536 | 9.840 | ppbv | 99 |
| 35) Carbon Tetrachloride | 3.771 | 117 | 285391 | 10.871 | ppbv | 96 |
| 36) Benzene | 3.667 | 78 | 374271 | 9.764 | ppbv | 99 |
| 37) 1,2-Dichloroethane | 3.227 | 62 | 214545 | 9.966 | ppbv | 100 |
| 38) Trichloroethene | 4.564 | 130 | 153255 | 10.075 | ppbv | 95 |
| 39) 1,2-Dichloropropane | 4.324 | 63 | 130483 | 9.704 | ppbv | 97 |
| 40) 1,4-Dioxane | 4.599 | 88 | 63736 | 9.386 | ppbv # | 99 |
| 41) Tetrahydrofuran | 3.062 | 42 | 148132 | 10.255 | ppbv | 98 |
| 42) Bromodichloromethane | 4.506 | 83 | 299656 | 10.381 | ppbv | 96 |
| 43) Methyl Methacrylate | 4.894 | 69 | 145663 | 10.229 | ppbv | 100 |
| 44) 2,2,4-Trimethylpentane | 4.654 | 57 | 619804 | 9.997 | ppbv | 100 |
| 45) t-1,3-Dichloropropene | 6.428 | 75 | 145145 | 10.889 | ppbv | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041896.D
Acq On : 14 Jan 2025 17:33
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 15 03:23:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL011425

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.616 | 75 | 186898 | 10.680 | ppbv | | 98 |
| 47) 1,1,2-Trichloroethane | 6.596 | 97 | 140891 | 9.886 | ppbv | | 97 |
| 48) Dibromochloromethane | 7.399 | 129 | 238244 | 10.835 | ppbv | | 100 |
| 49) Bromoform | 9.493 | 173 | 201141 | 11.136 | ppbv | | 99 |
| 50) 4-Methyl-2-Pentanone | 5.771 | 43 | 363675 | 10.023 | ppbv | | 99 |
| 51) 2-Hexanone | 7.451 | 43 | 284058 | 10.189 | ppbv | # | 99 |
| 52) Tetrachloroethene | 8.237 | 164 | 127806 | 9.616 | ppbv | | 98 |
| 53) Toluene | 6.949 | 91 | 427033 | 10.227 | ppbv | | 99 |
| 54) 1,2-Dibromoethane | 7.665 | 107 | 199339 | 10.175 | ppbv | | 95 |
| 56) 1,1,1,2-Tetrachloroethane | 8.937 | 131 | 188209 | 10.103 | ppbv | | 99 |
| 57) Chlorobenzene | 8.933 | 112 | 329025 | 9.553 | ppbv | | 99 |
| 58) Ethyl Benzene | 9.364 | 91 | 601857 | 10.314 | ppbv | | 99 |
| 59) m/p-Xylene | 9.561 | 91 | 964838m | 20.628 | ppbv | | |
| 60) o-Xylene | 9.972 | 91 | 480442 | 10.348 | ppbv | | 100 |
| 61) Styrene | 9.878 | 104 | 229797 | 11.034 | ppbv | | 99 |
| 62) Isopropylbenzene | 10.548 | 105 | 728189 | 10.136 | ppbv | | 100 |
| 63) 1,1,2,2-Tetrachloroethane | 9.972 | 83 | 290998 | 9.809 | ppbv | | 100 |
| 64) n-propylbenzene | 10.998 | 120 | 182397 | 10.048 | ppbv | | 98 |
| 65) tert-Butylbenzene | 11.539 | 119 | 657521 | 10.043 | ppbv | | 100 |
| 66) Benzyl Chloride | 11.623 | 91 | 42509 | 10.490 | ppbv | # | 97 |
| 67) sec-Butylbenzene | 11.778 | 105 | 901260 | 9.997 | ppbv | | 98 |
| 69) p-Isopropyltoluene | 11.934 | 119 | 745566 | 10.043 | ppbv | | 99 |
| 70) n-Butylbenzene | 12.290 | 91 | 733637 | 9.965 | ppbv | | 99 |
| 71) 2-Chlorotoluene | 10.911 | 91 | 543858 | 10.234 | ppbv | | 100 |
| 72) 4-Ethyltoluene | 11.134 | 105 | 568921 | 10.245 | ppbv | | 99 |
| 73) 1,3,5-Trimethylbenzene | 11.212 | 105 | 493388 | 10.061 | ppbv | | 99 |
| 74) 1,2,4-Trimethylbenzene | 11.545 | 105 | 528225 | 9.946 | ppbv | | 98 |
| 75) 1,3-Dichlorobenzene | 11.617 | 146 | 304133 | 9.664 | ppbv | | 99 |
| 76) 1,4-Dichlorobenzene | 11.681 | 146 | 297765 | 9.670 | ppbv | | 99 |
| 77) 1,2-Dichlorobenzene | 11.956 | 146 | 298039 | 9.555 | ppbv | | 99 |
| 78) Hexachloro-1,3-Butadiene | 13.889 | 225 | 228592 | 8.929 | ppbv | | 99 |
| 79) Naphthalene | 13.523 | 128 | 497063 | 9.295 | ppbv | | 99 |
| 80) Naphthalene,2-methyl- | 14.468 | 142 | 187571 | 7.398 | ppbv | | 98 |
| 81) 1,2,4-Trichlorobenzene | 13.448 | 180 | 236181 | 9.049 | ppbv | | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

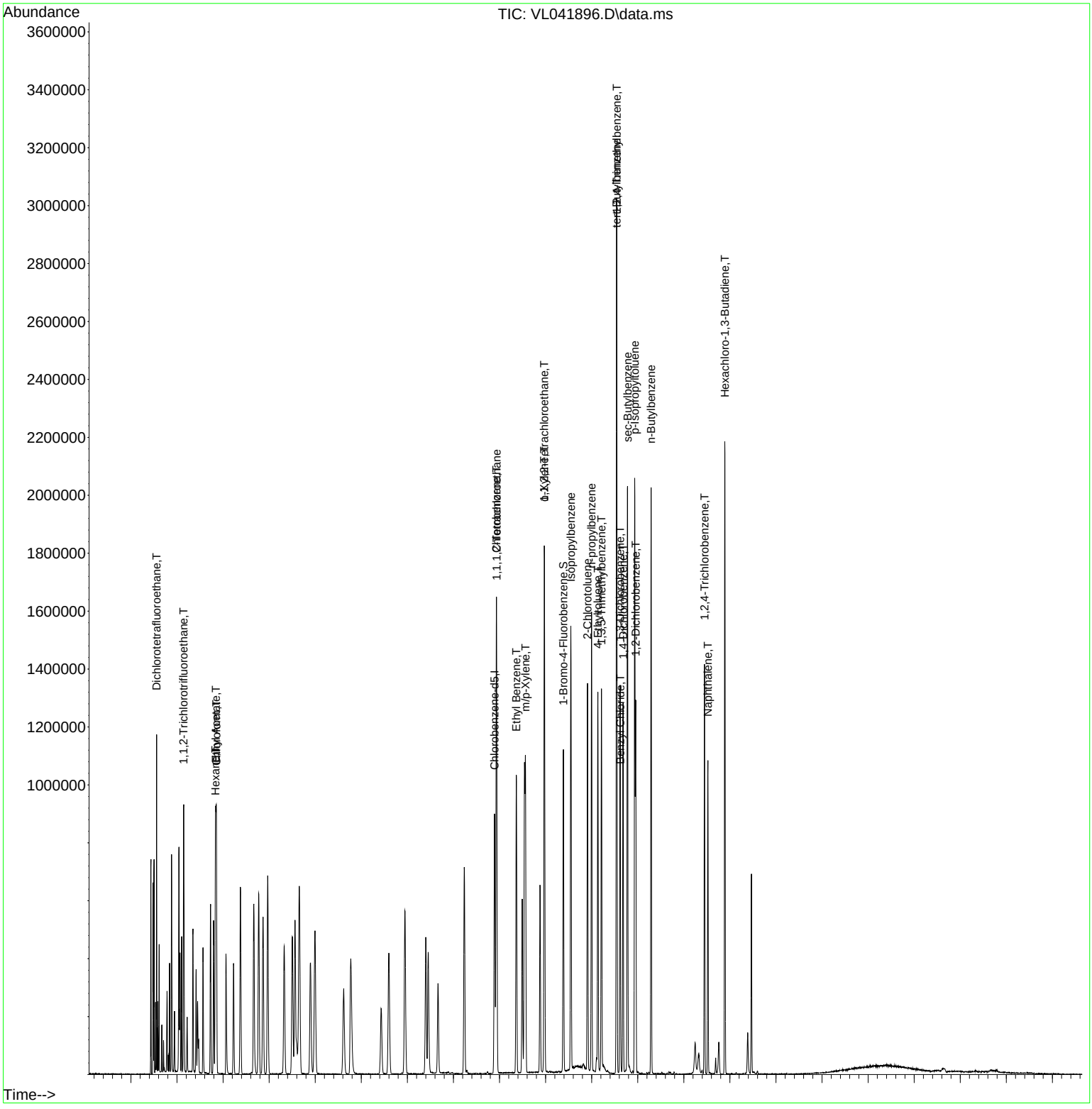
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041896.D
Acq On : 14 Jan 2025 17:33
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 15 03:23:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL011425

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041896.D
Acq On : 14 Jan 2025 17:33
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL011425

Quant Time: Jan 15 03:23:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Bromochloromethane | 1.000 | 1.000 | 0.0 | 93 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 1.362 | 1.348 | 1.0 | 96 | 0.00 |
| 3 | | Chlorodifluoromethane | 1.427 | 1.415 | 0.8 | 99 | 0.00 |
| 4 | | Chloromethane | 0.512 | 0.507 | 1.0 | 96 | 0.00 |
| 5 | T | Vinyl Chloride | 0.519 | 0.508 | 2.1 | 101 | 0.00 |
| 6 | T | Bromomethane | 0.247 | 0.237 | 4.0 | 96 | 0.00 |
| 7 | | Chloroethane | 0.202 | 0.209 | -3.5 | 101 | 0.00 |
| 8 | T | Dichlorotetrafluoroethane | 1.190 | 1.156 | 2.9 | 98 | 0.00 |
| 9 | T | Propene | 0.588 | 0.581 | 1.2 | 95 | 0.00 |
| 10 | T | Heptane | 1.571 | 1.590 | -1.2 | 97 | 0.00 |
| 11 | T | Trichlorofluoromethane | 1.417 | 1.401 | 1.1 | 98 | 0.00 |
| 12 | T | 1,1,2-Trichlorotrifluoroeth | 1.110 | 1.128 | -1.6 | 99 | 0.00 |
| 13 | | Ethanol | 0.043 | 0.027# | 37.2# | 91 | 0.00 |
| 14 | T | Bromoethene | 0.407 | 0.404 | 0.7 | 101 | 0.00 |
| 15 | T | Acetone | 1.201 | 1.060 | 11.7 | 99 | 0.00 |
| 16 | T | 1,3-Butadiene | 0.539 | 0.520 | 3.5 | 98 | 0.00 |
| 17 | | tert-Butyl alcohol | 1.478 | 1.443 | 2.4 | 96 | 0.00 |
| 18 | T | 1,1-Dichloroethene | 0.501 | 0.501 | 0.0 | 102 | 0.00 |
| 19 | T | Isopropyl Alcohol | 0.712 | 0.661 | 7.2 | 99 | 0.00 |
| 20 | T | Methylene Chloride | 0.475 | 0.424 | 10.7 | 101 | 0.00 |
| 21 | T | Allyl Chloride | 0.832 | 0.839 | -0.8 | 99 | 0.00 |
| 22 | T | trans-1,2-Dichloroethene | 0.565 | 0.546 | 3.4 | 94 | 0.00 |
| 23 | T | Vinyl Acetate | 0.595 | 0.568 | 4.5 | 98 | 0.00 |
| 24 | T | 1,1-Dichloroethane | 1.093 | 1.097 | -0.4 | 100 | 0.00 |
| 25 | T | Ethyl Acetate | 3.239 | 3.236 | 0.1 | 97 | 0.00 |
| 26 | T | Hexane | 1.281 | 1.302 | -1.6 | 96 | 0.00 |
| 27 | T | Carbon Disulfide | 1.268 | 1.318 | -3.9 | 97 | 0.00 |
| 28 | T | Methyl tert-Butyl Ether | 0.979 | 0.794 | 18.9 | 95 | 0.00 |
| 29 | T | Chloroform | 2.025 | 1.994 | 1.5 | 97 | 0.00 |
| 30 | T | Cyclohexane | 1.111 | 1.124 | -1.2 | 97 | 0.00 |
| 31 | T | cis-1,2-Dichloroethene | 1.349 | 1.320 | 2.1 | 97 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 1.938 | 2.009 | -3.7 | 98 | 0.00 |
| 33 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 93 | 0.00 |
| 34 | T | 2-Butanone | 0.636 | 0.626 | 1.6 | 97 | 0.00 |
| 35 | T | Carbon Tetrachloride | 0.628 | 0.683 | -8.8 | 98 | 0.00 |
| 36 | T | Benzene | 0.917 | 0.896 | 2.3 | 94 | 0.00 |
| 37 | T | 1,2-Dichloroethane | 0.515 | 0.513 | 0.4 | 97 | 0.00 |
| 38 | T | Trichloroethene | 0.364 | 0.367 | -0.8 | 96 | 0.00 |
| 39 | T | 1,2-Dichloropropane | 0.322 | 0.312 | 3.1 | 95 | 0.00 |
| 40 | T | 1,4-Dioxane | 0.162 | 0.153 | 5.6 | 96 | 0.00 |
| 41 | T | Tetrahydrofuran | 0.346 | 0.354 | -2.3 | 95 | 0.00 |
| 42 | T | Bromodichloromethane | 0.691 | 0.717 | -3.8 | 98 | 0.00 |
| 43 | | Methyl Methacrylate | 0.341 | 0.349 | -2.3 | 96 | 0.00 |
| 44 | T | 2,2,4-Trimethylpentane | 1.484 | 1.483 | 0.1 | 95 | 0.00 |
| 45 | T | t-1,3-Dichloropropene | 0.319 | 0.347 | -8.8 | 96 | 0.00 |
| 46 | T | cis-1,3-Dichloropropene | 0.419 | 0.447 | -6.7 | 93 | 0.00 |
| 47 | T | 1,1,2-Trichloroethane | 0.341 | 0.337 | 1.2 | 94 | 0.00 |
| 48 | T | Dibromochloromethane | 0.526 | 0.570 | -8.4 | 97 | 0.00 |

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041896.D
Acq On : 14 Jan 2025 17:33
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL011425

Quant Time: Jan 15 03:23:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | Bromoform | 0.432 | 0.481 | -11.3 | 97 | 0.00 |
| 50 | T | 4-Methyl-2-Pentanone | 0.868 | 0.870 | -0.2 | 97 | 0.00 |
| 51 | T | 2-Hexanone | 0.667 | 0.680 | -1.9 | 97 | 0.00 |
| 52 | T | Tetrachloroethene | 0.318 | 0.306 | 3.8 | 97 | 0.00 |
| 53 | T | Toluene | 0.999 | 1.022 | -2.3 | 94 | 0.00 |
| 54 | T | 1,2-Dibromoethane | 0.469 | 0.477 | -1.7 | 98 | 0.00 |
| 55 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 93 | 0.00 |
| 56 | | 1,1,1,2-Tetrachloroethane | 0.499 | 0.504 | -1.0 | 98 | 0.00 |
| 57 | T | Chlorobenzene | 0.922 | 0.881 | 4.4 | 97 | 0.00 |
| 58 | T | Ethyl Benzene | 1.563 | 1.612 | -3.1 | 97 | 0.00 |
| 59 | T | m/p-Xylene | 1.253 | 1.292 | -3.1 | 99 | 0.00 |
| 60 | T | o-Xylene | 1.243 | 1.287 | -3.5 | 98 | 0.00 |
| 61 | T | Styrene | 0.558 | 0.615 | -10.2 | 98 | 0.00 |
| 62 | | Isopropylbenzene | 1.924 | 1.950 | -1.4 | 98 | 0.00 |
| 63 | T | 1,1,2,2-Tetrachloroethane | 0.795 | 0.779 | 2.0 | 97 | 0.00 |
| 64 | | n-propylbenzene | 0.486 | 0.488 | -0.4 | 97 | 0.00 |
| 65 | | tert-Butylbenzene | 1.753 | 1.761 | -0.5 | 98 | 0.00 |
| 66 | T | Benzyl Chloride | 0.109 | 0.114 | -4.6 | 92 | 0.00 |
| 67 | | sec-Butylbenzene | 2.414 | 2.414 | 0.0 | 98 | 0.00 |
| 68 | S | 1-Bromo-4-Fluorobenzene | 0.788 | 0.798 | -1.3 | 95 | 0.00 |
| 69 | | p-Isopropyltoluene | 1.988 | 1.997 | -0.5 | 97 | 0.00 |
| 70 | | n-Butylbenzene | 1.972 | 1.965 | 0.4 | 97 | 0.00 |
| 71 | | 2-Chlorotoluene | 1.423 | 1.457 | -2.4 | 98 | 0.00 |
| 72 | T | 4-Ethyltoluene | 1.487 | 1.524 | -2.5 | 97 | 0.00 |
| 73 | T | 1,3,5-Trimethylbenzene | 1.313 | 1.321 | -0.6 | 98 | 0.00 |
| 74 | T | 1,2,4-Trimethylbenzene | 1.422 | 1.415 | 0.5 | 98 | 0.00 |
| 75 | T | 1,3-Dichlorobenzene | 0.843 | 0.815 | 3.3 | 98 | 0.00 |
| 76 | T | 1,4-Dichlorobenzene | 0.825 | 0.797 | 3.4 | 97 | 0.00 |
| 77 | T | 1,2-Dichlorobenzene | 0.835 | 0.798 | 4.4 | 98 | 0.00 |
| 78 | T | Hexachloro-1,3-Butadiene | 0.686 | 0.612 | 10.8 | 97 | 0.00 |
| 79 | T | Naphthalene | 1.432 | 1.331 | 7.1 | 99 | 0.00 |
| 80 | T | Naphthalene,2-methyl- | 0.679 | 0.502 | 26.1 | 101 | 0.00 |
| 81 | T | 1,2,4-Trichlorobenzene | 0.699 | 0.633 | 9.4 | 99 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

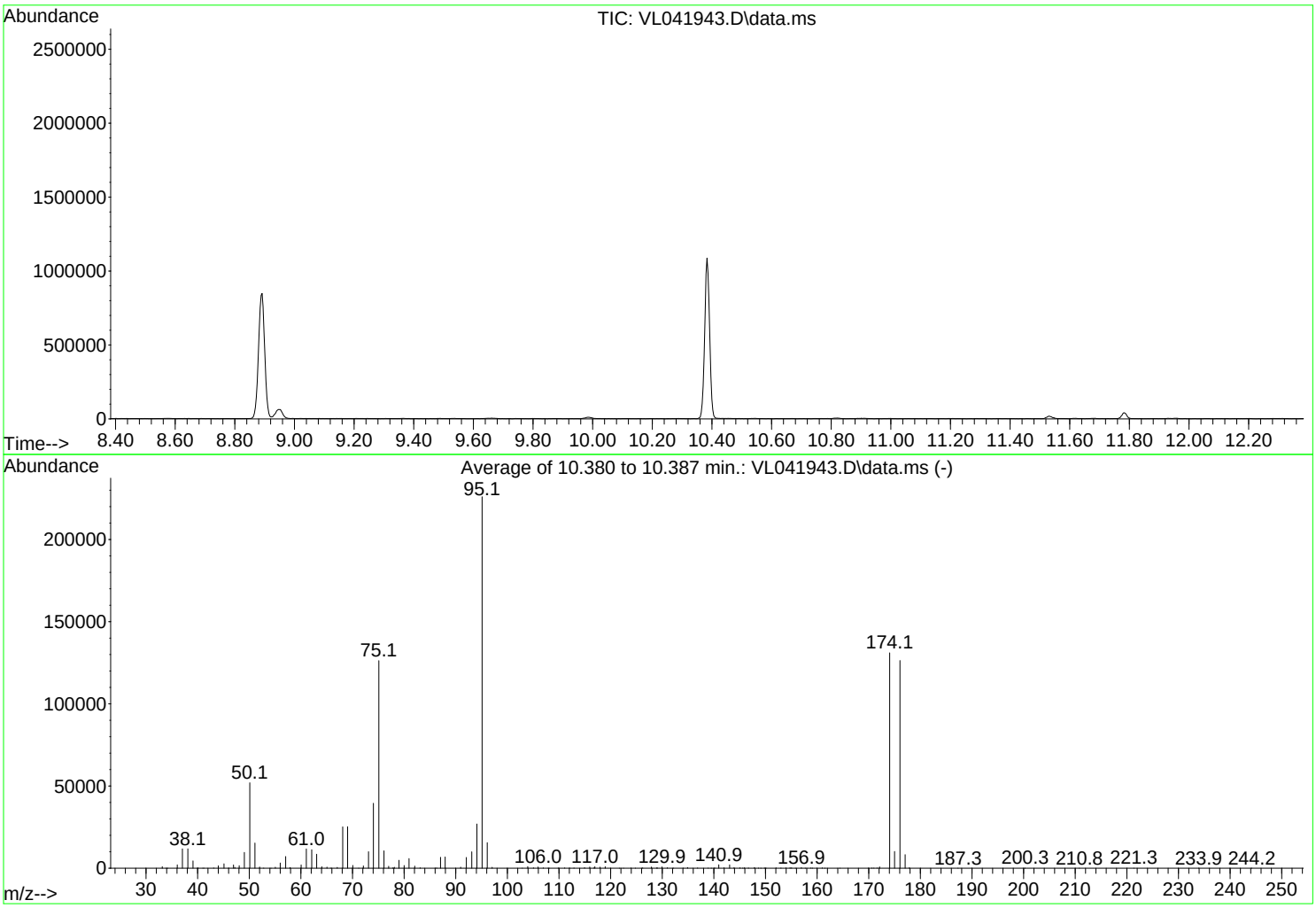
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
Data File : VL041943.D
Acq On : 27 Jan 2025 09:02
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Tue Jan 14 23:15:42 2025




AutoFind: Scans 3180, 3181, 3182; Background Corrected with Scan 3165

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 8 | 40 | 23.0 | 51995 | PASS |
| 75 | 95 | 30 | 66 | 55.9 | 126285 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 226027 | PASS |
| 96 | 95 | 5 | 9 | 6.9 | 15556 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 120 | 58.0 | 131061 | PASS |
| 175 | 174 | 4 | 9 | 7.8 | 10200 | PASS |
| 176 | 174 | 93 | 101 | 96.4 | 126352 | PASS |
| 177 | 176 | 5 | 9 | 6.5 | 8251 | PASS |

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
Data File : VL041944.D
Acq On : 27 Jan 2025 10:05
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 28 02:32:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 01/30/2025
Supervised By :Mahesh Dadoda 01/30/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.793 | 49 | 149075 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.972 | 114 | 415161 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.891 | 117 | 364534 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.387 | 95 | 290387 | 10.114 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 101.100% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.502 | 85 | 213119 | 10.496 | ppbv | 98 |
| 3) Chlorodifluoromethane | 1.479 | 51 | 227003 | 10.671 | ppbv | 100 |
| 4) Chloromethane | 1.534 | 50 | 82387 | 10.788 | ppbv | 98 |
| 5) Vinyl Chloride | 1.583 | 62 | 78132 | 10.101 | ppbv | 97 |
| 6) Bromomethane | 1.670 | 94 | 37894 | 10.279 | ppbv | 98 |
| 7) Chloroethane | 1.706 | 64 | 33025 | 10.973 | ppbv | 97 |
| 8) Dichlorotetrafluoroethane | 1.557 | 85 | 184435 | 10.393 | ppbv | 98 |
| 9) Propene | 1.486 | 41 | 90955 | 10.380 | ppbv | 95 |
| 10) Heptane | 4.994 | 43 | 258967 | 11.056 | ppbv | 98 |
| 11) Trichlorofluoromethane | 1.881 | 101 | 205801 | 9.743 | ppbv | 96 |
| 12) 1,1,2-Trichlorotrifluo... | 2.146 | 101 | 170817 | 10.318 | ppbv | 99 |
| 13) Ethanol | 1.725 | 45 | 4415 | 6.878 | ppbv | 94 |
| 14) Bromoethene | 1.787 | 108 | 58083 | 9.583 | ppbv | 96 |
| 15) Acetone | 1.839 | 43 | 169478 | 9.465 | ppbv | 99 |
| 16) 1,3-Butadiene | 1.612 | 39 | 84348 | 10.496 | ppbv | 100 |
| 17) tert-Butyl alcohol | 2.046 | 59 | 207930 | 9.435 | ppbv | 98 |
| 18) 1,1-Dichloroethene | 2.039 | 96 | 75629 | 10.136 | ppbv | 99 |
| 19) Isopropyl Alcohol | 1.890 | 45 | 96486 | 9.088 | ppbv | 95 |
| 20) Methylene Chloride | 2.065 | 84 | 64225 | 9.076 | ppbv | 98 |
| 21) Allyl Chloride | 2.101 | 41 | 129597 | 10.453 | ppbv | 98 |
| 22) trans-1,2-Dichloroethene | 2.347 | 96 | 87196 | 10.355 | ppbv | 97 |
| 23) Vinyl Acetate | 2.470 | 43 | 73473 | 8.278 | ppbv # | 95 |
| 24) 1,1-Dichloroethane | 2.415 | 63 | 168681 | 10.356 | ppbv | 99 |
| 25) Ethyl Acetate | 2.845 | 43 | 533237 | 11.044 | ppbv | 99 |
| 26) Hexane | 2.832 | 57 | 211315 | 11.066 | ppbv | 97 |
| 27) Carbon Disulfide | 2.156 | 76 | 205971 | 10.900 | ppbv | 97 |
| 28) Methyl tert-Butyl Ether | 2.447 | 73 | 111584 | 7.645 | ppbv | 100 |
| 29) Chloroform | 2.858 | 83 | 326439 | 10.814 | ppbv | 99 |
| 30) Cyclohexane | 3.871 | 84 | 176628 | 10.664 | ppbv | 100 |
| 31) cis-1,2-Dichloroethene | 2.729 | 61 | 205197 | 10.205 | ppbv | 93 |
| 32) 1,1,1-Trichloroethane | 3.379 | 97 | 312255 | 10.810 | ppbv | 99 |
| 34) 2-Butanone | 2.564 | 43 | 303997 | 11.514 | ppbv | 99 |
| 35) Carbon Tetrachloride | 3.774 | 117 | 316836 | 12.150 | ppbv | 99 |
| 36) Benzene | 3.667 | 78 | 432961 | 11.370 | ppbv | 97 |
| 37) 1,2-Dichloroethane | 3.227 | 62 | 240456 | 11.244 | ppbv | 99 |
| 38) Trichloroethene | 4.564 | 130 | 167416 | 11.079 | ppbv | 97 |
| 39) 1,2-Dichloropropane | 4.324 | 63 | 148143 | 11.091 | ppbv | 98 |
| 40) 1,4-Dioxane | 4.596 | 88 | 69928 | 10.367 | ppbv # | 99 |
| 41) Tetrahydrofuran | 3.065 | 42 | 170732 | 11.899 | ppbv | 99 |
| 42) Bromodichloromethane | 4.502 | 83 | 334591 | 11.669 | ppbv | 96 |
| 43) Methyl Methacrylate | 4.897 | 69 | 156013 | 11.029 | ppbv | 98 |
| 44) 2,2,4-Trimethylpentane | 4.655 | 57 | 717998 | 11.658 | ppbv | 99 |
| 45) t-1,3-Dichloropropene | 6.435 | 75 | 147450 | 11.136 | ppbv | 99 |

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
Data File : VL041944.D
Acq On : 27 Jan 2025 10:05
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 28 02:32:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 01/30/2025
Supervised By :Mahesh Dadoda 01/30/2025

| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 46) | cis-1,3-Dichloropropene | 5.619 | 75 | 202424 | 11.644 | ppbv | | 99 |
| 47) | 1,1,2-Trichloroethane | 6.597 | 97 | 164305 | 11.606 | ppbv | | 97 |
| 48) | Dibromochloromethane | 7.399 | 129 | 262942 | 12.038 | ppbv | | 100 |
| 49) | Bromoform | 9.493 | 173 | 216634 | 12.074 | ppbv | | 99 |
| 50) | 4-Methyl-2-Pentanone | 5.771 | 43 | 410655 | 11.394 | ppbv | | 100 |
| 51) | 2-Hexanone | 7.451 | 43 | 319063 | 11.521 | ppbv | # | 98 |
| 52) | Tetrachloroethene | 8.238 | 164 | 137364 | 10.404 | ppbv | | 98 |
| 53) | Toluene | 6.946 | 91 | 475146 | 11.456 | ppbv | | 99 |
| 54) | 1,2-Dibromoethane | 7.668 | 107 | 224086 | 11.514 | ppbv | | 94 |
| 56) | 1,1,1,2-Tetrachloroethane | 8.937 | 131 | 211703 | 11.640 | ppbv | | 99 |
| 57) | Chlorobenzene | 8.933 | 112 | 376929 | 11.210 | ppbv | | 97 |
| 58) | Ethyl Benzene | 9.364 | 91 | 655579 | 11.507 | ppbv | | 99 |
| 59) | m/p-Xylene | 9.561 | 91 | 1069261m | 23.416 | ppbv | | |
| 60) | o-Xylene | 9.972 | 91 | 536013 | 11.826 | ppbv | | 99 |
| 61) | Styrene | 9.882 | 104 | 240993 | 11.853 | ppbv | | 100 |
| 62) | Isopropylbenzene | 10.548 | 105 | 806301 | 11.496 | ppbv | | 100 |
| 63) | 1,1,2,2-Tetrachloroethane | 9.972 | 83 | 339396 | 11.718 | ppbv | | 99 |
| 64) | n-propylbenzene | 10.998 | 120 | 209670 | 11.831 | ppbv | | 98 |
| 65) | tert-Butylbenzene | 11.542 | 119 | 733219 | 11.472 | ppbv | | 100 |
| 66) | Benzyl Chloride | 11.626 | 91 | 42157 | 10.656 | ppbv | | 97 |
| 67) | sec-Butylbenzene | 11.778 | 105 | 1007276 | 11.445 | ppbv | | 100 |
| 69) | p-Isopropyltoluene | 11.937 | 119 | 838003 | 11.563 | ppbv | | 99 |
| 70) | n-Butylbenzene | 12.290 | 91 | 822628 | 11.445 | ppbv | | 100 |
| 71) | 2-Chlorotoluene | 10.911 | 91 | 593791 | 11.445 | ppbv | | 100 |
| 72) | 4-Ethyltoluene | 11.134 | 105 | 639849 | 11.802 | ppbv | | 99 |
| 73) | 1,3,5-Trimethylbenzene | 11.212 | 105 | 552715 | 11.544 | ppbv | | 94 |
| 74) | 1,2,4-Trimethylbenzene | 11.545 | 105 | 595508 | 11.485 | ppbv | | 96 |
| 75) | 1,3-Dichlorobenzene | 11.617 | 146 | 342543 | 11.149 | ppbv | | 99 |
| 76) | 1,4-Dichlorobenzene | 11.681 | 146 | 337079 | 11.213 | ppbv | | 99 |
| 77) | 1,2-Dichlorobenzene | 11.956 | 146 | 339752 | 11.157 | ppbv | | 99 |
| 78) | Hexachloro-1,3-Butadiene | 13.892 | 225 | 238004 | 9.523 | ppbv | | 99 |
| 79) | Naphthalene | 13.523 | 128 | 531745 | 10.186 | ppbv | | 99 |
| 80) | Naphthalene,2-methyl- | 14.468 | 142 | 172526 | 6.970 | ppbv | | 99 |
| 81) | 1,2,4-Trichlorobenzene | 13.452 | 180 | 242148 | 9.503 | ppbv | | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

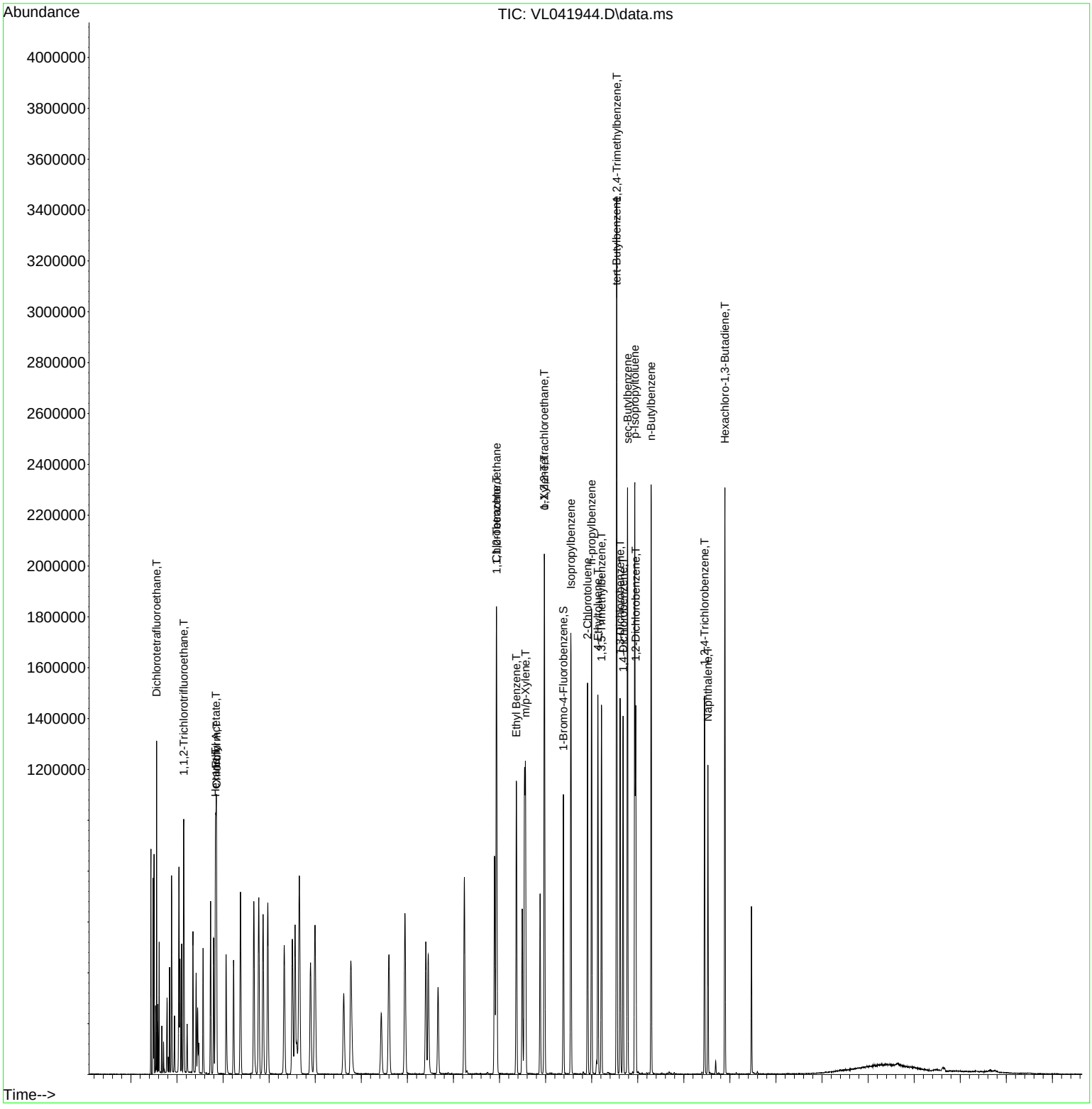
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
Data File : VL041944.D
Acq On : 27 Jan 2025 10:05
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 28 02:32:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 01/30/2025
Supervised By :Mahesh Dadoda 01/30/2025



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
Data File : VL041944.D
Acq On : 27 Jan 2025 10:05
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**LabSampleId :**
VSTDCCC010

Quant Time: Jan 28 02:32:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Bromochloromethane | 1.000 | 1.000 | 0.0 | 98 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 1.362 | 1.430 | -5.0 | 108 | 0.00 |
| 3 | | Chlorodifluoromethane | 1.427 | 1.523 | -6.7 | 112 | 0.00 |
| 4 | | Chloromethane | 0.512 | 0.553 | -8.0 | 110 | 0.00 |
| 5 | T | Vinyl Chloride | 0.519 | 0.524 | -1.0 | 110 | 0.00 |
| 6 | T | Bromomethane | 0.247 | 0.254 | -2.8 | 109 | 0.00 |
| 7 | | Chloroethane | 0.202 | 0.222 | -9.9 | 113 | 0.00 |
| 8 | T | Dichlorotetrafluoroethane | 1.190 | 1.237 | -3.9 | 111 | 0.00 |
| 9 | T | Propene | 0.588 | 0.610 | -3.7 | 105 | 0.00 |
| 10 | T | Heptane | 1.571 | 1.737 | -10.6 | 111 | 0.00 |
| 11 | T | Trichlorofluoromethane | 1.417 | 1.381 | 2.5 | 101 | 0.00 |
| 12 | T | 1,1,2-Trichlorotrifluoroeth | 1.110 | 1.146 | -3.2 | 106 | 0.00 |
| 13 | | Ethanol | 0.043 | 0.030# | 30.2# | 106 | 0.00 |
| 14 | T | Bromoethene | 0.407 | 0.390 | 4.2 | 103 | 0.00 |
| 15 | T | Acetone | 1.201 | 1.137 | 5.3 | 112 | 0.00 |
| 16 | T | 1,3-Butadiene | 0.539 | 0.566 | -5.0 | 112 | 0.00 |
| 17 | | tert-Butyl alcohol | 1.478 | 1.395 | 5.6 | 98 | 0.00 |
| 18 | T | 1,1-Dichloroethene | 0.501 | 0.507 | -1.2 | 108 | 0.00 |
| 19 | T | Isopropyl Alcohol | 0.712 | 0.647 | 9.1 | 102 | 0.00 |
| 20 | T | Methylene Chloride | 0.475 | 0.431 | 9.3 | 108 | 0.00 |
| 21 | T | Allyl Chloride | 0.832 | 0.869 | -4.4 | 107 | 0.00 |
| 22 | T | trans-1,2-Dichloroethene | 0.565 | 0.585 | -3.5 | 106 | 0.00 |
| 23 | T | Vinyl Acetate | 0.595 | 0.493 | 17.1 | 90 | 0.00 |
| 24 | T | 1,1-Dichloroethane | 1.093 | 1.132 | -3.6 | 109 | 0.00 |
| 25 | T | Ethyl Acetate | 3.239 | 3.577 | -10.4 | 113 | 0.00 |
| 26 | T | Hexane | 1.281 | 1.418 | -10.7 | 110 | 0.00 |
| 27 | T | Carbon Disulfide | 1.268 | 1.382 | -9.0 | 108 | 0.00 |
| 28 | T | Methyl tert-Butyl Ether | 0.979 | 0.749 | 23.5 | 95 | 0.00 |
| 29 | T | Chloroform | 2.025 | 2.190 | -8.1 | 112 | 0.00 |
| 30 | T | Cyclohexane | 1.111 | 1.185 | -6.7 | 107 | 0.00 |
| 31 | T | cis-1,2-Dichloroethene | 1.349 | 1.376 | -2.0 | 106 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 1.938 | 2.095 | -8.1 | 108 | 0.00 |
| 33 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 92 | 0.00 |
| 34 | T | 2-Butanone | 0.636 | 0.732 | -15.1 | 112 | 0.00 |
| 35 | T | Carbon Tetrachloride | 0.628 | 0.763 | -21.5 | 109 | 0.00 |
| 36 | T | Benzene | 0.917 | 1.043 | -13.7 | 109 | 0.00 |
| 37 | T | 1,2-Dichloroethane | 0.515 | 0.579 | -12.4 | 109 | 0.00 |
| 38 | T | Trichloroethene | 0.364 | 0.403 | -10.7 | 105 | 0.00 |
| 39 | T | 1,2-Dichloropropane | 0.322 | 0.357 | -10.9 | 108 | 0.00 |
| 40 | T | 1,4-Dioxane | 0.162 | 0.168 | -3.7 | 106 | 0.00 |
| 41 | T | Tetrahydrofuran | 0.346 | 0.411 | -18.8 | 109 | 0.00 |
| 42 | T | Bromodichloromethane | 0.691 | 0.806 | -16.6 | 109 | 0.00 |
| 43 | | Methyl Methacrylate | 0.341 | 0.376 | -10.3 | 103 | 0.00 |
| 44 | T | 2,2,4-Trimethylpentane | 1.484 | 1.729 | -16.5 | 110 | 0.00 |
| 45 | T | t-1,3-Dichloropropene | 0.319 | 0.355 | -11.3 | 97 | 0.00 |
| 46 | T | cis-1,3-Dichloropropene | 0.419 | 0.488 | -16.5 | 101 | 0.00 |
| 47 | T | 1,1,2-Trichloroethane | 0.341 | 0.396 | -16.1 | 110 | 0.00 |
| 48 | T | Dibromochloromethane | 0.526 | 0.633 | -20.3 | 107 | 0.00 |

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
Data File : VL041944.D
Acq On : 27 Jan 2025 10:05
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_L
**LabSampleId :** VSTDCCC010

Quant Time: Jan 28 02:32:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | Bromoform | 0.432 | 0.522 | -20.8 | 105 | 0.00 |
| 50 | T | 4-Methyl-2-Pentanone | 0.868 | 0.989 | -13.9 | 110 | 0.00 |
| 51 | T | 2-Hexanone | 0.667 | 0.769 | -15.3 | 109 | 0.00 |
| 52 | T | Tetrachloroethene | 0.318 | 0.331 | -4.1 | 105 | 0.00 |
| 53 | T | Toluene | 0.999 | 1.144 | -14.5 | 105 | 0.00 |
| 54 | T | 1,2-Dibromoethane | 0.469 | 0.540 | -15.1 | 110 | 0.00 |
| 55 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 91 | 0.00 |
| 56 | | 1,1,1,2-Tetrachloroethane | 0.499 | 0.581 | -16.4 | 110 | 0.00 |
| 57 | T | Chlorobenzene | 0.922 | 1.034 | -12.1 | 111 | 0.00 |
| 58 | T | Ethyl Benzene | 1.563 | 1.798 | -15.0 | 106 | 0.00 |
| 59 | T | m/p-Xylene | 1.253 | 1.467 | -17.1 | 109 | 0.00 |
| 60 | T | o-Xylene | 1.243 | 1.470 | -18.3 | 109 | 0.00 |
| 61 | T | Styrene | 0.558 | 0.661 | -18.5 | 103 | 0.00 |
| 62 | | Isopropylbenzene | 1.924 | 2.212 | -15.0 | 109 | 0.00 |
| 63 | T | 1,1,2,2-Tetrachloroethane | 0.795 | 0.931 | -17.1 | 113 | 0.00 |
| 64 | | n-propylbenzene | 0.486 | 0.575 | -18.3 | 112 | 0.00 |
| 65 | | tert-Butylbenzene | 1.753 | 2.011 | -14.7 | 109 | 0.00 |
| 66 | T | Benzyl Chloride | 0.109 | 0.116 | -6.4 | 92 | 0.00 |
| 67 | | sec-Butylbenzene | 2.414 | 2.763 | -14.5 | 109 | 0.00 |
| 68 | S | 1-Bromo-4-Fluorobenzene | 0.788 | 0.797 | -1.1 | 93 | 0.00 |
| 69 | | p-Isopropyltoluene | 1.988 | 2.299 | -15.6 | 109 | 0.00 |
| 70 | | n-Butylbenzene | 1.972 | 2.257 | -14.5 | 108 | 0.00 |
| 71 | | 2-Chlorotoluene | 1.423 | 1.629 | -14.5 | 107 | 0.00 |
| 72 | T | 4-Ethyltoluene | 1.487 | 1.755 | -18.0 | 109 | 0.00 |
| 73 | T | 1,3,5-Trimethylbenzene | 1.313 | 1.516 | -15.5 | 109 | 0.00 |
| 74 | T | 1,2,4-Trimethylbenzene | 1.422 | 1.634 | -14.9 | 111 | 0.00 |
| 75 | T | 1,3-Dichlorobenzene | 0.843 | 0.940 | -11.5 | 110 | 0.00 |
| 76 | T | 1,4-Dichlorobenzene | 0.825 | 0.925 | -12.1 | 110 | 0.00 |
| 77 | T | 1,2-Dichlorobenzene | 0.835 | 0.932 | -11.6 | 112 | 0.00 |
| 78 | T | Hexachloro-1,3-Butadiene | 0.686 | 0.653 | 4.8 | 102 | 0.00 |
| 79 | T | Naphthalene | 1.432 | 1.459 | -1.9 | 106 | 0.00 |
| 80 | T | Naphthalene,2-methyl- | 0.679 | 0.473 | 30.3# | 93 | 0.00 |
| 81 | T | 1,2,4-Trichlorobenzene | 0.699 | 0.664 | 5.0 | 101 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
Data File : VL041946.D
Acq On : 27 Jan 2025 11:17
Operator : SY/MD
Sample : VL0127ABL02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0127ABL02

Quant Time: Jan 28 02:34:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

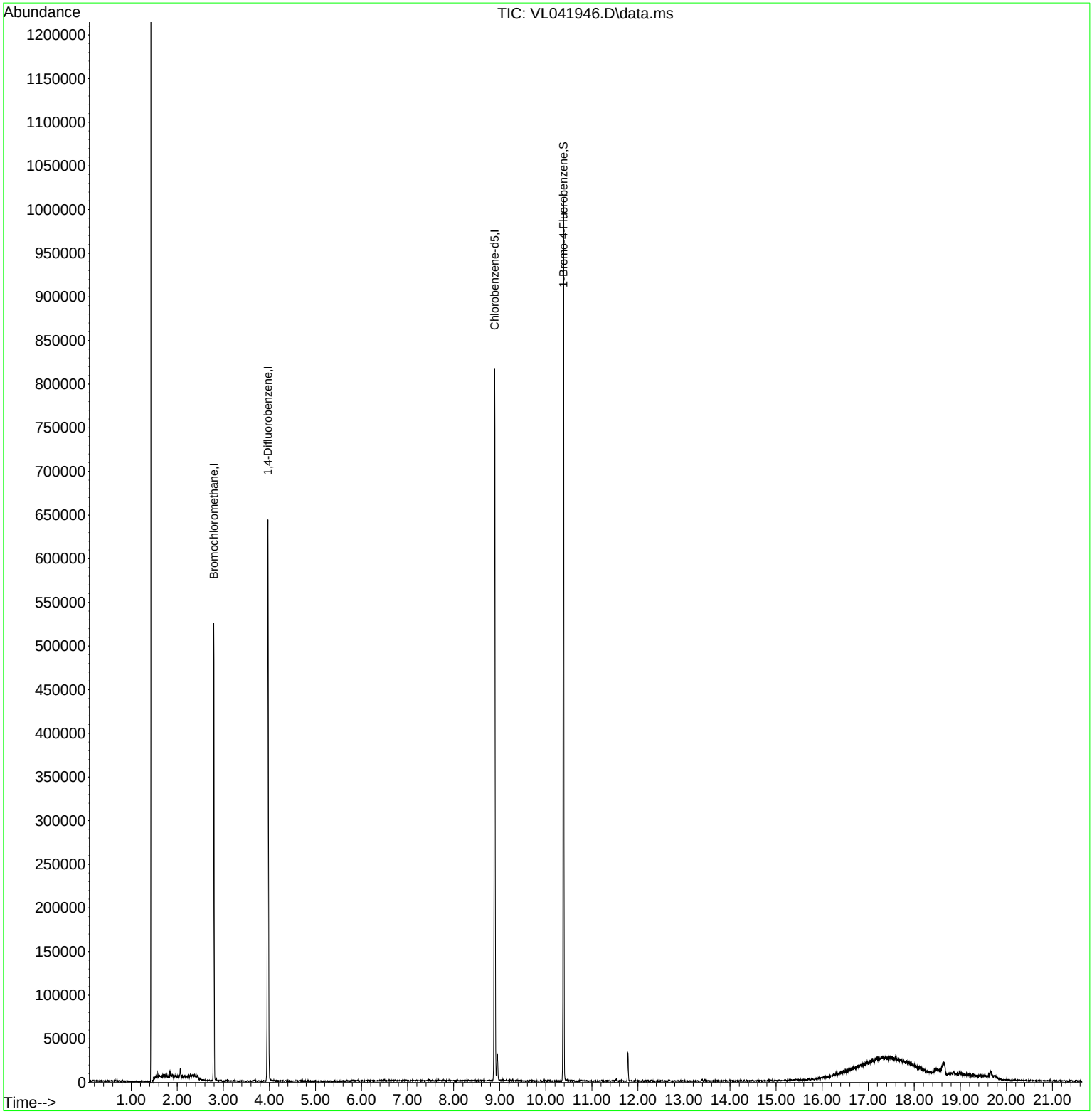
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.794 | 49 | 142661 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.968 | 114 | 386765 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.888 | 117 | 337301 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.383 | 95 | 257049 | 9.675 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 96.800% | | | |
| Target Compounds | | | | | | Qvalue |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
Data File : VL041946.D
Acq On : 27 Jan 2025 11:17
Operator : SY/MD
Sample : VL0127ABL02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0127ABL02

Quant Time: Jan 28 02:34:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
Data File : VL041947.D
Acq On : 27 Jan 2025 12:19
Operator : SY/MD
Sample : VL0127ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 28 02:34:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0127ABS01

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 01/30/2025
Supervised By :Mahesh Dadoda 01/30/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) Bromochloromethane | 2.797 | 49 | 143025 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.975 | 114 | 399567 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.895 | 117 | 348759 | 10.000 | ppbv | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.390 | 95 | 276515 | 10.066 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 100.700% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.502 | 85 | 206901 | 10.620 | ppbv | | 99 |
| 3) Chlorodifluoromethane | 1.480 | 51 | 214338 | 10.502 | ppbv | | 99 |
| 4) Chloromethane | 1.538 | 50 | 76820 | 10.485 | ppbv | | 96 |
| 5) Vinyl Chloride | 1.583 | 62 | 76382 | 10.292 | ppbv | | 97 |
| 6) Bromomethane | 1.671 | 94 | 35162 | 9.941 | ppbv | | 96 |
| 7) Chloroethane | 1.709 | 64 | 30210 | 10.463 | ppbv | | 98 |
| 8) Dichlorotetrafluoroethane | 1.557 | 85 | 172692 | 10.143 | ppbv | | 100 |
| 9) Propene | 1.486 | 41 | 86511 | 10.290 | ppbv | | 97 |
| 10) Heptane | 4.998 | 43 | 253457 | 11.279 | ppbv | | 98 |
| 11) Trichlorofluoromethane | 1.884 | 101 | 197641 | 9.753 | ppbv | | 98 |
| 12) 1,1,2-Trichlorotrifluo... | 2.146 | 101 | 156498 | 9.853 | ppbv | | 98 |
| 13) Ethanol | 1.729 | 45 | 4346 | 7.057 | ppbv | | 90 |
| 14) Bromoethene | 1.787 | 108 | 57049 | 9.810 | ppbv | | 99 |
| 15) Acetone | 1.842 | 43 | 158965 | 9.254 | ppbv | | 99 |
| 16) 1,3-Butadiene | 1.612 | 39 | 83092 | 10.777 | ppbv | | 97 |
| 17) tert-Butyl alcohol | 2.049 | 59 | 194278 | 9.189 | ppbv | | 98 |
| 18) 1,1-Dichloroethene | 2.040 | 96 | 69693 | 9.736 | ppbv | | 96 |
| 19) Isopropyl Alcohol | 1.894 | 45 | 92836 | 9.115 | ppbv | | 94 |
| 20) Methylene Chloride | 2.069 | 84 | 60388 | 8.895 | ppbv | | 95 |
| 21) Allyl Chloride | 2.104 | 41 | 116571 | 9.800 | ppbv | | 99 |
| 22) trans-1,2-Dichloroethene | 2.347 | 96 | 81007 | 10.027 | ppbv | | 97 |
| 23) Vinyl Acetate | 2.470 | 43 | 79222 | 9.304 | ppbv | # | 96 |
| 24) 1,1-Dichloroethane | 2.418 | 63 | 162663 | 10.409 | ppbv | | 99 |
| 25) Ethyl Acetate | 2.849 | 43 | 513887 | 11.094 | ppbv | | 99 |
| 26) Hexane | 2.836 | 57 | 200961 | 10.969 | ppbv | | 95 |
| 27) Carbon Disulfide | 2.156 | 76 | 192704 | 10.629 | ppbv | | 99 |
| 28) Methyl tert-Butyl Ether | 2.451 | 73 | 124946 | 8.923 | ppbv | | 99 |
| 29) Chloroform | 2.858 | 83 | 315137 | 10.881 | ppbv | | 97 |
| 30) Cyclohexane | 3.872 | 84 | 171665 | 10.802 | ppbv | | 100 |
| 31) cis-1,2-Dichloroethene | 2.732 | 61 | 198570 | 10.293 | ppbv | | 92 |
| 32) 1,1,1-Trichloroethane | 3.380 | 97 | 299609 | 10.811 | ppbv | | 99 |
| 34) 2-Butanone | 2.567 | 43 | 290154 | 11.419 | ppbv | | 99 |
| 35) Carbon Tetrachloride | 3.778 | 117 | 308983 | 12.311 | ppbv | | 98 |
| 36) Benzene | 3.671 | 78 | 414621 | 11.314 | ppbv | | 99 |
| 37) 1,2-Dichloroethane | 3.231 | 62 | 230482 | 11.198 | ppbv | | 99 |
| 38) Trichloroethene | 4.567 | 130 | 164755 | 11.329 | ppbv | | 95 |
| 39) 1,2-Dichloropropane | 4.334 | 63 | 143940 | 11.197 | ppbv | | 97 |
| 40) 1,4-Dioxane | 4.606 | 88 | 69223 | 10.663 | ppbv | # | 97 |
| 41) Tetrahydrofuran | 3.069 | 42 | 160711 | 11.637 | ppbv | | 99 |
| 42) Bromodichloromethane | 4.509 | 83 | 328091 | 11.889 | ppbv | | 95 |
| 43) Methyl Methacrylate | 4.901 | 69 | 156642 | 11.506 | ppbv | | 99 |
| 44) 2,2,4-Trimethylpentane | 4.661 | 57 | 691648 | 11.668 | ppbv | | 99 |
| 45) t-1,3-Dichloropropene | 6.435 | 75 | 146256 | 11.477 | ppbv | | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
Data File : VL041947.D
Acq On : 27 Jan 2025 12:19
Operator : SY/MD
Sample : VL0127ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 28 02:34:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0127ABS01

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 01/30/2025
Supervised By :Mahesh Dadoda 01/30/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.626 | 75 | 197114 | 11.781 | ppbv | | 100 |
| 47) 1,1,2-Trichloroethane | 6.607 | 97 | 162420 | 11.921 | ppbv | | 96 |
| 48) Dibromochloromethane | 7.406 | 129 | 248197 | 11.806 | ppbv | | 99 |
| 49) Bromoform | 9.497 | 173 | 205170 | 11.881 | ppbv | | 99 |
| 50) 4-Methyl-2-Pentanone | 5.778 | 43 | 396687 | 11.436 | ppbv | | 100 |
| 51) 2-Hexanone | 7.461 | 43 | 320223 | 12.014 | ppbv | # | 97 |
| 52) Tetrachloroethene | 8.238 | 164 | 137187 | 10.796 | ppbv | | 95 |
| 53) Toluene | 6.953 | 91 | 467674 | 11.715 | ppbv | | 100 |
| 54) 1,2-Dibromoethane | 7.671 | 107 | 215083 | 11.483 | ppbv | | 99 |
| 56) 1,1,1,2-Tetrachloroethane | 8.940 | 131 | 206531 | 11.870 | ppbv | | 100 |
| 57) Chlorobenzene | 8.937 | 112 | 373904 | 11.623 | ppbv | | 97 |
| 58) Ethyl Benzene | 9.371 | 91 | 647487 | 11.880 | ppbv | | 96 |
| 59) m/p-Xylene | 9.545 | 91 | 1065769m | 24.395 | ppbv | | |
| 60) o-Xylene | 9.979 | 91 | 529149 | 12.203 | ppbv | | 99 |
| 61) Styrene | 9.885 | 104 | 243068 | 12.495 | ppbv | | 99 |
| 62) Isopropylbenzene | 10.552 | 105 | 793281 | 11.822 | ppbv | | 100 |
| 63) 1,1,2,2-Tetrachloroethane | 9.976 | 83 | 323789 | 11.685 | ppbv | | 99 |
| 64) n-propylbenzene | 11.002 | 120 | 206392 | 12.173 | ppbv | | 99 |
| 65) tert-Butylbenzene | 11.542 | 119 | 702412 | 11.487 | ppbv | | 99 |
| 66) Benzyl Chloride | 11.627 | 91 | 39829 | 10.523 | ppbv | | 99 |
| 67) sec-Butylbenzene | 11.779 | 105 | 980787 | 11.648 | ppbv | | 100 |
| 69) p-Isopropyltoluene | 11.937 | 119 | 813693 | 11.735 | ppbv | | 100 |
| 70) n-Butylbenzene | 12.293 | 91 | 802930 | 11.677 | ppbv | | 99 |
| 71) 2-Chlorotoluene | 10.914 | 91 | 587822 | 11.843 | ppbv | | 100 |
| 72) 4-Ethyltoluene | 11.138 | 105 | 644084 | 12.417 | ppbv | | 99 |
| 73) 1,3,5-Trimethylbenzene | 11.215 | 105 | 543491 | 11.865 | ppbv | | 96 |
| 74) 1,2,4-Trimethylbenzene | 11.549 | 105 | 591073 | 11.915 | ppbv | | 95 |
| 75) 1,3-Dichlorobenzene | 11.620 | 146 | 342442 | 11.649 | ppbv | | 99 |
| 76) 1,4-Dichlorobenzene | 11.682 | 146 | 338784 | 11.780 | ppbv | | 99 |
| 77) 1,2-Dichlorobenzene | 11.960 | 146 | 327583 | 11.244 | ppbv | | 100 |
| 78) Hexachloro-1,3-Butadiene | 13.895 | 225 | 217546 | 9.098 | ppbv | | 99 |
| 79) Naphthalene | 13.526 | 128 | 498588 | 9.982 | ppbv | | 99 |
| 80) Naphthalene,2-methyl- | 14.472 | 142 | 203477 | 8.593 | ppbv | | 97 |
| 81) 1,2,4-Trichlorobenzene | 13.452 | 180 | 220567 | 9.047 | ppbv | | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

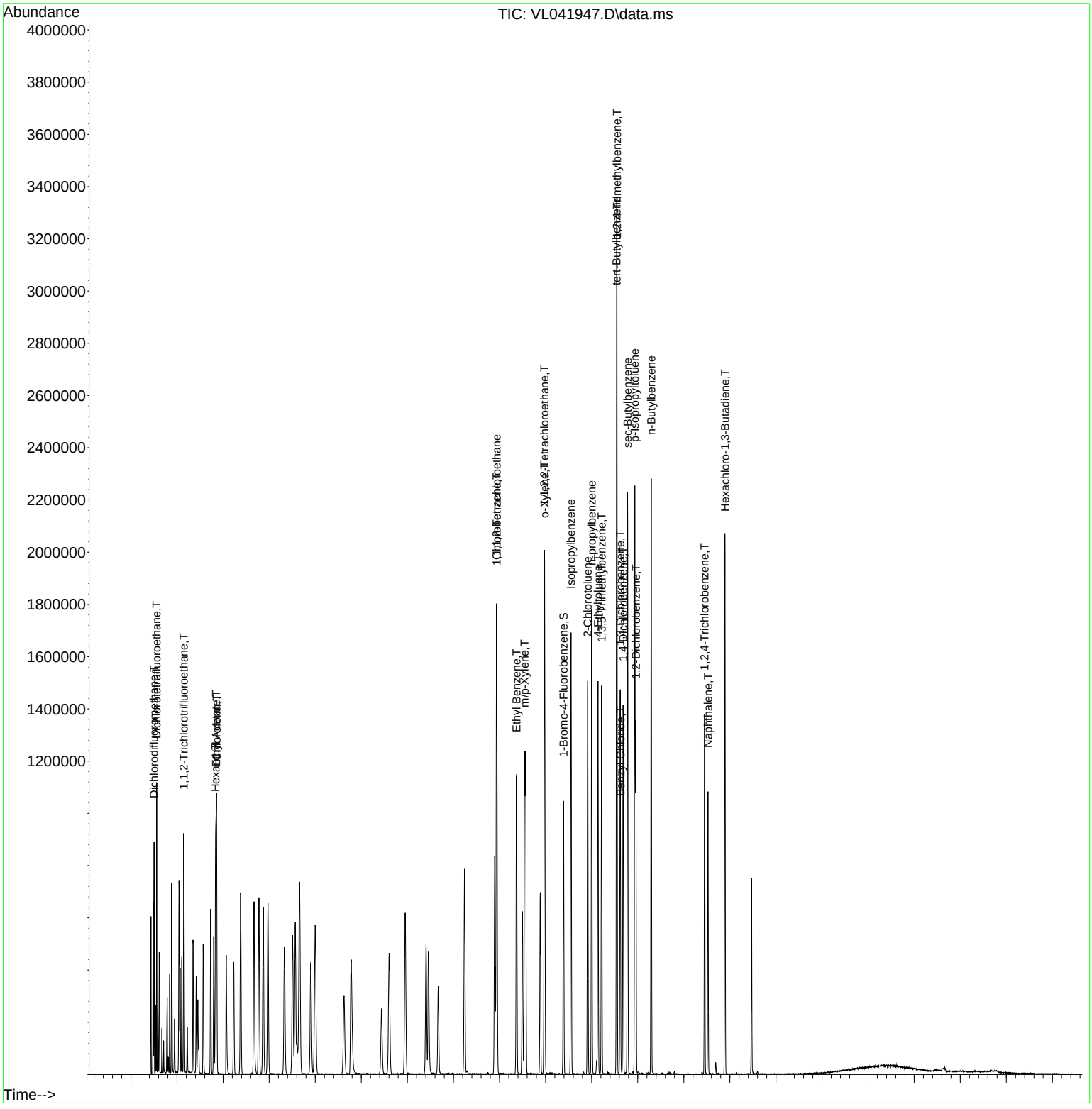
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
Data File : VL041947.D
Acq On : 27 Jan 2025 12:19
Operator : SY/MD
Sample : VL0127ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 28 02:34:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0127ABS01

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 01/30/2025
Supervised By :Mahesh Dadoda 01/30/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
Data File : VL041954.D
Acq On : 27 Jan 2025 16:11
Operator : SY/MD
Sample : QC012125 CAN 10268
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
QC012125 CAN 10268

Quant Time: Jan 28 02:39:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

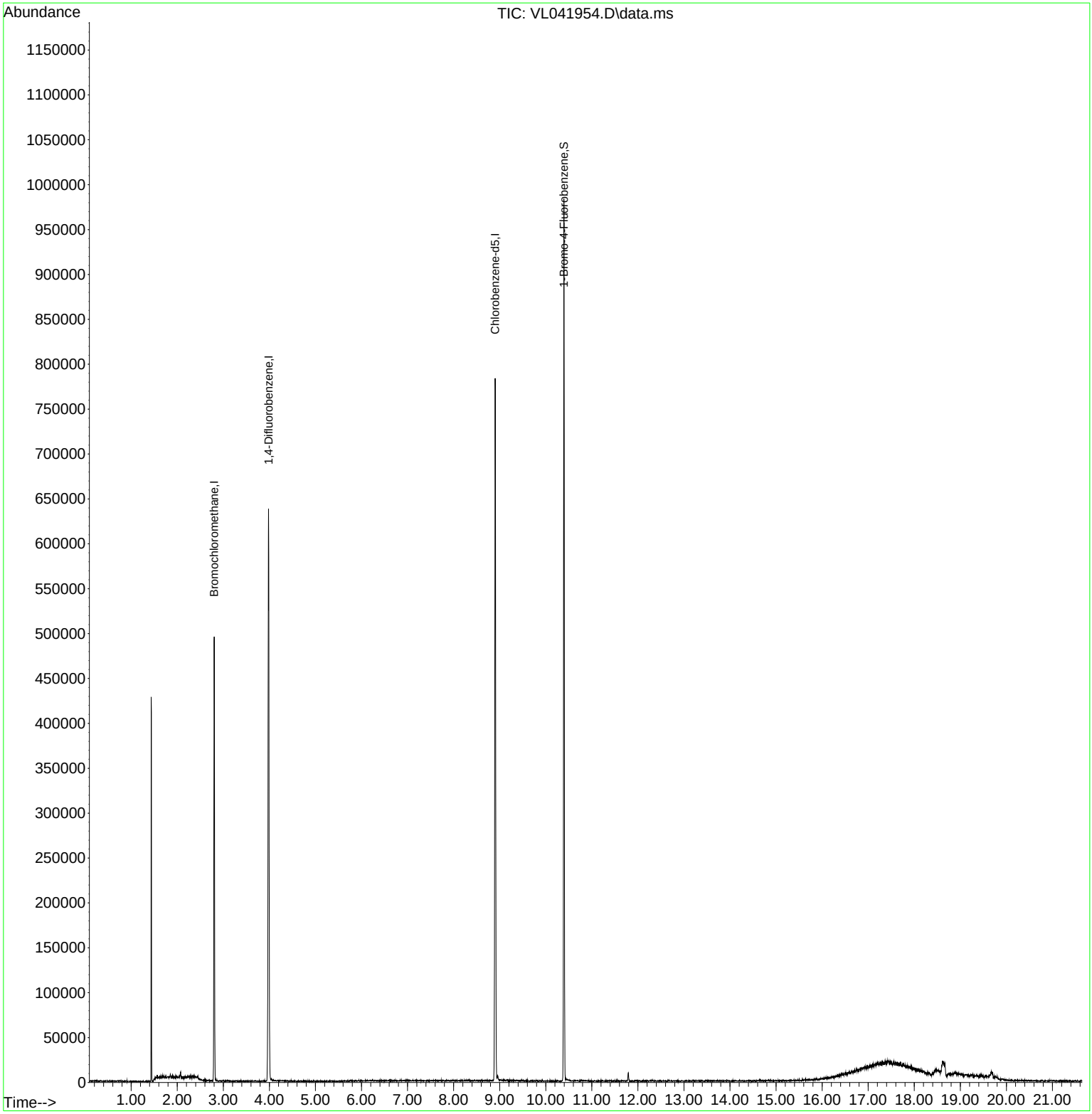
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.800 | 49 | 136962 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.982 | 114 | 367356 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.901 | 117 | 317099 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.393 | 95 | 238739 | 9.559 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 95.600% | | | |
| Target Compounds | | | | | | Qvalue |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
Data File : VL041954.D
Acq On : 27 Jan 2025 16:11
Operator : SY/MD
Sample : QC012125 CAN 10268
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
QC012125 CAN 10268

Quant Time: Jan 28 02:39:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration



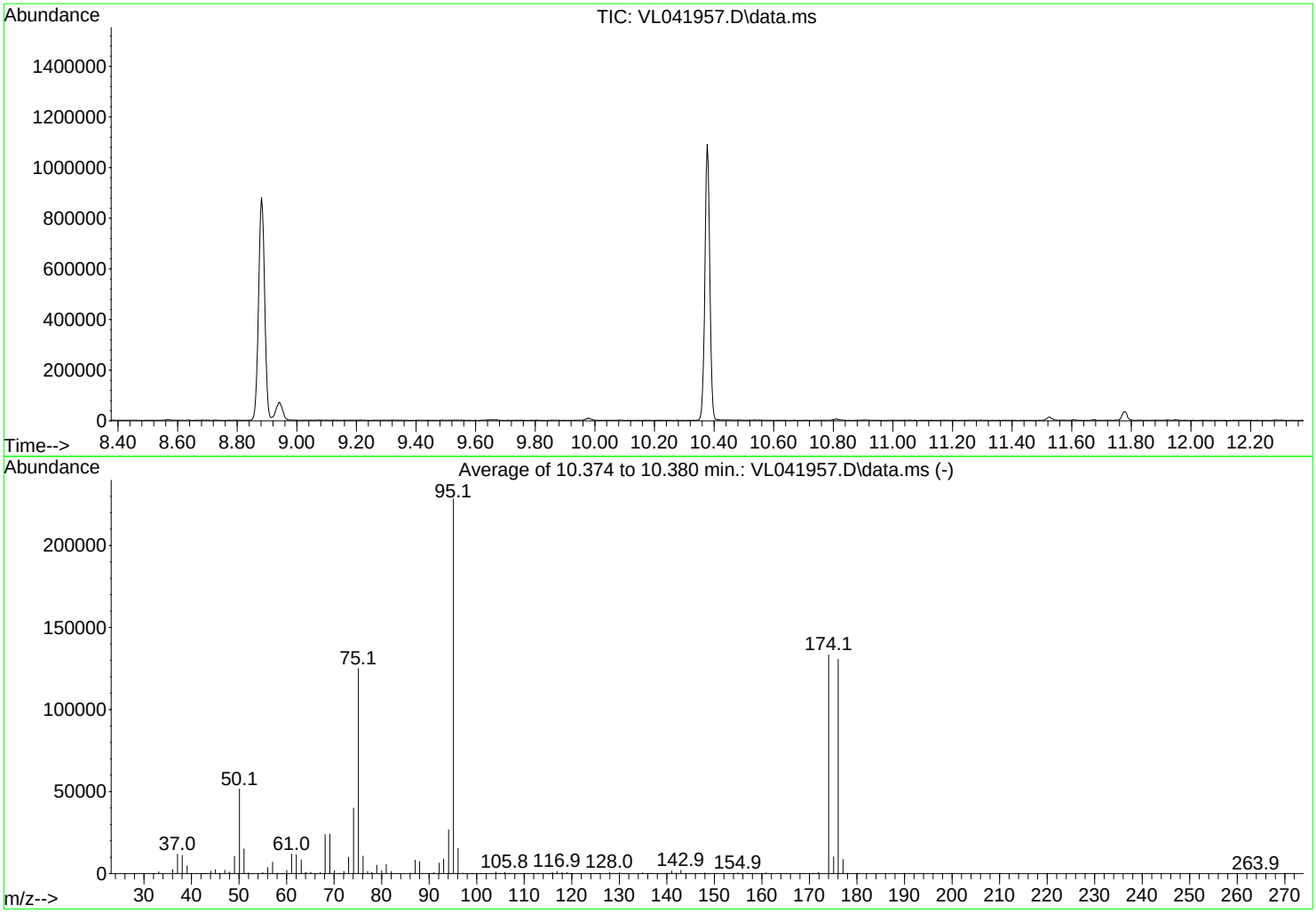
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041957.D
Acq On : 03 Feb 2025 09:47
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Tue Jan 14 23:15:42 2025




AutoFind: Scans 3178, 3179, 3180; Background Corrected with Scan 3165

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 8 | 40 | 22.6 | 51539 | PASS |
| 75 | 95 | 30 | 66 | 54.7 | 125019 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 228352 | PASS |
| 96 | 95 | 5 | 9 | 6.8 | 15439 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 120 | 58.4 | 133352 | PASS |
| 175 | 174 | 4 | 9 | 7.7 | 10244 | PASS |
| 176 | 174 | 93 | 101 | 98.0 | 130661 | PASS |
| 177 | 176 | 5 | 9 | 6.6 | 8641 | PASS |

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041958.D
Acq On : 03 Feb 2025 10:48
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 04 02:30:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.791 | 49 | 157470 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.962 | 114 | 429487 | 10.000 | ppbv | -0.01 |
| 55) Chlorobenzene-d5 | 8.885 | 117 | 371333 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.381 | 95 | 289698 | 9.905 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 99.100% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.499 | 85 | 218366 | 10.181 | ppbv | 100 |
| 3) Chlorodifluoromethane | 1.477 | 51 | 231387 | 10.298 | ppbv | 99 |
| 4) Chloromethane | 1.535 | 50 | 86482 | 10.721 | ppbv | 97 |
| 5) Vinyl Chloride | 1.580 | 62 | 83248 | 10.188 | ppbv | 98 |
| 6) Bromomethane | 1.667 | 94 | 38248 | 9.822 | ppbv | 99 |
| 7) Chloroethane | 1.706 | 64 | 34164 | 10.747 | ppbv | 99 |
| 8) Dichlorotetrafluoroethane | 1.554 | 85 | 186350 | 9.941 | ppbv | 99 |
| 9) Propene | 1.483 | 41 | 95902 | 10.361 | ppbv | 98 |
| 10) Heptane | 4.985 | 43 | 266975 | 10.790 | ppbv | 97 |
| 11) Trichlorofluoromethane | 1.878 | 101 | 212261 | 9.513 | ppbv | 97 |
| 12) 1,1,2-Trichlorotrifluo... | 2.140 | 101 | 162930 | 9.317 | ppbv | 99 |
| 13) Ethanol | 1.722 | 45 | 4416 | 6.513 | ppbv | 99 |
| 14) Bromoethene | 1.784 | 108 | 60620 | 9.468 | ppbv | 100 |
| 15) Acetone | 1.836 | 43 | 176459 | 9.330 | ppbv | 99 |
| 16) 1,3-Butadiene | 1.609 | 39 | 86792 | 10.224 | ppbv | 99 |
| 17) tert-Butyl alcohol | 2.043 | 59 | 206522 | 8.872 | ppbv | 99 |
| 18) 1,1-Dichloroethene | 2.036 | 96 | 74437 | 9.444 | ppbv | 93 |
| 19) Isopropyl Alcohol | 1.888 | 45 | 101008 | 9.007 | ppbv | 94 |
| 20) Methylene Chloride | 2.062 | 84 | 62977 | 8.426 | ppbv | 95 |
| 21) Allyl Chloride | 2.098 | 41 | 126741 | 9.677 | ppbv | 98 |
| 22) trans-1,2-Dichloroethene | 2.344 | 96 | 86281 | 9.700 | ppbv | 97 |
| 23) Vinyl Acetate | 2.467 | 43 | 84390 | 9.001 | ppbv # | 98 |
| 24) 1,1-Dichloroethane | 2.412 | 63 | 171515 | 9.969 | ppbv | 100 |
| 25) Ethyl Acetate | 2.839 | 43 | 552271 | 10.829 | ppbv | 100 |
| 26) Hexane | 2.829 | 57 | 216097 | 10.713 | ppbv | 95 |
| 27) Carbon Disulfide | 2.153 | 76 | 200432 | 10.041 | ppbv | 99 |
| 28) Methyl tert-Butyl Ether | 2.444 | 73 | 149839 | 9.719 | ppbv | 100 |
| 29) Chloroform | 2.852 | 83 | 333879 | 10.471 | ppbv | 100 |
| 30) Cyclohexane | 3.862 | 84 | 183180 | 10.470 | ppbv | 98 |
| 31) cis-1,2-Dichloroethene | 2.723 | 61 | 208686 | 9.825 | ppbv | 95 |
| 32) 1,1,1-Trichloroethane | 3.370 | 97 | 318650 | 10.444 | ppbv | 99 |
| 34) 2-Butanone | 2.561 | 43 | 312946 | 11.458 | ppbv | 99 |
| 35) Carbon Tetrachloride | 3.765 | 117 | 320703 | 11.888 | ppbv | 99 |
| 36) Benzene | 3.661 | 78 | 444350 | 11.280 | ppbv | 97 |
| 37) 1,2-Dichloroethane | 3.221 | 62 | 241263 | 10.905 | ppbv | 99 |
| 38) Trichloroethene | 4.551 | 130 | 175365 | 11.218 | ppbv | 90 |
| 39) 1,2-Dichloropropane | 4.322 | 63 | 155514 | 11.255 | ppbv | 98 |
| 40) 1,4-Dioxane | 4.590 | 88 | 74675 | 10.701 | ppbv # | 97 |
| 41) Tetrahydrofuran | 3.059 | 42 | 174208 | 11.736 | ppbv | 98 |
| 42) Bromodichloromethane | 4.496 | 83 | 344670 | 11.620 | ppbv | 96 |
| 43) Methyl Methacrylate | 4.888 | 69 | 156216 | 10.675 | ppbv | 95 |
| 44) 2,2,4-Trimethylpentane | 4.645 | 57 | 751181 | 11.790 | ppbv | 99 |
| 45) t-1,3-Dichloropropene | 6.425 | 75 | 148089 | 10.811 | ppbv | 98 |

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041958.D
Acq On : 03 Feb 2025 10:48
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 04 02:30:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 46) | cis-1,3-Dichloropropene | 5.610 | 75 | 202762 | 11.274 | ppbv | | 99 |
| 47) | 1,1,2-Trichloroethane | 6.590 | 97 | 167097 | 11.410 | ppbv | | 98 |
| 48) | Dibromochloromethane | 7.393 | 129 | 269437 | 11.924 | ppbv | | 99 |
| 49) | Bromoform | 9.487 | 173 | 225054 | 12.125 | ppbv | | 100 |
| 50) | 4-Methyl-2-Pentanone | 5.762 | 43 | 428753 | 11.499 | ppbv | | 98 |
| 51) | 2-Hexanone | 7.445 | 43 | 336693 | 11.752 | ppbv | # | 96 |
| 52) | Tetrachloroethene | 8.231 | 164 | 139466 | 10.211 | ppbv | | 95 |
| 53) | Toluene | 6.940 | 91 | 483814 | 11.275 | ppbv | | 100 |
| 54) | 1,2-Dibromoethane | 7.659 | 107 | 229203 | 11.384 | ppbv | | 97 |
| 56) | 1,1,1,2-Tetrachloroethane | 8.931 | 131 | 220185 | 11.885 | ppbv | | 99 |
| 57) | Chlorobenzene | 8.927 | 112 | 386374 | 11.280 | ppbv | | 98 |
| 58) | Ethyl Benzene | 9.358 | 91 | 669174 | 11.531 | ppbv | | 97 |
| 59) | m/p-Xylene | 9.555 | 91 | 1106231m | 23.782 | ppbv | | |
| 60) | o-Xylene | 9.969 | 91 | 555194 | 12.025 | ppbv | | 98 |
| 61) | Styrene | 9.876 | 104 | 246355 | 11.895 | ppbv | | 99 |
| 62) | Isopropylbenzene | 10.542 | 105 | 834260 | 11.677 | ppbv | | 99 |
| 63) | 1,1,2,2-Tetrachloroethane | 9.966 | 83 | 362310 | 12.280 | ppbv | | 99 |
| 64) | n-propylbenzene | 10.992 | 120 | 215585 | 11.942 | ppbv | | 98 |
| 65) | tert-Butylbenzene | 11.536 | 119 | 746398 | 11.464 | ppbv | | 99 |
| 66) | Benzyl Chloride | 11.620 | 91 | 44973 | 11.160 | ppbv | | 98 |
| 67) | sec-Butylbenzene | 11.772 | 105 | 1044912 | 11.655 | ppbv | | 100 |
| 69) | p-Isopropyltoluene | 11.931 | 119 | 867909 | 11.756 | ppbv | | 99 |
| 70) | n-Butylbenzene | 12.284 | 91 | 848499 | 11.589 | ppbv | | 100 |
| 71) | 2-Chlorotoluene | 10.905 | 91 | 615388 | 11.644 | ppbv | | 98 |
| 72) | 4-Ethyltoluene | 11.128 | 105 | 658660 | 11.926 | ppbv | | 100 |
| 73) | 1,3,5-Trimethylbenzene | 11.209 | 105 | 566361 | 11.613 | ppbv | | 96 |
| 74) | 1,2,4-Trimethylbenzene | 11.542 | 105 | 616177 | 11.666 | ppbv | | 90 |
| 75) | 1,3-Dichlorobenzene | 11.614 | 146 | 357966 | 11.437 | ppbv | | 99 |
| 76) | 1,4-Dichlorobenzene | 11.675 | 146 | 352145 | 11.500 | ppbv | | 100 |
| 77) | 1,2-Dichlorobenzene | 11.950 | 146 | 355386 | 11.457 | ppbv | | 100 |
| 78) | Hexachloro-1,3-Butadiene | 13.886 | 225 | 247691 | 9.729 | ppbv | | 99 |
| 79) | Naphthalene | 13.517 | 128 | 553420 | 10.407 | ppbv | | 99 |
| 80) | Naphthalene,2-methyl- | 14.465 | 142 | 173813 | 6.894 | ppbv | | 97 |
| 81) | 1,2,4-Trichlorobenzene | 13.446 | 180 | 251038 | 9.671 | ppbv | | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

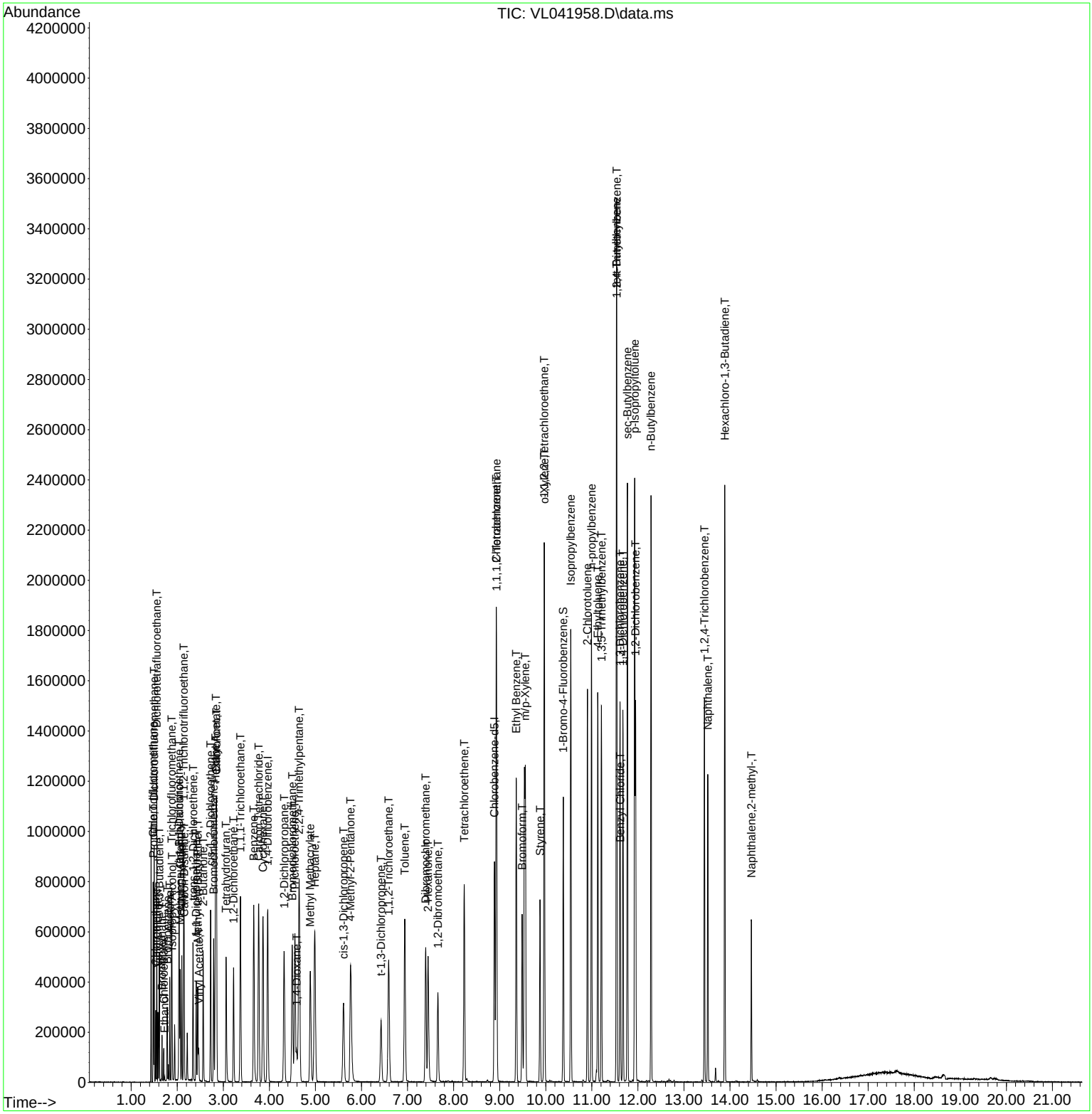
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041958.D
Acq On : 03 Feb 2025 10:48
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 04 02:30:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041958.D
Acq On : 03 Feb 2025 10:48
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**LabSampleId :**
VSTDCCC010

Quant Time: Feb 04 02:30:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Bromochloromethane | 1.000 | 1.000 | 0.0 | 103 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 1.362 | 1.387 | -1.8 | 110 | 0.00 |
| 3 | | Chlorodifluoromethane | 1.427 | 1.469 | -2.9 | 114 | 0.00 |
| 4 | | Chloromethane | 0.512 | 0.549 | -7.2 | 115 | 0.00 |
| 5 | T | Vinyl Chloride | 0.519 | 0.529 | -1.9 | 117 | 0.00 |
| 6 | T | Bromomethane | 0.247 | 0.243 | 1.6 | 110 | 0.00 |
| 7 | | Chloroethane | 0.202 | 0.217 | -7.4 | 116 | 0.00 |
| 8 | T | Dichlorotetrafluoroethane | 1.190 | 1.183 | 0.6 | 112 | 0.00 |
| 9 | T | Propene | 0.588 | 0.609 | -3.6 | 111 | 0.00 |
| 10 | T | Heptane | 1.571 | 1.695 | -7.9 | 115 | -0.02 |
| 11 | T | Trichlorofluoromethane | 1.417 | 1.348 | 4.9 | 104 | 0.00 |
| 12 | T | 1,1,2-Trichlorotrifluoroeth | 1.110 | 1.035 | 6.8 | 101 | 0.00 |
| 13 | | Ethanol | 0.043 | 0.028# | 34.9# | 106 | 0.00 |
| 14 | T | Bromoethene | 0.407 | 0.385 | 5.4 | 107 | 0.00 |
| 15 | T | Acetone | 1.201 | 1.121 | 6.7 | 117 | 0.00 |
| 16 | T | 1,3-Butadiene | 0.539 | 0.551 | -2.2 | 115 | 0.00 |
| 17 | | tert-Butyl alcohol | 1.478 | 1.312 | 11.2 | 97 | 0.00 |
| 18 | T | 1,1-Dichloroethene | 0.501 | 0.473 | 5.6 | 107 | 0.00 |
| 19 | T | Isopropyl Alcohol | 0.712 | 0.641 | 10.0 | 107 | 0.00 |
| 20 | T | Methylene Chloride | 0.475 | 0.400 | 15.8 | 106 | 0.00 |
| 21 | T | Allyl Chloride | 0.832 | 0.805 | 3.2 | 105 | 0.00 |
| 22 | T | trans-1,2-Dichloroethene | 0.565 | 0.548 | 3.0 | 105 | 0.00 |
| 23 | T | Vinyl Acetate | 0.595 | 0.536 | 9.9 | 103 | 0.00 |
| 24 | T | 1,1-Dichloroethane | 1.093 | 1.089 | 0.4 | 111 | 0.00 |
| 25 | T | Ethyl Acetate | 3.239 | 3.507 | -8.3 | 117 | 0.00 |
| 26 | T | Hexane | 1.281 | 1.372 | -7.1 | 113 | 0.00 |
| 27 | T | Carbon Disulfide | 1.268 | 1.273 | -0.4 | 105 | 0.00 |
| 28 | T | Methyl tert-Butyl Ether | 0.979 | 0.952 | 2.8 | 127 | 0.00 |
| 29 | T | Chloroform | 2.025 | 2.120 | -4.7 | 115 | 0.00 |
| 30 | T | Cyclohexane | 1.111 | 1.163 | -4.7 | 111 | 0.00 |
| 31 | T | cis-1,2-Dichloroethene | 1.349 | 1.325 | 1.8 | 108 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 1.938 | 2.024 | -4.4 | 110 | 0.00 |
| 33 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 96 | -0.01 |
| 34 | T | 2-Butanone | 0.636 | 0.729 | -14.6 | 116 | 0.00 |
| 35 | T | Carbon Tetrachloride | 0.628 | 0.747 | -18.9 | 110 | -0.01 |
| 36 | T | Benzene | 0.917 | 1.035 | -12.9 | 112 | 0.00 |
| 37 | T | 1,2-Dichloroethane | 0.515 | 0.562 | -9.1 | 109 | 0.00 |
| 38 | T | Trichloroethene | 0.364 | 0.408 | -12.1 | 110 | -0.01 |
| 39 | T | 1,2-Dichloropropane | 0.322 | 0.362 | -12.4 | 113 | 0.00 |
| 40 | T | 1,4-Dioxane | 0.162 | 0.174 | -7.4 | 113 | -0.02 |
| 41 | T | Tetrahydrofuran | 0.346 | 0.406 | -17.3 | 112 | 0.00 |
| 42 | T | Bromodichloromethane | 0.691 | 0.803 | -16.2 | 112 | -0.01 |
| 43 | | Methyl Methacrylate | 0.341 | 0.364 | -6.7 | 103 | 0.00 |
| 44 | T | 2,2,4-Trimethylpentane | 1.484 | 1.749 | -17.9 | 115 | -0.01 |
| 45 | T | t-1,3-Dichloropropene | 0.319 | 0.345 | -8.2 | 97 | 0.00 |
| 46 | T | cis-1,3-Dichloropropene | 0.419 | 0.472 | -12.6 | 101 | -0.01 |
| 47 | T | 1,1,2-Trichloroethane | 0.341 | 0.389 | -14.1 | 112 | 0.00 |
| 48 | T | Dibromochloromethane | 0.526 | 0.627 | -19.2 | 110 | 0.00 |

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041958.D
Acq On : 03 Feb 2025 10:48
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**LabSampleId :**
VSTDCCC010

Quant Time: Feb 04 02:30:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | Bromoform | 0.432 | 0.524 | -21.3 | 109 | 0.00 |
| 50 | T | 4-Methyl-2-Pentanone | 0.868 | 0.998 | -15.0 | 115 | -0.02 |
| 51 | T | 2-Hexanone | 0.667 | 0.784 | -17.5 | 115 | 0.00 |
| 52 | T | Tetrachloroethene | 0.318 | 0.325 | -2.2 | 106 | 0.00 |
| 53 | T | Toluene | 0.999 | 1.126 | -12.7 | 107 | -0.01 |
| 54 | T | 1,2-Dibromoethane | 0.469 | 0.534 | -13.9 | 112 | 0.00 |
| 55 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 93 | 0.00 |
| 56 | | 1,1,1,2-Tetrachloroethane | 0.499 | 0.593 | -18.8 | 114 | 0.00 |
| 57 | T | Chlorobenzene | 0.922 | 1.041 | -12.9 | 114 | 0.00 |
| 58 | T | Ethyl Benzene | 1.563 | 1.802 | -15.3 | 108 | 0.00 |
| 59 | T | m/p-Xylene | 1.253 | 1.490 | -18.9 | 113 | 0.00 |
| 60 | T | o-Xylene | 1.243 | 1.495 | -20.3 | 113 | 0.00 |
| 61 | T | Styrene | 0.558 | 0.663 | -18.8 | 105 | 0.00 |
| 62 | | Isopropylbenzene | 1.924 | 2.247 | -16.8 | 112 | 0.00 |
| 63 | T | 1,1,2,2-Tetrachloroethane | 0.795 | 0.976 | -22.8 | 121 | 0.00 |
| 64 | | n-propylbenzene | 0.486 | 0.581 | -19.5 | 115 | 0.00 |
| 65 | | tert-Butylbenzene | 1.753 | 2.010 | -14.7 | 111 | 0.00 |
| 66 | T | Benzyl Chloride | 0.109 | 0.121 | -11.0 | 98 | 0.00 |
| 67 | | sec-Butylbenzene | 2.414 | 2.814 | -16.6 | 114 | 0.00 |
| 68 | S | 1-Bromo-4-Fluorobenzene | 0.788 | 0.780 | 1.0 | 92 | 0.00 |
| 69 | | p-Isopropyltoluene | 1.988 | 2.337 | -17.6 | 113 | 0.00 |
| 70 | | n-Butylbenzene | 1.972 | 2.285 | -15.9 | 112 | 0.00 |
| 71 | | 2-Chlorotoluene | 1.423 | 1.657 | -16.4 | 111 | 0.00 |
| 72 | T | 4-Ethyltoluene | 1.487 | 1.774 | -19.3 | 112 | 0.00 |
| 73 | T | 1,3,5-Trimethylbenzene | 1.313 | 1.525 | -16.1 | 112 | 0.00 |
| 74 | T | 1,2,4-Trimethylbenzene | 1.422 | 1.659 | -16.7 | 114 | 0.00 |
| 75 | T | 1,3-Dichlorobenzene | 0.843 | 0.964 | -14.4 | 115 | 0.00 |
| 76 | T | 1,4-Dichlorobenzene | 0.825 | 0.948 | -14.9 | 114 | 0.00 |
| 77 | T | 1,2-Dichlorobenzene | 0.835 | 0.957 | -14.6 | 117 | 0.00 |
| 78 | T | Hexachloro-1,3-Butadiene | 0.686 | 0.667 | 2.8 | 106 | 0.00 |
| 79 | T | Naphthalene | 1.432 | 1.490 | -4.1 | 110 | 0.00 |
| 80 | T | Naphthalene,2-methyl- | 0.679 | 0.468 | 31.1# | 94 | 0.00 |
| 81 | T | 1,2,4-Trichlorobenzene | 0.699 | 0.676 | 3.3 | 105 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041960.D
Acq On : 03 Feb 2025 12:05
Operator : SY/MD
Sample : VL0203ABL02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0203ABL02

Quant Time: Feb 04 02:33:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.790 | 49 | 151198 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.965 | 114 | 407814 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.888 | 117 | 347345 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.380 | 95 | 262058 | 9.579 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 95.800% | | | |
| Target Compounds | | | | | | Qvalue |

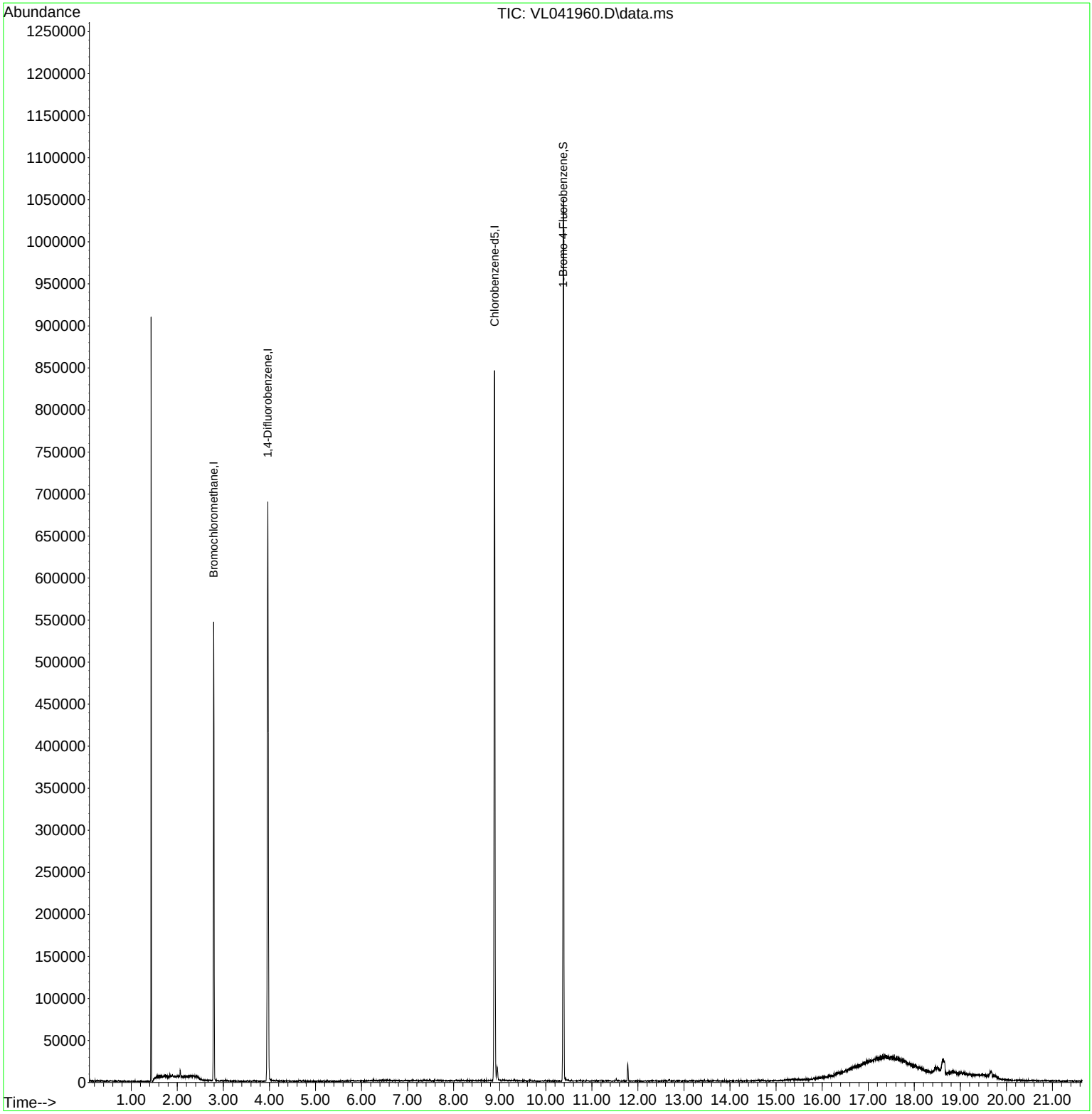
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041960.D
Acq On : 03 Feb 2025 12:05
Operator : SY/MD
Sample : VL0203ABL02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0203ABL02

Quant Time: Feb 04 02:33:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041961.D
Acq On : 03 Feb 2025 12:57
Operator : SY/MD
Sample : VL0203ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 04 02:34:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0203ABS01

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.790 | 49 | 152847 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.965 | 114 | 418895 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.882 | 117 | 367437 | 10.000 | ppbv | -0.01 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.380 | 95 | 287209 | 9.924 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 99.200% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.499 | 85 | 203280 | 9.764 | ppbv | 99 |
| 3) Chlorodifluoromethane | 1.476 | 51 | 225433 | 10.336 | ppbv | 99 |
| 4) Chloromethane | 1.535 | 50 | 81880 | 10.457 | ppbv | 94 |
| 5) Vinyl Chloride | 1.583 | 62 | 77713 | 9.799 | ppbv | 98 |
| 6) Bromomethane | 1.670 | 94 | 36640 | 9.694 | ppbv | 88 |
| 7) Chloroethane | 1.706 | 64 | 31280 | 10.137 | ppbv | 94 |
| 8) Dichlorotetrafluoroethane | 1.557 | 85 | 179670 | 9.875 | ppbv | 98 |
| 9) Propene | 1.486 | 41 | 91411 | 10.174 | ppbv | 99 |
| 10) Heptane | 4.985 | 43 | 161638 | 6.731 | ppbv | 99 |
| 11) Trichlorofluoromethane | 1.881 | 101 | 201683 | 9.312 | ppbv | 96 |
| 12) 1,1,2-Trichlorotrifluo... | 2.143 | 101 | 164938 | 9.717 | ppbv | 98 |
| 13) Ethanol | 1.722 | 45 | 4592 | 6.978 | ppbv | 91 |
| 14) Bromoethene | 1.784 | 108 | 57833 | 9.306 | ppbv | 99 |
| 15) Acetone | 1.839 | 43 | 165826 | 9.033 | ppbv | 98 |
| 16) 1,3-Butadiene | 1.609 | 39 | 83163 | 10.093 | ppbv | 98 |
| 17) tert-Butyl alcohol | 2.043 | 59 | 198776 | 8.797 | ppbv | 98 |
| 18) 1,1-Dichloroethene | 2.036 | 96 | 70323 | 9.192 | ppbv | 97 |
| 19) Isopropyl Alcohol | 1.891 | 45 | 99004 | 9.096 | ppbv | 95 |
| 20) Methylene Chloride | 2.065 | 84 | 62278 | 8.584 | ppbv | 99 |
| 21) Allyl Chloride | 2.098 | 41 | 122853 | 9.664 | ppbv | 98 |
| 22) trans-1,2-Dichloroethene | 2.344 | 96 | 85089 | 9.855 | ppbv | 98 |
| 23) Vinyl Acetate | 2.467 | 43 | 86919 | 9.552 | ppbv # | 96 |
| 24) 1,1-Dichloroethane | 2.412 | 63 | 166034 | 9.942 | ppbv | 99 |
| 25) Ethyl Acetate | 2.842 | 43 | 536156 | 10.831 | ppbv | 100 |
| 26) Hexane | 2.832 | 57 | 210051 | 10.728 | ppbv | 95 |
| 27) Carbon Disulfide | 2.153 | 76 | 198444 | 10.242 | ppbv | 99 |
| 28) Methyl tert-Butyl Ether | 2.444 | 73 | 110198 | 7.364 | ppbv | 99 |
| 29) Chloroform | 2.855 | 83 | 325966 | 10.532 | ppbv | 96 |
| 30) Cyclohexane | 3.865 | 84 | 173840 | 10.236 | ppbv | 98 |
| 31) cis-1,2-Dichloroethene | 2.726 | 61 | 204611 | 9.925 | ppbv | 95 |
| 32) 1,1,1-Trichloroethane | 3.376 | 97 | 305623 | 10.320 | ppbv | 99 |
| 34) 2-Butanone | 2.564 | 43 | 302190 | 11.344 | ppbv | 99 |
| 35) Carbon Tetrachloride | 3.768 | 117 | 309917 | 11.778 | ppbv | 97 |
| 36) Benzene | 3.664 | 78 | 426241 | 11.094 | ppbv | 99 |
| 37) 1,2-Dichloroethane | 3.224 | 62 | 235620 | 10.920 | ppbv | 99 |
| 38) Trichloroethene | 4.554 | 130 | 167629 | 10.995 | ppbv | 97 |
| 39) 1,2-Dichloropropane | 4.318 | 63 | 151232 | 11.221 | ppbv | 97 |
| 40) 1,4-Dioxane | 4.590 | 88 | 74021 | 10.876 | ppbv # | 100 |
| 41) Tetrahydrofuran | 3.062 | 42 | 169798 | 11.728 | ppbv | 98 |
| 42) Bromodichloromethane | 4.496 | 83 | 335595 | 11.600 | ppbv | 98 |
| 43) Methyl Methacrylate | 4.884 | 69 | 102724 | 7.197 | ppbv | 96 |
| 44) 2,2,4-Trimethylpentane | 4.648 | 57 | 725196 | 11.670 | ppbv | 99 |
| 45) t-1,3-Dichloropropene | 6.422 | 75 | 145441 | 10.886 | ppbv | 94 |

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041961.D
Acq On : 03 Feb 2025 12:57
Operator : SY/MD
Sample : VL0203ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 04 02:34:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0203ABS01

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.609 | 75 | 122518 | 6.985 | ppbv | | 98 |
| 47) 1,1,2-Trichloroethane | 6.590 | 97 | 167038 | 11.694 | ppbv | | 95 |
| 48) Dibromochloromethane | 7.390 | 129 | 260120 | 11.803 | ppbv | | 100 |
| 49) Bromoform | 9.487 | 173 | 217089 | 11.991 | ppbv | | 99 |
| 50) 4-Methyl-2-Pentanone | 5.765 | 43 | 267280 | 7.350 | ppbv | | 98 |
| 51) 2-Hexanone | 7.445 | 43 | 328817 | 11.767 | ppbv | # | 96 |
| 52) Tetrachloroethene | 8.225 | 164 | 136143 | 10.220 | ppbv | | 97 |
| 53) Toluene | 6.936 | 91 | 469033 | 11.207 | ppbv | | 99 |
| 54) 1,2-Dibromoethane | 7.655 | 107 | 222983 | 11.356 | ppbv | | 100 |
| 56) 1,1,1,2-Tetrachloroethane | 8.927 | 131 | 214758 | 11.715 | ppbv | | 99 |
| 57) Chlorobenzene | 8.924 | 112 | 382465 | 11.284 | ppbv | | 99 |
| 58) Ethyl Benzene | 9.357 | 91 | 646825 | 11.264 | ppbv | | 98 |
| 59) m/p-Xylene | 9.555 | 91 | 1068374m | 23.212 | ppbv | | |
| 60) o-Xylene | 9.966 | 91 | 537558 | 11.766 | ppbv | | 98 |
| 61) Styrene | 9.872 | 104 | 239767 | 11.699 | ppbv | | 98 |
| 62) Isopropylbenzene | 10.542 | 105 | 802003 | 11.345 | ppbv | | 99 |
| 63) 1,1,2,2-Tetrachloroethane | 9.966 | 83 | 357905 | 12.260 | ppbv | | 100 |
| 64) n-propylbenzene | 10.992 | 120 | 208748 | 11.686 | ppbv | | 99 |
| 65) tert-Butylbenzene | 11.536 | 119 | 731901 | 11.360 | ppbv | | 99 |
| 66) Benzyl Chloride | 11.620 | 91 | 41013 | 10.285 | ppbv | | 97 |
| 67) sec-Butylbenzene | 11.772 | 105 | 1015579 | 11.448 | ppbv | | 99 |
| 69) p-Isopropyltoluene | 11.931 | 119 | 836492 | 11.451 | ppbv | | 98 |
| 70) n-Butylbenzene | 12.290 | 91 | 824000 | 11.374 | ppbv | | 100 |
| 71) 2-Chlorotoluene | 10.905 | 91 | 592446 | 11.329 | ppbv | | 99 |
| 72) 4-Ethyltoluene | 11.131 | 105 | 634050 | 11.602 | ppbv | | 99 |
| 73) 1,3,5-Trimethylbenzene | 11.209 | 105 | 551677 | 11.432 | ppbv | | 97 |
| 74) 1,2,4-Trimethylbenzene | 11.542 | 105 | 602744 | 11.533 | ppbv | | 96 |
| 75) 1,3-Dichlorobenzene | 11.613 | 146 | 348392 | 11.249 | ppbv | | 99 |
| 76) 1,4-Dichlorobenzene | 11.678 | 146 | 344428 | 11.367 | ppbv | | 99 |
| 77) 1,2-Dichlorobenzene | 11.953 | 146 | 350456 | 11.418 | ppbv | | 98 |
| 78) Hexachloro-1,3-Butadiene | 13.892 | 225 | 239328 | 9.500 | ppbv | | 99 |
| 79) Naphthalene | 13.523 | 128 | 539332 | 10.249 | ppbv | | 98 |
| 80) Naphthalene,2-methyl- | 14.468 | 142 | 172189 | 6.902 | ppbv | | 97 |
| 81) 1,2,4-Trichlorobenzene | 13.452 | 180 | 244059 | 9.502 | ppbv | | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

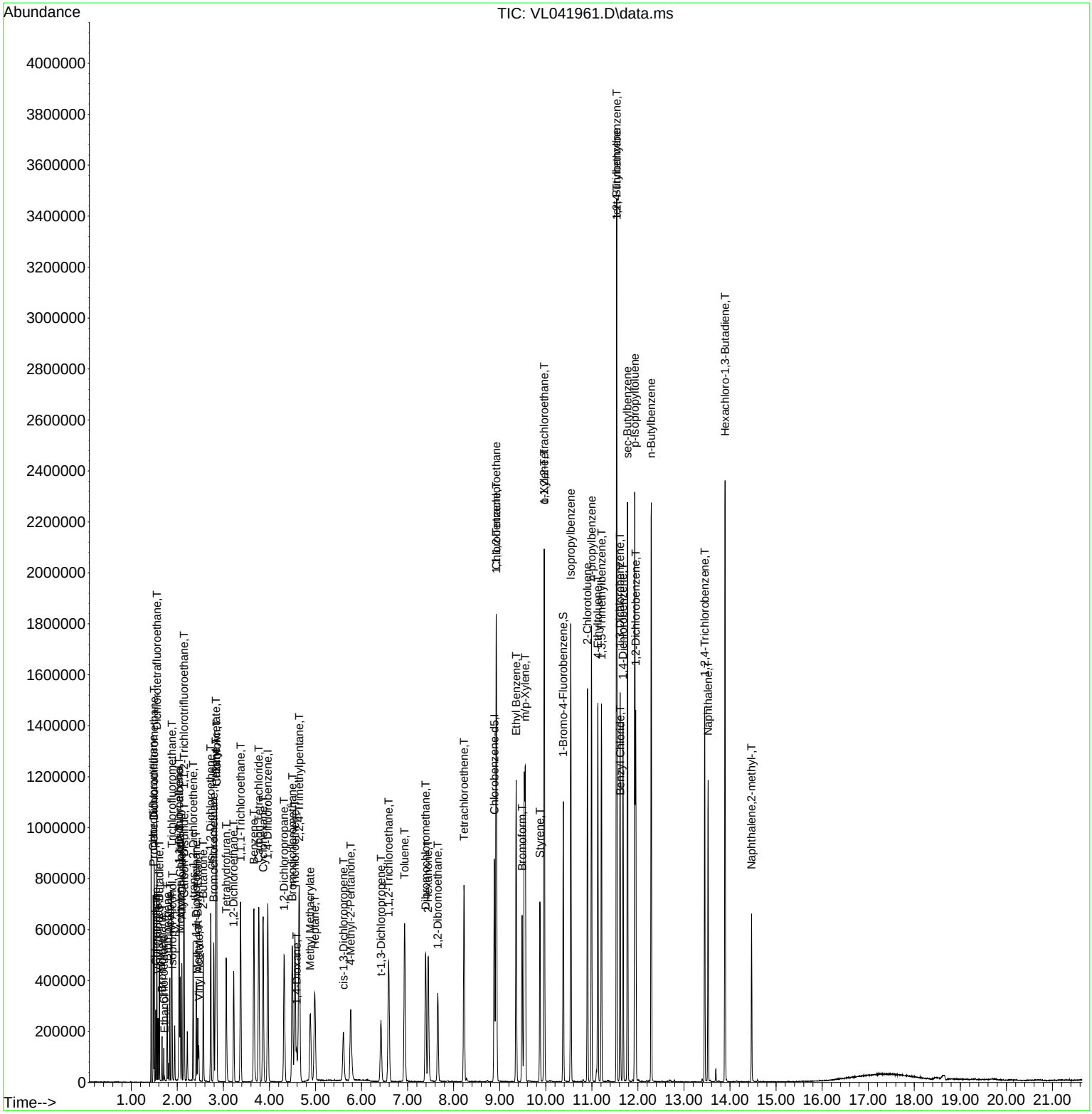
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041961.D
Acq On : 03 Feb 2025 12:57
Operator : SY/MD
Sample : VL0203ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 04 02:34:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0203ABS01

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041974.D
Acq On : 04 Feb 2025 08:03
Operator : SY/MD
Sample : QC020325 CAN 10599
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
QC020325 CAN 10599

Quant Time: Feb 04 08:27:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

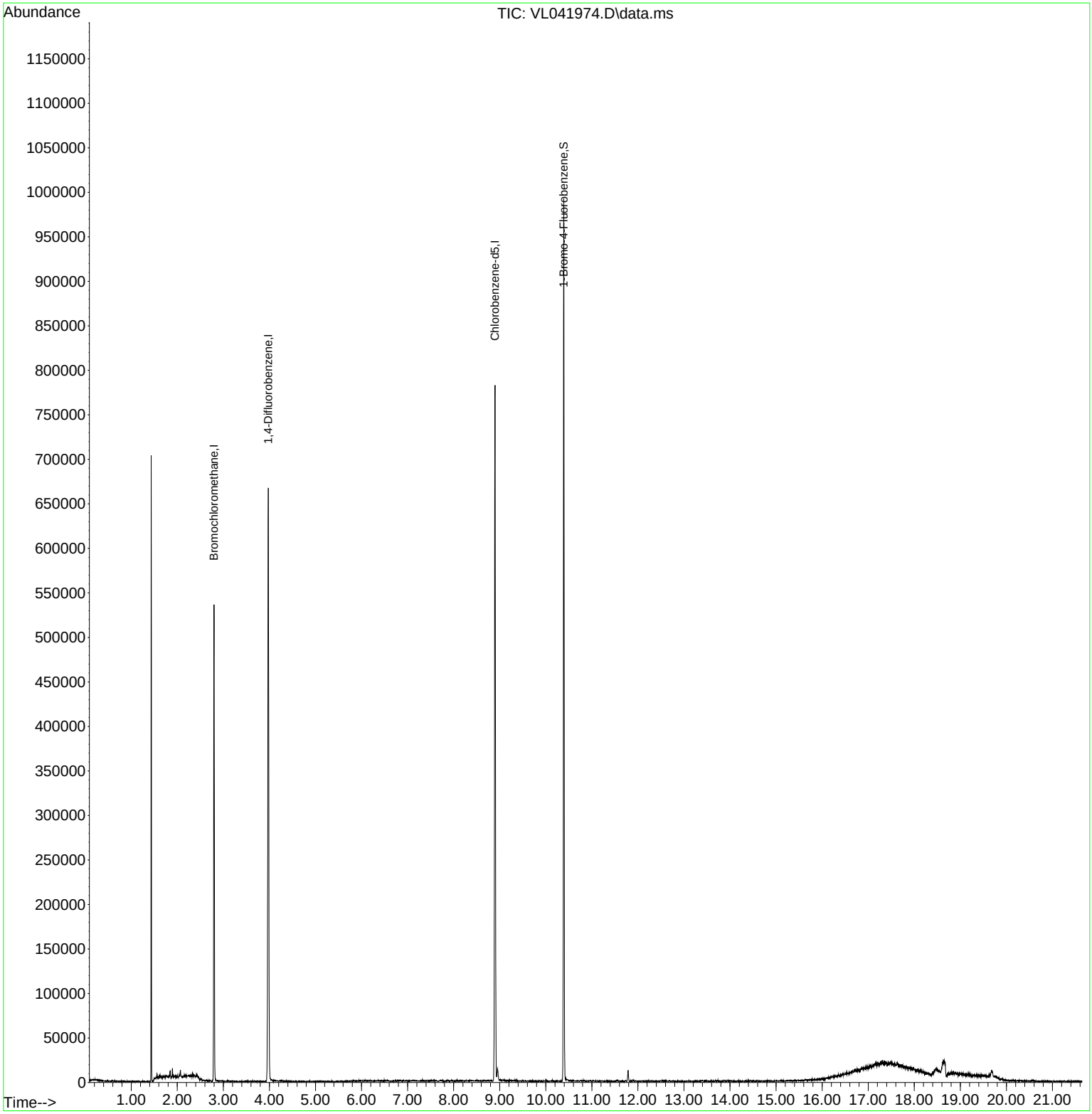
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.797 | 49 | 148524 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.975 | 114 | 371804 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.898 | 117 | 315945 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.390 | 95 | 232316 | 9.336 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 93.400% | | | |
| Target Compounds | | | | | | Qvalue |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041974.D
Acq On : 04 Feb 2025 08:03
Operator : SY/MD
Sample : QC020325 CAN 10599
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
QC020325 CAN 10599

Quant Time: Feb 04 08:27:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

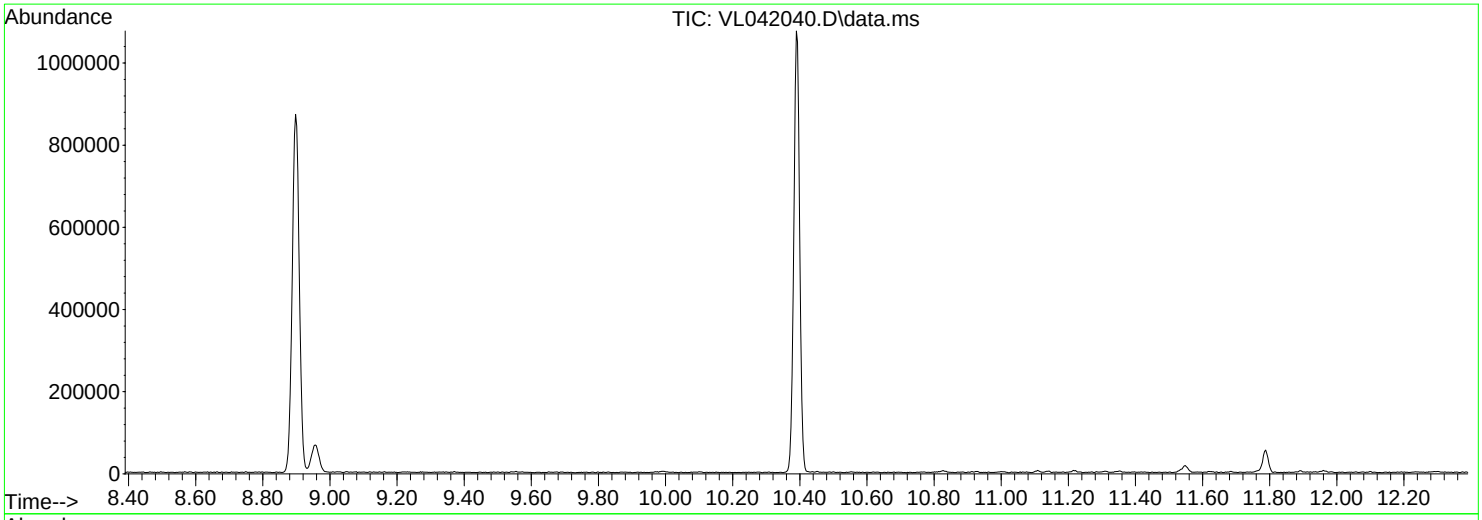


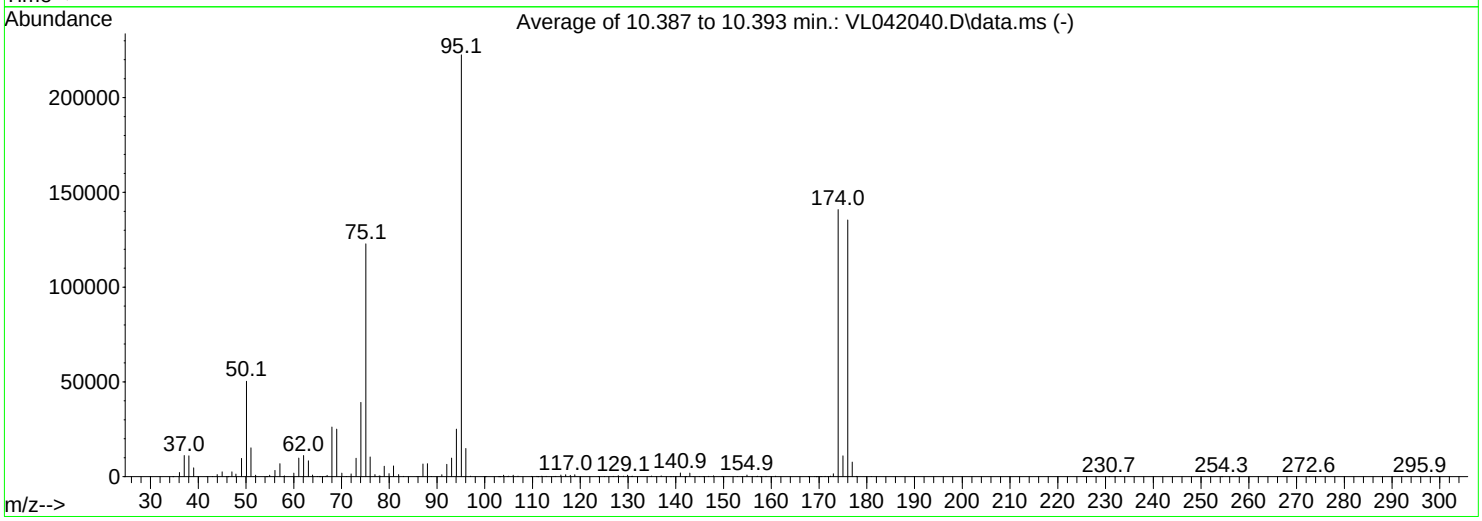
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042040.D
Acq On : 25 Feb 2025 07:56
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Wed Feb 26 01:08:36 2025




AutoFind: Scans 3182, 3183, 3184; Background Corrected with Scan 3168

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 8 | 40 | 22.6 | 50320 | PASS |
| 75 | 95 | 30 | 66 | 55.2 | 122859 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 222571 | PASS |
| 96 | 95 | 5 | 9 | 6.7 | 14875 | PASS |
| 173 | 174 | 0.00 | 2 | 1.1 | 1534 | PASS |
| 174 | 95 | 50 | 120 | 63.3 | 140957 | PASS |
| 175 | 174 | 4 | 9 | 7.8 | 11014 | PASS |
| 176 | 174 | 93 | 101 | 96.1 | 135437 | PASS |
| 177 | 176 | 5 | 9 | 5.7 | 7676 | PASS |

Response Factor Report MSVOA_L

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL022525AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Wed Feb 26 01:08:36 2025
Response Via : Initial Calibration

Calibration Files
0.03=VL042046.D 0.1 =VL042045.D 0.5 =VL042044.D 1 =VL042043.D 2 =VL042042.D 10 =VL042041.D 15 =VL042047.D

| | | Compound | 0.03 | 0.1 | 0.5 | 1 | 2 | 10 | 15 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | Bromochloromethane | ----------ISTD---------- | | | | | | | | |
| 2) | T | Dichlorodifluo... | | | 1.109 | 1.084 | 1.091 | 0.943 | 0.973 | 1.040 | 7.31 |
| 3) | | Chlorodifluoro... | | | 1.493 | 1.566 | 1.535 | 1.311 | 1.362 | 1.453 | 7.67 |
| 4) | | Chloromethane | | | 0.438 | 0.398 | 0.399 | 0.344 | 0.344 | 0.385 | 10.53 |
| 5) | T | Vinyl Chloride | 0.447 | 0.336 | 0.376 | 0.346 | 0.361 | 0.337 | 0.343 | 0.364 | 10.89 |
| 6) | T | Bromomethane | | | 0.170 | 0.184 | 0.186 | 0.160 | 0.165 | 0.173 | 6.63 |
| 7) | | Chloroethane | | | 0.151 | 0.158 | 0.156 | 0.135 | 0.140 | 0.148 | 6.83 |
| 8) | T | Dichlorotetraf... | | | 0.892 | 0.910 | 0.901 | 0.779 | 0.791 | 0.855 | 7.47 |
| 9) | T | Propene | | | 0.614 | 0.630 | 0.636 | 0.522 | 0.558 | 0.592 | 8.47 |
| 10) | T | Heptane | | | 1.971 | 1.946 | 1.960 | 1.662 | 1.679 | 1.844 | 8.59 |
| 11) | T | Trichlorofluor... | | | 1.056 | 1.122 | 1.119 | 0.944 | 0.968 | 1.042 | 7.98 |
| 12) | T | 1,1,2-Trichlor... | | | 0.919 | 0.902 | 0.865 | 0.697 | 0.773 | 0.831 | 11.28 |
| 13) | | Ethanol | | | 0.053 | 0.057 | 0.040 | 0.020 | 0.018 | 0.038# | 48.50 |
| 14) | T | Bromoethene | | | 0.325 | 0.304 | 0.299 | 0.264 | 0.275 | 0.293 | 8.41 |
| 15) | T | Acetone | | | 1.084 | 0.960 | 0.933 | 0.714 | 0.723 | 0.883 | 18.17 |
| 16) | T | 1,3-Butadiene | | | 0.476 | 0.435 | 0.418 | 0.358 | 0.367 | 0.411 | 11.96 |
| 17) | | tert-Butyl alc... | | | 1.184 | 1.185 | 1.201 | 0.950 | 1.004 | 1.105 | 10.71 |
| 18) | T | 1,1-Dichloroet... | | | 0.398 | 0.437 | 0.386 | 0.320 | 0.338 | 0.376 | 12.57 |
| 19) | T | Isopropyl Alcohol | | | 0.561 | 0.571 | 0.557 | 0.419 | 0.429 | 0.507 | 15.06 |
| 20) | T | Methylene Chlo... | | | 0.429 | 0.374 | 0.329 | 0.261 | 0.278 | 0.334 | 20.72 |
| 21) | T | Allyl Chloride | | | 0.707 | 0.717 | 0.639 | 0.538 | 0.590 | 0.638 | 11.94 |
| 22) | T | trans-1,2-Dich... | | | 0.481 | 0.506 | 0.450 | 0.358 | 0.395 | 0.438 | 13.90 |
| 23) | T | Vinyl Acetate | | | 0.689 | 0.614 | 0.695 | 0.520 | 0.586 | 0.621 | 11.82 |
| 24) | T | 1,1-Dichloroet... | | | 0.927 | 0.856 | 0.863 | 0.669 | 0.758 | 0.815 | 12.42 |
| 25) | T | Ethyl Acetate | | | 3.833 | 3.674 | 3.776 | 3.174 | 3.217 | 3.535 | 8.91 |
| 26) | T | Hexane | | | 1.596 | 1.462 | 1.519 | 1.282 | 1.287 | 1.429 | 9.83 |
| 27) | T | Carbon Disulfide | | | 1.042 | 0.972 | 1.032 | 0.856 | 0.942 | 0.969 | 7.78 |
| 28) | T | Methyl tert-Bu... | | | 0.650 | 0.844 | 0.838 | 0.522 | 0.705 | 0.711 | 19.02 |
| 29) | T | Chloroform | | | 2.165 | 2.044 | 1.971 | 1.722 | 1.716 | 1.923 | 10.36 |
| 30) | T | Cyclohexane | | | 1.154 | 1.239 | 1.255 | 1.076 | 1.076 | 1.160 | 7.39 |
| 31) | T | cis-1,2-Dichlo... | | | 1.421 | 1.401 | 1.450 | 1.237 | 1.255 | 1.353 | 7.33 |
| 32) | T | 1,1,1-Trichlor... | 1.921 | 1.875 | 1.883 | 1.916 | 1.944 | 1.771 | 1.751 | 1.866 | 4.05 |
| 33) | I | 1,4-Difluorobenzene | ----------ISTD---------- | | | | | | | | |
| 34) | T | 2-Butanone | | | 0.833 | 0.799 | 0.812 | 0.692 | 0.759 | 0.779 | 7.15 |
| 35) | T | Carbon Tetrach... | 0.664 | 0.705 | 0.675 | 0.723 | 0.725 | 0.655 | 0.681 | 0.690 | 4.09 |
| 36) | T | Benzene | | | 1.079 | 1.084 | 1.104 | 0.969 | 0.999 | 1.047 | 5.66 |
| 37) | T | 1,2-Dichloroet... | | | 0.624 | 0.604 | 0.598 | 0.520 | 0.556 | 0.580 | 7.20 |
| 38) | T | Trichloroethene | 0.447 | 0.462 | 0.433 | 0.447 | 0.447 | 0.378 | 0.379 | 0.427 | 8.06 |
| 39) | T | 1,2-Dichloropr... | | | 0.421 | 0.415 | 0.414 | 0.357 | 0.379 | 0.397 | 7.02 |

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL022525AIR.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 40) | T | 1,4-Dioxane | | | 0.192 | 0.196 | 0.181 | 0.164 | 0.173 | 0.181 | 7.31 |
| 41) | T | Tetrahydrofuran | | | 0.469 | 0.492 | 0.473 | 0.418 | 0.450 | 0.460 | 6.04 |
| 42) | T | Bromodichlorom... | | | 0.806 | 0.791 | 0.810 | 0.739 | 0.765 | 0.782 | 3.81 |
| 43) | | Methyl Methacr... | | | 0.400 | 0.418 | 0.426 | 0.392 | 0.409 | 0.409 | 3.35 |
| 44) | T | 2,2,4-Trimethy... | | | 1.928 | 1.935 | 1.955 | 1.670 | 1.750 | 1.848 | 6.99 |
| 45) | T | t-1,3-Dichloro... | | | 0.414 | 0.392 | 0.418 | 0.393 | 0.414 | 0.406 | 3.12 |
| 46) | T | cis-1,3-Dichlo... | | | 0.514 | 0.523 | 0.548 | 0.516 | 0.526 | 0.526 | 2.59 |
| 47) | T | 1,1,2-Trichlor... | | | 0.426 | 0.429 | 0.426 | 0.361 | 0.375 | 0.403 | 8.12 |
| 48) | T | Dibromochlorom... | | | 0.618 | 0.667 | 0.667 | 0.594 | 0.613 | 0.632 | 5.25 |
| 49) | T | Bromoform | | | 0.553 | 0.551 | 0.588 | 0.525 | 0.526 | 0.549 | 4.68 |
| 50) | T | 4-Methyl-2-Pen... | | | 0.996 | 0.974 | 0.975 | 1.014 | 1.079 | 1.008 | 4.27 |
| 51) | T | 2-Hexanone | | | 0.577 | 0.570 | 0.608 | 0.834 | 0.879 | 0.693 | 21.69 |
| 52) | T | Tetrachloroethene | 0.322 | 0.374 | 0.380 | 0.383 | 0.385 | 0.327 | 0.337 | 0.358 | 7.88 |
| 53) | T | Toluene | | | 1.150 | 1.210 | 1.284 | 1.088 | 1.118 | 1.170 | 6.67 |
| 54) | T | 1,2-Dibromoethane | | 0.563 | 0.556 | 0.553 | 0.586 | 0.500 | 0.514 | 0.545 | 5.87 |
| 55) | I | Chlorobenzene-d5 | ----------ISTD---------- | | | | | | | | |
| 56) | | 1,1,1,2-Tetrac... | | | 0.607 | 0.596 | 0.595 | 0.505 | 0.524 | 0.565 | 8.37 |
| 57) | T | Chlorobenzene | | | 1.102 | 1.113 | 1.121 | 0.910 | 0.938 | 1.037 | 10.02 |
| 58) | T | Ethyl Benzene | | | 1.886 | 1.906 | 1.974 | 1.694 | 1.749 | 1.842 | 6.31 |
| 59) | T | m/p-Xylene | | | 1.488 | 1.550 | 1.580 | 1.330 | 1.380 | 1.466 | 7.35 |
| 60) | T | o-Xylene | | | 1.572 | 1.550 | 1.577 | 1.317 | 1.351 | 1.473 | 8.68 |
| 61) | T | Styrene | | | 0.659 | 0.719 | 0.738 | 0.658 | 0.690 | 0.693 | 5.18 |
| 62) | | Isopropylbenzene | | | 2.299 | 2.339 | 2.399 | 1.969 | 2.026 | 2.207 | 8.84 |
| 63) | T | 1,1,2,2-Tetrac... | 0.999 | 0.975 | 1.026 | 1.041 | 1.031 | 0.848 | 0.872 | 0.970 | 8.13 |
| 64) | | n-propylbenzene | | | 0.596 | 0.607 | 0.632 | 0.524 | 0.535 | 0.579 | 8.11 |
| 65) | | tert-Butylbenzene | | | 2.080 | 2.251 | 2.222 | 1.733 | 1.753 | 2.008 | 12.47 |
| 66) | T | Benzyl Chloride | | | 0.141 | 0.159 | 0.163 | 0.153 | 0.150 | 0.153 | 5.40 |
| 67) | | sec-Butylbenzene | | | 2.973 | 3.229 | 3.182 | 2.482 | 2.494 | 2.872 | 12.65 |
| 68) | S | 1-Bromo-4-Fluo... | 0.773 | 0.760 | 0.768 | 0.777 | 0.765 | 0.764 | 0.779 | 0.769 | 0.92 |
| 69) | | p-Isopropyltol... | | | 2.240 | 2.533 | 2.575 | 2.021 | 2.056 | 2.285 | 11.38 |
| 70) | | n-Butylbenzene | | | 2.332 | 2.567 | 2.572 | 2.070 | 2.120 | 2.332 | 10.20 |
| 71) | | 2-Chlorotoluene | | | 1.758 | 1.829 | 1.853 | 1.514 | 1.551 | 1.701 | 9.30 |
| 72) | T | 4-Ethyltoluene | | | 1.775 | 1.944 | 1.985 | 1.621 | 1.670 | 1.799 | 8.99 |
| 73) | T | 1,3,5-Trimethy... | | | 1.592 | 1.732 | 1.696 | 1.381 | 1.400 | 1.560 | 10.47 |
| 74) | T | 1,2,4-Trimethy... | | | 1.855 | 1.982 | 1.990 | 1.471 | 1.488 | 1.757 | 14.76 |
| 75) | T | 1,3-Dichlorobe... | | | 1.112 | 1.110 | 1.083 | 0.869 | 0.882 | 1.011 | 12.30 |
| 76) | T | 1,4-Dichlorobe... | | | 1.120 | 1.061 | 1.092 | 0.861 | 0.886 | 1.004 | 12.07 |
| 77) | T | 1,2-Dichlorobe... | | | 1.059 | 1.097 | 1.063 | 0.836 | 0.852 | 0.981 | 12.88 |
| 78) | T | Hexachloro-1,3... | | | 0.840 | 0.832 | 0.844 | 0.637 | 0.666 | 0.764 | 13.53 |
| 79) | T | Naphthalene | | 0.841 | 0.978 | 1.237 | 1.352 | 1.371 | 1.450 | 1.205 | 20.15 |
| 80) | T | Naphthalene,2-... | | | 0.090 | 0.142 | 0.240 | 0.562 | 0.615 | 0.330 | 73.74 |
| 81) | T | 1,2,4-Trichlor... | | | 0.589 | 0.687 | 0.765 | 0.644 | 0.673 | 0.671 | 9.58 |

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042041.D
Acq On : 25 Feb 2025 08:56
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 25 10:10:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Feb 18 00:13:37 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

**Manual Integrations APPROVED**
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.800 | 49 | 161135 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.978 | 114 | 422655 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.901 | 117 | 374249 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.393 | 95 | 285943 | 9.263 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 92.600% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.502 | 85 | 152005 | 5.480 | ppbv | 99 |
| 3) Chlorodifluoromethane | 1.479 | 51 | 211185 | 6.887 | ppbv | 96 |
| 4) Chloromethane | 1.538 | 50 | 55364 | 5.136 | ppbv | 98 |
| 5) Vinyl Chloride | 1.586 | 62 | 54228 | 4.207 | ppbv | 98 |
| 6) Bromomethane | 1.674 | 94 | 25846 | 5.173 | ppbv | 90 |
| 7) Chloroethane | 1.709 | 64 | 21717 | 5.169 | ppbv | 96 |
| 8) Dichlorotetrafluoroethane | 1.560 | 85 | 125595 | 5.147 | ppbv | 94 |
| 9) Propene | 1.489 | 41 | 84038 | 6.357 | ppbv | 97 |
| 10) Heptane | 5.007 | 43 | 267860 | 7.296 | ppbv | 97 |
| 11) Trichlorofluoromethane | 1.884 | 101 | 152112 | 5.449 | ppbv | 96 |
| 12) 1,1,2-Trichlorotrifluo... | 2.146 | 101 | 112374 | 5.162 | ppbv | 93 |
| 13) Ethanol | 1.729 | 45 | 3178 | 2.131 | ppbv | 85 |
| 14) Bromoethene | 1.787 | 108 | 42461 | 5.223 | ppbv | 99 |
| 15) Acetone | 1.842 | 43 | 115085 | 4.327 | ppbv | 95 |
| 16) 1,3-Butadiene | 1.615 | 39 | 57707 | 4.574 | ppbv | 100 |
| 17) tert-Butyl alcohol | 2.049 | 59 | 153073 | 4.651 | ppbv | 100 |
| 18) 1,1-Dichloroethene | 2.043 | 96 | 51534 | 4.954 | ppbv | 95 |
| 19) Isopropyl Alcohol | 1.894 | 45 | 67445 | 4.522 | ppbv | 98 |
| 20) Methylene Chloride | 2.069 | 84 | 41998 | 4.195 | ppbv | 94 |
| 21) Allyl Chloride | 2.104 | 41 | 86723 | 4.504 | ppbv | 99 |
| 22) trans-1,2-Dichloroethene | 2.350 | 96 | 57617 | 5.104 | ppbv | 96 |
| 23) Vinyl Acetate | 2.473 | 43 | 83866 | 5.823 | ppbv | 98 |
| 24) 1,1-Dichloroethane | 2.418 | 63 | 107817 | 4.704 | ppbv | 100 |
| 25) Ethyl Acetate | 2.852 | 43 | 511505 | 7.007 | ppbv | 99 |
| 26) Hexane | 2.839 | 57 | 206577 | 7.052 | ppbv | 98 |
| 27) Carbon Disulfide | 2.159 | 76 | 137978 | 5.008 | ppbv | 97 |
| 28) Methyl tert-Butyl Ether | 2.450 | 73 | 84091 | 4.696 | ppbv | 98 |
| 29) Chloroform | 2.862 | 83 | 277411 | 6.538 | ppbv | 96 |
| 30) Cyclohexane | 3.875 | 84 | 173351 | 7.295 | ppbv | 98 |
| 31) cis-1,2-Dichloroethene | 2.732 | 61 | 199354 | 6.886 | ppbv | 98 |
| 32) 1,1,1-Trichloroethane | 3.383 | 97 | 285335 | 6.064 | ppbv | 98 |
| 34) 2-Butanone | 2.570 | 43 | 292449 | 8.043 | ppbv | 100 |
| 35) Carbon Tetrachloride | 3.781 | 117 | 276677 | 6.741 | ppbv | 97 |
| 36) Benzene | 3.674 | 78 | 409501 | 7.999 | ppbv | 98 |
| 37) 1,2-Dichloroethane | 3.234 | 62 | 219829 | 7.543 | ppbv | 100 |
| 38) Trichloroethene | 4.570 | 130 | 159933 | 7.689 | ppbv | 93 |
| 39) 1,2-Dichloropropane | 4.337 | 63 | 151036 | 8.047 | ppbv | 99 |
| 40) 1,4-Dioxane | 4.609 | 88 | 69399 | 7.105 | ppbv # | 76 |
| 41) Tetrahydrofuran | 3.072 | 42 | 176830 | 8.509 | ppbv | 95 |
| 42) Bromodichloromethane | 4.512 | 83 | 312250 | 7.908 | ppbv | 97 |
| 43) Methyl Methacrylate | 4.907 | 69 | 165494 | 7.091 | ppbv | 97 |
| 44) 2,2,4-Trimethylpentane | 4.661 | 57 | 705920 | 8.122 | ppbv | 97 |
| 45) t-1,3-Dichloropropene | 6.444 | 75 | 166207 | 7.544 | ppbv | 91 |

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042041.D
Acq On : 25 Feb 2025 08:56
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 25 10:10:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Feb 18 00:13:37 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

**Manual Integrations APPROVED**
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.629 | 75 | 218294 | 7.809 | ppbv | | 99 |
| 47) 1,1,2-Trichloroethane | 6.610 | 97 | 152556 | 7.723 | ppbv | | 97 |
| 48) Dibromochloromethane | 7.412 | 129 | 251213 | 7.593 | ppbv | | 99 |
| 49) Bromoform | 9.503 | 173 | 222057 | 8.183 | ppbv | | 98 |
| 50) 4-Methyl-2-Pentanone | 5.787 | 43 | 428434 | 7.666 | ppbv | | 100 |
| 51) 2-Hexanone | 7.464 | 43 | 352331 | 7.709 | ppbv | # | 96 |
| 52) Tetrachloroethene | 8.244 | 164 | 138263 | 7.743 | ppbv | | 94 |
| 53) Toluene | 6.959 | 91 | 460041 | 7.541 | ppbv | | 97 |
| 54) 1,2-Dibromoethane | 7.678 | 107 | 211395 | 7.772 | ppbv | | 98 |
| 56) 1,1,1,2-Tetrachloroethane | 8.943 | 131 | 188811 | 7.049 | ppbv | | 97 |
| 57) Chlorobenzene | 8.940 | 112 | 340525 | 7.735 | ppbv | | 97 |
| 58) Ethyl Benzene | 9.374 | 91 | 633939 | 7.739 | ppbv | | 98 |
| 59) m/p-Xylene | 9.552 | 91 | 995259m | 15.427 | ppbv | | |
| 60) o-Xylene | 9.982 | 91 | 493069 | 7.557 | ppbv | | 97 |
| 61) Styrene | 9.888 | 104 | 246161 | 7.912 | ppbv | | 98 |
| 62) Isopropylbenzene | 10.555 | 105 | 736884 | 7.522 | ppbv | | 98 |
| 63) 1,1,2,2-Tetrachloroethane | 9.979 | 83 | 317313 | 7.538 | ppbv | | 100 |
| 64) n-propylbenzene | 11.005 | 120 | 196044 | 8.145 | ppbv | | 90 |
| 65) tert-Butylbenzene | 11.545 | 119 | 648698 | 7.596 | ppbv | | 97 |
| 66) Benzyl Chloride | 11.630 | 91 | 57345 | 6.699 | ppbv | # | 97 |
| 67) sec-Butylbenzene | 11.782 | 105 | 928863 | 7.744 | ppbv | | 99 |
| 69) p-Isopropyltoluene | 11.940 | 119 | 756264 | 7.702 | ppbv | | 98 |
| 70) n-Butylbenzene | 12.296 | 91 | 774646 | 8.009 | ppbv | | 99 |
| 71) 2-Chlorotoluene | 10.918 | 91 | 566619 | 7.681 | ppbv | | 97 |
| 72) 4-Ethyltoluene | 11.141 | 105 | 606538 | 7.934 | ppbv | | 98 |
| 73) 1,3,5-Trimethylbenzene | 11.219 | 105 | 516875 | 7.838 | ppbv | | 100 |
| 74) 1,2,4-Trimethylbenzene | 11.552 | 105 | 550412 | 7.777 | ppbv | | 98 |
| 75) 1,3-Dichlorobenzene | 11.623 | 146 | 325160 | 8.535 | ppbv | | 97 |
| 76) 1,4-Dichlorobenzene | 11.685 | 146 | 322404 | 8.678 | ppbv | | 97 |
| 77) 1,2-Dichlorobenzene | 11.963 | 146 | 312942 | 8.593 | ppbv | | 96 |
| 78) Hexachloro-1,3-Butadiene | 13.895 | 225 | 238217 | 7.907 | ppbv | | 100 |
| 79) Naphthalene | 13.526 | 128 | 513192 | 7.372 | ppbv | | 99 |
| 80) Naphthalene,2-methyl- | 14.471 | 142 | 210405 | 6.676 | ppbv | | 95 |
| 81) 1,2,4-Trichlorobenzene | 13.455 | 180 | 241031 | 8.517 | ppbv | | 99 |

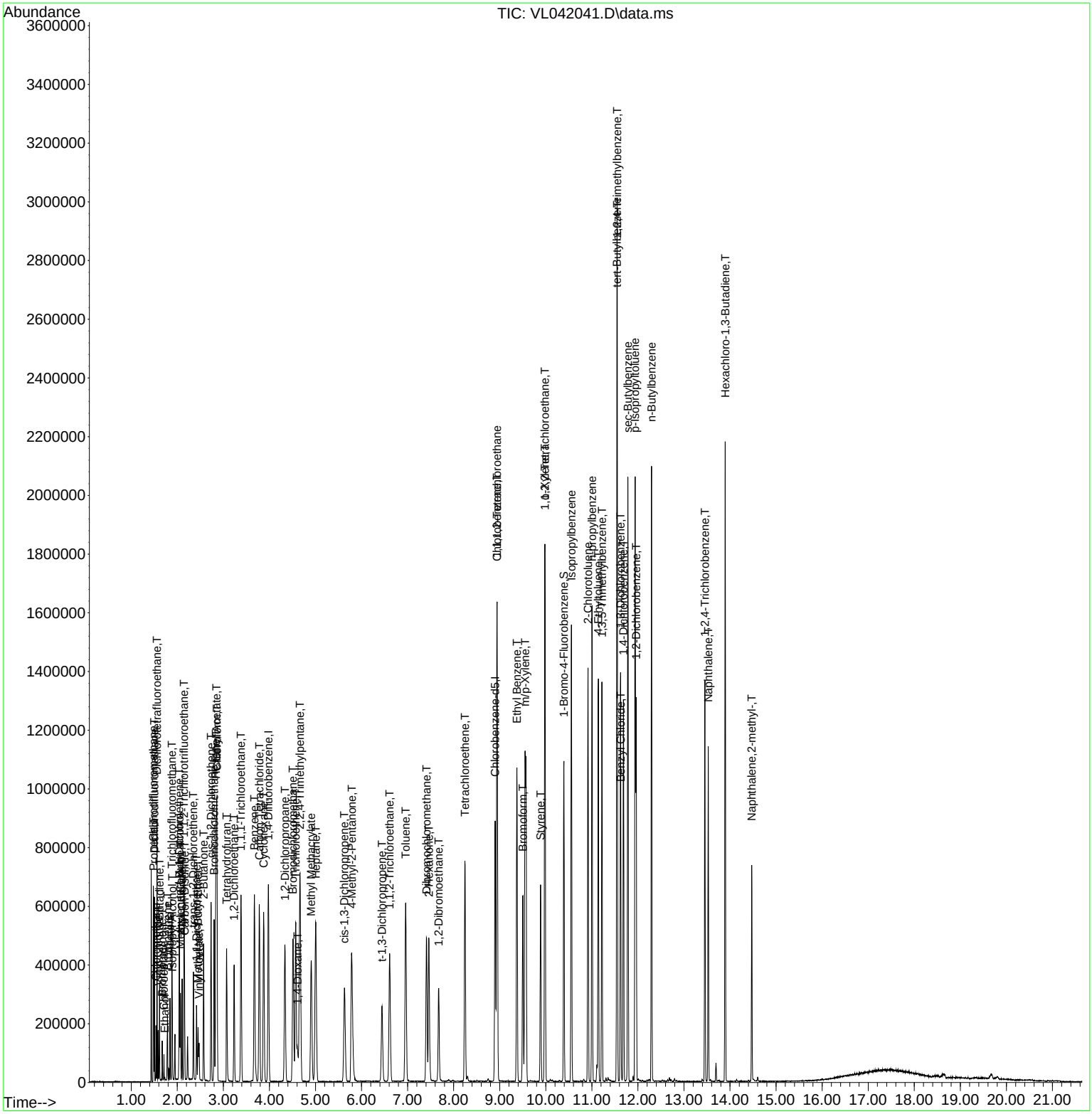
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042041.D
Acq On : 25 Feb 2025 08:56
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 25 10:10:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Feb 18 00:13:37 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

**Manual Integrations APPROVED**
Reviewed By :Mahesh Dadoda 03/06/2025
Supervised By :Semsettin Yesilyurt 03/06/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042042.D
Acq On : 25 Feb 2025 09:29
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 25 10:12:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Feb 18 00:13:37 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) Bromochloromethane | 2.800 | 49 | 160999 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.981 | 114 | 427051 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.901 | 117 | 377910 | 10.000 | ppbv | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.393 | 95 | 289049 | 9.273 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 92.700% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.505 | 85 | 35122 | 1.267 | ppbv | | 95 |
| 3) Chlorodifluoromethane | 1.483 | 51 | 49423 | 1.613 | ppbv | | 94 |
| 4) Chloromethane | 1.538 | 50 | 12833 | 1.192 | ppbv | # | 87 |
| 5) Vinyl Chloride | 1.586 | 62 | 11611 | 0.902 | ppbv | | 97 |
| 6) Bromomethane | 1.674 | 94 | 5996 | 1.201 | ppbv | | 97 |
| 7) Chloroethane | 1.712 | 64 | 5014 | 1.195 | ppbv | | 90 |
| 8) Dichlorotetrafluoroethane | 1.560 | 85 | 29028 | 1.191 | ppbv | | 99 |
| 9) Propene | 1.489 | 41 | 20484 | 1.551 | ppbv | | 95 |
| 10) Heptane | 5.004 | 43 | 63098 | 1.720 | ppbv | | 94 |
| 11) Trichlorofluoromethane | 1.884 | 101 | 36041 | 1.292 | ppbv | | 98 |
| 12) 1,1,2-Trichlorotrifluo... | 2.149 | 101 | 27846 | 1.280 | ppbv | | 90 |
| 13) Ethanol | 1.729 | 45 | 1291 | 0.866 | ppbv | | 91 |
| 14) Bromoethene | 1.790 | 108 | 9642 | 1.187 | ppbv | | 93 |
| 15) Acetone | 1.842 | 43 | 30058 | 1.131 | ppbv | | 100 |
| 16) 1,3-Butadiene | 1.615 | 39 | 13471 | 1.069 | ppbv | | 100 |
| 17) tert-Butyl alcohol | 2.052 | 59 | 38684 | 1.176 | ppbv | | 96 |
| 18) 1,1-Dichloroethene | 2.043 | 96 | 12417 | 1.195 | ppbv | | 93 |
| 19) Isopropyl Alcohol | 1.894 | 45 | 17927 | 1.203 | ppbv | | 96 |
| 20) Methylene Chloride | 2.072 | 84 | 10587 | 1.058 | ppbv | # | 80 |
| 21) Allyl Chloride | 2.107 | 41 | 20564 | 1.069 | ppbv | | 96 |
| 22) trans-1,2-Dichloroethene | 2.350 | 96 | 14475 | 1.283 | ppbv | | 81 |
| 23) Vinyl Acetate | 2.473 | 43 | 22394 | 1.556 | ppbv | # | 94 |
| 24) 1,1-Dichloroethane | 2.421 | 63 | 27804 | 1.214 | ppbv | | 99 |
| 25) Ethyl Acetate | 2.852 | 43 | 121593 | 1.667 | ppbv | | 100 |
| 26) Hexane | 2.839 | 57 | 48912 | 1.671 | ppbv | | 98 |
| 27) Carbon Disulfide | 2.159 | 76 | 33222 | 1.207 | ppbv | # | 57 |
| 28) Methyl tert-Butyl Ether | 2.457 | 73 | 26968 | 1.507 | ppbv | | 100 |
| 29) Chloroform | 2.865 | 83 | 63463 | 1.497 | ppbv | | 92 |
| 30) Cyclohexane | 3.878 | 84 | 40420 | 1.702 | ppbv | | 98 |
| 31) cis-1,2-Dichloroethene | 2.732 | 61 | 46690 | 1.614 | ppbv | | 96 |
| 32) 1,1,1-Trichloroethane | 3.386 | 97 | 62586 | 1.331 | ppbv | | 97 |
| 34) 2-Butanone | 2.573 | 43 | 69370 | 1.888 | ppbv | | 96 |
| 35) Carbon Tetrachloride | 3.784 | 117 | 61895 | 1.493 | ppbv | | 97 |
| 36) Benzene | 3.677 | 78 | 94277 | 1.822 | ppbv | | 98 |
| 37) 1,2-Dichloroethane | 3.237 | 62 | 51050 | 1.734 | ppbv | | 99 |
| 38) Trichloroethene | 4.574 | 130 | 38184 | 1.817 | ppbv | | 99 |
| 39) 1,2-Dichloropropane | 4.341 | 63 | 35396 | 1.866 | ppbv | | 95 |
| 40) 1,4-Dioxane | 4.622 | 88 | 15442 | 1.565 | ppbv | # | 28 |
| 41) Tetrahydrofuran | 3.075 | 42 | 40365 | 1.922 | ppbv | | 96 |
| 42) Bromodichloromethane | 4.512 | 83 | 69154 | 1.733 | ppbv | | 94 |
| 43) Methyl Methacrylate | 4.910 | 69 | 36393 | 1.543 | ppbv | | 94 |
| 44) 2,2,4-Trimethylpentane | 4.664 | 57 | 166945 | 1.901 | ppbv | | 97 |
| 45) t-1,3-Dichloropropene | 6.448 | 75 | 35707 | 1.604 | ppbv | | 93 |

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042042.D
Acq On : 25 Feb 2025 09:29
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 25 10:12:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Feb 18 00:13:37 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.632 | 75 | 46835 | 1.658 | ppbv | | 93 |
| 47) 1,1,2-Trichloroethane | 6.613 | 97 | 36368 | 1.822 | ppbv | | 93 |
| 48) Dibromochloromethane | 7.412 | 129 | 56931 | 1.703 | ppbv | | 99 |
| 49) Bromoform | 9.503 | 173 | 50259 | 1.833 | ppbv | | 99 |
| 50) 4-Methyl-2-Pentanone | 5.797 | 43 | 83246 | 1.474 | ppbv | | 99 |
| 51) 2-Hexanone | 7.470 | 43 | 51926 | 1.124 | ppbv | # | 94 |
| 52) Tetrachloroethene | 8.244 | 164 | 32874 | 1.822 | ppbv | | 95 |
| 53) Toluene | 6.962 | 91 | 109646 | 1.779 | ppbv | | 98 |
| 54) 1,2-Dibromoethane | 7.678 | 107 | 50010 | 1.820 | ppbv | | 97 |
| 56) 1,1,1,2-Tetrachloroethane | 8.946 | 131 | 44947 | 1.662 | ppbv | | 98 |
| 57) Chlorobenzene | 8.943 | 112 | 84749 | 1.906 | ppbv | | 95 |
| 58) Ethyl Benzene | 9.374 | 91 | 149185 | 1.804 | ppbv | | 99 |
| 59) m/p-Xylene | 9.568 | 91 | 238800m | 3.666 | ppbv | | |
| 60) o-Xylene | 9.982 | 91 | 119170 | 1.809 | ppbv | | 97 |
| 61) Styrene | 9.888 | 104 | 55798 | 1.776 | ppbv | | 96 |
| 62) Isopropylbenzene | 10.555 | 105 | 181311 | 1.833 | ppbv | | 97 |
| 63) 1,1,2,2-Tetrachloroethane | 9.982 | 83 | 77911 | 1.833 | ppbv | | 96 |
| 64) n-propylbenzene | 11.005 | 120 | 47764 | 1.965 | ppbv | | 92 |
| 65) tert-Butylbenzene | 11.545 | 119 | 167973 | 1.948 | ppbv | | 96 |
| 66) Benzyl Chloride | 11.630 | 91 | 12304 | 1.423 | ppbv | # | 98 |
| 67) sec-Butylbenzene | 11.782 | 105 | 240504 | 1.986 | ppbv | | 99 |
| 69) p-Isopropyltoluene | 11.940 | 119 | 194660 | 1.963 | ppbv | | 99 |
| 70) n-Butylbenzene | 12.296 | 91 | 194416 | 1.991 | ppbv | | 99 |
| 71) 2-Chlorotoluene | 10.917 | 91 | 140068 | 1.880 | ppbv | | 98 |
| 72) 4-Ethyltoluene | 11.141 | 105 | 150038 | 1.944 | ppbv | | 98 |
| 73) 1,3,5-Trimethylbenzene | 11.218 | 105 | 128202 | 1.925 | ppbv | | 99 |
| 74) 1,2,4-Trimethylbenzene | 11.549 | 105 | 150380 | 2.104 | ppbv | # | 88 |
| 75) 1,3-Dichlorobenzene | 11.623 | 146 | 81884 | 2.129 | ppbv | | 98 |
| 76) 1,4-Dichlorobenzene | 11.688 | 146 | 82560 | 2.201 | ppbv | | 97 |
| 77) 1,2-Dichlorobenzene | 11.963 | 146 | 80367 | 2.186 | ppbv | | 96 |
| 78) Hexachloro-1,3-Butadiene | 13.895 | 225 | 63815 | 2.098 | ppbv | | 99 |
| 79) Naphthalene | 13.526 | 128 | 102197 | 1.454 | ppbv | | 98 |
| 80) Naphthalene,2-methyl- | 14.475 | 142 | 18104 | 0.569 | ppbv | | 94 |
| 81) 1,2,4-Trichlorobenzene | 13.455 | 180 | 57798 | 2.023 | ppbv | | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

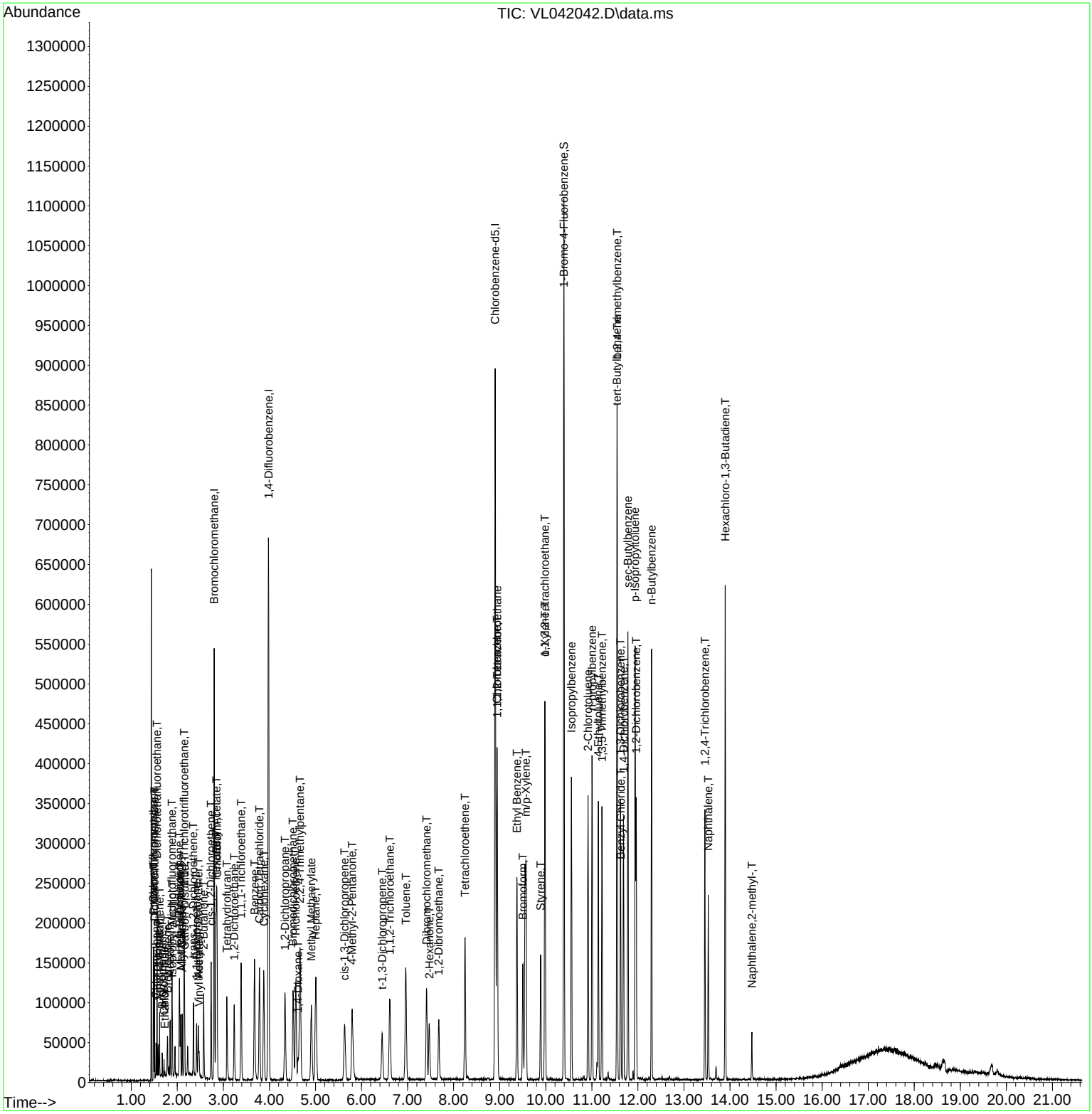
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042042.D
Acq On : 25 Feb 2025 09:29
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 25 10:12:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Feb 18 00:13:37 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042043.D
Acq On : 25 Feb 2025 10:00
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 10:27:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Feb 25 10:15:00 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) Bromochloromethane | 2.800 | 49 | 161096 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.978 | 114 | 423363 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.898 | 117 | 369917 | 10.000 | ppbv | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.390 | 95 | 287450 | 9.420 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 94.200% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.502 | 85 | 17457 | 0.629 | ppbv | | 95 |
| 3) Chlorodifluoromethane | 1.479 | 51 | 25229 | 0.823 | ppbv | | 98 |
| 4) Chloromethane | 1.538 | 50 | 6417 | 0.595 | ppbv | # | 75 |
| 5) Vinyl Chloride | 1.586 | 62 | 5567 | 0.432 | ppbv | | 96 |
| 6) Bromomethane | 1.674 | 94 | 2966 | 0.594 | ppbv | | 100 |
| 7) Chloroethane | 1.709 | 64 | 2542 | 0.605 | ppbv | | 96 |
| 8) Dichlorotetrafluoroethane | 1.560 | 85 | 14655 | 0.601 | ppbv | | 90 |
| 9) Propene | 1.486 | 41 | 10156 | 0.768 | ppbv | | 96 |
| 10) Heptane | 4.998 | 43 | 31354m | 0.854 | ppbv | | |
| 11) Trichlorofluoromethane | 1.884 | 101 | 18079 | 0.648 | ppbv | | 98 |
| 12) 1,1,2-Trichlorotrifluo... | 2.149 | 101 | 14527 | 0.667 | ppbv | | 92 |
| 13) Ethanol | 1.725 | 45 | 915m | 0.614 | ppbv | | |
| 14) Bromoethene | 1.787 | 108 | 4905 | 0.604 | ppbv | # | 95 |
| 15) Acetone | 1.845 | 43 | 15468 | 0.582 | ppbv | | 98 |
| 16) 1,3-Butadiene | 1.615 | 39 | 7010 | 0.556 | ppbv | | 99 |
| 17) tert-Butyl alcohol | 2.052 | 59 | 19092 | 0.580 | ppbv | | 97 |
| 18) 1,1-Dichloroethene | 2.043 | 96 | 7042 | 0.677 | ppbv | | 94 |
| 19) Isopropyl Alcohol | 1.894 | 45 | 9191 | 0.616 | ppbv | # | 32 |
| 20) Methylene Chloride | 2.068 | 84 | 6026 | 0.602 | ppbv | | 95 |
| 21) Allyl Chloride | 2.104 | 41 | 11550 | 0.600 | ppbv | | 95 |
| 22) trans-1,2-Dichloroethene | 2.347 | 96 | 8145m | 0.722 | ppbv | | |
| 23) Vinyl Acetate | 2.473 | 43 | 9893 | 0.687 | ppbv | # | 91 |
| 24) 1,1-Dichloroethane | 2.418 | 63 | 13783 | 0.601 | ppbv | | 98 |
| 25) Ethyl Acetate | 2.852 | 43 | 59183 | 0.811 | ppbv | | 99 |
| 26) Hexane | 2.836 | 57 | 23549 | 0.804 | ppbv | | 96 |
| 27) Carbon Disulfide | 2.159 | 76 | 15659 | 0.568 | ppbv | # | 46 |
| 28) Methyl tert-Butyl Ether | 2.454 | 73 | 13593 | 0.759 | ppbv | | 95 |
| 29) Chloroform | 2.861 | 83 | 32925 | 0.776 | ppbv | | 94 |
| 30) Cyclohexane | 3.874 | 84 | 19953 | 0.840 | ppbv | | 97 |
| 31) cis-1,2-Dichloroethene | 2.732 | 61 | 22565 | 0.780 | ppbv | | 97 |
| 32) 1,1,1-Trichloroethane | 3.386 | 97 | 30870 | 0.656 | ppbv | | 96 |
| 34) 2-Butanone | 2.570 | 43 | 33820 | 0.929 | ppbv | | 99 |
| 35) Carbon Tetrachloride | 3.777 | 117 | 30618 | 0.745 | ppbv | | 90 |
| 36) Benzene | 3.674 | 78 | 45892 | 0.895 | ppbv | | 96 |
| 37) 1,2-Dichloroethane | 3.234 | 62 | 25585 | 0.876 | ppbv | | 99 |
| 38) Trichloroethene | 4.570 | 130 | 18921 | 0.908 | ppbv | | 91 |
| 39) 1,2-Dichloropropane | 4.334 | 63 | 17557 | 0.934 | ppbv | | 94 |
| 40) 1,4-Dioxane | 4.619 | 88 | 8319m | 0.850 | ppbv | | |
| 41) Tetrahydrofuran | 3.075 | 42 | 20823 | 1.000 | ppbv | | 96 |
| 42) Bromodichloromethane | 4.515 | 83 | 33481 | 0.847 | ppbv | | 97 |
| 43) Methyl Methacrylate | 4.907 | 69 | 17679 | 0.756 | ppbv | | 99 |
| 44) 2,2,4-Trimethylpentane | 4.661 | 57 | 81921 | 0.941 | ppbv | | 98 |
| 45) t-1,3-Dichloropropene | 6.444 | 75 | 16578m | 0.751 | ppbv | | |

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042043.D
Acq On : 25 Feb 2025 10:00
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 10:27:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Feb 25 10:15:00 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.632 | 75 | 22127m | 0.790 | ppbv | | |
| 47) 1,1,2-Trichloroethane | 6.616 | 97 | 18160m | 0.918 | ppbv | | |
| 48) Dibromochloromethane | 7.412 | 129 | 28239 | 0.852 | ppbv | | 97 |
| 49) Bromoform | 9.500 | 173 | 23310 | 0.858 | ppbv | | 94 |
| 50) 4-Methyl-2-Pentanone | 5.791 | 43 | 41249m | 0.737 | ppbv | | |
| 51) 2-Hexanone | 7.470 | 43 | 24117 | 0.527 | ppbv | # | 97 |
| 52) Tetrachloroethene | 8.241 | 164 | 16217 | 0.907 | ppbv | | 89 |
| 53) Toluene | 6.959 | 91 | 51231 | 0.838 | ppbv | | 99 |
| 54) 1,2-Dibromoethane | 7.674 | 107 | 23427 | 0.860 | ppbv | | 94 |
| 56) 1,1,1,2-Tetrachloroethane | 8.943 | 131 | 22060 | 0.833 | ppbv | | 97 |
| 57) Chlorobenzene | 8.937 | 112 | 41173 | 0.946 | ppbv | | 96 |
| 58) Ethyl Benzene | 9.370 | 91 | 70507 | 0.871 | ppbv | | 97 |
| 59) m/p-Xylene | 9.568 | 91 | 114691m | 1.799 | ppbv | | |
| 60) o-Xylene | 9.979 | 91 | 57322 | 0.889 | ppbv | | 99 |
| 61) Styrene | 9.885 | 104 | 26596 | 0.865 | ppbv | | 98 |
| 62) Isopropylbenzene | 10.555 | 105 | 86533 | 0.894 | ppbv | | 100 |
| 63) 1,1,2,2-Tetrachloroethane | 9.979 | 83 | 38520 | 0.926 | ppbv | | 98 |
| 64) n-propylbenzene | 11.002 | 120 | 22456 | 0.944 | ppbv | | 94 |
| 65) tert-Butylbenzene | 11.545 | 119 | 83284 | 0.987 | ppbv | | 99 |
| 66) Benzyl Chloride | 11.626 | 91 | 5880m | 0.695 | ppbv | | |
| 67) sec-Butylbenzene | 11.782 | 105 | 119435 | 1.007 | ppbv | | 99 |
| 69) p-Isopropyltoluene | 11.940 | 119 | 93710 | 0.966 | ppbv | | 99 |
| 70) n-Butylbenzene | 12.293 | 91 | 94969 | 0.993 | ppbv | | 98 |
| 71) 2-Chlorotoluene | 10.914 | 91 | 67655 | 0.928 | ppbv | | 98 |
| 72) 4-Ethyltoluene | 11.137 | 105 | 71906 | 0.952 | ppbv | | 99 |
| 73) 1,3,5-Trimethylbenzene | 11.215 | 105 | 64087 | 0.983 | ppbv | | 96 |
| 74) 1,2,4-Trimethylbenzene | 11.549 | 105 | 73323 | 1.048 | ppbv | | 100 |
| 75) 1,3-Dichlorobenzene | 11.620 | 146 | 41063 | 1.091 | ppbv | | 99 |
| 76) 1,4-Dichlorobenzene | 11.685 | 146 | 39235 | 1.068 | ppbv | | 99 |
| 77) 1,2-Dichlorobenzene | 11.960 | 146 | 40574 | 1.127 | ppbv | | 98 |
| 78) Hexachloro-1,3-Butadiene | 13.895 | 225 | 30764 | 1.033 | ppbv | | 99 |
| 79) Naphthalene | 13.526 | 128 | 45743 | 0.665 | ppbv | | 98 |
| 80) Naphthalene,2-methyl- | 14.471 | 142 | 5244 | 0.168 | ppbv | | 94 |
| 81) 1,2,4-Trichlorobenzene | 13.452 | 180 | 25404 | 0.908 | ppbv | | 95 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

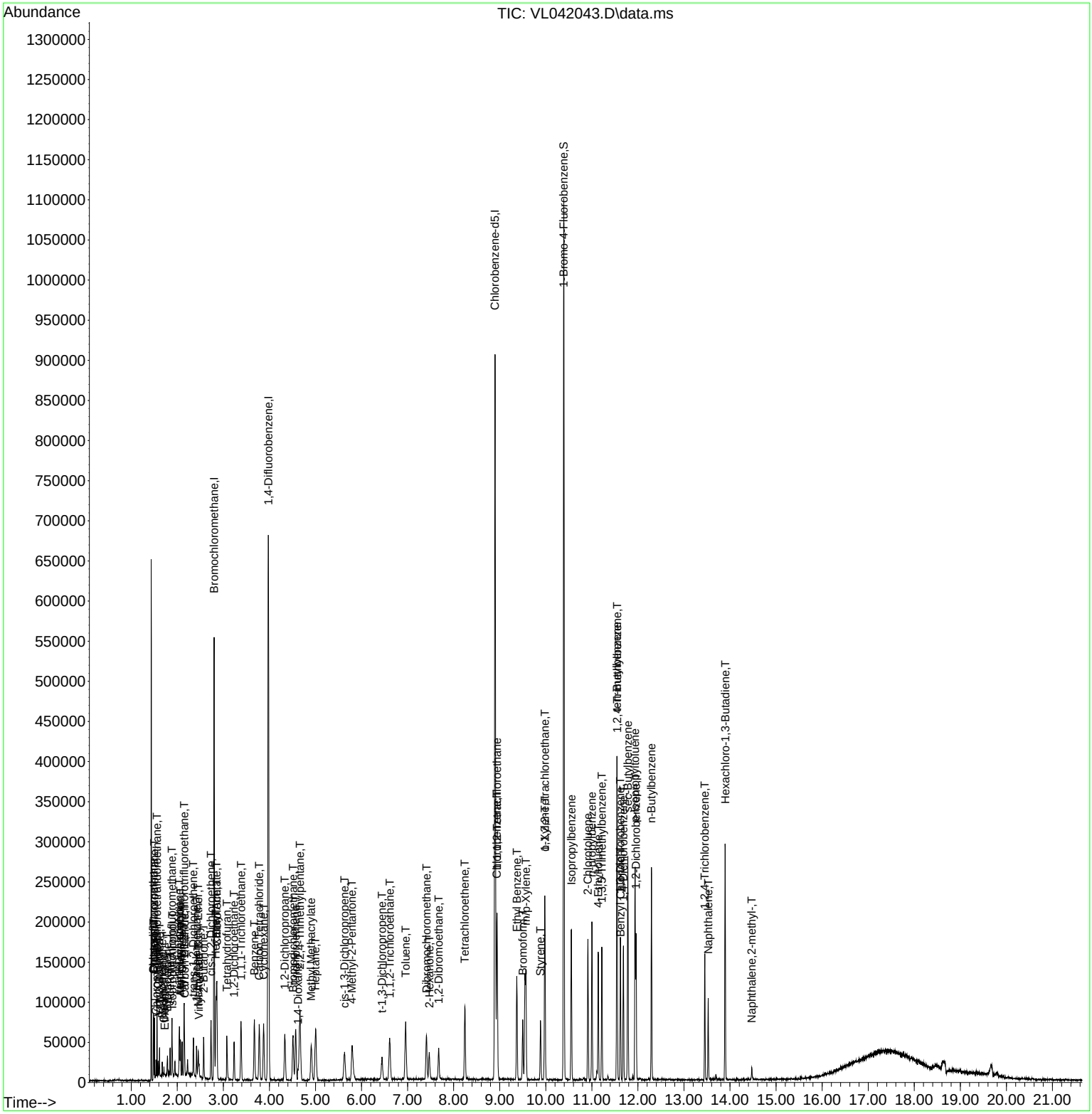
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042043.D
Acq On : 25 Feb 2025 10:00
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 10:27:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Feb 25 10:15:00 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042044.D
Acq On : 25 Feb 2025 10:31
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 10:56:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) Bromochloromethane | 2.797 | 49 | 159644 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.975 | 114 | 421340 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.898 | 117 | 365954 | 10.000 | ppbv | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.390 | 95 | 281042 | 9.310 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 93.100% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.502 | 85 | 8852 | 0.322 | ppbv | | 98 |
| 3) Chlorodifluoromethane | 1.479 | 51 | 11921 | 0.392 | ppbv | | 94 |
| 4) Chloromethane | 1.537 | 50 | 3497 | 0.327 | ppbv | # | 88 |
| 5) Vinyl Chloride | 1.583 | 62 | 3005 | 0.235 | ppbv | | 98 |
| 6) Bromomethane | 1.673 | 94 | 1359 | 0.275 | ppbv | | 92 |
| 7) Chloroethane | 1.709 | 64 | 1205 | 0.290 | ppbv | | 89 |
| 8) Dichlorotetrafluoroethane | 1.557 | 85 | 7123 | 0.295 | ppbv | | 99 |
| 9) Propene | 1.486 | 41 | 4904 | 0.374 | ppbv | | 94 |
| 10) Heptane | 5.004 | 43 | 15731 | 0.432 | ppbv | | 98 |
| 11) Trichlorofluoromethane | 1.884 | 101 | 8429 | 0.305 | ppbv | | 92 |
| 12) 1,1,2-Trichlorotrifluo... | 2.146 | 101 | 7336 | 0.340 | ppbv | | 98 |
| 13) Ethanol | 1.725 | 45 | 426 | 0.288 | ppbv | | 75 |
| 14) Bromoethene | 1.787 | 108 | 2598 | 0.323 | ppbv | # | 89 |
| 15) Acetone | 1.842 | 43 | 8655 | 0.328 | ppbv | | 96 |
| 16) 1,3-Butadiene | 1.615 | 39 | 3803 | 0.304 | ppbv | | 97 |
| 17) tert-Butyl alcohol | 2.049 | 59 | 9447 | 0.290 | ppbv | # | 90 |
| 18) 1,1-Dichloroethene | 2.039 | 96 | 3173 | 0.308 | ppbv | | 94 |
| 19) Isopropyl Alcohol | 1.894 | 45 | 4481 | 0.303 | ppbv | # | 32 |
| 20) Methylene Chloride | 2.068 | 84 | 3423 | 0.345 | ppbv | | 97 |
| 21) Allyl Chloride | 2.104 | 41 | 5640 | 0.296 | ppbv | | 100 |
| 22) trans-1,2-Dichloroethene | 2.347 | 96 | 3838m | 0.343 | ppbv | | |
| 23) Vinyl Acetate | 2.473 | 43 | 5499 | 0.385 | ppbv | # | 86 |
| 24) 1,1-Dichloroethane | 2.418 | 63 | 7396 | 0.326 | ppbv | # | 88 |
| 25) Ethyl Acetate | 2.848 | 43 | 30593 | 0.423 | ppbv | | 98 |
| 26) Hexane | 2.832 | 57 | 12739 | 0.439 | ppbv | | 98 |
| 27) Carbon Disulfide | 2.159 | 76 | 8316 | 0.305 | ppbv | # | 15 |
| 28) Methyl tert-Butyl Ether | 2.450 | 73 | 5185 | 0.292 | ppbv | # | 80 |
| 29) Chloroform | 2.858 | 83 | 17278 | 0.411 | ppbv | | 93 |
| 30) Cyclohexane | 3.874 | 84 | 9209 | 0.391 | ppbv | | 88 |
| 31) cis-1,2-Dichloroethene | 2.729 | 61 | 11344 | 0.395 | ppbv | | 97 |
| 32) 1,1,1-Trichloroethane | 3.382 | 97 | 15027 | 0.322 | ppbv | | 93 |
| 34) 2-Butanone | 2.570 | 43 | 17555 | 0.484 | ppbv | | 99 |
| 35) Carbon Tetrachloride | 3.780 | 117 | 14223 | 0.348 | ppbv | | 90 |
| 36) Benzene | 3.670 | 78 | 22728 | 0.445 | ppbv | | 95 |
| 37) 1,2-Dichloroethane | 3.230 | 62 | 13141 | 0.452 | ppbv | | 100 |
| 38) Trichloroethene | 4.570 | 130 | 9115 | 0.440 | ppbv | # | 87 |
| 39) 1,2-Dichloropropane | 4.331 | 63 | 8877m | 0.474 | ppbv | | |
| 40) 1,4-Dioxane | 4.622 | 88 | 4046m | 0.416 | ppbv | | |
| 41) Tetrahydrofuran | 3.078 | 42 | 9880 | 0.477 | ppbv | | 98 |
| 42) Bromodichloromethane | 4.505 | 83 | 16973 | 0.431 | ppbv | # | 96 |
| 43) Methyl Methacrylate | 4.904 | 69 | 8428 | 0.362 | ppbv | | 93 |
| 44) 2,2,4-Trimethylpentane | 4.661 | 57 | 40623 | 0.469 | ppbv | | 98 |
| 45) t-1,3-Dichloropropene | 6.441 | 75 | 8720m | 0.397 | ppbv | | |

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042044.D
Acq On : 25 Feb 2025 10:31
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 10:56:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.629 | 75 | 10834m | 0.389 | ppbv | | |
| 47) 1,1,2-Trichloroethane | 6.609 | 97 | 8982m | 0.456 | ppbv | | |
| 48) Dibromochloromethane | 7.406 | 129 | 13014m | 0.395 | ppbv | | |
| 49) Bromoform | 9.496 | 173 | 11640 | 0.430 | ppbv | | 98 |
| 50) 4-Methyl-2-Pentanone | 5.794 | 43 | 20992m | 0.377 | ppbv | | |
| 51) 2-Hexanone | 7.470 | 43 | 12149m | 0.267 | ppbv | | |
| 52) Tetrachloroethene | 8.241 | 164 | 8012 | 0.450 | ppbv | | 95 |
| 53) Toluene | 6.956 | 91 | 24224 | 0.398 | ppbv | | 96 |
| 54) 1,2-Dibromoethane | 7.674 | 107 | 11718m | 0.432 | ppbv | | |
| 56) 1,1,1,2-Tetrachloroethane | 8.940 | 131 | 11100 | 0.424 | ppbv | # | 61 |
| 57) Chlorobenzene | 8.936 | 112 | 20167 | 0.468 | ppbv | | 97 |
| 58) Ethyl Benzene | 9.370 | 91 | 34506 | 0.431 | ppbv | | 90 |
| 59) m/p-Xylene | 9.568 | 91 | 54449m | 0.863 | ppbv | | |
| 60) o-Xylene | 9.979 | 91 | 28757 | 0.451 | ppbv | | 95 |
| 61) Styrene | 9.885 | 104 | 12051 | 0.396 | ppbv | | 99 |
| 62) Isopropylbenzene | 10.552 | 105 | 42074 | 0.439 | ppbv | | 100 |
| 63) 1,1,2,2-Tetrachloroethane | 9.975 | 83 | 18774 | 0.456 | ppbv | | 96 |
| 64) n-propylbenzene | 11.001 | 120 | 10900 | 0.463 | ppbv | | 100 |
| 65) tert-Butylbenzene | 11.542 | 119 | 38066 | 0.456 | ppbv | | 98 |
| 66) Benzyl Chloride | 11.626 | 91 | 2589 | 0.309 | ppbv | # | 96 |
| 67) sec-Butylbenzene | 11.778 | 105 | 54394 | 0.464 | ppbv | | 97 |
| 69) p-Isopropyltoluene | 11.937 | 119 | 40978 | 0.427 | ppbv | | 95 |
| 70) n-Butylbenzene | 12.293 | 91 | 42673 | 0.451 | ppbv | | 99 |
| 71) 2-Chlorotoluene | 10.914 | 91 | 32161 | 0.446 | ppbv | | 99 |
| 72) 4-Ethyltoluene | 11.137 | 105 | 32477 | 0.434 | ppbv | # | 95 |
| 73) 1,3,5-Trimethylbenzene | 11.215 | 105 | 29130 | 0.452 | ppbv | | 91 |
| 74) 1,2,4-Trimethylbenzene | 11.548 | 105 | 33950 | 0.491 | ppbv | | 97 |
| 75) 1,3-Dichlorobenzene | 11.616 | 146 | 20339 | 0.546 | ppbv | | 96 |
| 76) 1,4-Dichlorobenzene | 11.684 | 146 | 20492 | 0.564 | ppbv | | 93 |
| 77) 1,2-Dichlorobenzene | 11.959 | 146 | 19373 | 0.544 | ppbv | | 96 |
| 78) Hexachloro-1,3-Butadiene | 13.892 | 225 | 15367 | 0.522 | ppbv | | 99 |
| 79) Naphthalene | 13.523 | 128 | 17897 | 0.263 | ppbv | # | 95 |
| 80) Naphthalene,2-methyl- | 14.478 | 142 | 1646 | 0.053 | ppbv | # | 81 |
| 81) 1,2,4-Trichlorobenzene | 13.452 | 180 | 10771 | 0.389 | ppbv | | 94 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

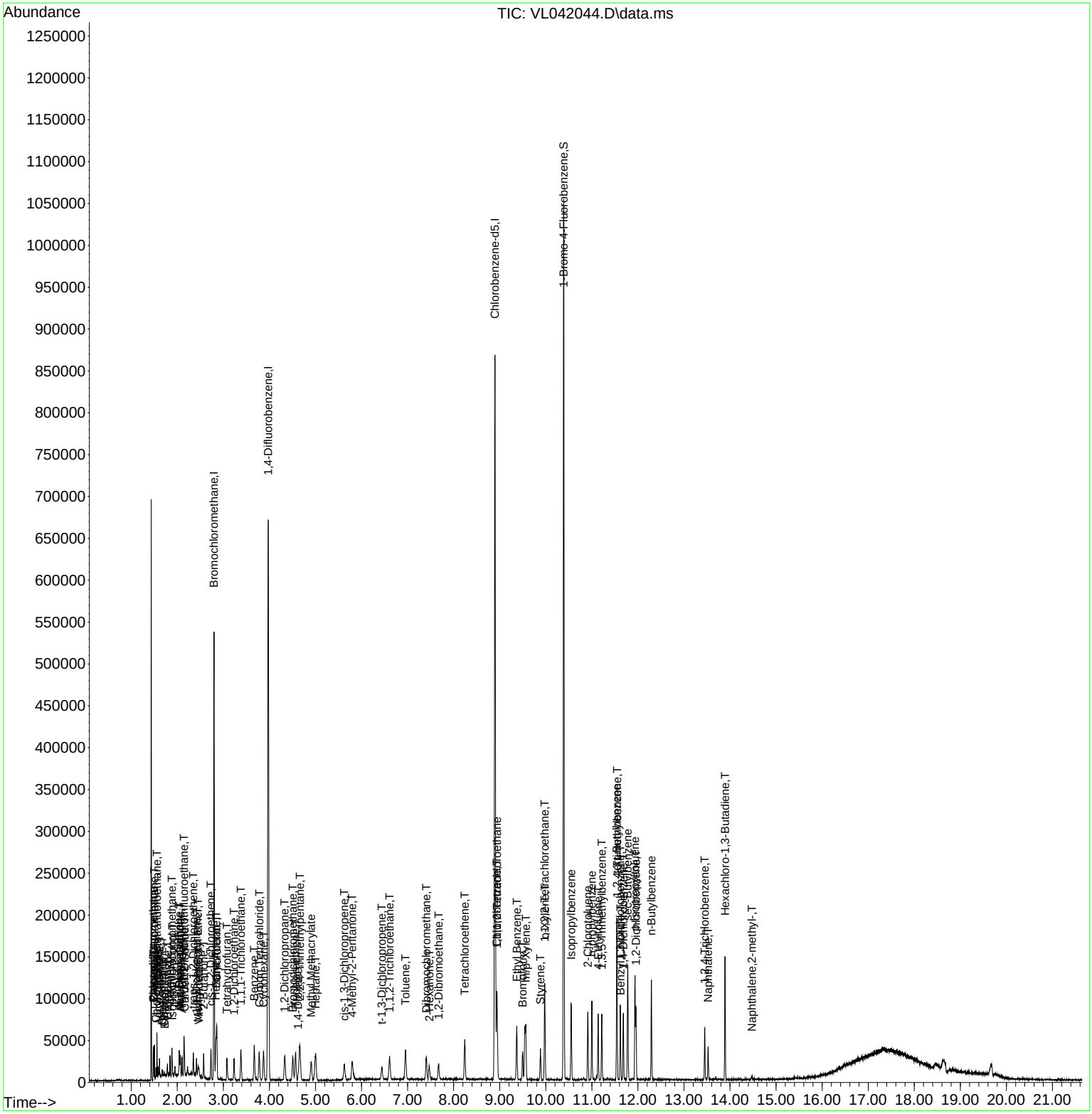
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042044.D
Acq On : 25 Feb 2025 10:31
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 10:56:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042045.D
Acq On : 25 Feb 2025 11:03
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 12:33:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.803 | 49 | 161406 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.981 | 114 | 414875 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.904 | 117 | 363831 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.393 | 95 | 276484 | 9.213 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 92.100% | | | |
| Target Compounds | | | | | | Qvalue |
| 5) Vinyl Chloride | 1.586 | 62 | 543 | 0.042 | ppbv | # 88 |
| 32) 1,1,1-Trichloroethane | 3.386 | 97 | 3026 | 0.064 | ppbv | # 86 |
| 35) Carbon Tetrachloride | 3.787 | 117 | 2923m | 0.073 | ppbv | |
| 38) Trichloroethene | 4.577 | 130 | 1915m | 0.094 | ppbv | |
| 52) Tetrachloroethene | 8.254 | 164 | 1552m | 0.089 | ppbv | |
| 54) 1,2-Dibromoethane | 7.678 | 107 | 2335m | 0.087 | ppbv | |
| 63) 1,1,2,2-Tetrachloroethane | 9.982 | 83 | 3549m | 0.087 | ppbv | |
| 79) Naphthalene | 13.529 | 128 | 3058 | 0.045 | ppbv | # 91 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

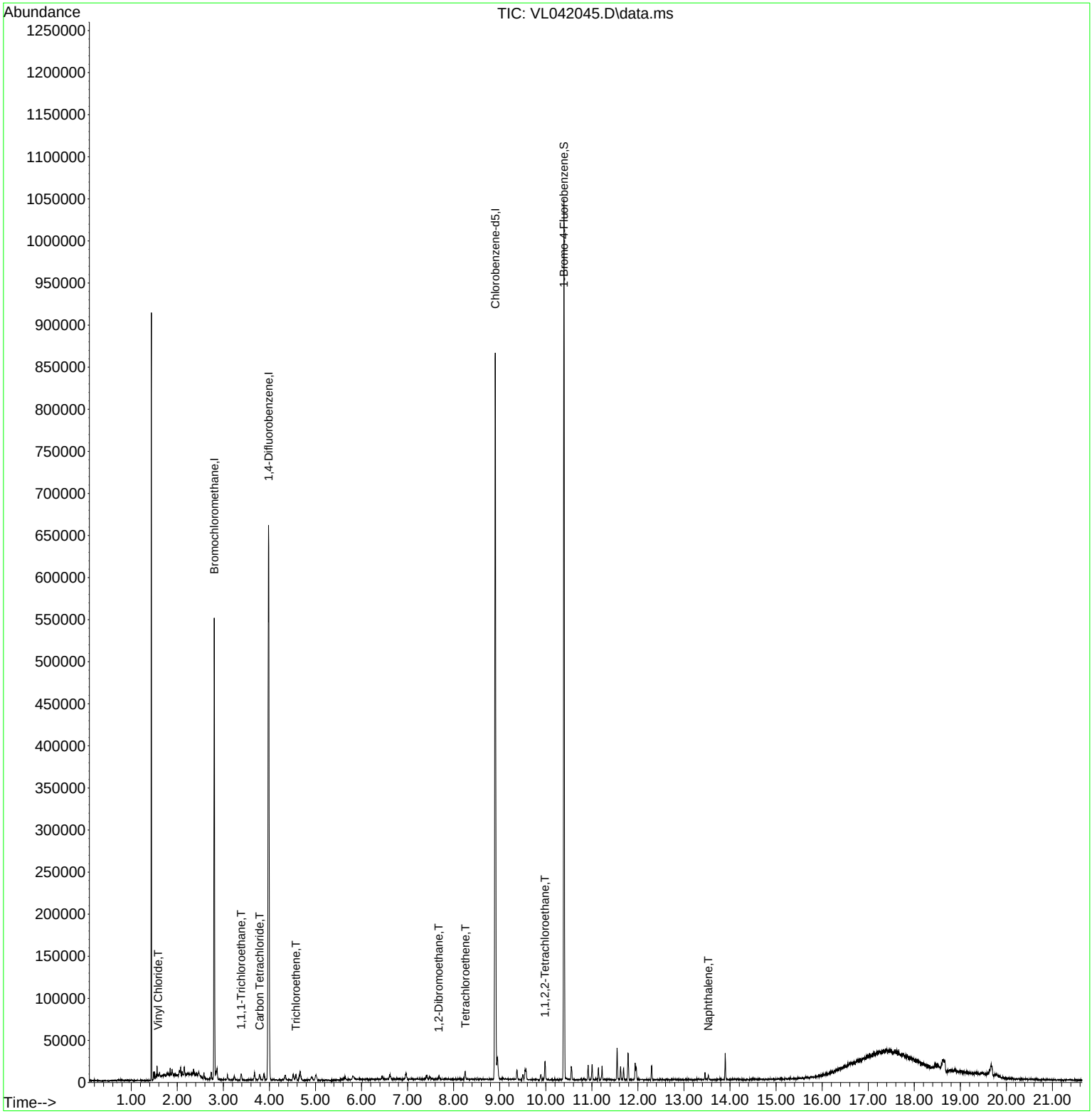
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042045.D
Acq On : 25 Feb 2025 11:03
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 12:33:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042046.D
Acq On : 25 Feb 2025 11:34
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 12:34:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.797 | 49 | 160156 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.975 | 114 | 410900 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.898 | 117 | 353154 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.390 | 95 | 272906 | 9.368 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 93.700% | | | |
| Target Compounds | | | | | | Qvalue |
| 5) Vinyl Chloride | 1.586 | 62 | 215 | 0.017 | ppbv | 89 |
| 32) 1,1,1-Trichloroethane | 3.379 | 97 | 923m | 0.020 | ppbv | |
| 35) Carbon Tetrachloride | 3.784 | 117 | 818m | 0.021 | ppbv | |
| 38) Trichloroethene | 4.577 | 130 | 551m | 0.027 | ppbv | |
| 52) Tetrachloroethene | 8.237 | 164 | 397m | 0.023 | ppbv | |
| 63) 1,1,2,2-Tetrachloroethane | 9.979 | 83 | 1058m | 0.027 | ppbv | |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

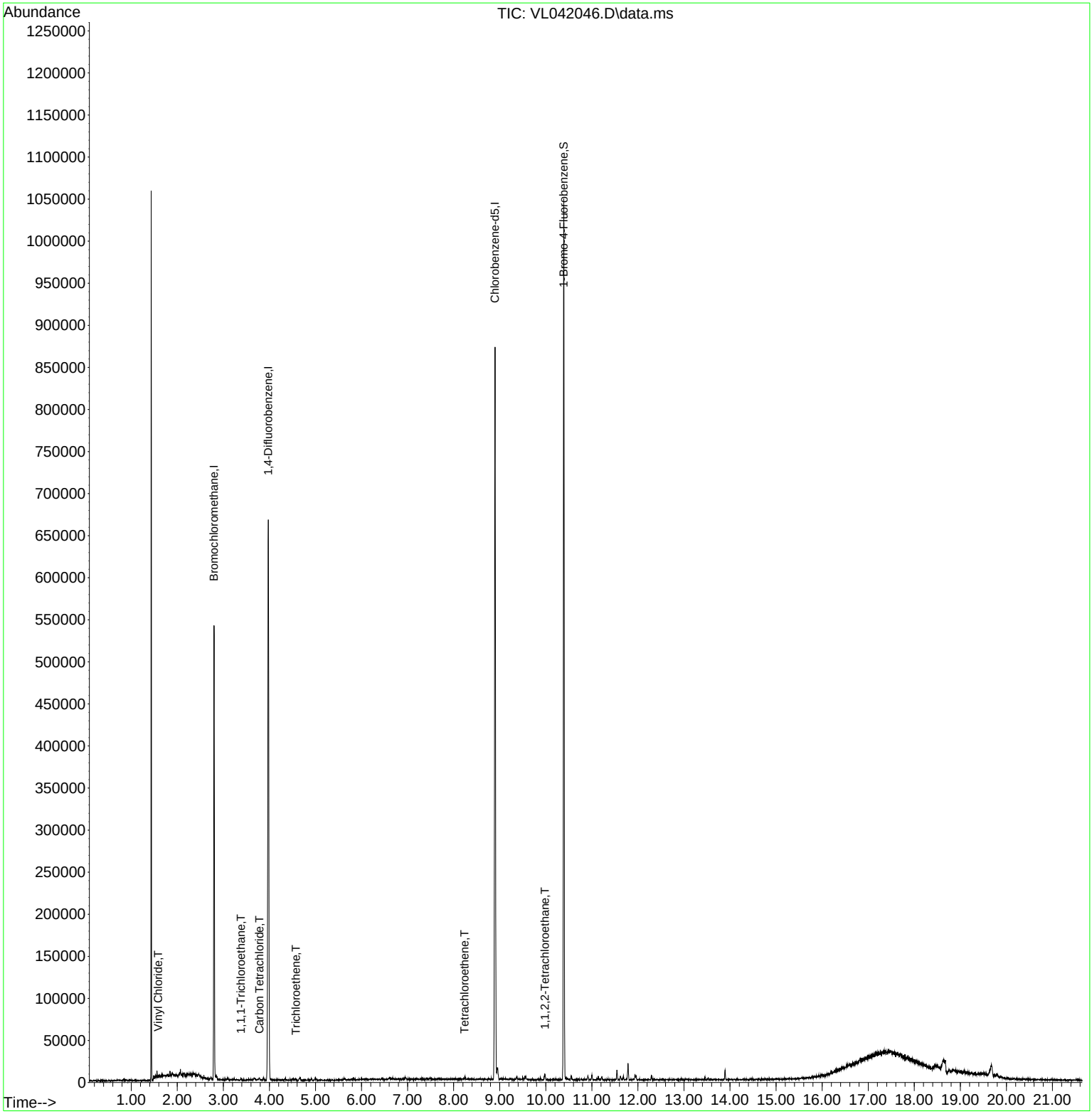
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042046.D
Acq On : 25 Feb 2025 11:34
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 12:34:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042047.D
Acq On : 25 Feb 2025 12:07
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 12:35:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.800 | 49 | 159015 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.978 | 114 | 401919 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.904 | 117 | 351637 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.393 | 95 | 273846 | 9.441 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 94.400% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.502 | 85 | 231978 | 8.474 | ppbv | 99 |
| 3) Chlorodifluoromethane | 1.479 | 51 | 324821 | 10.733 | ppbv | 100 |
| 4) Chloromethane | 1.537 | 50 | 82097 | 7.718 | ppbv | 98 |
| 5) Vinyl Chloride | 1.586 | 62 | 81863 | 6.436 | ppbv | 99 |
| 6) Bromomethane | 1.673 | 94 | 39366 | 7.983 | ppbv | 97 |
| 7) Chloroethane | 1.709 | 64 | 33329 | 8.039 | ppbv | 92 |
| 8) Dichlorotetrafluoroethane | 1.560 | 85 | 188716 | 7.837 | ppbv | 98 |
| 9) Propene | 1.489 | 41 | 133086 | 10.201 | ppbv | 97 |
| 10) Heptane | 5.004 | 43 | 400418 | 11.052 | ppbv | 99 |
| 11) Trichlorofluoromethane | 1.884 | 101 | 230938 | 8.383 | ppbv | 95 |
| 12) 1,1,2-Trichlorotrifluo... | 2.149 | 101 | 184306 | 8.579 | ppbv | 99 |
| 13) Ethanol | 1.725 | 45 | 4281 | 2.909 | ppbv | 100 |
| 14) Bromoethene | 1.787 | 108 | 65496 | 8.164 | ppbv | 99 |
| 15) Acetone | 1.842 | 43 | 172538 | 6.574 | ppbv | 98 |
| 16) 1,3-Butadiene | 1.615 | 39 | 87490 | 7.027 | ppbv | 100 |
| 17) tert-Butyl alcohol | 2.049 | 59 | 239569 | 7.377 | ppbv | 98 |
| 18) 1,1-Dichloroethene | 2.042 | 96 | 80535 | 7.845 | ppbv | 98 |
| 19) Isopropyl Alcohol | 1.894 | 45 | 102365 | 6.955 | ppbv | 99 |
| 20) Methylene Chloride | 2.068 | 84 | 66282 | 6.709 | ppbv | 98 |
| 21) Allyl Chloride | 2.104 | 41 | 140726 | 7.406 | ppbv | 99 |
| 22) trans-1,2-Dichloroethene | 2.350 | 96 | 94321 | 8.466 | ppbv | 95 |
| 23) Vinyl Acetate | 2.473 | 43 | 139727 | 9.831 | ppbv | 99 |
| 24) 1,1-Dichloroethane | 2.418 | 63 | 180882 | 7.997 | ppbv | 99 |
| 25) Ethyl Acetate | 2.848 | 43 | 767353 | 10.652 | ppbv | 99 |
| 26) Hexane | 2.839 | 57 | 306864 | 10.615 | ppbv | 99 |
| 27) Carbon Disulfide | 2.159 | 76 | 224609 | 8.261 | ppbv | 98 |
| 28) Methyl tert-Butyl Ether | 2.453 | 73 | 168058 | 9.510 | ppbv | 98 |
| 29) Chloroform | 2.861 | 83 | 409240 | 9.774 | ppbv | 100 |
| 30) Cyclohexane | 3.874 | 84 | 256687 | 10.946 | ppbv | 98 |
| 31) cis-1,2-Dichloroethene | 2.732 | 61 | 299324 | 10.476 | ppbv | 96 |
| 32) 1,1,1-Trichloroethane | 3.386 | 97 | 417615 | 8.994 | ppbv | 98 |
| 34) 2-Butanone | 2.570 | 43 | 457602 | 13.234 | ppbv | 98 |
| 35) Carbon Tetrachloride | 3.780 | 117 | 410730 | 10.524 | ppbv | 96 |
| 36) Benzene | 3.674 | 78 | 602107 | 12.367 | ppbv | 97 |
| 37) 1,2-Dichloroethane | 3.233 | 62 | 335275 | 12.097 | ppbv | 99 |
| 38) Trichloroethene | 4.573 | 130 | 228298 | 11.542 | ppbv | 98 |
| 39) 1,2-Dichloropropane | 4.337 | 63 | 228418 | 12.797 | ppbv | 98 |
| 40) 1,4-Dioxane | 4.609 | 88 | 104519 | 11.253 | ppbv # | 96 |
| 41) Tetrahydrofuran | 3.068 | 42 | 271202 | 13.724 | ppbv | 100 |
| 42) Bromodichloromethane | 4.512 | 83 | 461272 | 12.285 | ppbv | 96 |
| 43) Methyl Methacrylate | 4.907 | 69 | 246468 | 11.105 | ppbv | 97 |
| 44) 2,2,4-Trimethylpentane | 4.667 | 57 | 1054880 | 12.763 | ppbv | 99 |
| 45) t-1,3-Dichloropropene | 6.444 | 75 | 249612 | 11.914 | ppbv | 95 |

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042047.D
Acq On : 25 Feb 2025 12:07
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 12:35:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.635 | 75 | 317266 | 11.935 | ppbv | | 98 |
| 47) 1,1,2-Trichloroethane | 6.609 | 97 | 226021 | 12.032 | ppbv | | 95 |
| 48) Dibromochloromethane | 7.412 | 129 | 369666 | 11.750 | ppbv | | 99 |
| 49) Bromoform | 9.503 | 173 | 317322 | 12.297 | ppbv | | 99 |
| 50) 4-Methyl-2-Pentanone | 5.787 | 43 | 650307 | 12.237 | ppbv | | 99 |
| 51) 2-Hexanone | 7.461 | 43 | 530165 | 12.198 | ppbv | # | 100 |
| 52) Tetrachloroethene | 8.247 | 164 | 203233 | 11.968 | ppbv | | 94 |
| 53) Toluene | 6.959 | 91 | 673822 | 11.615 | ppbv | | 99 |
| 54) 1,2-Dibromoethane | 7.677 | 107 | 309982 | 11.985 | ppbv | | 95 |
| 56) 1,1,1,2-Tetrachloroethane | 8.946 | 131 | 276326 | 10.979 | ppbv | | 99 |
| 57) Chlorobenzene | 8.943 | 112 | 494606 | 11.957 | ppbv | | 98 |
| 58) Ethyl Benzene | 9.373 | 91 | 922265 | 11.984 | ppbv | | 100 |
| 59) m/p-Xylene | 9.571 | 91 | 1456036m | 24.020 | ppbv | | |
| 60) o-Xylene | 9.982 | 91 | 712735 | 11.626 | ppbv | | 99 |
| 61) Styrene | 9.888 | 104 | 363855 | 12.446 | ppbv | | 99 |
| 62) Isopropylbenzene | 10.558 | 105 | 1068777 | 11.612 | ppbv | | 99 |
| 63) 1,1,2,2-Tetrachloroethane | 9.982 | 83 | 459839 | 11.626 | ppbv | | 100 |
| 64) n-propylbenzene | 11.005 | 120 | 282364 | 12.486 | ppbv | | 99 |
| 65) tert-Butylbenzene | 11.548 | 119 | 924810 | 11.526 | ppbv | | 99 |
| 66) Benzyl Chloride | 11.633 | 91 | 78975 | 9.819 | ppbv | | 98 |
| 67) sec-Butylbenzene | 11.785 | 105 | 1315730 | 11.674 | ppbv | | 99 |
| 69) p-Isopropyltoluene | 11.940 | 119 | 1084253 | 11.752 | ppbv | | 99 |
| 70) n-Butylbenzene | 12.296 | 91 | 1118373 | 12.306 | ppbv | | 99 |
| 71) 2-Chlorotoluene | 10.917 | 91 | 818204 | 11.804 | ppbv | | 100 |
| 72) 4-Ethyltoluene | 11.141 | 105 | 880883 | 12.264 | ppbv | | 99 |
| 73) 1,3,5-Trimethylbenzene | 11.218 | 105 | 738619 | 11.921 | ppbv | | 98 |
| 74) 1,2,4-Trimethylbenzene | 11.552 | 105 | 784701 | 11.801 | ppbv | | 91 |
| 75) 1,3-Dichlorobenzene | 11.623 | 146 | 465436 | 13.003 | ppbv | | 98 |
| 76) 1,4-Dichlorobenzene | 11.688 | 146 | 467249 | 13.386 | ppbv | | 99 |
| 77) 1,2-Dichlorobenzene | 11.963 | 146 | 449222 | 13.129 | ppbv | | 98 |
| 78) Hexachloro-1,3-Butadiene | 13.895 | 225 | 351085 | 12.403 | ppbv | | 100 |
| 79) Naphthalene | 13.526 | 128 | 764990 | 11.696 | ppbv | | 99 |
| 80) Naphthalene,2-methyl- | 14.471 | 142 | 324431 | 10.956 | ppbv | | 99 |
| 81) 1,2,4-Trichlorobenzene | 13.455 | 180 | 354990 | 13.351 | ppbv | | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

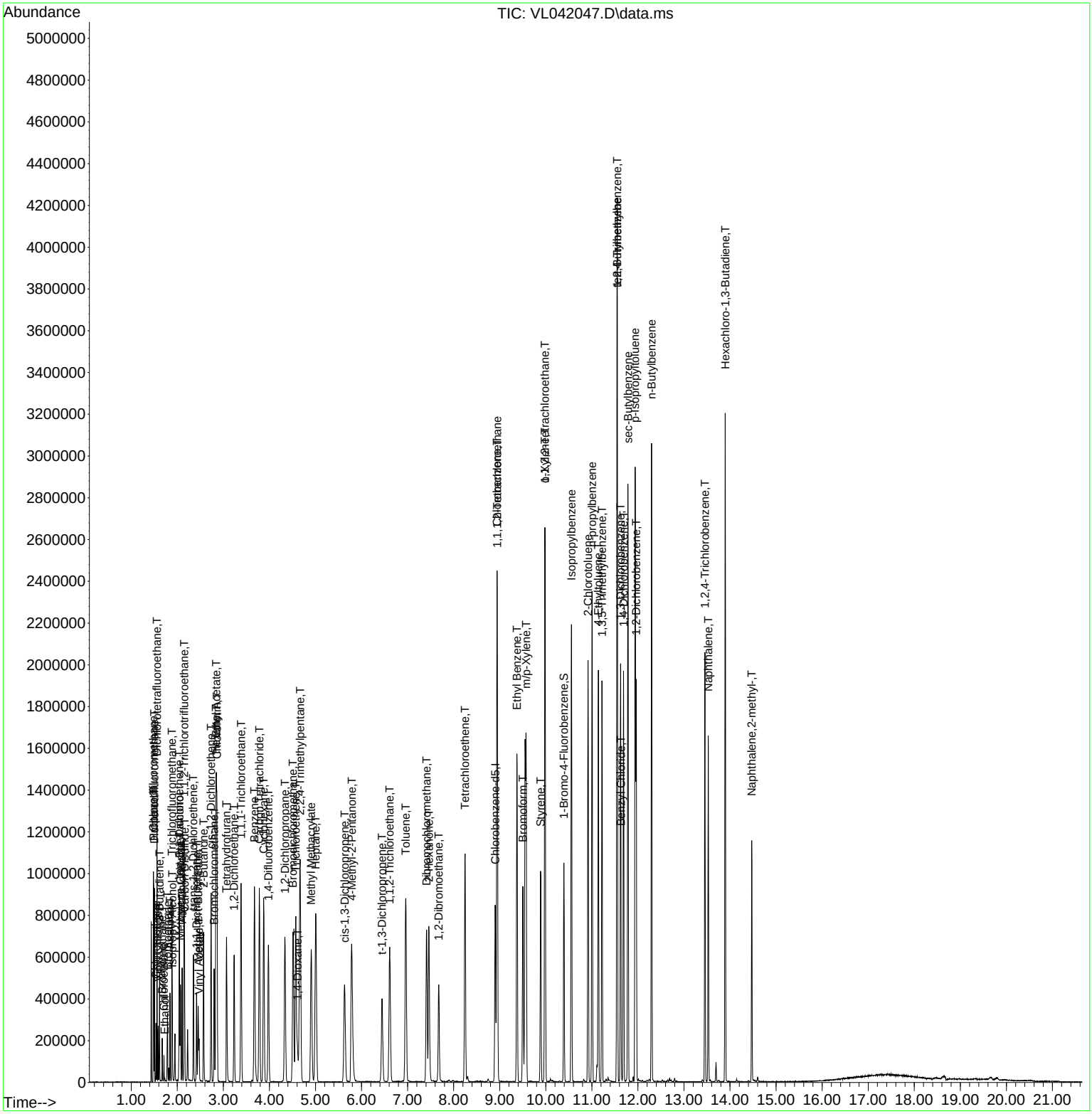
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042047.D
Acq On : 25 Feb 2025 12:07
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 12:35:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042048.D
Acq On : 25 Feb 2025 13:15
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 26 01:31:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL022525

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) Bromochloromethane | 2.800 | 49 | 158881 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.981 | 114 | 406520 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.904 | 117 | 350262 | 10.000 | ppbv | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.393 | 95 | 274527 | 10.188 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 101.900% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.505 | 85 | 158709 | 9.606 | ppbv | | 99 |
| 3) Chlorodifluoromethane | 1.479 | 51 | 219646 | 9.512 | ppbv | | 100 |
| 4) Chloromethane | 1.537 | 50 | 54628 | 8.941 | ppbv | | 100 |
| 5) Vinyl Chloride | 1.586 | 62 | 52672 | 9.114 | ppbv | | 98 |
| 6) Bromomethane | 1.673 | 94 | 25374 | 9.221 | ppbv | | 100 |
| 7) Chloroethane | 1.709 | 64 | 22174 | 9.443 | ppbv | # | 87 |
| 8) Dichlorotetrafluoroethane | 1.560 | 85 | 127046 | 9.354 | ppbv | | 100 |
| 9) Propene | 1.489 | 41 | 90844 | 9.657 | ppbv | | 96 |
| 10) Heptane | 5.010 | 43 | 269133 | 9.188 | ppbv | | 99 |
| 11) Trichlorofluoromethane | 1.884 | 101 | 156871 | 9.476 | ppbv | | 100 |
| 12) 1,1,2-Trichlorotrifluo... | 2.149 | 101 | 115089 | 8.715 | ppbv | | 99 |
| 13) Ethanol | 1.728 | 45 | 2630 | 4.404 | ppbv | | 98 |
| 14) Bromoethene | 1.790 | 108 | 43546 | 9.338 | ppbv | | 98 |
| 15) Acetone | 1.842 | 43 | 118697 | 8.460 | ppbv | | 97 |
| 16) 1,3-Butadiene | 1.615 | 39 | 61603 | 9.434 | ppbv | | 98 |
| 17) tert-Butyl alcohol | 2.049 | 59 | 154116 | 8.779 | ppbv | | 98 |
| 18) 1,1-Dichloroethene | 2.042 | 96 | 51973 | 8.711 | ppbv | | 98 |
| 19) Isopropyl Alcohol | 1.894 | 45 | 69546 | 8.629 | ppbv | | 96 |
| 20) Methylene Chloride | 2.072 | 84 | 42028 | 7.919 | ppbv | | 96 |
| 21) Allyl Chloride | 2.104 | 41 | 90745 | 8.951 | ppbv | | 98 |
| 22) trans-1,2-Dichloroethene | 2.350 | 96 | 59140 | 8.502 | ppbv | | 98 |
| 23) Vinyl Acetate | 2.476 | 43 | 93605 | 9.488 | ppbv | # | 98 |
| 24) 1,1-Dichloroethane | 2.421 | 63 | 112869 | 8.721 | ppbv | | 100 |
| 25) Ethyl Acetate | 2.852 | 43 | 533113 | 9.492 | ppbv | | 99 |
| 26) Hexane | 2.839 | 57 | 208955 | 9.203 | ppbv | | 97 |
| 27) Carbon Disulfide | 2.159 | 76 | 138176 | 8.978 | ppbv | | 97 |
| 28) Methyl tert-Butyl Ether | 2.453 | 73 | 94554 | 8.365 | ppbv | | 100 |
| 29) Chloroform | 2.865 | 83 | 281191 | 9.202 | ppbv | | 97 |
| 30) Cyclohexane | 3.878 | 84 | 168830 | 9.161 | ppbv | | 94 |
| 31) cis-1,2-Dichloroethene | 2.735 | 61 | 199564 | 9.285 | ppbv | | 99 |
| 32) 1,1,1-Trichloroethane | 3.386 | 97 | 278512 | 9.396 | ppbv | | 98 |
| 34) 2-Butanone | 2.570 | 43 | 308064 | 9.727 | ppbv | | 97 |
| 35) Carbon Tetrachloride | 3.784 | 117 | 276599 | 9.867 | ppbv | | 98 |
| 36) Benzene | 3.677 | 78 | 399804 | 9.395 | ppbv | | 98 |
| 37) 1,2-Dichloroethane | 3.233 | 62 | 223946 | 9.491 | ppbv | | 99 |
| 38) Trichloroethene | 4.573 | 130 | 156488 | 9.005 | ppbv | | 96 |
| 39) 1,2-Dichloropropane | 4.340 | 63 | 152063 | 9.414 | ppbv | | 97 |
| 40) 1,4-Dioxane | 4.616 | 88 | 65010 | 8.817 | ppbv | # | 98 |
| 41) Tetrahydrofuran | 3.072 | 42 | 181453 | 9.696 | ppbv | | 99 |
| 42) Bromodichloromethane | 4.512 | 83 | 305385 | 9.606 | ppbv | | 97 |
| 43) Methyl Methacrylate | 4.910 | 69 | 160954 | 9.685 | ppbv | | 95 |
| 44) 2,2,4-Trimethylpentane | 4.667 | 57 | 712051 | 9.480 | ppbv | | 99 |
| 45) t-1,3-Dichloropropene | 6.447 | 75 | 159680 | 9.671 | ppbv | | 90 |

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042048.D
Acq On : 25 Feb 2025 13:15
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 26 01:31:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL022525

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.635 | 75 | 206836 | 9.680 | ppbv | | 96 |
| 47) 1,1,2-Trichloroethane | 6.613 | 97 | 148220 | 9.039 | ppbv | | 95 |
| 48) Dibromochloromethane | 7.412 | 129 | 241593 | 9.407 | ppbv | | 100 |
| 49) Bromoform | 9.503 | 173 | 210370 | 9.432 | ppbv | | 98 |
| 50) 4-Methyl-2-Pentanone | 5.790 | 43 | 431123 | 10.526 | ppbv | | 98 |
| 51) 2-Hexanone | 7.464 | 43 | 354515 | 12.576 | ppbv | # | 100 |
| 52) Tetrachloroethene | 8.247 | 164 | 134062 | 9.202 | ppbv | | 97 |
| 53) Toluene | 6.962 | 91 | 448495 | 9.430 | ppbv | | 98 |
| 54) 1,2-Dibromoethane | 7.677 | 107 | 206335 | 9.307 | ppbv | | 96 |
| 56) 1,1,1,2-Tetrachloroethane | 8.946 | 131 | 182800 | 9.234 | ppbv | | 99 |
| 57) Chlorobenzene | 8.943 | 112 | 334696 | 9.216 | ppbv | | 99 |
| 58) Ethyl Benzene | 9.377 | 91 | 613622 | 9.513 | ppbv | | 99 |
| 59) m/p-Xylene | 9.571 | 91 | 977425m | 19.041 | ppbv | | |
| 60) o-Xylene | 9.985 | 91 | 481683 | 9.334 | ppbv | | 100 |
| 61) Styrene | 9.891 | 104 | 241617 | 9.959 | ppbv | | 99 |
| 62) Isopropylbenzene | 10.558 | 105 | 729350 | 9.437 | ppbv | | 100 |
| 63) 1,1,2,2-Tetrachloroethane | 9.982 | 83 | 312794 | 9.204 | ppbv | | 99 |
| 64) n-propylbenzene | 11.008 | 120 | 192704 | 9.506 | ppbv | | 99 |
| 65) tert-Butylbenzene | 11.548 | 119 | 632202 | 8.988 | ppbv | | 100 |
| 66) Benzyl Chloride | 11.633 | 91 | 52645 | 9.808 | ppbv | | 98 |
| 67) sec-Butylbenzene | 11.785 | 105 | 914405 | 9.090 | ppbv | | 99 |
| 69) p-Isopropyltoluene | 11.940 | 119 | 753761 | 9.418 | ppbv | | 100 |
| 70) n-Butylbenzene | 12.296 | 91 | 781034 | 9.560 | ppbv | | 99 |
| 71) 2-Chlorotoluene | 10.917 | 91 | 559993 | 9.399 | ppbv | | 100 |
| 72) 4-Ethyltoluene | 11.144 | 105 | 602156 | 9.557 | ppbv | | 99 |
| 73) 1,3,5-Trimethylbenzene | 11.222 | 105 | 505451 | 9.248 | ppbv | | 100 |
| 74) 1,2,4-Trimethylbenzene | 11.555 | 105 | 547176 | 8.891 | ppbv | | 95 |
| 75) 1,3-Dichlorobenzene | 11.623 | 146 | 324491 | 9.161 | ppbv | | 98 |
| 76) 1,4-Dichlorobenzene | 11.688 | 146 | 322712 | 9.176 | ppbv | | 99 |
| 77) 1,2-Dichlorobenzene | 11.963 | 146 | 312159 | 9.081 | ppbv | | 99 |
| 78) Hexachloro-1,3-Butadiene | 13.895 | 225 | 228480 | 8.543 | ppbv | | 99 |
| 79) Naphthalene | 13.529 | 128 | 513148 | 12.160 | ppbv | | 98 |
| 80) Naphthalene,2-methyl- | 14.474 | 142 | 198077 | 17.152 | ppbv | | 98 |
| 81) 1,2,4-Trichlorobenzene | 13.455 | 180 | 234354 | 9.965 | ppbv | | 97 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

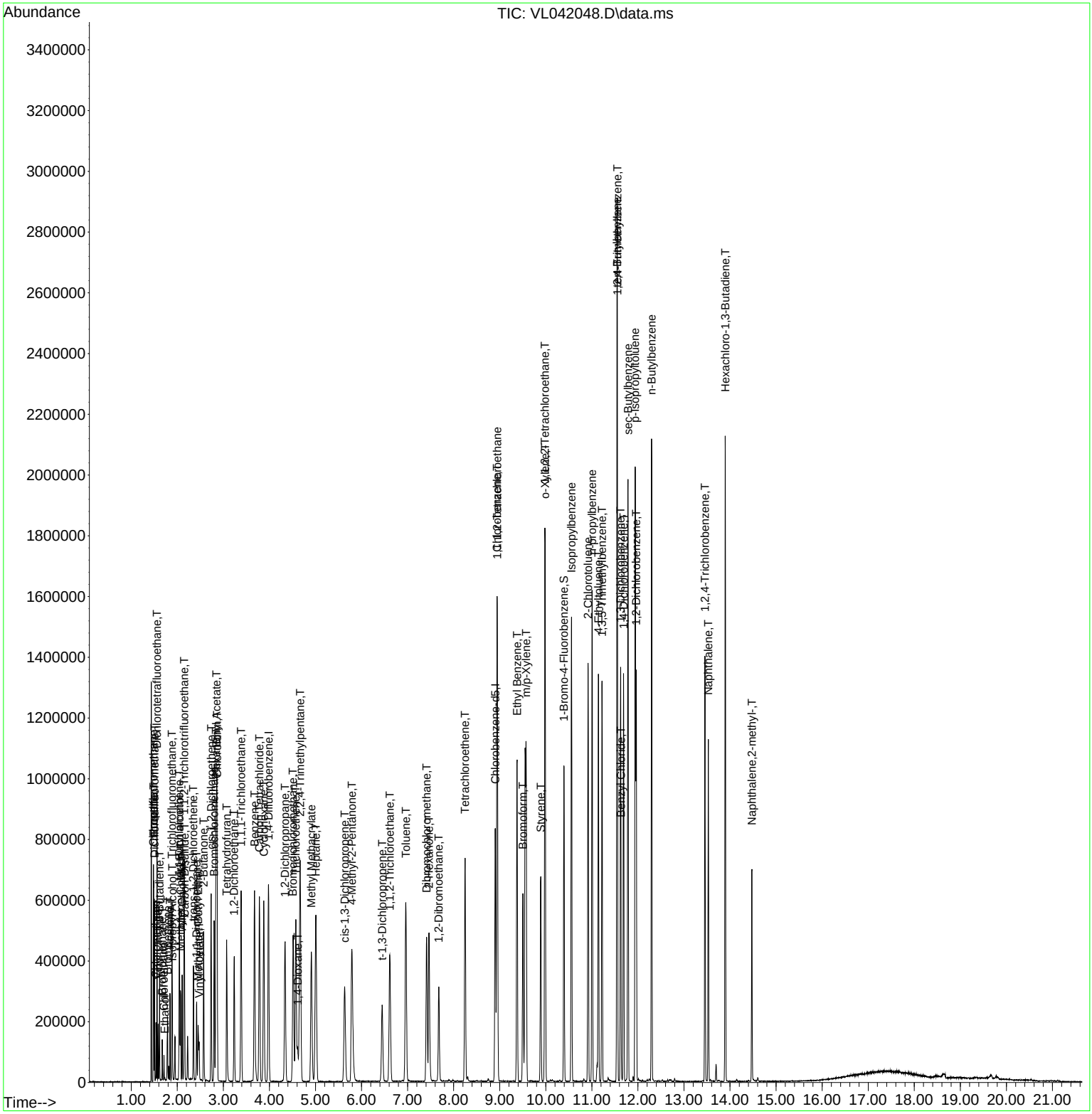
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042048.D
Acq On : 25 Feb 2025 13:15
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 26 01:31:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL022525

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042048.D
Acq On : 25 Feb 2025 13:15
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL022525

Quant Time: Feb 26 01:31:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Bromochloromethane | 1.000 | 1.000 | 0.0 | 99 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 1.040 | 0.999 | 3.9 | 104 | 0.00 |
| 3 | | Chlorodifluoromethane | 1.453 | 1.382 | 4.9 | 104 | 0.00 |
| 4 | | Chloromethane | 0.385 | 0.344 | 10.6 | 99 | 0.00 |
| 5 | T | Vinyl Chloride | 0.364 | 0.332 | 8.8 | 97 | 0.00 |
| 6 | T | Bromomethane | 0.173 | 0.160 | 7.5 | 98 | 0.00 |
| 7 | | Chloroethane | 0.148 | 0.140 | 5.4 | 102 | 0.00 |
| 8 | T | Dichlorotetrafluoroethane | 0.855 | 0.800 | 6.4 | 101 | 0.00 |
| 9 | T | Propene | 0.592 | 0.572 | 3.4 | 108 | 0.00 |
| 10 | T | Heptane | 1.844 | 1.694 | 8.1 | 100 | 0.00 |
| 11 | T | Trichlorofluoromethane | 1.042 | 0.987 | 5.3 | 103 | 0.00 |
| 12 | T | 1,1,2-Trichlorotrifluoroeth | 0.831 | 0.724 | 12.9 | 102 | 0.00 |
| 13 | | Ethanol | 0.038 | 0.017# | 55.3# | 83 | 0.00 |
| 14 | T | Bromoethene | 0.293 | 0.274 | 6.5 | 103 | 0.00 |
| 15 | T | Acetone | 0.883 | 0.747 | 15.4 | 103 | 0.00 |
| 16 | T | 1,3-Butadiene | 0.411 | 0.388 | 5.6 | 107 | 0.00 |
| 17 | | tert-Butyl alcohol | 1.105 | 0.970 | 12.2 | 101 | 0.00 |
| 18 | T | 1,1-Dichloroethene | 0.376 | 0.327 | 13.0 | 101 | 0.00 |
| 19 | T | Isopropyl Alcohol | 0.507 | 0.438 | 13.6 | 103 | 0.00 |
| 20 | T | Methylene Chloride | 0.334 | 0.265 | 20.7 | 100 | 0.00 |
| 21 | T | Allyl Chloride | 0.638 | 0.571 | 10.5 | 105 | 0.00 |
| 22 | T | trans-1,2-Dichloroethene | 0.438 | 0.372 | 15.1 | 103 | 0.00 |
| 23 | T | Vinyl Acetate | 0.621 | 0.589 | 5.2 | 112 | 0.00 |
| 24 | T | 1,1-Dichloroethane | 0.815 | 0.710 | 12.9 | 105 | 0.00 |
| 25 | T | Ethyl Acetate | 3.535 | 3.355 | 5.1 | 104 | 0.00 |
| 26 | T | Hexane | 1.429 | 1.315 | 8.0 | 101 | 0.00 |
| 27 | T | Carbon Disulfide | 0.969 | 0.870 | 10.2 | 100 | 0.00 |
| 28 | T | Methyl tert-Butyl Ether | 0.711 | 0.595 | 16.3 | 112 | 0.00 |
| 29 | T | Chloroform | 1.923 | 1.770 | 8.0 | 101 | 0.00 |
| 30 | T | Cyclohexane | 1.160 | 1.063 | 8.4 | 97 | 0.00 |
| 31 | T | cis-1,2-Dichloroethene | 1.353 | 1.256 | 7.2 | 100 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 1.866 | 1.753 | 6.1 | 98 | 0.00 |
| 33 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 96 | 0.00 |
| 34 | T | 2-Butanone | 0.779 | 0.758 | 2.7 | 105 | 0.00 |
| 35 | T | Carbon Tetrachloride | 0.690 | 0.680 | 1.4 | 100 | 0.00 |
| 36 | T | Benzene | 1.047 | 0.983 | 6.1 | 98 | 0.00 |
| 37 | T | 1,2-Dichloroethane | 0.580 | 0.551 | 5.0 | 102 | 0.00 |
| 38 | T | Trichloroethene | 0.427 | 0.385 | 9.8 | 98 | 0.00 |
| 39 | T | 1,2-Dichloropropane | 0.397 | 0.374 | 5.8 | 101 | 0.00 |
| 40 | T | 1,4-Dioxane | 0.181 | 0.160 | 11.6 | 94 | 0.00 |
| 41 | T | Tetrahydrofuran | 0.460 | 0.446 | 3.0 | 103 | 0.00 |
| 42 | T | Bromodichloromethane | 0.782 | 0.751 | 4.0 | 98 | 0.00 |
| 43 | | Methyl Methacrylate | 0.409 | 0.396 | 3.2 | 97 | 0.00 |
| 44 | T | 2,2,4-Trimethylpentane | 1.848 | 1.752 | 5.2 | 101 | 0.00 |
| 45 | T | t-1,3-Dichloropropene | 0.406 | 0.393 | 3.2 | 96 | 0.00 |
| 46 | T | cis-1,3-Dichloropropene | 0.526 | 0.509 | 3.2 | 95 | 0.00 |
| 47 | T | 1,1,2-Trichloroethane | 0.403 | 0.365 | 9.4 | 97 | 0.00 |
| 48 | T | Dibromochloromethane | 0.632 | 0.594 | 6.0 | 96 | 0.00 |

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042048.D
Acq On : 25 Feb 2025 13:15
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL022525

Quant Time: Feb 26 01:31:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | Bromoform | 0.549 | 0.517 | 5.8 | 95 | 0.00 |
| 50 | T | 4-Methyl-2-Pentanone | 1.008 | 1.061 | -5.3 | 101 | 0.00 |
| 51 | T | 2-Hexanone | 0.693 | 0.872 | -25.8 | 101 | 0.00 |
| 52 | T | Tetrachloroethene | 0.358 | 0.330 | 7.8 | 97 | 0.00 |
| 53 | T | Toluene | 1.170 | 1.103 | 5.7 | 97 | 0.00 |
| 54 | T | 1,2-Dibromoethane | 0.545 | 0.508 | 6.8 | 98 | 0.00 |
| 55 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 94 | 0.00 |
| 56 | | 1,1,1,2-Tetrachloroethane | 0.565 | 0.522 | 7.6 | 97 | 0.00 |
| 57 | T | Chlorobenzene | 1.037 | 0.956 | 7.8 | 98 | 0.00 |
| 58 | T | Ethyl Benzene | 1.842 | 1.752 | 4.9 | 97 | 0.00 |
| 59 | T | m/p-Xylene | 1.466 | 1.395 | 4.8 | 98 | 0.02 |
| 60 | T | o-Xylene | 1.473 | 1.375 | 6.7 | 98 | 0.00 |
| 61 | T | Styrene | 0.693 | 0.690 | 0.4 | 98 | 0.00 |
| 62 | | Isopropylbenzene | 2.207 | 2.082 | 5.7 | 99 | 0.00 |
| 63 | T | 1,1,2,2-Tetrachloroethane | 0.970 | 0.893 | 7.9 | 99 | 0.00 |
| 64 | | n-propylbenzene | 0.579 | 0.550 | 5.0 | 98 | 0.00 |
| 65 | | tert-Butylbenzene | 2.008 | 1.805 | 10.1 | 97 | 0.00 |
| 66 | T | Benzyl Chloride | 0.153 | 0.150 | 2.0 | 92 | 0.00 |
| 67 | | sec-Butylbenzene | 2.872 | 2.611 | 9.1 | 98 | 0.00 |
| 68 | S | 1-Bromo-4-Fluorobenzene | 0.769 | 0.784 | -2.0 | 96 | 0.00 |
| 69 | | p-Isopropyltoluene | 2.285 | 2.152 | 5.8 | 100 | 0.00 |
| 70 | | n-Butylbenzene | 2.332 | 2.230 | 4.4 | 101 | 0.00 |
| 71 | | 2-Chlorotoluene | 1.701 | 1.599 | 6.0 | 99 | 0.00 |
| 72 | T | 4-Ethyltoluene | 1.799 | 1.719 | 4.4 | 99 | 0.00 |
| 73 | T | 1,3,5-Trimethylbenzene | 1.560 | 1.443 | 7.5 | 98 | 0.00 |
| 74 | T | 1,2,4-Trimethylbenzene | 1.757 | 1.562 | 11.1 | 99 | 0.00 |
| 75 | T | 1,3-Dichlorobenzene | 1.011 | 0.926 | 8.4 | 100 | 0.00 |
| 76 | T | 1,4-Dichlorobenzene | 1.004 | 0.921 | 8.3 | 100 | 0.00 |
| 77 | T | 1,2-Dichlorobenzene | 0.981 | 0.891 | 9.2 | 100 | 0.00 |
| 78 | T | Hexachloro-1,3-Butadiene | 0.764 | 0.652 | 14.7 | 96 | 0.00 |
| 79 | T | Naphthalene | 1.205 | 1.465 | -21.6 | 100 | 0.00 |
| 80 | T | Naphthalene,2-methyl- | 0.330 | 0.566 | -71.5# | 94 | 0.00 |
| 81 | T | 1,2,4-Trichlorobenzene | 0.671 | 0.669 | 0.3 | 97 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

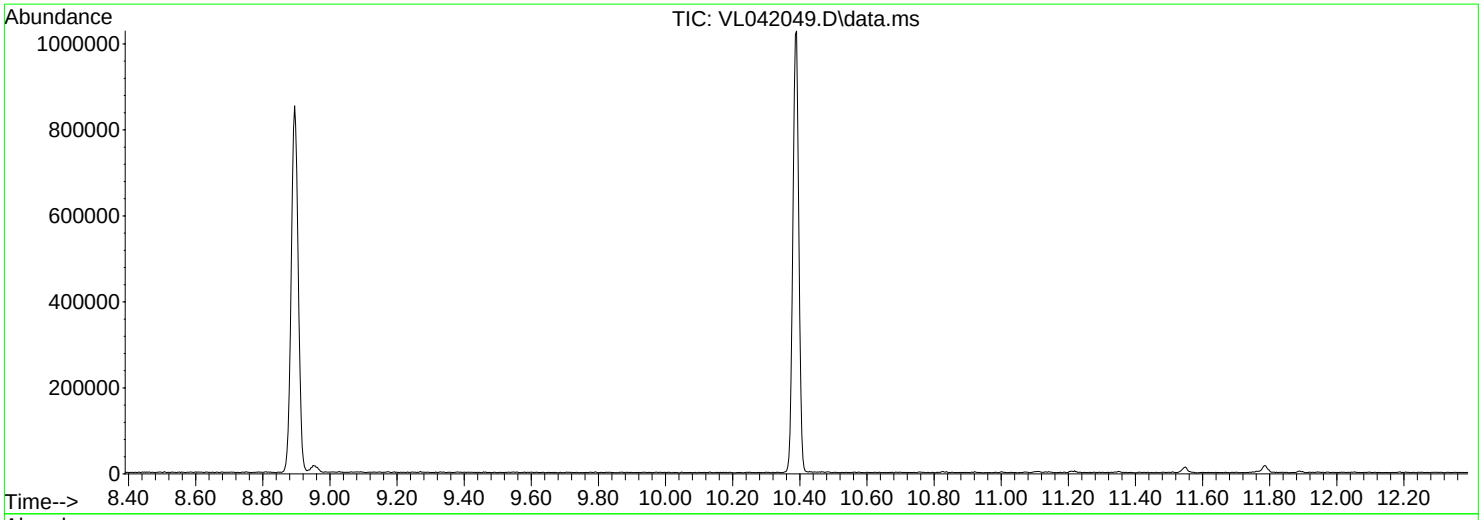
BFB

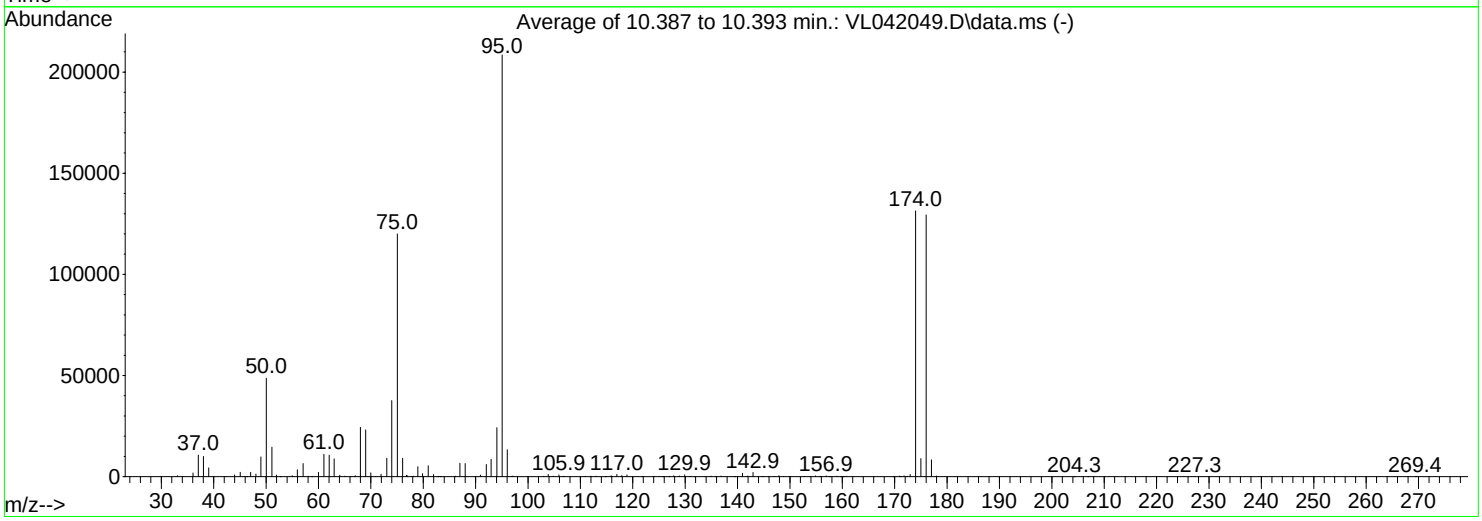
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
Data File : VL042049.D
Acq On : 26 Feb 2025 07:46
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Wed Feb 26 01:08:36 2025




AutoFind: Scans 3182, 3183, 3184; Background Corrected with Scan 3165

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 8 | 40 | 23.3 | 48688 | PASS |
| 75 | 95 | 30 | 66 | 57.6 | 120021 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 208533 | PASS |
| 96 | 95 | 5 | 9 | 6.4 | 13271 | PASS |
| 173 | 174 | 0.00 | 2 | 0.8 | 1077 | PASS |
| 174 | 95 | 50 | 120 | 63.0 | 131429 | PASS |
| 175 | 174 | 4 | 9 | 6.8 | 8951 | PASS |
| 176 | 174 | 93 | 101 | 98.5 | 129411 | PASS |
| 177 | 176 | 5 | 9 | 6.4 | 8302 | PASS |

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
Data File : VL042050.D
Acq On : 26 Feb 2025 08:38
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 27 00:24:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Bromochloromethane | 2.797 | 49 | 157492 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.975 | 114 | 387144 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.898 | 117 | 336136 | 10.000 | ppbv | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.390 | 95 | 264623 | 10.233 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 102.300% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.502 | 85 | 159125 | 9.716 | ppbv | 96 |
| 3) Chlorodifluoromethane | 1.479 | 51 | 217238 | 9.491 | ppbv | 99 |
| 4) Chloromethane | 1.538 | 50 | 54275 | 8.962 | ppbv | 97 |
| 5) Vinyl Chloride | 1.583 | 62 | 53871 | 9.404 | ppbv | 99 |
| 6) Bromomethane | 1.670 | 94 | 25674 | 9.412 | ppbv | 100 |
| 7) Chloroethane | 1.709 | 64 | 22033 | 9.466 | ppbv | 89 |
| 8) Dichlorotetrafluoroethane | 1.557 | 85 | 129383 | 9.610 | ppbv | 99 |
| 9) Propene | 1.486 | 41 | 87439 | 9.377 | ppbv | 97 |
| 10) Heptane | 5.001 | 43 | 268030 | 9.231 | ppbv | 99 |
| 11) Trichlorofluoromethane | 1.884 | 101 | 155832 | 9.496 | ppbv | 98 |
| 12) 1,1,2-Trichlorotrifluo... | 2.146 | 101 | 114341 | 8.735 | ppbv | 99 |
| 13) Ethanol | 1.725 | 45 | 2918 | 4.929 | ppbv | 98 |
| 14) Bromoethene | 1.787 | 108 | 44414 | 9.608 | ppbv | 95 |
| 15) Acetone | 1.842 | 43 | 116372 | 8.367 | ppbv | 98 |
| 16) 1,3-Butadiene | 1.612 | 39 | 59133 | 9.136 | ppbv | 99 |
| 17) tert-Butyl alcohol | 2.046 | 59 | 153167 | 8.802 | ppbv | 96 |
| 18) 1,1-Dichloroethene | 2.039 | 96 | 51101 | 8.640 | ppbv | 93 |
| 19) Isopropyl Alcohol | 1.890 | 45 | 69014 | 8.638 | ppbv | 98 |
| 20) Methylene Chloride | 2.068 | 84 | 42907 | 8.156 | ppbv | 98 |
| 21) Allyl Chloride | 2.101 | 41 | 86423 | 8.600 | ppbv | 99 |
| 22) trans-1,2-Dichloroethene | 2.347 | 96 | 61551 | 8.927 | ppbv | 98 |
| 23) Vinyl Acetate | 2.470 | 43 | 84867 | 8.678 | ppbv | 98 |
| 24) 1,1-Dichloroethane | 2.418 | 63 | 118286 | 9.220 | ppbv | 99 |
| 25) Ethyl Acetate | 2.848 | 43 | 521677 | 9.371 | ppbv | 99 |
| 26) Hexane | 2.835 | 57 | 207168 | 9.205 | ppbv | 98 |
| 27) Carbon Disulfide | 2.156 | 76 | 138544 | 9.081 | ppbv | 95 |
| 28) Methyl tert-Butyl Ether | 2.447 | 73 | 88652 | 7.912 | ppbv | 97 |
| 29) Chloroform | 2.858 | 83 | 273992 | 9.045 | ppbv | 98 |
| 30) Cyclohexane | 3.871 | 84 | 167364 | 9.162 | ppbv | 94 |
| 31) cis-1,2-Dichloroethene | 2.732 | 61 | 197466 | 9.268 | ppbv | 97 |
| 32) 1,1,1-Trichloroethane | 3.379 | 97 | 275336 | 9.370 | ppbv | 97 |
| 34) 2-Butanone | 2.567 | 43 | 298594 | 9.900 | ppbv | 97 |
| 35) Carbon Tetrachloride | 3.777 | 117 | 272097 | 10.192 | ppbv | 97 |
| 36) Benzene | 3.670 | 78 | 394494 | 9.734 | ppbv | 97 |
| 37) 1,2-Dichloroethane | 3.230 | 62 | 224585 | 9.995 | ppbv | 99 |
| 38) Trichloroethene | 4.567 | 130 | 149021 | 9.005 | ppbv | 97 |
| 39) 1,2-Dichloropropane | 4.331 | 63 | 151626 | 9.857 | ppbv | 95 |
| 40) 1,4-Dioxane | 4.606 | 88 | 68639 | 9.775 | ppbv # | 98 |
| 41) Tetrahydrofuran | 3.065 | 42 | 178871 | 10.037 | ppbv | 97 |
| 42) Bromodichloromethane | 4.509 | 83 | 306517 | 10.124 | ppbv | 98 |
| 43) Methyl Methacrylate | 4.900 | 69 | 156460 | 9.885 | ppbv | 96 |
| 44) 2,2,4-Trimethylpentane | 4.658 | 57 | 703370 | 9.834 | ppbv | 99 |
| 45) t-1,3-Dichloropropene | 6.438 | 75 | 155197 | 9.870 | ppbv | 96 |

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
Data File : VL042050.D
Acq On : 26 Feb 2025 08:38
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 27 00:24:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.622 | 75 | 205249 | 10.087 | ppbv | | 99 |
| 47) 1,1,2-Trichloroethane | 6.603 | 97 | 148058 | 9.481 | ppbv | | 96 |
| 48) Dibromochloromethane | 7.409 | 129 | 240304 | 9.825 | ppbv | | 100 |
| 49) Bromoform | 9.496 | 173 | 205649 | 9.682 | ppbv | | 98 |
| 50) 4-Methyl-2-Pentanone | 5.778 | 43 | 423271 | 10.851 | ppbv | | 97 |
| 51) 2-Hexanone | 7.454 | 43 | 345562 | 12.872 | ppbv | # | 100 |
| 52) Tetrachloroethene | 8.237 | 164 | 131164 | 9.454 | ppbv | | 97 |
| 53) Toluene | 6.952 | 91 | 439634 | 9.706 | ppbv | | 98 |
| 54) 1,2-Dibromoethane | 7.671 | 107 | 200726 | 9.507 | ppbv | | 97 |
| 56) 1,1,1,2-Tetrachloroethane | 8.940 | 131 | 178871 | 9.415 | ppbv | | 100 |
| 57) Chlorobenzene | 8.937 | 112 | 326805 | 9.377 | ppbv | | 99 |
| 58) Ethyl Benzene | 9.367 | 91 | 598242 | 9.664 | ppbv | | 99 |
| 59) m/p-Xylene | 9.564 | 91 | 957021m | 19.427 | ppbv | | |
| 60) o-Xylene | 9.979 | 91 | 475848 | 9.608 | ppbv | | 100 |
| 61) Styrene | 9.885 | 104 | 231133 | 9.927 | ppbv | | 99 |
| 62) Isopropylbenzene | 10.552 | 105 | 718826 | 9.692 | ppbv | | 100 |
| 63) 1,1,2,2-Tetrachloroethane | 9.975 | 83 | 312195 | 9.572 | ppbv | | 98 |
| 64) n-propylbenzene | 11.001 | 120 | 185068 | 9.513 | ppbv | | 95 |
| 65) tert-Butylbenzene | 11.542 | 119 | 618290 | 9.160 | ppbv | | 98 |
| 66) Benzyl Chloride | 11.629 | 91 | 49850 | 9.678 | ppbv | | 98 |
| 67) sec-Butylbenzene | 11.778 | 105 | 890927 | 9.229 | ppbv | | 100 |
| 69) p-Isopropyltoluene | 11.937 | 119 | 724678 | 9.435 | ppbv | | 100 |
| 70) n-Butylbenzene | 12.293 | 91 | 756366 | 9.648 | ppbv | | 99 |
| 71) 2-Chlorotoluene | 10.914 | 91 | 545538 | 9.541 | ppbv | | 99 |
| 72) 4-Ethyltoluene | 11.137 | 105 | 574661 | 9.504 | ppbv | | 99 |
| 73) 1,3,5-Trimethylbenzene | 11.215 | 105 | 484912 | 9.245 | ppbv | | 98 |
| 74) 1,2,4-Trimethylbenzene | 11.548 | 105 | 527932 | 8.938 | ppbv | | 96 |
| 75) 1,3-Dichlorobenzene | 11.620 | 146 | 309408 | 9.102 | ppbv | | 99 |
| 76) 1,4-Dichlorobenzene | 11.684 | 146 | 309423 | 9.168 | ppbv | | 99 |
| 77) 1,2-Dichlorobenzene | 11.960 | 146 | 302720 | 9.177 | ppbv | | 99 |
| 78) Hexachloro-1,3-Butadiene | 13.892 | 225 | 229379 | 8.937 | ppbv | | 100 |
| 79) Naphthalene | 13.523 | 128 | 493813 | 12.193 | ppbv | | 99 |
| 80) Naphthalene,2-methyl- | 14.468 | 142 | 190978 | 17.232 | ppbv | | 99 |
| 81) 1,2,4-Trichlorobenzene | 13.452 | 180 | 226561 | 10.038 | ppbv | | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

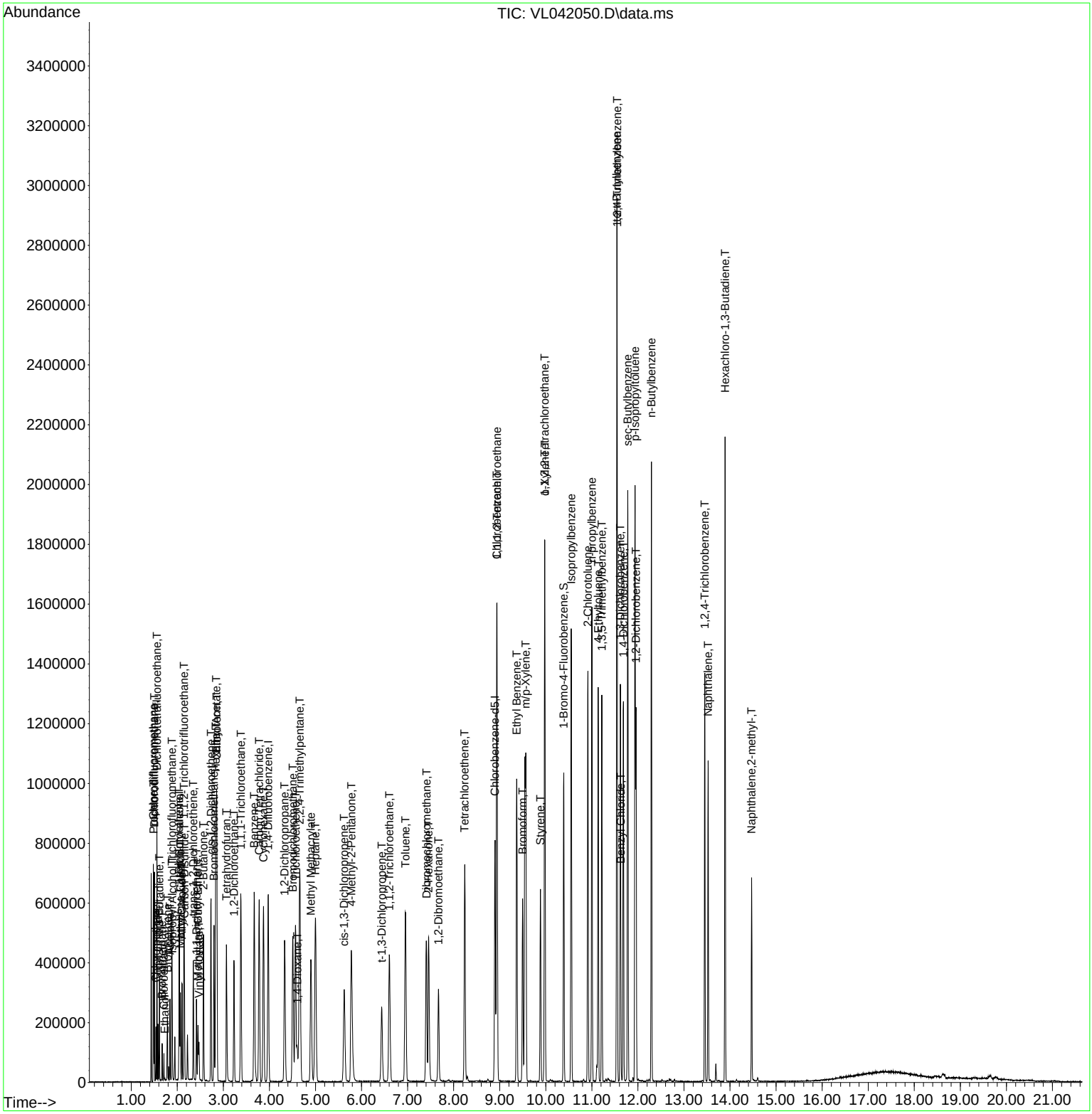
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
Data File : VL042050.D
Acq On : 26 Feb 2025 08:38
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 27 00:24:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
Data File : VL042050.D
Acq On : 26 Feb 2025 08:38
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**LabSampleId :**
VSTDCCC010

Quant Time: Feb 27 00:24:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Bromochloromethane | 1.000 | 1.000 | 0.0 | 98 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 1.040 | 1.010 | 2.9 | 105 | 0.00 |
| 3 | | Chlorodifluoromethane | 1.453 | 1.379 | 5.1 | 103 | 0.00 |
| 4 | | Chloromethane | 0.385 | 0.345 | 10.4 | 98 | 0.00 |
| 5 | T | Vinyl Chloride | 0.364 | 0.342 | 6.0 | 99 | 0.00 |
| 6 | T | Bromomethane | 0.173 | 0.163 | 5.8 | 99 | 0.00 |
| 7 | | Chloroethane | 0.148 | 0.140 | 5.4 | 101 | 0.00 |
| 8 | T | Dichlorotetrafluoroethane | 0.855 | 0.822 | 3.9 | 103 | 0.00 |
| 9 | T | Propene | 0.592 | 0.555 | 6.2 | 104 | 0.00 |
| 10 | T | Heptane | 1.844 | 1.702 | 7.7 | 100 | 0.00 |
| 11 | T | Trichlorofluoromethane | 1.042 | 0.989 | 5.1 | 102 | 0.00 |
| 12 | T | 1,1,2-Trichlorotrifluoroeth | 0.831 | 0.726 | 12.6 | 102 | 0.00 |
| 13 | | Ethanol | 0.038 | 0.019# | 50.0# | 92 | 0.00 |
| 14 | T | Bromoethene | 0.293 | 0.282 | 3.8 | 105 | 0.00 |
| 15 | T | Acetone | 0.883 | 0.739 | 16.3 | 101 | 0.00 |
| 16 | T | 1,3-Butadiene | 0.411 | 0.375 | 8.8 | 102 | 0.00 |
| 17 | | tert-Butyl alcohol | 1.105 | 0.973 | 11.9 | 100 | 0.00 |
| 18 | T | 1,1-Dichloroethene | 0.376 | 0.324 | 13.8 | 99 | 0.00 |
| 19 | T | Isopropyl Alcohol | 0.507 | 0.438 | 13.6 | 102 | 0.00 |
| 20 | T | Methylene Chloride | 0.334 | 0.272 | 18.6 | 102 | 0.00 |
| 21 | T | Allyl Chloride | 0.638 | 0.549 | 13.9 | 100 | 0.00 |
| 22 | T | trans-1,2-Dichloroethene | 0.438 | 0.391 | 10.7 | 107 | 0.00 |
| 23 | T | Vinyl Acetate | 0.621 | 0.539 | 13.2 | 101 | 0.00 |
| 24 | T | 1,1-Dichloroethane | 0.815 | 0.751 | 7.9 | 110 | 0.00 |
| 25 | T | Ethyl Acetate | 3.535 | 3.312 | 6.3 | 102 | 0.00 |
| 26 | T | Hexane | 1.429 | 1.315 | 8.0 | 100 | 0.00 |
| 27 | T | Carbon Disulfide | 0.969 | 0.880 | 9.2 | 100 | 0.00 |
| 28 | T | Methyl tert-Butyl Ether | 0.711 | 0.563 | 20.8 | 105 | 0.00 |
| 29 | T | Chloroform | 1.923 | 1.740 | 9.5 | 99 | 0.00 |
| 30 | T | Cyclohexane | 1.160 | 1.063 | 8.4 | 97 | 0.00 |
| 31 | T | cis-1,2-Dichloroethene | 1.353 | 1.254 | 7.3 | 99 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 1.866 | 1.748 | 6.3 | 96 | 0.00 |
| 33 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 92 | 0.00 |
| 34 | T | 2-Butanone | 0.779 | 0.771 | 1.0 | 102 | 0.00 |
| 35 | T | Carbon Tetrachloride | 0.690 | 0.703 | -1.9 | 98 | 0.00 |
| 36 | T | Benzene | 1.047 | 1.019 | 2.7 | 96 | 0.00 |
| 37 | T | 1,2-Dichloroethane | 0.580 | 0.580 | 0.0 | 102 | 0.00 |
| 38 | T | Trichloroethene | 0.427 | 0.385 | 9.8 | 93 | 0.00 |
| 39 | T | 1,2-Dichloropropane | 0.397 | 0.392 | 1.3 | 100 | 0.00 |
| 40 | T | 1,4-Dioxane | 0.181 | 0.177 | 2.2 | 99 | 0.00 |
| 41 | T | Tetrahydrofuran | 0.460 | 0.462 | -0.4 | 101 | 0.00 |
| 42 | T | Bromodichloromethane | 0.782 | 0.792 | -1.3 | 98 | 0.00 |
| 43 | | Methyl Methacrylate | 0.409 | 0.404 | 1.2 | 95 | 0.00 |
| 44 | T | 2,2,4-Trimethylpentane | 1.848 | 1.817 | 1.7 | 100 | 0.00 |
| 45 | T | t-1,3-Dichloropropene | 0.406 | 0.401 | 1.2 | 93 | 0.00 |
| 46 | T | cis-1,3-Dichloropropene | 0.526 | 0.530 | -0.8 | 94 | 0.00 |
| 47 | T | 1,1,2-Trichloroethane | 0.403 | 0.382 | 5.2 | 97 | 0.00 |
| 48 | T | Dibromochloromethane | 0.632 | 0.621 | 1.7 | 96 | 0.00 |

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
Data File : VL042050.D
Acq On : 26 Feb 2025 08:38
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**LabSampleId :**
VSTDCCC010

Quant Time: Feb 27 00:24:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | Bromoform | 0.549 | 0.531 | 3.3 | 93 | 0.00 |
| 50 | T | 4-Methyl-2-Pentanone | 1.008 | 1.093 | -8.4 | 99 | 0.00 |
| 51 | T | 2-Hexanone | 0.693 | 0.893 | -28.9 | 98 | 0.00 |
| 52 | T | Tetrachloroethene | 0.358 | 0.339 | 5.3 | 95 | 0.00 |
| 53 | T | Toluene | 1.170 | 1.136 | 2.9 | 96 | 0.00 |
| 54 | T | 1,2-Dibromoethane | 0.545 | 0.518 | 5.0 | 95 | 0.00 |
| 55 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 90 | 0.00 |
| 56 | | 1,1,1,2-Tetrachloroethane | 0.565 | 0.532 | 5.8 | 95 | 0.00 |
| 57 | T | Chlorobenzene | 1.037 | 0.972 | 6.3 | 96 | 0.00 |
| 58 | T | Ethyl Benzene | 1.842 | 1.780 | 3.4 | 94 | 0.00 |
| 59 | T | m/p-Xylene | 1.466 | 1.424 | 2.9 | 96 | 0.01 |
| 60 | T | o-Xylene | 1.473 | 1.416 | 3.9 | 97 | 0.00 |
| 61 | T | Styrene | 0.693 | 0.688 | 0.7 | 94 | 0.00 |
| 62 | | Isopropylbenzene | 2.207 | 2.138 | 3.1 | 98 | 0.00 |
| 63 | T | 1,1,2,2-Tetrachloroethane | 0.970 | 0.929 | 4.2 | 98 | 0.00 |
| 64 | | n-propylbenzene | 0.579 | 0.551 | 4.8 | 94 | 0.00 |
| 65 | | tert-Butylbenzene | 2.008 | 1.839 | 8.4 | 95 | 0.00 |
| 66 | T | Benzyl Chloride | 0.153 | 0.148 | 3.3 | 87 | 0.00 |
| 67 | | sec-Butylbenzene | 2.872 | 2.650 | 7.7 | 96 | 0.00 |
| 68 | S | 1-Bromo-4-Fluorobenzene | 0.769 | 0.787 | -2.3 | 93 | 0.00 |
| 69 | | p-Isopropyltoluene | 2.285 | 2.156 | 5.6 | 96 | 0.00 |
| 70 | | n-Butylbenzene | 2.332 | 2.250 | 3.5 | 98 | 0.00 |
| 71 | | 2-Chlorotoluene | 1.701 | 1.623 | 4.6 | 96 | 0.00 |
| 72 | T | 4-Ethyltoluene | 1.799 | 1.710 | 4.9 | 95 | 0.00 |
| 73 | T | 1,3,5-Trimethylbenzene | 1.560 | 1.443 | 7.5 | 94 | 0.00 |
| 74 | T | 1,2,4-Trimethylbenzene | 1.757 | 1.571 | 10.6 | 96 | 0.00 |
| 75 | T | 1,3-Dichlorobenzene | 1.011 | 0.920 | 9.0 | 95 | 0.00 |
| 76 | T | 1,4-Dichlorobenzene | 1.004 | 0.921 | 8.3 | 96 | 0.00 |
| 77 | T | 1,2-Dichlorobenzene | 0.981 | 0.901 | 8.2 | 97 | 0.00 |
| 78 | T | Hexachloro-1,3-Butadiene | 0.764 | 0.682 | 10.7 | 96 | 0.00 |
| 79 | T | Naphthalene | 1.205 | 1.469 | -21.9 | 96 | 0.00 |
| 80 | T | Naphthalene,2-methyl- | 0.330 | 0.568 | -72.1# | 91 | 0.00 |
| 81 | T | 1,2,4-Trichlorobenzene | 0.671 | 0.674 | -0.4 | 94 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
Data File : VL042051.D
Acq On : 26 Feb 2025 09:20
Operator : SY/MD
Sample : VL0226ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0226ABL01

Quant Time: Feb 27 00:25:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

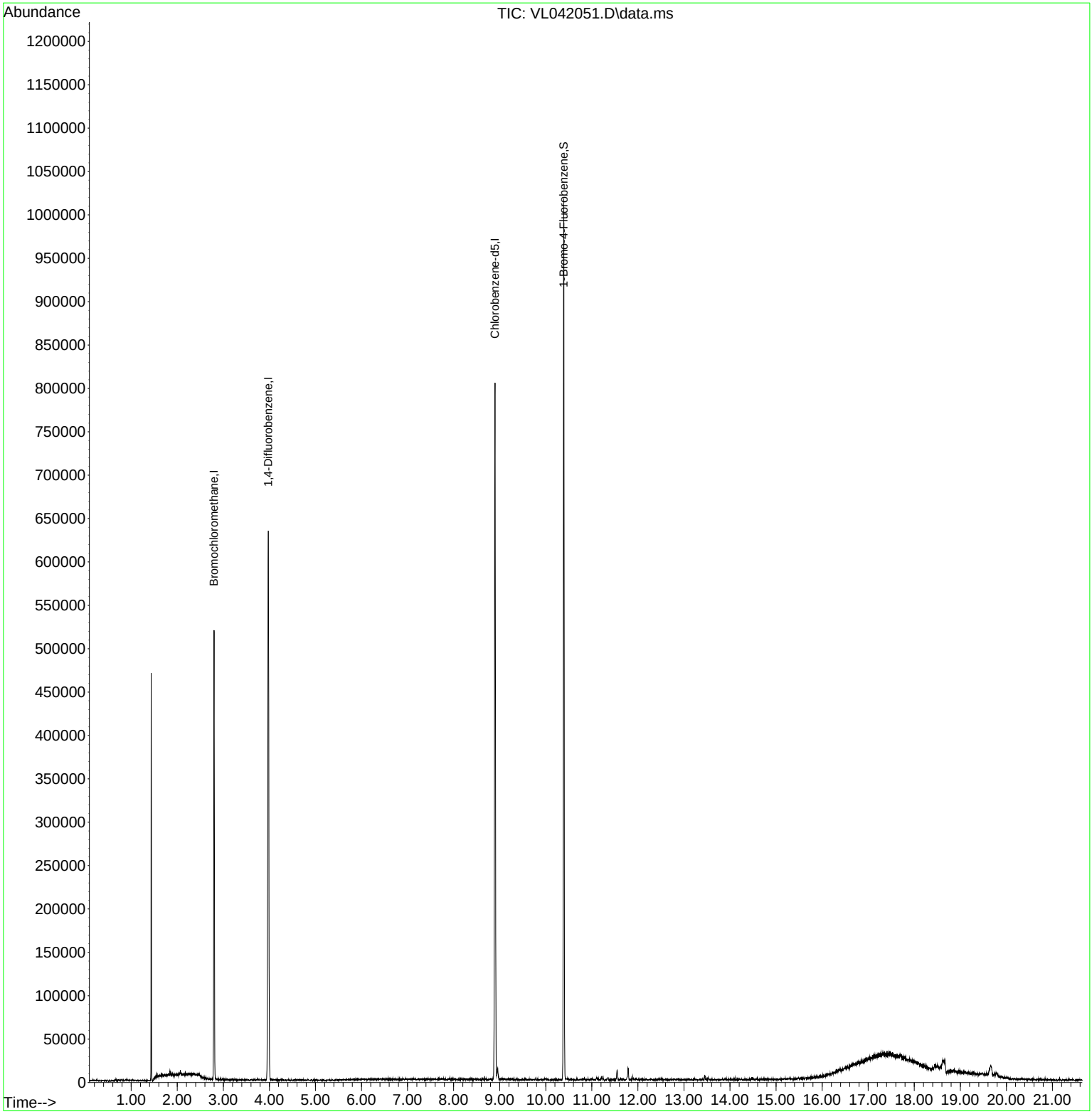
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.797 | 49 | 157395 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.975 | 114 | 386755 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.898 | 117 | 331916 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.390 | 95 | 257988 | 10.103 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 101.000% | | | |
| Target Compounds | | | | | | Qvalue |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
Data File : VL042051.D
Acq On : 26 Feb 2025 09:20
Operator : SY/MD
Sample : VL0226ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0226ABL01

Quant Time: Feb 27 00:25:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
Data File : VL042052.D
Acq On : 26 Feb 2025 10:04
Operator : SY/MD
Sample : QC021725 CAN 10271
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
QC021725 CAN 10271

Quant Time: Feb 27 00:25:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

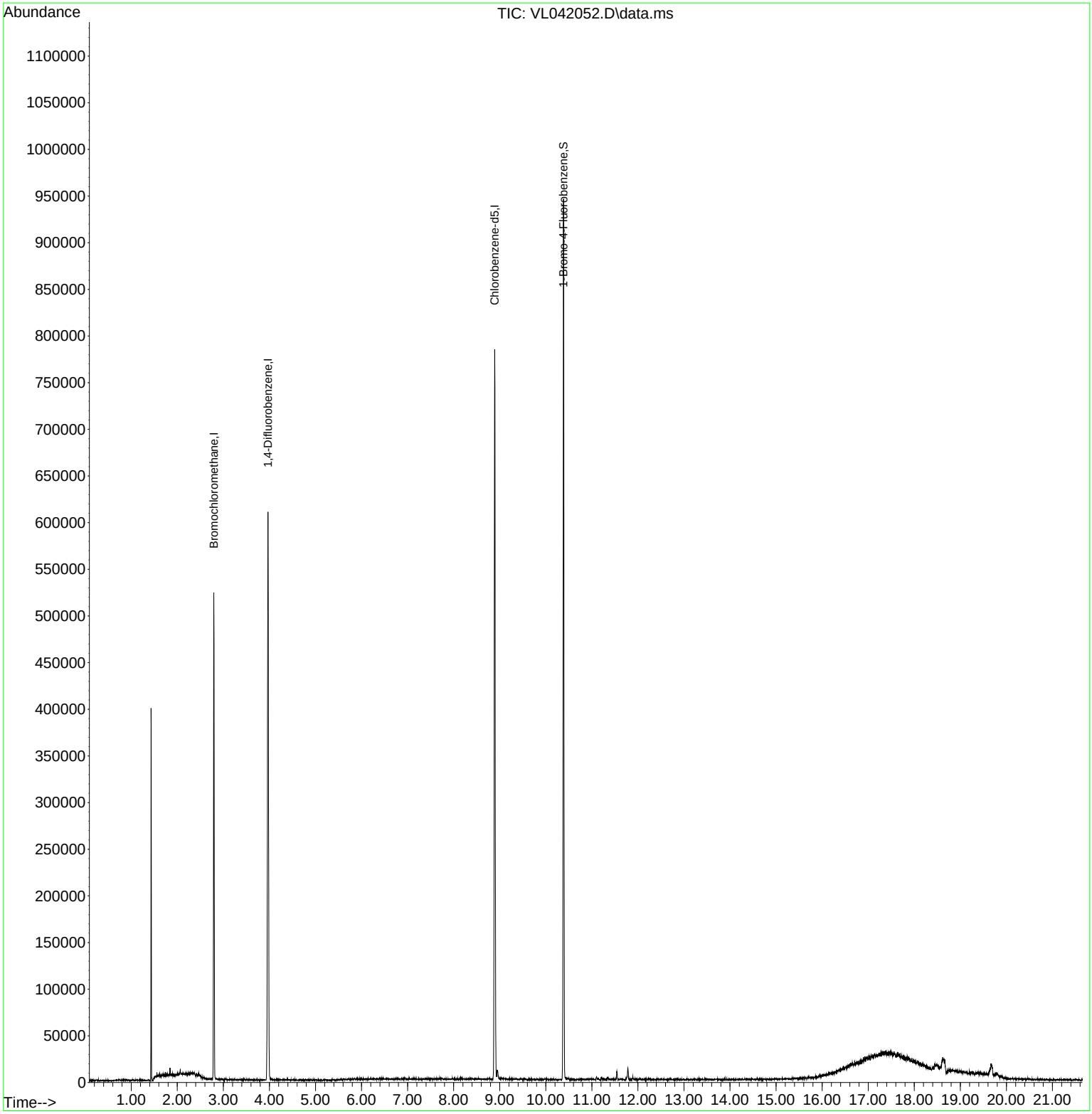
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.794 | 49 | 152414 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.969 | 114 | 364923 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.891 | 117 | 316584 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.384 | 95 | 246219 | 10.109 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 101.100% | | | |
| Target Compounds | | | | | | Qvalue |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
Data File : VL042052.D
Acq On : 26 Feb 2025 10:04
Operator : SY/MD
Sample : QC021725 CAN 10271
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
QC021725 CAN 10271

Quant Time: Feb 27 00:25:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
Data File : VL042054.D
Acq On : 26 Feb 2025 11:07
Operator : SY/MD
Sample : VL0226ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 27 00:26:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0226ABS01

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.797 | 49 | 153181 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.972 | 114 | 369057 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.895 | 117 | 318885 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.387 | 95 | 257152 | 10.482 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 104.800% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.502 | 85 | 154942 | 9.727 | ppbv | 100 |
| 3) Chlorodifluoromethane | 1.480 | 51 | 208345 | 9.358 | ppbv | 100 |
| 4) Chloromethane | 1.538 | 50 | 53585 | 9.097 | ppbv | 99 |
| 5) Vinyl Chloride | 1.583 | 62 | 54944 | 9.861 | ppbv | 96 |
| 6) Bromomethane | 1.674 | 94 | 25364 | 9.560 | ppbv | 96 |
| 7) Chloroethane | 1.709 | 64 | 21007 | 9.279 | ppbv | 88 |
| 8) Dichlorotetrafluoroethane | 1.557 | 85 | 125091 | 9.553 | ppbv | 98 |
| 9) Propene | 1.486 | 41 | 83500 | 9.206 | ppbv | 99 |
| 10) Heptane | 5.001 | 43 | 256046 | 9.067 | ppbv | 99 |
| 11) Trichlorofluoromethane | 1.884 | 101 | 154527 | 9.682 | ppbv | 97 |
| 12) 1,1,2-Trichlorotrifluo... | 2.146 | 101 | 124837 | 9.805 | ppbv | 96 |
| 13) Ethanol | 1.726 | 45 | 3000 | 5.211 | ppbv | 92 |
| 14) Bromoethene | 1.787 | 108 | 43051 | 9.576 | ppbv | 99 |
| 15) Acetone | 1.842 | 43 | 116404 | 8.605 | ppbv | 100 |
| 16) 1,3-Butadiene | 1.612 | 39 | 57319 | 9.105 | ppbv | 99 |
| 17) tert-Butyl alcohol | 2.049 | 59 | 156939 | 9.273 | ppbv | 99 |
| 18) 1,1-Dichloroethene | 2.039 | 96 | 53389 | 9.281 | ppbv | 86 |
| 19) Isopropyl Alcohol | 1.891 | 45 | 68899 | 8.867 | ppbv | 100 |
| 20) Methylene Chloride | 2.069 | 84 | 46174 | 9.024 | ppbv | 93 |
| 21) Allyl Chloride | 2.101 | 41 | 92702 | 9.484 | ppbv | 99 |
| 22) trans-1,2-Dichloroethene | 2.347 | 96 | 61477 | 9.167 | ppbv | 99 |
| 23) Vinyl Acetate | 2.470 | 43 | 80476 | 8.461 | ppbv | 98 |
| 24) 1,1-Dichloroethane | 2.415 | 63 | 119185 | 9.551 | ppbv | 99 |
| 25) Ethyl Acetate | 2.845 | 43 | 509260 | 9.405 | ppbv | 100 |
| 26) Hexane | 2.836 | 57 | 194754 | 8.897 | ppbv | 94 |
| 27) Carbon Disulfide | 2.156 | 76 | 144095 | 9.711 | ppbv # | 91 |
| 28) Methyl tert-Butyl Ether | 2.451 | 73 | 106845 | 9.804 | ppbv | 99 |
| 29) Chloroform | 2.858 | 83 | 266332 | 9.040 | ppbv | 98 |
| 30) Cyclohexane | 3.871 | 84 | 158311 | 8.910 | ppbv | 94 |
| 31) cis-1,2-Dichloroethene | 2.729 | 61 | 193240 | 9.325 | ppbv | 94 |
| 32) 1,1,1-Trichloroethane | 3.379 | 97 | 262261 | 9.177 | ppbv | 96 |
| 34) 2-Butanone | 2.567 | 43 | 292802 | 10.184 | ppbv | 97 |
| 35) Carbon Tetrachloride | 3.778 | 117 | 262129 | 10.300 | ppbv | 95 |
| 36) Benzene | 3.671 | 78 | 375533 | 9.720 | ppbv | 95 |
| 37) 1,2-Dichloroethane | 3.231 | 62 | 218716 | 10.211 | ppbv | 98 |
| 38) Trichloroethene | 4.567 | 130 | 143714 | 9.110 | ppbv | 95 |
| 39) 1,2-Dichloropropane | 4.331 | 63 | 146117 | 9.964 | ppbv | 99 |
| 40) 1,4-Dioxane | 4.603 | 88 | 65661 | 9.809 | ppbv # | 96 |
| 41) Tetrahydrofuran | 3.066 | 42 | 172429 | 10.150 | ppbv | 98 |
| 42) Bromodichloromethane | 4.506 | 83 | 289453 | 10.029 | ppbv | 100 |
| 43) Methyl Methacrylate | 4.904 | 69 | 151059 | 10.012 | ppbv | 95 |
| 44) 2,2,4-Trimethylpentane | 4.658 | 57 | 684336 | 10.036 | ppbv | 99 |
| 45) t-1,3-Dichloropropene | 6.441 | 75 | 147062 | 9.811 | ppbv | 94 |

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
Data File : VL042054.D
Acq On : 26 Feb 2025 11:07
Operator : SY/MD
Sample : VL0226ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 27 00:26:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0226ABS01

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.626 | 75 | 191420 | 9.868 | ppbv | | 98 |
| 47) 1,1,2-Trichloroethane | 6.603 | 97 | 139001 | 9.337 | ppbv | | 97 |
| 48) Dibromochloromethane | 7.406 | 129 | 228694 | 9.808 | ppbv | | 100 |
| 49) Bromoform | 9.497 | 173 | 194002 | 9.581 | ppbv | | 99 |
| 50) 4-Methyl-2-Pentanone | 5.775 | 43 | 407870 | 10.969 | ppbv | | 98 |
| 51) 2-Hexanone | 7.454 | 43 | 327784 | 12.808 | ppbv | # | 99 |
| 52) Tetrachloroethene | 8.241 | 164 | 123860 | 9.365 | ppbv | | 95 |
| 53) Toluene | 6.953 | 91 | 418086 | 9.683 | ppbv | | 98 |
| 54) 1,2-Dibromoethane | 7.671 | 107 | 190454 | 9.462 | ppbv | | 98 |
| 56) 1,1,1,2-Tetrachloroethane | 8.940 | 131 | 171980 | 9.542 | ppbv | | 100 |
| 57) Chlorobenzene | 8.937 | 112 | 313487 | 9.482 | ppbv | | 98 |
| 58) Ethyl Benzene | 9.370 | 91 | 575798 | 9.805 | ppbv | | 99 |
| 59) m/p-Xylene | 9.565 | 91 | 909392m | 19.459 | ppbv | | |
| 60) o-Xylene | 9.976 | 91 | 450481 | 9.588 | ppbv | | 100 |
| 61) Styrene | 9.882 | 104 | 218205 | 9.879 | ppbv | | 100 |
| 62) Isopropylbenzene | 10.552 | 105 | 678100 | 9.637 | ppbv | | 99 |
| 63) 1,1,2,2-Tetrachloroethane | 9.976 | 83 | 295251 | 9.543 | ppbv | | 99 |
| 64) n-propylbenzene | 10.999 | 120 | 178544 | 9.674 | ppbv | | 95 |
| 65) tert-Butylbenzene | 11.542 | 119 | 599970 | 9.369 | ppbv | | 98 |
| 66) Benzyl Chloride | 11.630 | 91 | 44022 | 9.009 | ppbv | | 97 |
| 67) sec-Butylbenzene | 11.779 | 105 | 863022 | 9.423 | ppbv | | 99 |
| 69) p-Isopropyltoluene | 11.937 | 119 | 715231 | 9.816 | ppbv | | 99 |
| 70) n-Butylbenzene | 12.293 | 91 | 744799 | 10.014 | ppbv | | 99 |
| 71) 2-Chlorotoluene | 10.914 | 91 | 520897 | 9.603 | ppbv | | 99 |
| 72) 4-Ethyltoluene | 11.138 | 105 | 558376 | 9.734 | ppbv | | 99 |
| 73) 1,3,5-Trimethylbenzene | 11.215 | 105 | 475566 | 9.557 | ppbv | | 98 |
| 74) 1,2,4-Trimethylbenzene | 11.549 | 105 | 520419 | 9.288 | ppbv | | 99 |
| 75) 1,3-Dichlorobenzene | 11.620 | 146 | 302808 | 9.390 | ppbv | | 98 |
| 76) 1,4-Dichlorobenzene | 11.685 | 146 | 298128 | 9.311 | ppbv | | 99 |
| 77) 1,2-Dichlorobenzene | 11.960 | 146 | 293043 | 9.364 | ppbv | | 99 |
| 78) Hexachloro-1,3-Butadiene | 13.892 | 225 | 216968 | 8.911 | ppbv | | 99 |
| 79) Naphthalene | 13.523 | 128 | 476359 | 12.399 | ppbv | | 99 |
| 80) Naphthalene,2-methyl- | 14.468 | 142 | 187061 | 17.792 | ppbv | | 98 |
| 81) 1,2,4-Trichlorobenzene | 13.452 | 180 | 218258 | 10.194 | ppbv | | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

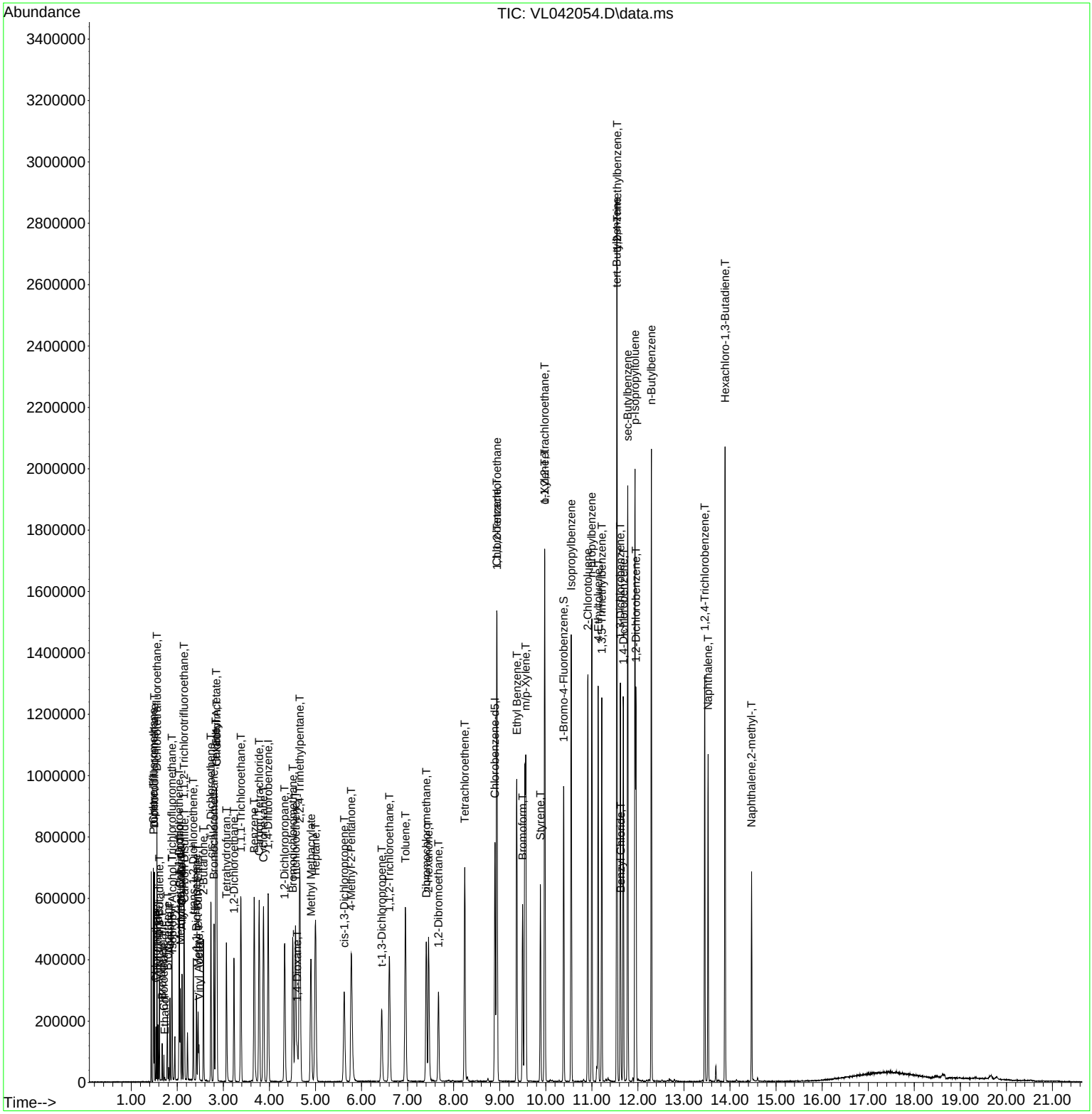
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
Data File : VL042054.D
Acq On : 26 Feb 2025 11:07
Operator : SY/MD
Sample : VL0226ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 27 00:26:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0226ABS01

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



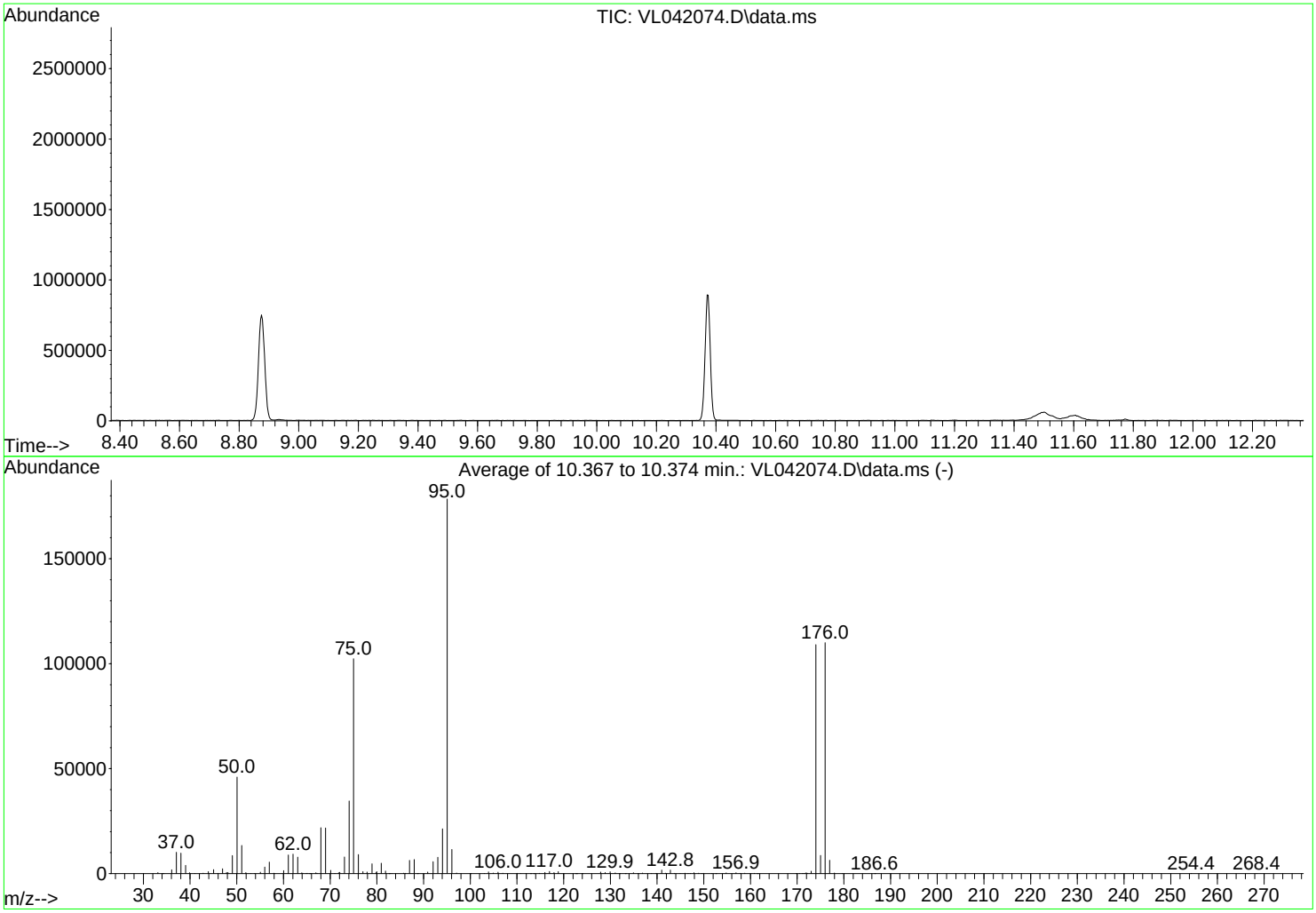
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
Data File : VL042074.D
Acq On : 03 Mar 2025 11:45
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Wed Feb 26 01:08:36 2025




AutoFind: Scans 3176, 3177, 3178; Background Corrected with Scan 3162

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 8 | 40 | 25.8 | 45971 | PASS |
| 75 | 95 | 30 | 66 | 57.4 | 102347 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 178453 | PASS |
| 96 | 95 | 5 | 9 | 6.5 | 11542 | PASS |
| 173 | 174 | 0.00 | 2 | 1.0 | 1135 | PASS |
| 174 | 95 | 50 | 120 | 61.1 | 109091 | PASS |
| 175 | 174 | 4 | 9 | 7.9 | 8641 | PASS |
| 176 | 174 | 93 | 101 | 100.9 | 110029 | PASS |
| 177 | 176 | 5 | 9 | 5.8 | 6386 | PASS |

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
Data File : VL042075.D
Acq On : 03 Mar 2025 12:15
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 04 00:16:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 03/04/2025
Supervised By :Mahesh Dadoda 03/05/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.784 | 49 | 173325 | 10.000 | ppbv | -0.02 |
| 33) 1,4-Difluorobenzene | 3.952 | 114 | 409365 | 10.000 | ppbv | -0.03 |
| 55) Chlorobenzene-d5 | 8.875 | 117 | 350236 | 10.000 | ppbv | -0.03 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.370 | 95 | 273654 | 10.156 | ppbv | -0.02 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 101.600% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.495 | 85 | 176895 | 9.815 | ppbv | 98 |
| 3) Chlorodifluoromethane | 1.473 | 51 | 229308 | 9.103 | ppbv | 100 |
| 4) Chloromethane | 1.531 | 50 | 61184 | 9.180 | ppbv | 99 |
| 5) Vinyl Chloride | 1.576 | 62 | 60317 | 9.567 | ppbv | 100 |
| 6) Bromomethane | 1.664 | 94 | 30156 | 10.045 | ppbv | 92 |
| 7) Chloroethane | 1.703 | 64 | 24074 | 9.398 | ppbv | 98 |
| 8) Dichlorotetrafluoroethane | 1.550 | 85 | 144041 | 9.722 | ppbv | 99 |
| 9) Propene | 1.482 | 41 | 95116 | 9.268 | ppbv | 99 |
| 10) Heptane | 4.972 | 43 | 285343 | 8.930 | ppbv | 96 |
| 11) Trichlorofluoromethane | 1.874 | 101 | 187492 | 10.382 | ppbv | 95 |
| 12) 1,1,2-Trichlorotrifluo... | 2.136 | 101 | 142259 | 9.875 | ppbv | 98 |
| 13) Ethanol | 1.719 | 45 | 3376 | 5.182 | ppbv | 95 |
| 14) Bromoethene | 1.780 | 108 | 48570 | 9.548 | ppbv | 100 |
| 15) Acetone | 1.832 | 43 | 133956 | 8.752 | ppbv | 99 |
| 16) 1,3-Butadiene | 1.605 | 39 | 64990 | 9.124 | ppbv | 99 |
| 17) tert-Butyl alcohol | 2.036 | 59 | 174843 | 9.130 | ppbv | 97 |
| 18) 1,1-Dichloroethene | 2.029 | 96 | 62817 | 9.651 | ppbv | 98 |
| 19) Isopropyl Alcohol | 1.884 | 45 | 79667 | 9.061 | ppbv | 100 |
| 20) Methylene Chloride | 2.059 | 84 | 53086 | 9.169 | ppbv | 97 |
| 21) Allyl Chloride | 2.091 | 41 | 107750 | 9.743 | ppbv | 99 |
| 22) trans-1,2-Dichloroethene | 2.337 | 96 | 72547 | 9.561 | ppbv | 93 |
| 23) Vinyl Acetate | 2.460 | 43 | 89888 | 8.352 | ppbv | 99 |
| 24) 1,1-Dichloroethane | 2.405 | 63 | 136644 | 9.678 | ppbv | 99 |
| 25) Ethyl Acetate | 2.832 | 43 | 563012 | 9.189 | ppbv | 99 |
| 26) Hexane | 2.822 | 57 | 216702 | 8.749 | ppbv | 94 |
| 27) Carbon Disulfide | 2.146 | 76 | 166324 | 9.906 | ppbv | 97 |
| 28) Methyl tert-Butyl Ether | 2.437 | 73 | 102443 | 8.307 | ppbv | 99 |
| 29) Chloroform | 2.845 | 83 | 294142 | 8.824 | ppbv | 100 |
| 30) Cyclohexane | 3.852 | 84 | 170364 | 8.474 | ppbv | 91 |
| 31) cis-1,2-Dichloroethene | 2.716 | 61 | 209328 | 8.928 | ppbv | 95 |
| 32) 1,1,1-Trichloroethane | 3.363 | 97 | 275584 | 8.522 | ppbv | 94 |
| 34) 2-Butanone | 2.554 | 43 | 324639 | 10.179 | ppbv | 96 |
| 35) Carbon Tetrachloride | 3.755 | 117 | 281106 | 9.958 | ppbv | 93 |
| 36) Benzene | 3.651 | 78 | 410714 | 9.584 | ppbv | 98 |
| 37) 1,2-Dichloroethane | 3.214 | 62 | 235420 | 9.908 | ppbv | 98 |
| 38) Trichloroethene | 4.541 | 130 | 154616 | 8.836 | ppbv | 99 |
| 39) 1,2-Dichloropropane | 4.308 | 63 | 159010 | 9.776 | ppbv | 95 |
| 40) 1,4-Dioxane | 4.577 | 88 | 69401 | 9.347 | ppbv # | 99 |
| 41) Tetrahydrofuran | 3.052 | 42 | 189509 | 10.057 | ppbv | 97 |
| 42) Bromodichloromethane | 4.483 | 83 | 315387 | 9.852 | ppbv | 97 |
| 43) Methyl Methacrylate | 4.871 | 69 | 160485 | 9.589 | ppbv | 92 |
| 44) 2,2,4-Trimethylpentane | 4.635 | 57 | 731737 | 9.675 | ppbv | 98 |
| 45) t-1,3-Dichloropropene | 6.409 | 75 | 150198 | 9.033 | ppbv | 89 |

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
Data File : VL042075.D
Acq On : 03 Mar 2025 12:15
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 04 00:16:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 03/04/2025
Supervised By :Mahesh Dadoda 03/05/2025

| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 46) | cis-1,3-Dichloropropene | 5.590 | 75 | 201389 | 9.360 | ppbv | | 97 |
| 47) | 1,1,2-Trichloroethane | 6.574 | 97 | 155548 | 9.419 | ppbv | | 94 |
| 48) | Dibromochloromethane | 7.380 | 129 | 244551 | 9.456 | ppbv | | 99 |
| 49) | Bromoform | 9.477 | 173 | 215068 | 9.576 | ppbv | | 99 |
| 50) | 4-Methyl-2-Pentanone | 5.742 | 43 | 451104 | 10.937 | ppbv | | 97 |
| 51) | 2-Hexanone | 7.428 | 43 | 364047 | 12.824 | ppbv | # | 98 |
| 52) | Tetrachloroethene | 8.218 | 164 | 135049 | 9.205 | ppbv | | 96 |
| 53) | Toluene | 6.926 | 91 | 448652 | 9.368 | ppbv | | 99 |
| 54) | 1,2-Dibromoethane | 7.645 | 107 | 207672 | 9.302 | ppbv | | 97 |
| 56) | 1,1,1,2-Tetrachloroethane | 8.917 | 131 | 186364 | 9.414 | ppbv | | 99 |
| 57) | Chlorobenzene | 8.917 | 112 | 344415 | 9.485 | ppbv | | 99 |
| 58) | Ethyl Benzene | 9.351 | 91 | 617808 | 9.578 | ppbv | | 99 |
| 59) | m/p-Xylene | 9.545 | 91 | 999203m | 19.467 | ppbv | | |
| 60) | o-Xylene | 9.959 | 91 | 499183 | 9.674 | ppbv | | 99 |
| 61) | Styrene | 9.865 | 104 | 239891 | 9.888 | ppbv | | 99 |
| 62) | Isopropylbenzene | 10.535 | 105 | 742029 | 9.602 | ppbv | | 100 |
| 63) | 1,1,2,2-Tetrachloroethane | 9.956 | 83 | 327826 | 9.647 | ppbv | | 99 |
| 64) | n-propylbenzene | 10.985 | 120 | 194972 | 9.618 | ppbv | | 95 |
| 65) | tert-Butylbenzene | 11.529 | 119 | 655219 | 9.316 | ppbv | | 98 |
| 66) | Benzyl Chloride | 11.613 | 91 | 44259 | 8.247 | ppbv | | 99 |
| 67) | sec-Butylbenzene | 11.765 | 105 | 956463 | 9.509 | ppbv | | 100 |
| 69) | p-Isopropyltoluene | 11.924 | 119 | 773774 | 9.669 | ppbv | | 99 |
| 70) | n-Butylbenzene | 12.280 | 91 | 803607 | 9.837 | ppbv | | 99 |
| 71) | 2-Chlorotoluene | 10.898 | 91 | 568423 | 9.541 | ppbv | | 99 |
| 72) | 4-Ethyltoluene | 11.121 | 105 | 607815 | 9.647 | ppbv | | 99 |
| 73) | 1,3,5-Trimethylbenzene | 11.199 | 105 | 516320 | 9.447 | ppbv | | 99 |
| 74) | 1,2,4-Trimethylbenzene | 11.532 | 105 | 569704 | 9.257 | ppbv | # | 91 |
| 75) | 1,3-Dichlorobenzene | 11.603 | 146 | 332997 | 9.402 | ppbv | | 98 |
| 76) | 1,4-Dichlorobenzene | 11.668 | 146 | 334533 | 9.513 | ppbv | | 99 |
| 77) | 1,2-Dichlorobenzene | 11.943 | 146 | 328836 | 9.567 | ppbv | | 99 |
| 78) | Hexachloro-1,3-Butadiene | 13.879 | 225 | 235840 | 8.819 | ppbv | | 98 |
| 79) | Naphthalene | 13.510 | 128 | 519908 | 12.321 | ppbv | | 99 |
| 80) | Naphthalene,2-methyl- | 14.455 | 142 | 193268 | 16.737 | ppbv | | 98 |
| 81) | 1,2,4-Trichlorobenzene | 13.439 | 180 | 237980 | 10.120 | ppbv | | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

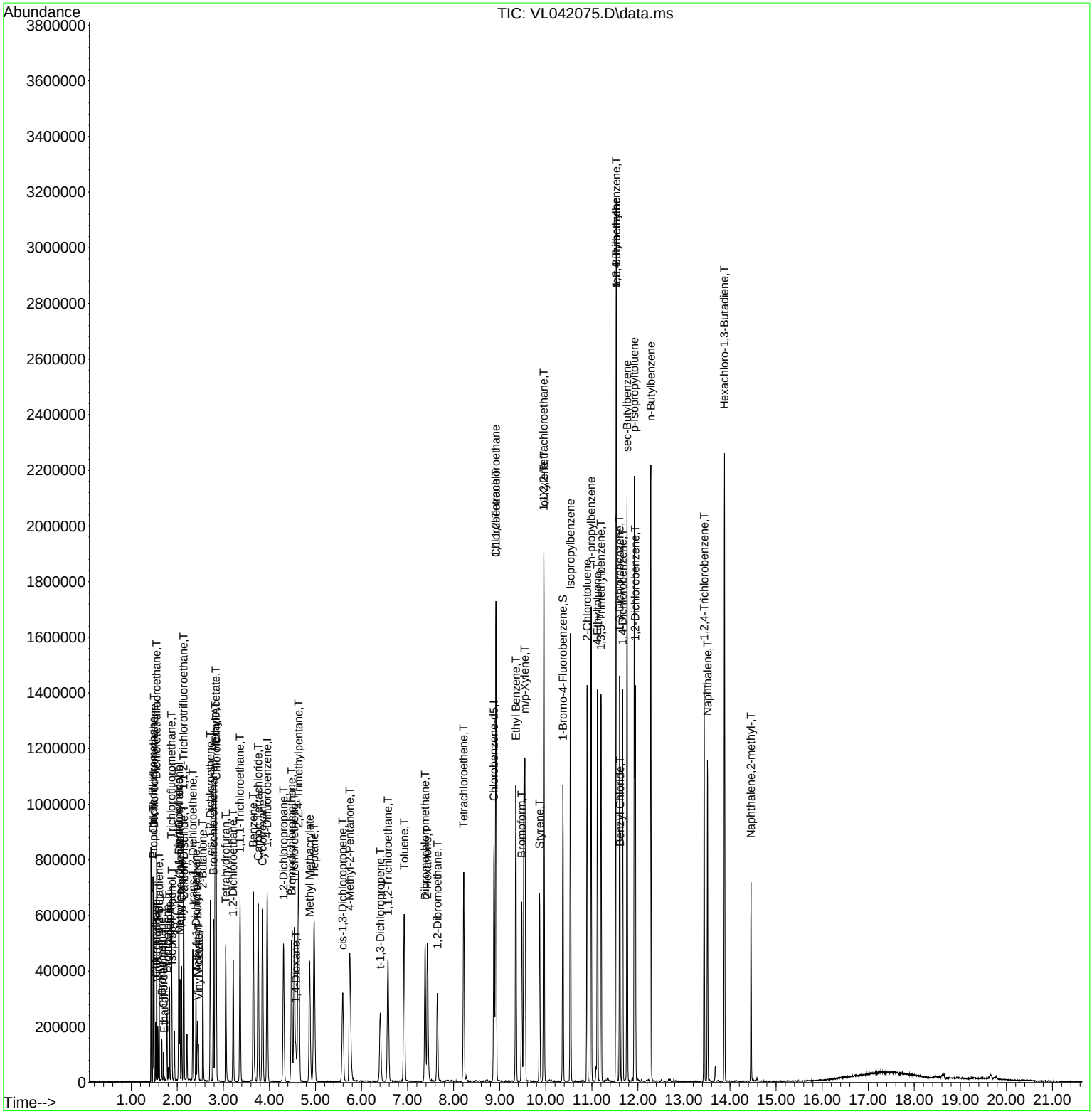
Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
Data File : VL042075.D
Acq On : 03 Mar 2025 12:15
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 04 00:16:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 03/04/2025
Supervised By :Mahesh Dadoda 03/05/2025



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
Data File : VL042075.D
Acq On : 03 Mar 2025 12:15
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**LabSampleId :**
VSTDCCC010

Quant Time: Mar 04 00:16:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Bromochloromethane | 1.000 | 1.000 | 0.0 | 108 | -0.02 |
| 2 | T | Dichlorodifluoromethane | 1.040 | 1.021 | 1.8 | 116 | 0.00 |
| 3 | | Chlorodifluoromethane | 1.453 | 1.323 | 8.9 | 109 | 0.00 |
| 4 | | Chloromethane | 0.385 | 0.353 | 8.3 | 111 | 0.00 |
| 5 | T | Vinyl Chloride | 0.364 | 0.348 | 4.4 | 111 | 0.00 |
| 6 | T | Bromomethane | 0.173 | 0.174 | -0.6 | 117 | 0.00 |
| 7 | | Chloroethane | 0.148 | 0.139 | 6.1 | 111 | 0.00 |
| 8 | T | Dichlorotetrafluoroethane | 0.855 | 0.831 | 2.8 | 115 | 0.00 |
| 9 | T | Propene | 0.592 | 0.549 | 7.3 | 113 | 0.00 |
| 10 | T | Heptane | 1.844 | 1.646 | 10.7 | 107 | -0.04 |
| 11 | T | Trichlorofluoromethane | 1.042 | 1.082 | -3.8 | 123 | 0.00 |
| 12 | T | 1,1,2-Trichlorotrifluoroeth | 0.831 | 0.821 | 1.2 | 127 | 0.00 |
| 13 | | Ethanol | 0.038 | 0.019# | 50.0# | 106 | 0.00 |
| 14 | T | Bromoethene | 0.293 | 0.280 | 4.4 | 114 | 0.00 |
| 15 | T | Acetone | 0.883 | 0.773 | 12.5 | 116 | 0.00 |
| 16 | T | 1,3-Butadiene | 0.411 | 0.375 | 8.8 | 113 | 0.00 |
| 17 | | tert-Butyl alcohol | 1.105 | 1.009 | 8.7 | 114 | -0.01 |
| 18 | T | 1,1-Dichloroethene | 0.376 | 0.362 | 3.7 | 122 | -0.01 |
| 19 | T | Isopropyl Alcohol | 0.507 | 0.460 | 9.3 | 118 | 0.00 |
| 20 | T | Methylene Chloride | 0.334 | 0.306 | 8.4 | 126 | 0.00 |
| 21 | T | Allyl Chloride | 0.638 | 0.622 | 2.5 | 124 | -0.01 |
| 22 | T | trans-1,2-Dichloroethene | 0.438 | 0.419 | 4.3 | 126 | -0.01 |
| 23 | T | Vinyl Acetate | 0.621 | 0.519 | 16.4 | 107 | -0.01 |
| 24 | T | 1,1-Dichloroethane | 0.815 | 0.788 | 3.3 | 127 | -0.01 |
| 25 | T | Ethyl Acetate | 3.535 | 3.248 | 8.1 | 110 | -0.02 |
| 26 | T | Hexane | 1.429 | 1.250 | 12.5 | 105 | -0.02 |
| 27 | T | Carbon Disulfide | 0.969 | 0.960 | 0.9 | 121 | -0.01 |
| 28 | T | Methyl tert-Butyl Ether | 0.711 | 0.591 | 16.9 | 122 | -0.01 |
| 29 | T | Chloroform | 1.923 | 1.697 | 11.8 | 106 | -0.02 |
| 30 | T | Cyclohexane | 1.160 | 0.983 | 15.3 | 98 | -0.02 |
| 31 | T | cis-1,2-Dichloroethene | 1.353 | 1.208 | 10.7 | 105 | -0.02 |
| 32 | T | 1,1,1-Trichloroethane | 1.866 | 1.590 | 14.8 | 97 | -0.02 |
| 33 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 97 | -0.03 |
| 34 | T | 2-Butanone | 0.779 | 0.793 | -1.8 | 111 | -0.02 |
| 35 | T | Carbon Tetrachloride | 0.690 | 0.687 | 0.4 | 102 | -0.03 |
| 36 | T | Benzene | 1.047 | 1.003 | 4.2 | 100 | -0.02 |
| 37 | T | 1,2-Dichloroethane | 0.580 | 0.575 | 0.9 | 107 | -0.02 |
| 38 | T | Trichloroethene | 0.427 | 0.378 | 11.5 | 97 | -0.03 |
| 39 | T | 1,2-Dichloropropane | 0.397 | 0.388 | 2.3 | 105 | -0.03 |
| 40 | T | 1,4-Dioxane | 0.181 | 0.170 | 6.1 | 100 | -0.03 |
| 41 | T | Tetrahydrofuran | 0.460 | 0.463 | -0.7 | 107 | -0.02 |
| 42 | T | Bromodichloromethane | 0.782 | 0.770 | 1.5 | 101 | -0.03 |
| 43 | | Methyl Methacrylate | 0.409 | 0.392 | 4.2 | 97 | -0.04 |
| 44 | T | 2,2,4-Trimethylpentane | 1.848 | 1.787 | 3.3 | 104 | -0.03 |
| 45 | T | t-1,3-Dichloropropene | 0.406 | 0.367 | 9.6 | 90 | -0.04 |
| 46 | T | cis-1,3-Dichloropropene | 0.526 | 0.492 | 6.5 | 92 | -0.04 |
| 47 | T | 1,1,2-Trichloroethane | 0.403 | 0.380 | 5.7 | 102 | -0.04 |
| 48 | T | Dibromochloromethane | 0.632 | 0.597 | 5.5 | 97 | -0.03 |

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
Data File : VL042075.D
Acq On : 03 Mar 2025 12:15
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**LabSampleId :**
VSTDCCC010

Quant Time: Mar 04 00:16:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | Bromoform | 0.549 | 0.525 | 4.4 | 97 | -0.03 |
| 50 | T | 4-Methyl-2-Pentanone | 1.008 | 1.102 | -9.3 | 105 | -0.05 |
| 51 | T | 2-Hexanone | 0.693 | 0.889 | -28.3 | 103 | -0.04 |
| 52 | T | Tetrachloroethene | 0.358 | 0.330 | 7.8 | 98 | -0.03 |
| 53 | T | Toluene | 1.170 | 1.096 | 6.3 | 98 | -0.03 |
| 54 | T | 1,2-Dibromoethane | 0.545 | 0.507 | 7.0 | 98 | -0.03 |
| 55 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 94 | -0.03 |
| 56 | | 1,1,1,2-Tetrachloroethane | 0.565 | 0.532 | 5.8 | 99 | -0.03 |
| 57 | T | Chlorobenzene | 1.037 | 0.983 | 5.2 | 101 | -0.02 |
| 58 | T | Ethyl Benzene | 1.842 | 1.764 | 4.2 | 97 | -0.02 |
| 59 | T | m/p-Xylene | 1.466 | 1.426 | 2.7 | 100 | 0.00 |
| 60 | T | o-Xylene | 1.473 | 1.425 | 3.3 | 101 | -0.02 |
| 61 | T | Styrene | 0.693 | 0.685 | 1.2 | 97 | -0.02 |
| 62 | | Isopropylbenzene | 2.207 | 2.119 | 4.0 | 101 | -0.02 |
| 63 | T | 1,1,2,2-Tetrachloroethane | 0.970 | 0.936 | 3.5 | 103 | -0.02 |
| 64 | | n-propylbenzene | 0.579 | 0.557 | 3.8 | 99 | -0.02 |
| 65 | | tert-Butylbenzene | 2.008 | 1.871 | 6.8 | 101 | -0.02 |
| 66 | T | Benzyl Chloride | 0.153 | 0.126 | 17.6 | 77 | -0.02 |
| 67 | | sec-Butylbenzene | 2.872 | 2.731 | 4.9 | 103 | -0.02 |
| 68 | S | 1-Bromo-4-Fluorobenzene | 0.769 | 0.781 | -1.6 | 96 | -0.02 |
| 69 | | p-Isopropyltoluene | 2.285 | 2.209 | 3.3 | 102 | -0.02 |
| 70 | | n-Butylbenzene | 2.332 | 2.294 | 1.6 | 104 | -0.02 |
| 71 | | 2-Chlorotoluene | 1.701 | 1.623 | 4.6 | 100 | -0.02 |
| 72 | T | 4-Ethyltoluene | 1.799 | 1.735 | 3.6 | 100 | -0.02 |
| 73 | T | 1,3,5-Trimethylbenzene | 1.560 | 1.474 | 5.5 | 100 | -0.02 |
| 74 | T | 1,2,4-Trimethylbenzene | 1.757 | 1.627 | 7.4 | 104 | -0.02 |
| 75 | T | 1,3-Dichlorobenzene | 1.011 | 0.951 | 5.9 | 102 | -0.02 |
| 76 | T | 1,4-Dichlorobenzene | 1.004 | 0.955 | 4.9 | 104 | -0.02 |
| 77 | T | 1,2-Dichlorobenzene | 0.981 | 0.939 | 4.3 | 105 | -0.02 |
| 78 | T | Hexachloro-1,3-Butadiene | 0.764 | 0.673 | 11.9 | 99 | -0.02 |
| 79 | T | Naphthalene | 1.205 | 1.484 | -23.2 | 101 | -0.02 |
| 80 | T | Naphthalene,2-methyl- | 0.330 | 0.552 | -67.3# | 92 | -0.02 |
| 81 | T | 1,2,4-Trichlorobenzene | 0.671 | 0.679 | -1.2 | 99 | -0.02 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
Data File : VL042076.D
Acq On : 03 Mar 2025 14:49
Operator : SY/MD
Sample : VL0303ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0303ABL01

Quant Time: Mar 04 00:17:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

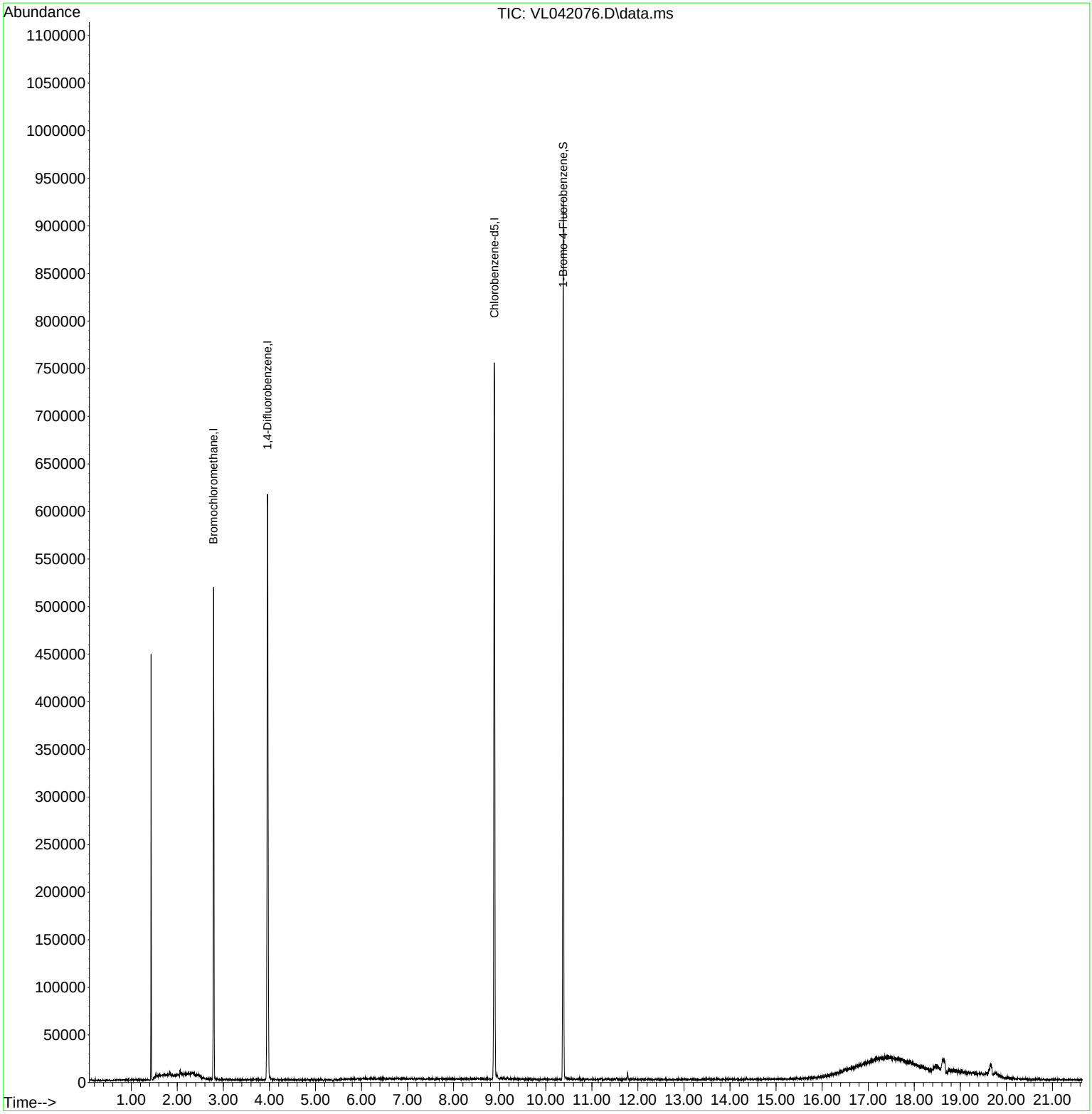
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.787 | 49 | 156551 | 10.000 | ppbv | -0.01 |
| 33) 1,4-Difluorobenzene | 3.959 | 114 | 349743 | 10.000 | ppbv | -0.02 |
| 55) Chlorobenzene-d5 | 8.882 | 117 | 302717 | 10.000 | ppbv | -0.02 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95 | 224142 | 9.624 | ppbv | -0.02 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 96.200% | | | |
| Target Compounds | | | | | | Qvalue |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
Data File : VL042076.D
Acq On : 03 Mar 2025 14:49
Operator : SY/MD
Sample : VL0303ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0303ABL01

Quant Time: Mar 04 00:17:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
Data File : VL042077.D
Acq On : 03 Mar 2025 15:19
Operator : SY/MD
Sample : VL0303ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 04 00:17:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0303ABS01

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 03/04/2025
Supervised By :Mahesh Dadoda 03/05/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.787 | 49 | 157956 | 10.000 | ppbv | -0.01 |
| 33) 1,4-Difluorobenzene | 3.959 | 114 | 356972 | 10.000 | ppbv | -0.02 |
| 55) Chlorobenzene-d5 | 8.882 | 117 | 309763 | 10.000 | ppbv | -0.02 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95 | 242622 | 10.181 | ppbv | -0.02 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 101.800% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.499 | 85 | 174930 | 10.650 | ppbv | 99 |
| 3) Chlorodifluoromethane | 1.476 | 51 | 222297 | 9.683 | ppbv | 100 |
| 4) Chloromethane | 1.531 | 50 | 62156 | 10.233 | ppbv | 97 |
| 5) Vinyl Chloride | 1.580 | 62 | 59385 | 10.336 | ppbv | 100 |
| 6) Bromomethane | 1.667 | 94 | 28458 | 10.402 | ppbv | 97 |
| 7) Chloroethane | 1.703 | 64 | 24205 | 10.368 | ppbv | 93 |
| 8) Dichlorotetrafluoroethane | 1.554 | 85 | 142918 | 10.584 | ppbv | 98 |
| 9) Propene | 1.483 | 41 | 90270 | 9.652 | ppbv | 98 |
| 10) Heptane | 4.978 | 43 | 279114 | 9.585 | ppbv | 97 |
| 11) Trichlorofluoromethane | 1.878 | 101 | 191850 | 11.657 | ppbv | 99 |
| 12) 1,1,2-Trichlorotrifluo... | 2.140 | 101 | 147601 | 11.243 | ppbv | 95 |
| 13) Ethanol | 1.722 | 45 | 3648 | 6.145 | ppbv | 97 |
| 14) Bromoethene | 1.780 | 108 | 48227 | 10.403 | ppbv | 100 |
| 15) Acetone | 1.835 | 43 | 137515 | 9.858 | ppbv | 100 |
| 16) 1,3-Butadiene | 1.609 | 39 | 64593 | 9.950 | ppbv | 97 |
| 17) tert-Butyl alcohol | 2.039 | 59 | 167124 | 9.576 | ppbv | 100 |
| 18) 1,1-Dichloroethene | 2.033 | 96 | 61659 | 10.394 | ppbv | 91 |
| 19) Isopropyl Alcohol | 1.887 | 45 | 78936 | 9.851 | ppbv | 98 |
| 20) Methylene Chloride | 2.062 | 84 | 52065 | 9.868 | ppbv | 96 |
| 21) Allyl Chloride | 2.098 | 41 | 105683 | 10.486 | ppbv | 99 |
| 22) trans-1,2-Dichloroethene | 2.340 | 96 | 70753 | 10.232 | ppbv | 93 |
| 23) Vinyl Acetate | 2.463 | 43 | 74937 | 7.640 | ppbv | 98 |
| 24) 1,1-Dichloroethane | 2.408 | 63 | 137183 | 10.661 | ppbv | 100 |
| 25) Ethyl Acetate | 2.836 | 43 | 548497 | 9.824 | ppbv | 99 |
| 26) Hexane | 2.826 | 57 | 207965 | 9.213 | ppbv | 92 |
| 27) Carbon Disulfide | 2.149 | 76 | 168252 | 10.996 | ppbv | 99 |
| 28) Methyl tert-Butyl Ether | 2.441 | 73 | 94112 | 8.374 | ppbv | 100 |
| 29) Chloroform | 2.849 | 83 | 286765 | 9.439 | ppbv | 97 |
| 30) Cyclohexane | 3.858 | 84 | 163145 | 8.905 | ppbv | 91 |
| 31) cis-1,2-Dichloroethene | 2.722 | 61 | 199200 | 9.322 | ppbv | 97 |
| 32) 1,1,1-Trichloroethane | 3.370 | 97 | 269140 | 9.133 | ppbv | 95 |
| 34) 2-Butanone | 2.557 | 43 | 313084 | 11.258 | ppbv | 95 |
| 35) Carbon Tetrachloride | 3.765 | 117 | 268731 | 10.917 | ppbv | 96 |
| 36) Benzene | 3.658 | 78 | 390842 | 10.459 | ppbv | 96 |
| 37) 1,2-Dichloroethane | 3.218 | 62 | 227067 | 10.959 | ppbv | 98 |
| 38) Trichloroethene | 4.551 | 130 | 148971 | 9.762 | ppbv | 94 |
| 39) 1,2-Dichloropropane | 4.315 | 63 | 151311 | 10.668 | ppbv | 96 |
| 40) 1,4-Dioxane | 4.587 | 88 | 67241 | 10.385 | ppbv # | 91 |
| 41) Tetrahydrofuran | 3.056 | 42 | 183578 | 11.172 | ppbv | 93 |
| 42) Bromodichloromethane | 4.490 | 83 | 302583 | 10.839 | ppbv | 100 |
| 43) Methyl Methacrylate | 4.881 | 69 | 150871 | 10.338 | ppbv | 91 |
| 44) 2,2,4-Trimethylpentane | 4.638 | 57 | 718377 | 10.892 | ppbv | 98 |
| 45) t-1,3-Dichloropropene | 6.415 | 75 | 139814 | 9.643 | ppbv | 100 |

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
Data File : VL042077.D
Acq On : 03 Mar 2025 15:19
Operator : SY/MD
Sample : VL0303ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 04 00:17:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0303ABS01

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 03/04/2025
Supervised By :Mahesh Dadoda 03/05/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.606 | 75 | 189075 | 10.077 | ppbv | 95 |
| 47) 1,1,2-Trichloroethane | 6.587 | 97 | 146747 | 10.191 | ppbv | 97 |
| 48) Dibromochloromethane | 7.390 | 129 | 229765 | 10.188 | ppbv | 99 |
| 49) Bromoform | 9.487 | 173 | 205188 | 10.477 | ppbv | 98 |
| 50) 4-Methyl-2-Pentanone | 5.752 | 43 | 434273 | 12.074 | ppbv | 95 |
| 51) 2-Hexanone | 7.438 | 43 | 347904 | 14.054 | ppbv # | 96 |
| 52) Tetrachloroethene | 8.225 | 164 | 128803 | 10.068 | ppbv | 97 |
| 53) Toluene | 6.933 | 91 | 428586 | 10.262 | ppbv | 97 |
| 54) 1,2-Dibromoethane | 7.652 | 107 | 199250 | 10.235 | ppbv | 100 |
| 56) 1,1,1,2-Tetrachloroethane | 8.927 | 131 | 181131 | 10.346 | ppbv | 99 |
| 57) Chlorobenzene | 8.924 | 112 | 328409 | 10.225 | ppbv | 98 |
| 58) Ethyl Benzene | 9.357 | 91 | 596825 | 10.462 | ppbv | 100 |
| 59) m/p-Xylene | 9.552 | 91 | 977538m | 21.533 | ppbv | |
| 60) o-Xylene | 9.966 | 91 | 488769 | 10.710 | ppbv | 100 |
| 61) Styrene | 9.872 | 104 | 226533 | 10.558 | ppbv | 99 |
| 62) Isopropylbenzene | 10.542 | 105 | 733758 | 10.735 | ppbv | 99 |
| 63) 1,1,2,2-Tetrachloroethane | 9.963 | 83 | 327069 | 10.882 | ppbv | 99 |
| 64) n-propylbenzene | 10.992 | 120 | 192573 | 10.741 | ppbv | 97 |
| 65) tert-Butylbenzene | 11.532 | 119 | 643195 | 10.340 | ppbv | 98 |
| 66) Benzyl Chloride | 11.617 | 91 | 39375 | 8.295 | ppbv | 98 |
| 67) sec-Butylbenzene | 11.769 | 105 | 940060 | 10.567 | ppbv | 100 |
| 69) p-Isopropyltoluene | 11.927 | 119 | 759761 | 10.734 | ppbv | 100 |
| 70) n-Butylbenzene | 12.283 | 91 | 795433 | 11.010 | ppbv | 99 |
| 71) 2-Chlorotoluene | 10.901 | 91 | 553780 | 10.510 | ppbv | 99 |
| 72) 4-Ethyltoluene | 11.128 | 105 | 592316 | 10.629 | ppbv | 99 |
| 73) 1,3,5-Trimethylbenzene | 11.206 | 105 | 508702 | 10.524 | ppbv | 98 |
| 74) 1,2,4-Trimethylbenzene | 11.539 | 105 | 557804 | 10.248 | ppbv | 97 |
| 75) 1,3-Dichlorobenzene | 11.610 | 146 | 328061 | 10.473 | ppbv | 98 |
| 76) 1,4-Dichlorobenzene | 11.675 | 146 | 328671 | 10.568 | ppbv | 100 |
| 77) 1,2-Dichlorobenzene | 11.950 | 146 | 324906 | 10.688 | ppbv | 100 |
| 78) Hexachloro-1,3-Butadiene | 13.886 | 225 | 232449 | 9.827 | ppbv | 99 |
| 79) Naphthalene | 13.517 | 128 | 503470 | 13.490 | ppbv | 98 |
| 80) Naphthalene,2-methyl- | 14.462 | 142 | 184155 | 18.031 | ppbv | 97 |
| 81) 1,2,4-Trichlorobenzene | 13.442 | 180 | 227832 | 10.954 | ppbv | 98 |

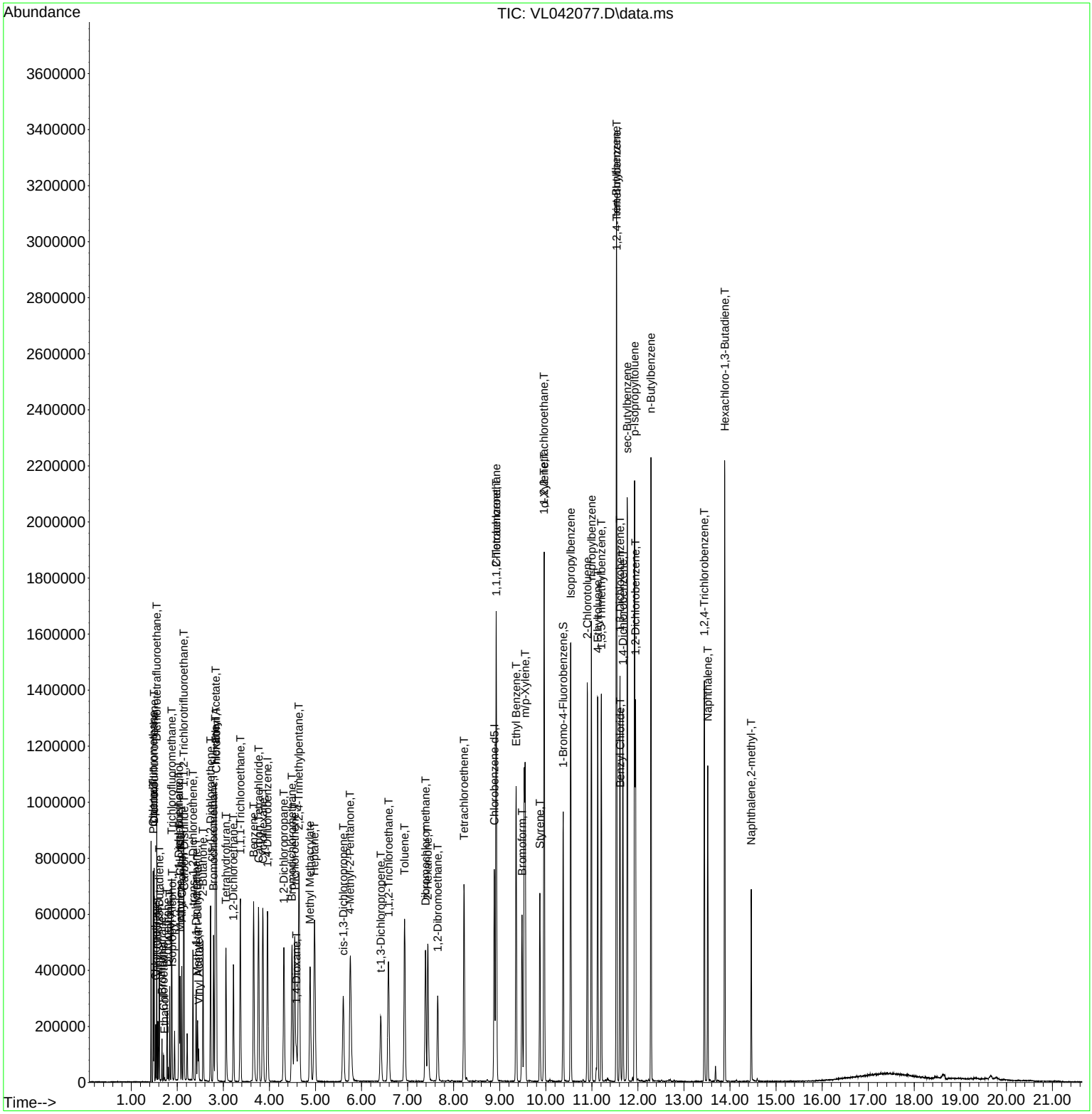
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
Data File : VL042077.D
Acq On : 03 Mar 2025 15:19
Operator : SY/MD
Sample : VL0303ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 04 00:17:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0303ABS01

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 03/04/2025
Supervised By :Mahesh Dadoda 03/05/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
Data File : VL042078.D
Acq On : 03 Mar 2025 15:52
Operator : SY/MD
Sample : QC022725 CAN 10331
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
QC022725 CAN 10331

Quant Time: Mar 04 00:18:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

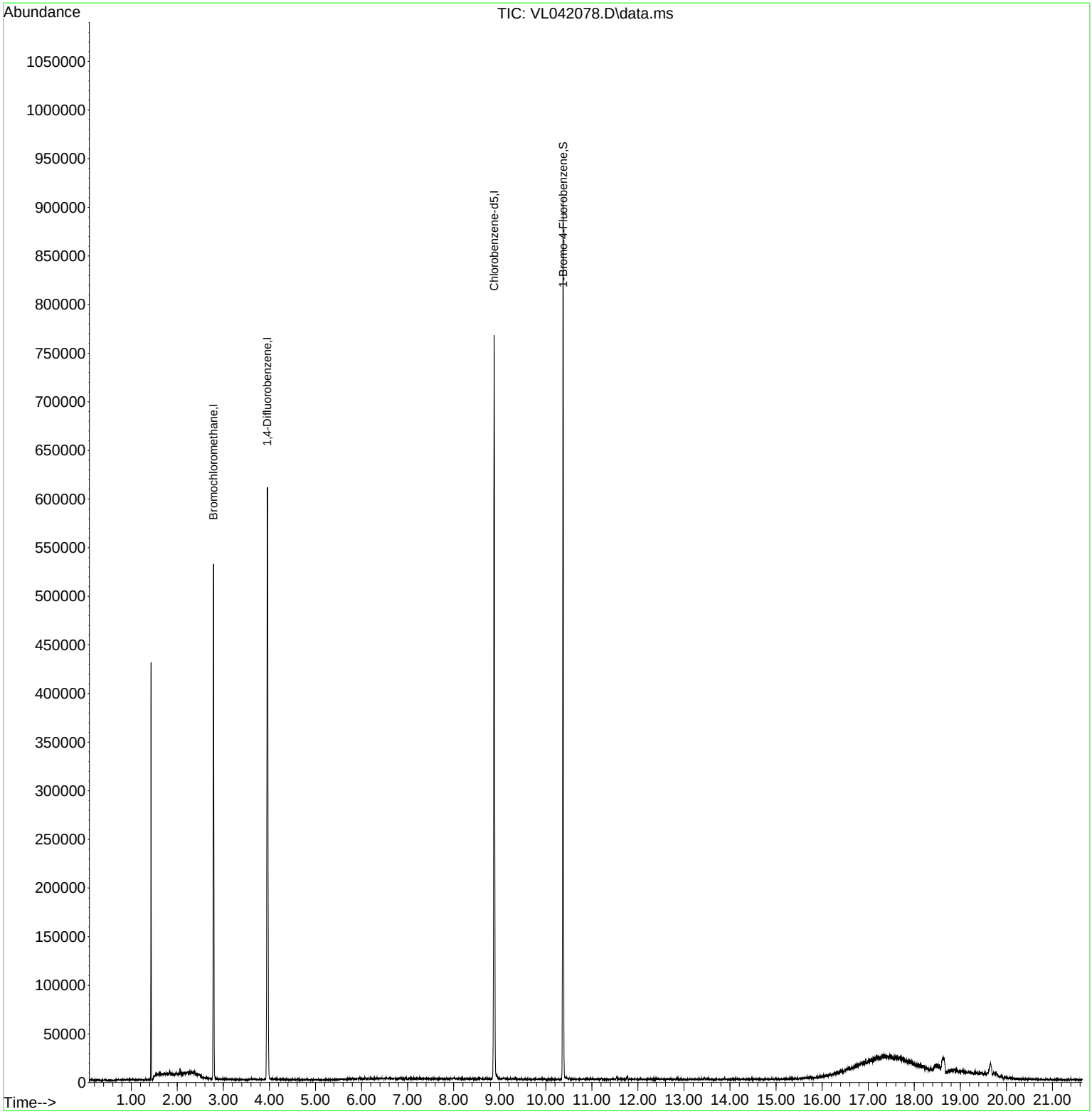
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.787 | 49 | 158432 | 10.000 | ppbv | -0.01 |
| 33) 1,4-Difluorobenzene | 3.955 | 114 | 355709 | 10.000 | ppbv | -0.02 |
| 55) Chlorobenzene-d5 | 8.878 | 117 | 304769 | 10.000 | ppbv | -0.02 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.374 | 95 | 223606 | 9.537 | ppbv | -0.02 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 95.400% | | | |
| Target Compounds | | | | | | Qvalue |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
Data File : VL042078.D
Acq On : 03 Mar 2025 15:52
Operator : SY/MD
Sample : QC022725 CAN 10331
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
QC022725 CAN 10331

Quant Time: Mar 04 00:18:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration



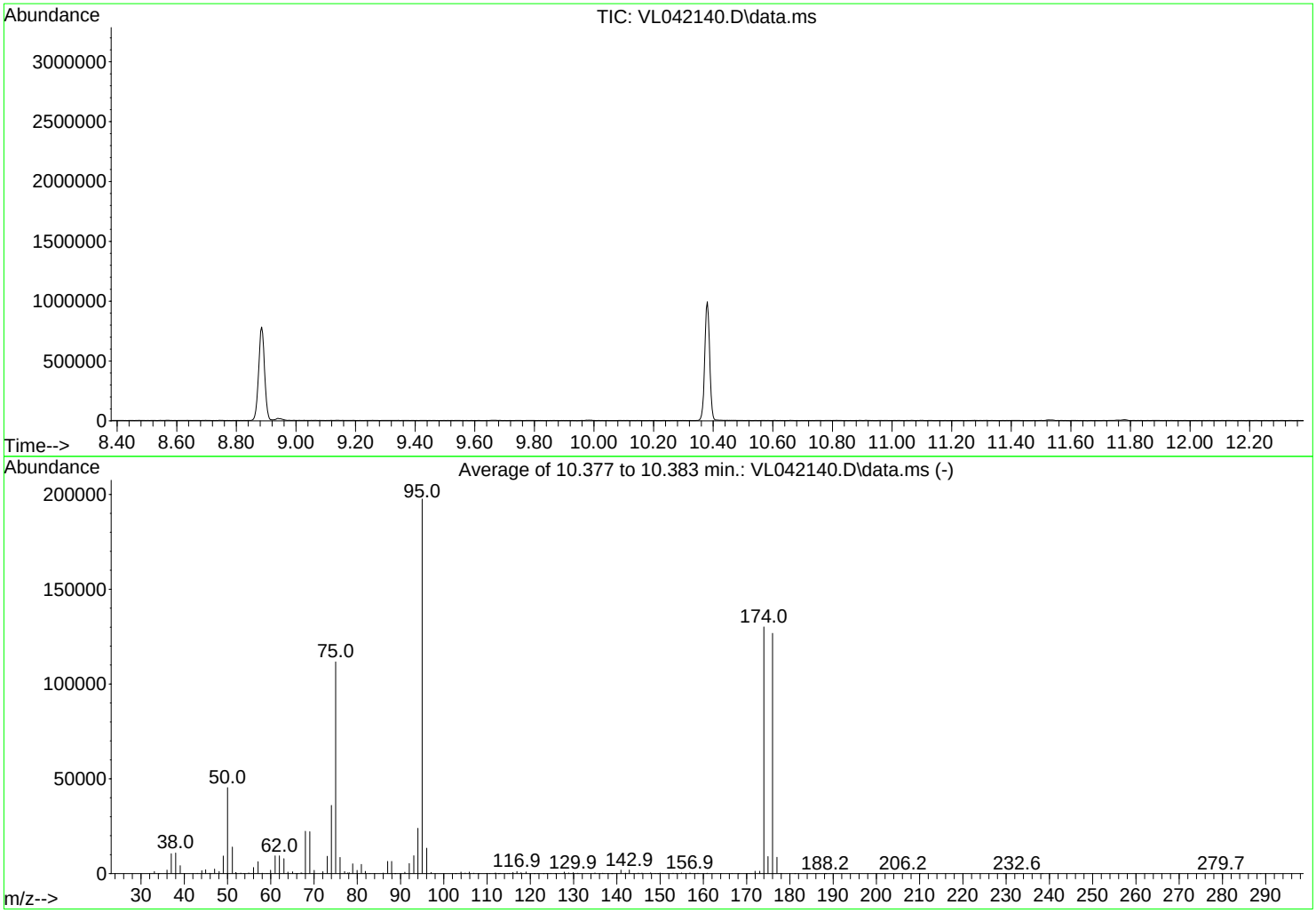
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
Data File : VL042140.D
Acq On : 14 Mar 2025 07:56
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Wed Feb 26 01:08:36 2025




AutoFind: Scans 3179, 3180, 3181; Background Corrected with Scan 3165

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 8 | 40 | 22.9 | 45333 | PASS |
| 75 | 95 | 30 | 66 | 56.5 | 111685 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 197589 | PASS |
| 96 | 95 | 5 | 9 | 6.8 | 13388 | PASS |
| 173 | 174 | 0.00 | 2 | 1.0 | 1315 | PASS |
| 174 | 95 | 50 | 120 | 65.9 | 130120 | PASS |
| 175 | 174 | 4 | 9 | 6.9 | 8967 | PASS |
| 176 | 174 | 93 | 101 | 97.4 | 126715 | PASS |
| 177 | 176 | 5 | 9 | 6.8 | 8618 | PASS |

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
Data File : VL042141.D
Acq On : 14 Mar 2025 08:39
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 14 23:16:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 03/17/2025
Supervised By :Mahesh Dadoda 03/17/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Bromochloromethane | 2.784 | 49 | 175939 | 10.000 | ppbv | -0.02 |
| 33) 1,4-Difluorobenzene | 3.959 | 114 | 420429 | 10.000 | ppbv | -0.02 |
| 55) Chlorobenzene-d5 | 8.882 | 117 | 358414 | 10.000 | ppbv | -0.02 |
| **System Monitoring Compounds** | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95 | 293332 | 10.638 | ppbv | -0.02 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 106.400% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.499 | 85 | 191974 | 10.493 | ppbv | 100 |
| 3) Chlorodifluoromethane | 1.476 | 51 | 228149 | 8.922 | ppbv | 100 |
| 4) Chloromethane | 1.532 | 50 | 72618 | 10.733 | ppbv | 97 |
| 5) Vinyl Chloride | 1.580 | 62 | 70955 | 11.087 | ppbv | 96 |
| 6) Bromomethane | 1.667 | 94 | 34387 | 11.284 | ppbv | 97 |
| 7) Chloroethane | 1.703 | 64 | 27399 | 10.537 | ppbv | 94 |
| 8) Dichlorotetrafluoroethane | 1.554 | 85 | 161623 | 10.746 | ppbv | 98 |
| 9) Propene | 1.483 | 41 | 95933 | 9.209 | ppbv | 98 |
| 10) Heptane | 4.979 | 43 | 269945 | 8.323 | ppbv | 98 |
| 11) Trichlorofluoromethane | 1.875 | 101 | 202929 | 11.070 | ppbv | 97 |
| 12) 1,1,2-Trichlorotrifluo... | 2.137 | 101 | 150319 | 10.280 | ppbv | 96 |
| 13) Ethanol | 1.719 | 45 | 5940 | 8.982 | ppbv | 91 |
| 14) Bromoethene | 1.781 | 108 | 55223 | 10.694 | ppbv | 99 |
| 15) Acetone | 1.836 | 43 | 157921 | 10.164 | ppbv | 98 |
| 16) 1,3-Butadiene | 1.609 | 39 | 76015 | 10.513 | ppbv | 99 |
| 17) tert-Butyl alcohol | 2.040 | 59 | 177586 | 9.136 | ppbv | 100 |
| 18) 1,1-Dichloroethene | 2.033 | 96 | 64716 | 9.795 | ppbv | 92 |
| 19) Isopropyl Alcohol | 1.884 | 45 | 90039 | 10.088 | ppbv | 96 |
| 20) Methylene Chloride | 2.059 | 84 | 64336 | 10.947 | ppbv | 97 |
| 21) Allyl Chloride | 2.095 | 41 | 113949 | 10.150 | ppbv | 97 |
| 22) trans-1,2-Dichloroethene | 2.341 | 96 | 80485 | 10.449 | ppbv | 90 |
| 23) Vinyl Acetate | 2.460 | 43 | 94433 | 8.644 | ppbv | 99 |
| 24) 1,1-Dichloroethane | 2.409 | 63 | 154561 | 10.784 | ppbv | 99 |
| 25) Ethyl Acetate | 2.836 | 43 | 552236 | 8.880 | ppbv | 99 |
| 26) Hexane | 2.823 | 57 | 224625 | 8.934 | ppbv | 98 |
| 27) Carbon Disulfide | 2.150 | 76 | 186073 | 10.918 | ppbv | 99 |
| 28) Methyl tert-Butyl Ether | 2.438 | 73 | 106326 | 8.494 | ppbv | 99 |
| 29) Chloroform | 2.849 | 83 | 296552 | 8.764 | ppbv | 99 |
| 30) Cyclohexane | 3.855 | 84 | 163459 | 8.010 | ppbv | 95 |
| 31) cis-1,2-Dichloroethene | 2.719 | 61 | 193004 | 8.109 | ppbv | 98 |
| 32) 1,1,1-Trichloroethane | 3.367 | 97 | 268630 | 8.184 | ppbv | 95 |
| 34) 2-Butanone | 2.558 | 43 | 305355 | 9.323 | ppbv | 96 |
| 35) Carbon Tetrachloride | 3.762 | 117 | 279849 | 9.653 | ppbv | 99 |
| 36) Benzene | 3.655 | 78 | 399974 | 9.088 | ppbv | 95 |
| 37) 1,2-Dichloroethane | 3.218 | 62 | 217321 | 8.906 | ppbv | 100 |
| 38) Trichloroethene | 4.548 | 130 | 152158 | 8.466 | ppbv | 96 |
| 39) 1,2-Dichloropropane | 4.315 | 63 | 150906 | 9.033 | ppbv | 96 |
| 40) 1,4-Dioxane | 4.580 | 88 | 67340 | 8.830 | ppbv # | 99 |
| 41) Tetrahydrofuran | 3.056 | 42 | 174452 | 9.014 | ppbv | 98 |
| 42) Bromodichloromethane | 4.487 | 83 | 307764 | 9.361 | ppbv | 93 |
| 43) Methyl Methacrylate | 4.881 | 69 | 145265 | 8.451 | ppbv | 96 |
| 44) 2,2,4-Trimethylpentane | 4.635 | 57 | 717940 | 9.243 | ppbv | 98 |
| 45) t-1,3-Dichloropropene | 6.412 | 75 | 135149 | 7.914 | ppbv | 95 |

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
Data File : VL042141.D
Acq On : 14 Mar 2025 08:39
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 14 23:16:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 03/17/2025
Supervised By :Mahesh Dadoda 03/17/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.603 | 75 | 183303 | 8.295 | ppbv | | 98 |
| 47) 1,1,2-Trichloroethane | 6.581 | 97 | 154904 | 9.134 | ppbv | | 96 |
| 48) Dibromochloromethane | 7.387 | 129 | 239456 | 9.015 | ppbv | | 98 |
| 49) Bromoform | 9.484 | 173 | 213827 | 9.270 | ppbv | | 99 |
| 50) 4-Methyl-2-Pentanone | 5.755 | 43 | 408504 | 9.644 | ppbv | | 96 |
| 51) 2-Hexanone | 7.438 | 43 | 316988 | 10.872 | ppbv | # | 98 |
| 52) Tetrachloroethene | 8.225 | 164 | 129959 | 8.625 | ppbv | | 98 |
| 53) Toluene | 6.933 | 91 | 423735 | 8.614 | ppbv | | 98 |
| 54) 1,2-Dibromoethane | 7.652 | 107 | 201881 | 8.805 | ppbv | | 90 |
| 56) 1,1,1,2-Tetrachloroethane | 8.924 | 131 | 192287 | 9.492 | ppbv | | 100 |
| 57) Chlorobenzene | 8.921 | 112 | 344848 | 9.280 | ppbv | | 99 |
| 58) Ethyl Benzene | 9.354 | 91 | 572580 | 8.675 | ppbv | | 100 |
| 59) m/p-Xylene | 9.552 | 91 | 960961m | 18.294 | ppbv | | |
| 60) o-Xylene | 9.963 | 91 | 485048 | 9.185 | ppbv | | 99 |
| 61) Styrene | 9.872 | 104 | 211885 | 8.535 | ppbv | | 99 |
| 62) Isopropylbenzene | 10.539 | 105 | 718498 | 9.085 | ppbv | | 99 |
| 63) 1,1,2,2-Tetrachloroethane | 9.963 | 83 | 341487 | 9.820 | ppbv | | 100 |
| 64) n-propylbenzene | 10.989 | 120 | 196285 | 9.462 | ppbv | | 100 |
| 65) tert-Butylbenzene | 11.533 | 119 | 655886 | 9.113 | ppbv | | 98 |
| 66) Benzyl Chloride | 11.617 | 91 | 45818 | 8.342 | ppbv | | 97 |
| 67) sec-Butylbenzene | 11.769 | 105 | 924266 | 8.979 | ppbv | | 98 |
| 69) p-Isopropyltoluene | 11.928 | 119 | 753153 | 9.197 | ppbv | | 99 |
| 70) n-Butylbenzene | 12.280 | 91 | 771737 | 9.232 | ppbv | | 100 |
| 71) 2-Chlorotoluene | 10.902 | 91 | 537863 | 8.822 | ppbv | | 100 |
| 72) 4-Ethyltoluene | 11.125 | 105 | 585082 | 9.074 | ppbv | | 99 |
| 73) 1,3,5-Trimethylbenzene | 11.203 | 105 | 494157 | 8.836 | ppbv | | 98 |
| 74) 1,2,4-Trimethylbenzene | 11.536 | 105 | 560827 | 8.905 | ppbv | | 92 |
| 75) 1,3-Dichlorobenzene | 11.607 | 146 | 336601 | 9.287 | ppbv | | 98 |
| 76) 1,4-Dichlorobenzene | 11.672 | 146 | 327927 | 9.113 | ppbv | | 99 |
| 77) 1,2-Dichlorobenzene | 11.947 | 146 | 330229 | 9.389 | ppbv | | 99 |
| 78) Hexachloro-1,3-Butadiene | 13.883 | 225 | 230108 | 8.408 | ppbv | | 99 |
| 79) Naphthalene | 13.514 | 128 | 481899 | 11.160 | ppbv | | 100 |
| 80) Naphthalene,2-methyl- | 14.459 | 142 | 151227 | 12.797 | ppbv | | 99 |
| 81) 1,2,4-Trichlorobenzene | 13.439 | 180 | 219258 | 9.111 | ppbv | | 99 |

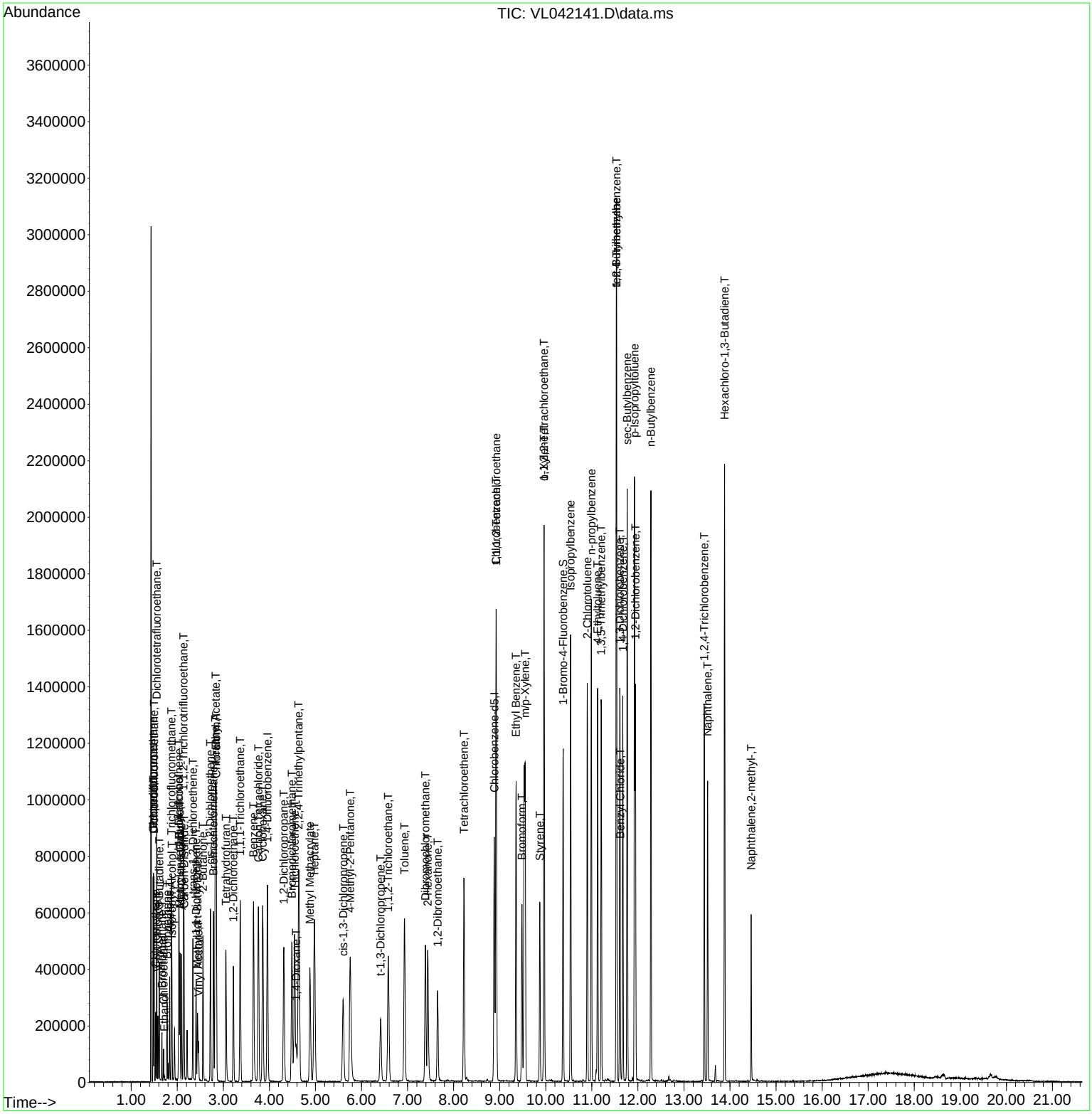
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
Data File : VL042141.D
Acq On : 14 Mar 2025 08:39
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 14 23:16:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 03/17/2025
Supervised By :Mahesh Dadoda 03/17/2025



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
Data File : VL042141.D
Acq On : 14 Mar 2025 08:39
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**LabSampleId :**
VSTDCCC010

Quant Time: Mar 14 23:16:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Bromochloromethane | 1.000 | 1.000 | 0.0 | 109 | -0.02 |
| 2 | T | Dichlorodifluoromethane | 1.040 | 1.091 | -4.9 | 126 | 0.00 |
| 3 | | Chlorodifluoromethane | 1.453 | 1.297 | 10.7 | 108 | 0.00 |
| 4 | | Chloromethane | 0.385 | 0.413 | -7.3 | 131 | 0.00 |
| 5 | T | Vinyl Chloride | 0.364 | 0.403 | -10.7 | 131 | 0.00 |
| 6 | T | Bromomethane | 0.173 | 0.195 | -12.7 | 133 | 0.00 |
| 7 | | Chloroethane | 0.148 | 0.156 | -5.4 | 126 | 0.00 |
| 8 | T | Dichlorotetrafluoroethane | 0.855 | 0.919 | -7.5 | 129 | 0.00 |
| 9 | T | Propene | 0.592 | 0.545 | 7.9 | 114 | 0.00 |
| 10 | T | Heptane | 1.844 | 1.534 | 16.8 | 101 | -0.03 |
| 11 | T | Trichlorofluoromethane | 1.042 | 1.153 | -10.7 | 133 | 0.00 |
| 12 | T | 1,1,2-Trichlorotrifluoroeth | 0.831 | 0.854 | -2.8 | 134 | 0.00 |
| 13 | | Ethanol | 0.038 | 0.034# | 10.5 | 187# | 0.00 |
| 14 | T | Bromoethene | 0.293 | 0.314 | -7.2 | 130 | 0.00 |
| 15 | T | Acetone | 0.883 | 0.898 | -1.7 | 137 | 0.00 |
| 16 | T | 1,3-Butadiene | 0.411 | 0.432 | -5.1 | 132 | 0.00 |
| 17 | | tert-Butyl alcohol | 1.105 | 1.009 | 8.7 | 116 | 0.00 |
| 18 | T | 1,1-Dichloroethene | 0.376 | 0.368 | 2.1 | 126 | 0.00 |
| 19 | T | Isopropyl Alcohol | 0.507 | 0.512 | -1.0 | 133 | 0.00 |
| 20 | T | Methylene Chloride | 0.334 | 0.366 | -9.6 | 153# | 0.00 |
| 21 | T | Allyl Chloride | 0.638 | 0.648 | -1.6 | 131 | 0.00 |
| 22 | T | trans-1,2-Dichloroethene | 0.438 | 0.457 | -4.3 | 140 | 0.00 |
| 23 | T | Vinyl Acetate | 0.621 | 0.537 | 13.5 | 113 | -0.01 |
| 24 | T | 1,1-Dichloroethane | 0.815 | 0.878 | -7.7 | 143 | 0.00 |
| 25 | T | Ethyl Acetate | 3.535 | 3.139 | 11.2 | 108 | -0.02 |
| 26 | T | Hexane | 1.429 | 1.277 | 10.6 | 109 | -0.02 |
| 27 | T | Carbon Disulfide | 0.969 | 1.058 | -9.2 | 135 | 0.00 |
| 28 | T | Methyl tert-Butyl Ether | 0.711 | 0.604 | 15.0 | 126 | -0.01 |
| 29 | T | Chloroform | 1.923 | 1.686 | 12.3 | 107 | -0.01 |
| 30 | T | Cyclohexane | 1.160 | 0.929 | 19.9 | 94 | -0.02 |
| 31 | T | cis-1,2-Dichloroethene | 1.353 | 1.097 | 18.9 | 97 | -0.01 |
| 32 | T | 1,1,1-Trichloroethane | 1.866 | 1.527 | 18.2 | 94 | -0.02 |
| 33 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 99 | -0.02 |
| 34 | T | 2-Butanone | 0.779 | 0.726 | 6.8 | 104 | -0.01 |
| 35 | T | Carbon Tetrachloride | 0.690 | 0.666 | 3.5 | 101 | -0.02 |
| 36 | T | Benzene | 1.047 | 0.951 | 9.2 | 98 | -0.02 |
| 37 | T | 1,2-Dichloroethane | 0.580 | 0.517 | 10.9 | 99 | -0.02 |
| 38 | T | Trichloroethene | 0.427 | 0.362 | 15.2 | 95 | -0.02 |
| 39 | T | 1,2-Dichloropropane | 0.397 | 0.359 | 9.6 | 100 | -0.02 |
| 40 | T | 1,4-Dioxane | 0.181 | 0.160 | 11.6 | 97 | -0.03 |
| 41 | T | Tetrahydrofuran | 0.460 | 0.415 | 9.8 | 99 | -0.02 |
| 42 | T | Bromodichloromethane | 0.782 | 0.732 | 6.4 | 99 | -0.03 |
| 43 | | Methyl Methacrylate | 0.409 | 0.346 | 15.4 | 88 | -0.03 |
| 44 | T | 2,2,4-Trimethylpentane | 1.848 | 1.708 | 7.6 | 102 | -0.03 |
| 45 | T | t-1,3-Dichloropropene | 0.406 | 0.321 | 20.9 | 81 | -0.03 |
| 46 | T | cis-1,3-Dichloropropene | 0.526 | 0.436 | 17.1 | 84 | -0.03 |
| 47 | T | 1,1,2-Trichloroethane | 0.403 | 0.368 | 8.7 | 102 | -0.03 |
| 48 | T | Dibromochloromethane | 0.632 | 0.570 | 9.8 | 95 | -0.03 |

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
Data File : VL042141.D
Acq On : 14 Mar 2025 08:39
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**LabSampleId :**
VSTDCCC010

Quant Time: Mar 14 23:16:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | Bromoform | 0.549 | 0.509 | 7.3 | 96 | -0.02 |
| 50 | T | 4-Methyl-2-Pentanone | 1.008 | 0.972 | 3.6 | 95 | -0.03 |
| 51 | T | 2-Hexanone | 0.693 | 0.754 | -8.8 | 90 | -0.03 |
| 52 | T | Tetrachloroethene | 0.358 | 0.309 | 13.7 | 94 | -0.02 |
| 53 | T | Toluene | 1.170 | 1.008 | 13.8 | 92 | -0.03 |
| 54 | T | 1,2-Dibromoethane | 0.545 | 0.480 | 11.9 | 95 | -0.03 |
| 55 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 96 | -0.02 |
| 56 | | 1,1,1,2-Tetrachloroethane | 0.565 | 0.536 | 5.1 | 102 | -0.02 |
| 57 | T | Chlorobenzene | 1.037 | 0.962 | 7.2 | 101 | -0.02 |
| 58 | T | Ethyl Benzene | 1.842 | 1.598 | 13.2 | 90 | -0.02 |
| 59 | T | m/p-Xylene | 1.466 | 1.341 | 8.5 | 97 | 0.00 |
| 60 | T | o-Xylene | 1.473 | 1.353 | 8.1 | 98 | -0.02 |
| 61 | T | Styrene | 0.693 | 0.591 | 14.7 | 86 | -0.02 |
| 62 | | Isopropylbenzene | 2.207 | 2.005 | 9.2 | 98 | -0.02 |
| 63 | T | 1,1,2,2-Tetrachloroethane | 0.970 | 0.953 | 1.8 | 108 | -0.02 |
| 64 | | n-propylbenzene | 0.579 | 0.548 | 5.4 | 100 | -0.02 |
| 65 | | tert-Butylbenzene | 2.008 | 1.830 | 8.9 | 101 | -0.01 |
| 66 | T | Benzyl Chloride | 0.153 | 0.128 | 16.3 | 80 | -0.01 |
| 67 | | sec-Butylbenzene | 2.872 | 2.579 | 10.2 | 100 | -0.01 |
| 68 | S | 1-Bromo-4-Fluorobenzene | 0.769 | 0.818 | -6.4 | 103 | -0.02 |
| 69 | | p-Isopropyltoluene | 2.285 | 2.101 | 8.1 | 100 | -0.01 |
| 70 | | n-Butylbenzene | 2.332 | 2.153 | 7.7 | 100 | -0.02 |
| 71 | | 2-Chlorotoluene | 1.701 | 1.501 | 11.8 | 95 | -0.02 |
| 72 | T | 4-Ethyltoluene | 1.799 | 1.632 | 9.3 | 96 | -0.02 |
| 73 | T | 1,3,5-Trimethylbenzene | 1.560 | 1.379 | 11.6 | 96 | -0.02 |
| 74 | T | 1,2,4-Trimethylbenzene | 1.757 | 1.565 | 10.9 | 102 | -0.02 |
| 75 | T | 1,3-Dichlorobenzene | 1.011 | 0.939 | 7.1 | 104 | -0.02 |
| 76 | T | 1,4-Dichlorobenzene | 1.004 | 0.915 | 8.9 | 102 | -0.01 |
| 77 | T | 1,2-Dichlorobenzene | 0.981 | 0.921 | 6.1 | 106 | -0.02 |
| 78 | T | Hexachloro-1,3-Butadiene | 0.764 | 0.642 | 16.0 | 97 | -0.01 |
| 79 | T | Naphthalene | 1.205 | 1.345 | -11.6 | 94 | -0.01 |
| 80 | T | Naphthalene,2-methyl- | 0.330 | 0.422 | -27.9 | 72 | -0.01 |
| 81 | T | 1,2,4-Trichlorobenzene | 0.671 | 0.612 | 8.8 | 91 | -0.02 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
Data File : VL042142.D
Acq On : 14 Mar 2025 09:23
Operator : SY/MD
Sample : VL0314ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0314ABL01

Quant Time: Mar 14 23:17:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

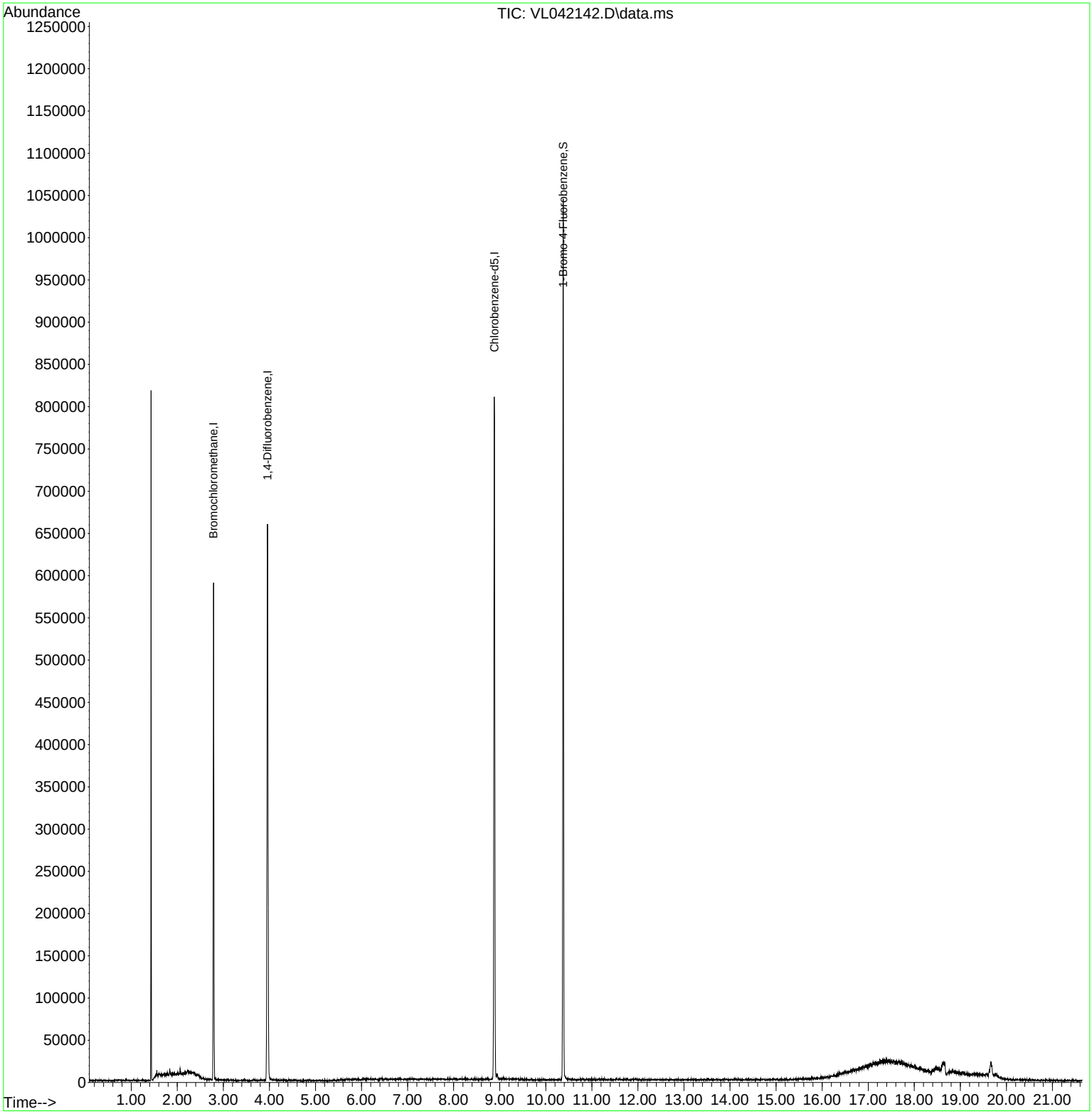
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.787 | 49 | 167826 | 10.000 | ppbv | -0.01 |
| 33) 1,4-Difluorobenzene | 3.958 | 114 | 392046 | 10.000 | ppbv | -0.02 |
| 55) Chlorobenzene-d5 | 8.881 | 117 | 329113 | 10.000 | ppbv | -0.02 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95 | 250856 | 9.907 | ppbv | -0.02 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 99.100% | | | |
| Target Compounds | | | | | | Qvalue |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
Data File : VL042142.D
Acq On : 14 Mar 2025 09:23
Operator : SY/MD
Sample : VL0314ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0314ABL01

Quant Time: Mar 14 23:17:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
Data File : VL042143.D
Acq On : 14 Mar 2025 10:09
Operator : SY/MD
Sample : QC031025 CAN 10267
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
QC031025 CAN 10267

Quant Time: Mar 14 23:17:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

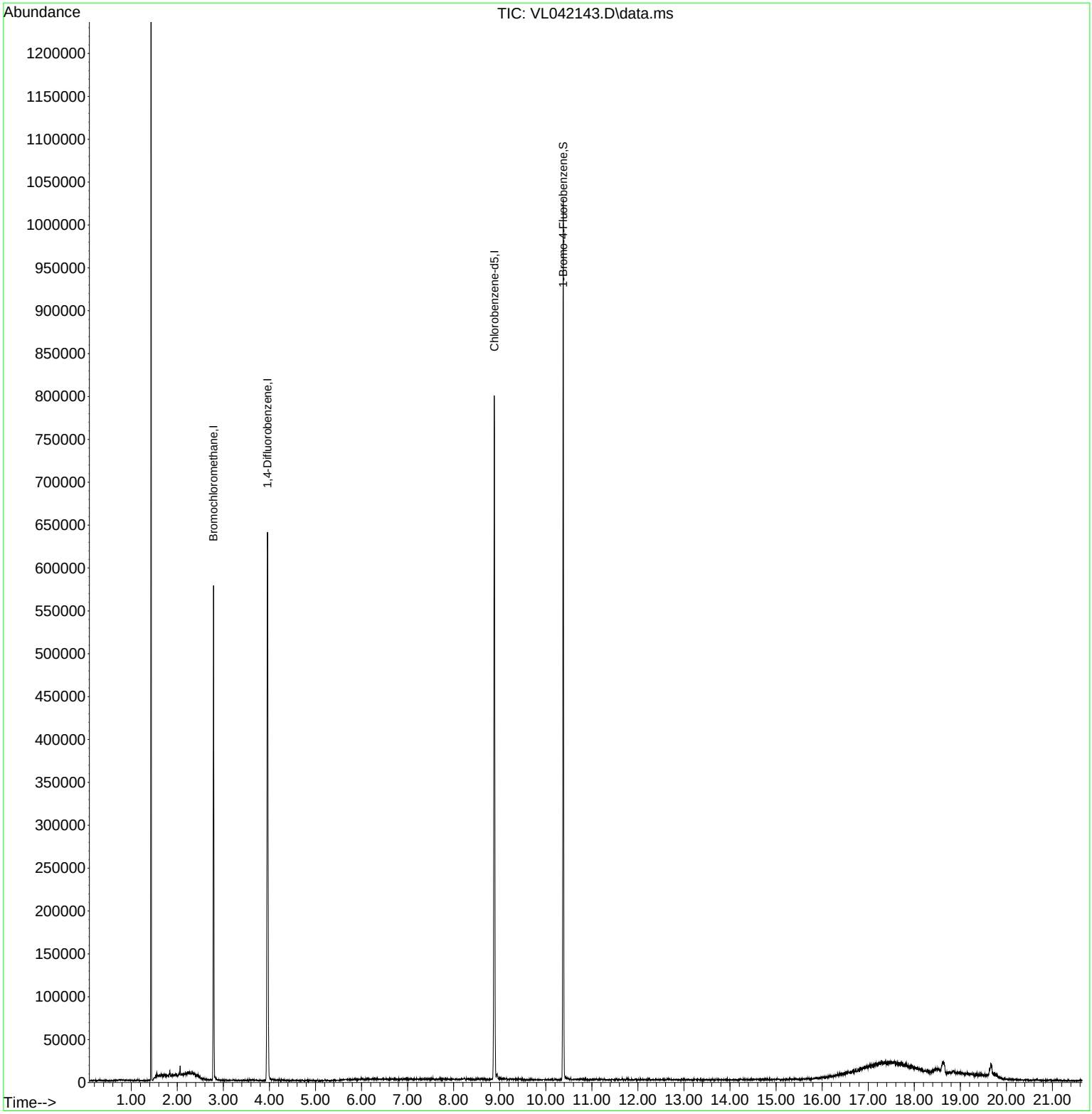
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.787 | 49 | 165110 | 10.000 | ppbv | -0.01 |
| 33) 1,4-Difluorobenzene | 3.958 | 114 | 377773 | 10.000 | ppbv | -0.02 |
| 55) Chlorobenzene-d5 | 8.881 | 117 | 315162 | 10.000 | ppbv | -0.02 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95 | 245153 | 10.111 | ppbv | -0.02 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 101.100% | | | |
| Target Compounds | | | | | | Qvalue |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
Data File : VL042143.D
Acq On : 14 Mar 2025 10:09
Operator : SY/MD
Sample : QC031025 CAN 10267
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
QC031025 CAN 10267

Quant Time: Mar 14 23:17:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
Data File : VL042145.D
Acq On : 14 Mar 2025 11:11
Operator : SY/MD
Sample : QC031325 CAN 10266
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
QC031325 CAN 10266

Quant Time: Mar 15 06:25:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

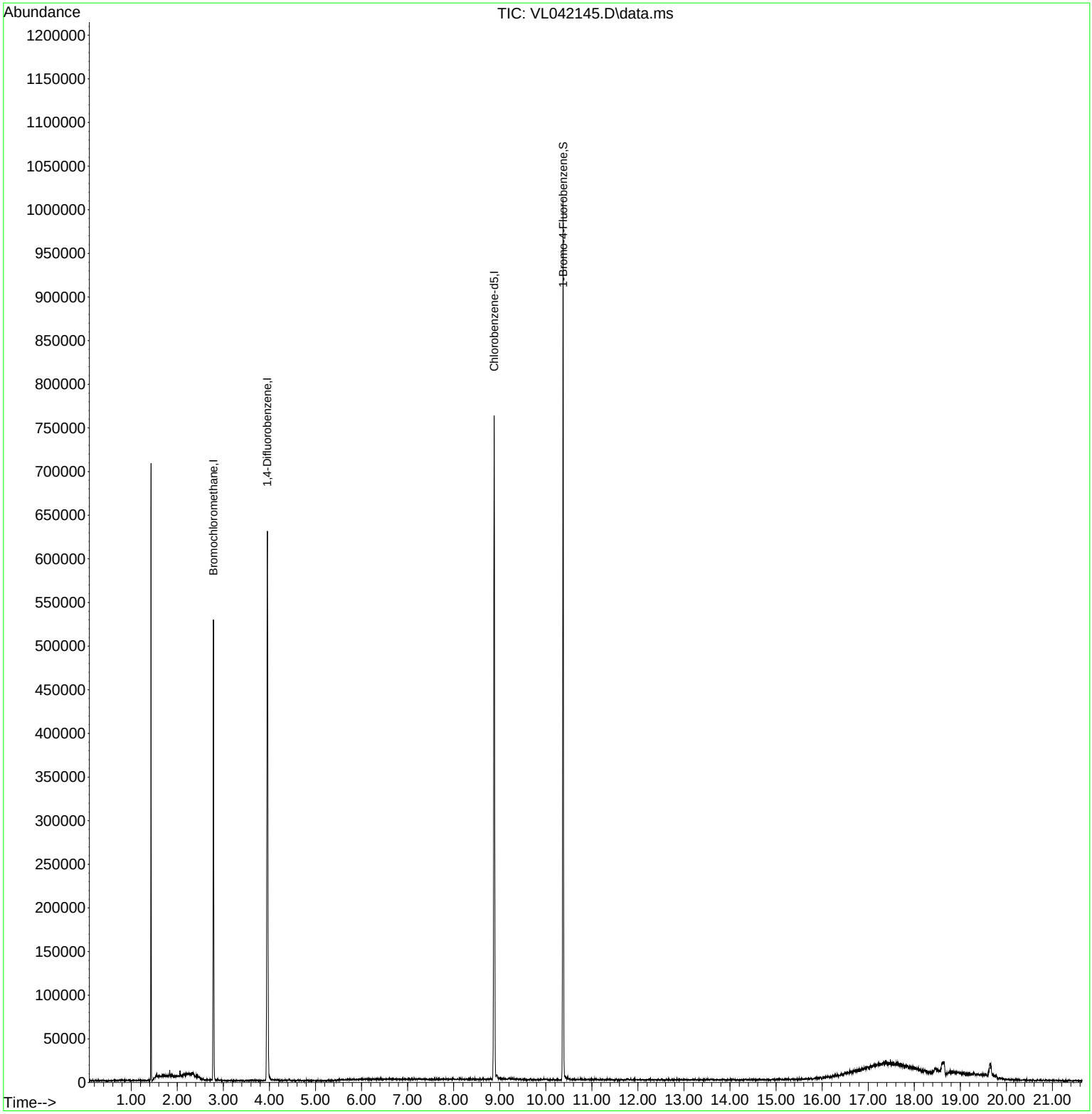
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.784 | 49 | 156307 | 10.000 | ppbv | -0.02 |
| 33) 1,4-Difluorobenzene | 3.955 | 114 | 350286 | 10.000 | ppbv | -0.02 |
| 55) Chlorobenzene-d5 | 8.878 | 117 | 303615 | 10.000 | ppbv | -0.02 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.374 | 95 | 230207 | 9.855 | ppbv | -0.02 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 98.600% | | | |
| Target Compounds | | | | | | Qvalue |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
Data File : VL042145.D
Acq On : 14 Mar 2025 11:11
Operator : SY/MD
Sample : QC031325 CAN 10266
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
QC031325 CAN 10266

Quant Time: Mar 15 06:25:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
Data File : VL042146.D
Acq On : 14 Mar 2025 12:27
Operator : SY/MD
Sample : VL0314ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 14 23:18:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0314ABS01

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 03/17/2025
Supervised By :Mahesh Dadoda 03/17/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.790 | 49 | 163026 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.959 | 114 | 381842 | 10.000 | ppbv | -0.02 |
| 55) Chlorobenzene-d5 | 8.885 | 117 | 325786 | 10.000 | ppbv | -0.02 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.380 | 95 | 276407 | 11.028 | ppbv | -0.01 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 110.300% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.499 | 85 | 183411 | 10.819 | ppbv | 99 |
| 3) Chlorodifluoromethane | 1.476 | 51 | 224569 | 9.478 | ppbv | 99 |
| 4) Chloromethane | 1.534 | 50 | 72105 | 11.502 | ppbv | 95 |
| 5) Vinyl Chloride | 1.580 | 62 | 69189 | 11.667 | ppbv | 98 |
| 6) Bromomethane | 1.667 | 94 | 31681 | 11.220 | ppbv | 96 |
| 7) Chloroethane | 1.706 | 64 | 27615 | 11.461 | ppbv | 92 |
| 8) Dichlorotetrafluoroethane | 1.554 | 85 | 159489 | 11.444 | ppbv | 99 |
| 9) Propene | 1.486 | 41 | 85053 | 8.811 | ppbv | 99 |
| 10) Heptane | 4.985 | 43 | 257569 | 8.570 | ppbv | 99 |
| 11) Trichlorofluoromethane | 1.877 | 101 | 201423 | 11.858 | ppbv | 99 |
| 12) 1,1,2-Trichlorotrifluo... | 2.140 | 101 | 144035 | 10.630 | ppbv | 97 |
| 13) Ethanol | 1.722 | 45 | 5622 | 9.175 | ppbv | 97 |
| 14) Bromoethene | 1.784 | 108 | 55222 | 11.541 | ppbv | 97 |
| 15) Acetone | 1.835 | 43 | 154842 | 10.755 | ppbv | 98 |
| 16) 1,3-Butadiene | 1.609 | 39 | 74468 | 11.115 | ppbv | 99 |
| 17) tert-Butyl alcohol | 2.042 | 59 | 168993 | 9.382 | ppbv | 96 |
| 18) 1,1-Dichloroethene | 2.036 | 96 | 64700 | 10.568 | ppbv | 97 |
| 19) Isopropyl Alcohol | 1.887 | 45 | 85819 | 10.377 | ppbv # | 35 |
| 20) Methylene Chloride | 2.062 | 84 | 64018 | 11.756 | ppbv | 96 |
| 21) Allyl Chloride | 2.098 | 41 | 110336 | 10.607 | ppbv | 97 |
| 22) trans-1,2-Dichloroethene | 2.340 | 96 | 72399 | 10.144 | ppbv | 99 |
| 23) Vinyl Acetate | 2.463 | 43 | 87289 | 8.623 | ppbv # | 94 |
| 24) 1,1-Dichloroethane | 2.411 | 63 | 140322 | 10.566 | ppbv | 99 |
| 25) Ethyl Acetate | 2.839 | 43 | 528086 | 9.164 | ppbv | 100 |
| 26) Hexane | 2.826 | 57 | 215050 | 9.231 | ppbv | 98 |
| 27) Carbon Disulfide | 2.153 | 76 | 170348 | 10.787 | ppbv | 100 |
| 28) Methyl tert-Butyl Ether | 2.444 | 73 | 91925 | 7.925 | ppbv | 98 |
| 29) Chloroform | 2.852 | 83 | 284422 | 9.071 | ppbv | 98 |
| 30) Cyclohexane | 3.861 | 84 | 155818 | 8.240 | ppbv | 94 |
| 31) cis-1,2-Dichloroethene | 2.722 | 61 | 180243 | 8.173 | ppbv | 99 |
| 32) 1,1,1-Trichloroethane | 3.369 | 97 | 256963 | 8.448 | ppbv | 95 |
| 34) 2-Butanone | 2.560 | 43 | 289331 | 9.726 | ppbv | 95 |
| 35) Carbon Tetrachloride | 3.764 | 117 | 267662 | 10.165 | ppbv | 97 |
| 36) Benzene | 3.661 | 78 | 376328 | 9.415 | ppbv | 99 |
| 37) 1,2-Dichloroethane | 3.221 | 62 | 209658 | 9.460 | ppbv | 99 |
| 38) Trichloroethene | 4.554 | 130 | 143571 | 8.796 | ppbv | 94 |
| 39) 1,2-Dichloropropane | 4.318 | 63 | 142402 | 9.386 | ppbv | 97 |
| 40) 1,4-Dioxane | 4.590 | 88 | 65583 | 9.469 | ppbv # | 98 |
| 41) Tetrahydrofuran | 3.059 | 42 | 161433 | 9.184 | ppbv | 97 |
| 42) Bromodichloromethane | 4.493 | 83 | 289116 | 9.682 | ppbv | 99 |
| 43) Methyl Methacrylate | 4.884 | 69 | 133935 | 8.580 | ppbv | 95 |
| 44) 2,2,4-Trimethylpentane | 4.645 | 57 | 687261 | 9.742 | ppbv | 98 |
| 45) t-1,3-Dichloropropene | 6.418 | 75 | 122213 | 7.880 | ppbv | 97 |

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
Data File : VL042146.D
Acq On : 14 Mar 2025 12:27
Operator : SY/MD
Sample : VL0314ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 14 23:18:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0314ABS01

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 03/17/2025
Supervised By :Mahesh Dadoda 03/17/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.606 | 75 | 173008 | 8.620 | ppbv | | 98 |
| 47) 1,1,2-Trichloroethane | 6.590 | 97 | 148902 | 9.667 | ppbv | | 96 |
| 48) Dibromochloromethane | 7.393 | 129 | 230834 | 9.569 | ppbv | | 98 |
| 49) Bromoform | 9.487 | 173 | 207997 | 9.928 | ppbv | | 98 |
| 50) 4-Methyl-2-Pentanone | 5.761 | 43 | 388572 | 10.100 | ppbv | | 95 |
| 51) 2-Hexanone | 7.444 | 43 | 302871 | 11.438 | ppbv | # | 97 |
| 52) Tetrachloroethene | 8.228 | 164 | 123920 | 9.056 | ppbv | | 98 |
| 53) Toluene | 6.940 | 91 | 392631 | 8.789 | ppbv | | 98 |
| 54) 1,2-Dibromoethane | 7.655 | 107 | 196312 | 9.427 | ppbv | | 97 |
| 56) 1,1,1,2-Tetrachloroethane | 8.930 | 131 | 188895 | 10.258 | ppbv | | 99 |
| 57) Chlorobenzene | 8.924 | 112 | 335300 | 9.927 | ppbv | | 98 |
| 58) Ethyl Benzene | 9.357 | 91 | 553145 | 9.220 | ppbv | | 99 |
| 59) m/p-Xylene | 9.555 | 91 | 938027m | 19.646 | ppbv | | |
| 60) o-Xylene | 9.966 | 91 | 472738 | 9.849 | ppbv | | 99 |
| 61) Styrene | 9.875 | 104 | 200572 | 8.888 | ppbv | | 99 |
| 62) Isopropylbenzene | 10.542 | 105 | 698706 | 9.720 | ppbv | | 98 |
| 63) 1,1,2,2-Tetrachloroethane | 9.966 | 83 | 335051 | 10.599 | ppbv | | 99 |
| 64) n-propylbenzene | 10.992 | 120 | 189167 | 10.032 | ppbv | | 99 |
| 65) tert-Butylbenzene | 11.536 | 119 | 645167 | 9.861 | ppbv | | 99 |
| 66) Benzyl Chloride | 11.620 | 91 | 46836 | 9.382 | ppbv | | 97 |
| 67) sec-Butylbenzene | 11.772 | 105 | 930077 | 9.940 | ppbv | | 99 |
| 69) p-Isopropyltoluene | 11.930 | 119 | 755360 | 10.147 | ppbv | | 99 |
| 70) n-Butylbenzene | 12.283 | 91 | 760425 | 10.007 | ppbv | | 100 |
| 71) 2-Chlorotoluene | 10.904 | 91 | 519669 | 9.378 | ppbv | | 99 |
| 72) 4-Ethyltoluene | 11.128 | 105 | 580446 | 9.904 | ppbv | | 99 |
| 73) 1,3,5-Trimethylbenzene | 11.209 | 105 | 489177 | 9.623 | ppbv | | 99 |
| 74) 1,2,4-Trimethylbenzene | 11.542 | 105 | 558174 | 9.751 | ppbv | | 94 |
| 75) 1,3-Dichlorobenzene | 11.610 | 146 | 329807 | 10.011 | ppbv | | 100 |
| 76) 1,4-Dichlorobenzene | 11.675 | 146 | 327949 | 10.026 | ppbv | | 100 |
| 77) 1,2-Dichlorobenzene | 11.950 | 146 | 329758 | 10.314 | ppbv | | 100 |
| 78) Hexachloro-1,3-Butadiene | 13.885 | 225 | 227664 | 9.152 | ppbv | | 99 |
| 79) Naphthalene | 13.516 | 128 | 477761 | 12.172 | ppbv | | 99 |
| 80) Naphthalene,2-methyl- | 14.461 | 142 | 148881 | 13.860 | ppbv | | 100 |
| 81) 1,2,4-Trichlorobenzene | 13.445 | 180 | 217204 | 9.930 | ppbv | | 100 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

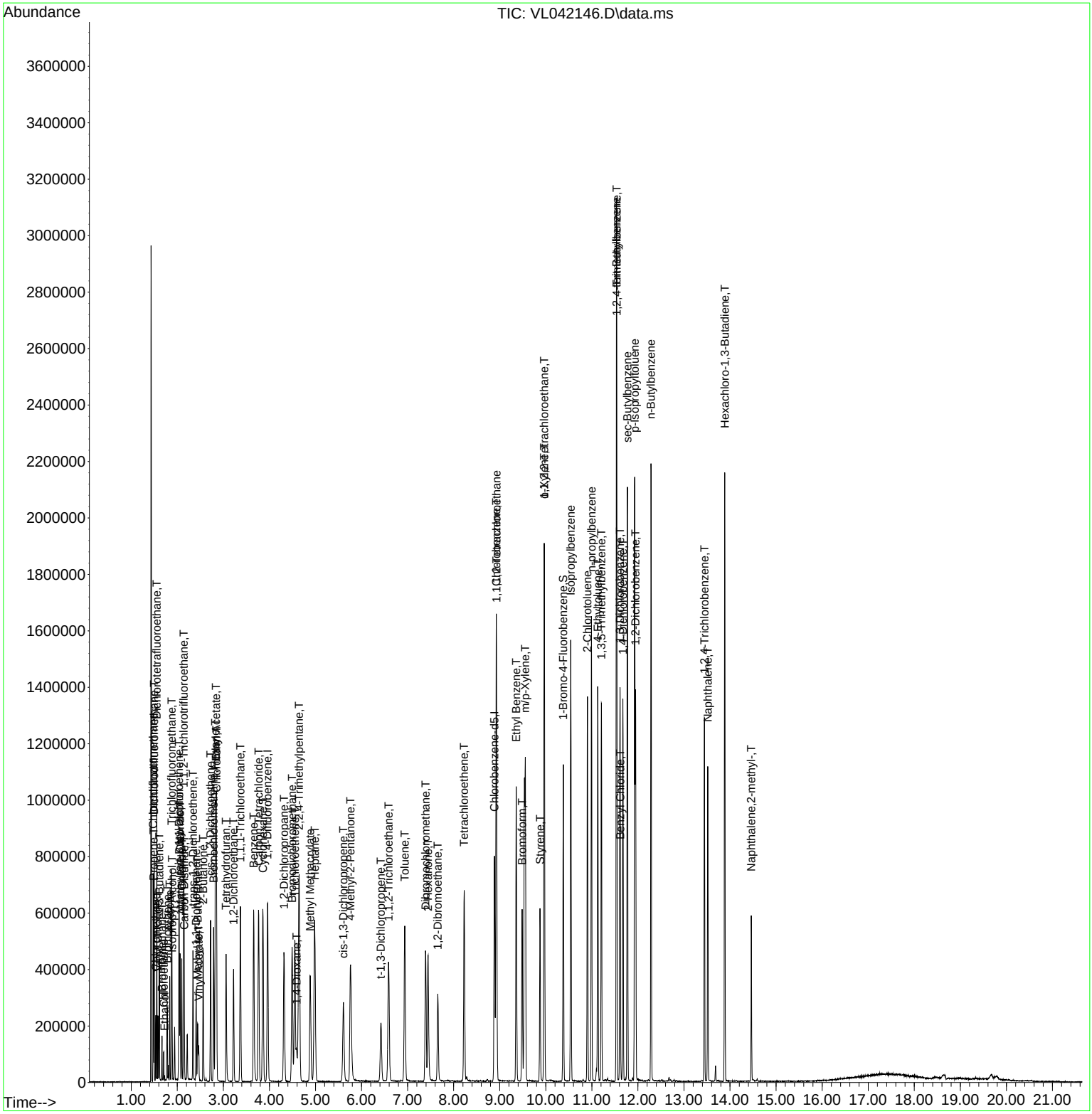
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
Data File : VL042146.D
Acq On : 14 Mar 2025 12:27
Operator : SY/MD
Sample : VL0314ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 14 23:18:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0314ABS01

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 03/17/2025
Supervised By :Mahesh Dadoda 03/17/2025



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

**Instrument ID: MSVOA_L**

## Daily Analysis Runlog For Sequence/QCBatch ID # VL011425

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 1/15/2025 12:59:33 PM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 1/15/2025 1:00:29 PM | | |
| SubDirectory | VL011425 | HP Acquire Method | TO15AIR.M | HP Processing Method | VL011425AIR.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | AP2569 |
| Initial Calibration Stds | AP2571,AP2572,AP2573 |
| CCC | AP2571 |
| Internal Standard/PEM | AP2569 |
| ICV/I.BLK | AP2574,MDL,AP2572,AP2573 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VL041887.D | 14 Jan 2025 07:50 | SY/MD | Ok |
| 2 | VSTDICC0.5 | VL041888.D | 14 Jan 2025 11:40 | SY/MD | Not Ok |
| 3 | VSTDICCC010 | VL041889.D | 14 Jan 2025 12:55 | SY/MD | Ok,M |
| 4 | VSTDICC002 | VL041890.D | 14 Jan 2025 13:28 | SY/MD | Ok,M |
| 5 | VSTDICC001 | VL041891.D | 14 Jan 2025 13:59 | SY/MD | Ok,M |
| 6 | VSTDICC0.5 | VL041892.D | 14 Jan 2025 14:30 | SY/MD | Ok,M |
| 7 | VSTDICC0.1 | VL041893.D | 14 Jan 2025 15:01 | SY/MD | Ok,M |
| 8 | VSTDICC0.03 | VL041894.D | 14 Jan 2025 15:32 | SY/MD | Ok,M |
| 9 | VSTDICC015 | VL041895.D | 14 Jan 2025 16:05 | SY/MD | Ok,M |
| 10 | VSTDICV010 | VL041896.D | 14 Jan 2025 17:33 | SY/MD | Ok,M |
| 11 | VL0114ABL01 | VL041897.D | 14 Jan 2025 18:34 | SY/MD | Ok |
| 12 | VL0114ABL02 | VL041898.D | 14 Jan 2025 19:05 | SY/MD | Ok |
| 13 | VL0114ABS01 | VL041899.D | 14 Jan 2025 19:36 | SY/MD | Ok,M |
| 14 | VIBLK | VL041900.D | 14 Jan 2025 20:07 | SY/MD | Ok |
| 15 | Q1073-04 | VL041901.D | 14 Jan 2025 20:40 | SY/MD | Ok,M |
| 16 | Q1073-04DUP | VL041902.D | 14 Jan 2025 21:14 | SY/MD | Ok,M |
| 17 | Q1073-05 | VL041903.D | 14 Jan 2025 21:47 | SY/MD | Ok,M |
| 18 | Q1073-06 | VL041904.D | 14 Jan 2025 22:21 | SY/MD | Ok,M |
| 19 | Q1073-01 | VL041905.D | 14 Jan 2025 22:51 | SY/MD | Ok,M |
| 20 | Q1073-02 | VL041906.D | 14 Jan 2025 23:22 | SY/MD | Ok,M |
| 21 | Q1073-03 | VL041907.D | 14 Jan 2025 23:52 | SY/MD | Ok,M |

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Fax : 908 789 8922

**Instrument ID: MSVOA_L**

## Daily Analysis Runlog For Sequence/QCBatch ID # VL011425

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 1/15/2025 12:59:33 PM | | | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 1/15/2025 1:00:29 PM | | | | |
| SubDirectory | VL011425 | HP Acquire Method | TO15AIR.M | HP Processing Method | VL011425AIR.M | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | AP2569 |
| Initial Calibration Stds | AP2571,AP2572,AP2573 |
| CCC | AP2571 |
| Internal Standard/PEM | AP2569 |
| ICV/I.BLK | AP2574,MDL,AP2572,AP2573 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | VIBLK | VL041908.D | 15 Jan 2025 00:22 | SY/MD | Ok |
| 23 | MDL 0.4 | VL041909.D | 15 Jan 2025 00:52 | SY/MD | Ok,M |
| 24 | MDL 0.4 | VL041910.D | 15 Jan 2025 01:23 | SY/MD | Ok,M |
| 25 | MDL 0.1 | VL041911.D | 15 Jan 2025 01:53 | SY/MD | Ok,M |
| 26 | MDL 0.1 | VL041912.D | 15 Jan 2025 02:23 | SY/MD | Ok,M |
| 27 | MDL 0.03 | VL041913.D | 15 Jan 2025 02:53 | SY/MD | Ok,M |
| 28 | MDL 0.03 | VL041914.D | 15 Jan 2025 03:23 | SY/MD | Ok,M |
| 29 | VSTDCCC010 | VL041915.D | 15 Jan 2025 08:37 | SY/MD | Not Ok |

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

**Instrument ID: MSVOA_L**

## Daily Analysis Runlog For Sequence/QCBatch ID # VL012725

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Semsettin Yesilyurt | Review On | 1/30/2025 10:54:41 AM | | | | |
| Supervise By | Mahesh Dadoda | Supervise On | 1/30/2025 11:53:52 AM | | | | |
| SubDirectory | VL012725 | HP Acquire Method | TO15AIR.M | | HP Processing Method | VL011425AIR.M | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | AP2569 |
| Initial Calibration Stds | AP2571,AP2572,AP2573 |
| CCC | AP2571 |
| Internal Standard/PEM | AP2569 |
| ICV/I.BLK | AP2574 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VL041943.D | 27 Jan 2025 09:02 | SY/MD | Ok |
| 2 | VSTDCCC010 | VL041944.D | 27 Jan 2025 10:05 | SY/MD | Ok,M |
| 3 | VL0127ABL01 | VL041945.D | 27 Jan 2025 10:47 | SY/MD | Ok |
| 4 | VL0127ABL02 | VL041946.D | 27 Jan 2025 11:17 | SY/MD | Ok |
| 5 | VL0127ABS01 | VL041947.D | 27 Jan 2025 12:19 | SY/MD | Ok,M |
| 6 | Q1168-14 0.5 | VL041948.D | 27 Jan 2025 13:05 | SY/MD | Ok,M |
| 7 | Q1168-13 0.45 | VL041949.D | 27 Jan 2025 13:36 | SY/MD | Ok,M |
| 8 | Q1168-13 0.40 | VL041950.D | 27 Jan 2025 14:06 | SY/MD | Ok,M |
| 9 | Q1168-13 0.1 | VL041951.D | 27 Jan 2025 14:37 | SY/MD | Ok,M |
| 10 | Q1168-13 0.03 | VL041952.D | 27 Jan 2025 15:09 | SY/MD | Not Ok |
| 11 | Q1168-14 0.03 | VL041953.D | 27 Jan 2025 15:40 | SY/MD | Not Ok |
| 12 | QC012125 CAN 10268 | VL041954.D | 27 Jan 2025 16:11 | SY/MD | Ok |
| 13 | QC012125 CAN 10268 | VL041955.D | 27 Jan 2025 16:42 | SY/MD | Not Ok |
| 14 | VSTDCCC010 | VL041956.D | 27 Jan 2025 17:13 | SY/MD | Ok,M |

M : Manual Integration

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**Instrument ID: MSVOA_L**

## Daily Analysis Runlog For Sequence/QCBatch ID # VL020325

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Semsettin Yesilyurt | Review On | 2/4/2025 9:24:56 AM | | | | |
| Supervise By | Mahesh Dadoda | Supervise On | 2/4/2025 3:44:53 PM | | | | |
| SubDirectory | VL020325 | HP Acquire Method | TO15AIR.M | HP Processing Method | VL011425AIR.M | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | AP2569 |
| Initial Calibration Stds | AP2571,AP2572,AP2573 |
| CCC | AP2571 |
| Internal Standard/PEM | AP2569 |
| ICV/I.BLK | AP2574 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VL041957.D | 03 Feb 2025 09:47 | SY/MD | Ok |
| 2 | VSTDCCC010 | VL041958.D | 03 Feb 2025 10:48 | SY/MD | Ok,M |
| 3 | VL0203ABL01 | VL041959.D | 03 Feb 2025 11:34 | SY/MD | Ok |
| 4 | VL0203ABL02 | VL041960.D | 03 Feb 2025 12:05 | SY/MD | Ok |
| 5 | VL0203ABS01 | VL041961.D | 03 Feb 2025 12:57 | SY/MD | Ok,M |
| 6 | Q1222-01 | VL041962.D | 03 Feb 2025 13:57 | SY/MD | Ok,M |
| 7 | Q1222-01DL | VL041963.D | 03 Feb 2025 14:28 | SY/MD | Not Ok |
| 8 | Q1256-01 | VL041964.D | 03 Feb 2025 14:59 | SY/MD | Ok,M |
| 9 | Q1256-01DL | VL041965.D | 03 Feb 2025 15:30 | SY/MD | Not Ok |
| 10 | QC012825 CAN 10439 | VL041966.D | 03 Feb 2025 16:02 | SY/MD | Ok |
| 11 | Q1222-02 | VL041967.D | 03 Feb 2025 16:35 | SY/MD | Ok,M |
| 12 | Q1222-02DUP | VL041968.D | 03 Feb 2025 17:08 | SY/MD | Ok,M |
| 13 | Q1222-03 | VL041969.D | 03 Feb 2025 17:41 | SY/MD | Ok,M |
| 14 | Q1256-02 | VL041970.D | 03 Feb 2025 18:15 | SY/MD | Ok,M |
| 15 | Q1168-14 0.03 | VL041971.D | 03 Feb 2025 21:01 | SY/MD | Not Ok |
| 16 | Q1168-13 0.03 | VL041972.D | 03 Feb 2025 21:32 | SY/MD | Ok,M |
| 17 | Q1168-14 0.03 | VL041973.D | 03 Feb 2025 22:13 | SY/MD | Ok,M |
| 18 | QC020325 CAN 10599 | VL041974.D | 04 Feb 2025 08:03 | SY/MD | Ok |
| 19 | VSTDCCC010 | VL041975.D | 04 Feb 2025 08:34 | SY/MD | Ok,M |

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

**Instrument ID: MSVOA_L**

## Daily Analysis Runlog For Sequence/QCBatch ID # VL022525

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Semsettin Yesilyurt | Review On | 2/26/2025 8:27:25 AM | | | | |
| Supervise By | Mahesh Dadoda | Supervise On | 2/26/2025 1:45:21 PM | | | | |
| SubDirectory | VL022525 | HP Acquire Method | TO15AIR.M | HP Processing Method | VL022525AIR.M | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | AP2576 |
| Initial Calibration Stds | AP2582,AP2584,AP2585 |
| CCC | AP2582 |
| Internal Standard/PEM | AP2576 |
| ICV/I.BLK | AP2586 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VL042040.D | 25 Feb 2025 07:56 | SY/MD | Ok |
| 2 | VSTDICC010 | VL042041.D | 25 Feb 2025 08:56 | SY/MD | Ok,M |
| 3 | VSTDICC002 | VL042042.D | 25 Feb 2025 09:29 | SY/MD | Ok,M |
| 4 | VSTDICC001 | VL042043.D | 25 Feb 2025 10:00 | SY/MD | Ok,M |
| 5 | VSTDICC0.5 | VL042044.D | 25 Feb 2025 10:31 | SY/MD | Ok,M |
| 6 | VSTDICC0.1 | VL042045.D | 25 Feb 2025 11:03 | SY/MD | Ok,M |
| 7 | VSTDICC0.03 | VL042046.D | 25 Feb 2025 11:34 | SY/MD | Ok,M |
| 8 | VSTDICC015 | VL042047.D | 25 Feb 2025 12:07 | SY/MD | Ok,M |
| 9 | VSTDICV010 | VL042048.D | 25 Feb 2025 13:15 | SY/MD | Ok,M |

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

**Instrument ID: MSVOA_L**

## Daily Analysis Runlog For Sequence/QCBatch ID # VL022625

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Semsettin Yesilyurt | Review On | 2/27/2025 10:12:04 AM | | | | |
| Supervise By | Mahesh Dadoda | Supervise On | 2/27/2025 12:13:24 PM | | | | |
| SubDirectory | VL022625 | HP Acquire Method | TO15AIR.M | | HP Processing Method | VL022525AIR.M | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | AP2576 |
| Initial Calibration Stds | AP2582,AP2584,AP2585 |
| CCC | AP2582 |
| Internal Standard/PEM | AP2576 |
| ICV/I.BLK | AP2586 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VL042049.D | 26 Feb 2025 07:46 | SY/MD | Ok |
| 2 | VSTDCCC010 | VL042050.D | 26 Feb 2025 08:38 | SY/MD | Ok,M |
| 3 | VL0226ABL01 | VL042051.D | 26 Feb 2025 09:20 | SY/MD | Ok |
| 4 | QC021725 CAN 10271 | VL042052.D | 26 Feb 2025 10:04 | SY/MD | Ok |
| 5 | QC022525 CAN 10795 | VL042053.D | 26 Feb 2025 10:36 | SY/MD | Ok |
| 6 | VL0226ABS01 | VL042054.D | 26 Feb 2025 11:07 | SY/MD | Ok,M |
| 7 | Q1419-02 | VL042055.D | 26 Feb 2025 11:40 | SY/MD | Ok,M |
| 8 | Q1430-05 | VL042056.D | 26 Feb 2025 12:14 | SY/MD | Ok,M |
| 9 | Q1430-05DUP | VL042057.D | 26 Feb 2025 12:48 | SY/MD | Ok,M |
| 10 | Q1430-06 | VL042058.D | 26 Feb 2025 13:21 | SY/MD | Ok,M |
| 11 | Q1430-06DL | VL042059.D | 26 Feb 2025 13:52 | SY/MD | Not Ok |
| 12 | Q1419-01 | VL042060.D | 26 Feb 2025 14:24 | SY/MD | Dilution |
| 13 | Q1419-01DL | VL042061.D | 26 Feb 2025 14:55 | SY/MD | Not Ok |
| 14 | Q1419-01DL | VL042062.D | 26 Feb 2025 15:27 | SY/MD | Ok,M |
| 15 | Q1419-01DL2 | VL042063.D | 26 Feb 2025 15:58 | SY/MD | Not Ok |
| 16 | VSTDCCC010 | VL042064.D | 26 Feb 2025 16:29 | SY/MD | Ok,M |

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

**Instrument ID: MSVOA_L**

## Daily Analysis Runlog For Sequence/QCBatch ID # VL030325

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Semsettin Yesilyurt | Review On | 3/4/2025 4:05:35 PM | | | | |
| Supervise By | Mahesh Dadoda | Supervise On | 3/5/2025 12:17:04 PM | | | | |
| SubDirectory | VL030325 | HP Acquire Method | TO15AIR.M | | HP Processing Method | VL022525AIR.M | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | AP2587 |
| Initial Calibration Stds | AP2582,AP2584,AP2585 |
| CCC | AP2582 |
| Internal Standard/PEM | AP2587 |
| ICV/I.BLK | AP2586 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VL042074.D | 03 Mar 2025 11:45 | SY/MD | Ok |
| 2 | VSTDCCC010 | VL042075.D | 03 Mar 2025 12:15 | SY/MD | Ok,M |
| 3 | VL0303ABL01 | VL042076.D | 03 Mar 2025 14:49 | SY/MD | Ok |
| 4 | VL0303ABS01 | VL042077.D | 03 Mar 2025 15:19 | SY/MD | Ok,M |
| 5 | QC022725 CAN 10331 | VL042078.D | 03 Mar 2025 15:52 | SY/MD | Ok |
| 6 | Q1430-03 | VL042079.D | 03 Mar 2025 16:23 | SY/MD | Ok,M |
| 7 | Q1430-03DL | VL042080.D | 03 Mar 2025 16:53 | SY/MD | Not Ok |
| 8 | Q1430-02 | VL042081.D | 03 Mar 2025 17:24 | SY/MD | Ok,M |
| 9 | Q1430-02DL | VL042082.D | 03 Mar 2025 17:55 | SY/MD | Not Ok |
| 10 | Q1430-04 | VL042083.D | 03 Mar 2025 18:26 | SY/MD | Ok,M |
| 11 | Q1430-04DL | VL042084.D | 03 Mar 2025 18:57 | SY/MD | Not Ok |
| 12 | Q1430-01 | VL042085.D | 03 Mar 2025 19:28 | SY/MD | Ok,M |
| 13 | Q1430-01DL | VL042086.D | 03 Mar 2025 19:59 | SY/MD | Not Ok |
| 14 | Q1430-01DUP | VL042087.D | 03 Mar 2025 20:29 | SY/MD | Ok,M |
| 15 | VIBLK | VL042088.D | 03 Mar 2025 21:00 | SY/MD | Ok |
| 16 | QC022625 CAN 10682 | VL042089.D | 03 Mar 2025 21:31 | SY/MD | Not Ok |
| 17 | QC022625 CAN 10746 | VL042090.D | 03 Mar 2025 22:02 | SY/MD | Ok |
| 18 | VL0303ABS02 | VL042091.D | 03 Mar 2025 22:33 | SY/MD | Not Ok |
| 19 | QC022625 CAN 10682 | VL042092.D | 04 Mar 2025 08:07 | SY/MD | Ok |
| 20 | VSTDCCC010 | VL042093.D | 04 Mar 2025 09:04 | SY/MD | Ok,M |

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

**Instrument ID: MSVOA_L**

## Daily Analysis Runlog For Sequence/QCBatch ID # VL031425

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Semsettin Yesilyurt | Review On | 3/17/2025 8:36:35 AM | | | | |
| Supervise By | Mahesh Dadoda | Supervise On | 3/17/2025 1:46:41 PM | | | | |
| SubDirectory | VL031425 | HP Acquire Method | TO15AIR.M | HP Processing Method | VL022525AIR.M | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | AP2588 |
| Initial Calibration Stds | AP2582,AP2584,AP2585 |
| CCC | AP2582 |
| Internal Standard/PEM | AP2588 |
| ICV/I.BLK | AP2586 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VL042140.D | 14 Mar 2025 07:56 | SY/MD | Ok |
| 2 | VSTDCCC010 | VL042141.D | 14 Mar 2025 08:39 | SY/MD | Ok,M |
| 3 | VL0314ABL01 | VL042142.D | 14 Mar 2025 09:23 | SY/MD | Ok |
| 4 | QC031025 CAN 10267 | VL042143.D | 14 Mar 2025 10:09 | SY/MD | Ok |
| 5 | QC031225 CAN 10300 | VL042144.D | 14 Mar 2025 10:40 | SY/MD | Not Ok |
| 6 | QC031325 CAN 10266 | VL042145.D | 14 Mar 2025 11:11 | SY/MD | Ok |
| 7 | VL0314ABS01 | VL042146.D | 14 Mar 2025 12:27 | SY/MD | Ok,M |
| 8 | QC031225 CAN 10300 | VL042147.D | 14 Mar 2025 15:56 | SY/MD | Ok |
| 9 | QC031225 CAN 10300 | VL042148.D | 14 Mar 2025 16:29 | SY/MD | Not Ok |

M : Manual Integration

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042172.D
Acq On : 27 Mar 2025 08:26
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Quant Time: Mar 28 01:31:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.784 | 49 | 187002 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.952 | 114 | 545068 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.875 | 117 | 519536 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.371 | 95 | 422410 | 9.901 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 99.000% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.496 | 85 | 262496 | 9.507 | ppbv | 100 |
| 3) Chlorodifluoromethane | 1.473 | 51 | 272522 | 9.662 | ppbv | 100 |
| 4) Chloromethane | 1.531 | 50 | 107099 | 9.491 | ppbv | 100 |
| 5) Vinyl Chloride | 1.577 | 62 | 102699 | 8.925 | ppbv | 100 |
| 6) Bromomethane | 1.664 | 94 | 47950 | 9.377 | ppbv | 100 |
| 7) Chloroethane | 1.703 | 64 | 42516 | 9.387 | ppbv | 100 |
| 8) Dichlorotetrafluoroethane | 1.551 | 85 | 227041 | 9.656 | ppbv | 100 |
| 9) Propene | 1.483 | 41 | 123386 | 9.709 | ppbv | 100 |
| 10) Heptane | 4.972 | 43 | 335086 | 9.744 | ppbv | 100 |
| 11) Trichlorofluoromethane | 1.874 | 101 | 250349 | 9.318 | ppbv | 100 |
| 12) 1,1,2-Trichlorotrifluo... | 2.137 | 101 | 209365 | 9.481 | ppbv | 100 |
| 13) Ethanol | 1.719 | 45 | 5338 | 5.364 | ppbv | 100 |
| 14) Bromoethene | 1.777 | 108 | 77999 | 9.220 | ppbv | 100 |
| 15) Acetone | 1.832 | 43 | 208061 | 7.955 | ppbv | 100 |
| 16) 1,3-Butadiene | 1.606 | 39 | 107104 | 9.105 | ppbv | 100 |
| 17) tert-Butyl alcohol | 2.036 | 59 | 302616 | 9.290 | ppbv | 100 |
| 18) 1,1-Dichloroethene | 2.030 | 96 | 94236 | 9.128 | ppbv | 100 |
| 19) Isopropyl Alcohol | 1.884 | 45 | 131359 | 8.902 | ppbv | 100 |
| 20) Methylene Chloride | 2.059 | 84 | 81828 | 8.401 | ppbv | 100 |
| 21) Allyl Chloride | 2.091 | 41 | 168602 | 9.141 | ppbv | 100 |
| 22) trans-1,2-Dichloroethene | 2.337 | 96 | 110371 | 9.149 | ppbv | 100 |
| 23) Vinyl Acetate | 2.460 | 43 | 93080 | 8.563 | ppbv | 100 |
| 24) 1,1-Dichloroethane | 2.405 | 63 | 209753 | 9.484 | ppbv | 100 |
| 25) Ethyl Acetate | 2.833 | 43 | 646501 | 9.524 | ppbv | 100 |
| 26) Hexane | 2.823 | 57 | 249331 | 9.510 | ppbv | 100 |
| 27) Carbon Disulfide | 2.146 | 76 | 268507 | 9.550 | ppbv | 100 |
| 28) Methyl tert-Butyl Ether | 2.438 | 73 | 155398 | 9.520 | ppbv | 100 |
| 29) Chloroform | 2.845 | 83 | 361264 | 9.415 | ppbv | 100 |
| 30) Cyclohexane | 3.852 | 84 | 217215 | 9.537 | ppbv | 100 |
| 31) cis-1,2-Dichloroethene | 2.716 | 61 | 256425 | 9.634 | ppbv | 100 |
| 32) 1,1,1-Trichloroethane | 3.363 | 97 | 385628 | 8.784 | ppbv | 100 |
| 34) 2-Butanone | 2.554 | 43 | 363735 | 9.203 | ppbv | 100 |
| 35) Carbon Tetrachloride | 3.758 | 117 | 382925 | 9.129 | ppbv | 100 |
| 36) Benzene | 3.651 | 78 | 508860 | 9.417 | ppbv | 100 |
| 37) 1,2-Dichloroethane | 3.214 | 62 | 292937 | 9.469 | ppbv | 100 |
| 38) Trichloroethene | 4.545 | 130 | 204027 | 9.045 | ppbv | 100 |
| 39) 1,2-Dichloropropane | 4.312 | 63 | 183439 | 9.321 | ppbv | 100 |
| 40) 1,4-Dioxane | 4.577 | 88 | 92327 | 9.042 | ppbv # | 100 |
| 41) Tetrahydrofuran | 3.049 | 42 | 216851 | 9.643 | ppbv | 100 |
| 42) Bromodichloromethane | 4.483 | 83 | 418887 | 9.822 | ppbv | 100 |
| 43) Methyl Methacrylate | 4.872 | 69 | 219399 | 9.618 | ppbv | 100 |
| 44) 2,2,4-Trimethylpentane | 4.635 | 57 | 876649 | 9.600 | ppbv | 100 |
| 45) t-1,3-Dichloropropene | 6.406 | 75 | 239180 | 9.746 | ppbv | 100 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042172.D
Acq On : 27 Mar 2025 08:26
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Quant Time: Mar 28 01:31:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.593 | 75 | 300021 | 9.973 | ppbv | | 100 |
| 47) 1,1,2-Trichloroethane | 6.574 | 97 | 198176 | 9.526 | ppbv | | 100 |
| 48) Dibromochloromethane | 7.380 | 129 | 346499 | 9.828 | ppbv | | 100 |
| 49) Bromoform | 9.477 | 173 | 317189 | 10.021 | ppbv | | 100 |
| 50) 4-Methyl-2-Pentanone | 5.745 | 43 | 559800 | 8.934 | ppbv | | 100 |
| 51) 2-Hexanone | 7.432 | 43 | 460013 | 8.848 | ppbv | # | 100 |
| 52) Tetrachloroethene | 8.218 | 164 | 186912 | 8.722 | ppbv | | 100 |
| 53) Toluene | 6.927 | 91 | 613378 | 9.576 | ppbv | | 100 |
| 54) 1,2-Dibromoethane | 7.649 | 107 | 276797 | 9.536 | ppbv | | 100 |
| 56) 1,1,1,2-Tetrachloroethane | 8.917 | 131 | 265037 | 9.268 | ppbv | | 100 |
| 57) Chlorobenzene | 8.917 | 112 | 454511 | 9.223 | ppbv | | 100 |
| 58) Ethyl Benzene | 9.351 | 91 | 868003 | 9.406 | ppbv | | 100 |
| 59) m/p-Xylene | 9.549 | 91 | 595445 | 8.071 | ppbv | # | 9 |
| 60) o-Xylene | 9.960 | 91 | 689933 | 9.340 | ppbv | | 100 |
| 61) Styrene | 9.866 | 104 | 354697 | 9.706 | ppbv | | 100 |
| 62) Isopropylbenzene | 10.536 | 105 | 1019255 | 9.227 | ppbv | | 100 |
| 63) 1,1,2,2-Tetrachloroethane | 9.960 | 83 | 413392 | 9.210 | ppbv | | 100 |
| 64) n-propylbenzene | 10.986 | 120 | 259405 | 9.122 | ppbv | | 100 |
| 65) tert-Butylbenzene | 11.529 | 119 | 901951 | 8.828 | ppbv | | 100 |
| 66) Benzyl Chloride | 11.610 | 91 | 105411 | 9.724 | ppbv | | 100 |
| 67) sec-Butylbenzene | 11.766 | 105 | 1249106 | 8.796 | ppbv | | 100 |
| 69) p-Isopropyltoluene | 11.924 | 119 | 1079675 | 8.830 | ppbv | | 100 |
| 70) n-Butylbenzene | 12.277 | 91 | 1110351 | 8.879 | ppbv | | 100 |
| 71) 2-Chlorotoluene | 10.898 | 91 | 799102 | 9.320 | ppbv | | 100 |
| 72) 4-Ethyltoluene | 11.122 | 105 | 846232 | 9.200 | ppbv | | 100 |
| 73) 1,3,5-Trimethylbenzene | 11.199 | 105 | 720566 | 8.970 | ppbv | | 100 |
| 74) 1,2,4-Trimethylbenzene | 11.536 | 105 | 784745 | 8.480 | ppbv | | 100 |
| 75) 1,3-Dichlorobenzene | 11.604 | 146 | 458226 | 9.028 | ppbv | | 100 |
| 76) 1,4-Dichlorobenzene | 11.669 | 146 | 461371 | 9.134 | ppbv | | 100 |
| 77) 1,2-Dichlorobenzene | 11.944 | 146 | 441473 | 8.933 | ppbv | | 100 |
| 78) Hexachloro-1,3-Butadiene | 13.879 | 225 | 416735 | 8.284 | ppbv | | 100 |
| 79) Naphthalene | 13.510 | 128 | 938470 | 9.271 | ppbv | | 100 |
| 80) Naphthalene,2-methyl- | 14.455 | 142 | 514394 | 10.436 | ppbv | | 100 |
| 81) 1,2,4-Trichlorobenzene | 13.439 | 180 | 446420 | 9.561 | ppbv | | 100 |

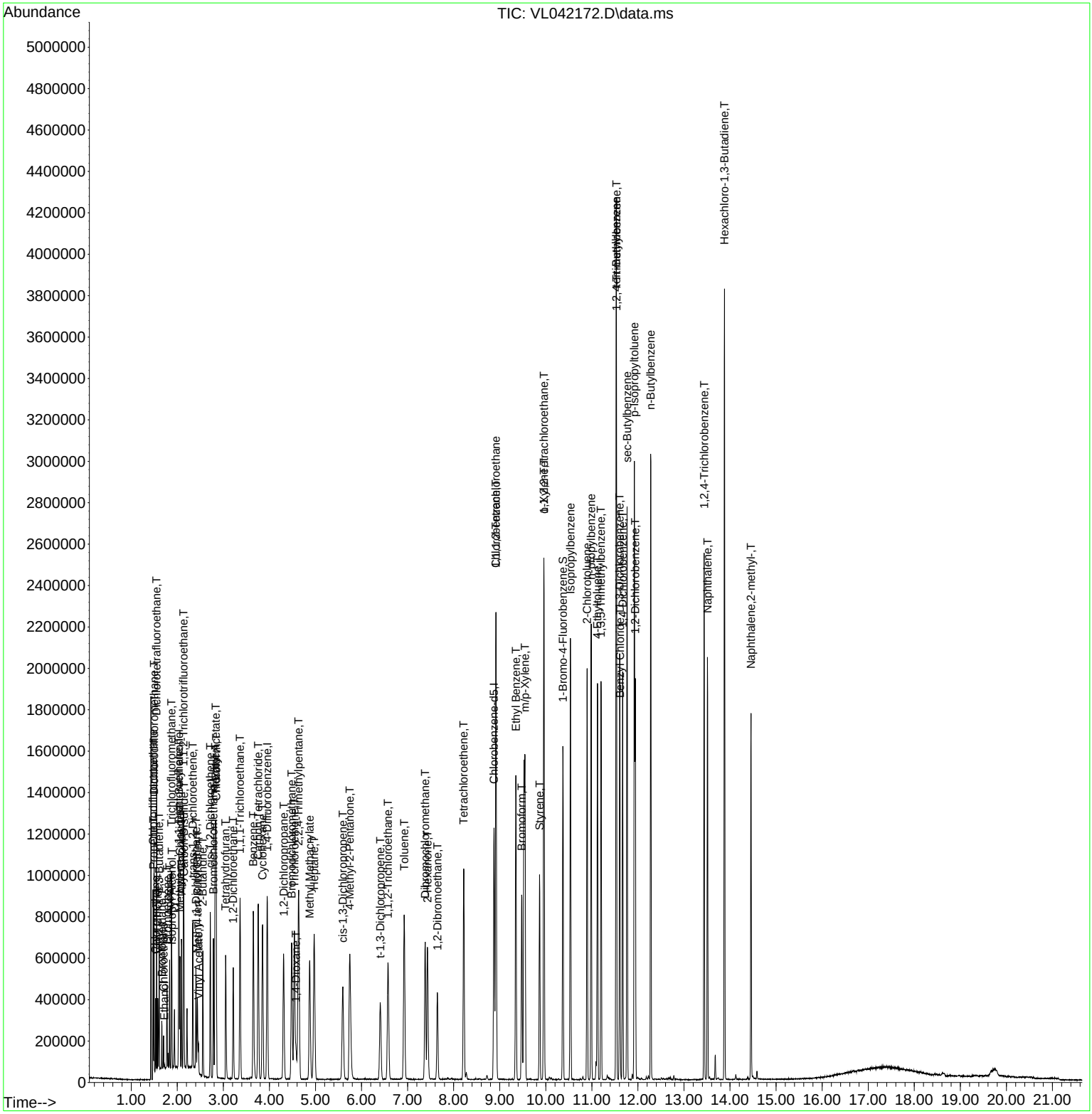
(#) = qualifier out of range (m) = manual integration (+) = signals summed

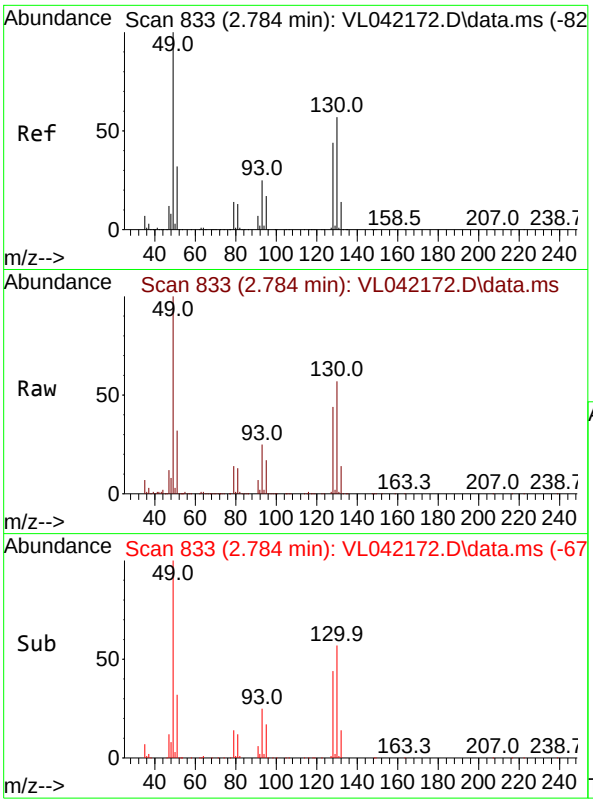
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042172.D
Acq On : 27 Mar 2025 08:26
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Quant Time: Mar 28 01:31:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration



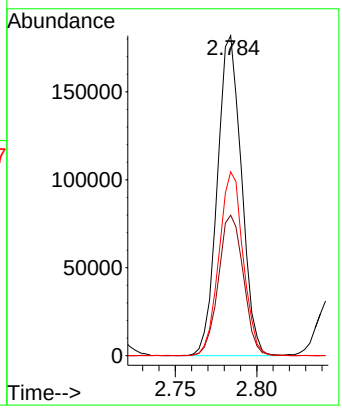


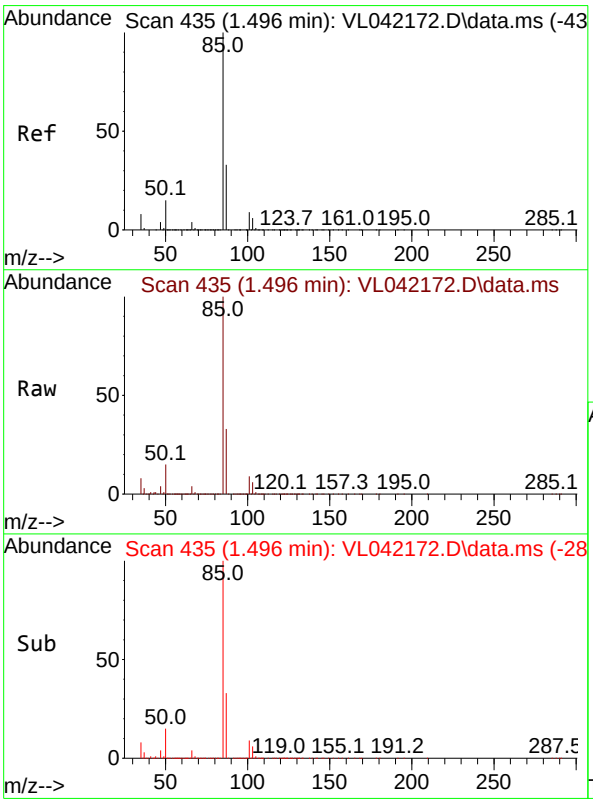

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion: 49 Resp: 187002

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 45.7 | 22.9 | 68.5 |
| 130 | 57.6 | 28.8 | 86.4 |

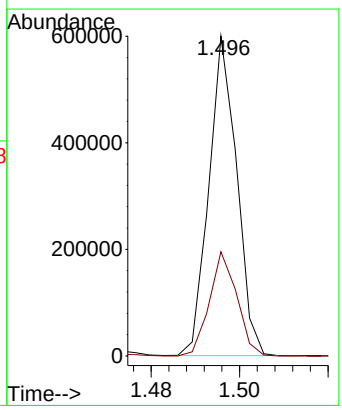


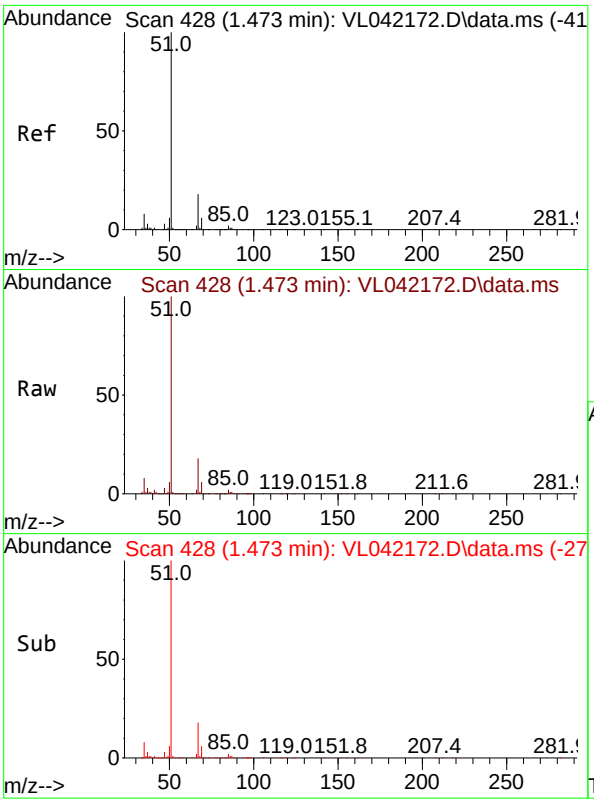




#2
Dichlorodifluoromethane
Concen: 9.507 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 85 Resp: 262496

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.6 | 26.1 | 39.1 |



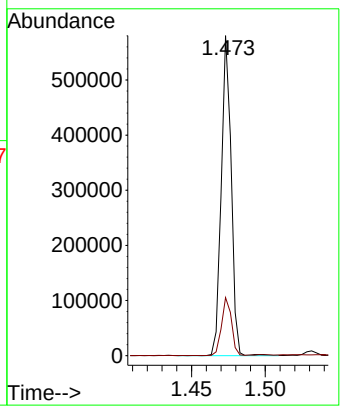


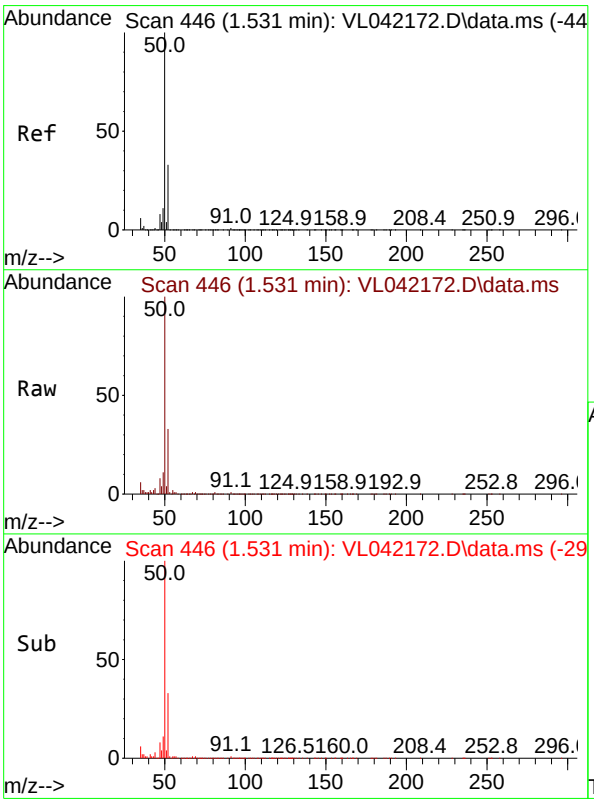

#3
Chlorodifluoromethane
Concen: 9.662 ppbv
RT: 1.473 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion: 51 Resp: 272522

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 18.8 | 15.0 | 22.6 |

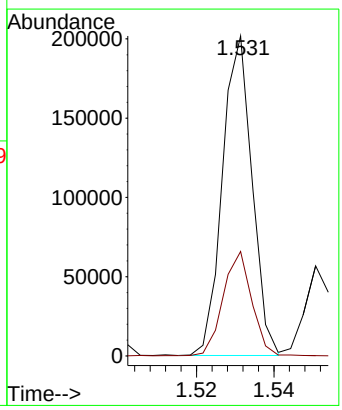


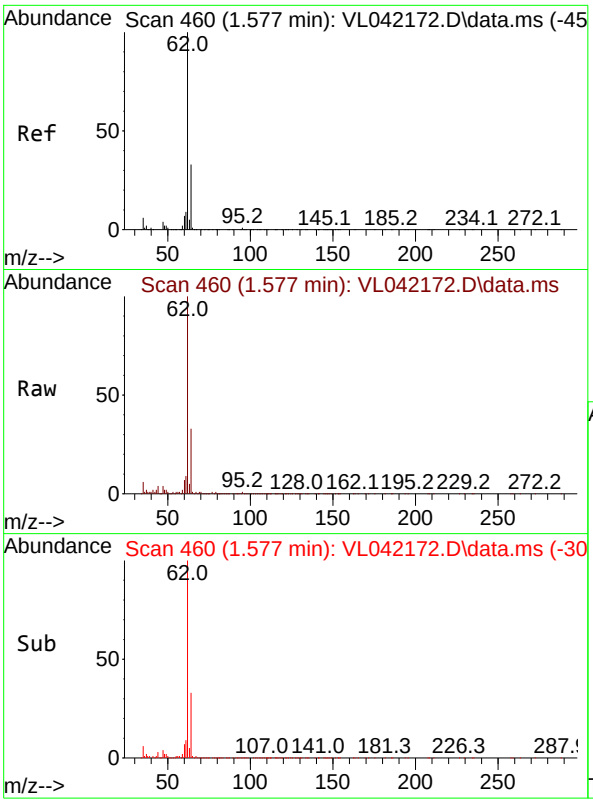




#4
Chloromethane
Concen: 9.491 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 50 Resp: 107099

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.6 | 26.1 | 39.1 |



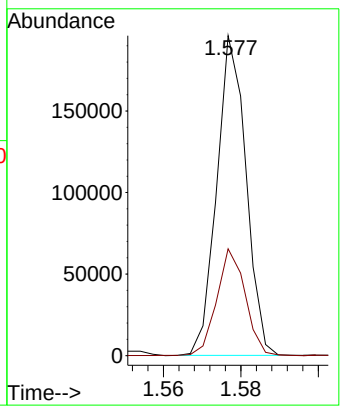


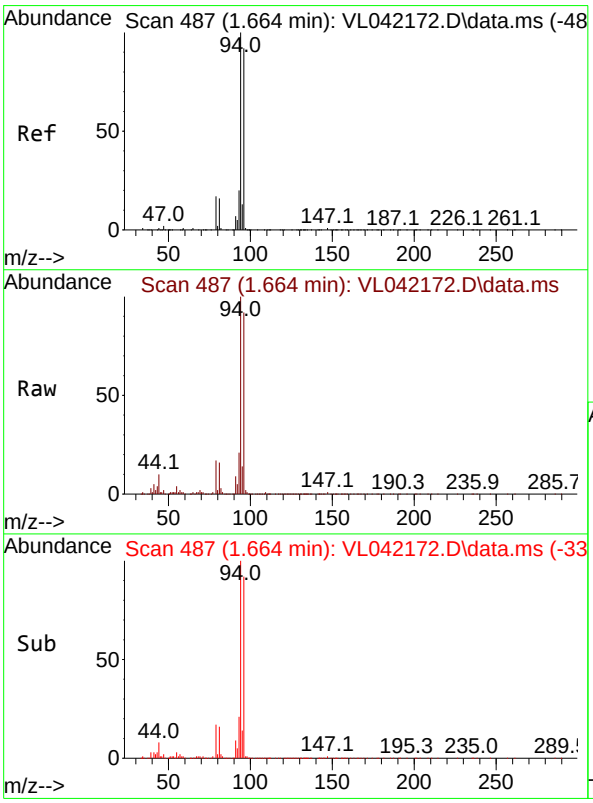

#5
Vinyl Chloride
Concen: 8.925 ppbv
RT: 1.577 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion: 62 Resp: 102699

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 33.3 | 26.6 | 40.0 |

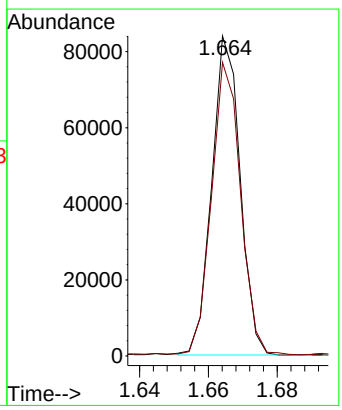


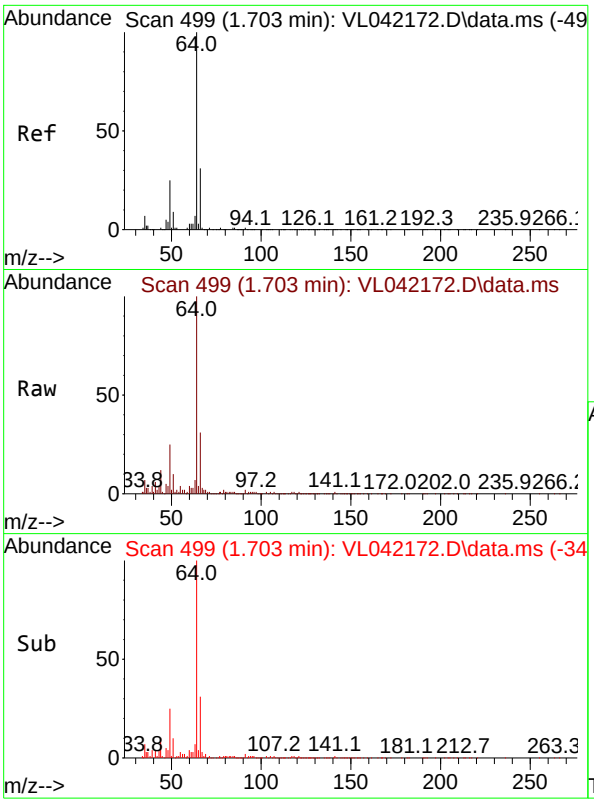




#6
Bromomethane
Concen: 9.377 ppbv
RT: 1.664 min Scan# 487
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 94 Resp: 47950

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 91.4 | 73.1 | 109.7 |



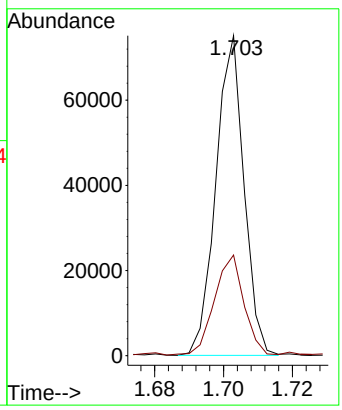


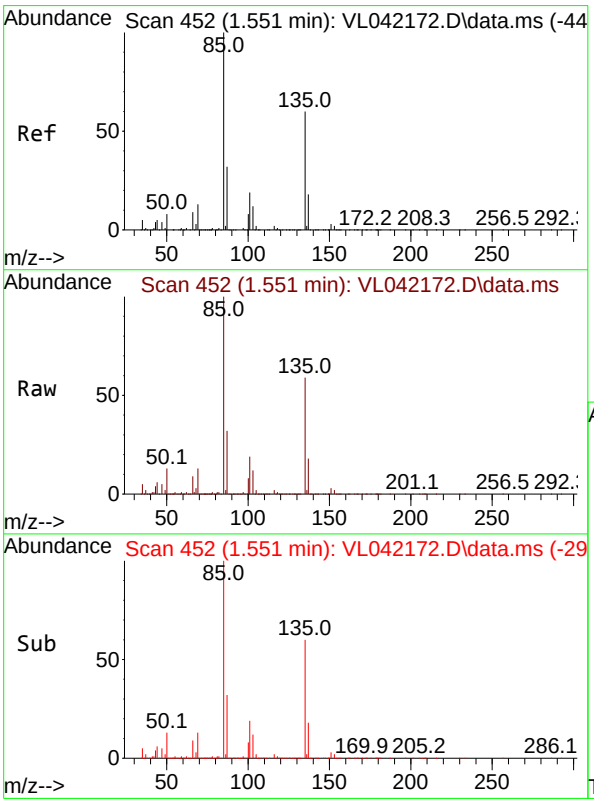

#7
Chloroethane
Concen: 9.387 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion: 64 Resp: 42516

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 31.5 | 25.2 | 37.8 |

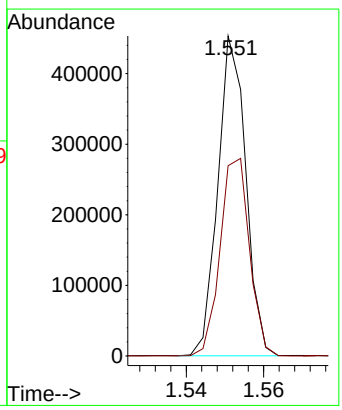


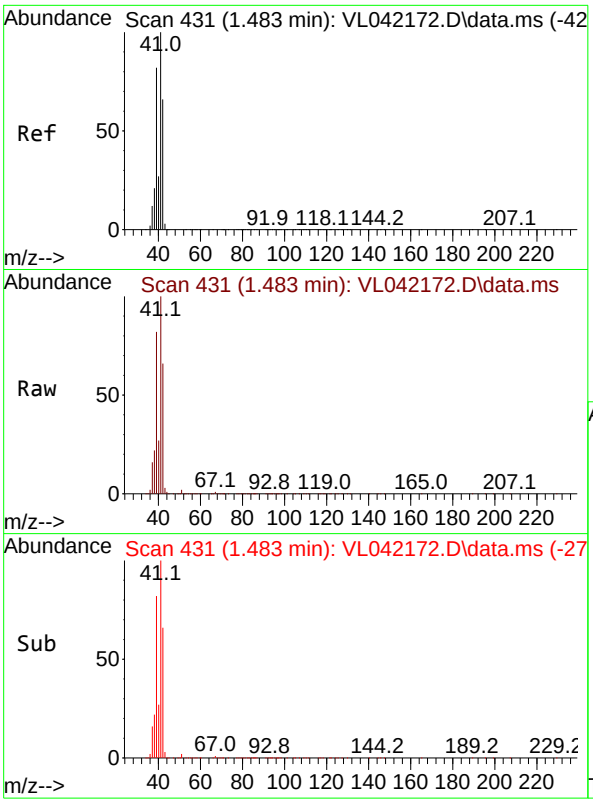




#8
Dichlorotetrafluoroethane
Concen: 9.656 ppbv
RT: 1.551 min Scan# 452
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 85 Resp: 227041

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 65.5 | 52.4 | 78.6 |



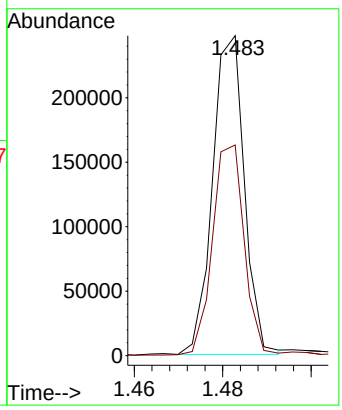


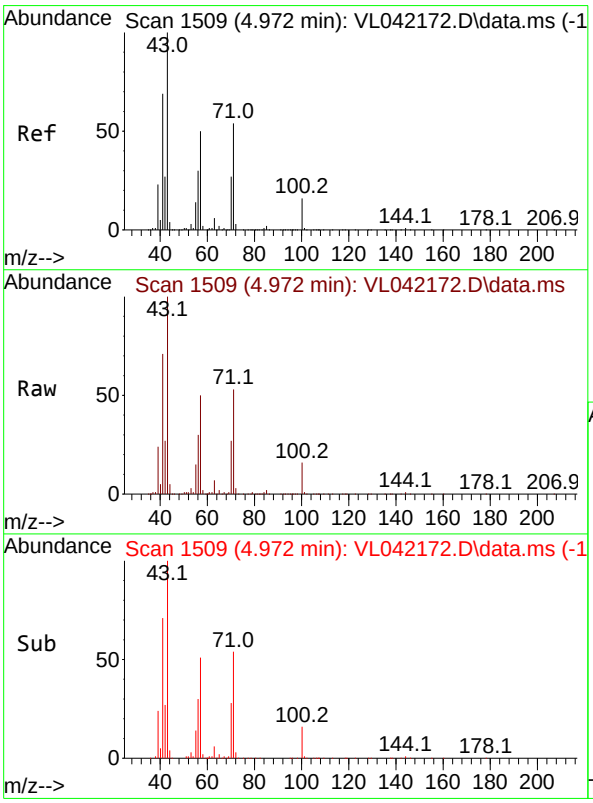

#9
Propene
Concen: 9.709 ppbv
RT: 1.483 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion: 41 Resp: 123386

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 69.3 | 55.4 | 83.2 |

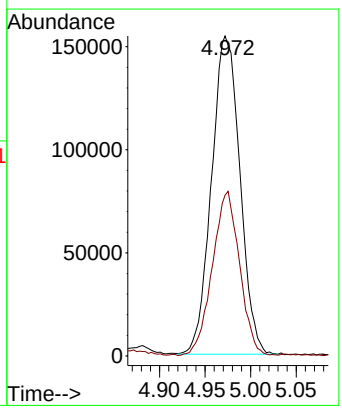


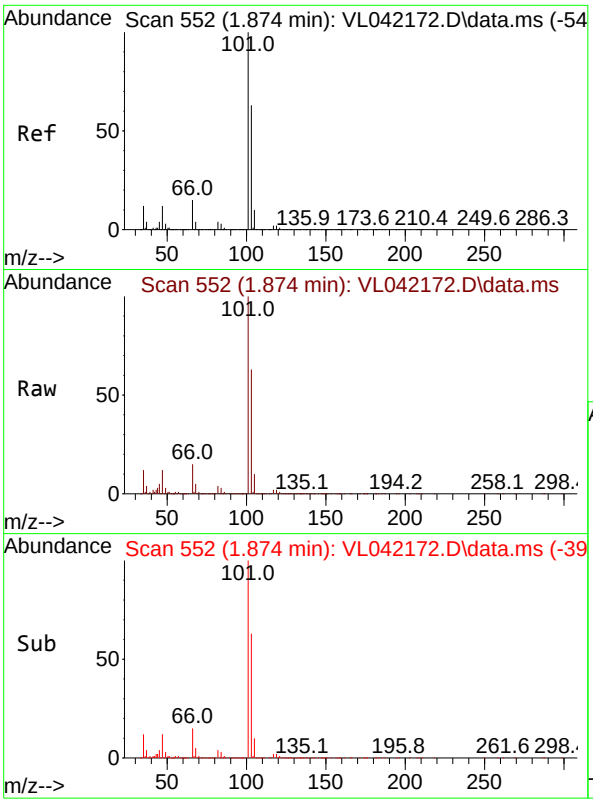




#10
Heptane
Concen: 9.744 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 43 Resp: 335086

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 49.3 | 39.4 | 59.2 |



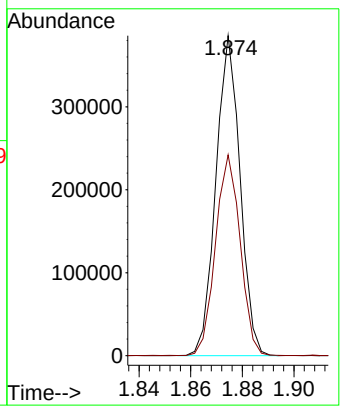


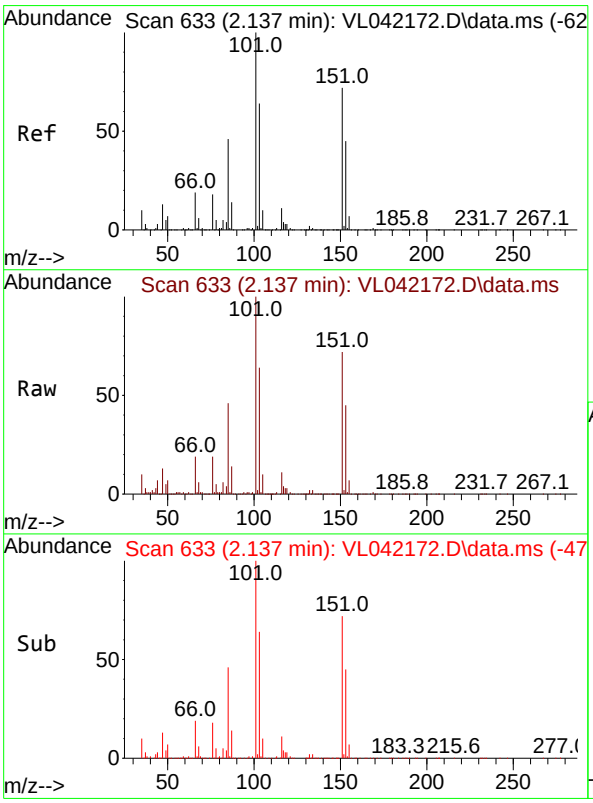

#11
Trichlorofluoromethane
Concen: 9.318 ppbv
RT: 1.874 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion:101 Resp: 250349

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 62.7 | 50.2 | 75.2 |

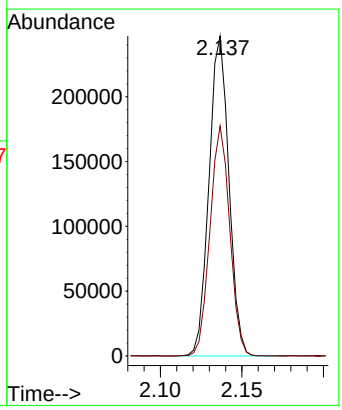


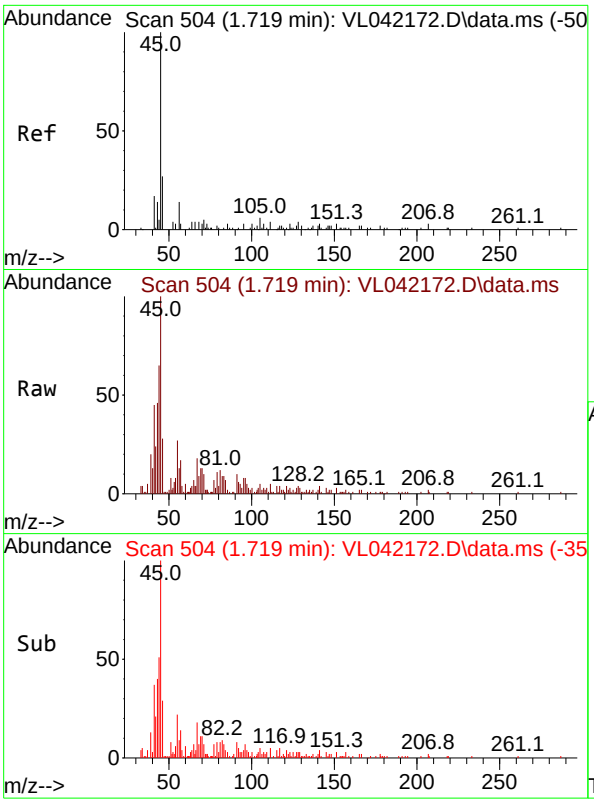




#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.481 ppbv
RT: 2.137 min Scan# 633
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:101 Resp: 209365

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 71.4 | 57.1 | 85.7 |



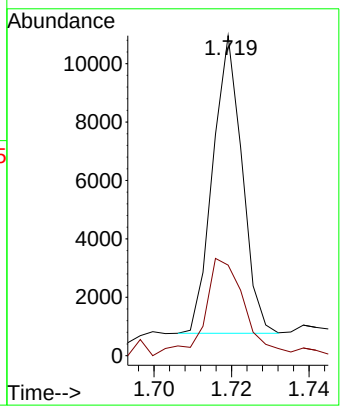


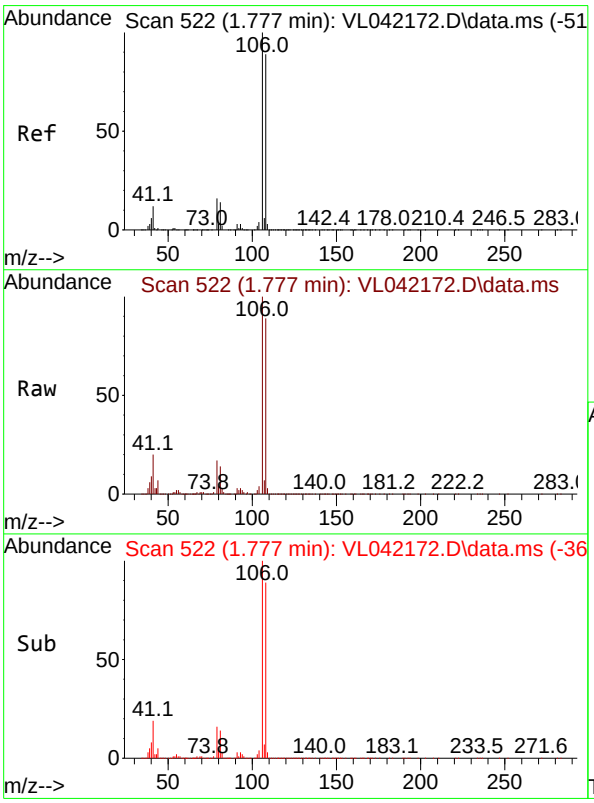

#13
Ethanol
Concen: 5.364 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion: 45 Resp: 5338

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 50.5 | 20.2 | 80.8 |

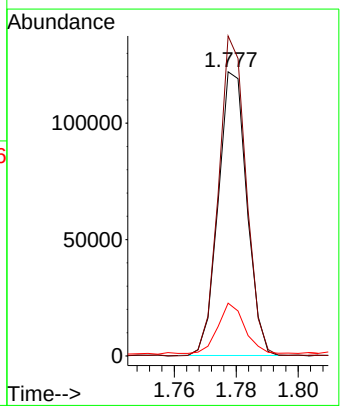


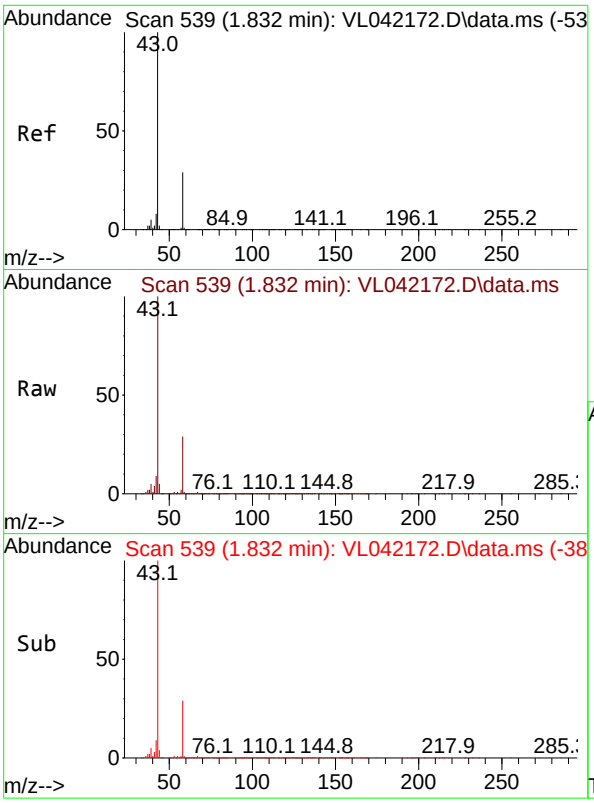




#14
Bromoethene
Concen: 9.220 ppbv
RT: 1.777 min Scan# 522
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:108 Resp: 77999

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 106 | 108.5 | 86.8 | 130.2 |
| 79 | 18.8 | 15.0 | 22.6 |



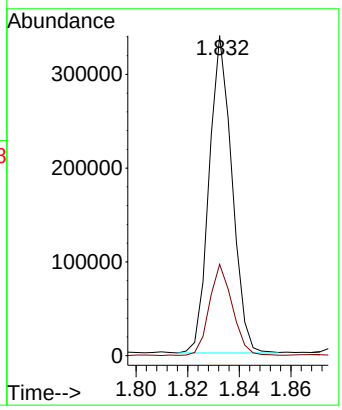


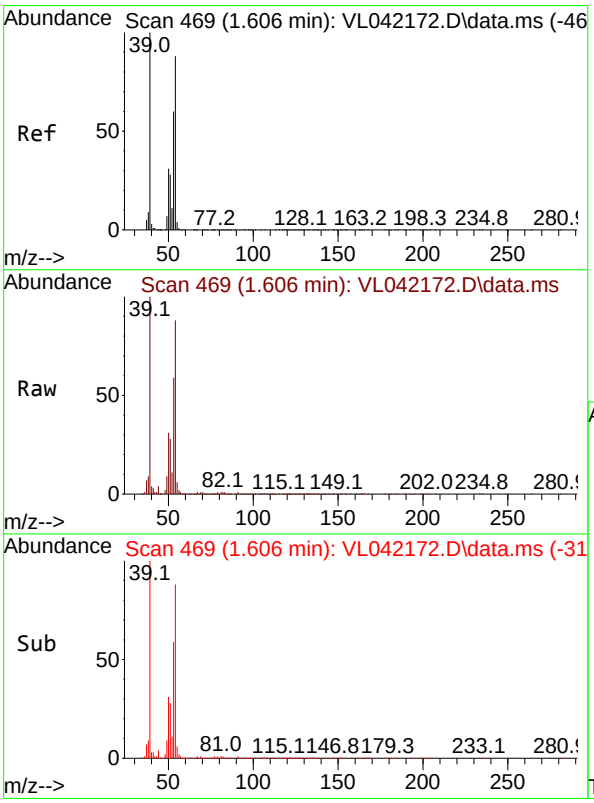

#15
Acetone
Concen: 7.955 ppbv
RT: 1.832 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion: 43 Resp: 208061

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 29.0 | 23.2 | 34.8 |

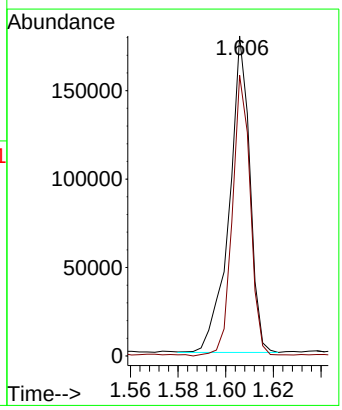


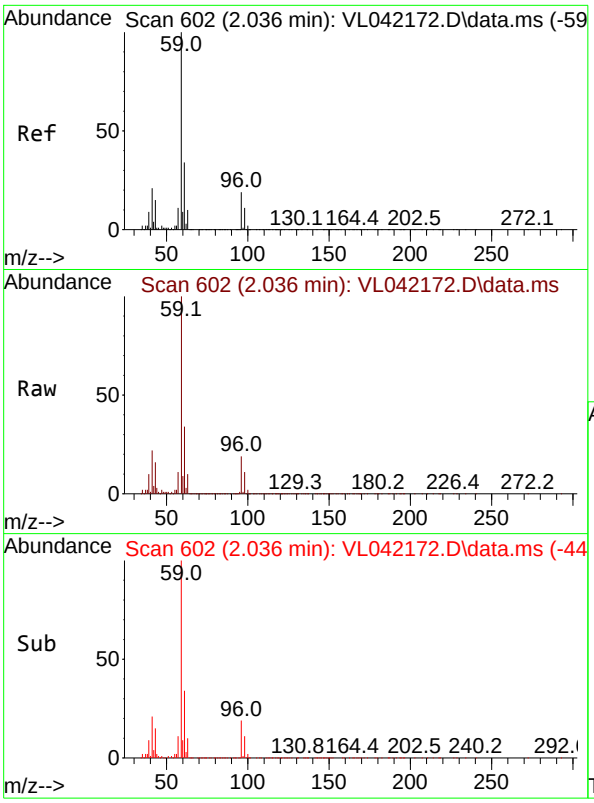




#16
1,3-Butadiene
Concen: 9.105 ppbv
RT: 1.606 min Scan# 469
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 39 Resp: 107104

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 75.9 | 60.7 | 91.1 |



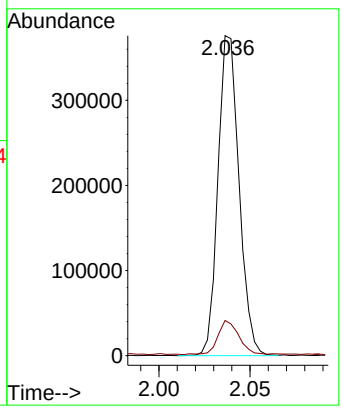


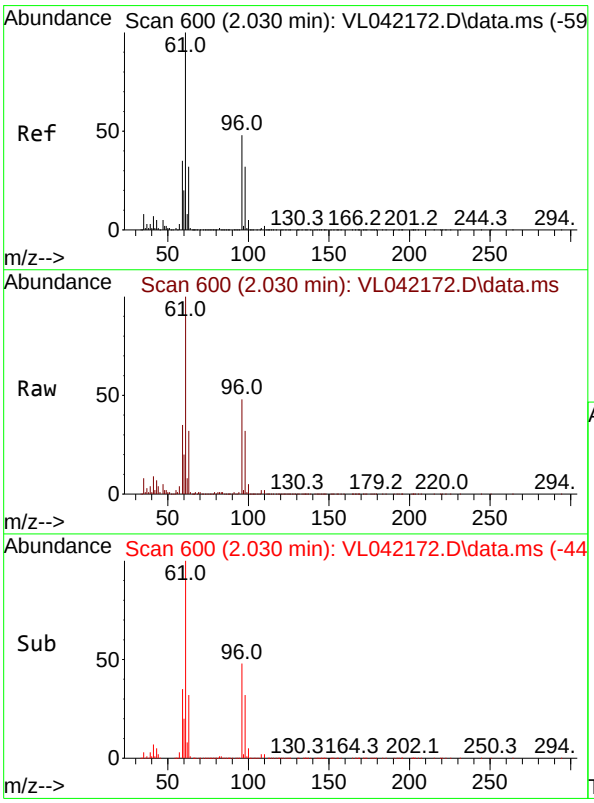

#17
tert-Butyl alcohol
Concen: 9.290 ppbv
RT: 2.036 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion: 59 Resp: 302616

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 11.1 | 8.9 | 13.3 |

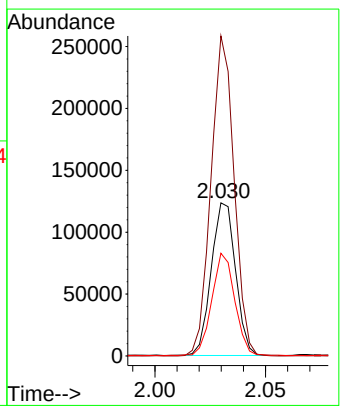


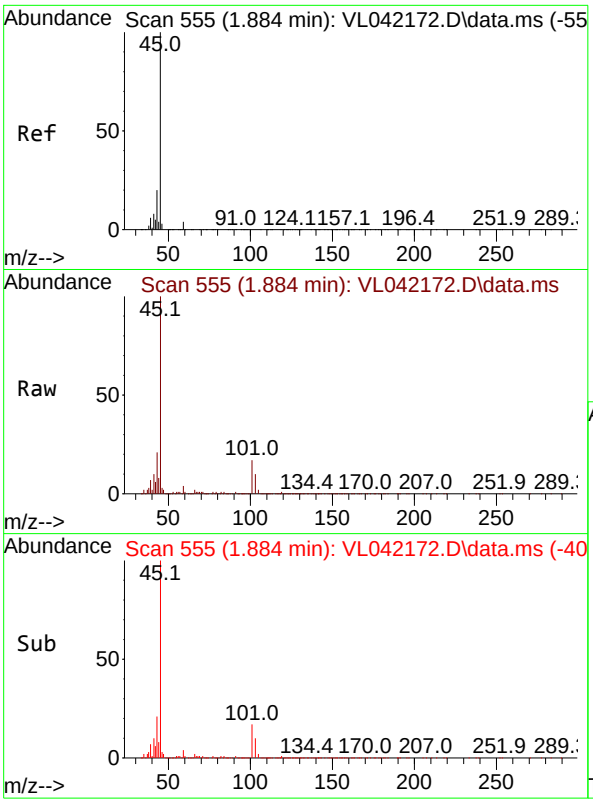




#18
1,1-Dichloroethene
Concen: 9.128 ppbv
RT: 2.030 min Scan# 600
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 96 Resp: 94236

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 209.5 | 167.6 | 251.4 |
| 98 | 66.9 | 53.5 | 80.3 |



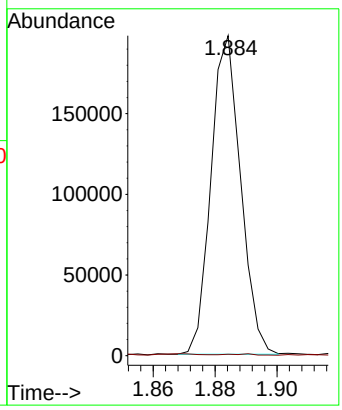


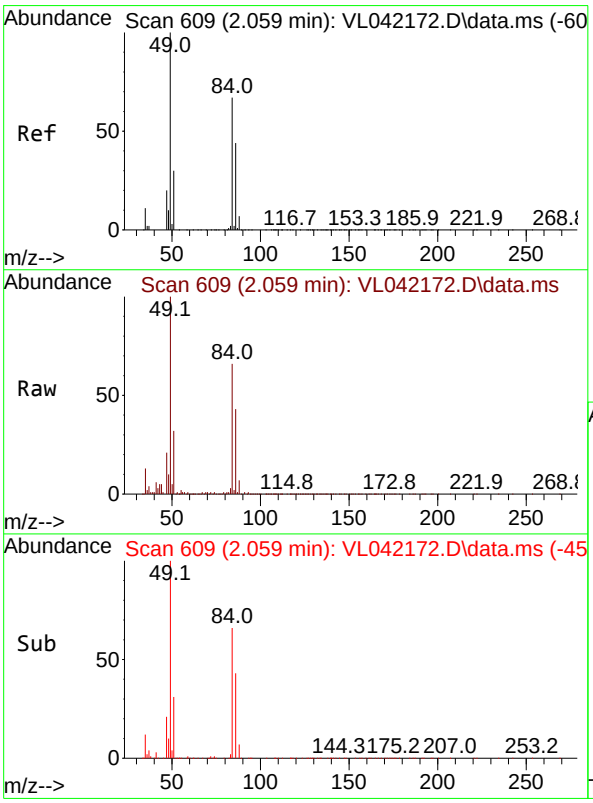

#19
Isopropyl Alcohol
Concen: 8.902 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion: 45 Resp: 131359

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 46.1 | 36.9 | 55.3 |

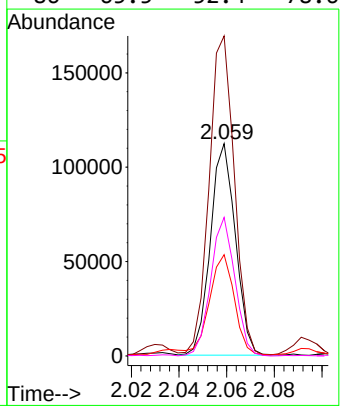


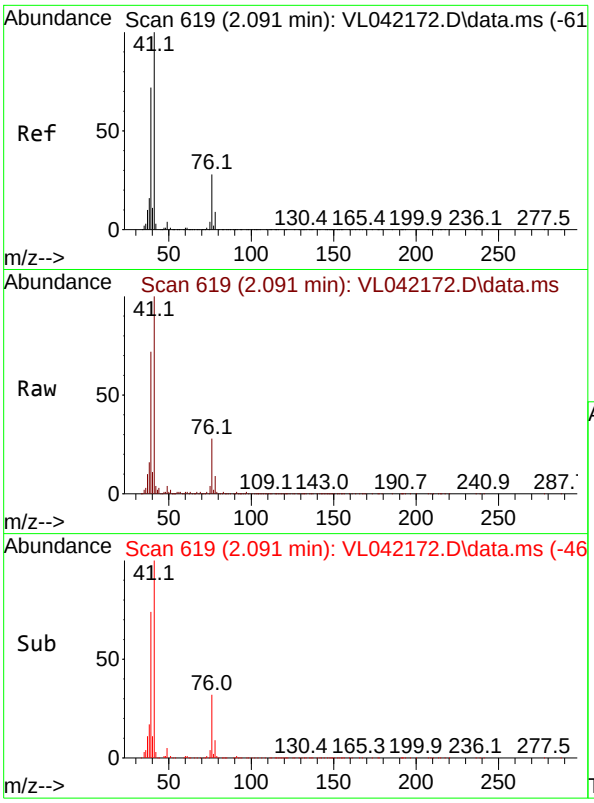




#20
Methylene Chloride
Concen: 8.401 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 84 Resp: 81828

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 150.3 | 120.2 | 180.4 |
| 51 | 46.7 | 37.4 | 56.0 |
| 86 | 65.5 | 52.4 | 78.6 |



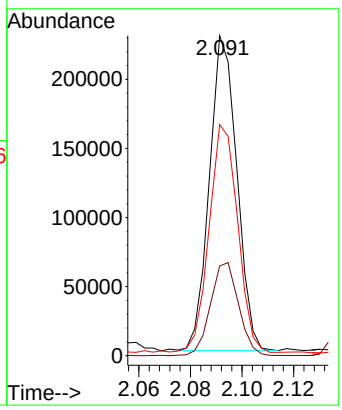


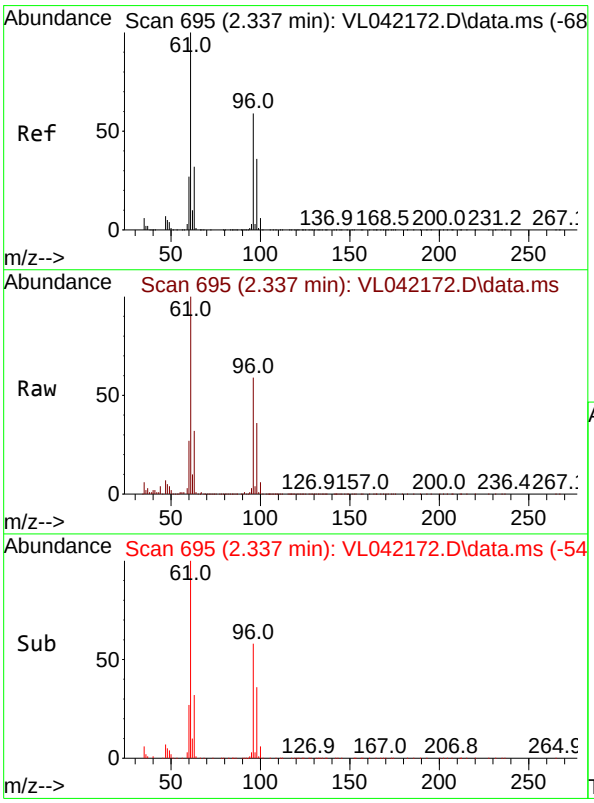

#21
Allyl Chloride
Concen: 9.141 ppbv
RT: 2.091 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion: 41 Resp: 168602

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 30.1 | 24.1 | 36.1 |
| 39 | 76.4 | 61.1 | 91.7 |

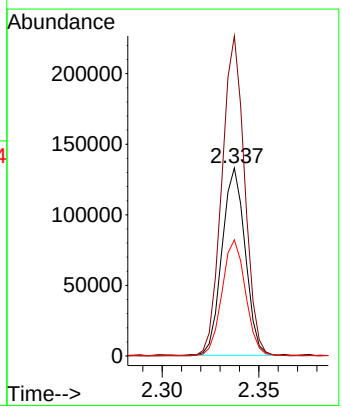


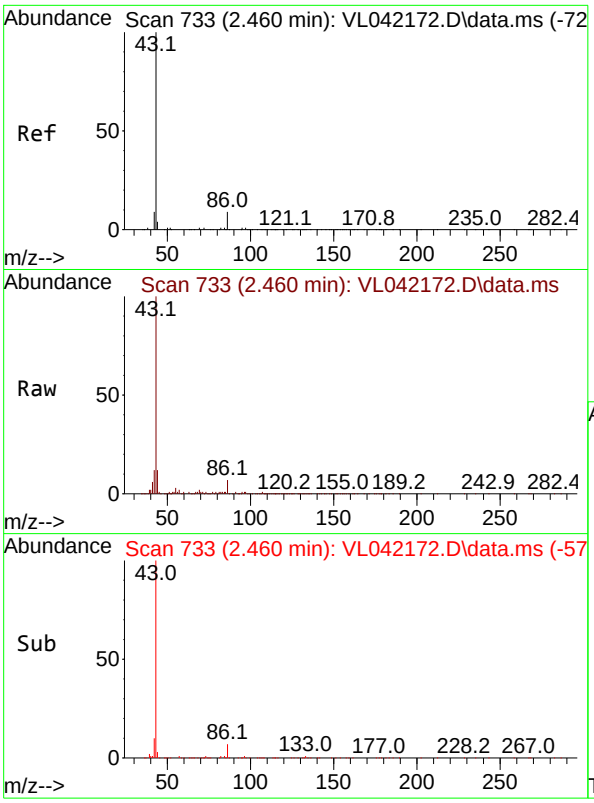




#22
trans-1,2-Dichloroethene
Concen: 9.149 ppbv
RT: 2.337 min Scan# 695
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 96 Resp: 110371

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 170.7 | 136.6 | 204.8 |
| 98 | 61.8 | 49.4 | 74.2 |



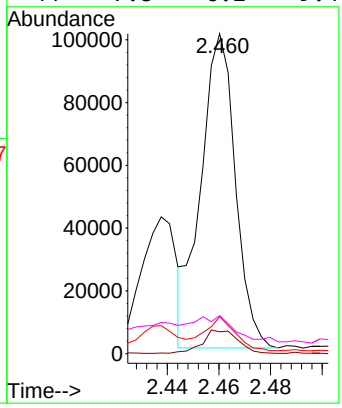


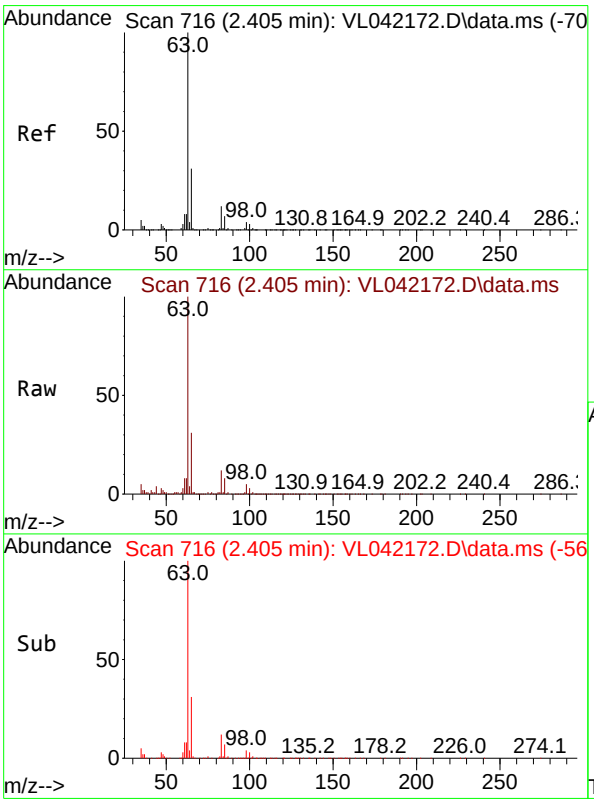

#23
Vinyl Acetate
Concen: 8.563 ppbv
RT: 2.460 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion: 43 Resp: 93080

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 6.9 | 5.5 | 8.3 |
| 42 | 10.8 | 8.6 | 13.0 |
| 44 | 7.8 | 6.2 | 9.4 |

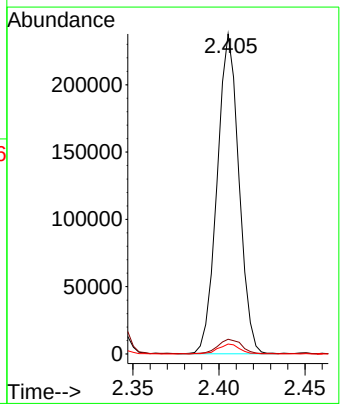


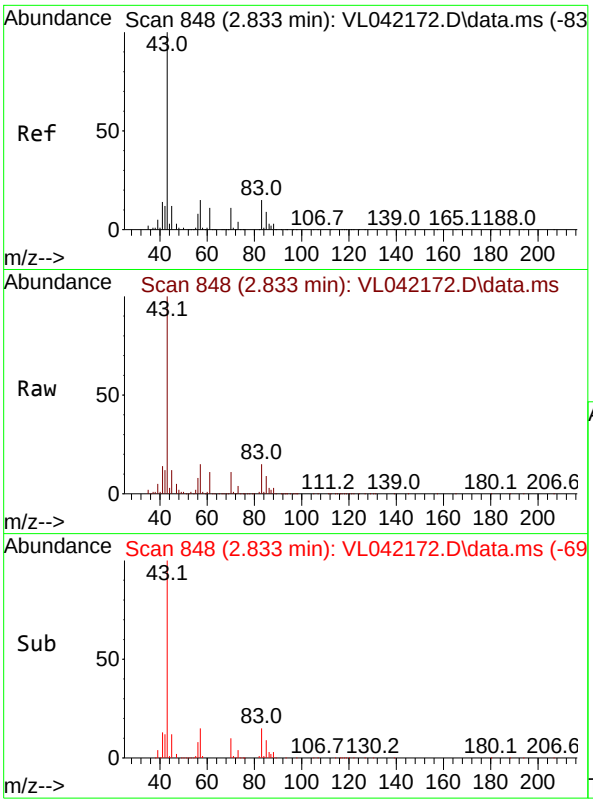




#24
1,1-Dichloroethane
Concen: 9.484 ppbv
RT: 2.405 min Scan# 716
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 63 Resp: 209753

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 4.5 | 2.3 | 6.8 |
| 100 | 3.1 | 1.6 | 4.7 |



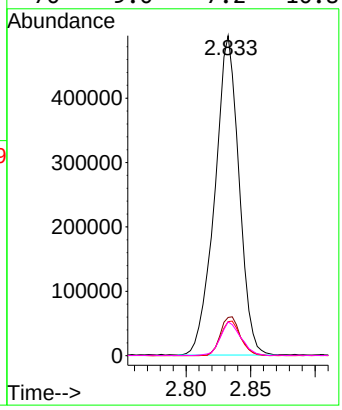


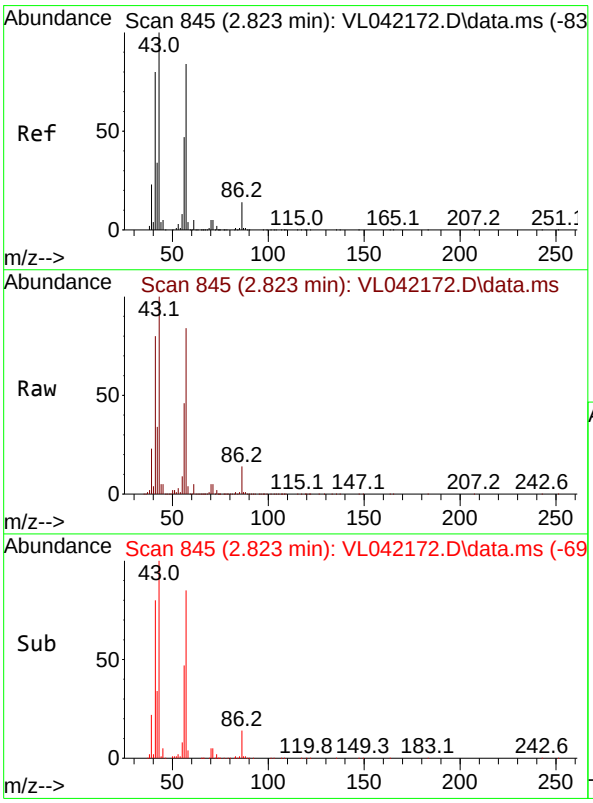

#25
Ethyl Acetate
Concen: 9.524 ppbv
RT: 2.833 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion: 43 Resp: 646501

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 10.2 | 8.2 | 12.2 |
| 61 | 9.1 | 7.3 | 10.9 |
| 70 | 9.0 | 7.2 | 10.8 |

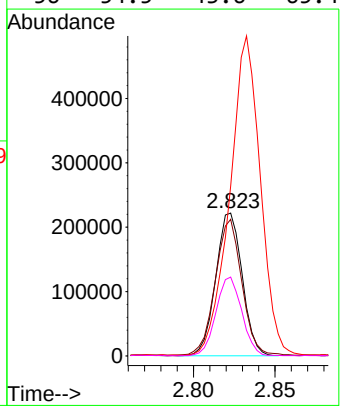


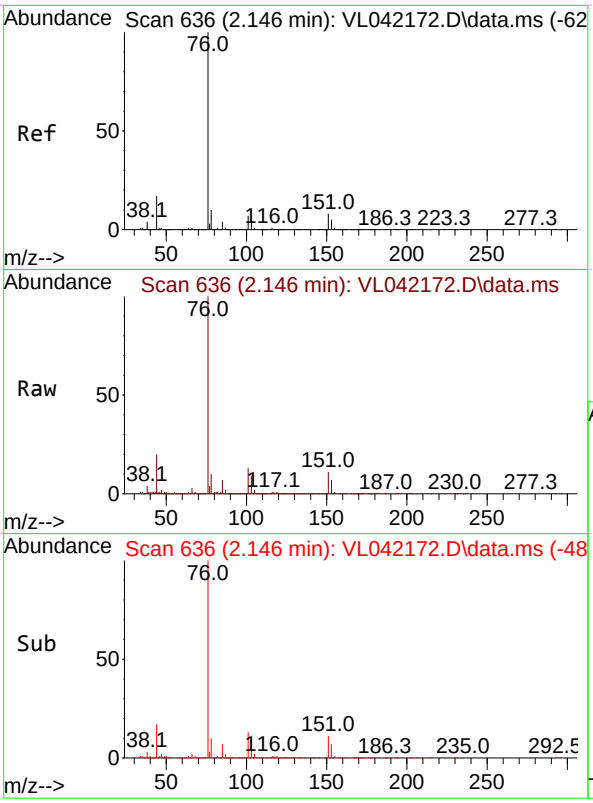




#26
Hexane
Concen: 9.510 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 57 Resp: 249331

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 95.7 | 76.6 | 114.8 |
| 43 | 259.8 | 207.8 | 311.8 |
| 56 | 54.5 | 43.6 | 65.4 |



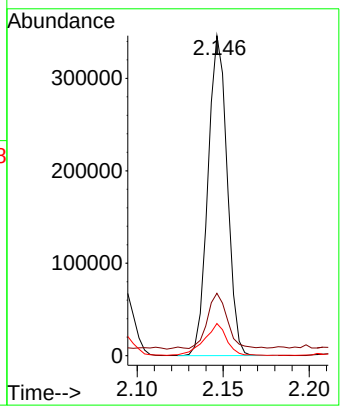


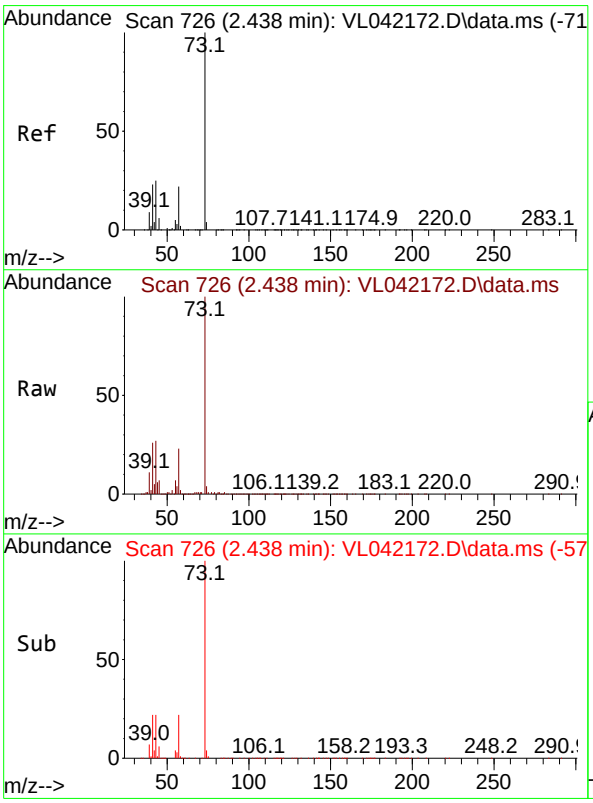

#27
Carbon Disulfide
Concen: 9.550 ppbv
RT: 2.146 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion: 76 Resp: 268507

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 18.4 | 14.7 | 22.1 |
| 78 | 11.6 | 9.3 | 13.9 |

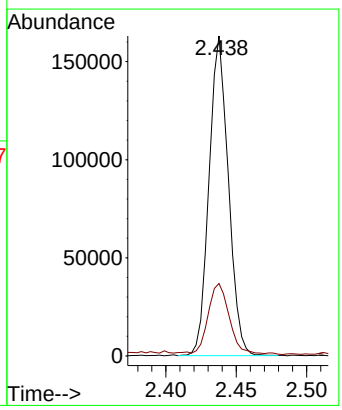


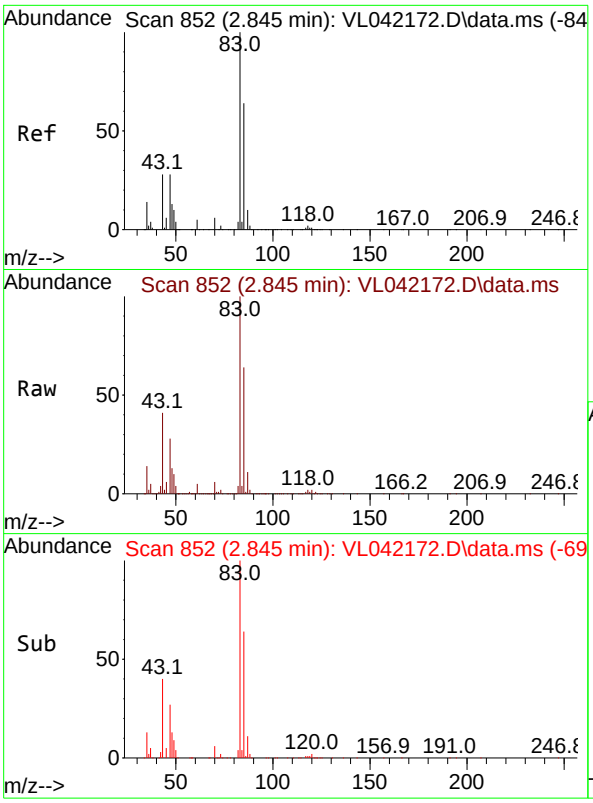




#28
Methyl tert-Butyl Ether
Concen: 9.520 ppbv
RT: 2.438 min Scan# 726
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 73 Resp: 155398

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 25.6 | 20.5 | 30.7 |



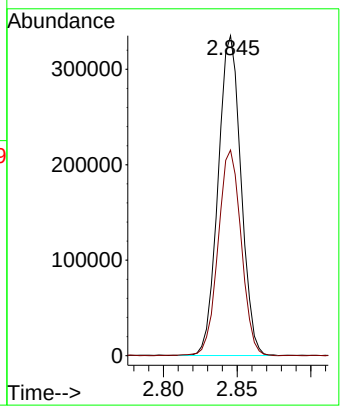


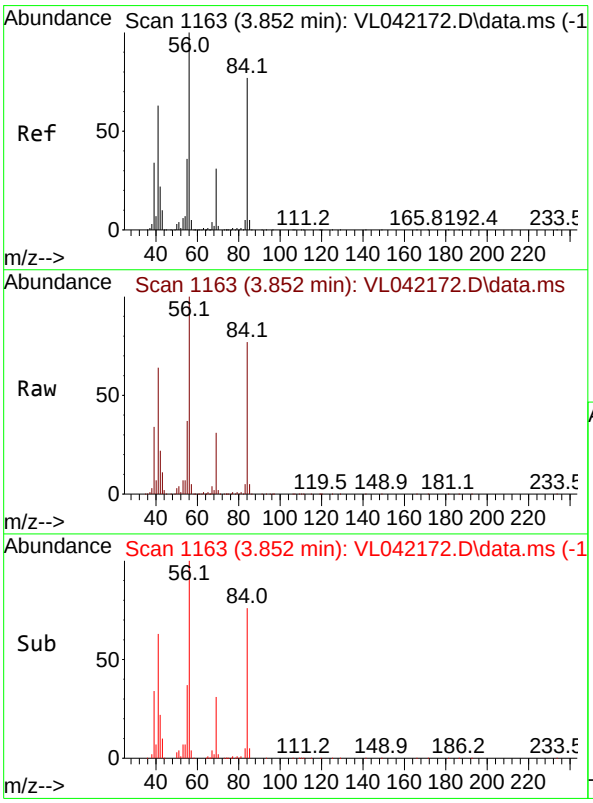

#29
Chloroform
Concen: 9.415 ppbv
RT: 2.845 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion: 83 Resp: 361264

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.3 | 51.4 | 77.2 |

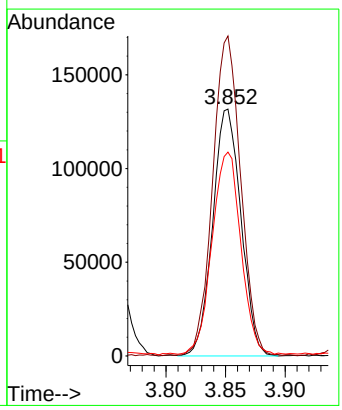


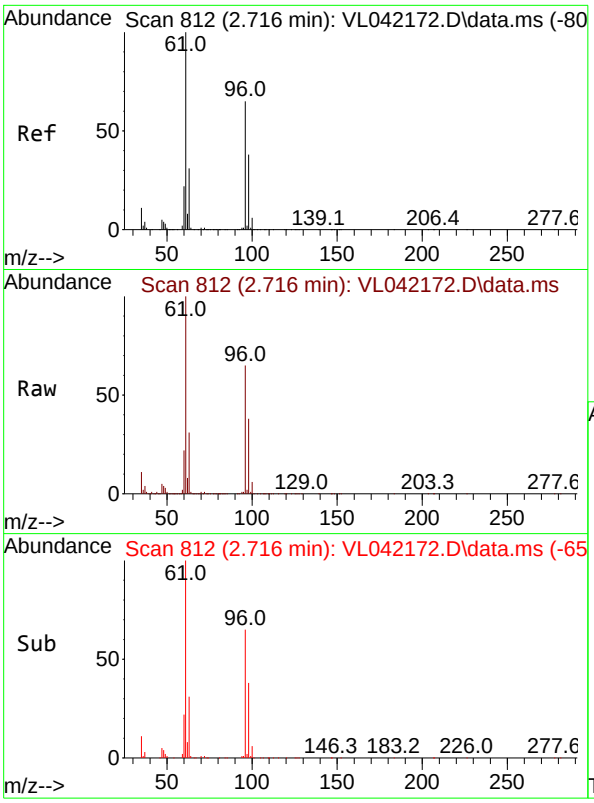




#30
Cyclohexane
Concen: 9.537 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 84 Resp: 217215

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 128.5 | 102.8 | 154.2 |
| 41 | 83.1 | 66.5 | 99.7 |



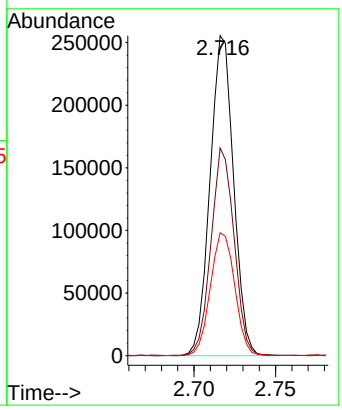


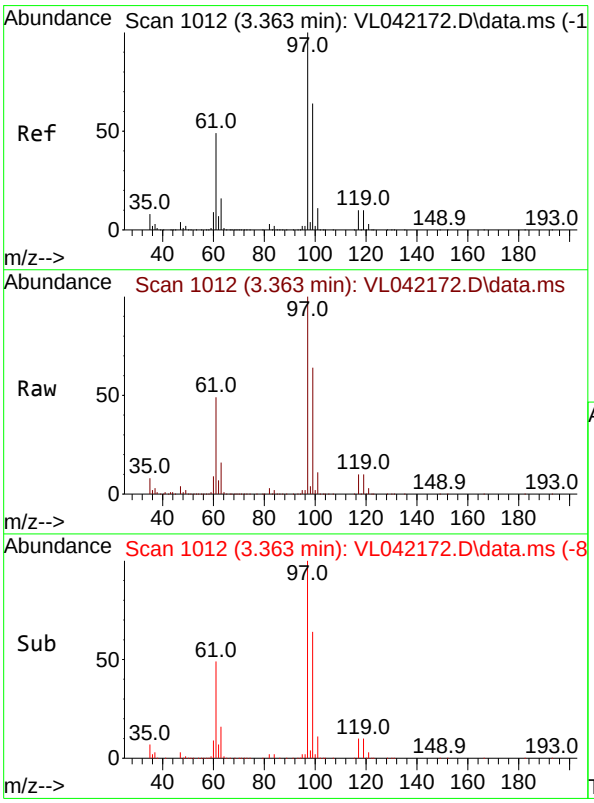

#31
cis-1,2-Dichloroethene
Concen: 9.634 ppbv
RT: 2.716 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion: 61 Resp: 256425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 64.8 | 51.8 | 77.8 |
| 98 | 38.3 | 30.6 | 46.0 |

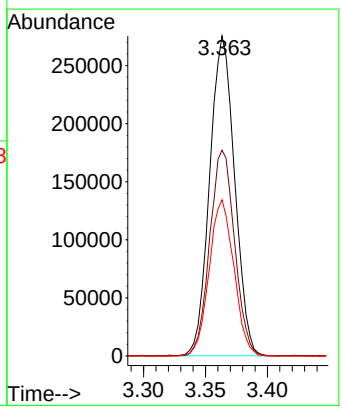


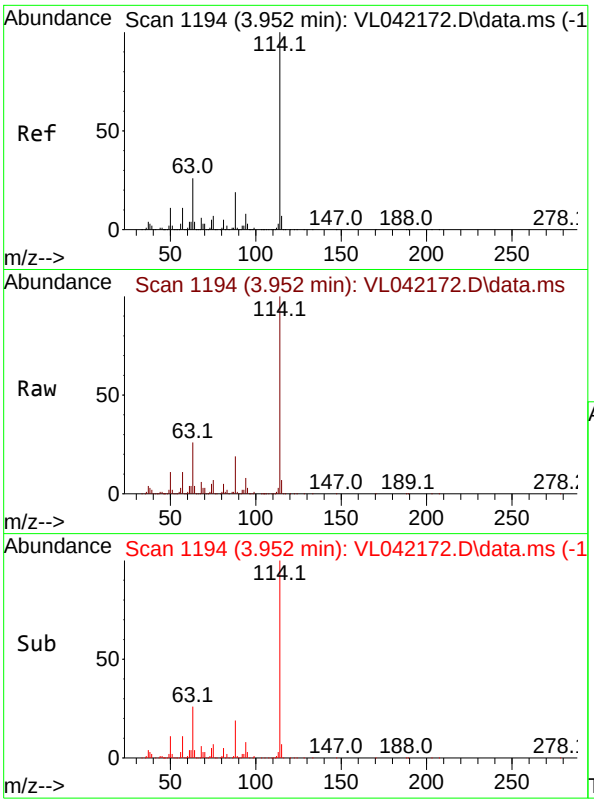




#32
1,1,1-Trichloroethane
Concen: 8.784 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 97 Resp: 385628

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.4 | 51.5 | 77.3 |
| 61 | 48.4 | 38.7 | 58.1 |



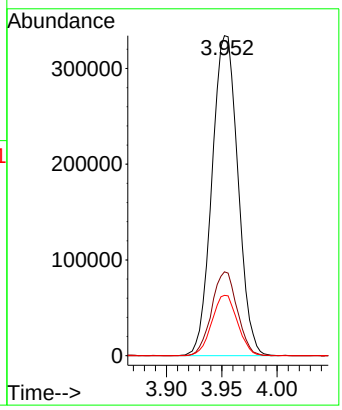


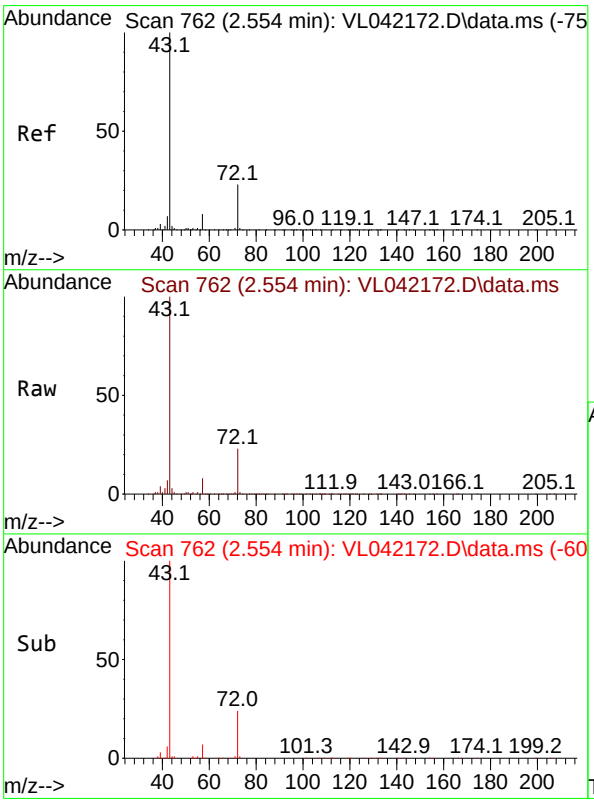

#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion:114 Resp: 545068

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.9 | 20.7 | 31.1 |
| 88 | 18.7 | 15.0 | 22.4 |

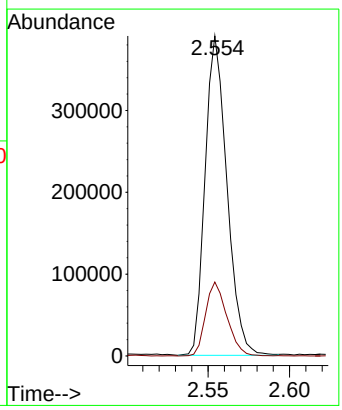


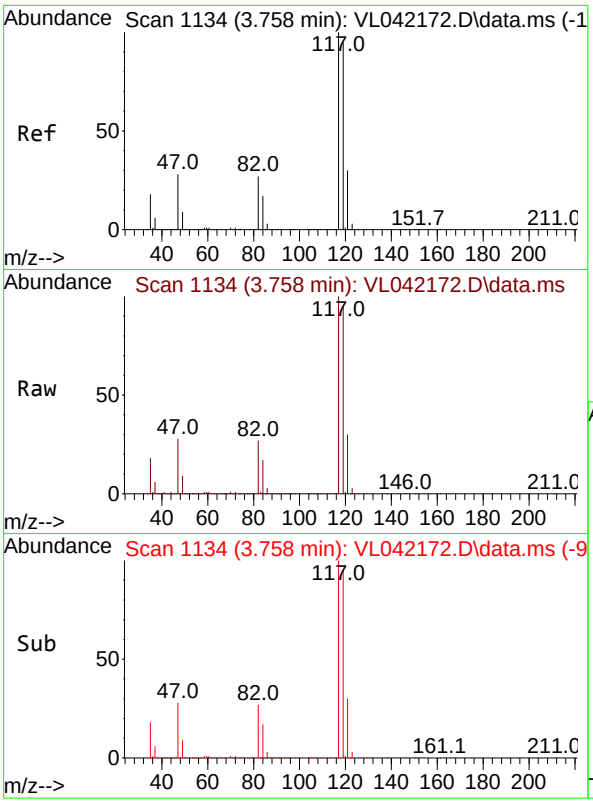




#34
2-Butanone
Concen: 9.203 ppbv
RT: 2.554 min Scan# 762
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 43 Resp: 363735

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 22.7 | 18.2 | 27.2 |



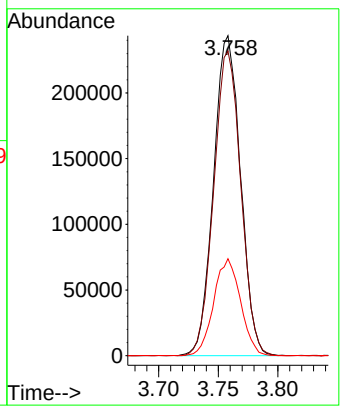


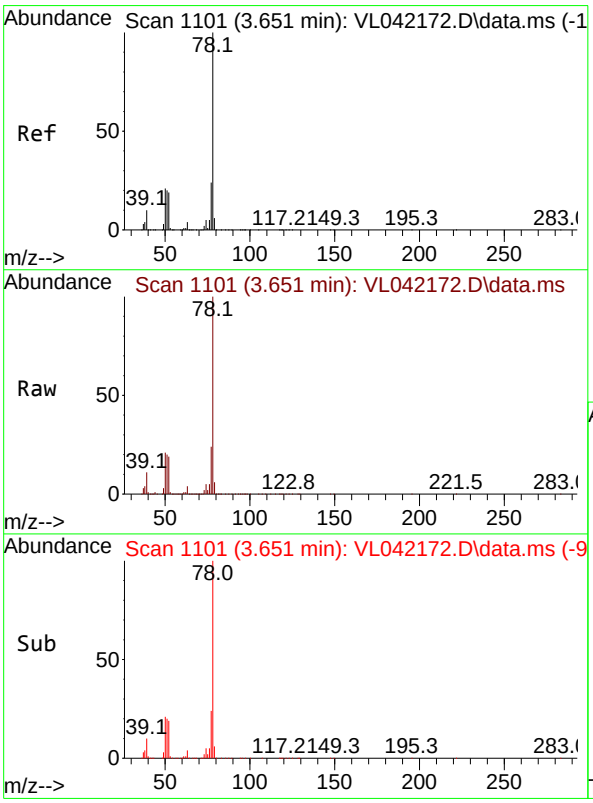

#35
Carbon Tetrachloride
Concen: 9.129 ppbv
RT: 3.758 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion:117 Resp: 382925

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 95.2 | 76.2 | 114.2 |
| 121 | 30.3 | 24.2 | 36.4 |

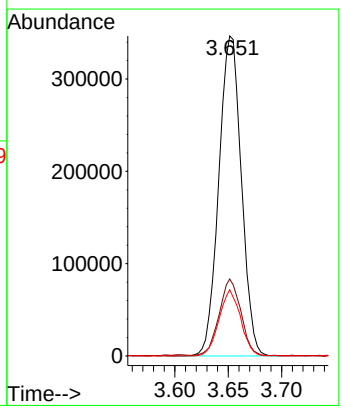


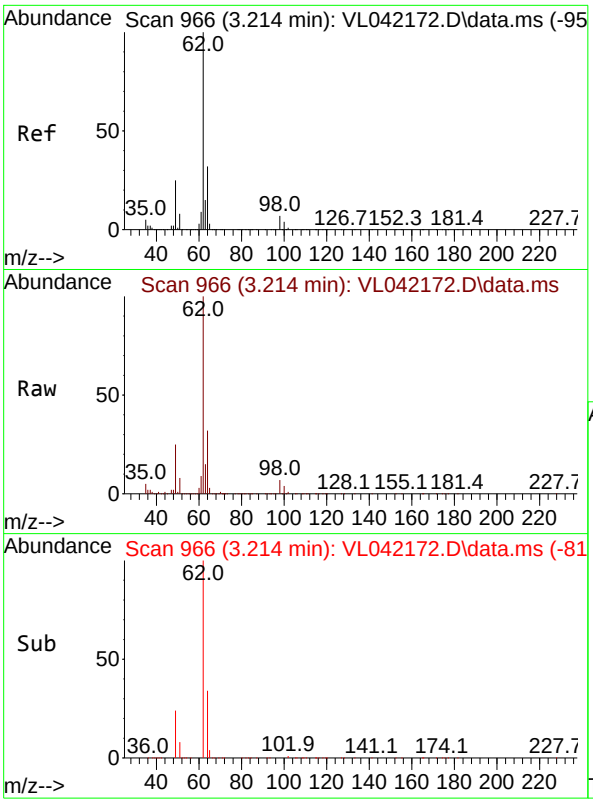




#36
Benzene
Concen: 9.417 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 78 Resp: 508860

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.9 | 19.1 | 28.7 |
| 50 | 20.7 | 16.6 | 24.8 |



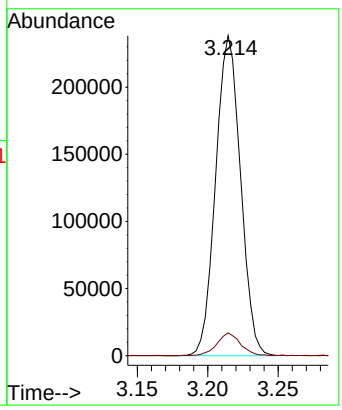


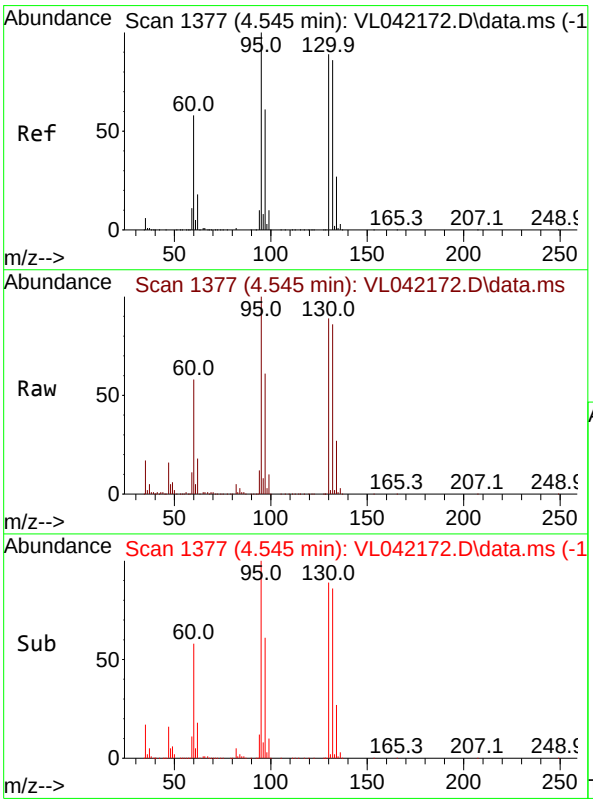

#37
1,2-Dichloroethane
Concen: 9.469 ppbv
RT: 3.214 min Scan# 9
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion: 62 Resp: 292937

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 6.8 | 5.4 | 8.2 |

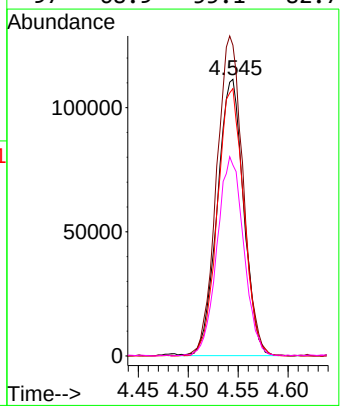


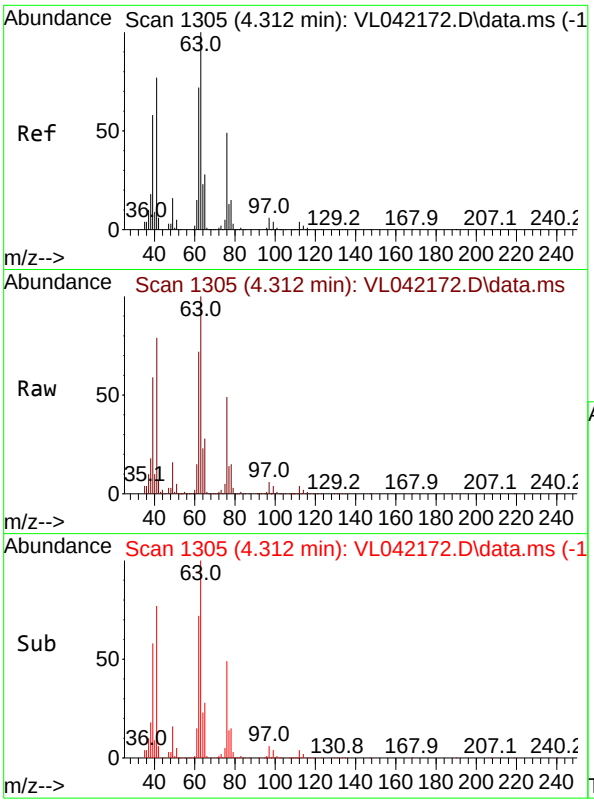




#38
Trichloroethene
Concen: 9.045 ppbv
RT: 4.545 min Scan# 1377
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:130 Resp: 204027

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 112.3 | 89.8 | 134.8 |
| 132 | 96.8 | 77.4 | 116.2 |
| 97 | 68.9 | 55.1 | 82.7 |



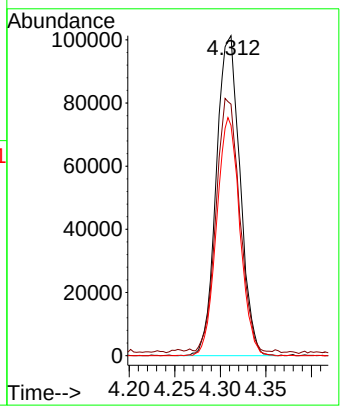


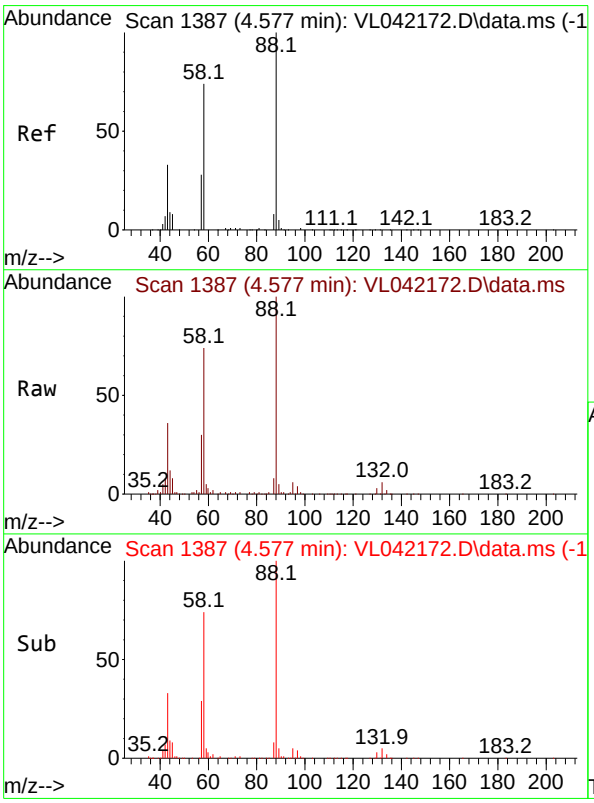

#39
1,2-Dichloropropane
Concen: 9.321 ppbv
RT: 4.312 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion: 63 Resp: 183439

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 77.1 | 61.7 | 92.5 |
| 62 | 72.0 | 57.6 | 86.4 |

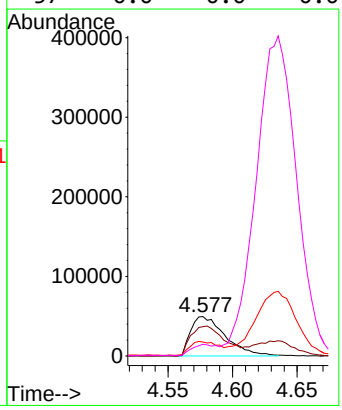


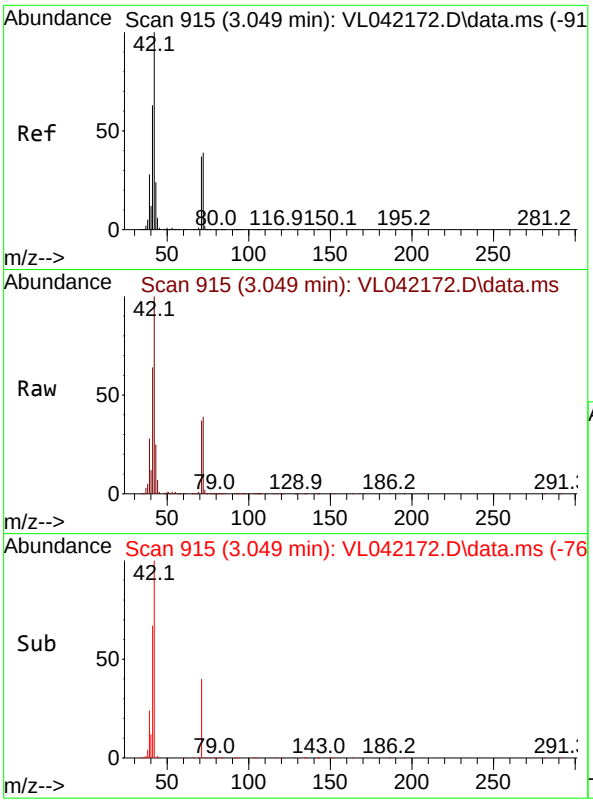




#40
1,4-Dioxane
Concen: 9.042 ppbv
RT: 4.577 min Scan# 1387
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 88 Resp: 92327

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 78.4 | 62.7 | 94.1 |
| 43 | 28.7 | 23.0 | 34.4 |
| 57 | 0.0 | 0.0 | 0.0 |



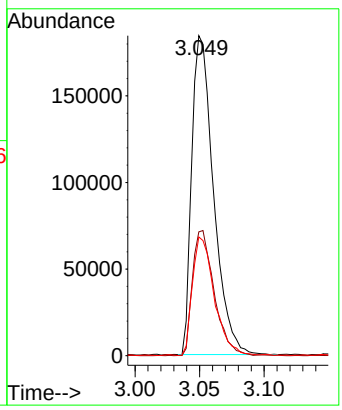


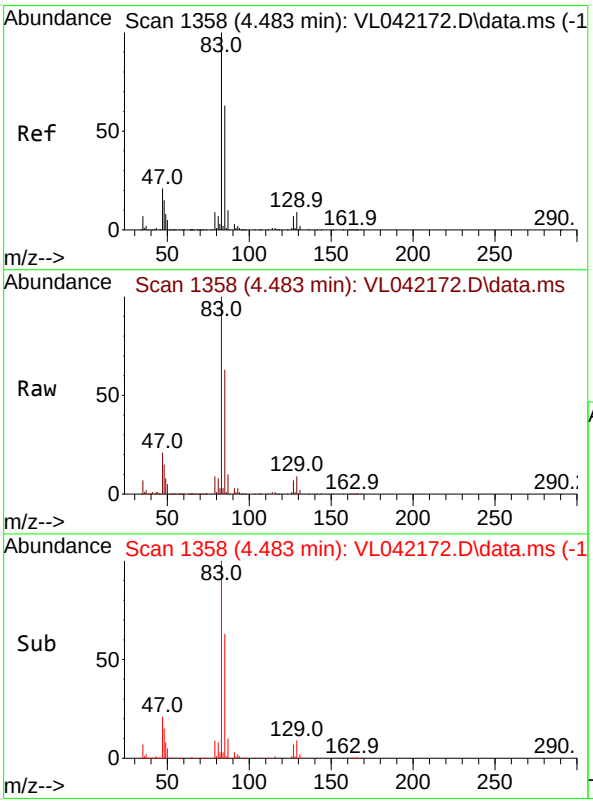

#41
Tetrahydrofuran
Concen: 9.643 ppbv
RT: 3.049 min Scan# 91
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion: 42 Resp: 216851

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 39.2 | 31.4 | 47.0 |
| 71 | 37.8 | 30.2 | 45.4 |

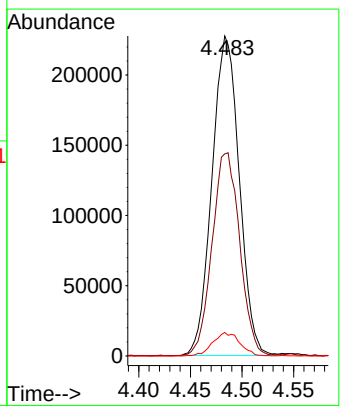


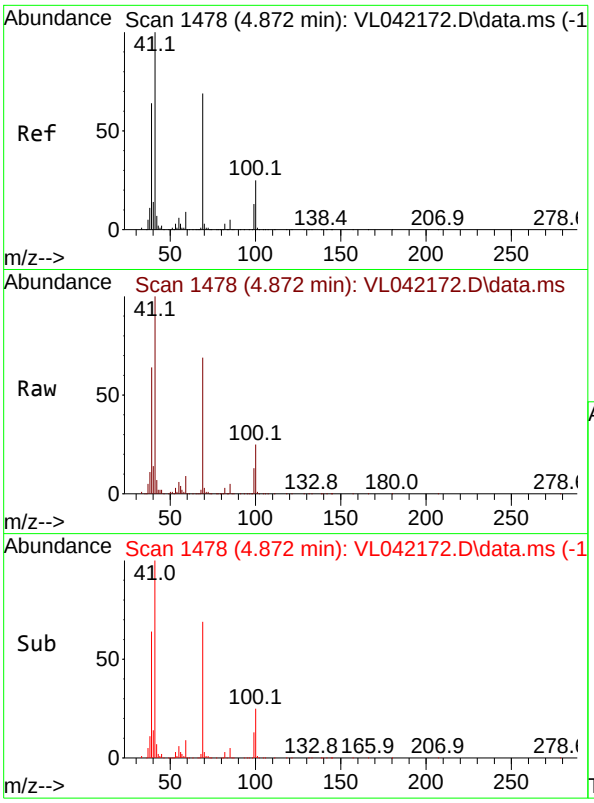




#42
Bromodichloromethane
Concen: 9.822 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 83 Resp: 418887

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.1 | 50.5 | 75.7 |
| 127 | 7.4 | 5.9 | 8.9 |



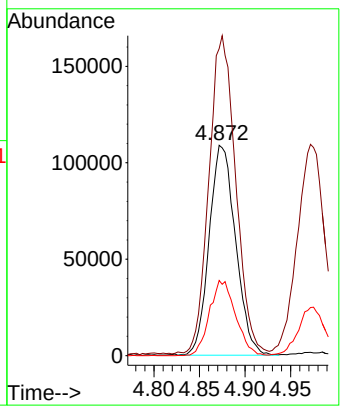


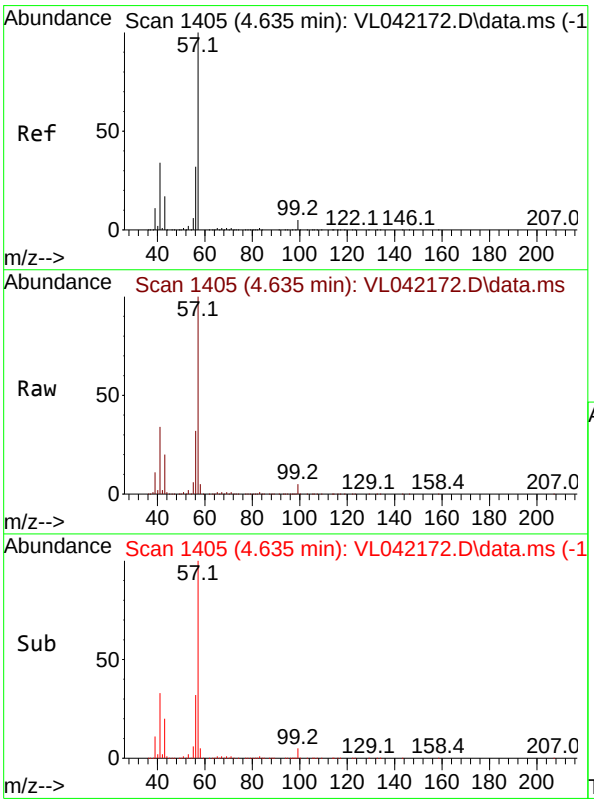

#43
Methyl Methacrylate
Concen: 9.618 ppbv
RT: 4.872 min Scan# 14
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion: 69 Resp: 219399

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 154.7 | 123.8 | 185.6 |
| 100 | 35.5 | 28.4 | 42.6 |

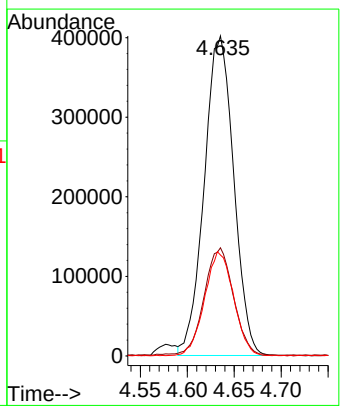


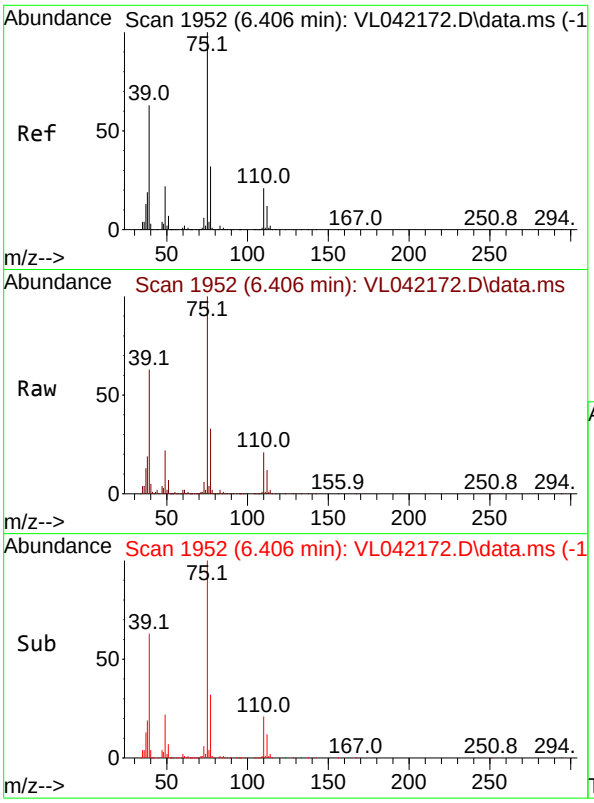




#44
2,2,4-Trimethylpentane
Concen: 9.600 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 57 Resp: 876649

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 33.5 | 26.8 | 40.2 |
| 56 | 32.0 | 25.6 | 38.4 |



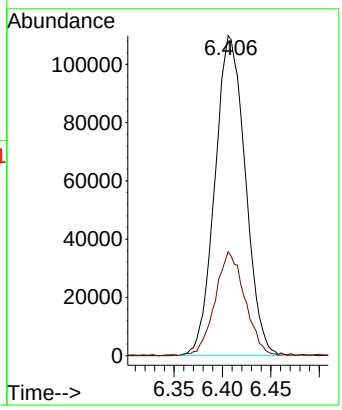


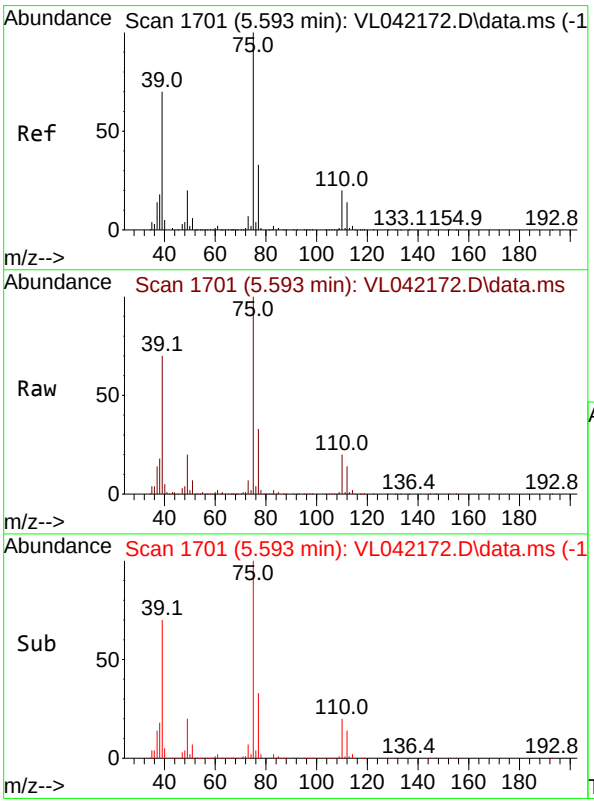

#45
t-1,3-Dichloropropene
Concen: 9.746 ppbv
RT: 6.406 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion: 75 Resp: 239180

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.5 | 26.0 | 39.0 |

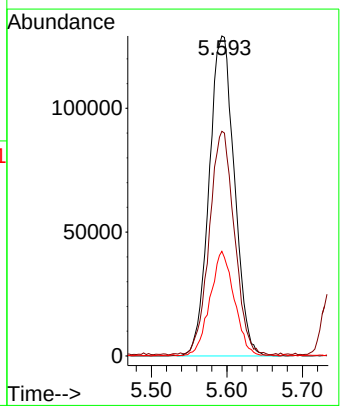


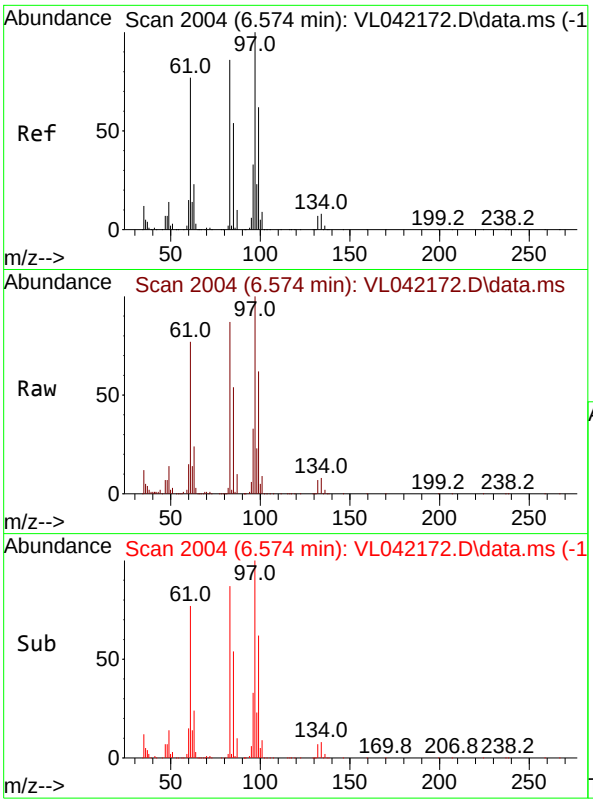




#46
cis-1,3-Dichloropropene
Concen: 9.973 ppbv
RT: 5.593 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 75 Resp: 300021

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 39 | 69.7 | 55.8 | 83.6 |
| 77 | 32.5 | 26.0 | 39.0 |



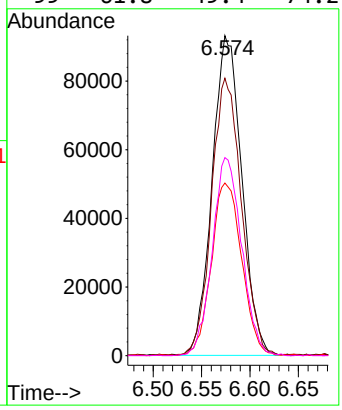


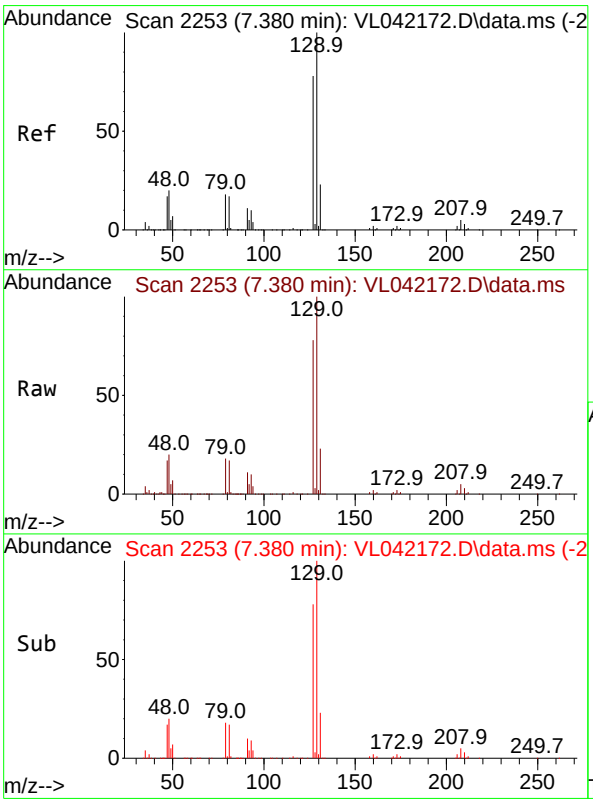

#47
1,1,2-Trichloroethane
Concen: 9.526 ppbv
RT: 6.574 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion: 97 Resp: 198176

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 86.5 | 69.2 | 103.8 |
| 85 | 53.9 | 43.1 | 64.7 |
| 99 | 61.8 | 49.4 | 74.2 |

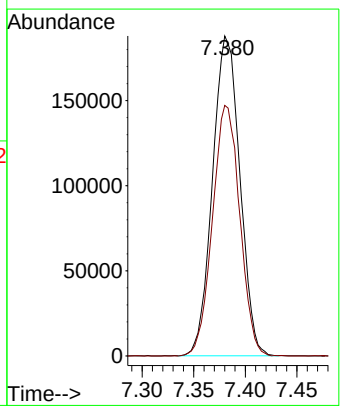


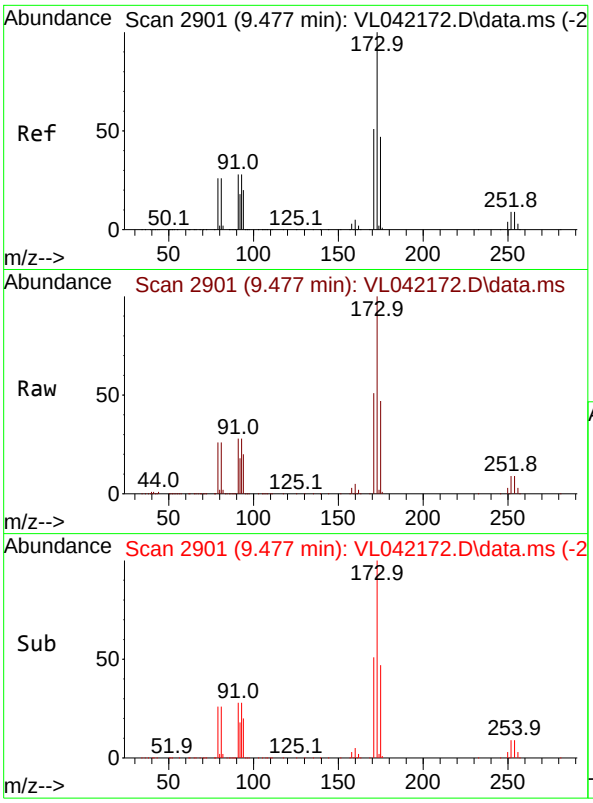




#48
Dibromochloromethane
Concen: 9.828 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:129 Resp: 346499

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.1 | 39.1 | 117.2 |



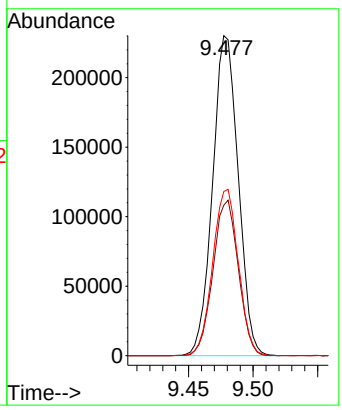


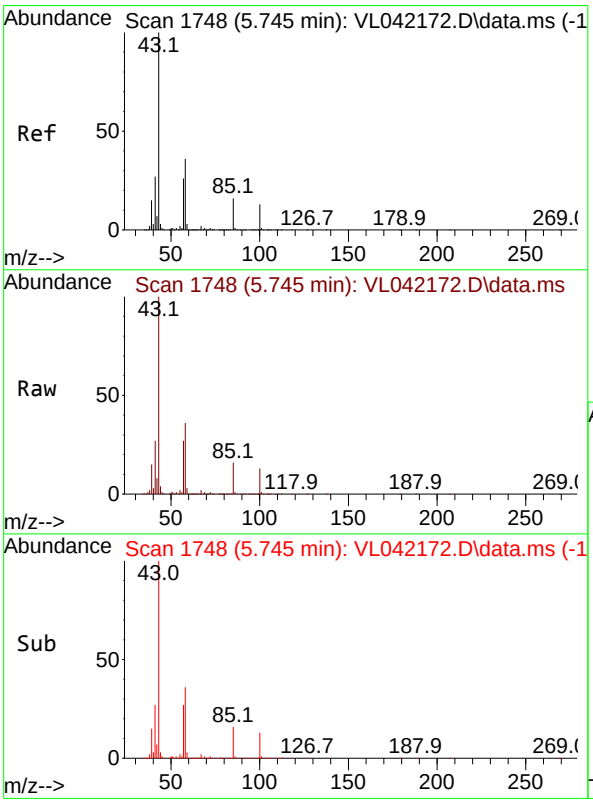

#49
Bromoform
Concen: 10.021 ppbv
RT: 9.477 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion:173 Resp: 317189

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.2 | 38.6 | 57.8 |
| 171 | 52.2 | 41.8 | 62.6 |

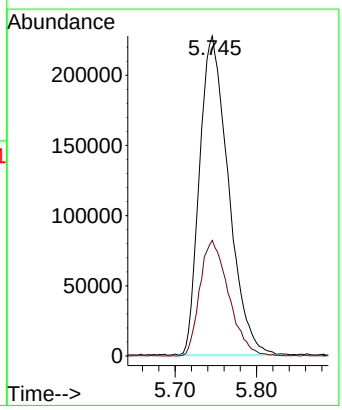


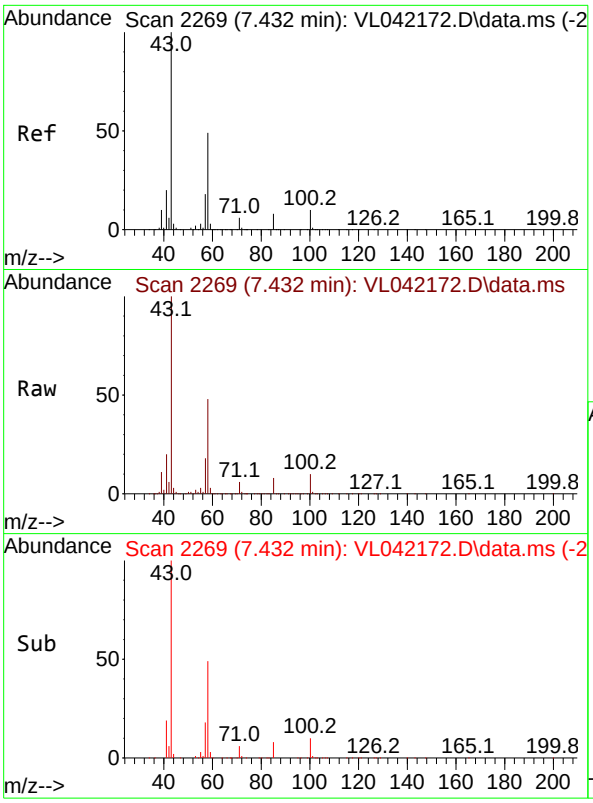




#50
4-Methyl-2-Pentanone
Concen: 8.934 ppbv
RT: 5.745 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 43 Resp: 559800

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 36.3 | 29.0 | 43.6 |



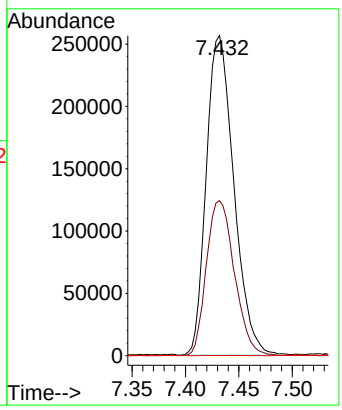


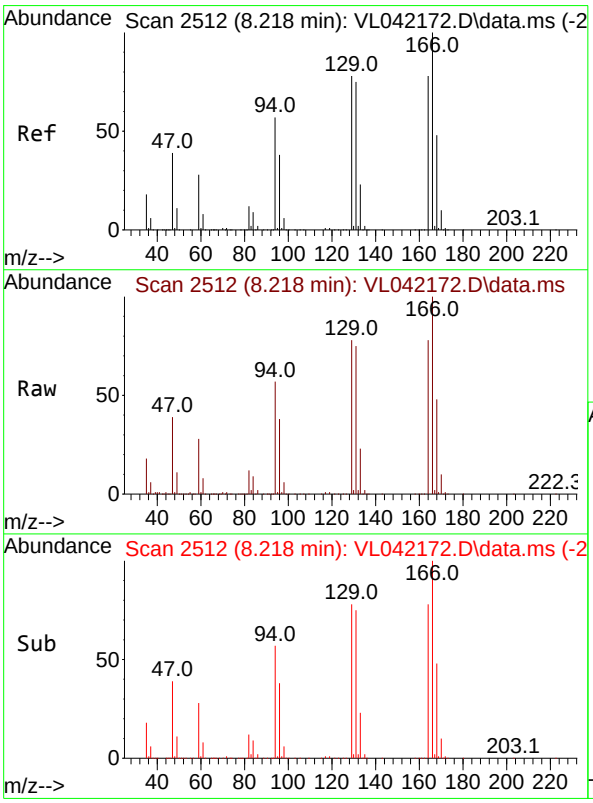

#51
2-Hexanone
Concen: 8.848 ppbv
RT: 7.432 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion: 43 Resp: 460013

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 49.6 | 39.7 | 59.5 |
| 98 | 0.1 | 0.1 | 0.1# |

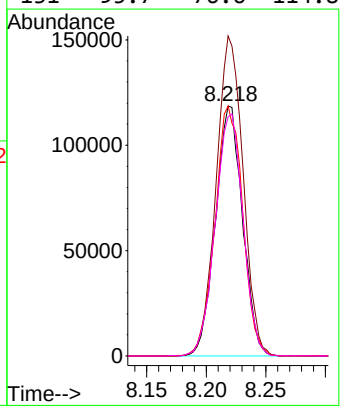


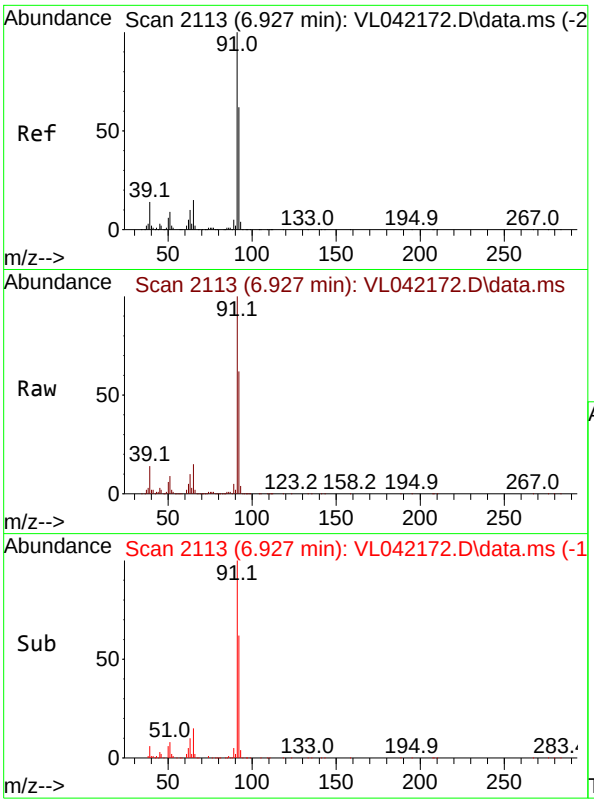




#52
Tetrachloroethene
Concen: 8.722 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:164 Resp: 186912

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 128.1 | 102.5 | 153.7 |
| 129 | 99.8 | 79.8 | 119.8 |
| 131 | 95.7 | 76.6 | 114.8 |



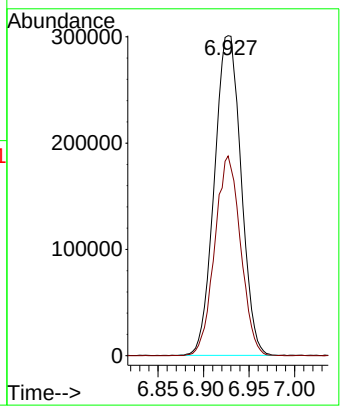


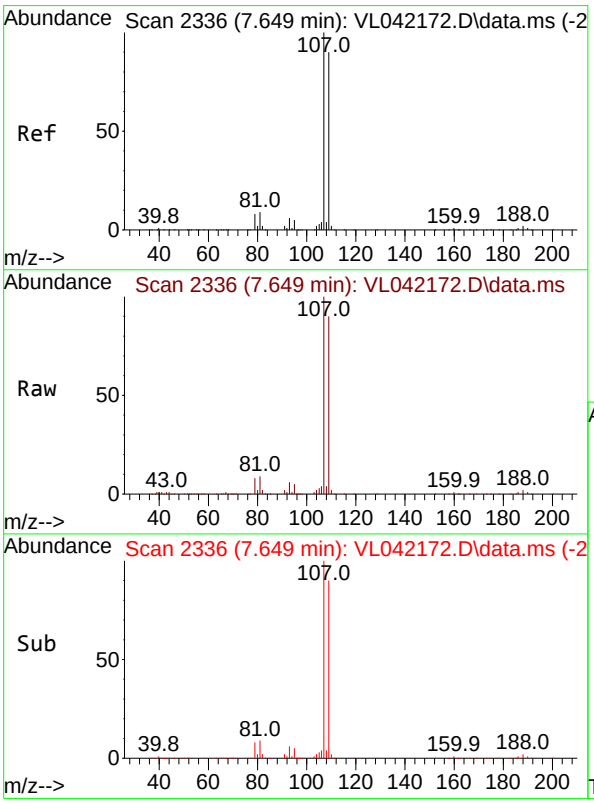

#53
Toluene
Concen: 9.576 ppbv
RT: 6.927 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion: 91 Resp: 613378

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 60.5 | 48.4 | 72.6 |

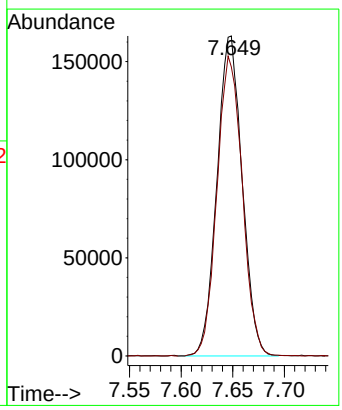


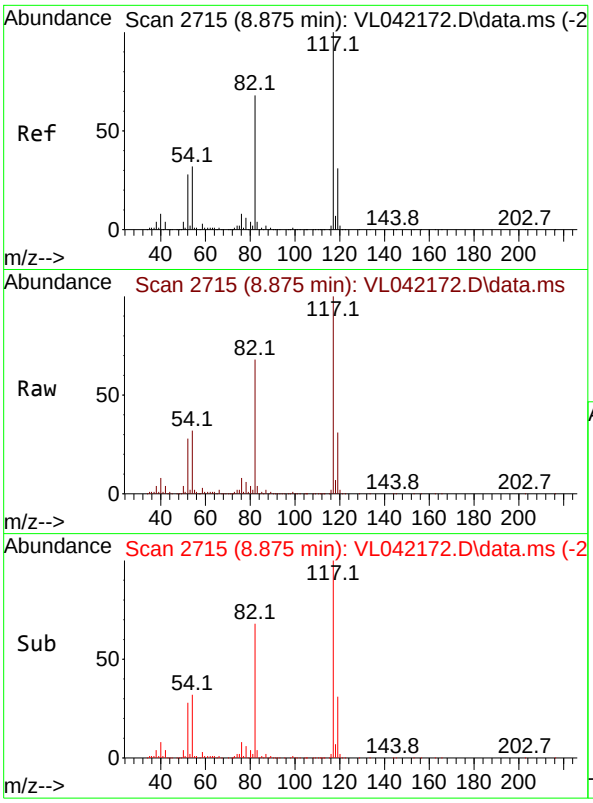




#54
1,2-Dibromoethane
Concen: 9.536 ppbv
RT: 7.649 min Scan# 2336
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:107 Resp: 276797

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 90.3 | 72.2 | 108.4 |



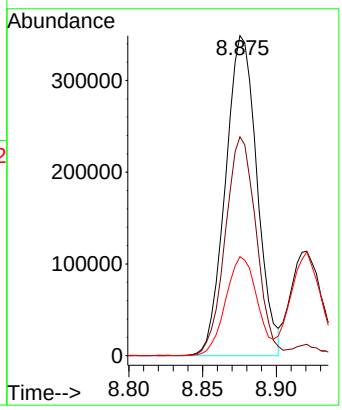


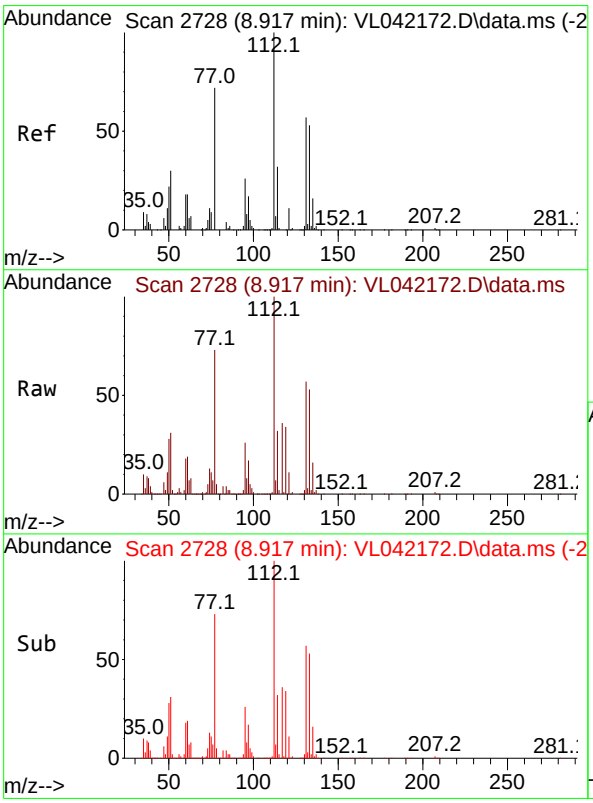

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion:117 Resp: 519536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 69.7 | 55.8 | 83.6 |
| 119 | 31.9 | 25.5 | 38.3 |

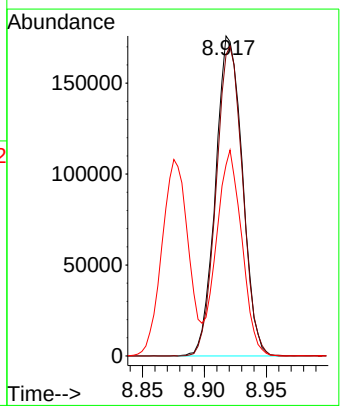


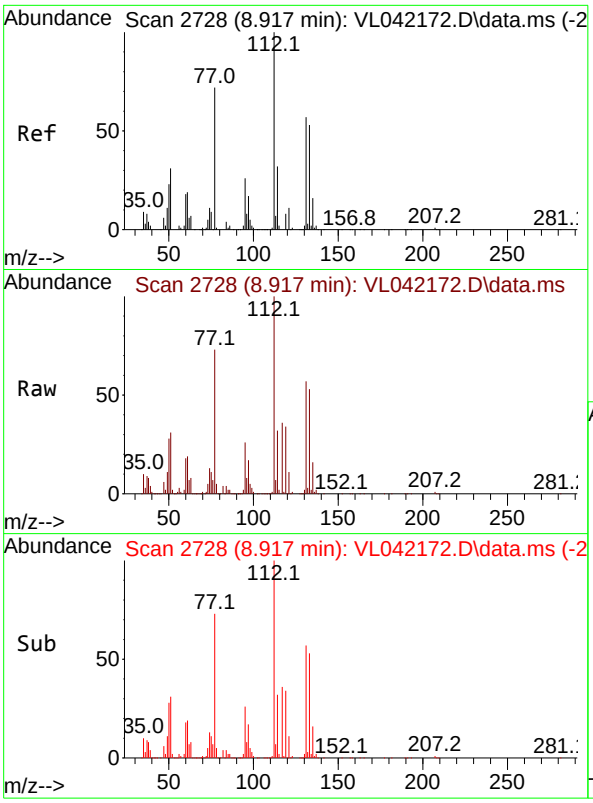




#56
1,1,1,2-Tetrachloroethane
Concen: 9.268 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:131 Resp: 265037

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.7 | 76.6 | 114.8 |
| 119 | 62.2 | 49.8 | 74.6 |



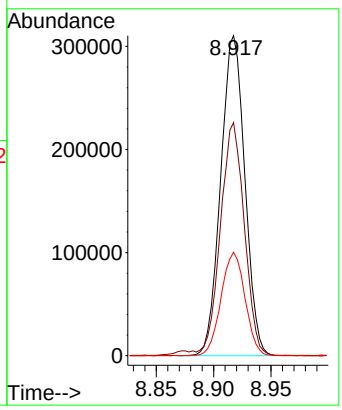


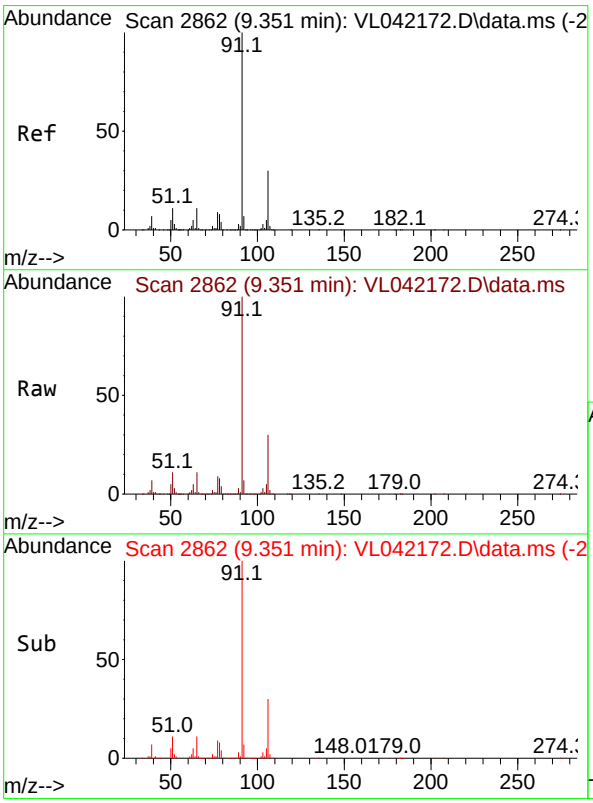

#57
Chlorobenzene
Concen: 9.223 ppbv
RT: 8.917 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion:112 Resp: 454511

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 72.7 | 58.2 | 87.2 |
| 114 | 32.3 | 29.1 | 35.5 |

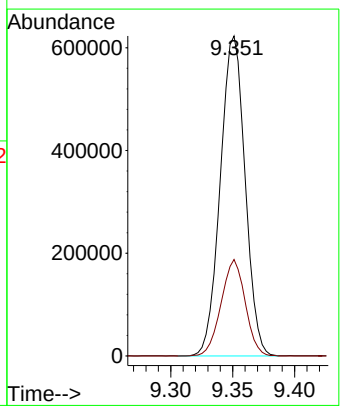


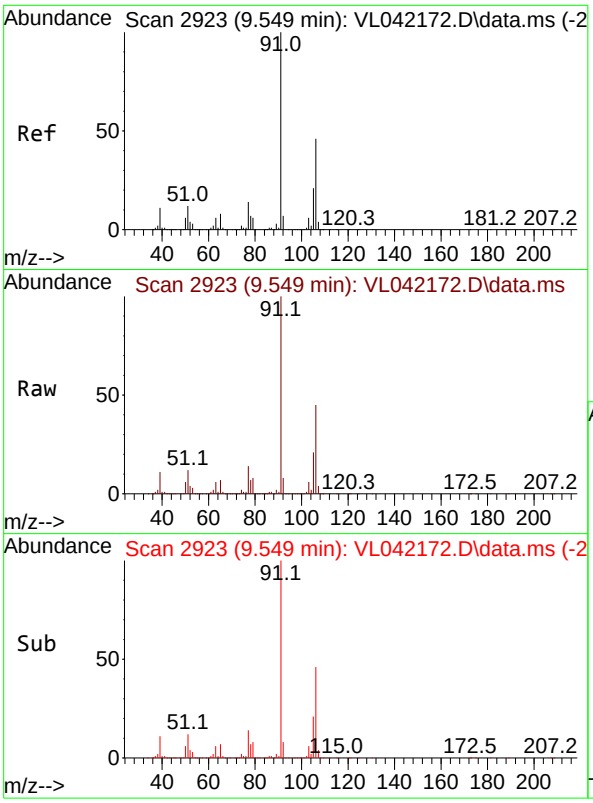




#58
Ethyl Benzene
Concen: 9.406 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 91 Resp: 868003

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.2 | 24.2 | 36.2 |



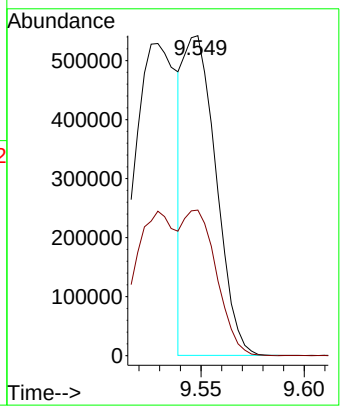


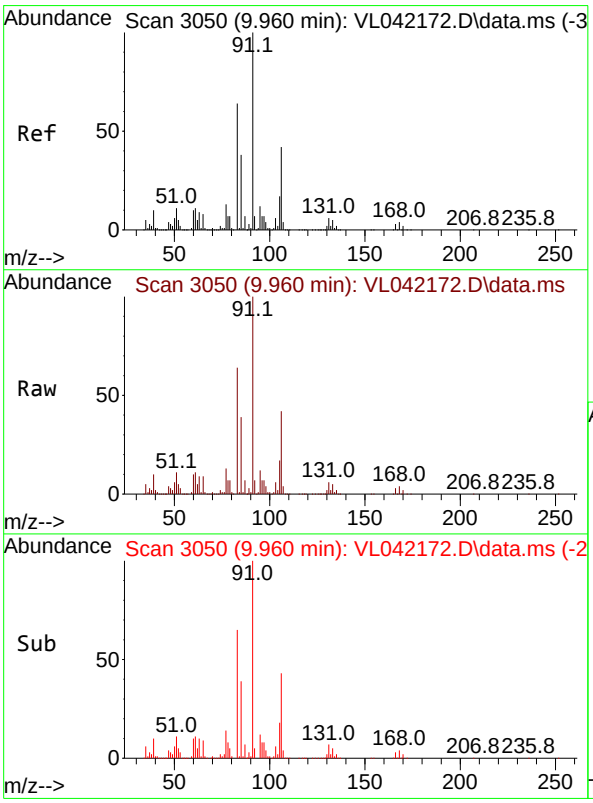

#59
m/p-Xylene
Concen: 8.071 ppbv
RT: 9.549 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion: 91 Resp: 595445

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 105.0 | 36.4 | 54.6# |

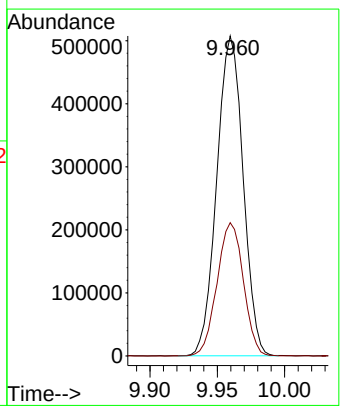


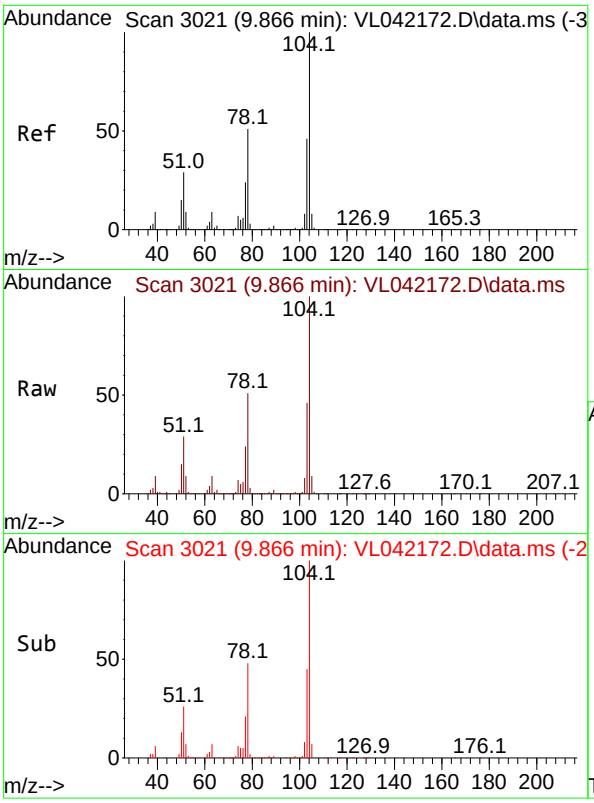




#60
o-Xylene
Concen: 9.340 ppbv
RT: 9.960 min Scan# 3050
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 91 Resp: 689933

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 41.7 | 20.8 | 62.5 |



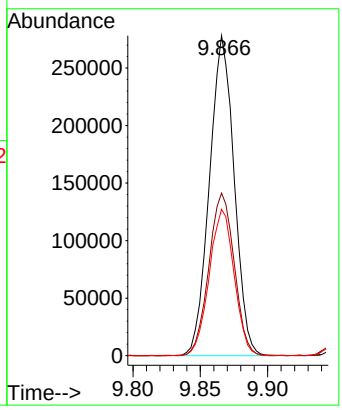


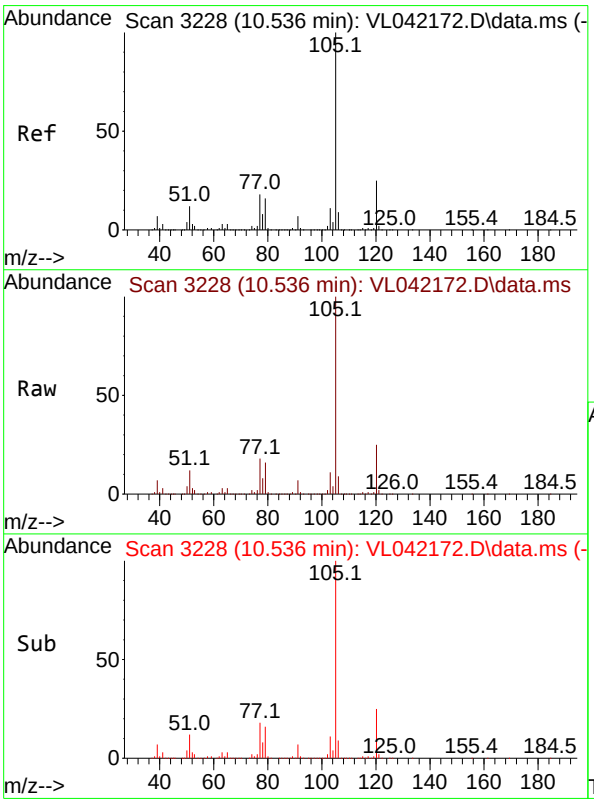

#61
Styrene
Concen: 9.706 ppbv
RT: 9.866 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion:104 Resp: 354697

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 52.2 | 41.8 | 62.6 |
| 103 | 46.2 | 37.0 | 55.4 |

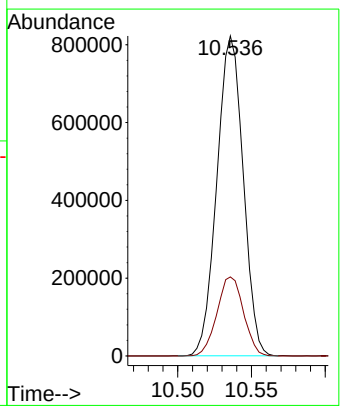


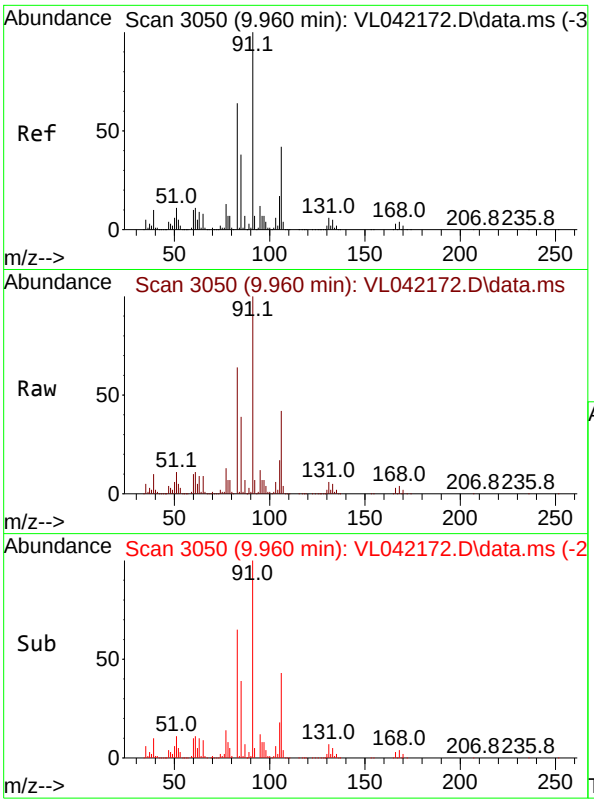




#62
Isopropylbenzene
Concen: 9.227 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:105 Resp: 1019255

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 24.9 | 19.9 | 29.9 |



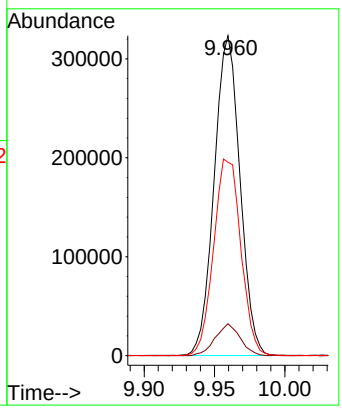


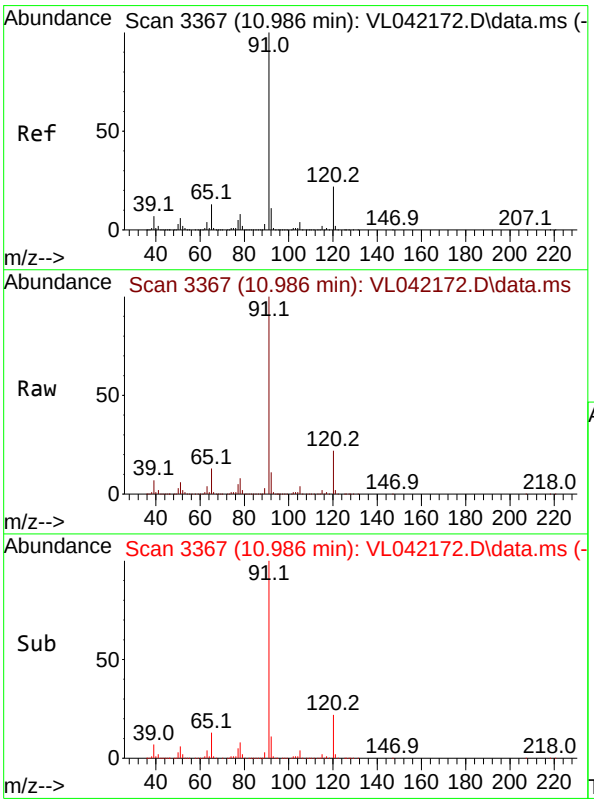

#63
1,1,2,2-Tetrachloroethane
Concen: 9.210 ppbv
RT: 9.960 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion: 83 Resp: 413392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.6 | 4.8 | 14.4 |
| 85 | 65.0 | 32.5 | 97.5 |

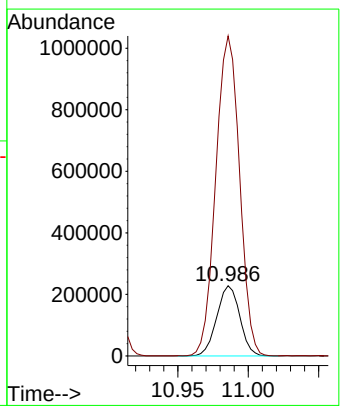


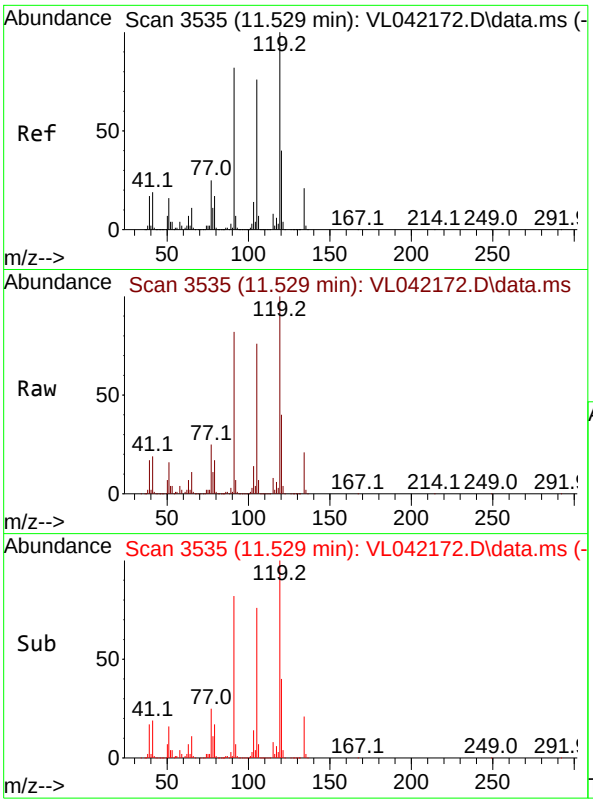




#64
n-propylbenzene
Concen: 9.122 ppbv
RT: 10.986 min Scan# 3367
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:120 Resp: 259405

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 471.1 | 376.9 | 565.3 |



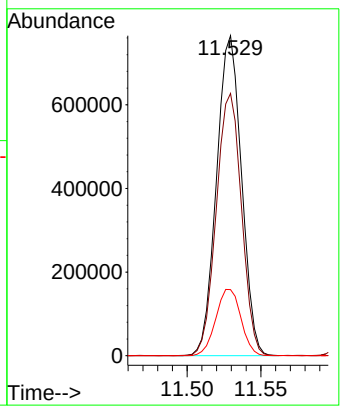


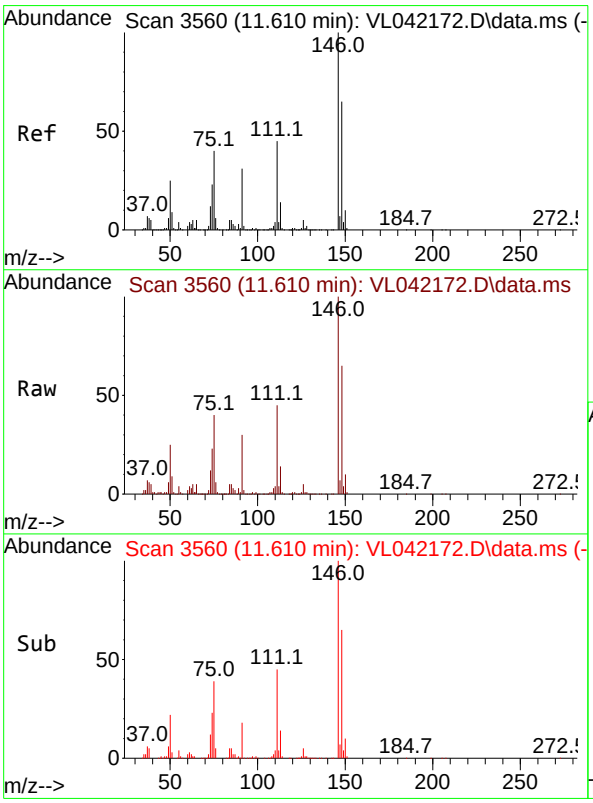

#65
tert-Butylbenzene
Concen: 8.828 ppbv
RT: 11.529 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion:119 Resp: 901951

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 82.5 | 66.0 | 99.0 |
| 134 | 20.9 | 16.7 | 25.1 |

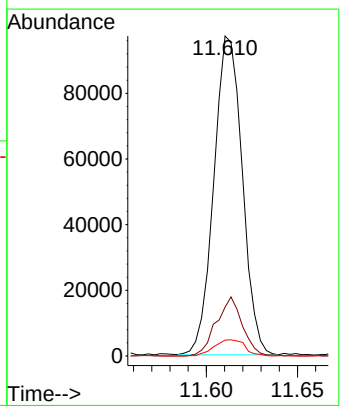


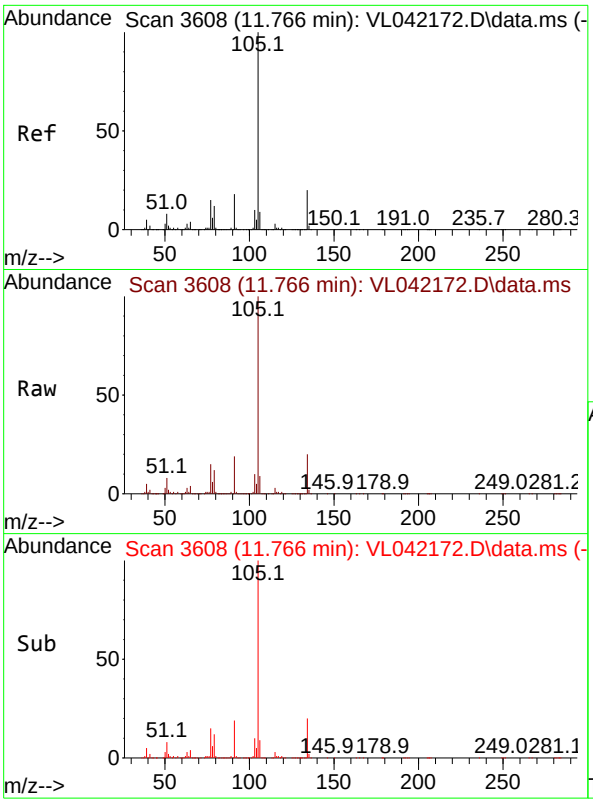




#66
Benzyl Chloride
Concen: 9.724 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 91 Resp: 105411

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 17.2 | 13.8 | 20.6 |
| 128 | 5.6 | 4.5 | 6.7 |



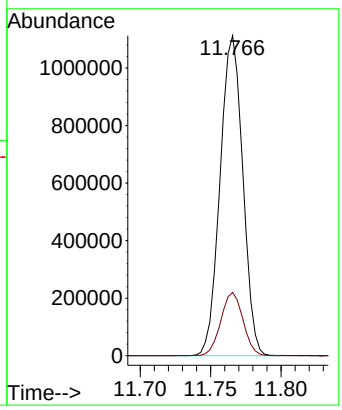


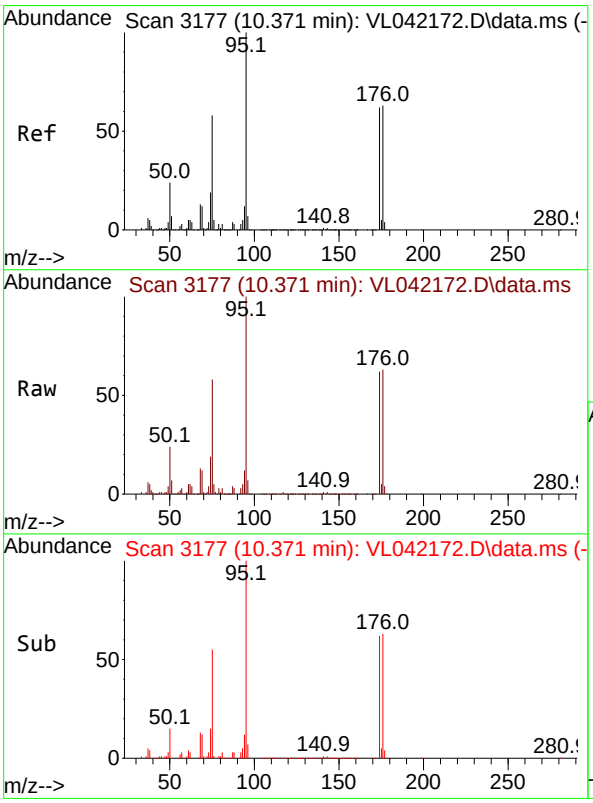

#67
sec-Butylbenzene
Concen: 8.796 ppbv
RT: 11.766 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion:105 Resp: 1249106

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.4 | 15.5 | 23.3 |

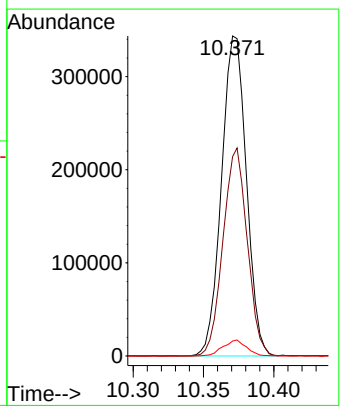


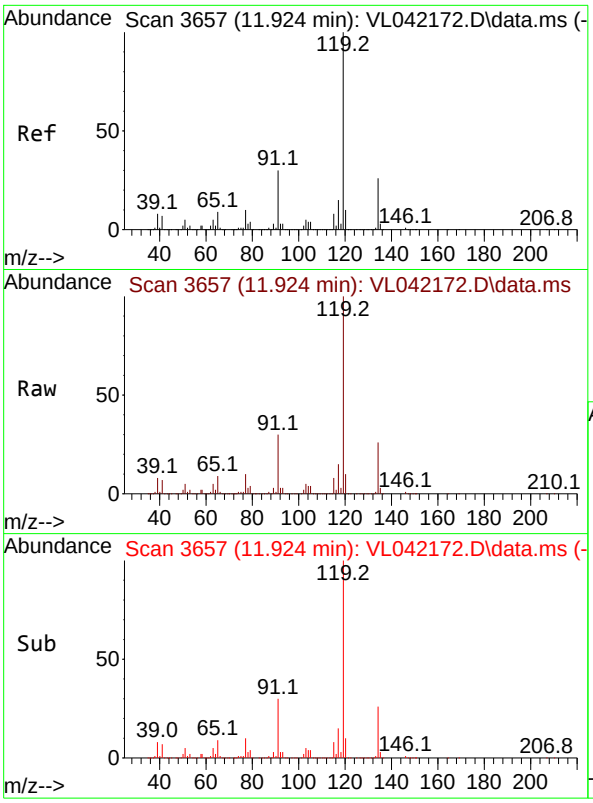




#68
1-Bromo-4-Fluorobenzene
Concen: 9.901 ppbv
RT: 10.371 min Scan# 3177
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 95 Resp: 422410

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 63.3 | 50.6 | 76.0 |
| 175 | 4.7 | 3.8 | 5.6 |



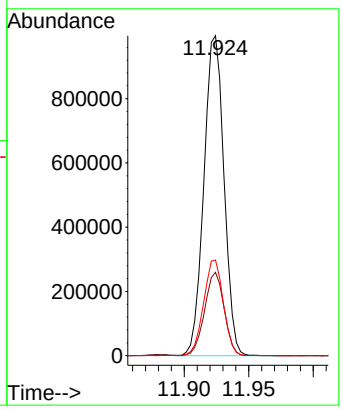


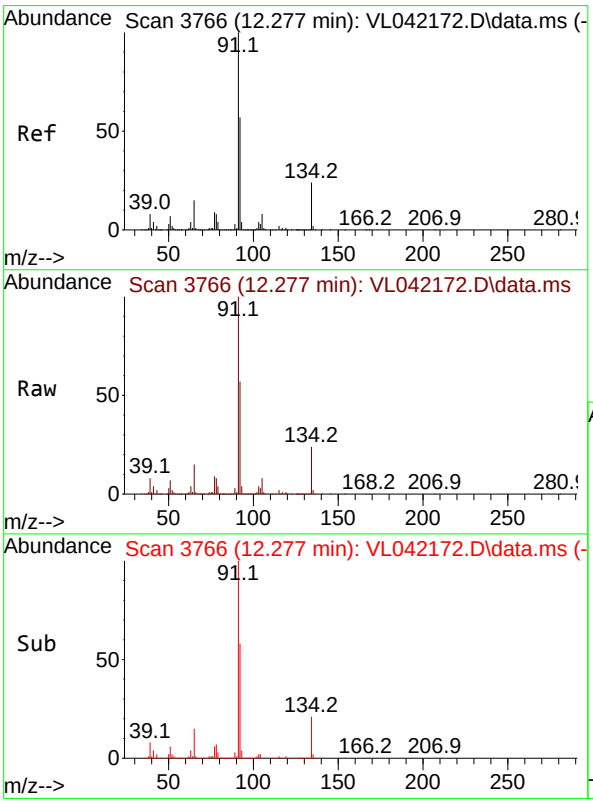

#69
p-Isopropyltoluene
Concen: 8.830 ppbv
RT: 11.924 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion:119 Resp: 1079675

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.5 | 20.4 | 30.6 |
| 91 | 29.6 | 23.7 | 35.5 |

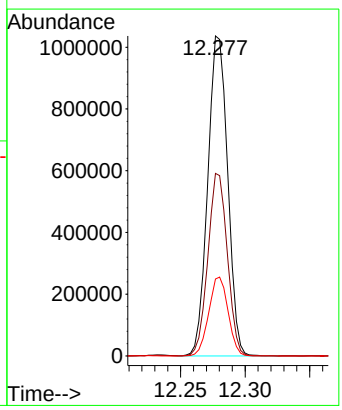


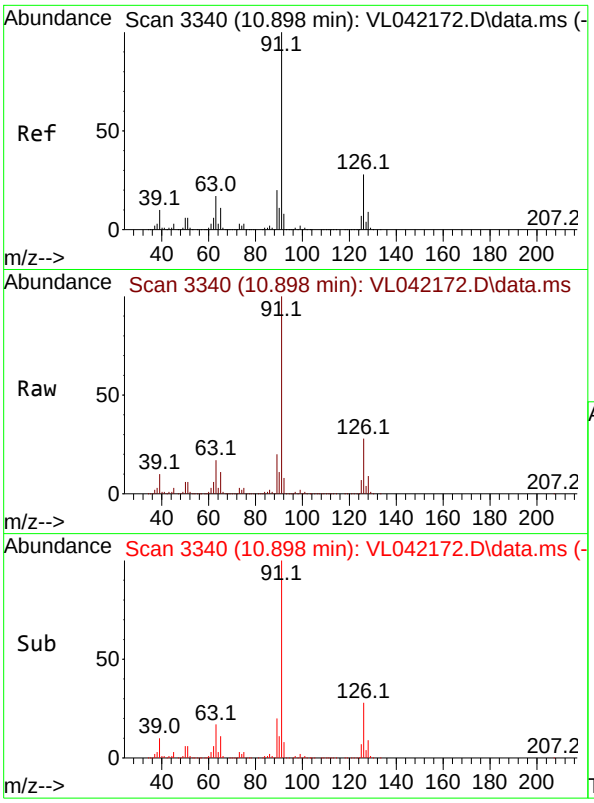




#70
n-Butylbenzene
Concen: 8.879 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 91 Resp: 1110351

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 56.1 | 44.9 | 67.3 |
| 134 | 24.0 | 19.2 | 28.8 |



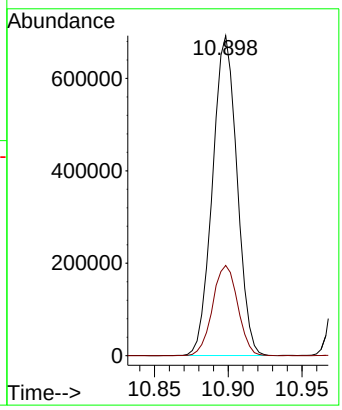


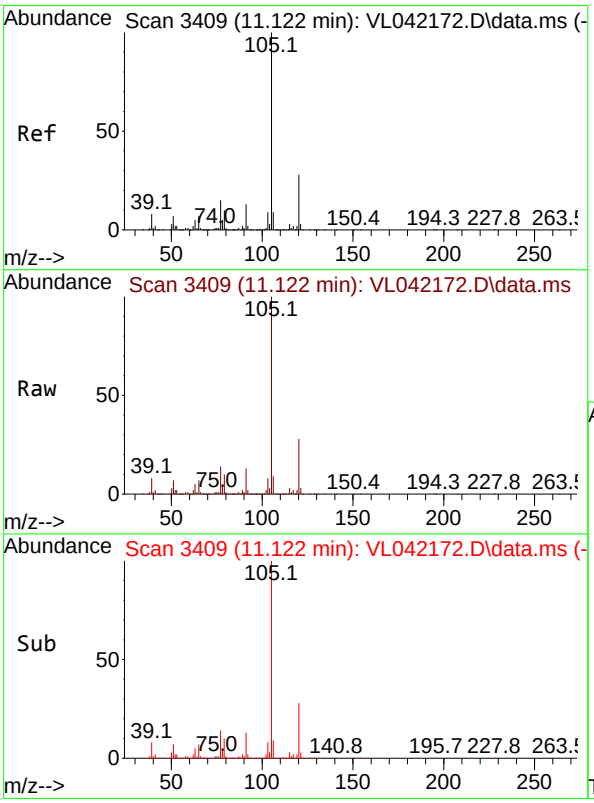

#71
2-Chlorotoluene
Concen: 9.320 ppbv
RT: 10.898 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion: 91 Resp: 799102

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 29.0 | 11.6 | 46.4 |

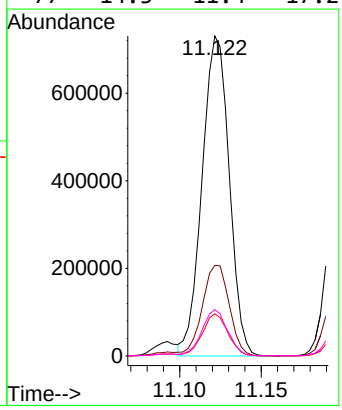


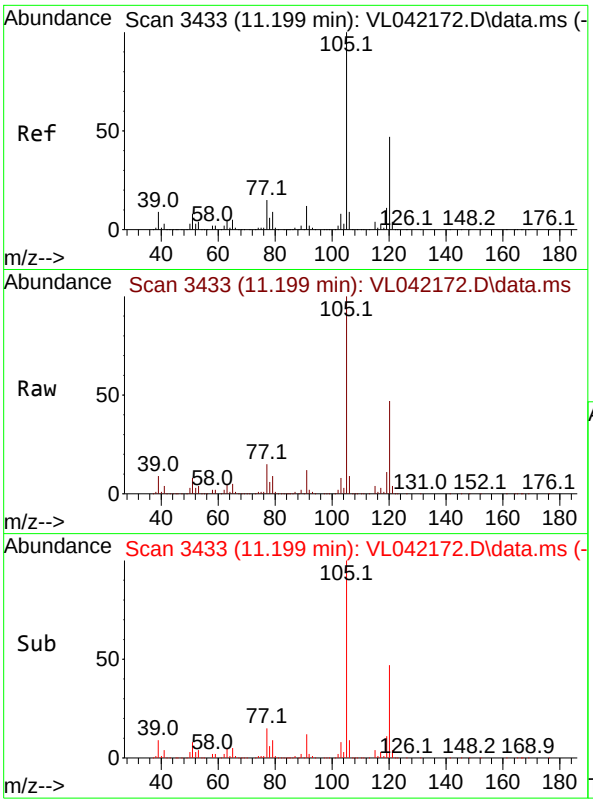




#72
4-Ethyltoluene
Concen: 9.200 ppbv
RT: 11.122 min Scan# 3409
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:105 Resp: 846232

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 29.2 | 23.4 | 35.0 |
| 91 | 12.9 | 10.3 | 15.5 |
| 77 | 14.3 | 11.4 | 17.2 |



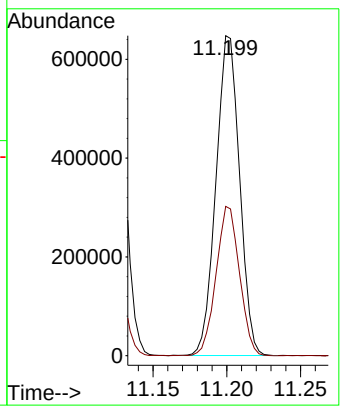


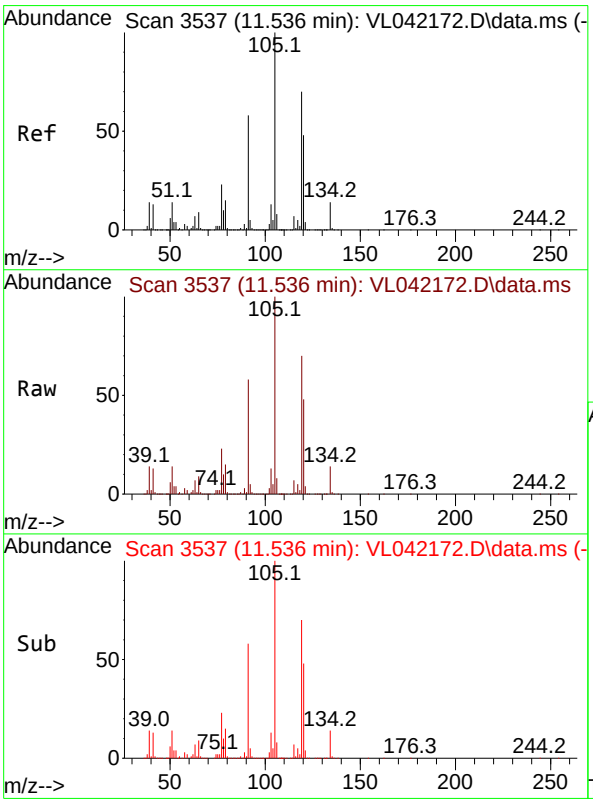

#73
1,3,5-Trimethylbenzene
Concen: 8.970 ppbv
RT: 11.199 min Scan# 34
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion:105 Resp: 720566

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.7 | 37.4 | 56.0 |

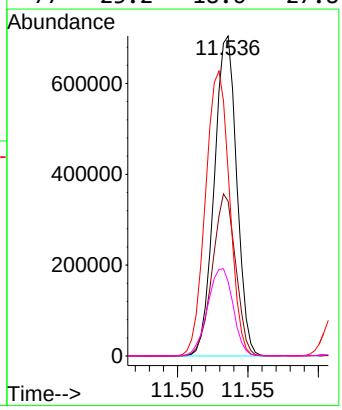


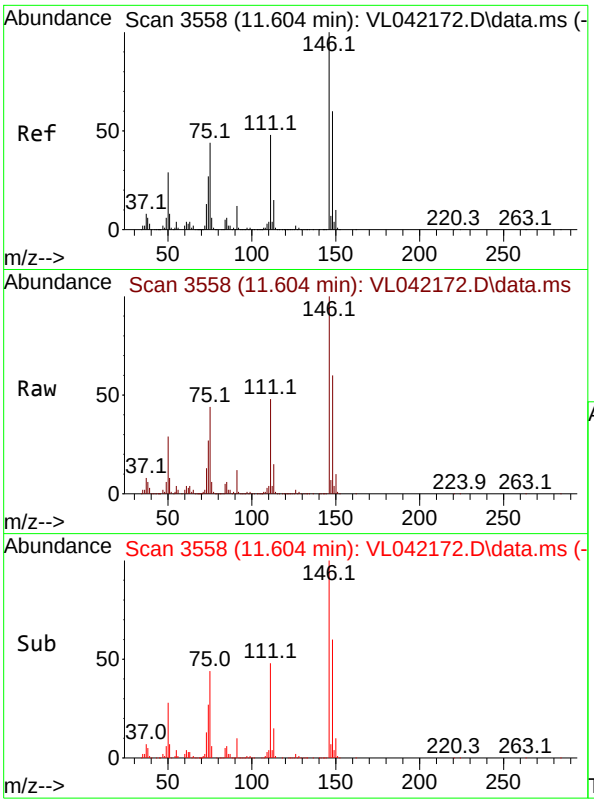




#74
1,2,4-Trimethylbenzene
Concen: 8.480 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:105 Resp: 784745

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.3 | 38.6 | 58.0 |
| 91 | 57.7 | 46.2 | 69.2 |
| 77 | 23.2 | 18.6 | 27.8 |



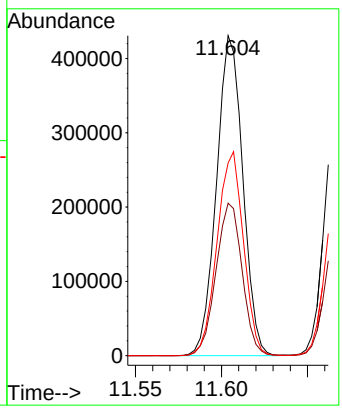


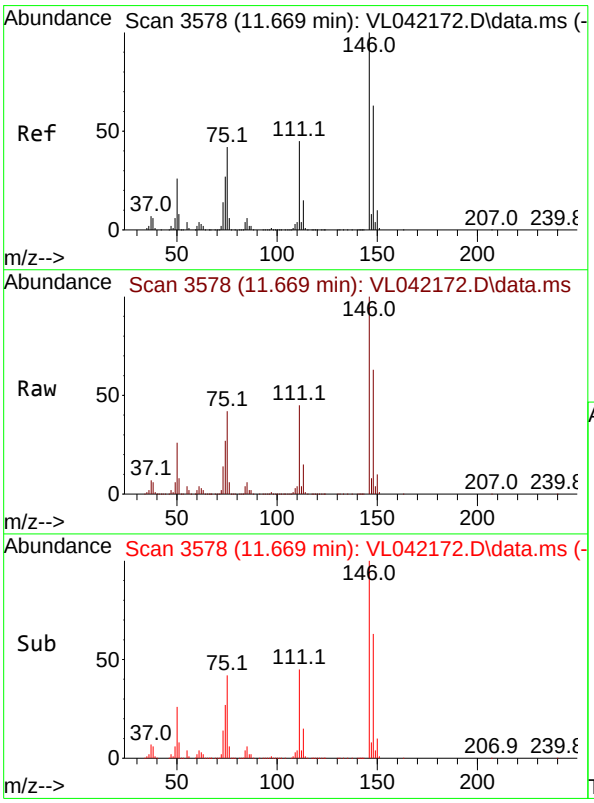

#75
1,3-Dichlorobenzene
Concen: 9.028 ppbv
RT: 11.604 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion:146 Resp: 458226

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 47.5 | 23.8 | 71.2 |
| 148 | 63.9 | 31.9 | 95.9 |

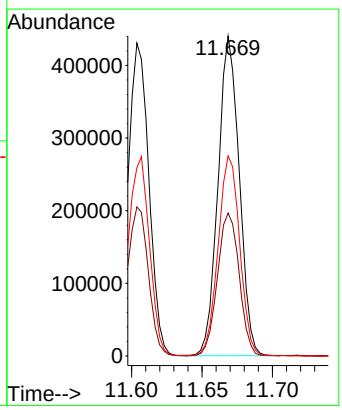


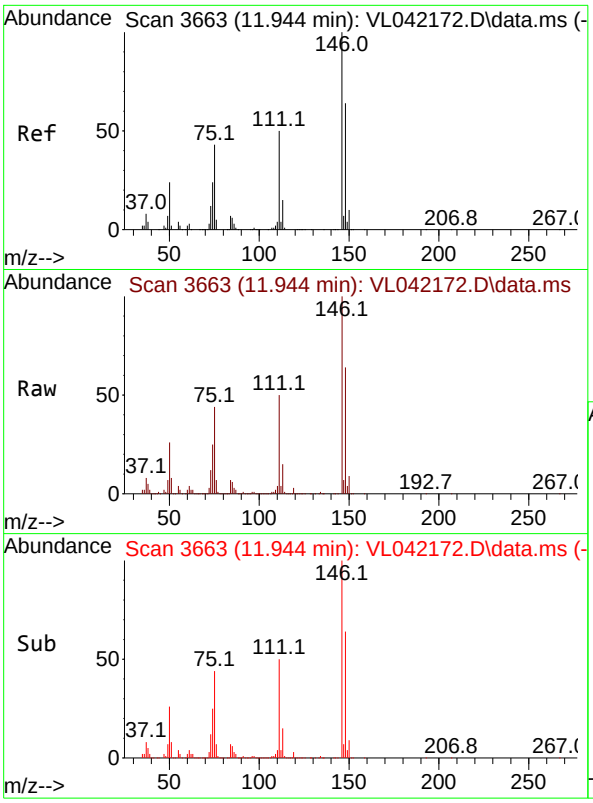




#76
1,4-Dichlorobenzene
Concen: 9.134 ppbv
RT: 11.669 min Scan# 3578
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:146 Resp: 461371

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 46.0 | 23.0 | 69.0 |
| 148 | 63.8 | 31.9 | 95.7 |



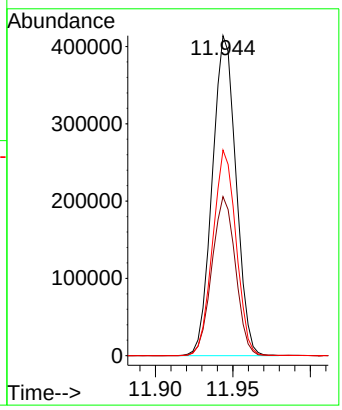


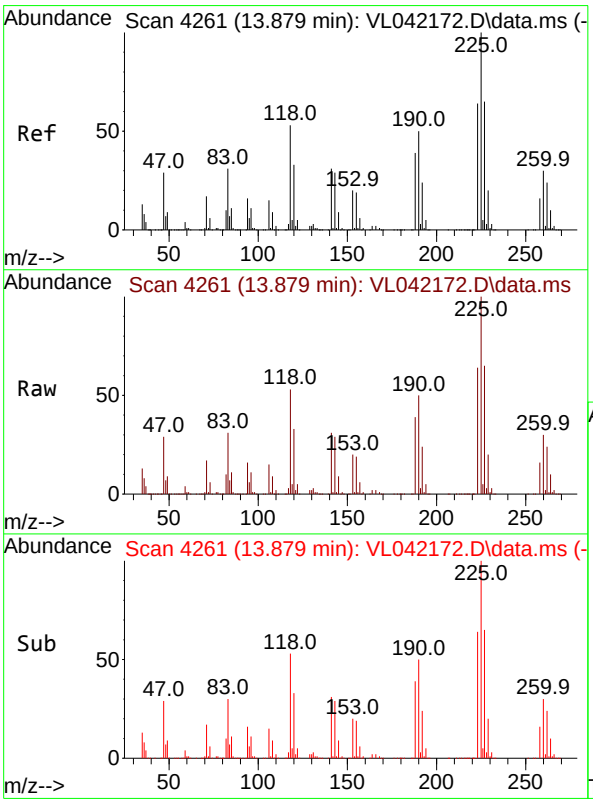

#77
1,2-Dichlorobenzene
Concen: 8.933 ppbv
RT: 11.944 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion:146 Resp: 441473

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 49.5 | 24.8 | 74.3 |
| 148 | 63.2 | 31.6 | 94.8 |

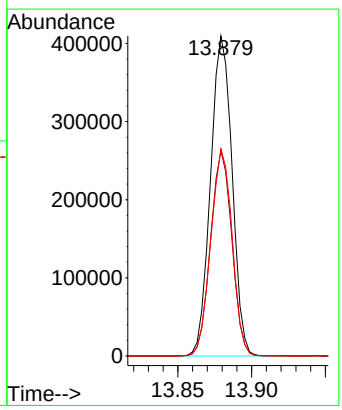


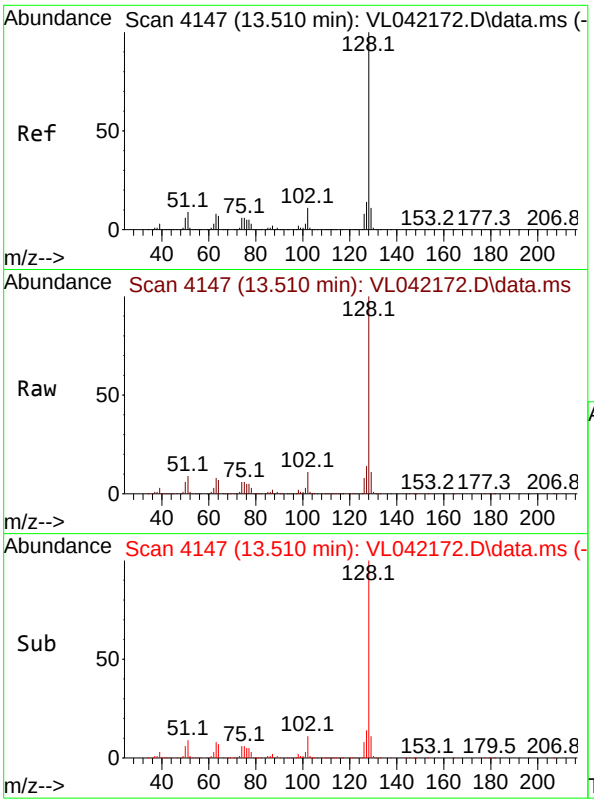




#78
Hexachloro-1,3-Butadiene
Concen: 8.284 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:225 Resp: 416735

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.3 | 50.6 | 76.0 |
| 227 | 64.0 | 51.2 | 76.8 |



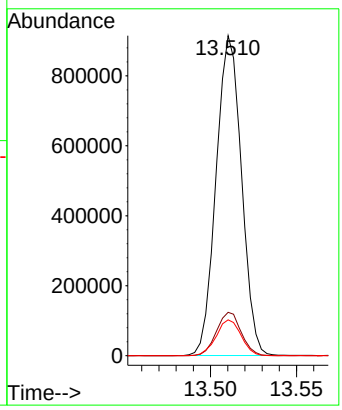


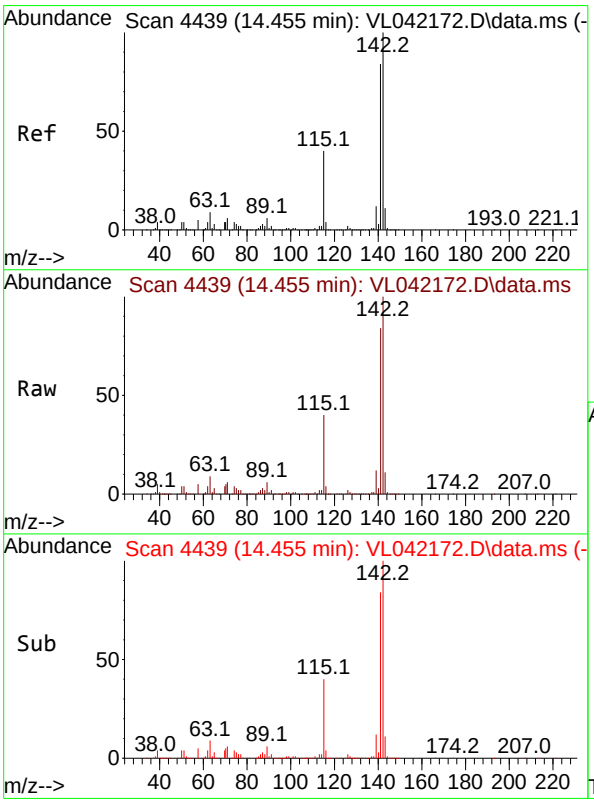

#79
Naphthalene
Concen: 9.271 ppbv
RT: 13.510 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion:128 Resp: 938470

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.5 | 10.8 | 16.2 |
| 129 | 11.2 | 9.0 | 13.4 |

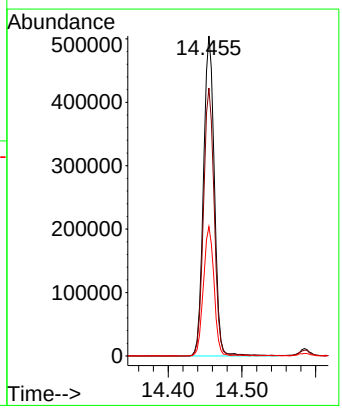


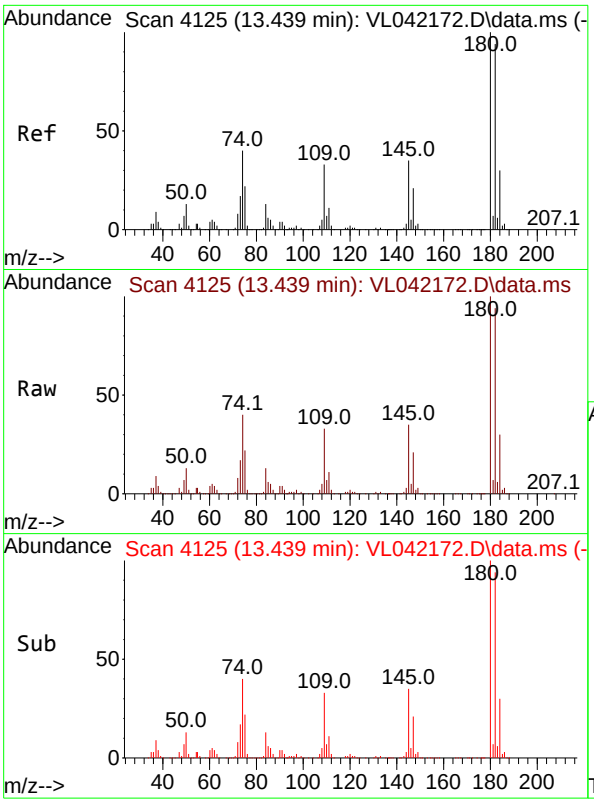




#80
Naphthalene,2-methyl-
Concen: 10.436 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:142 Resp: 514394

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 82.9 | 66.3 | 99.5 |
| 115 | 39.5 | 31.6 | 47.4 |



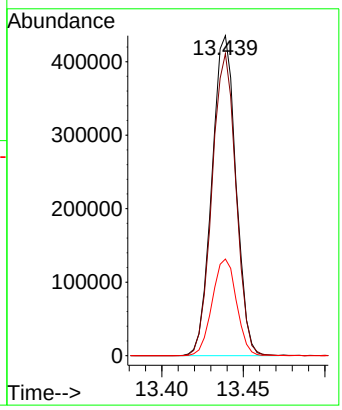



#81
1,2,4-Trichlorobenzene
Concen: 9.561 ppbv
RT: 13.439 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion:180 Resp: 446420

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.9 | 75.1 | 112.7 |
| 184 | 30.5 | 24.4 | 36.6 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042173.D
Acq On : 27 Mar 2025 08:59
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Quant Time: Mar 28 01:32:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 2.784 | 49 | 188395 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.952 | 114 | 546394 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.875 | 117 | 504538 | 10.000 | ppbv | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.370 | 95 | 417532 | 10.077 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 100.800% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.496 | 85 | 55859 | 2.008 | ppbv | | 99 |
| 3) Chlorodifluoromethane | 1.473 | 51 | 57045 | 2.007 | ppbv | | 99 |
| 4) Chloromethane | 1.531 | 50 | 23293 | 2.049 | ppbv | | 94 |
| 5) Vinyl Chloride | 1.576 | 62 | 21989 | 1.897 | ppbv | | 99 |
| 6) Bromomethane | 1.664 | 94 | 10027 | 1.946 | ppbv | | 98 |
| 7) Chloroethane | 1.703 | 64 | 8413 | 1.844 | ppbv | | 92 |
| 8) Dichlorotetrafluoroethane | 1.551 | 85 | 48008 | 2.027 | ppbv | | 98 |
| 9) Propene | 1.483 | 41 | 26295 | 2.054 | ppbv | | 94 |
| 10) Heptane | 4.972 | 43 | 71466 | 2.063 | ppbv | | 99 |
| 11) Trichlorofluoromethane | 1.874 | 101 | 55754 | 2.060 | ppbv | | 99 |
| 12) 1,1,2-Trichlorotrifluo... | 2.136 | 101 | 44761 | 2.012 | ppbv | | 98 |
| 13) Ethanol | 1.719 | 45 | 1827 | 1.822 | ppbv | # | 49 |
| 14) Bromoethene | 1.780 | 108 | 17323 | 2.033 | ppbv | # | 89 |
| 15) Acetone | 1.832 | 43 | 55365 | 2.101 | ppbv | | 95 |
| 16) 1,3-Butadiene | 1.606 | 39 | 22894 | 1.932 | ppbv | | 95 |
| 17) tert-Butyl alcohol | 2.039 | 59 | 66174 | 2.016 | ppbv | | 100 |
| 18) 1,1-Dichloroethene | 2.030 | 96 | 21103 | 2.029 | ppbv | | 95 |
| 19) Isopropyl Alcohol | 1.884 | 45 | 27804 | 1.870 | ppbv | # | 35 |
| 20) Methylene Chloride | 2.059 | 84 | 20518 | 2.091 | ppbv | | 96 |
| 21) Allyl Chloride | 2.094 | 41 | 38425 | 2.068 | ppbv | | 99 |
| 22) trans-1,2-Dichloroethene | 2.337 | 96 | 23384 | 1.924 | ppbv | | 92 |
| 23) Vinyl Acetate | 2.460 | 43 | 20736 | 1.894 | ppbv | # | 97 |
| 24) 1,1-Dichloroethane | 2.405 | 63 | 44740 | 2.008 | ppbv | | 99 |
| 25) Ethyl Acetate | 2.832 | 43 | 139516 | 2.040 | ppbv | | 99 |
| 26) Hexane | 2.823 | 57 | 52095 | 1.972 | ppbv | | 92 |
| 27) Carbon Disulfide | 2.146 | 76 | 57969 | 2.047 | ppbv | # | 76 |
| 28) Methyl tert-Butyl Ether | 2.437 | 73 | 33703 | 2.049 | ppbv | | 99 |
| 29) Chloroform | 2.845 | 83 | 78043 | 2.019 | ppbv | | 95 |
| 30) Cyclohexane | 3.852 | 84 | 45641 | 1.989 | ppbv | | 99 |
| 31) cis-1,2-Dichloroethene | 2.719 | 61 | 53713 | 2.003 | ppbv | | 96 |
| 32) 1,1,1-Trichloroethane | 3.363 | 97 | 81070 | 1.833 | ppbv | | 99 |
| 34) 2-Butanone | 2.554 | 43 | 84157 | 2.124 | ppbv | | 99 |
| 35) Carbon Tetrachloride | 3.758 | 117 | 81735 | 1.944 | ppbv | | 96 |
| 36) Benzene | 3.651 | 78 | 110727 | 2.044 | ppbv | | 97 |
| 37) 1,2-Dichloroethane | 3.214 | 62 | 61476 | 1.982 | ppbv | | 97 |
| 38) Trichloroethene | 4.541 | 130 | 43501 | 1.924 | ppbv | | 97 |
| 39) 1,2-Dichloropropane | 4.308 | 63 | 39912 | 2.023 | ppbv | | 93 |
| 40) 1,4-Dioxane | 4.587 | 88 | 14008 | 1.369 | ppbv | # | 2 |
| 41) Tetrahydrofuran | 3.056 | 42 | 47262 | 2.097 | ppbv | | 99 |
| 42) Bromodichloromethane | 4.483 | 83 | 87640 | 2.050 | ppbv | | 99 |
| 43) Methyl Methacrylate | 4.878 | 69 | 44624 | 1.952 | ppbv | | 97 |
| 44) 2,2,4-Trimethylpentane | 4.632 | 57 | 188282 | 2.057 | ppbv | | 100 |
| 45) t-1,3-Dichloropropene | 6.406 | 75 | 49461 | 2.011 | ppbv | | 99 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042173.D
Acq On : 27 Mar 2025 08:59
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Quant Time: Mar 28 01:32:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

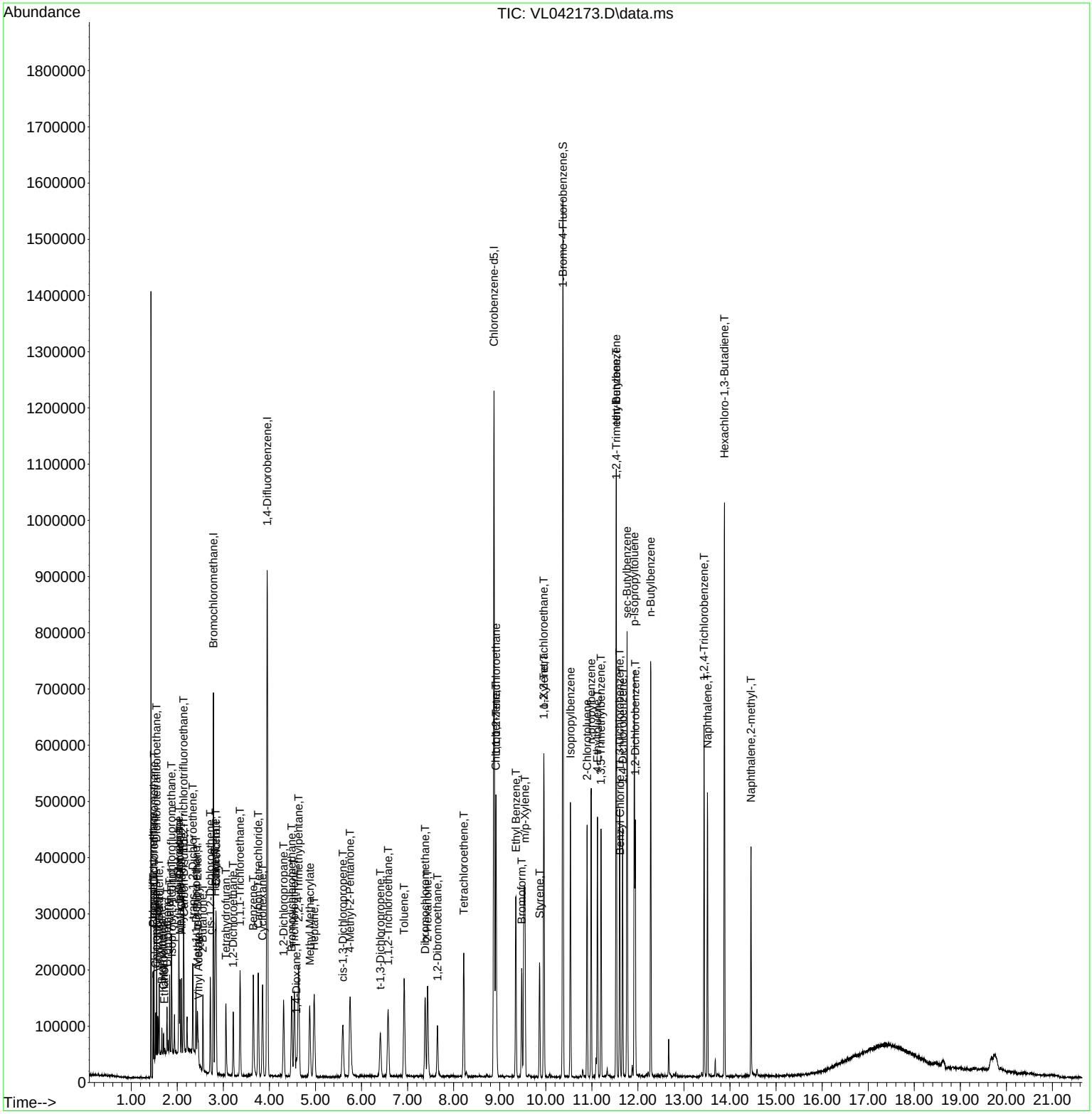
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.593 | 75 | 61829 | 2.050 | ppbv | # | 91 |
| 47) 1,1,2-Trichloroethane | 6.577 | 97 | 41387 | 1.985 | ppbv | | 95 |
| 48) Dibromochloromethane | 7.383 | 129 | 72441 | 2.050 | ppbv | | 100 |
| 49) Bromoform | 9.477 | 173 | 65221 | 2.056 | ppbv | | 98 |
| 50) 4-Methyl-2-Pentanone | 5.752 | 43 | 132328 | 2.107 | ppbv | | 99 |
| 51) 2-Hexanone | 7.435 | 43 | 112681 | 2.162 | ppbv | # | 99 |
| 52) Tetrachloroethene | 8.221 | 164 | 40558 | 1.888 | ppbv | | 98 |
| 53) Toluene | 6.923 | 91 | 131314 | 2.045 | ppbv | | 99 |
| 54) 1,2-Dibromoethane | 7.648 | 107 | 56799 | 1.952 | ppbv | | 90 |
| 56) 1,1,1,2-Tetrachloroethane | 8.920 | 131 | 58141 | 2.093 | ppbv | | 97 |
| 57) Chlorobenzene | 8.914 | 112 | 100308 | 2.096 | ppbv | # | 94 |
| 58) Ethyl Benzene | 9.351 | 91 | 191114 | 2.132 | ppbv | | 96 |
| 59) m/p-Xylene | 9.548 | 91 | 167182 | 2.333 | ppbv | # | 31 |
| 60) o-Xylene | 9.959 | 91 | 151292 | 2.109 | ppbv | | 98 |
| 61) Styrene | 9.865 | 104 | 74134 | 2.089 | ppbv | | 98 |
| 62) Isopropylbenzene | 10.535 | 105 | 228191 | 2.127 | ppbv | | 99 |
| 63) 1,1,2,2-Tetrachloroethane | 9.956 | 83 | 90114 | 2.067 | ppbv | | 99 |
| 64) n-propylbenzene | 10.985 | 120 | 58105 | 2.104 | ppbv | | 92 |
| 65) tert-Butylbenzene | 11.529 | 119 | 216336 | 2.180 | ppbv | | 99 |
| 66) Benzyl Chloride | 11.610 | 91 | 22272 | 2.116 | ppbv | | 95 |
| 67) sec-Butylbenzene | 11.762 | 105 | 297381 | 2.156 | ppbv | | 99 |
| 69) p-Isopropyltoluene | 11.921 | 119 | 258357 | 2.176 | ppbv | | 100 |
| 70) n-Butylbenzene | 12.277 | 91 | 270616 | 2.228 | ppbv | | 99 |
| 71) 2-Chlorotoluene | 10.898 | 91 | 177487 | 2.132 | ppbv | | 100 |
| 72) 4-Ethyltoluene | 11.121 | 105 | 194660 | 2.179 | ppbv | | 99 |
| 73) 1,3,5-Trimethylbenzene | 11.199 | 105 | 169221 | 2.169 | ppbv | | 96 |
| 74) 1,2,4-Trimethylbenzene | 11.532 | 105 | 198351 | 2.207 | ppbv | | 96 |
| 75) 1,3-Dichlorobenzene | 11.604 | 146 | 107217 | 2.175 | ppbv | | 97 |
| 76) 1,4-Dichlorobenzene | 11.668 | 146 | 104925 | 2.139 | ppbv | | 99 |
| 77) 1,2-Dichlorobenzene | 11.943 | 146 | 102310 | 2.132 | ppbv | | 99 |
| 78) Hexachloro-1,3-Butadiene | 13.879 | 225 | 109539 | 2.242 | ppbv | | 99 |
| 79) Naphthalene | 13.510 | 128 | 233451 | 2.375 | ppbv | | 97 |
| 80) Naphthalene,2-methyl- | 14.455 | 142 | 117313 | 2.451 | ppbv | | 99 |
| 81) 1,2,4-Trichlorobenzene | 13.435 | 180 | 103765 | 2.288 | ppbv | | 97 |

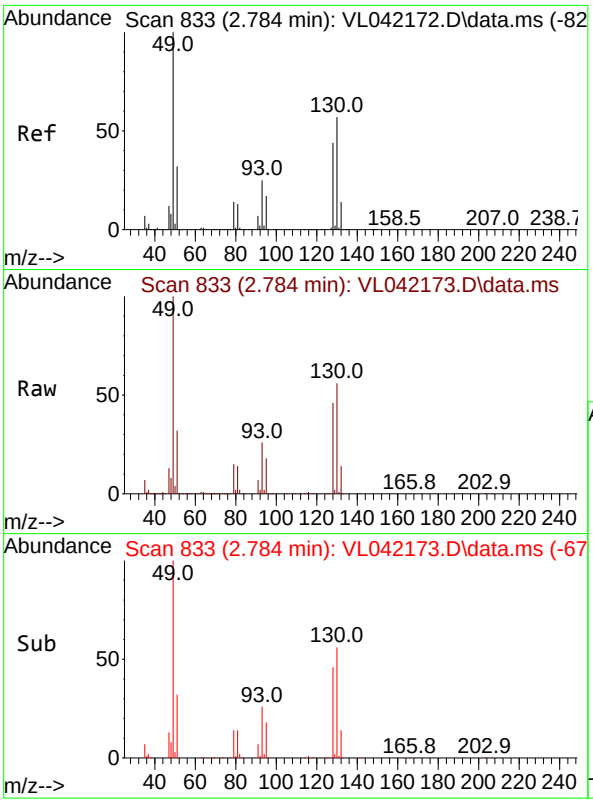
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042173.D
Acq On : 27 Mar 2025 08:59
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Quant Time: Mar 28 01:32:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration



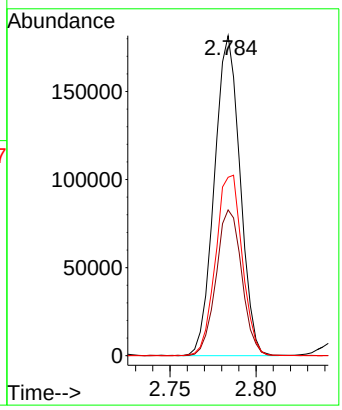


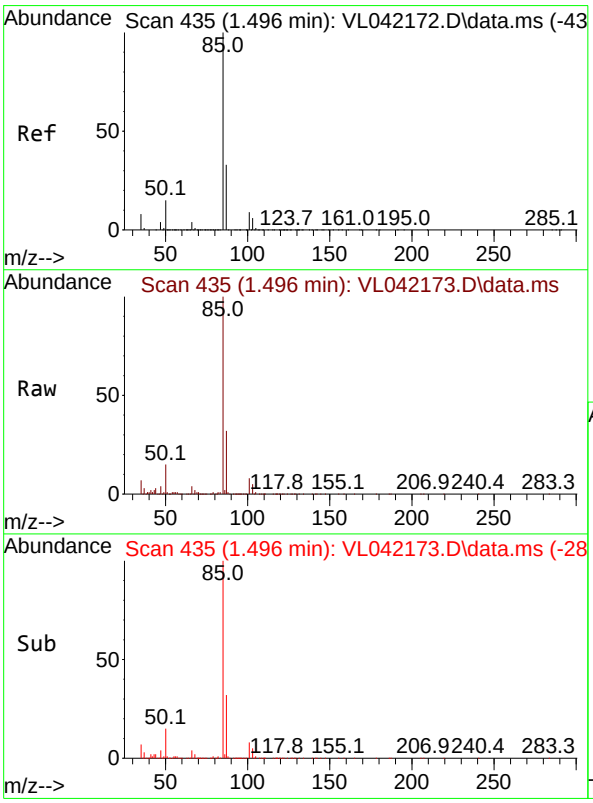

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion: 49 Resp: 188395

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 45.7 | 22.9 | 68.5 |
| 130 | 58.5 | 28.8 | 86.4 |

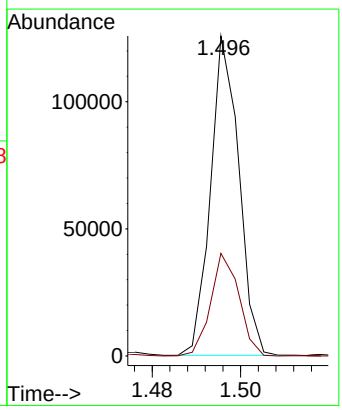


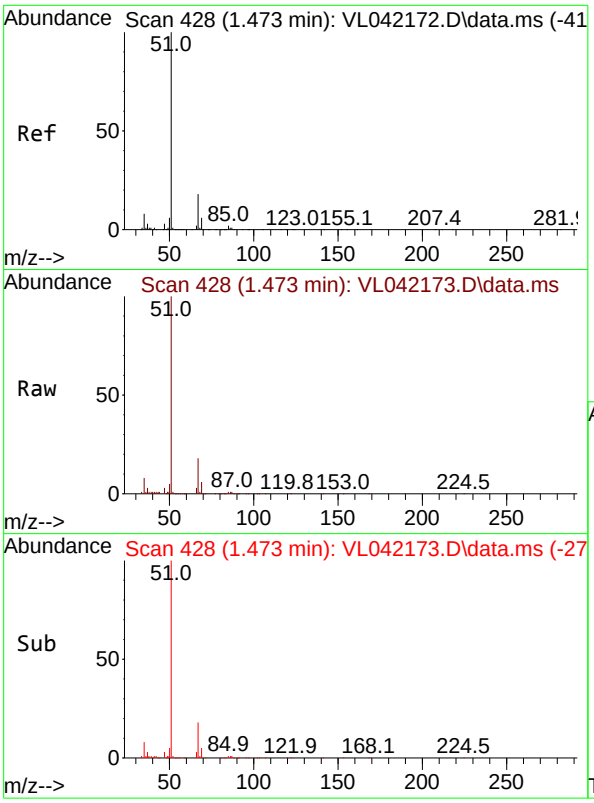




#2
Dichlorodifluoromethane
Concen: 2.008 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 85 Resp: 55859

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.1 | 26.1 | 39.1 |



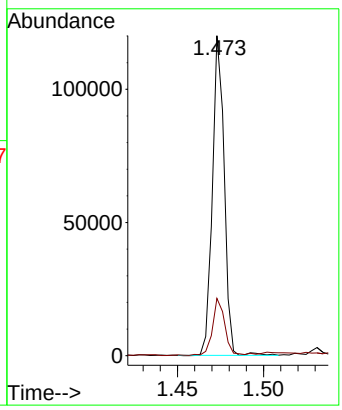


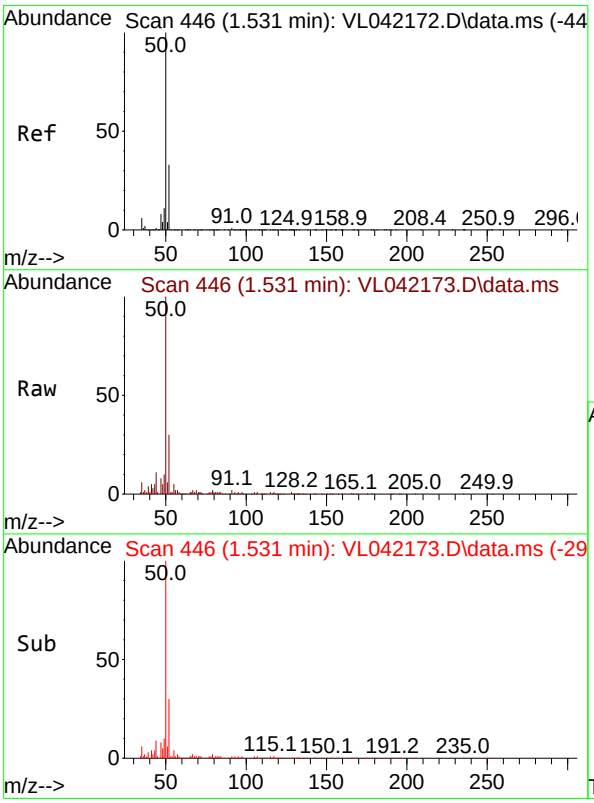

#3
Chlorodifluoromethane
Concen: 2.007 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion: 51 Resp: 57045

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 19.4 | 15.0 | 22.6 |

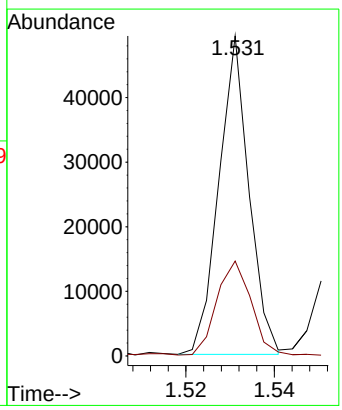


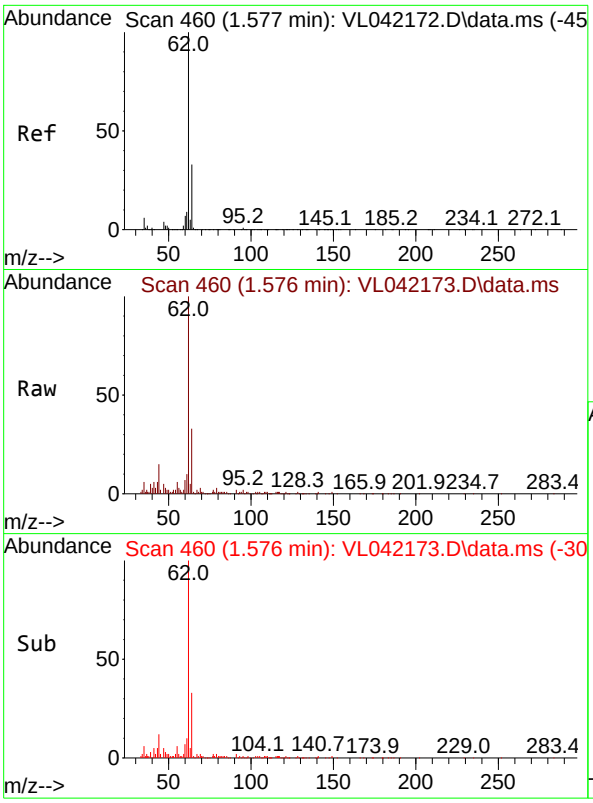




#4
Chloromethane
Concen: 2.049 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 50 Resp: 23293

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 29.5 | 26.1 | 39.1 |



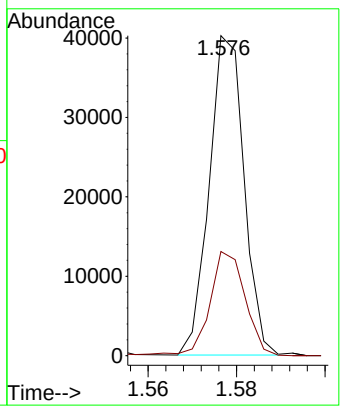


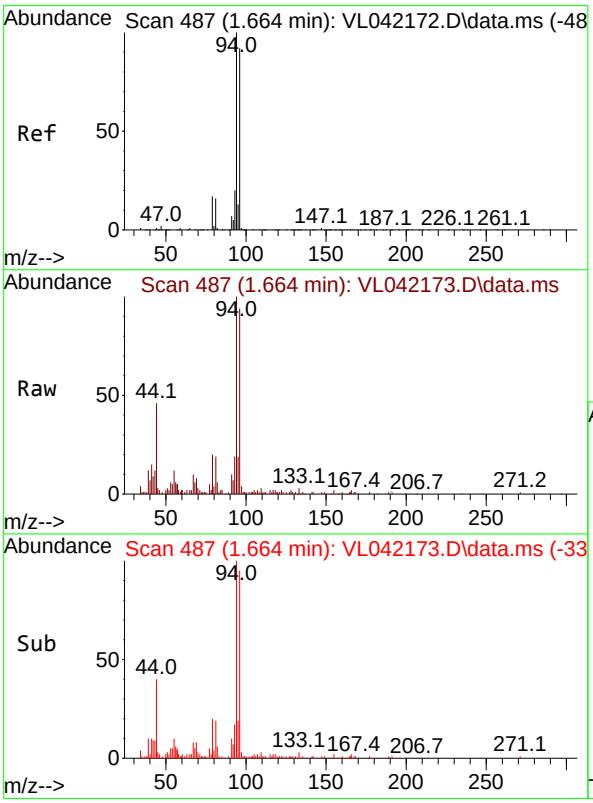

#5
Vinyl Chloride
Concen: 1.897 ppbv
RT: 1.576 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion: 62 Resp: 21989

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.5 | 26.6 | 40.0 |

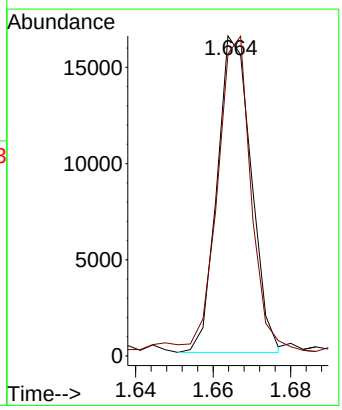


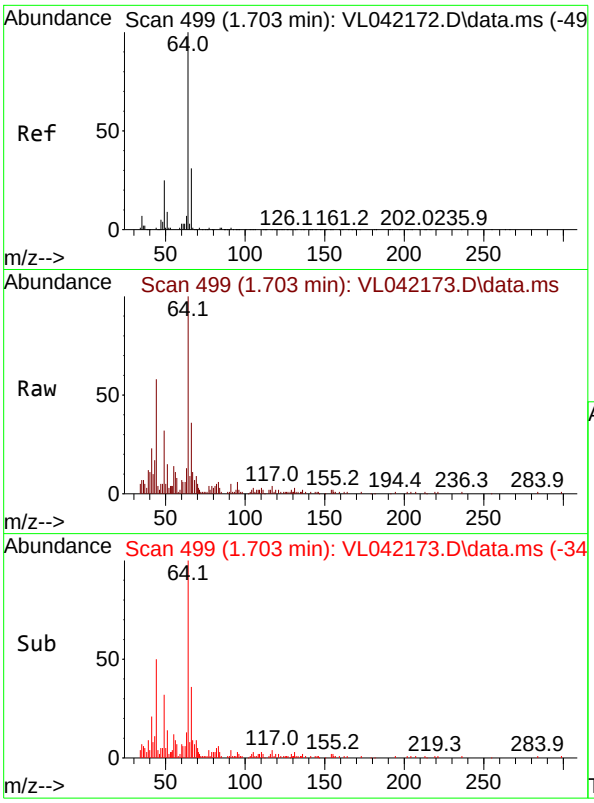




#6
Bromomethane
Concen: 1.946 ppbv
RT: 1.664 min Scan# 487
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 94 Resp: 10027

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 93.6 | 73.1 | 109.7 |



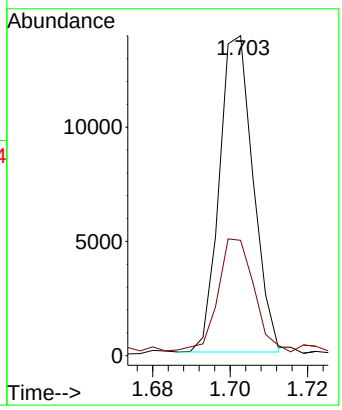


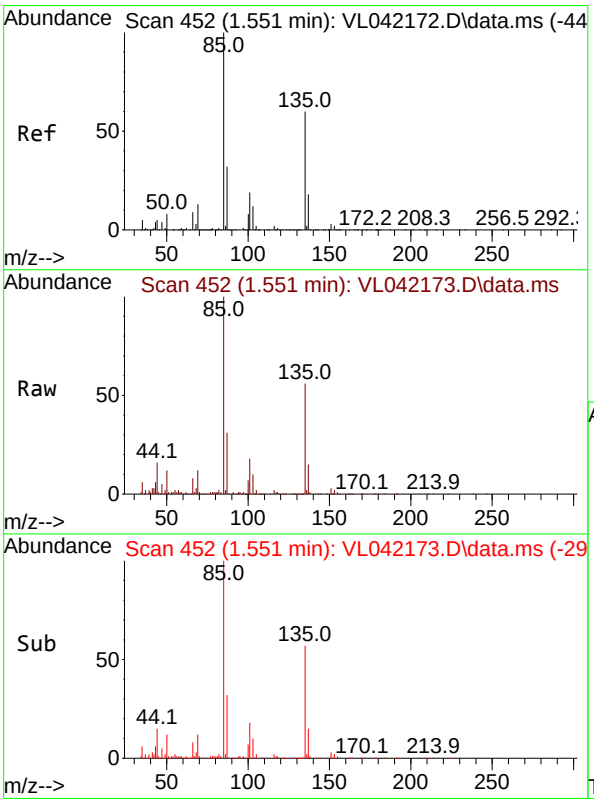

#7
Chloroethane
Concen: 1.844 ppbv
RT: 1.703 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion: 64 Resp: 8413

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 36.1 | 25.2 | 37.8 |

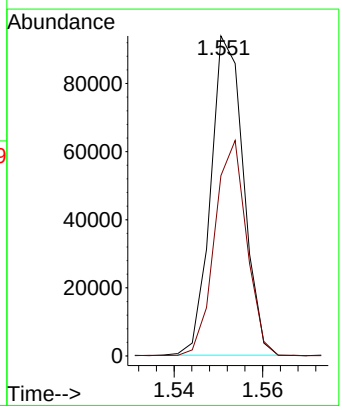


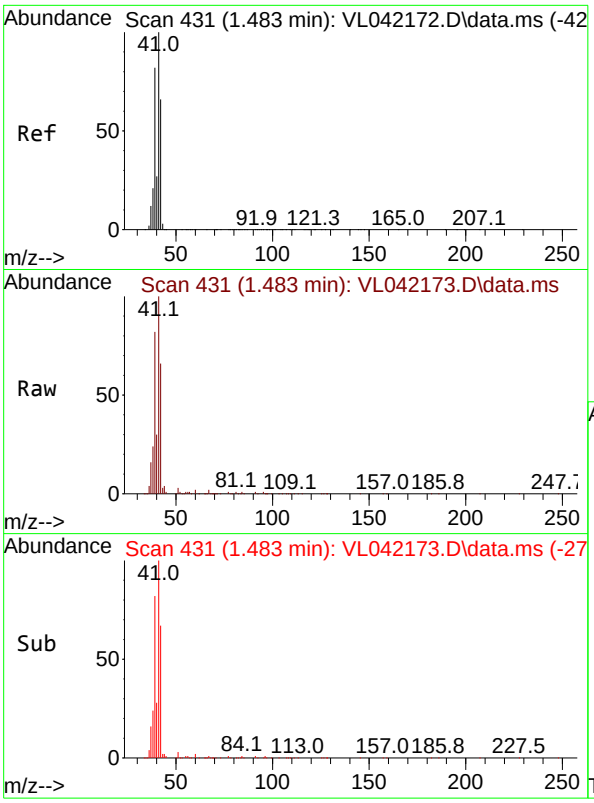




#8
Dichlorotetrafluoroethane
Concen: 2.027 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 85 Resp: 48008

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 66.8 | 52.4 | 78.6 |



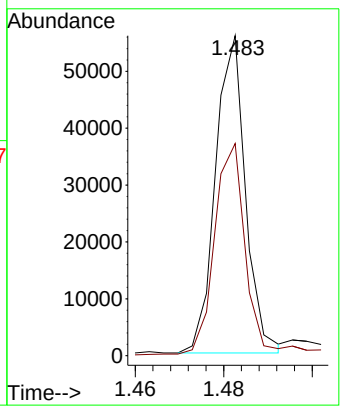


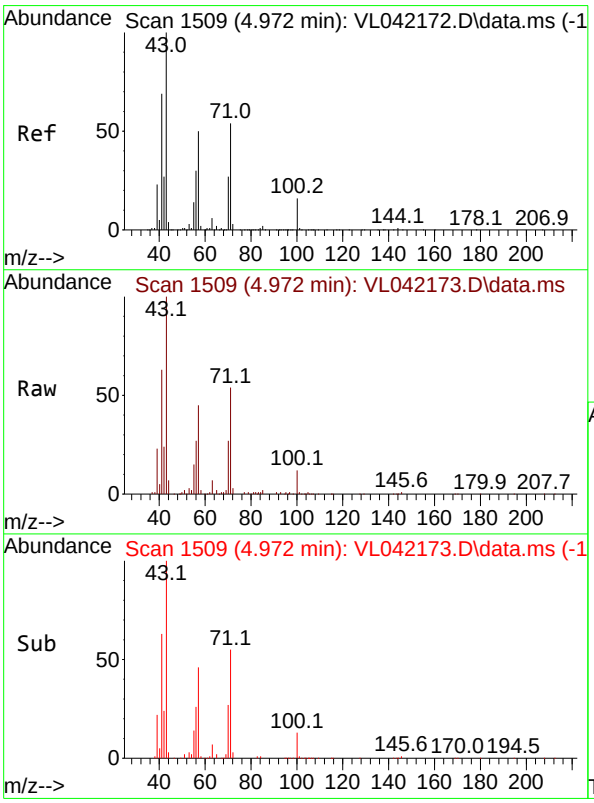

#9
Propene
Concen: 2.054 ppbv
RT: 1.483 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion: 41 Resp: 26295

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 73.9 | 55.4 | 83.2 |

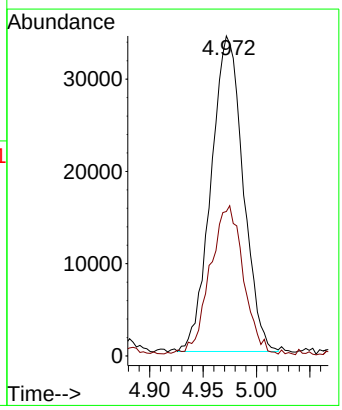


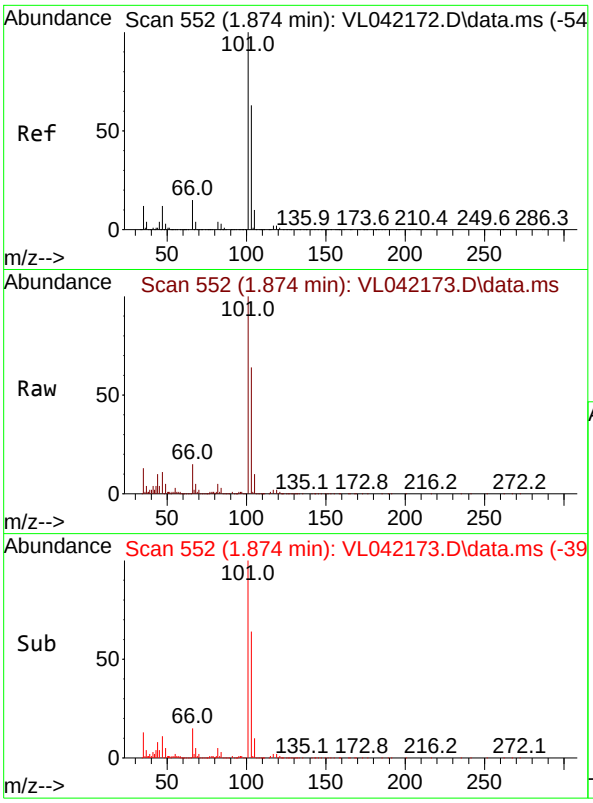




#10
Heptane
Concen: 2.063 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 43 Resp: 71466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 49.6 | 39.4 | 59.2 |



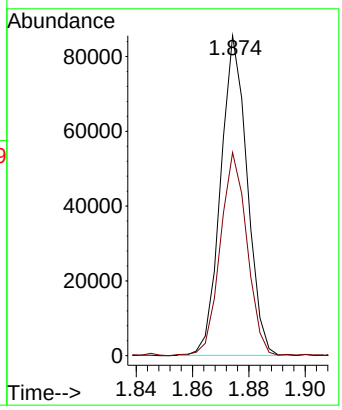


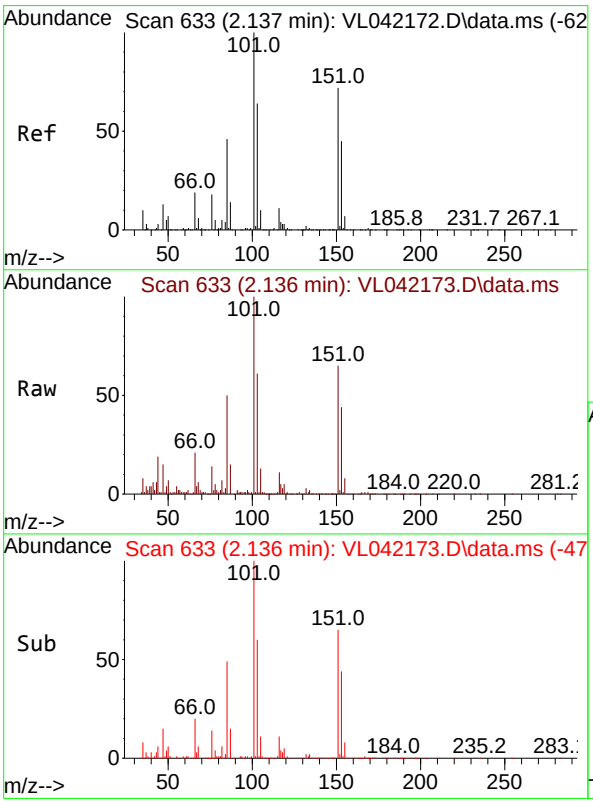

#11
Trichlorofluoromethane
Concen: 2.060 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion:101 Resp: 55754

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.5 | 50.2 | 75.2 |

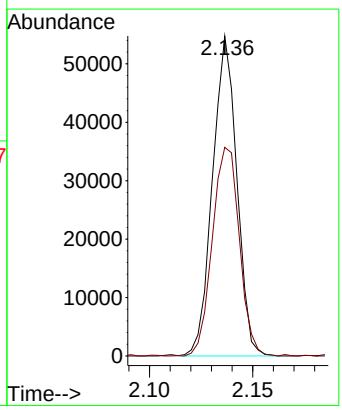


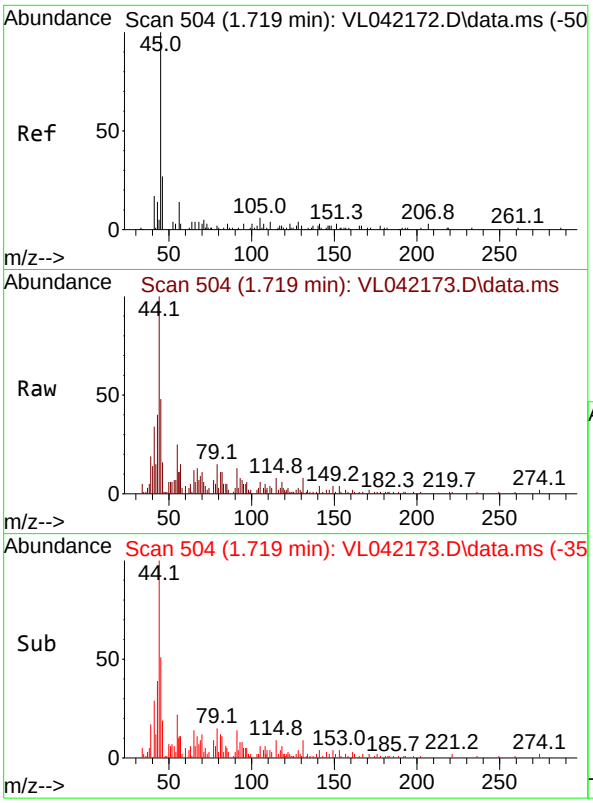




#12
1,1,2-Trichlorotrifluoroethane
Concen: 2.012 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:101 Resp: 44761

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 73.0 | 57.1 | 85.7 |



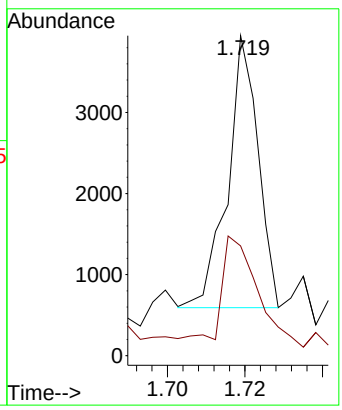


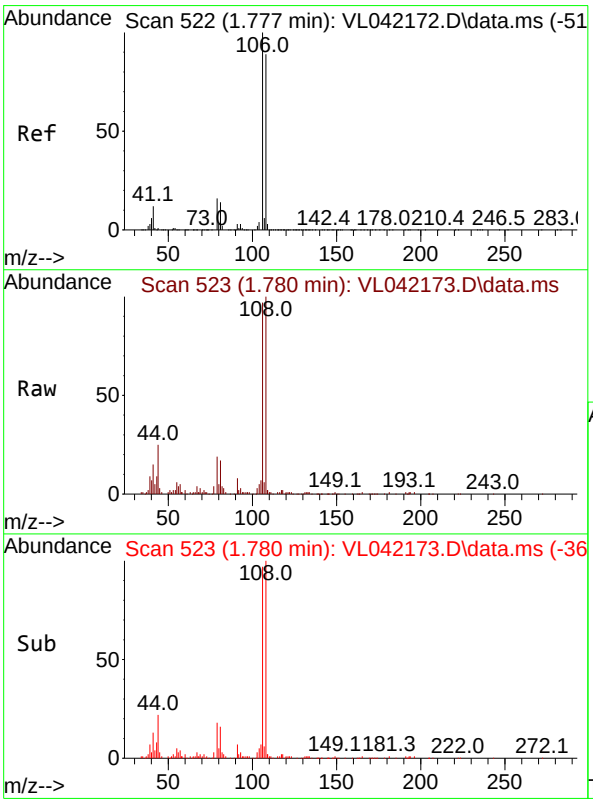

#13
Ethanol
Concen: 1.822 ppbv
RT: 1.719 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion: 45 Resp: 1827

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 85.6 | 20.2 | 80.8# |

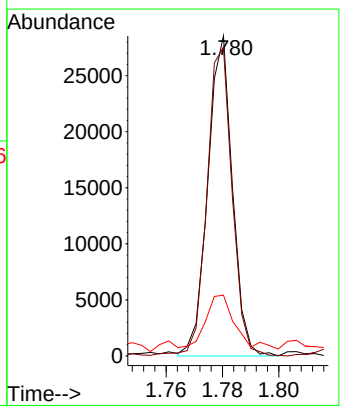


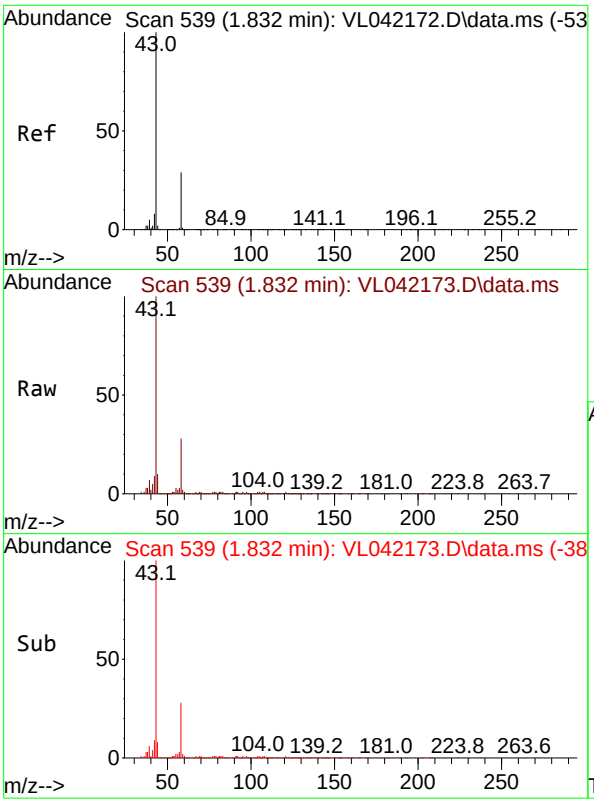




#14
Bromoethene
Concen: 2.033 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:108 Resp: 17323

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 106 | 100.6 | 86.8 | 130.2 |
| 79 | 32.0 | 15.0 | 22.6# |



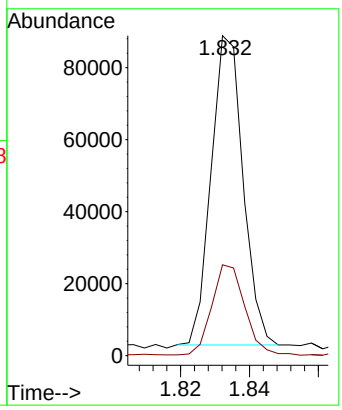


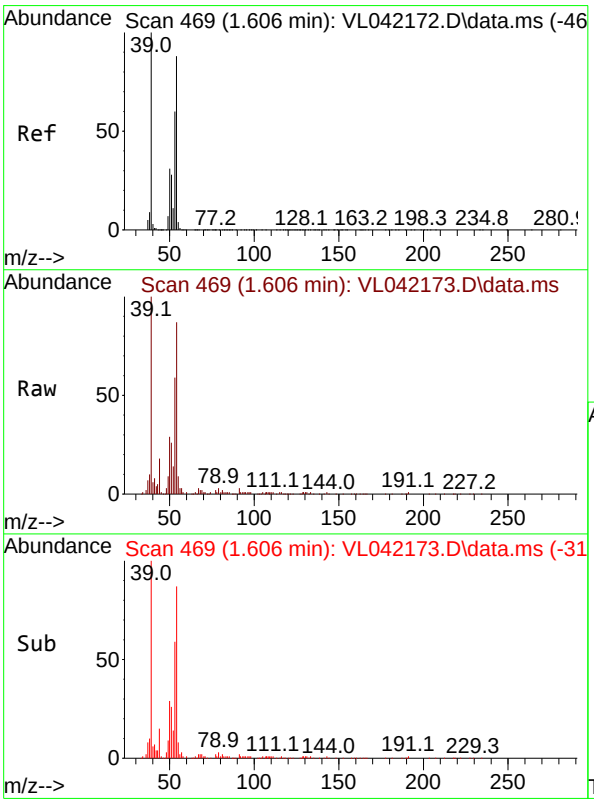

#15
Acetone
Concen: 2.101 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion: 43 Resp: 55365

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 31.8 | 23.2 | 34.8 |

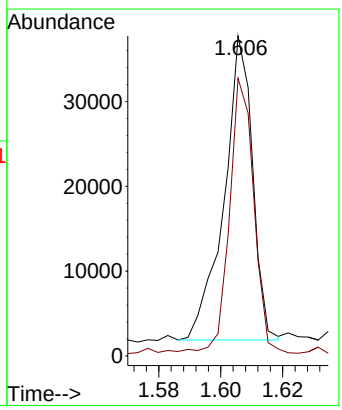


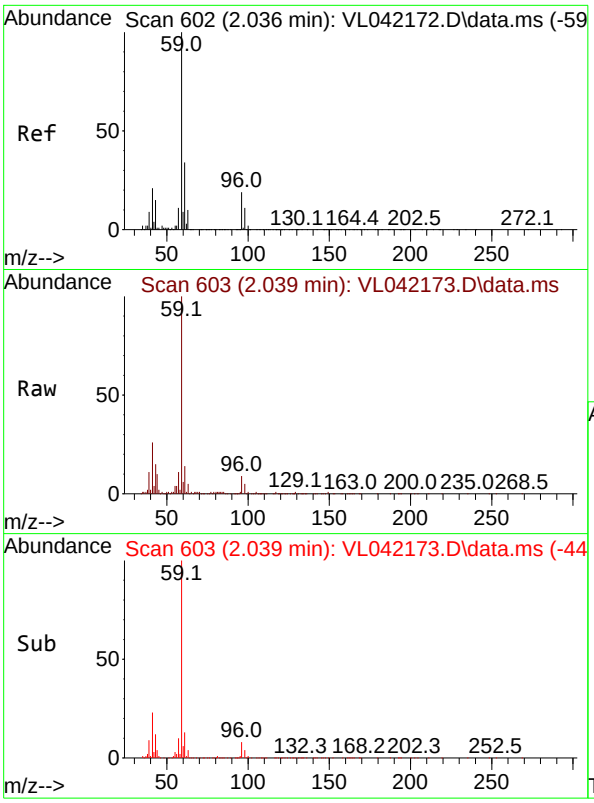




#16
1,3-Butadiene
Concen: 1.932 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 39 Resp: 22894

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 79.9 | 60.7 | 91.1 |



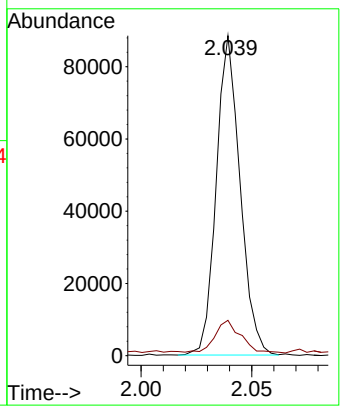


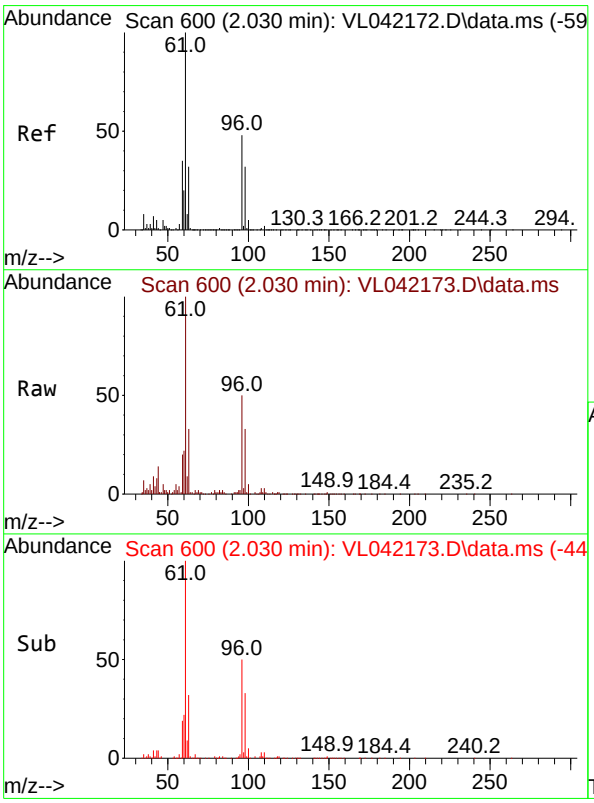

#17
tert-Butyl alcohol
Concen: 2.016 ppbv
RT: 2.039 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion: 59 Resp: 66174

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 11.2 | 8.9 | 13.3 |

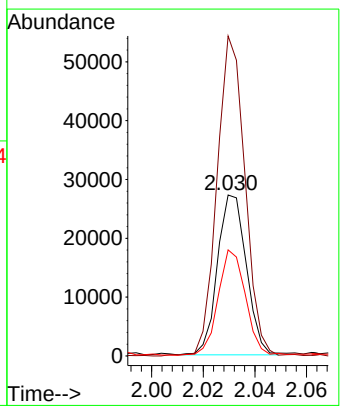


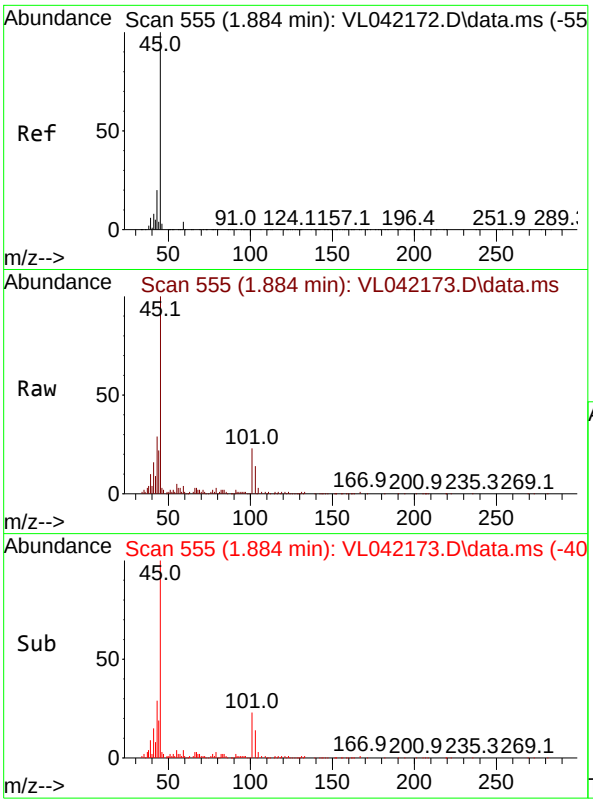




#18
1,1-Dichloroethene
Concen: 2.029 ppbv
RT: 2.030 min Scan# 600
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 96 Resp: 21103

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 199.8 | 167.6 | 251.4 |
| 98 | 66.0 | 53.5 | 80.3 |



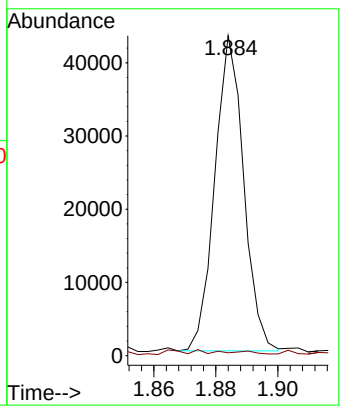


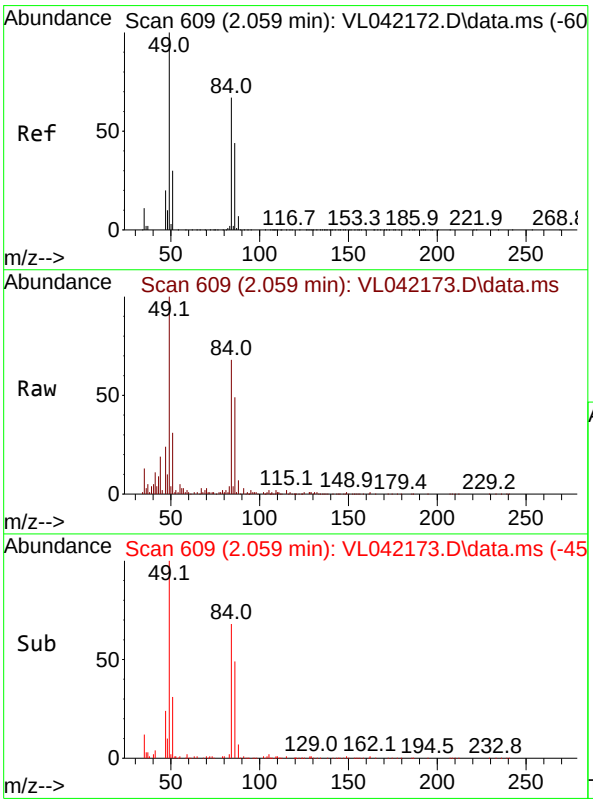

#19
Isopropyl Alcohol
Concen: 1.870 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion: 45 Resp: 27804

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 3.3 | 36.9 | 55.3# |

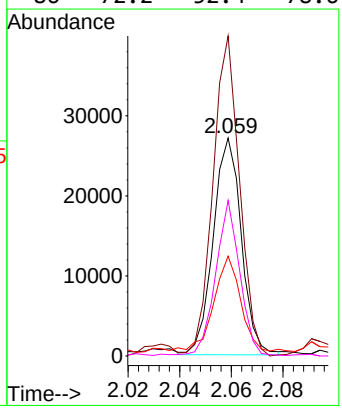


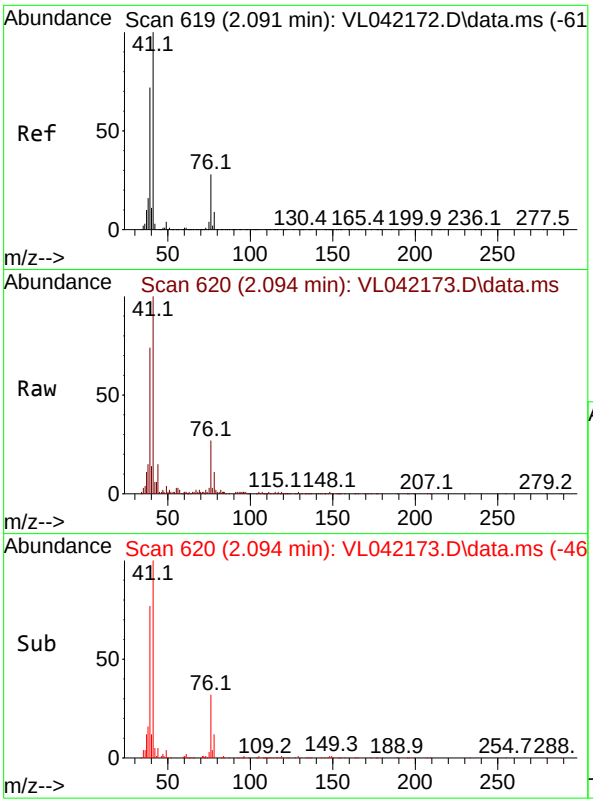




#20
Methylene Chloride
Concen: 2.091 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 84 Resp: 20518

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 148.8 | 120.2 | 180.4 |
| 51 | 43.5 | 37.4 | 56.0 |
| 86 | 72.2 | 52.4 | 78.6 |



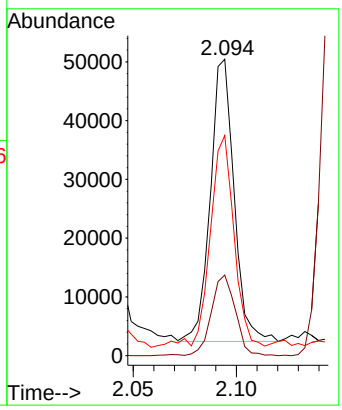


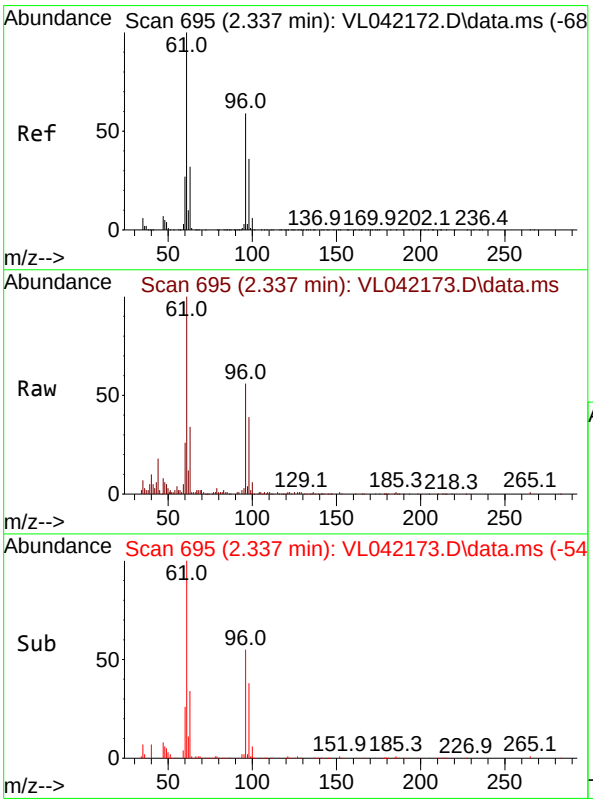

#21
Allyl Chloride
Concen: 2.068 ppbv
RT: 2.094 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion: 41 Resp: 38425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 29.0 | 24.1 | 36.1 |
| 39 | 77.5 | 61.1 | 91.7 |

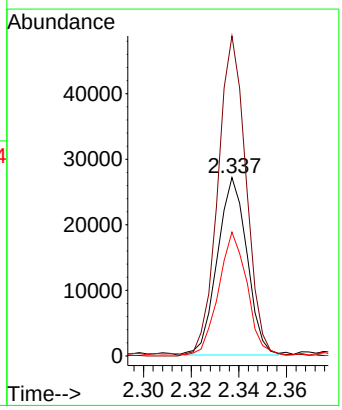


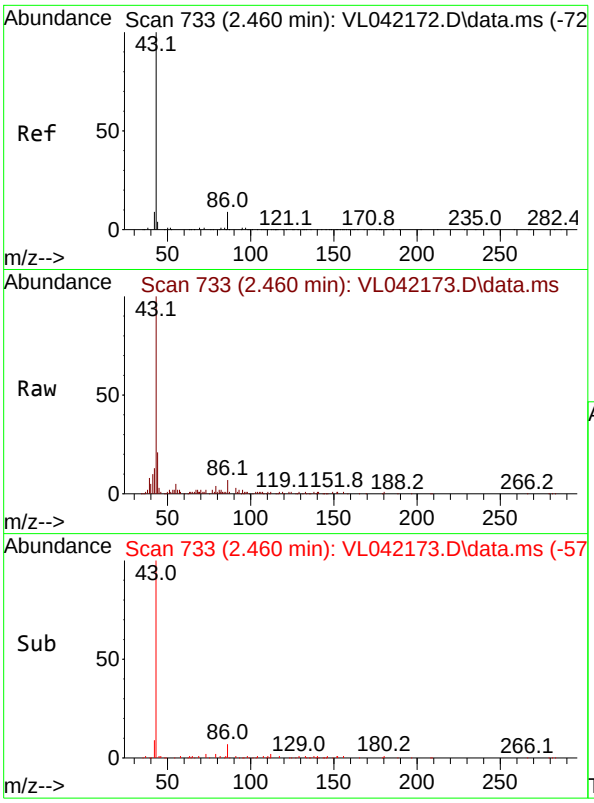




#22
trans-1,2-Dichloroethene
Concen: 1.924 ppbv
RT: 2.337 min Scan# 695
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 96 Resp: 23384

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 180.3 | 136.6 | 204.8 |
| 98 | 68.6 | 49.4 | 74.2 |



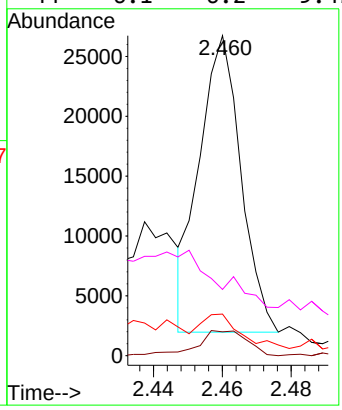


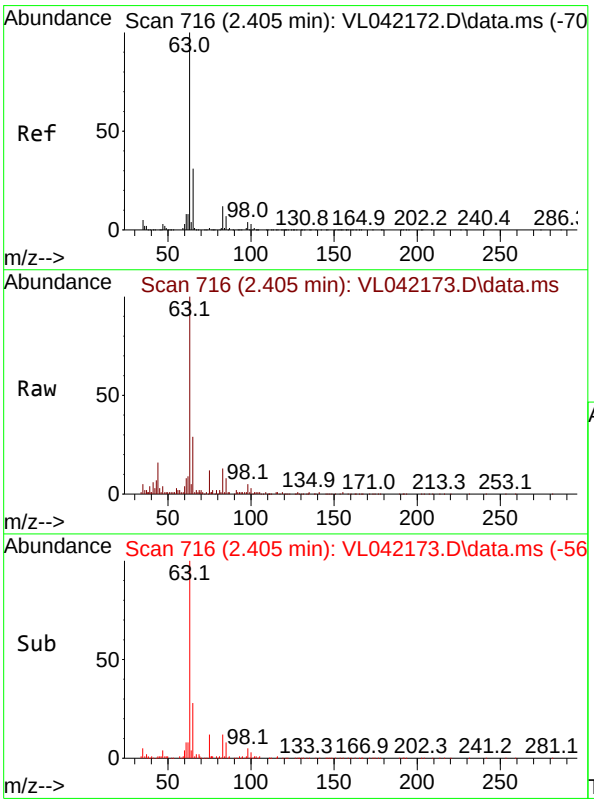

#23
Vinyl Acetate
Concen: 1.894 ppbv
RT: 2.460 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion: 43 Resp: 20736

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 8.1 | 5.5 | 8.3 |
| 42 | 10.4 | 8.6 | 13.0 |
| 44 | 6.1 | 6.2 | 9.4# |

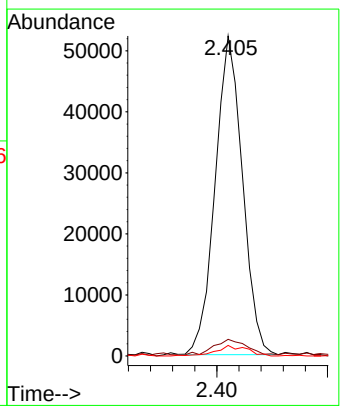


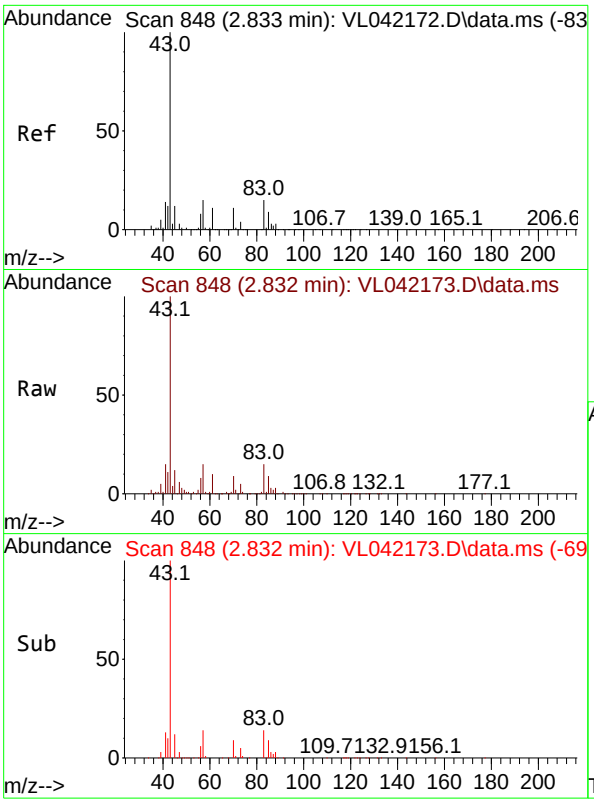




#24
1,1-Dichloroethane
Concen: 2.008 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 63 Resp: 44740

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 4.9 | 2.3 | 6.8 |
| 100 | 3.3 | 1.6 | 4.7 |



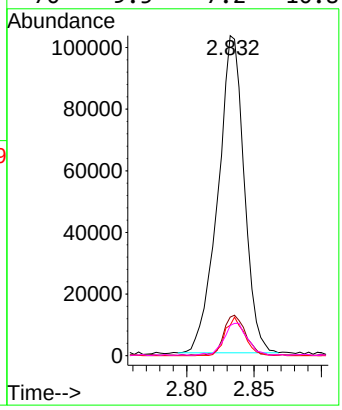


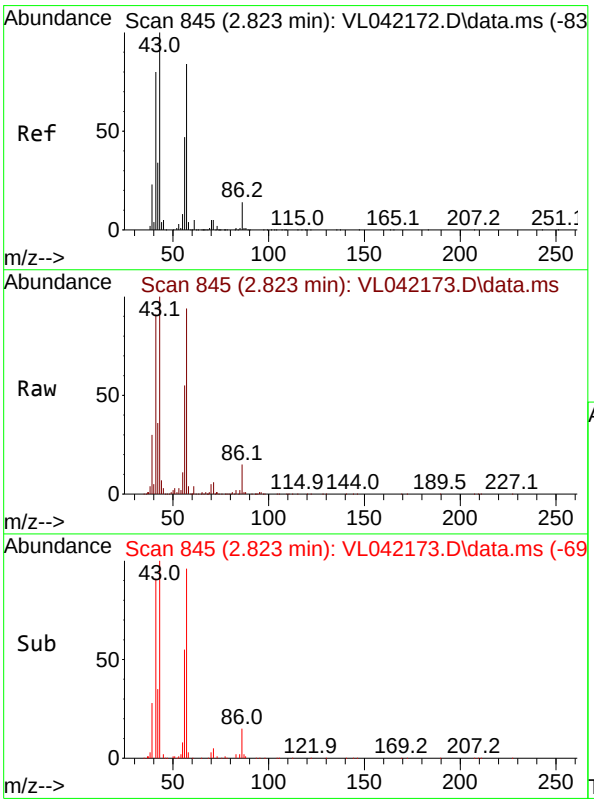

#25
Ethyl Acetate
Concen: 2.040 ppbv
RT: 2.832 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion: 43 Resp: 139516

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 10.9 | 8.2 | 12.2 |
| 61 | 9.1 | 7.3 | 10.9 |
| 70 | 9.5 | 7.2 | 10.8 |

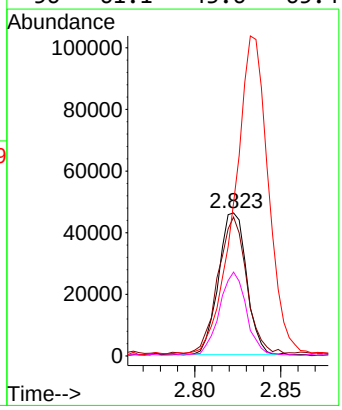


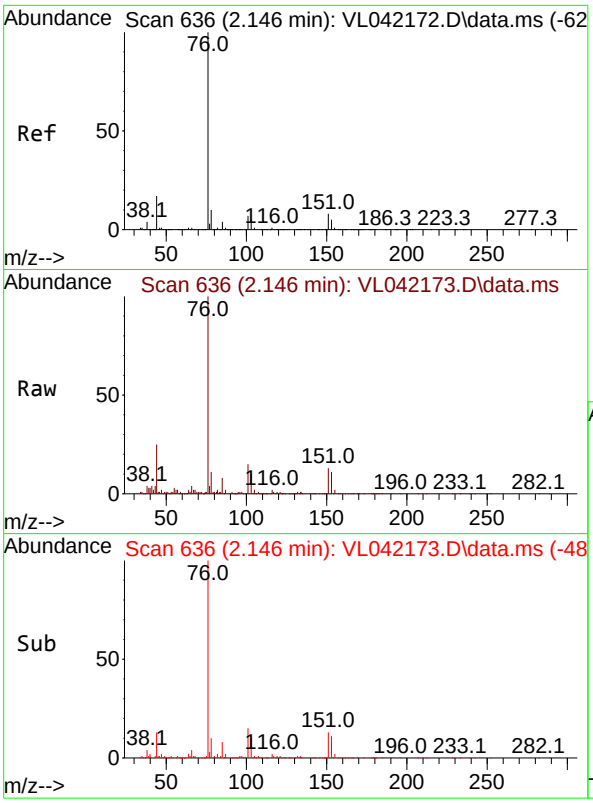




#26
Hexane
Concen: 1.972 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 57 Resp: 52095

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 100.9 | 76.6 | 114.8 |
| 43 | 274.8 | 207.8 | 311.8 |
| 56 | 61.1 | 43.6 | 65.4 |



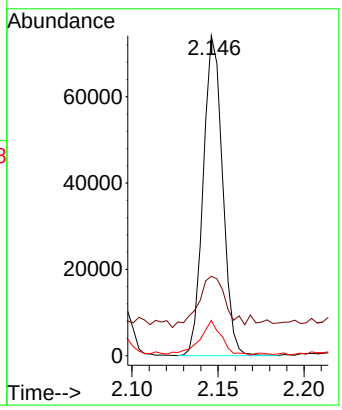


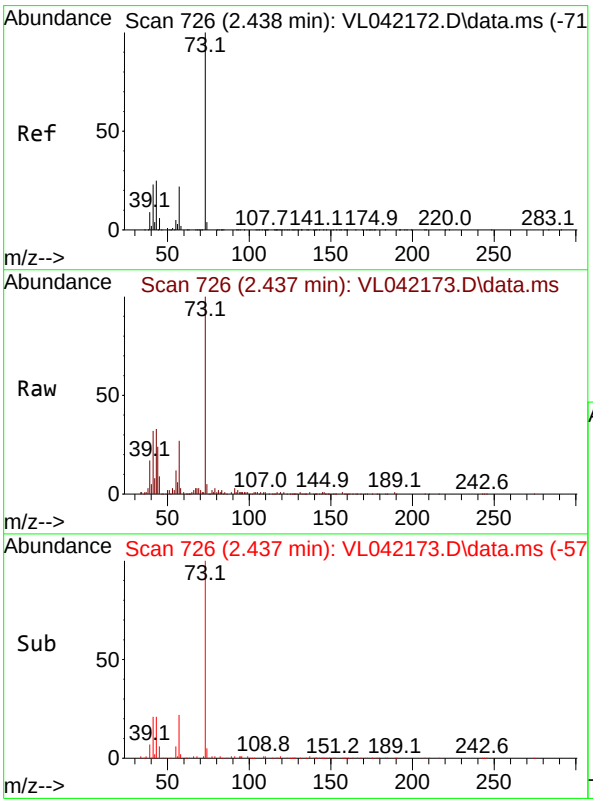

#27
Carbon Disulfide
Concen: 2.047 ppbv
RT: 2.146 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion: 76 Resp: 57969

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 35.2 | 14.7 | 22.1# |
| 78 | 12.0 | 9.3 | 13.9 |

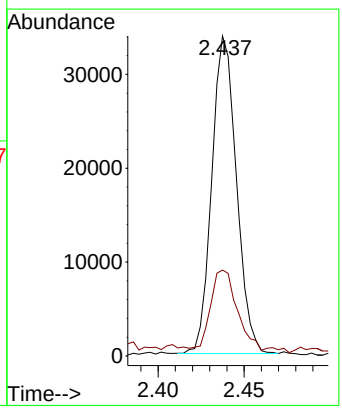


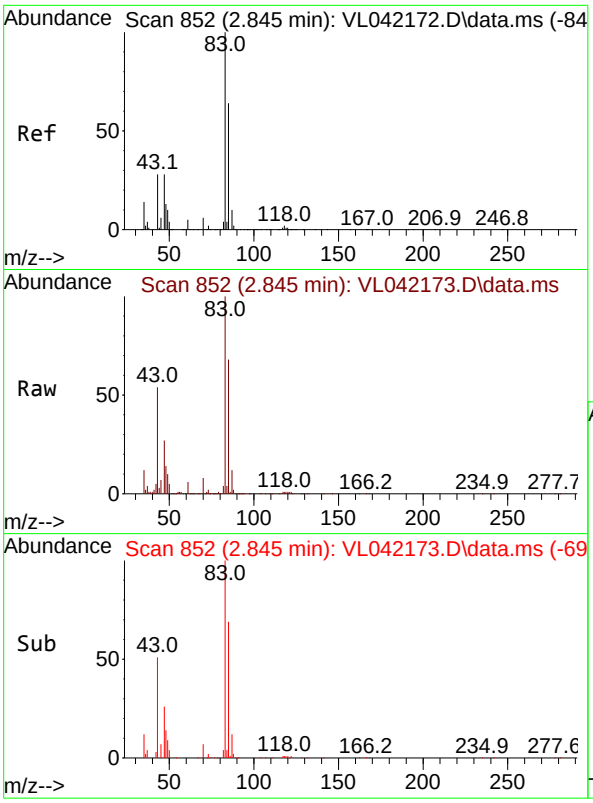




#28
Methyl tert-Butyl Ether
Concen: 2.049 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 73 Resp: 33703

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 25.2 | 20.5 | 30.7 |



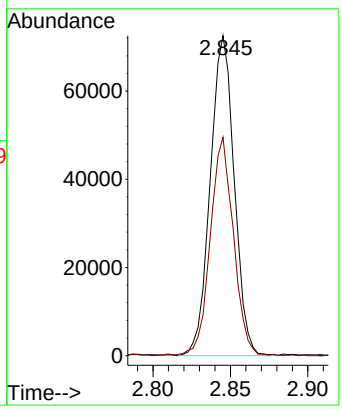


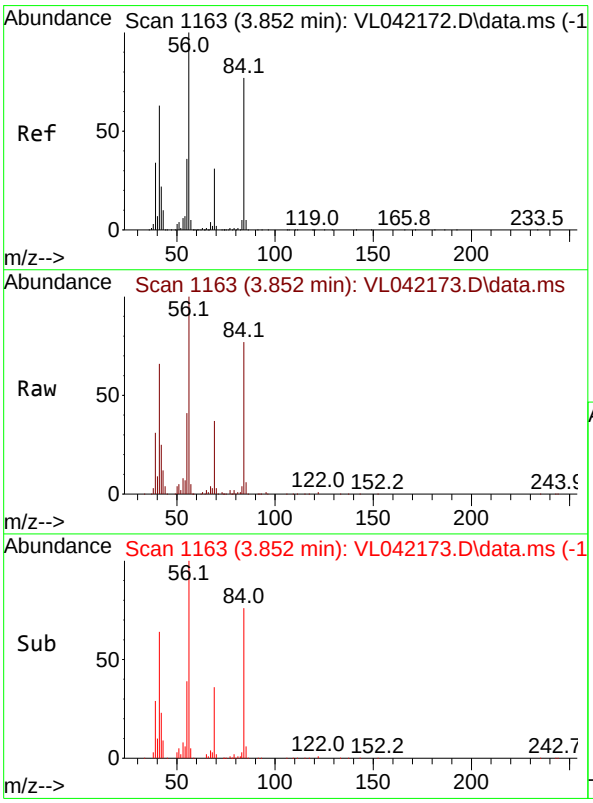

#29
Chloroform
Concen: 2.019 ppbv
RT: 2.845 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion: 83 Resp: 78043

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 68.2 | 51.4 | 77.2 |

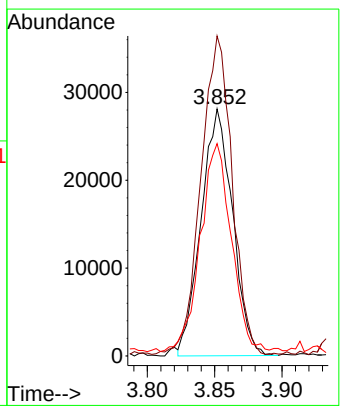


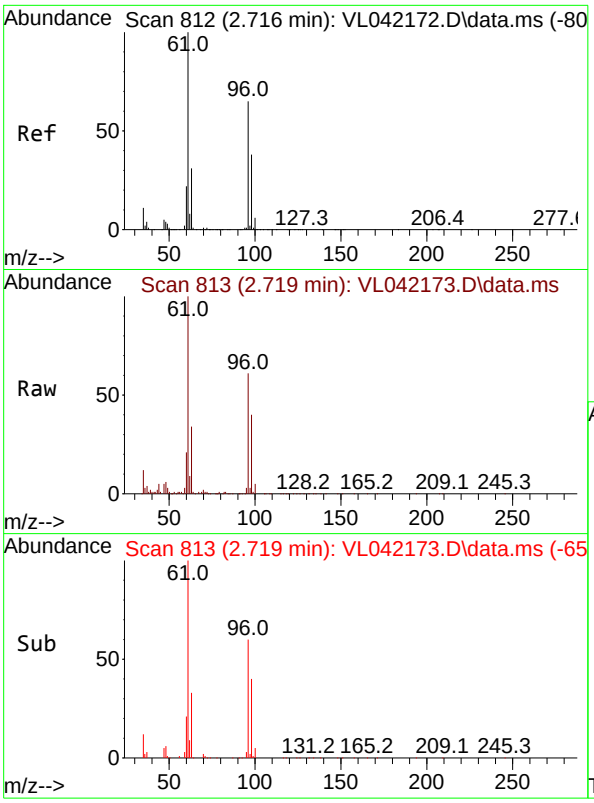




#30
Cyclohexane
Concen: 1.989 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 84 Resp: 45641

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 127.8 | 102.8 | 154.2 |
| 41 | 84.6 | 66.5 | 99.7 |



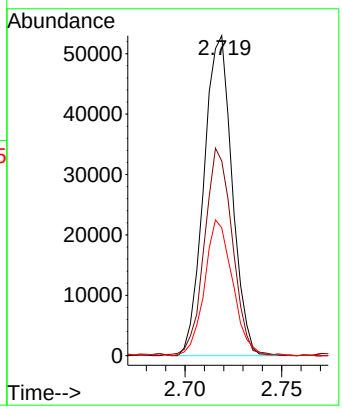


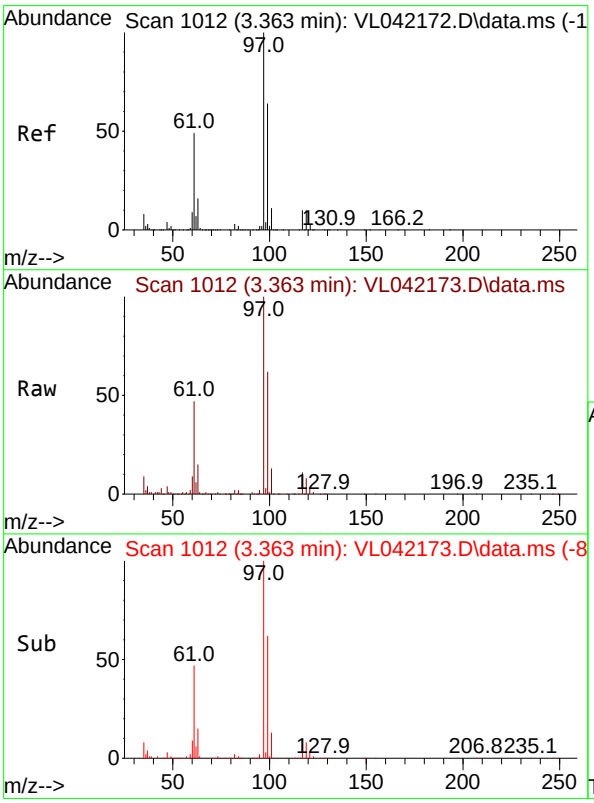

#31
cis-1,2-Dichloroethene
Concen: 2.003 ppbv
RT: 2.719 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion: 61 Resp: 53713

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 60.6 | 51.8 | 77.8 |
| 98 | 39.6 | 30.6 | 46.0 |

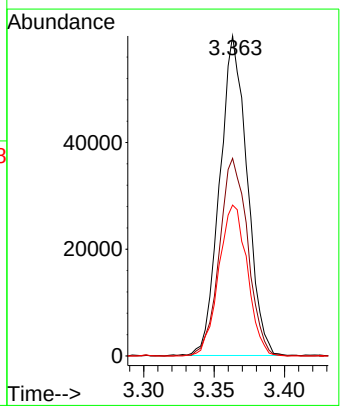


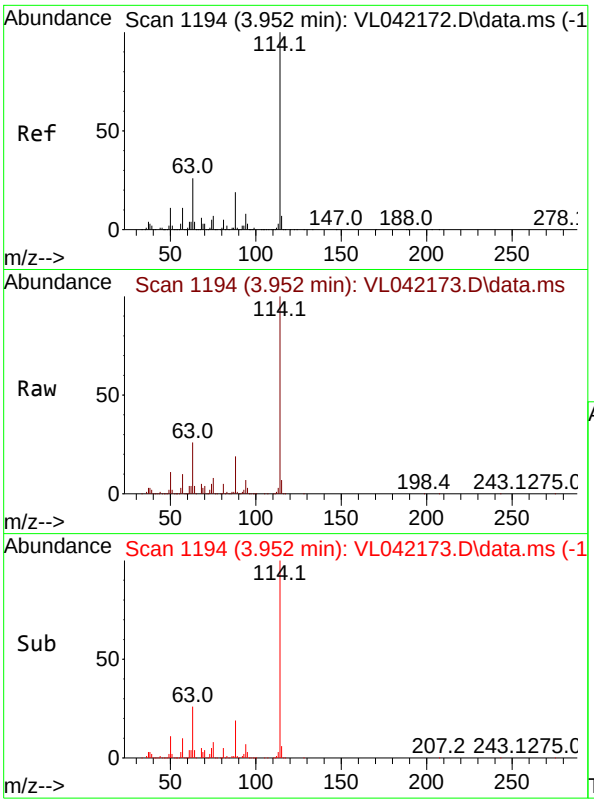




#32
1,1,1-Trichloroethane
Concen: 1.833 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 97 Resp: 81070

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.9 | 51.5 | 77.3 |
| 61 | 49.3 | 38.7 | 58.1 |



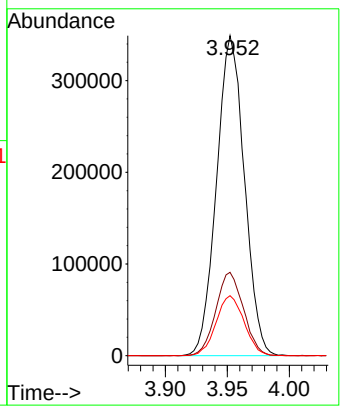


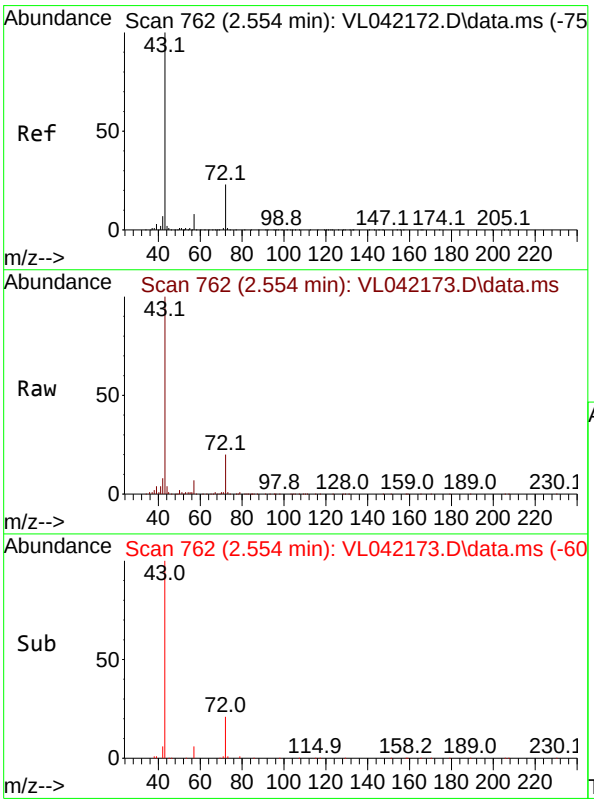

#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion:114 Resp: 546394

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.9 | 20.7 | 31.1 |
| 88 | 18.9 | 15.0 | 22.4 |

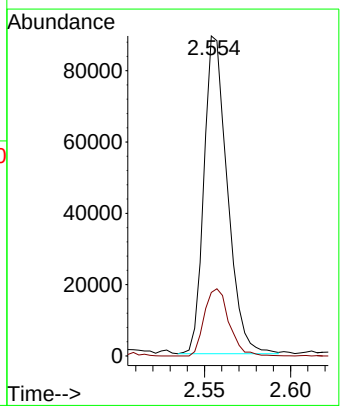


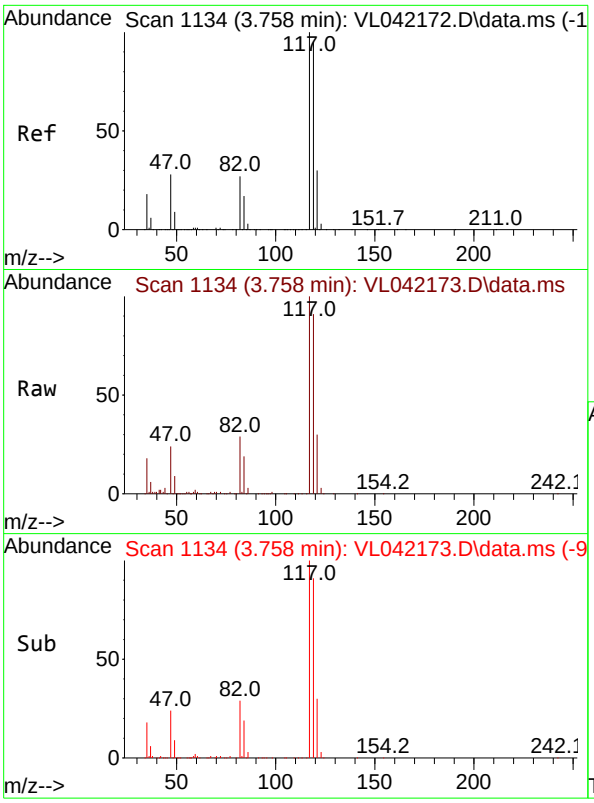




#34
2-Butanone
Concen: 2.124 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 43 Resp: 84157

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 22.4 | 18.2 | 27.2 |



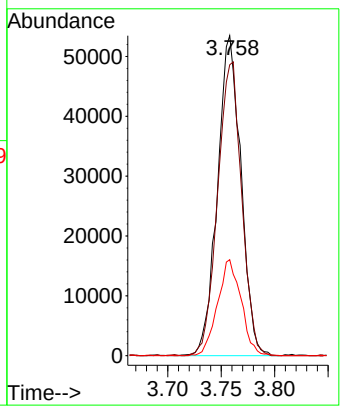


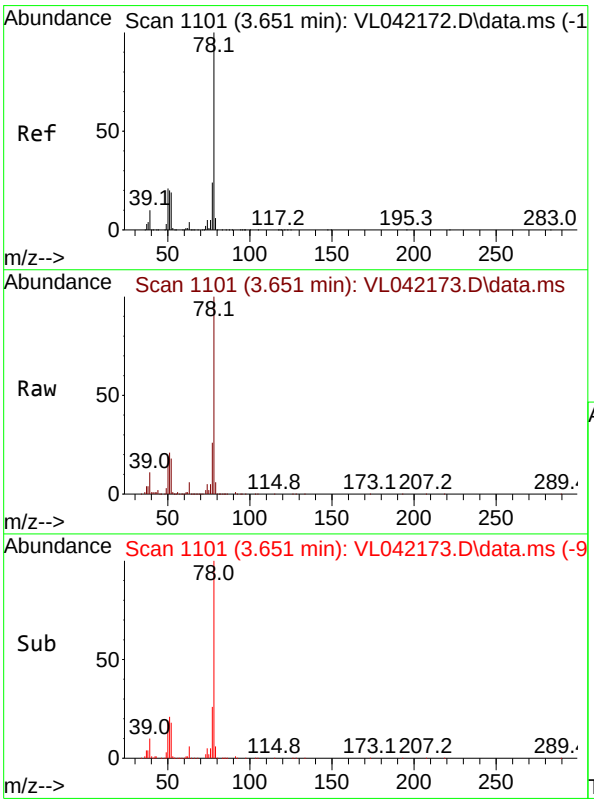

#35
Carbon Tetrachloride
Concen: 1.944 ppbv
RT: 3.758 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion:117 Resp: 81735

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 90.8 | 76.2 | 114.2 |
| 121 | 30.0 | 24.2 | 36.4 |

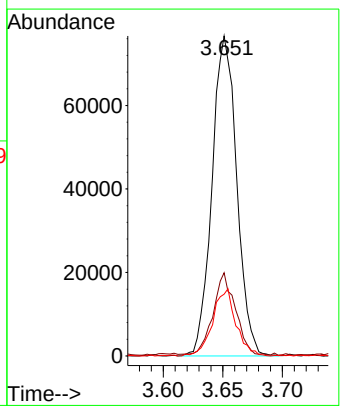


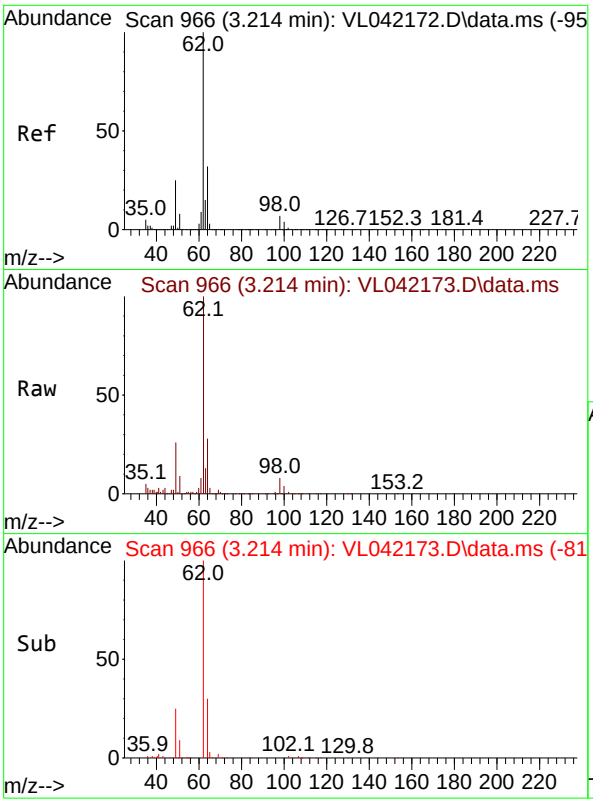




#36
Benzene
Concen: 2.044 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 78 Resp: 110727

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 25.7 | 19.1 | 28.7 |
| 50 | 19.3 | 16.6 | 24.8 |



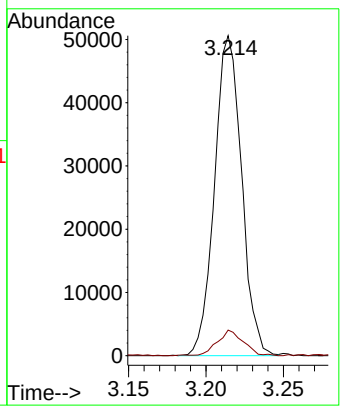


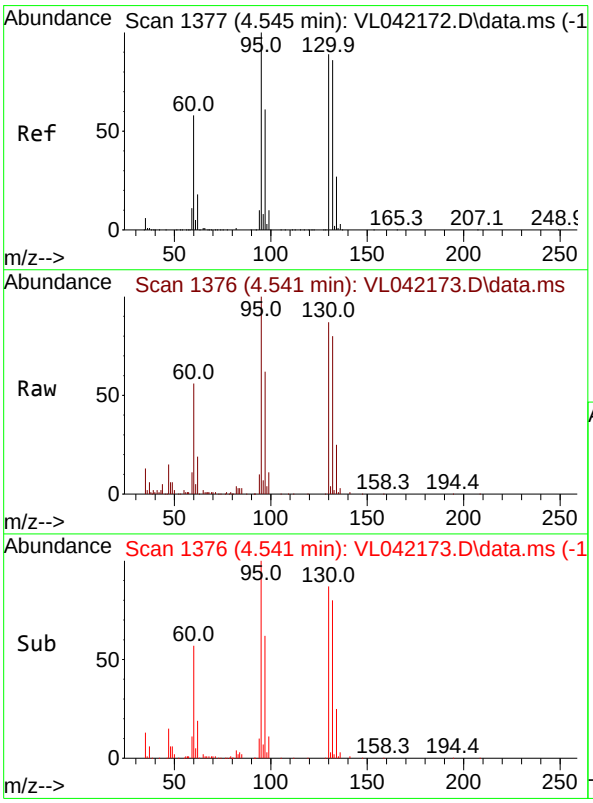

#37
1,2-Dichloroethane
Concen: 1.982 ppbv
RT: 3.214 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion: 62 Resp: 61476

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 7.7 | 5.4 | 8.2 |

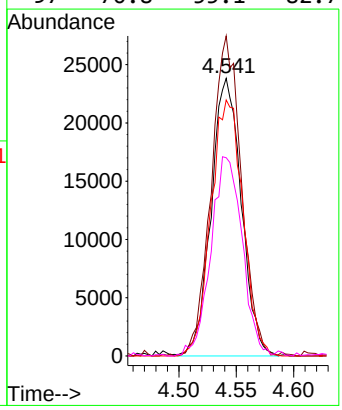


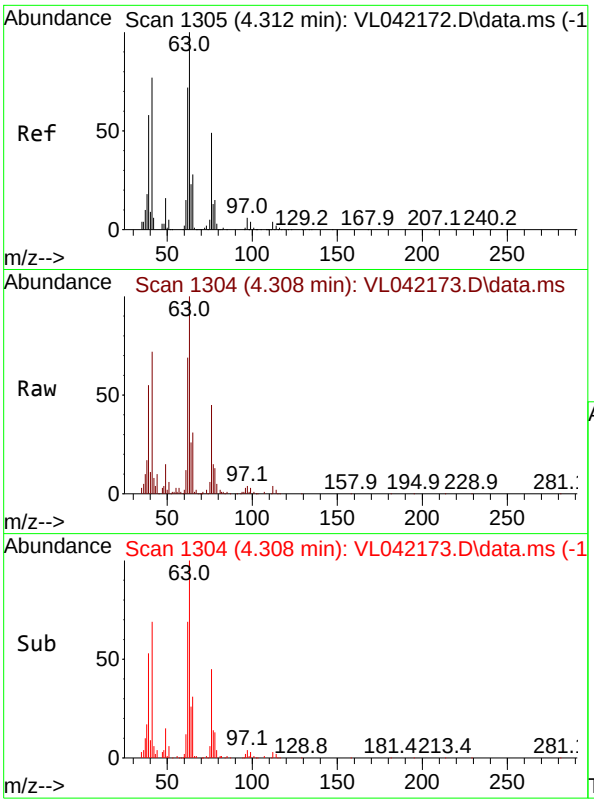




#38
Trichloroethene
Concen: 1.924 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. -0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:130 Resp: 43501

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 114.8 | 89.8 | 134.8 |
| 132 | 92.2 | 77.4 | 116.2 |
| 97 | 70.8 | 55.1 | 82.7 |



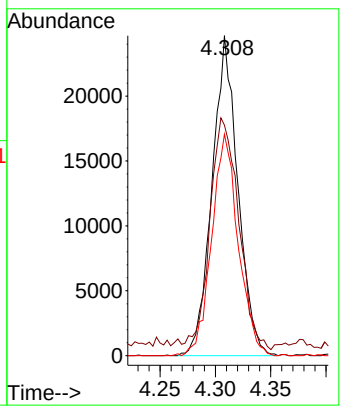


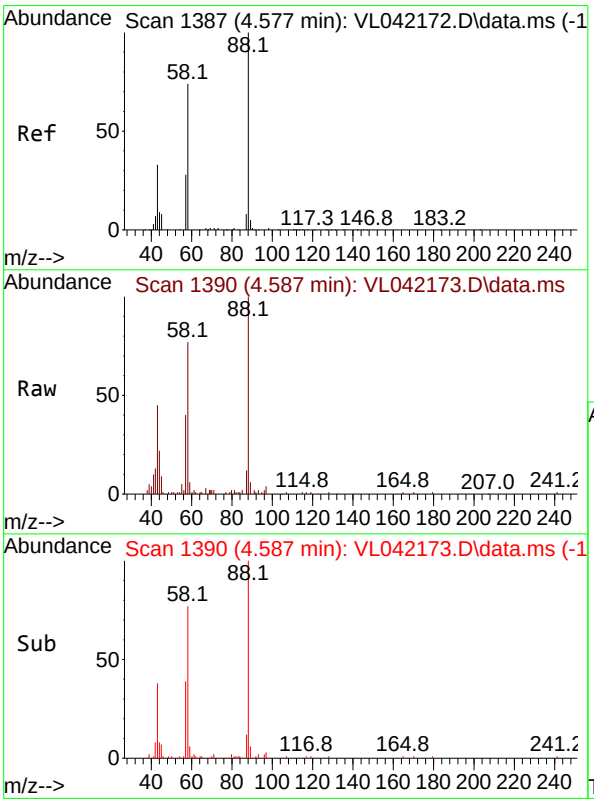

#39
1,2-Dichloropropane
Concen: 2.023 ppbv
RT: 4.308 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion: 63 Resp: 39912

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 68.6 | 61.7 | 92.5 |
| 62 | 69.2 | 57.6 | 86.4 |

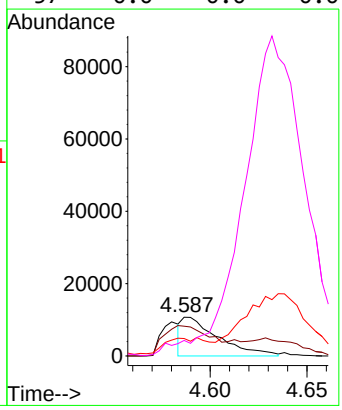


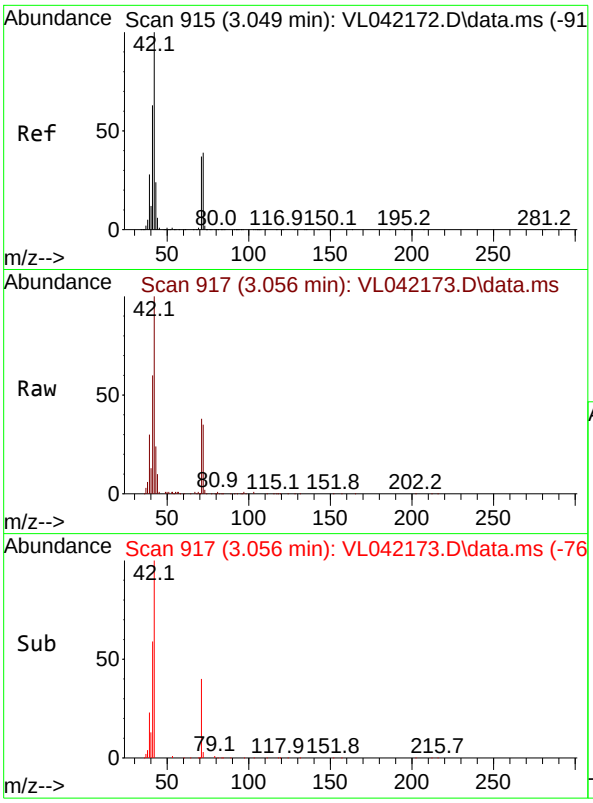




#40
1,4-Dioxane
Concen: 1.369 ppbv
RT: 4.587 min Scan# 1390
Delta R.T. 0.009 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 88 Resp: 14008

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 178.2 | 62.7 | 94.1# |
| 43 | 0.0 | 23.0 | 34.4# |
| 57 | 0.0 | 0.0 | 0.0 |



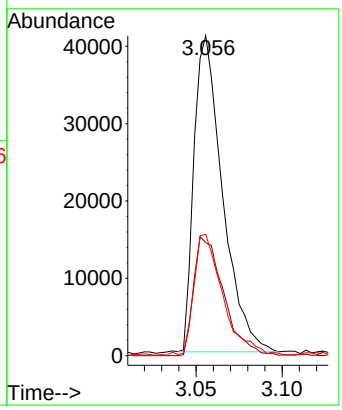


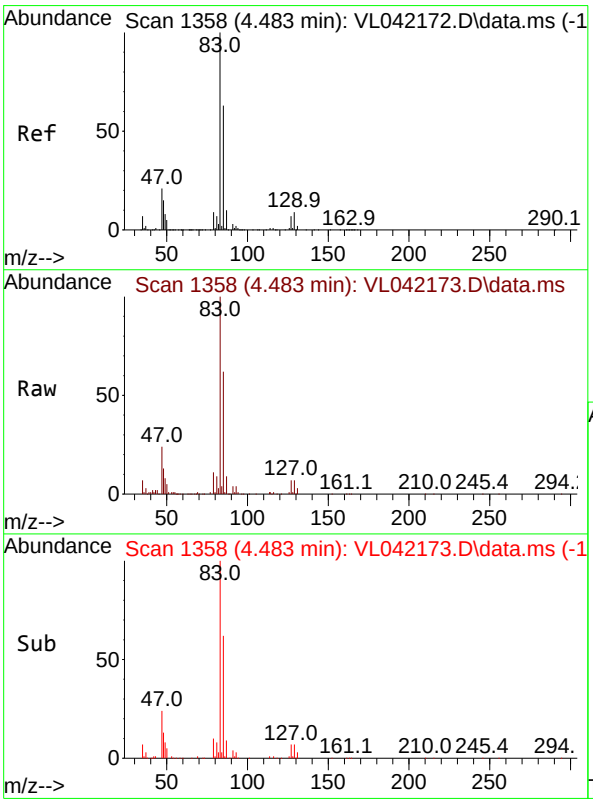

#41
Tetrahydrofuran
Concen: 2.097 ppbv
RT: 3.056 min Scan# 91
Delta R.T. 0.006 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion: 42 Resp: 47262

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 39.6 | 31.4 | 47.0 |
| 71 | 39.0 | 30.2 | 45.4 |

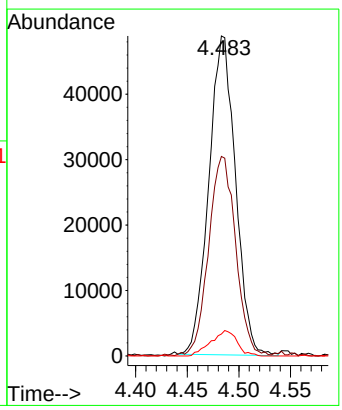


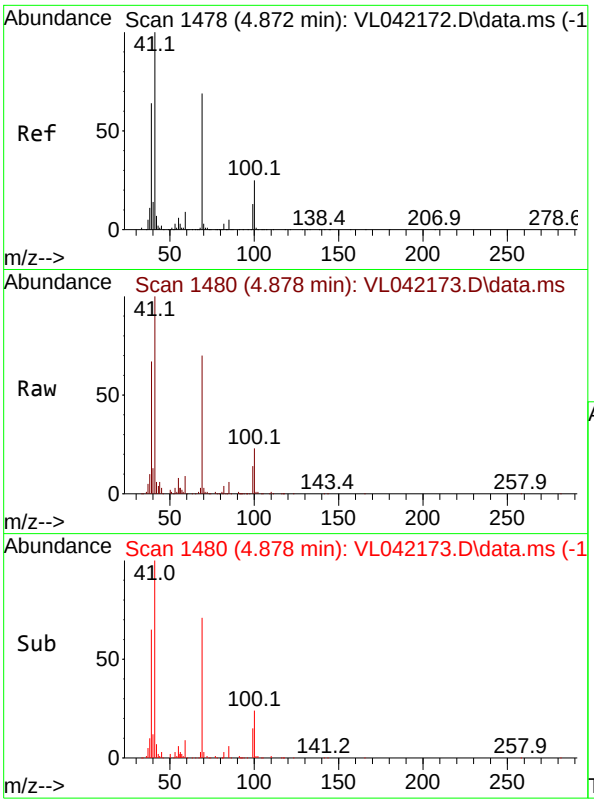




#42
Bromodichloromethane
Concen: 2.050 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 83 Resp: 87640

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.2 | 50.5 | 75.7 |
| 127 | 6.9 | 5.9 | 8.9 |



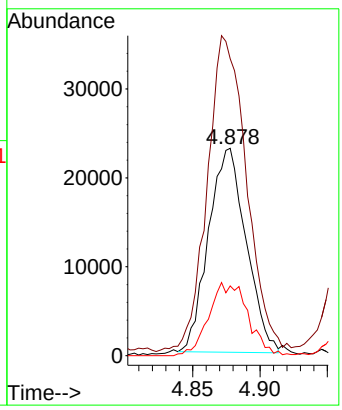


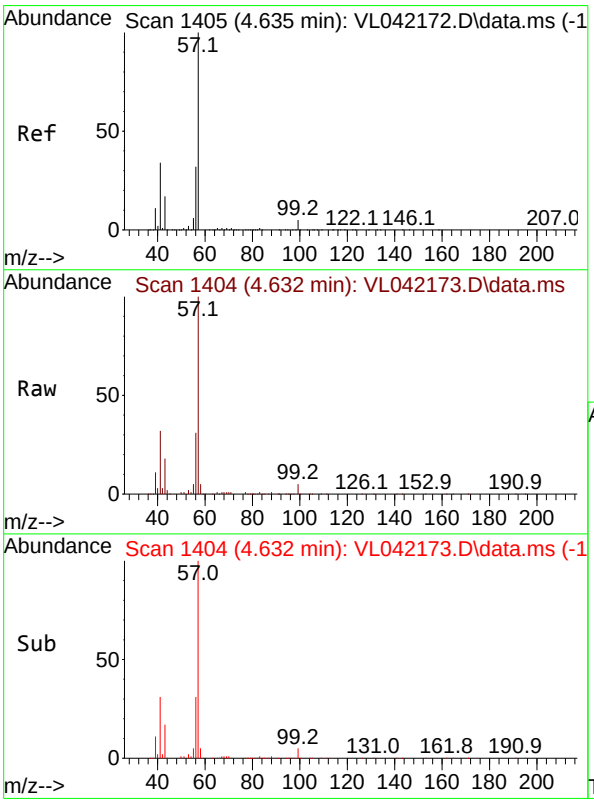

#43
Methyl Methacrylate
Concen: 1.952 ppbv
RT: 4.878 min Scan# 14
Delta R.T. 0.006 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion: 69 Resp: 44624

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 158.7 | 123.8 | 185.6 |
| 100 | 37.5 | 28.4 | 42.6 |

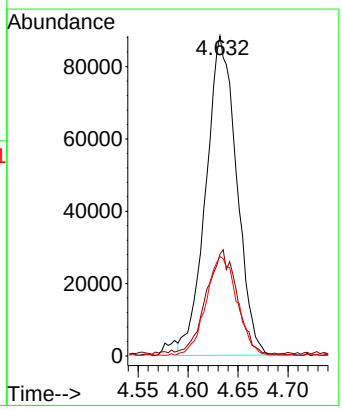


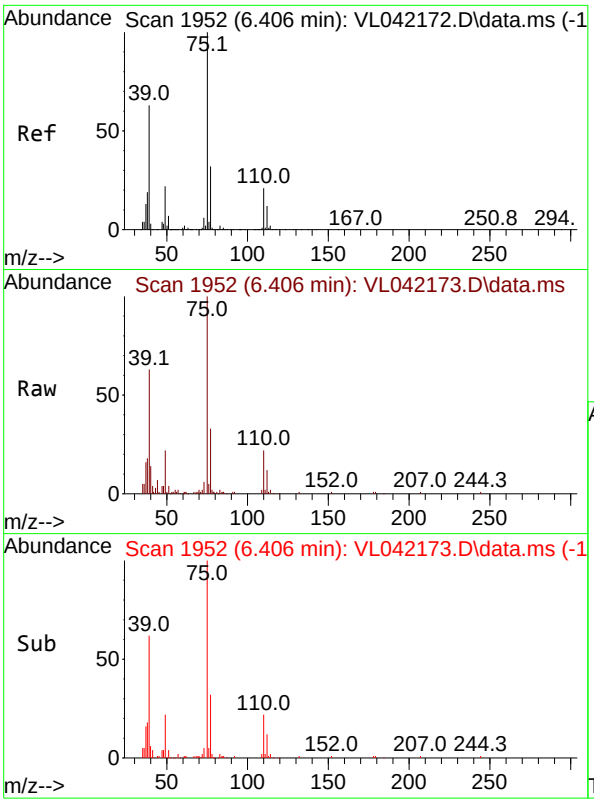




#44
2,2,4-Trimethylpentane
Concen: 2.057 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. -0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 57 Resp: 188282

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 33.8 | 26.8 | 40.2 |
| 56 | 31.8 | 25.6 | 38.4 |



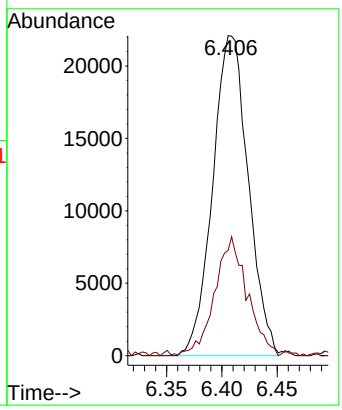


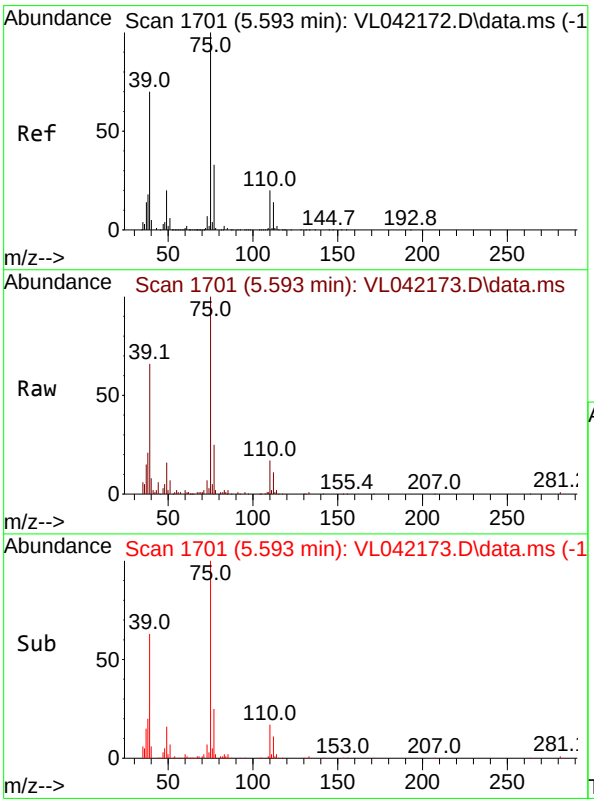

#45
t-1,3-Dichloropropene
Concen: 2.011 ppbv
RT: 6.406 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion: 75 Resp: 49461

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.9 | 26.0 | 39.0 |

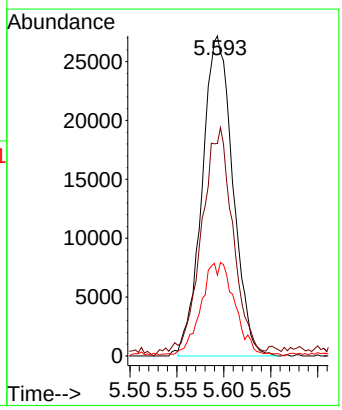


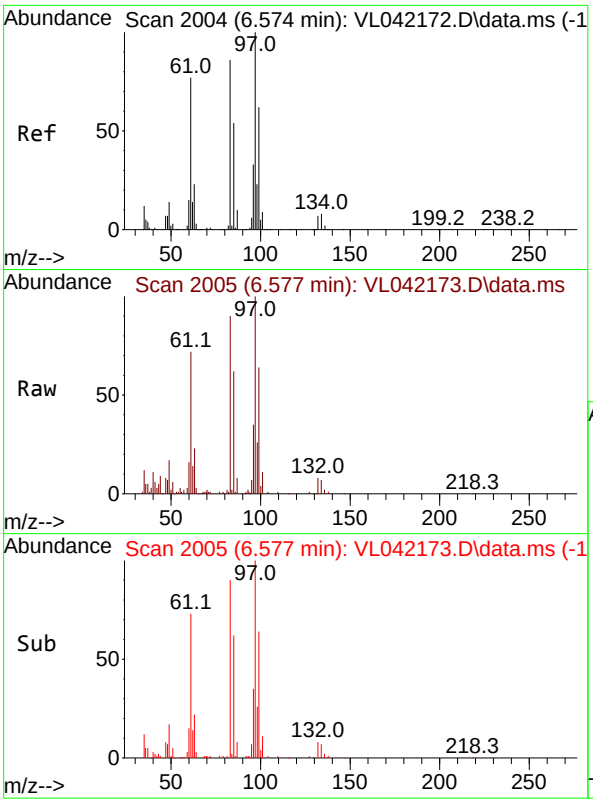




#46
cis-1,3-Dichloropropene
Concen: 2.050 ppbv
RT: 5.593 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 75 Resp: 61829

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 39 | 64.4 | 55.8 | 83.6 |
| 77 | 24.5 | 26.0 | 39.0# |



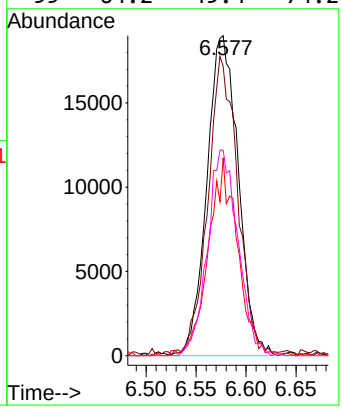


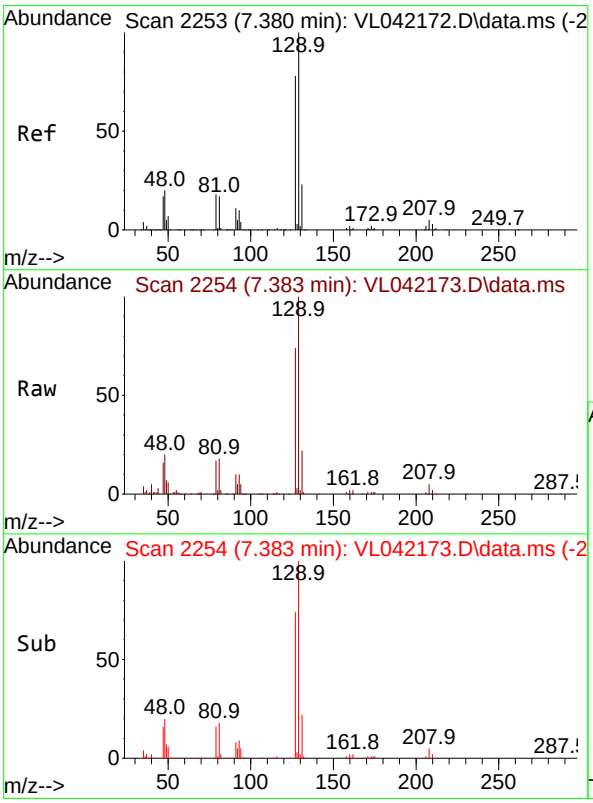

#47
1,1,2-Trichloroethane
Concen: 1.985 ppbv
RT: 6.577 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion: 97 Resp: 41387

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 89.4 | 69.2 | 103.8 |
| 85 | 61.3 | 43.1 | 64.7 |
| 99 | 64.2 | 49.4 | 74.2 |

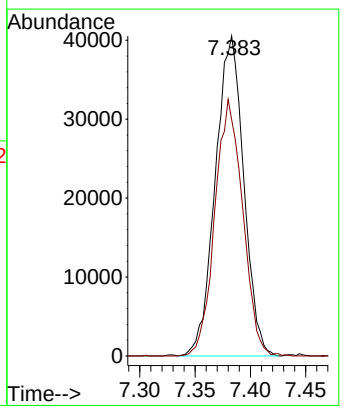


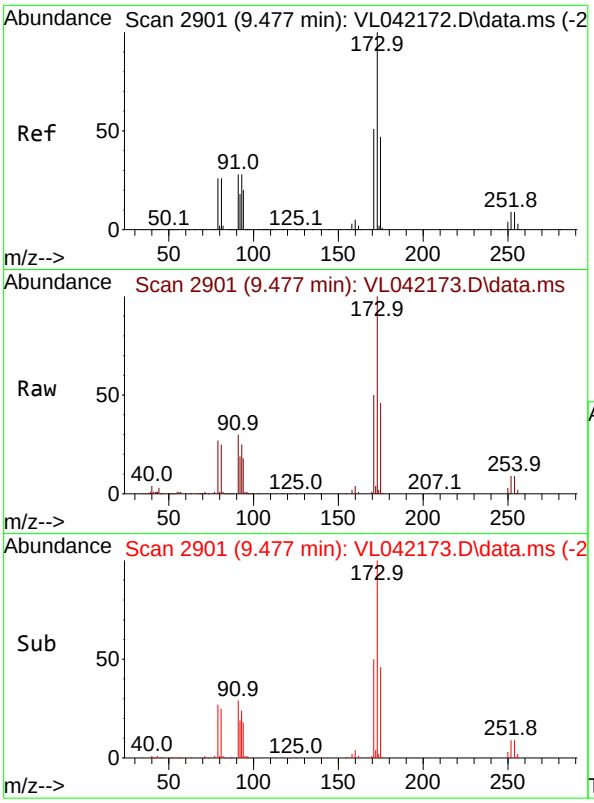




#48
Dibromochloromethane
Concen: 2.050 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. 0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:129 Resp: 72441

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.5 | 39.1 | 117.2 |



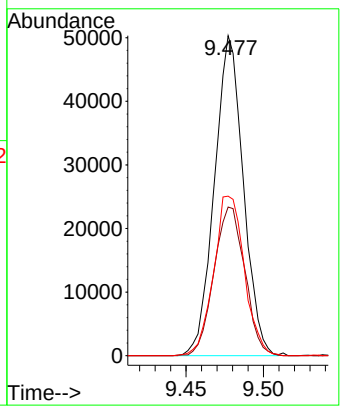


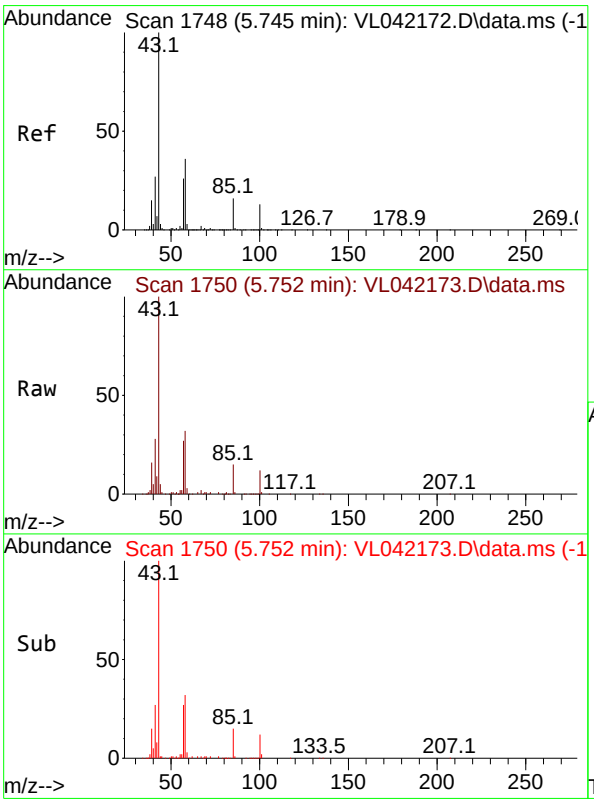

#49
Bromoform
Concen: 2.056 ppbv
RT: 9.477 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion:173 Resp: 65221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.7 | 38.6 | 57.8 |
| 171 | 53.0 | 41.8 | 62.6 |

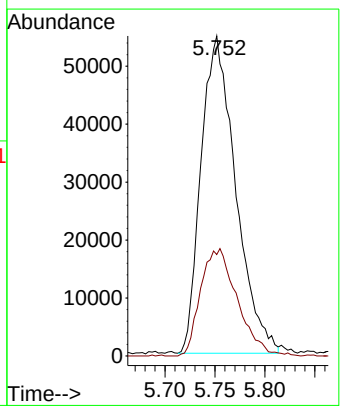


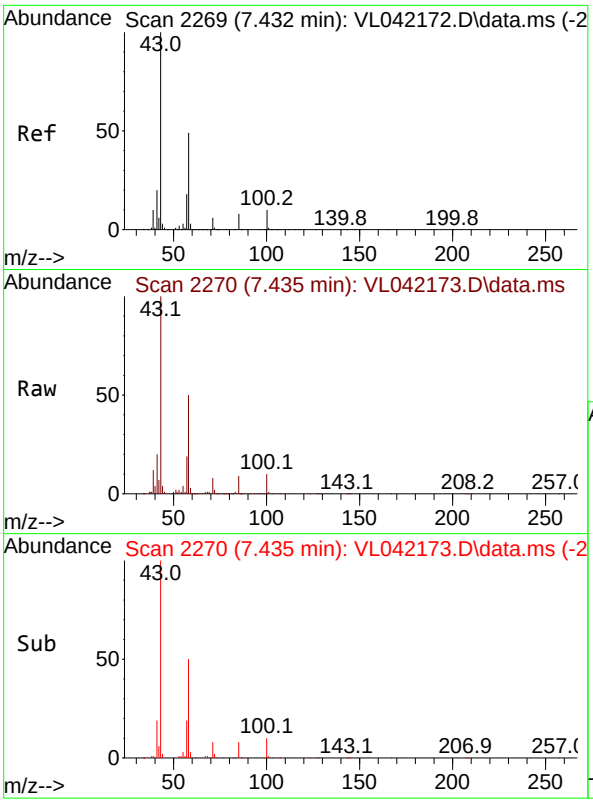




#50
4-Methyl-2-Pentanone
Concen: 2.107 ppbv
RT: 5.752 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 43 Resp: 132328

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 35.9 | 29.0 | 43.6 |



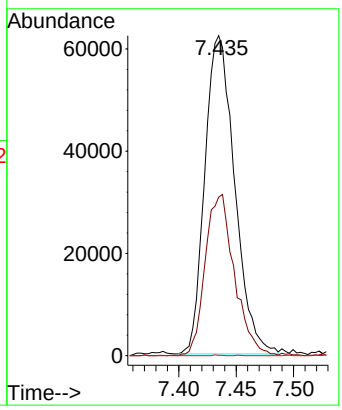


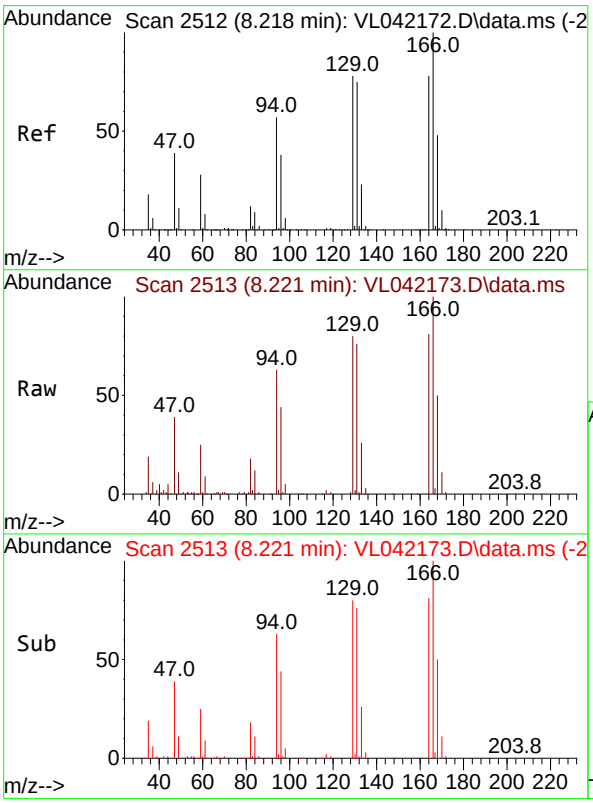

#51
2-Hexanone
Concen: 2.162 ppbv
RT: 7.435 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion: 43 Resp: 112681

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 50.0 | 39.7 | 59.5 |
| 98 | 0.0 | 0.1 | 0.1# |

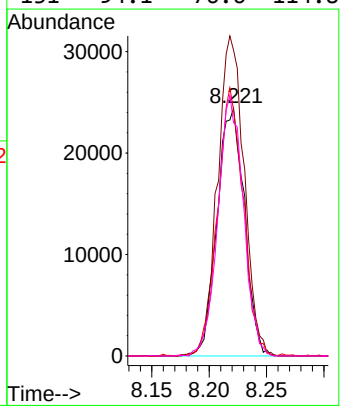


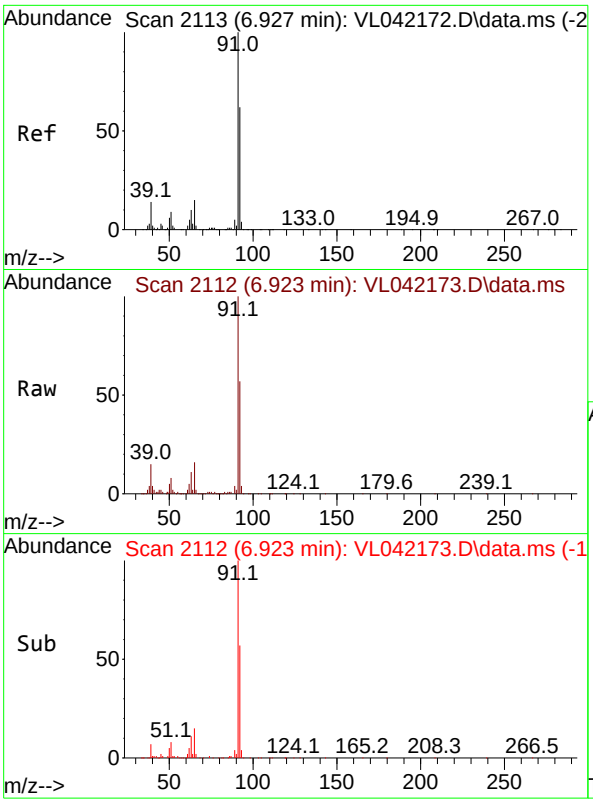




#52
Tetrachloroethene
Concen: 1.888 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. 0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:164 Resp: 40558

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 123.4 | 102.5 | 153.7 |
| 129 | 99.2 | 79.8 | 119.8 |
| 131 | 94.1 | 76.6 | 114.8 |



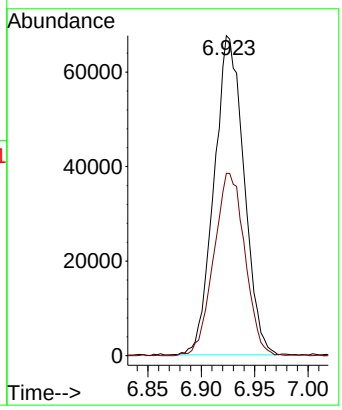


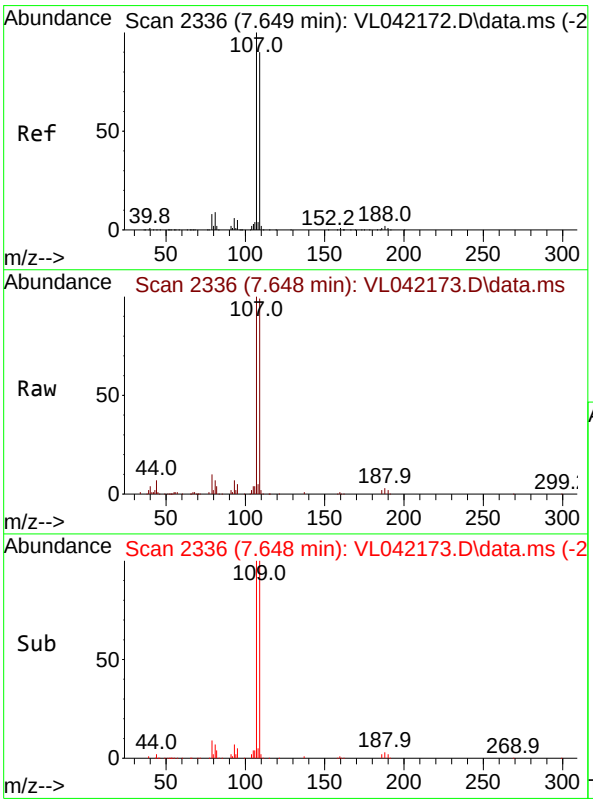

#53
Toluene
Concen: 2.045 ppbv
RT: 6.923 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion: 91 Resp: 131314

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 59.6 | 48.4 | 72.6 |

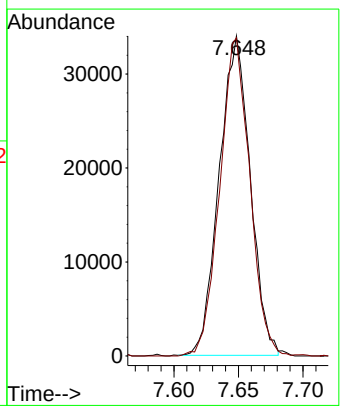


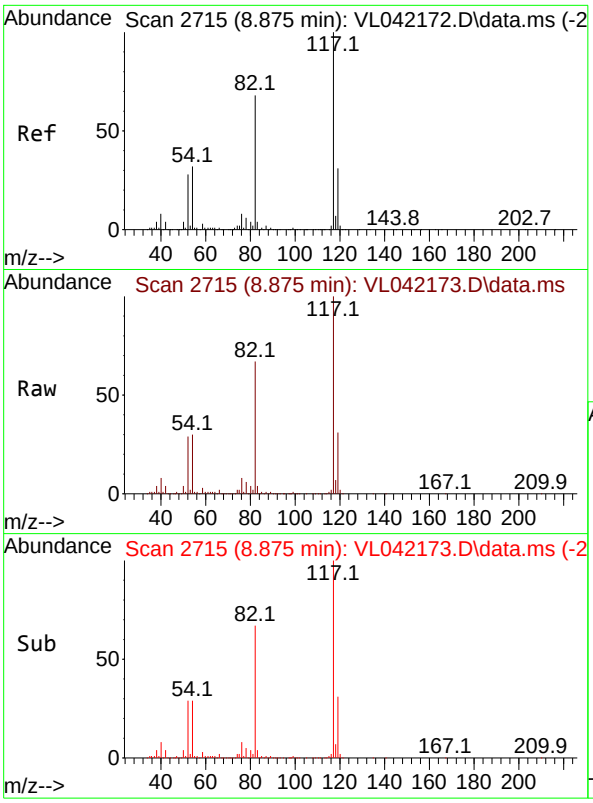




#54
1,2-Dibromoethane
Concen: 1.952 ppbv
RT: 7.648 min Scan# 2336
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:107 Resp: 56799

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 99.7 | 72.2 | 108.4 |



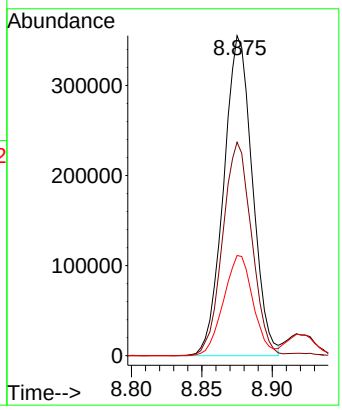


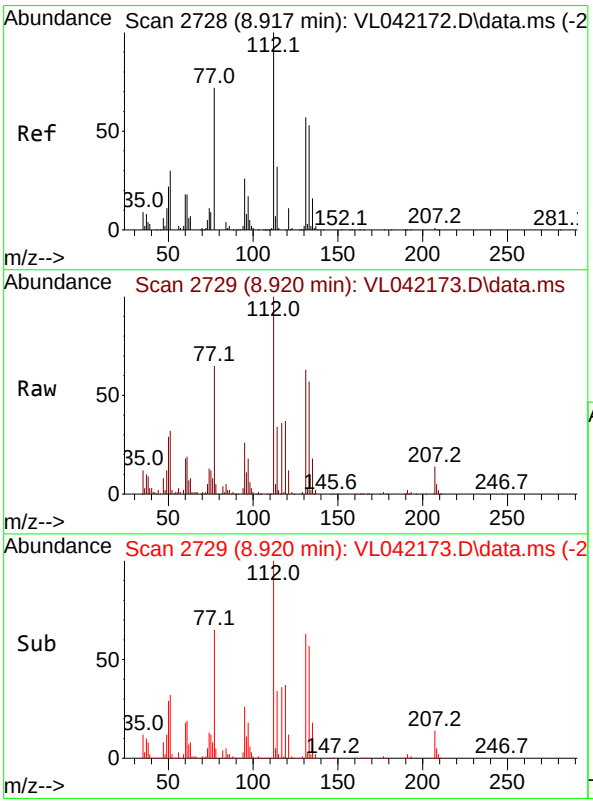

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion:117 Resp: 504538

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 68.2 | 55.8 | 83.6 |
| 119 | 33.0 | 25.5 | 38.3 |

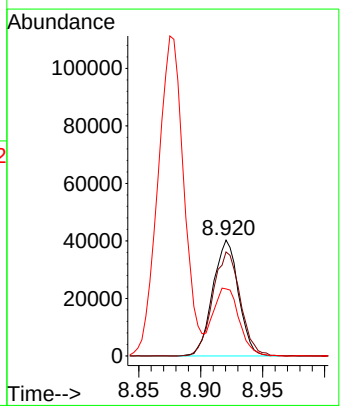


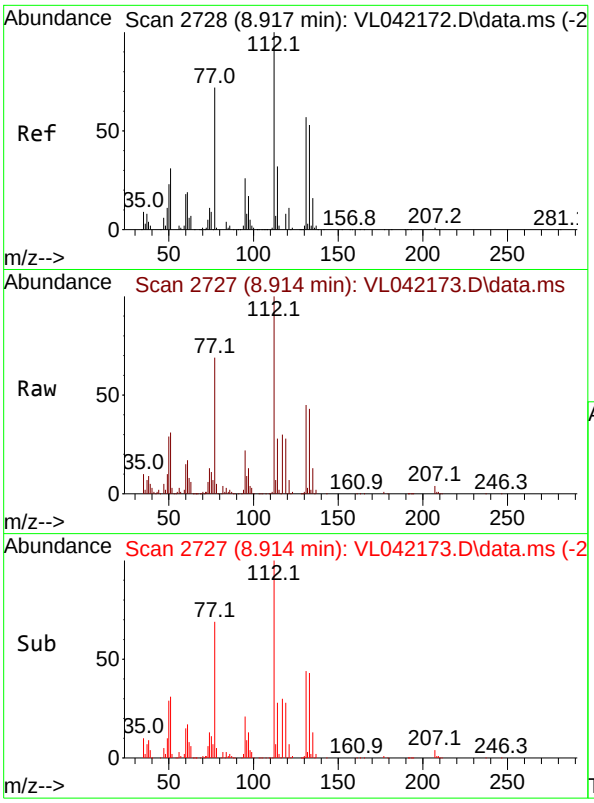




#56
1,1,1,2-Tetrachloroethane
Concen: 2.093 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. 0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:131 Resp: 58141

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 96.6 | 76.6 | 114.8 |
| 119 | 58.3 | 49.8 | 74.6 |



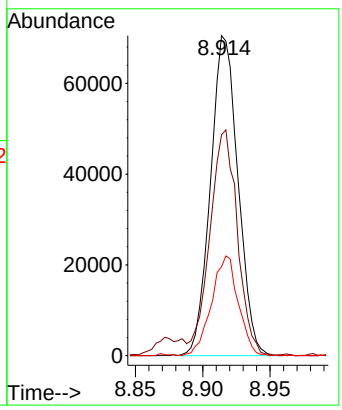


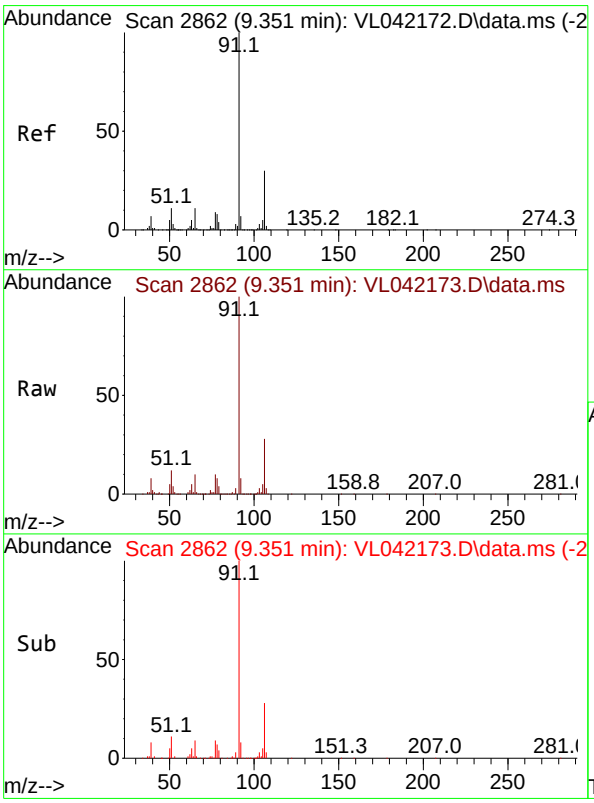

#57
Chlorobenzene
Concen: 2.096 ppbv
RT: 8.914 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion:112 Resp: 100308

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 68.8 | 58.2 | 87.2 |
| 114 | 27.8 | 29.1 | 35.5# |

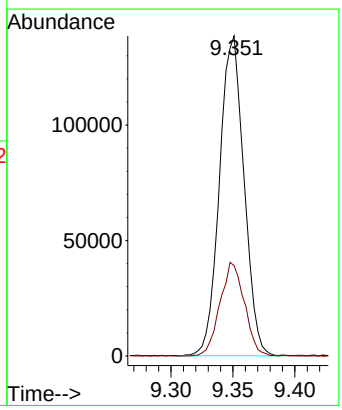


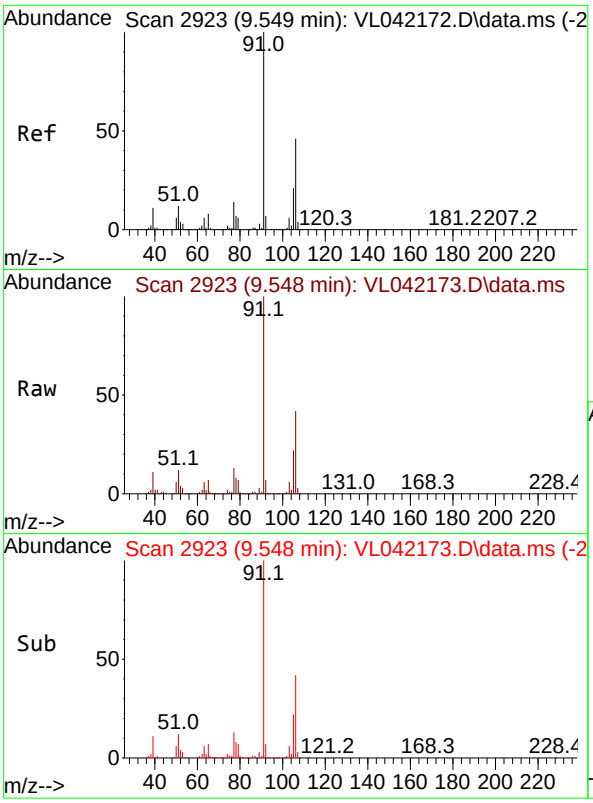




#58
Ethyl Benzene
Concen: 2.132 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 91 Resp: 191114

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 28.3 | 24.2 | 36.2 |



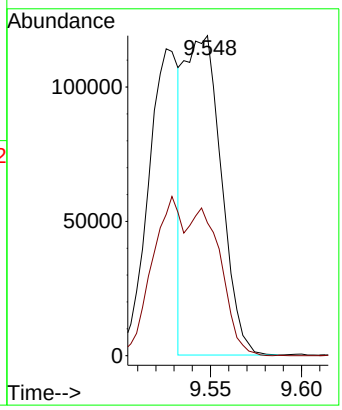


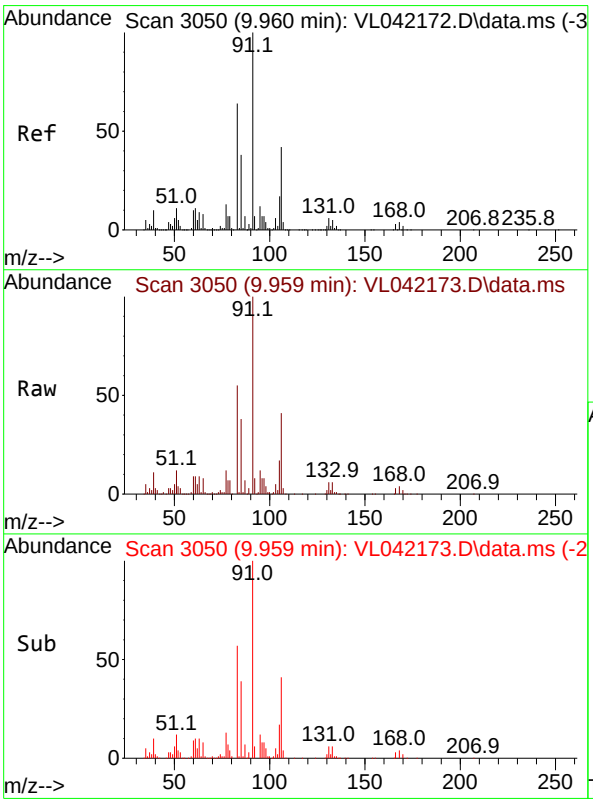

#59
m/p-Xylene
Concen: 2.333 ppbv
RT: 9.548 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion: 91 Resp: 167182

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 0.0 | 36.4 | 54.6# |

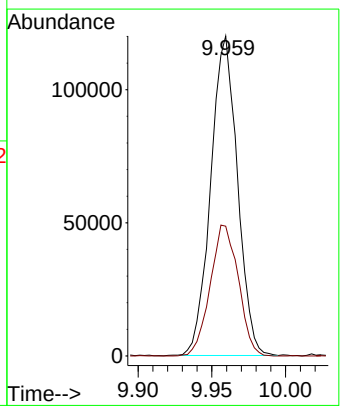


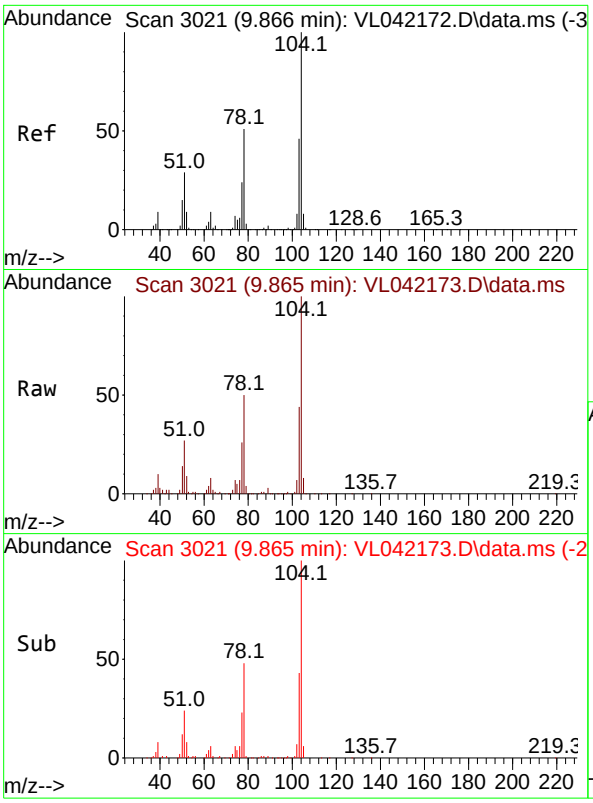




#60
o-Xylene
Concen: 2.109 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 91 Resp: 151292

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 43.2 | 20.8 | 62.5 |



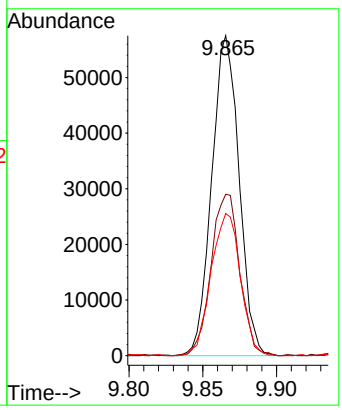


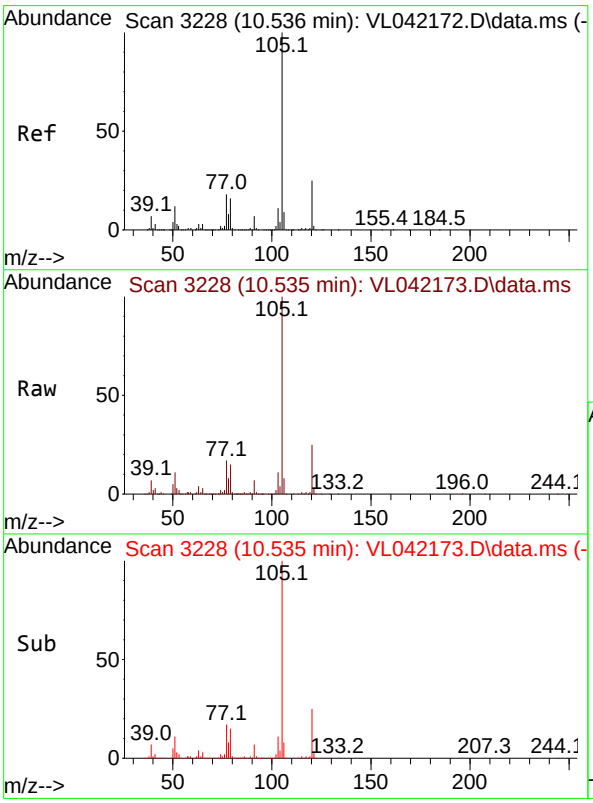

#61
Styrene
Concen: 2.089 ppbv
RT: 9.865 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion:104 Resp: 74134

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 52.8 | 41.8 | 62.6 |
| 103 | 47.8 | 37.0 | 55.4 |

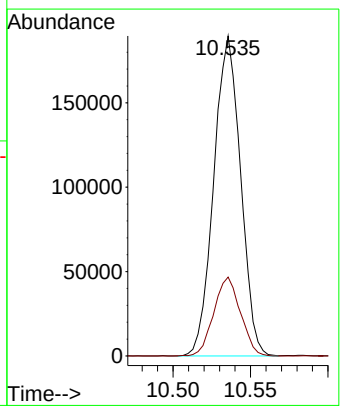


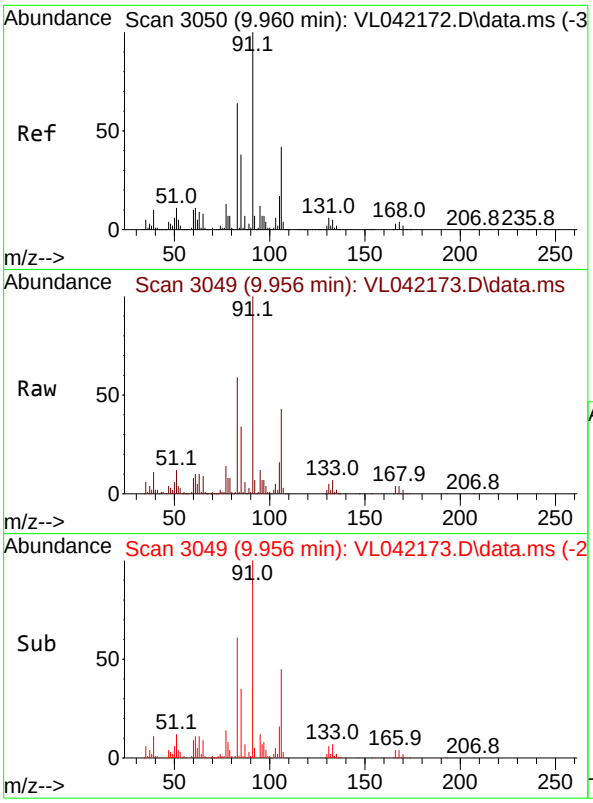




#62
Isopropylbenzene
Concen: 2.127 ppbv
RT: 10.535 min Scan# 3228
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:105 Resp: 228191

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 24.4 | 19.9 | 29.9 |



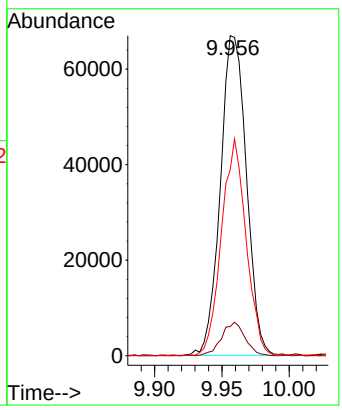


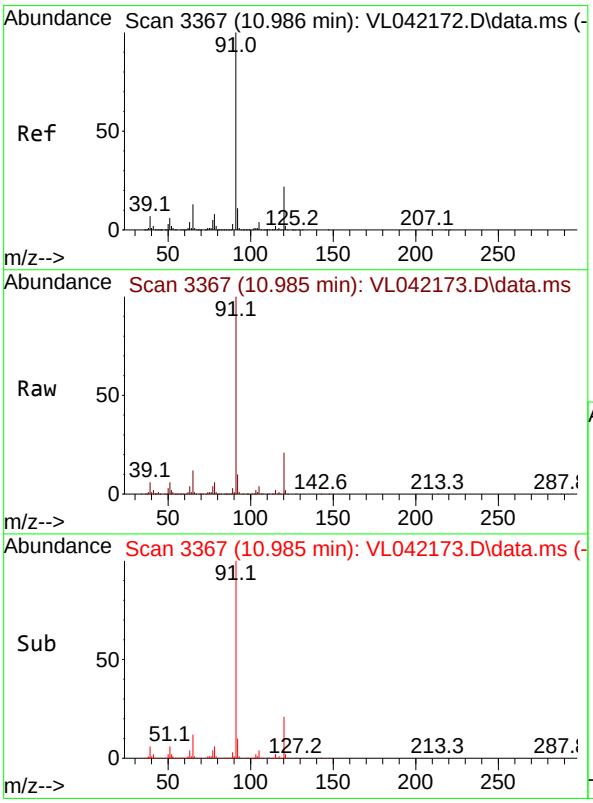

#63
1,1,2,2-Tetrachloroethane
Concen: 2.067 ppbv
RT: 9.956 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion: 83 Resp: 90114

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.5 | 4.8 | 14.4 |
| 85 | 64.4 | 32.5 | 97.5 |

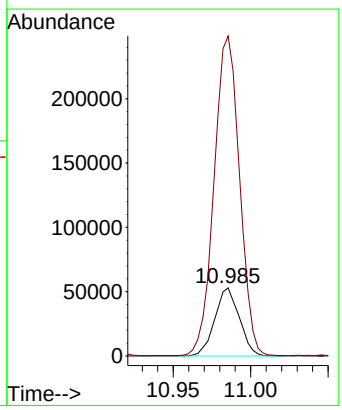


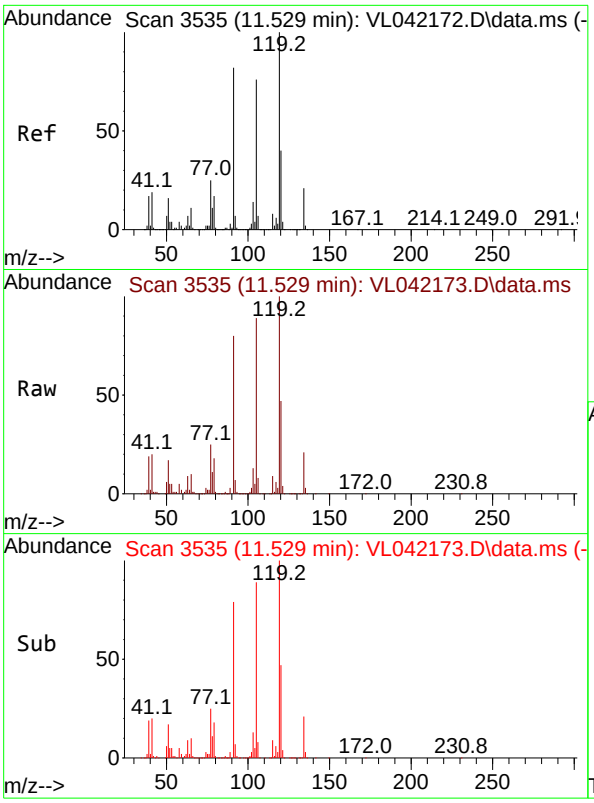




#64
n-propylbenzene
Concen: 2.104 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:120 Resp: 58105

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 491.1 | 376.9 | 565.3 |



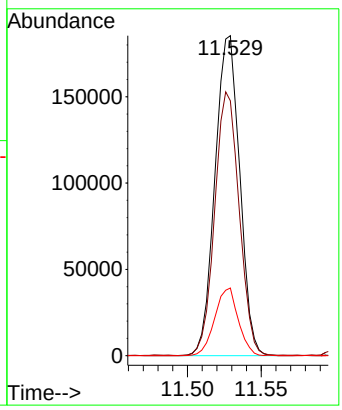


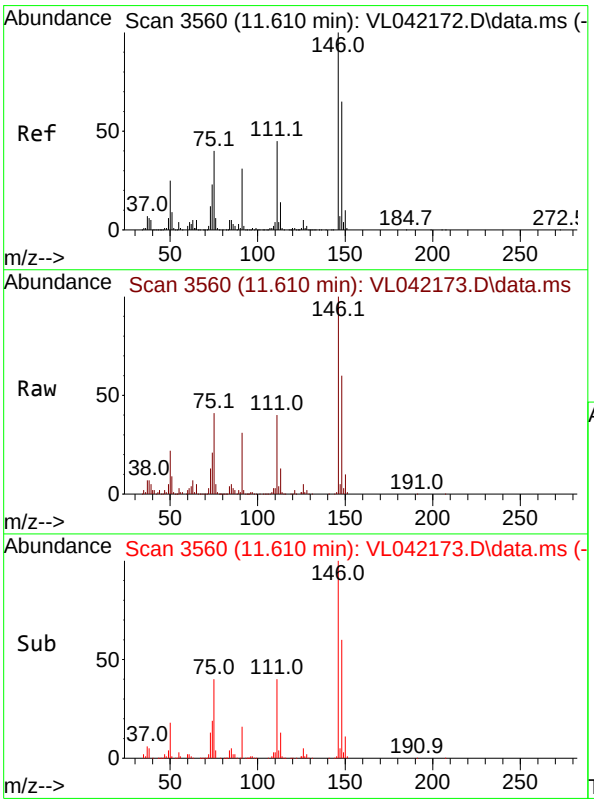

#65
tert-Butylbenzene
Concen: 2.180 ppbv
RT: 11.529 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion:119 Resp: 216336

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 81.5 | 66.0 | 99.0 |
| 134 | 20.2 | 16.7 | 25.1 |

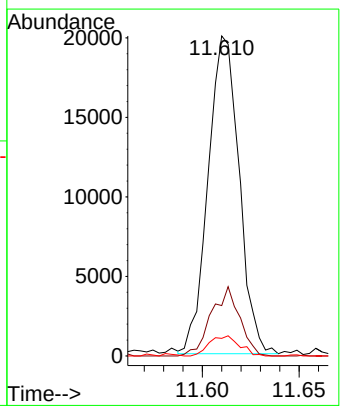


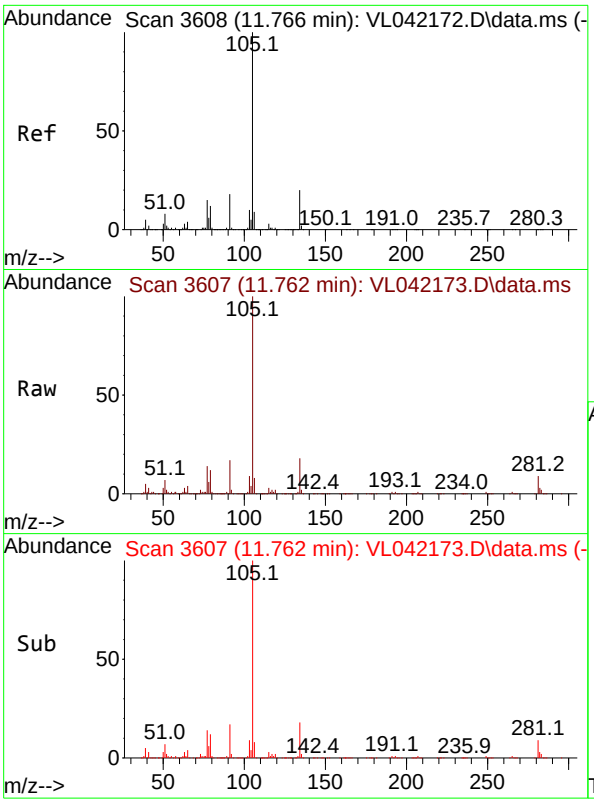




#66
Benzyl Chloride
Concen: 2.116 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 91 Resp: 22272

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 20.0 | 13.8 | 20.6 |
| 128 | 6.5 | 4.5 | 6.7 |



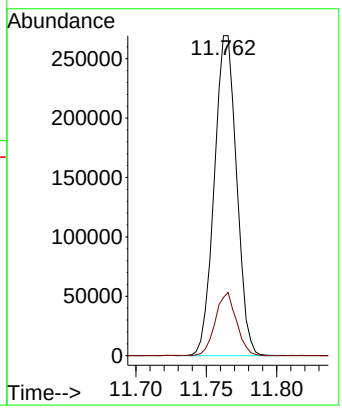


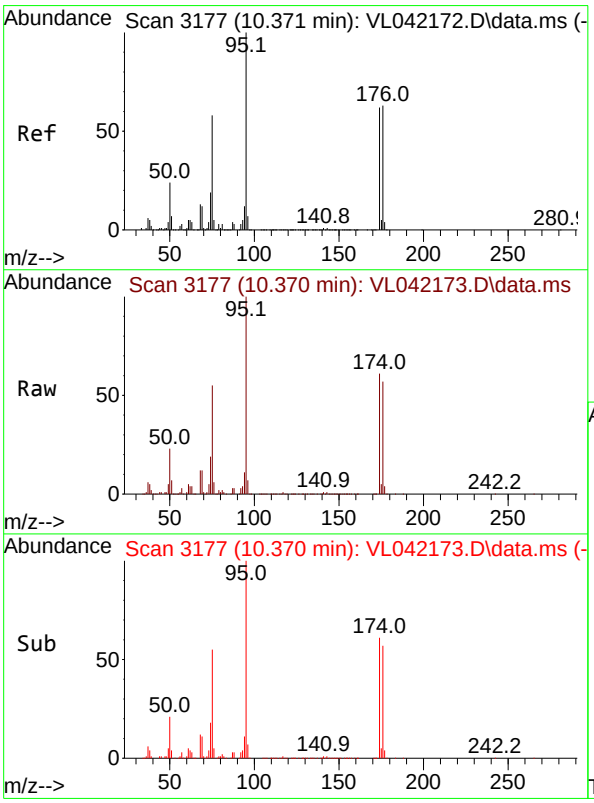

#67
sec-Butylbenzene
Concen: 2.156 ppbv
RT: 11.762 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion:105 Resp: 297381

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 18.8 | 15.5 | 23.3 |

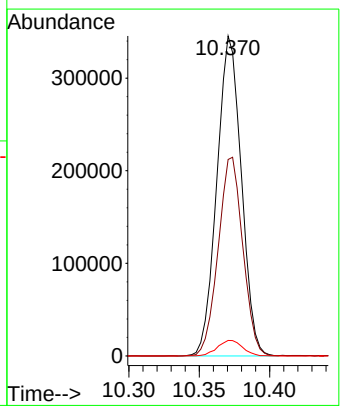


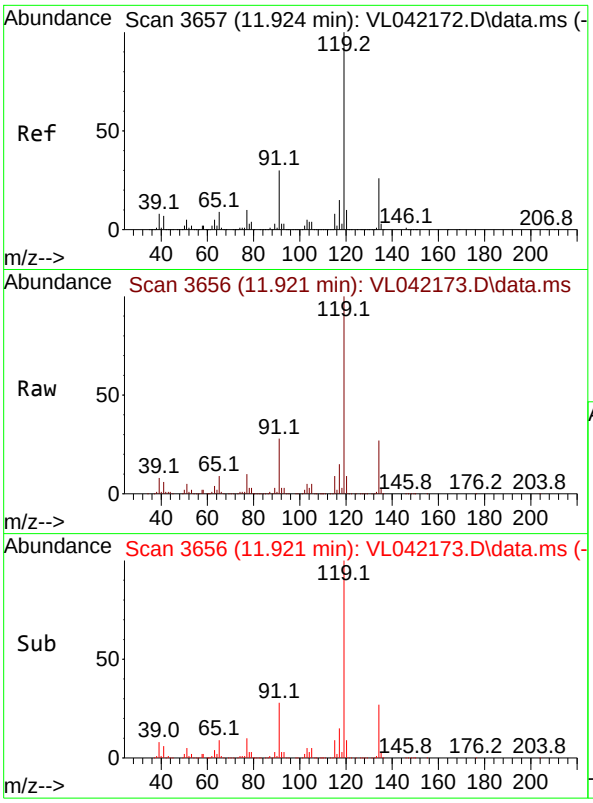




#68
1-Bromo-4-Fluorobenzene
Concen: 10.077 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 95 Resp: 417532

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 62.6 | 50.6 | 76.0 |
| 175 | 5.0 | 3.8 | 5.6 |



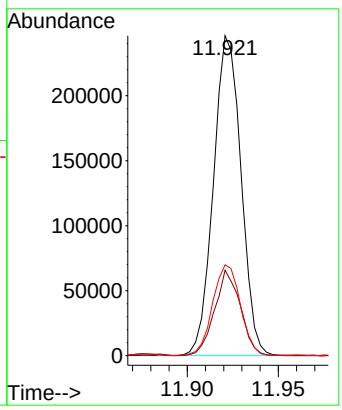


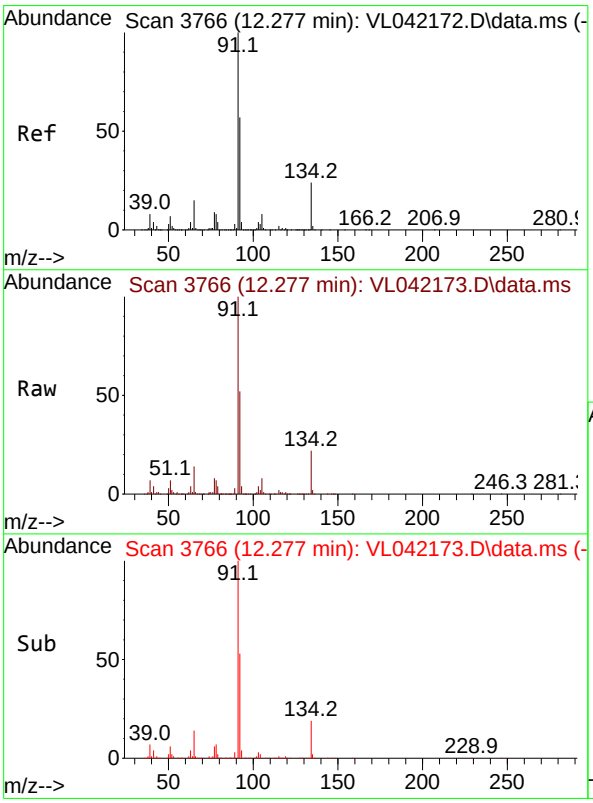

#69
p-Isopropyltoluene
Concen: 2.176 ppbv
RT: 11.921 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion:119 Resp: 258357

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.2 | 20.4 | 30.6 |
| 91 | 29.5 | 23.7 | 35.5 |

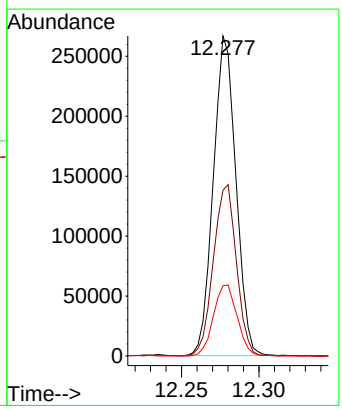


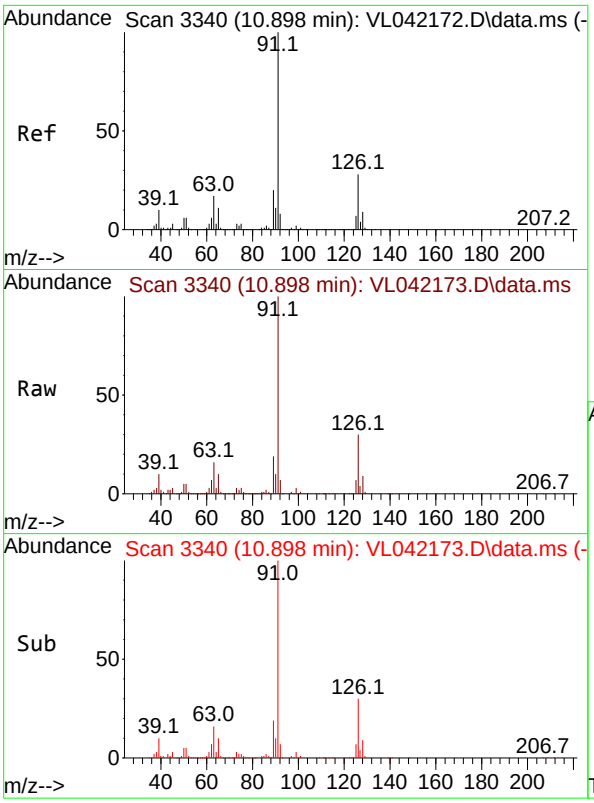




#70
n-Butylbenzene
Concen: 2.228 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 91 Resp: 270616

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 55.1 | 44.9 | 67.3 |
| 134 | 23.3 | 19.2 | 28.8 |



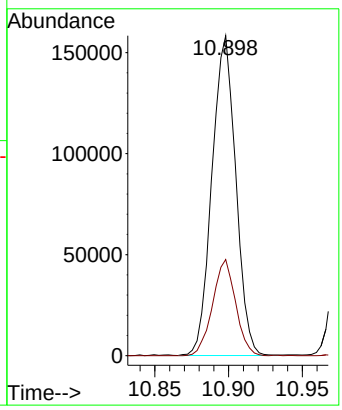


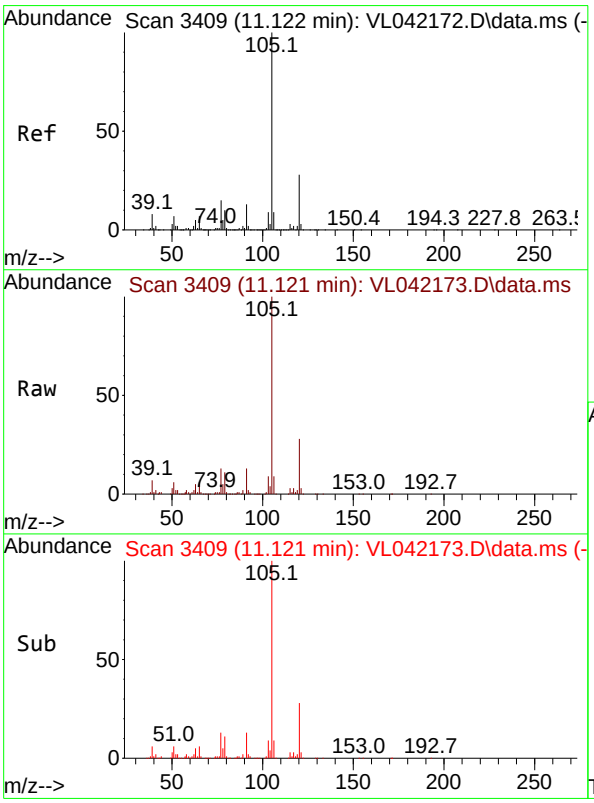

#71
2-Chlorotoluene
Concen: 2.132 ppbv
RT: 10.898 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion: 91 Resp: 177487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 29.2 | 11.6 | 46.4 |

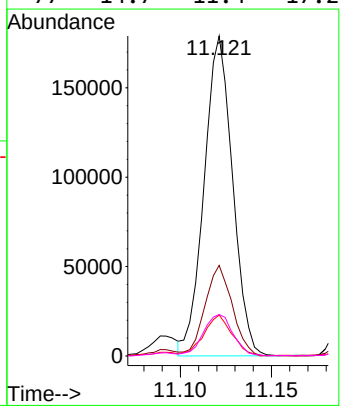


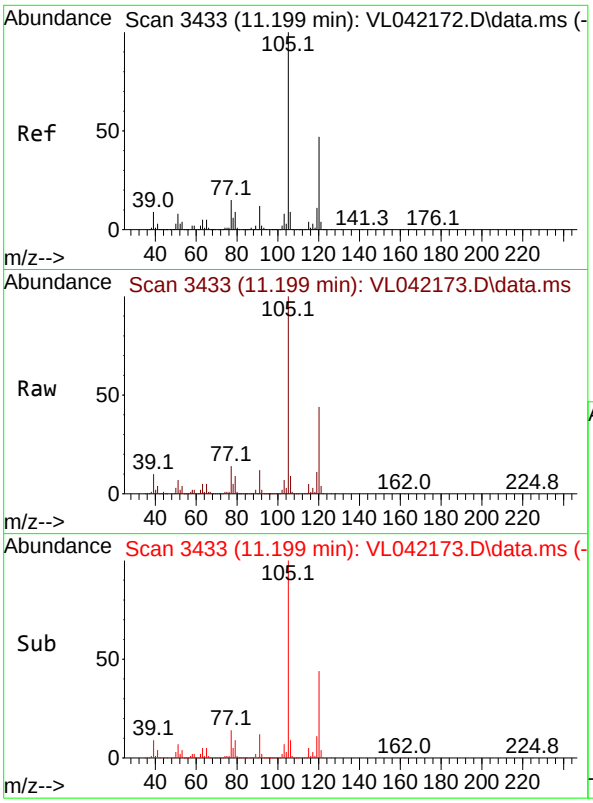




#72
4-Ethyltoluene
Concen: 2.179 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:105 Resp: 194660

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 29.1 | 23.4 | 35.0 |
| 91 | 13.7 | 10.3 | 15.5 |
| 77 | 14.7 | 11.4 | 17.2 |



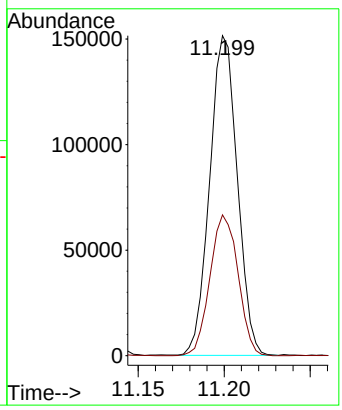


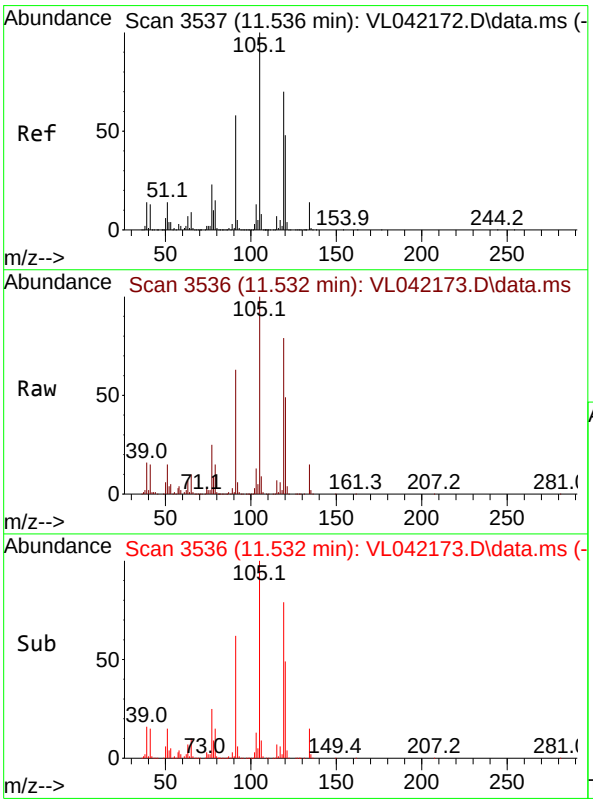

#73
1,3,5-Trimethylbenzene
Concen: 2.169 ppbv
RT: 11.199 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion:105 Resp: 169221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.0 | 37.4 | 56.0 |

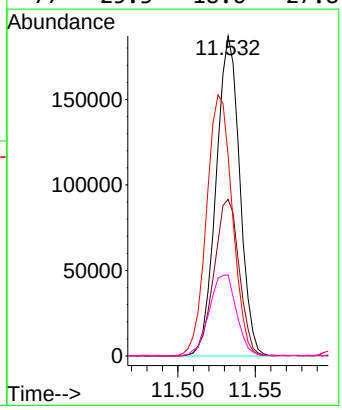


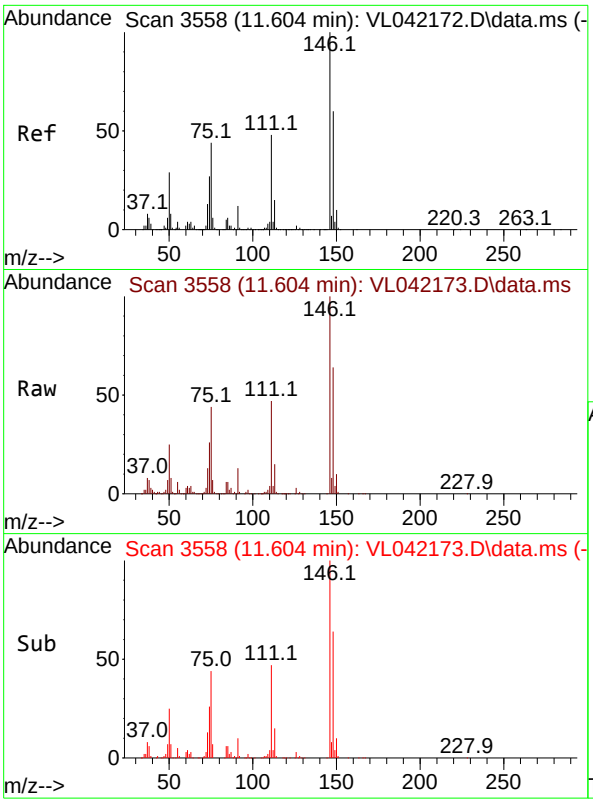




#74
1,2,4-Trimethylbenzene
Concen: 2.207 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:105 Resp: 198351

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 49.0 | 38.6 | 58.0 |
| 91 | 62.4 | 46.2 | 69.2 |
| 77 | 25.3 | 18.6 | 27.8 |



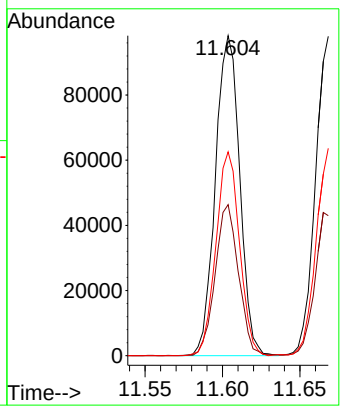


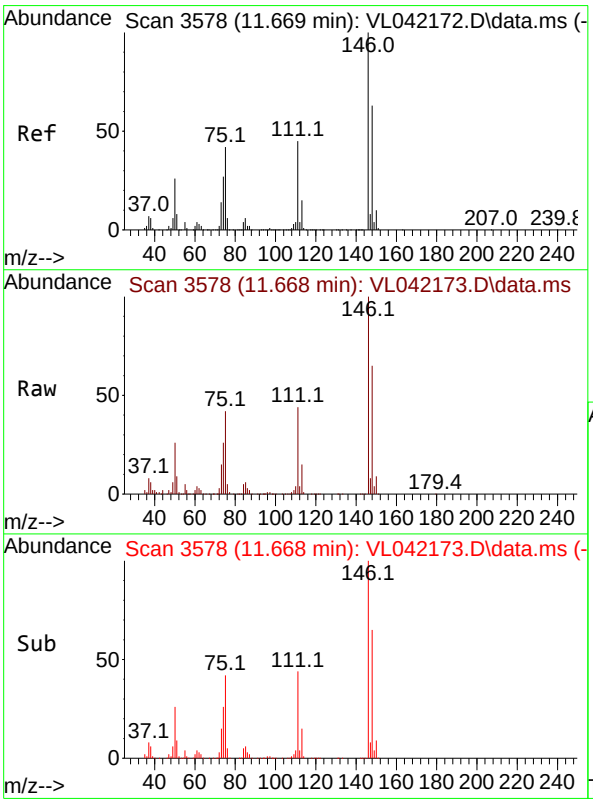

#75
1,3-Dichlorobenzene
Concen: 2.175 ppbv
RT: 11.604 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion:146 Resp: 107217

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 45.5 | 23.8 | 71.2 |
| 148 | 61.6 | 31.9 | 95.9 |

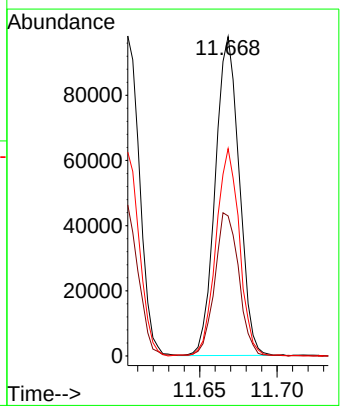


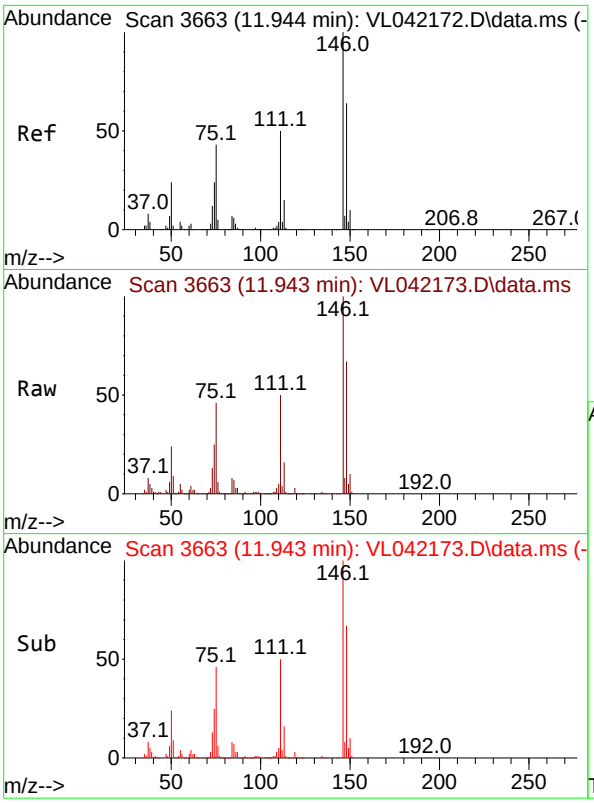




#76
1,4-Dichlorobenzene
Concen: 2.139 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:146 Resp: 104925

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 45.3 | 23.0 | 69.0 |
| 148 | 64.0 | 31.9 | 95.7 |



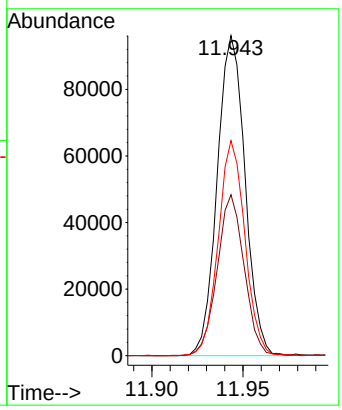


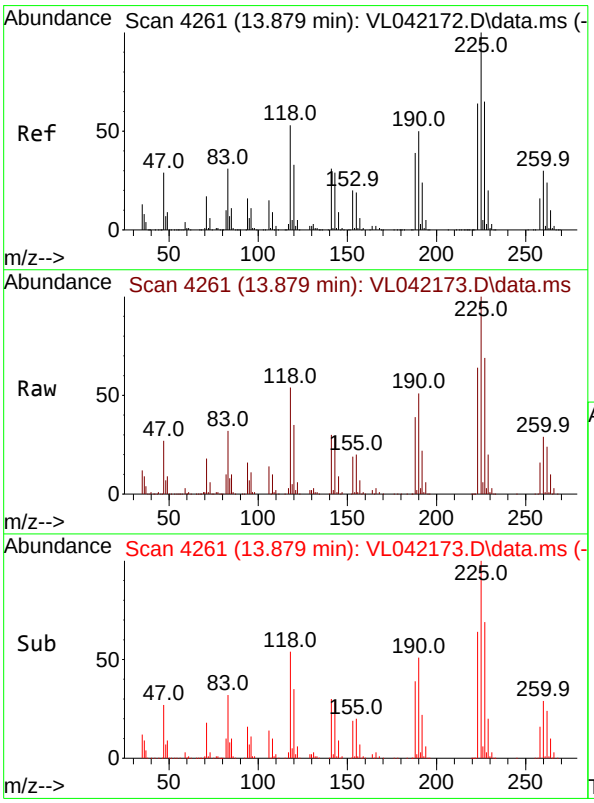

#77
1,2-Dichlorobenzene
Concen: 2.132 ppbv
RT: 11.943 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion:146 Resp: 102310

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 48.8 | 24.8 | 74.3 |
| 148 | 64.6 | 31.6 | 94.8 |

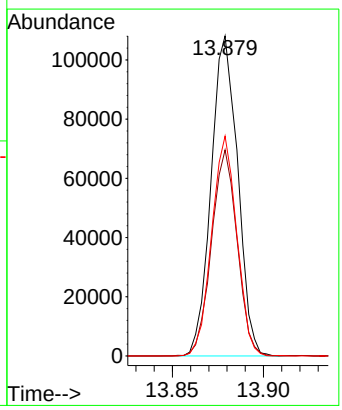


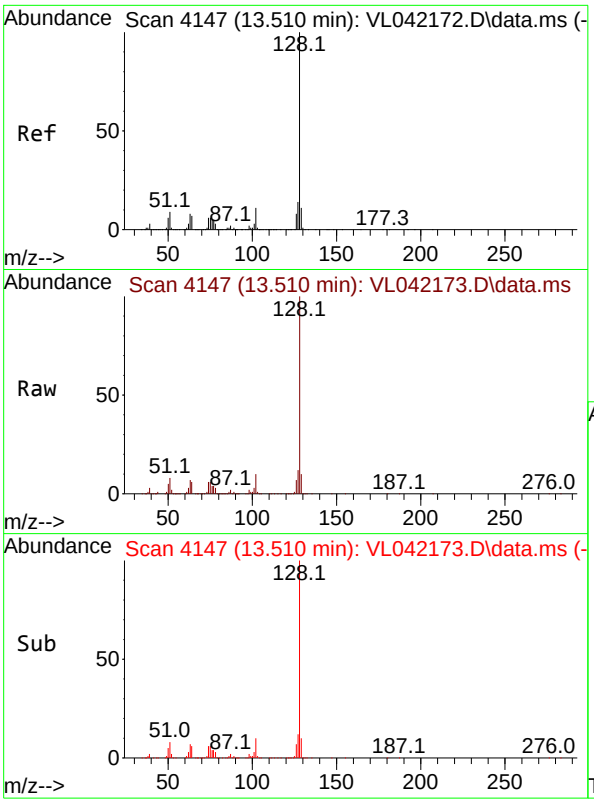




#78
Hexachloro-1,3-Butadiene
Concen: 2.242 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:225 Resp: 109539

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.2 | 50.6 | 76.0 |
| 227 | 64.9 | 51.2 | 76.8 |



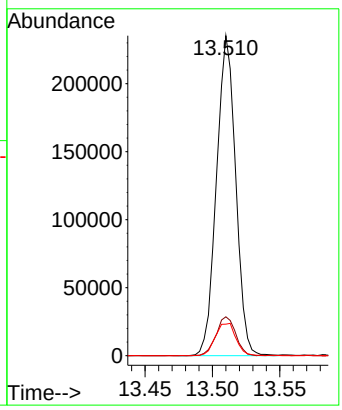


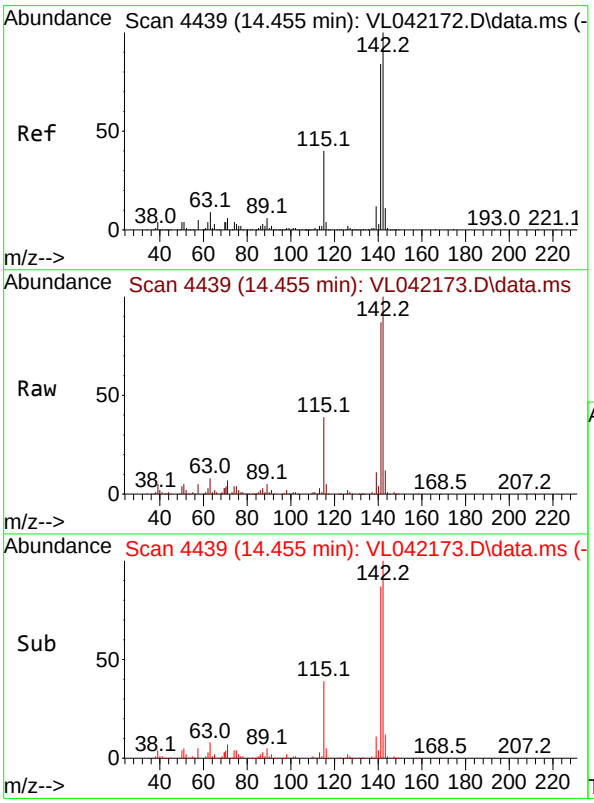

#79
Naphthalene
Concen: 2.375 ppbv
RT: 13.510 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion:128 Resp: 233451

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.1 | 10.8 | 16.2 |
| 129 | 9.9 | 9.0 | 13.4 |

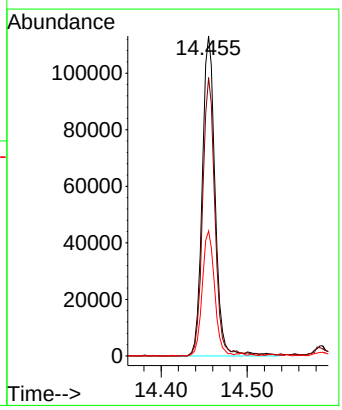


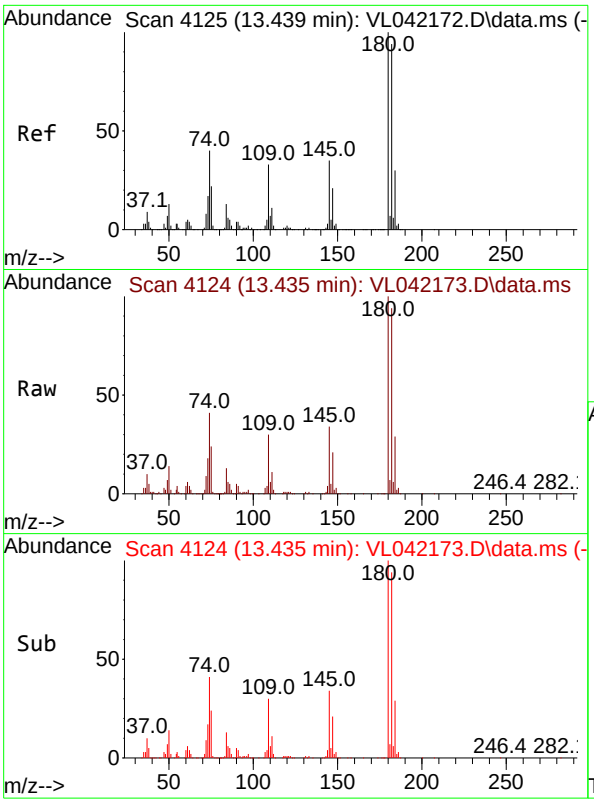




#80
Naphthalene,2-methyl-
Concen: 2.451 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:142 Resp: 117313

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 83.5 | 66.3 | 99.5 |
| 115 | 38.5 | 31.6 | 47.4 |



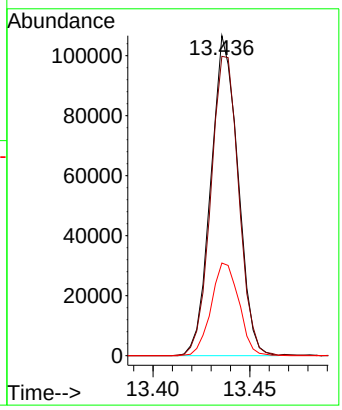



#81
1,2,4-Trichlorobenzene
Concen: 2.288 ppbv
RT: 13.435 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion:180 Resp: 103765

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 97.0 | 75.1 | 112.7 |
| 184 | 29.6 | 24.4 | 36.6 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042174.D
Acq On : 27 Mar 2025 09:30
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Quant Time: Mar 28 01:33:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 2.784 | 49 | 186244 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.952 | 114 | 537244 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.879 | 117 | 499830 | 10.000 | ppbv | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.371 | 95 | 404753 | 9.861 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 98.600% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.496 | 85 | 28203 | 1.026 | ppbv | | 99 |
| 3) Chlorodifluoromethane | 1.473 | 51 | 28693 | 1.021 | ppbv | | 94 |
| 4) Chloromethane | 1.531 | 50 | 11111 | 0.989 | ppbv | | 99 |
| 5) Vinyl Chloride | 1.577 | 62 | 10723 | 0.936 | ppbv | | 98 |
| 6) Bromomethane | 1.667 | 94 | 4984 | 0.979 | ppbv | | 97 |
| 7) Chloroethane | 1.703 | 64 | 4622 | 1.025 | ppbv | | 100 |
| 8) Dichlorotetrafluoroethane | 1.554 | 85 | 23886 | 1.020 | ppbv | | 98 |
| 9) Propene | 1.884 | 41 | 1465 | 0.116 | ppbv | | 99 |
| 10) Heptane | 4.975 | 43 | 36132 | 1.055 | ppbv | | 100 |
| 11) Trichlorofluoromethane | 1.875 | 101 | 27136 | 1.014 | ppbv | | 96 |
| 12) 1,1,2-Trichlorotrifluo... | 2.137 | 101 | 22629 | 1.029 | ppbv | | 99 |
| 13) Ethanol | 1.719 | 45 | 935 | 0.943 | ppbv | # | 1 |
| 14) Bromoethene | 1.781 | 108 | 8330 | 0.989 | ppbv | # | 82 |
| 15) Acetone | 1.836 | 43 | 29294 | 1.125 | ppbv | | 95 |
| 16) 1,3-Butadiene | 1.606 | 39 | 13133 | 1.121 | ppbv | | 97 |
| 17) tert-Butyl alcohol | 2.040 | 59 | 33500 | 1.033 | ppbv | | 97 |
| 18) 1,1-Dichloroethene | 2.033 | 96 | 10532 | 1.024 | ppbv | | 89 |
| 19) Isopropyl Alcohol | 1.884 | 45 | 14903 | 1.014 | ppbv | # | 38 |
| 20) Methylene Chloride | 2.059 | 84 | 10481 | 1.080 | ppbv | | 93 |
| 21) Allyl Chloride | 2.095 | 41 | 19039 | 1.036 | ppbv | | 99 |
| 22) trans-1,2-Dichloroethene | 2.033 | 96 | 10532 | 0.877 | ppbv | | 86 |
| 23) Vinyl Acetate | 2.464 | 43 | 10644 | 0.983 | ppbv | # | 85 |
| 24) 1,1-Dichloroethane | 2.409 | 63 | 22505 | 1.022 | ppbv | | 99 |
| 25) Ethyl Acetate | 2.836 | 43 | 67402 | 0.997 | ppbv | # | 96 |
| 26) Hexane | 2.823 | 57 | 27223 | 1.043 | ppbv | | 98 |
| 27) Carbon Disulfide | 2.146 | 76 | 28167 | 1.006 | ppbv | # | 47 |
| 28) Methyl tert-Butyl Ether | 2.441 | 73 | 16501 | 1.015 | ppbv | | 95 |
| 29) Chloroform | 2.845 | 83 | 38516 | 1.008 | ppbv | | 96 |
| 30) Cyclohexane | 3.852 | 84 | 23052 | 1.016 | ppbv | | 97 |
| 31) cis-1,2-Dichloroethene | 2.716 | 61 | 27187 | 1.026 | ppbv | | 89 |
| 32) 1,1,1-Trichloroethane | 3.363 | 97 | 40993 | 0.938 | ppbv | | 99 |
| 34) 2-Butanone | 2.557 | 43 | 41423 | 1.063 | ppbv | | 98 |
| 35) Carbon Tetrachloride | 3.758 | 117 | 39345 | 0.952 | ppbv | | 93 |
| 36) Benzene | 3.651 | 78 | 55156 | 1.036 | ppbv | | 94 |
| 37) 1,2-Dichloroethane | 3.218 | 62 | 30543 | 1.002 | ppbv | | 98 |
| 38) Trichloroethene | 4.545 | 130 | 21906 | 0.985 | ppbv | | 93 |
| 39) 1,2-Dichloropropane | 4.312 | 63 | 20020 | 1.032 | ppbv | | 99 |
| 40) 1,4-Dioxane | 4.593 | 88 | 10031 | 0.997 | ppbv | # | 49 |
| 41) Tetrahydrofuran | 3.056 | 42 | 22818 | 1.029 | ppbv | | 97 |
| 42) Bromodichloromethane | 4.483 | 83 | 41864 | 0.996 | ppbv | | 90 |
| 43) Methyl Methacrylate | 4.875 | 69 | 14387 | 0.640 | ppbv | # | 31 |
| 44) 2,2,4-Trimethylpentane | 4.632 | 57 | 90727 | 1.008 | ppbv | | 96 |
| 45) t-1,3-Dichloropropene | 6.412 | 75 | 13431 | 0.555 | ppbv | | 97 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042174.D
Acq On : 27 Mar 2025 09:30
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Quant Time: Mar 28 01:33:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.593 | 75 | 30063 | 1.014 | ppbv | | 93 |
| 47) 1,1,2-Trichloroethane | 6.577 | 97 | 20546 | 1.002 | ppbv | | 96 |
| 48) Dibromochloromethane | 7.383 | 129 | 34425 | 0.991 | ppbv | | 100 |
| 49) Bromoform | 9.481 | 173 | 31610 | 1.013 | ppbv | | 98 |
| 50) 4-Methyl-2-Pentanone | 5.752 | 43 | 34358 | 0.556 | ppbv | # | 39 |
| 51) 2-Hexanone | 7.438 | 43 | 54680 | 1.067 | ppbv | # | 100 |
| 52) Tetrachloroethene | 8.222 | 164 | 19415 | 0.919 | ppbv | | 95 |
| 53) Toluene | 6.927 | 91 | 64612 | 1.023 | ppbv | | 99 |
| 54) 1,2-Dibromoethane | 7.652 | 107 | 28879 | 1.009 | ppbv | | 95 |
| 56) 1,1,1,2-Tetrachloroethane | 8.924 | 131 | 28764 | 1.045 | ppbv | # | 87 |
| 57) Chlorobenzene | 8.917 | 112 | 48930 | 1.032 | ppbv | | 93 |
| 58) Ethyl Benzene | 9.348 | 91 | 91086 | 1.026 | ppbv | | 97 |
| 59) m/p-Xylene | 9.545 | 91 | 73295 | 1.033 | ppbv | # | 31 |
| 60) o-Xylene | 9.960 | 91 | 73702 | 1.037 | ppbv | | 96 |
| 61) Styrene | 9.866 | 104 | 36110 | 1.027 | ppbv | | 97 |
| 62) Isopropylbenzene | 10.536 | 105 | 109897 | 1.034 | ppbv | | 98 |
| 63) 1,1,2,2-Tetrachloroethane | 9.960 | 83 | 44431 | 1.029 | ppbv | | 99 |
| 64) n-propylbenzene | 10.986 | 120 | 29054 | 1.062 | ppbv | | 98 |
| 65) tert-Butylbenzene | 11.526 | 119 | 103520 | 1.053 | ppbv | | 96 |
| 66) Benzyl Chloride | 11.614 | 91 | 10660 | 1.022 | ppbv | # | 93 |
| 67) sec-Butylbenzene | 11.762 | 105 | 149660 | 1.095 | ppbv | | 97 |
| 69) p-Isopropyltoluene | 11.921 | 119 | 127509 | 1.084 | ppbv | | 99 |
| 70) n-Butylbenzene | 12.280 | 91 | 129860 | 1.079 | ppbv | | 99 |
| 71) 2-Chlorotoluene | 10.898 | 91 | 86356 | 1.047 | ppbv | | 100 |
| 72) 4-Ethyltoluene | 11.122 | 105 | 92912 | 1.050 | ppbv | | 99 |
| 73) 1,3,5-Trimethylbenzene | 11.199 | 105 | 83497 | 1.080 | ppbv | | 92 |
| 74) 1,2,4-Trimethylbenzene | 11.533 | 105 | 97858 | 1.099 | ppbv | | 94 |
| 75) 1,3-Dichlorobenzene | 11.604 | 146 | 51096 | 1.046 | ppbv | | 99 |
| 76) 1,4-Dichlorobenzene | 11.669 | 146 | 50841 | 1.046 | ppbv | | 99 |
| 77) 1,2-Dichlorobenzene | 11.944 | 146 | 51523 | 1.084 | ppbv | | 99 |
| 78) Hexachloro-1,3-Butadiene | 13.879 | 225 | 55611 | 1.149 | ppbv | | 97 |
| 79) Naphthalene | 13.510 | 128 | 109031 | 1.120 | ppbv | | 99 |
| 80) Naphthalene,2-methyl- | 14.455 | 142 | 44518 | 0.939 | ppbv | | 99 |
| 81) 1,2,4-Trichlorobenzene | 13.436 | 180 | 47040 | 1.047 | ppbv | | 98 |

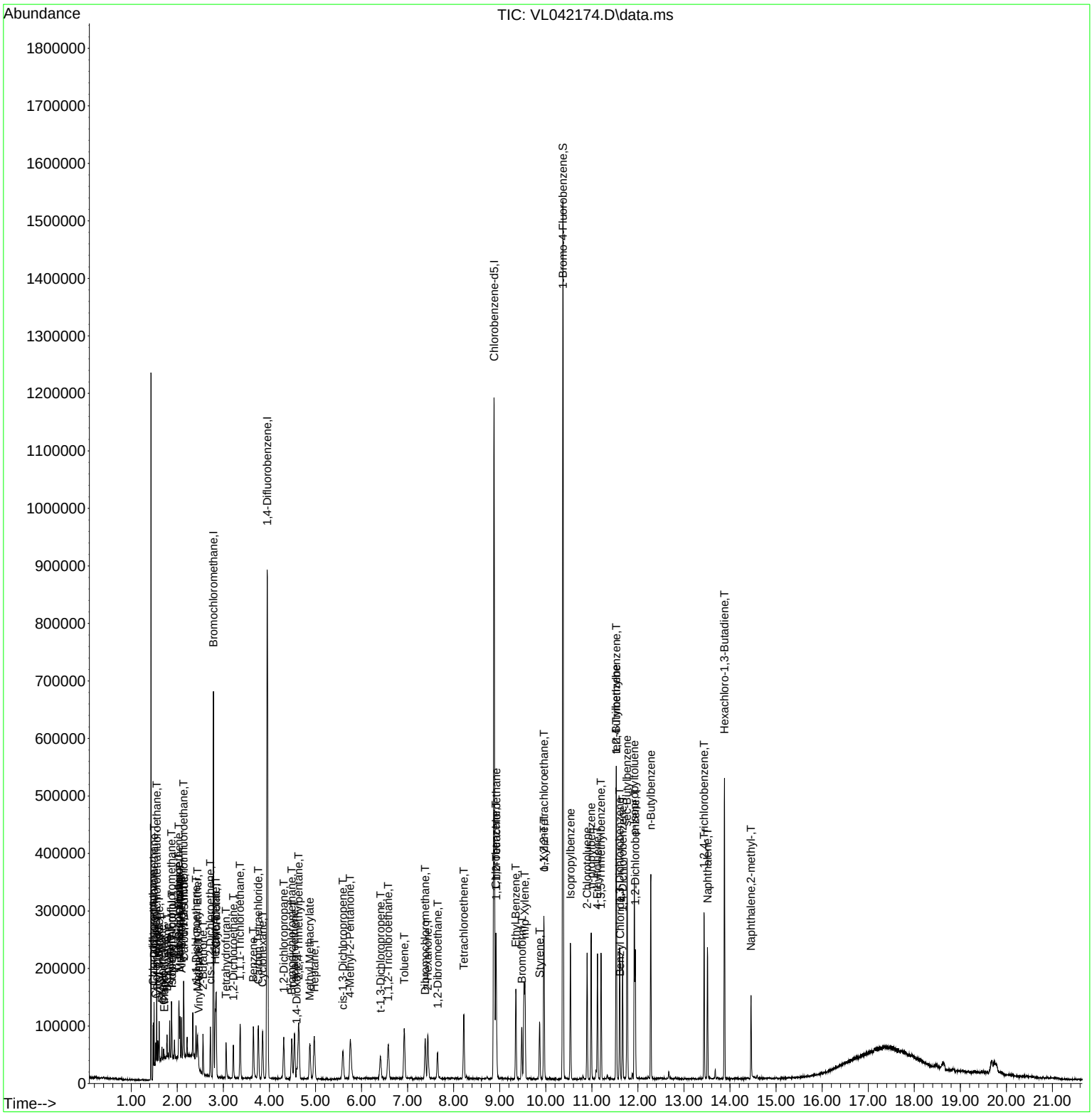
(#) = qualifier out of range (m) = manual integration (+) = signals summed

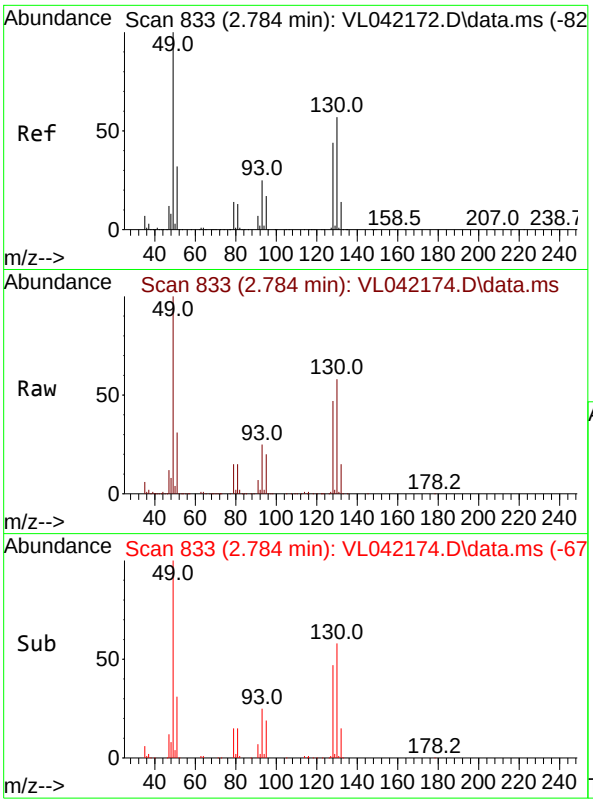
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042174.D
Acq On : 27 Mar 2025 09:30
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Quant Time: Mar 28 01:33:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration



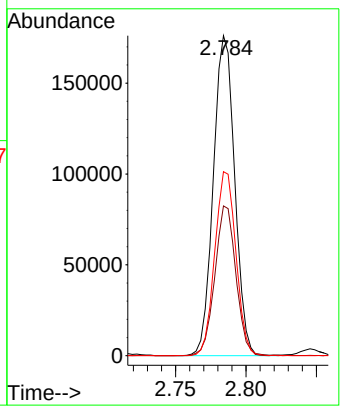


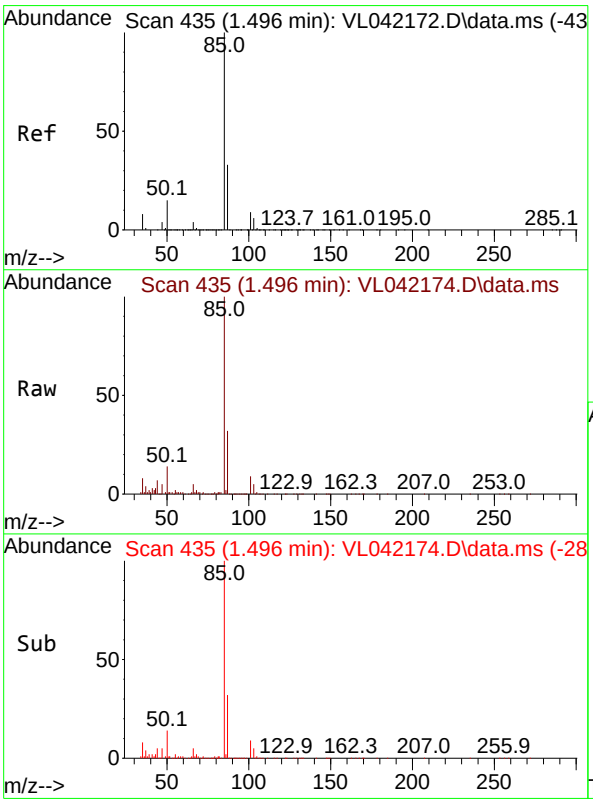

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion: 49 Resp: 186244

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 46.2 | 22.9 | 68.5 |
| 130 | 57.0 | 28.8 | 86.4 |

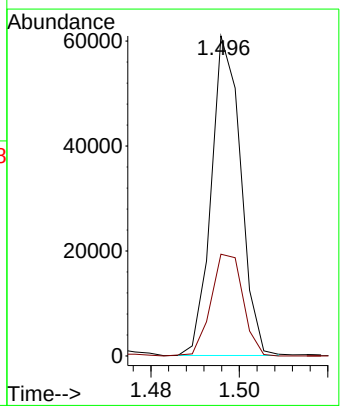


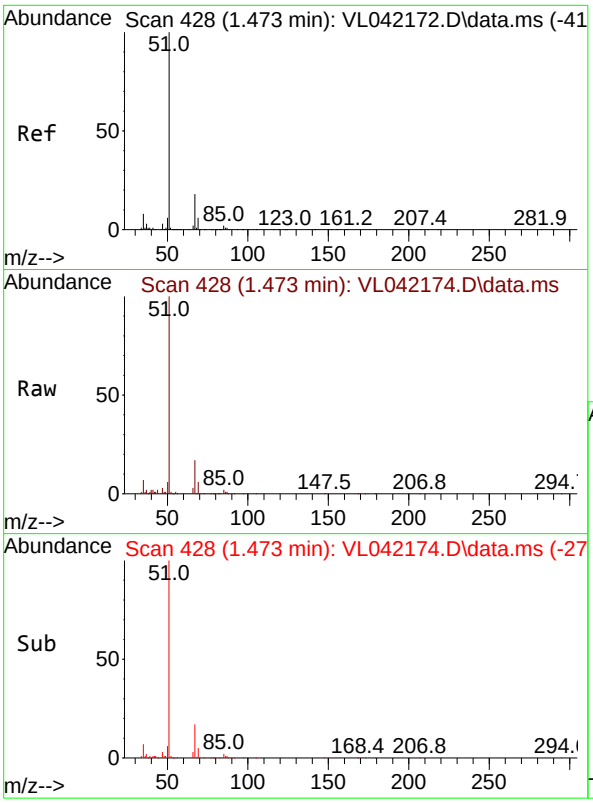




#2
Dichlorodifluoromethane
Concen: 1.026 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 85 Resp: 28203

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.9 | 26.1 | 39.1 |



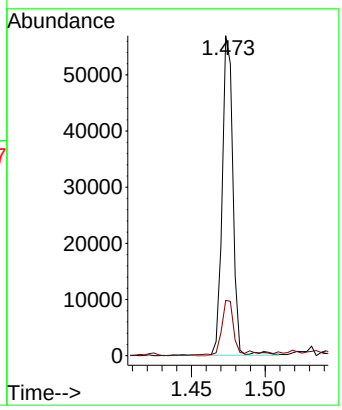


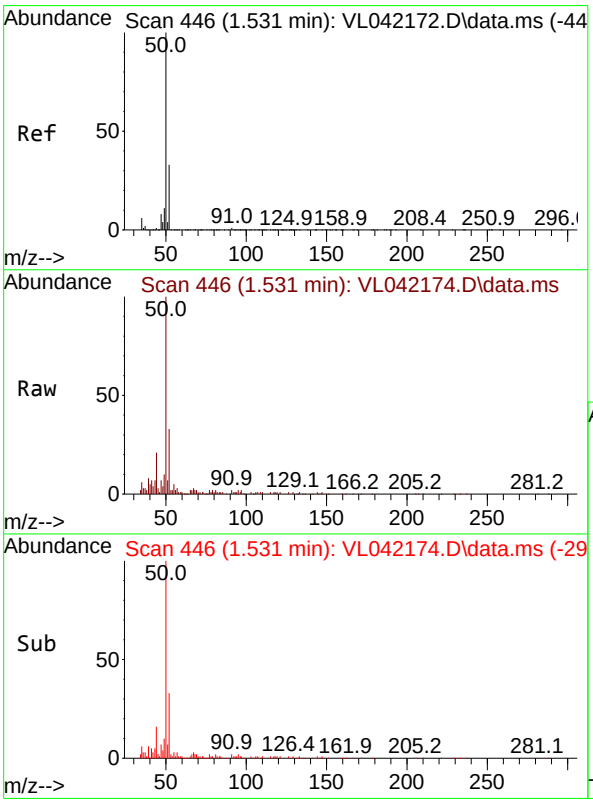

#3
Chlorodifluoromethane
Concen: 1.021 ppbv
RT: 1.473 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion: 51 Resp: 28693

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 21.5 | 15.0 | 22.6 |

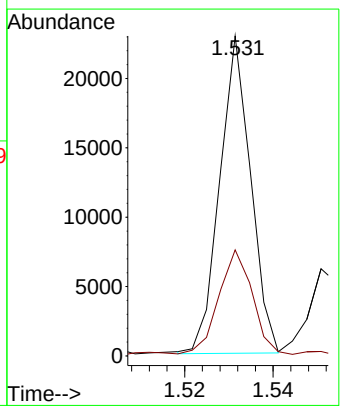


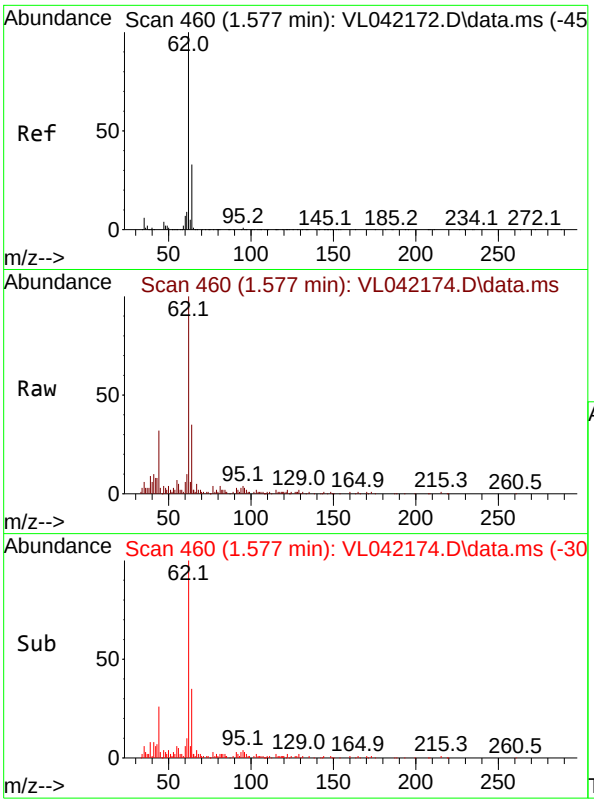




#4
Chloromethane
Concen: 0.989 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 50 Resp: 11111

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.9 | 26.1 | 39.1 |



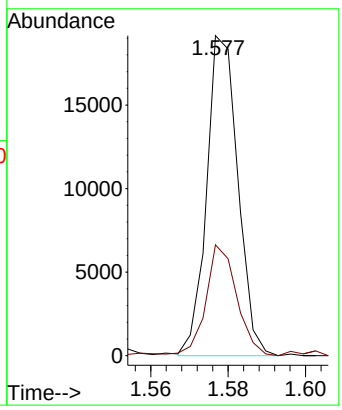


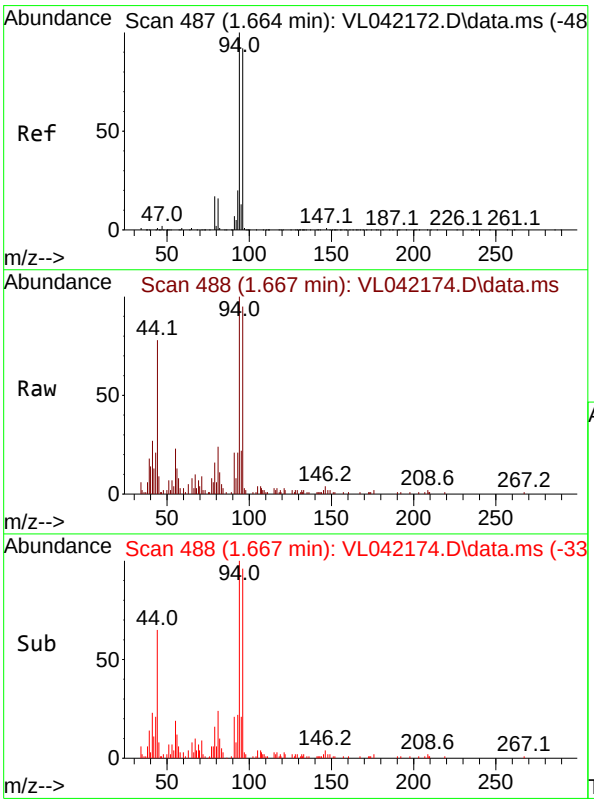

#5
Vinyl Chloride
Concen: 0.936 ppbv
RT: 1.577 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion: 62 Resp: 10723

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 34.6 | 26.6 | 40.0 |

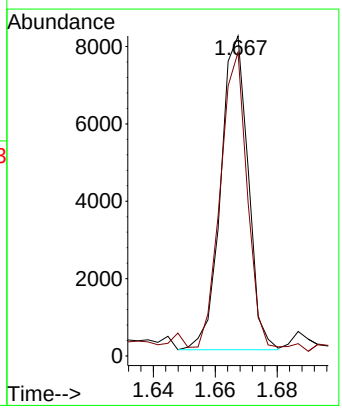


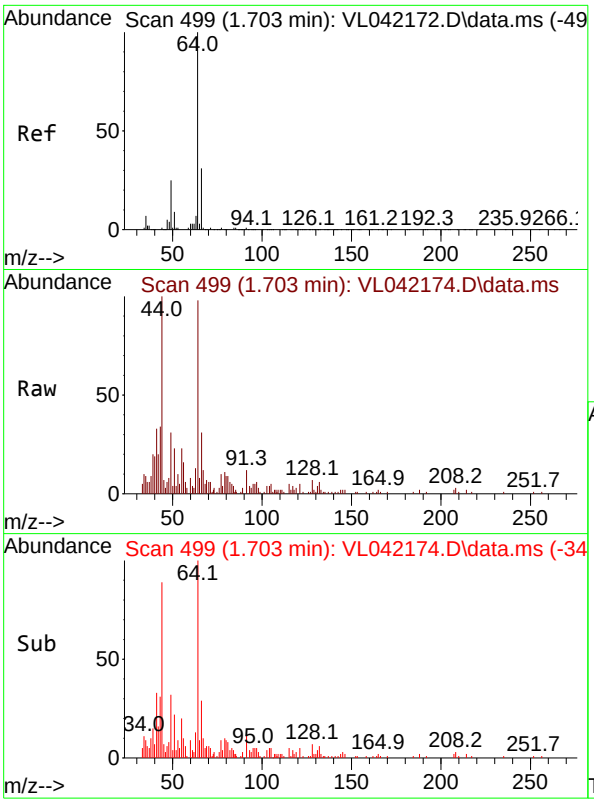




#6
Bromomethane
Concen: 0.979 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 94 Resp: 4984

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 93.8 | 73.1 | 109.7 |



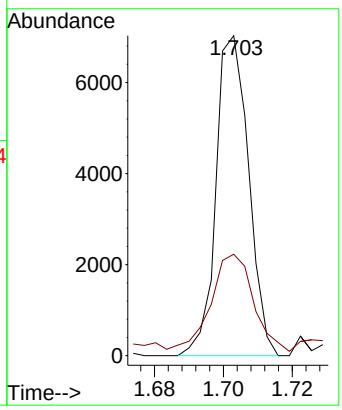


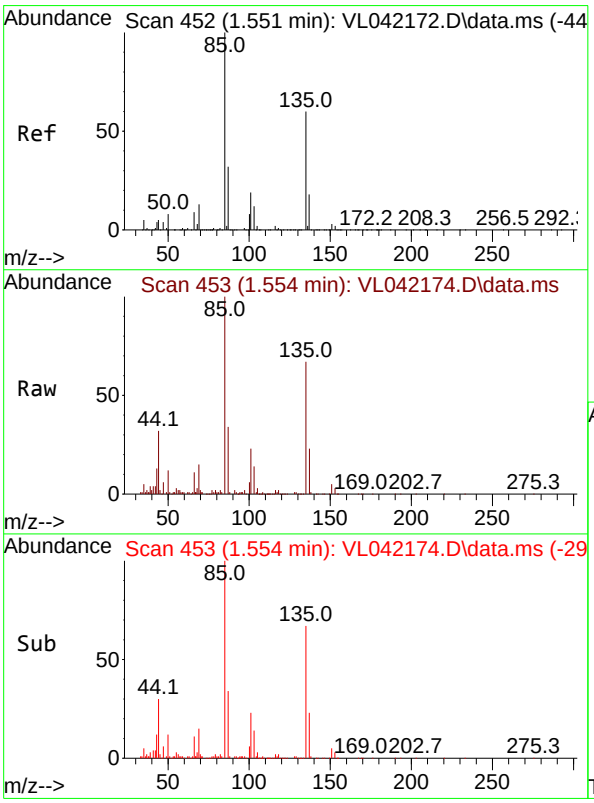

#7
Chloroethane
Concen: 1.025 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion: 64 Resp: 4622

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 31.7 | 25.2 | 37.8 |

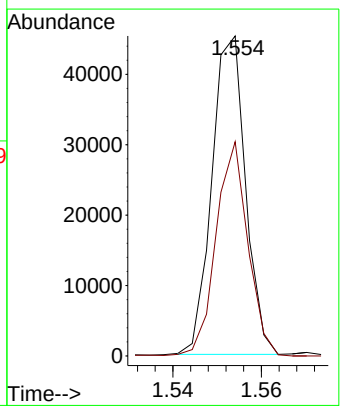


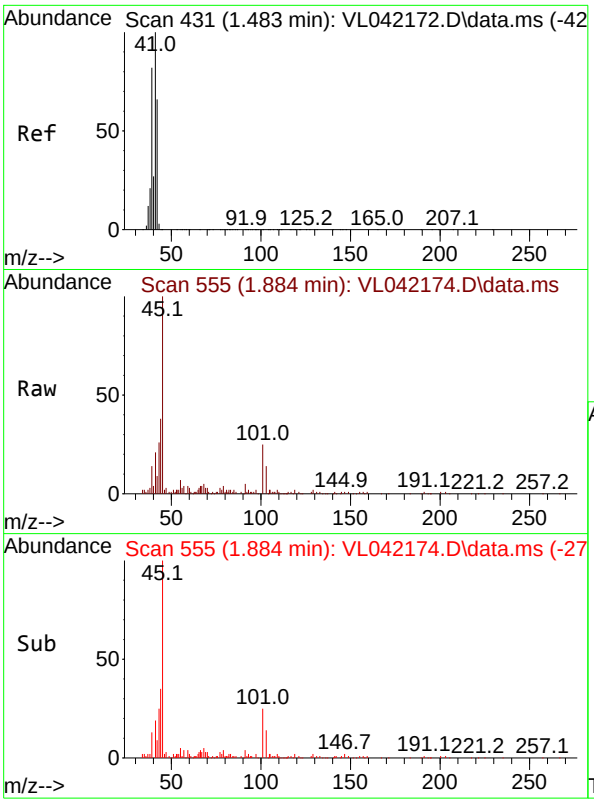




#8
Dichlorotetrafluoroethane
Concen: 1.020 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 85 Resp: 23886

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 64.2 | 52.4 | 78.6 |



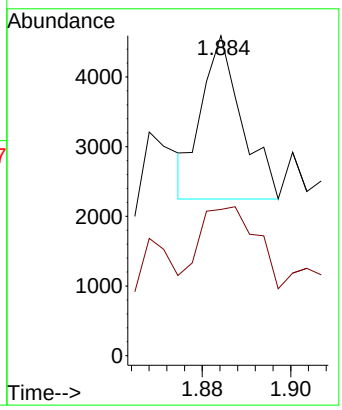


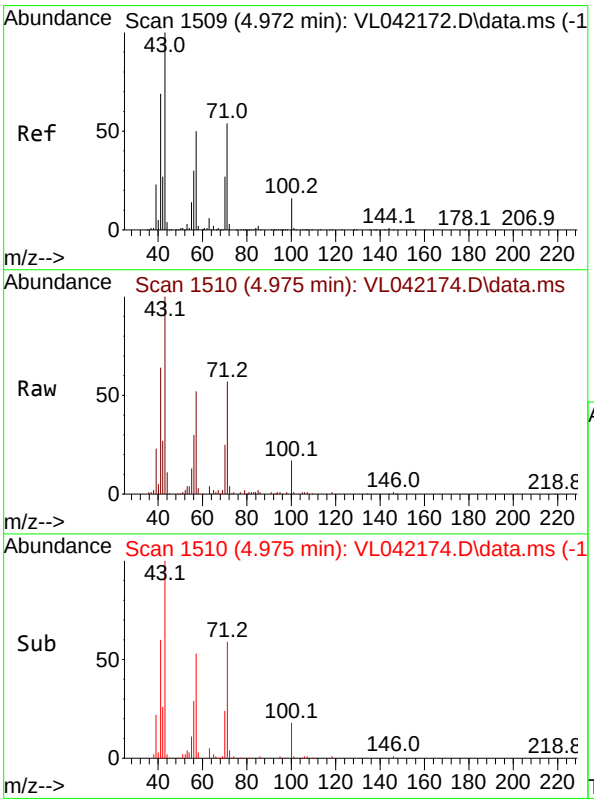

#9
Propene
Concen: 0.116 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.401 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion: 41 Resp: 1465

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 69.8 | 55.4 | 83.2 |

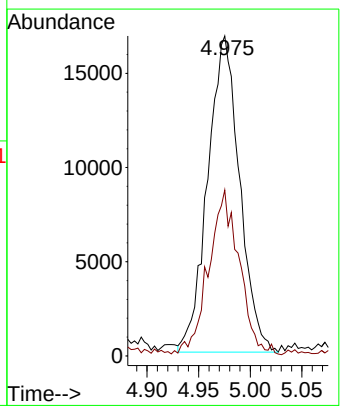


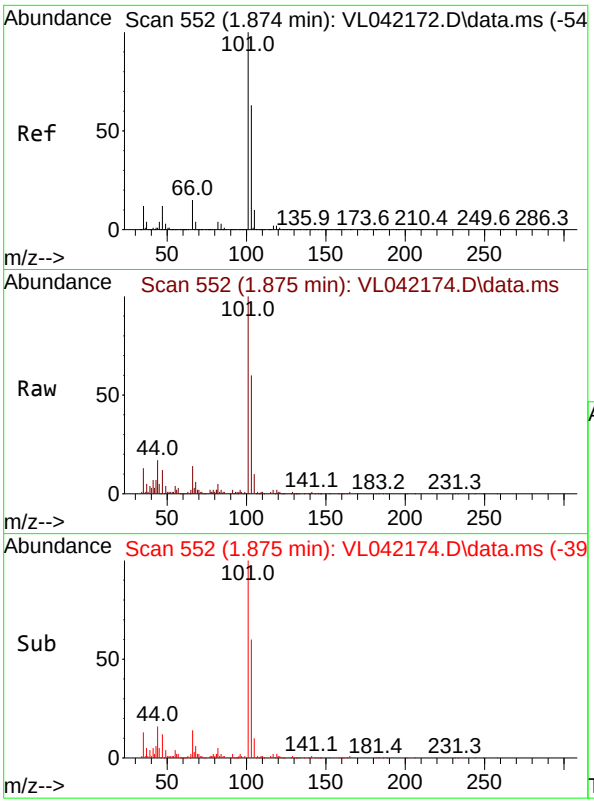




#10
Heptane
Concen: 1.055 ppbv
RT: 4.975 min Scan# 1510
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 43 Resp: 36132

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 49.6 | 39.4 | 59.2 |



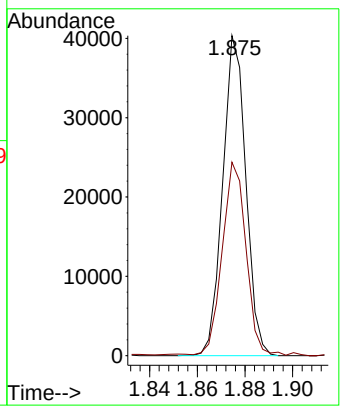


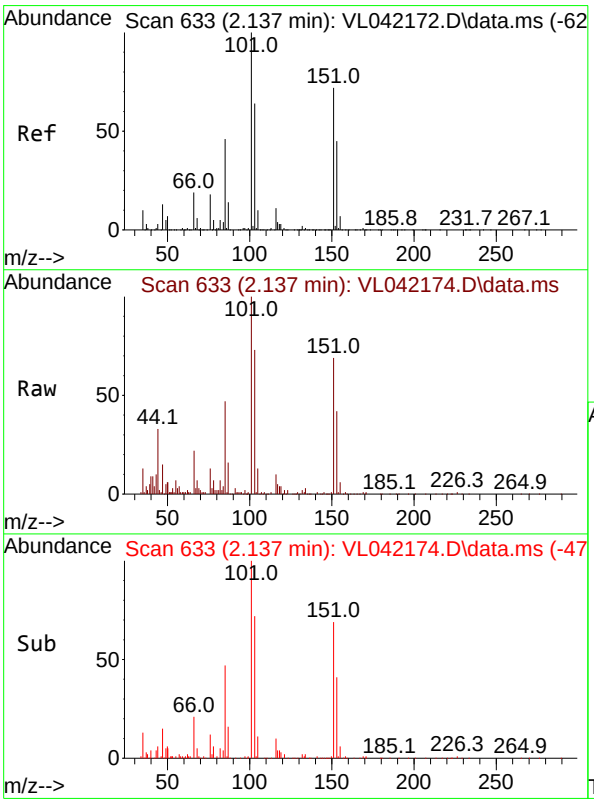

#11
Trichlorofluoromethane
Concen: 1.014 ppbv
RT: 1.875 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion:101 Resp: 27136

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 59.9 | 50.2 | 75.2 |

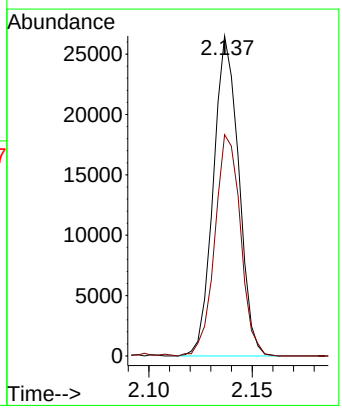


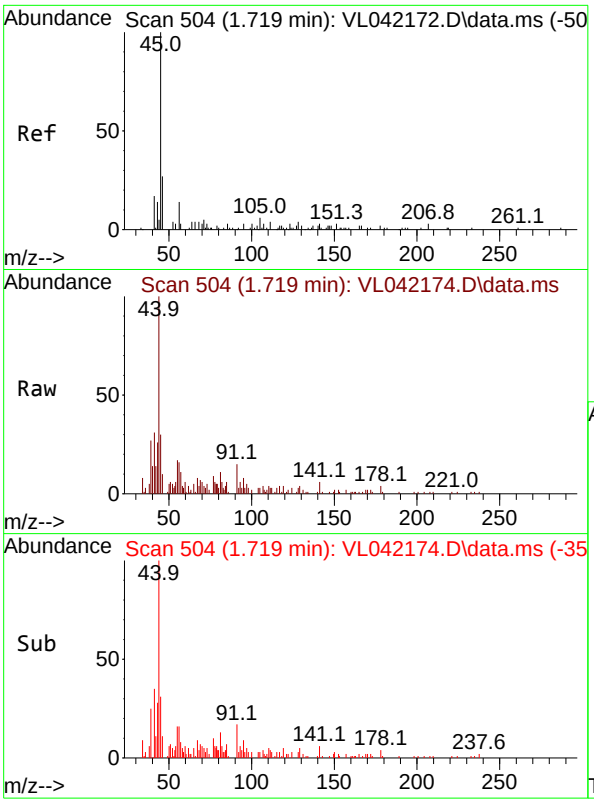




#12
1,1,2-Trichlorotrifluoroethane
Concen: 1.029 ppbv
RT: 2.137 min Scan# 633
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:101 Resp: 22629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 70.3 | 57.1 | 85.7 |



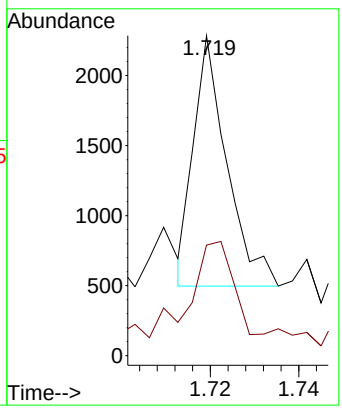


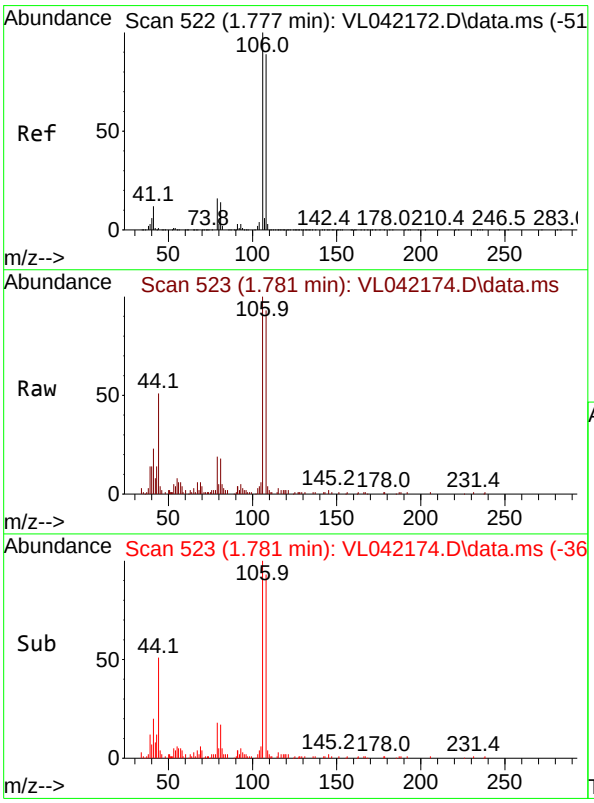

#13
Ethanol
Concen: 0.943 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion: 45 Resp: 935

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 126.3 | 20.2 | 80.8# |

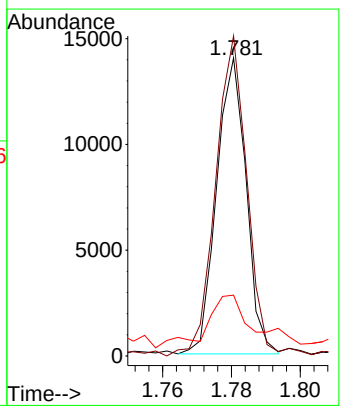


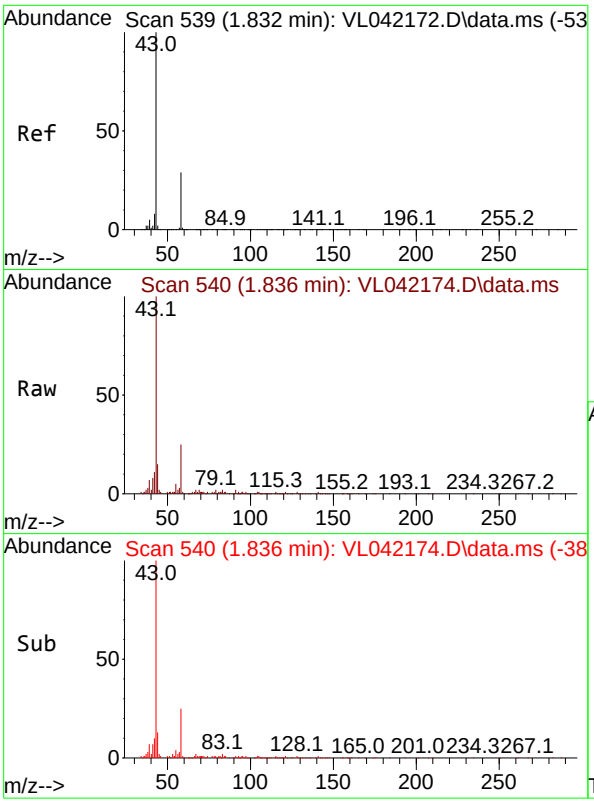




#14
Bromoethene
Concen: 0.989 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:108 Resp: 8330

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 106 | 115.2 | 86.8 | 130.2 |
| 79 | 57.0 | 15.0 | 22.6# |



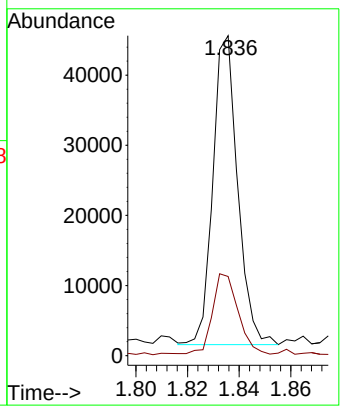


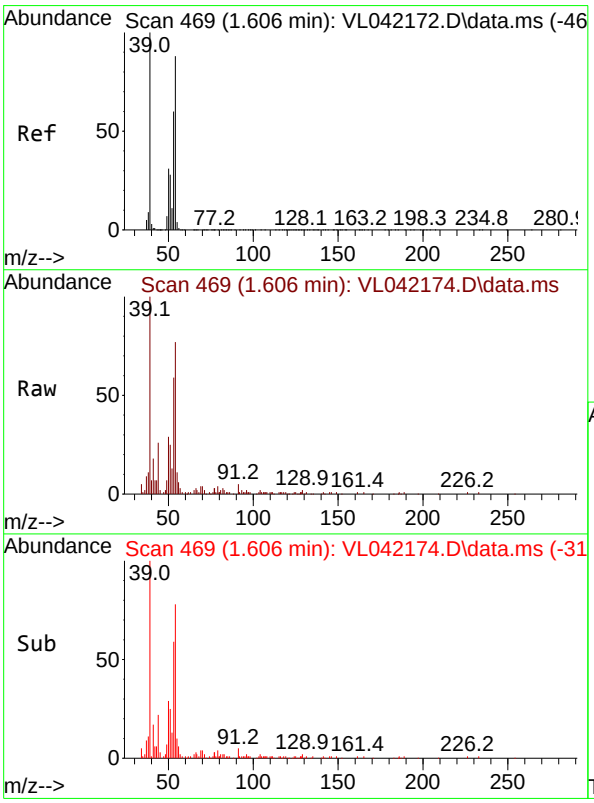

#15
Acetone
Concen: 1.125 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion: 43 Resp: 29294

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 31.6 | 23.2 | 34.8 |

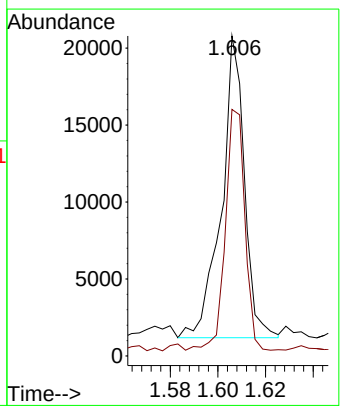


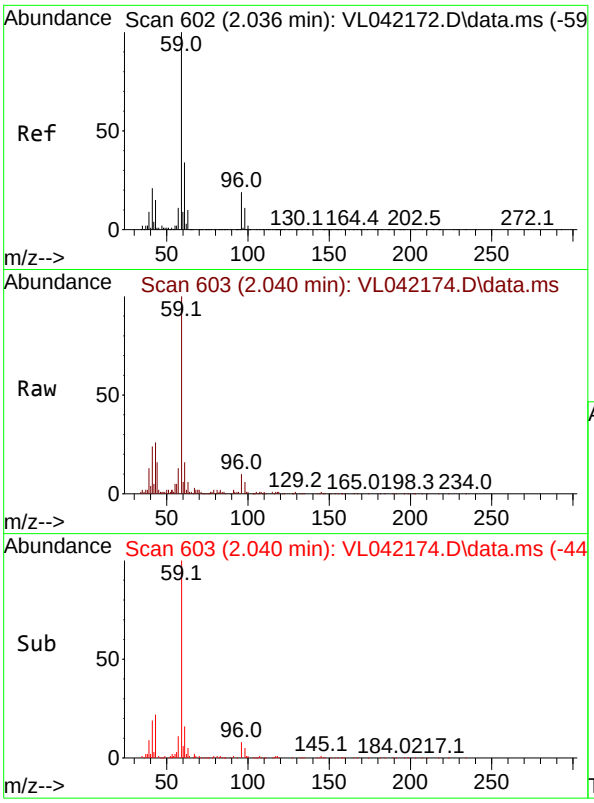




#16
1,3-Butadiene
Concen: 1.121 ppbv
RT: 1.606 min Scan# 469
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 39 Resp: 13133

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 73.5 | 60.7 | 91.1 |



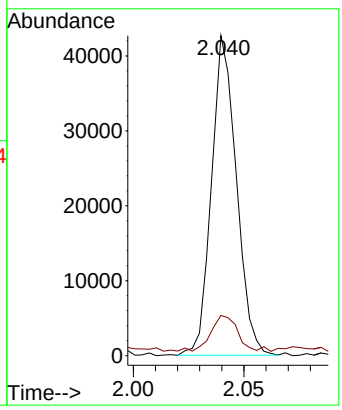


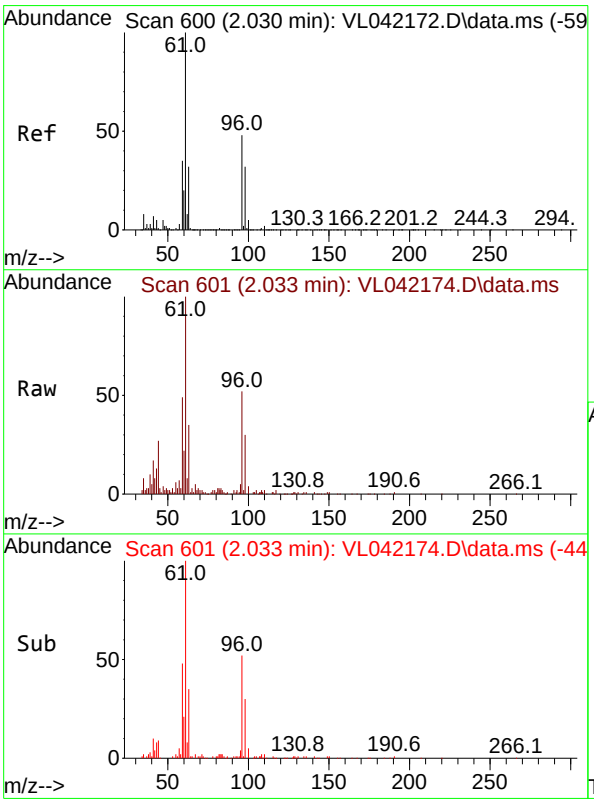

#17
tert-Butyl alcohol
Concen: 1.033 ppbv
RT: 2.040 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion: 59 Resp: 33500

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 12.3 | 8.9 | 13.3 |

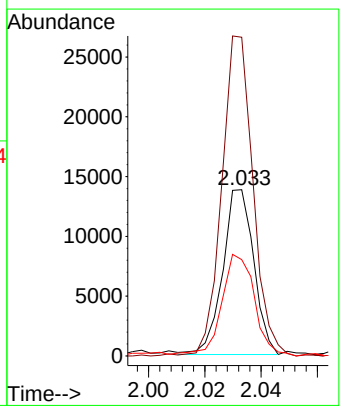


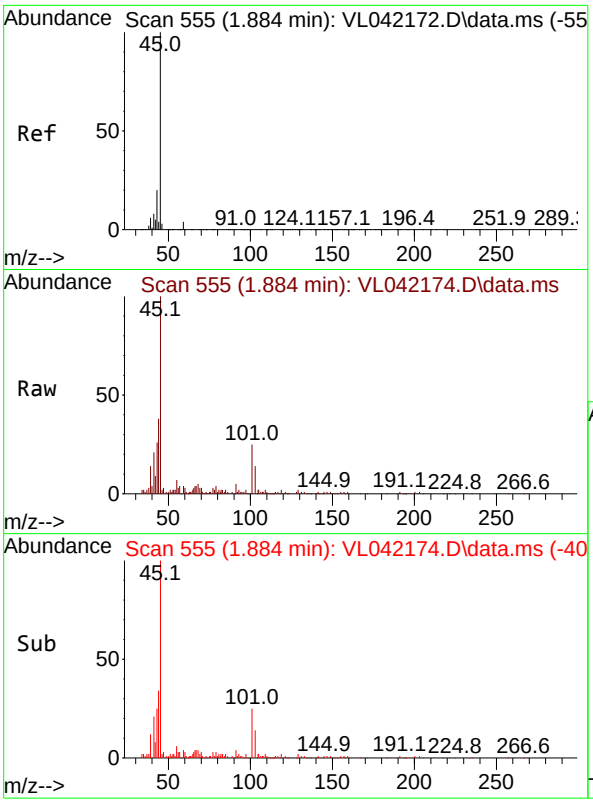




#18
1,1-Dichloroethene
Concen: 1.024 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 96 Resp: 10532

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 192.9 | 167.6 | 251.4 |
| 98 | 56.7 | 53.5 | 80.3 |



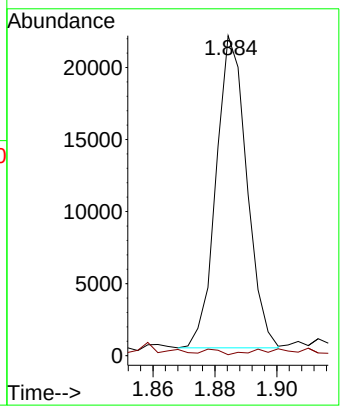


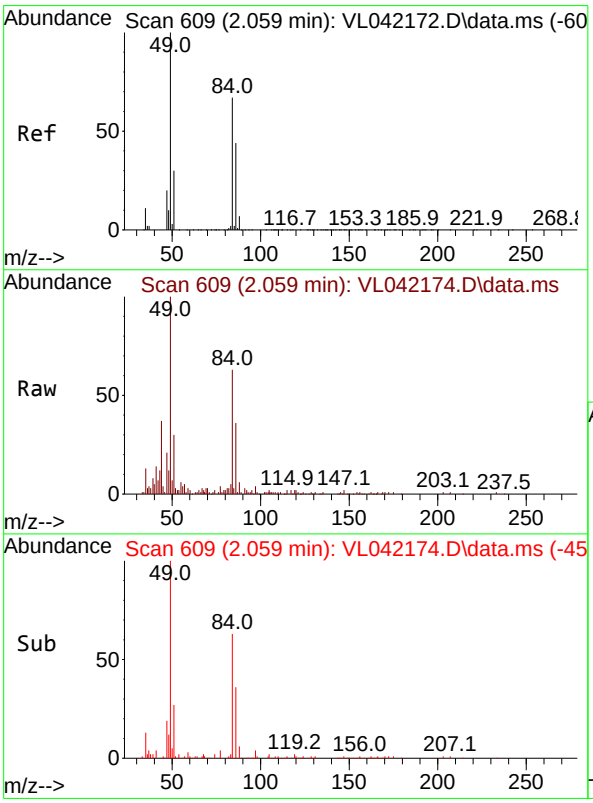

#19
Isopropyl Alcohol
Concen: 1.014 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion: 45 Resp: 14903

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 4.9 | 36.9 | 55.3# |

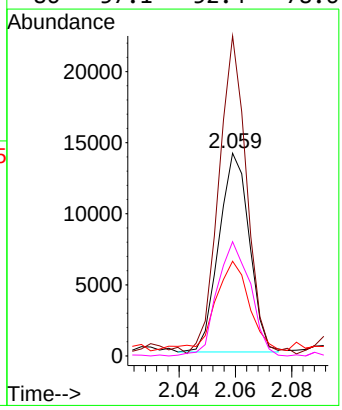


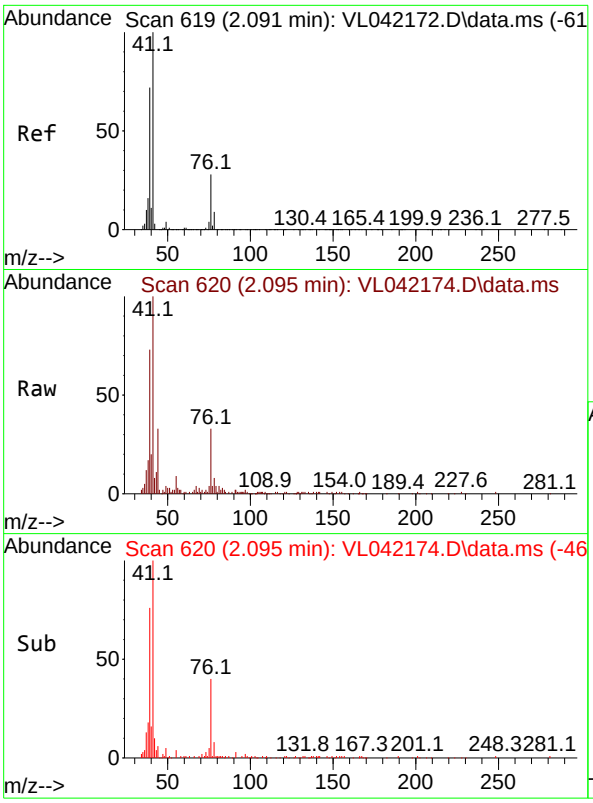




#20
Methylene Chloride
Concen: 1.080 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 84 Resp: 10481

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 158.3 | 120.2 | 180.4 |
| 51 | 44.3 | 37.4 | 56.0 |
| 86 | 57.1 | 52.4 | 78.6 |



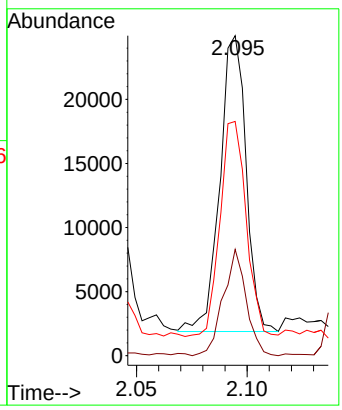


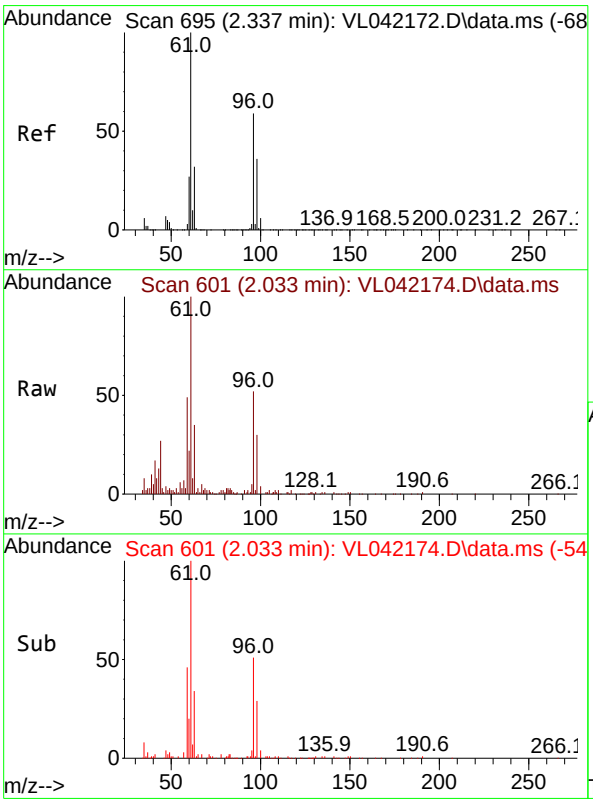

#21
Allyl Chloride
Concen: 1.036 ppbv
RT: 2.095 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion: 41 Resp: 19039

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 30.5 | 24.1 | 36.1 |
| 39 | 77.8 | 61.1 | 91.7 |

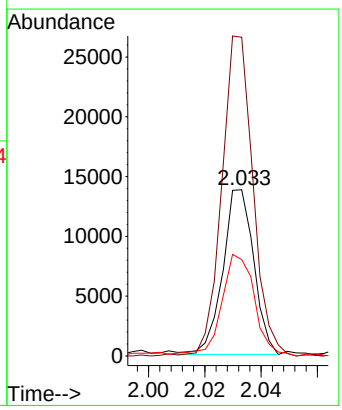


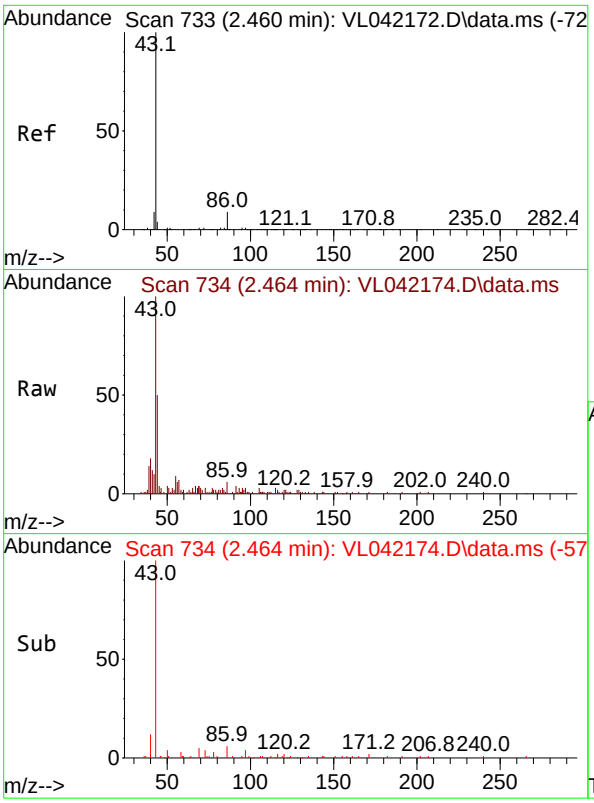




#22
trans-1,2-Dichloroethene
Concen: 0.877 ppbv
RT: 2.033 min Scan# 601
Delta R.T. -0.304 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 96 Resp: 10532

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 192.9 | 136.6 | 204.8 |
| 98 | 56.7 | 49.4 | 74.2 |



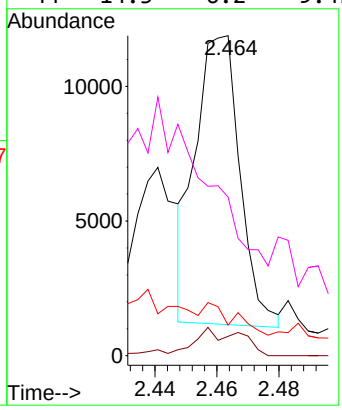


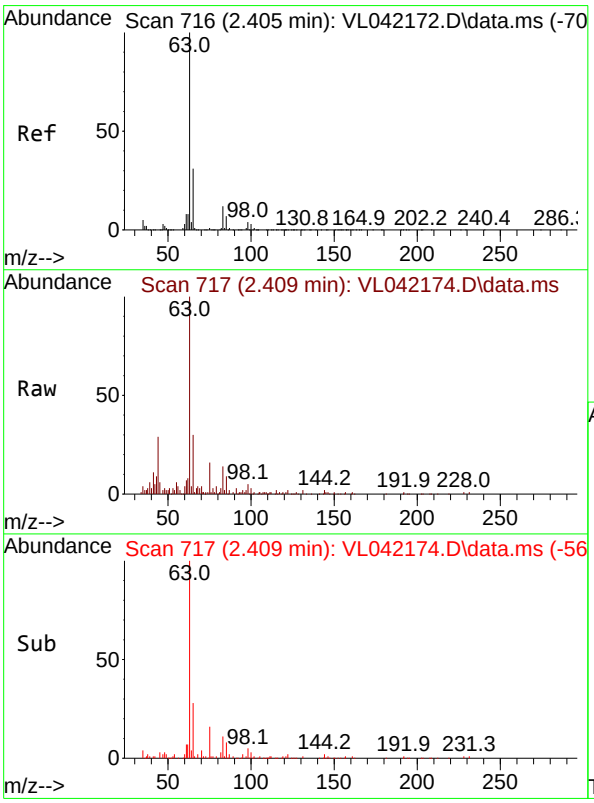

#23
Vinyl Acetate
Concen: 0.983 ppbv
RT: 2.464 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion: 43 Resp: 10644

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 6.9 | 5.5 | 8.3 |
| 42 | 2.4 | 8.6 | 13.0# |
| 44 | 14.3 | 6.2 | 9.4# |

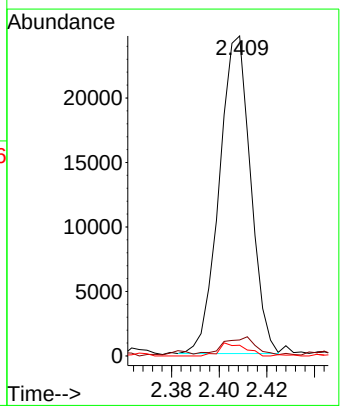


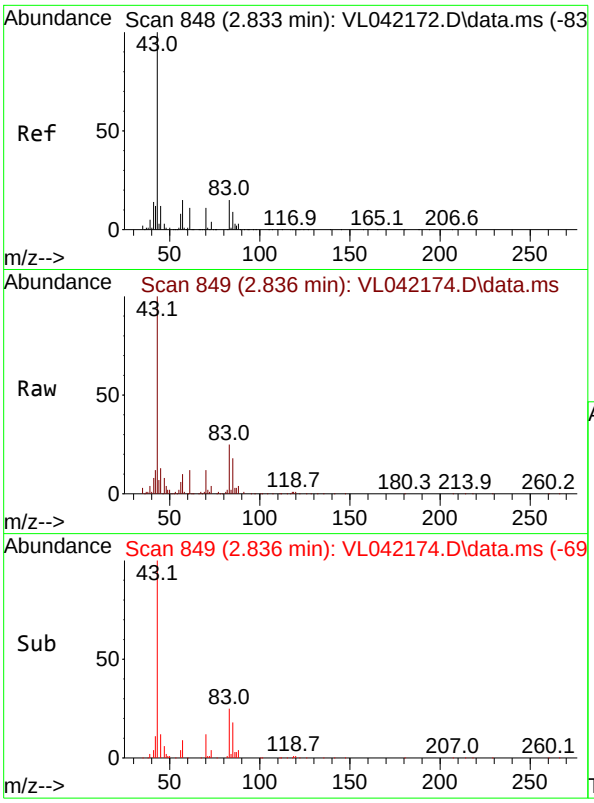




#24
1,1-Dichloroethane
Concen: 1.022 ppbv
RT: 2.409 min Scan# 717
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 63 Resp: 22505

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 4.6 | 2.3 | 6.8 |
| 100 | 3.4 | 1.6 | 4.7 |



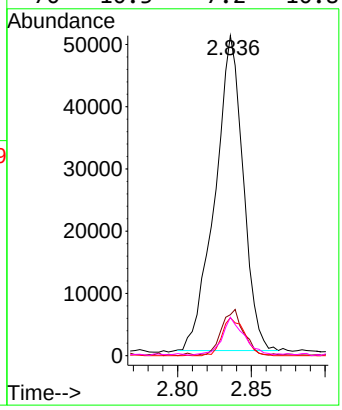


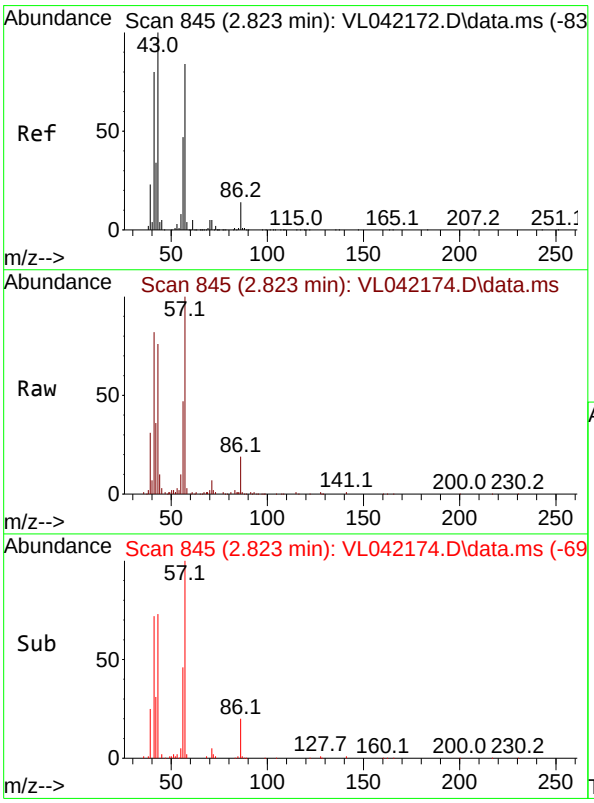

#25
Ethyl Acetate
Concen: 0.997 ppbv
RT: 2.836 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion: 43 Resp: 67402

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 12.3 | 8.2 | 12.2# |
| 61 | 9.6 | 7.3 | 10.9 |
| 70 | 10.3 | 7.2 | 10.8 |

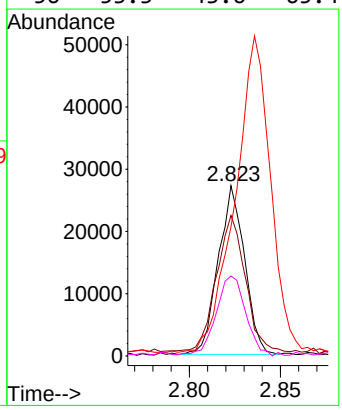


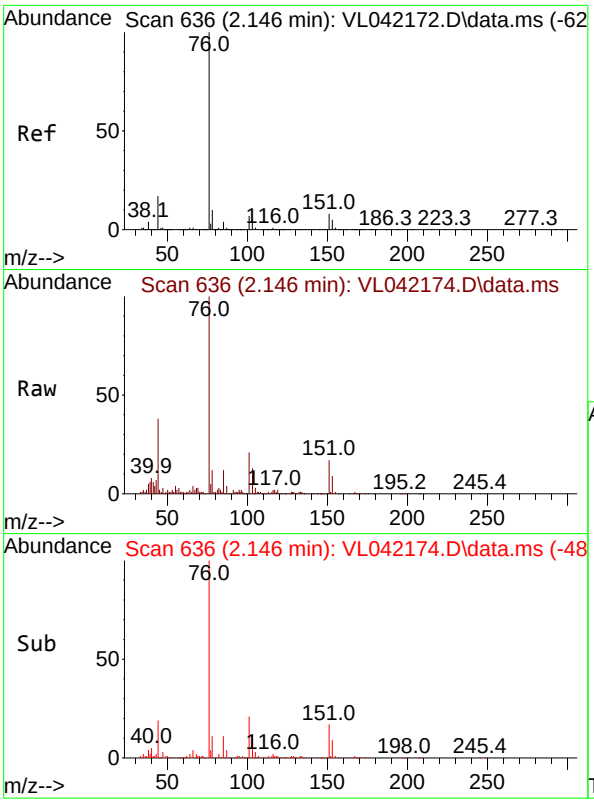




#26
Hexane
Concen: 1.043 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 57 Resp: 27223

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 93.5 | 76.6 | 114.8 |
| 43 | 256.9 | 207.8 | 311.8 |
| 56 | 53.3 | 43.6 | 65.4 |



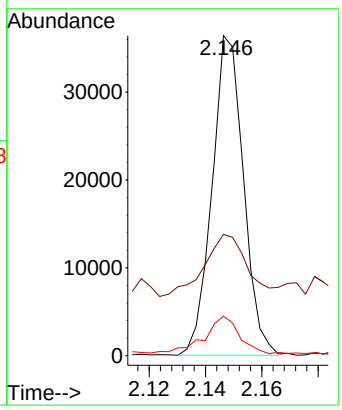


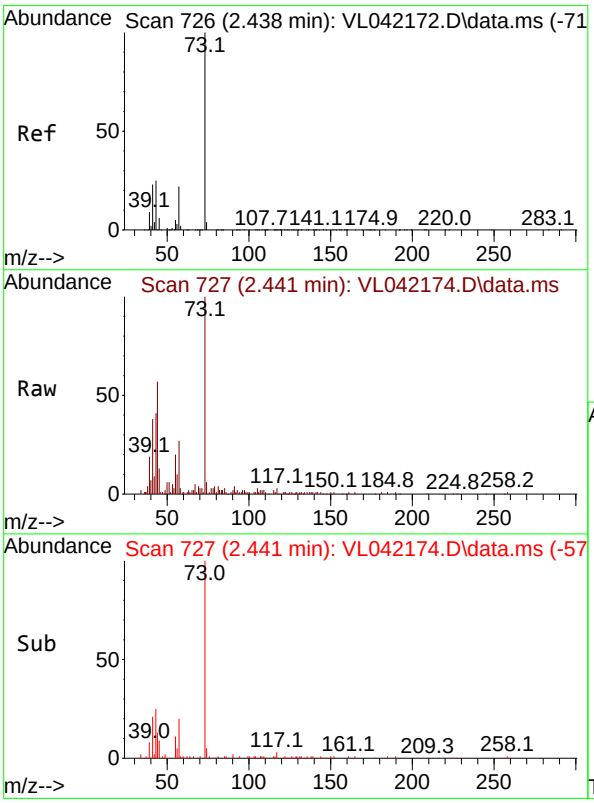

#27
Carbon Disulfide
Concen: 1.006 ppbv
RT: 2.146 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion: 76 Resp: 28167

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 54.6 | 14.7 | 22.1# |
| 78 | 15.0 | 9.3 | 13.9# |

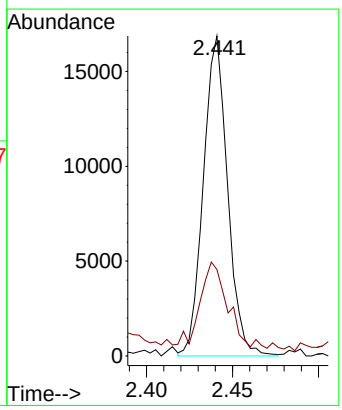


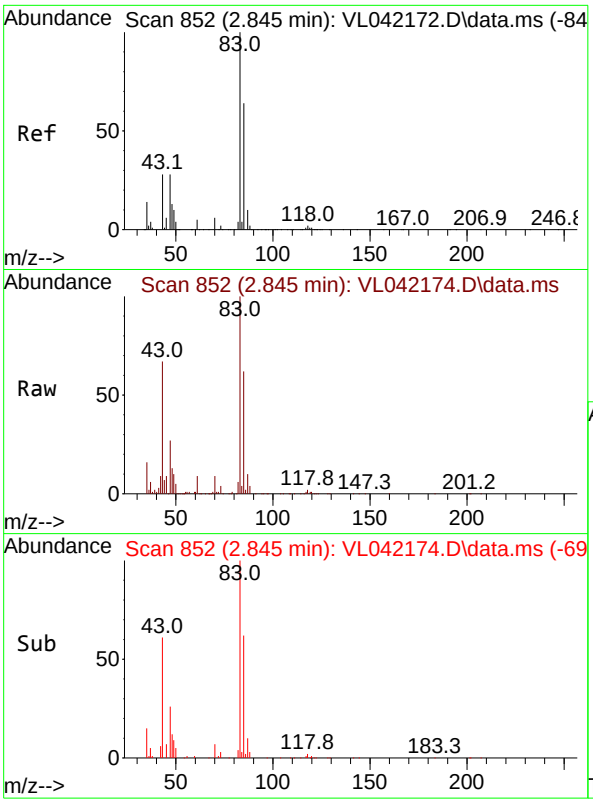




#28
Methyl tert-Butyl Ether
Concen: 1.015 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 73 Resp: 16501

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 28.0 | 20.5 | 30.7 |



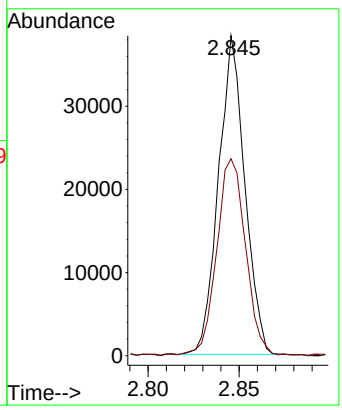


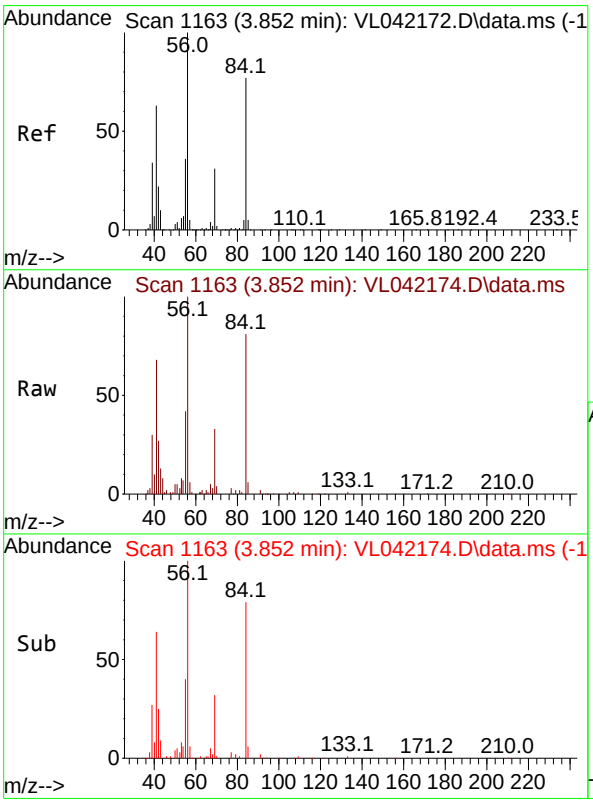

#29
Chloroform
Concen: 1.008 ppbv
RT: 2.845 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion: 83 Resp: 38516

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 61.6 | 51.4 | 77.2 |

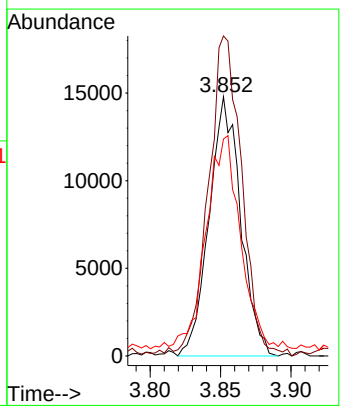


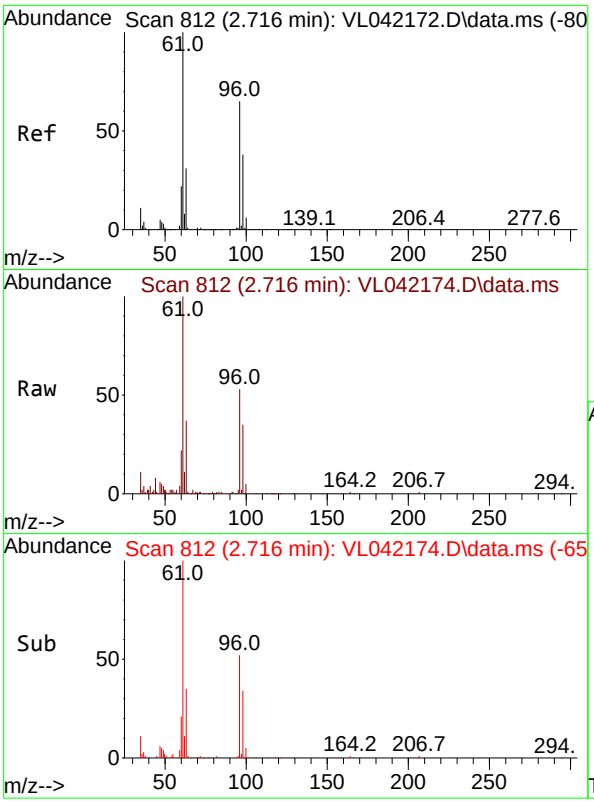




#30
Cyclohexane
Concen: 1.016 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 84 Resp: 23052

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 128.9 | 102.8 | 154.2 |
| 41 | 89.3 | 66.5 | 99.7 |



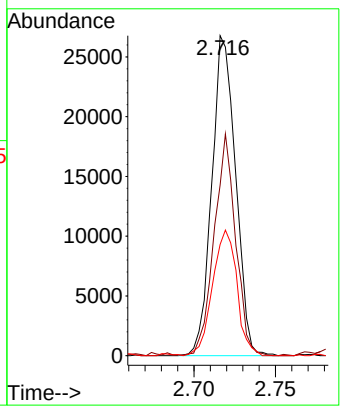


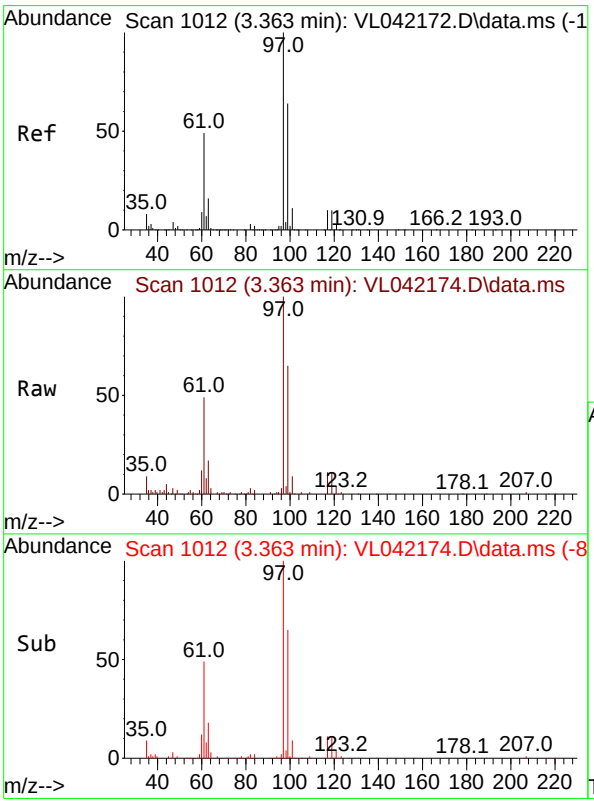

#31
cis-1,2-Dichloroethene
Concen: 1.026 ppbv
RT: 2.716 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion: 61 Resp: 27187

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 53.3 | 51.8 | 77.8 |
| 98 | 34.8 | 30.6 | 46.0 |

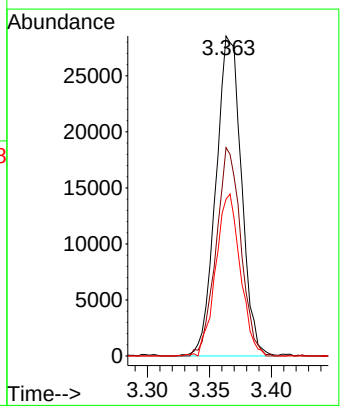


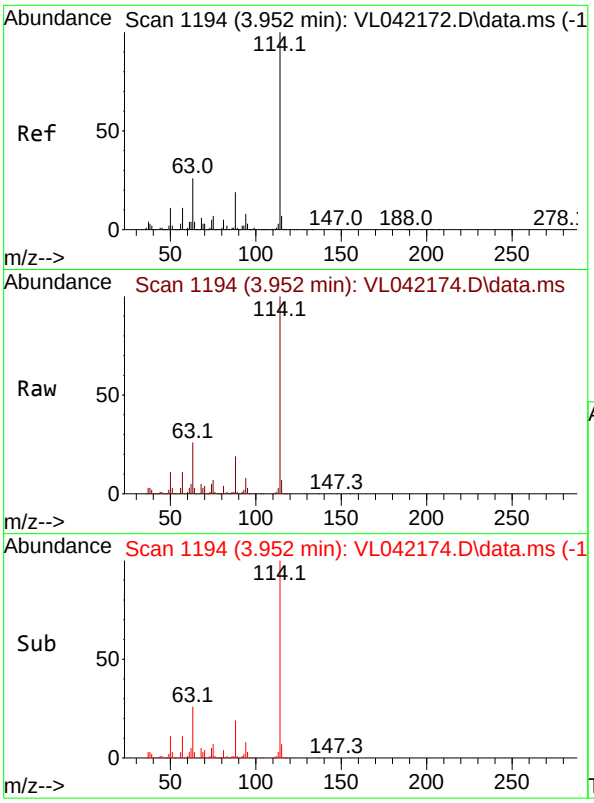




#32
1,1,1-Trichloroethane
Concen: 0.938 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 97 Resp: 40993

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.0 | 51.5 | 77.3 |
| 61 | 48.8 | 38.7 | 58.1 |



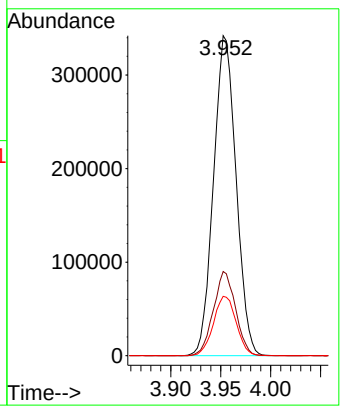


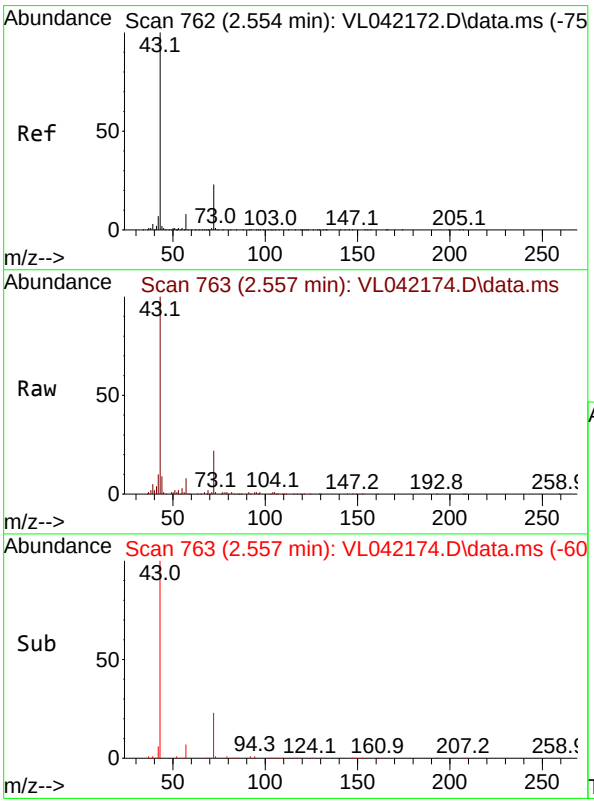

#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion:114 Resp: 537244

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.8 | 20.7 | 31.1 |
| 88 | 18.8 | 15.0 | 22.4 |

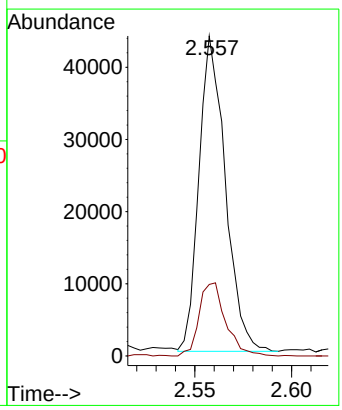


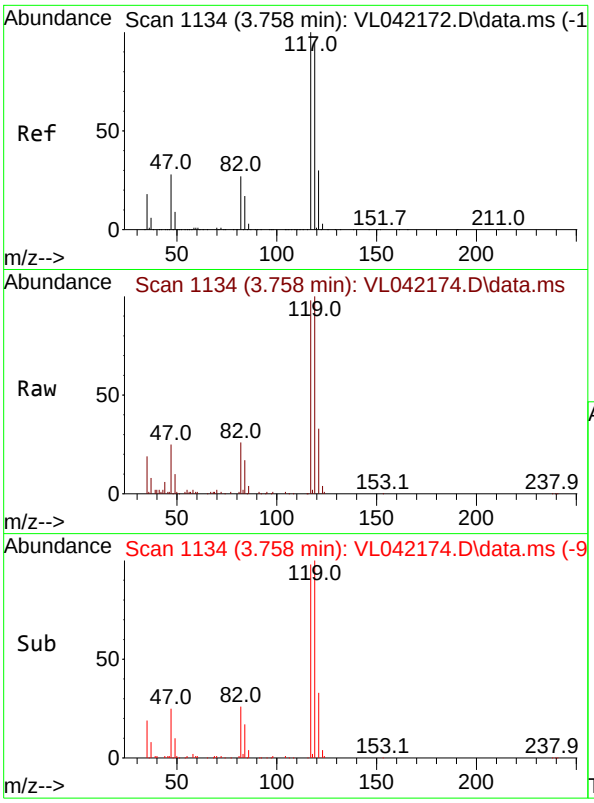




#34
2-Butanone
Concen: 1.063 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 43 Resp: 41423

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 23.5 | 18.2 | 27.2 |



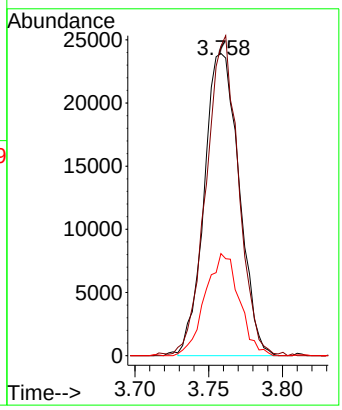


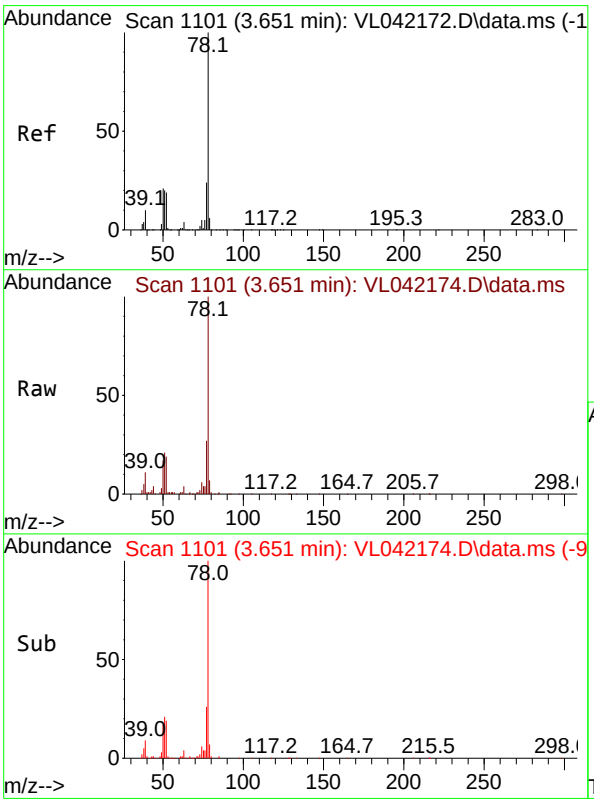

#35
Carbon Tetrachloride
Concen: 0.952 ppbv
RT: 3.758 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion:117 Resp: 39345

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 101.8 | 76.2 | 114.2 |
| 121 | 33.7 | 24.2 | 36.4 |

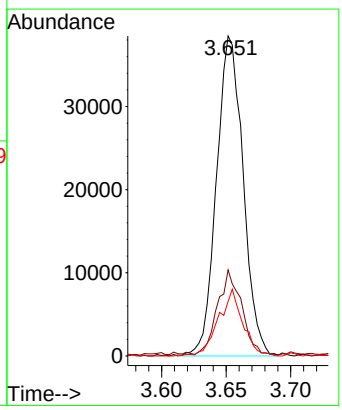


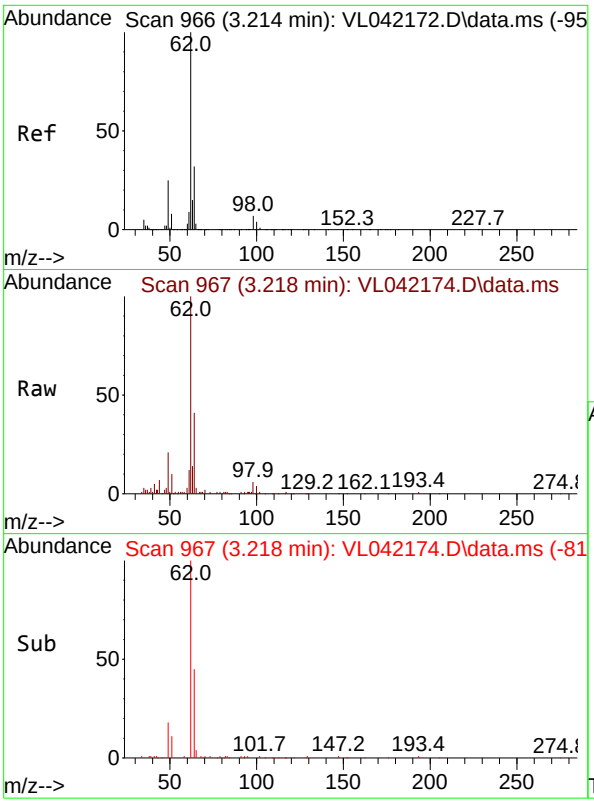




#36
Benzene
Concen: 1.036 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 78 Resp: 55156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 26.5 | 19.1 | 28.7 |
| 50 | 17.1 | 16.6 | 24.8 |



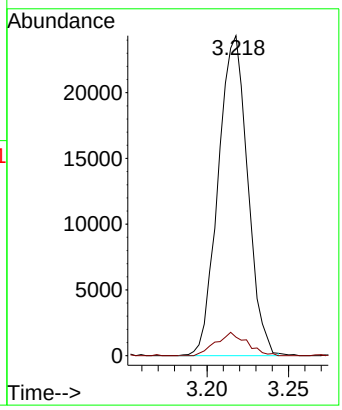


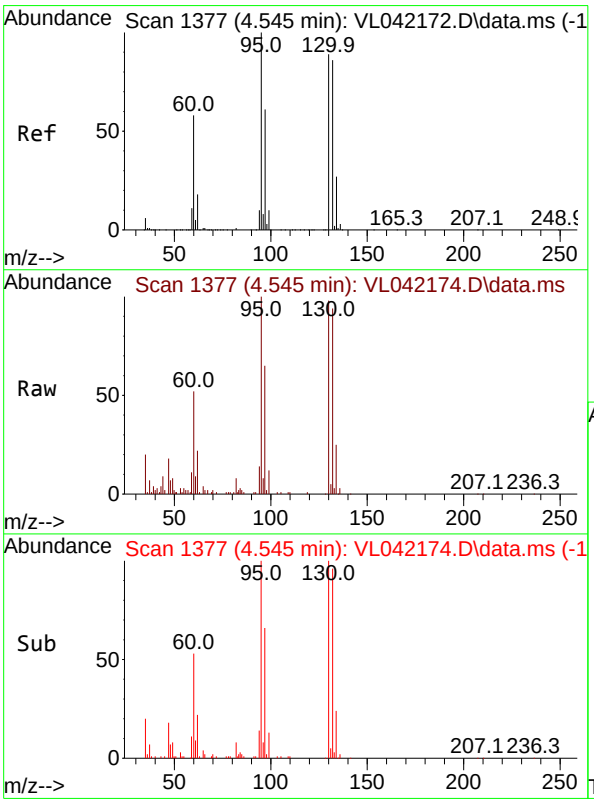

#37
1,2-Dichloroethane
Concen: 1.002 ppbv
RT: 3.218 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion: 62 Resp: 30543

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 7.6 | 5.4 | 8.2 |

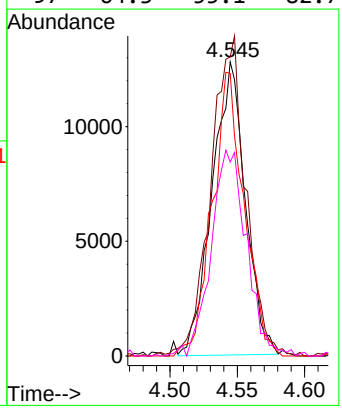


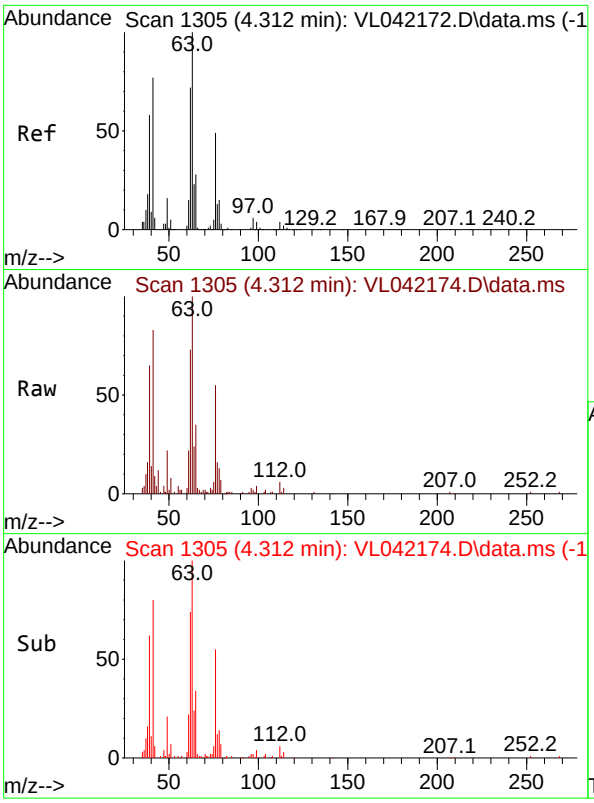




#38
Trichloroethene
Concen: 0.985 ppbv
RT: 4.545 min Scan# 1377
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:130 Resp: 21906

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 100.2 | 89.8 | 134.8 |
| 132 | 95.3 | 77.4 | 116.2 |
| 97 | 64.3 | 55.1 | 82.7 |



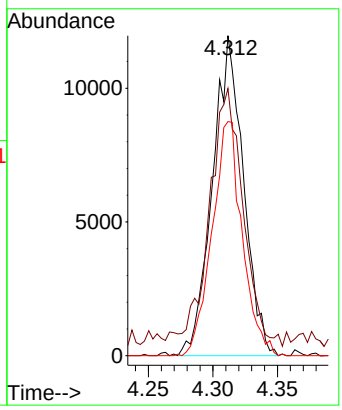


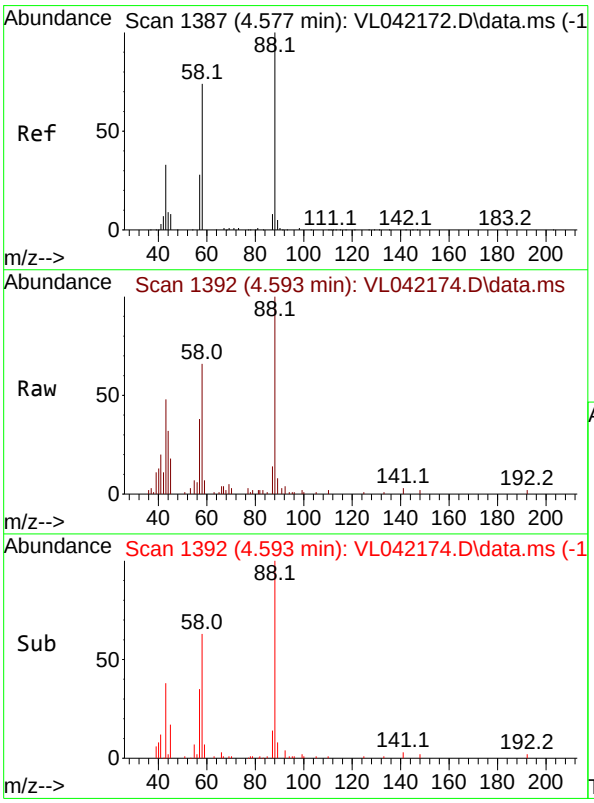

#39
1,2-Dichloropropane
Concen: 1.032 ppbv
RT: 4.312 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion: 63 Resp: 20020

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 76.8 | 61.7 | 92.5 |
| 62 | 73.1 | 57.6 | 86.4 |

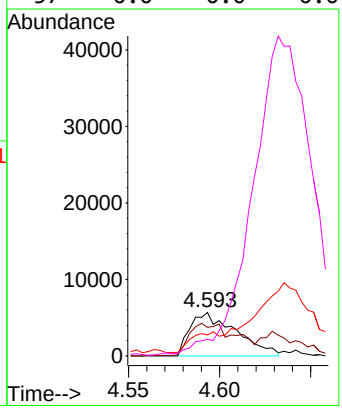


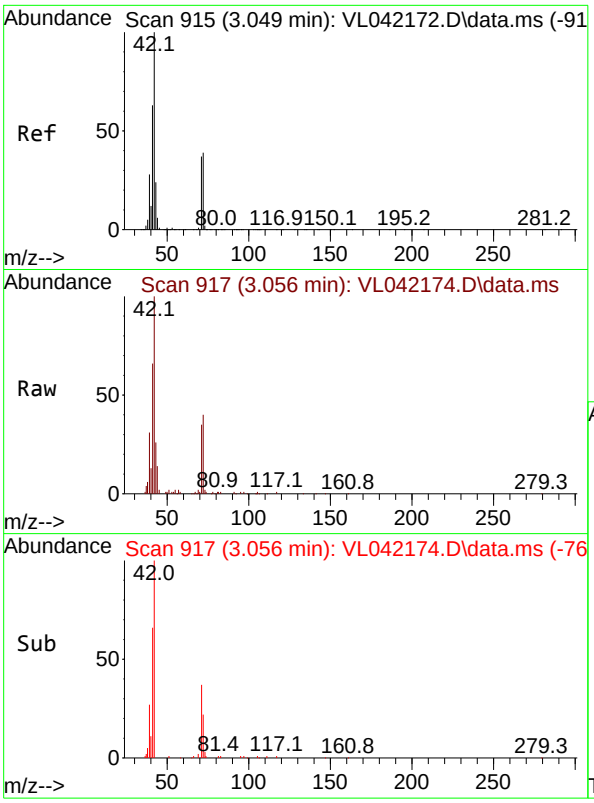




#40
1,4-Dioxane
Concen: 0.997 ppbv
RT: 4.593 min Scan# 1392
Delta R.T. 0.016 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 88 Resp: 10031

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 121.8 | 62.7 | 94.1# |
| 43 | 0.0 | 23.0 | 34.4# |
| 57 | 0.0 | 0.0 | 0.0 |



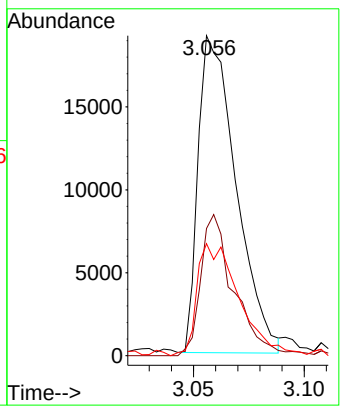


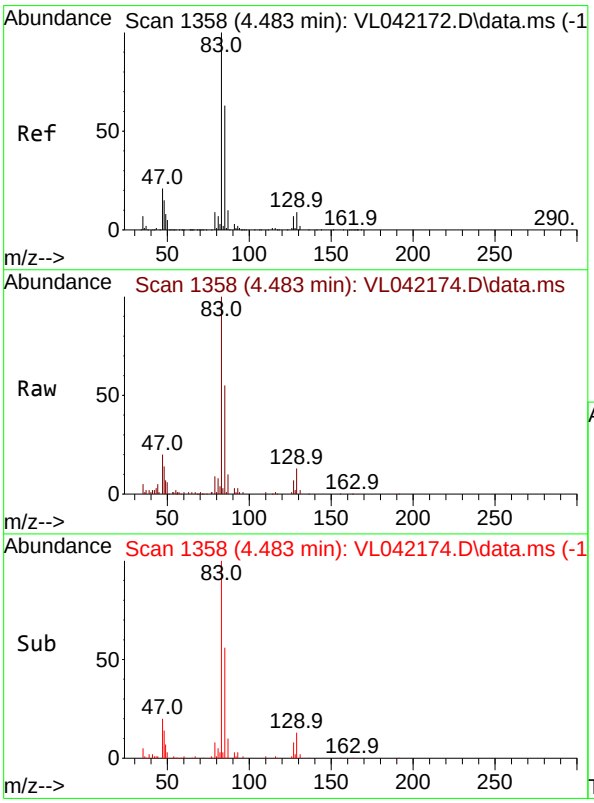

#41
Tetrahydrofuran
Concen: 1.029 ppbv
RT: 3.056 min Scan# 9
Delta R.T. 0.007 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion: 42 Resp: 22818

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 39.4 | 31.4 | 47.0 |
| 71 | 40.8 | 30.2 | 45.4 |

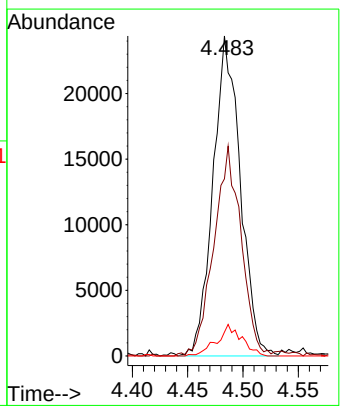


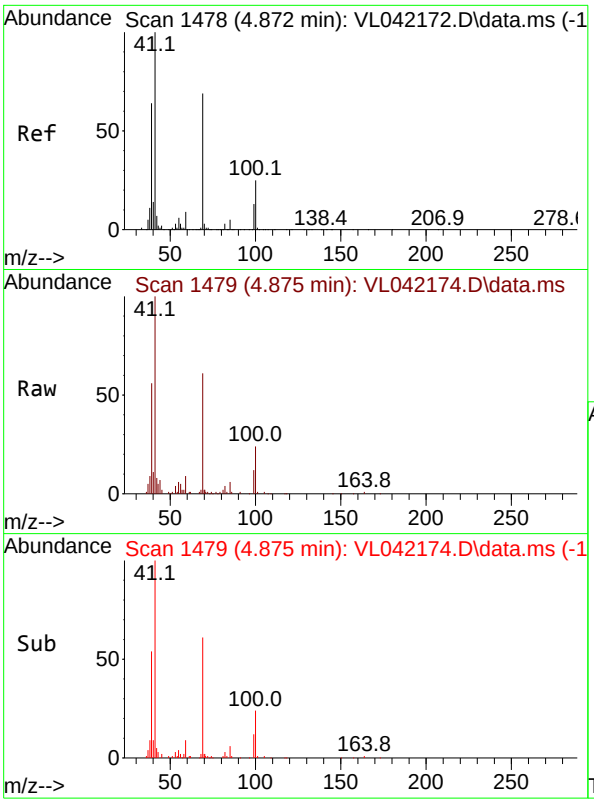




#42
Bromodichloromethane
Concen: 0.996 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 83 Resp: 41864

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 54.7 | 50.5 | 75.7 |
| 127 | 7.5 | 5.9 | 8.9 |



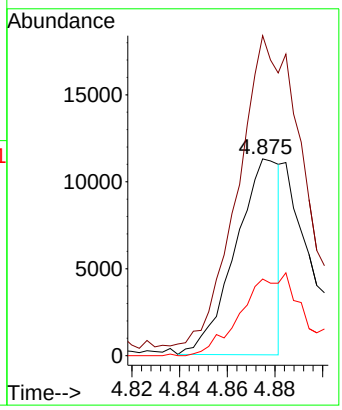


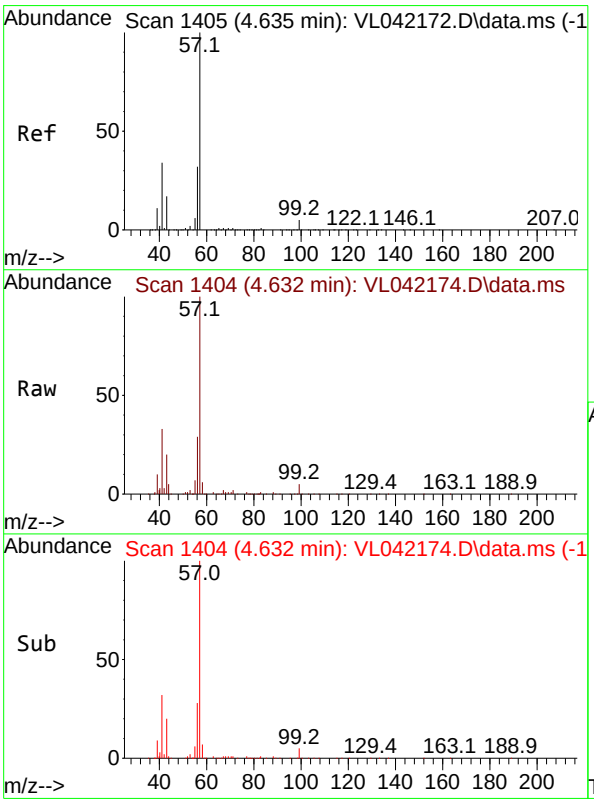

#43
Methyl Methacrylate
Concen: 0.640 ppbv
RT: 4.875 min Scan# 14
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion: 69 Resp: 14387

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 246.1 | 123.8 | 185.6# |
| 100 | 0.0 | 28.4 | 42.6# |

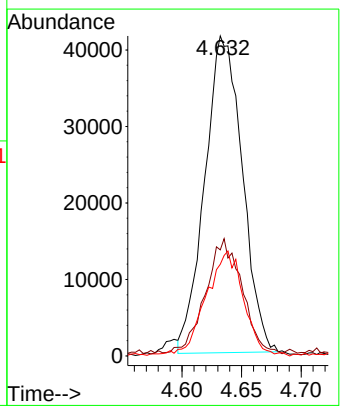


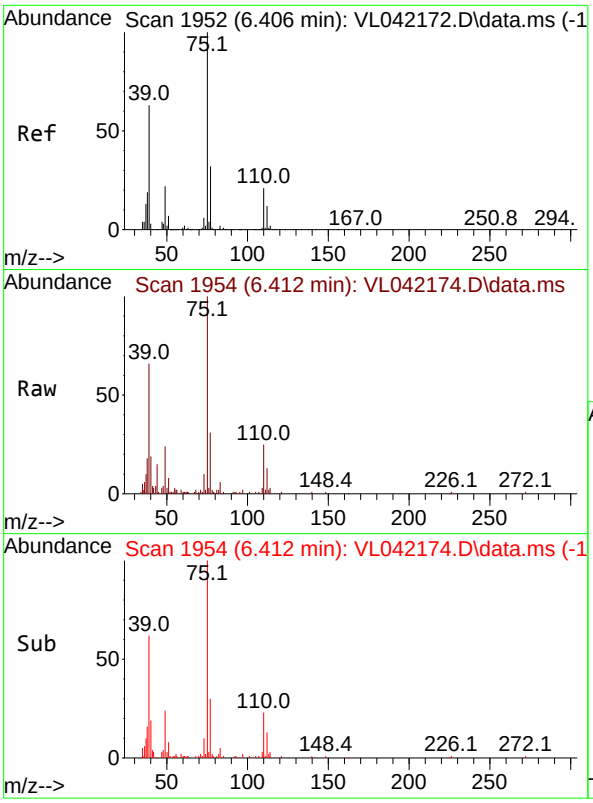




#44
2,2,4-Trimethylpentane
Concen: 1.008 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. -0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 57 Resp: 90727

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 35.9 | 26.8 | 40.2 |
| 56 | 33.7 | 25.6 | 38.4 |



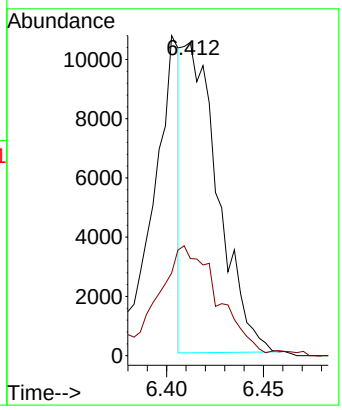


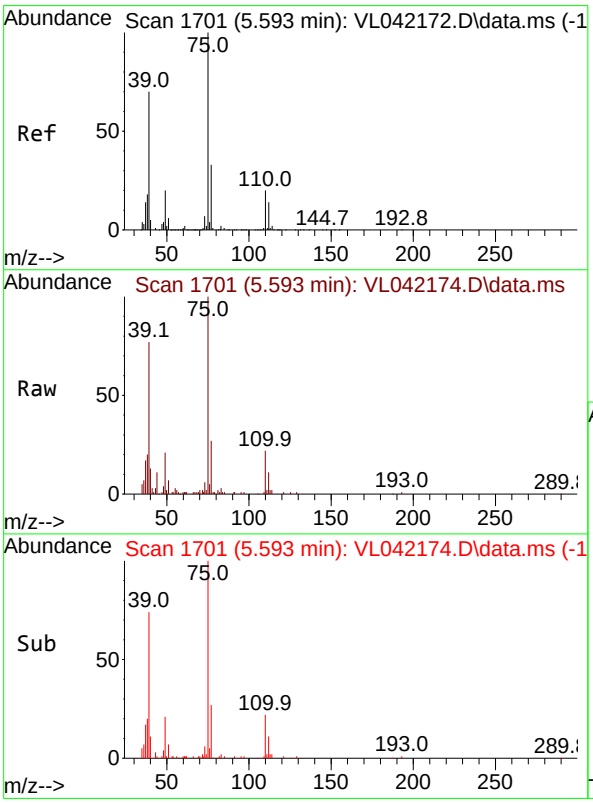

#45
t-1,3-Dichloropropene
Concen: 0.555 ppbv
RT: 6.412 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion: 75 Resp: 13431

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.0 | 26.0 | 39.0 |

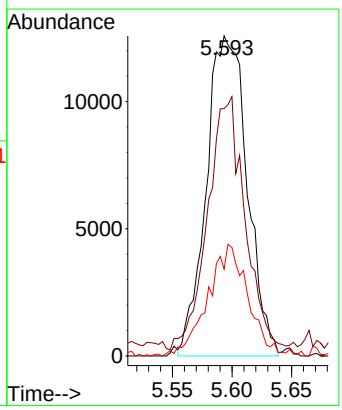


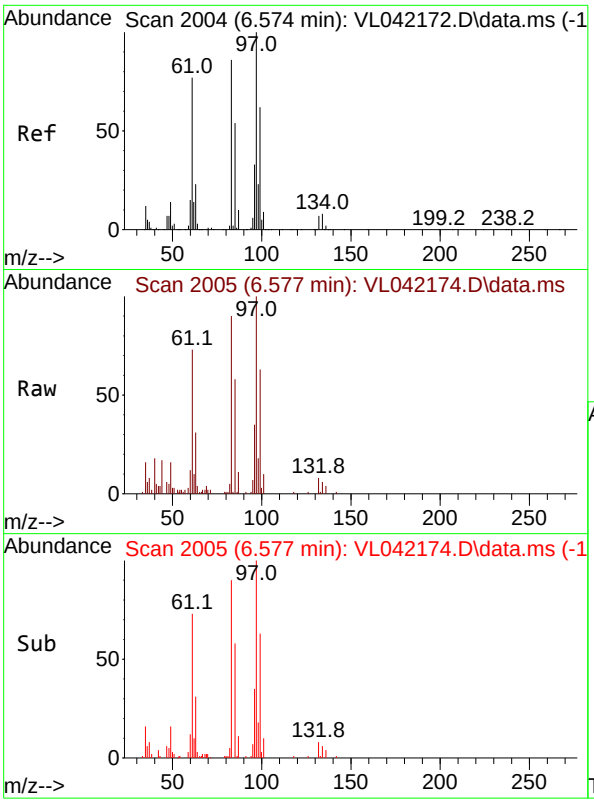




#46
cis-1,3-Dichloropropene
Concen: 1.014 ppbv
RT: 5.593 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 75 Resp: 30063

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 39 | 74.2 | 55.8 | 83.6 |
| 77 | 26.4 | 26.0 | 39.0 |



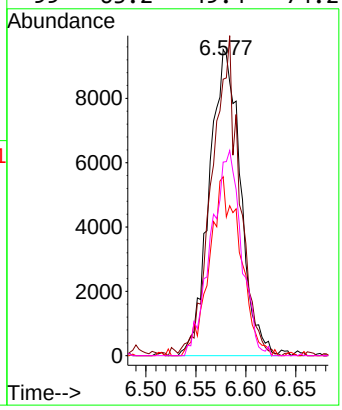


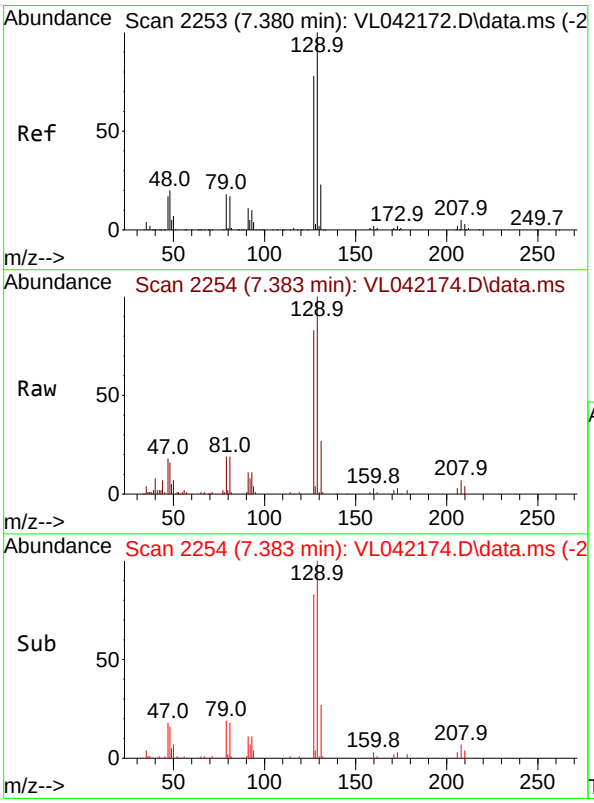

#47
1,1,2-Trichloroethane
Concen: 1.002 ppbv
RT: 6.577 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion: 97 Resp: 20546

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 89.7 | 69.2 | 103.8 |
| 85 | 58.4 | 43.1 | 64.7 |
| 99 | 63.2 | 49.4 | 74.2 |

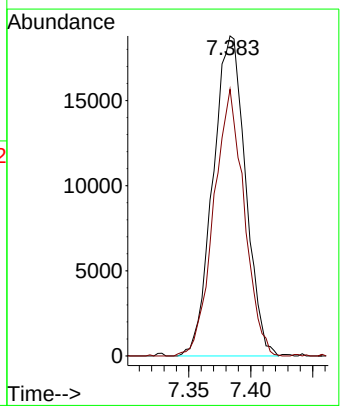


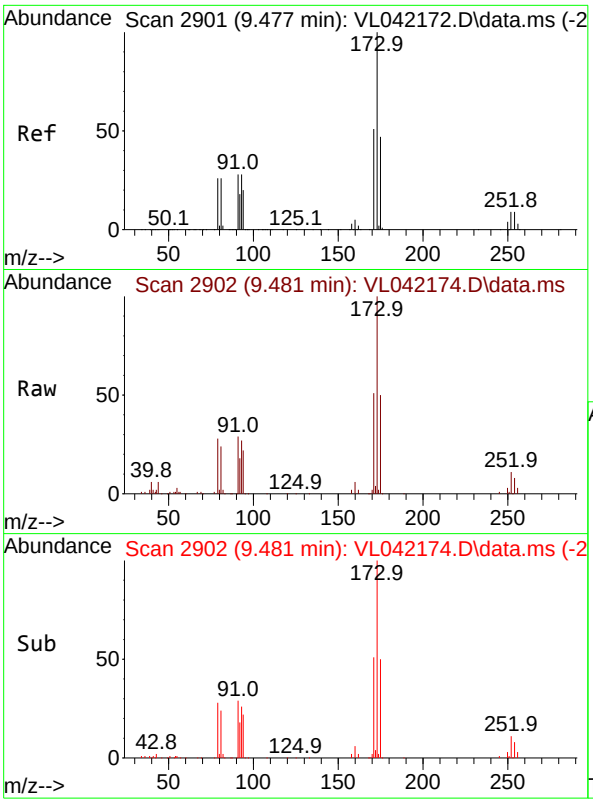




#48
Dibromochloromethane
Concen: 0.991 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:129 Resp: 34425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.1 | 39.1 | 117.2 |



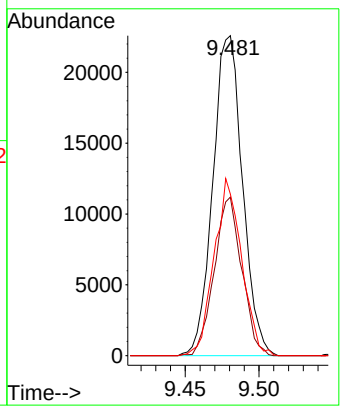


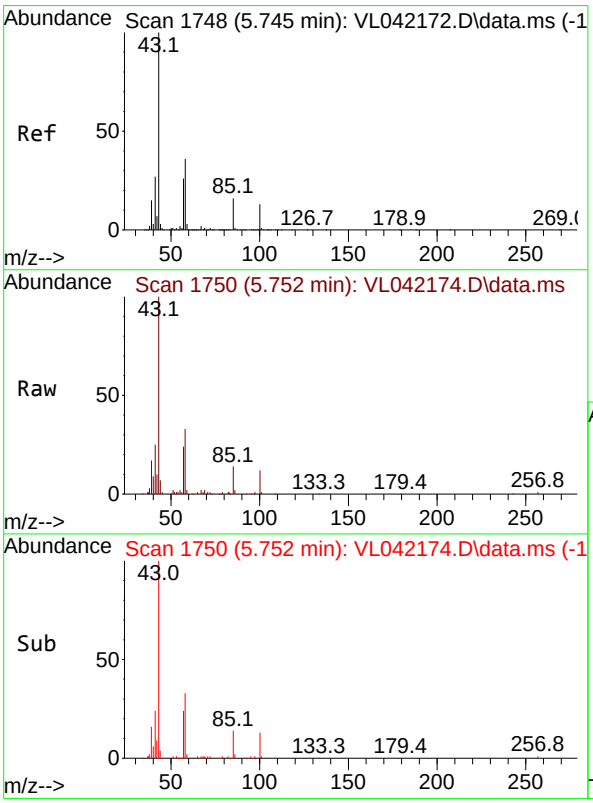

#49
Bromoform
Concen: 1.013 ppbv
RT: 9.481 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion:173 Resp: 31610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 46.1 | 38.6 | 57.8 |
| 171 | 51.3 | 41.8 | 62.6 |

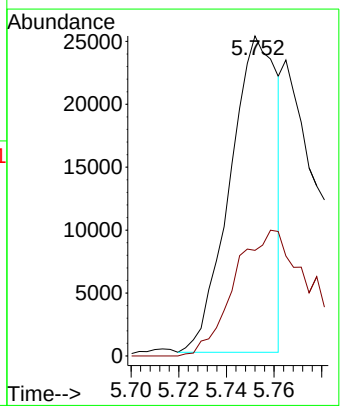


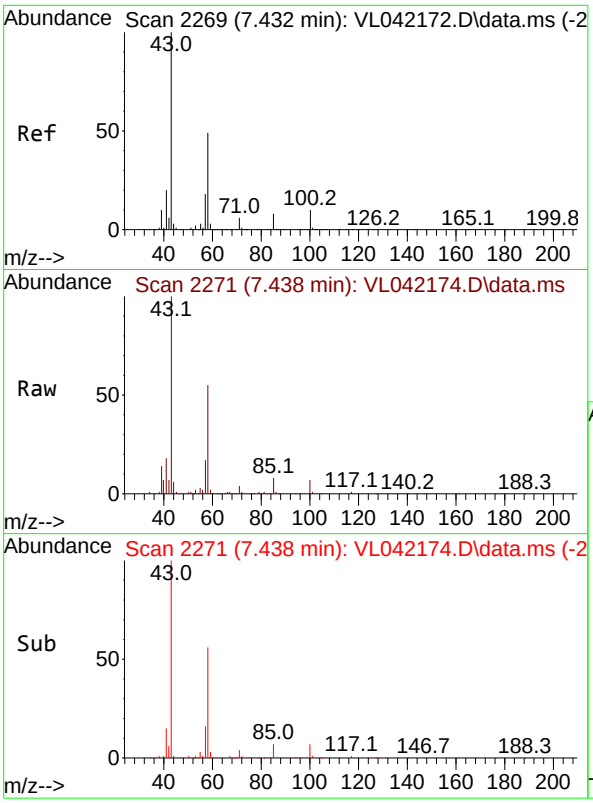




#50
4-Methyl-2-Pentanone
Concen: 0.556 ppbv
RT: 5.752 min Scan# 1750
Delta R.T. 0.007 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 43 Resp: 34358

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 0.0 | 29.0 | 43.6# |



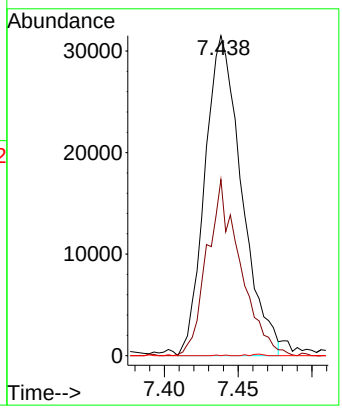


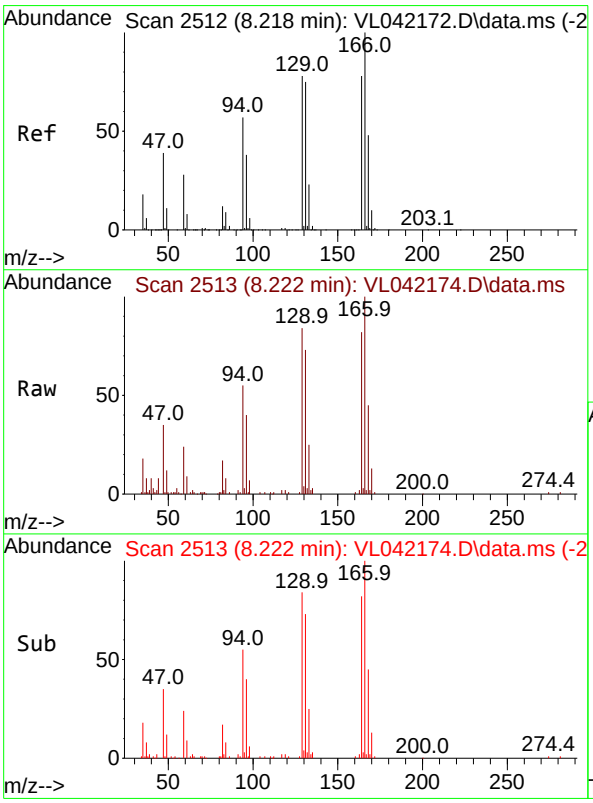

#51
2-Hexanone
Concen: 1.067 ppbv
RT: 7.438 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion: 43 Resp: 54680

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 49.8 | 39.7 | 59.5 |
| 98 | 0.2 | 0.1 | 0.1# |

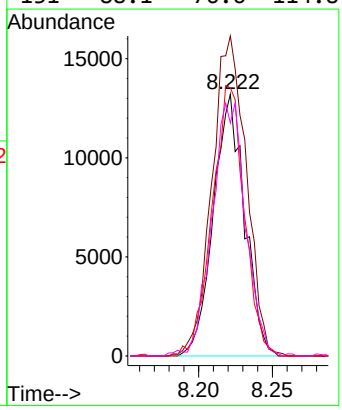


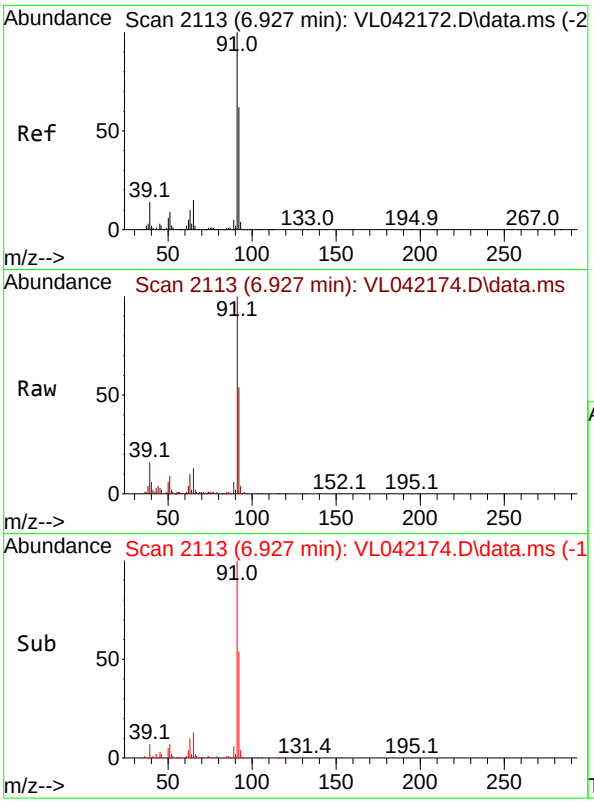




#52
Tetrachloroethene
Concen: 0.919 ppbv
RT: 8.222 min Scan# 2513
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:164 Resp: 19415

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 121.4 | 102.5 | 153.7 |
| 129 | 102.4 | 79.8 | 119.8 |
| 131 | 88.1 | 76.6 | 114.8 |



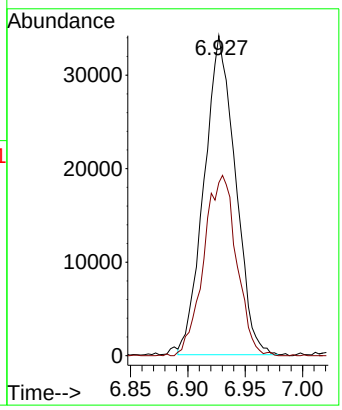


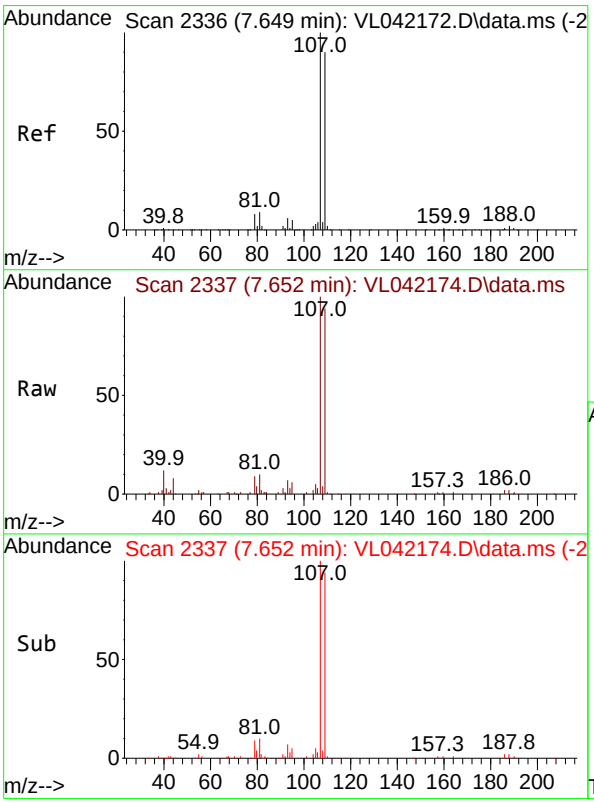

#53
Toluene
Concen: 1.023 ppbv
RT: 6.927 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion: 91 Resp: 64612

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 59.4 | 48.4 | 72.6 |

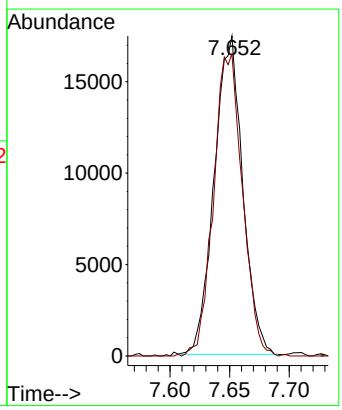


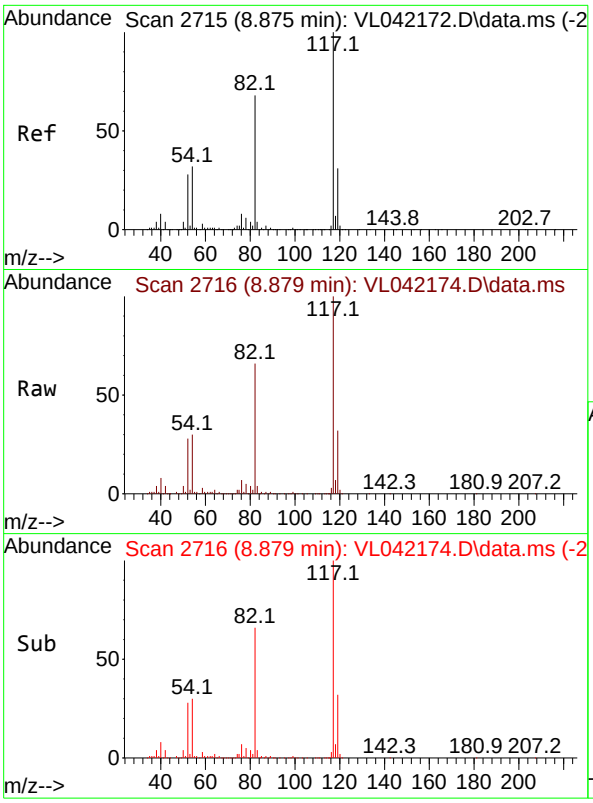




#54
1,2-Dibromoethane
Concen: 1.009 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:107 Resp: 28879

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.8 | 72.2 | 108.4 |



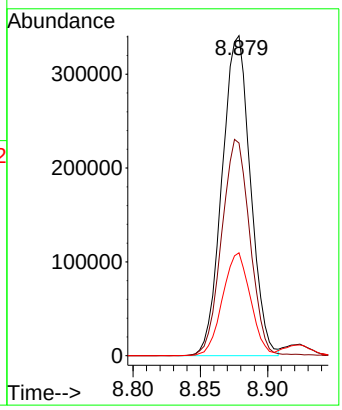


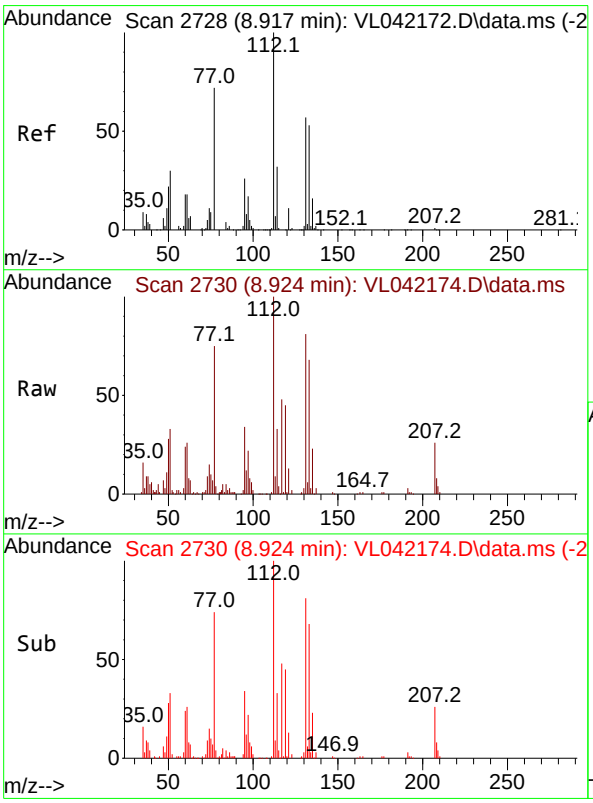

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion:117 Resp: 499830

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 67.6 | 55.8 | 83.6 |
| 119 | 32.2 | 25.5 | 38.3 |

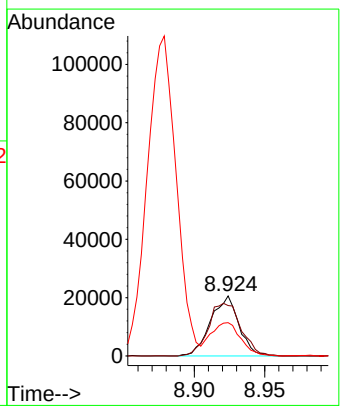


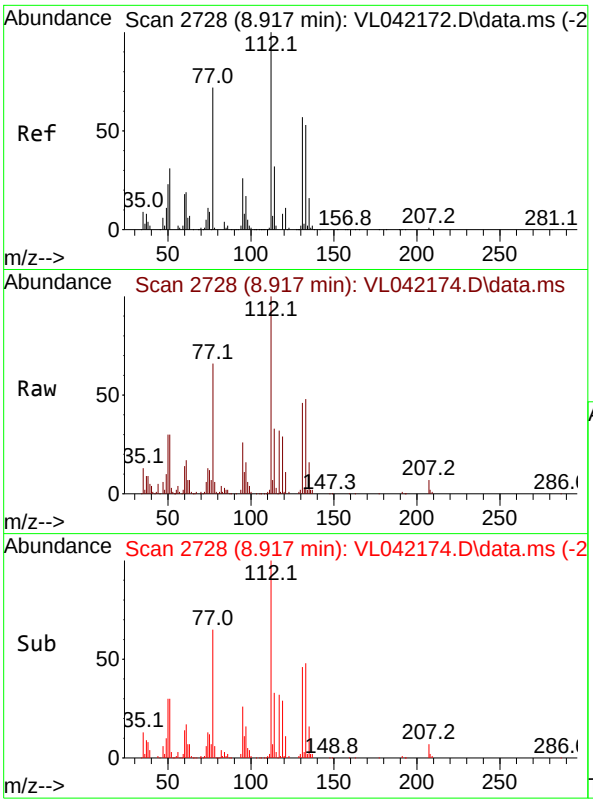




#56
1,1,1,2-Tetrachloroethane
Concen: 1.045 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. 0.007 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:131 Resp: 28764

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 101.7 | 76.6 | 114.8 |
| 119 | 44.1 | 49.8 | 74.6# |



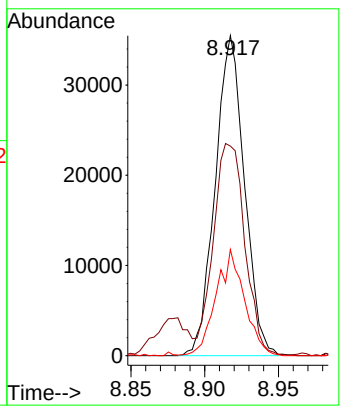


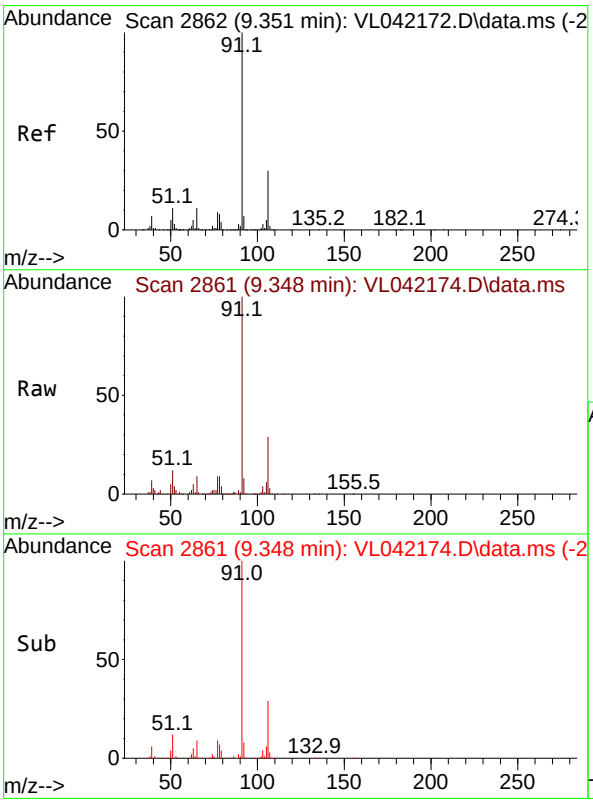

#57
Chlorobenzene
Concen: 1.032 ppbv
RT: 8.917 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion:112 Resp: 48930

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 65.0 | 58.2 | 87.2 |
| 114 | 32.9 | 29.1 | 35.5 |

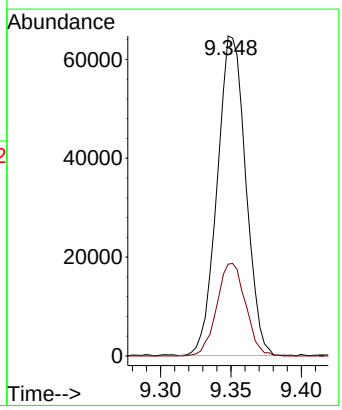


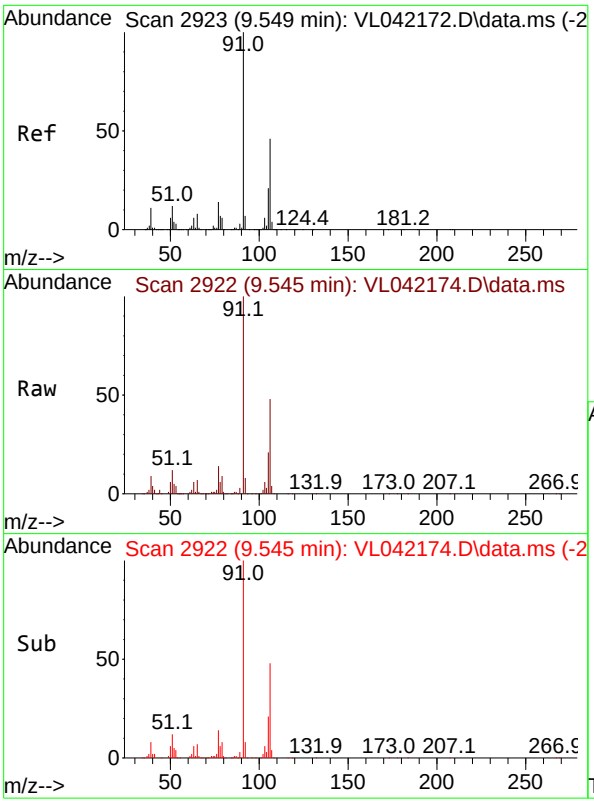




#58
Ethyl Benzene
Concen: 1.026 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. -0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 91 Resp: 91086

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 28.7 | 24.2 | 36.2 |



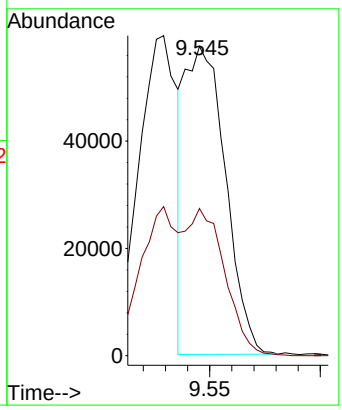


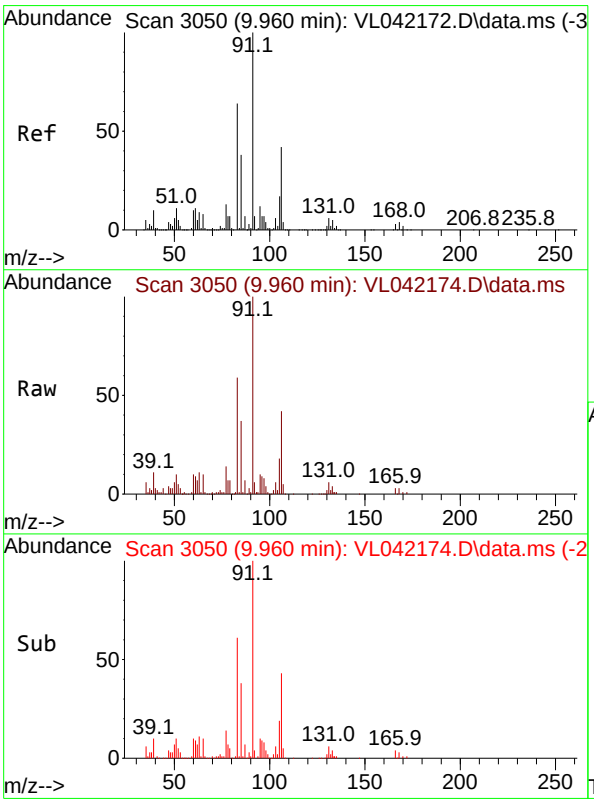

#59
m/p-Xylene
Concen: 1.033 ppbv
RT: 9.545 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion: 91 Resp: 73295

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 0.0 | 36.4 | 54.6# |

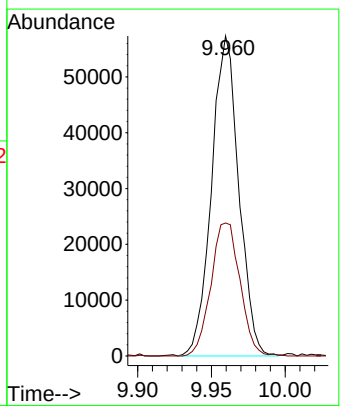


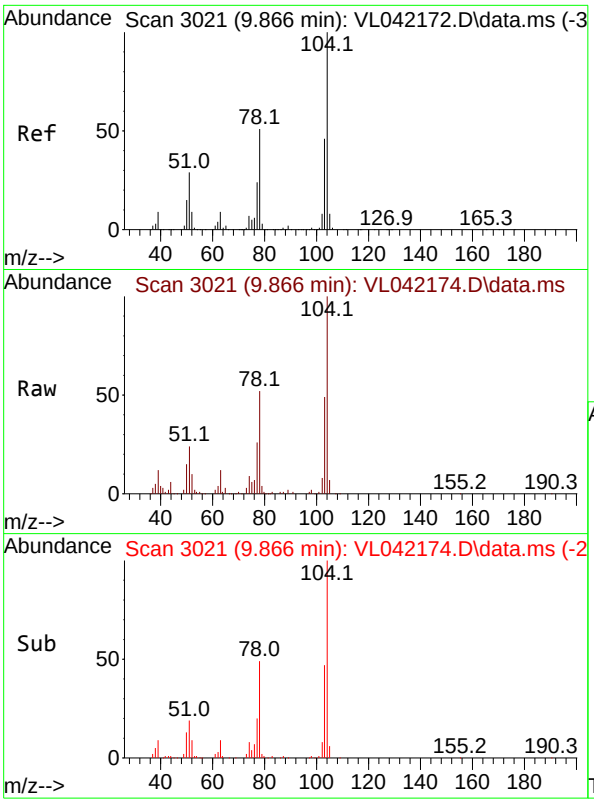




#60
o-Xylene
Concen: 1.037 ppbv
RT: 9.960 min Scan# 3050
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 91 Resp: 73702

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 44.3 | 20.8 | 62.5 |



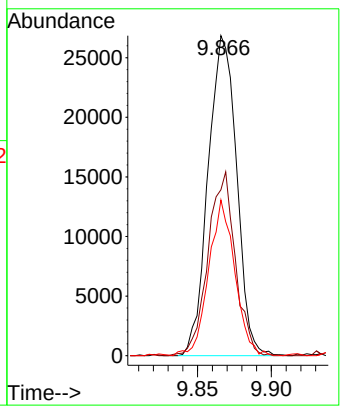


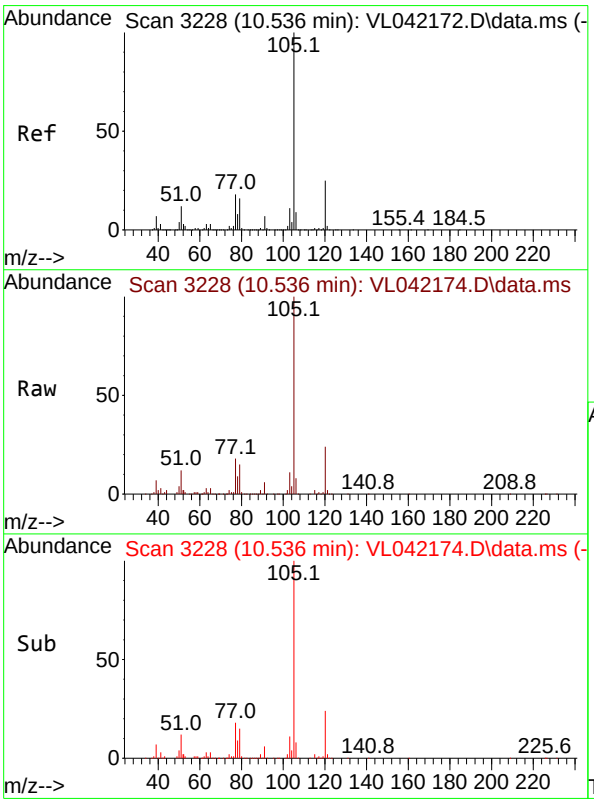

#61
Styrene
Concen: 1.027 ppbv
RT: 9.866 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion:104 Resp: 36110

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 54.9 | 41.8 | 62.6 |
| 103 | 45.1 | 37.0 | 55.4 |

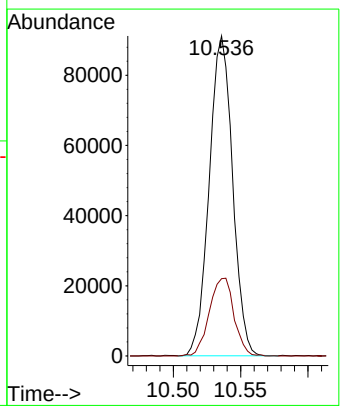


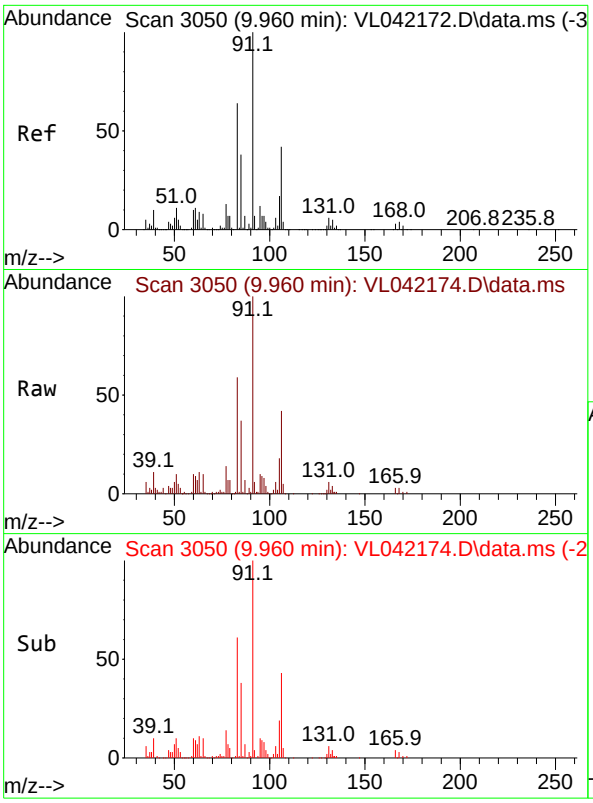




#62
Isopropylbenzene
Concen: 1.034 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:105 Resp: 109897

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.7 | 19.9 | 29.9 |



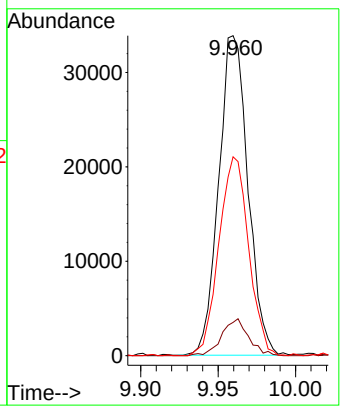


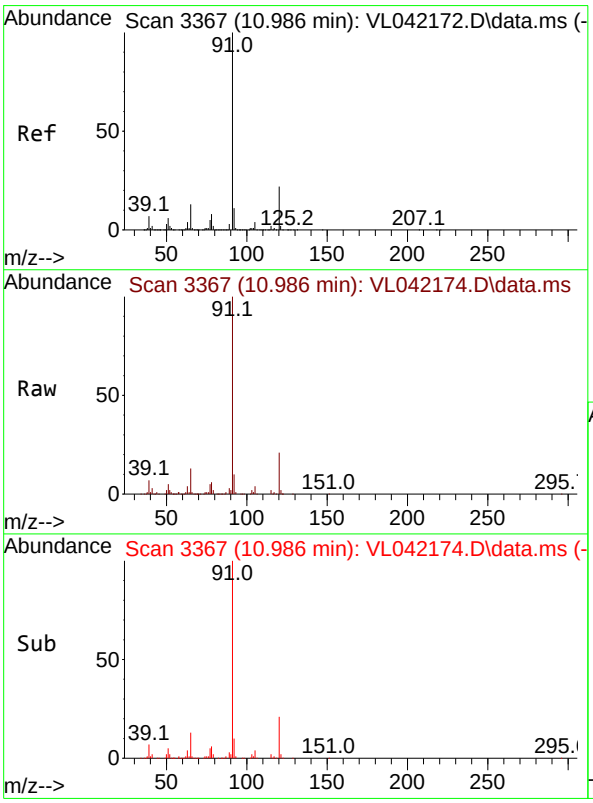

#63
1,1,2,2-Tetrachloroethane
Concen: 1.029 ppbv
RT: 9.960 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion: 83 Resp: 44431

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.6 | 4.8 | 14.4 |
| 85 | 64.0 | 32.5 | 97.5 |

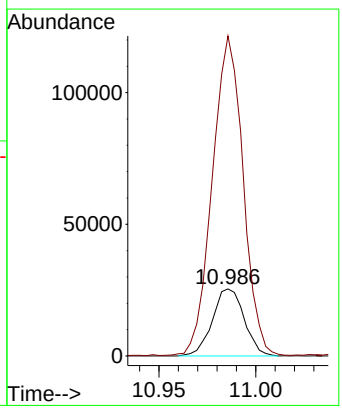


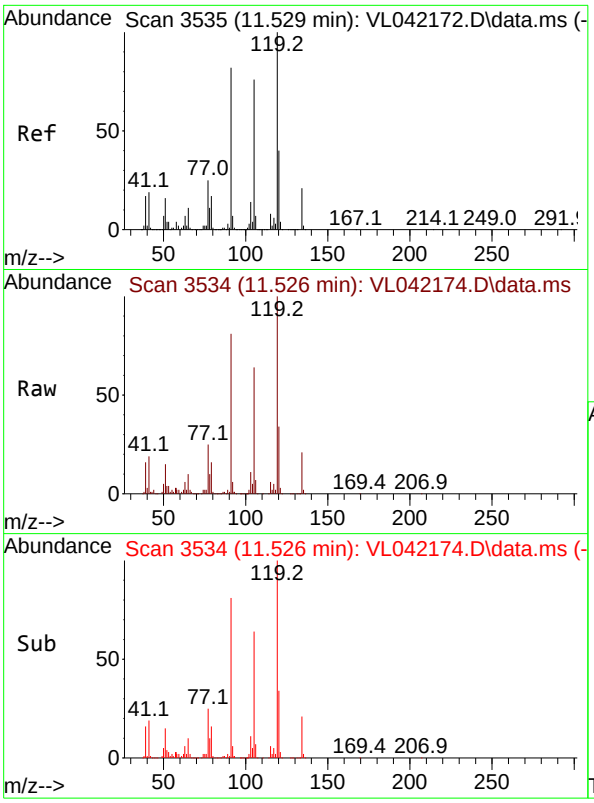




#64
n-propylbenzene
Concen: 1.062 ppbv
RT: 10.986 min Scan# 3367
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:120 Resp: 29054

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 466.9 | 376.9 | 565.3 |



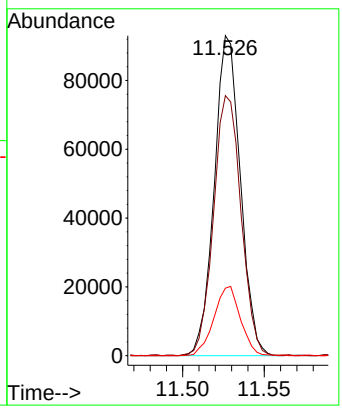


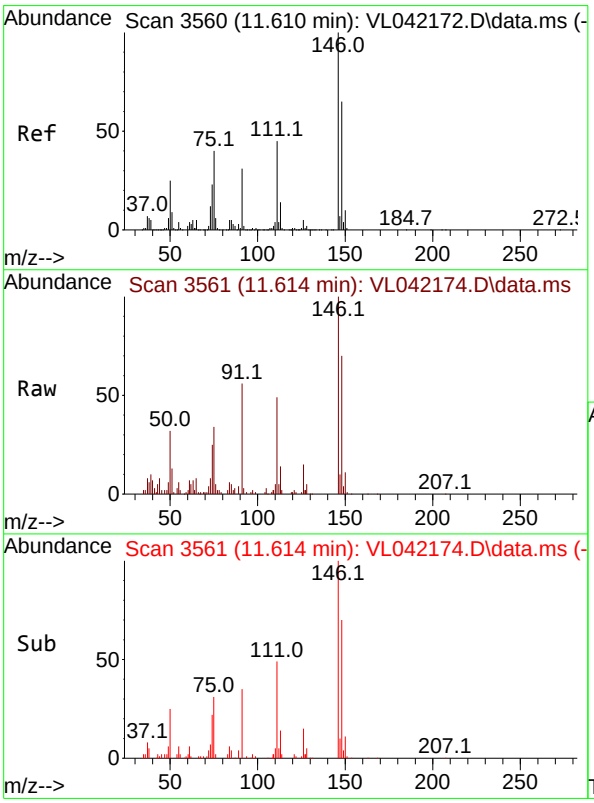

#65
tert-Butylbenzene
Concen: 1.053 ppbv
RT: 11.526 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion:119 Resp: 103520

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 85.9 | 66.0 | 99.0 |
| 134 | 22.1 | 16.7 | 25.1 |

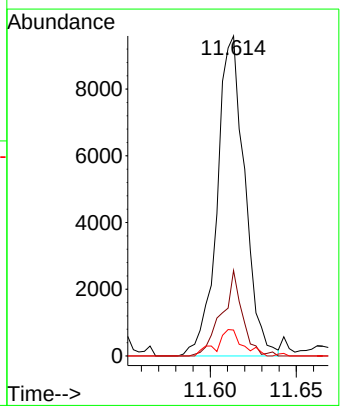


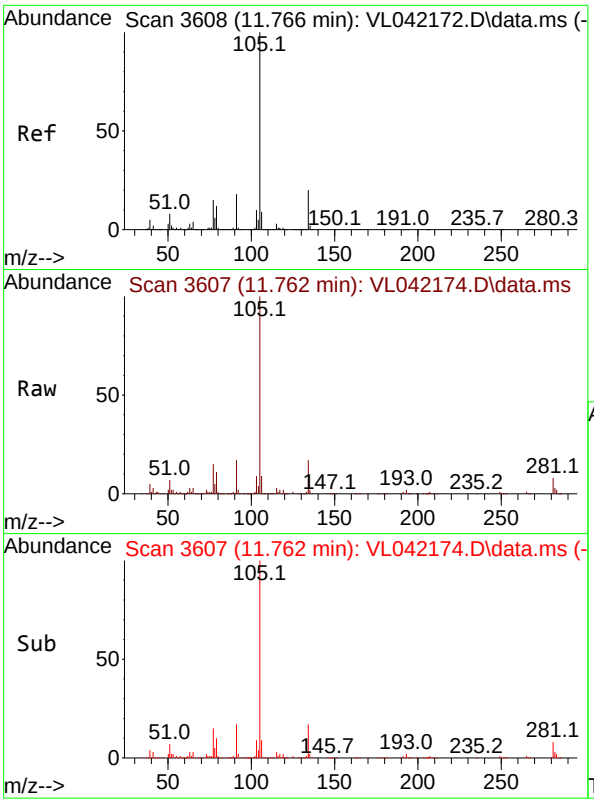




#66
Benzyl Chloride
Concen: 1.022 ppbv
RT: 11.614 min Scan# 3561
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 91 Resp: 10660

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 20.0 | 13.8 | 20.6 |
| 128 | 8.0 | 4.5 | 6.7# |



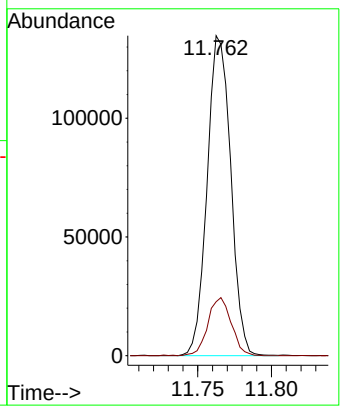


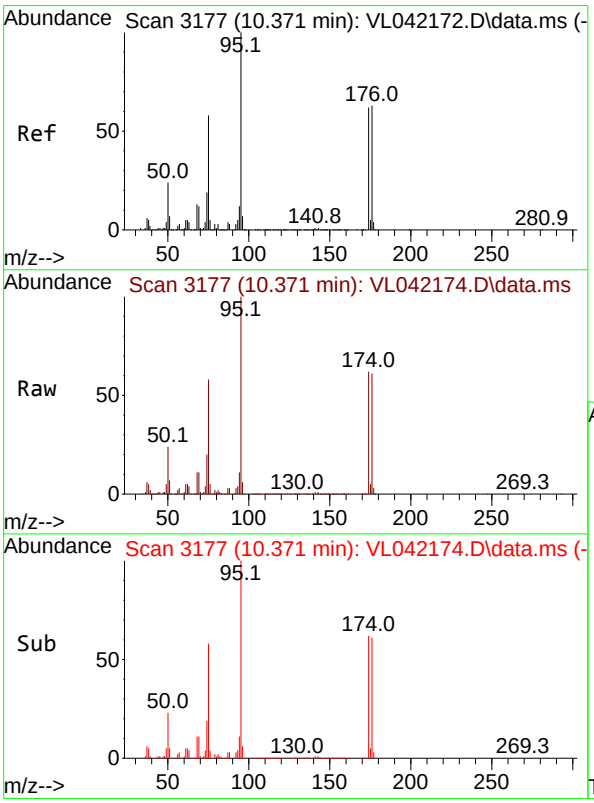

#67
sec-Butylbenzene
Concen: 1.095 ppbv
RT: 11.762 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion:105 Resp: 149660

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 18.1 | 15.5 | 23.3 |

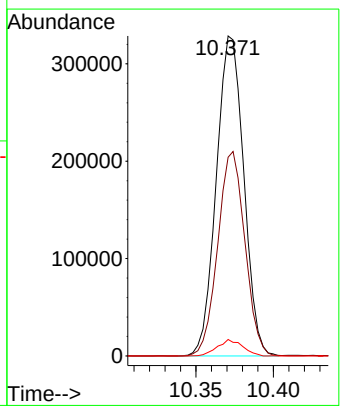


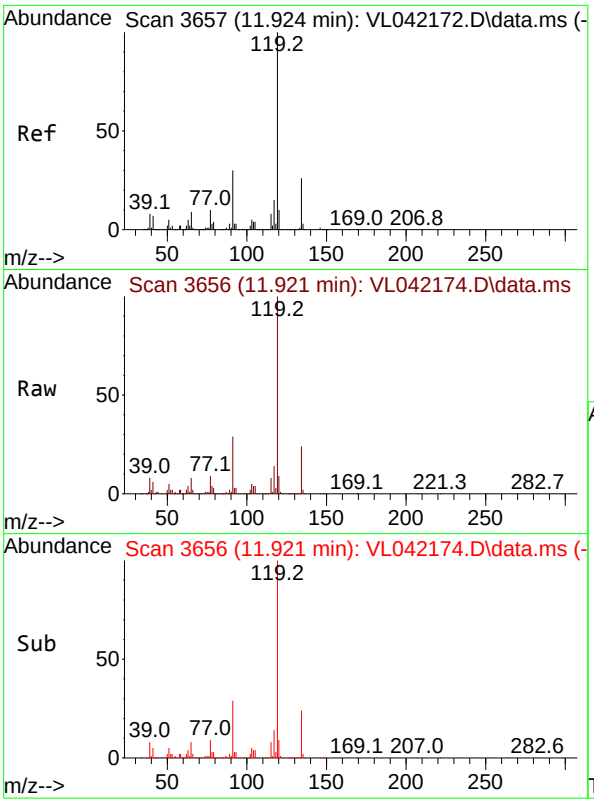




#68
1-Bromo-4-Fluorobenzene
Concen: 9.861 ppbv
RT: 10.371 min Scan# 3177
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 95 Resp: 404753

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 63.4 | 50.6 | 76.0 |
| 175 | 4.7 | 3.8 | 5.6 |



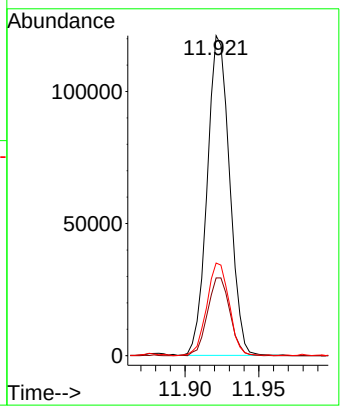


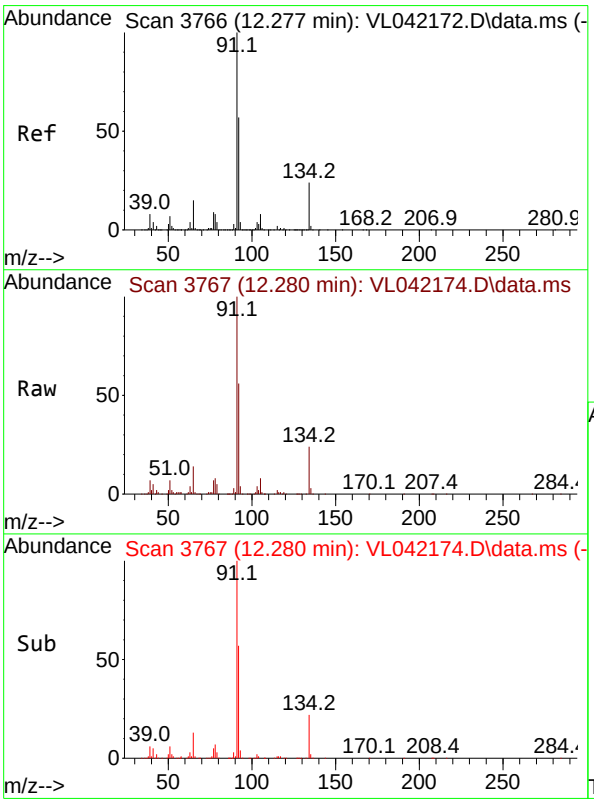

#69
p-Isopropyltoluene
Concen: 1.084 ppbv
RT: 11.921 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion:119 Resp: 127509

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 24.6 | 20.4 | 30.6 |
| 91 | 30.0 | 23.7 | 35.5 |

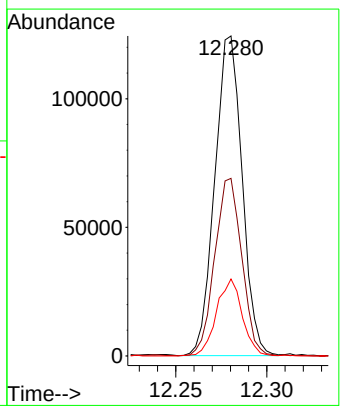


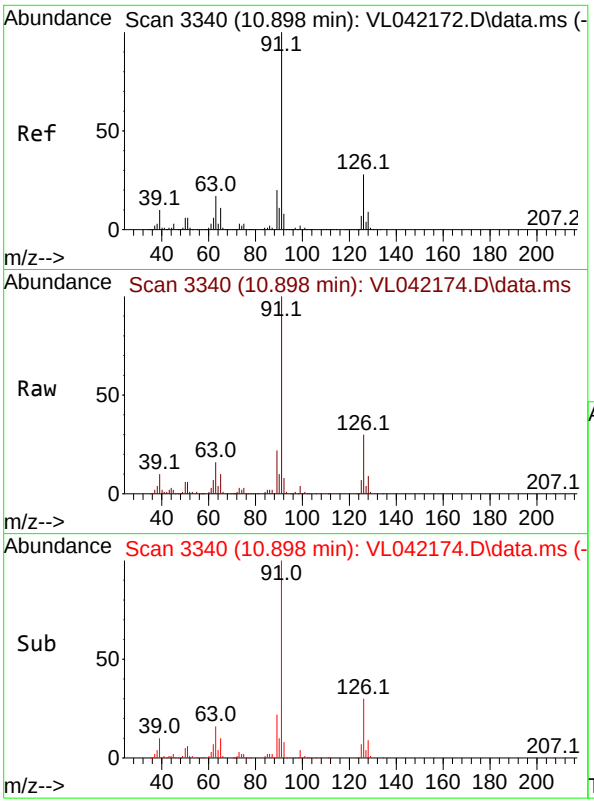




#70
n-Butylbenzene
Concen: 1.079 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 91 Resp: 129860

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 55.5 | 44.9 | 67.3 |
| 134 | 22.8 | 19.2 | 28.8 |



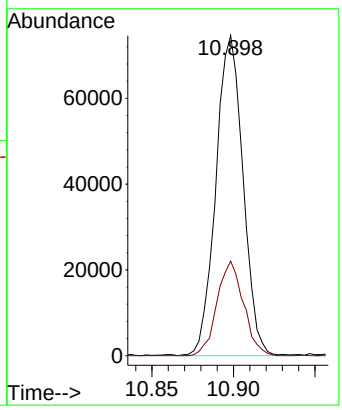


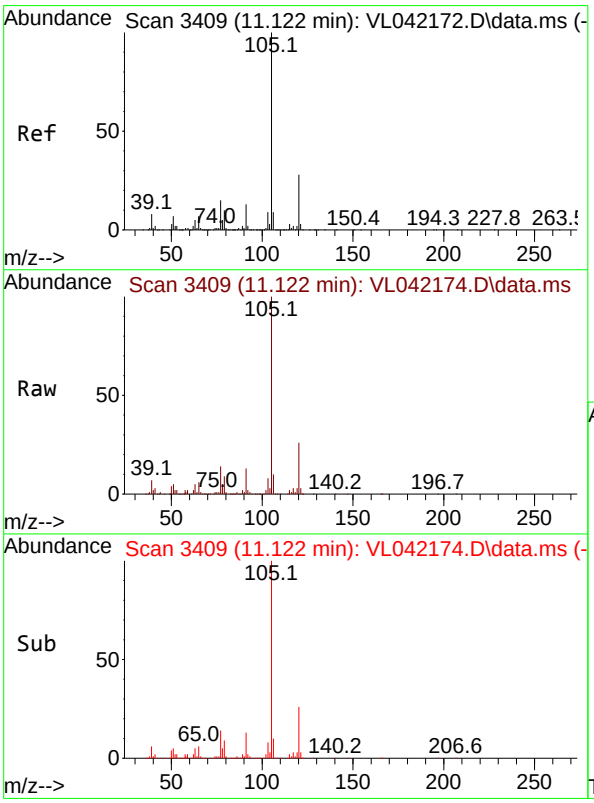

#71
2-Chlorotoluene
Concen: 1.047 ppbv
RT: 10.898 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion: 91 Resp: 86356

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 28.8 | 11.6 | 46.4 |

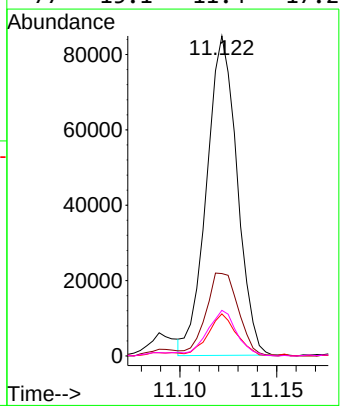


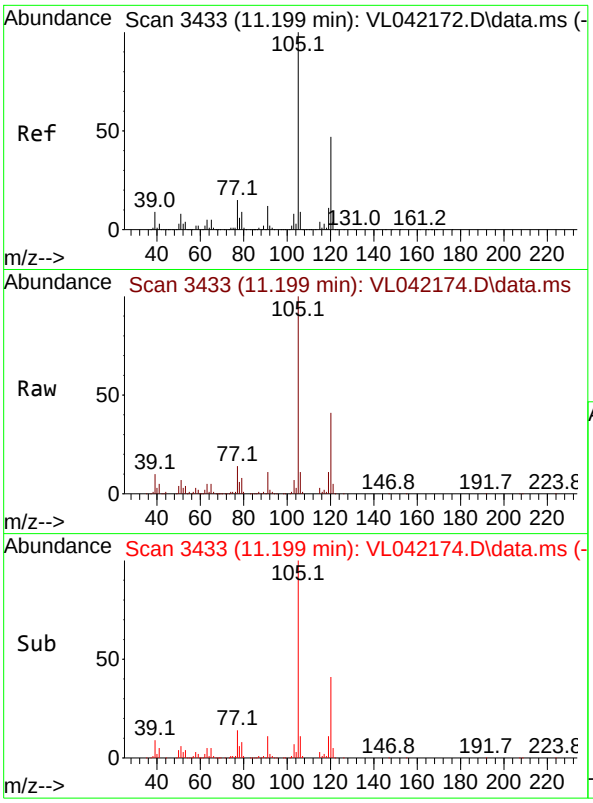




#72
4-Ethyltoluene
Concen: 1.050 ppbv
RT: 11.122 min Scan# 3409
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:105 Resp: 92912

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 29.7 | 23.4 | 35.0 |
| 91 | 13.5 | 10.3 | 15.5 |
| 77 | 15.1 | 11.4 | 17.2 |



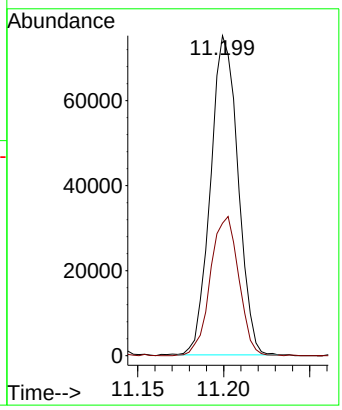


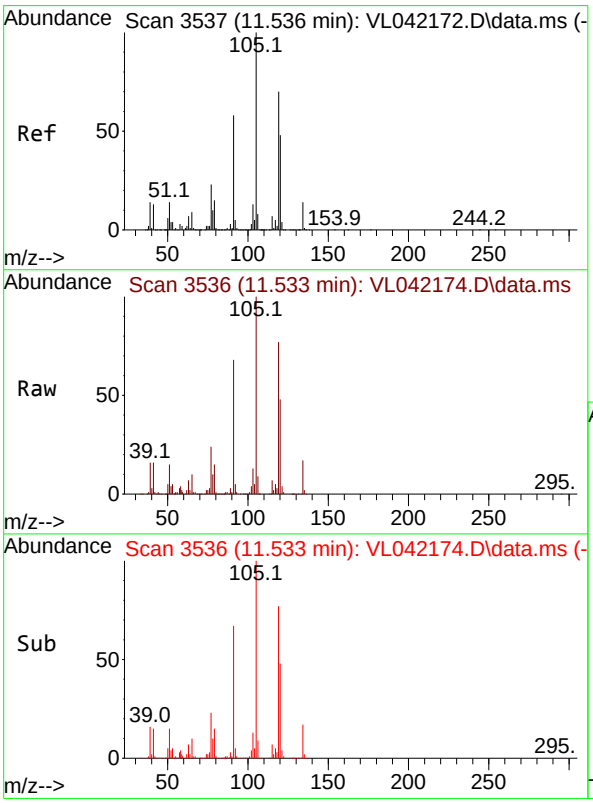

#73
1,3,5-Trimethylbenzene
Concen: 1.080 ppbv
RT: 11.199 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion:105 Resp: 83497

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 41.3 | 37.4 | 56.0 |

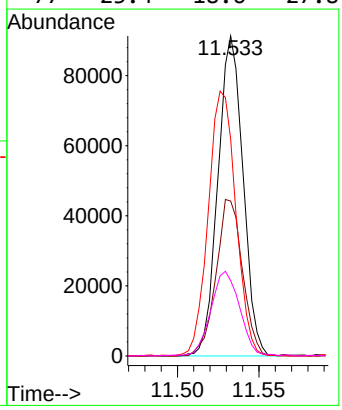


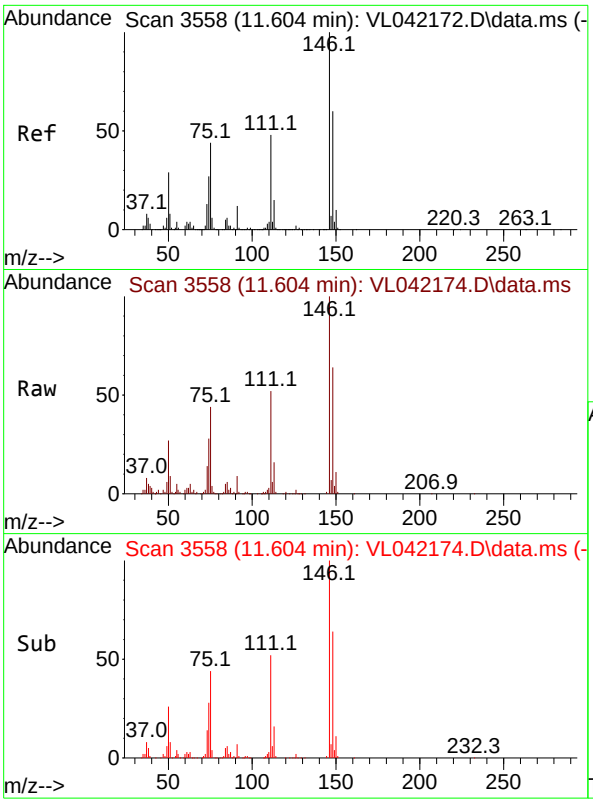




#74
1,2,4-Trimethylbenzene
Concen: 1.099 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. -0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:105 Resp: 97858

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.4 | 38.6 | 58.0 |
| 91 | 67.6 | 46.2 | 69.2 |
| 77 | 23.4 | 18.6 | 27.8 |



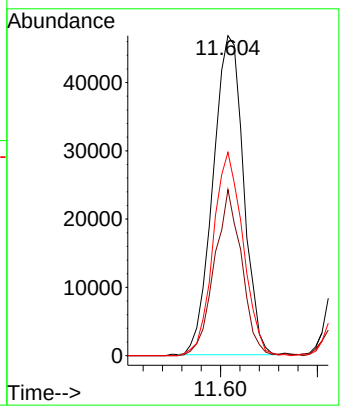


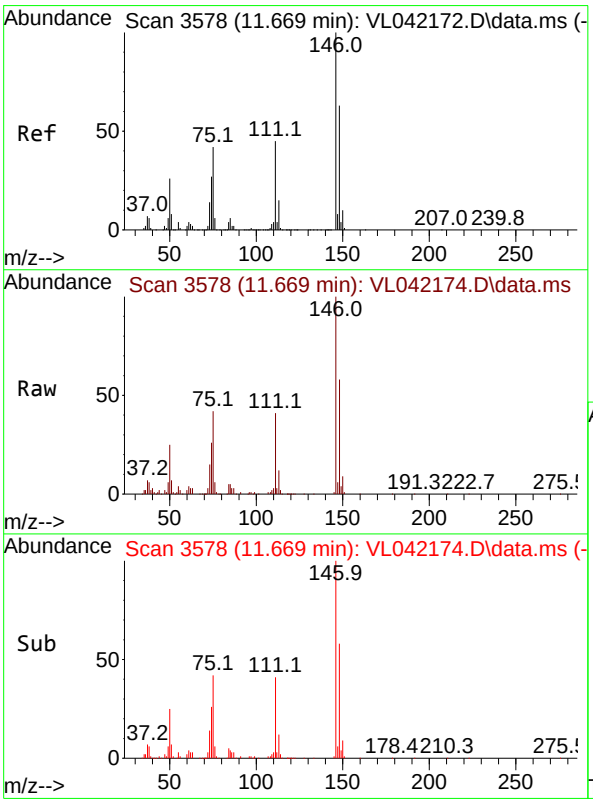

#75
1,3-Dichlorobenzene
Concen: 1.046 ppbv
RT: 11.604 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion:146 Resp: 51096

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 46.8 | 23.8 | 71.2 |
| 148 | 62.6 | 31.9 | 95.9 |

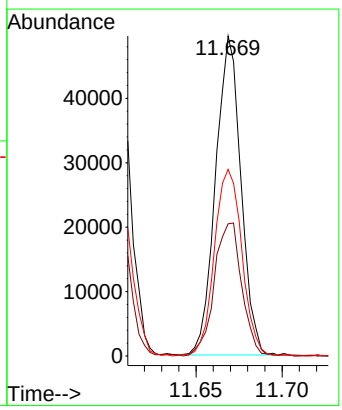


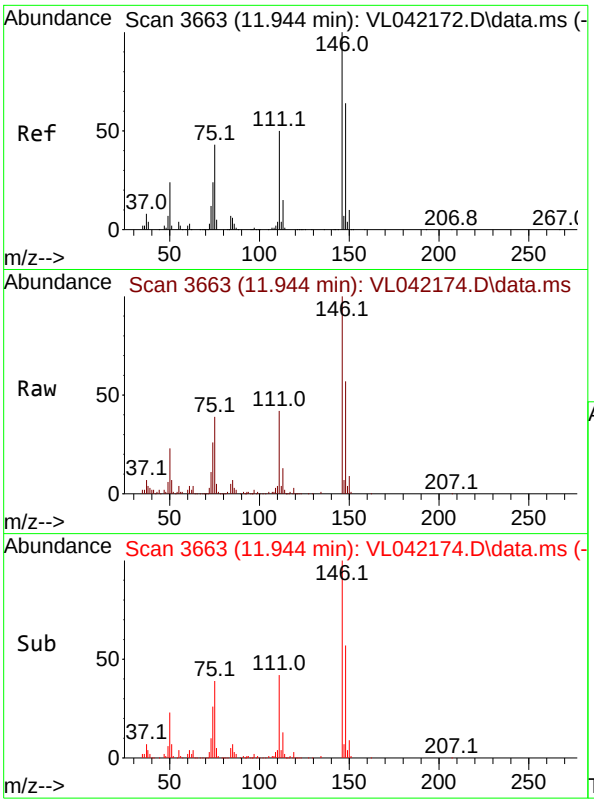




#76
1,4-Dichlorobenzene
Concen: 1.046 ppbv
RT: 11.669 min Scan# 3578
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:146 Resp: 50841

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 45.4 | 23.0 | 69.0 |
| 148 | 63.6 | 31.9 | 95.7 |



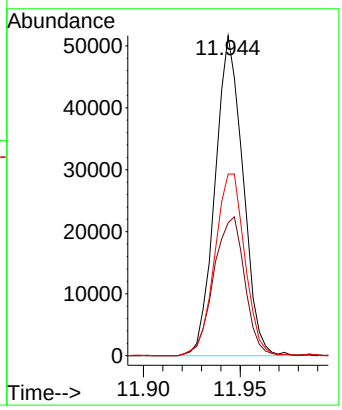


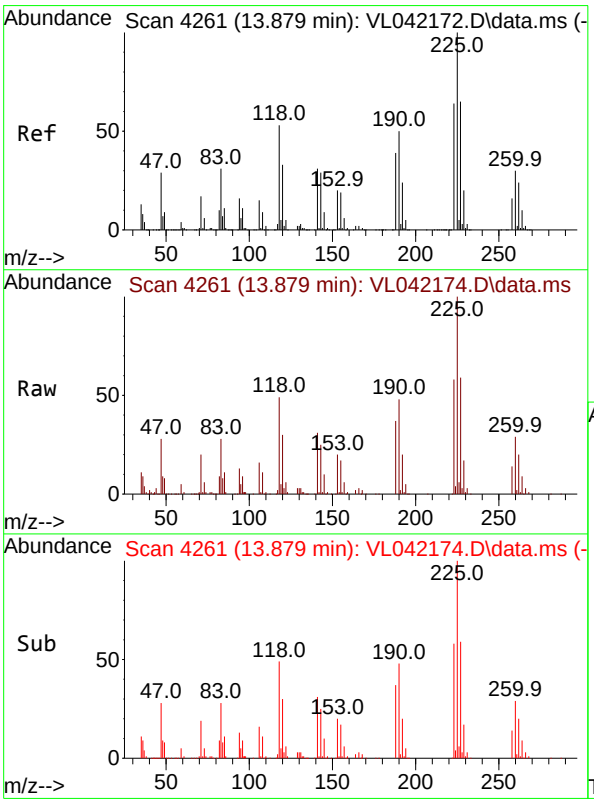

#77
1,2-Dichlorobenzene
Concen: 1.084 ppbv
RT: 11.944 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion:146 Resp: 51523

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 48.6 | 24.8 | 74.3 |
| 148 | 61.9 | 31.6 | 94.8 |

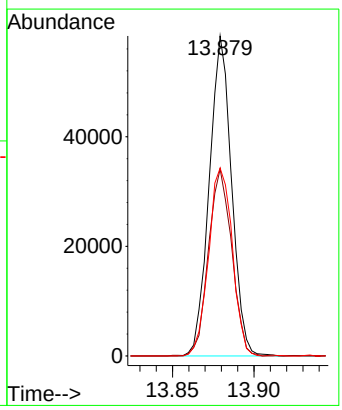


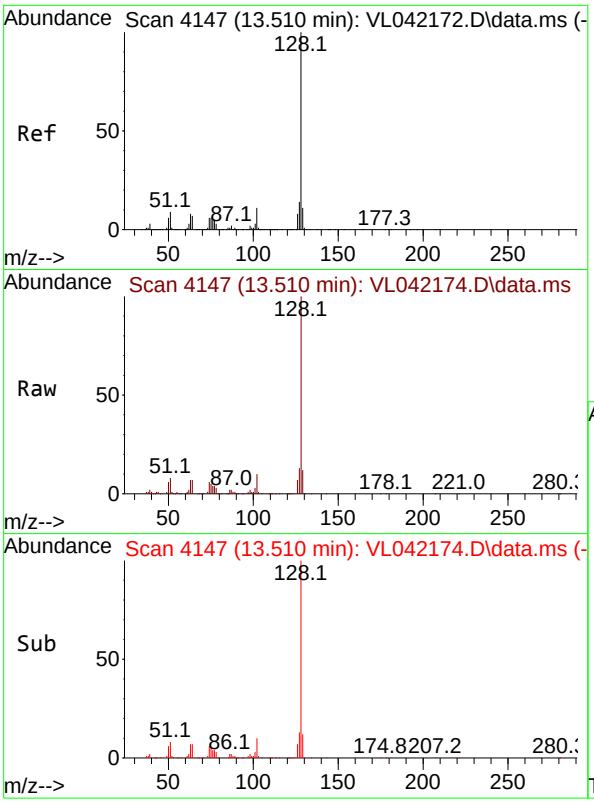




#78
Hexachloro-1,3-Butadiene
Concen: 1.149 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:225 Resp: 55611

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 60.8 | 50.6 | 76.0 |
| 227 | 62.3 | 51.2 | 76.8 |



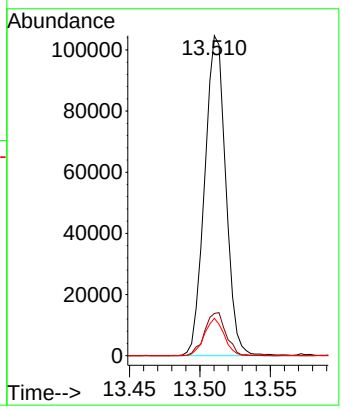


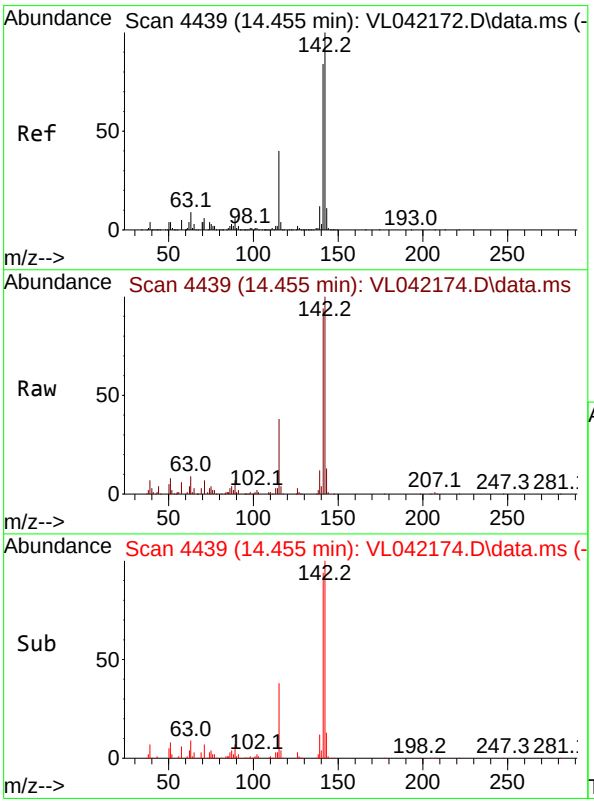

#79
Naphthalene
Concen: 1.120 ppbv
RT: 13.510 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion:128 Resp: 109031

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.2 | 10.8 | 16.2 |
| 129 | 11.7 | 9.0 | 13.4 |

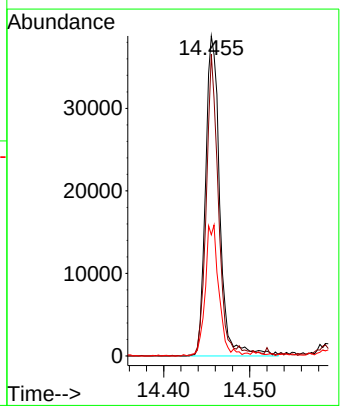


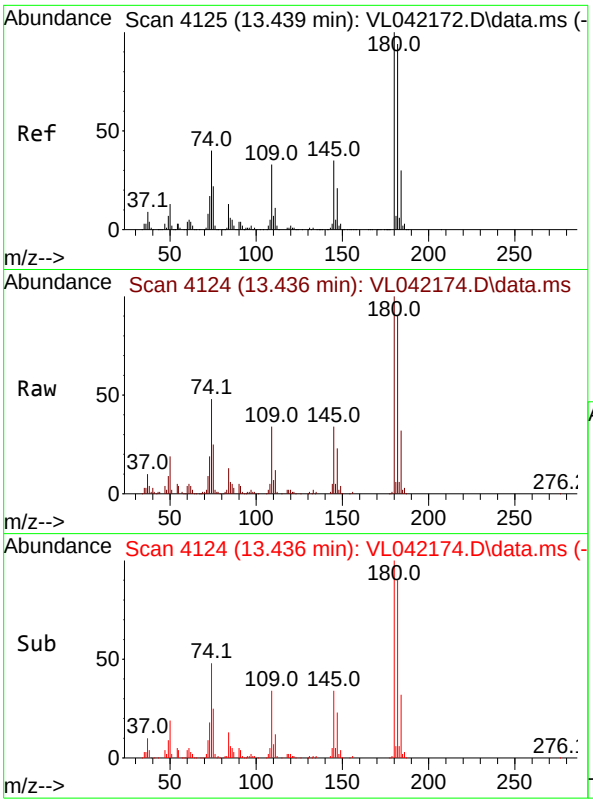




#80
Naphthalene,2-methyl-
Concen: 0.939 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:142 Resp: 44518

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 83.4 | 66.3 | 99.5 |
| 115 | 41.5 | 31.6 | 47.4 |



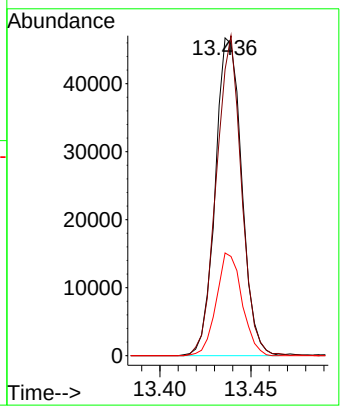



#81
1,2,4-Trichlorobenzene
Concen: 1.047 ppbv
RT: 13.436 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion:180 Resp: 47040

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.7 | 75.1 | 112.7 |
| 184 | 31.4 | 24.4 | 36.6 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042175.D
Acq On : 27 Mar 2025 10:01
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Quant Time: Mar 28 01:34:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) Bromochloromethane | 2.784 | 49 | 180502 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.952 | 114 | 523832 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.875 | 117 | 485078 | 10.000 | ppbv | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.370 | 95 | 403513 | 10.130 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 101.300% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.496 | 85 | 14455 | 0.542 | ppbv | | 95 |
| 3) Chlorodifluoromethane | 1.473 | 51 | 14637 | 0.538 | ppbv | # | 89 |
| 4) Chloromethane | 1.531 | 50 | 5956 | 0.547 | ppbv | | 94 |
| 5) Vinyl Chloride | 1.577 | 62 | 5732 | 0.516 | ppbv | | 92 |
| 6) Bromomethane | 1.664 | 94 | 2949 | 0.597 | ppbv | | 95 |
| 7) Chloroethane | 1.703 | 64 | 2582 | 0.591 | ppbv | # | 87 |
| 8) Dichlorotetrafluoroethane | 1.551 | 85 | 11783 | 0.519 | ppbv | | 98 |
| 9) Propene | 1.557 | 41 | 2054 | 0.167 | ppbv | | 92 |
| 10) Heptane | 4.972 | 43 | 16673 | 0.502 | ppbv | | 89 |
| 11) Trichlorofluoromethane | 1.874 | 101 | 14099 | 0.544 | ppbv | | 92 |
| 12) 1,1,2-Trichlorotrifluo... | 2.136 | 101 | 11252 | 0.528 | ppbv | | 99 |
| 13) Ethanol | 1.722 | 45 | 997 | 1.038 | ppbv | # | 36 |
| 14) Bromoethene | 1.780 | 108 | 4770 | 0.584 | ppbv | # | 86 |
| 15) Acetone | 1.835 | 43 | 15331 | 0.607 | ppbv | # | 85 |
| 16) 1,3-Butadiene | 1.606 | 39 | 8594 | 0.757 | ppbv | | 82 |
| 17) tert-Butyl alcohol | 2.039 | 59 | 17467 | 0.556 | ppbv | | 97 |
| 18) 1,1-Dichloroethene | 2.030 | 96 | 5634 | 0.565 | ppbv | # | 92 |
| 19) Isopropyl Alcohol | 1.884 | 45 | 9171 | 0.644 | ppbv | # | 39 |
| 20) Methylene Chloride | 2.059 | 84 | 5634 | 0.599 | ppbv | # | 93 |
| 21) Allyl Chloride | 2.091 | 41 | 9632 | 0.541 | ppbv | | 89 |
| 22) trans-1,2-Dichloroethene | 2.334 | 96 | 6353 | 0.546 | ppbv | | 83 |
| 23) Vinyl Acetate | 2.457 | 43 | 6809 | 0.649 | ppbv | # | 91 |
| 24) 1,1-Dichloroethane | 2.405 | 63 | 11258 | 0.527 | ppbv | | 97 |
| 25) Ethyl Acetate | 2.836 | 43 | 36258 | 0.553 | ppbv | | 98 |
| 26) Hexane | 2.823 | 57 | 13605 | 0.538 | ppbv | | 92 |
| 27) Carbon Disulfide | 2.146 | 76 | 14510 | 0.535 | ppbv | # | 1 |
| 28) Methyl tert-Butyl Ether | 2.437 | 73 | 8310 | 0.527 | ppbv | # | 89 |
| 29) Chloroform | 2.845 | 83 | 20149 | 0.544 | ppbv | | 98 |
| 30) Cyclohexane | 3.852 | 84 | 9635 | 0.438 | ppbv | # | 70 |
| 31) cis-1,2-Dichloroethene | 2.719 | 61 | 13601 | 0.529 | ppbv | | 92 |
| 32) 1,1,1-Trichloroethane | 3.360 | 97 | 20567 | 0.485 | ppbv | | 100 |
| 34) 2-Butanone | 2.557 | 43 | 19739 | 0.520 | ppbv | | 96 |
| 35) Carbon Tetrachloride | 3.755 | 117 | 18558 | 0.460 | ppbv | | 93 |
| 36) Benzene | 3.651 | 78 | 27488 | 0.529 | ppbv | # | 87 |
| 37) 1,2-Dichloroethane | 3.214 | 62 | 16062 | 0.540 | ppbv | | 100 |
| 38) Trichloroethene | 4.545 | 130 | 4992 | 0.230 | ppbv | | 95 |
| 39) 1,2-Dichloropropane | 4.308 | 63 | 10123 | 0.535 | ppbv | | 92 |
| 40) 1,4-Dioxane | 4.593 | 88 | 4487 | 0.457 | ppbv | # | 24 |
| 41) Tetrahydrofuran | 3.059 | 42 | 10856 | 0.502 | ppbv | | 94 |
| 42) Bromodichloromethane | 4.483 | 83 | 20374 | 0.497 | ppbv | # | 98 |
| 43) Methyl Methacrylate | 4.875 | 69 | 6229 | 0.284 | ppbv | # | 10 |
| 44) 2,2,4-Trimethylpentane | 4.632 | 57 | 46646 | 0.532 | ppbv | | 95 |
| 45) t-1,3-Dichloropropene | 6.406 | 75 | 12404 | 0.526 | ppbv | # | 79 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042175.D
Acq On : 27 Mar 2025 10:01
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Quant Time: Mar 28 01:34:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

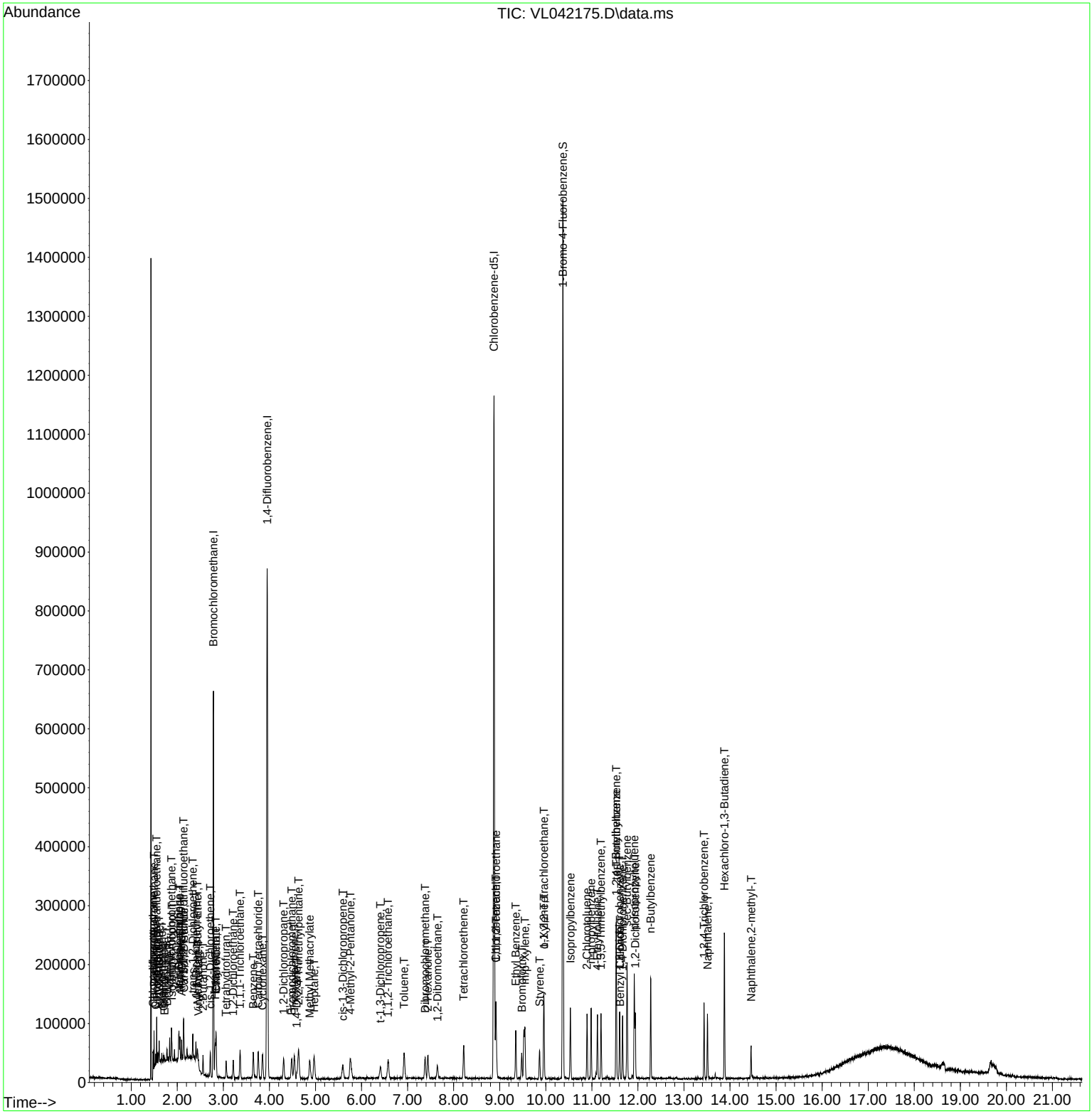
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.593 | 75 | 8584 | 0.297 | ppbv | # | 91 |
| 47) 1,1,2-Trichloroethane | 6.574 | 97 | 8374 | 0.419 | ppbv | | 96 |
| 48) Dibromochloromethane | 7.380 | 129 | 17042 | 0.503 | ppbv | | 99 |
| 49) Bromoform | 9.480 | 173 | 14828 | 0.487 | ppbv | | 98 |
| 50) 4-Methyl-2-Pentanone | 5.758 | 43 | 33674 | 0.559 | ppbv | | 97 |
| 51) 2-Hexanone | 7.438 | 43 | 26154 | 0.523 | ppbv | # | 100 |
| 52) Tetrachloroethene | 8.218 | 164 | 10502 | 0.510 | ppbv | | 94 |
| 53) Toluene | 6.923 | 91 | 32444 | 0.527 | ppbv | | 98 |
| 54) 1,2-Dibromoethane | 7.648 | 107 | 14220 | 0.510 | ppbv | | 99 |
| 56) 1,1,1,2-Tetrachloroethane | 8.920 | 131 | 13959 | 0.523 | ppbv | # | 1 |
| 57) Chlorobenzene | 8.914 | 112 | 24826 | 0.540 | ppbv | # | 91 |
| 58) Ethyl Benzene | 9.348 | 91 | 44862 | 0.521 | ppbv | | 96 |
| 59) m/p-Xylene | 9.548 | 91 | 18711 | 0.272 | ppbv | # | 1 |
| 60) o-Xylene | 9.959 | 91 | 36879 | 0.535 | ppbv | | 98 |
| 61) Styrene | 9.866 | 104 | 17198 | 0.504 | ppbv | | 96 |
| 62) Isopropylbenzene | 10.536 | 105 | 55531 | 0.538 | ppbv | | 99 |
| 63) 1,1,2,2-Tetrachloroethane | 9.959 | 83 | 21989 | 0.525 | ppbv | | 96 |
| 64) n-propylbenzene | 10.985 | 120 | 14030 | 0.528 | ppbv | | 95 |
| 65) tert-Butylbenzene | 11.526 | 119 | 53115 | 0.557 | ppbv | | 100 |
| 66) Benzyl Chloride | 11.613 | 91 | 5263 | 0.520 | ppbv | | 97 |
| 67) sec-Butylbenzene | 11.762 | 105 | 72879 | 0.550 | ppbv | | 98 |
| 69) p-Isopropyltoluene | 11.921 | 119 | 61933 | 0.542 | ppbv | | 100 |
| 70) n-Butylbenzene | 12.277 | 91 | 61507 | 0.527 | ppbv | | 99 |
| 71) 2-Chlorotoluene | 10.895 | 91 | 41637 | 0.520 | ppbv | | 95 |
| 72) 4-Ethyltoluene | 11.121 | 105 | 44473 | 0.518 | ppbv | # | 94 |
| 73) 1,3,5-Trimethylbenzene | 11.199 | 105 | 39190 | 0.523 | ppbv | | 97 |
| 74) 1,2,4-Trimethylbenzene | 11.532 | 105 | 48370 | 0.560 | ppbv | | 97 |
| 75) 1,3-Dichlorobenzene | 11.600 | 146 | 25122 | 0.530 | ppbv | | 100 |
| 76) 1,4-Dichlorobenzene | 11.668 | 146 | 24991 | 0.530 | ppbv | | 97 |
| 77) 1,2-Dichlorobenzene | 11.943 | 146 | 24548 | 0.532 | ppbv | | 96 |
| 78) Hexachloro-1,3-Butadiene | 13.879 | 225 | 25636 | 0.546 | ppbv | | 99 |
| 79) Naphthalene | 13.510 | 128 | 47990 | 0.508 | ppbv | | 95 |
| 80) Naphthalene,2-methyl- | 14.458 | 142 | 17486 | 0.380 | ppbv | | 98 |
| 81) 1,2,4-Trichlorobenzene | 13.436 | 180 | 19924 | 0.457 | ppbv | | 97 |

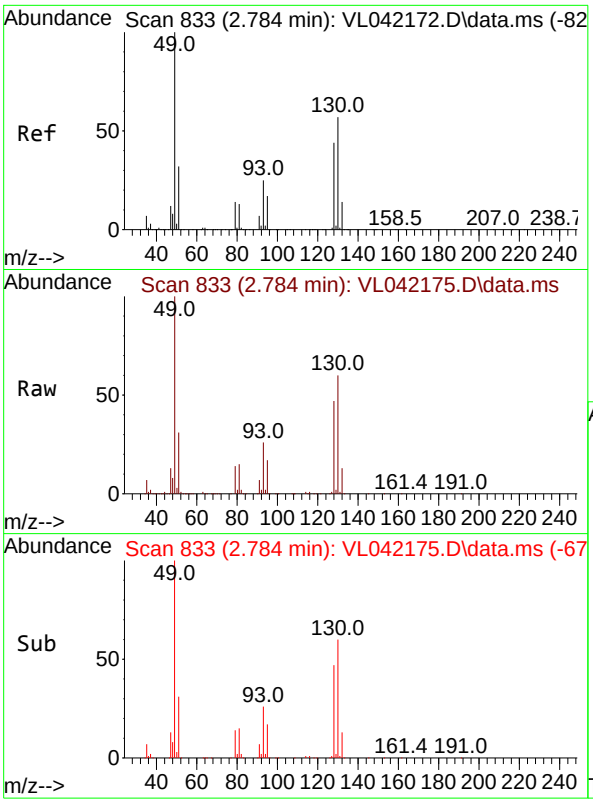
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042175.D
Acq On : 27 Mar 2025 10:01
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Quant Time: Mar 28 01:34:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration



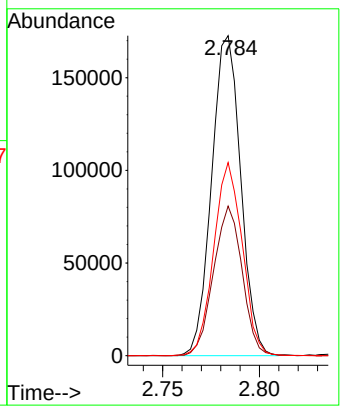


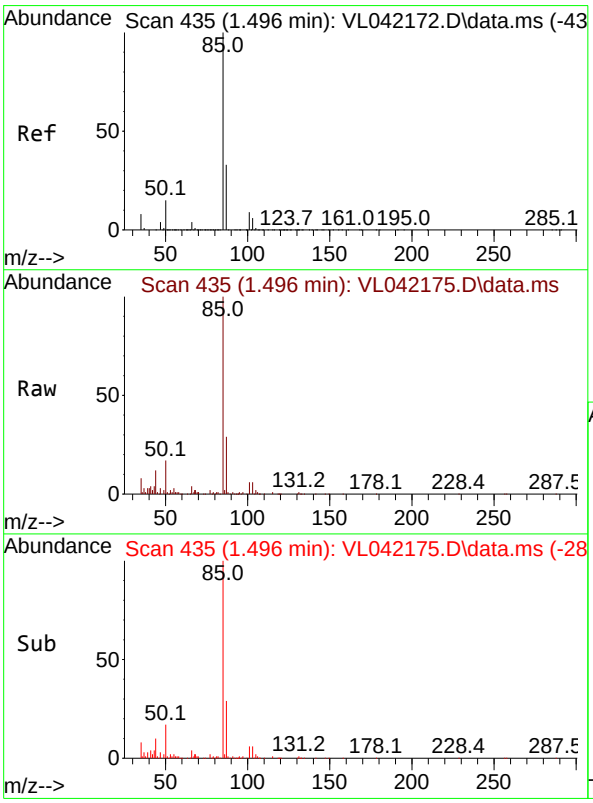

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion: 49 Resp: 180502

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 46.1 | 22.9 | 68.5 |
| 130 | 59.2 | 28.8 | 86.4 |

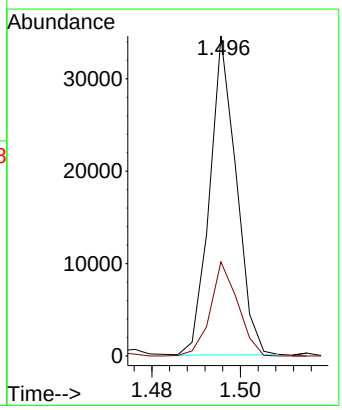


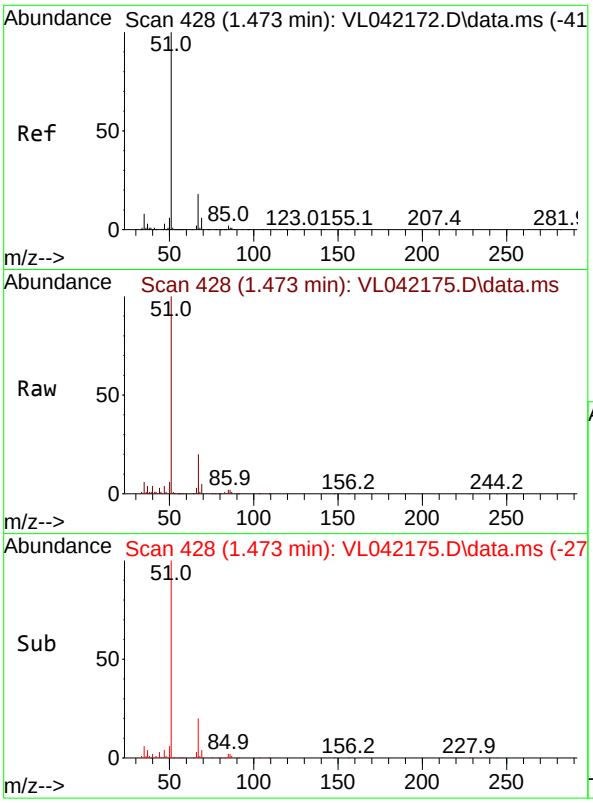




#2
Dichlorodifluoromethane
Concen: 0.542 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 85 Resp: 14455

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 29.5 | 26.1 | 39.1 |



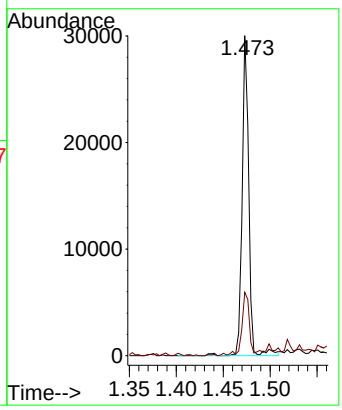


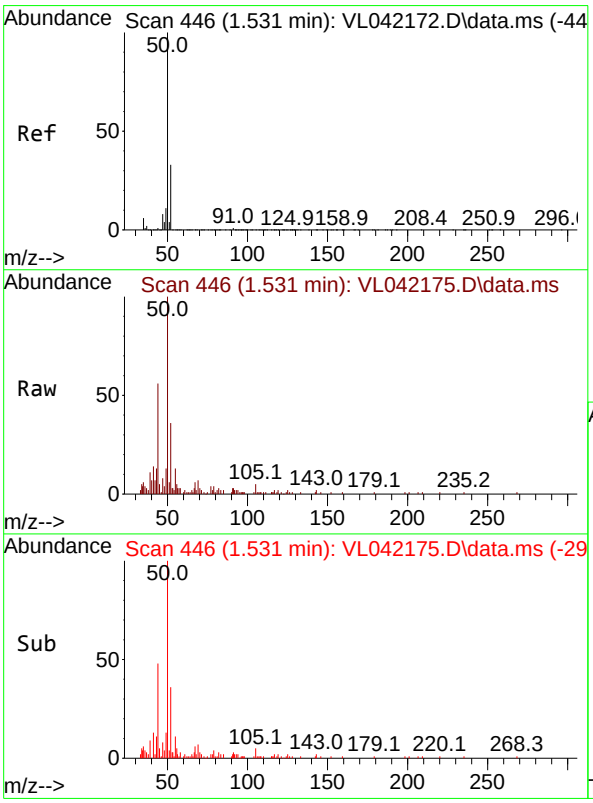

#3
Chlorodifluoromethane
Concen: 0.538 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion: 51 Resp: 14637

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 23.6 | 15.0 | 22.6# |

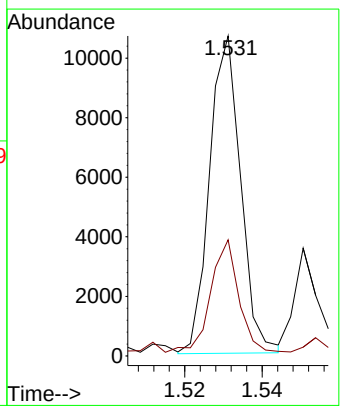


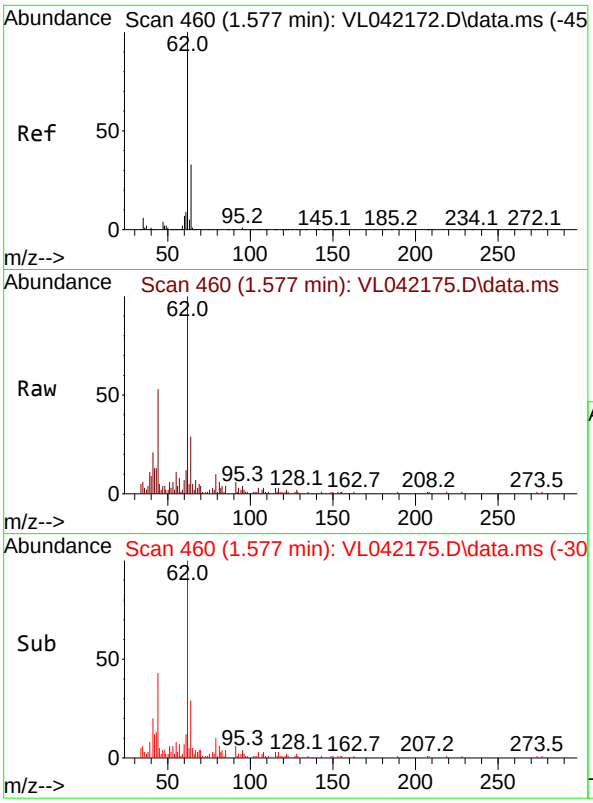




#4
Chloromethane
Concen: 0.547 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 50 Resp: 5956

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 36.1 | 26.1 | 39.1 |



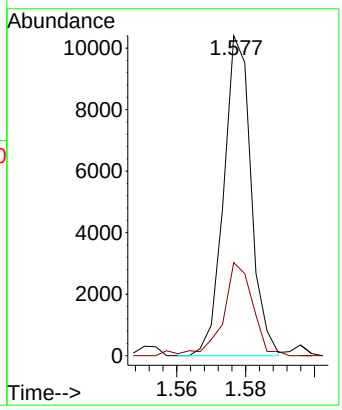


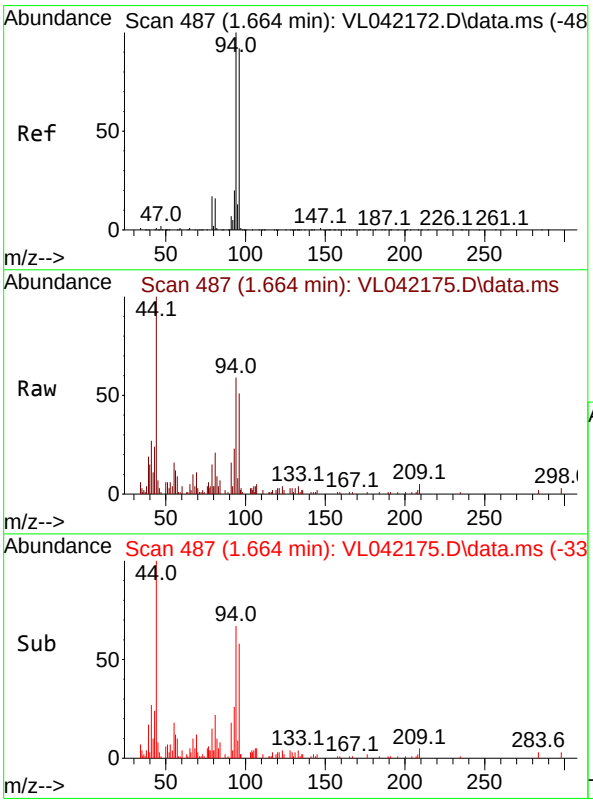

#5
Vinyl Chloride
Concen: 0.516 ppbv
RT: 1.577 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion: 62 Resp: 5732

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 28.5 | 26.6 | 40.0 |

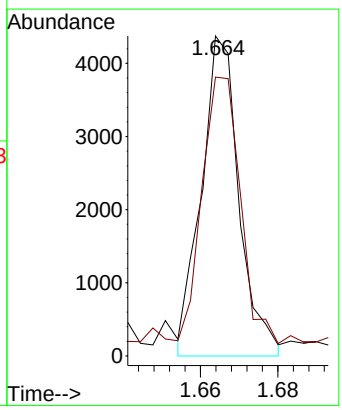


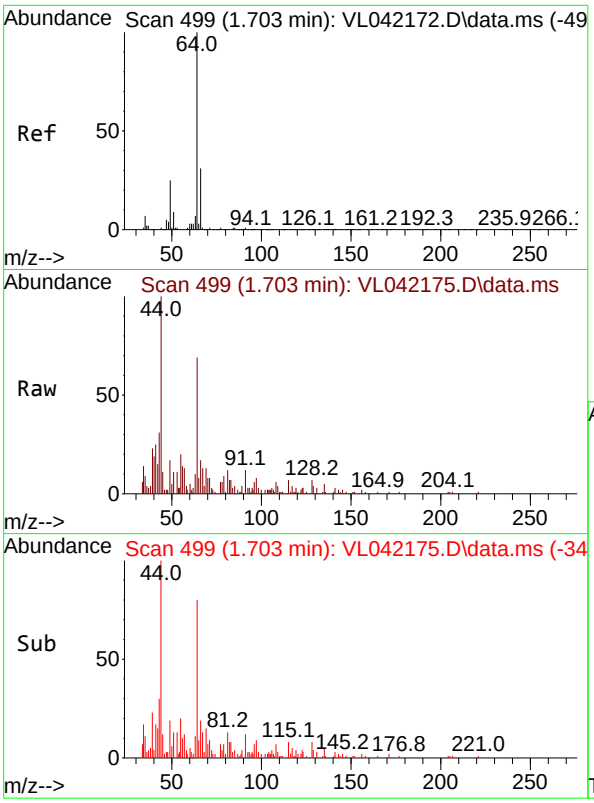




#6
Bromomethane
Concen: 0.597 ppbv
RT: 1.664 min Scan# 487
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 94 Resp: 2949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 86.2 | 73.1 | 109.7 |



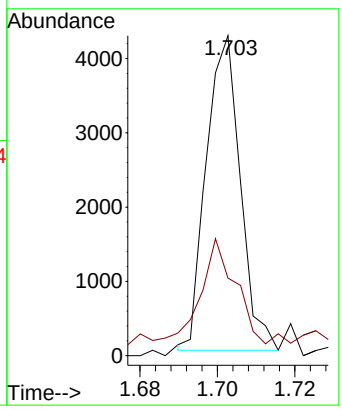


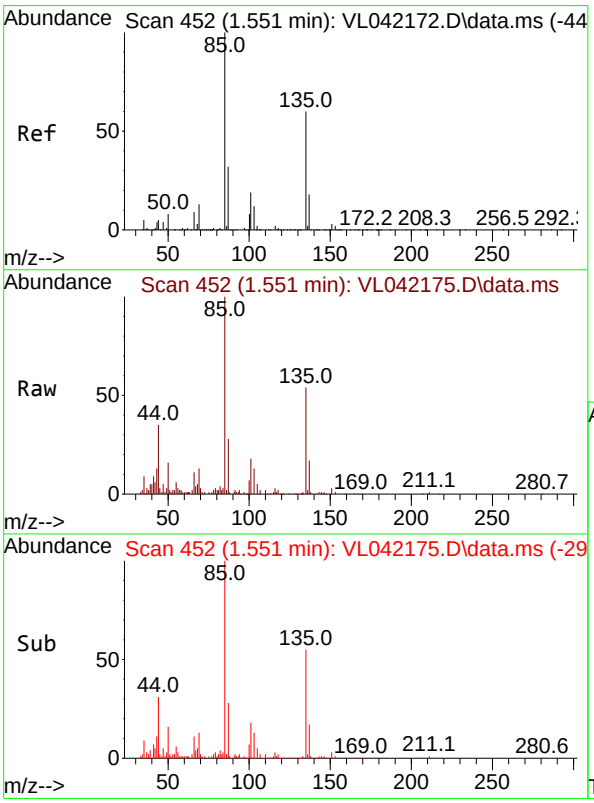

#7
Chloroethane
Concen: 0.591 ppbv
RT: 1.703 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion: 64 Resp: 2582

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 24.2 | 25.2 | 37.8# |

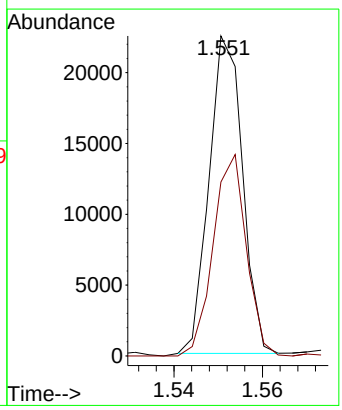


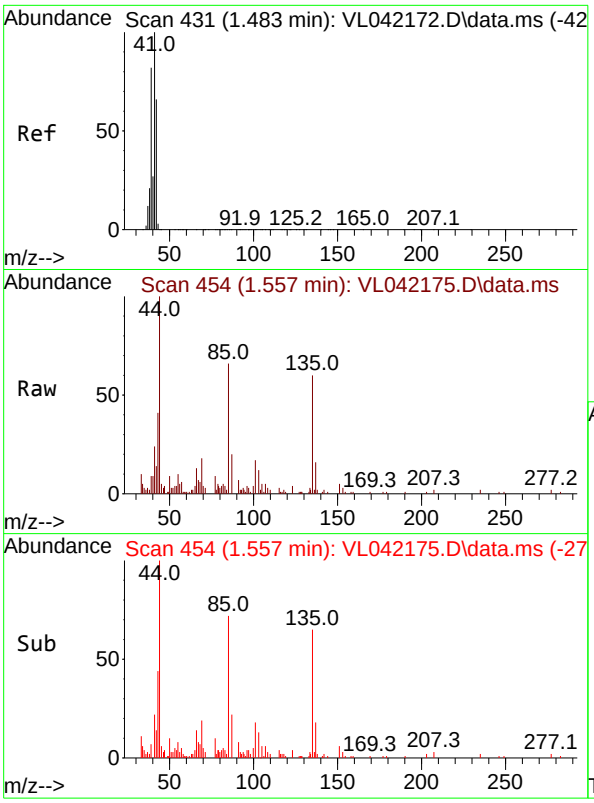




#8
Dichlorotetrafluoroethane
Concen: 0.519 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 85 Resp: 11783

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 63.7 | 52.4 | 78.6 |



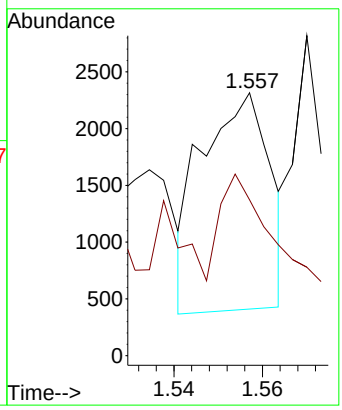


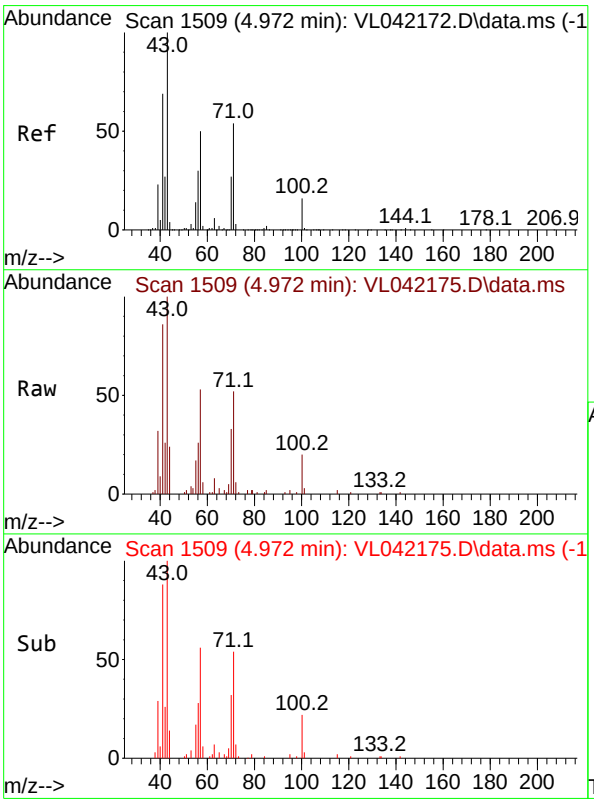

#9
Propene
Concen: 0.167 ppbv
RT: 1.557 min Scan# 4
Delta R.T. 0.074 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion: 41 Resp: 2054

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 62.9 | 55.4 | 83.2 |

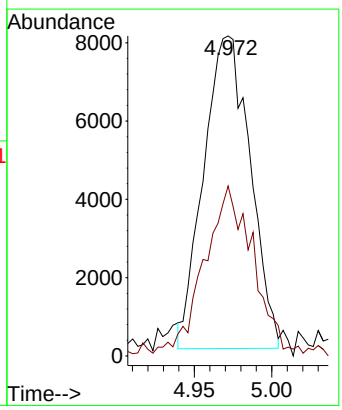


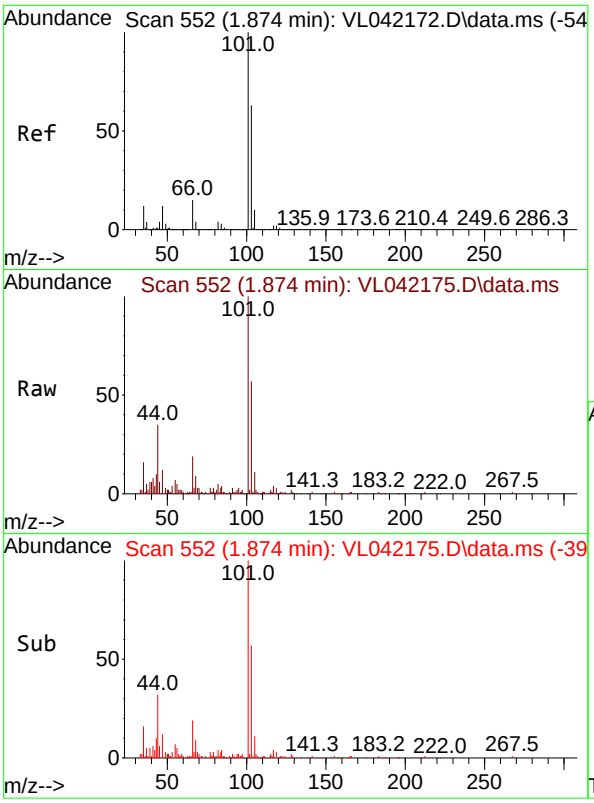




#10
Heptane
Concen: 0.502 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 43 Resp: 16673

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 57.0 | 39.4 | 59.2 |



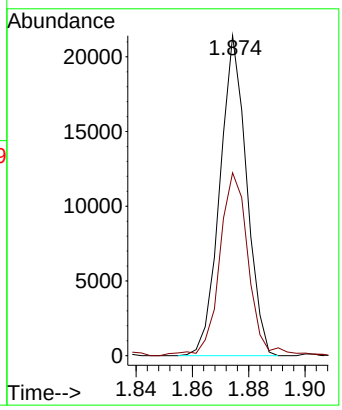


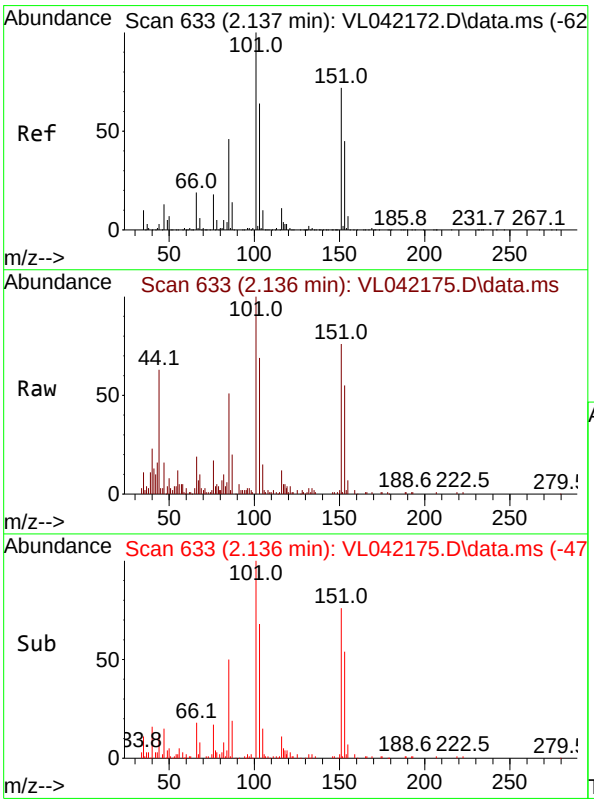

#11
Trichlorofluoromethane
Concen: 0.544 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion:101 Resp: 14099

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 56.3 | 50.2 | 75.2 |

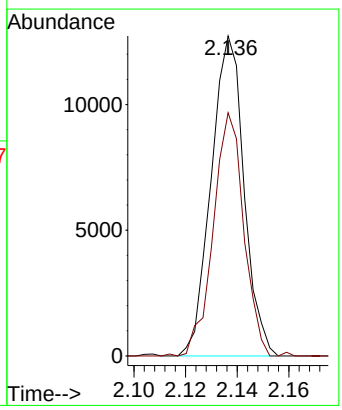


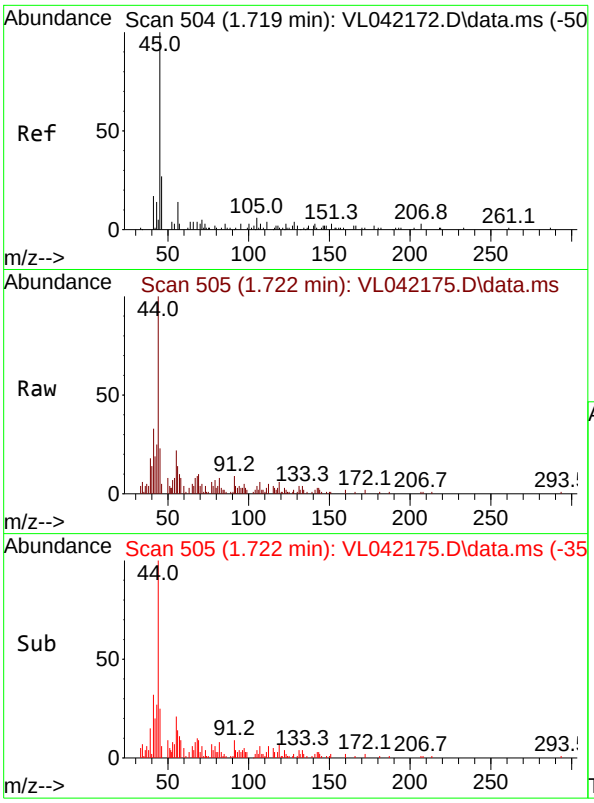




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.528 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:101 Resp: 11252

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 70.6 | 57.1 | 85.7 |



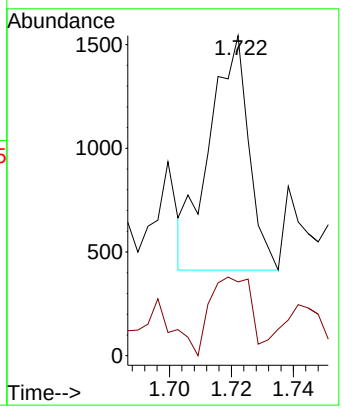


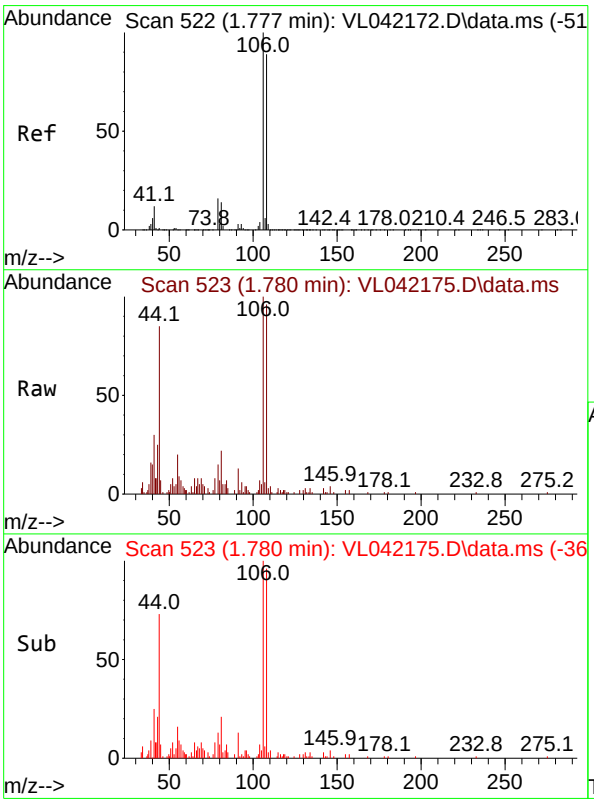

#13
Ethanol
Concen: 1.038 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion: 45 Resp: 997

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 94.5 | 20.2 | 80.8# |

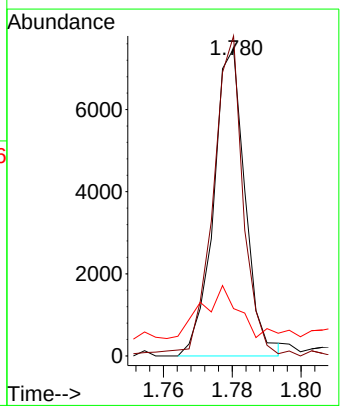


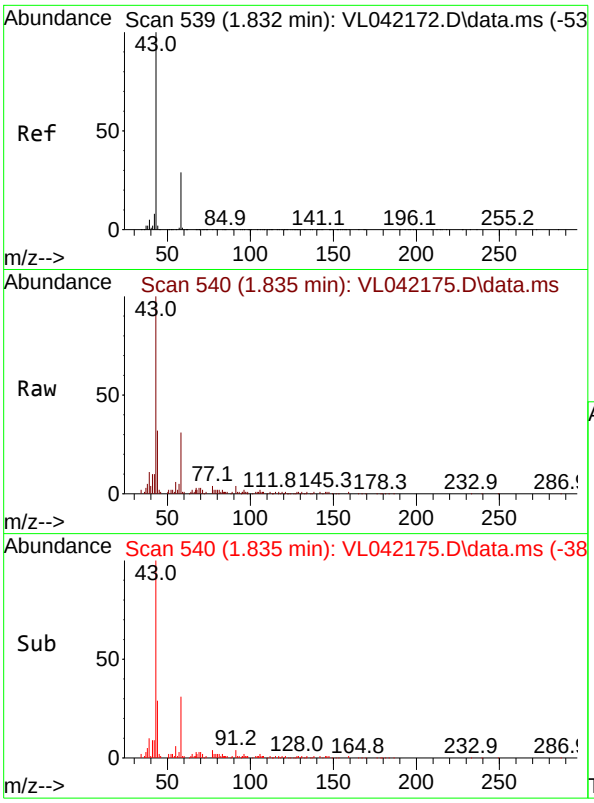




#14
Bromoethene
Concen: 0.584 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:108 Resp: 4770

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 106 | 101.3 | 86.8 | 130.2 |
| 79 | 42.6 | 15.0 | 22.6# |



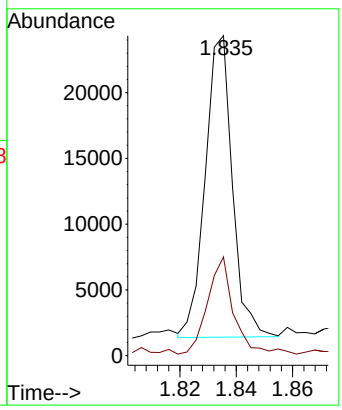


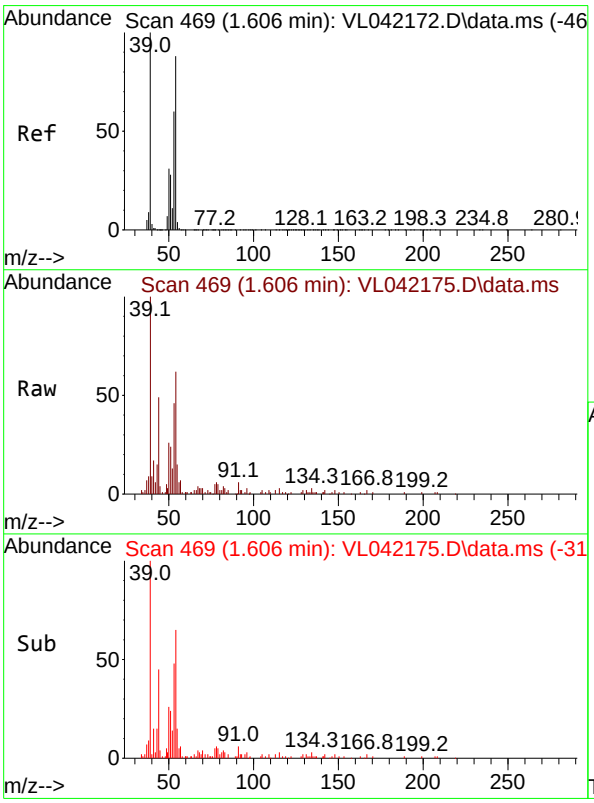

#15
Acetone
Concen: 0.607 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion: 43 Resp: 15331

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 37.1 | 23.2 | 34.8# |

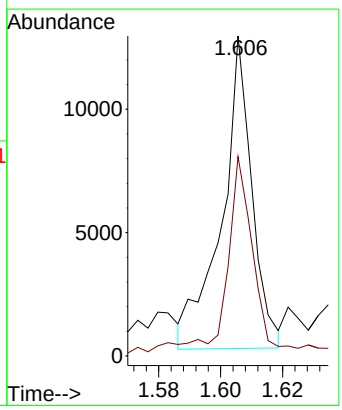


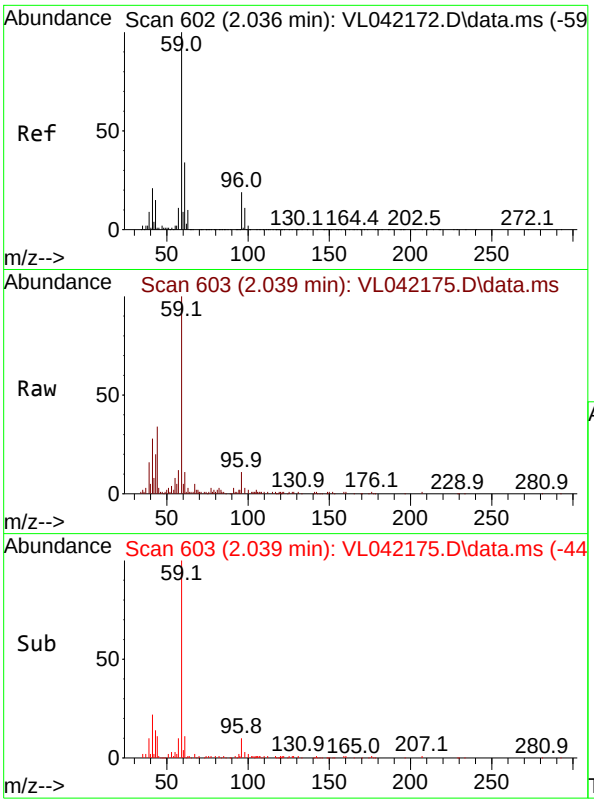




#16
1,3-Butadiene
Concen: 0.757 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 39 Resp: 8594

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 60.7 | 60.7 | 91.1 |



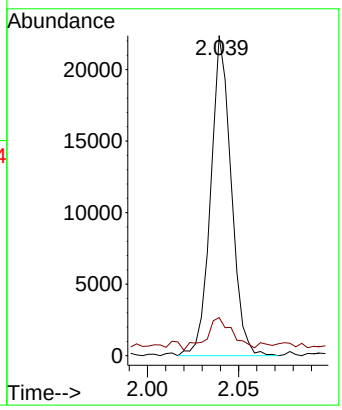


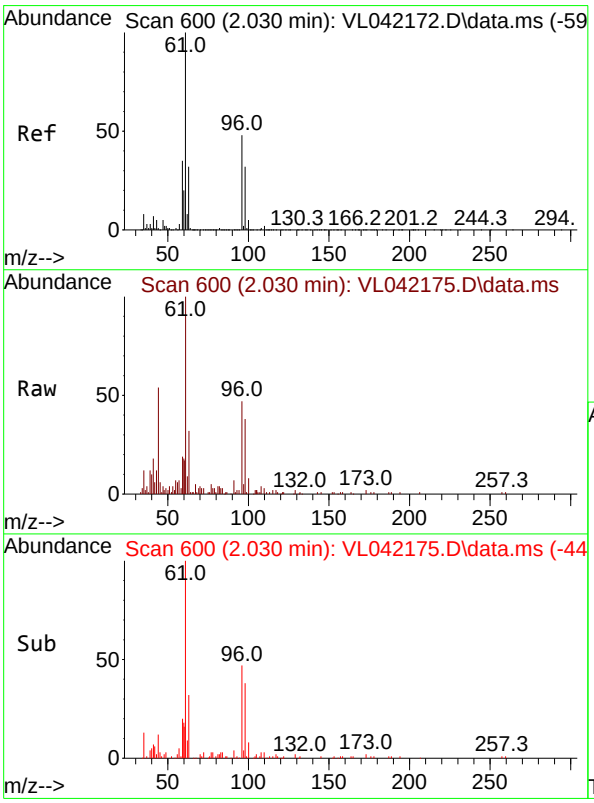

#17
tert-Butyl alcohol
Concen: 0.556 ppbv
RT: 2.039 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion: 59 Resp: 17467

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 12.1 | 8.9 | 13.3 |

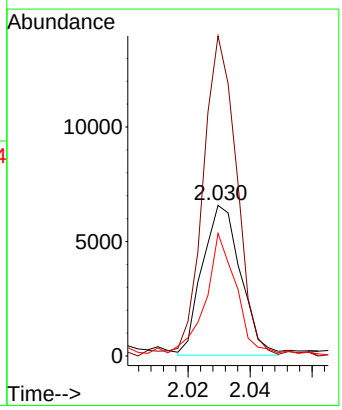


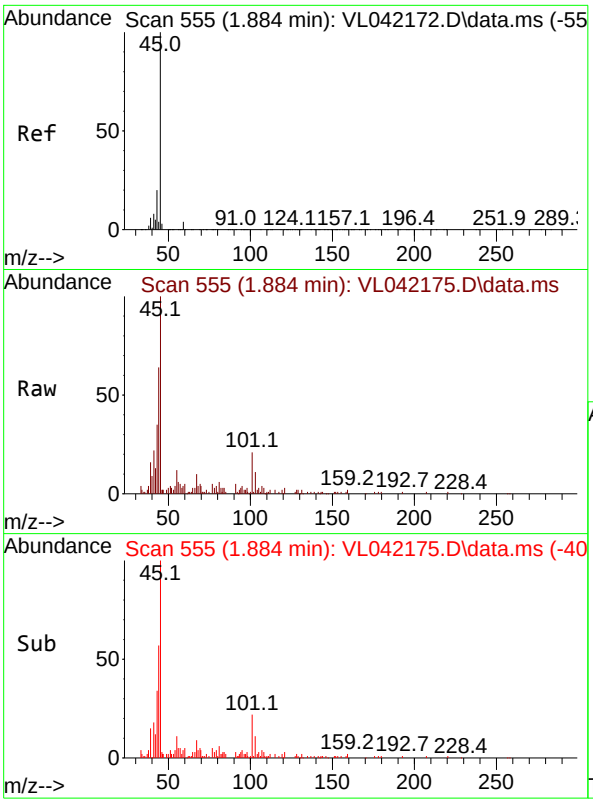




#18
1,1-Dichloroethene
Concen: 0.565 ppbv
RT: 2.030 min Scan# 600
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 96 Resp: 5634

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 216.6 | 167.6 | 251.4 |
| 98 | 81.2 | 53.5 | 80.3# |



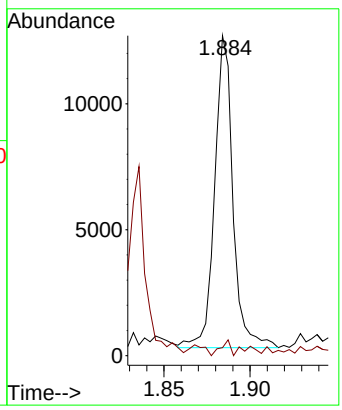


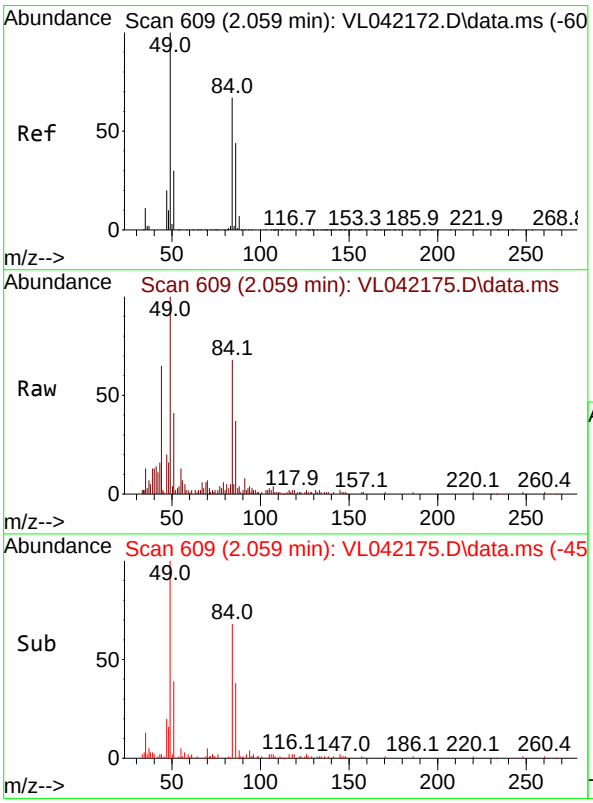

#19
Isopropyl Alcohol
Concen: 0.644 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion: 45 Resp: 9171

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 5.5 | 36.9 | 55.3# |

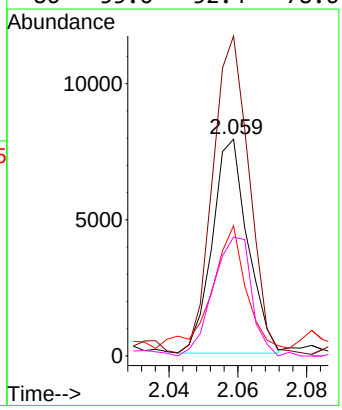


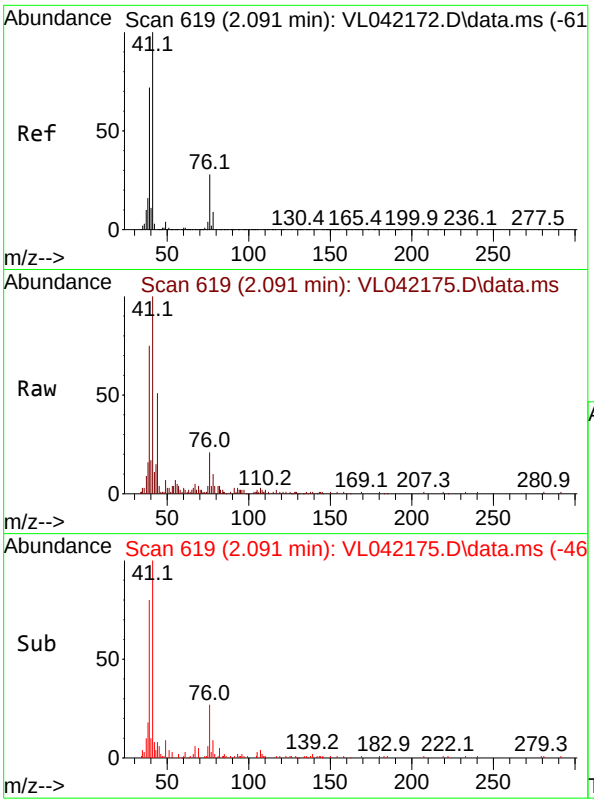




#20
Methylene Chloride
Concen: 0.599 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 84 Resp: 5634

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 148.1 | 120.2 | 180.4 |
| 51 | 56.1 | 37.4 | 56.0# |
| 86 | 55.6 | 52.4 | 78.6 |



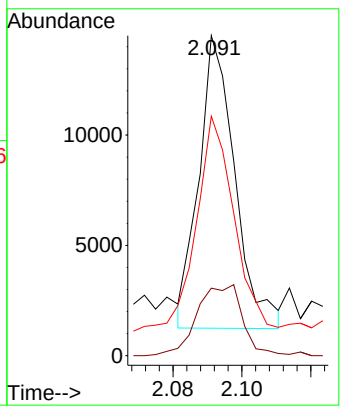


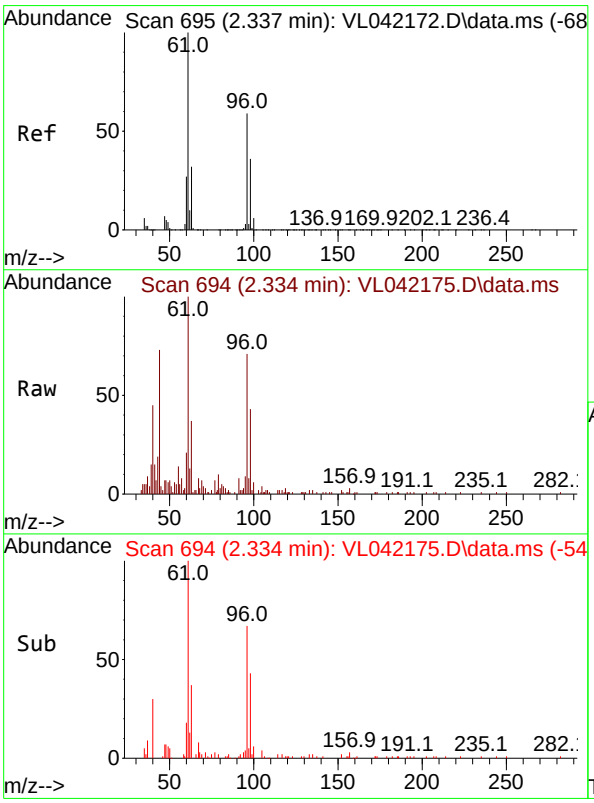

#21
Allyl Chloride
Concen: 0.541 ppbv
RT: 2.091 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion: 41 Resp: 9632

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 30.9 | 24.1 | 36.1 |
| 39 | 88.9 | 61.1 | 91.7 |

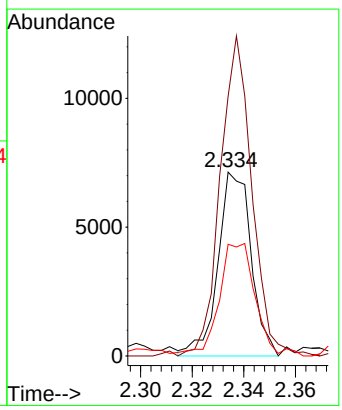


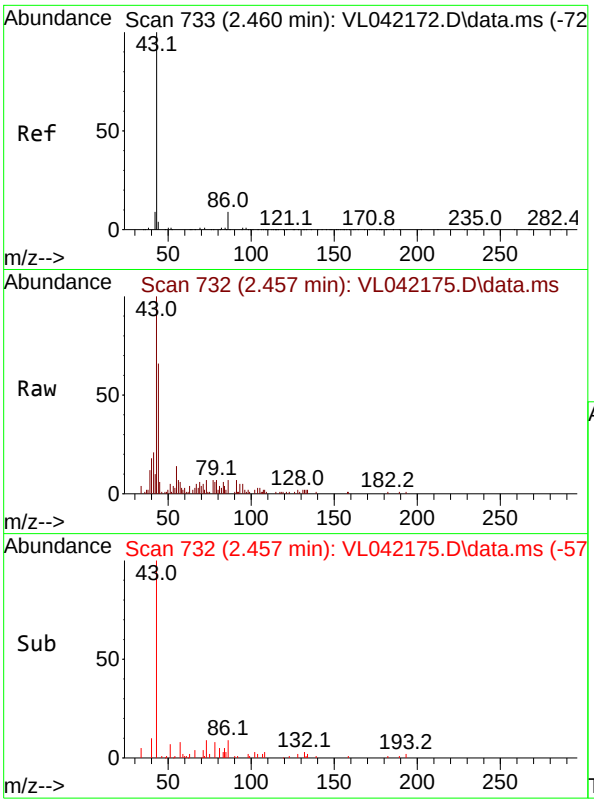




#22
trans-1,2-Dichloroethene
Concen: 0.546 ppbv
RT: 2.334 min Scan# 694
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 96 Resp: 6353

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 141.3 | 136.6 | 204.8 |
| 98 | 59.4 | 49.4 | 74.2 |



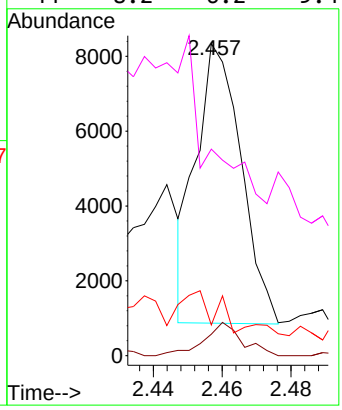


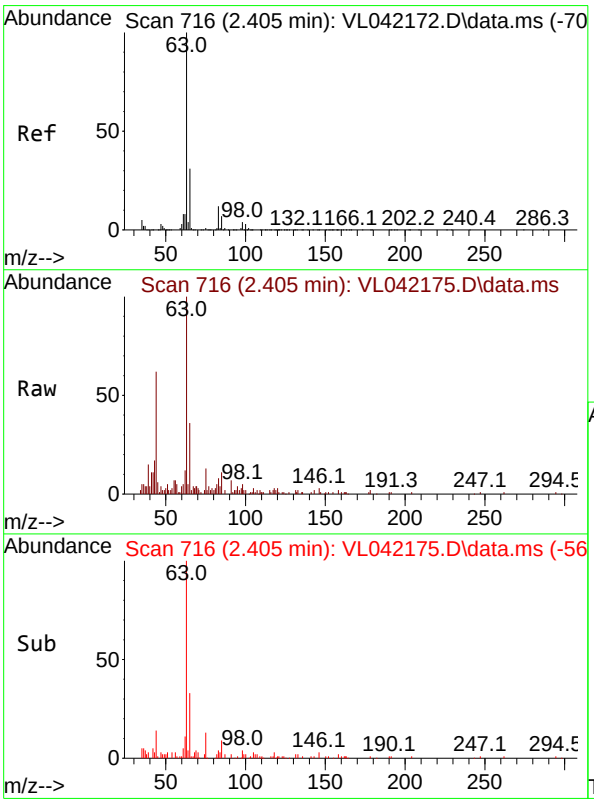

#23
Vinyl Acetate
Concen: 0.649 ppbv
RT: 2.457 min Scan# 7
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion: 43 Resp: 6809

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 7.7 | 5.5 | 8.3 |
| 42 | 3.2 | 8.6 | 13.0# |
| 44 | 8.2 | 6.2 | 9.4 |

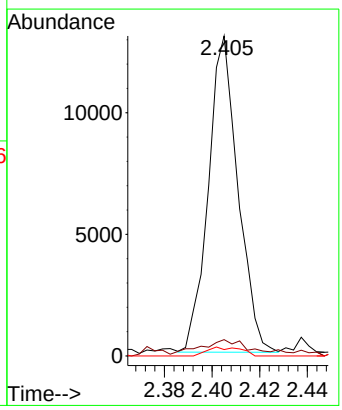


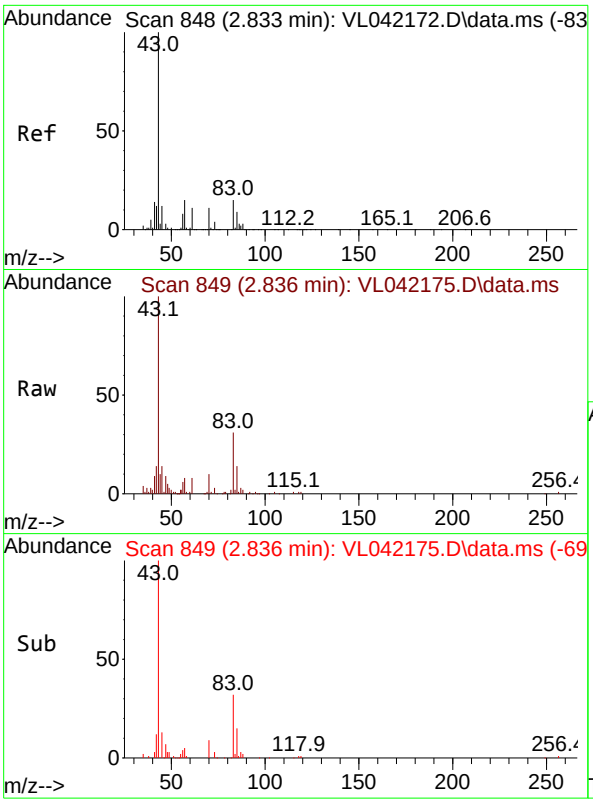




#24
1,1-Dichloroethane
Concen: 0.527 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 63 Resp: 11258

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 3.7 | 2.3 | 6.8 |
| 100 | 2.0 | 1.6 | 4.7 |



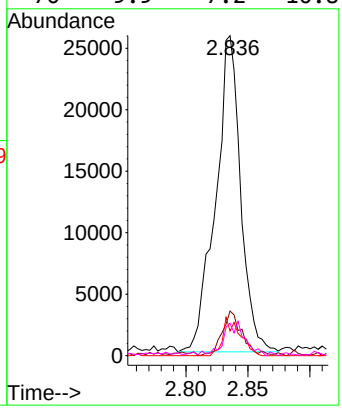


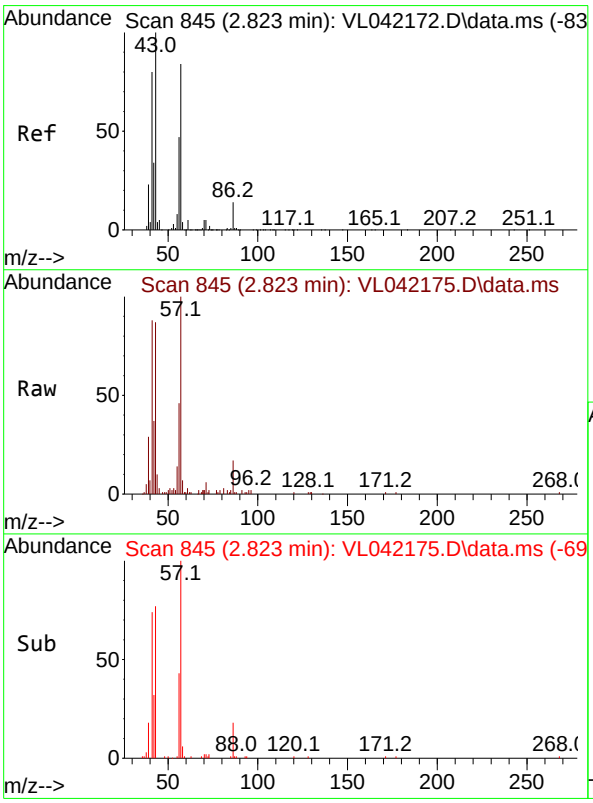

#25
Ethyl Acetate
Concen: 0.553 ppbv
RT: 2.836 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion: 43 Resp: 36258

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 11.2 | 8.2 | 12.2 |
| 61 | 8.3 | 7.3 | 10.9 |
| 70 | 9.9 | 7.2 | 10.8 |

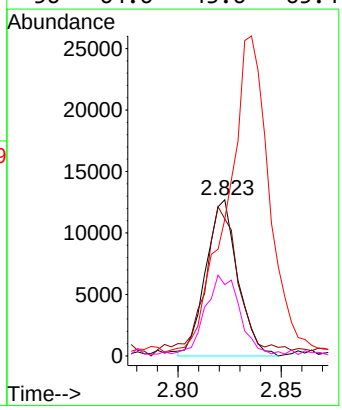


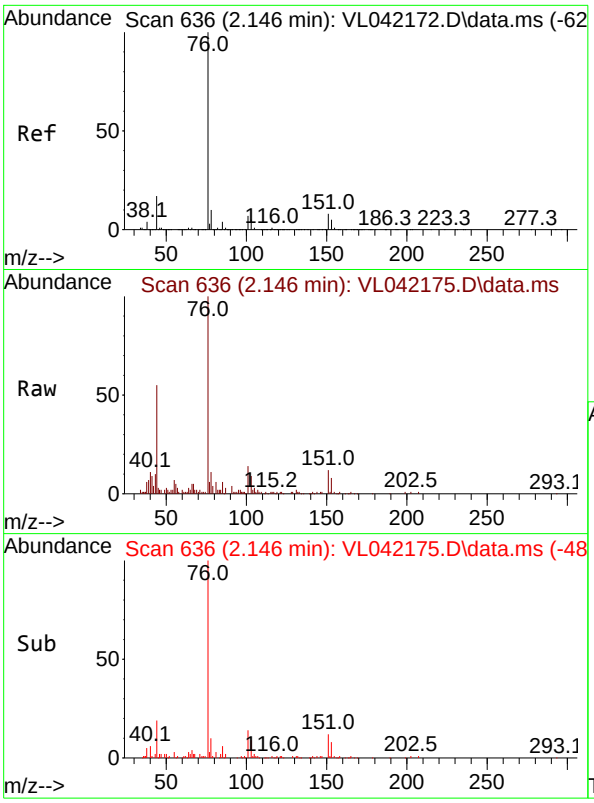




#26
Hexane
Concen: 0.538 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 57 Resp: 13605

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 92.1 | 76.6 | 114.8 |
| 43 | 273.4 | 207.8 | 311.8 |
| 56 | 64.6 | 43.6 | 65.4 |



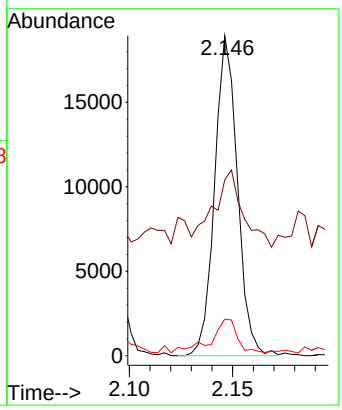


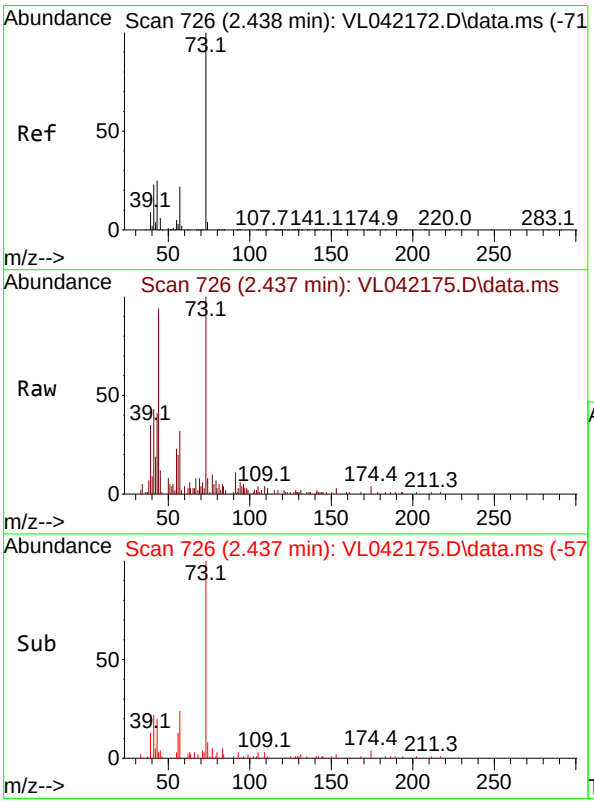

#27
Carbon Disulfide
Concen: 0.535 ppbv
RT: 2.146 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion: 76 Resp: 14510

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 115.5 | 14.7 | 22.1# |
| 78 | 14.9 | 9.3 | 13.9# |

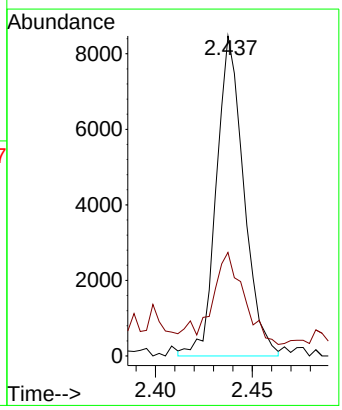


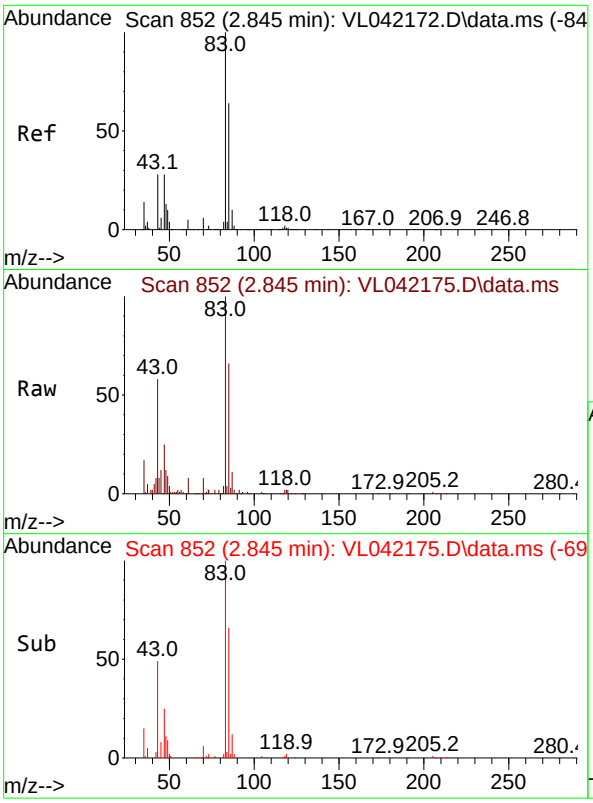




#28
Methyl tert-Butyl Ether
Concen: 0.527 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 73 Resp: 8310

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 31.1 | 20.5 | 30.7# |



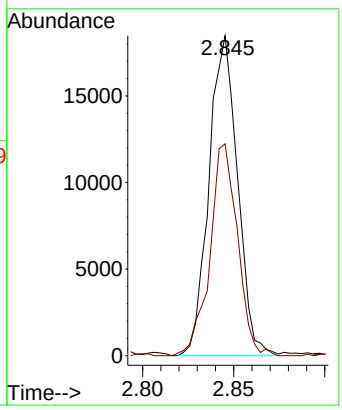


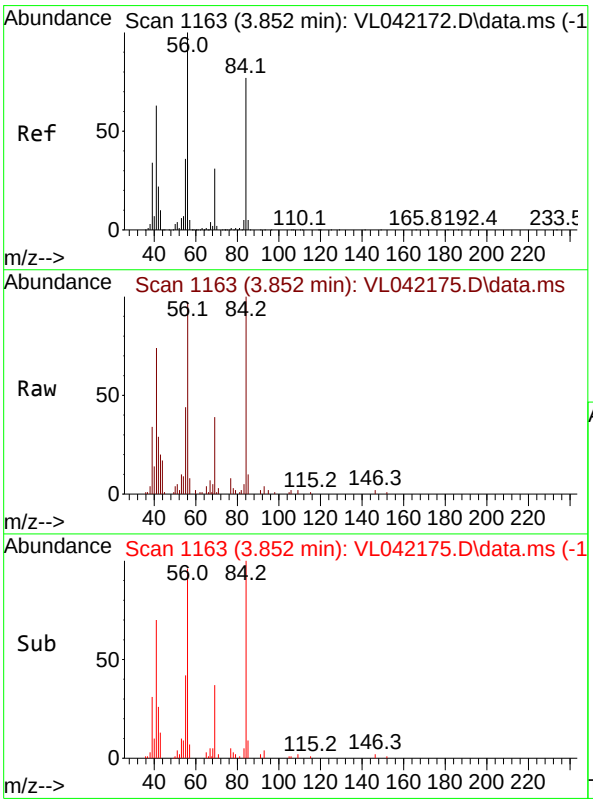

#29
Chloroform
Concen: 0.544 ppbv
RT: 2.845 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion: 83 Resp: 20149

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 66.2 | 51.4 | 77.2 |

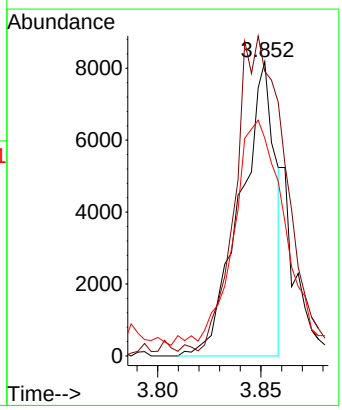


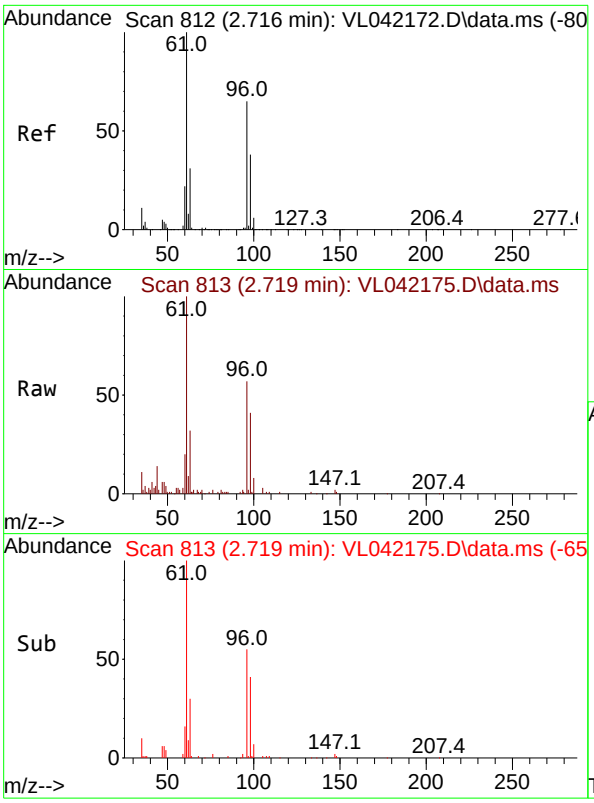




#30
Cyclohexane
Concen: 0.438 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 84 Resp: 9635

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 158.1 | 102.8 | 154.2# |
| 41 | 117.1 | 66.5 | 99.7# |



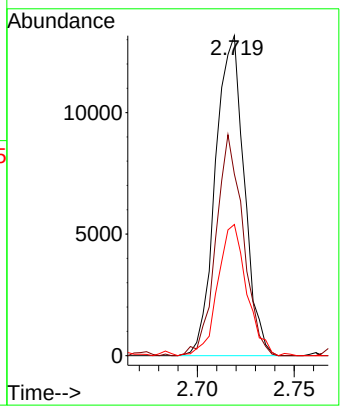


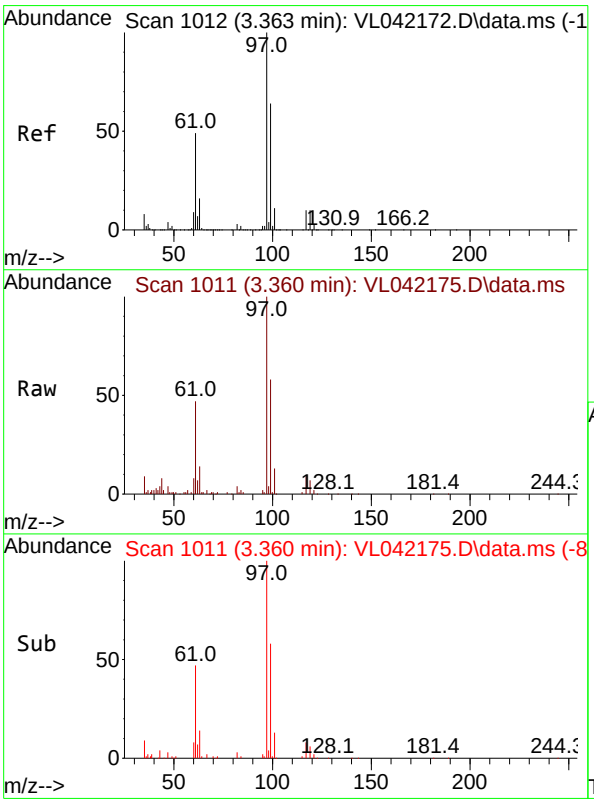

#31
cis-1,2-Dichloroethene
Concen: 0.529 ppbv
RT: 2.719 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion: 61 Resp: 13601

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 56.8 | 51.8 | 77.8 |
| 98 | 41.0 | 30.6 | 46.0 |

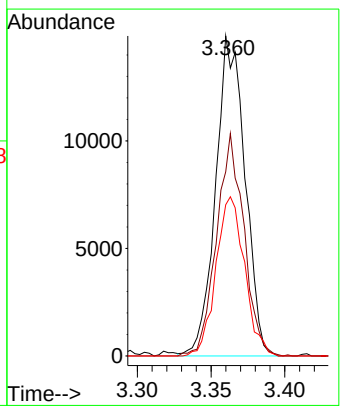


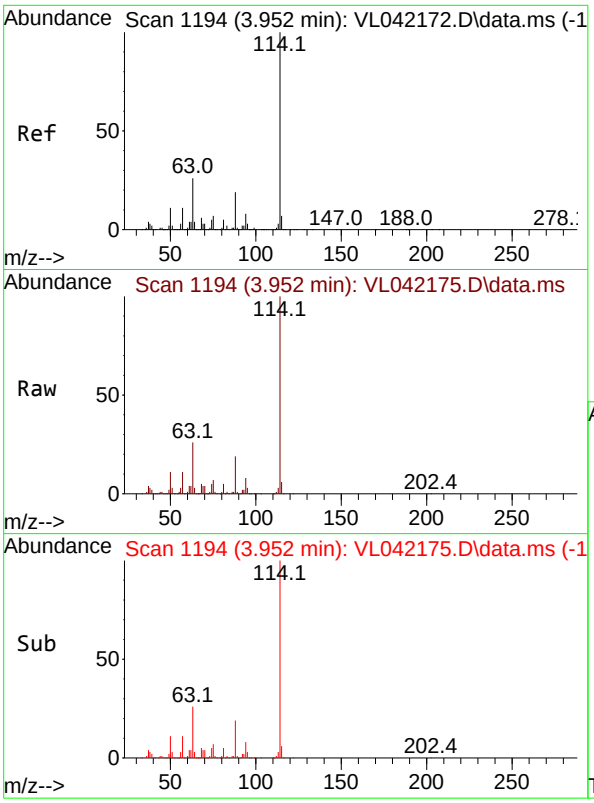




#32
1,1,1-Trichloroethane
Concen: 0.485 ppbv
RT: 3.360 min Scan# 1011
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 97 Resp: 20567

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.8 | 51.5 | 77.3 |
| 61 | 48.6 | 38.7 | 58.1 |



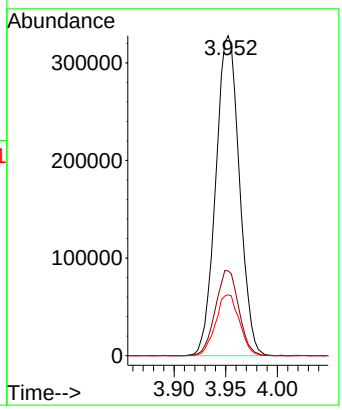


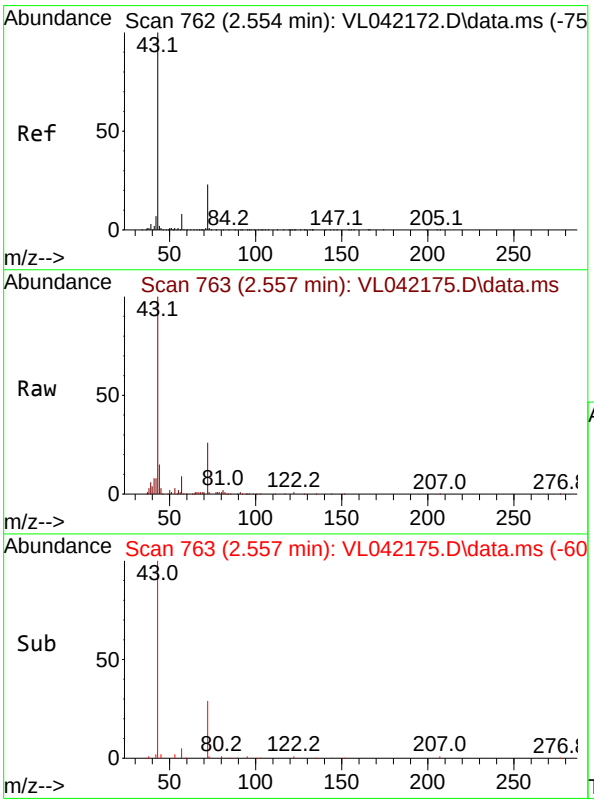

#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion:114 Resp: 523832

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 26.4 | 20.7 | 31.1 |
| 88 | 19.1 | 15.0 | 22.4 |

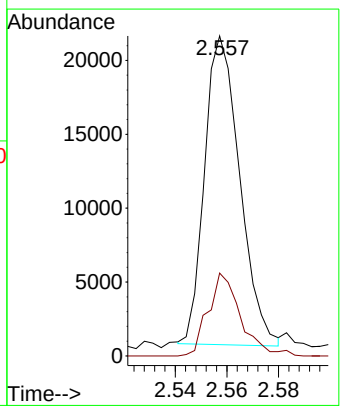


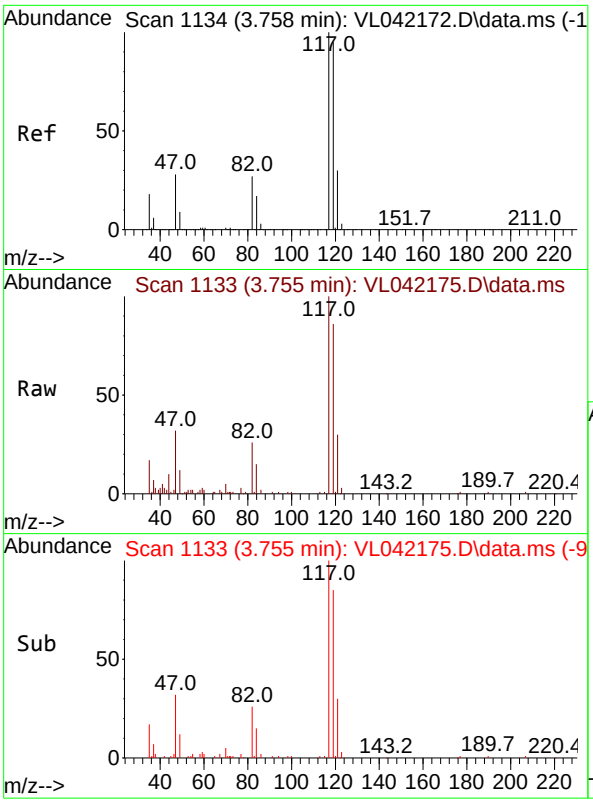




#34
2-Butanone
Concen: 0.520 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 43 Resp: 19739

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 24.8 | 18.2 | 27.2 |



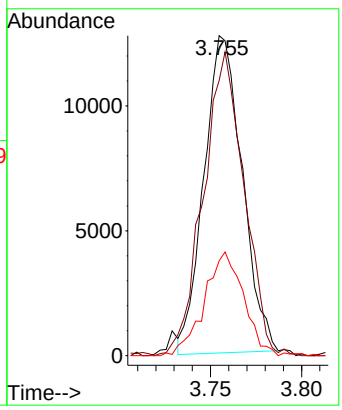


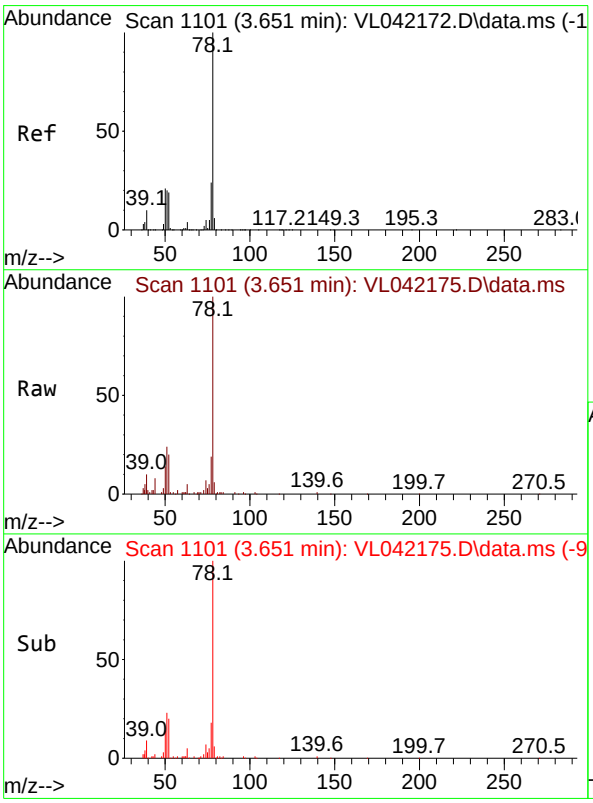

#35
Carbon Tetrachloride
Concen: 0.460 ppbv
RT: 3.755 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion:117 Resp: 18558

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 86.4 | 76.2 | 114.2 |
| 121 | 30.1 | 24.2 | 36.4 |

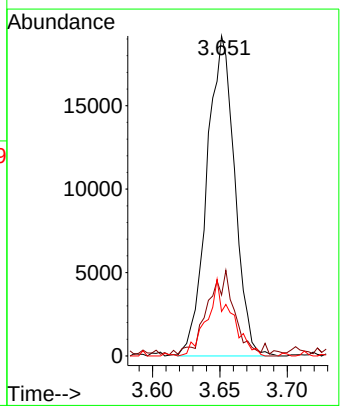


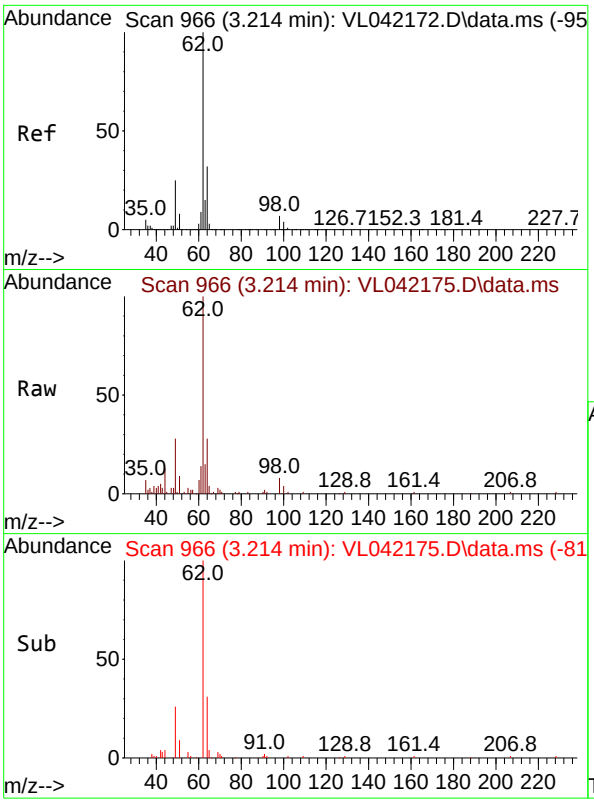




#36
Benzene
Concen: 0.529 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 78 Resp: 27488

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 18.5 | 19.1 | 28.7# |
| 50 | 13.9 | 16.6 | 24.8# |



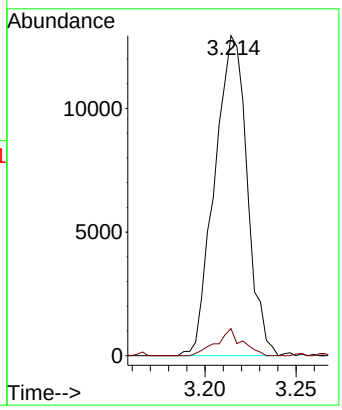


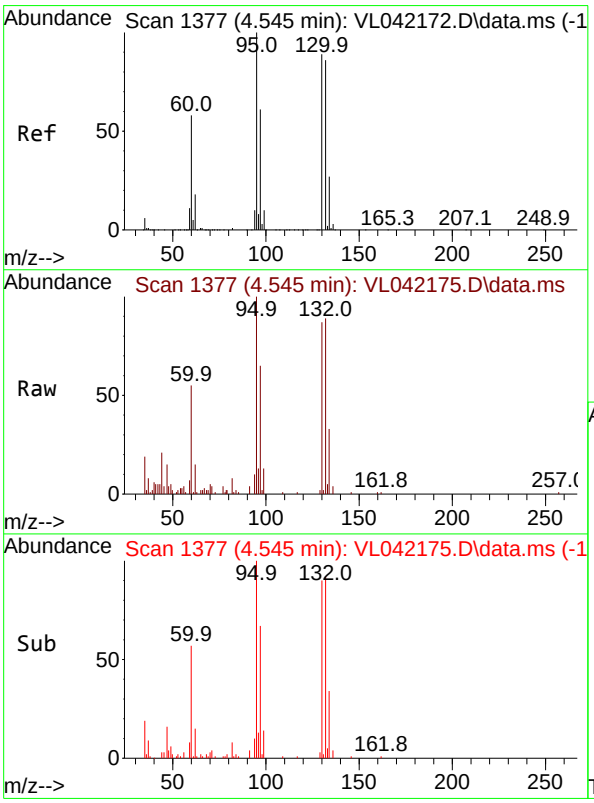

#37
1,2-Dichloroethane
Concen: 0.540 ppbv
RT: 3.214 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion: 62 Resp: 16062

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 7.0 | 5.4 | 8.2 |

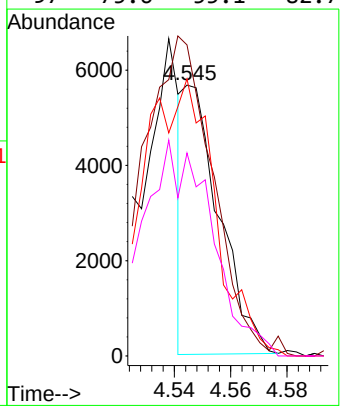


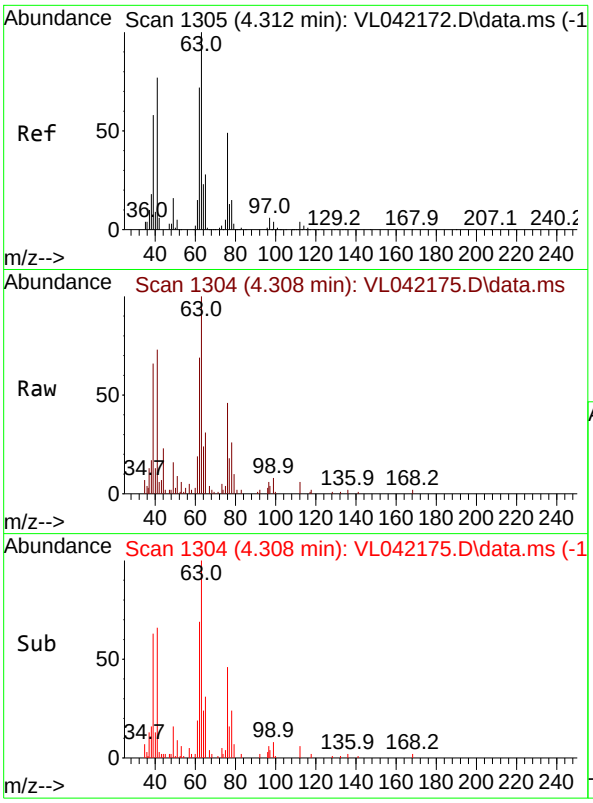




#38
Trichloroethene
Concen: 0.230 ppbv
RT: 4.545 min Scan# 1377
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:130 Resp: 4992

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 108.5 | 89.8 | 134.8 |
| 132 | 100.9 | 77.4 | 116.2 |
| 97 | 75.6 | 55.1 | 82.7 |



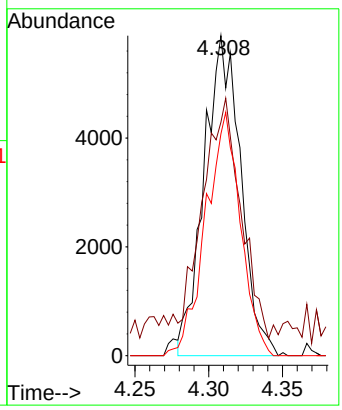


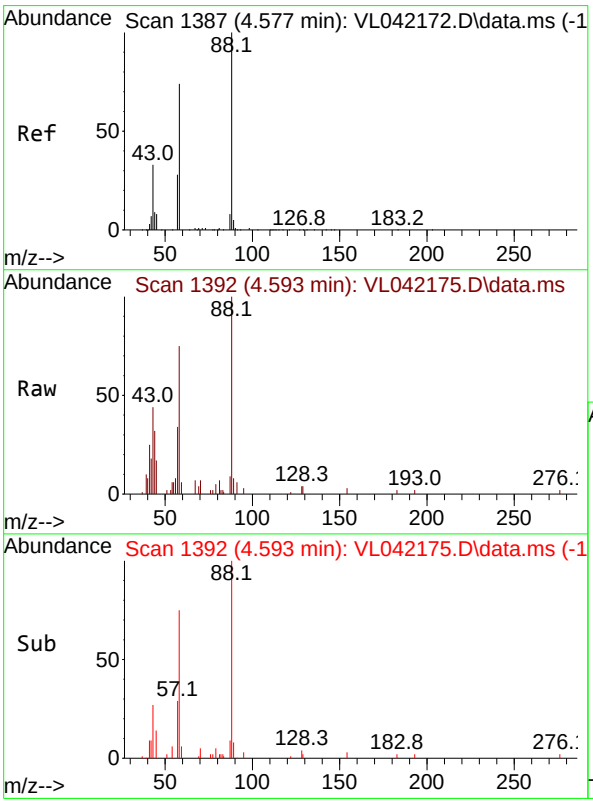

#39
1,2-Dichloropropane
Concen: 0.535 ppbv
RT: 4.308 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion: 63 Resp: 10123

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 66.4 | 61.7 | 92.5 |
| 62 | 69.3 | 57.6 | 86.4 |

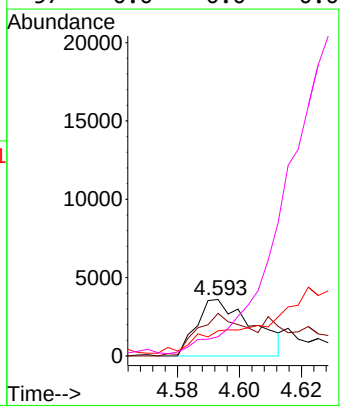


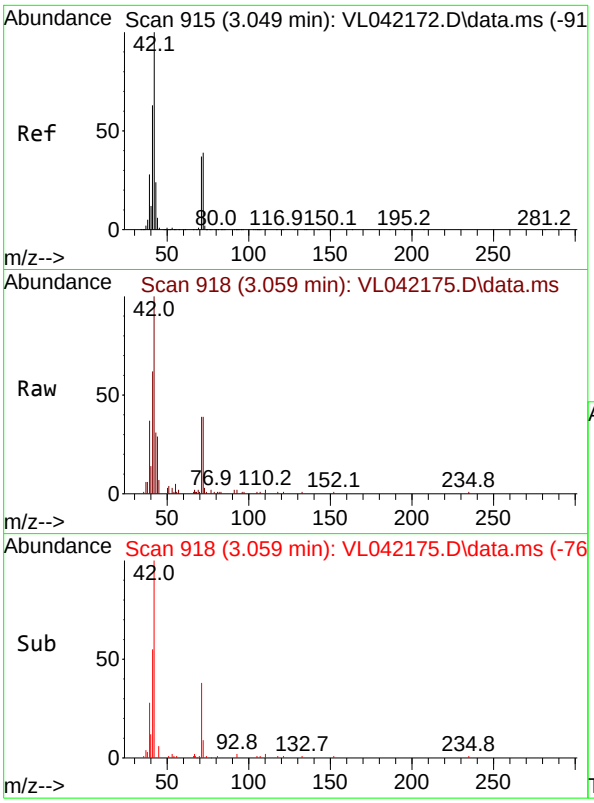




#40
1,4-Dioxane
Concen: 0.457 ppbv
RT: 4.593 min Scan# 1392
Delta R.T. 0.016 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 88 Resp: 4487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 151.6 | 62.7 | 94.1# |
| 43 | 0.0 | 23.0 | 34.4# |
| 57 | 0.0 | 0.0 | 0.0 |



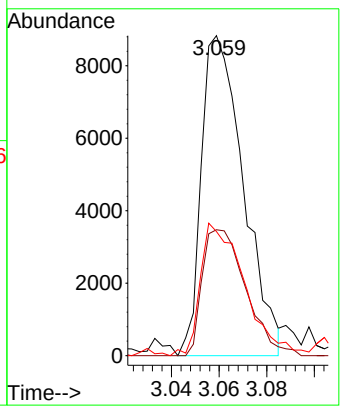


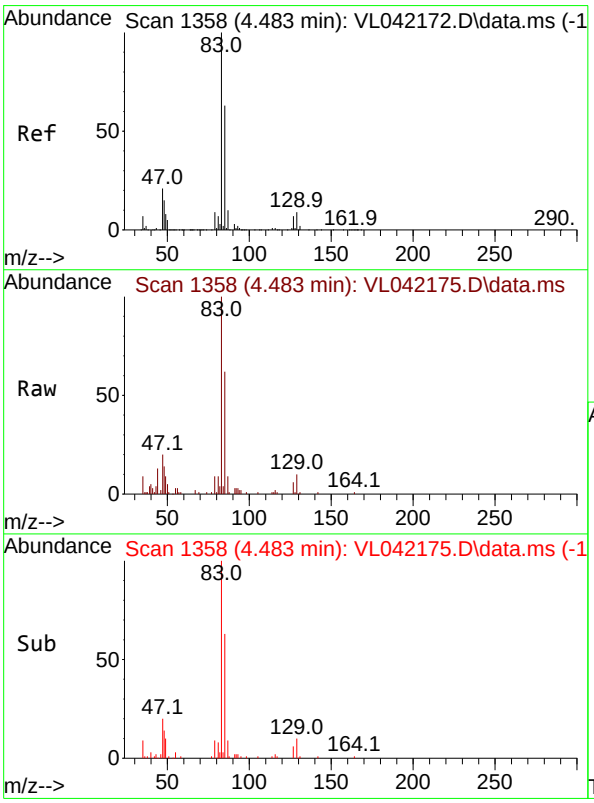

#41
Tetrahydrofuran
Concen: 0.502 ppbv
RT: 3.059 min Scan# 91
Delta R.T. 0.010 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion: 42 Resp: 10856

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 40.7 | 31.4 | 47.0 |
| 71 | 43.1 | 30.2 | 45.4 |

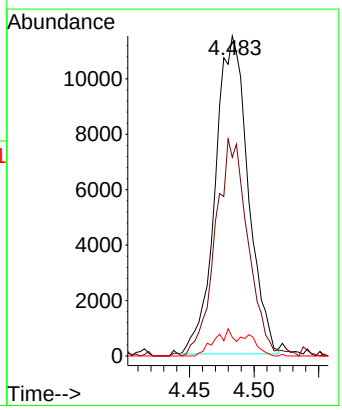


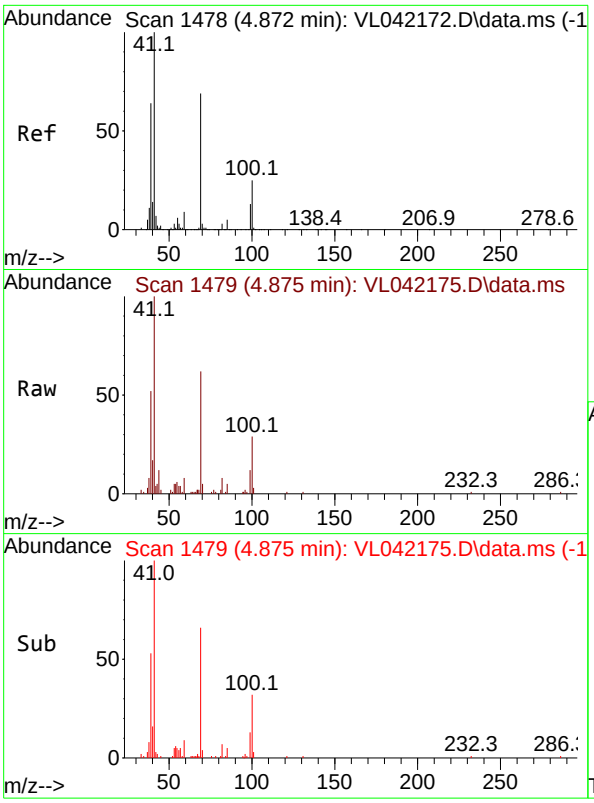




#42
Bromodichloromethane
Concen: 0.497 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 83 Resp: 20374

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 61.6 | 50.5 | 75.7 |
| 127 | 5.9 | 5.9 | 8.9# |



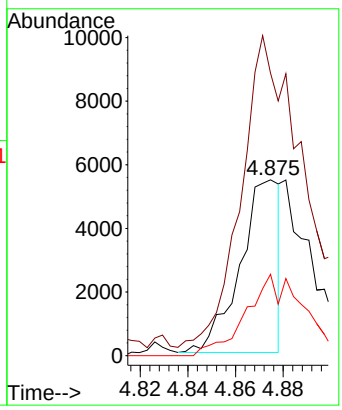


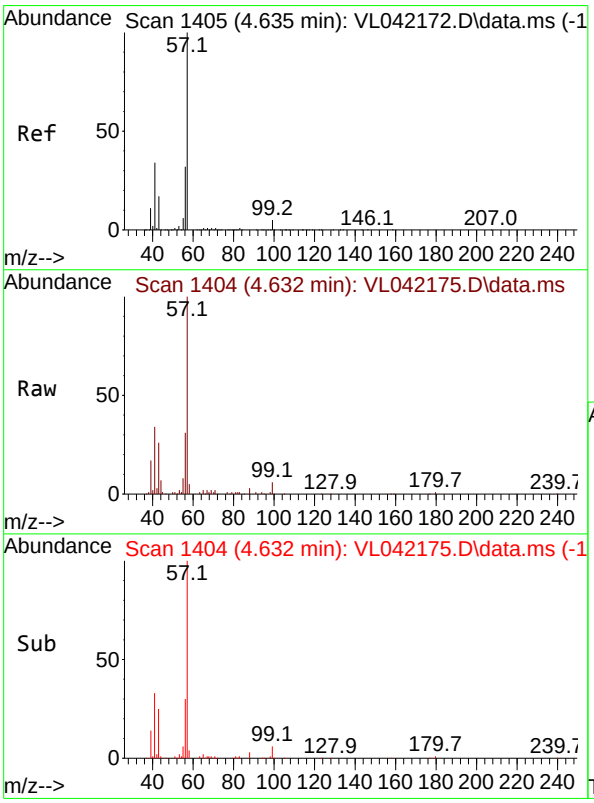

#43
Methyl Methacrylate
Concen: 0.284 ppbv
RT: 4.875 min Scan# 14
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion: 69 Resp: 6229

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 279.4 | 123.8 | 185.6# |
| 100 | 70.5 | 28.4 | 42.6# |

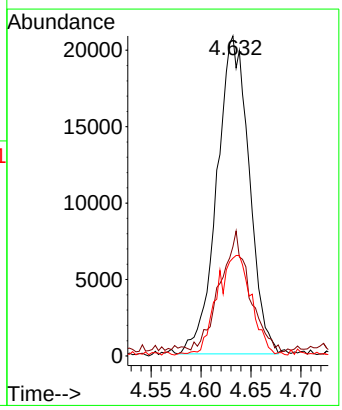


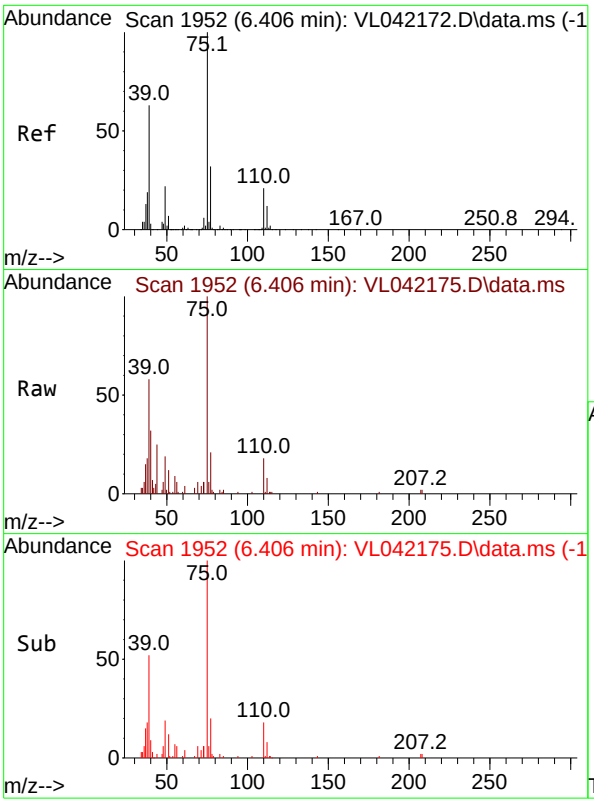




#44
2,2,4-Trimethylpentane
Concen: 0.532 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 57 Resp: 46646

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 36.7 | 26.8 | 40.2 |
| 56 | 34.3 | 25.6 | 38.4 |



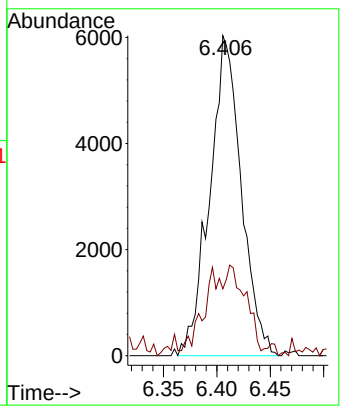


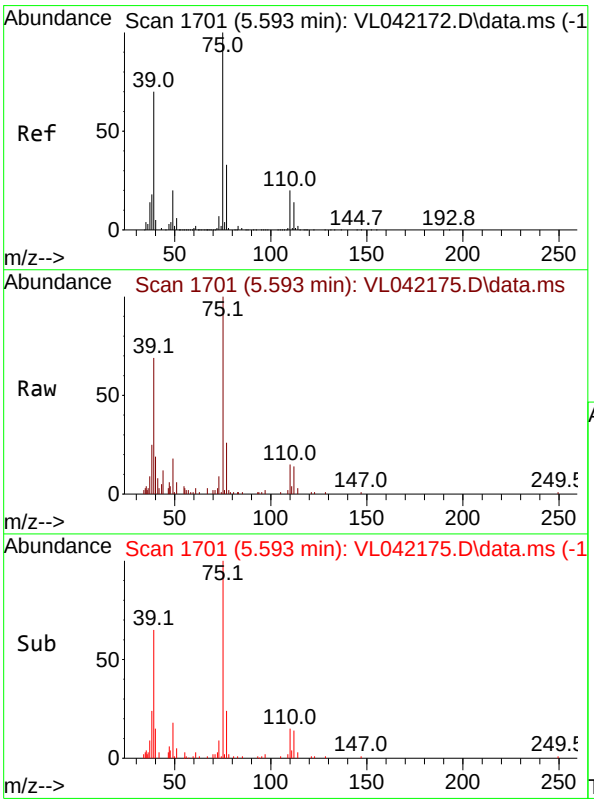

#45
t-1,3-Dichloropropene
Concen: 0.526 ppbv
RT: 6.406 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion: 75 Resp: 12404

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 20.9 | 26.0 | 39.0# |

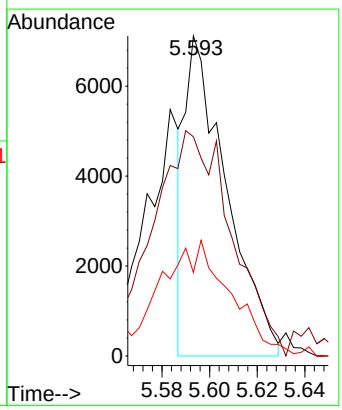


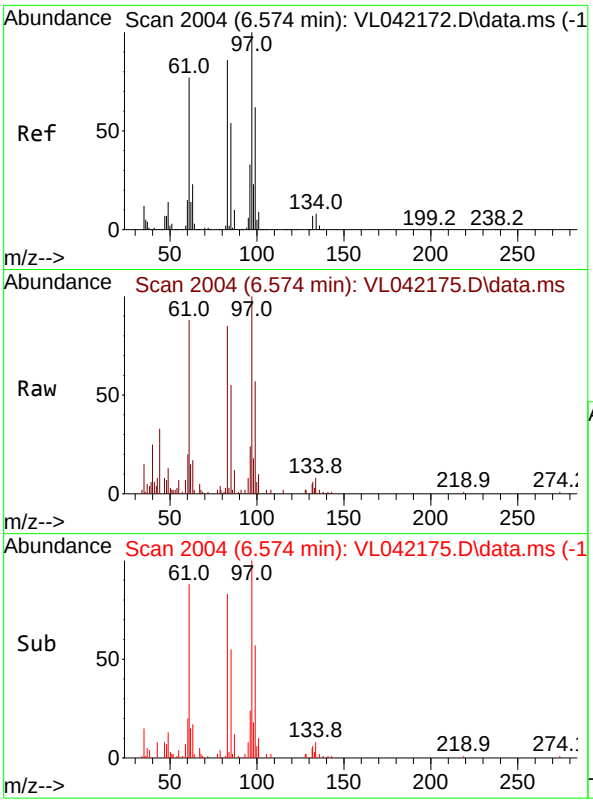




#46
cis-1,3-Dichloropropene
Concen: 0.297 ppbv
RT: 5.593 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 75 Resp: 8584

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 39 | 65.0 | 55.8 | 83.6 |
| 77 | 23.4 | 26.0 | 39.0# |



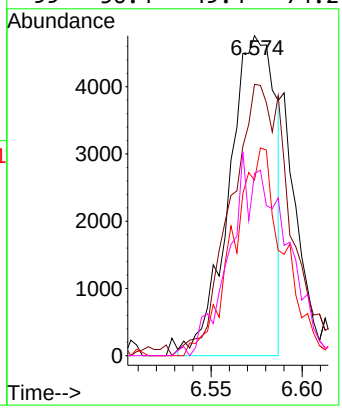


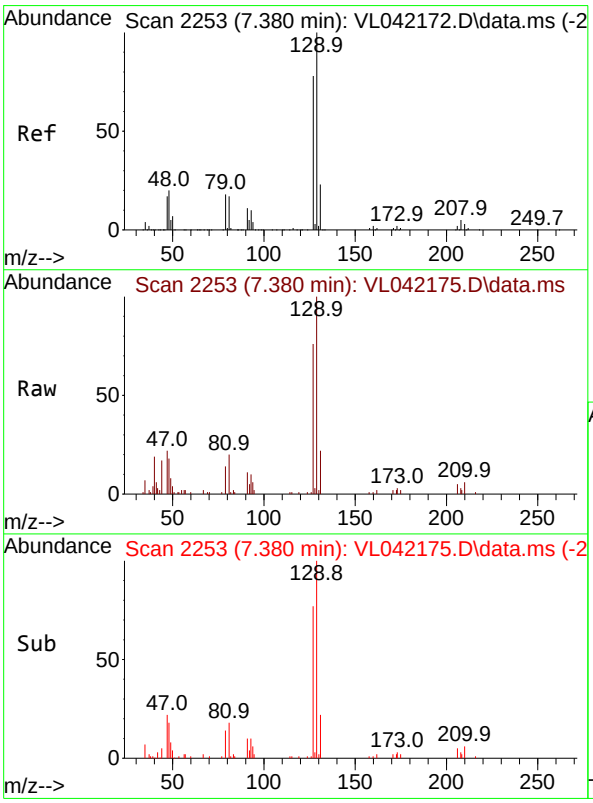

#47
1,1,2-Trichloroethane
Concen: 0.419 ppbv
RT: 6.574 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion: 97 Resp: 8374

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 84.5 | 69.2 | 103.8 |
| 85 | 55.9 | 43.1 | 64.7 |
| 99 | 56.4 | 49.4 | 74.2 |

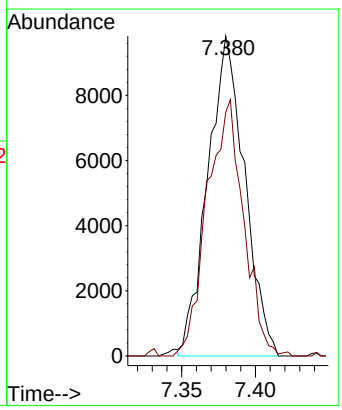


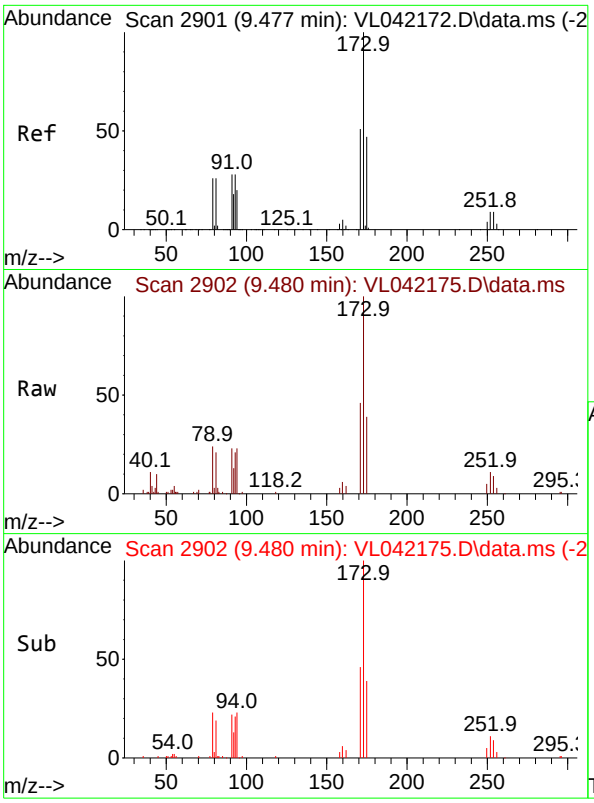




#48
Dibromochloromethane
Concen: 0.503 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:129 Resp: 17042

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 79.4 | 39.1 | 117.2 |



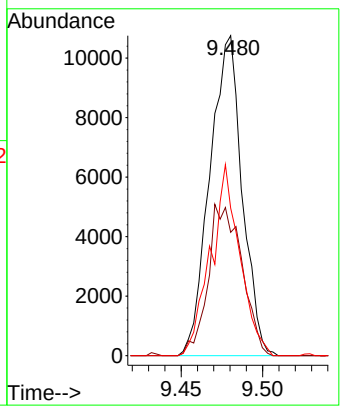


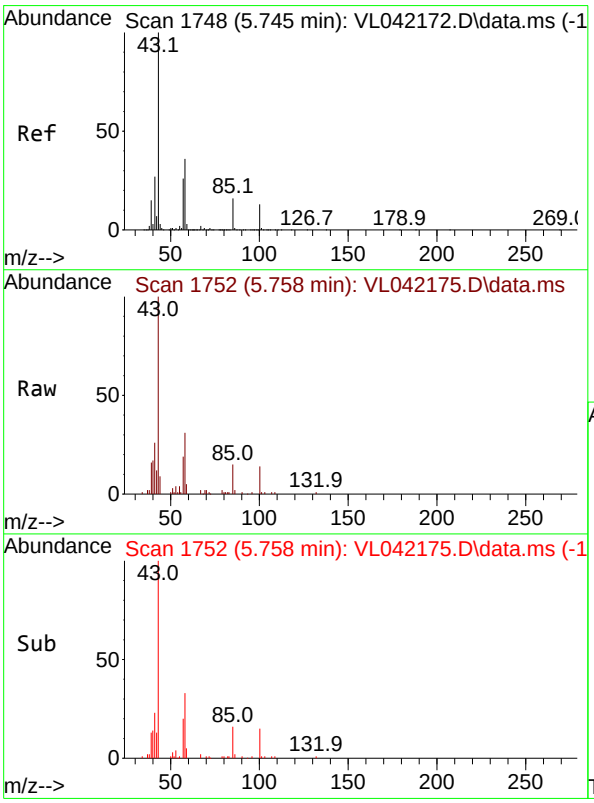

#49
Bromoform
Concen: 0.487 ppbv
RT: 9.480 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion:173 Resp: 14828

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.7 | 38.6 | 57.8 |
| 171 | 53.8 | 41.8 | 62.6 |

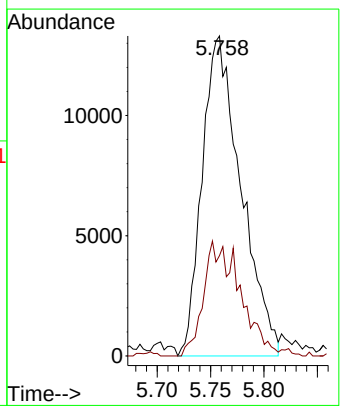


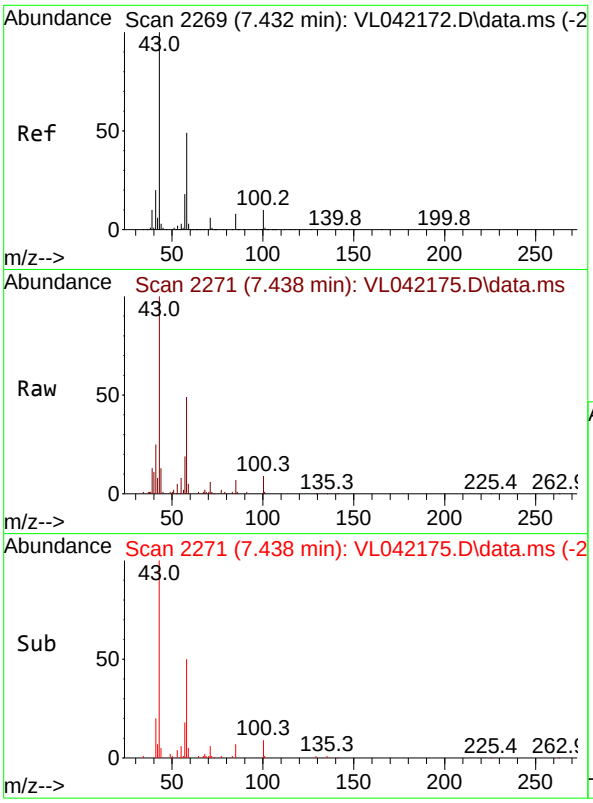




#50
4-Methyl-2-Pentanone
Concen: 0.559 ppbv
RT: 5.758 min Scan# 1752
Delta R.T. 0.013 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 43 Resp: 33674

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 34.4 | 29.0 | 43.6 |



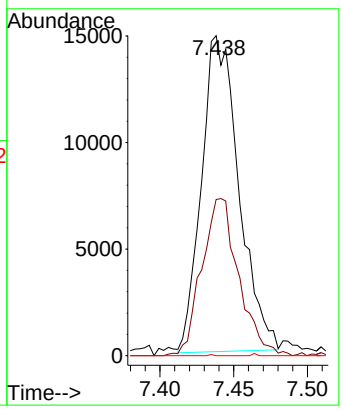


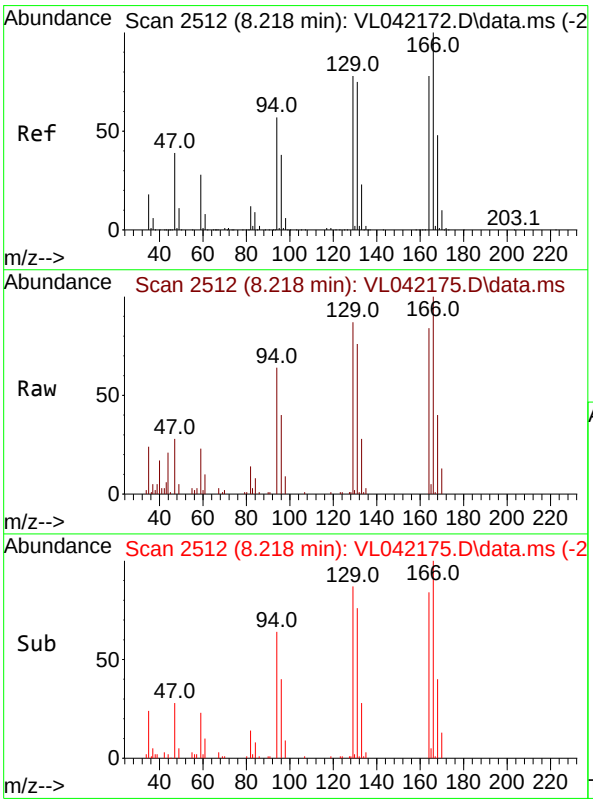

#51
2-Hexanone
Concen: 0.523 ppbv
RT: 7.438 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion: 43 Resp: 26154

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 49.8 | 39.7 | 59.5 |
| 98 | 0.0 | 0.1 | 0.1# |

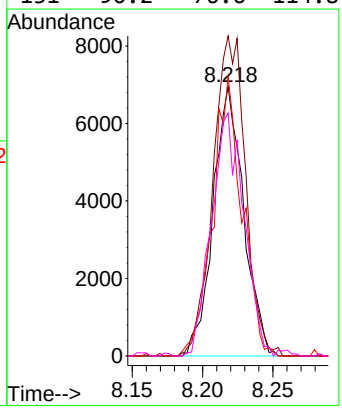


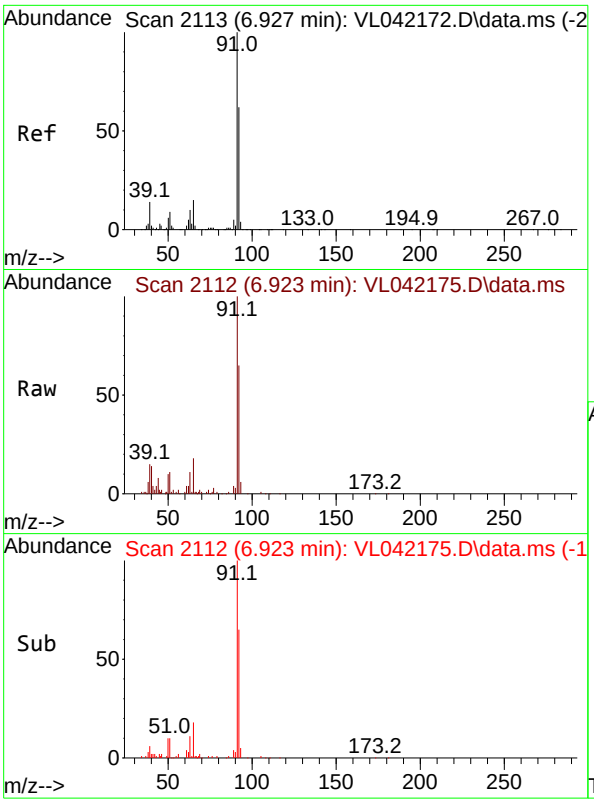




#52
Tetrachloroethene
Concen: 0.510 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:164 Resp: 10502

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 118.9 | 102.5 | 153.7 |
| 129 | 103.8 | 79.8 | 119.8 |
| 131 | 90.2 | 76.6 | 114.8 |



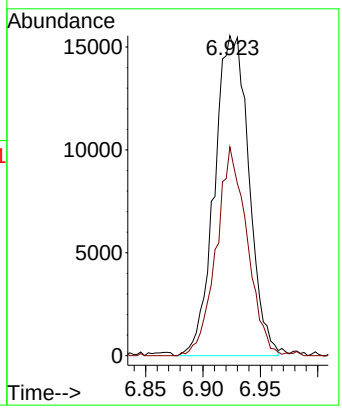


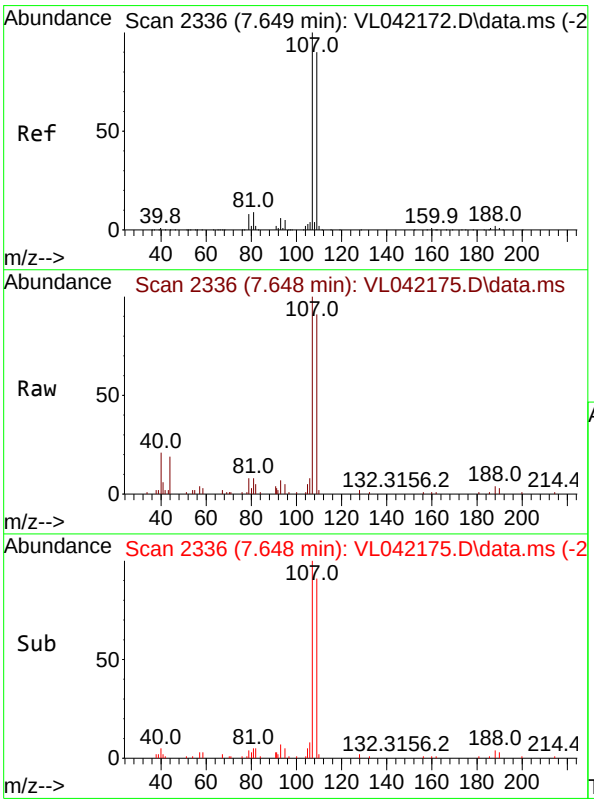

#53
Toluene
Concen: 0.527 ppbv
RT: 6.923 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion: 91 Resp: 32444

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 58.9 | 48.4 | 72.6 |

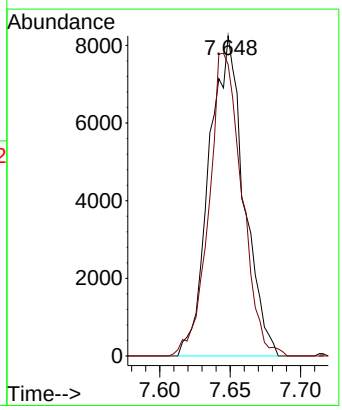


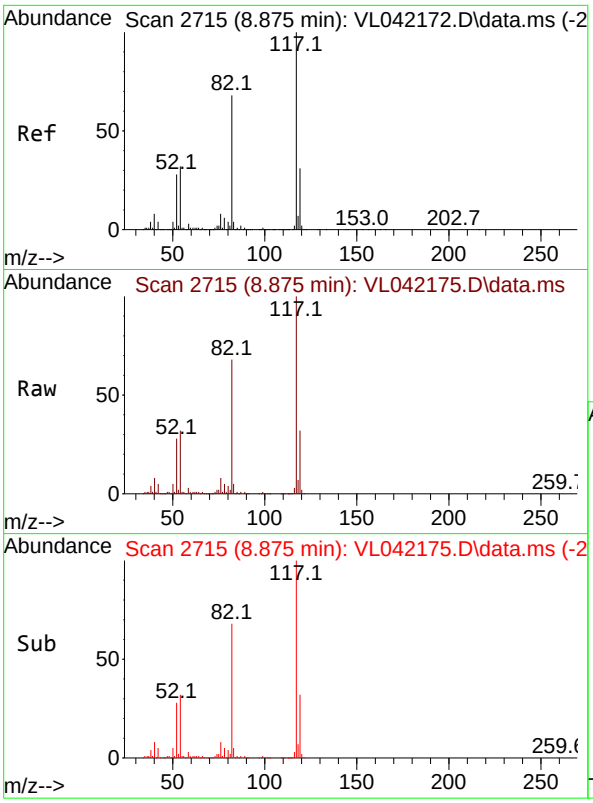




#54
1,2-Dibromoethane
Concen: 0.510 ppbv
RT: 7.648 min Scan# 2336
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:107 Resp: 14220

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 89.1 | 72.2 | 108.4 |



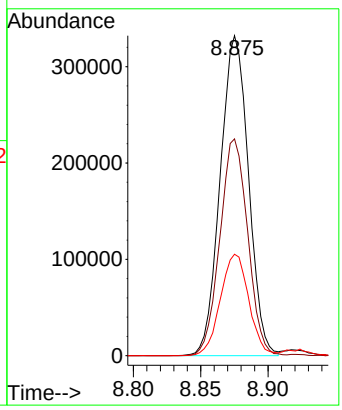


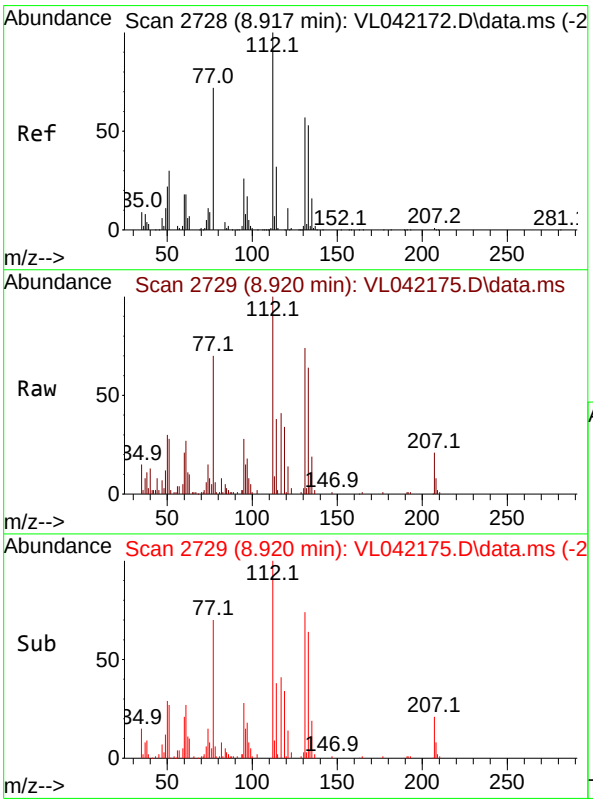

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion:117 Resp: 485078

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 67.0 | 55.8 | 83.6 |
| 119 | 33.7 | 25.5 | 38.3 |

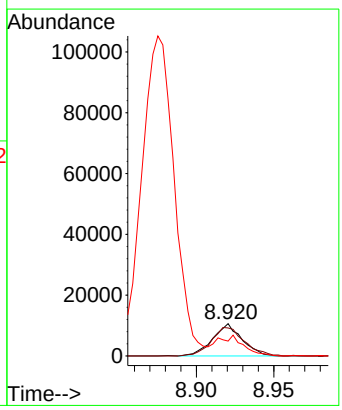


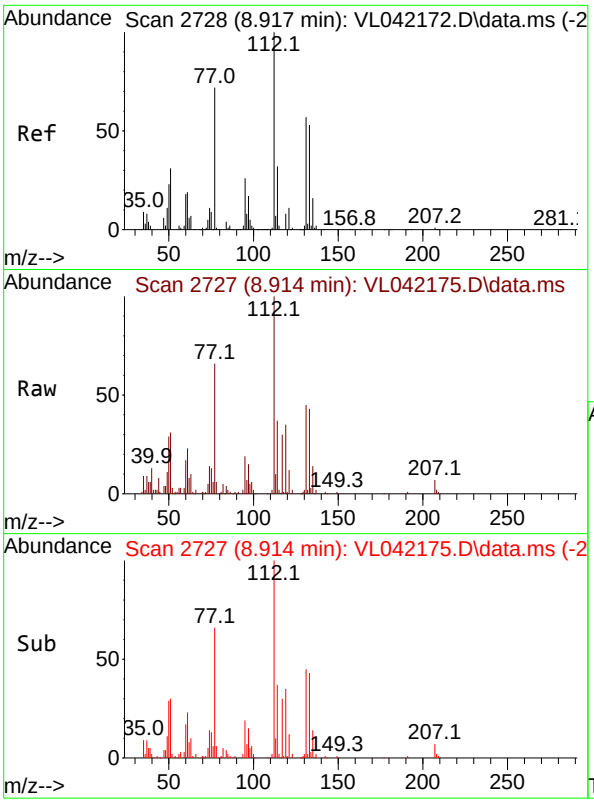




#56
1,1,1,2-Tetrachloroethane
Concen: 0.523 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:131 Resp: 13959

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 99.6 | 76.6 | 114.8 |
| 119 | 1170.3 | 49.8 | 74.6# |



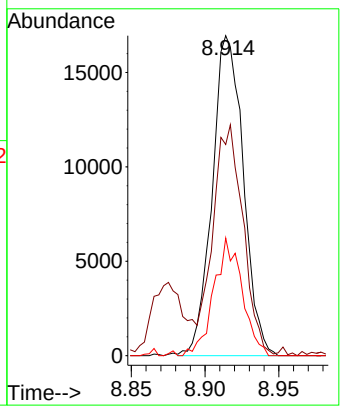


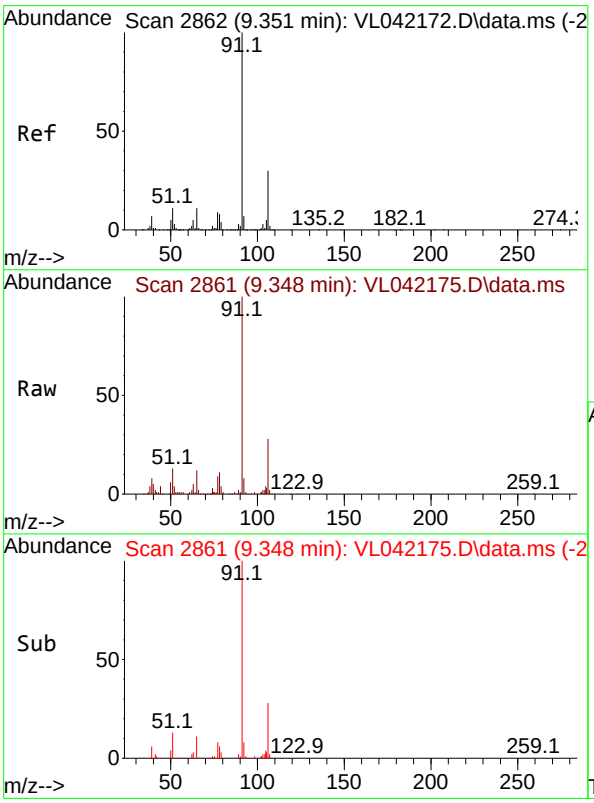

#57
Chlorobenzene
Concen: 0.540 ppbv
RT: 8.914 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion:112 Resp: 24826

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 65.1 | 58.2 | 87.2 |
| 114 | 36.8 | 29.1 | 35.5# |

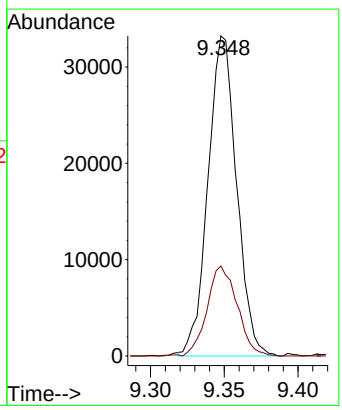


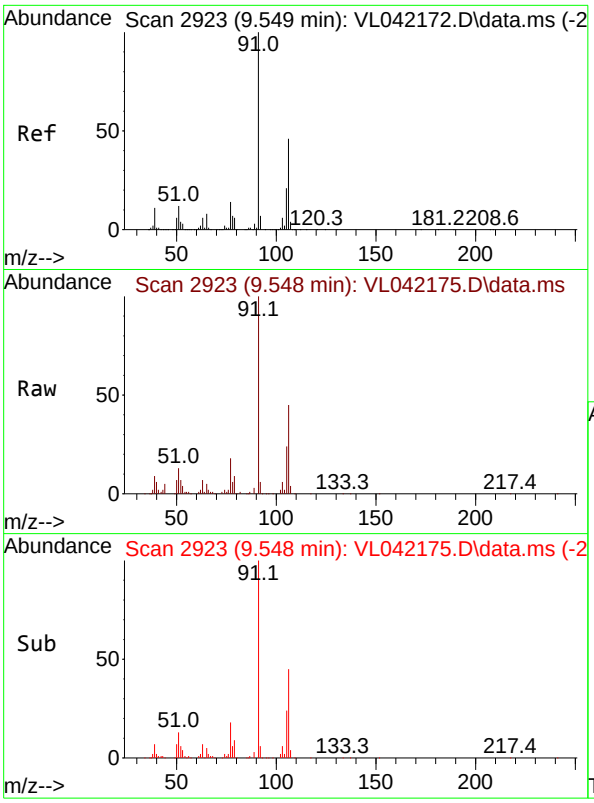




#58
Ethyl Benzene
Concen: 0.521 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 91 Resp: 44862

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 28.1 | 24.2 | 36.2 |



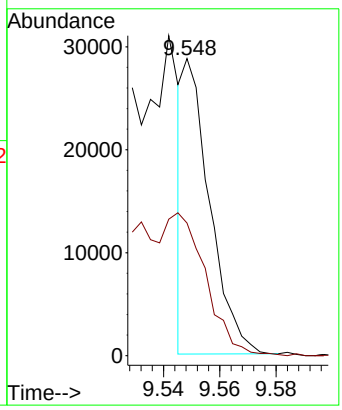


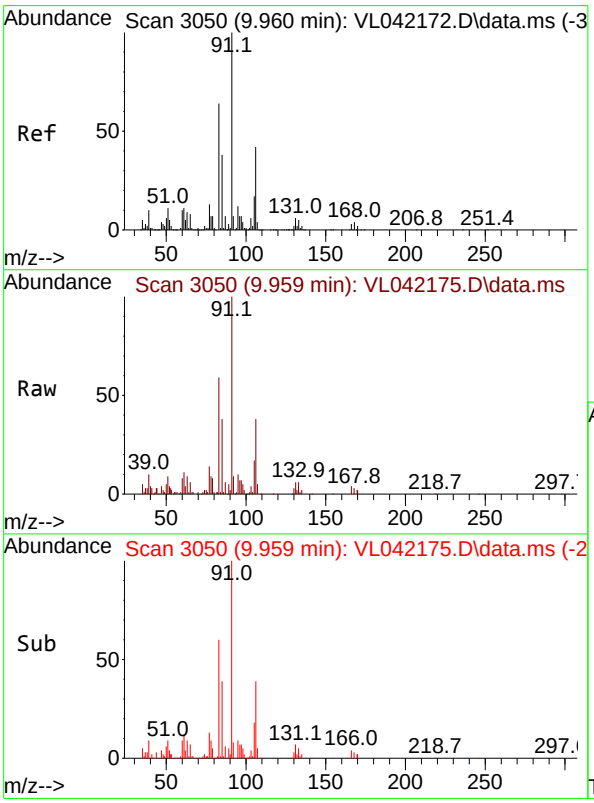

#59
m/p-Xylene
Concen: 0.272 ppbv
RT: 9.548 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion: 91 Resp: 18711

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 176.2 | 36.4 | 54.6# |

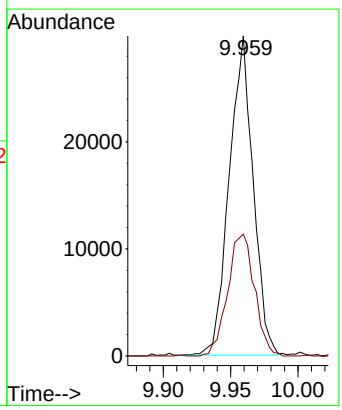


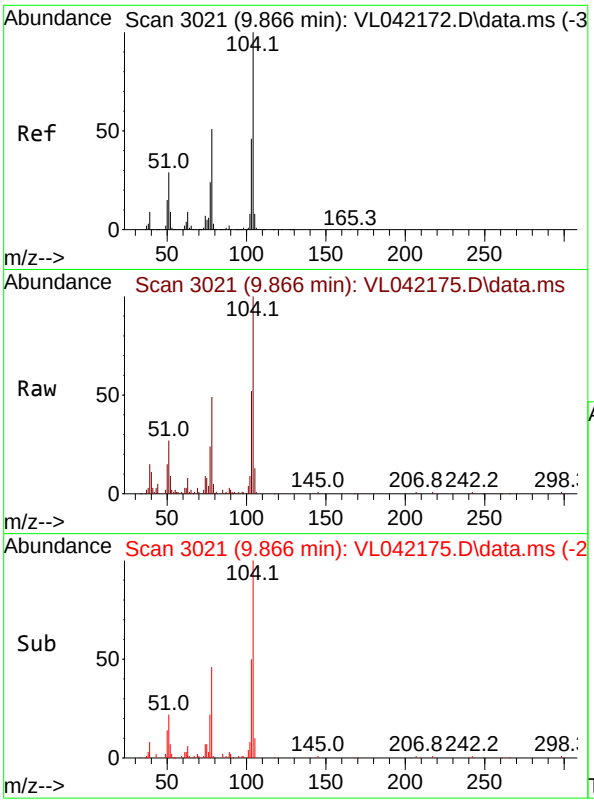




#60
o-Xylene
Concen: 0.535 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 91 Resp: 36879

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 42.7 | 20.8 | 62.5 |



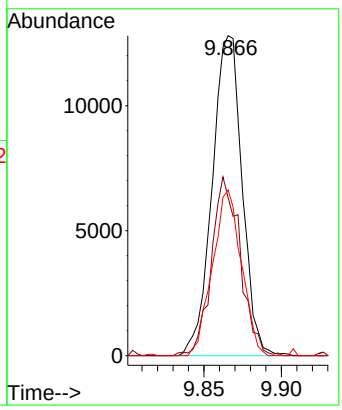


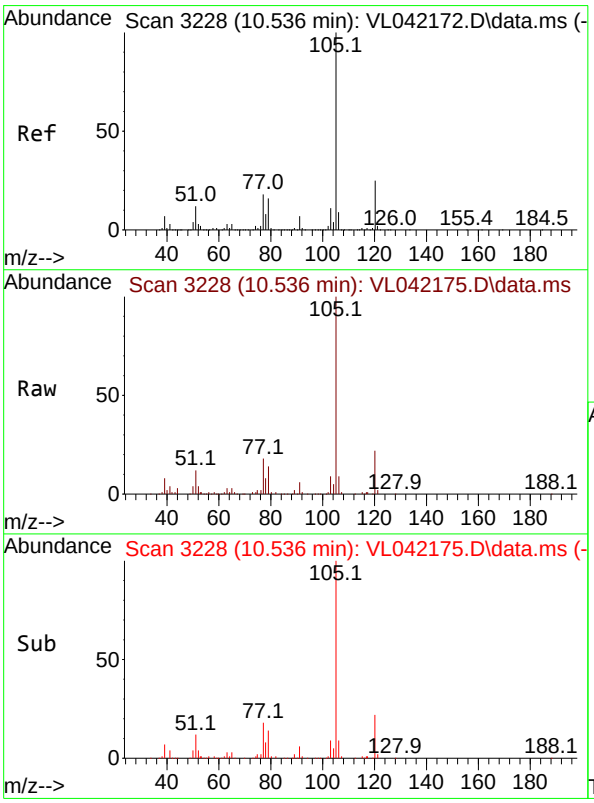

#61
Styrene
Concen: 0.504 ppbv
RT: 9.866 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion:104 Resp: 17198

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 53.7 | 41.8 | 62.6 |
| 103 | 50.2 | 37.0 | 55.4 |

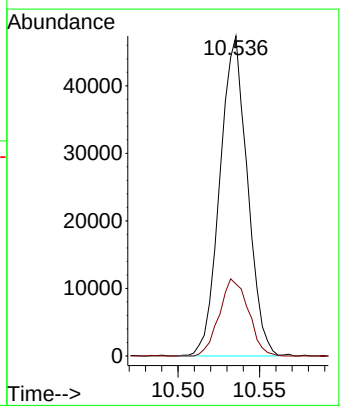


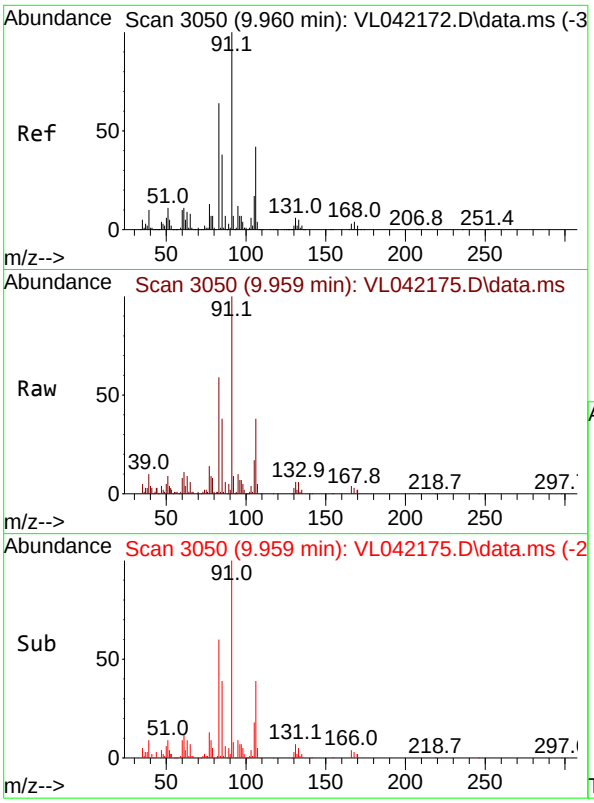




#62
Isopropylbenzene
Concen: 0.538 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:105 Resp: 55531

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.5 | 19.9 | 29.9 |



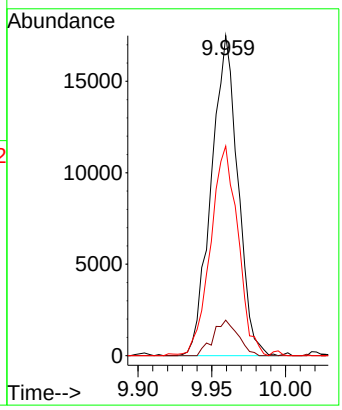


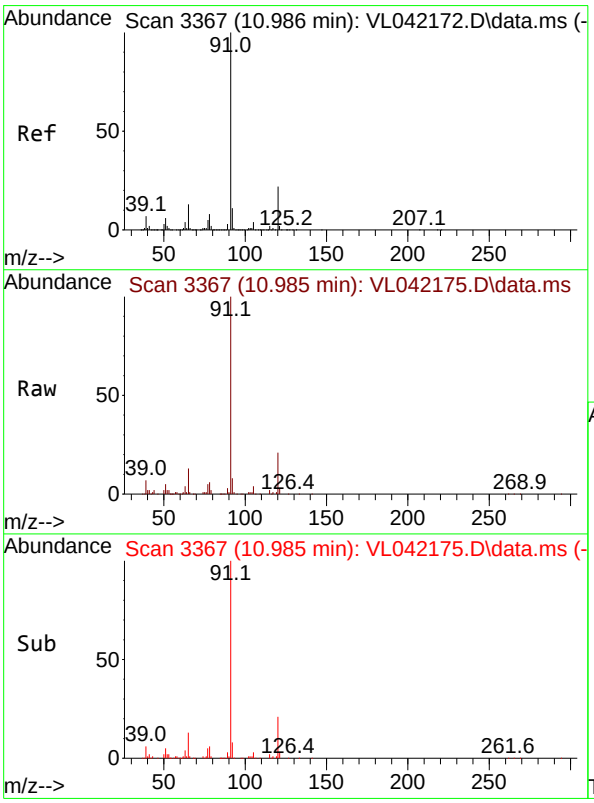

#63
1,1,2,2-Tetrachloroethane
Concen: 0.525 ppbv
RT: 9.959 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion: 83 Resp: 21989

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.4 | 4.8 | 14.4 |
| 85 | 68.1 | 32.5 | 97.5 |

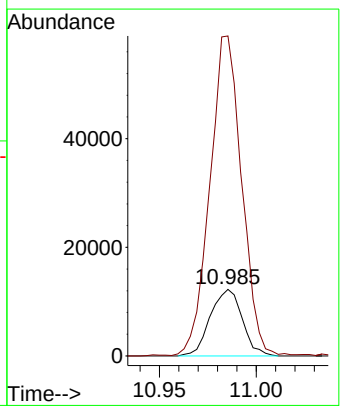


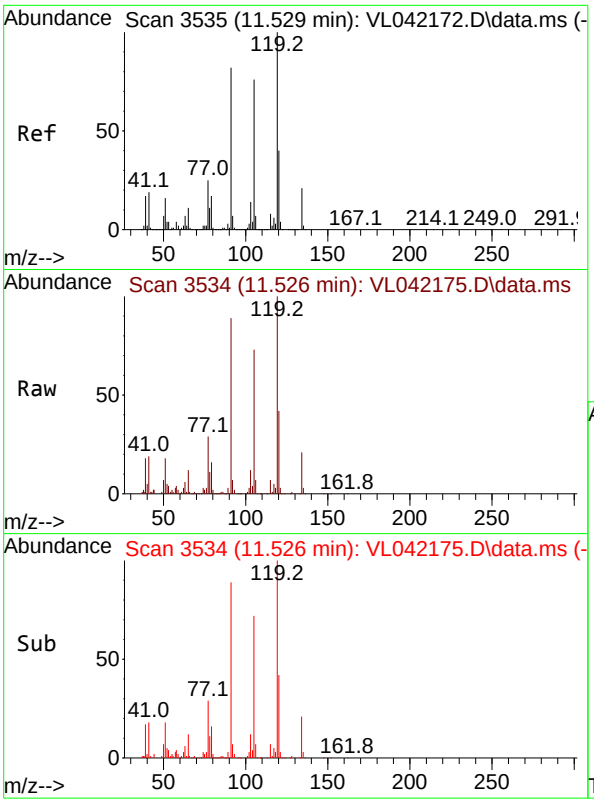




#64
n-propylbenzene
Concen: 0.528 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:120 Resp: 14030

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 483.1 | 376.9 | 565.3 |



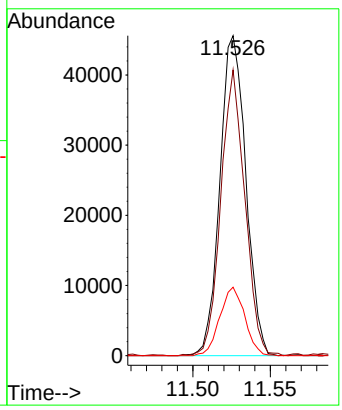


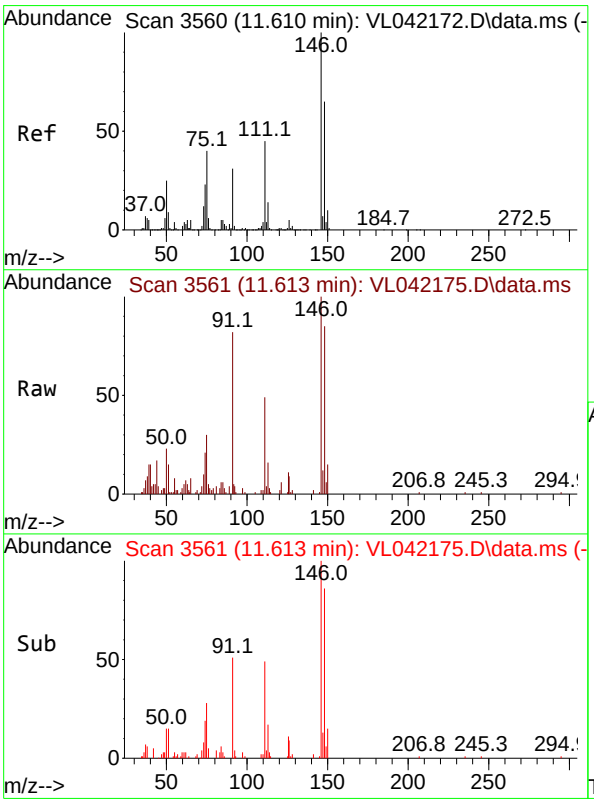

#65
tert-Butylbenzene
Concen: 0.557 ppbv
RT: 11.526 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion:119 Resp: 53115

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 82.9 | 66.0 | 99.0 |
| 134 | 20.6 | 16.7 | 25.1 |

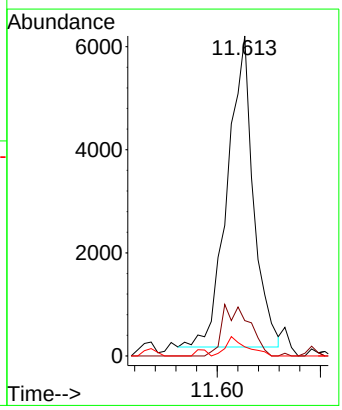


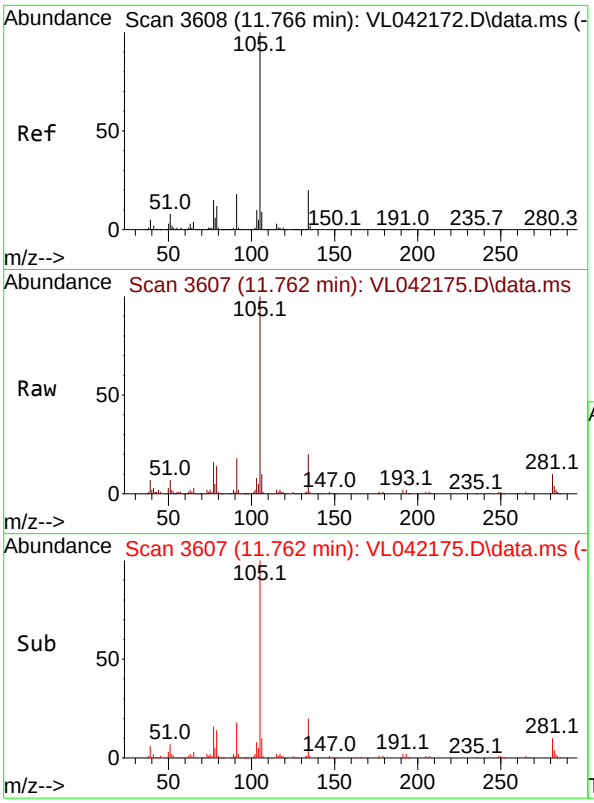




#66
Benzyl Chloride
Concen: 0.520 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 91 Resp: 5263

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 18.7 | 13.8 | 20.6 |
| 128 | 5.8 | 4.5 | 6.7 |



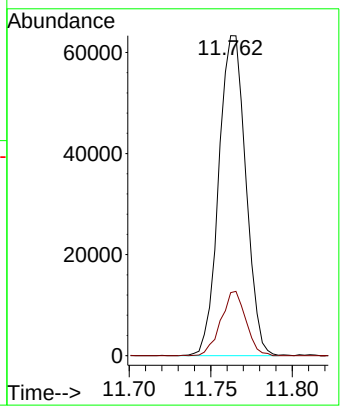


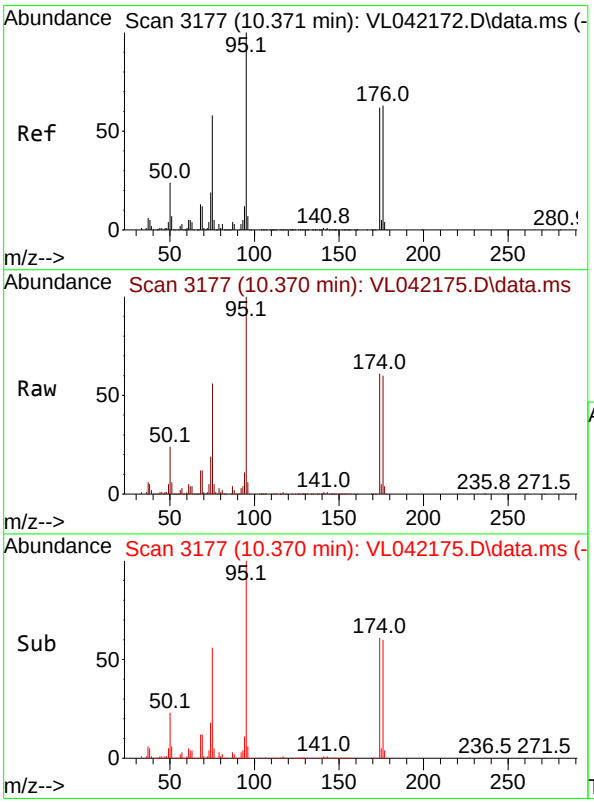

#67
sec-Butylbenzene
Concen: 0.550 ppbv
RT: 11.762 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion:105 Resp: 72879

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 18.6 | 15.5 | 23.3 |

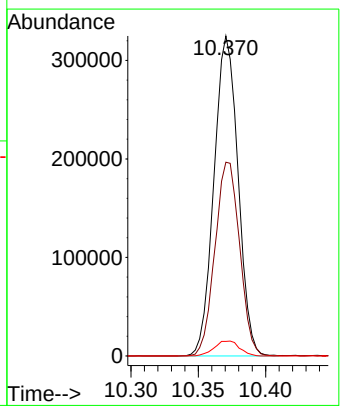


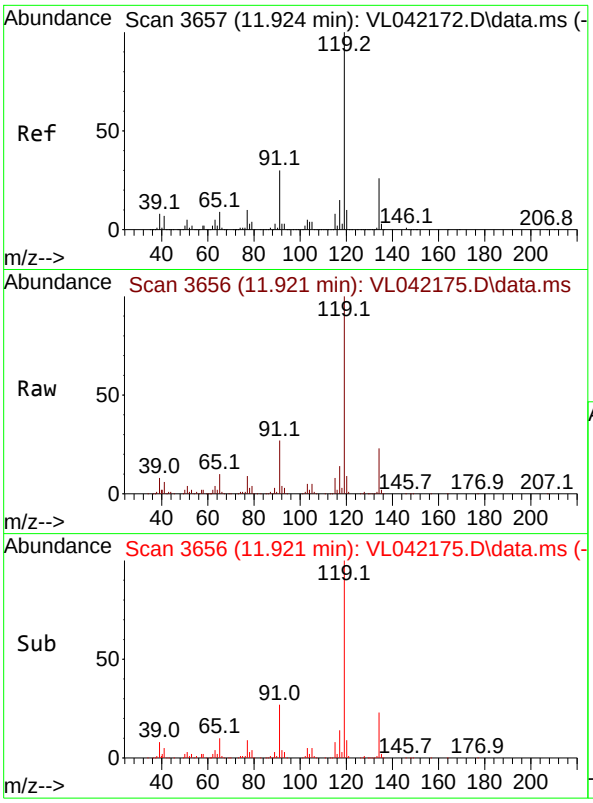




#68
1-Bromo-4-Fluorobenzene
Concen: 10.130 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 95 Resp: 403513

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 62.3 | 50.6 | 76.0 |
| 175 | 4.9 | 3.8 | 5.6 |



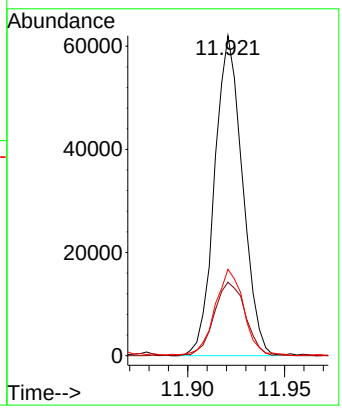


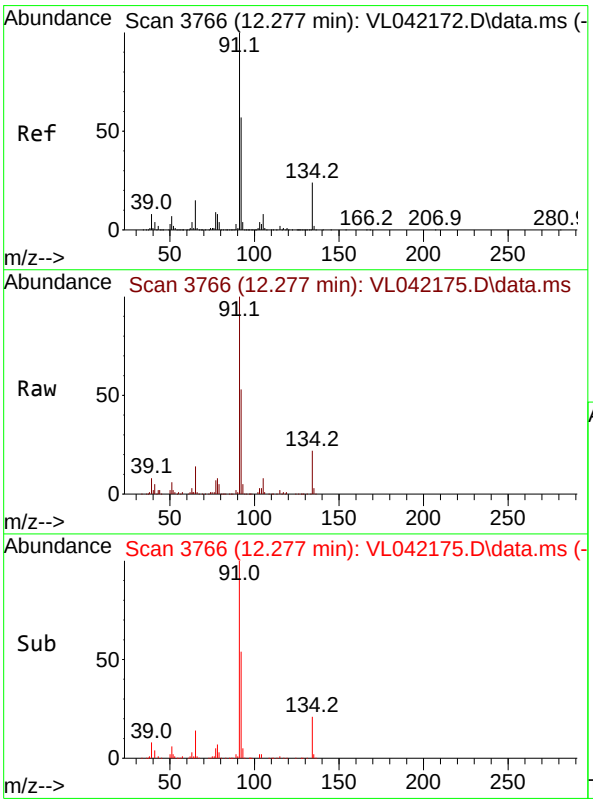

#69
p-Isopropyltoluene
Concen: 0.542 ppbv
RT: 11.921 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion:119 Resp: 61933

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.8 | 20.4 | 30.6 |
| 91 | 29.4 | 23.7 | 35.5 |

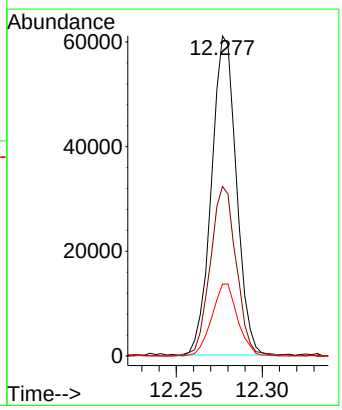


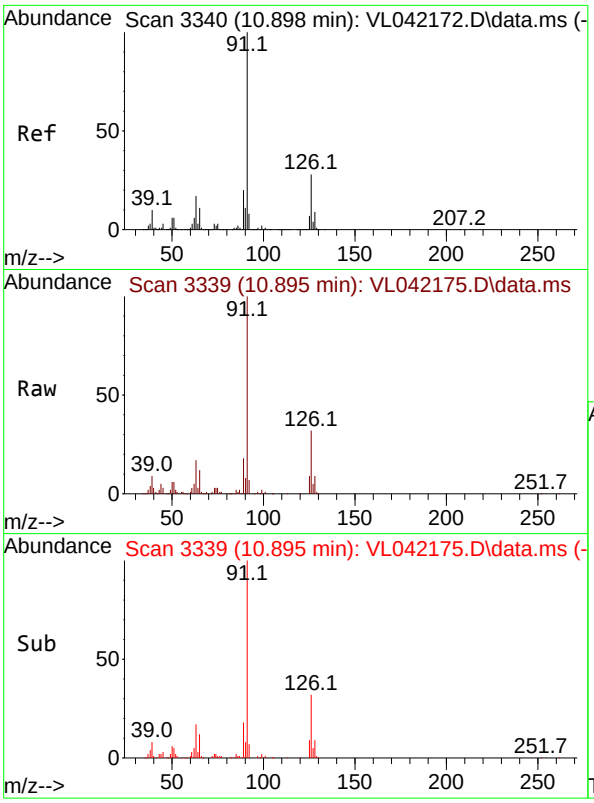




#70
n-Butylbenzene
Concen: 0.527 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 91 Resp: 61507

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 55.3 | 44.9 | 67.3 |
| 134 | 23.4 | 19.2 | 28.8 |



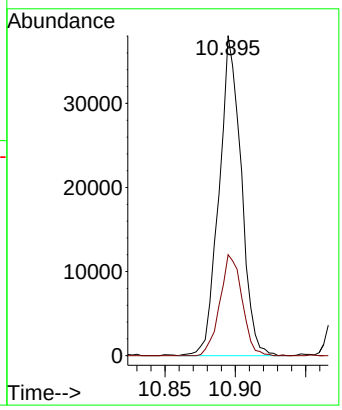


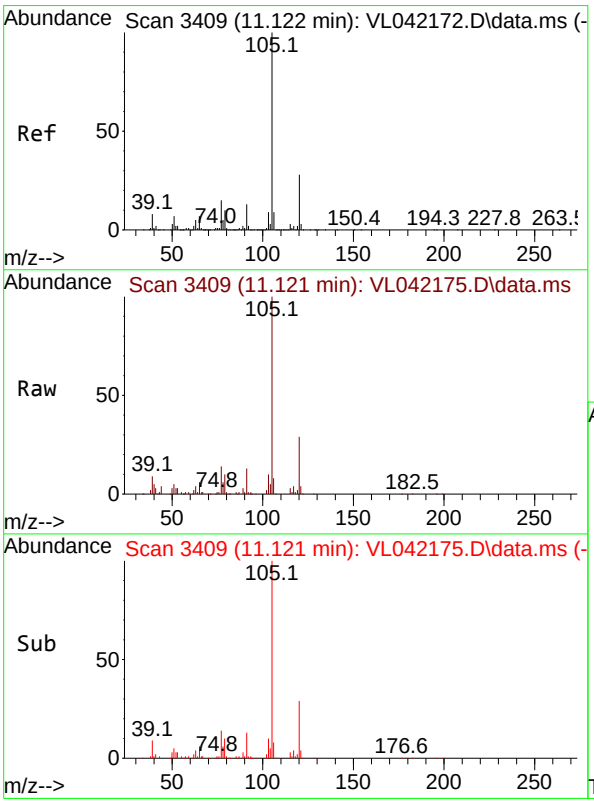

#71
2-Chlorotoluene
Concen: 0.520 ppbv
RT: 10.895 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion: 91 Resp: 41637

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 31.7 | 11.6 | 46.4 |

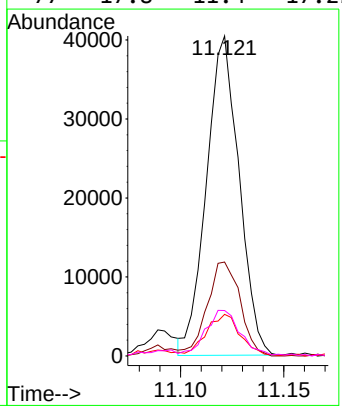


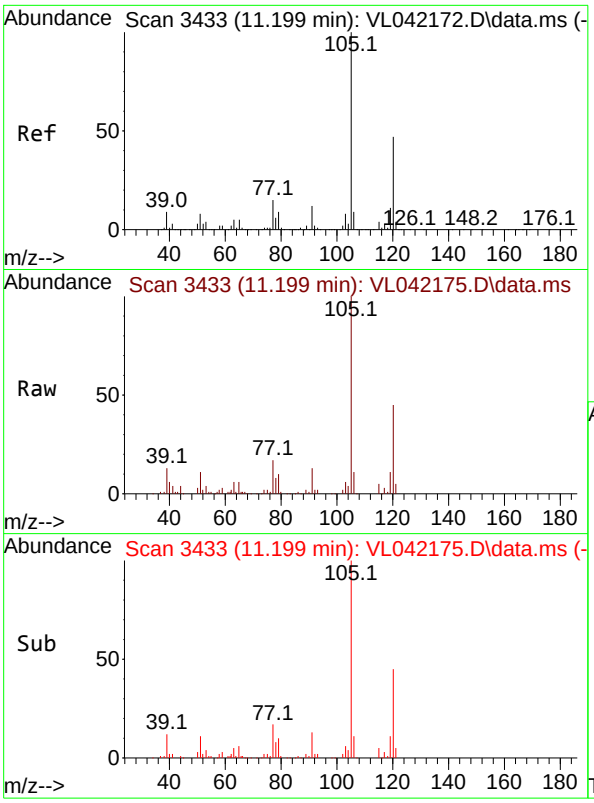




#72
4-Ethyltoluene
Concen: 0.518 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:105 Resp: 44473

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 32.3 | 23.4 | 35.0 |
| 91 | 14.9 | 10.3 | 15.5 |
| 77 | 17.8 | 11.4 | 17.2# |



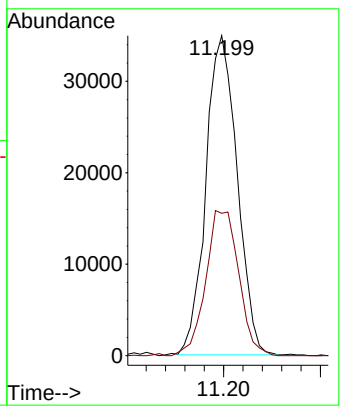


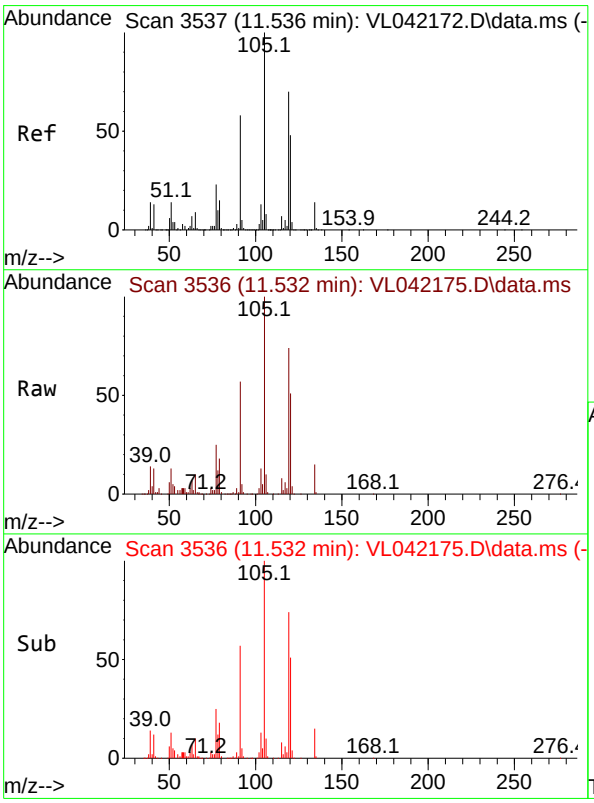

#73
1,3,5-Trimethylbenzene
Concen: 0.523 ppbv
RT: 11.199 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion:105 Resp: 39190

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.6 | 37.4 | 56.0 |

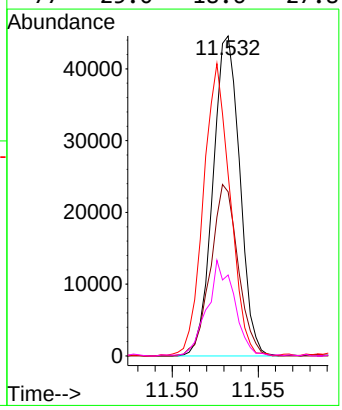


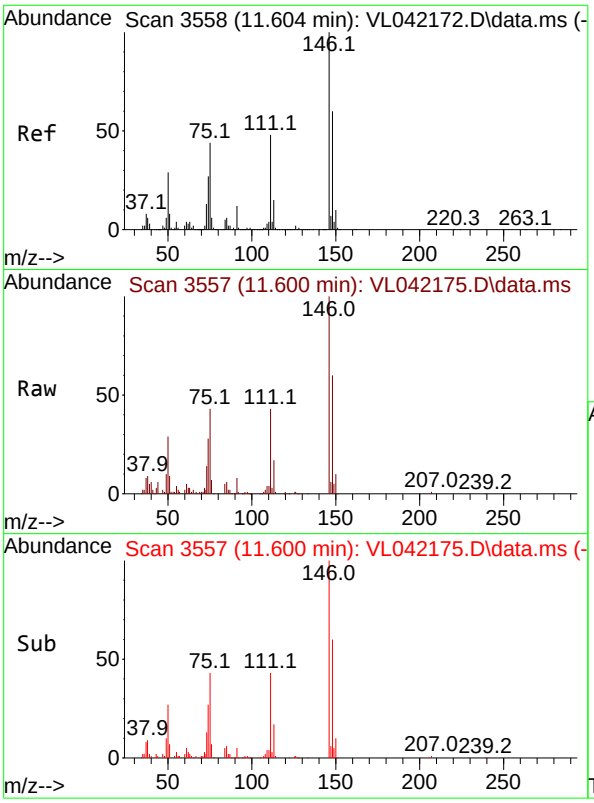




#74
1,2,4-Trimethylbenzene
Concen: 0.560 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:105 Resp: 48370

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 51.3 | 38.6 | 58.0 |
| 91 | 56.5 | 46.2 | 69.2 |
| 77 | 25.0 | 18.6 | 27.8 |



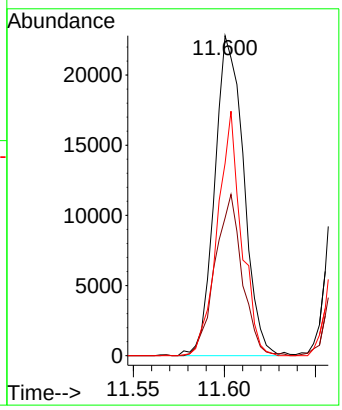


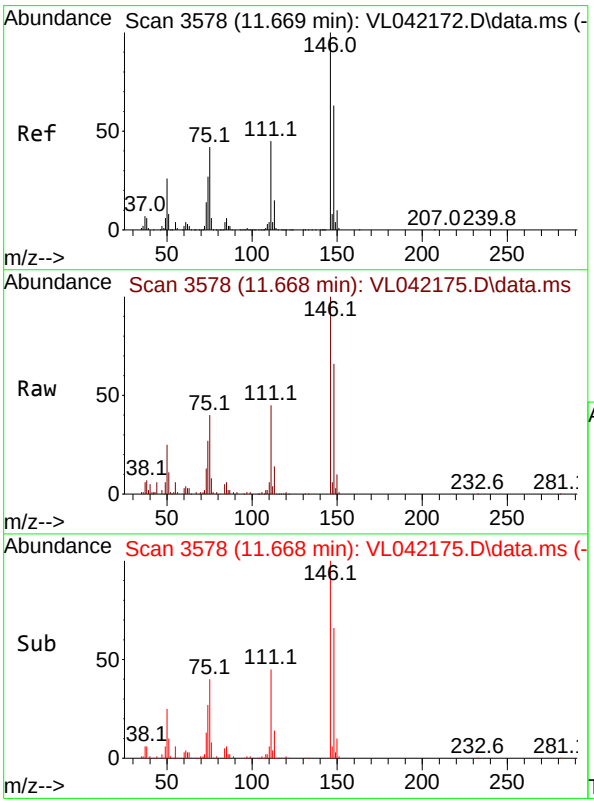

#75
1,3-Dichlorobenzene
Concen: 0.530 ppbv
RT: 11.600 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion:146 Resp: 25122

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 47.5 | 23.8 | 71.2 |
| 148 | 63.7 | 31.9 | 95.9 |

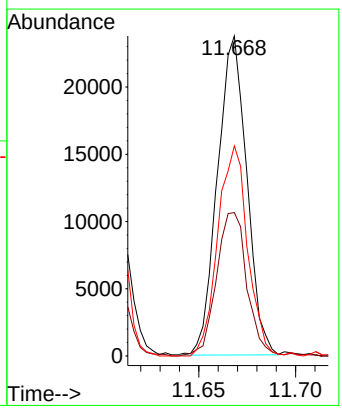


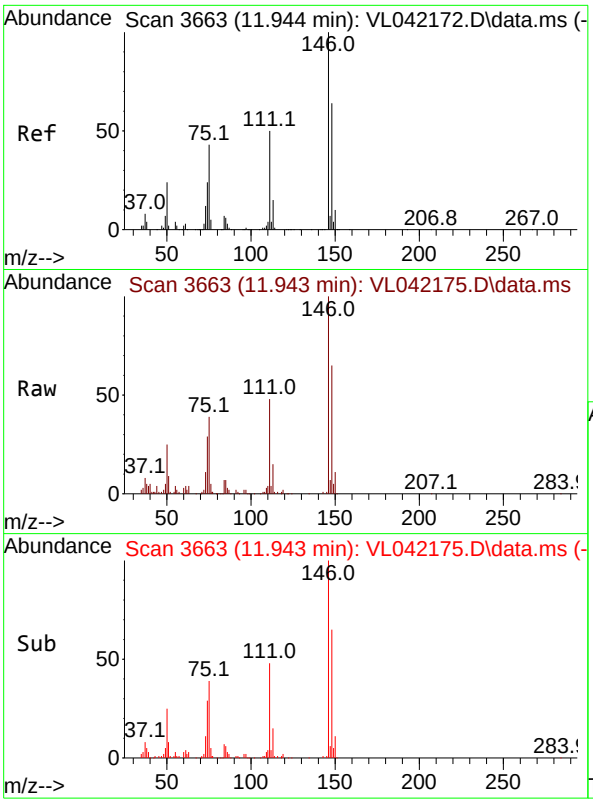




#76
1,4-Dichlorobenzene
Concen: 0.530 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:146 Resp: 24991

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 47.0 | 23.0 | 69.0 |
| 148 | 67.5 | 31.9 | 95.7 |



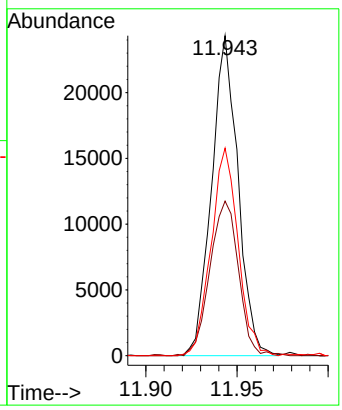


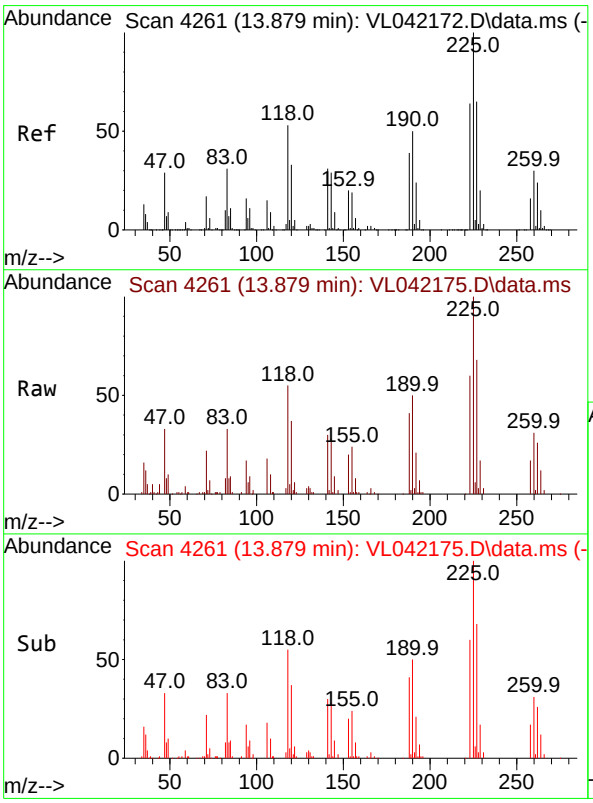

#77
1,2-Dichlorobenzene
Concen: 0.532 ppbv
RT: 11.943 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion:146 Resp: 24548

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 52.2 | 24.8 | 74.3 |
| 148 | 66.6 | 31.6 | 94.8 |

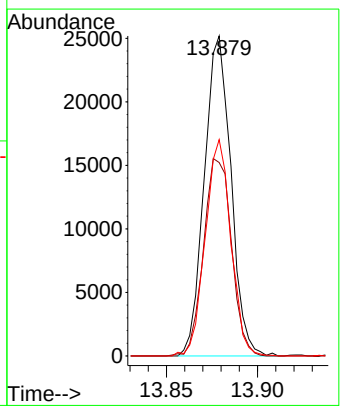


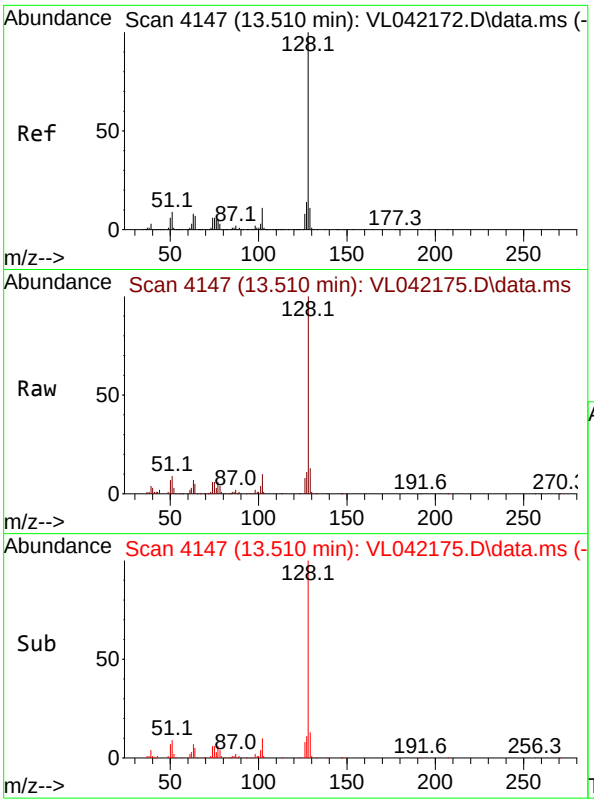




#78
Hexachloro-1,3-Butadiene
Concen: 0.546 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:225 Resp: 25636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 64.5 | 50.6 | 76.0 |
| 227 | 64.8 | 51.2 | 76.8 |



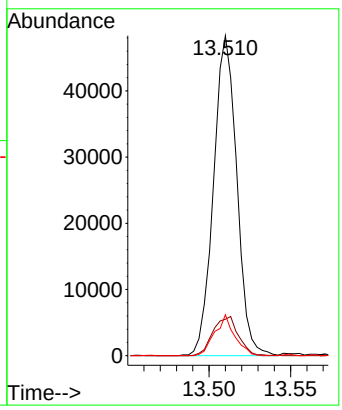


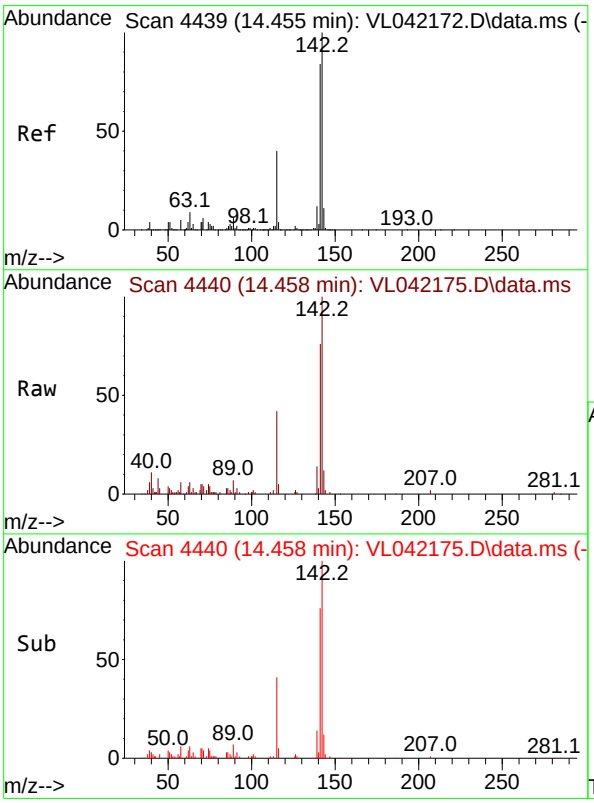

#79
Naphthalene
Concen: 0.508 ppbv
RT: 13.510 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion:128 Resp: 47990

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 11.4 | 10.8 | 16.2 |
| 129 | 12.8 | 9.0 | 13.4 |

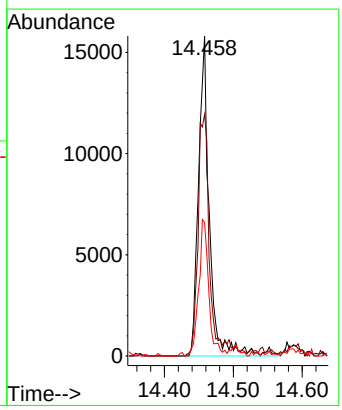


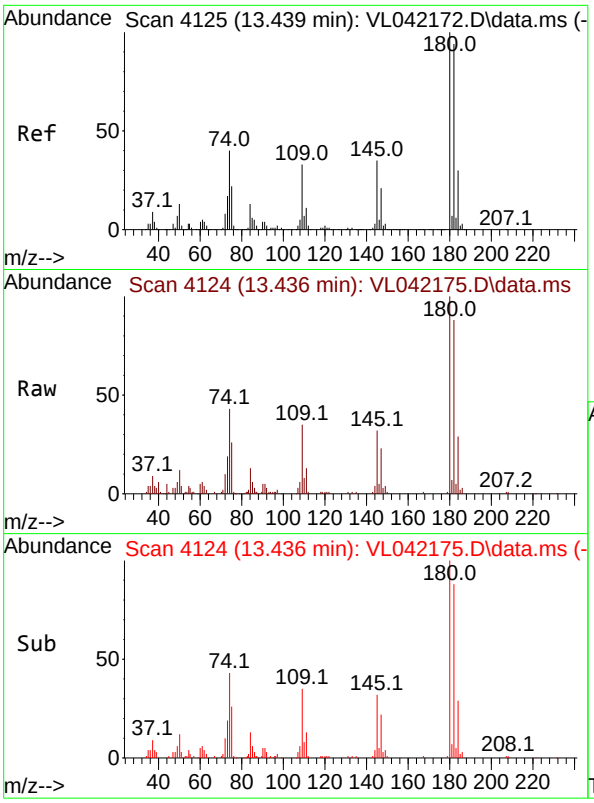




#80
Naphthalene,2-methyl-
Concen: 0.380 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:142 Resp: 17486

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 83.3 | 66.3 | 99.5 |
| 115 | 43.5 | 31.6 | 47.4 |



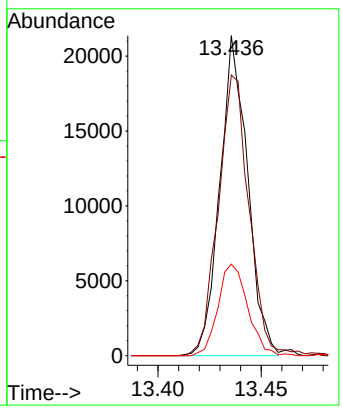



#81
1,2,4-Trichlorobenzene
Concen: 0.457 ppbv
RT: 13.436 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion:180 Resp: 19924

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 97.9 | 75.1 | 112.7 |
| 184 | 31.1 | 24.4 | 36.6 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042176.D
Acq On : 27 Mar 2025 10:32
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Quant Time: Mar 28 01:35:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.787 | 49 | 180740 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.955 | 114 | 528028 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.878 | 117 | 481506 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.374 | 95 | 398069 | 10.067 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 100.700% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.554 | 85 | 2353 | 0.088 | ppbv | 100 |
| 3) Chlorodifluoromethane | 1.476 | 51 | 3006 | 0.110 | ppbv # | 40 |
| 4) Chloromethane | 1.531 | 50 | 1330 | 0.122 | ppbv # | 53 |
| 5) Vinyl Chloride | 1.580 | 62 | 1274 | 0.115 | ppbv # | 42 |
| 6) Bromomethane | 1.667 | 94 | 537 | 0.109 | ppbv # | 73 |
| 7) Chloroethane | 1.703 | 64 | 616 | 0.141 | ppbv # | 49 |
| 8) Dichlorotetrafluoroethane | 1.554 | 85 | 2353 | 0.104 | ppbv | 92 |
| 9) Propene | 1.486 | 41 | 1664 | 0.135 | ppbv # | 44 |
| 11) Trichlorofluoromethane | 1.878 | 101 | 2644 | 0.102 | ppbv | 97 |
| 12) 1,1,2-Trichlorotrifluo... | 2.136 | 101 | 2551 | 0.120 | ppbv # | 81 |
| 13) Ethanol | 1.716 | 45 | 721 | 0.750 | ppbv | 60 |
| 14) Bromoethene | 1.780 | 108 | 956 | 0.117 | ppbv # | 11 |
| 15) Acetone | 1.835 | 43 | 5179 | 0.205 | ppbv | 92 |
| 16) 1,3-Butadiene | 1.609 | 39 | 1912 | 0.168 | ppbv | 94 |
| 17) tert-Butyl alcohol | 2.046 | 59 | 3546 | 0.113 | ppbv # | 30 |
| 18) 1,1-Dichloroethene | 2.033 | 96 | 1155 | 0.116 | ppbv # | 72 |
| 19) Isopropyl Alcohol | 1.891 | 45 | 1838 | 0.129 | ppbv # | 49 |
| 20) Methylene Chloride | 2.059 | 84 | 2388 | 0.254 | ppbv # | 88 |
| 21) Allyl Chloride | 2.091 | 41 | 3040 | 0.171 | ppbv # | 77 |
| 22) trans-1,2-Dichloroethene | 2.722 | 96 | 1512 | 0.130 | ppbv | 99 |
| 23) Vinyl Acetate | 2.457 | 43 | 1746 | 0.166 | ppbv # | 1 |
| 24) 1,1-Dichloroethane | 2.408 | 63 | 2446 | 0.114 | ppbv # | 92 |
| 25) Ethyl Acetate | 2.842 | 43 | 6359 | 0.097 | ppbv # | 80 |
| 26) Hexane | 2.823 | 57 | 3126 | 0.123 | ppbv # | 5 |
| 27) Carbon Disulfide | 2.149 | 76 | 3075 | 0.113 | ppbv # | 1 |
| 28) Methyl tert-Butyl Ether | 2.438 | 73 | 875 | 0.055 | ppbv # | 49 |
| 29) Chloroform | 2.845 | 83 | 4120 | 0.111 | ppbv | 92 |
| 30) Cyclohexane | 3.855 | 84 | 1113 | 0.051 | ppbv # | 1 |
| 31) cis-1,2-Dichloroethene | 2.722 | 61 | 2587 | 0.101 | ppbv | 95 |
| 32) 1,1,1-Trichloroethane | 3.366 | 97 | 2773 | 0.065 | ppbv # | 50 |
| 34) 2-Butanone | 2.564 | 43 | 4331 | 0.113 | ppbv | 91 |
| 35) Carbon Tetrachloride | 3.768 | 117 | 3523 | 0.087 | ppbv # | 71 |
| 36) Benzene | 3.658 | 78 | 5031 | 0.096 | ppbv # | 82 |
| 37) 1,2-Dichloroethane | 3.218 | 62 | 2942 | 0.098 | ppbv | 97 |
| 39) 1,2-Dichloropropane | 3.959 | 63 | 135792 | 7.123 | ppbv # | 22 |
| 40) 1,4-Dioxane | 4.616 | 88 | 843 | 0.085 | ppbv # | 25 |
| 42) Bromodichloromethane | 4.490 | 83 | 4103 | 0.099 | ppbv # | 94 |
| 43) Methyl Methacrylate | 4.878 | 69 | 930 | 0.042 | ppbv # | 1 |
| 45) t-1,3-Dichloropropene | 6.419 | 75 | 1449 | 0.061 | ppbv # | 64 |
| 48) Dibromochloromethane | 7.383 | 129 | 2284 | 0.067 | ppbv | 68 |
| 49) Bromoform | 9.480 | 173 | 2928 | 0.095 | ppbv | 94 |
| 51) 2-Hexanone | 7.448 | 43 | 4284 | 0.085 | ppbv # | 87 |
| 53) Toluene | 6.930 | 91 | 3144 | 0.051 | ppbv # | 25 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042176.D
Acq On : 27 Mar 2025 10:32
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Quant Time: Mar 28 01:35:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 54) 1,2-Dibromoethane | 7.652 | 107 | 1864 | 0.066 | ppbv | | 98 |
| 56) 1,1,1,2-Tetrachloroethane | 8.924 | 131 | 2963 | 0.112 | ppbv | # | 1 |
| 57) Chlorobenzene | 8.917 | 112 | 4904 | 0.107 | ppbv | # | 74 |
| 58) Ethyl Benzene | 9.354 | 91 | 8648 | 0.101 | ppbv | | 93 |
| 59) m/p-Xylene | 9.545 | 91 | 6005 | 0.088 | ppbv | # | 12 |
| 60) o-Xylene | 9.959 | 91 | 8048 | 0.118 | ppbv | | 96 |
| 61) Styrene | 9.872 | 104 | 1723 | 0.051 | ppbv | # | 25 |
| 62) Isopropylbenzene | 10.536 | 105 | 10359 | 0.101 | ppbv | | 97 |
| 63) 1,1,2,2-Tetrachloroethane | 9.959 | 83 | 1910 | 0.046 | ppbv | # | 25 |
| 64) n-propylbenzene | 10.989 | 120 | 2375 | 0.090 | ppbv | # | 62 |
| 65) tert-Butylbenzene | 11.526 | 119 | 9418 | 0.099 | ppbv | | 94 |
| 66) Benzyl Chloride | 11.617 | 91 | 844 | 0.084 | ppbv | # | 86 |
| 67) sec-Butylbenzene | 11.765 | 105 | 13775 | 0.105 | ppbv | | 96 |
| 69) p-Isopropyltoluene | 11.924 | 119 | 11366 | 0.100 | ppbv | | 98 |
| 70) n-Butylbenzene | 12.280 | 91 | 10697 | 0.092 | ppbv | | 97 |
| 71) 2-Chlorotoluene | 10.898 | 91 | 8347 | 0.105 | ppbv | | 98 |
| 72) 4-Ethyltoluene | 11.125 | 105 | 8579 | 0.101 | ppbv | # | 84 |
| 73) 1,3,5-Trimethylbenzene | 11.202 | 105 | 8407 | 0.113 | ppbv | | 91 |
| 74) 1,2,4-Trimethylbenzene | 11.536 | 105 | 10341 | 0.121 | ppbv | # | 95 |
| 75) 1,3-Dichlorobenzene | 11.604 | 146 | 4426 | 0.094 | ppbv | | 94 |
| 76) 1,4-Dichlorobenzene | 11.672 | 146 | 4552 | 0.097 | ppbv | | 95 |
| 77) 1,2-Dichlorobenzene | 11.947 | 146 | 4867 | 0.106 | ppbv | | 93 |
| 78) Hexachloro-1,3-Butadiene | 13.882 | 225 | 4755 | 0.102 | ppbv | | 94 |
| 79) Naphthalene | 13.513 | 128 | 7882 | 0.084 | ppbv | # | 92 |
| 80) Naphthalene,2-methyl- | 14.471 | 142 | 2174 | 0.048 | ppbv | # | 78 |
| 81) 1,2,4-Trichlorobenzene | 13.442 | 180 | 2557 | 0.059 | ppbv | | 98 |

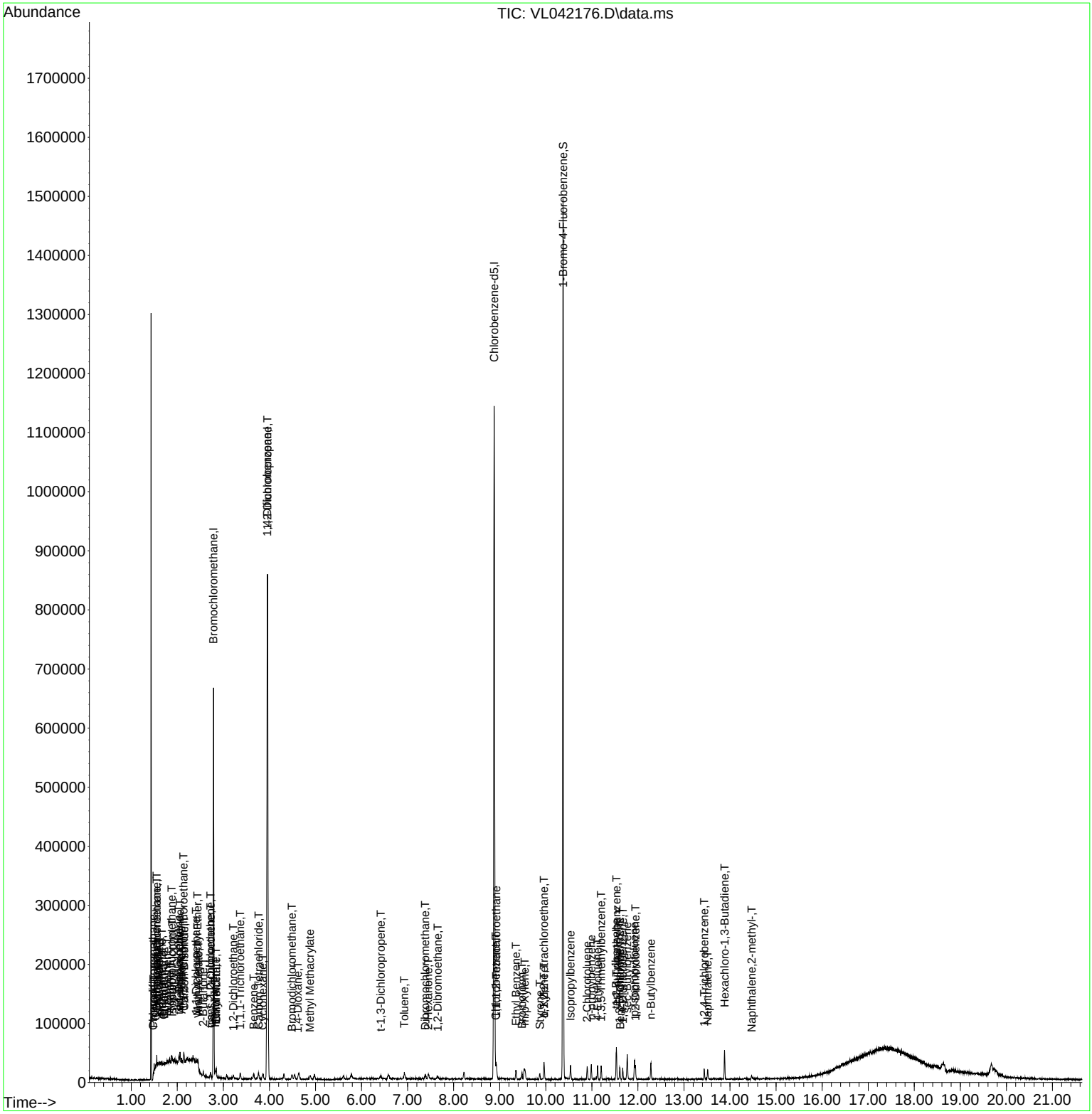
(#) = qualifier out of range (m) = manual integration (+) = signals summed

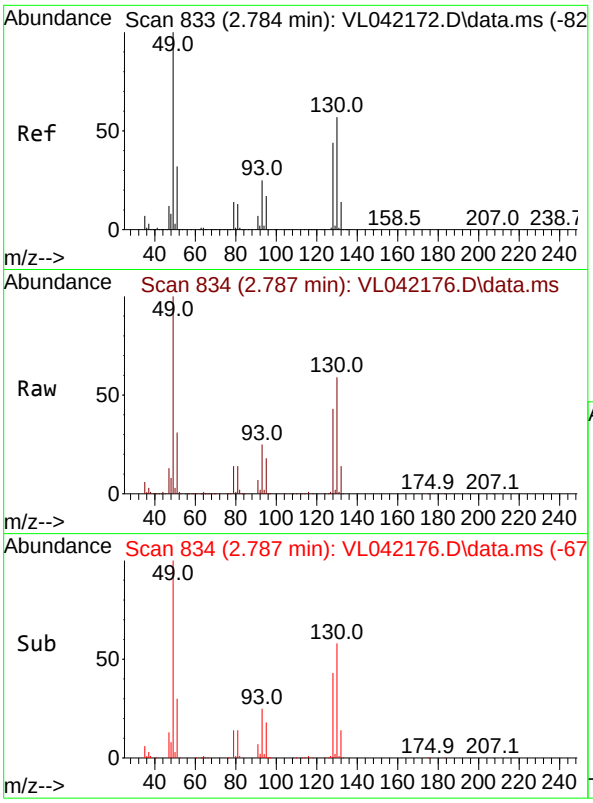
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042176.D
Acq On : 27 Mar 2025 10:32
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Quant Time: Mar 28 01:35:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration



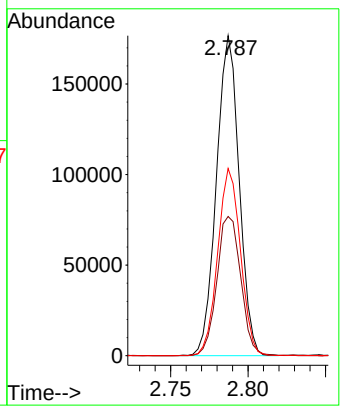


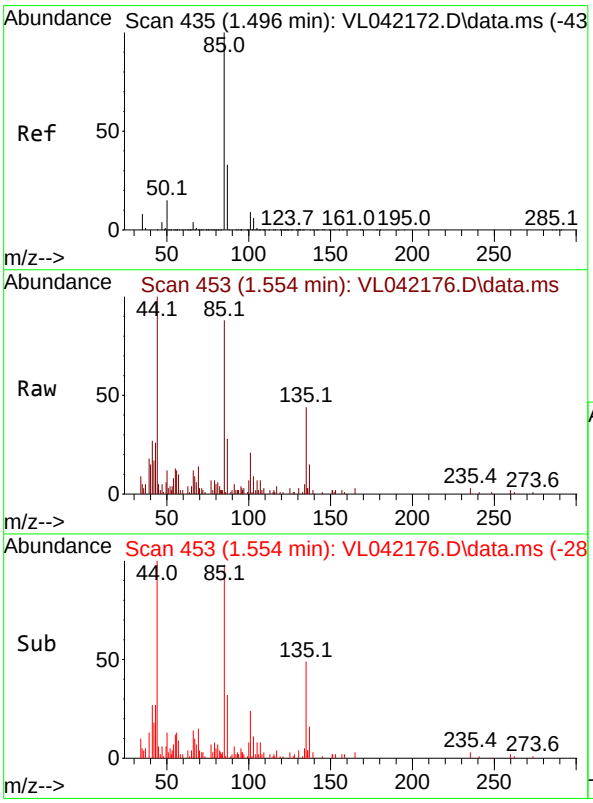

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion: 49 Resp: 180740

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 45.6 | 22.9 | 68.5 |
| 130 | 58.5 | 28.8 | 86.4 |

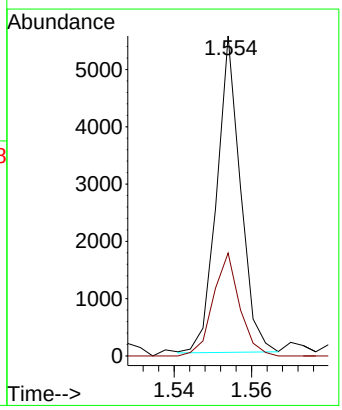


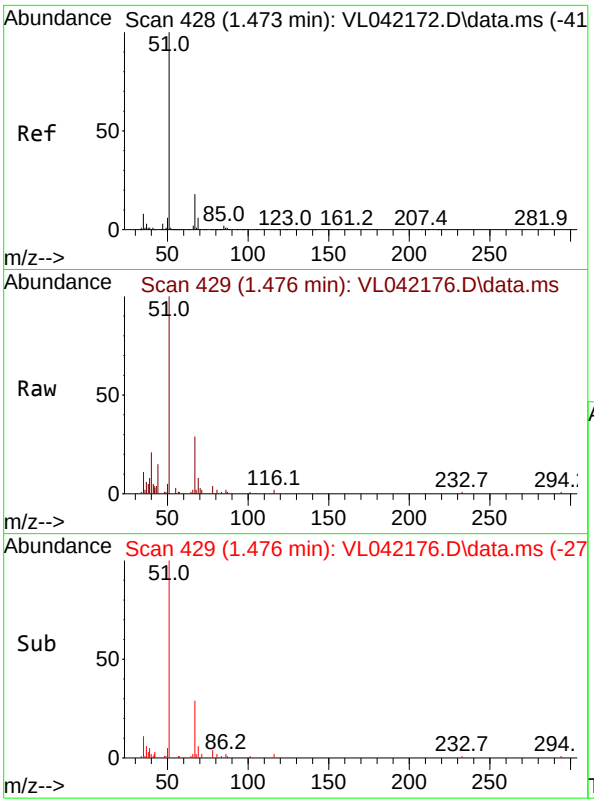




#2
Dichlorodifluoromethane
Concen: 0.088 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.058 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 85 Resp: 2353

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.5 | 26.1 | 39.1 |



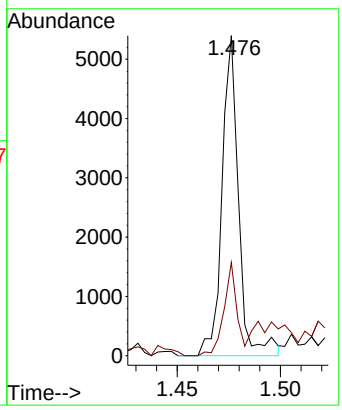


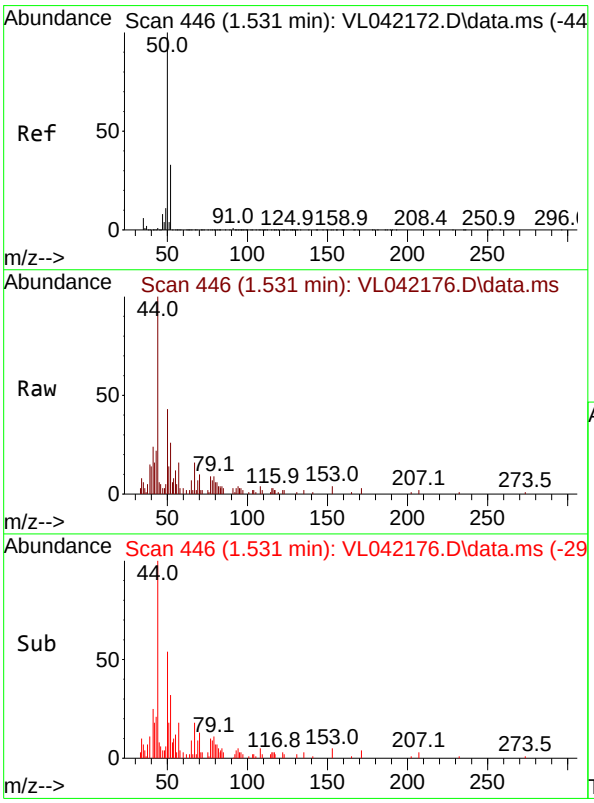

#3
Chlorodifluoromethane
Concen: 0.110 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion: 51 Resp: 3006

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 45.8 | 15.0 | 22.6# |

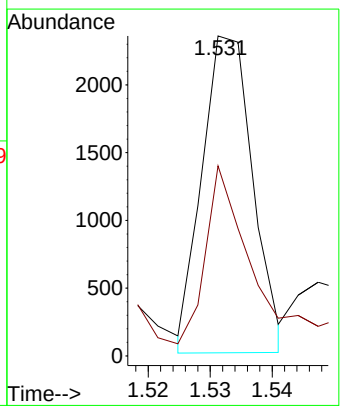


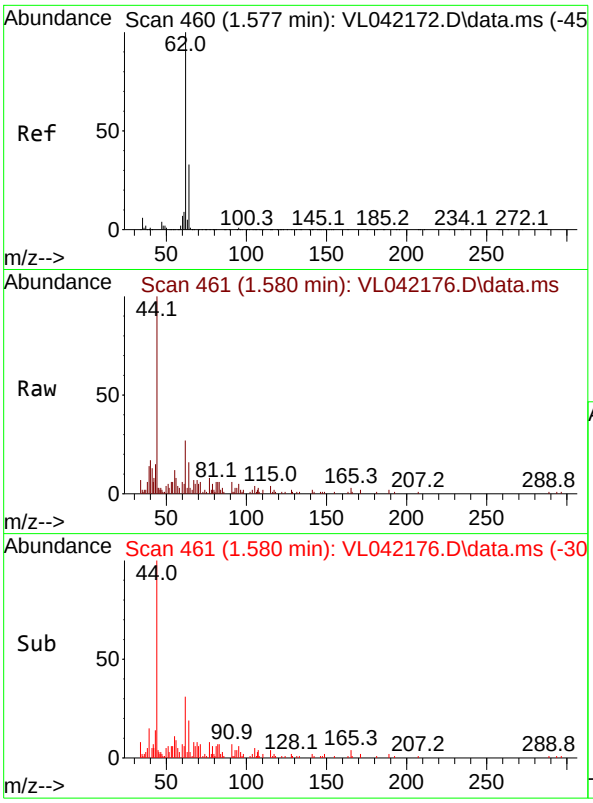




#4
Chloromethane
Concen: 0.122 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 50 Resp: 1330

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 59.3 | 26.1 | 39.1# |



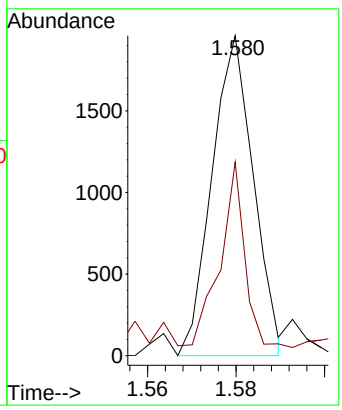


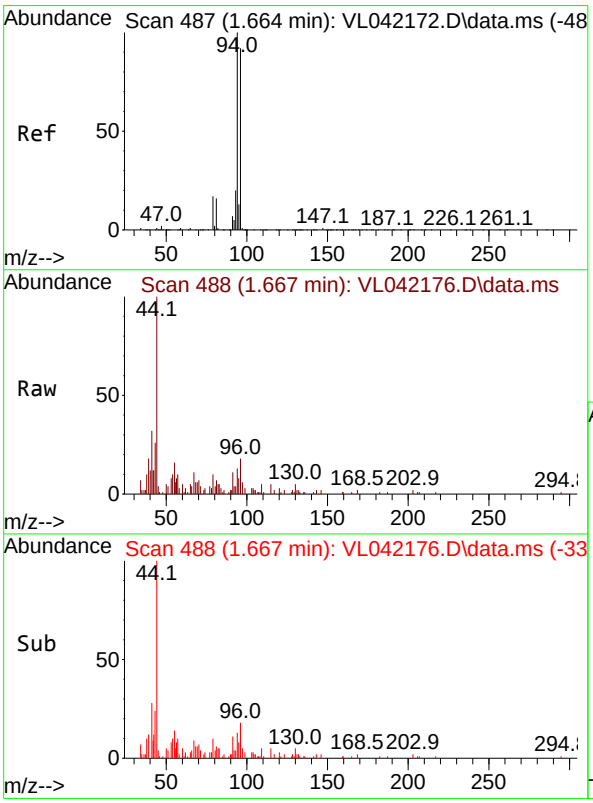

#5
Vinyl Chloride
Concen: 0.115 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion: 62 Resp: 1274

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 66.4 | 26.6 | 40.0# |

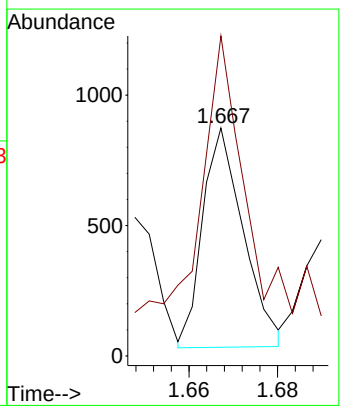


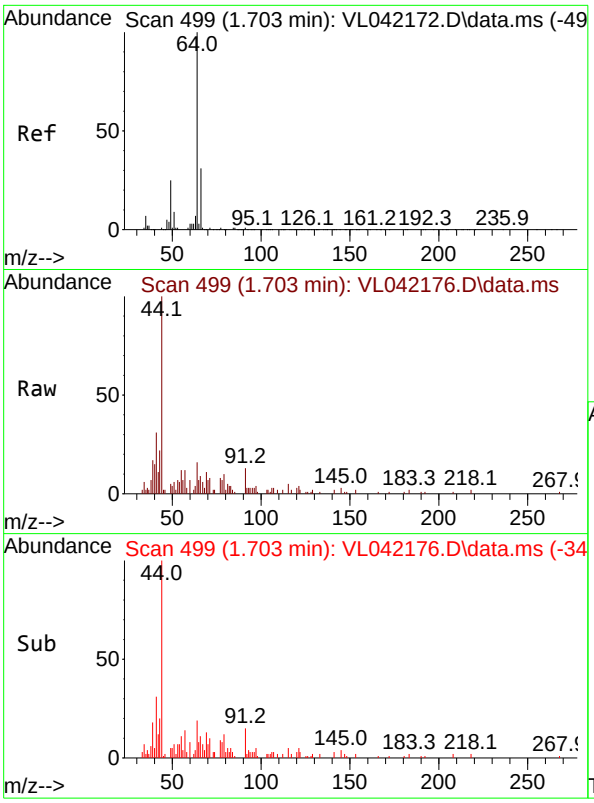




#6
Bromomethane
Concen: 0.109 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 94 Resp: 537

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 116.6 | 73.1 | 109.7# |



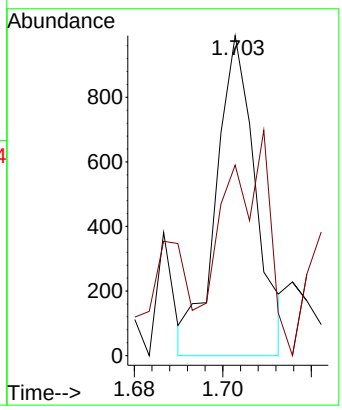


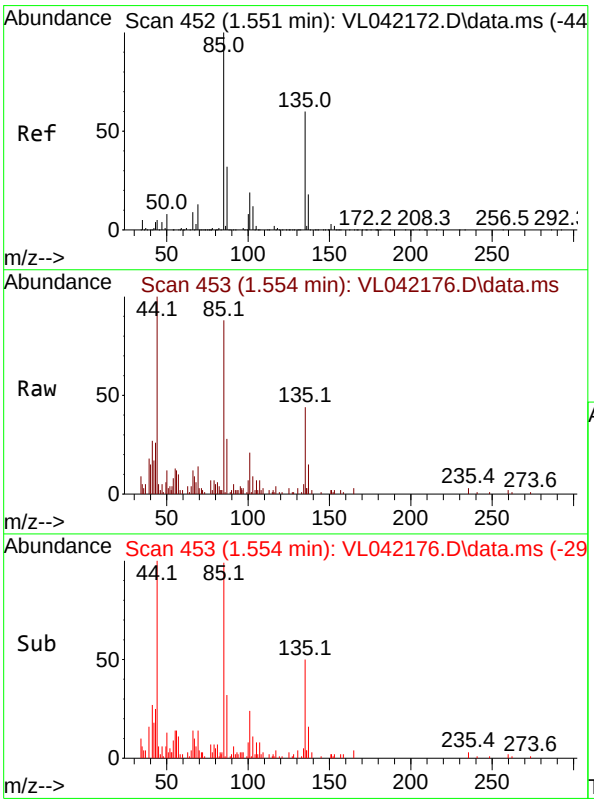

#7
Chloroethane
Concen: 0.141 ppbv
RT: 1.703 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion: 64 Resp: 616

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 59.5 | 25.2 | 37.8# |

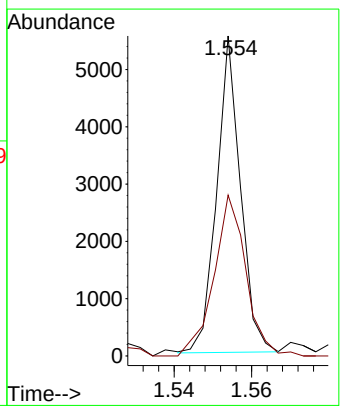


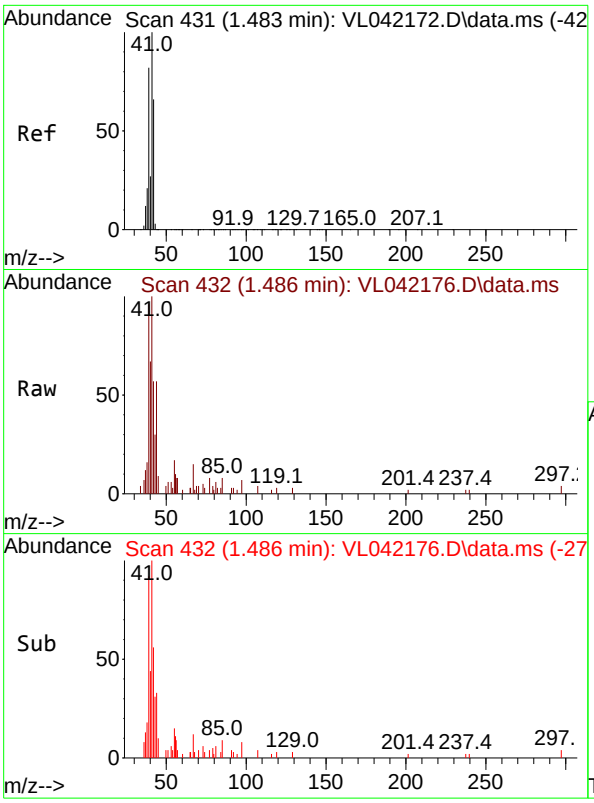




#8
Dichlorotetrafluoroethane
Concen: 0.104 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 85 Resp: 2353

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 71.7 | 52.4 | 78.6 |



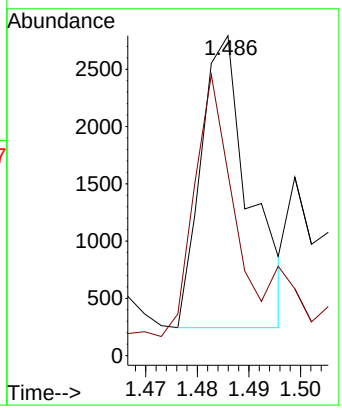


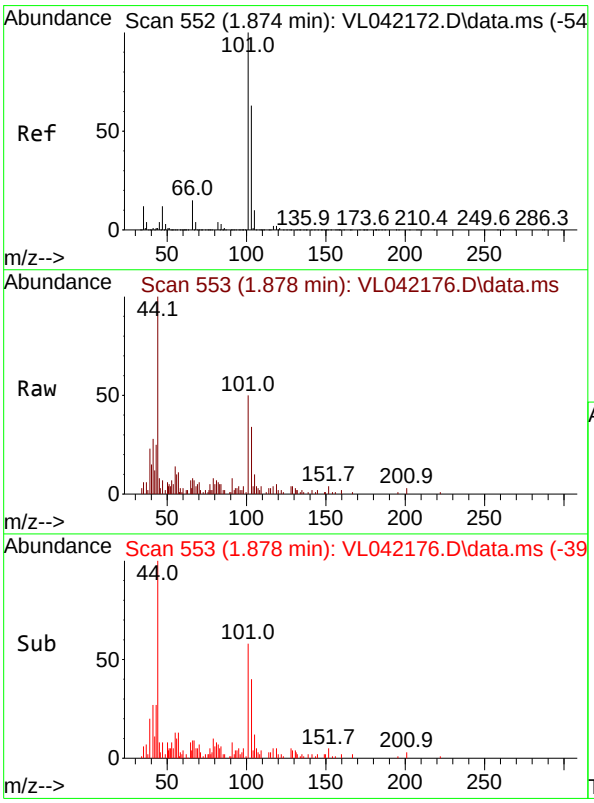

#9
Propene
Concen: 0.135 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion: 41 Resp: 1664

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 115.3 | 55.4 | 83.2# |

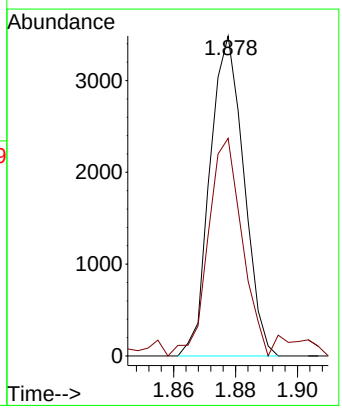


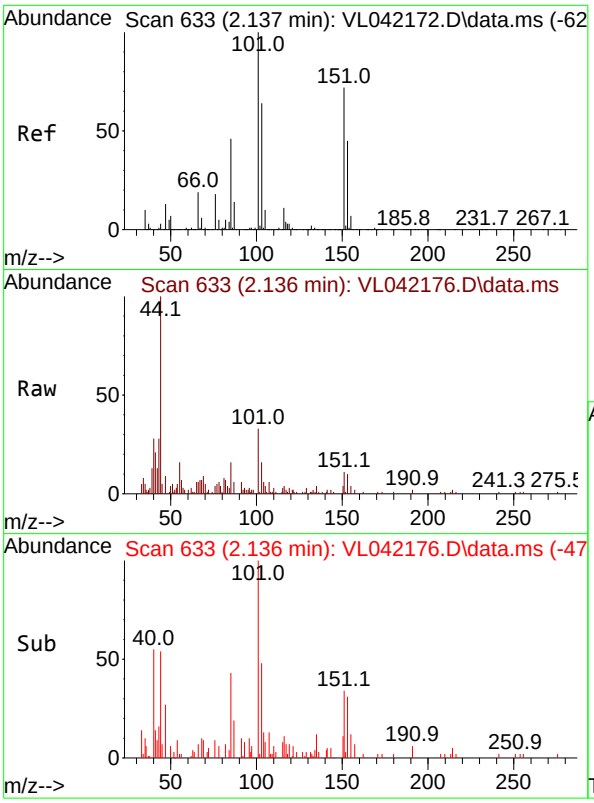




#11
Trichlorofluoromethane
Concen: 0.102 ppbv
RT: 1.878 min Scan# 553
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion:101 Resp: 2644

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.7 | 50.2 | 75.2 |



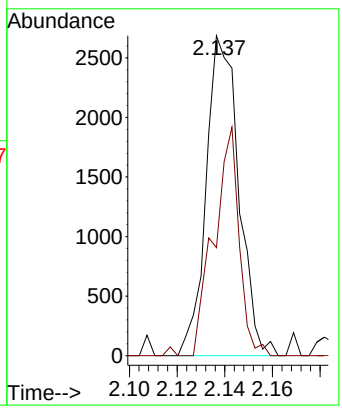


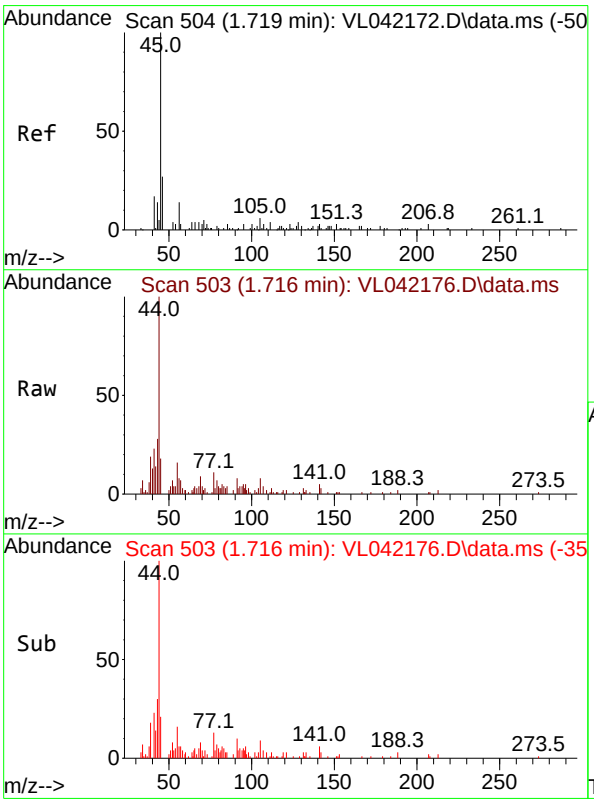

#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.120 ppbv
RT: 2.136 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion:101 Resp: 2551

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 55.7 | 57.1 | 85.7# |

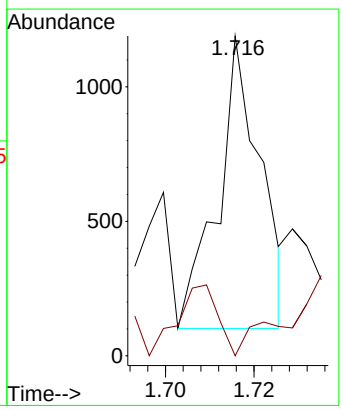


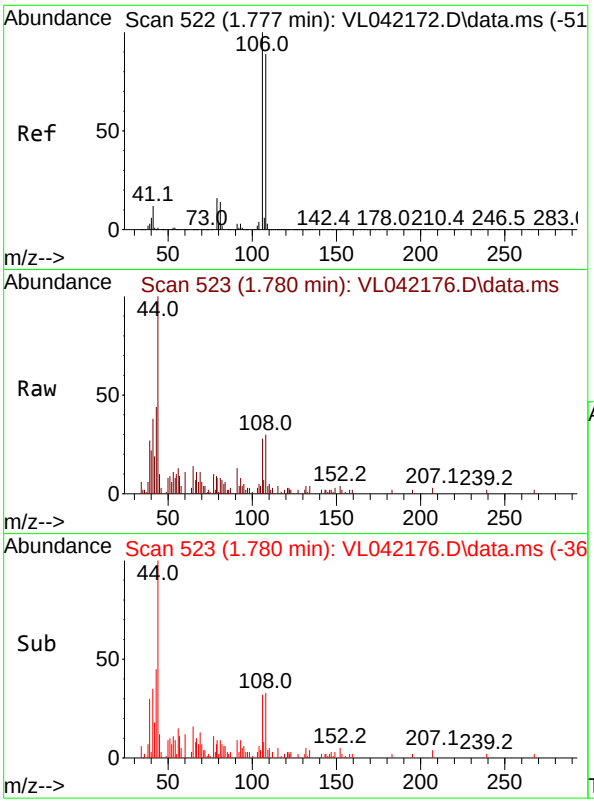




#13
Ethanol
Concen: 0.750 ppbv
RT: 1.716 min Scan# 503
Delta R.T. -0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 45 Resp: 721

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 22.9 | 20.2 | 80.8 |



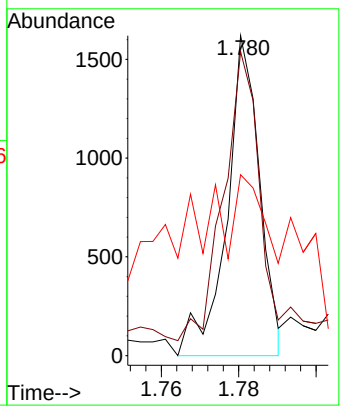


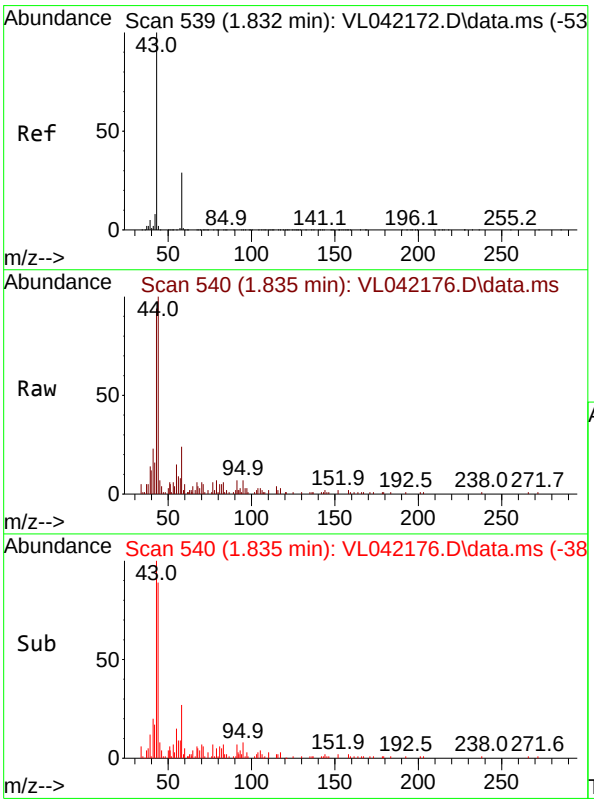

#14
Bromoethene
Concen: 0.117 ppbv
RT: 1.780 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion:108 Resp: 956

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 106 | 177.0 | 86.8 | 130.2# |
| 79 | 120.6 | 15.0 | 22.6# |

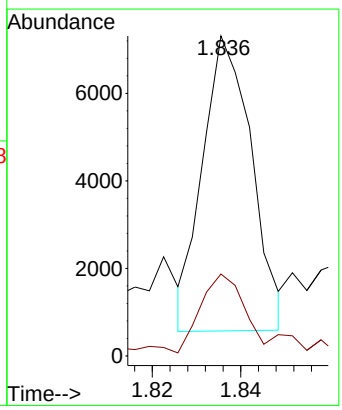


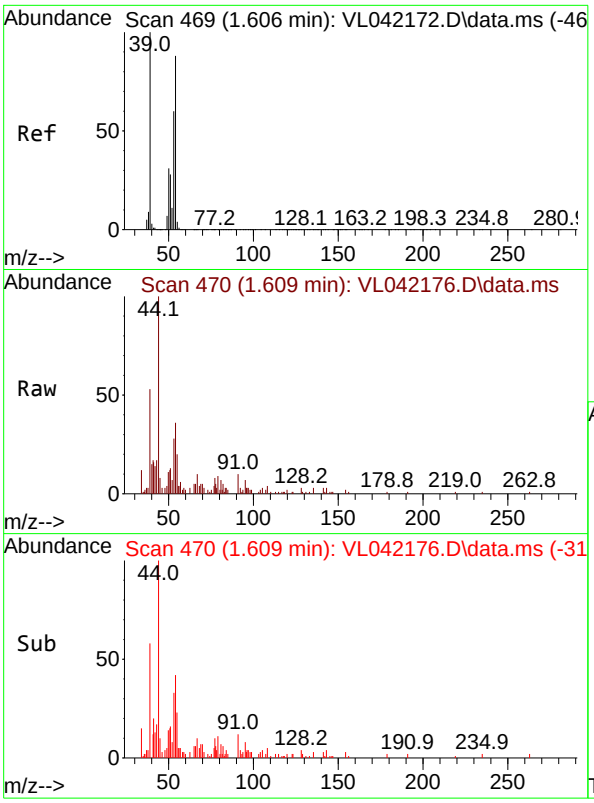




#15
Acetone
Concen: 0.205 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 43 Resp: 5179

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 33.1 | 23.2 | 34.8 |



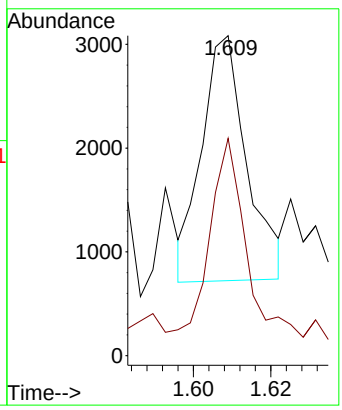


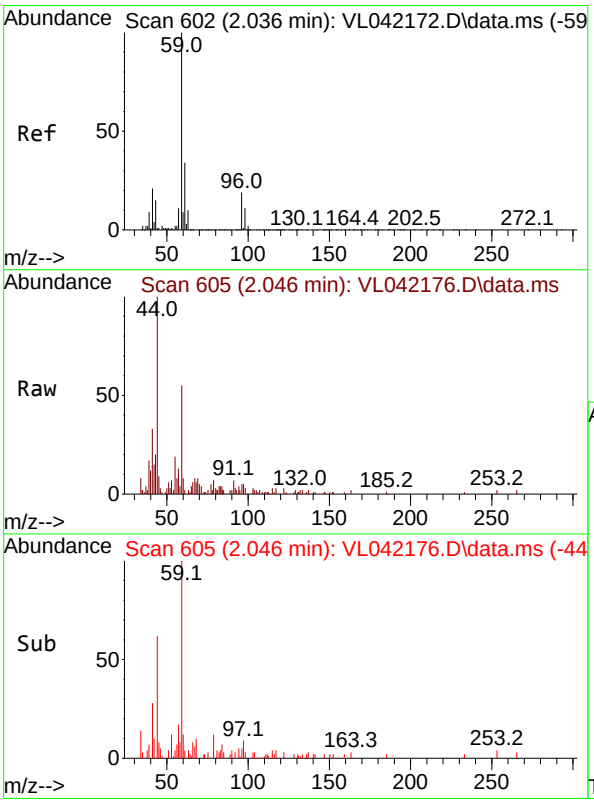

#16
1,3-Butadiene
Concen: 0.168 ppbv
RT: 1.609 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion: 39 Resp: 1912

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 70.7 | 60.7 | 91.1 |

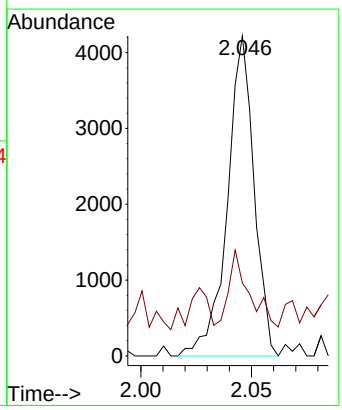


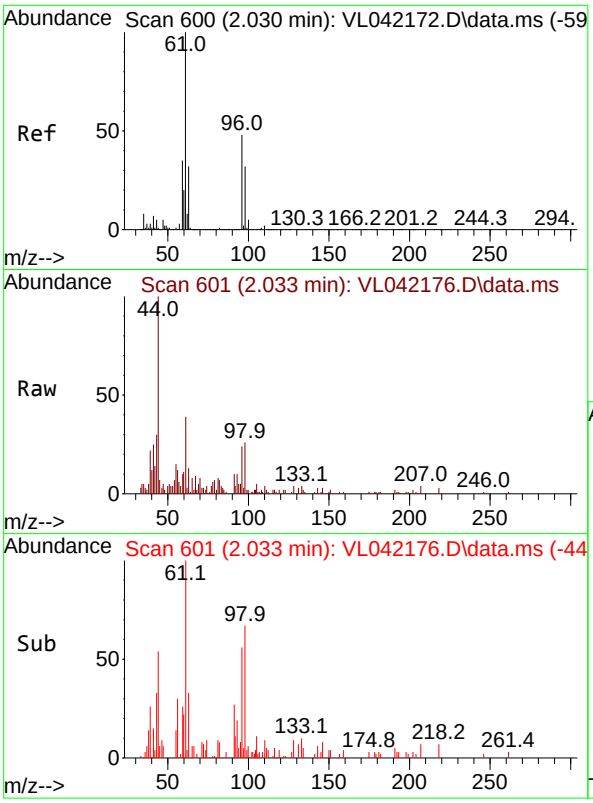




#17
tert-Butyl alcohol
Concen: 0.113 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.010 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 59 Resp: 3546

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 37.8 | 8.9 | 13.3# |



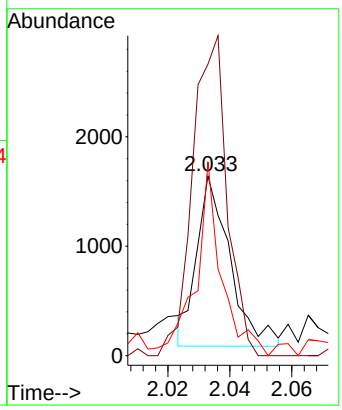


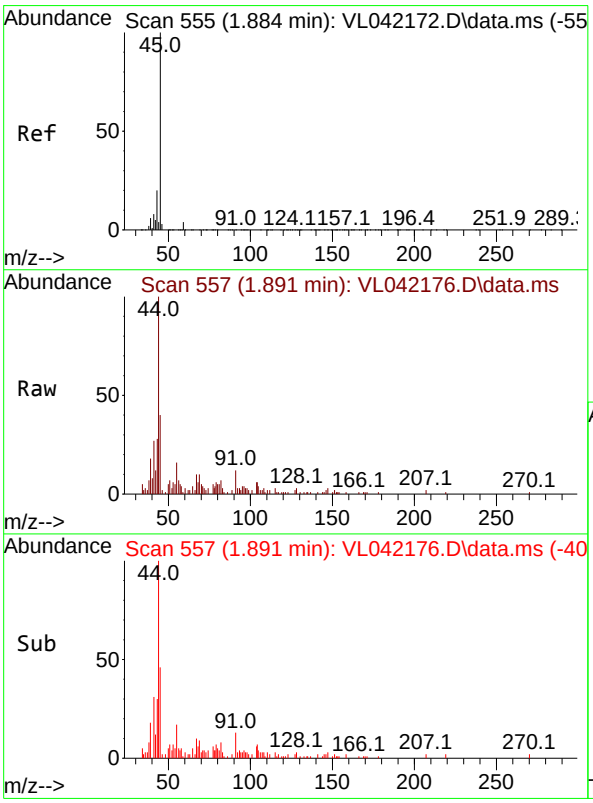

#18
1,1-Dichloroethene
Concen: 0.116 ppbv
RT: 2.033 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion: 96 Resp: 1155

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 179.9 | 167.6 | 251.4 |
| 98 | 112.6 | 53.5 | 80.3# |

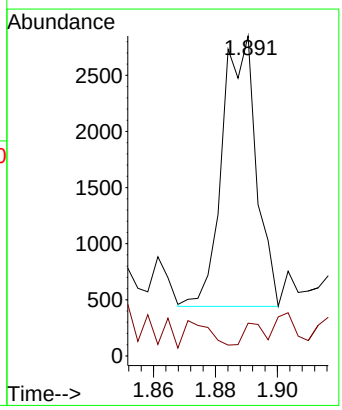


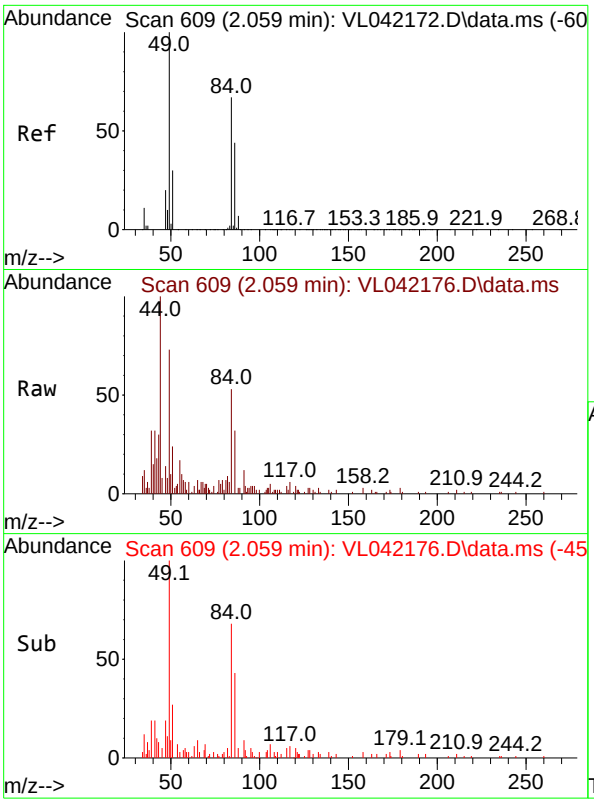




#19
Isopropyl Alcohol
Concen: 0.129 ppbv
RT: 1.891 min Scan# 557
Delta R.T. 0.006 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 45 Resp: 1838

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 12.5 | 36.9 | 55.3# |



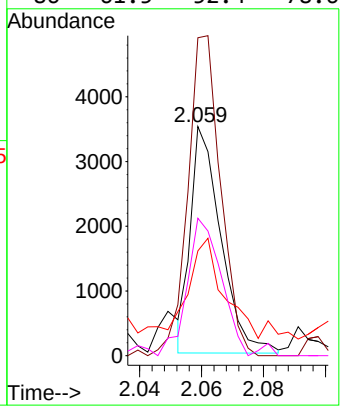


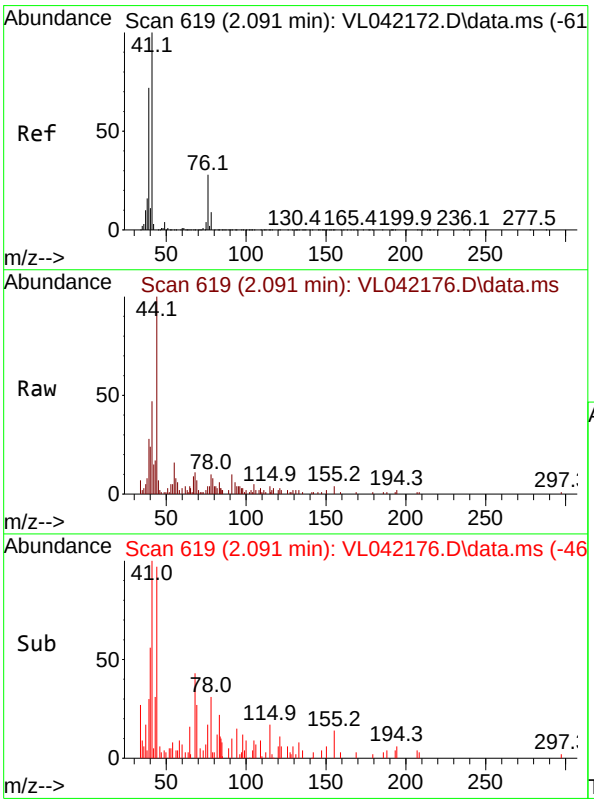

#20
Methylene Chloride
Concen: 0.254 ppbv
RT: 2.059 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion: 84 Resp: 2388

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 132.5 | 120.2 | 180.4 |
| 51 | 37.3 | 37.4 | 56.0# |
| 86 | 61.5 | 52.4 | 78.6 |

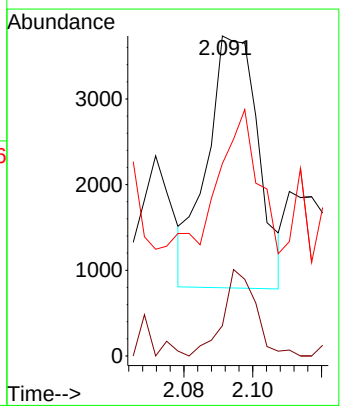


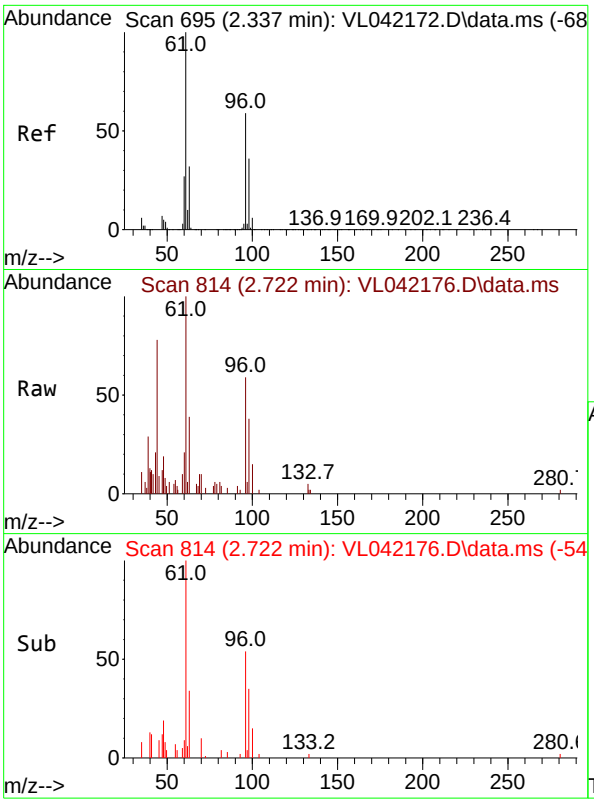




#21
Allyl Chloride
Concen: 0.171 ppbv
RT: 2.091 min Scan# 619
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 41 Resp: 3040

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 21.8 | 24.1 | 36.1# |
| 39 | 98.7 | 61.1 | 91.7# |



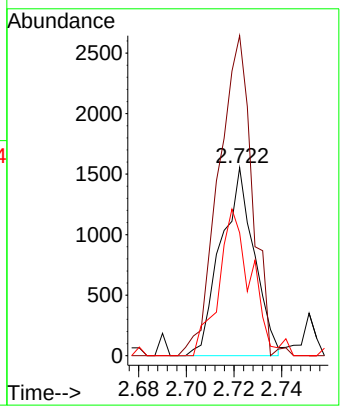


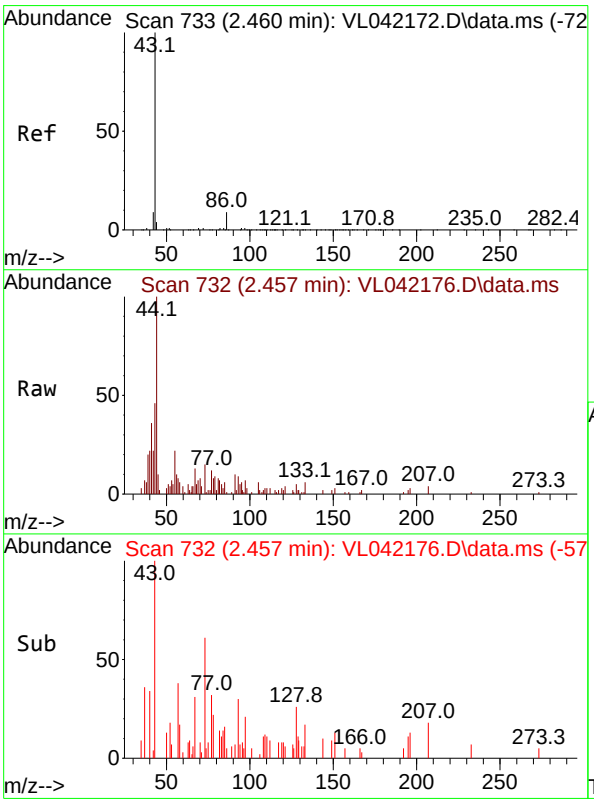

#22
trans-1,2-Dichloroethene
Concen: 0.130 ppbv
RT: 2.722 min Scan# 8
Delta R.T. 0.385 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion: 96 Resp: 1512

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 170.3 | 136.6 | 204.8 |
| 98 | 65.4 | 49.4 | 74.2 |

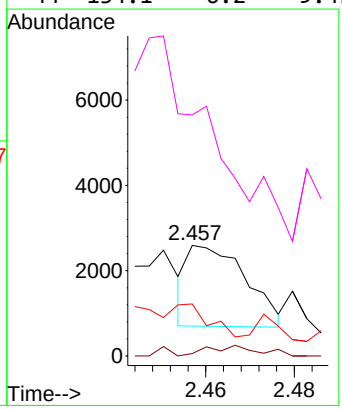


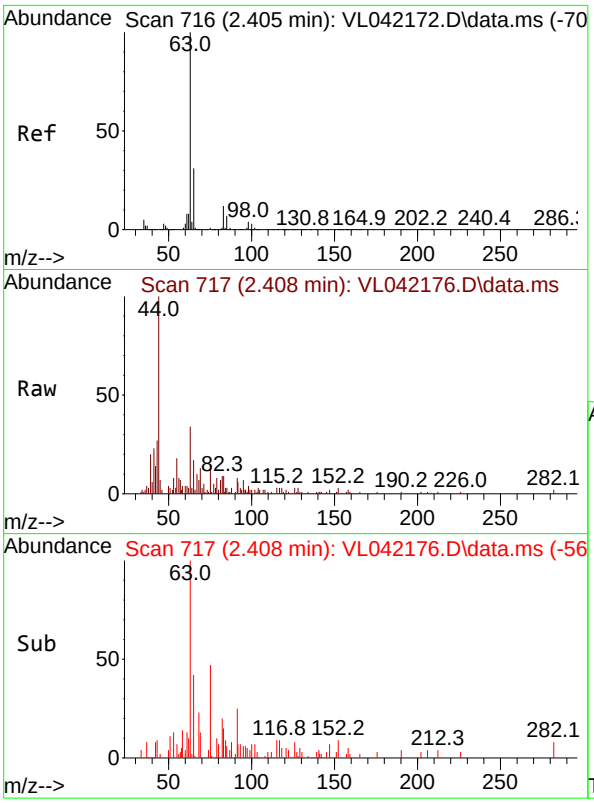




#23
Vinyl Acetate
Concen: 0.166 ppbv
RT: 2.457 min Scan# 732
Delta R.T. -0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 43 Resp: 1746

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 3.5 | 5.5 | 8.3# |
| 42 | 32.0 | 8.6 | 13.0# |
| 44 | 134.1 | 6.2 | 9.4# |



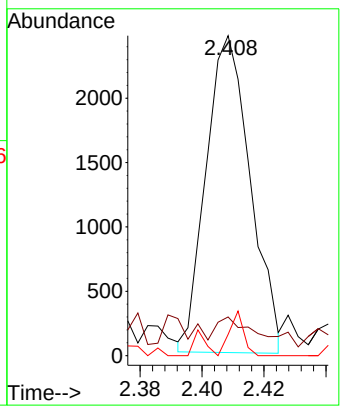


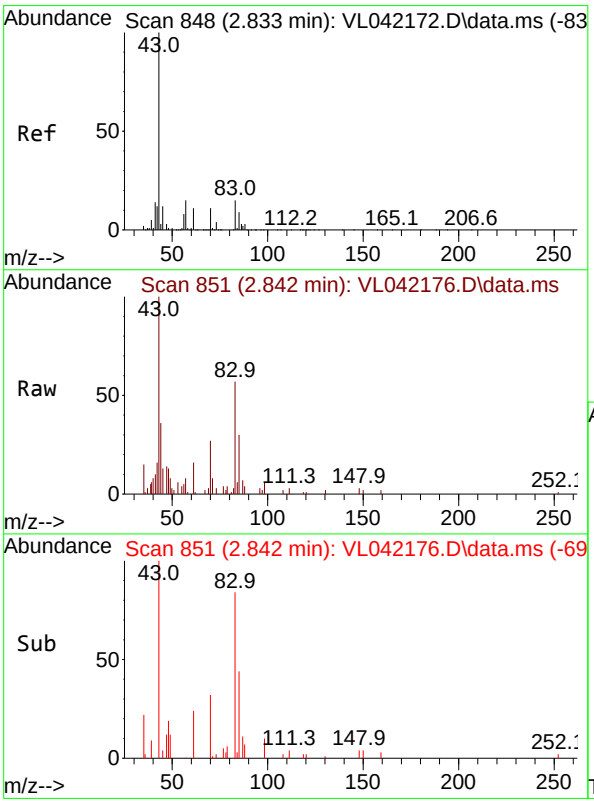

#24
1,1-Dichloroethane
Concen: 0.114 ppbv
RT: 2.408 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion: 63 Resp: 2446

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.3 | 2.3 | 6.8 |
| 100 | 6.9 | 1.6 | 4.7# |

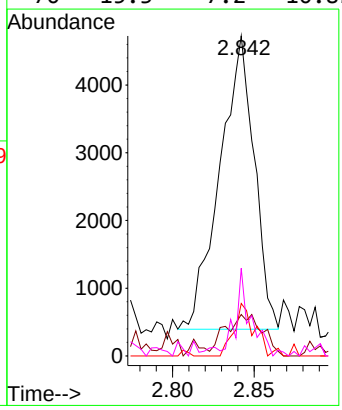


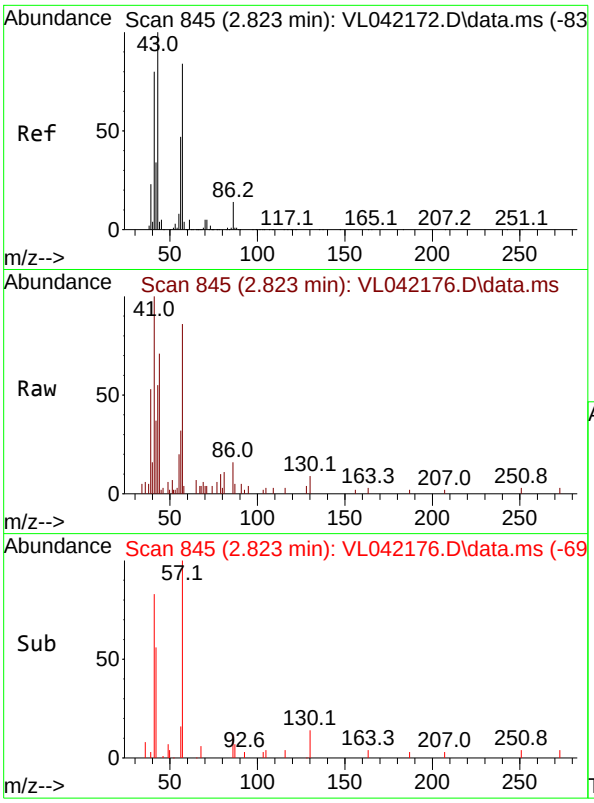




#25
Ethyl Acetate
Concen: 0.097 ppbv
RT: 2.842 min Scan# 851
Delta R.T. 0.010 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 43 Resp: 6359

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 22.8 | 8.2 | 12.2# |
| 61 | 11.2 | 7.3 | 10.9# |
| 70 | 15.3 | 7.2 | 10.8# |



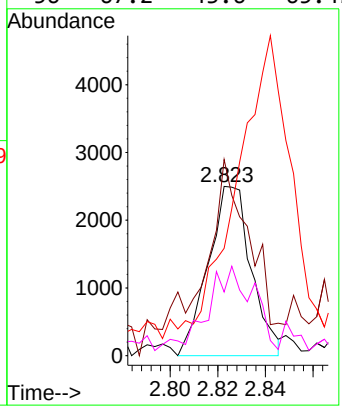


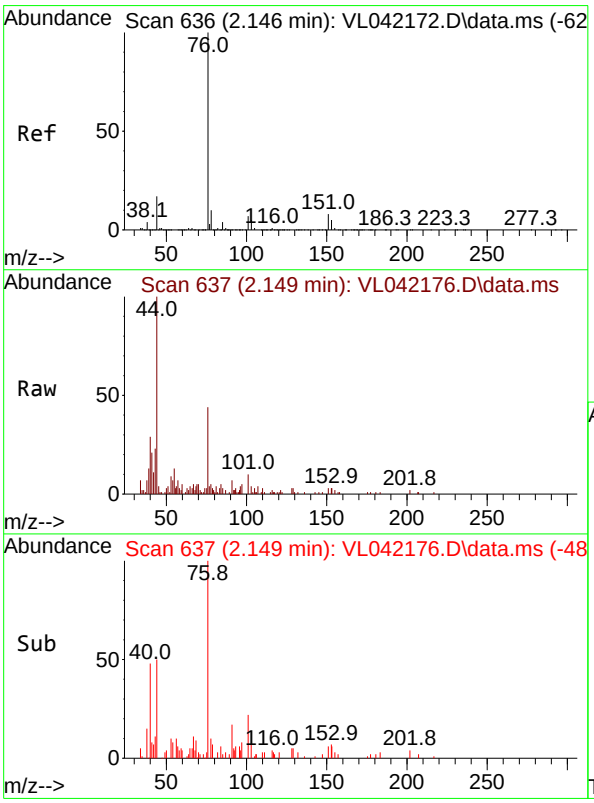

#26
Hexane
Concen: 0.123 ppbv
RT: 2.823 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion: 57 Resp: 3126

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 96.0 | 76.6 | 114.8 |
| 43 | 0.0 | 207.8 | 311.8# |
| 56 | 67.2 | 43.6 | 65.4# |

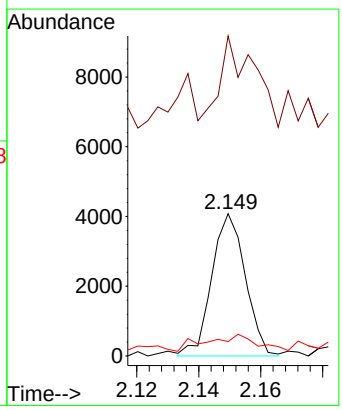


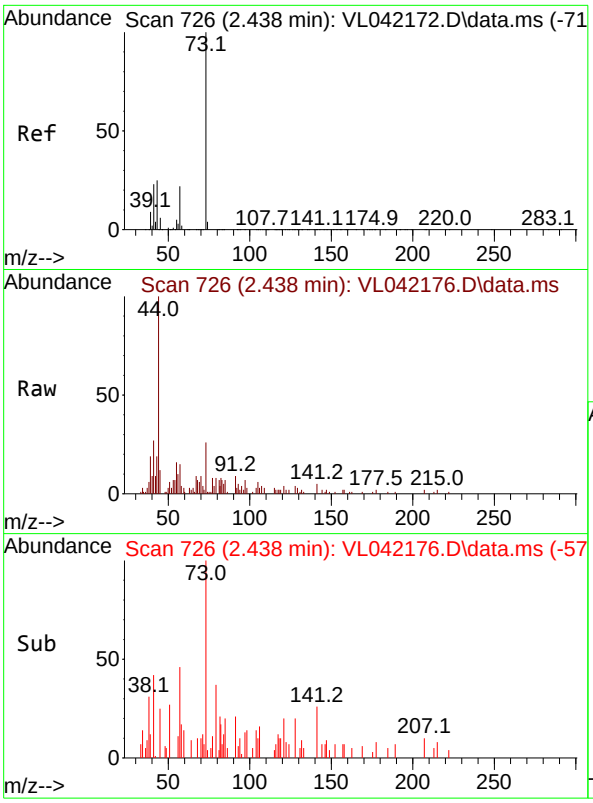




#27
Carbon Disulfide
Concen: 0.113 ppbv
RT: 2.149 min Scan# 637
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 76 Resp: 3075

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 436.3 | 14.7 | 22.1# |
| 78 | 28.7 | 9.3 | 13.9# |



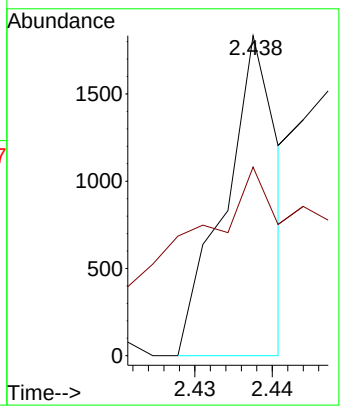


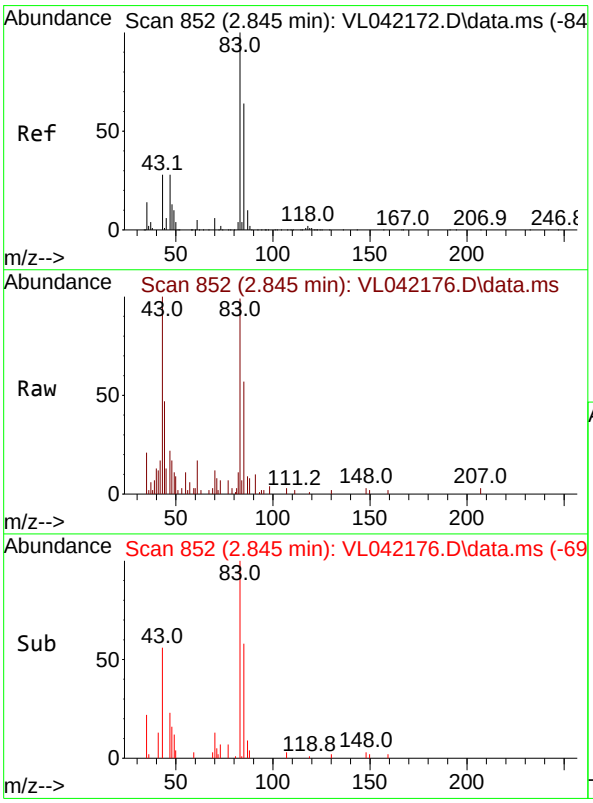

#28
Methyl tert-Butyl Ether
Concen: 0.055 ppbv
RT: 2.438 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion: 73 Resp: 875

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 0.0 | 20.5 | 30.7# |

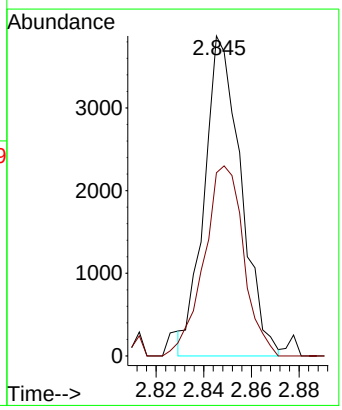


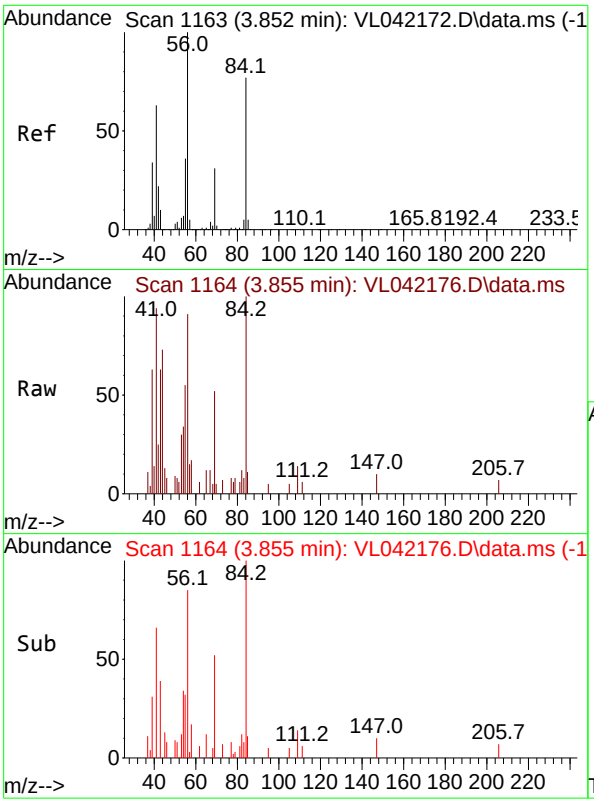




#29
Chloroform
Concen: 0.111 ppbv
RT: 2.845 min Scan# 852
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 83 Resp: 4120

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 58.4 | 51.4 | 77.2 |



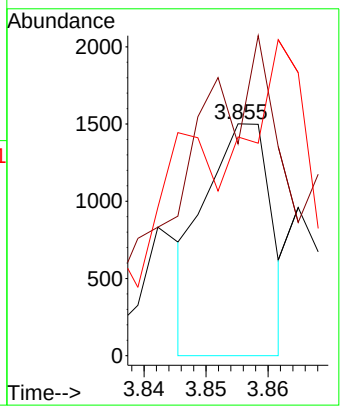


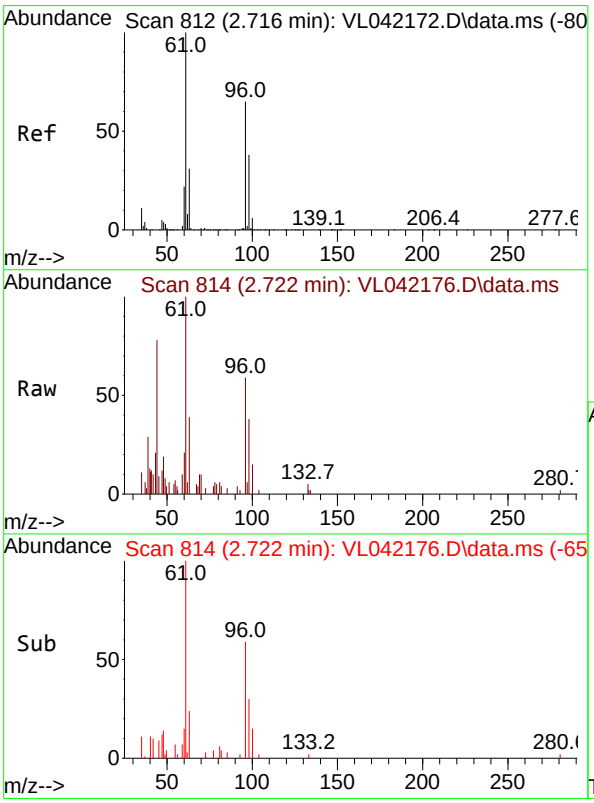

#30
Cyclohexane
Concen: 0.051 ppbv
RT: 3.855 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion: 84 Resp: 1113

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 0.0 | 102.8 | 154.2# |
| 41 | 0.0 | 66.5 | 99.7# |

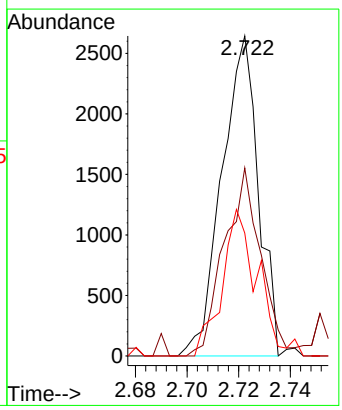


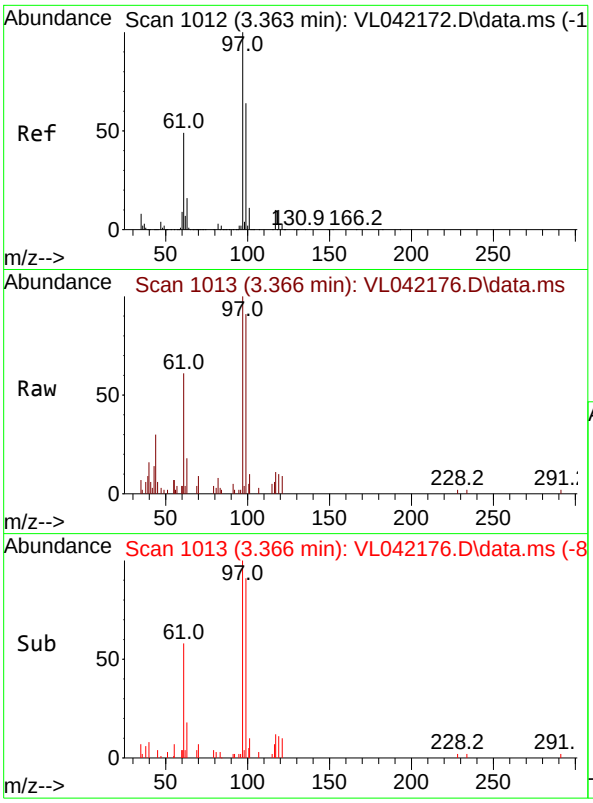




#31
cis-1,2-Dichloroethene
Concen: 0.101 ppbv
RT: 2.722 min Scan# 814
Delta R.T. 0.006 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 61 Resp: 2587

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 58.7 | 51.8 | 77.8 |
| 98 | 38.4 | 30.6 | 46.0 |



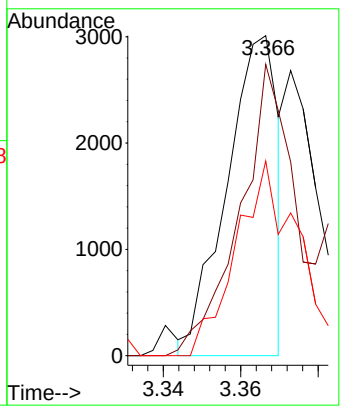


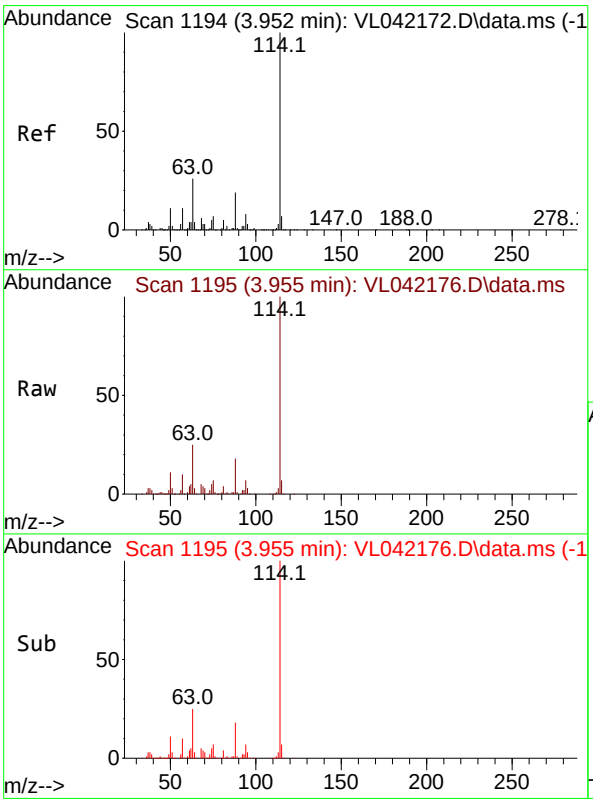

#32
1,1,1-Trichloroethane
Concen: 0.065 ppbv
RT: 3.366 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion: 97 Resp: 2773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 111.5 | 51.5 | 77.3# |
| 61 | 73.8 | 38.7 | 58.1# |

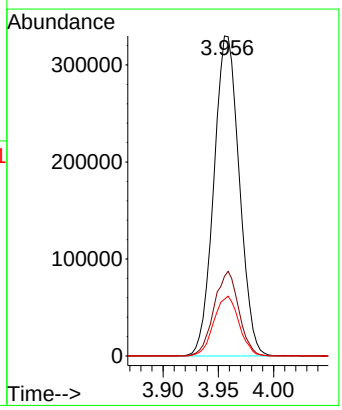


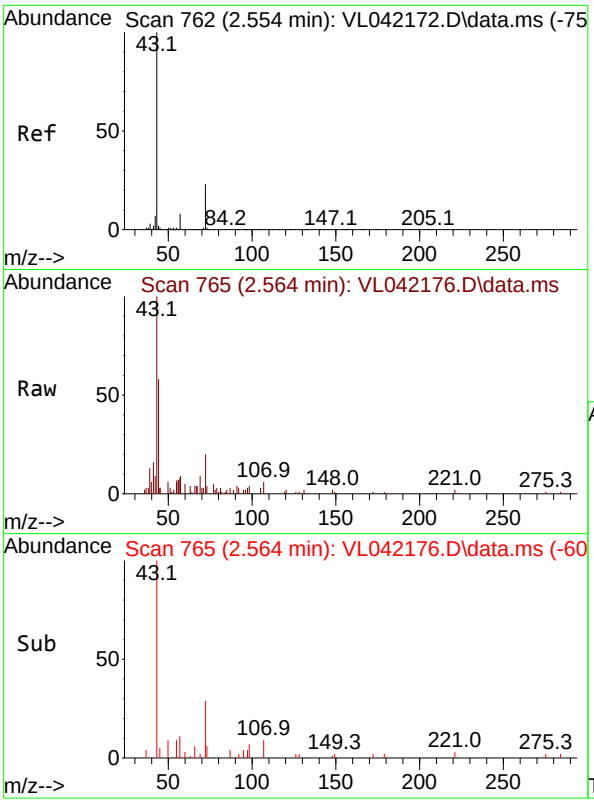




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion:114 Resp: 528028

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.8 | 20.7 | 31.1 |
| 88 | 18.5 | 15.0 | 22.4 |



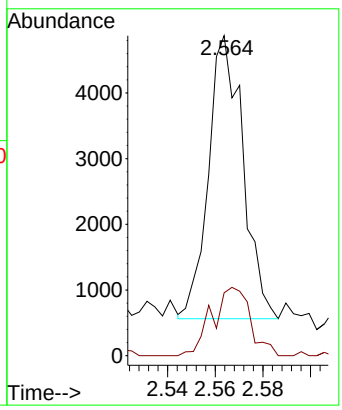


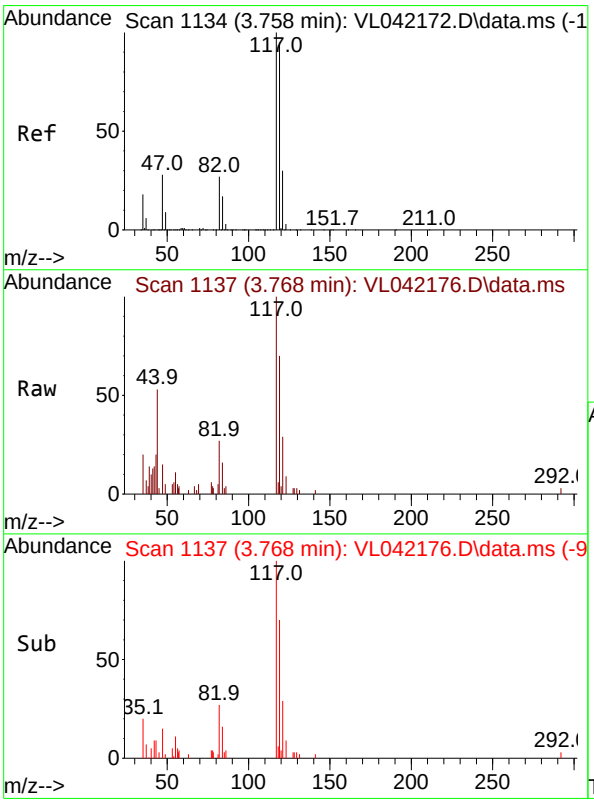

#34
2-Butanone
Concen: 0.113 ppbv
RT: 2.564 min Scan# 7
Delta R.T. 0.010 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion: 43 Resp: 4331

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 27.0 | 18.2 | 27.2 |

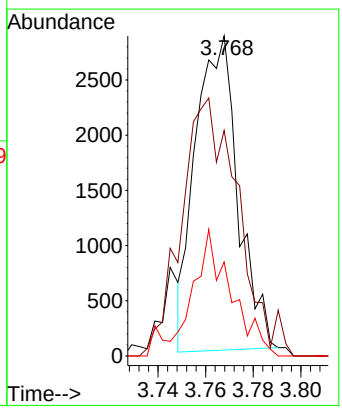


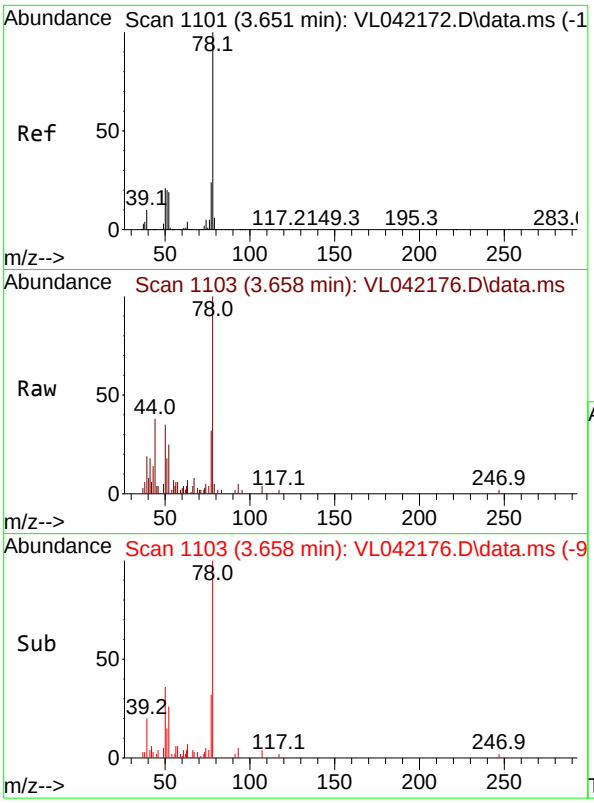




#35
Carbon Tetrachloride
Concen: 0.087 ppbv
RT: 3.768 min Scan# 1137
Delta R.T. 0.010 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion:117 Resp: 3523

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 57.7 | 76.2 | 114.2# |
| 121 | 30.1 | 24.2 | 36.4 |



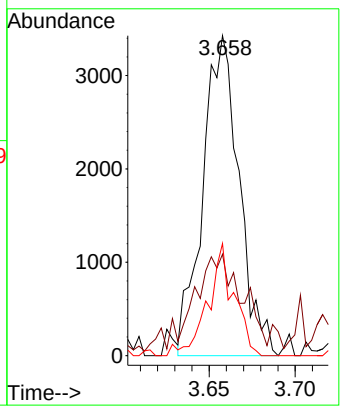


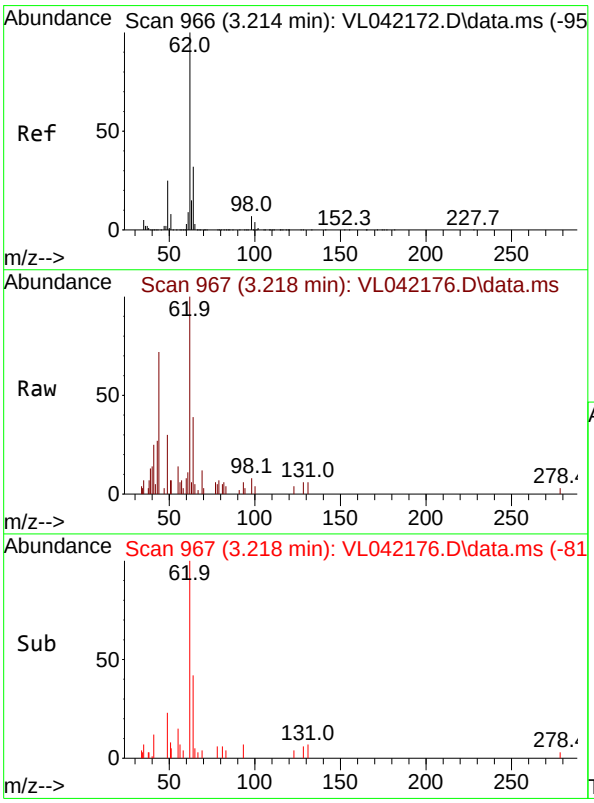

#36
Benzene
Concen: 0.096 ppbv
RT: 3.658 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion: 78 Resp: 5031

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 27.2 | 19.1 | 28.7 |
| 50 | 35.0 | 16.6 | 24.8# |

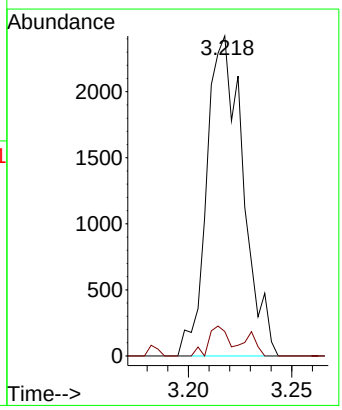


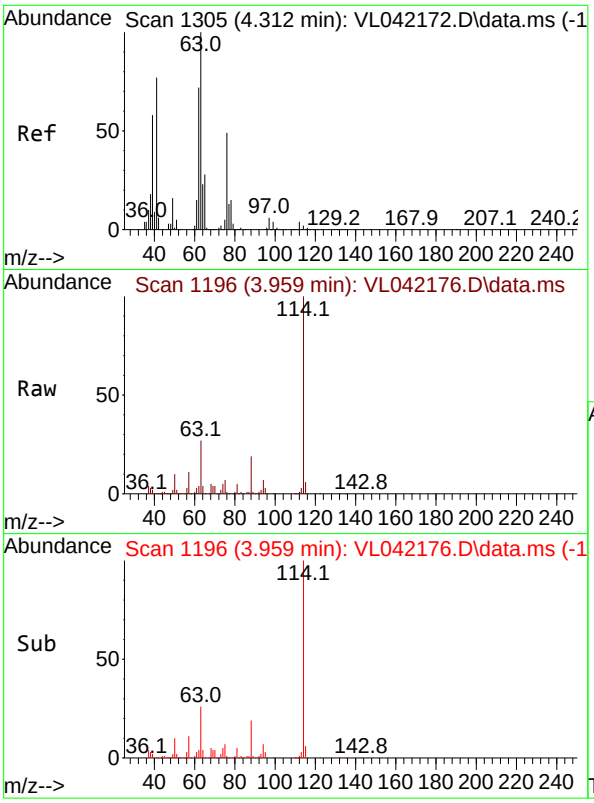




#37
1,2-Dichloroethane
Concen: 0.098 ppbv
RT: 3.218 min Scan# 967
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 62 Resp: 2942

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 7.7 | 5.4 | 8.2 |



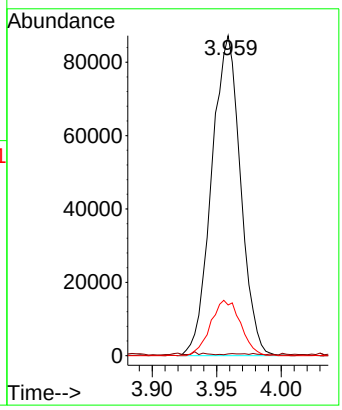


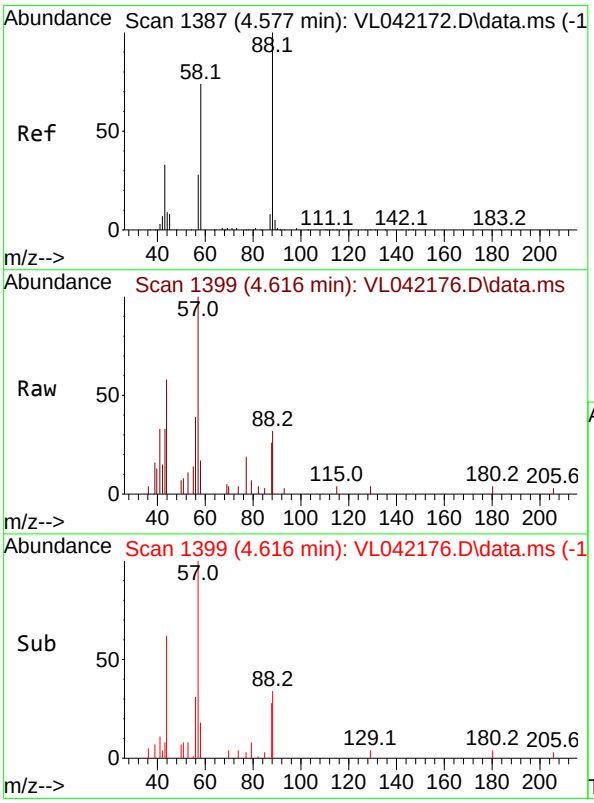

#39
1,2-Dichloropropane
Concen: 7.123 ppbv
RT: 3.959 min Scan# 1
Delta R.T. -0.353 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion: 63 Resp: 135792

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 0.3 | 61.7 | 92.5# |
| 62 | 15.9 | 57.6 | 86.4# |

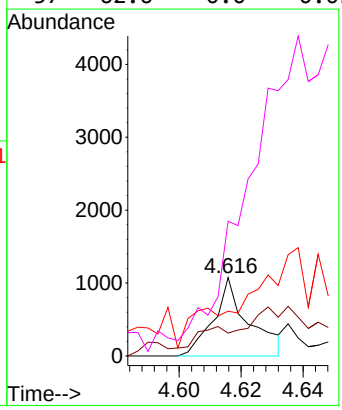


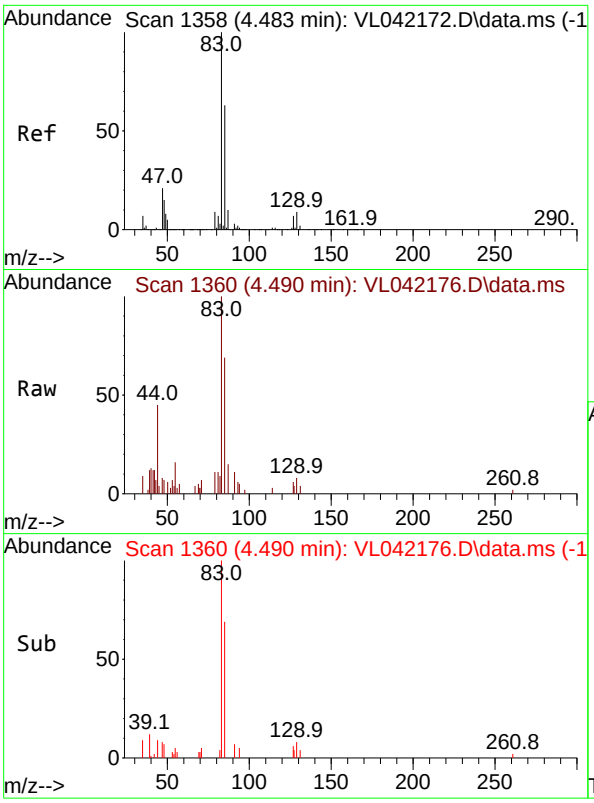




#40
1,4-Dioxane
Concen: 0.085 ppbv
RT: 4.616 min Scan# 1399
Delta R.T. 0.039 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 88 Resp: 843

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 0.0 | 62.7 | 94.1# |
| 43 | 47.9 | 23.0 | 34.4# |
| 57 | 62.6 | 0.0 | 0.0# |



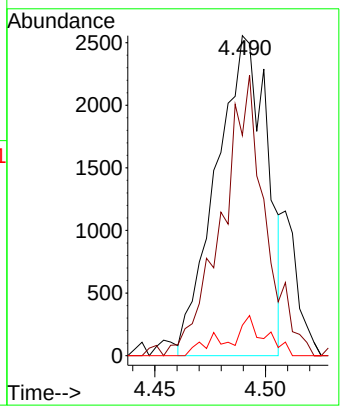


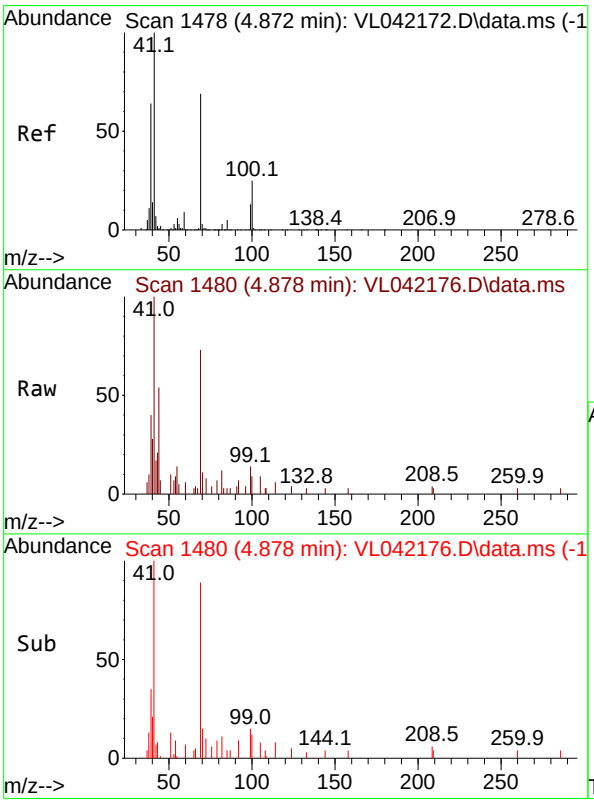

#42
Bromodichloromethane
Concen: 0.099 ppbv
RT: 4.490 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion: 83 Resp: 4103

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 67.5 | 50.5 | 75.7 |
| 127 | 9.8 | 5.9 | 8.9# |

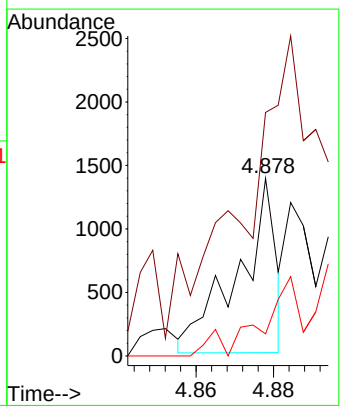


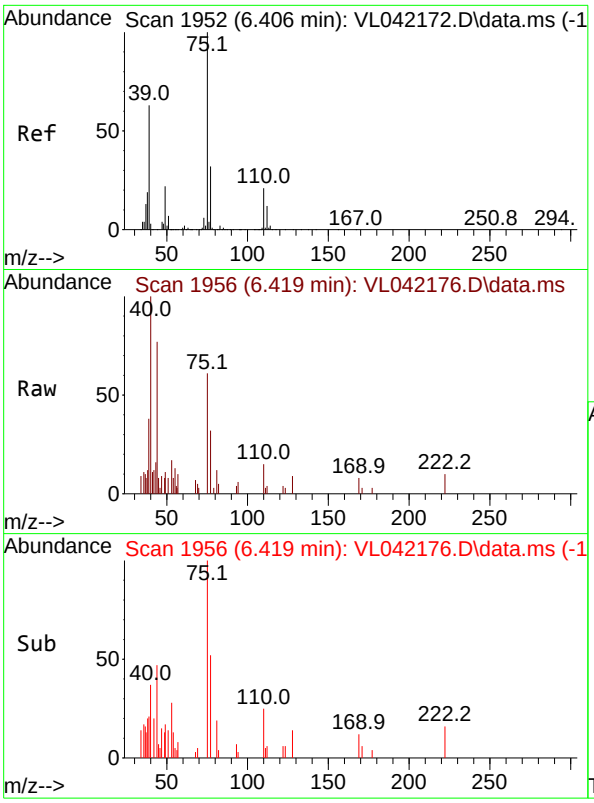




#43
Methyl Methacrylate
Concen: 0.042 ppbv
RT: 4.878 min Scan# 1480
Delta R.T. 0.006 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 69 Resp: 930

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 0.0 | 123.8 | 185.6# |
| 100 | 0.0 | 28.4 | 42.6# |



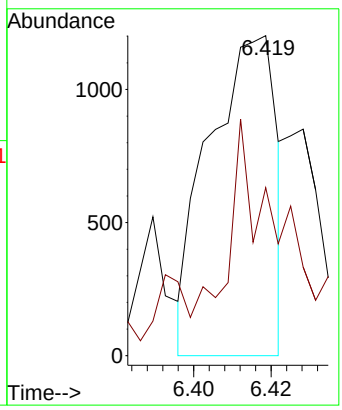


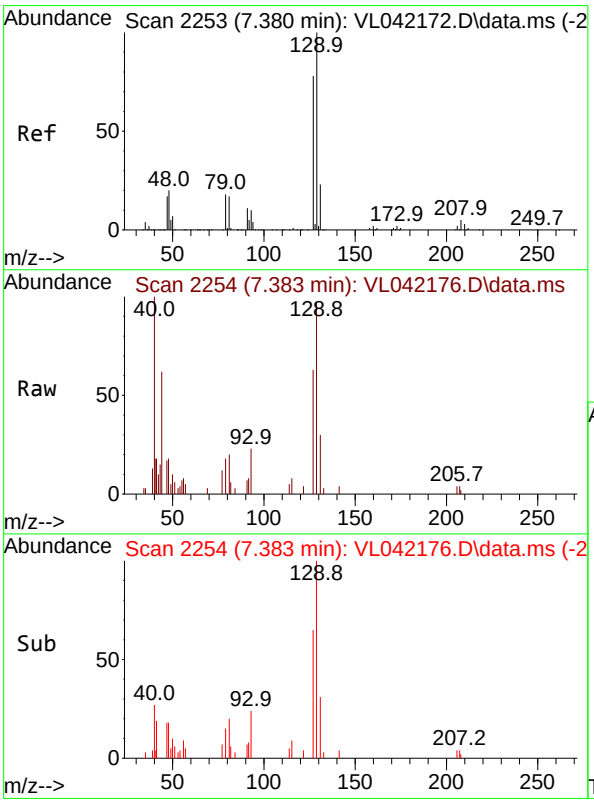

#45
t-1,3-Dichloropropene
Concen: 0.061 ppbv
RT: 6.419 min Scan# 1
Delta R.T. 0.013 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion: 75 Resp: 1449

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 52.5 | 26.0 | 39.0# |

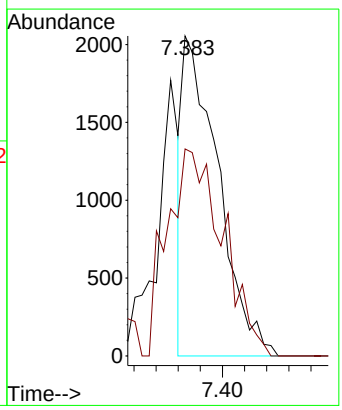


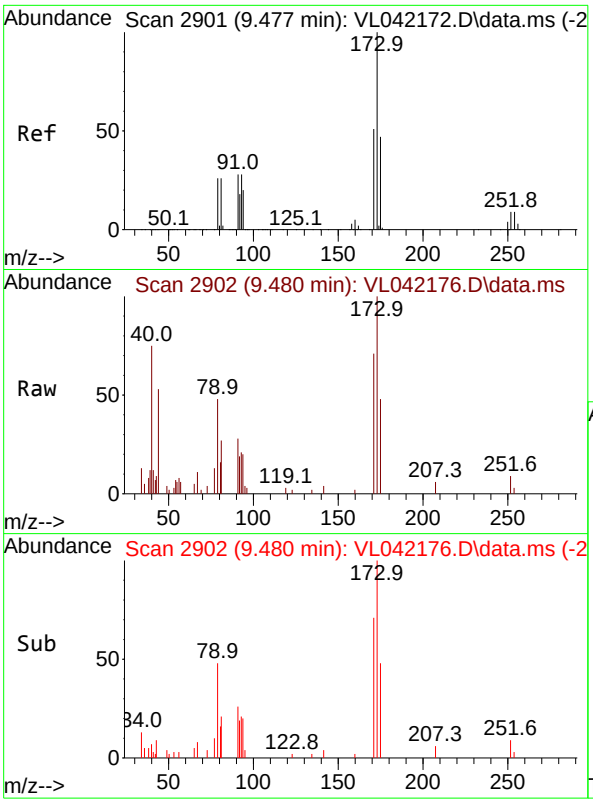




#48
Dibromochloromethane
Concen: 0.067 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion:129 Resp: 2284

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 106.0 | 39.1 | 117.2 |



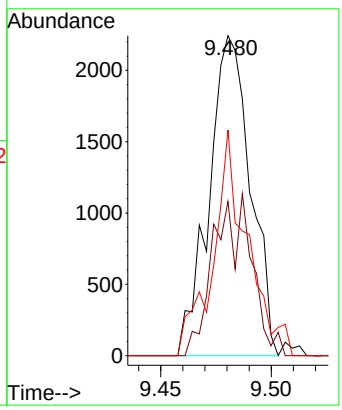


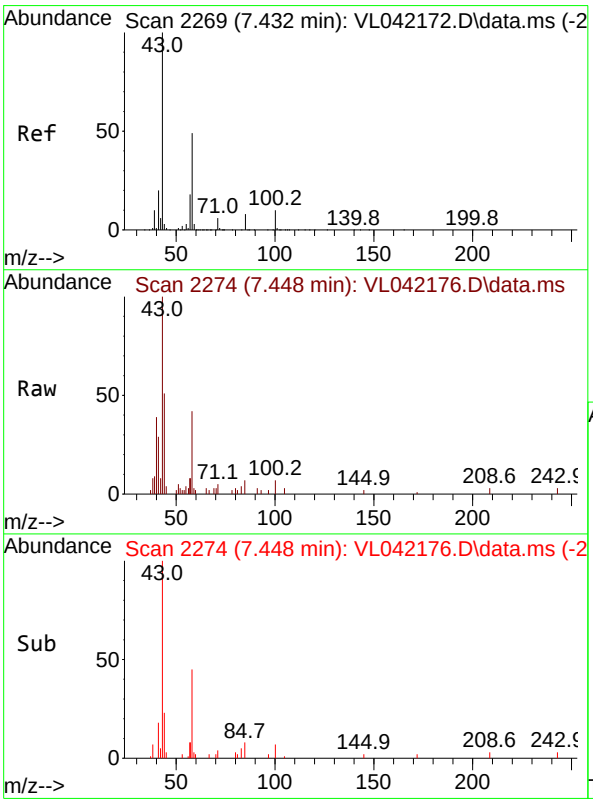

#49
Bromoform
Concen: 0.095 ppbv
RT: 9.480 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion:173 Resp: 2928

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 46.4 | 38.6 | 57.8 |
| 171 | 58.1 | 41.8 | 62.6 |

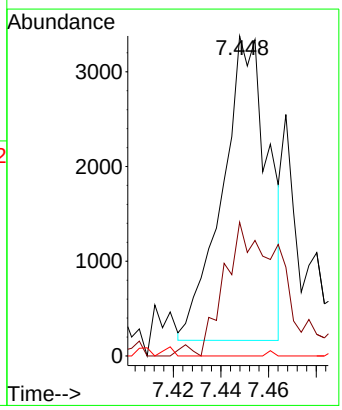


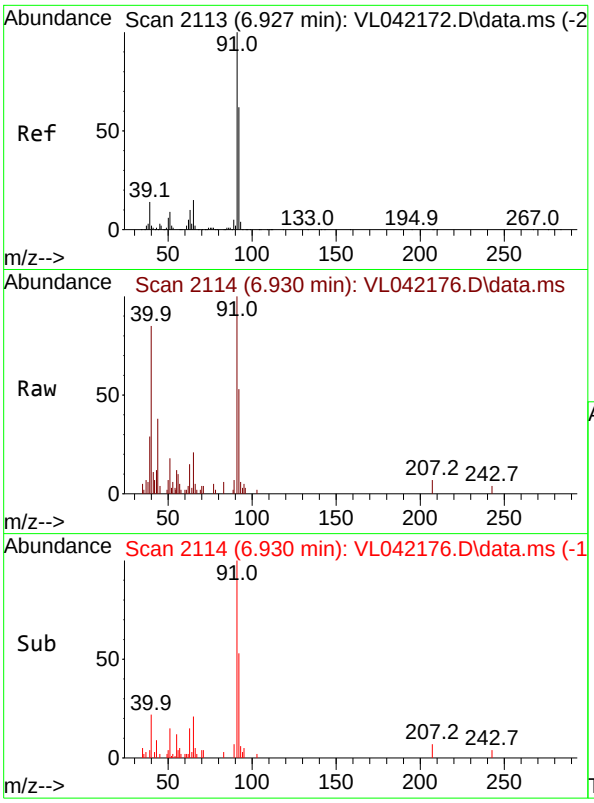




#51
2-Hexanone
Concen: 0.085 ppbv
RT: 7.448 min Scan# 2274
Delta R.T. 0.016 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 43 Resp: 4284

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 58.3 | 39.7 | 59.5 |
| 98 | 0.0 | 0.1 | 0.1# |



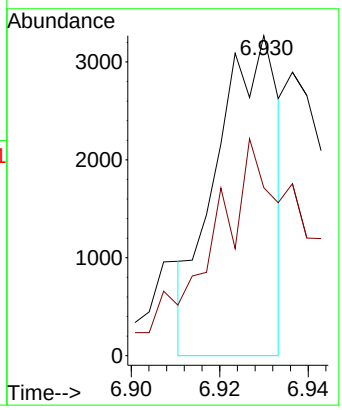


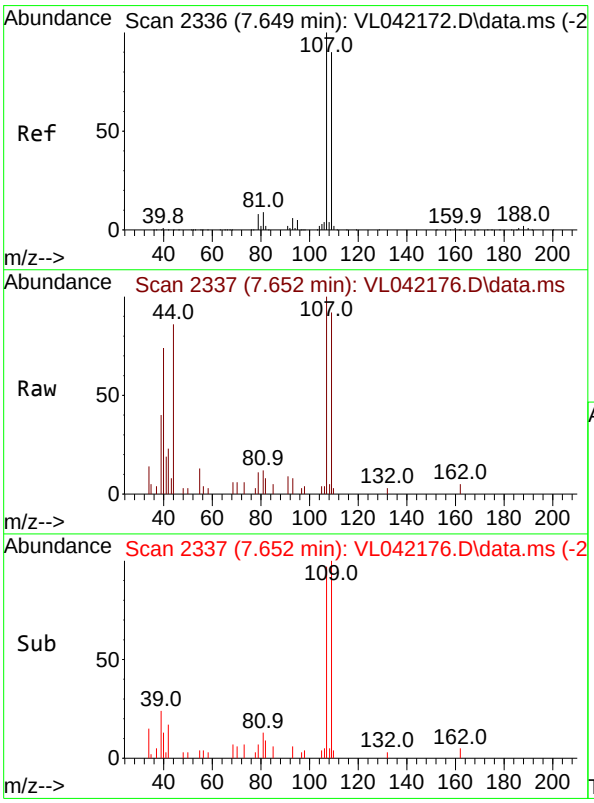

#53
Toluene
Concen: 0.051 ppbv
RT: 6.930 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion: 91 Resp: 3144

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 117.7 | 48.4 | 72.6# |

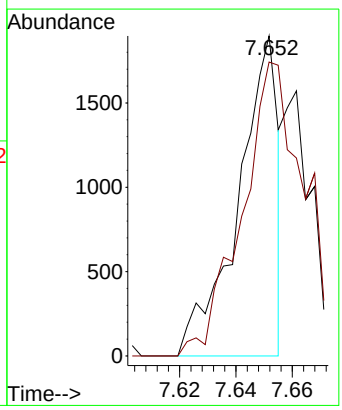


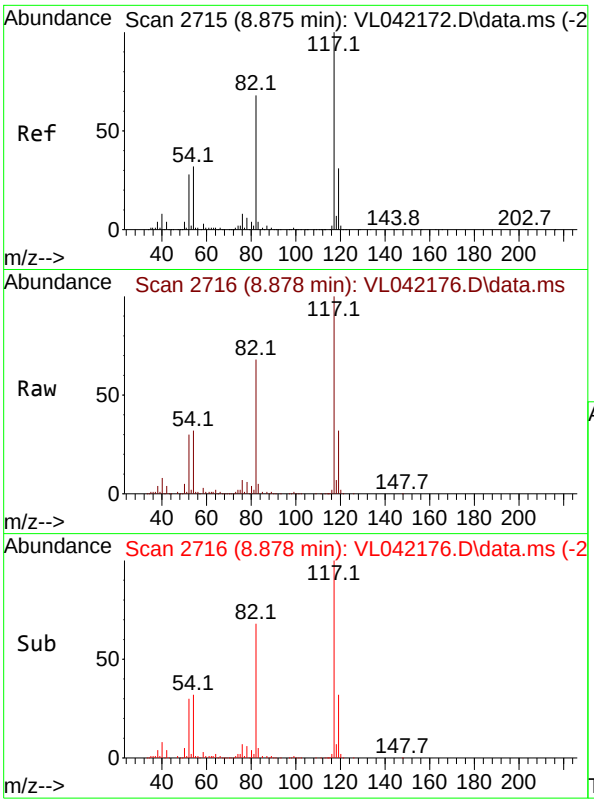




#54
1,2-Dibromoethane
Concen: 0.066 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion:107 Resp: 1864

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 91.8 | 72.2 | 108.4 |



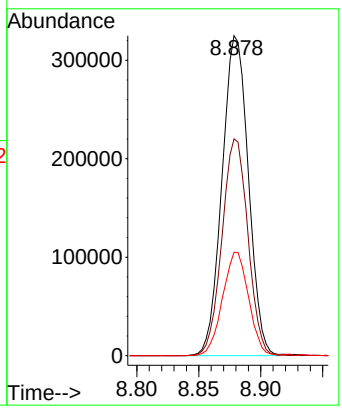


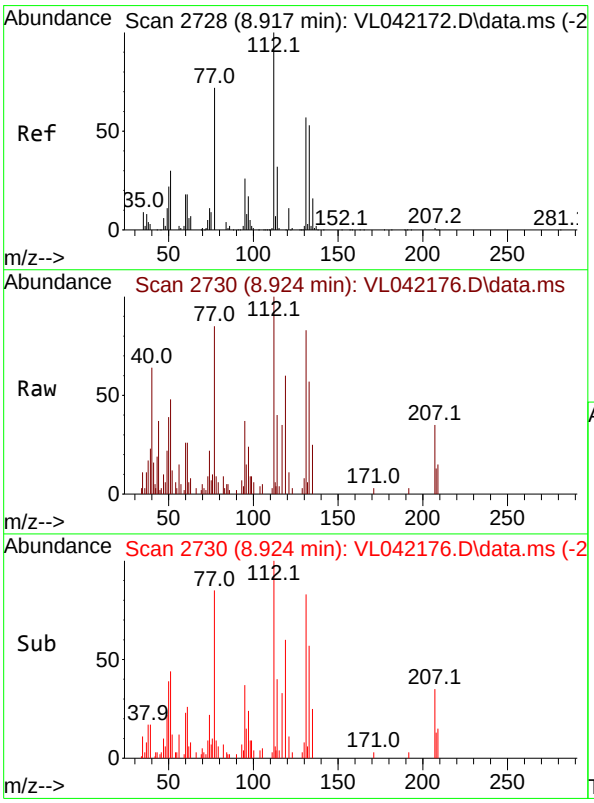

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion:117 Resp: 481506

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 66.7 | 55.8 | 83.6 |
| 119 | 32.3 | 25.5 | 38.3 |

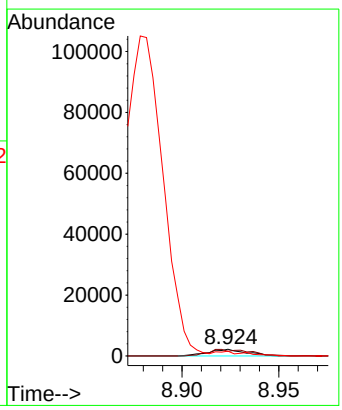


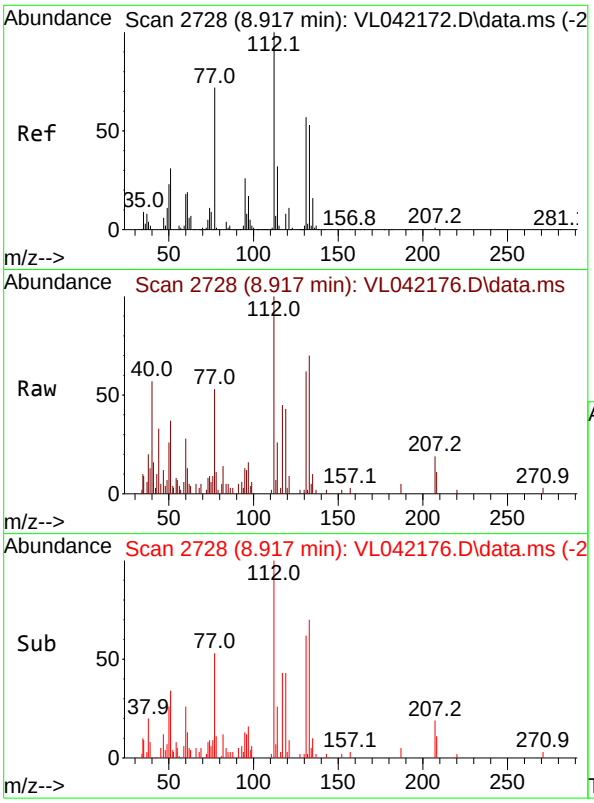




#56
1,1,1,2-Tetrachloroethane
Concen: 0.112 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. 0.006 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion:131 Resp: 2963

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 115.5 | 76.6 | 114.8# |
| 119 | 5254.7 | 49.8 | 74.6# |



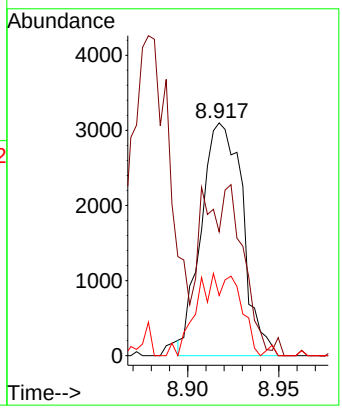


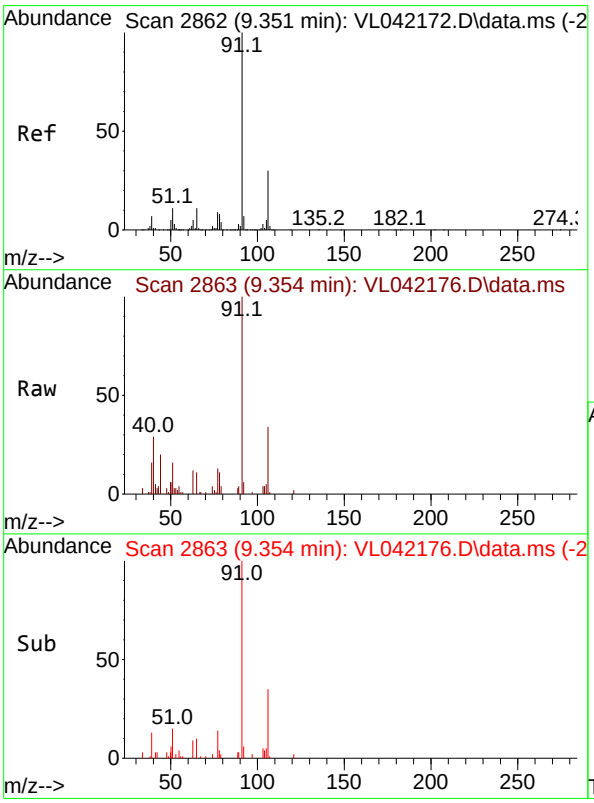

#57
Chlorobenzene
Concen: 0.107 ppbv
RT: 8.917 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion:112 Resp: 4904

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 45.4 | 58.2 | 87.2# |
| 114 | 25.8 | 29.1 | 35.5# |

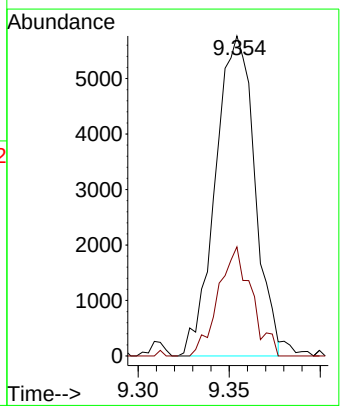


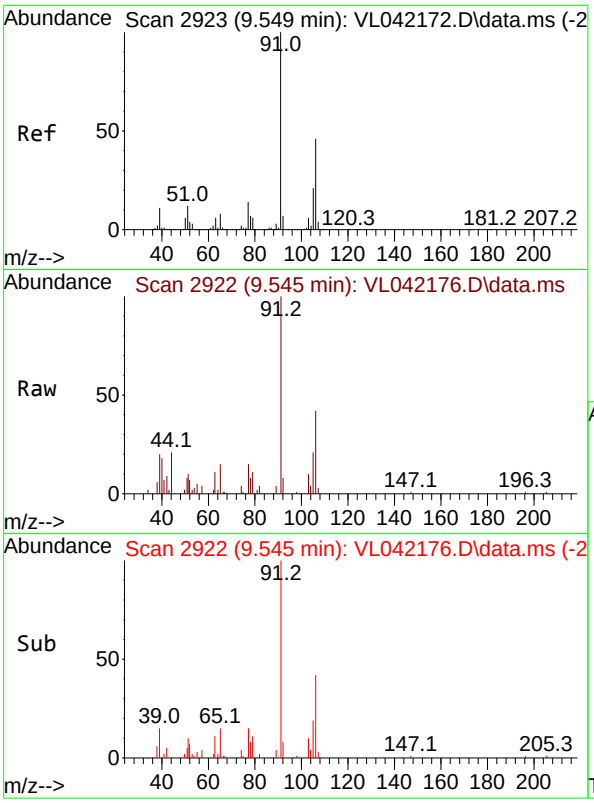




#58
Ethyl Benzene
Concen: 0.101 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 91 Resp: 8648

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 34.1 | 24.2 | 36.2 |



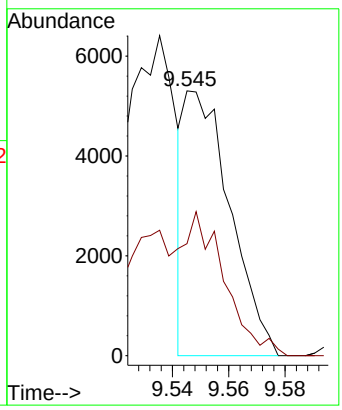


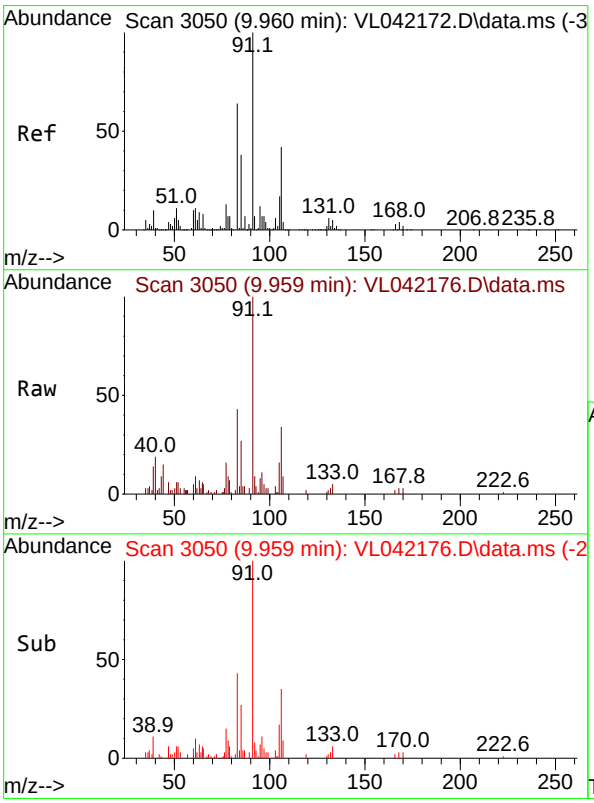

#59
m/p-Xylene
Concen: 0.088 ppbv
RT: 9.545 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion: 91 Resp: 6005

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 103.4 | 36.4 | 54.6# |

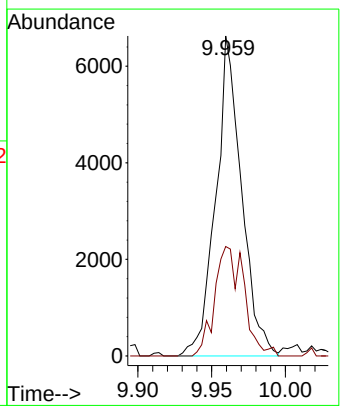


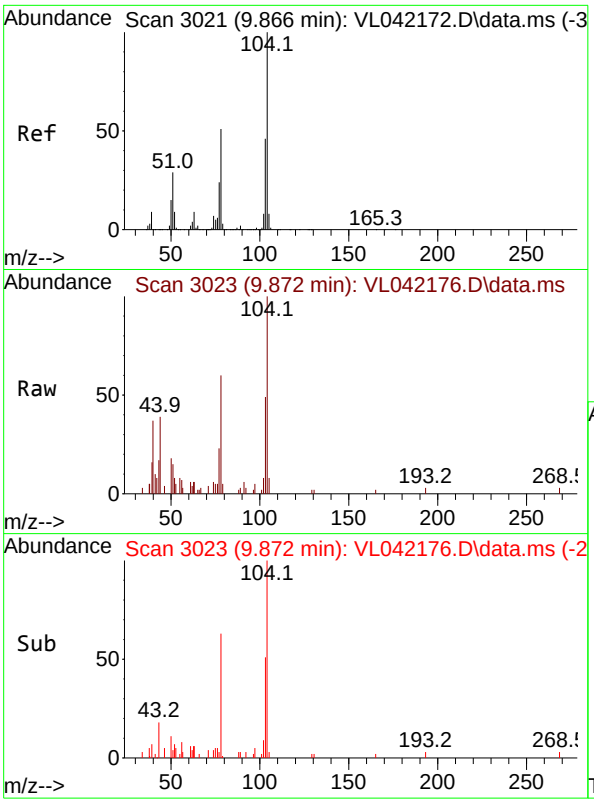




#60
o-Xylene
Concen: 0.118 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 91 Resp: 8048

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 39.0 | 20.8 | 62.5 |



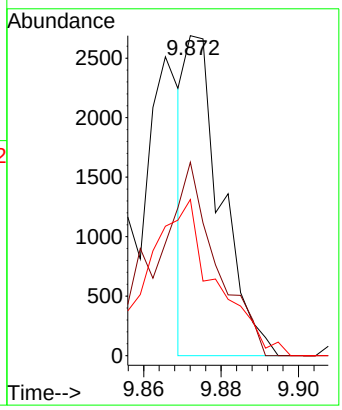


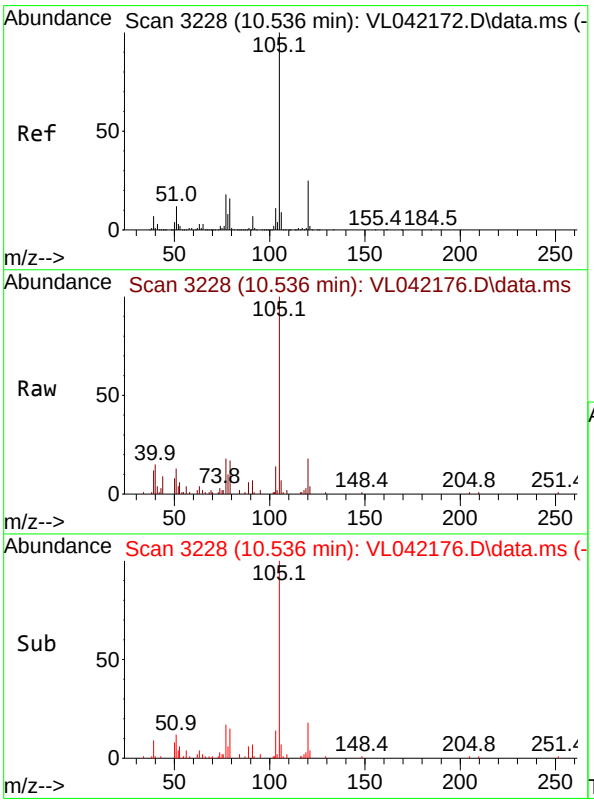

#61
Styrene
Concen: 0.051 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion:104 Resp: 1723

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 105.9 | 41.8 | 62.6# |
| 103 | 95.0 | 37.0 | 55.4# |

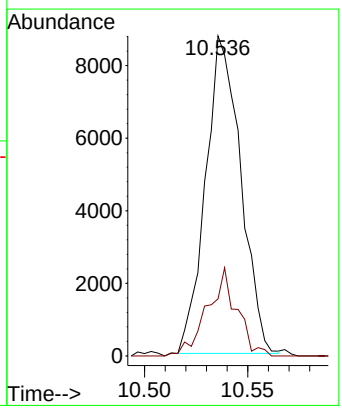


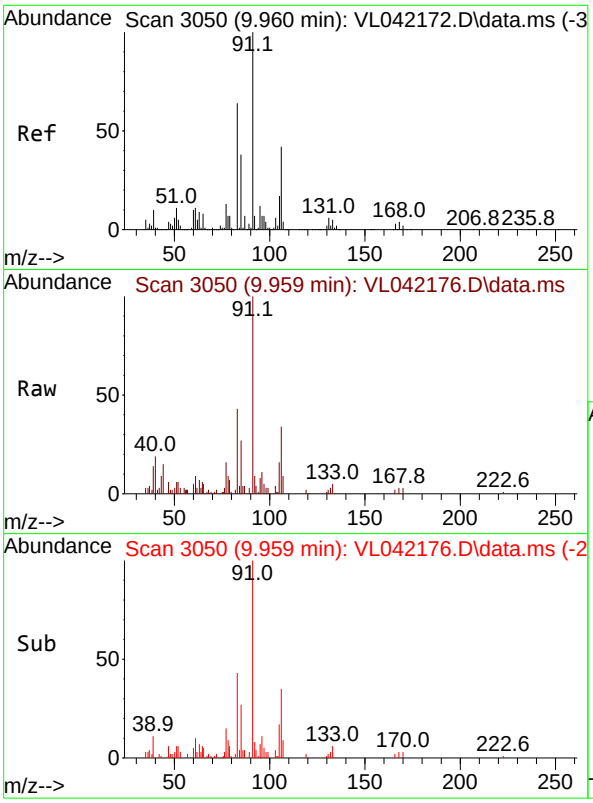




#62
Isopropylbenzene
Concen: 0.101 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion:105 Resp: 10359

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 23.2 | 19.9 | 29.9 |



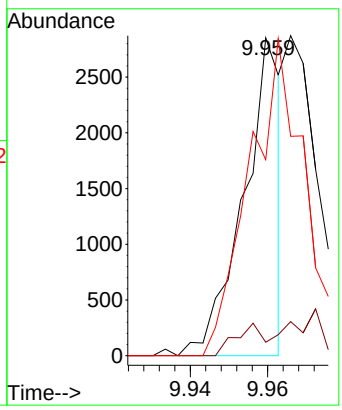


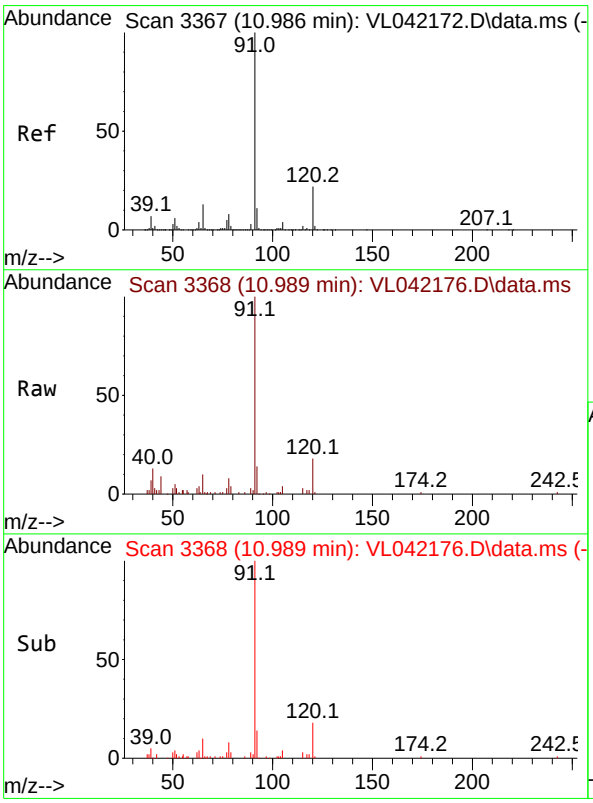

#63
1,1,2,2-Tetrachloroethane
Concen: 0.046 ppbv
RT: 9.959 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion: 83 Resp: 1910

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 0.0 | 4.8 | 14.4# |
| 85 | 0.0 | 32.5 | 97.5# |

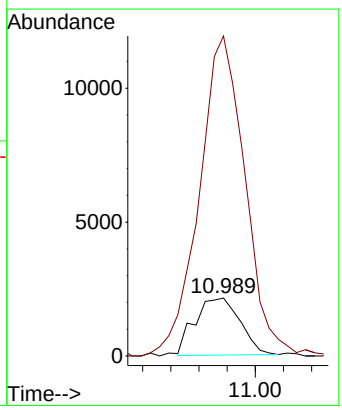


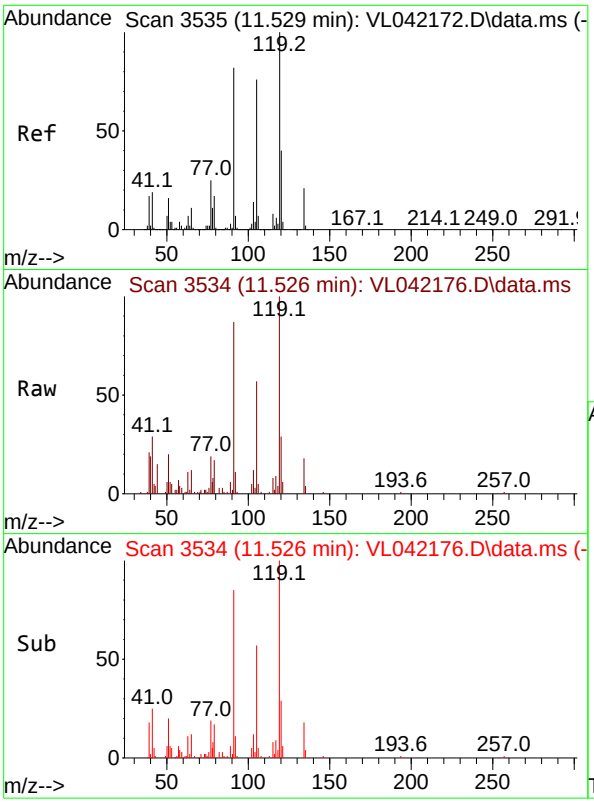




#64
n-propylbenzene
Concen: 0.090 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion:120 Resp: 2375

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 572.3 | 376.9 | 565.3# |



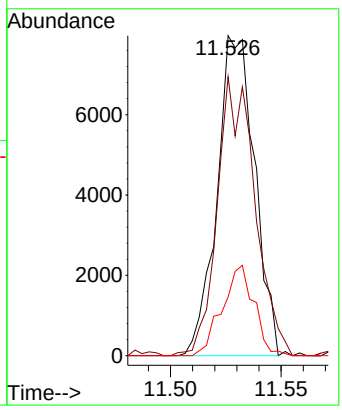


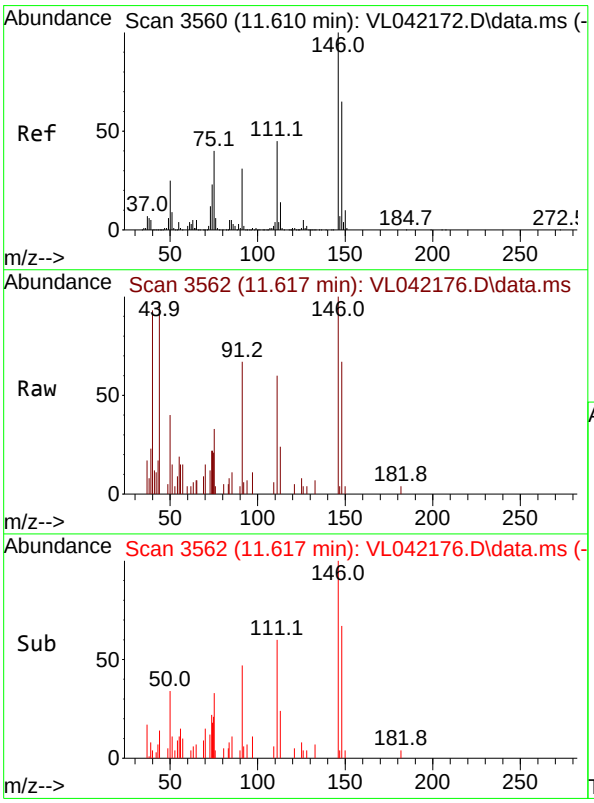

#65
tert-Butylbenzene
Concen: 0.099 ppbv
RT: 11.526 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion:119 Resp: 9418

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 87.8 | 66.0 | 99.0 |
| 134 | 23.9 | 16.7 | 25.1 |

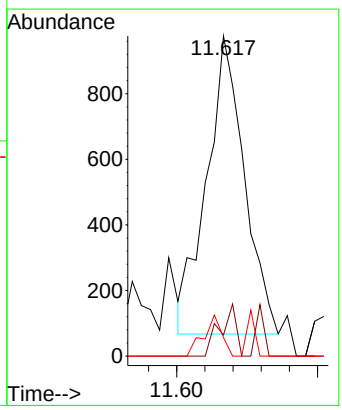


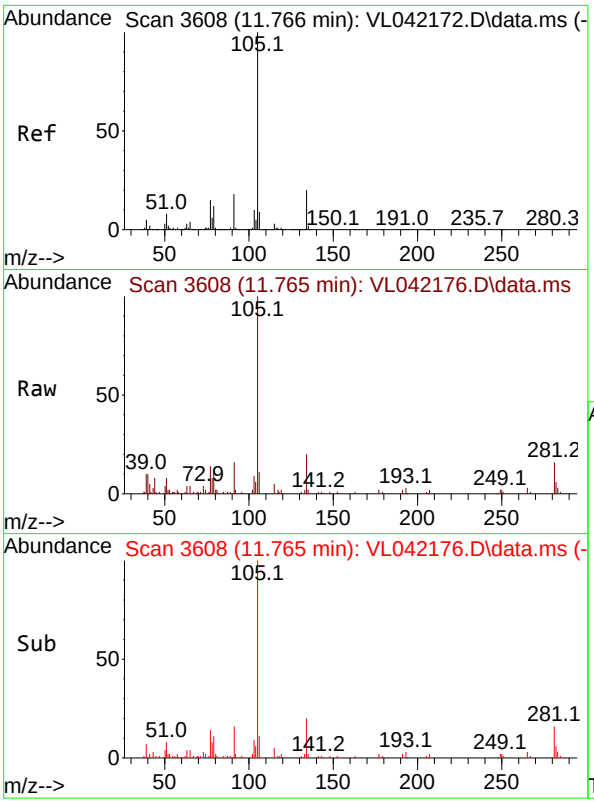




#66
Benzyl Chloride
Concen: 0.084 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.006 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 91 Resp: 844

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 11.0 | 13.8 | 20.6# |
| 128 | 10.0 | 4.5 | 6.7# |



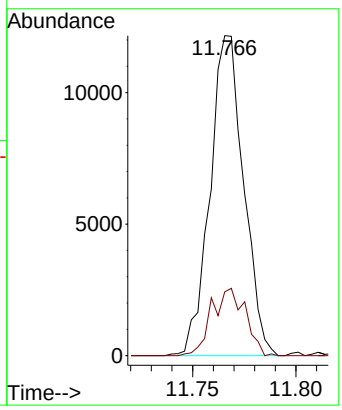


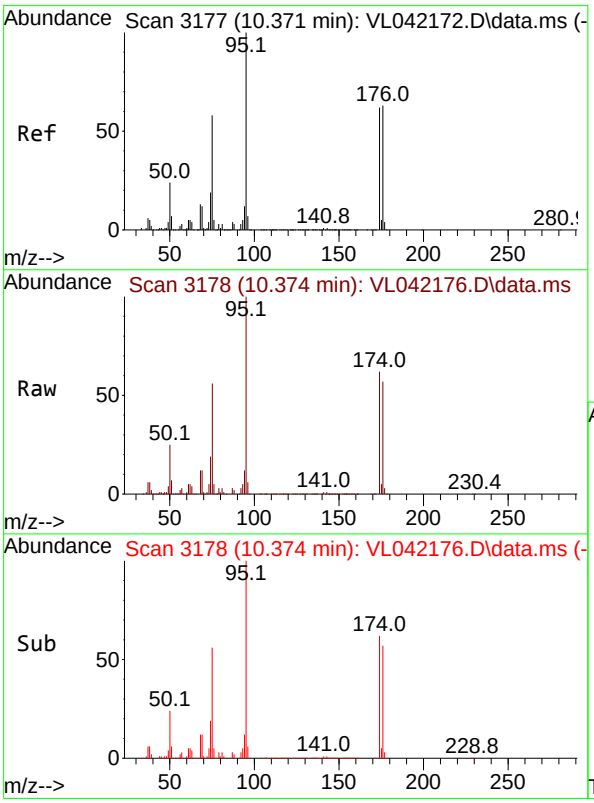

#67
sec-Butylbenzene
Concen: 0.105 ppbv
RT: 11.765 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion:105 Resp: 13775

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 21.2 | 15.5 | 23.3 |

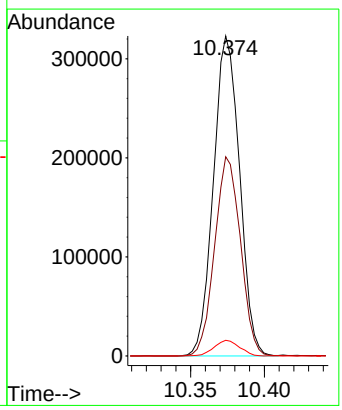


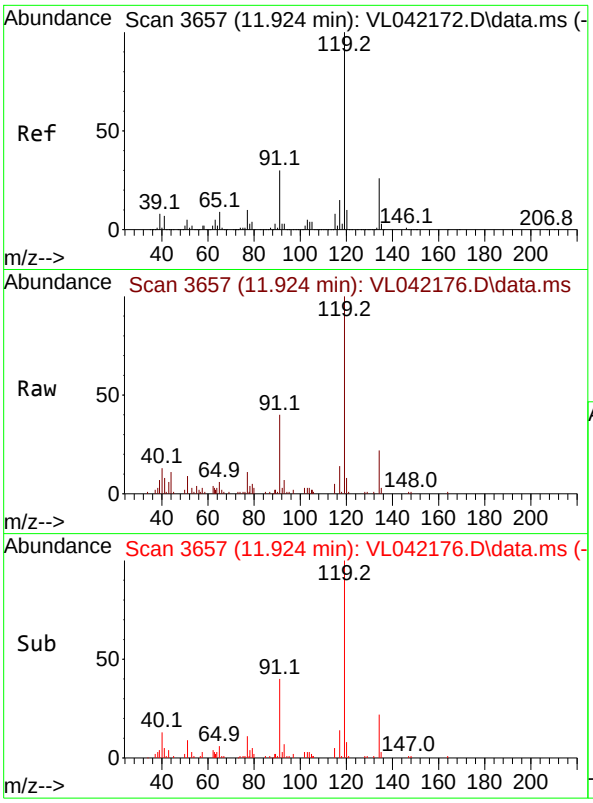




#68
1-Bromo-4-Fluorobenzene
Concen: 10.067 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 95 Resp: 398069

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 61.5 | 50.6 | 76.0 |
| 175 | 4.8 | 3.8 | 5.6 |



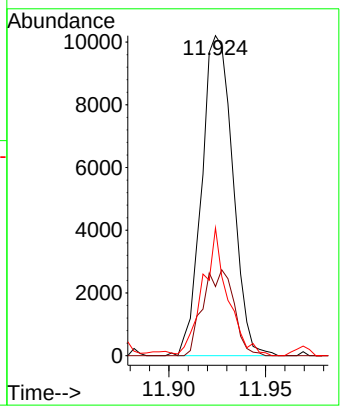


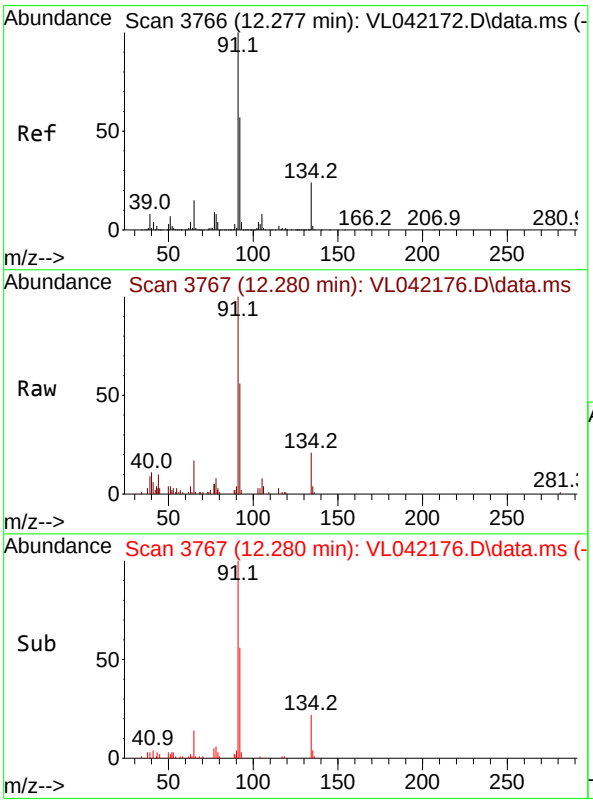

#69
p-Isopropyltoluene
Concen: 0.100 ppbv
RT: 11.924 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion:119 Resp: 11366

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.8 | 20.4 | 30.6 |
| 91 | 30.7 | 23.7 | 35.5 |

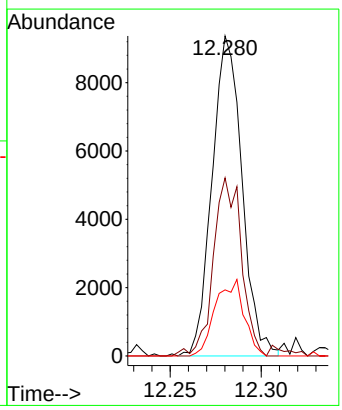


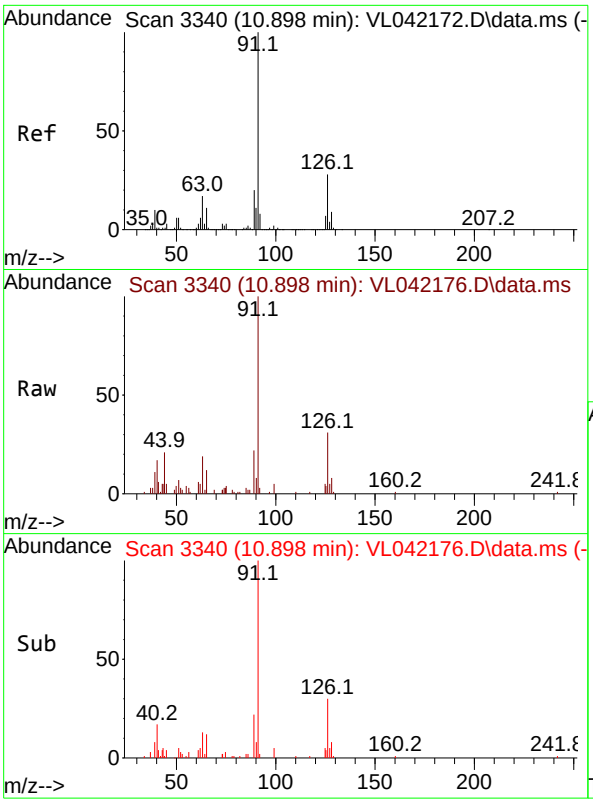




#70
n-Butylbenzene
Concen: 0.092 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 91 Resp: 10697

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 54.0 | 44.9 | 67.3 |
| 134 | 22.9 | 19.2 | 28.8 |



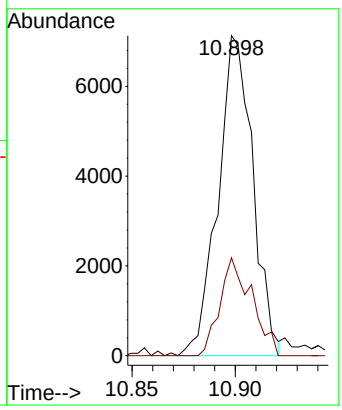


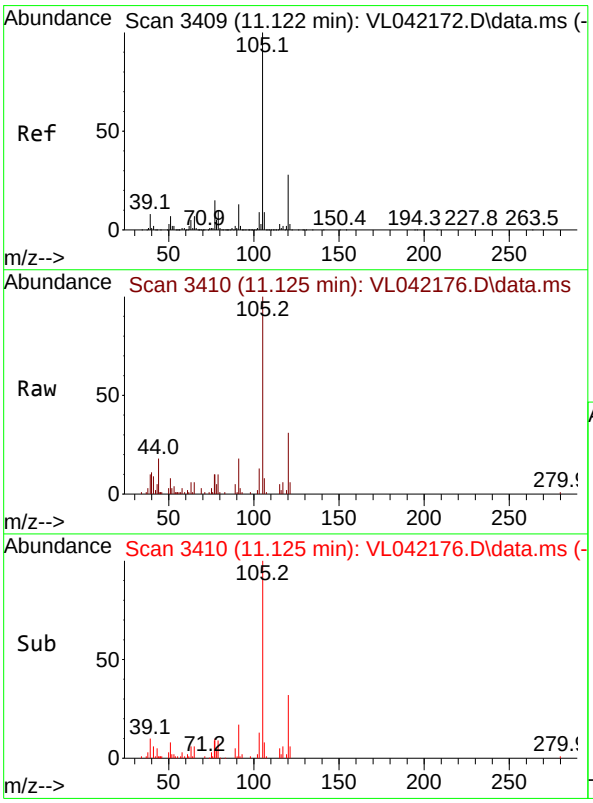

#71
2-Chlorotoluene
Concen: 0.105 ppbv
RT: 10.898 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion: 91 Resp: 8347

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 28.0 | 11.6 | 46.4 |

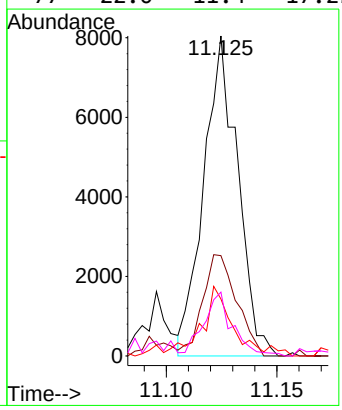


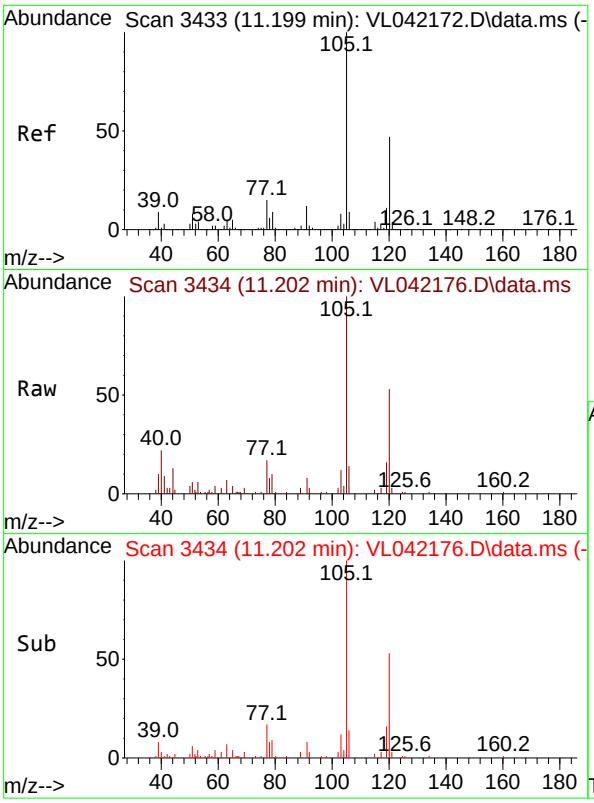




#72
4-Ethyltoluene
Concen: 0.101 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion:105 Resp: 8579

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 36.1 | 23.4 | 35.0# |
| 91 | 21.4 | 10.3 | 15.5# |
| 77 | 22.0 | 11.4 | 17.2# |



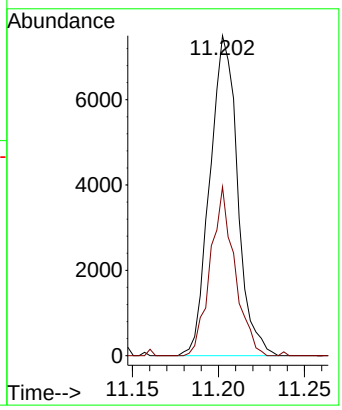


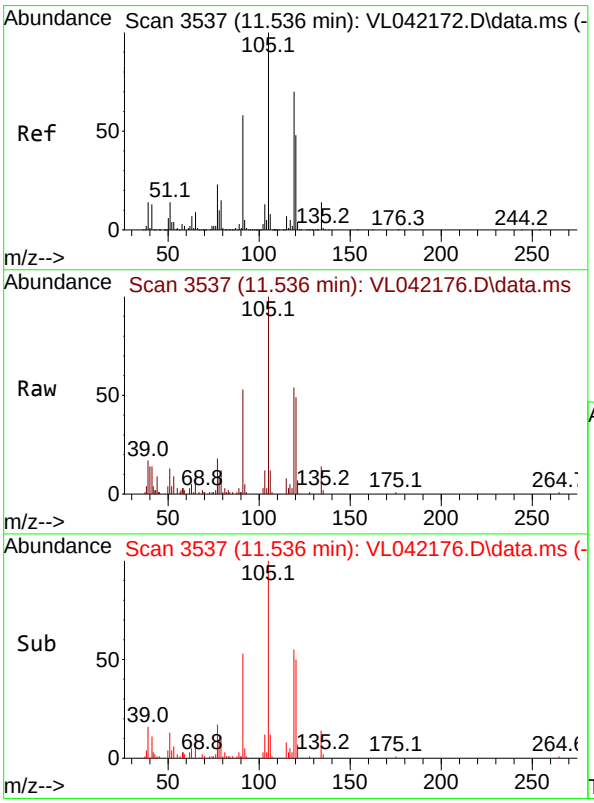

#73
1,3,5-Trimethylbenzene
Concen: 0.113 ppbv
RT: 11.202 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion:105 Resp: 8407

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 52.7 | 37.4 | 56.0 |

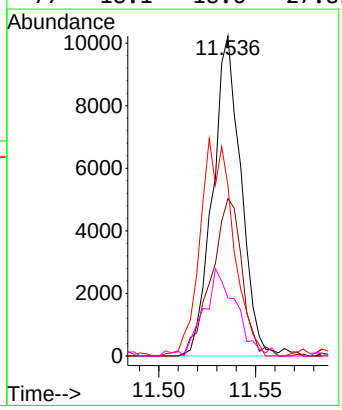


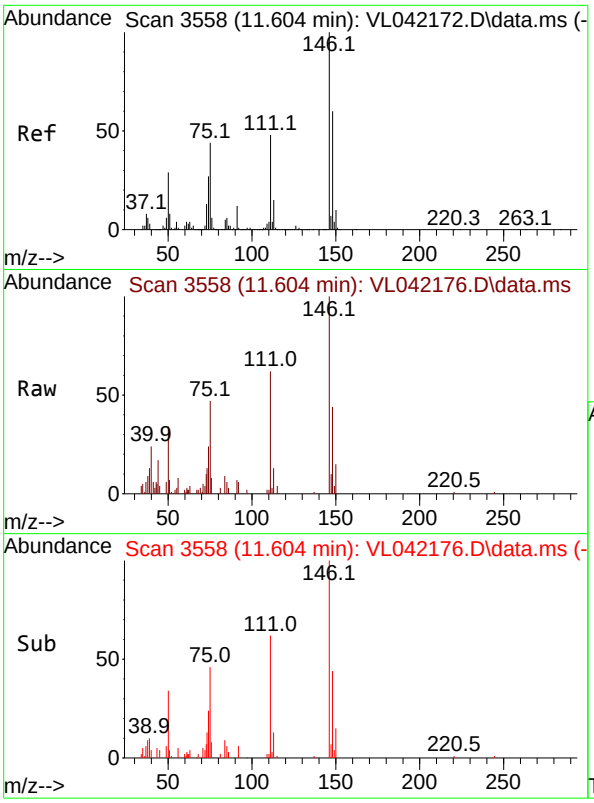




#74
1,2,4-Trimethylbenzene
Concen: 0.121 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion:105 Resp: 10341

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 49.2 | 38.6 | 58.0 |
| 91 | 53.2 | 46.2 | 69.2 |
| 77 | 18.1 | 18.6 | 27.8# |



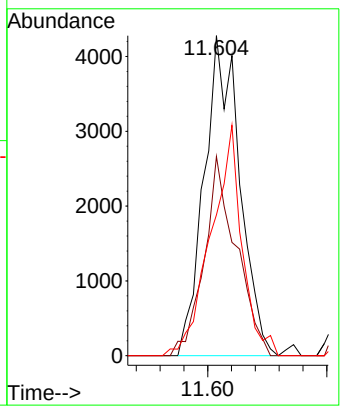


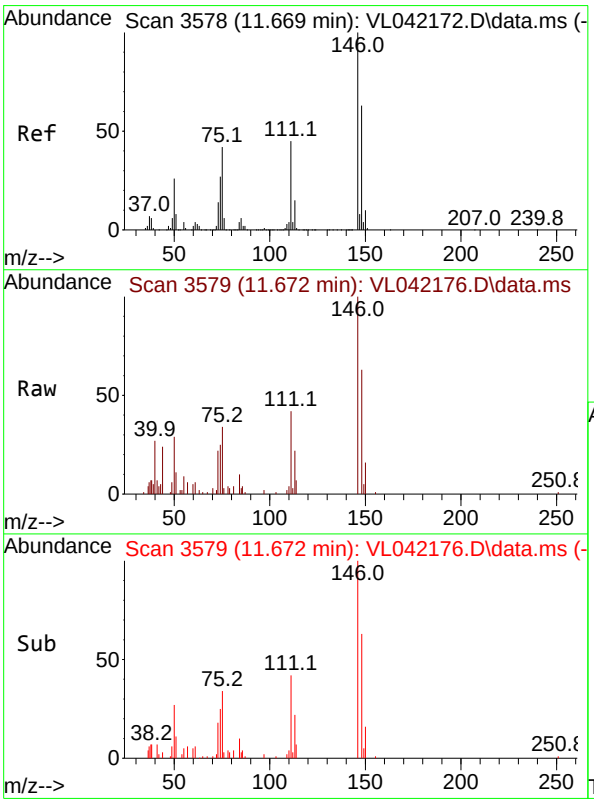

#75
1,3-Dichlorobenzene
Concen: 0.094 ppbv
RT: 11.604 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion:146 Resp: 4426

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 56.3 | 23.8 | 71.2 |
| 148 | 62.9 | 31.9 | 95.9 |

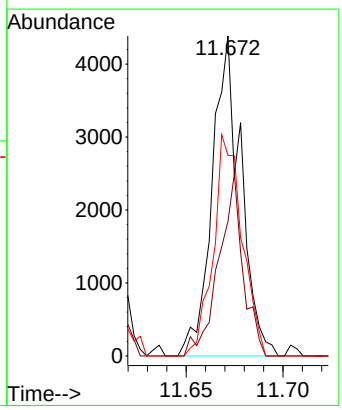


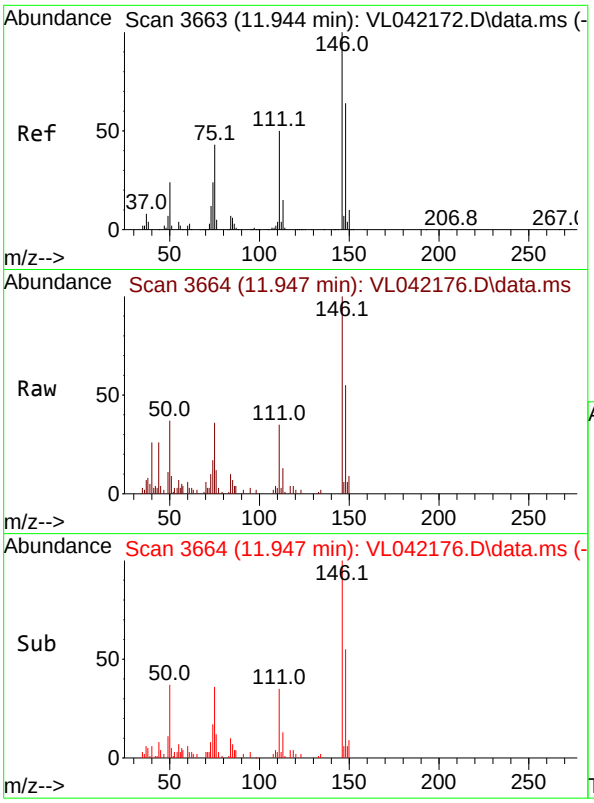




#76
1,4-Dichlorobenzene
Concen: 0.097 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion:146 Resp: 4552

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 47.6 | 23.0 | 69.0 |
| 148 | 68.6 | 31.9 | 95.7 |



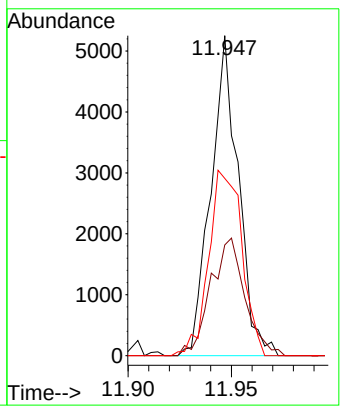


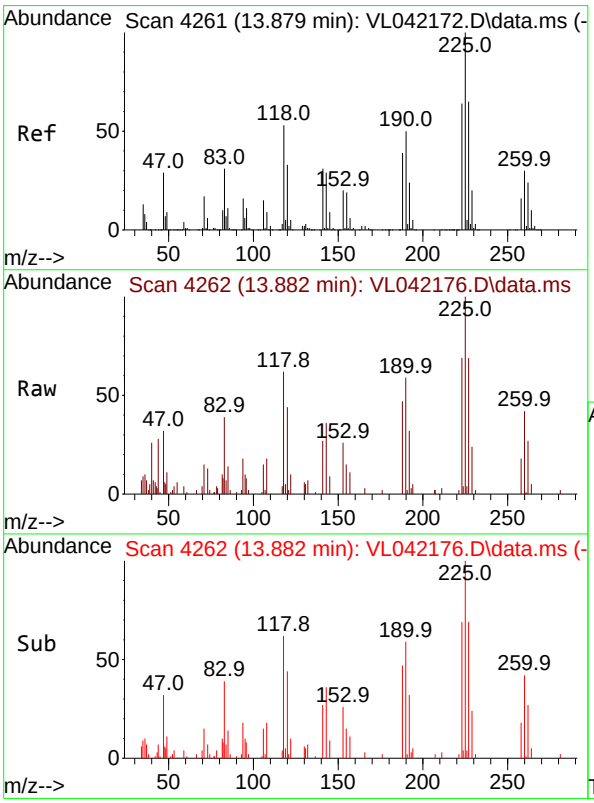

#77
1,2-Dichlorobenzene
Concen: 0.106 ppbv
RT: 11.947 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion:146 Resp: 4867

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 45.8 | 24.8 | 74.3 |
| 148 | 69.7 | 31.6 | 94.8 |

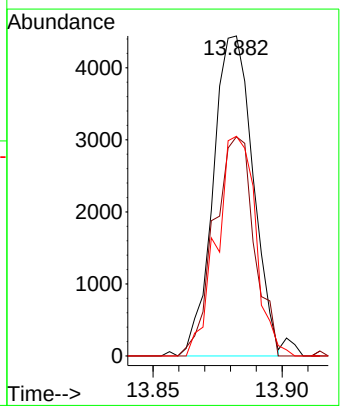


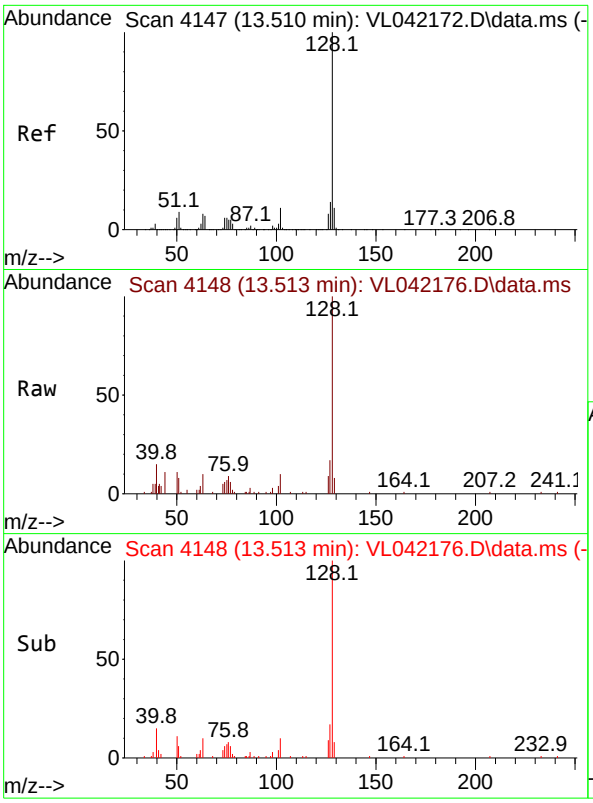




#78
Hexachloro-1,3-Butadiene
Concen: 0.102 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion:225 Resp: 4755

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 68.9 | 50.6 | 76.0 |
| 227 | 67.4 | 51.2 | 76.8 |



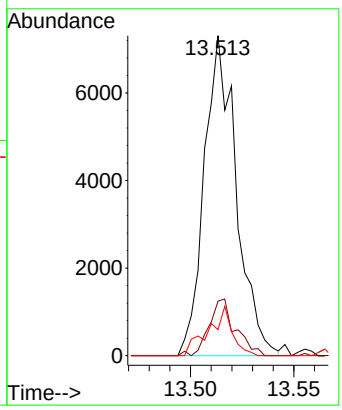


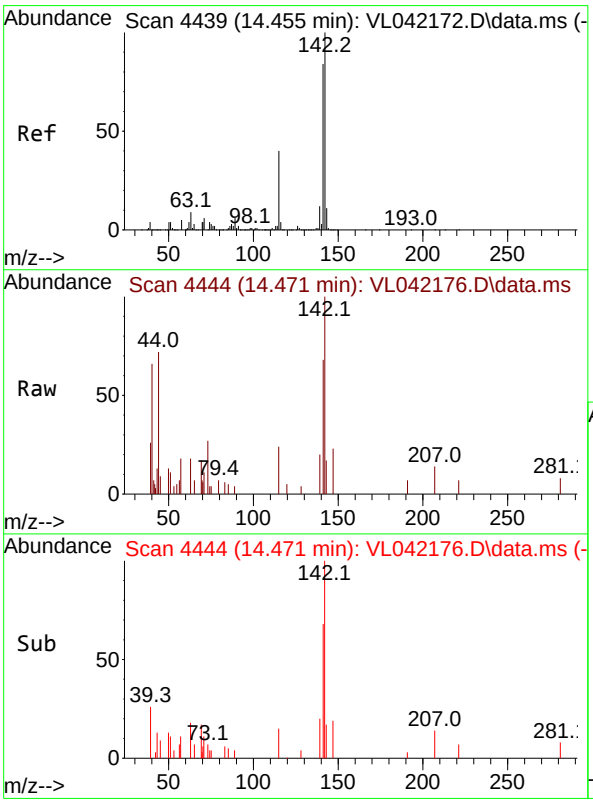

#79
Naphthalene
Concen: 0.084 ppbv
RT: 13.513 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion:128 Resp: 7882

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 17.1 | 10.8 | 16.2# |
| 129 | 8.1 | 9.0 | 13.4# |

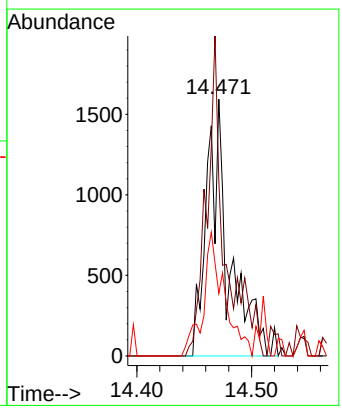


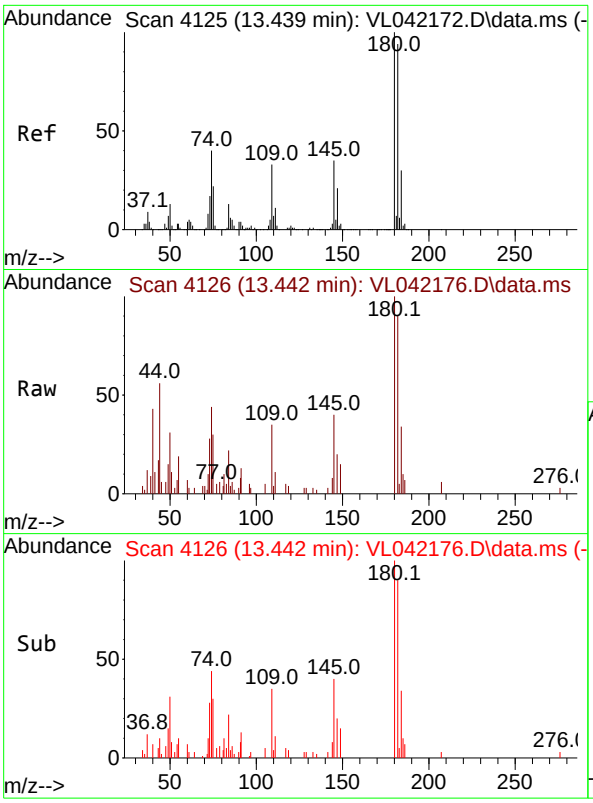




#80
Naphthalene,2-methyl-
Concen: 0.048 ppbv
RT: 14.471 min Scan# 4444
Delta R.T. 0.016 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion:142 Resp: 2174

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 109.3 | 66.3 | 99.5# |
| 115 | 44.3 | 31.6 | 47.4 |



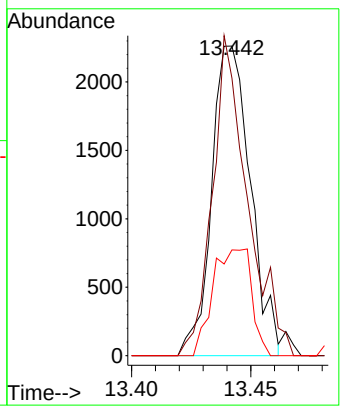



#81
1,2,4-Trichlorobenzene
Concen: 0.059 ppbv
RT: 13.442 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion:180 Resp: 2557

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.6 | 75.1 | 112.7 |
| 184 | 34.5 | 24.4 | 36.6 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042177.D
Acq On : 27 Mar 2025 11:03
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Quant Time: Mar 28 01:36:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

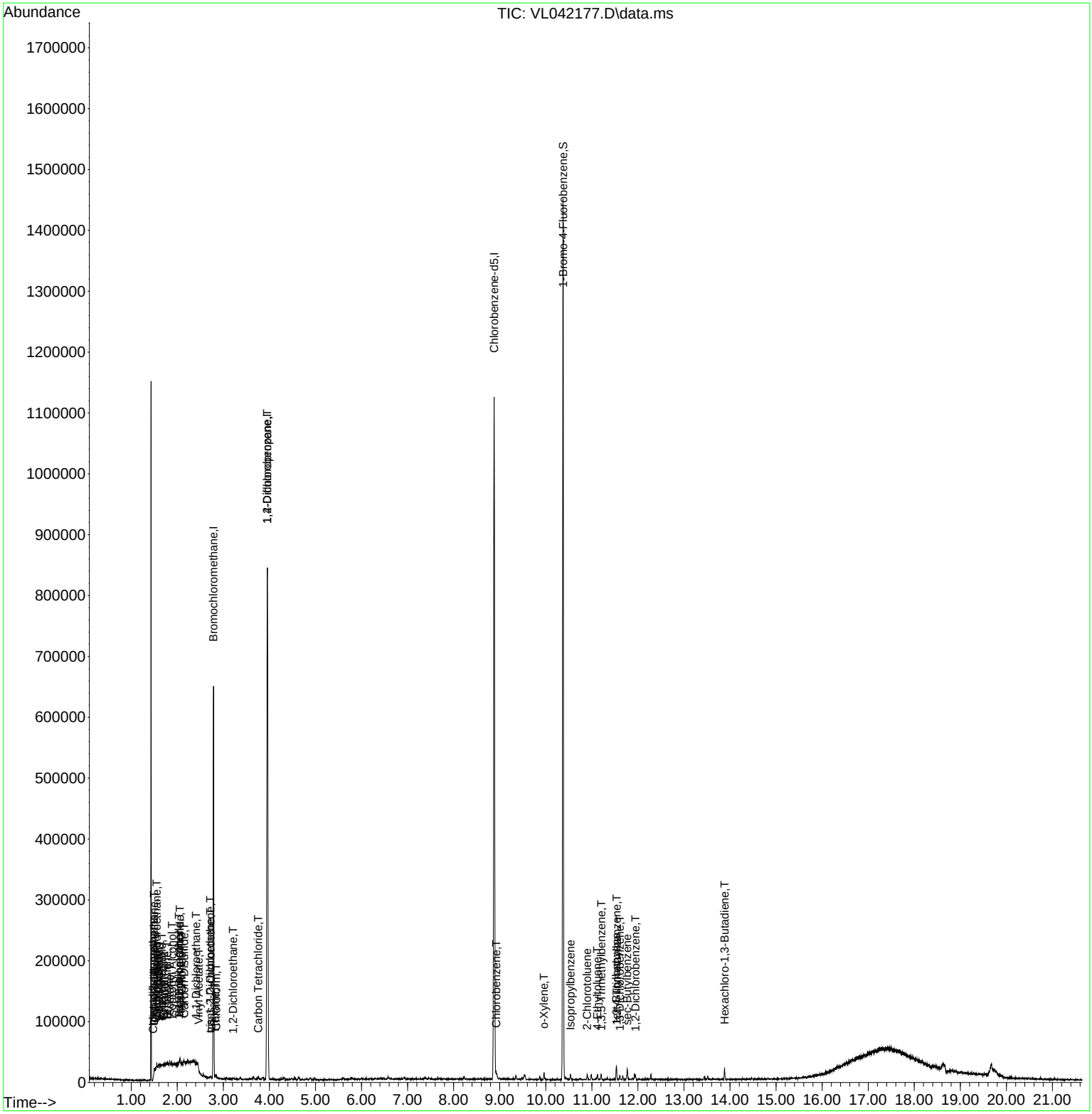
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.787 | 49 | 178058 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.955 | 114 | 512915 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.878 | 117 | 475617 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.374 | 95 | 389935 | 9.983 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 99.800% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.496 | 85 | 914 | 0.035 | ppbv # | 73 |
| 3) Chlorodifluoromethane | 1.476 | 51 | 1354 | 0.050 | ppbv # | 1 |
| 4) Chloromethane | 1.531 | 50 | 675 | 0.063 | ppbv # | 86 |
| 5) Vinyl Chloride | 1.580 | 62 | 534 | 0.049 | ppbv # | 79 |
| 6) Bromomethane | 1.670 | 94 | 483 | 0.099 | ppbv # | 9 |
| 7) Chloroethane | 1.703 | 64 | 361 | 0.084 | ppbv # | 45 |
| 8) Dichlorotetrafluoroethane | 1.554 | 85 | 815 | 0.036 | ppbv # | 79 |
| 13) Ethanol | 1.719 | 45 | 312 | 0.329 | ppbv # | 27 |
| 14) Bromoethene | 1.780 | 108 | 482 | 0.060 | ppbv # | 31 |
| 15) Acetone | 1.835 | 43 | 3574 | 0.144 | ppbv # | 63 |
| 16) 1,3-Butadiene | 1.606 | 39 | 1101 | 0.098 | ppbv # | 57 |
| 17) tert-Butyl alcohol | 2.043 | 59 | 1215 | 0.039 | ppbv # | 1 |
| 18) 1,1-Dichloroethene | 2.036 | 96 | 560 | 0.057 | ppbv # | 38 |
| 19) Isopropyl Alcohol | 1.887 | 45 | 1071 | 0.076 | ppbv # | 30 |
| 20) Methylene Chloride | 2.059 | 84 | 1823 | 0.197 | ppbv # | 91 |
| 21) Allyl Chloride | 2.091 | 41 | 1518 | 0.086 | ppbv # | 29 |
| 22) trans-1,2-Dichloroethene | 2.719 | 96 | 586 | 0.051 | ppbv | 96 |
| 23) Vinyl Acetate | 2.463 | 43 | 689 | 0.067 | ppbv # | 1 |
| 24) 1,1-Dichloroethane | 2.412 | 63 | 961 | 0.046 | ppbv # | 72 |
| 26) Hexane | 2.819 | 57 | 1040 | 0.042 | ppbv # | 46 |
| 27) Carbon Disulfide | 2.149 | 76 | 1061 | 0.040 | ppbv # | 1 |
| 29) Chloroform | 2.848 | 83 | 1619 | 0.044 | ppbv | 92 |
| 31) cis-1,2-Dichloroethene | 2.719 | 61 | 846 | 0.033 | ppbv | 92 |
| 35) Carbon Tetrachloride | 3.758 | 117 | 1520 | 0.039 | ppbv # | 42 |
| 37) 1,2-Dichloroethane | 3.214 | 62 | 1029 | 0.035 | ppbv # | 88 |
| 39) 1,2-Dichloropropane | 3.955 | 63 | 136518 | 7.372 | ppbv # | 23 |
| 57) Chlorobenzene | 8.924 | 112 | 1382 | 0.031 | ppbv # | 61 |
| 60) o-Xylene | 9.959 | 91 | 2844 | 0.042 | ppbv | 96 |
| 62) Isopropylbenzene | 10.535 | 105 | 3380 | 0.033 | ppbv | 95 |
| 65) tert-Butylbenzene | 11.529 | 119 | 3543 | 0.038 | ppbv | 98 |
| 67) sec-Butylbenzene | 11.765 | 105 | 4317 | 0.033 | ppbv | 92 |
| 71) 2-Chlorotoluene | 10.898 | 91 | 2666 | 0.034 | ppbv | 97 |
| 72) 4-Ethyltoluene | 11.121 | 105 | 3017 | 0.036 | ppbv # | 64 |
| 73) 1,3,5-Trimethylbenzene | 11.205 | 105 | 3101 | 0.042 | ppbv | 94 |
| 74) 1,2,4-Trimethylbenzene | 11.539 | 105 | 5313 | 0.063 | ppbv # | 73 |
| 75) 1,3-Dichlorobenzene | 11.607 | 146 | 1577 | 0.034 | ppbv | 90 |
| 77) 1,2-Dichlorobenzene | 11.947 | 146 | 1591 | 0.035 | ppbv | 92 |
| 78) Hexachloro-1,3-Butadiene | 13.882 | 225 | 1821 | 0.040 | ppbv | 94 |

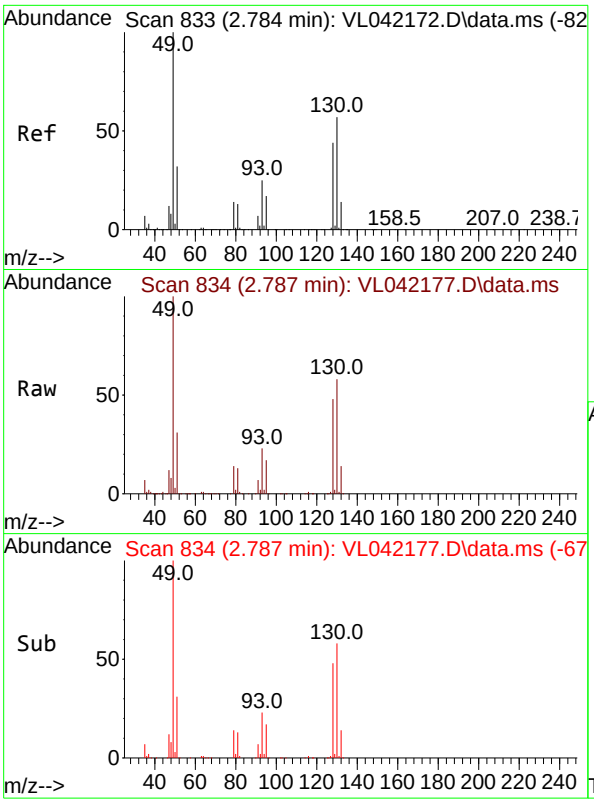
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042177.D
Acq On : 27 Mar 2025 11:03
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Quant Time: Mar 28 01:36:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration



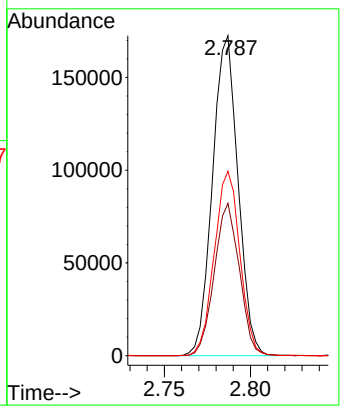


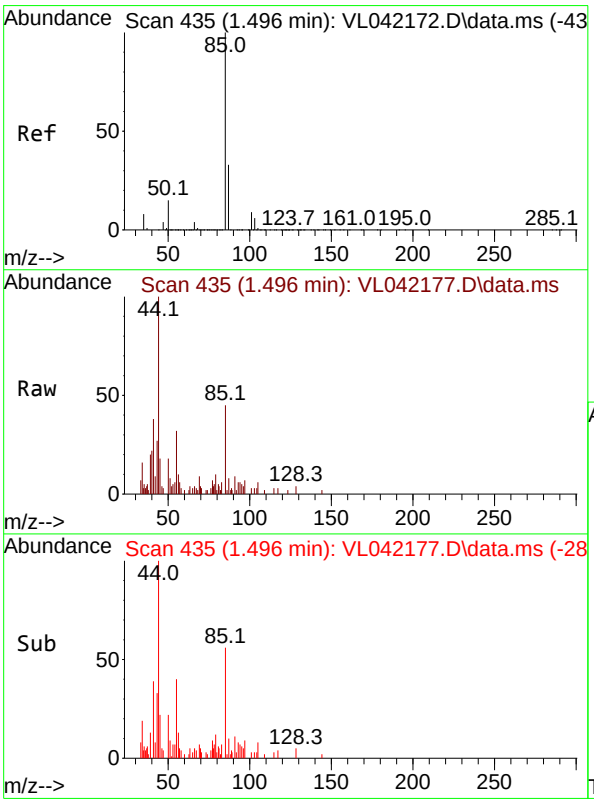

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion: 49 Resp: 178058

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 46.8 | 22.9 | 68.5 |
| 130 | 57.9 | 28.8 | 86.4 |

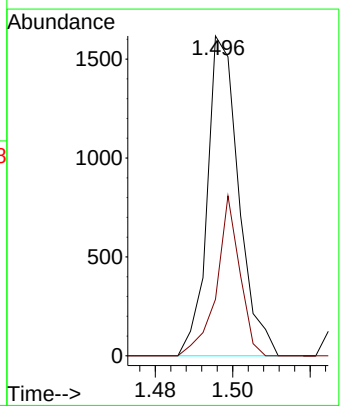


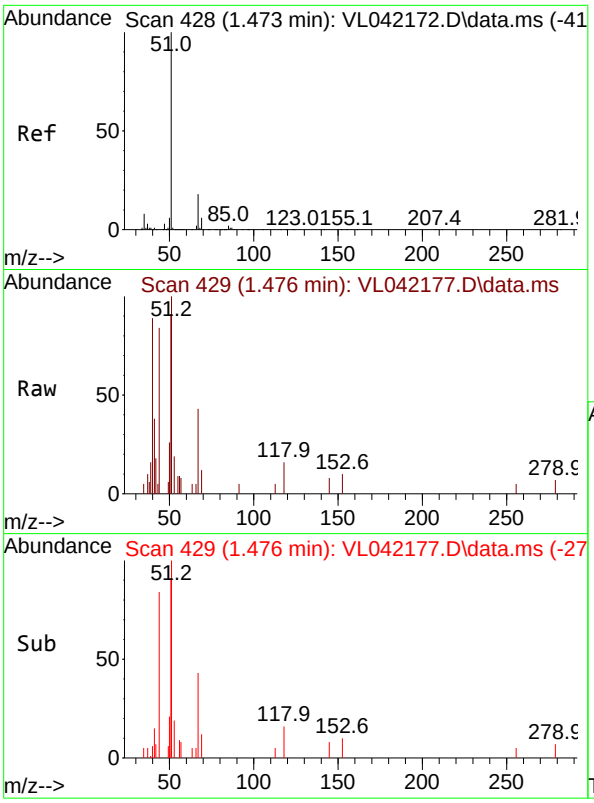




#2
Dichlorodifluoromethane
Concen: 0.035 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion: 85 Resp: 914

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 17.7 | 26.1 | 39.1# |



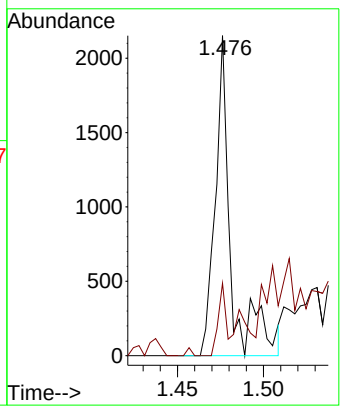


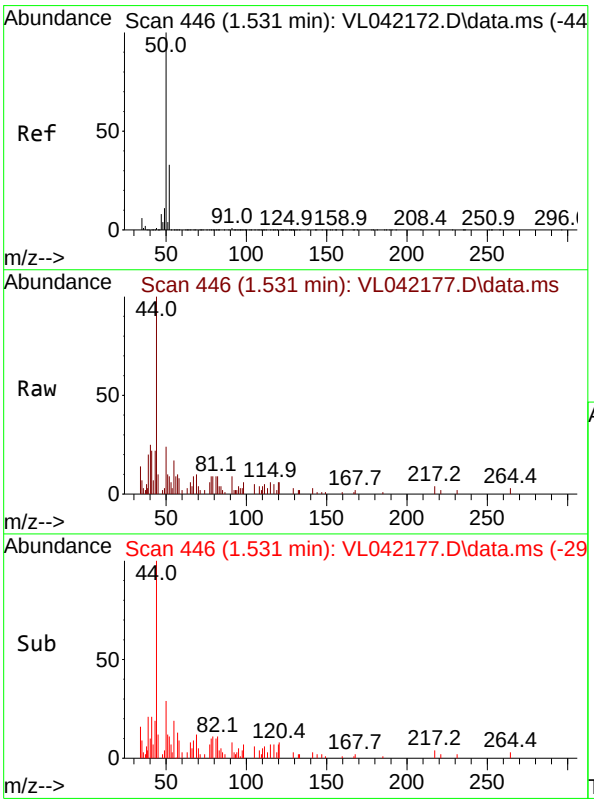

#3
Chlorodifluoromethane
Concen: 0.050 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion: 51 Resp: 1354

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 71.0 | 15.0 | 22.6# |

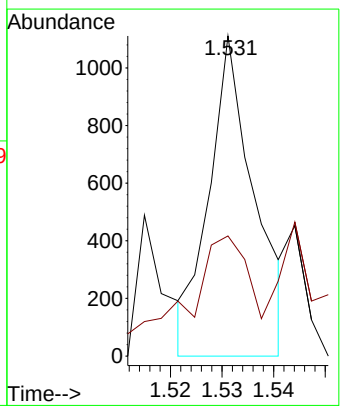


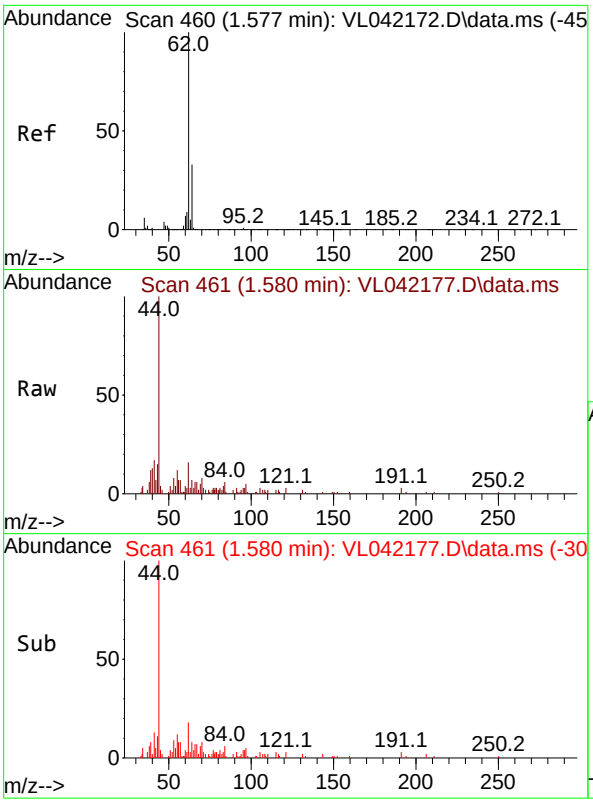




#4
Chloromethane
Concen: 0.063 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion: 50 Resp: 675

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 24.6 | 26.1 | 39.1# |



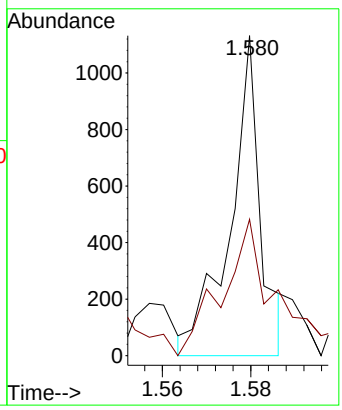


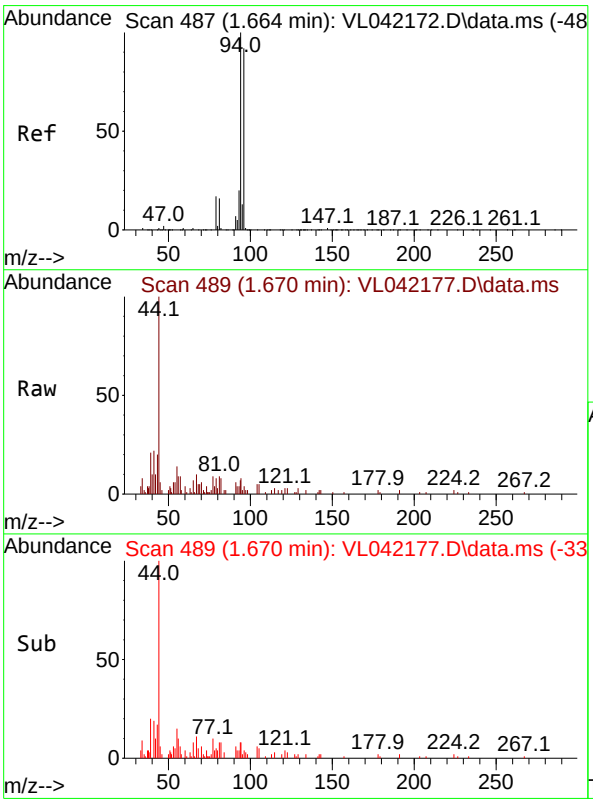

#5
Vinyl Chloride
Concen: 0.049 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion: 62 Resp: 534

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 45.4 | 26.6 | 40.0# |

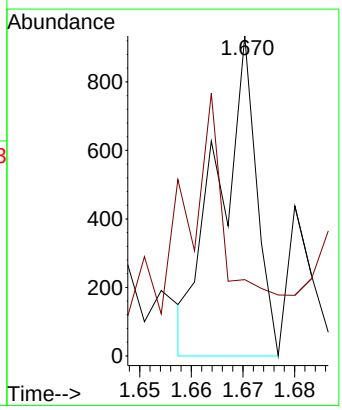


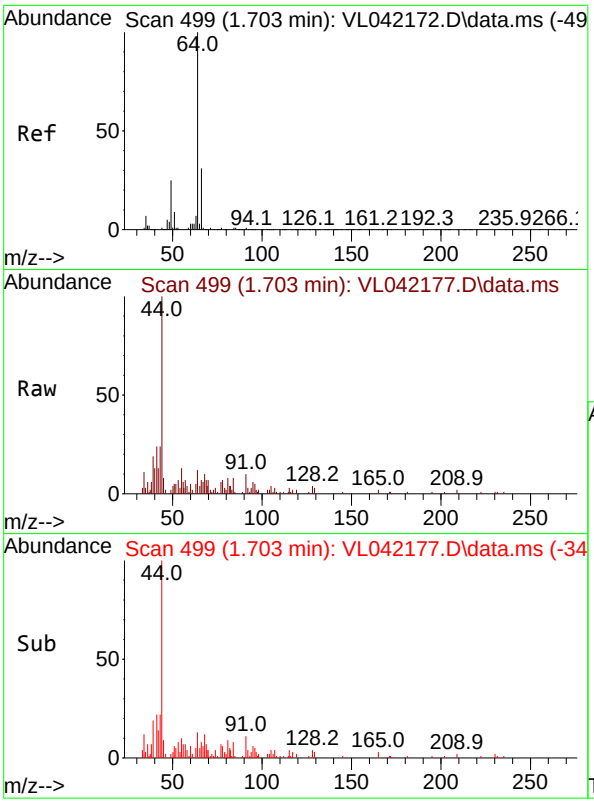




#6
Bromomethane
Concen: 0.099 ppbv
RT: 1.670 min Scan# 489
Delta R.T. 0.006 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion: 94 Resp: 483

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 4.8 | 73.1 | 109.7# |



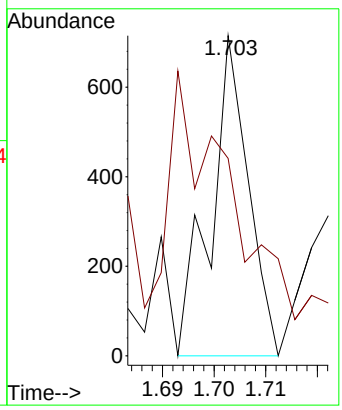


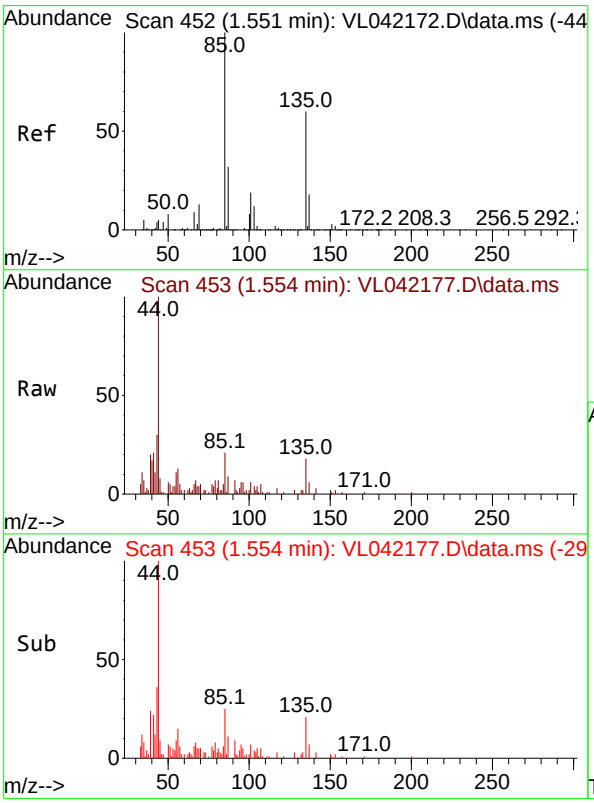

#7
Chloroethane
Concen: 0.084 ppbv
RT: 1.703 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion: 64 Resp: 361

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 61.7 | 25.2 | 37.8# |

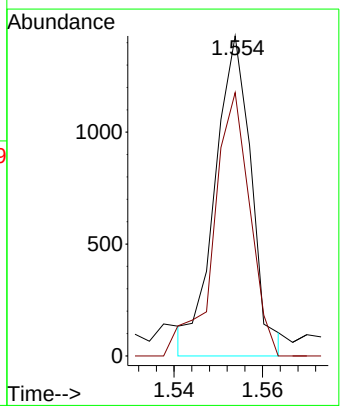


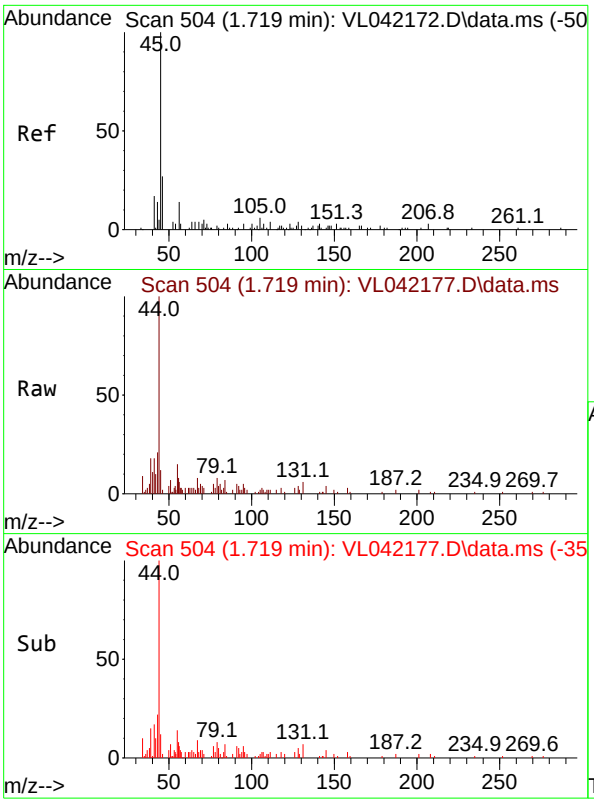




#8
Dichlorotetrafluoroethane
Concen: 0.036 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion: 85 Resp: 815

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 82.3 | 52.4 | 78.6# |



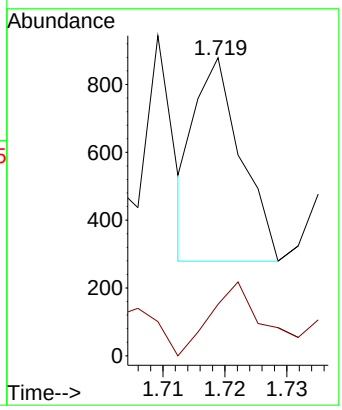


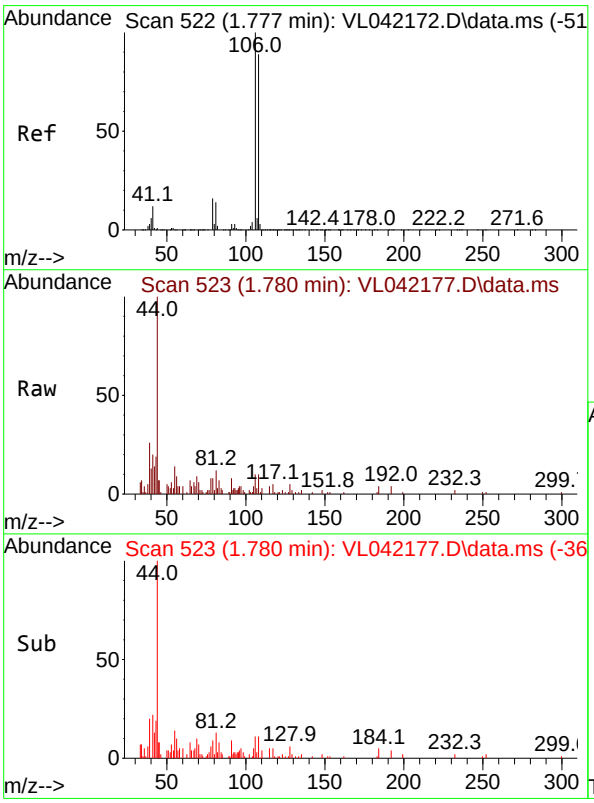

#13
Ethanol
Concen: 0.329 ppbv
RT: 1.719 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion: 45 Resp: 312

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 0.0 | 20.2 | 80.8# |

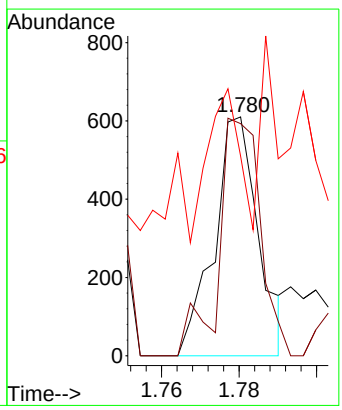


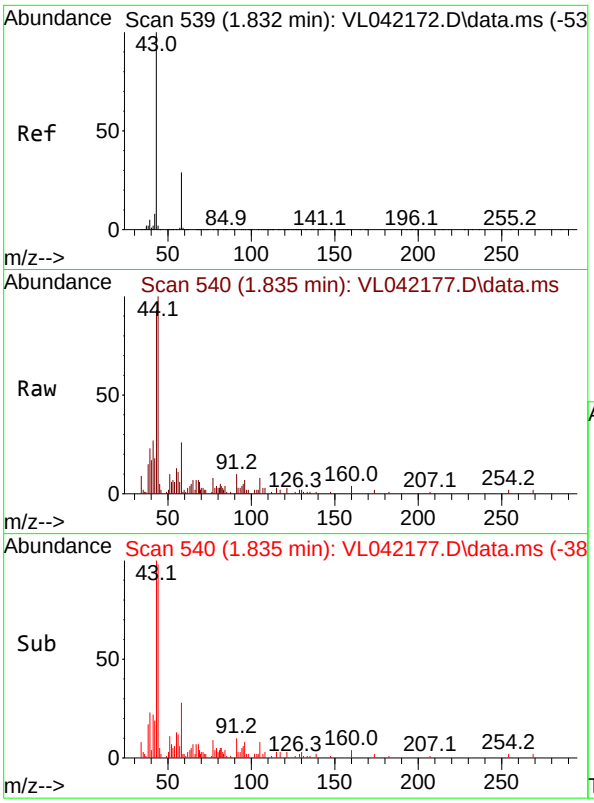




#14
Bromoethene
Concen: 0.060 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion:108 Resp: 482

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 106 | 100.4 | 86.8 | 130.2 |
| 79 | 208.5 | 15.0 | 22.6# |



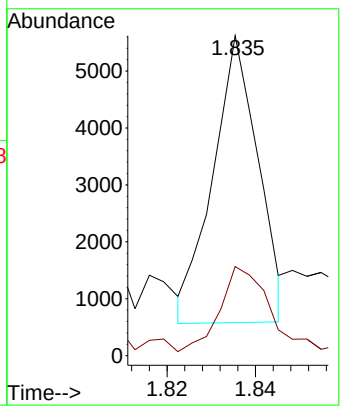


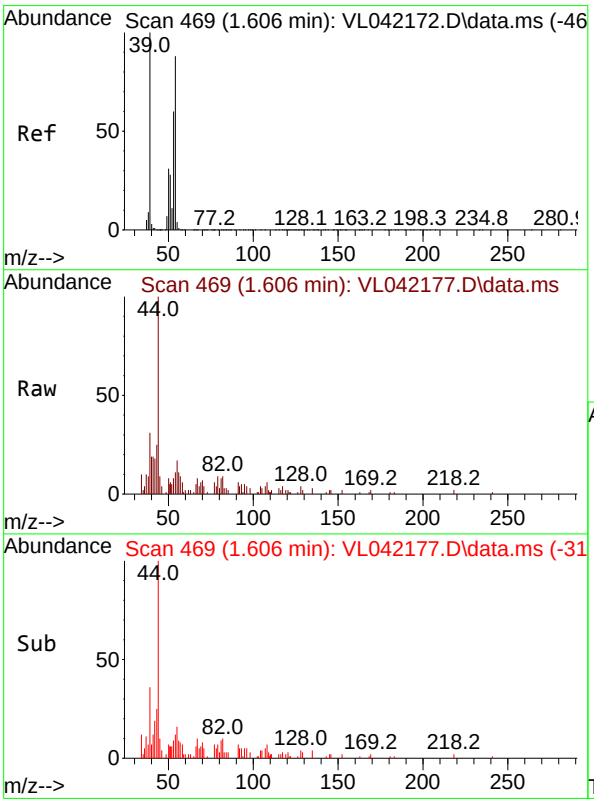

#15
Acetone
Concen: 0.144 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion: 43 Resp: 3574

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 48.5 | 23.2 | 34.8# |

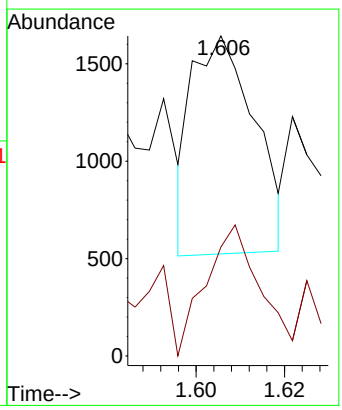


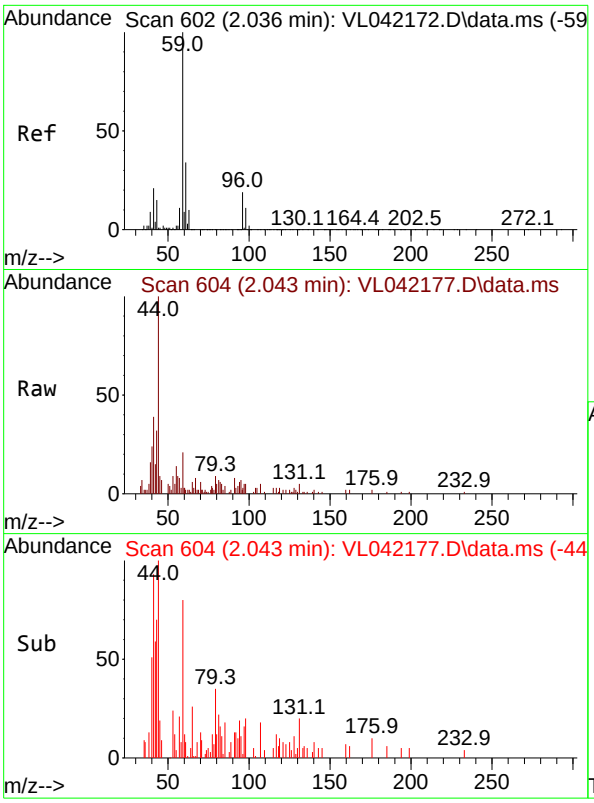




#16
1,3-Butadiene
Concen: 0.098 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion: 39 Resp: 1101

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 113.1 | 60.7 | 91.1# |



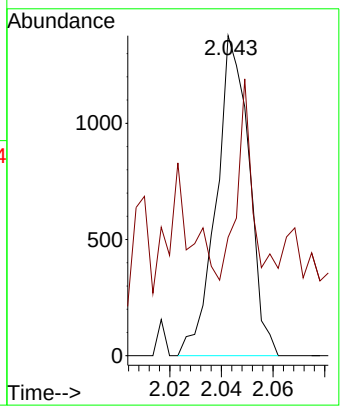


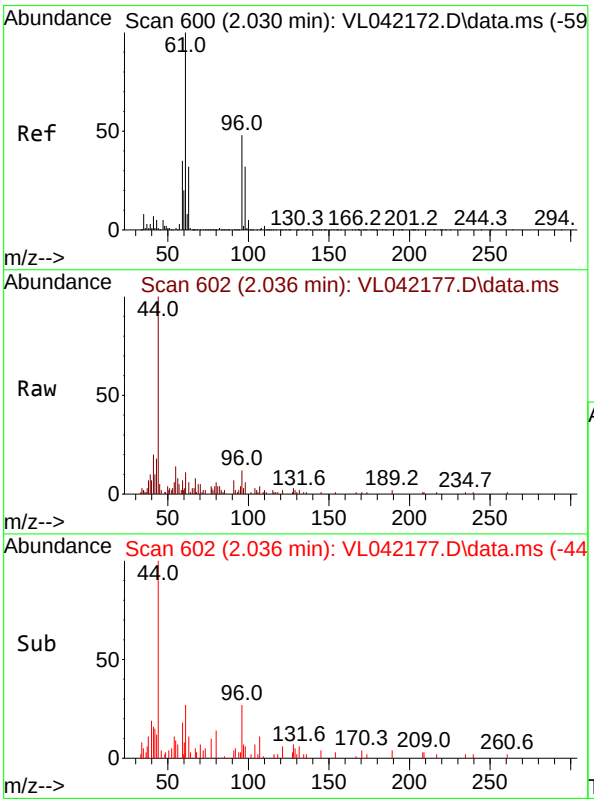

#17
tert-Butyl alcohol
Concen: 0.039 ppbv
RT: 2.043 min Scan# 6
Delta R.T. 0.006 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion: 59 Resp: 1215

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 107.2 | 8.9 | 13.3# |

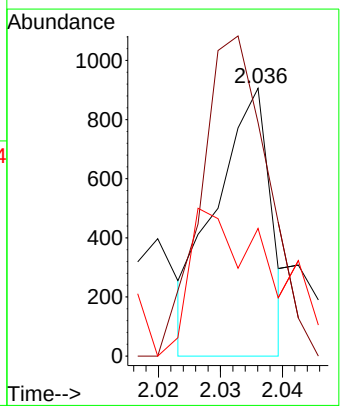


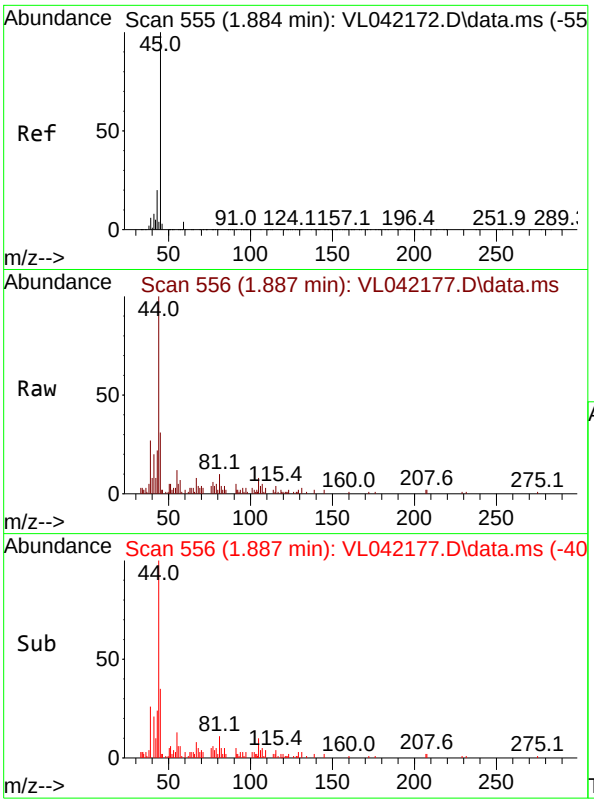




#18
1,1-Dichloroethene
Concen: 0.057 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.006 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion: 96 Resp: 560

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 87.3 | 167.6 | 251.4# |
| 98 | 56.8 | 53.5 | 80.3 |



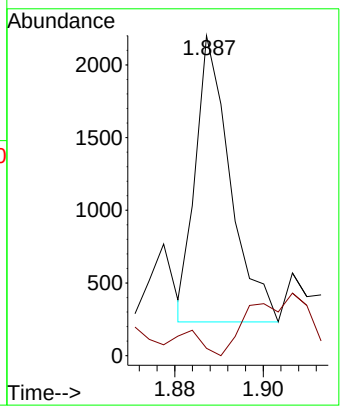


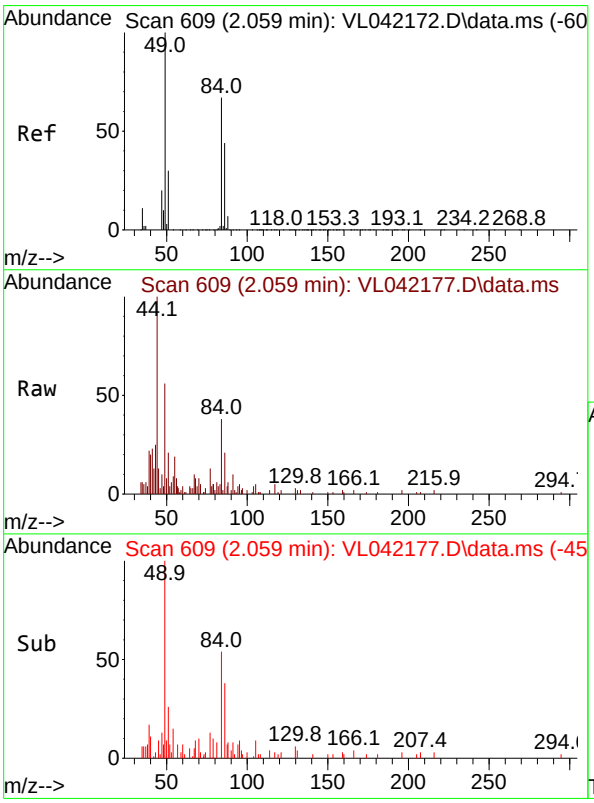

#19
Isopropyl Alcohol
Concen: 0.076 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion: 45 Resp: 1071

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 0.0 | 36.9 | 55.3# |

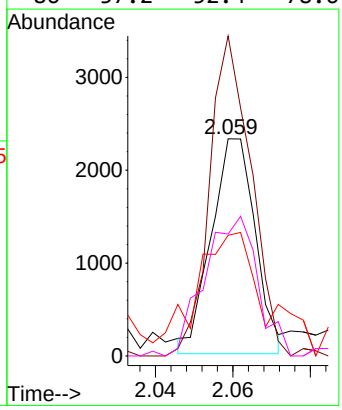


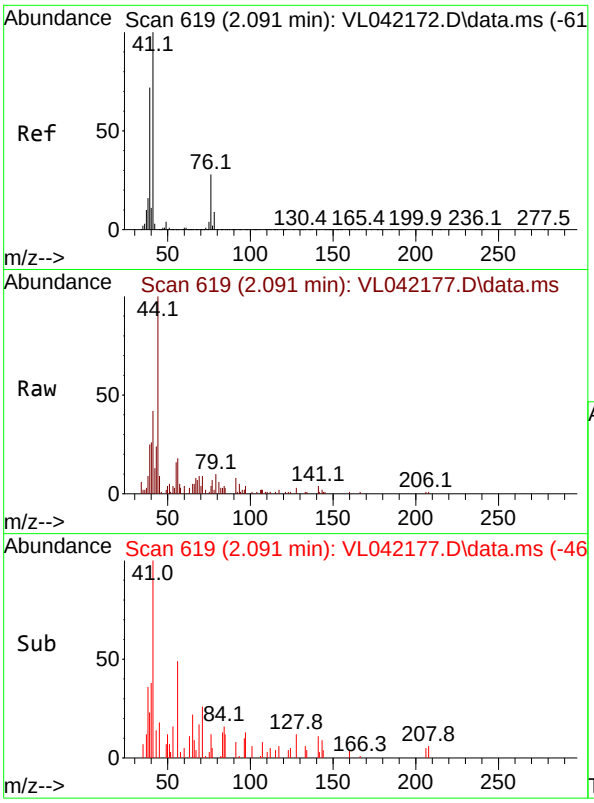




#20
Methylene Chloride
Concen: 0.197 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion: 84 Resp: 1823

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 156.6 | 120.2 | 180.4 |
| 51 | 34.6 | 37.4 | 56.0# |
| 86 | 57.2 | 52.4 | 78.6 |



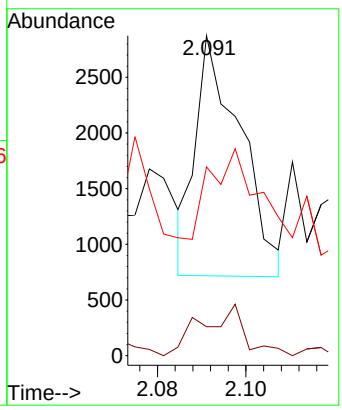


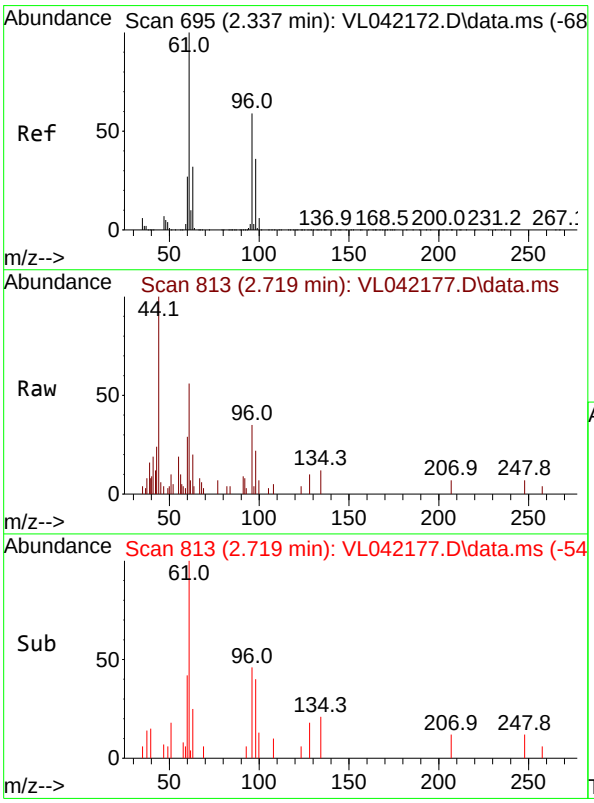

#21
Allyl Chloride
Concen: 0.086 ppbv
RT: 2.091 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion: 41 Resp: 1518

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 25.9 | 24.1 | 36.1 |
| 39 | 158.8 | 61.1 | 91.7# |

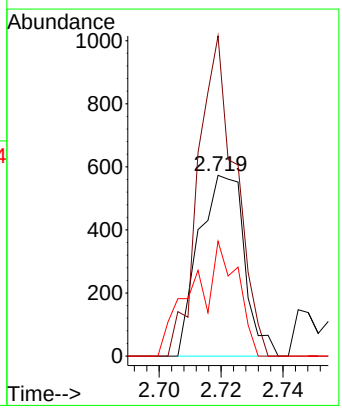


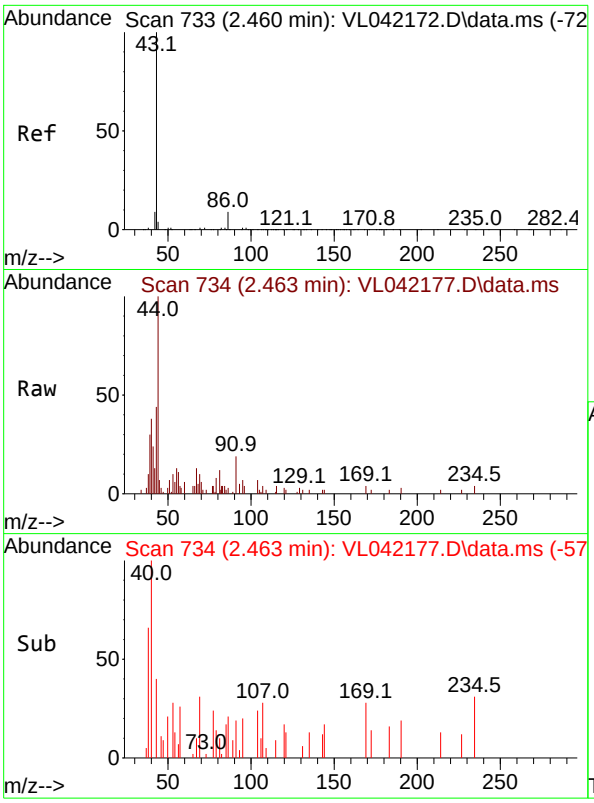




#22
trans-1,2-Dichloroethene
Concen: 0.051 ppbv
RT: 2.719 min Scan# 813
Delta R.T. 0.382 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion: 96 Resp: 586

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 177.1 | 136.6 | 204.8 |
| 98 | 63.5 | 49.4 | 74.2 |



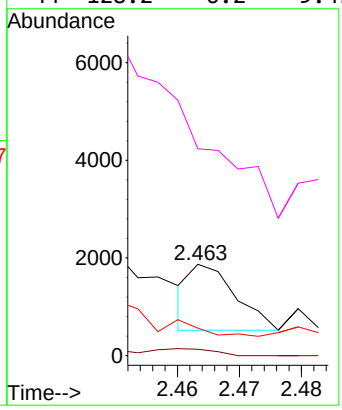


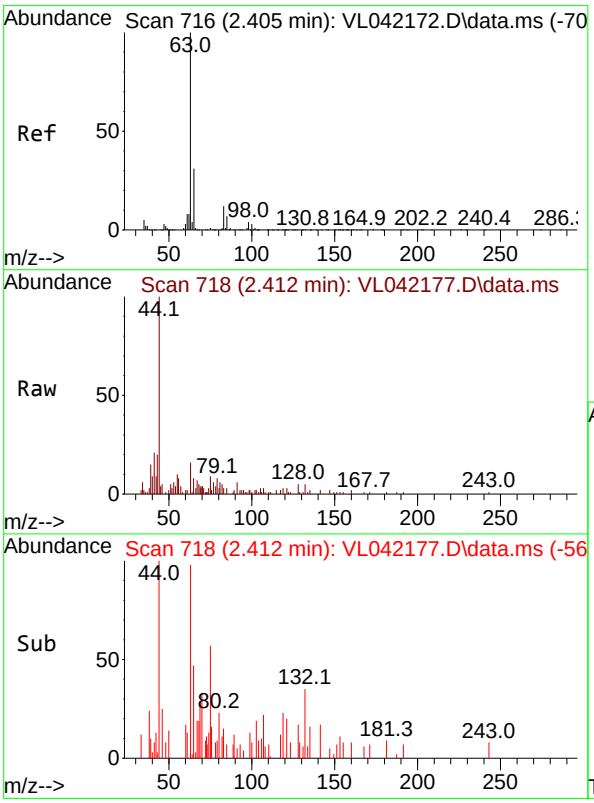

#23
Vinyl Acetate
Concen: 0.067 ppbv
RT: 2.463 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion: 43 Resp: 689

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 9.7 | 5.5 | 8.3# |
| 42 | 6.8 | 8.6 | 13.0# |
| 44 | 128.2 | 6.2 | 9.4# |

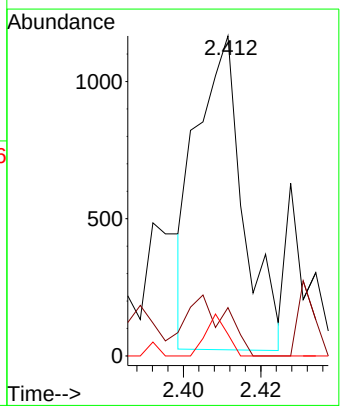


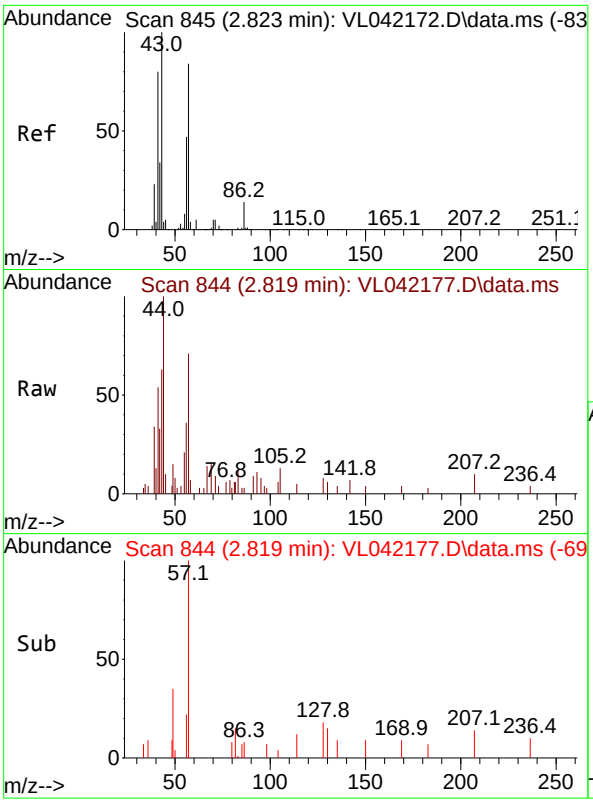




#24
1,1-Dichloroethane
Concen: 0.046 ppbv
RT: 2.412 min Scan# 718
Delta R.T. 0.006 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion: 63 Resp: 961

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 16.8 | 2.3 | 6.8# |
| 100 | 7.6 | 1.6 | 4.7# |



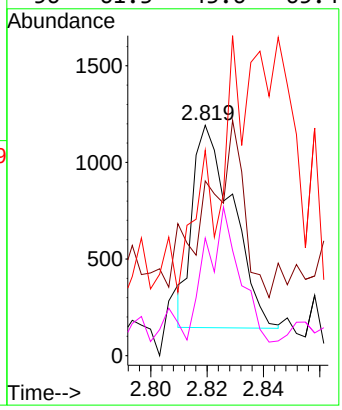


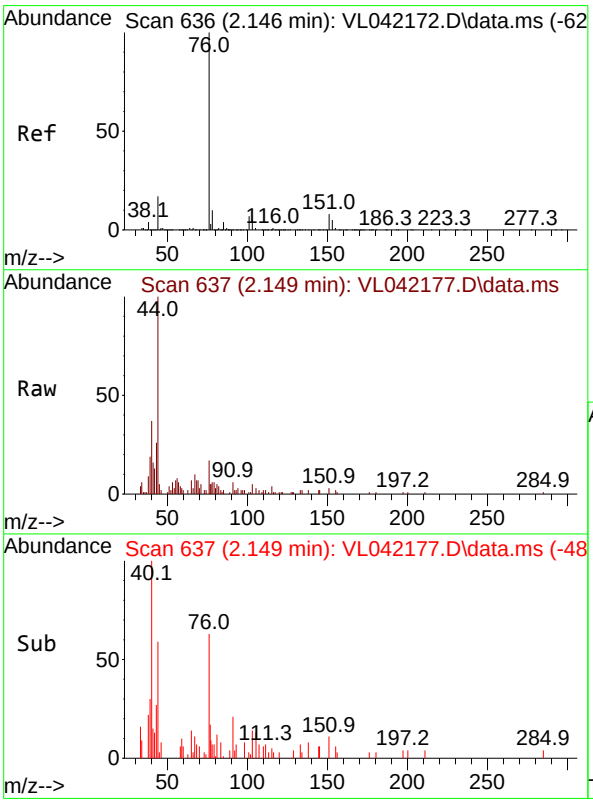

#26
Hexane
Concen: 0.042 ppbv
RT: 2.819 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion: 57 Resp: 1040

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 179.4 | 76.6 | 114.8# |
| 43 | 351.5 | 207.8 | 311.8# |
| 56 | 61.3 | 43.6 | 65.4 |

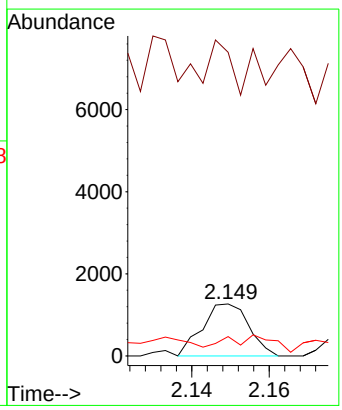


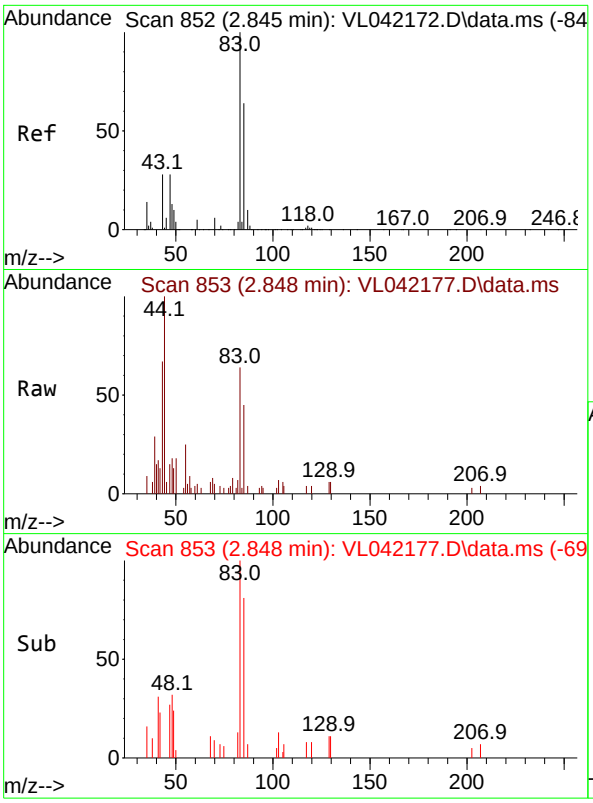




#27
Carbon Disulfide
Concen: 0.040 ppbv
RT: 2.149 min Scan# 637
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion: 76 Resp: 1061

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 0.0 | 14.7 | 22.1# |
| 78 | 112.4 | 9.3 | 13.9# |



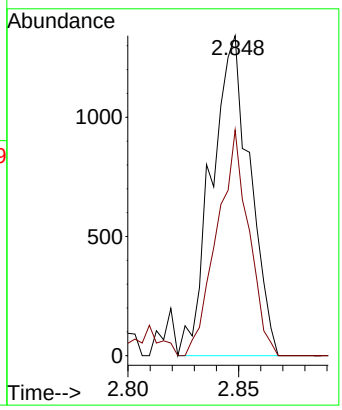


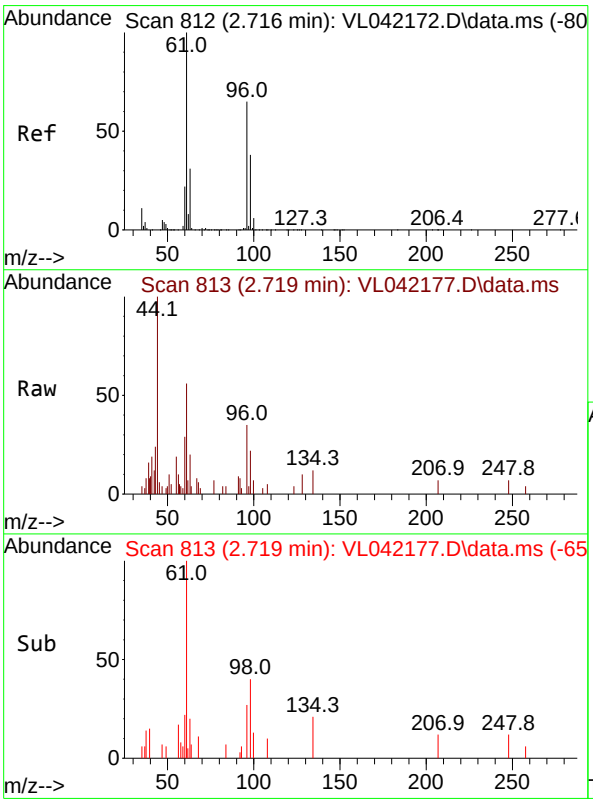

#29
Chloroform
Concen: 0.044 ppbv
RT: 2.848 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion: 83 Resp: 1619

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 70.6 | 51.4 | 77.2 |

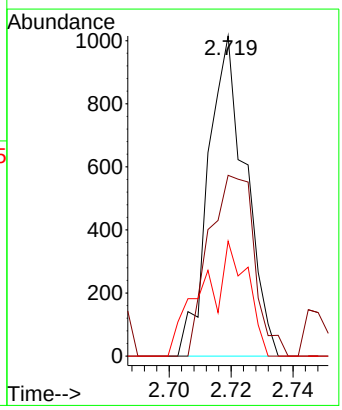


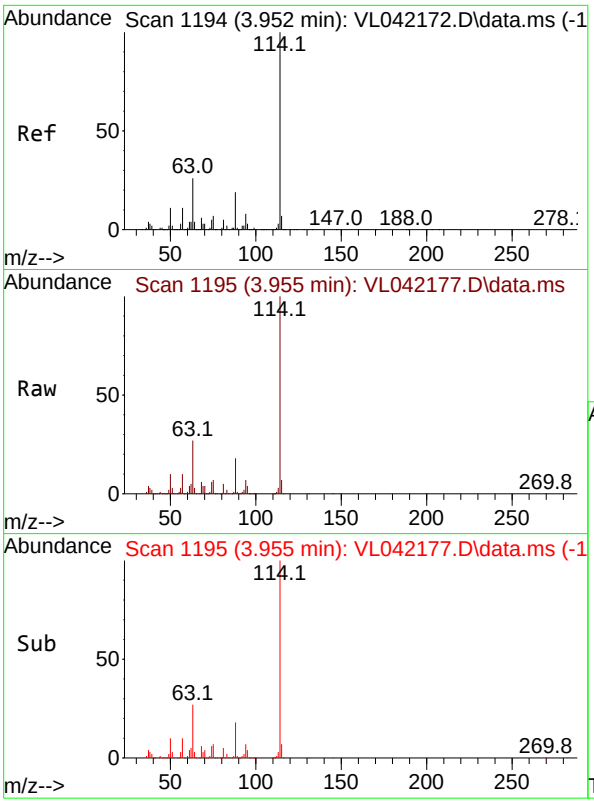




#31
cis-1,2-Dichloroethene
Concen: 0.033 ppbv
RT: 2.719 min Scan# 813
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion: 61 Resp: 846

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 56.5 | 51.8 | 77.8 |
| 98 | 35.9 | 30.6 | 46.0 |



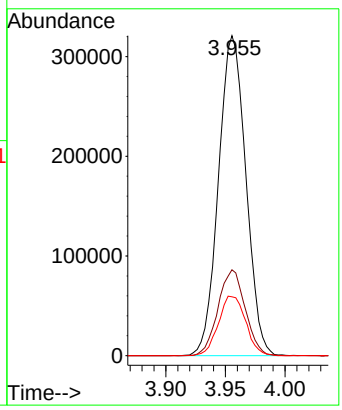


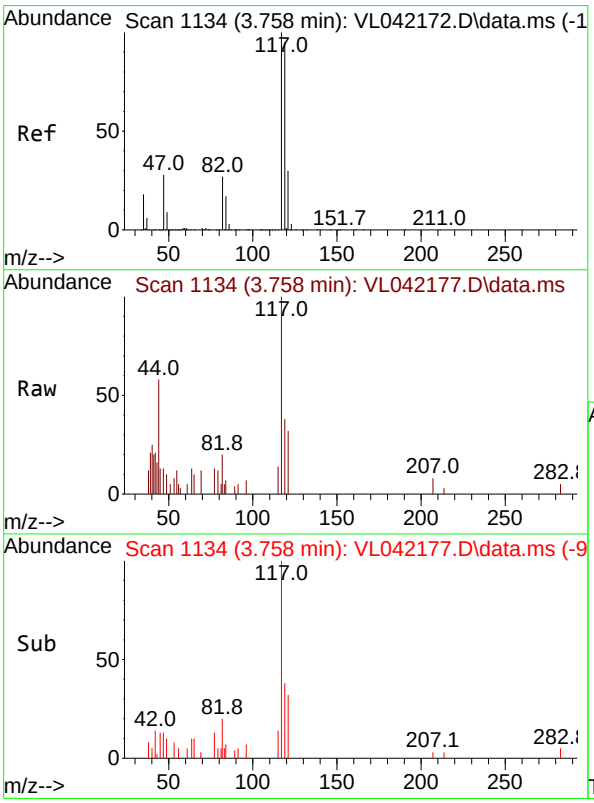

#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion:114 Resp: 512915

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 26.6 | 20.7 | 31.1 |
| 88 | 18.6 | 15.0 | 22.4 |

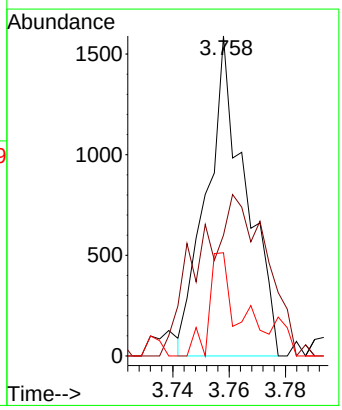


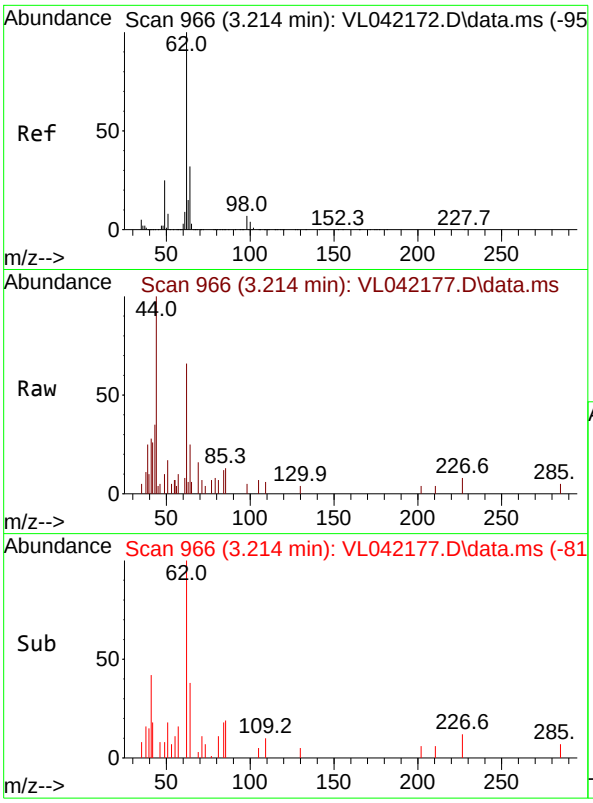




#35
Carbon Tetrachloride
Concen: 0.039 ppbv
RT: 3.758 min Scan# 1134
Delta R.T. -0.000 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion:117 Resp: 1520

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 22.1 | 76.2 | 114.2# |
| 121 | 32.3 | 24.2 | 36.4 |



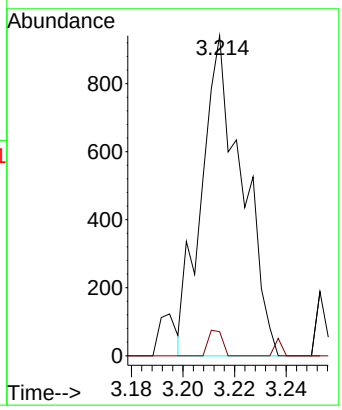


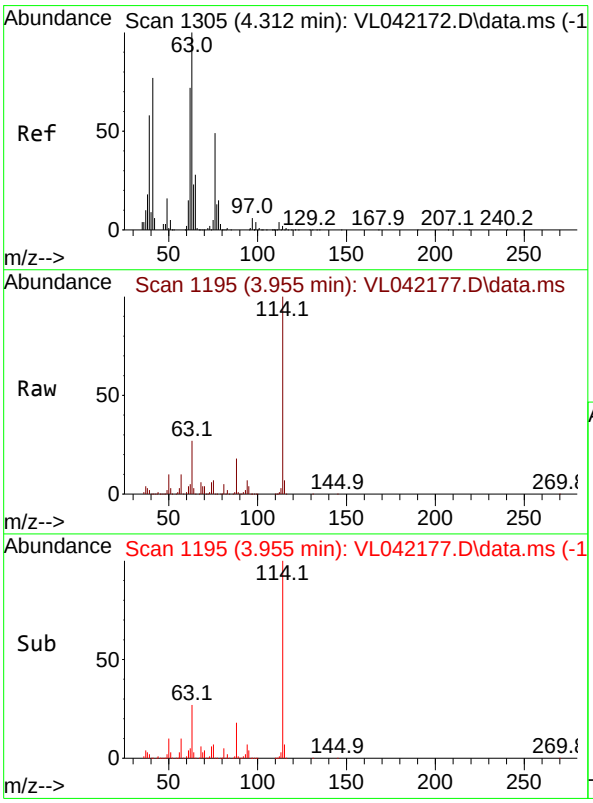

#37
1,2-Dichloroethane
Concen: 0.035 ppbv
RT: 3.214 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion: 62 Resp: 1029

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 2.7 | 5.4 | 8.2# |

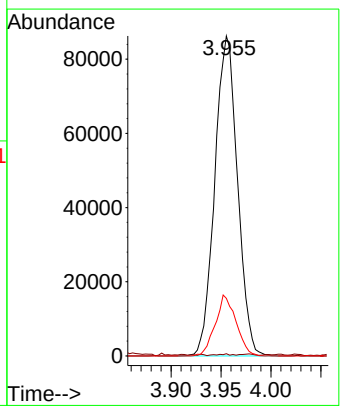


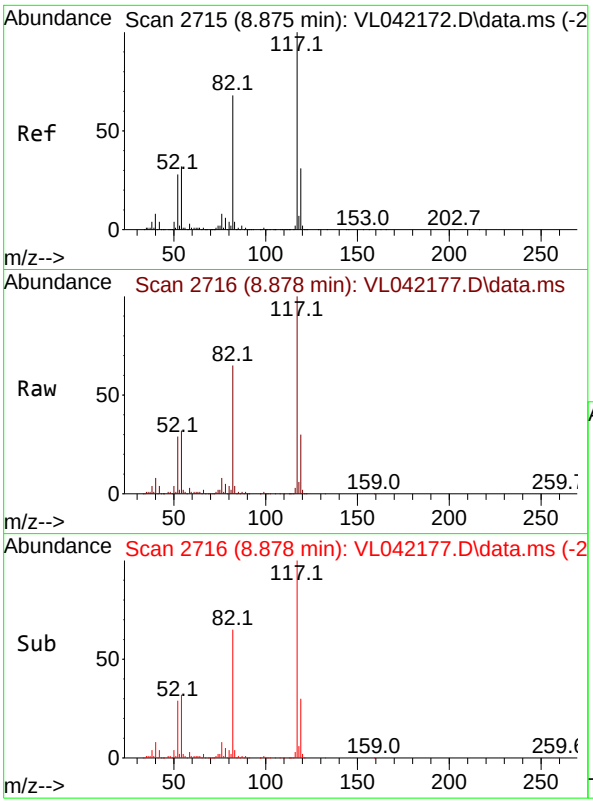




#39
1,2-Dichloropropane
Concen: 7.372 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.356 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion: 63 Resp: 136518

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 0.4 | 61.7 | 92.5# |
| 62 | 18.0 | 57.6 | 86.4# |



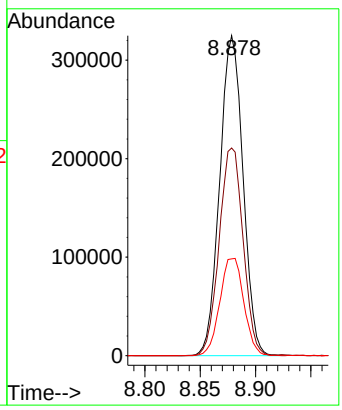


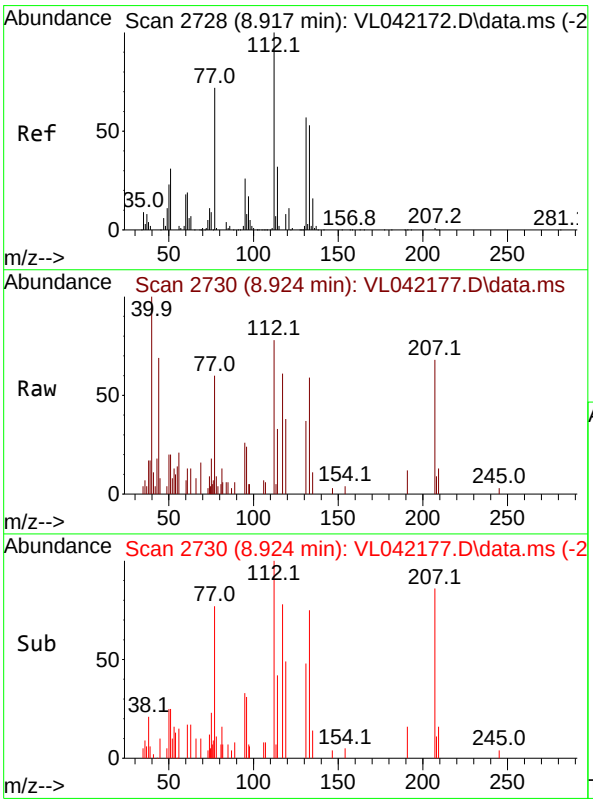

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion:117 Resp: 475617

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 66.7 | 55.8 | 83.6 |
| 119 | 31.5 | 25.5 | 38.3 |

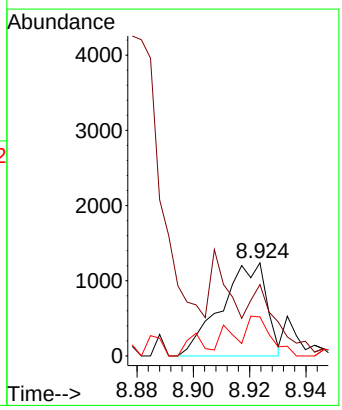


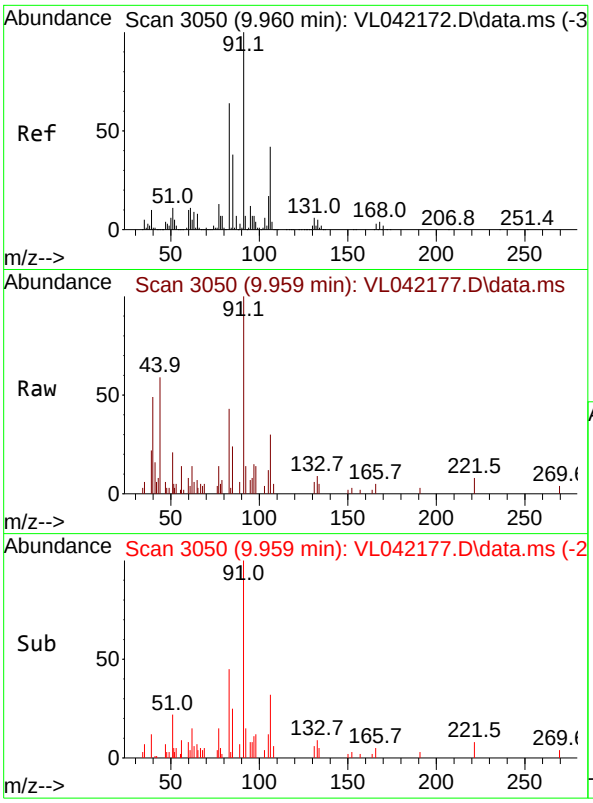




#57
Chlorobenzene
Concen: 0.031 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. 0.006 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion:112 Resp: 1382

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 32.1 | 58.2 | 87.2# |
| 114 | 41.8 | 29.1 | 35.5# |



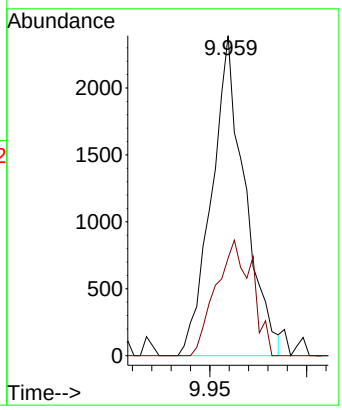


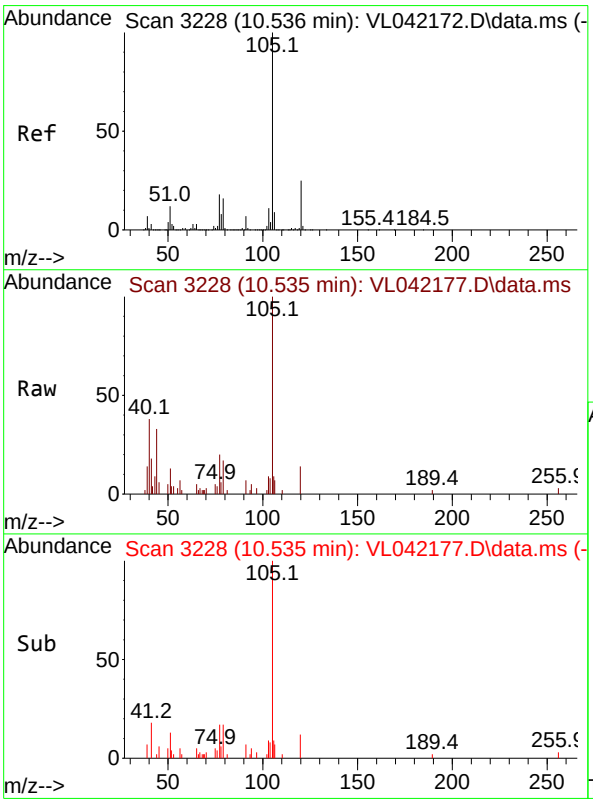

#60
o-Xylene
Concen: 0.042 ppbv
RT: 9.959 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion: 91 Resp: 2844

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 39.4 | 20.8 | 62.5 |

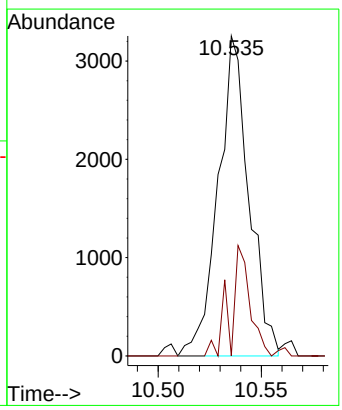


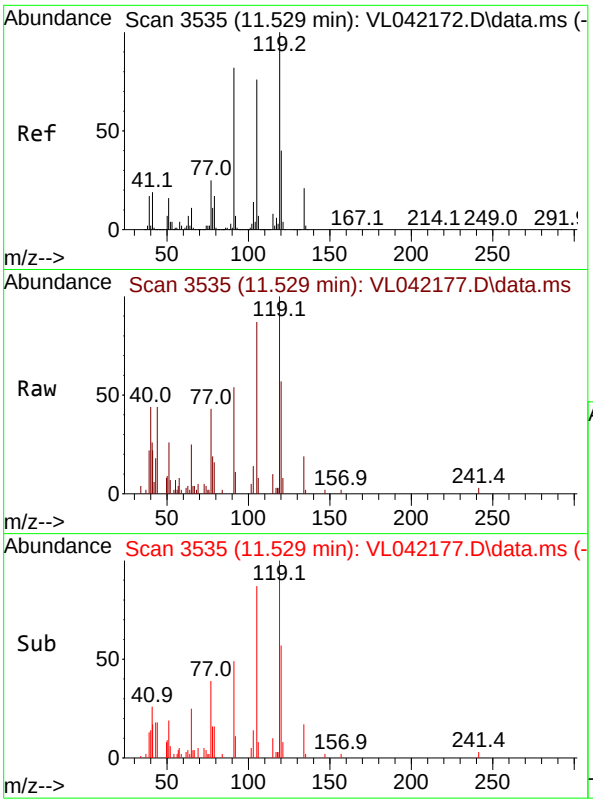




#62
Isopropylbenzene
Concen: 0.033 ppbv
RT: 10.535 min Scan# 3228
Delta R.T. -0.000 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion:105 Resp: 3380

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 22.3 | 19.9 | 29.9 |



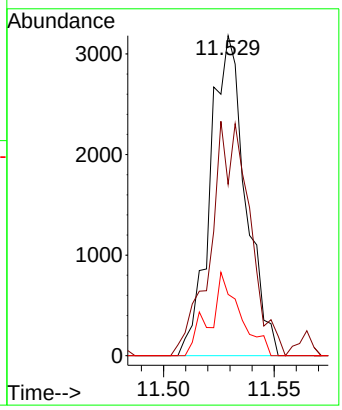


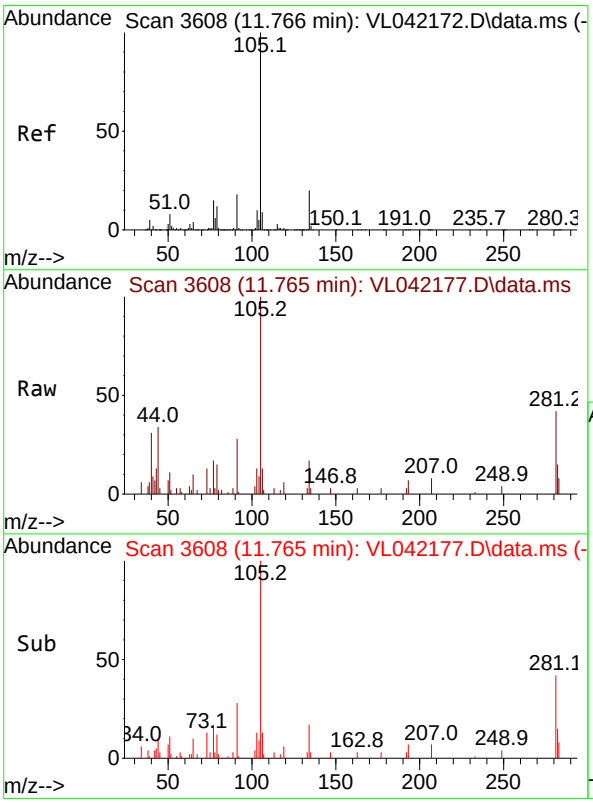

#65
tert-Butylbenzene
Concen: 0.038 ppbv
RT: 11.529 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion:119 Resp: 3543

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 83.5 | 66.0 | 99.0 |
| 134 | 22.4 | 16.7 | 25.1 |

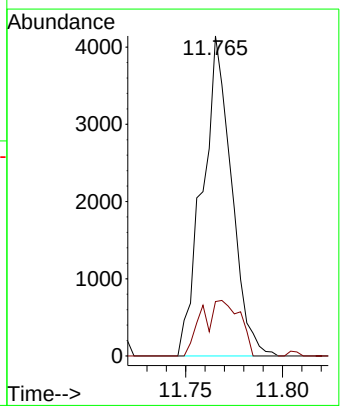


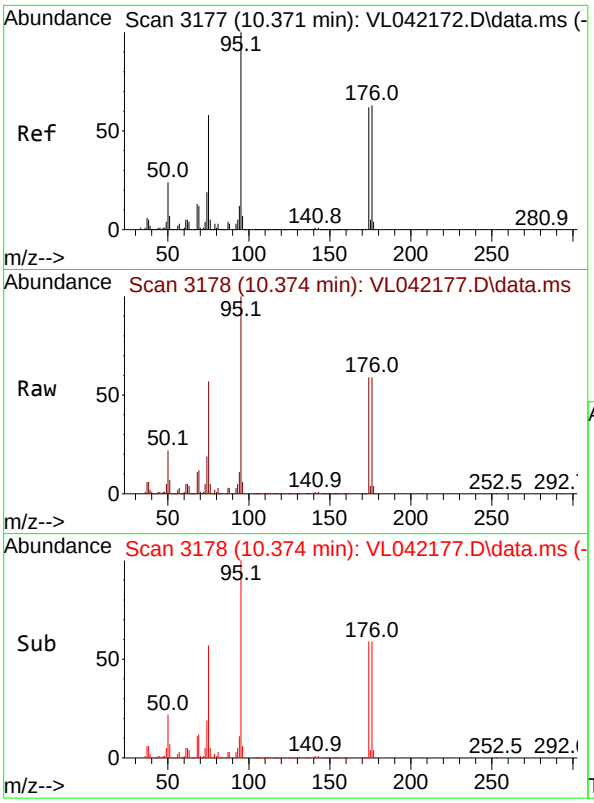




#67
sec-Butylbenzene
Concen: 0.033 ppbv
RT: 11.765 min Scan# 3608
Delta R.T. -0.000 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion:105 Resp: 4317

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 22.8 | 15.5 | 23.3 |



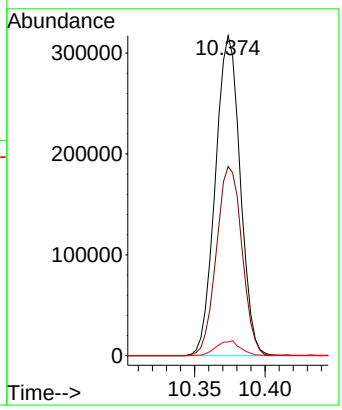


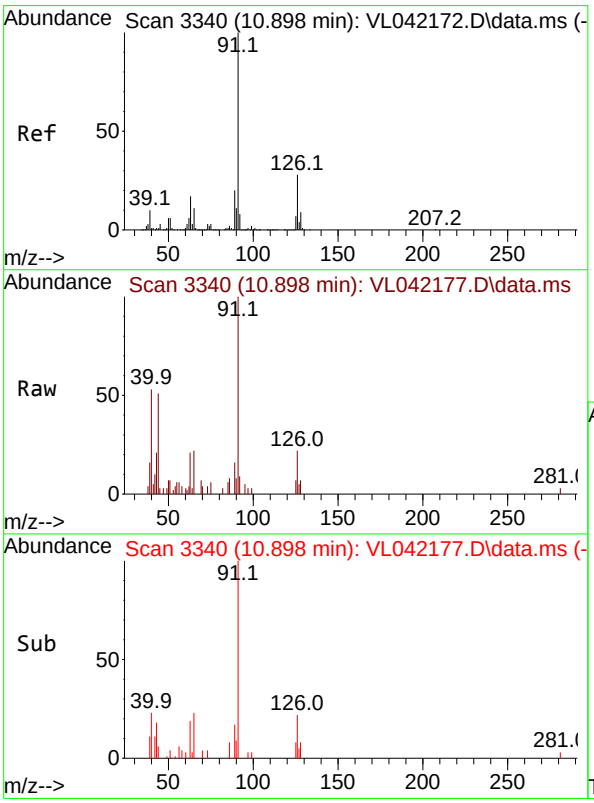

#68
1-Bromo-4-Fluorobenzene
Concen: 9.983 ppbv
RT: 10.374 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion: 95 Resp: 389935

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 61.2 | 50.6 | 76.0 |
| 175 | 4.6 | 3.8 | 5.6 |

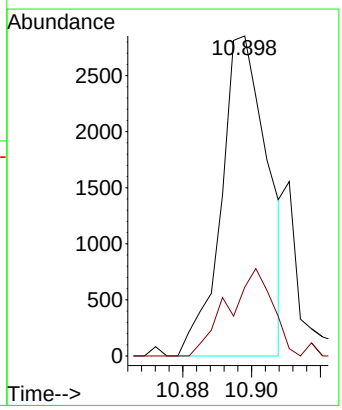


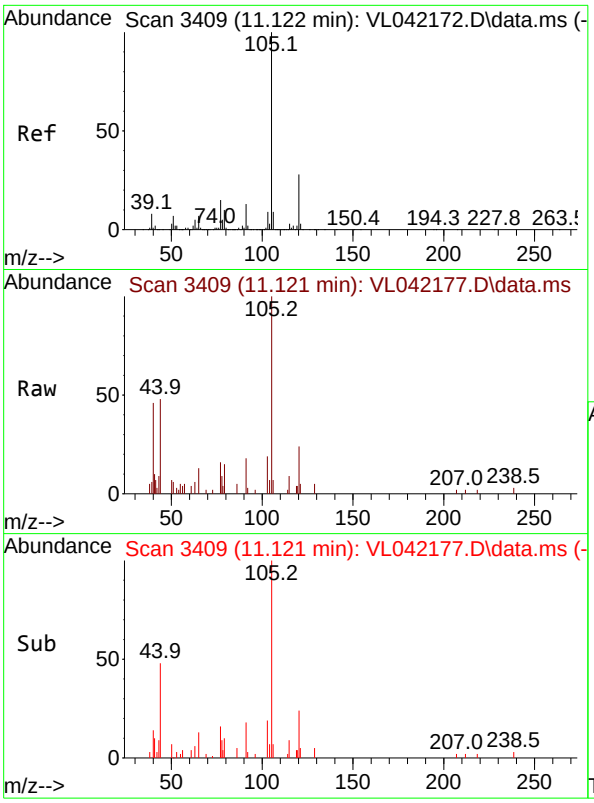




#71
2-Chlorotoluene
Concen: 0.034 ppbv
RT: 10.898 min Scan# 3340
Delta R.T. -0.000 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion: 91 Resp: 2666

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 27.2 | 11.6 | 46.4 |



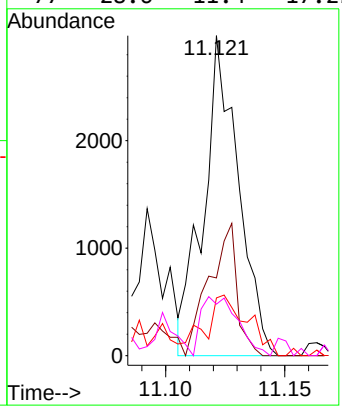


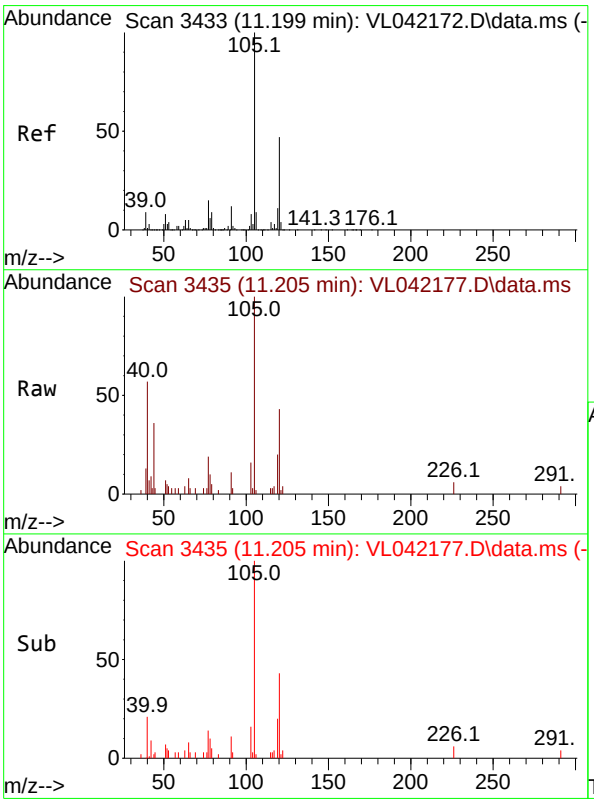

#72
4-Ethyltoluene
Concen: 0.036 ppbv
RT: 11.121 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion:105 Resp: 3017

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.5 | 23.4 | 35.0# |
| 91 | 34.0 | 10.3 | 15.5# |
| 77 | 28.6 | 11.4 | 17.2# |

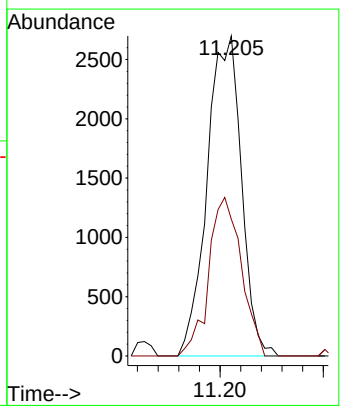


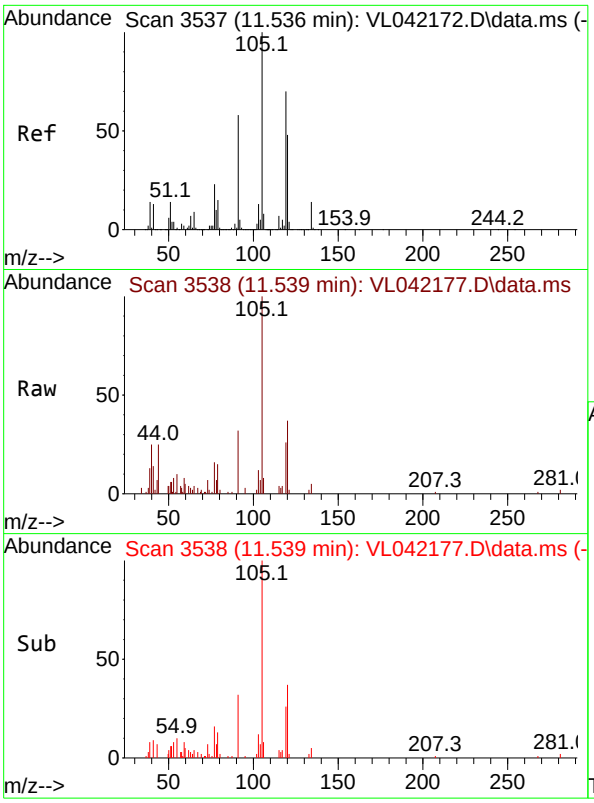




#73
1,3,5-Trimethylbenzene
Concen: 0.042 ppbv
RT: 11.205 min Scan# 3435
Delta R.T. 0.006 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion:105 Resp: 3101

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 42.8 | 37.4 | 56.0 |



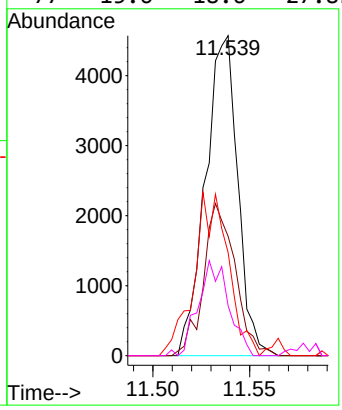


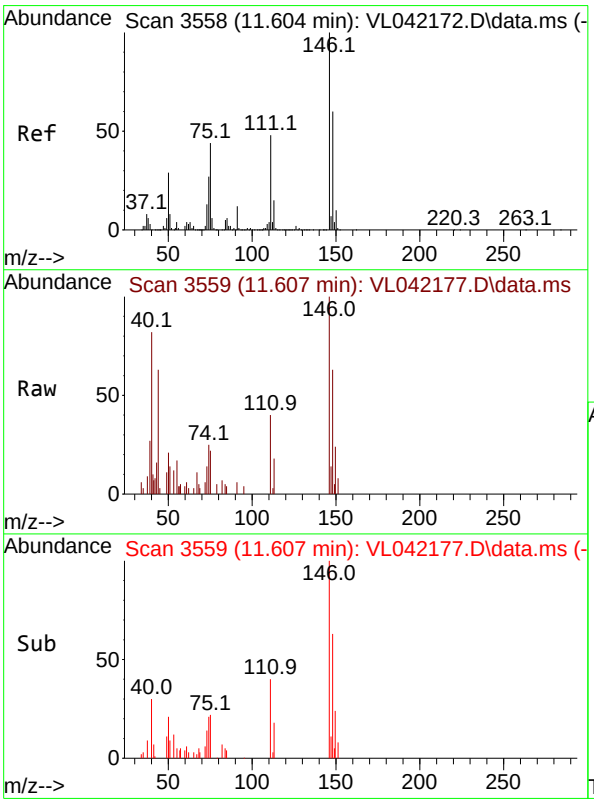

#74
1,2,4-Trimethylbenzene
Concen: 0.063 ppbv
RT: 11.539 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion:105 Resp: 5313

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 37.3 | 38.6 | 58.0# |
| 91 | 26.8 | 46.2 | 69.2# |
| 77 | 15.6 | 18.6 | 27.8# |

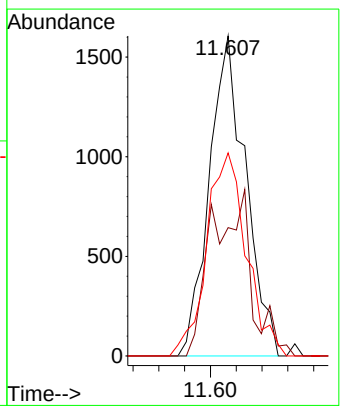


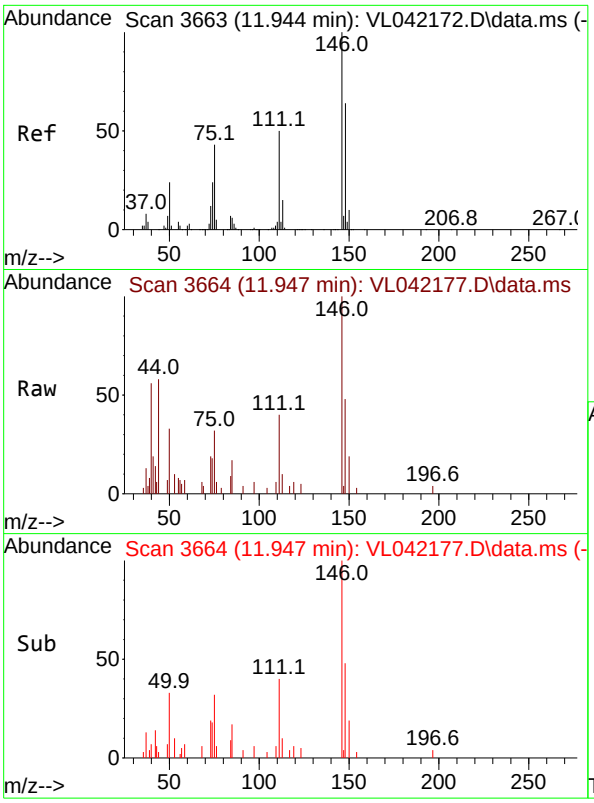




#75
1,3-Dichlorobenzene
Concen: 0.034 ppbv
RT: 11.607 min Scan# 3559
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion:146 Resp: 1577

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 56.6 | 23.8 | 71.2 |
| 148 | 69.2 | 31.9 | 95.9 |



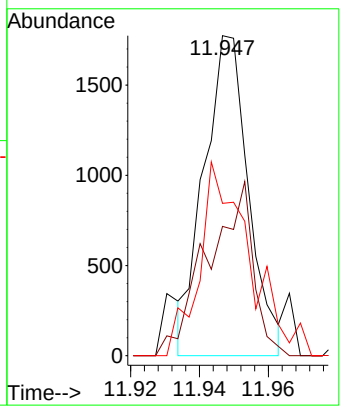


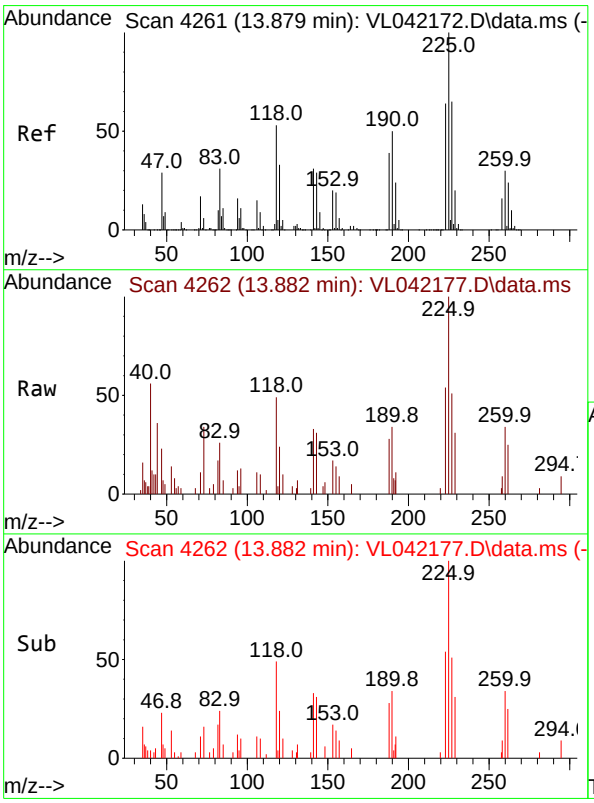

#77
1,2-Dichlorobenzene
Concen: 0.035 ppbv
RT: 11.947 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion:146 Resp: 1591

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 55.6 | 24.8 | 74.3 |
| 148 | 68.3 | 31.6 | 94.8 |

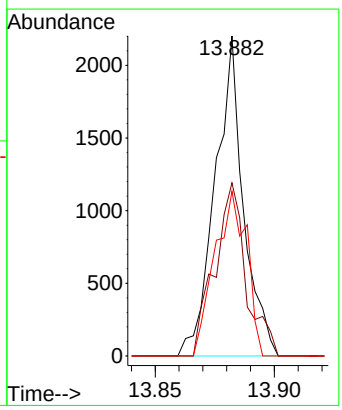



#78
Hexachloro-1,3-Butadiene
Concen: 0.040 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion:225 Resp: 1821

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 59.6 | 50.6 | 76.0 |
| 227 | 58.0 | 51.2 | 76.8 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042178.D
Acq On : 27 Mar 2025 11:36
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Quant Time: Mar 28 01:37:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 2.784 | 49 | 173372 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.952 | 114 | 499360 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.878 | 117 | 473077 | 10.000 | ppbv | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.374 | 95 | 387777 | 9.981 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 99.800% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.495 | 85 | 358962 | 14.023 | ppbv | | 99 |
| 3) Chlorodifluoromethane | 1.473 | 51 | 366164 | 14.002 | ppbv | | 98 |
| 4) Chloromethane | 1.531 | 50 | 148133 | 14.160 | ppbv | | 98 |
| 5) Vinyl Chloride | 1.576 | 62 | 141938 | 13.304 | ppbv | | 97 |
| 6) Bromomethane | 1.667 | 94 | 65113 | 13.734 | ppbv | | 99 |
| 7) Chloroethane | 1.703 | 64 | 58820 | 14.007 | ppbv | | 99 |
| 8) Dichlorotetrafluoroethane | 1.550 | 85 | 314834 | 14.442 | ppbv | | 98 |
| 9) Propene | 1.482 | 41 | 163799 | 13.902 | ppbv | | 95 |
| 10) Heptane | 4.972 | 43 | 446949 | 14.019 | ppbv | | 99 |
| 11) Trichlorofluoromethane | 1.874 | 101 | 349967 | 14.050 | ppbv | | 98 |
| 12) 1,1,2-Trichlorotrifluo... | 2.136 | 101 | 295217 | 14.419 | ppbv | | 99 |
| 13) Ethanol | 1.719 | 45 | 7382 | 8.001 | ppbv | | 92 |
| 14) Bromoethene | 1.780 | 108 | 106436 | 13.571 | ppbv | | 98 |
| 15) Acetone | 1.832 | 43 | 296254 | 12.218 | ppbv | | 98 |
| 16) 1,3-Butadiene | 1.605 | 39 | 150122 | 13.766 | ppbv | | 100 |
| 17) tert-Butyl alcohol | 2.039 | 59 | 416362 | 13.787 | ppbv | | 99 |
| 18) 1,1-Dichloroethene | 2.029 | 96 | 131720 | 13.762 | ppbv | | 99 |
| 19) Isopropyl Alcohol | 1.884 | 45 | 179117 | 13.093 | ppbv | | 100 |
| 20) Methylene Chloride | 2.059 | 84 | 113183 | 12.533 | ppbv | | 95 |
| 21) Allyl Chloride | 2.094 | 41 | 239440 | 14.002 | ppbv | | 99 |
| 22) trans-1,2-Dichloroethene | 2.337 | 96 | 149455 | 13.362 | ppbv | | 98 |
| 23) Vinyl Acetate | 2.460 | 43 | 138419 | 13.736 | ppbv | # | 96 |
| 24) 1,1-Dichloroethane | 2.405 | 63 | 298760 | 14.570 | ppbv | | 99 |
| 25) Ethyl Acetate | 2.832 | 43 | 871882 | 13.855 | ppbv | | 100 |
| 26) Hexane | 2.822 | 57 | 344636 | 14.178 | ppbv | | 98 |
| 27) Carbon Disulfide | 2.146 | 76 | 370022 | 14.196 | ppbv | | 97 |
| 28) Methyl tert-Butyl Ether | 2.437 | 73 | 216463 | 14.303 | ppbv | | 95 |
| 29) Chloroform | 2.845 | 83 | 508614 | 14.297 | ppbv | | 100 |
| 30) Cyclohexane | 3.852 | 84 | 296458 | 14.040 | ppbv | | 99 |
| 31) cis-1,2-Dichloroethene | 2.719 | 61 | 351945 | 14.262 | ppbv | | 97 |
| 32) 1,1,1-Trichloroethane | 3.363 | 97 | 547329 | 13.448 | ppbv | | 99 |
| 34) 2-Butanone | 2.554 | 43 | 497020 | 13.726 | ppbv | | 99 |
| 35) Carbon Tetrachloride | 3.758 | 117 | 543385 | 14.140 | ppbv | | 100 |
| 36) Benzene | 3.651 | 78 | 699549 | 14.131 | ppbv | | 98 |
| 37) 1,2-Dichloroethane | 3.214 | 62 | 416544 | 14.697 | ppbv | | 99 |
| 38) Trichloroethene | 4.541 | 130 | 283430 | 13.715 | ppbv | | 98 |
| 39) 1,2-Dichloropropane | 4.308 | 63 | 257891 | 14.304 | ppbv | | 99 |
| 40) 1,4-Dioxane | 4.577 | 88 | 124925 | 13.354 | ppbv | # | 91 |
| 41) Tetrahydrofuran | 3.049 | 42 | 294634 | 14.301 | ppbv | | 100 |
| 42) Bromodichloromethane | 4.483 | 83 | 587772 | 15.043 | ppbv | | 99 |
| 43) Methyl Methacrylate | 4.874 | 69 | 295300 | 14.130 | ppbv | | 99 |
| 44) 2,2,4-Trimethylpentane | 4.635 | 57 | 1180275 | 14.108 | ppbv | | 99 |
| 45) t-1,3-Dichloropropene | 6.405 | 75 | 329360 | 14.649 | ppbv | | 96 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042178.D
Acq On : 27 Mar 2025 11:36
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Quant Time: Mar 28 01:37:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.593 | 75 | 400813 | 14.542 | ppbv | | 98 |
| 47) 1,1,2-Trichloroethane | 6.577 | 97 | 273137 | 14.331 | ppbv | | 98 |
| 48) Dibromochloromethane | 7.383 | 129 | 482431 | 14.936 | ppbv | | 100 |
| 49) Bromoform | 9.480 | 173 | 427143 | 14.730 | ppbv | | 99 |
| 50) 4-Methyl-2-Pentanone | 5.745 | 43 | 755146 | 13.155 | ppbv | | 99 |
| 51) 2-Hexanone | 7.431 | 43 | 619419 | 13.005 | ppbv | # | 99 |
| 52) Tetrachloroethene | 8.221 | 164 | 258356 | 13.159 | ppbv | | 95 |
| 53) Toluene | 6.926 | 91 | 829648 | 14.137 | ppbv | | 100 |
| 54) 1,2-Dibromoethane | 7.645 | 107 | 381823 | 14.359 | ppbv | | 97 |
| 56) 1,1,1,2-Tetrachloroethane | 8.920 | 131 | 365410 | 14.032 | ppbv | | 99 |
| 57) Chlorobenzene | 8.917 | 112 | 618201 | 13.777 | ppbv | | 100 |
| 58) Ethyl Benzene | 9.351 | 91 | 1167096 | 13.889 | ppbv | | 97 |
| 59) m/p-Xylene | 9.548 | 91 | 866684 | 12.901 | ppbv | # | 22 |
| 60) o-Xylene | 9.962 | 91 | 913234 | 13.577 | ppbv | | 99 |
| 61) Styrene | 9.865 | 104 | 474195 | 14.250 | ppbv | | 99 |
| 62) Isopropylbenzene | 10.535 | 105 | 1362416 | 13.544 | ppbv | | 99 |
| 63) 1,1,2,2-Tetrachloroethane | 9.959 | 83 | 551386 | 13.491 | ppbv | | 99 |
| 64) n-propylbenzene | 10.985 | 120 | 356118 | 13.753 | ppbv | | 94 |
| 65) tert-Butylbenzene | 11.529 | 119 | 1200149 | 12.901 | ppbv | | 98 |
| 66) Benzyl Chloride | 11.613 | 91 | 134397 | 13.615 | ppbv | | 100 |
| 67) sec-Butylbenzene | 11.765 | 105 | 1643629 | 12.711 | ppbv | | 99 |
| 69) p-Isopropyltoluene | 11.924 | 119 | 1437016 | 12.906 | ppbv | | 98 |
| 70) n-Butylbenzene | 12.280 | 91 | 1477443 | 12.975 | ppbv | | 99 |
| 71) 2-Chlorotoluene | 10.898 | 91 | 1071432 | 13.724 | ppbv | | 99 |
| 72) 4-Ethyltoluene | 11.121 | 105 | 1136415 | 13.569 | ppbv | | 99 |
| 73) 1,3,5-Trimethylbenzene | 11.202 | 105 | 979783 | 13.395 | ppbv | | 99 |
| 74) 1,2,4-Trimethylbenzene | 11.535 | 105 | 1048874 | 12.447 | ppbv | | 92 |
| 75) 1,3-Dichlorobenzene | 11.607 | 146 | 626015 | 13.545 | ppbv | | 99 |
| 76) 1,4-Dichlorobenzene | 11.668 | 146 | 628694 | 13.668 | ppbv | | 100 |
| 77) 1,2-Dichlorobenzene | 11.947 | 146 | 602844 | 13.396 | ppbv | | 100 |
| 78) Hexachloro-1,3-Butadiene | 13.882 | 225 | 556392 | 12.147 | ppbv | | 99 |
| 79) Naphthalene | 13.513 | 128 | 1258479 | 13.653 | ppbv | | 98 |
| 80) Naphthalene,2-methyl- | 14.455 | 142 | 718900 | 16.018 | ppbv | | 98 |
| 81) 1,2,4-Trichlorobenzene | 13.439 | 180 | 598416 | 14.075 | ppbv | | 99 |

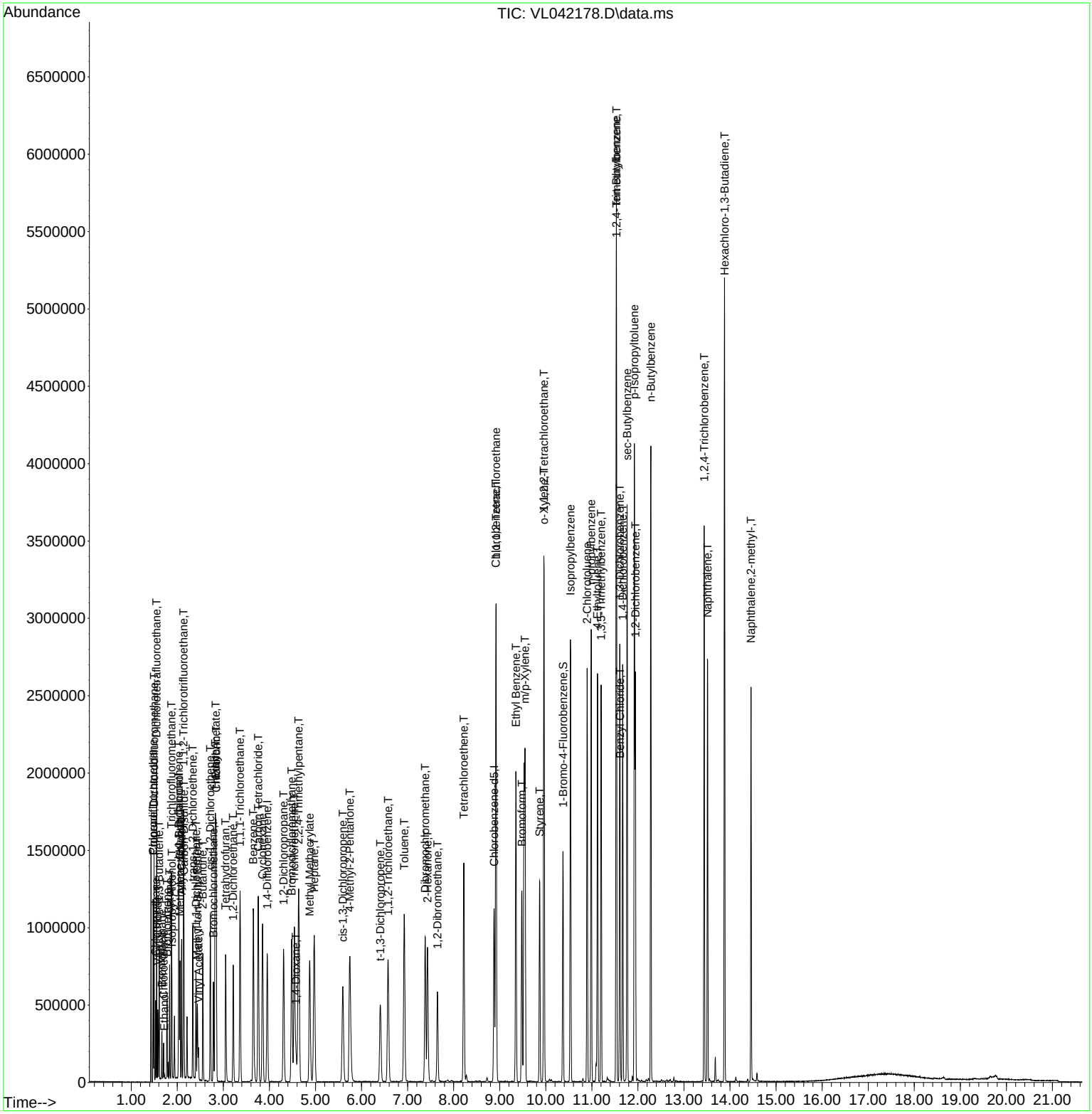
(#) = qualifier out of range (m) = manual integration (+) = signals summed

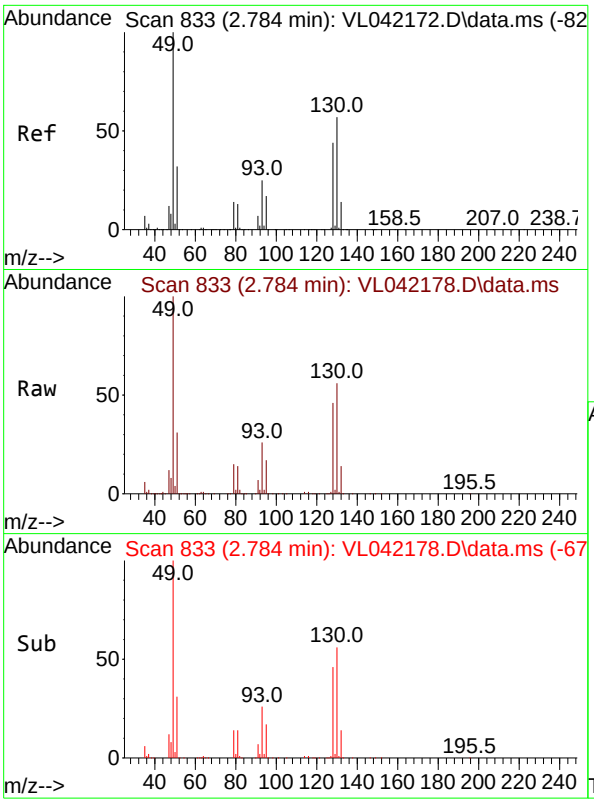
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042178.D
Acq On : 27 Mar 2025 11:36
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Quant Time: Mar 28 01:37:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration



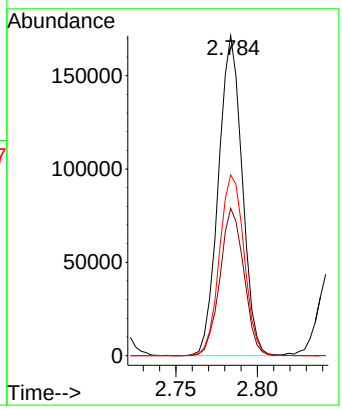


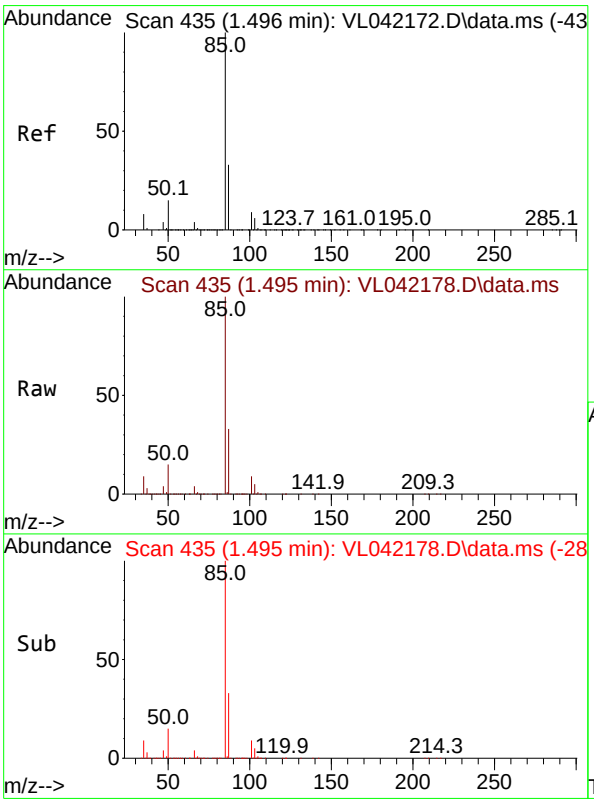

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion: 49 Resp: 173372

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 46.4 | 22.9 | 68.5 |
| 130 | 58.7 | 28.8 | 86.4 |

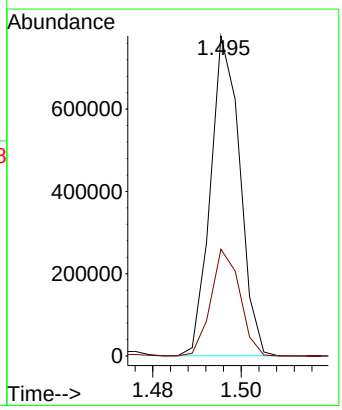


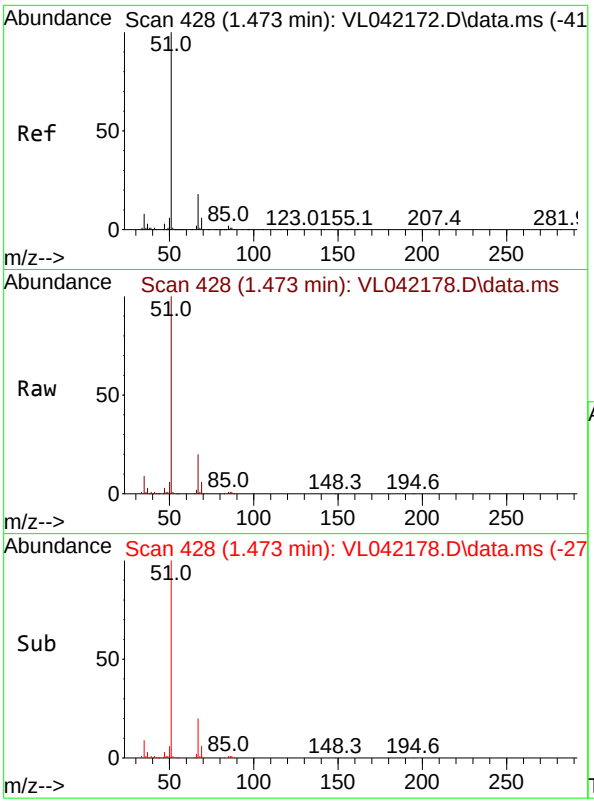




#2
Dichlorodifluoromethane
Concen: 14.023 ppbv
RT: 1.495 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 85 Resp: 358962

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.4 | 26.1 | 39.1 |



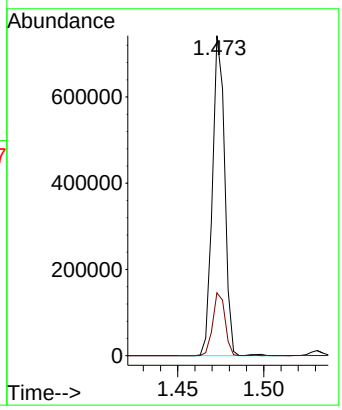


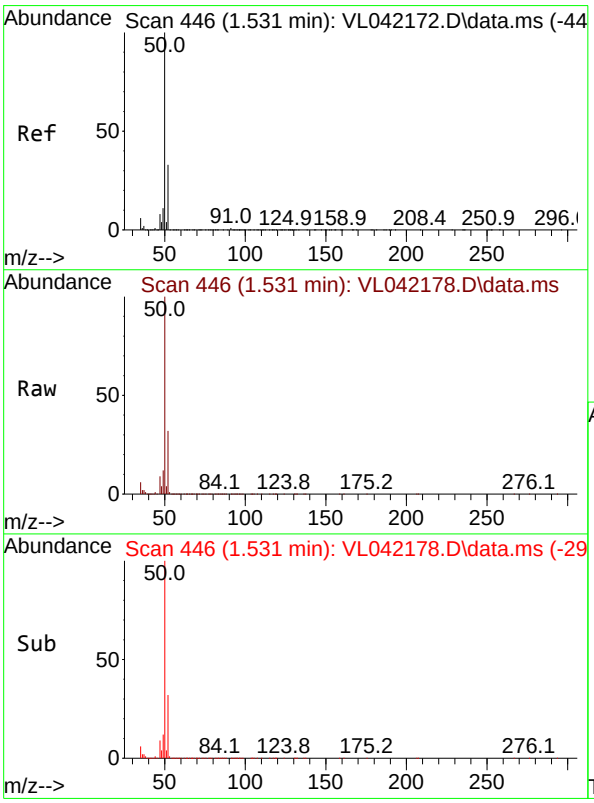

#3
Chlorodifluoromethane
Concen: 14.002 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion: 51 Resp: 366164

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 19.8 | 15.0 | 22.6 |

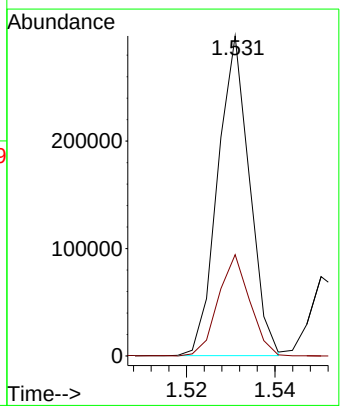


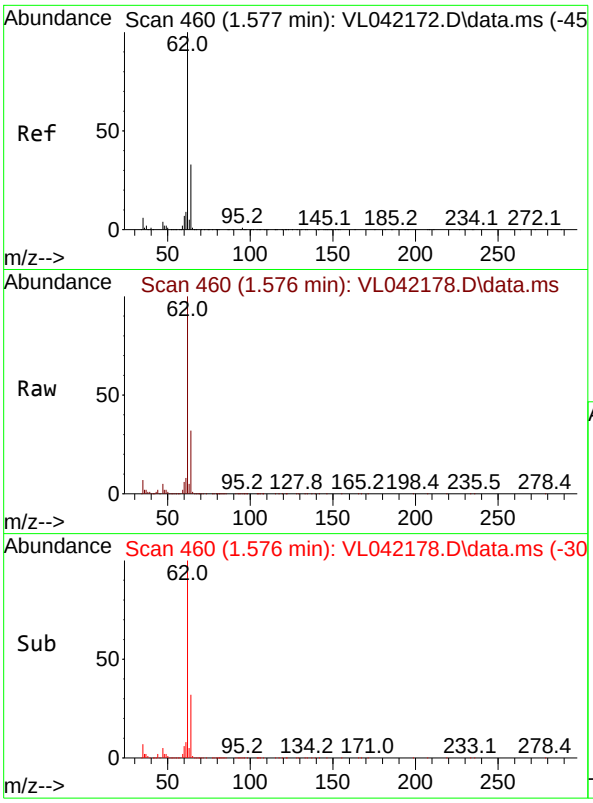




#4
Chloromethane
Concen: 14.160 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 50 Resp: 148133

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 31.6 | 26.1 | 39.1 |



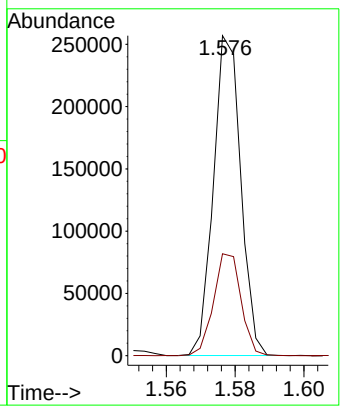


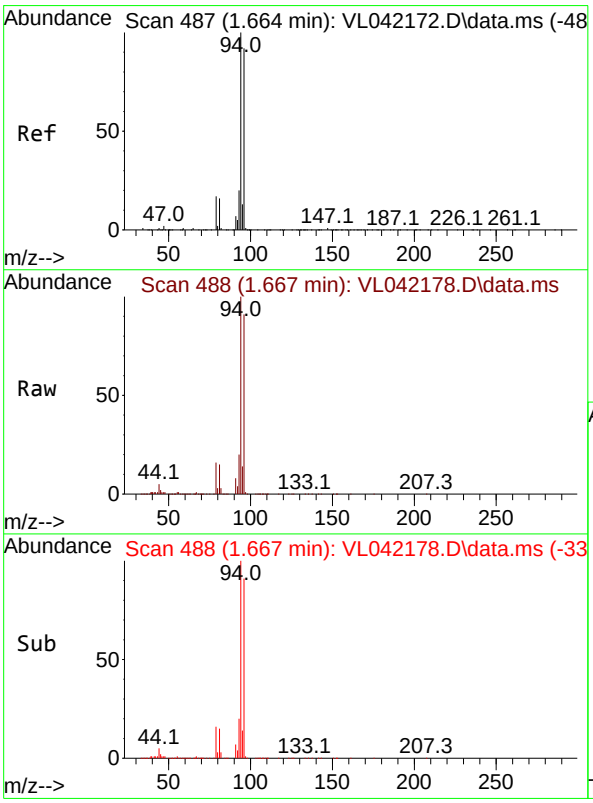

#5
Vinyl Chloride
Concen: 13.304 ppbv
RT: 1.576 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion: 62 Resp: 141938

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.9 | 26.6 | 40.0 |

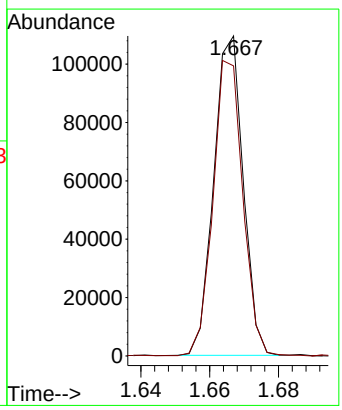


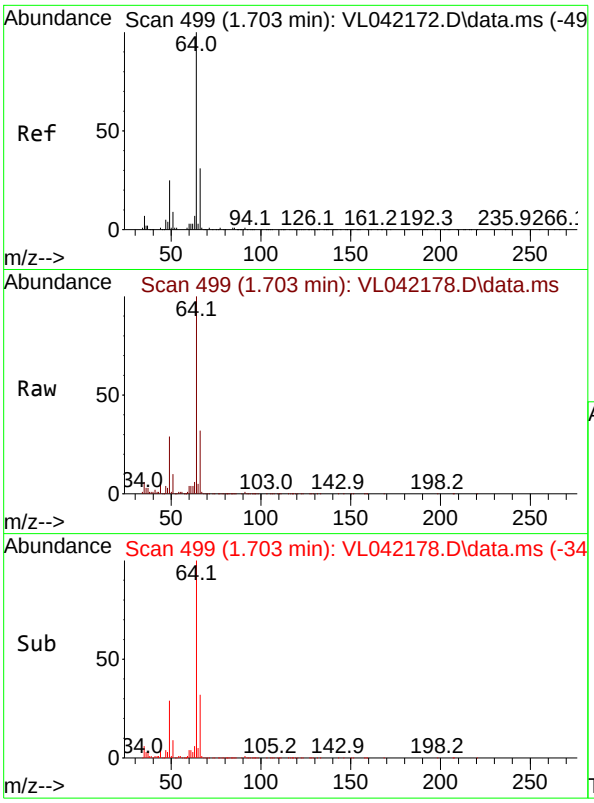




#6
Bromomethane
Concen: 13.734 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 94 Resp: 65113

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 90.7 | 73.1 | 109.7 |



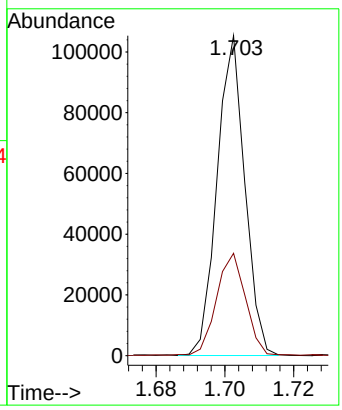


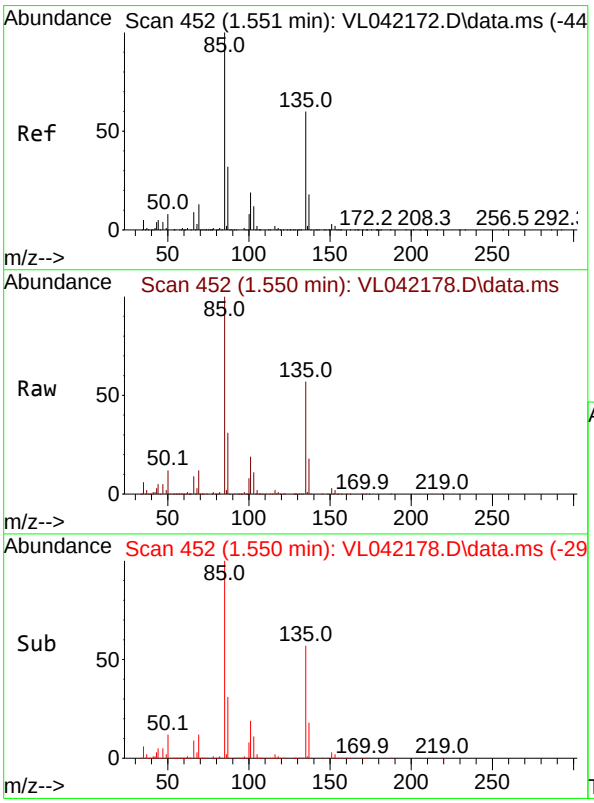

#7
Chloroethane
Concen: 14.007 ppbv
RT: 1.703 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion: 64 Resp: 58820

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.0 | 25.2 | 37.8 |

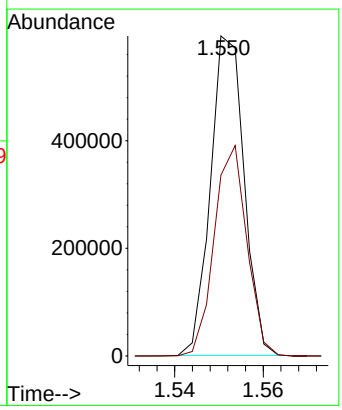


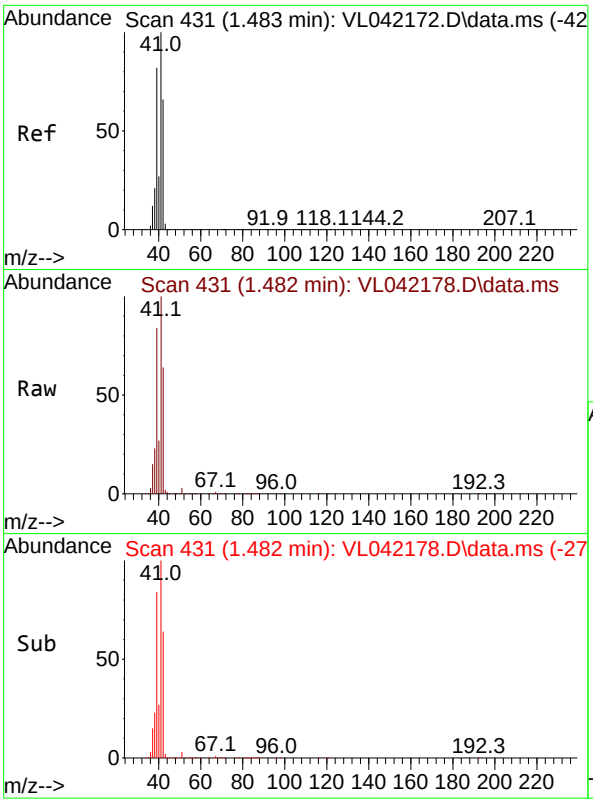




#8
Dichlorotetrafluoroethane
Concen: 14.442 ppbv
RT: 1.550 min Scan# 452
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 85 Resp: 314834

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 63.8 | 52.4 | 78.6 |



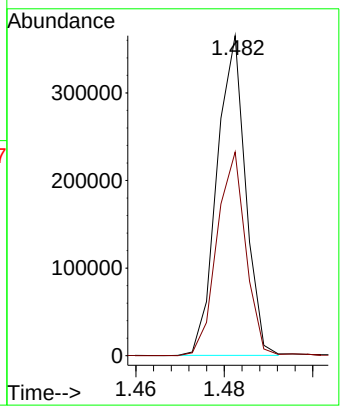


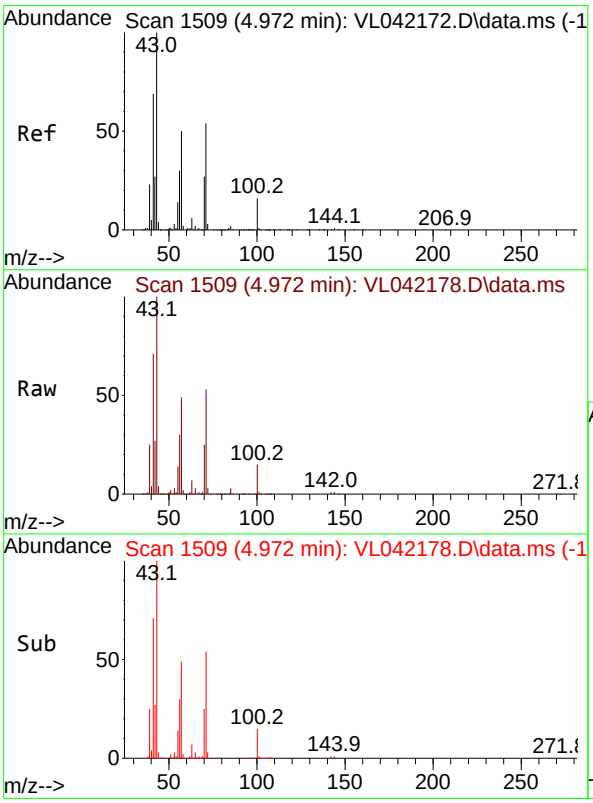

#9
Propene
Concen: 13.902 ppbv
RT: 1.482 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion: 41 Resp: 163799

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 65.3 | 55.4 | 83.2 |

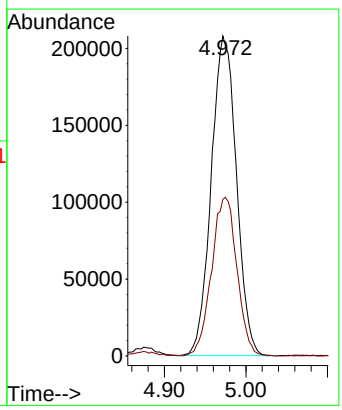


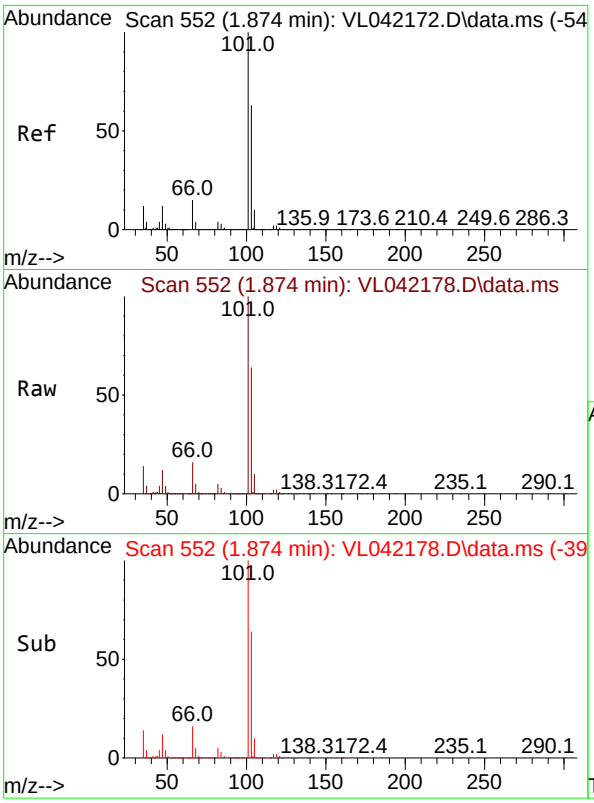




#10
Heptane
Concen: 14.019 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 43 Resp: 446949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 49.9 | 39.4 | 59.2 |



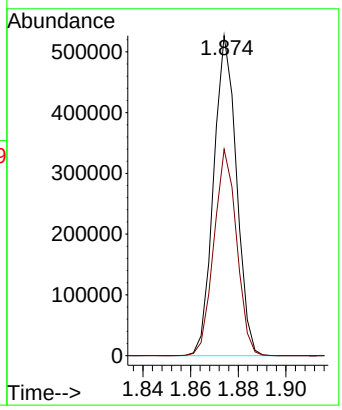


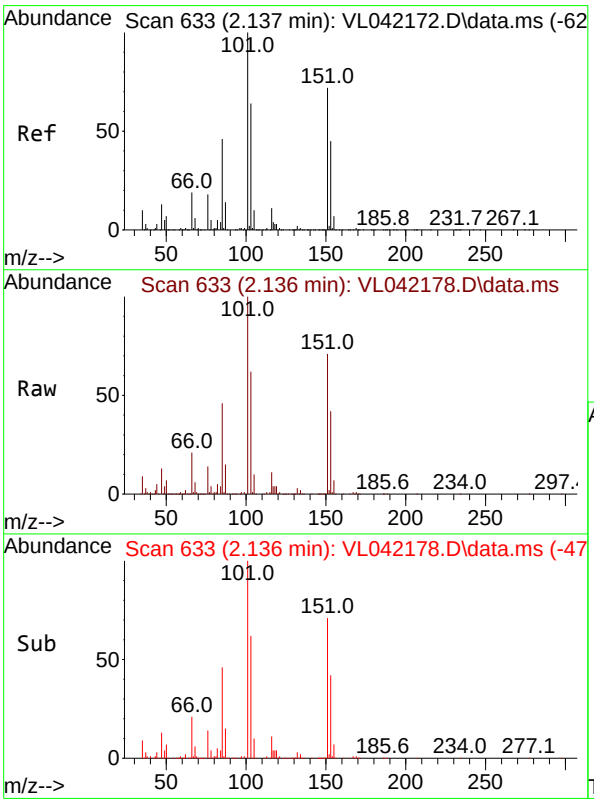

#11
Trichlorofluoromethane
Concen: 14.050 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion:101 Resp: 349967

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.5 | 50.2 | 75.2 |

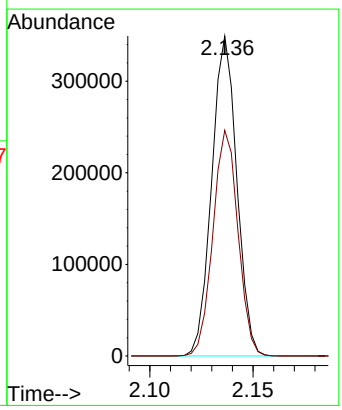


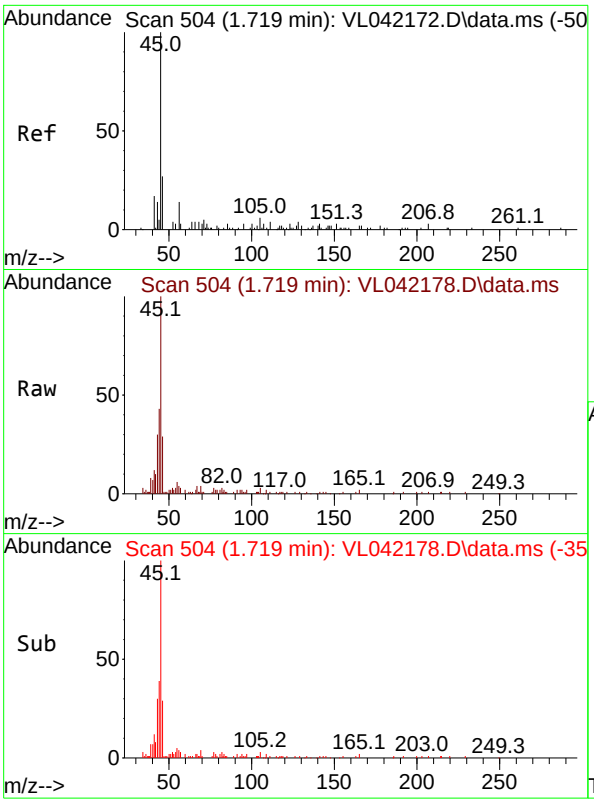




#12
1,1,2-Trichlorotrifluoroethane
Concen: 14.419 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:101 Resp: 295217

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 70.4 | 57.1 | 85.7 |



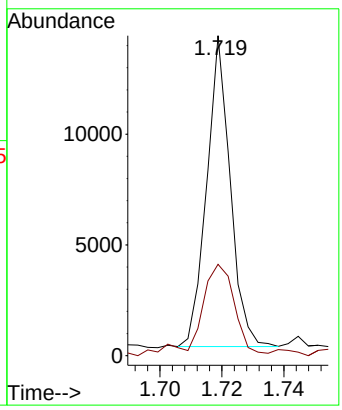


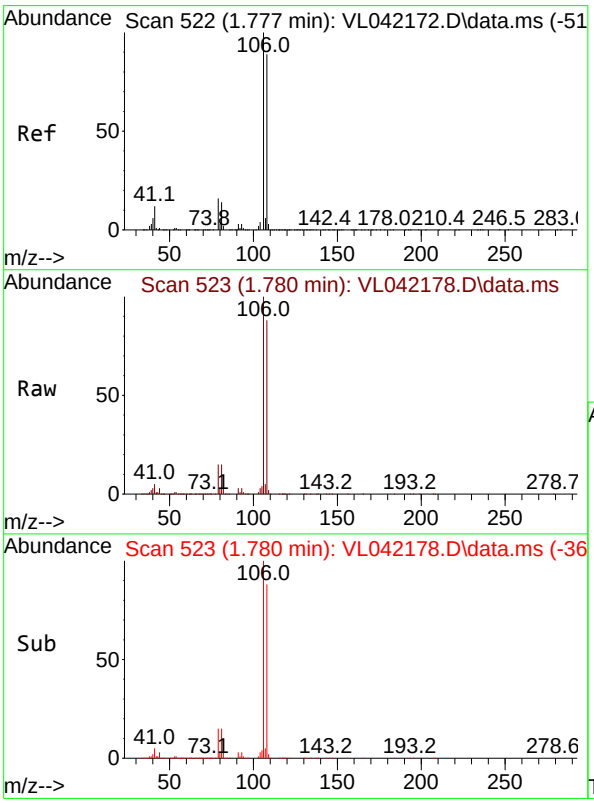

#13
Ethanol
Concen: 8.001 ppbv
RT: 1.719 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion: 45 Resp: 7382

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 44.6 | 20.2 | 80.8 |

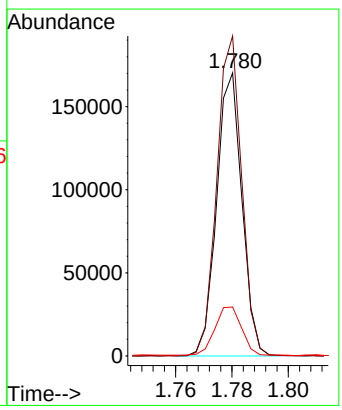


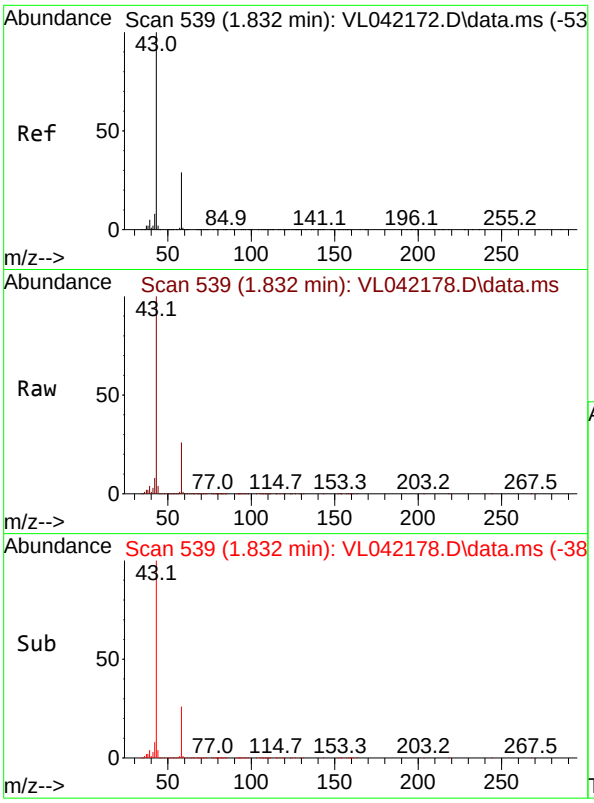




#14
Bromoethene
Concen: 13.571 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:108 Resp: 106436

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 106 | 110.9 | 86.8 | 130.2 |
| 79 | 18.8 | 15.0 | 22.6 |



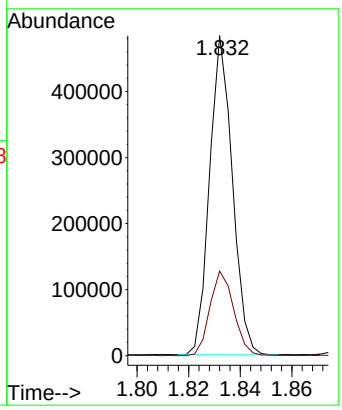


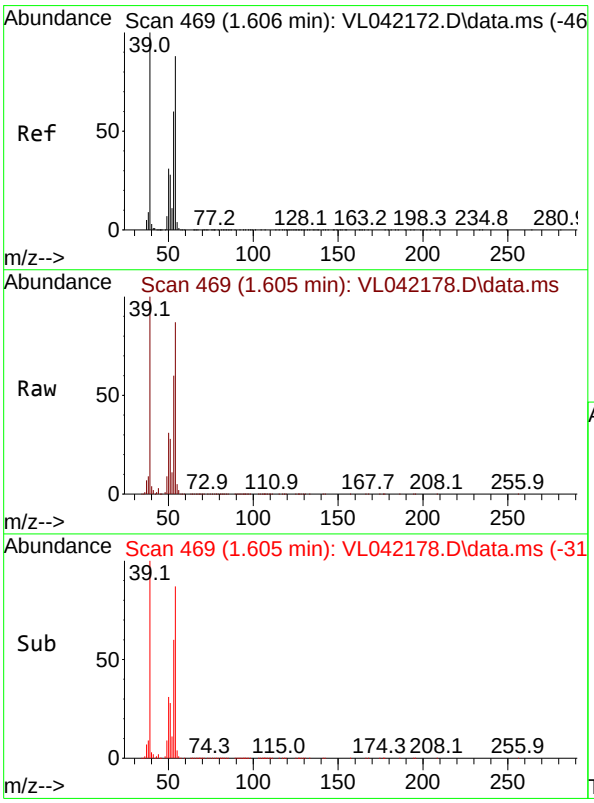

#15
Acetone
Concen: 12.218 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion: 43 Resp: 296254

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 27.7 | 23.2 | 34.8 |

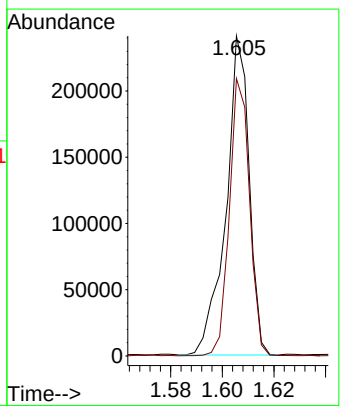


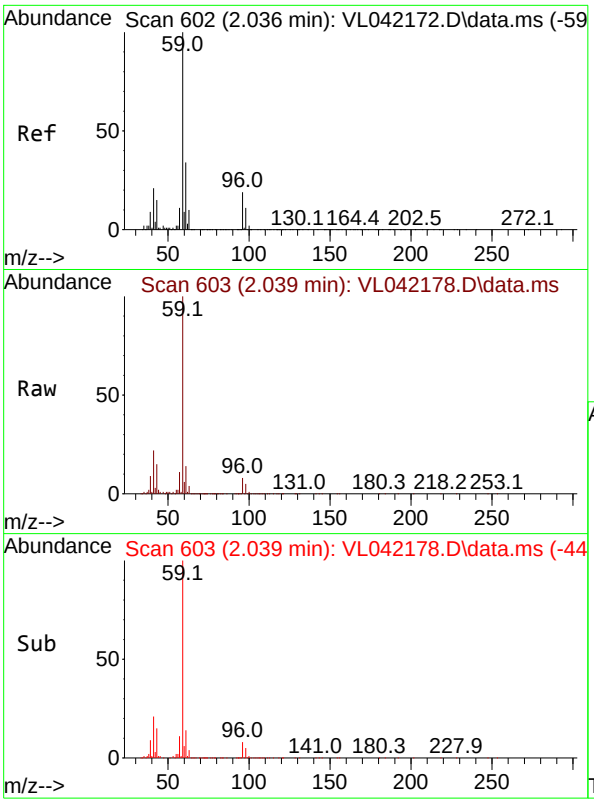




#16
1,3-Butadiene
Concen: 13.766 ppbv
RT: 1.605 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 39 Resp: 150122

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 76.3 | 60.7 | 91.1 |



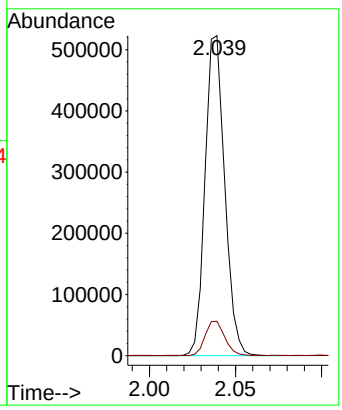


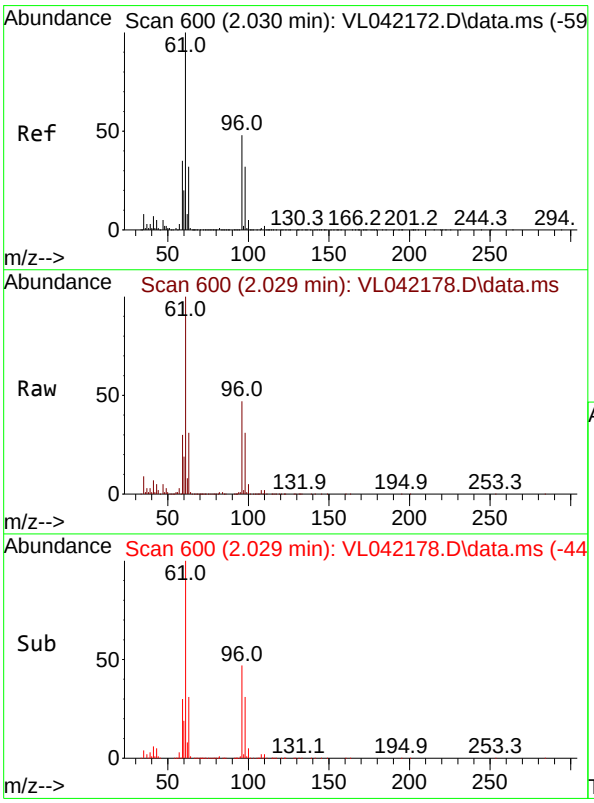

#17
tert-Butyl alcohol
Concen: 13.787 ppbv
RT: 2.039 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion: 59 Resp: 416362

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.8 | 8.9 | 13.3 |

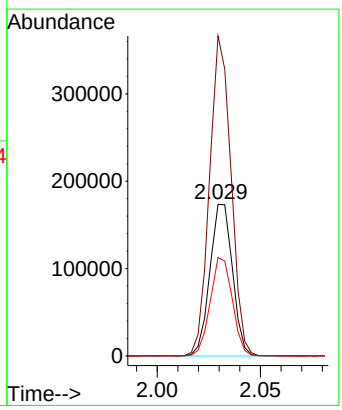


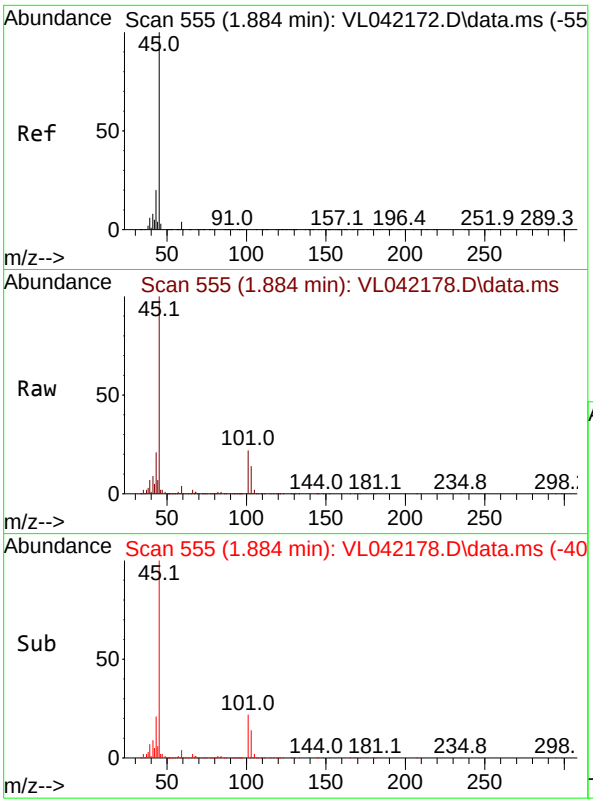




#18
1,1-Dichloroethene
Concen: 13.762 ppbv
RT: 2.029 min Scan# 600
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 96 Resp: 131720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 211.1 | 167.6 | 251.4 |
| 98 | 64.9 | 53.5 | 80.3 |



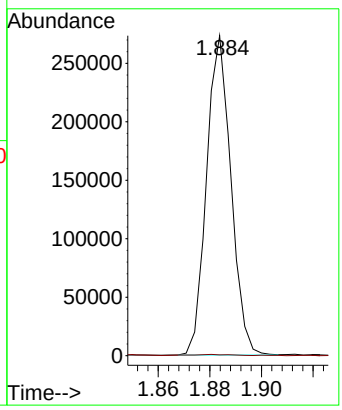


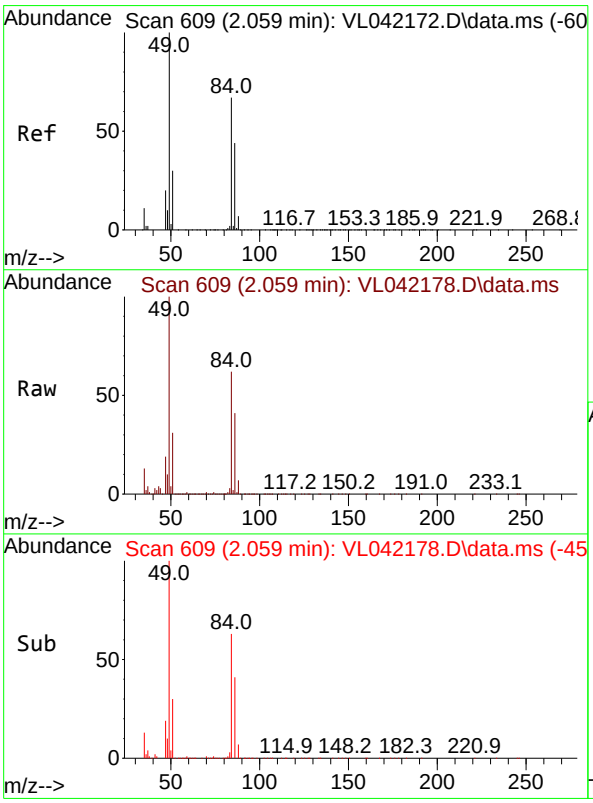

#19
Isopropyl Alcohol
Concen: 13.093 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion: 45 Resp: 179117

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 46.4 | 36.9 | 55.3 |

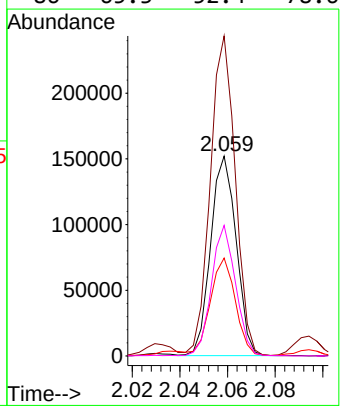


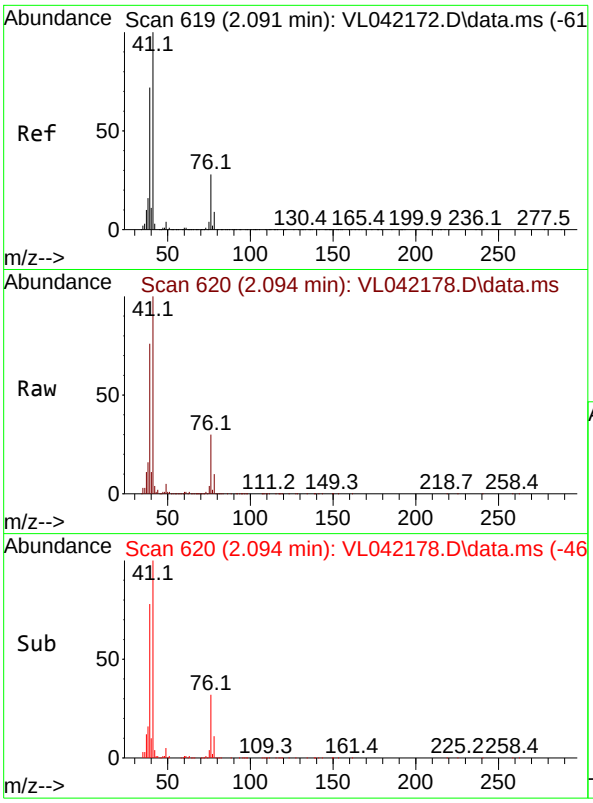




#20
Methylene Chloride
Concen: 12.533 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 84 Resp: 113183

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 159.7 | 120.2 | 180.4 |
| 51 | 48.7 | 37.4 | 56.0 |
| 86 | 65.3 | 52.4 | 78.6 |



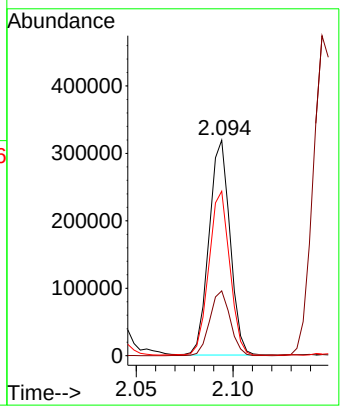


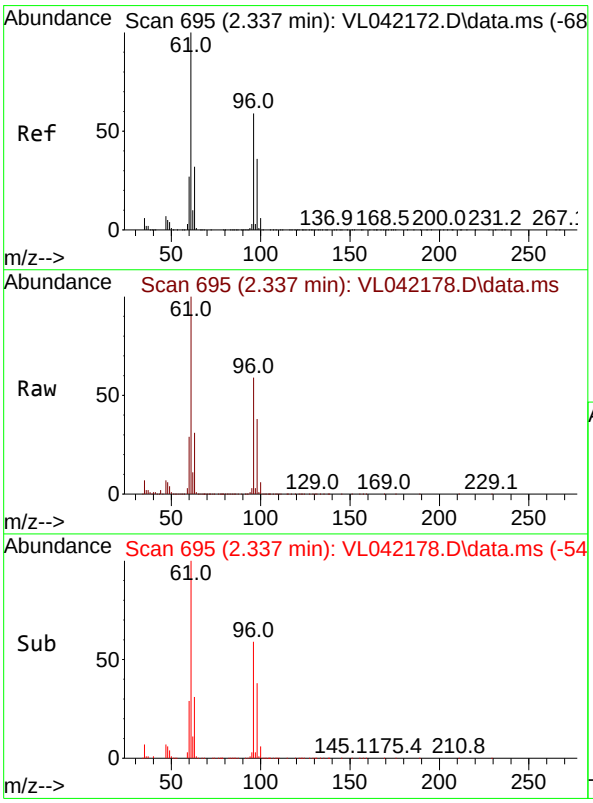

#21
Allyl Chloride
Concen: 14.002 ppbv
RT: 2.094 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion: 41 Resp: 239440

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 29.5 | 24.1 | 36.1 |
| 39 | 76.1 | 61.1 | 91.7 |

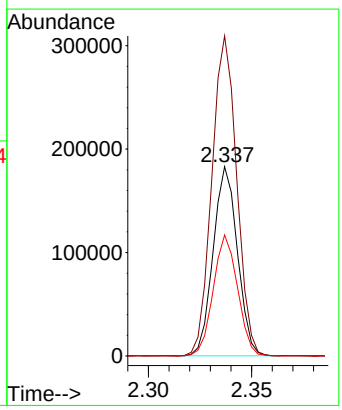


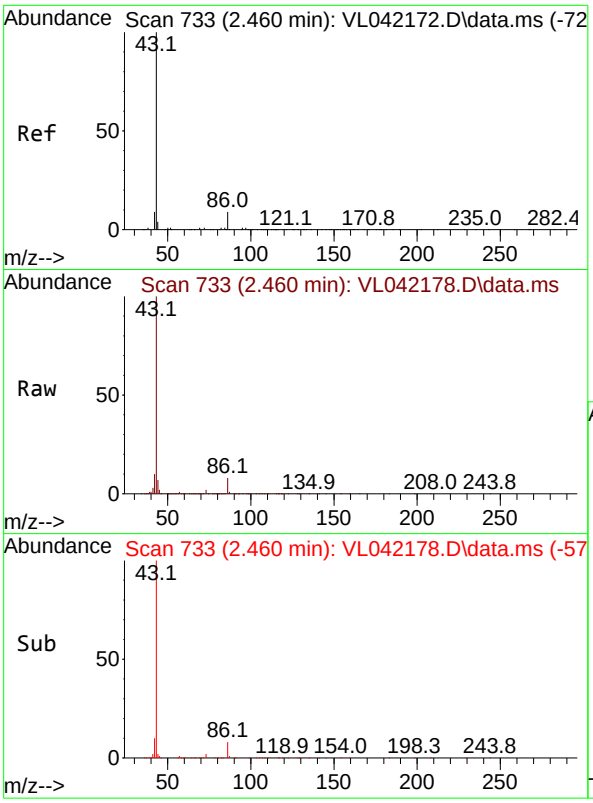




#22
trans-1,2-Dichloroethene
Concen: 13.362 ppbv
RT: 2.337 min Scan# 695
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 96 Resp: 149455

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 169.2 | 136.6 | 204.8 |
| 98 | 63.9 | 49.4 | 74.2 |



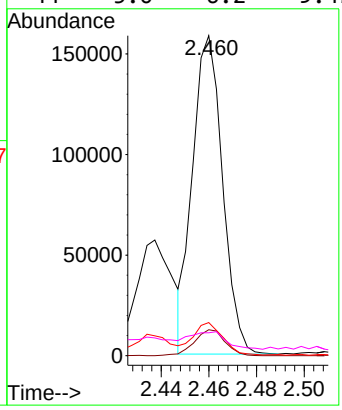


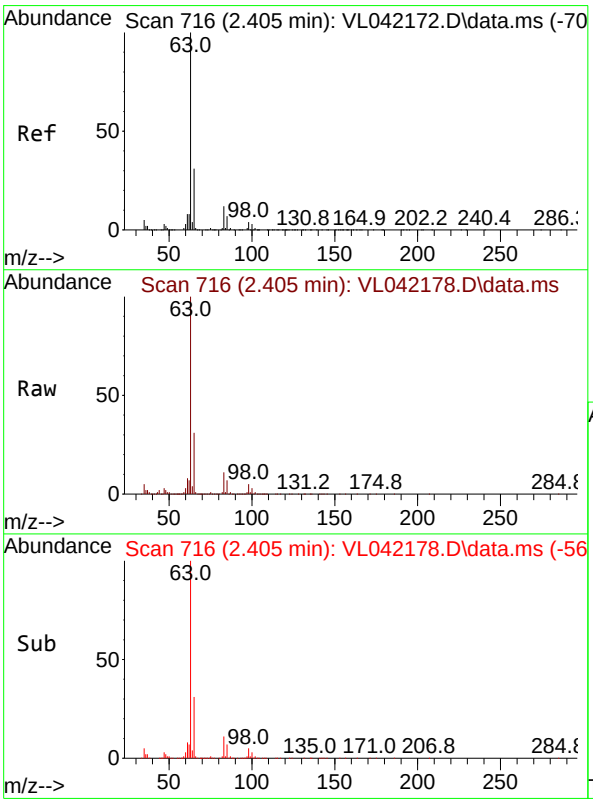

#23
Vinyl Acetate
Concen: 13.736 ppbv
RT: 2.460 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion: 43 Resp: 138419

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 8.1 | 5.5 | 8.3 |
| 42 | 10.1 | 8.6 | 13.0 |
| 44 | 5.0 | 6.2 | 9.4# |

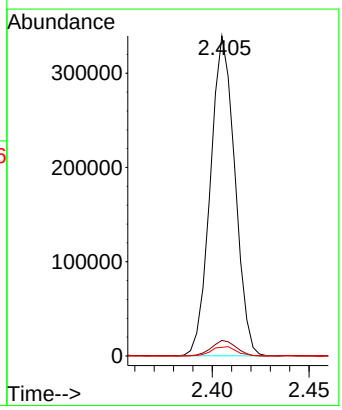


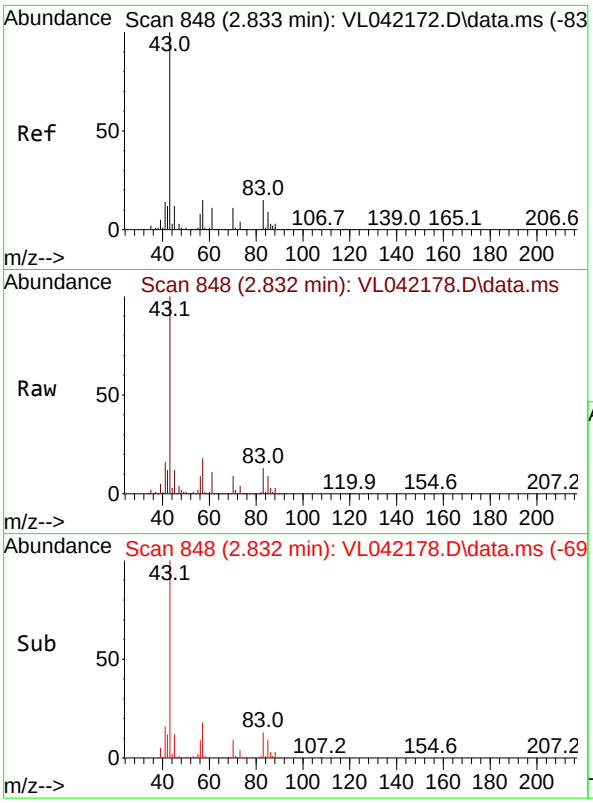




#24
1,1-Dichloroethane
Concen: 14.570 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 63 Resp: 298760

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 4.9 | 2.3 | 6.8 |
| 100 | 2.7 | 1.6 | 4.7 |



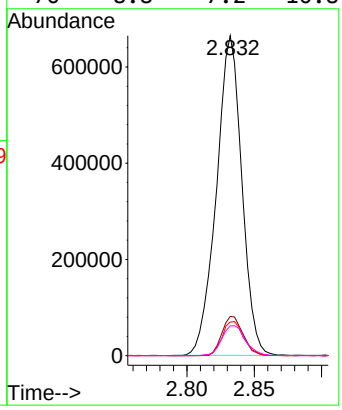


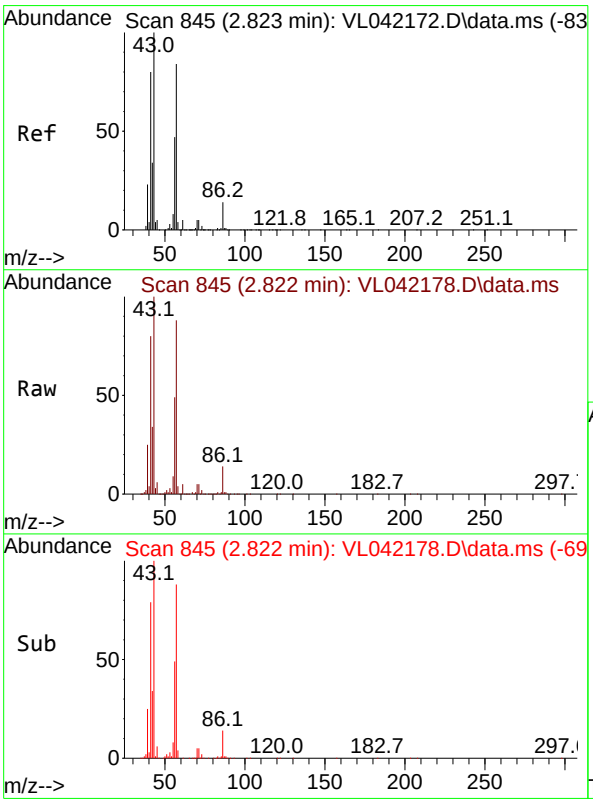

#25
Ethyl Acetate
Concen: 13.855 ppbv
RT: 2.832 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion: 43 Resp: 871882

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 10.3 | 8.2 | 12.2 |
| 61 | 9.0 | 7.3 | 10.9 |
| 70 | 8.8 | 7.2 | 10.8 |

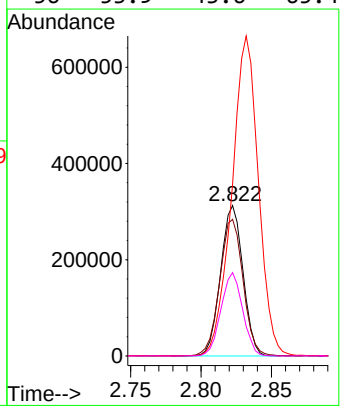


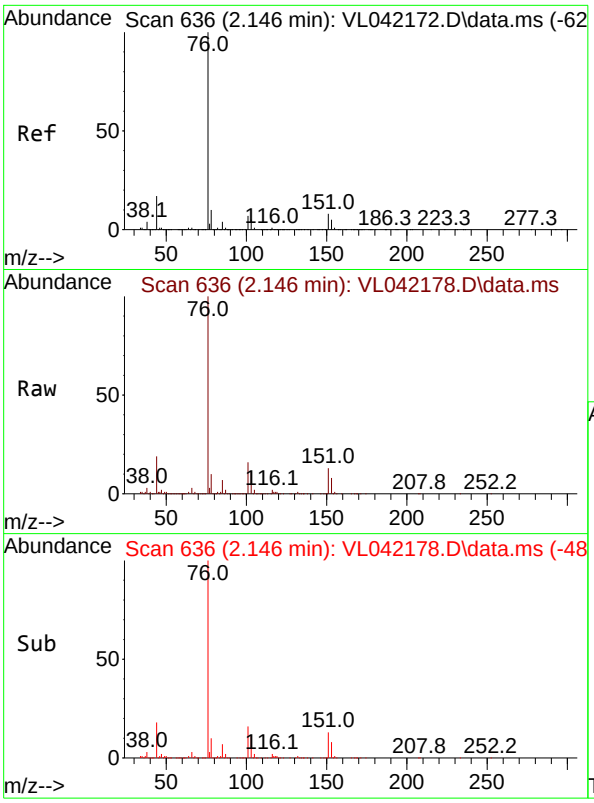




#26
Hexane
Concen: 14.178 ppbv
RT: 2.822 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 57 Resp: 344636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 96.1 | 76.6 | 114.8 |
| 43 | 254.0 | 207.8 | 311.8 |
| 56 | 53.9 | 43.6 | 65.4 |



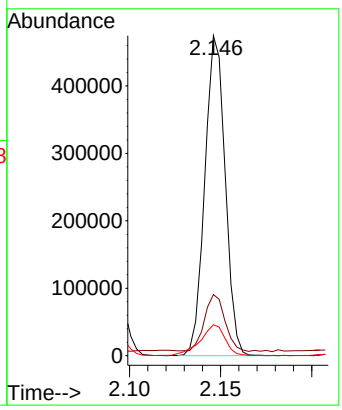


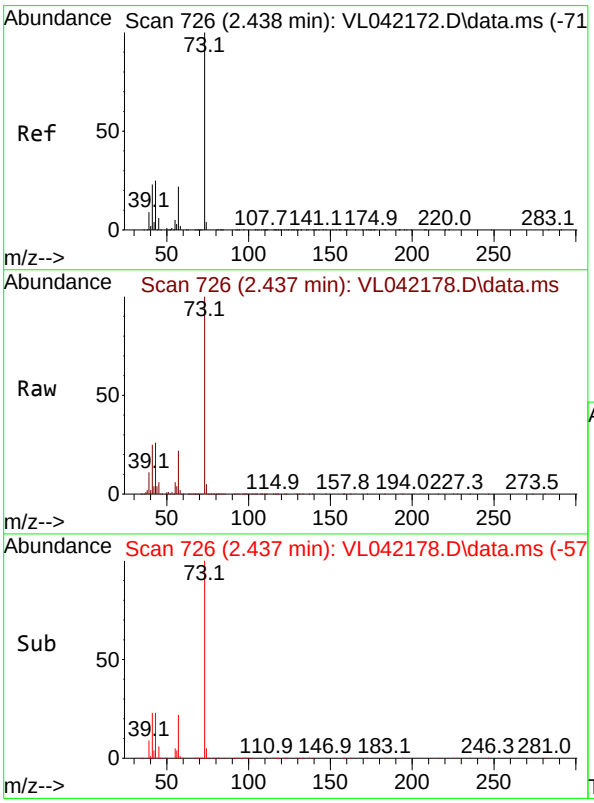

#27
Carbon Disulfide
Concen: 14.196 ppbv
RT: 2.146 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion: 76 Resp: 370022

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 20.3 | 14.7 | 22.1 |
| 78 | 11.7 | 9.3 | 13.9 |

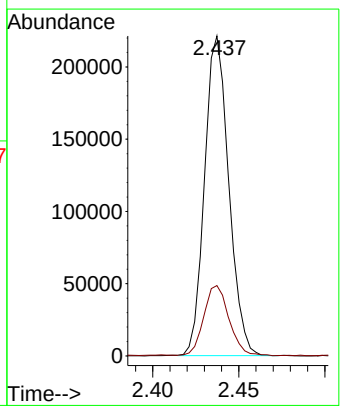


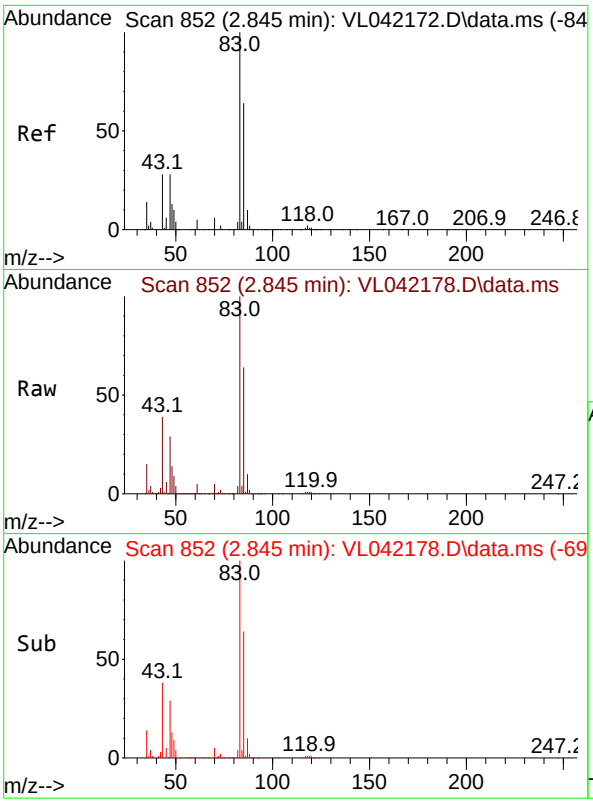




#28
Methyl tert-Butyl Ether
Concen: 14.303 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 73 Resp: 216463

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 23.2 | 20.5 | 30.7 |



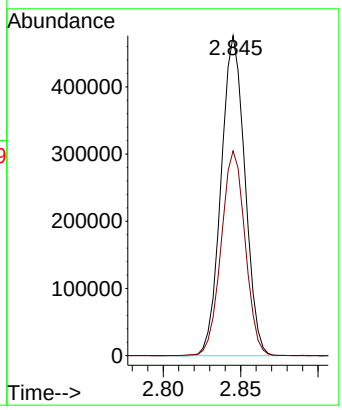


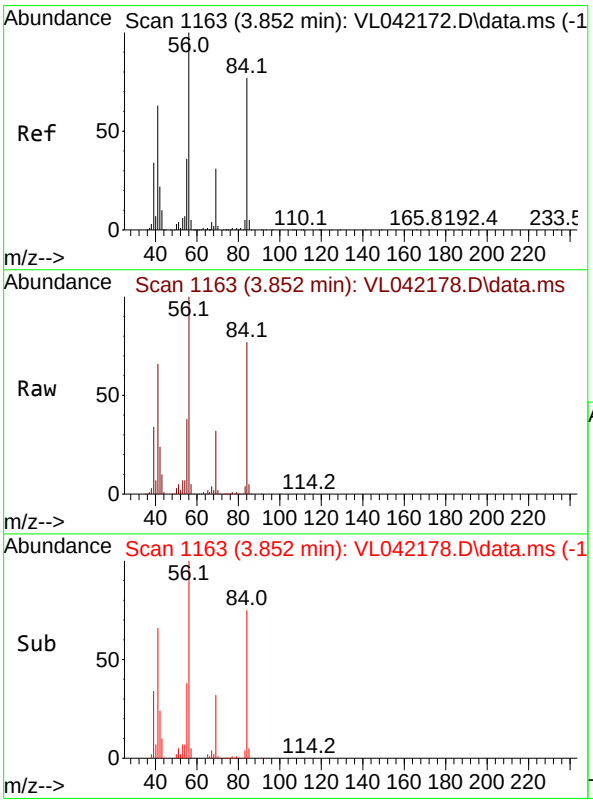

#29
Chloroform
Concen: 14.297 ppbv
RT: 2.845 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion: 83 Resp: 508614

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.0 | 51.4 | 77.2 |

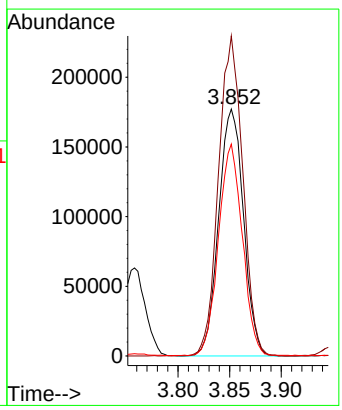


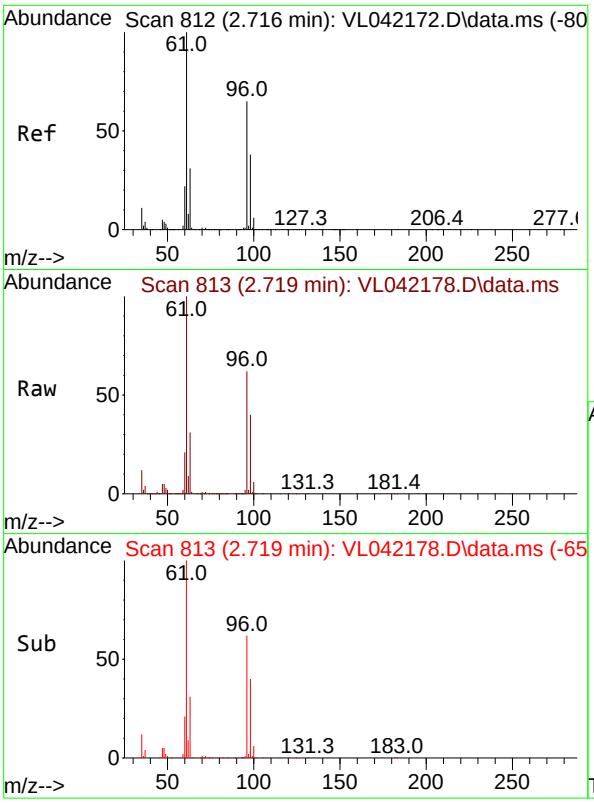




#30
Cyclohexane
Concen: 14.040 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 84 Resp: 296458

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 126.7 | 102.8 | 154.2 |
| 41 | 82.6 | 66.5 | 99.7 |



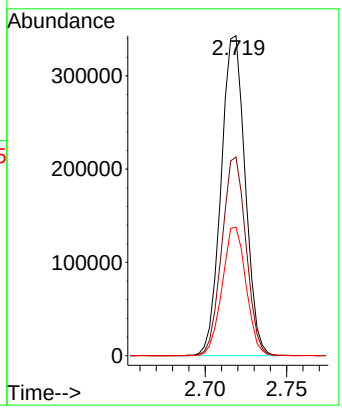


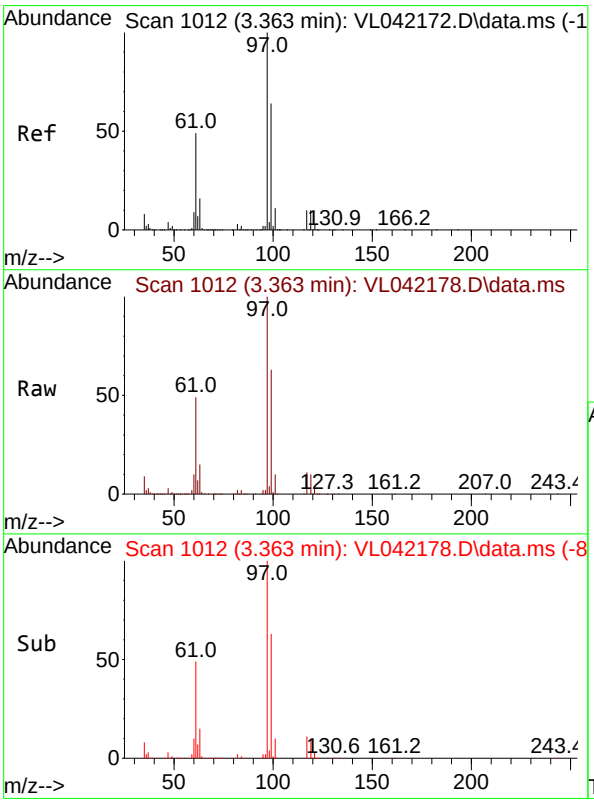

#31
cis-1,2-Dichloroethene
Concen: 14.262 ppbv
RT: 2.719 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion: 61 Resp: 351945

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 62.1 | 51.8 | 77.8 |
| 98 | 40.2 | 30.6 | 46.0 |

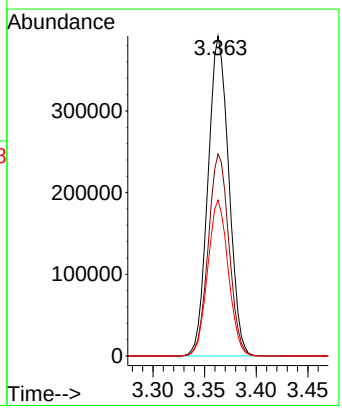


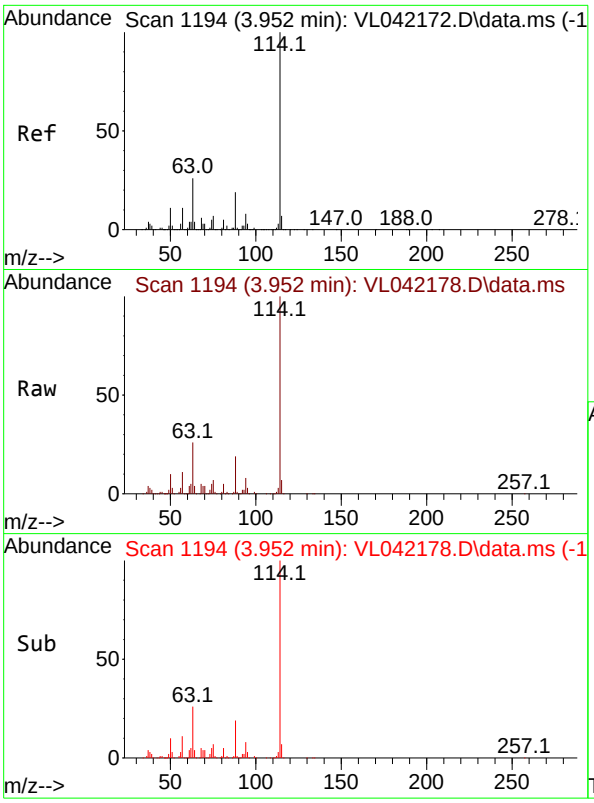




#32
1,1,1-Trichloroethane
Concen: 13.448 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 97 Resp: 547329

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 62.8 | 51.5 | 77.3 |
| 61 | 48.4 | 38.7 | 58.1 |



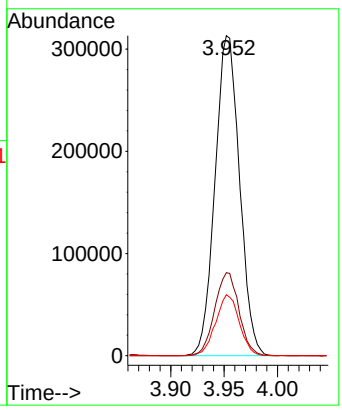


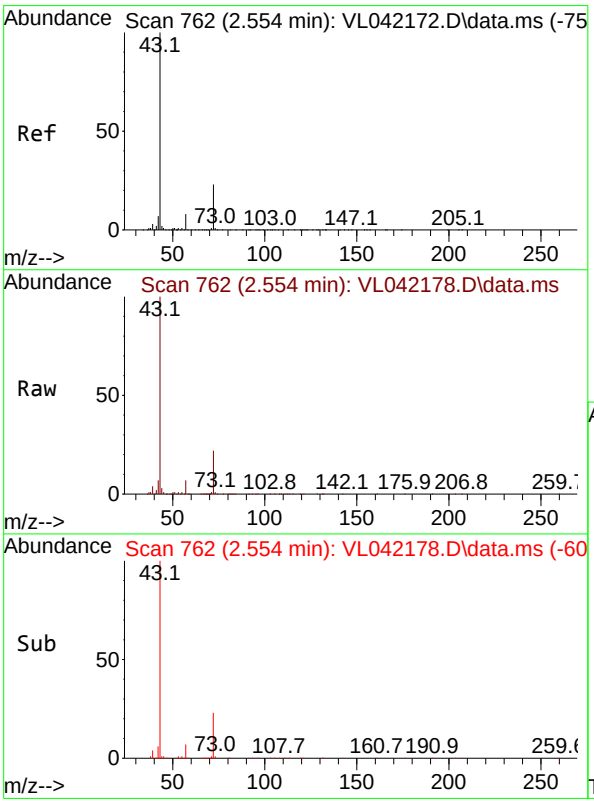

#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion:114 Resp: 499360

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.7 | 20.7 | 31.1 |
| 88 | 18.4 | 15.0 | 22.4 |

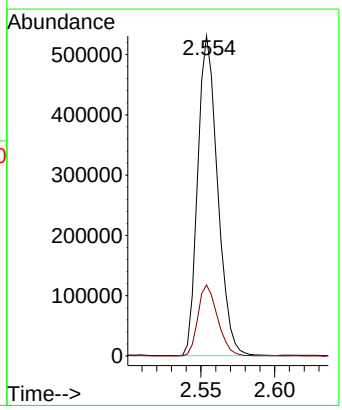


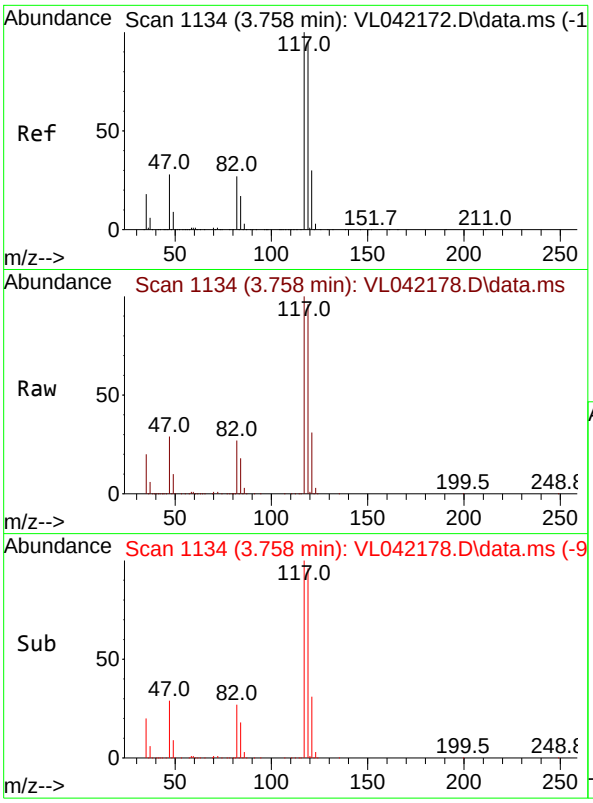




#34
2-Butanone
Concen: 13.726 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 43 Resp: 497020

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 22.0 | 18.2 | 27.2 |



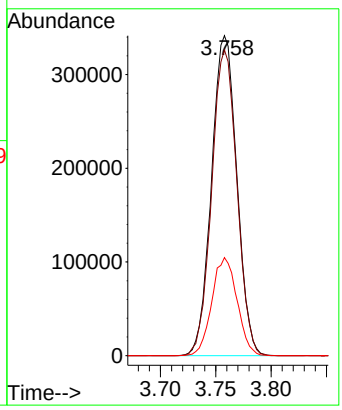


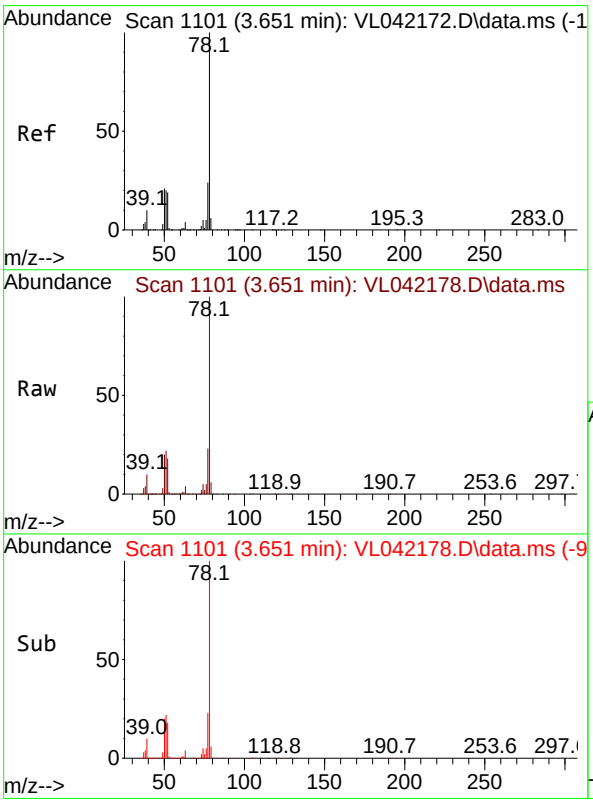

#35
Carbon Tetrachloride
Concen: 14.140 ppbv
RT: 3.758 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion:117 Resp: 543385

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 95.5 | 76.2 | 114.2 |
| 121 | 30.6 | 24.2 | 36.4 |

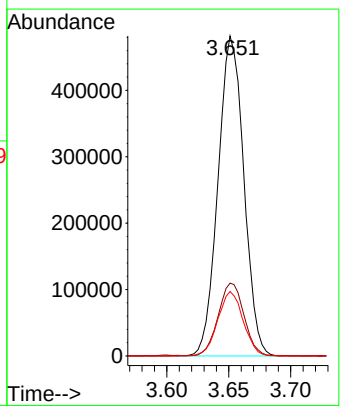


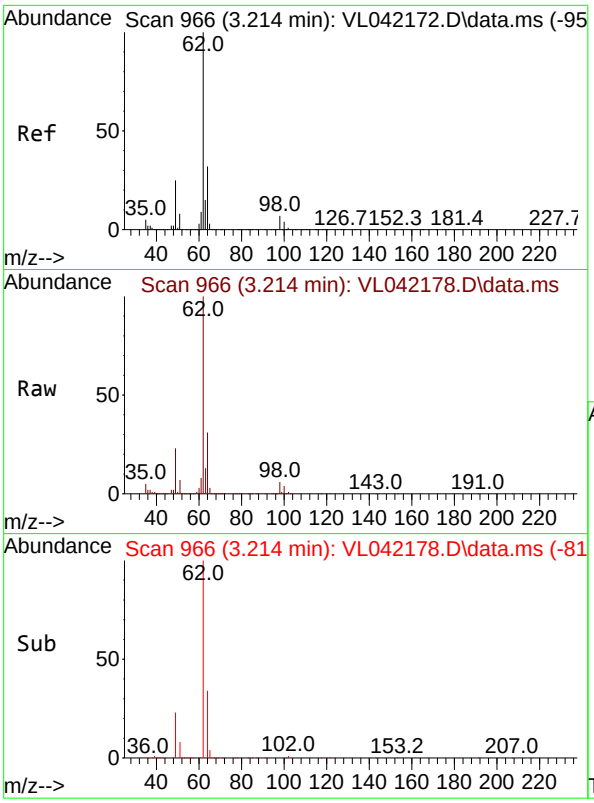




#36
Benzene
Concen: 14.131 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 78 Resp: 699549

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 22.7 | 19.1 | 28.7 |
| 50 | 20.1 | 16.6 | 24.8 |



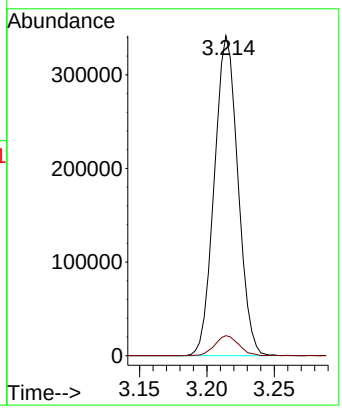


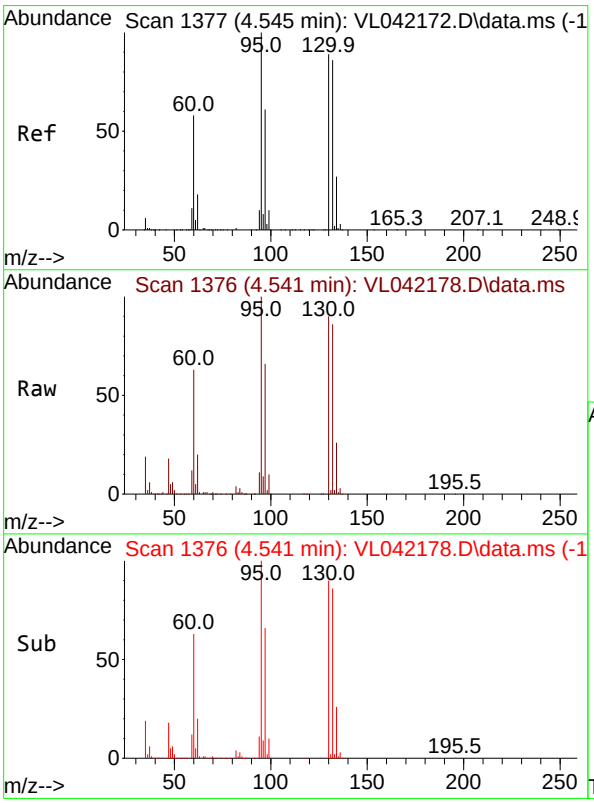

#37
1,2-Dichloroethane
Concen: 14.697 ppbv
RT: 3.214 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion: 62 Resp: 416544

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 6.4 | 5.4 | 8.2 |

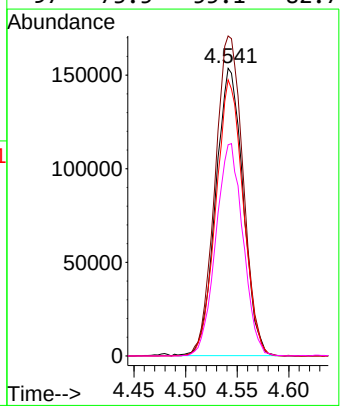


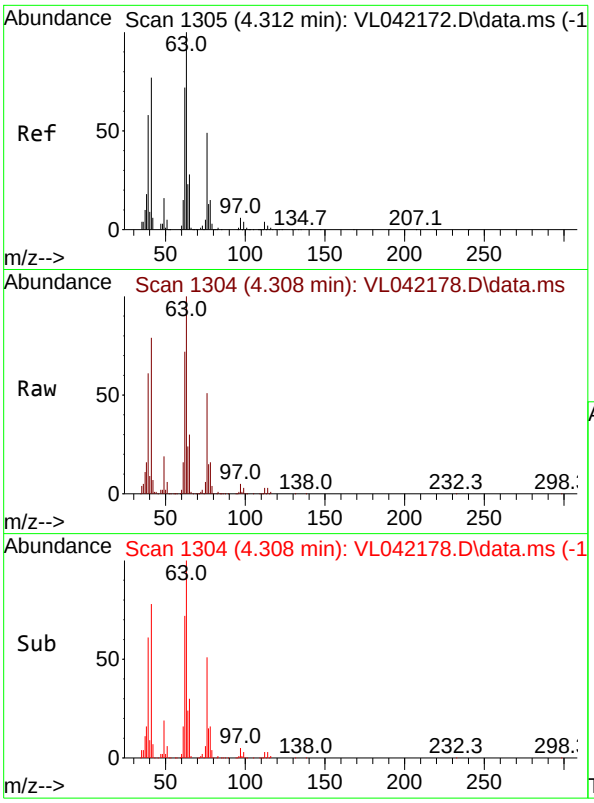




#38
Trichloroethene
Concen: 13.715 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. -0.004 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:130 Resp: 283430

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 111.3 | 89.8 | 134.8 |
| 132 | 96.0 | 77.4 | 116.2 |
| 97 | 73.5 | 55.1 | 82.7 |



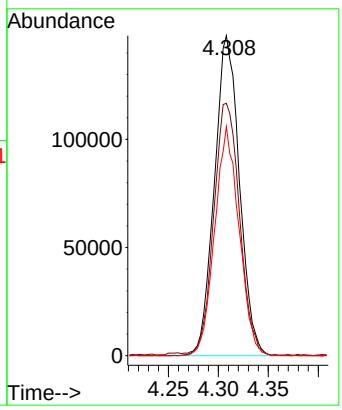


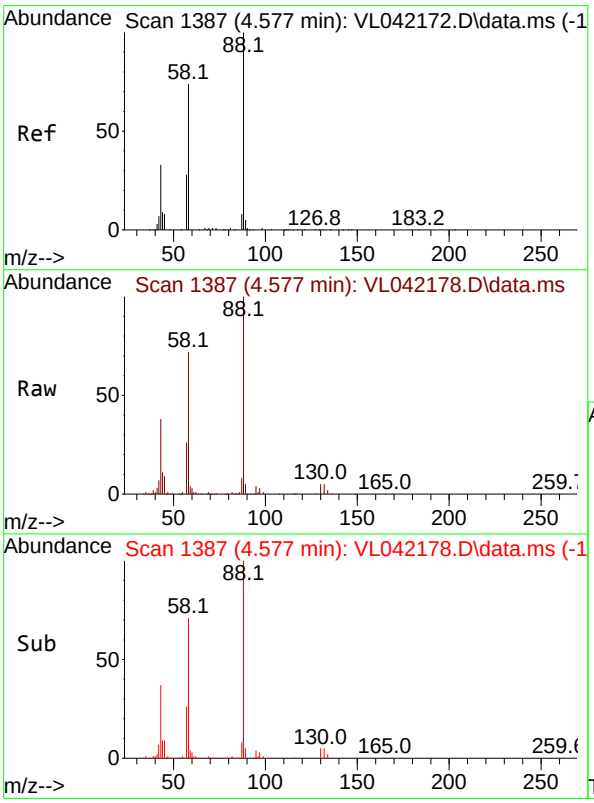

#39
1,2-Dichloropropane
Concen: 14.304 ppbv
RT: 4.308 min Scan# 1
Delta R.T. -0.004 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion: 63 Resp: 257891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 78.7 | 61.7 | 92.5 |
| 62 | 71.6 | 57.6 | 86.4 |

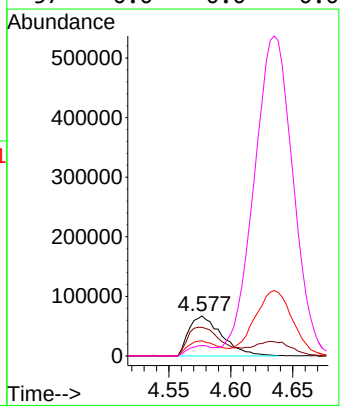


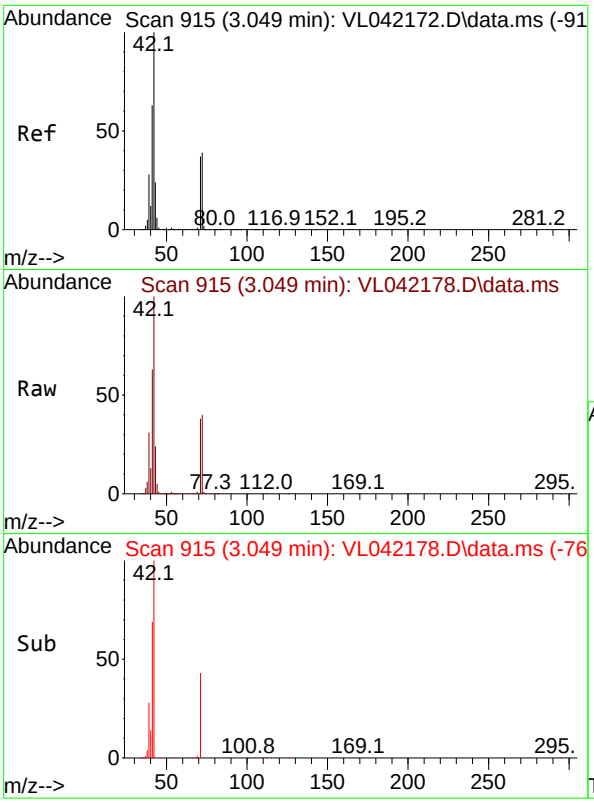




#40
1,4-Dioxane
Concen: 13.354 ppbv
RT: 4.577 min Scan# 1387
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 88 Resp: 124925

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 69.6 | 62.7 | 94.1 |
| 43 | 31.6 | 23.0 | 34.4 |
| 57 | 0.0 | 0.0 | 0.0 |



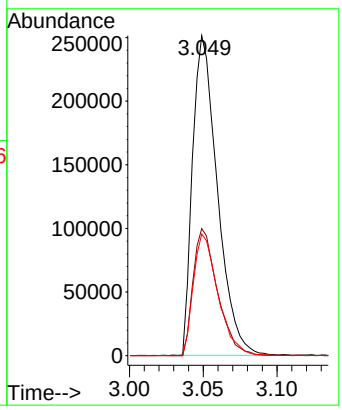


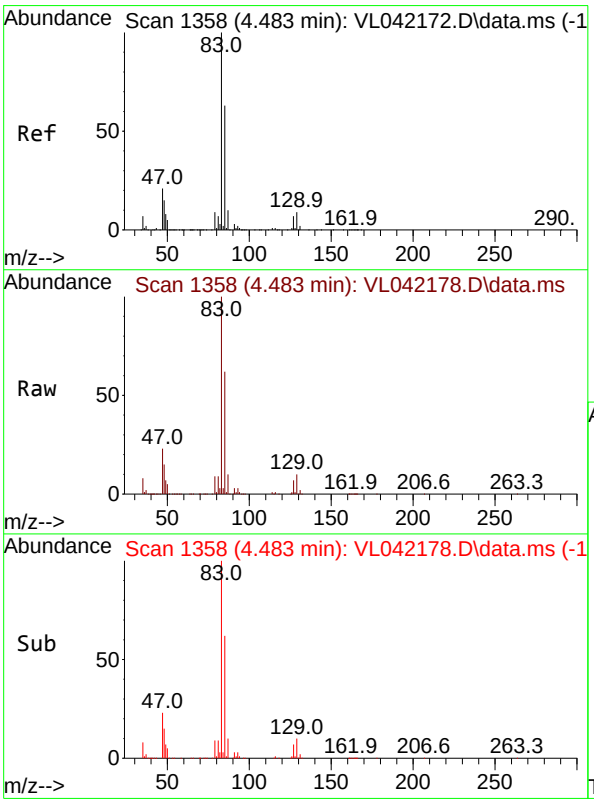

#41
Tetrahydrofuran
Concen: 14.301 ppbv
RT: 3.049 min Scan# 91
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion: 42 Resp: 294634

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 39.0 | 31.4 | 47.0 |
| 71 | 37.9 | 30.2 | 45.4 |

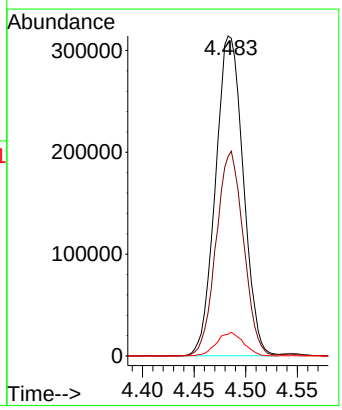


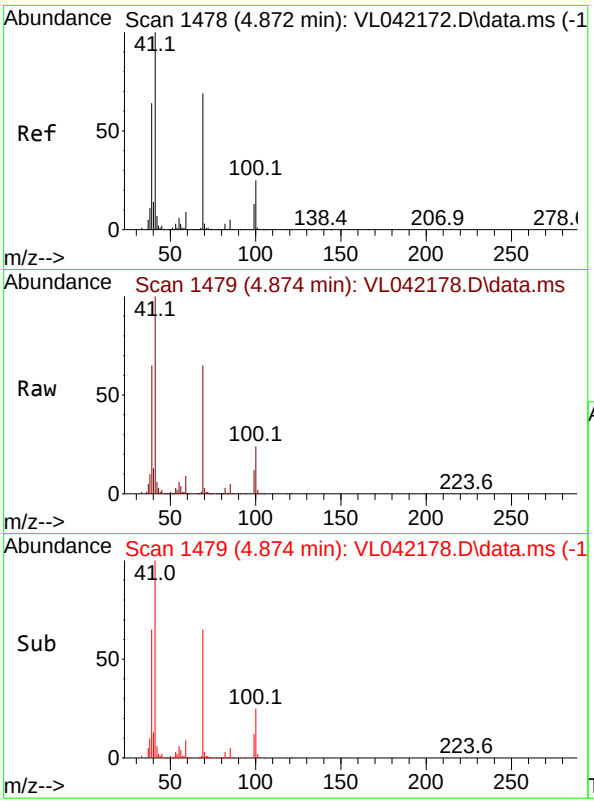




#42
Bromodichloromethane
Concen: 15.043 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 83 Resp: 587772

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.4 | 50.5 | 75.7 |
| 127 | 6.8 | 5.9 | 8.9 |



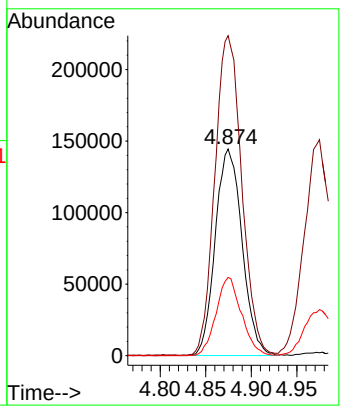


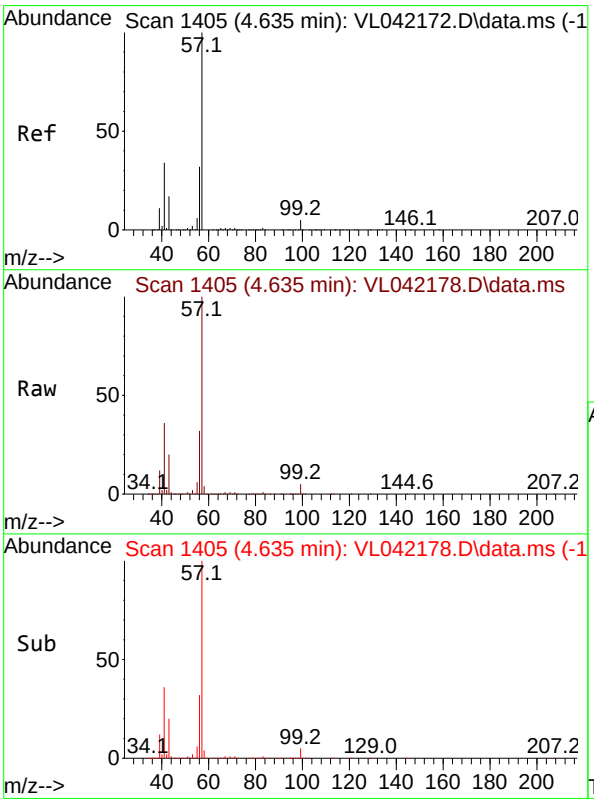

#43
Methyl Methacrylate
Concen: 14.130 ppbv
RT: 4.874 min Scan# 14
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion: 69 Resp: 295300

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 155.4 | 123.8 | 185.6 |
| 100 | 36.0 | 28.4 | 42.6 |

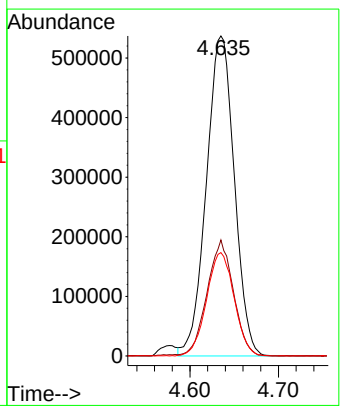


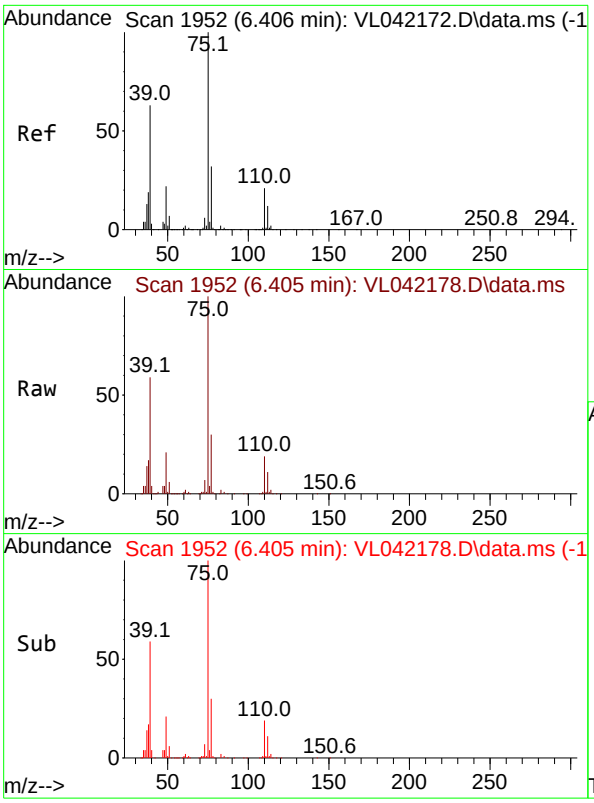




#44
2,2,4-Trimethylpentane
Concen: 14.108 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 57 Resp: 1180275

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 34.2 | 26.8 | 40.2 |
| 56 | 31.9 | 25.6 | 38.4 |



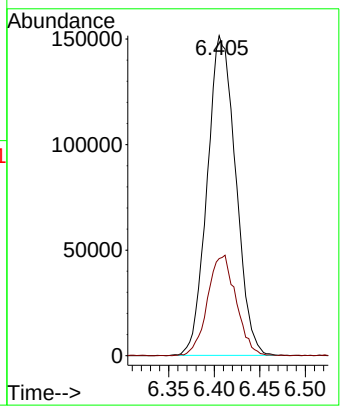


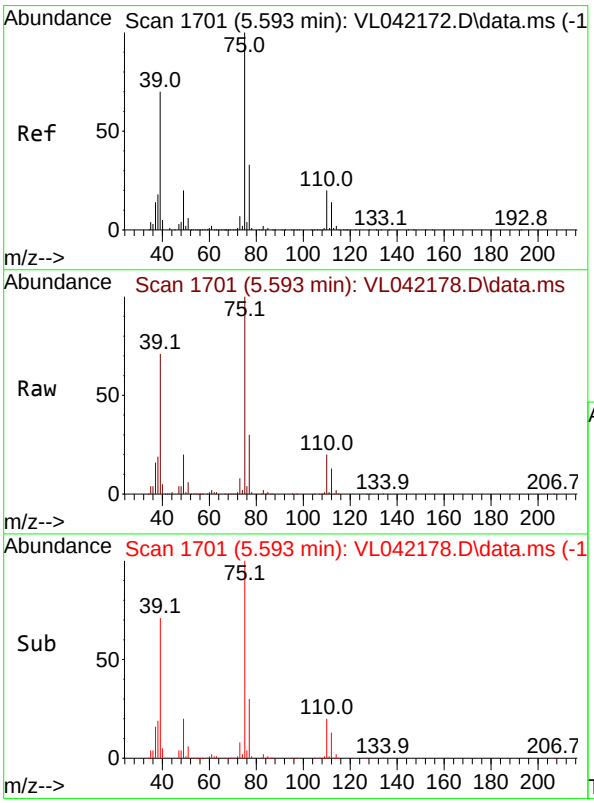

#45
t-1,3-Dichloropropene
Concen: 14.649 ppbv
RT: 6.405 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion: 75 Resp: 329360

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.4 | 26.0 | 39.0 |

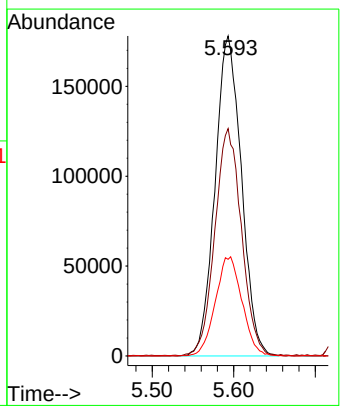


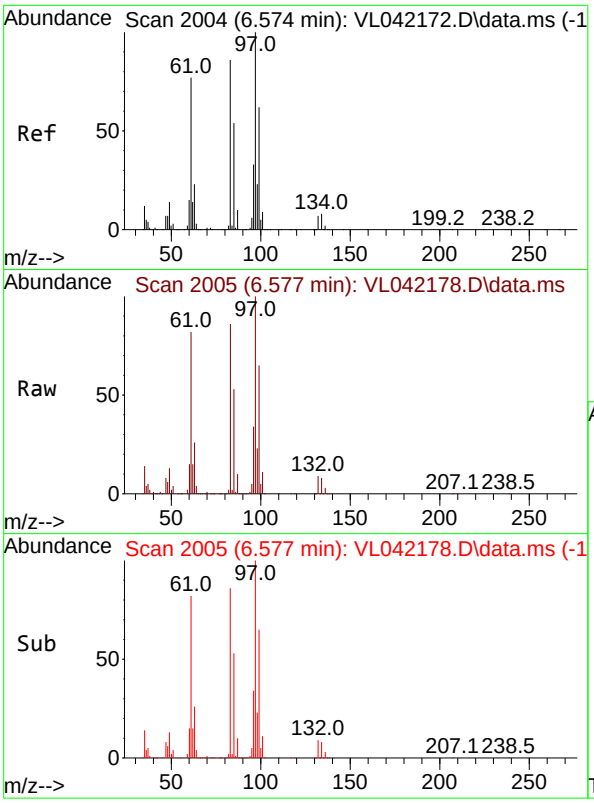




#46
cis-1,3-Dichloropropene
Concen: 14.542 ppbv
RT: 5.593 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 75 Resp: 400813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 39 | 70.9 | 55.8 | 83.6 |
| 77 | 30.2 | 26.0 | 39.0 |



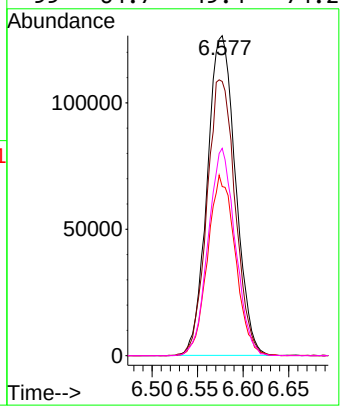


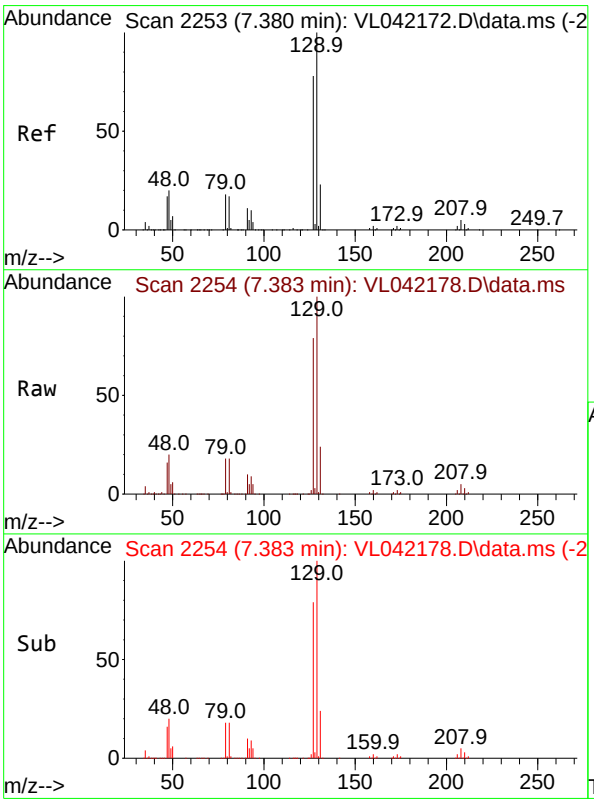

#47
1,1,2-Trichloroethane
Concen: 14.331 ppbv
RT: 6.577 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion: 97 Resp: 273137

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 85.7 | 69.2 | 103.8 |
| 85 | 52.7 | 43.1 | 64.7 |
| 99 | 64.7 | 49.4 | 74.2 |

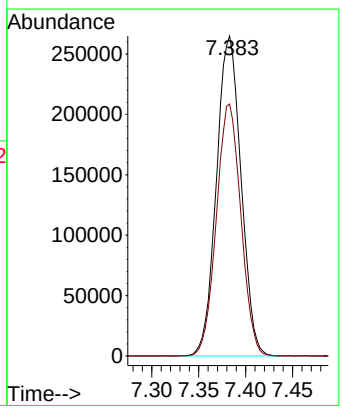


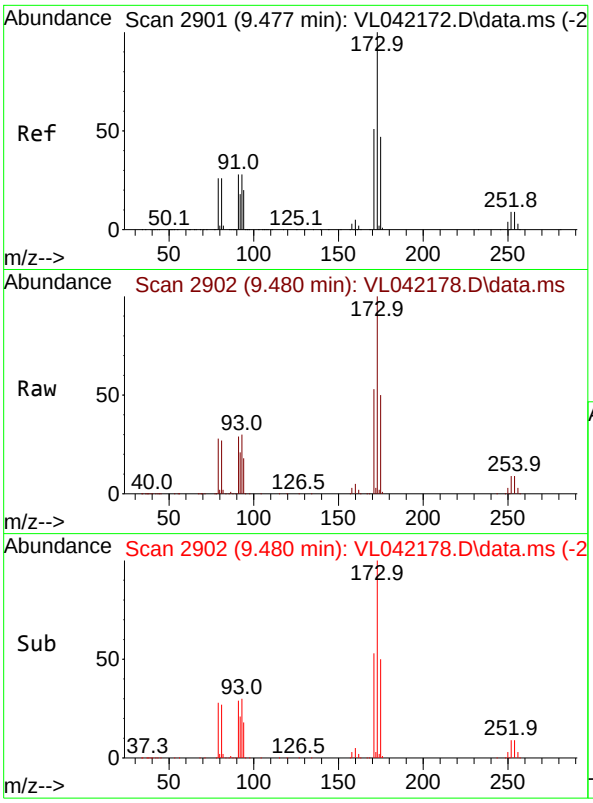




#48
Dibromochloromethane
Concen: 14.936 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:129 Resp: 482431

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.4 | 39.1 | 117.2 |



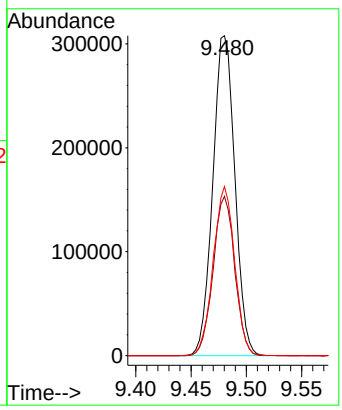


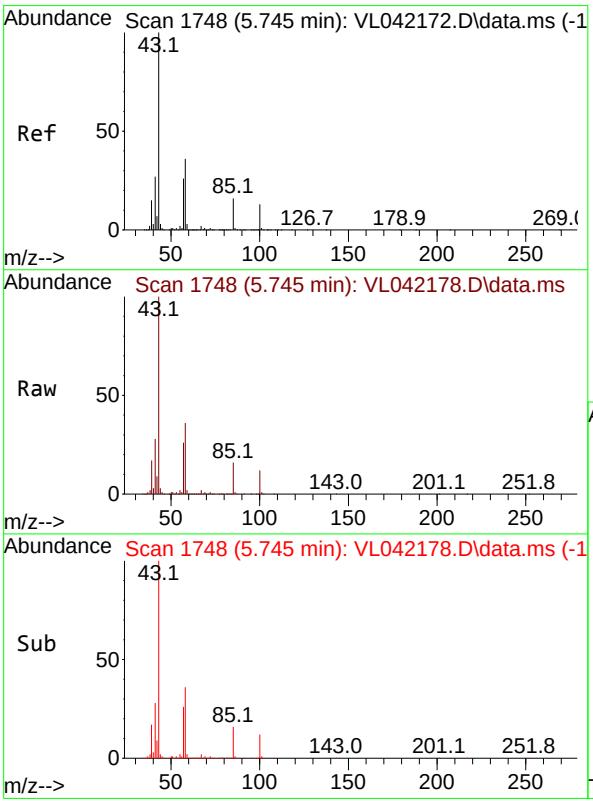

#49
Bromoform
Concen: 14.730 ppbv
RT: 9.480 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion:173 Resp: 427143

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.9 | 38.6 | 57.8 |
| 171 | 51.5 | 41.8 | 62.6 |

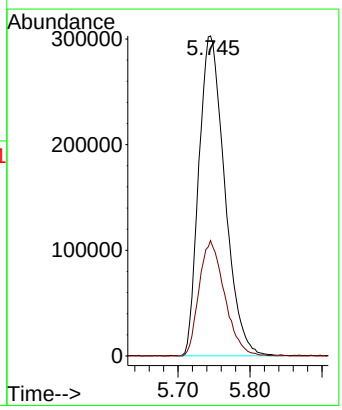


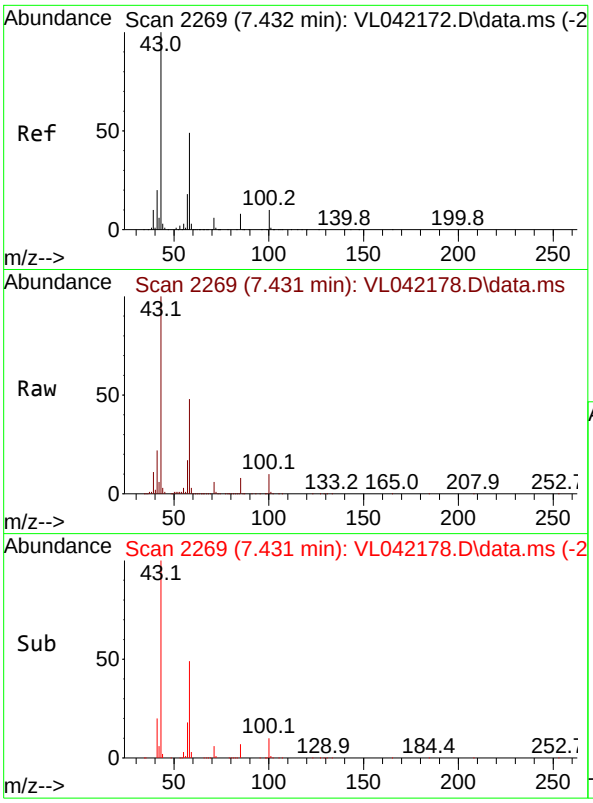




#50
4-Methyl-2-Pentanone
Concen: 13.155 ppbv
RT: 5.745 min Scan# 1748
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 43 Resp: 755146

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 35.5 | 29.0 | 43.6 |



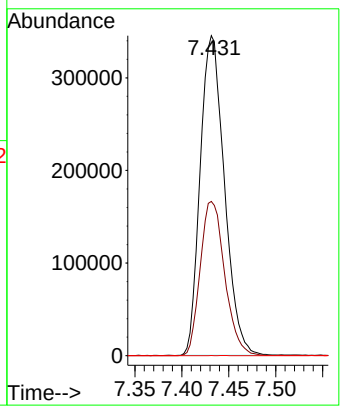


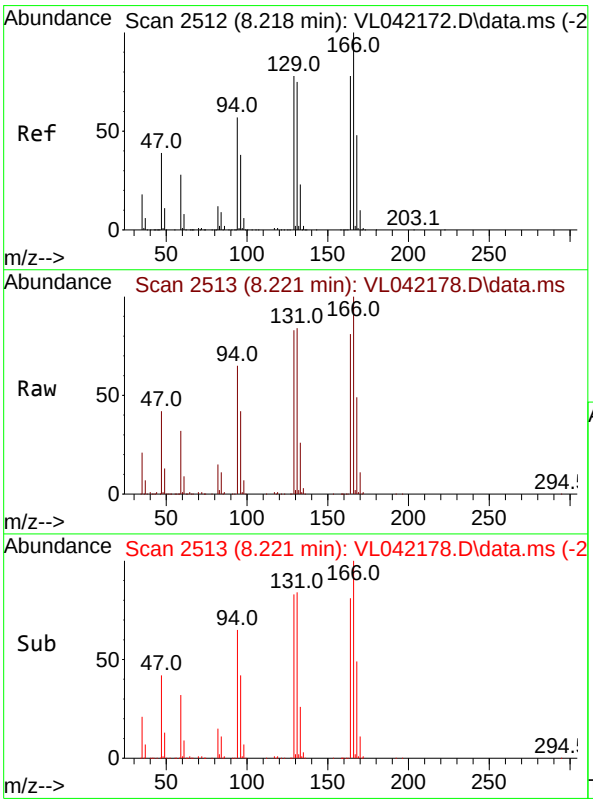

#51
2-Hexanone
Concen: 13.005 ppbv
RT: 7.431 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion: 43 Resp: 619419

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 49.0 | 39.7 | 59.5 |
| 98 | 0.0 | 0.1 | 0.1# |

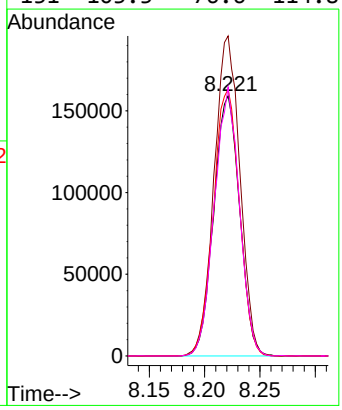


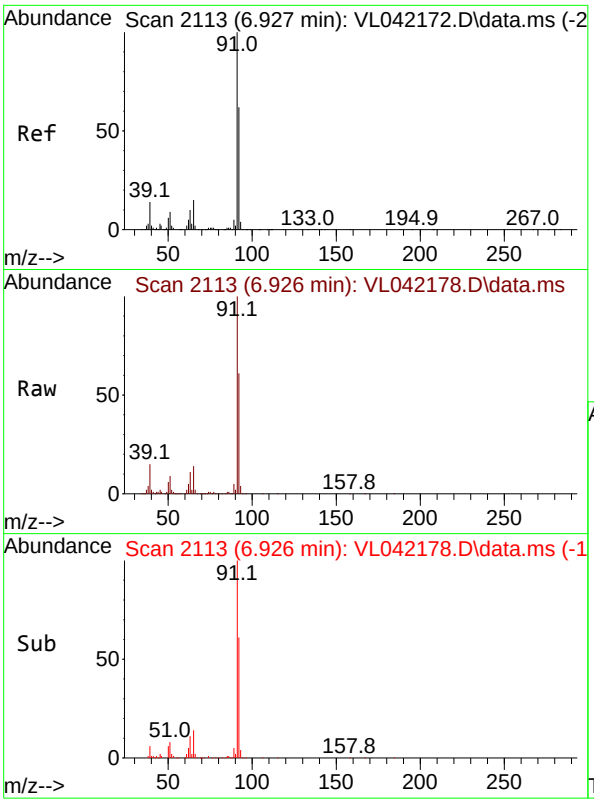




#52
Tetrachloroethene
Concen: 13.159 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:164 Resp: 258356

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 123.0 | 102.5 | 153.7 |
| 129 | 102.5 | 79.8 | 119.8 |
| 131 | 103.3 | 76.6 | 114.8 |



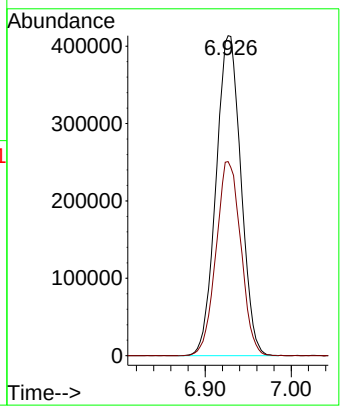


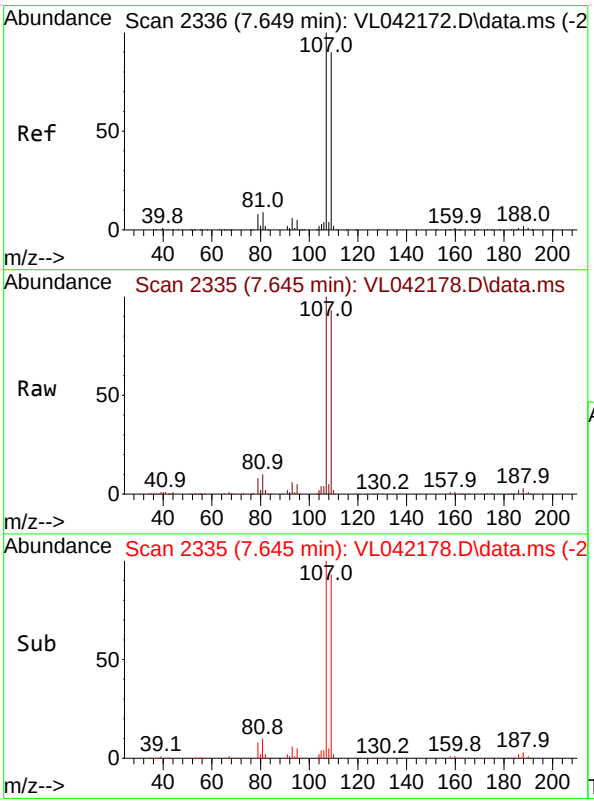

#53
Toluene
Concen: 14.137 ppbv
RT: 6.926 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion: 91 Resp: 829648

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 60.6 | 48.4 | 72.6 |

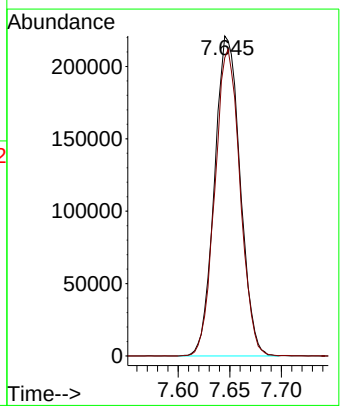


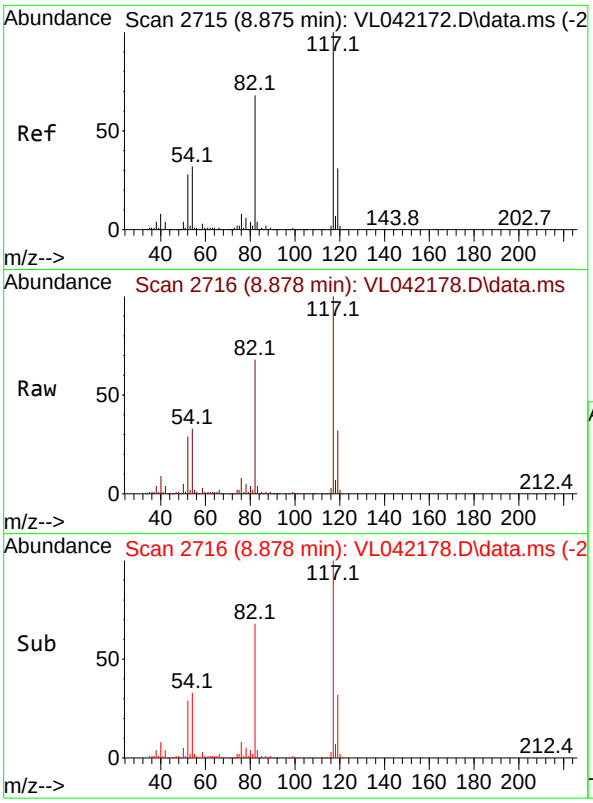




#54
1,2-Dibromoethane
Concen: 14.359 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.004 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:107 Resp: 381823

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 93.2 | 72.2 | 108.4 |



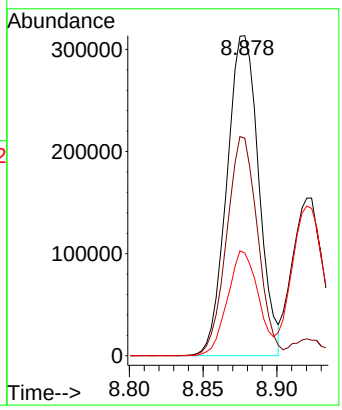


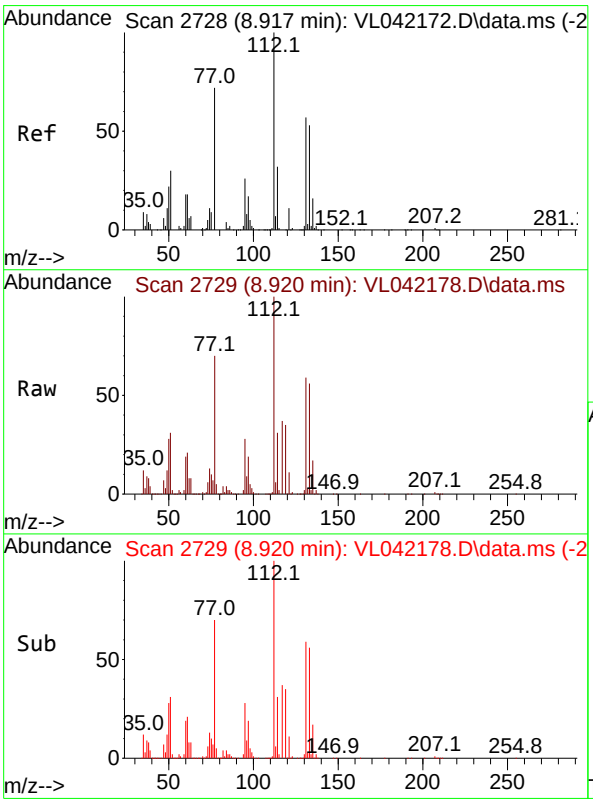

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion:117 Resp: 473077

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 71.4 | 55.8 | 83.6 |
| 119 | 31.7 | 25.5 | 38.3 |

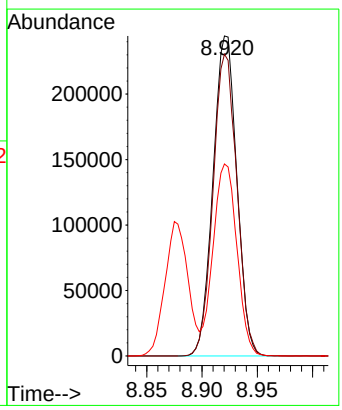


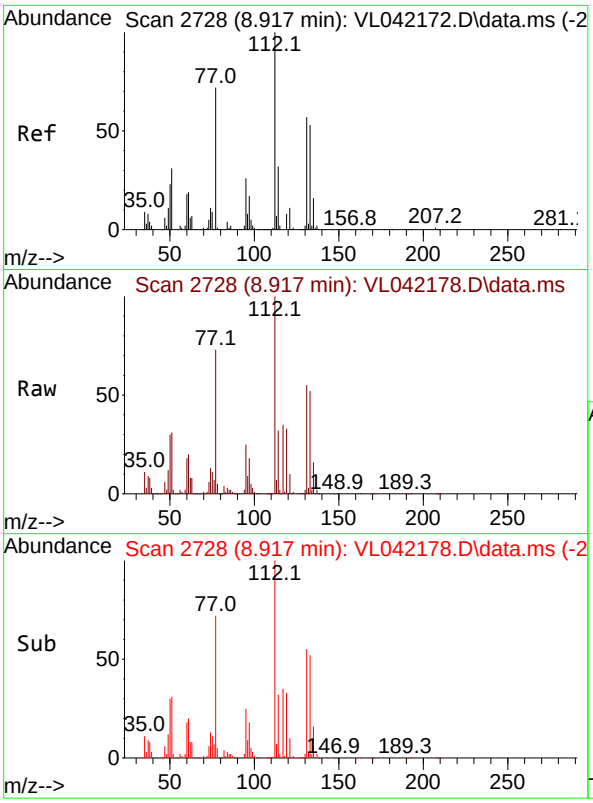




#56
1,1,1,2-Tetrachloroethane
Concen: 14.032 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:131 Resp: 365410

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.5 | 76.6 | 114.8 |
| 119 | 61.2 | 49.8 | 74.6 |



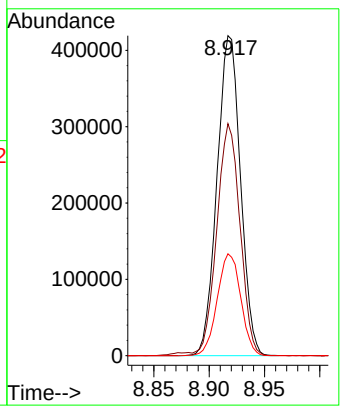


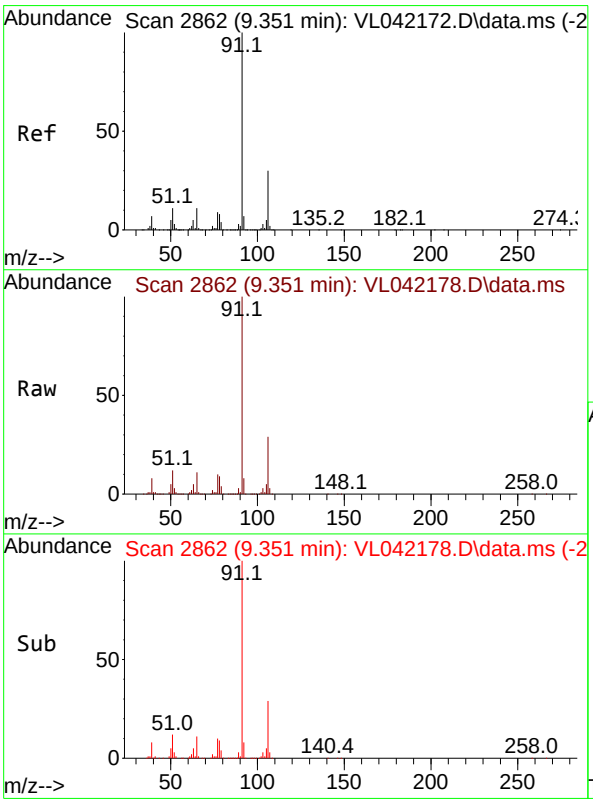

#57
Chlorobenzene
Concen: 13.777 ppbv
RT: 8.917 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion:112 Resp: 618201

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 72.5 | 58.2 | 87.2 |
| 114 | 31.8 | 29.1 | 35.5 |

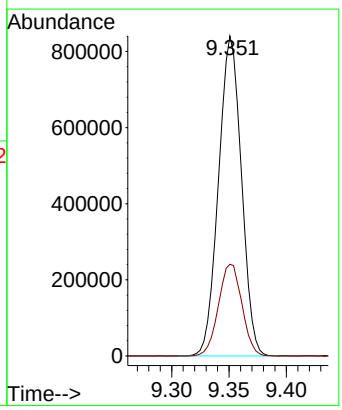


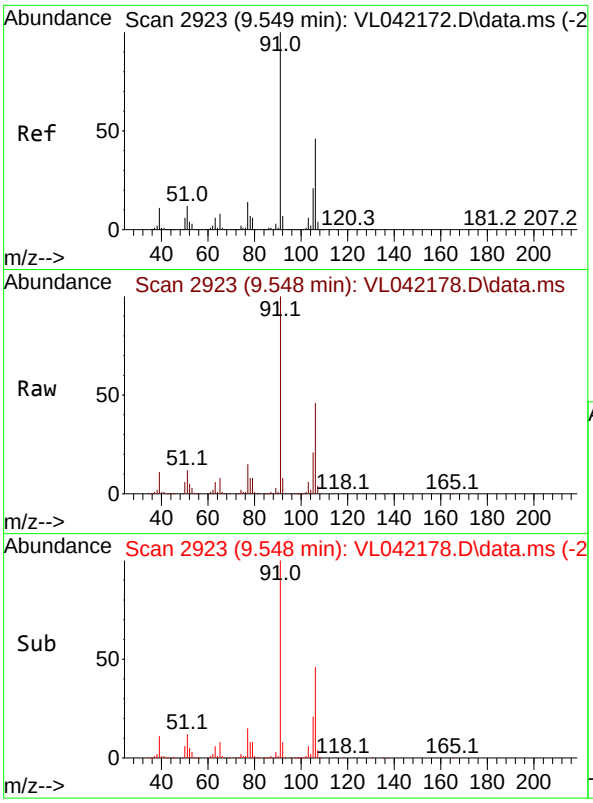




#58
Ethyl Benzene
Concen: 13.889 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 91 Resp: 1167096

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 28.7 | 24.2 | 36.2 |



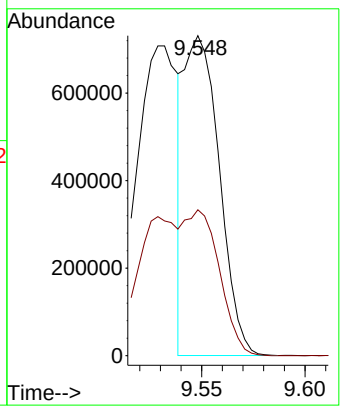


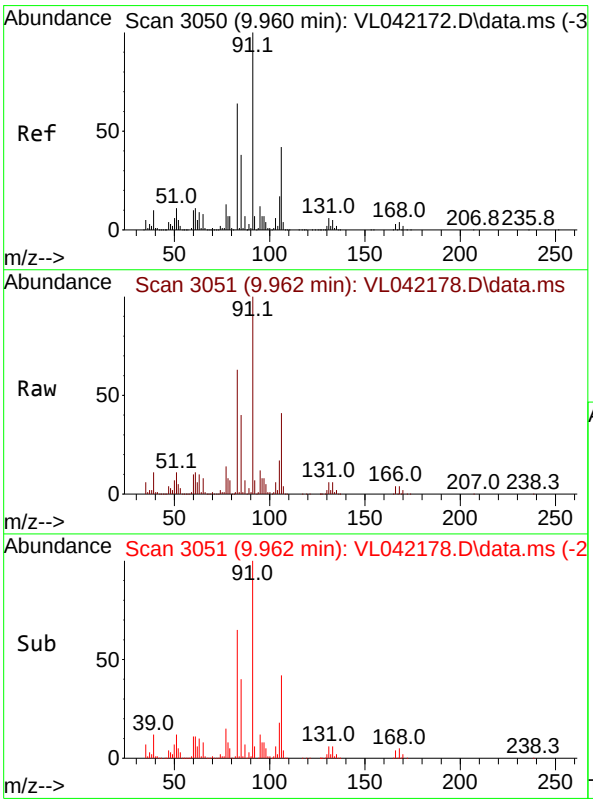

#59
m/p-Xylene
Concen: 12.901 ppbv
RT: 9.548 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion: 91 Resp: 866684

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 96.9 | 36.4 | 54.6# |

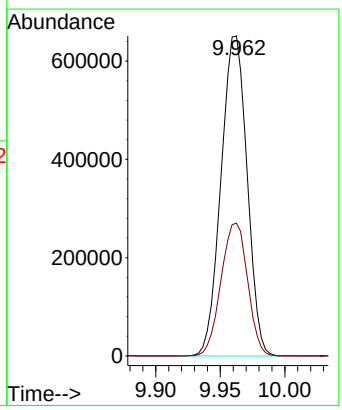


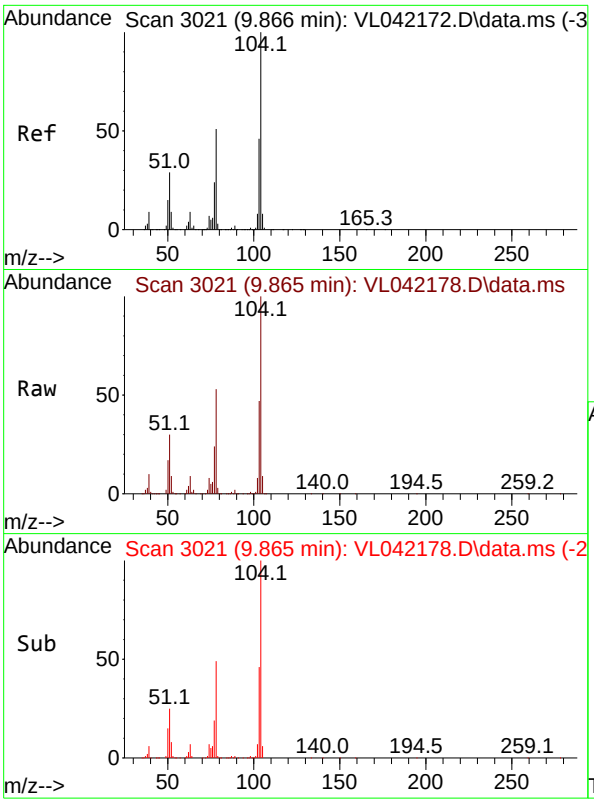




#60
o-Xylene
Concen: 13.577 ppbv
RT: 9.962 min Scan# 3051
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 91 Resp: 913234

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 42.4 | 20.8 | 62.5 |



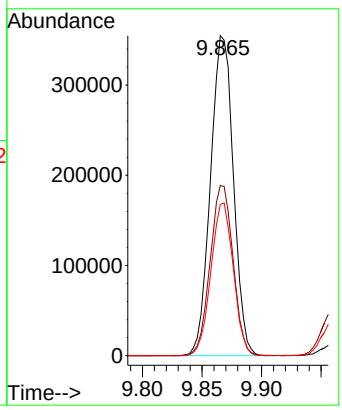


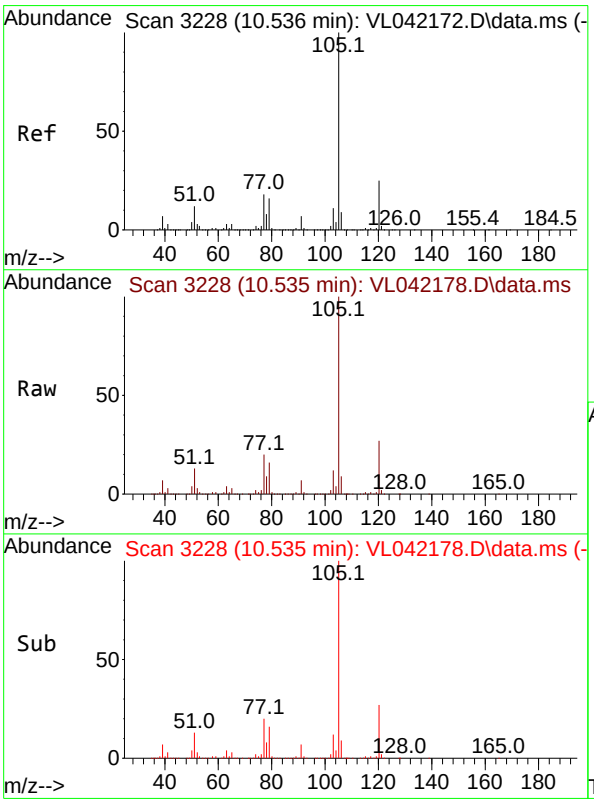

#61
Styrene
Concen: 14.250 ppbv
RT: 9.865 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion:104 Resp: 474195

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 53.0 | 41.8 | 62.6 |
| 103 | 46.7 | 37.0 | 55.4 |

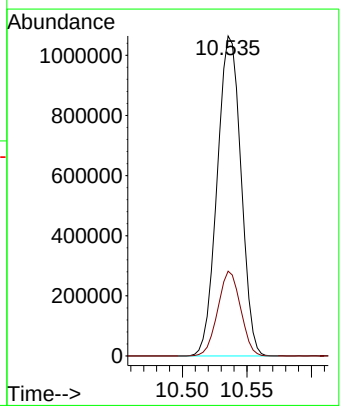


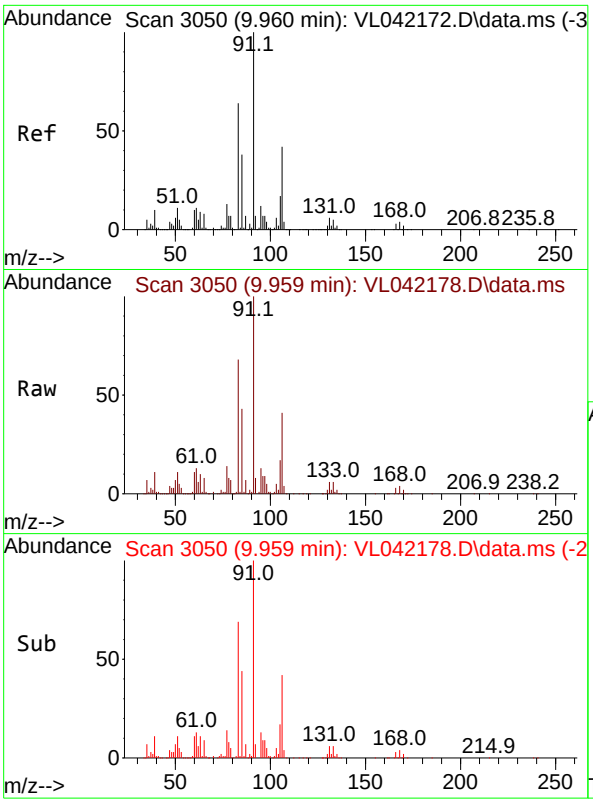




#62
Isopropylbenzene
Concen: 13.544 ppbv
RT: 10.535 min Scan# 3228
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:105 Resp: 1362416

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.3 | 19.9 | 29.9 |



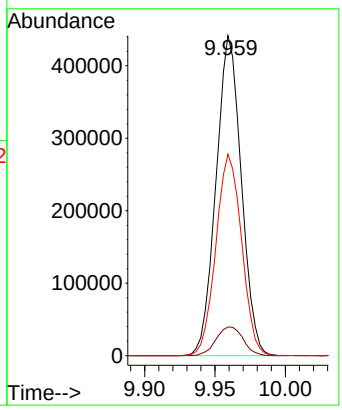


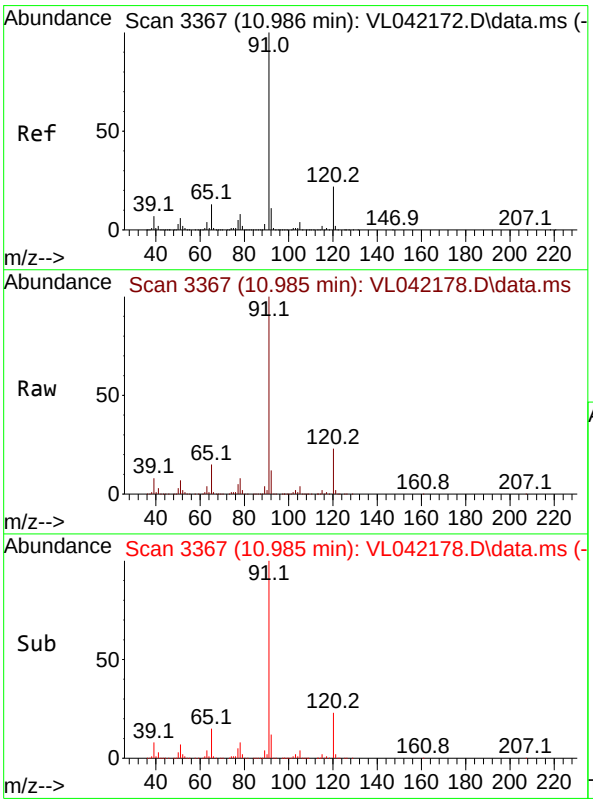

#63
1,1,2,2-Tetrachloroethane
Concen: 13.491 ppbv
RT: 9.959 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion: 83 Resp: 551386

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.6 | 4.8 | 14.4 |
| 85 | 64.2 | 32.5 | 97.5 |

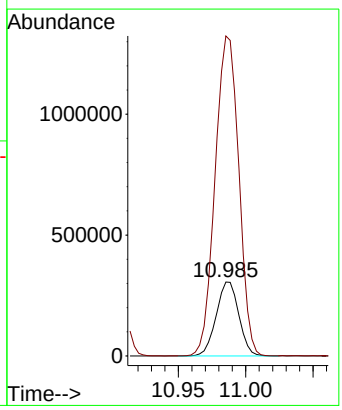


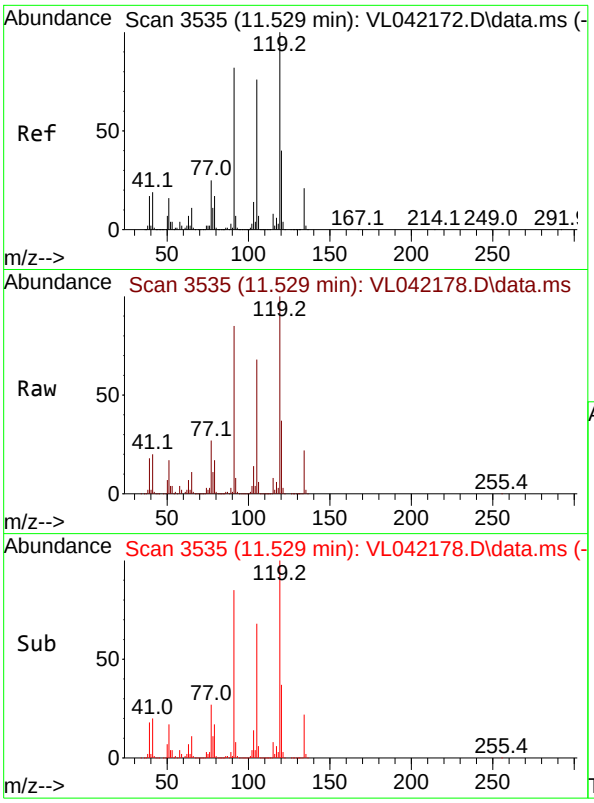




#64
n-propylbenzene
Concen: 13.753 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:120 Resp: 356118

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 455.4 | 376.9 | 565.3 |



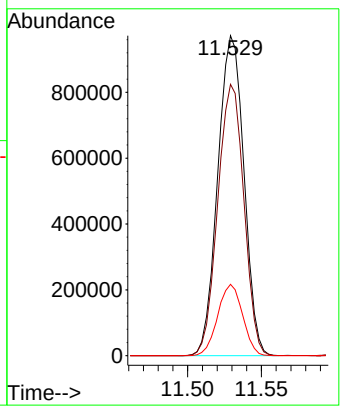


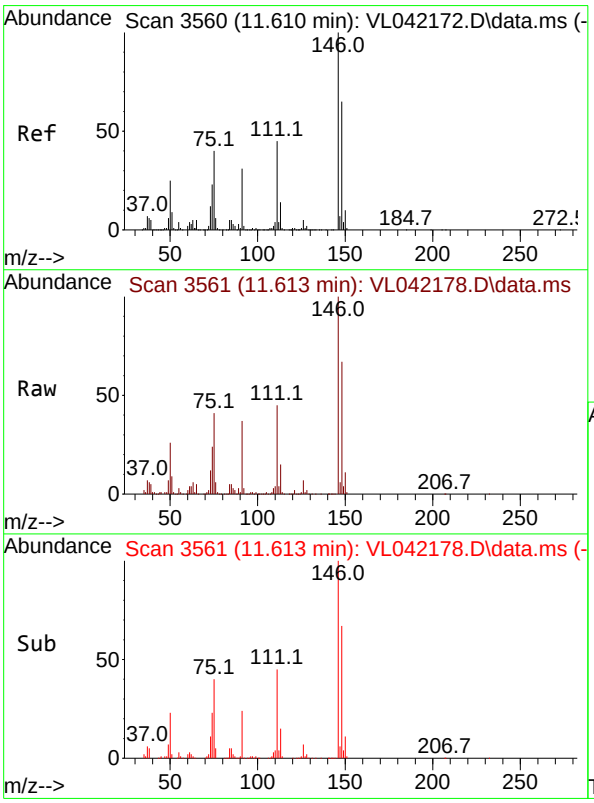

#65
tert-Butylbenzene
Concen: 12.901 ppbv
RT: 11.529 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion:119 Resp: 1200149

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 84.6 | 66.0 | 99.0 |
| 134 | 21.2 | 16.7 | 25.1 |

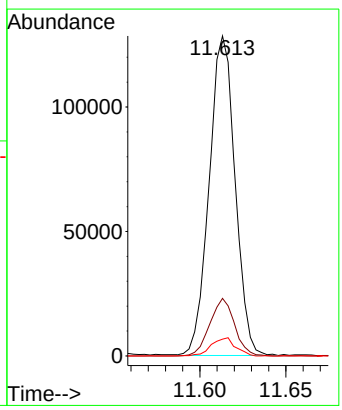


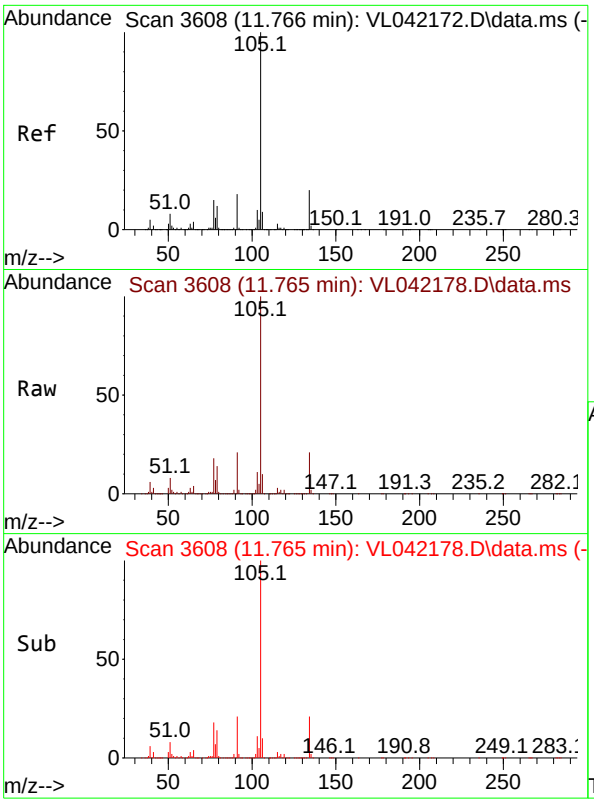




#66
Benzyl Chloride
Concen: 13.615 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 91 Resp: 134397

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 17.3 | 13.8 | 20.6 |
| 128 | 5.4 | 4.5 | 6.7 |



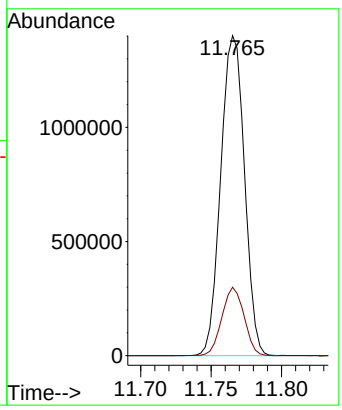


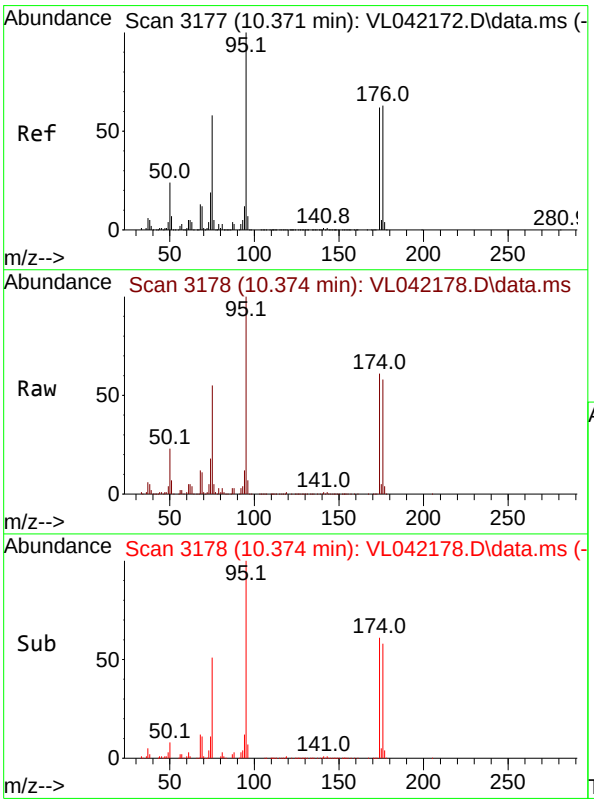

#67
sec-Butylbenzene
Concen: 12.711 ppbv
RT: 11.765 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion:105 Resp: 1643629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 20.0 | 15.5 | 23.3 |

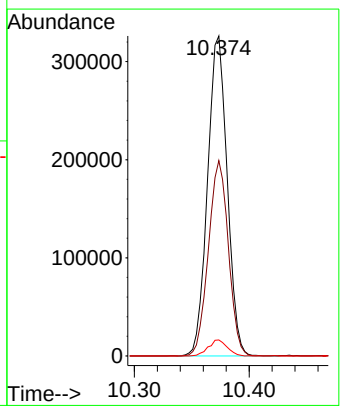


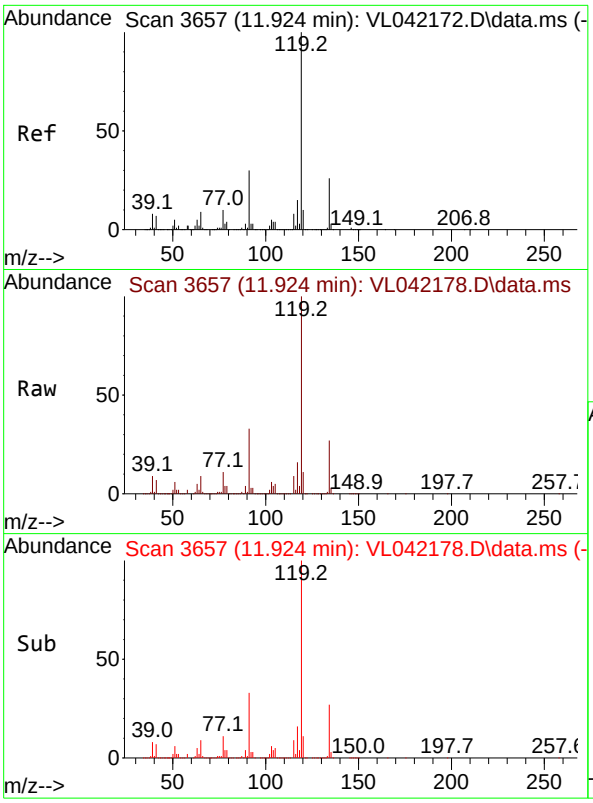




#68
1-Bromo-4-Fluorobenzene
Concen: 9.981 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 95 Resp: 387777

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 62.1 | 50.6 | 76.0 |
| 175 | 4.8 | 3.8 | 5.6 |



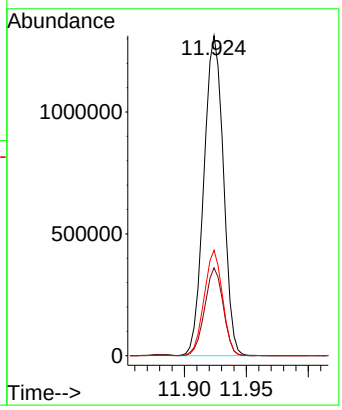


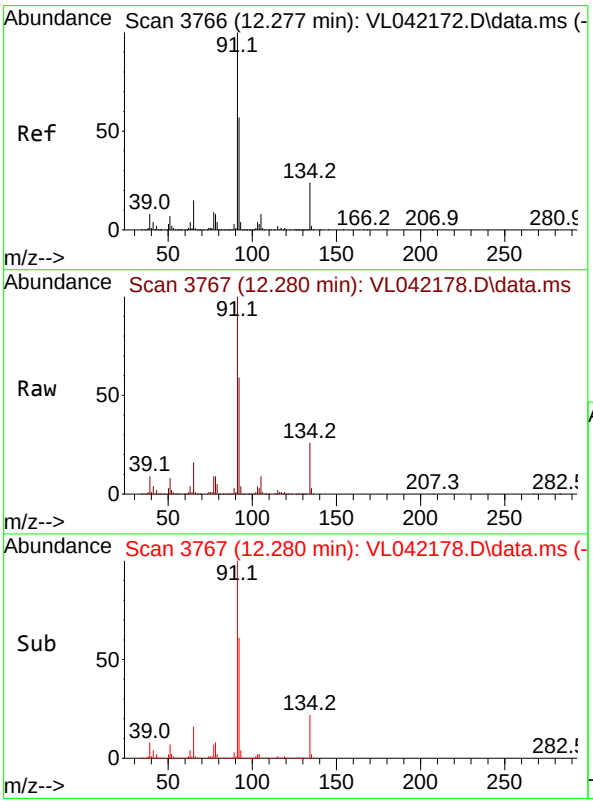

#69
p-Isopropyltoluene
Concen: 12.906 ppbv
RT: 11.924 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion:119 Resp: 1437016

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.2 | 20.4 | 30.6 |
| 91 | 31.2 | 23.7 | 35.5 |

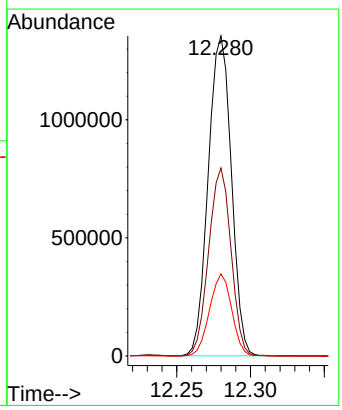


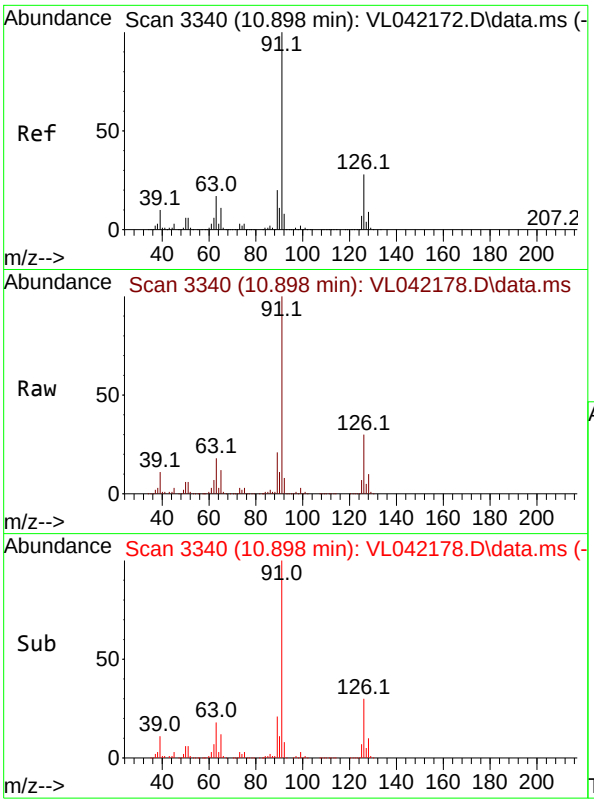




#70
n-Butylbenzene
Concen: 12.975 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 91 Resp: 1477443

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 57.0 | 44.9 | 67.3 |
| 134 | 24.6 | 19.2 | 28.8 |



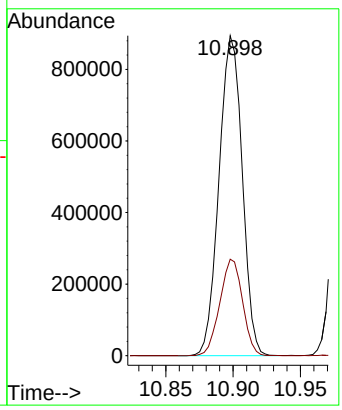


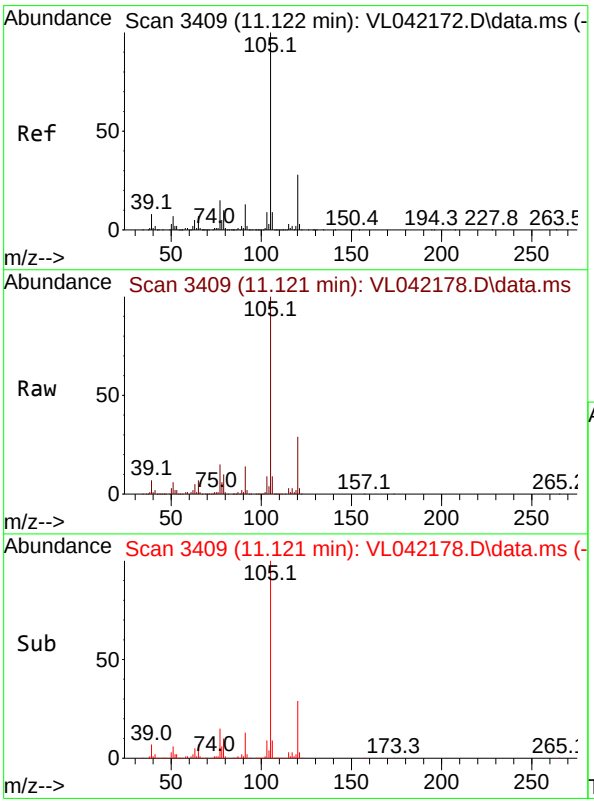

#71
2-Chlorotoluene
Concen: 13.724 ppbv
RT: 10.898 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion: 91 Resp: 1071432

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 29.5 | 11.6 | 46.4 |

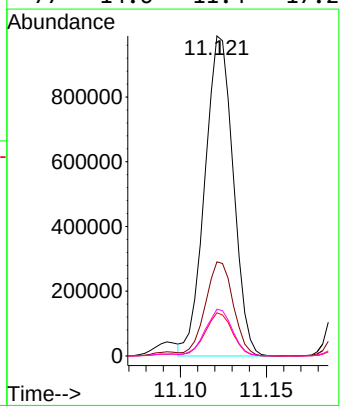


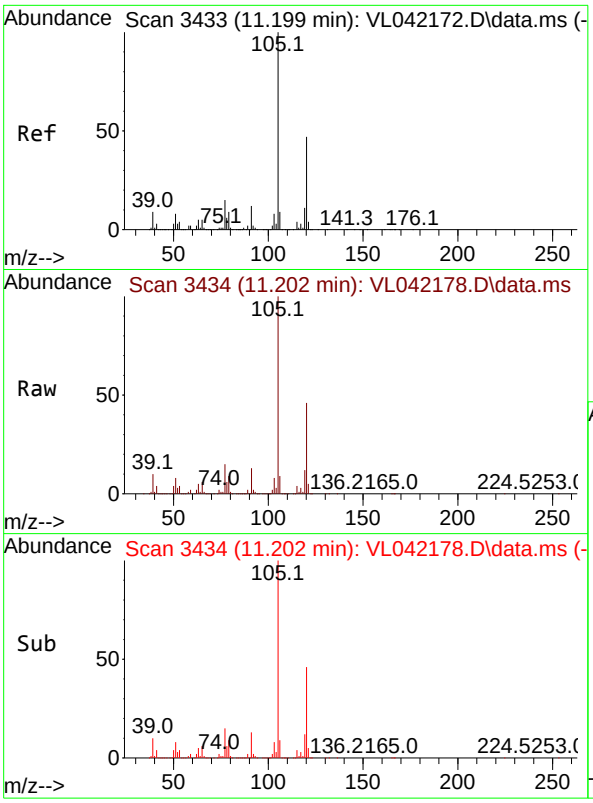




#72
4-Ethyltoluene
Concen: 13.569 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:105 Resp: 1136415

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 30.1 | 23.4 | 35.0 |
| 91 | 13.5 | 10.3 | 15.5 |
| 77 | 14.6 | 11.4 | 17.2 |



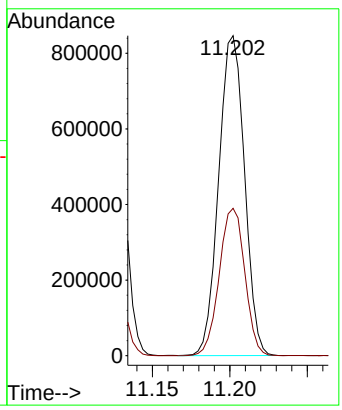


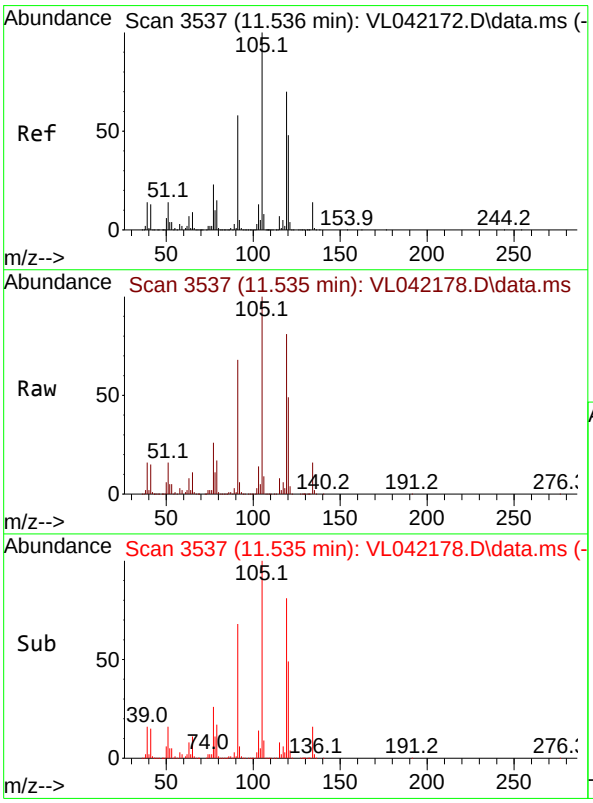

#73
1,3,5-Trimethylbenzene
Concen: 13.395 ppbv
RT: 11.202 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion:105 Resp: 979783

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.1 | 37.4 | 56.0 |

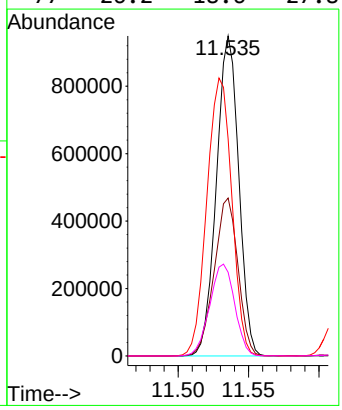


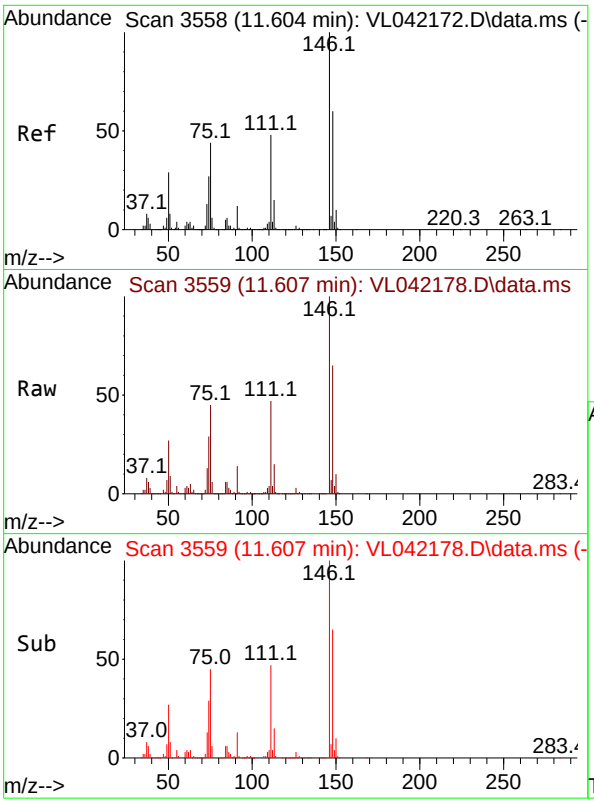




#74
1,2,4-Trimethylbenzene
Concen: 12.447 ppbv
RT: 11.535 min Scan# 3537
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:105 Resp: 1048874

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 49.3 | 38.6 | 58.0 |
| 91 | 67.8 | 46.2 | 69.2 |
| 77 | 26.2 | 18.6 | 27.8 |



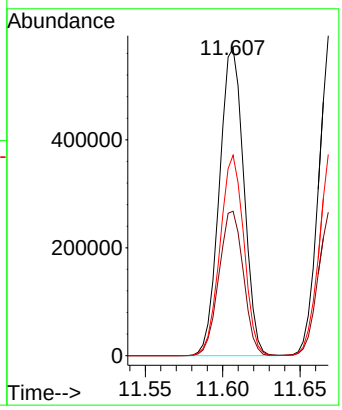


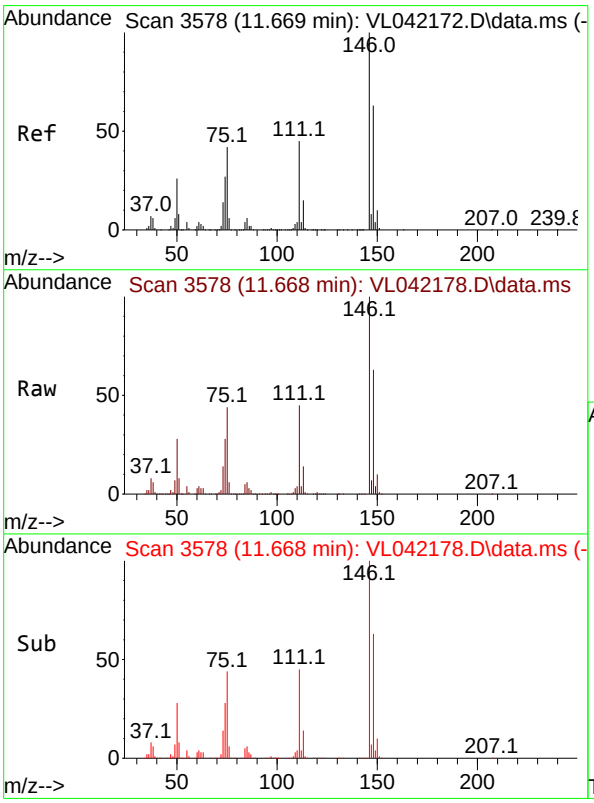

#75
1,3-Dichlorobenzene
Concen: 13.545 ppbv
RT: 11.607 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion:146 Resp: 626015

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 47.0 | 23.8 | 71.2 |
| 148 | 63.5 | 31.9 | 95.9 |

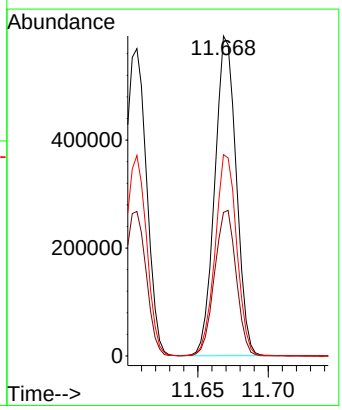


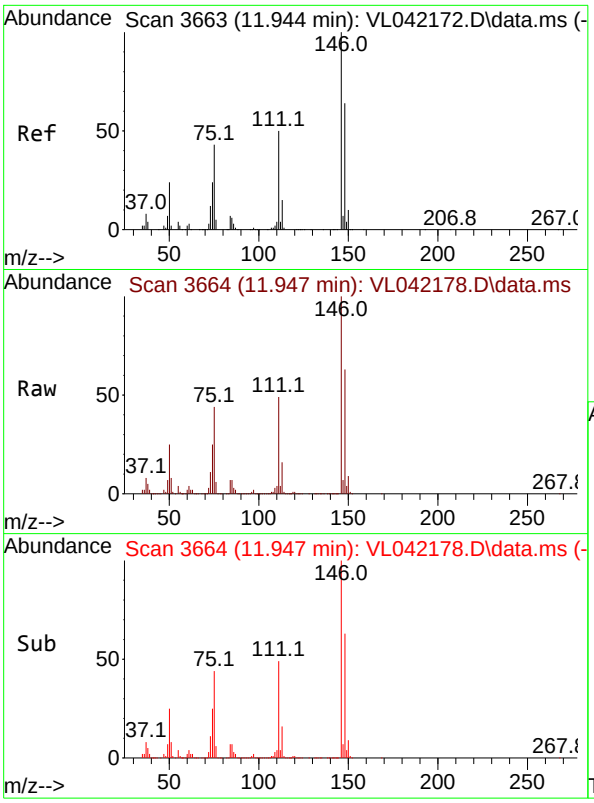




#76
1,4-Dichlorobenzene
Concen: 13.668 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:146 Resp: 628694

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 46.1 | 23.0 | 69.0 |
| 148 | 63.6 | 31.9 | 95.7 |



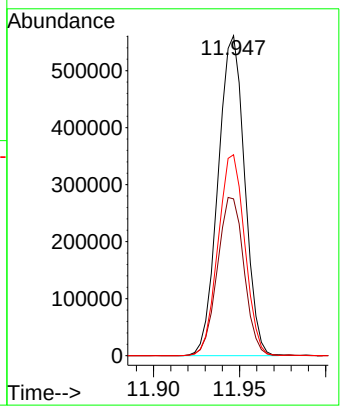


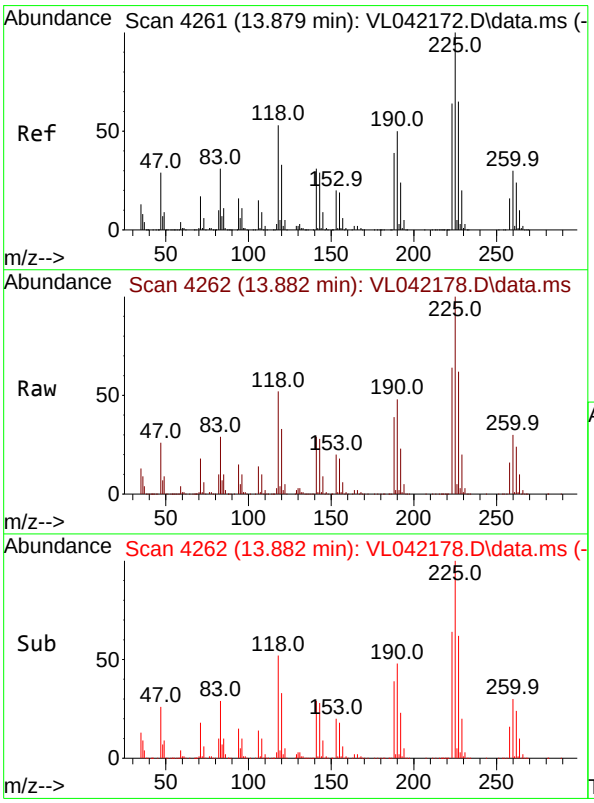

#77
1,2-Dichlorobenzene
Concen: 13.396 ppbv
RT: 11.947 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion:146 Resp: 602844

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 49.7 | 24.8 | 74.3 |
| 148 | 63.3 | 31.6 | 94.8 |

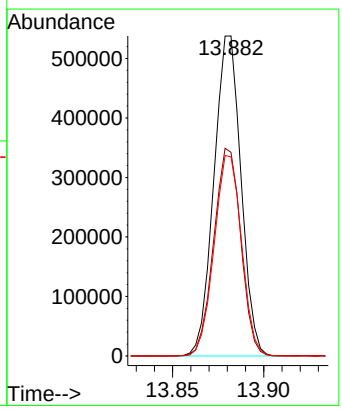


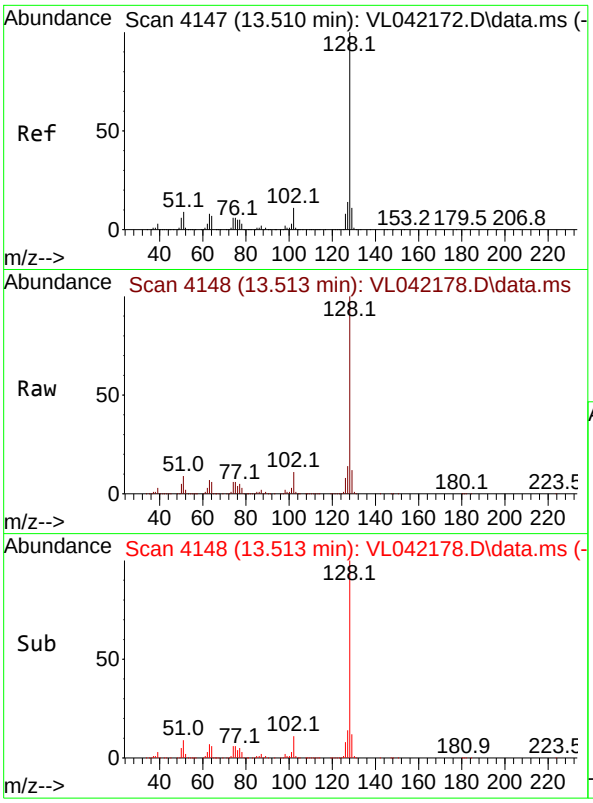




#78
Hexachloro-1,3-Butadiene
Concen: 12.147 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:225 Resp: 556392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 64.7 | 50.6 | 76.0 |
| 227 | 63.3 | 51.2 | 76.8 |



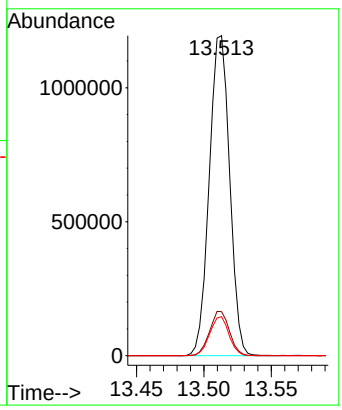


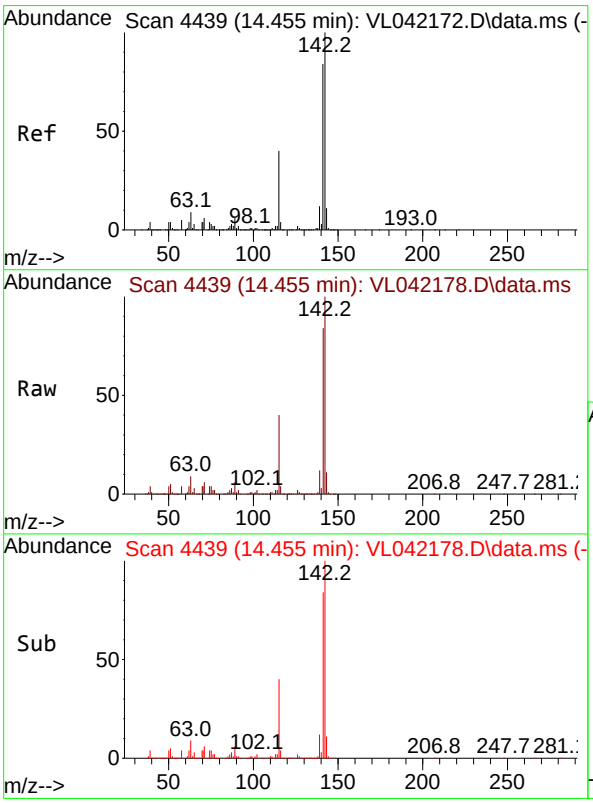

#79
Naphthalene
Concen: 13.653 ppbv
RT: 13.513 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion:128 Resp: 1258479

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.8 | 10.8 | 16.2 |
| 129 | 12.2 | 9.0 | 13.4 |

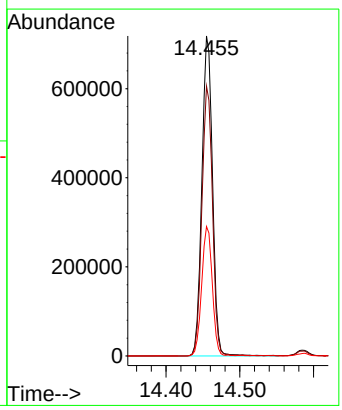


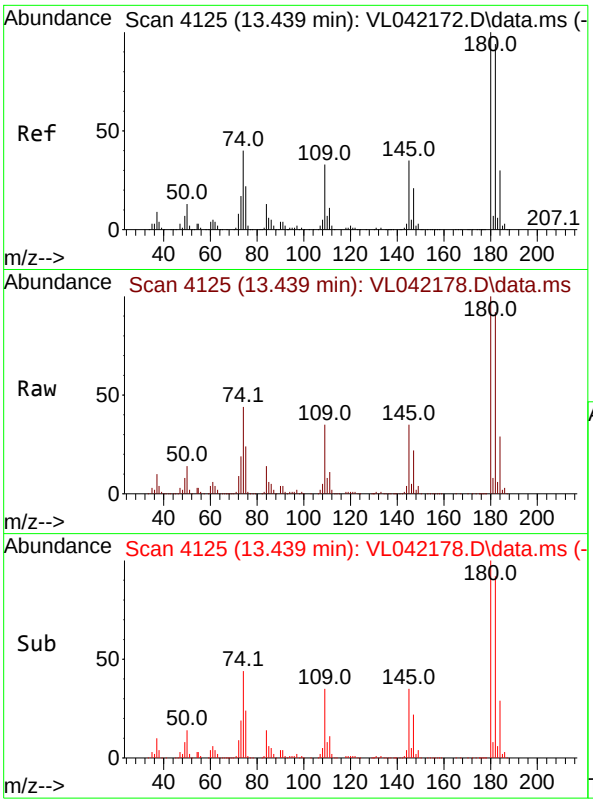




#80
Naphthalene,2-methyl-
Concen: 16.018 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:142 Resp: 718900

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 84.3 | 66.3 | 99.5 |
| 115 | 40.6 | 31.6 | 47.4 |



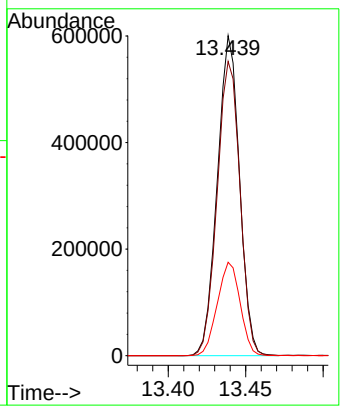



#81
1,2,4-Trichlorobenzene
Concen: 14.075 ppbv
RT: 13.439 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion:180 Resp: 598416

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.7 | 75.1 | 112.7 |
| 184 | 30.1 | 24.4 | 36.6 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042179.D
Acq On : 27 Mar 2025 12:23
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

Quant Time: Mar 28 02:05:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.784 | 49 | 174350 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.952 | 114 | 498105 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.878 | 117 | 473357 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.374 | 95 | 379929 | 9.774 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 97.700% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.496 | 85 | 245714 | 9.545 | ppbv | 100 |
| 3) Chlorodifluoromethane | 1.473 | 51 | 247046 | 9.394 | ppbv | 97 |
| 4) Chloromethane | 1.531 | 50 | 98527 | 9.365 | ppbv | 98 |
| 5) Vinyl Chloride | 1.577 | 62 | 95578 | 8.573 | ppbv | 97 |
| 6) Bromomethane | 1.667 | 94 | 41950 | 8.799 | ppbv | 97 |
| 7) Chloroethane | 1.703 | 64 | 37400 | 8.856 | ppbv | 94 |
| 8) Dichlorotetrafluoroethane | 1.551 | 85 | 213819 | 9.753 | ppbv | 95 |
| 9) Propene | 1.483 | 41 | 105338 | 8.739 | ppbv | 99 |
| 10) Heptane | 4.972 | 43 | 298768 | 9.318 | ppbv | 100 |
| 11) Trichlorofluoromethane | 1.874 | 101 | 236793 | 9.453 | ppbv | 97 |
| 12) 1,1,2-Trichlorotrifluo... | 2.136 | 101 | 193965 | 9.421 | ppbv | 98 |
| 13) Ethanol | 1.719 | 45 | 5773 | 5.066 | ppbv | 97 |
| 14) Bromoethene | 1.780 | 108 | 73572 | 9.328 | ppbv | 97 |
| 15) Acetone | 1.832 | 43 | 198300 | 8.132 | ppbv | 98 |
| 16) 1,3-Butadiene | 1.606 | 39 | 97840 | 8.216 | ppbv | 99 |
| 17) tert-Butyl alcohol | 2.039 | 59 | 276195 | 9.094 | ppbv | 99 |
| 18) 1,1-Dichloroethene | 2.033 | 96 | 87137 | 9.053 | ppbv | 89 |
| 19) Isopropyl Alcohol | 1.884 | 45 | 122768 | 8.923 | ppbv | 98 |
| 20) Methylene Chloride | 2.059 | 84 | 72813 | 8.018 | ppbv | 97 |
| 21) Allyl Chloride | 2.094 | 41 | 157418 | 9.154 | ppbv | 99 |
| 22) trans-1,2-Dichloroethene | 2.337 | 96 | 101141 | 9.092 | ppbv | 93 |
| 23) Vinyl Acetate | 2.460 | 43 | 90260 | 8.553 | ppbv # | 97 |
| 24) 1,1-Dichloroethane | 2.405 | 63 | 197968 | 9.600 | ppbv | 99 |
| 25) Ethyl Acetate | 2.832 | 43 | 592585 | 9.364 | ppbv | 99 |
| 26) Hexane | 2.823 | 57 | 231125 | 9.455 | ppbv | 99 |
| 27) Carbon Disulfide | 2.146 | 76 | 248834 | 9.493 | ppbv | 97 |
| 28) Methyl tert-Butyl Ether | 2.437 | 73 | 146470 | 9.624 | ppbv | 95 |
| 29) Chloroform | 2.845 | 83 | 344106 | 9.619 | ppbv | 100 |
| 30) Cyclohexane | 3.852 | 84 | 197897 | 9.323 | ppbv | 98 |
| 31) cis-1,2-Dichloroethene | 2.719 | 61 | 234487 | 9.449 | ppbv | 96 |
| 32) 1,1,1-Trichloroethane | 3.363 | 97 | 365364 | 8.921 | ppbv | 99 |
| 34) 2-Butanone | 2.554 | 43 | 331236 | 9.171 | ppbv | 99 |
| 35) Carbon Tetrachloride | 3.758 | 117 | 363392 | 9.339 | ppbv | 98 |
| 36) Benzene | 3.651 | 78 | 461261 | 9.341 | ppbv | 99 |
| 37) 1,2-Dichloroethane | 3.217 | 62 | 273559 | 9.676 | ppbv | 99 |
| 38) Trichloroethene | 4.541 | 130 | 191746 | 9.306 | ppbv | 97 |
| 39) 1,2-Dichloropropane | 4.311 | 63 | 170839 | 9.500 | ppbv | 95 |
| 40) 1,4-Dioxane | 4.577 | 88 | 80592 | 8.443 | ppbv # | 97 |
| 41) Tetrahydrofuran | 3.052 | 42 | 196163 | 9.431 | ppbv | 99 |
| 42) Bromodichloromethane | 4.486 | 83 | 384006 | 9.853 | ppbv | 100 |
| 43) Methyl Methacrylate | 4.878 | 69 | 195339 | 9.344 | ppbv | 99 |
| 44) 2,2,4-Trimethylpentane | 4.635 | 57 | 787400 | 9.436 | ppbv | 99 |
| 45) t-1,3-Dichloropropene | 6.409 | 75 | 212335 | 9.467 | ppbv | 99 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042179.D
Acq On : 27 Mar 2025 12:23
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

Quant Time: Mar 28 02:05:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

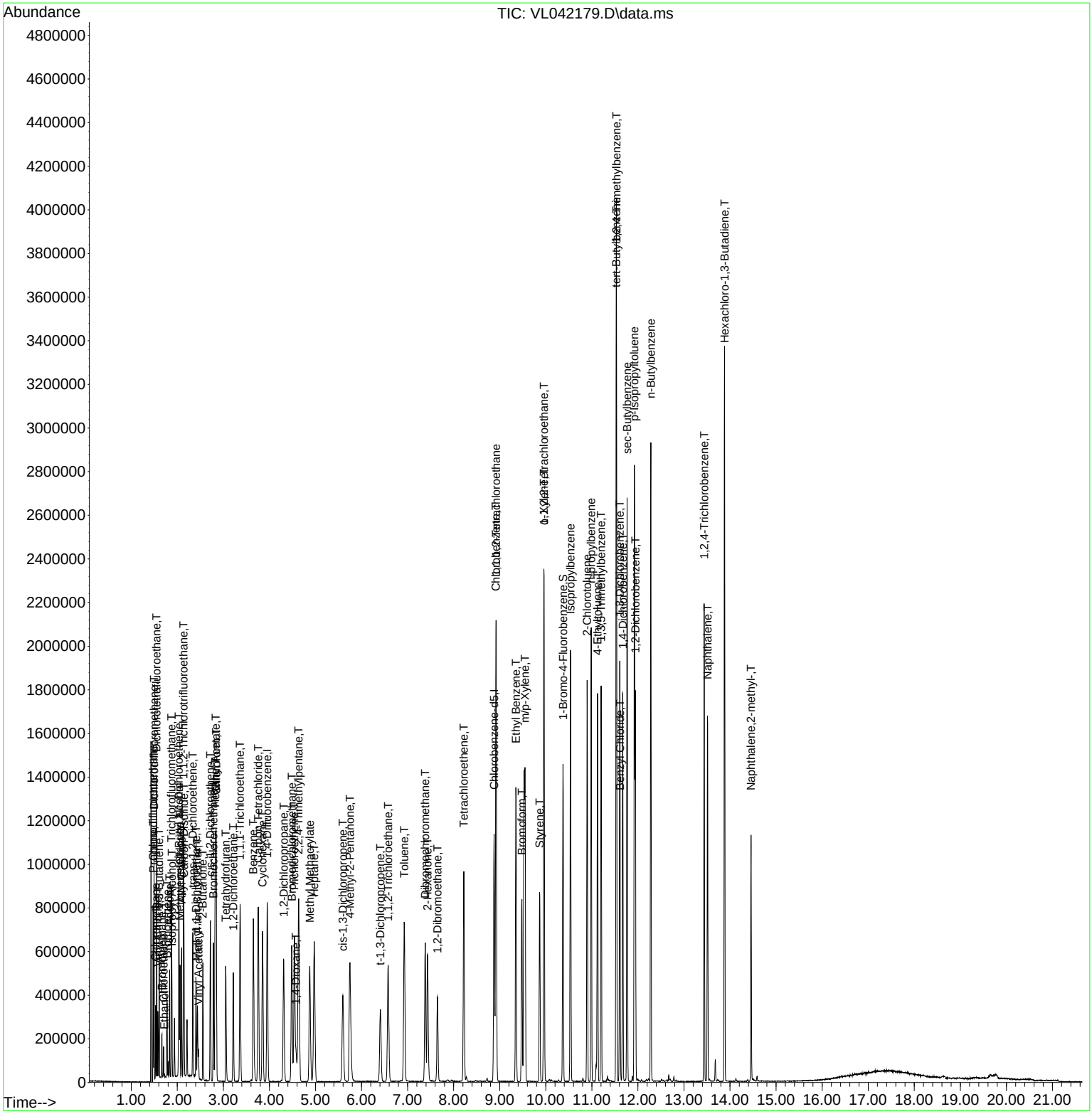
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.593 | 75 | 265101 | 9.643 | ppbv | | 98 |
| 47) 1,1,2-Trichloroethane | 6.577 | 97 | 183228 | 9.638 | ppbv | | 98 |
| 48) Dibromochloromethane | 7.383 | 129 | 322766 | 10.018 | ppbv | | 100 |
| 49) Bromoform | 9.480 | 173 | 285149 | 9.858 | ppbv | | 99 |
| 50) 4-Methyl-2-Pentanone | 5.749 | 43 | 500791 | 8.749 | ppbv | | 99 |
| 51) 2-Hexanone | 7.432 | 43 | 410889 | 8.741 | ppbv | # | 99 |
| 52) Tetrachloroethene | 8.221 | 164 | 173420 | 8.855 | ppbv | | 93 |
| 53) Toluene | 6.927 | 91 | 556897 | 9.514 | ppbv | | 99 |
| 54) 1,2-Dibromoethane | 7.645 | 107 | 256930 | 9.695 | ppbv | | 98 |
| 56) 1,1,1,2-Tetrachloroethane | 8.920 | 131 | 249270 | 9.567 | ppbv | | 99 |
| 57) Chlorobenzene | 8.917 | 112 | 422531 | 9.411 | ppbv | | 98 |
| 58) Ethyl Benzene | 9.351 | 91 | 791360 | 9.412 | ppbv | | 98 |
| 59) m/p-Xylene | 9.548 | 91 | 583773 | 8.695 | ppbv | # | 20 |
| 60) o-Xylene | 9.959 | 91 | 632918 | 9.404 | ppbv | | 99 |
| 61) Styrene | 9.866 | 104 | 315910 | 9.488 | ppbv | | 99 |
| 62) Isopropylbenzene | 10.539 | 105 | 944938 | 9.388 | ppbv | | 100 |
| 63) 1,1,2,2-Tetrachloroethane | 9.959 | 83 | 382635 | 9.357 | ppbv | | 99 |
| 64) n-propylbenzene | 10.985 | 120 | 244547 | 9.439 | ppbv | | 98 |
| 65) tert-Butylbenzene | 11.529 | 119 | 843828 | 9.065 | ppbv | | 98 |
| 66) Benzyl Chloride | 11.613 | 91 | 86804 | 8.789 | ppbv | | 97 |
| 67) sec-Butylbenzene | 11.765 | 105 | 1172636 | 9.063 | ppbv | | 100 |
| 69) p-Isopropyltoluene | 11.924 | 119 | 1019694 | 9.153 | ppbv | | 100 |
| 70) n-Butylbenzene | 12.280 | 91 | 1038548 | 9.115 | ppbv | | 100 |
| 71) 2-Chlorotoluene | 10.898 | 91 | 732874 | 9.382 | ppbv | | 100 |
| 72) 4-Ethyltoluene | 11.125 | 105 | 785185 | 9.370 | ppbv | | 99 |
| 73) 1,3,5-Trimethylbenzene | 11.202 | 105 | 673541 | 9.203 | ppbv | | 98 |
| 74) 1,2,4-Trimethylbenzene | 11.536 | 105 | 729155 | 8.648 | ppbv | | 94 |
| 75) 1,3-Dichlorobenzene | 11.607 | 146 | 426573 | 9.224 | ppbv | | 99 |
| 76) 1,4-Dichlorobenzene | 11.672 | 146 | 426318 | 9.263 | ppbv | | 100 |
| 77) 1,2-Dichlorobenzene | 11.947 | 146 | 412180 | 9.154 | ppbv | | 99 |
| 78) Hexachloro-1,3-Butadiene | 13.882 | 225 | 356386 | 7.776 | ppbv | | 100 |
| 79) Naphthalene | 13.513 | 128 | 773311 | 8.385 | ppbv | | 99 |
| 80) Naphthalene,2-methyl- | 14.455 | 142 | 323443 | 7.151 | ppbv | | 99 |
| 81) 1,2,4-Trichlorobenzene | 13.439 | 180 | 363863 | 8.553 | ppbv | | 98 |

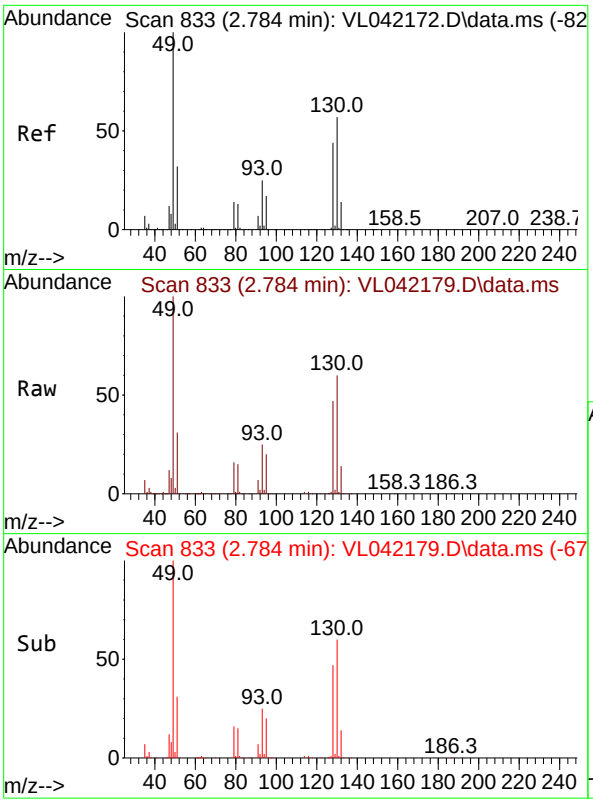
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042179.D
Acq On : 27 Mar 2025 12:23
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

Quant Time: Mar 28 02:05:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration



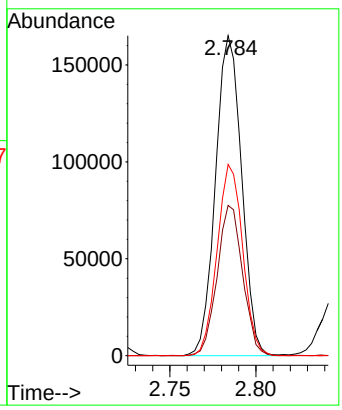


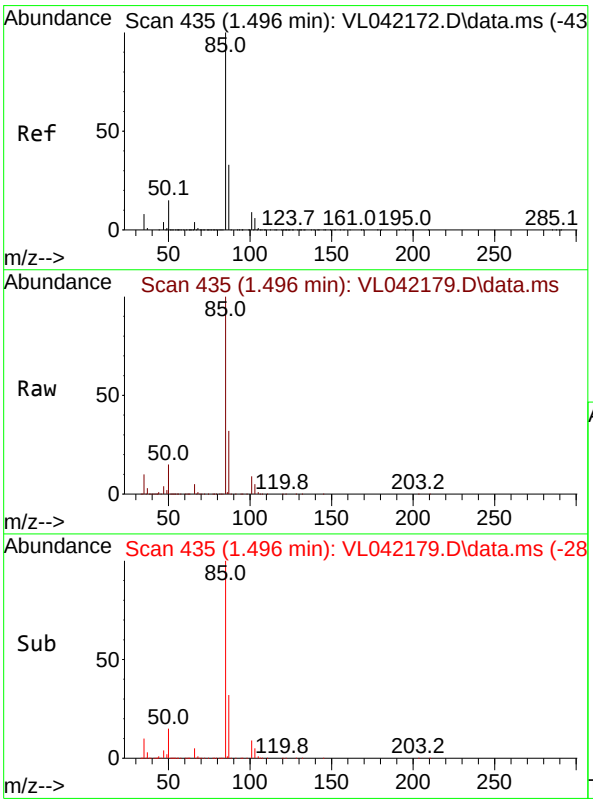

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

Tgt Ion: 49 Resp: 174350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 45.8 | 22.9 | 68.5 |
| 130 | 58.4 | 28.8 | 86.4 |

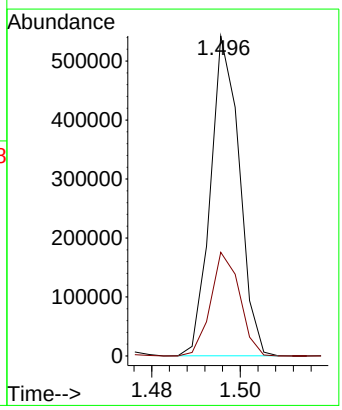


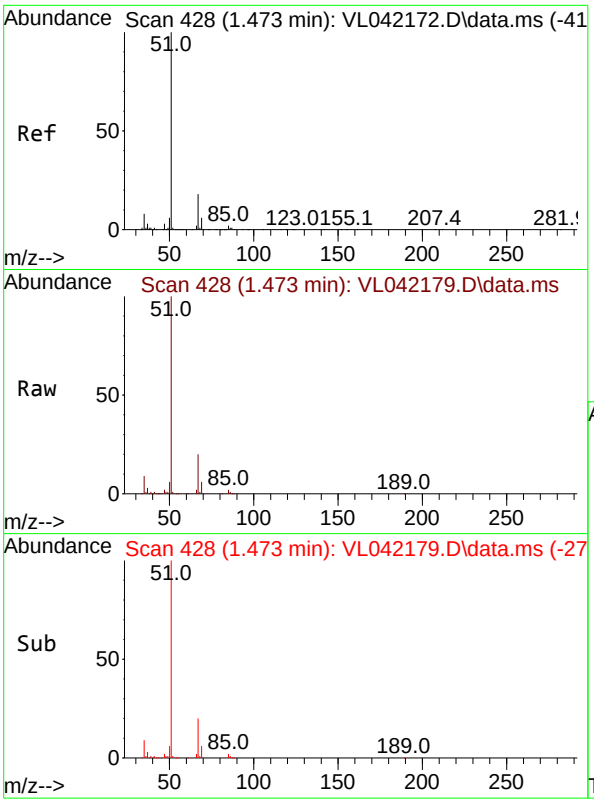




#2
Dichlorodifluoromethane
Concen: 9.545 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 85 Resp: 245714

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.4 | 26.1 | 39.1 |



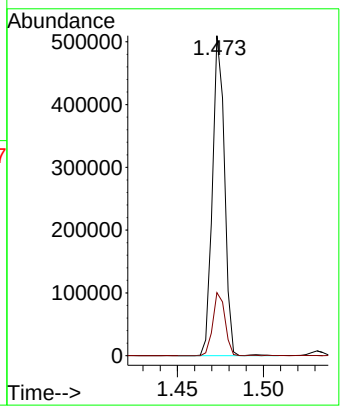


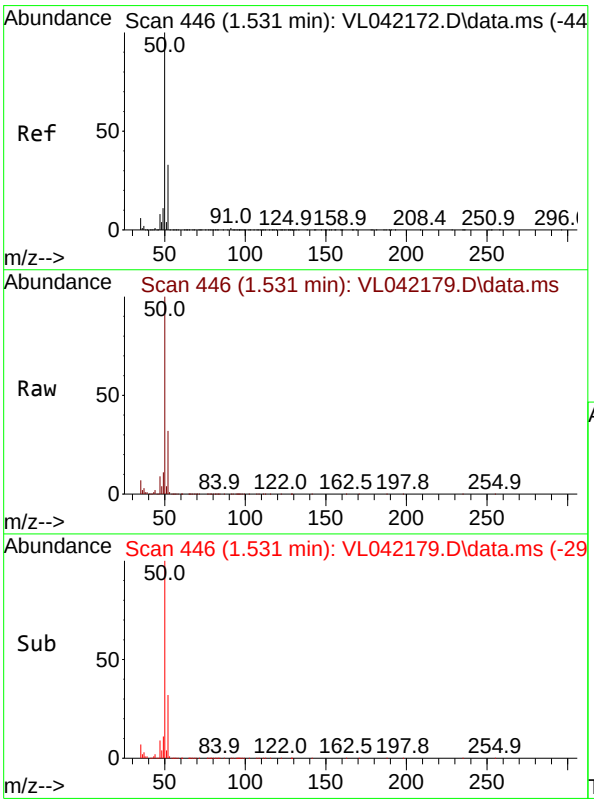

#3
Chlorodifluoromethane
Concen: 9.394 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

Tgt Ion: 51 Resp: 247046

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 20.1 | 15.0 | 22.6 |

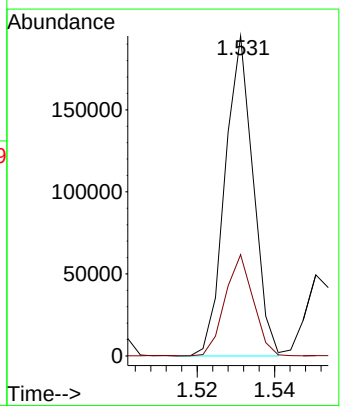


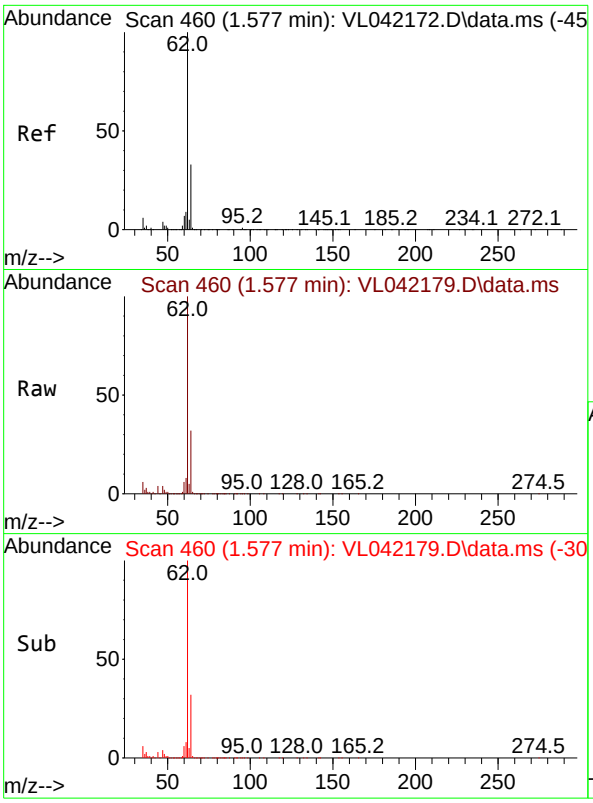




#4
Chloromethane
Concen: 9.365 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 50 Resp: 98527

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 31.6 | 26.1 | 39.1 |



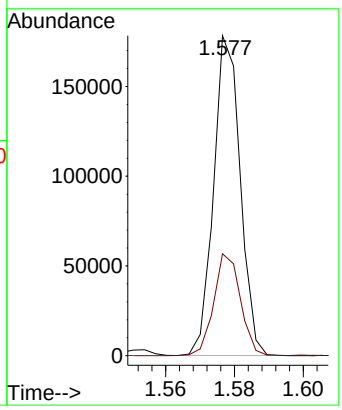


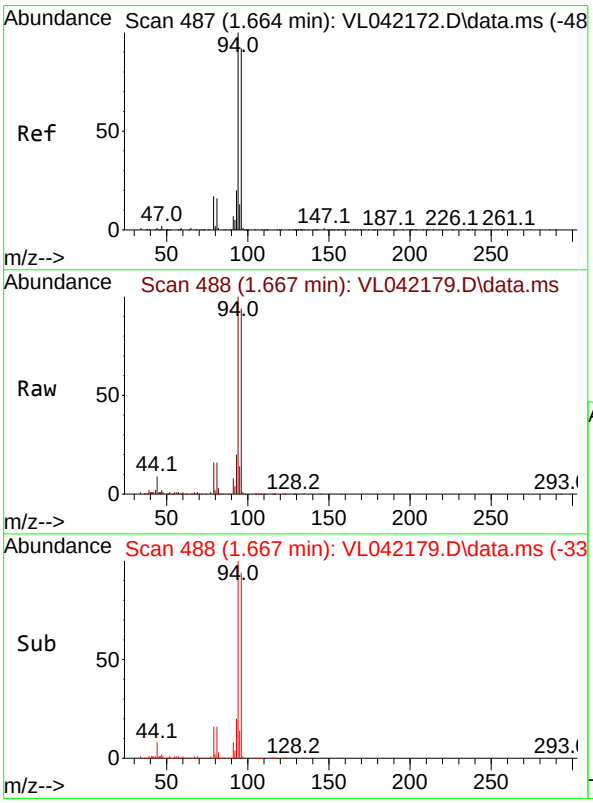

#5
Vinyl Chloride
Concen: 8.573 ppbv
RT: 1.577 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

Tgt Ion: 62 Resp: 95578

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.8 | 26.6 | 40.0 |

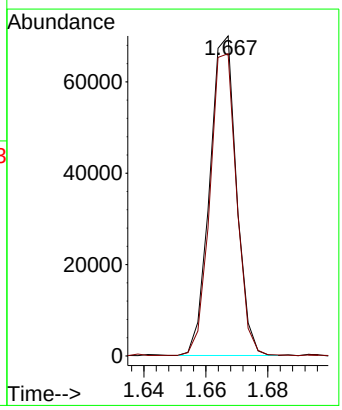


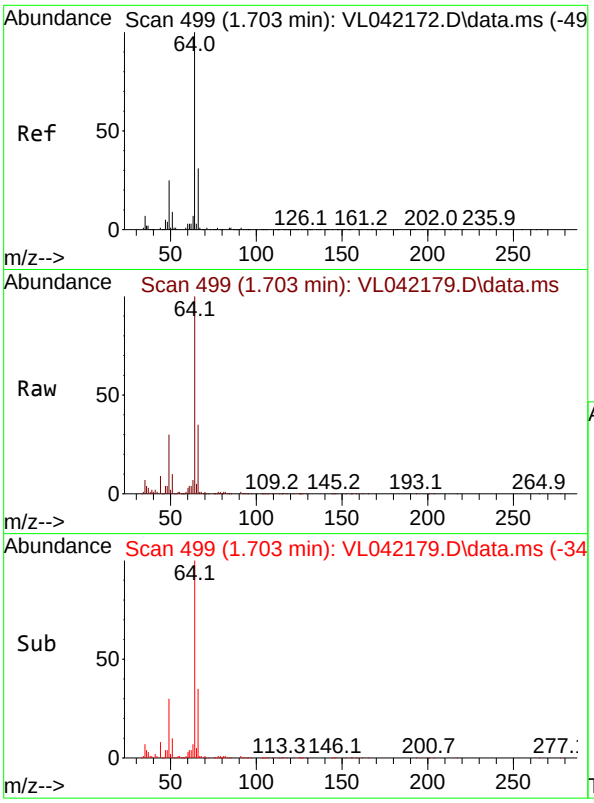




#6
Bromomethane
Concen: 8.799 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 94 Resp: 41950

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 94.4 | 73.1 | 109.7 |



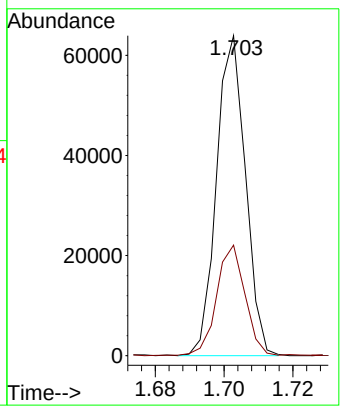


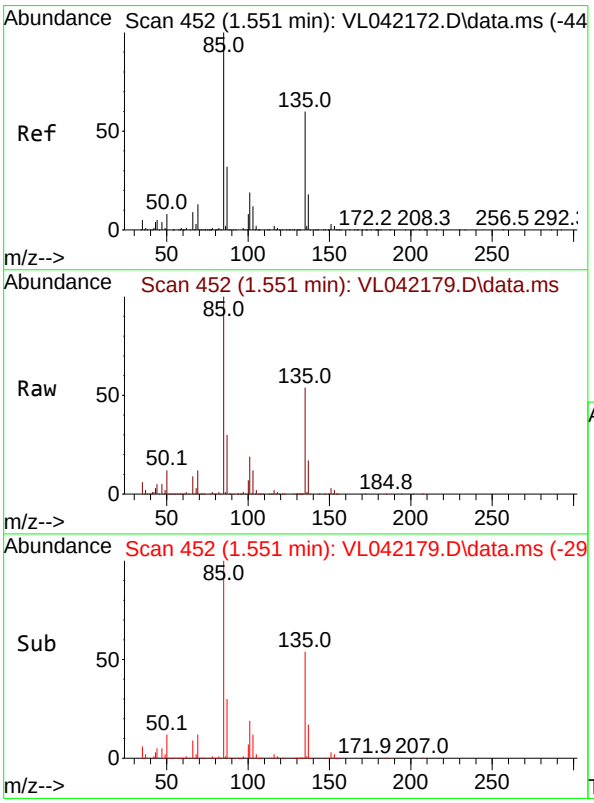

#7
Chloroethane
Concen: 8.856 ppbv
RT: 1.703 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

Tgt Ion: 64 Resp: 37400

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 34.5 | 25.2 | 37.8 |

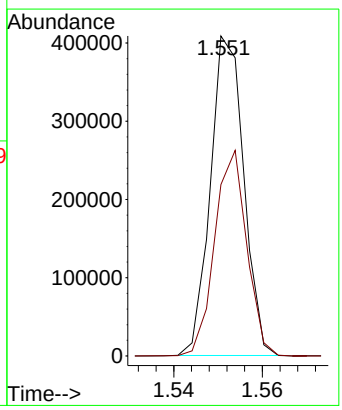


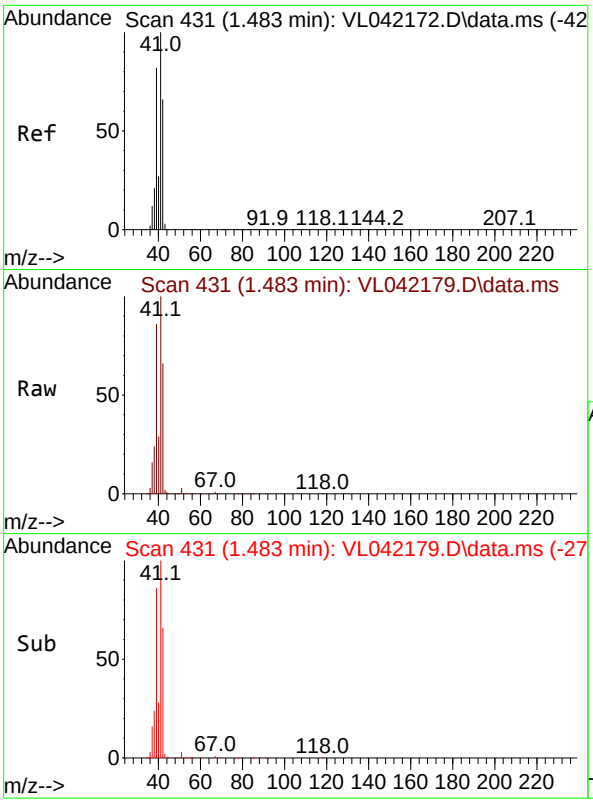




#8
Dichlorotetrafluoroethane
Concen: 9.753 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 85 Resp: 213819

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 61.9 | 52.4 | 78.6 |



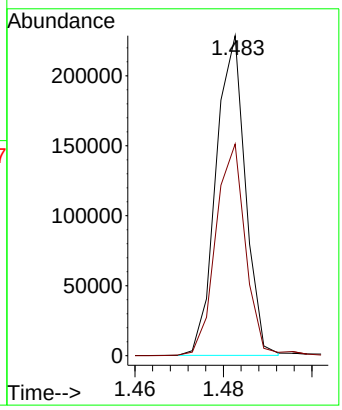


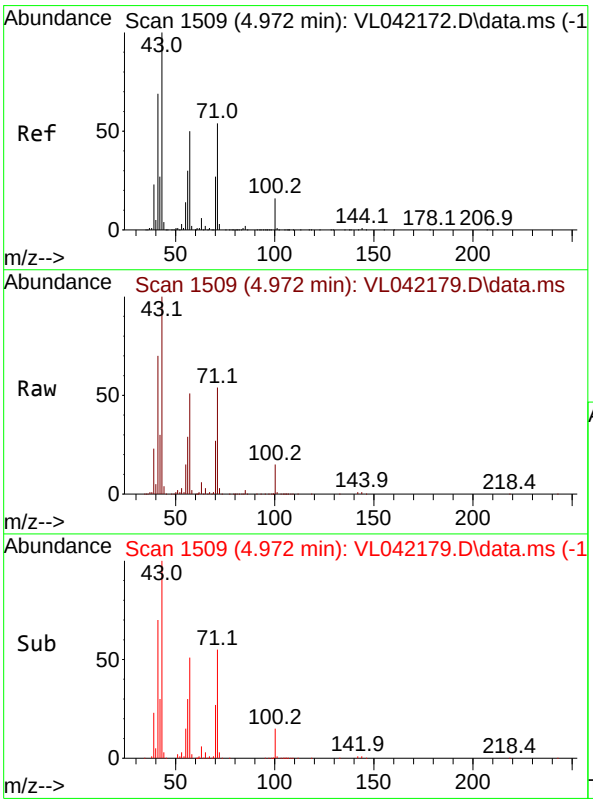

#9
Propene
Concen: 8.739 ppbv
RT: 1.483 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

Tgt Ion: 41 Resp: 105338

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 68.1 | 55.4 | 83.2 |

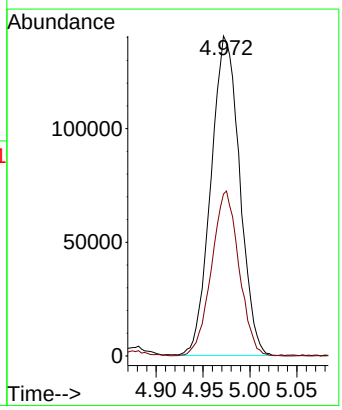


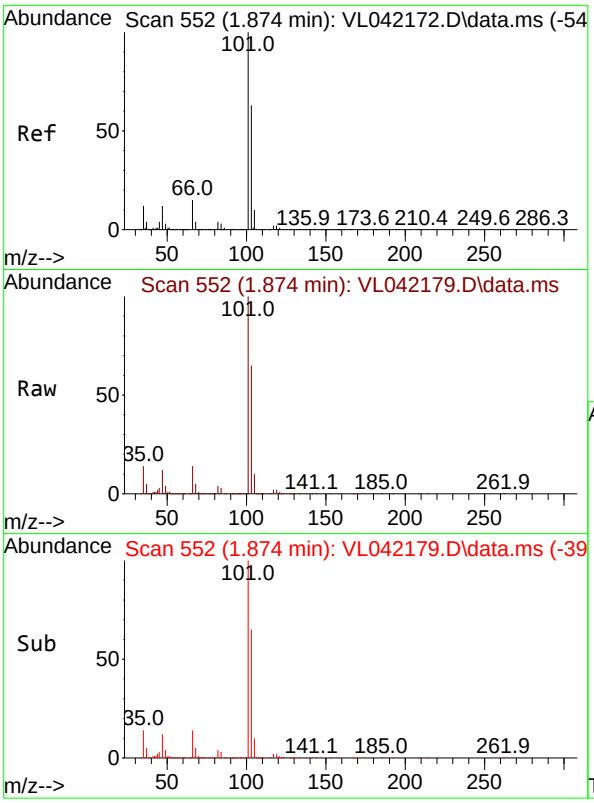




#10
Heptane
Concen: 9.318 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 43 Resp: 298768

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 49.5 | 39.4 | 59.2 |



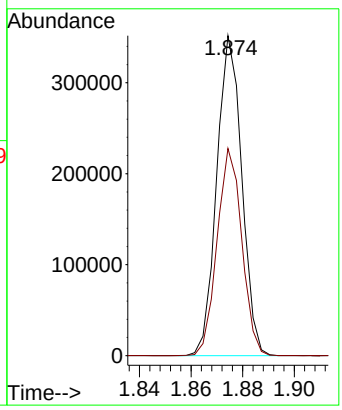


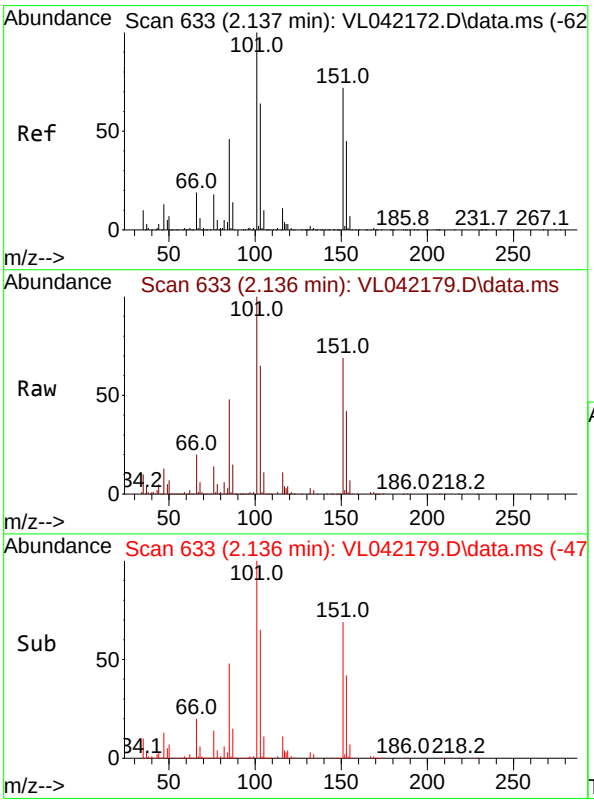

#11
Trichlorofluoromethane
Concen: 9.453 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

Tgt Ion:101 Resp: 236793

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.7 | 50.2 | 75.2 |

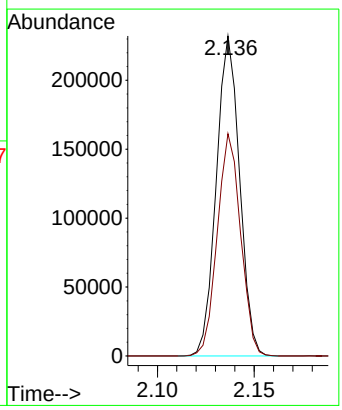


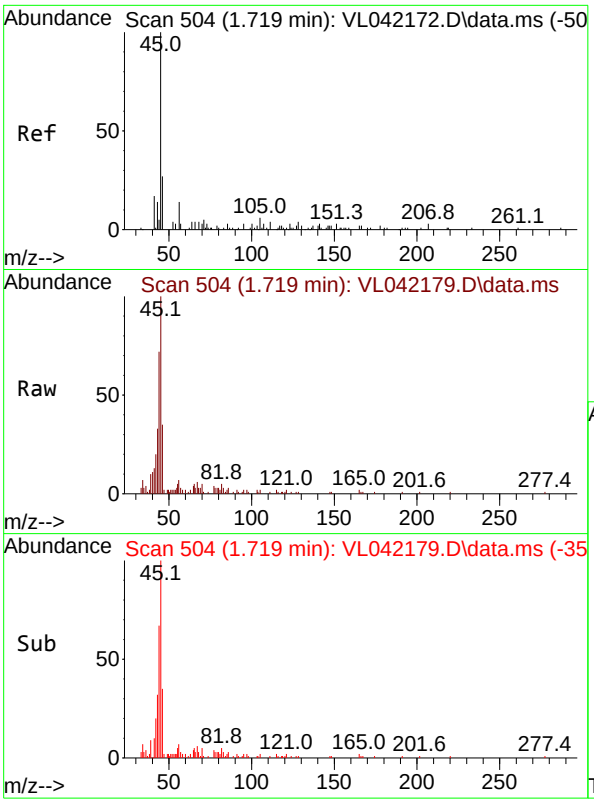




#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.421 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:101 Resp: 193965

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 69.6 | 57.1 | 85.7 |



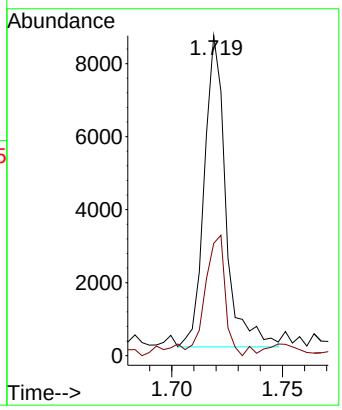


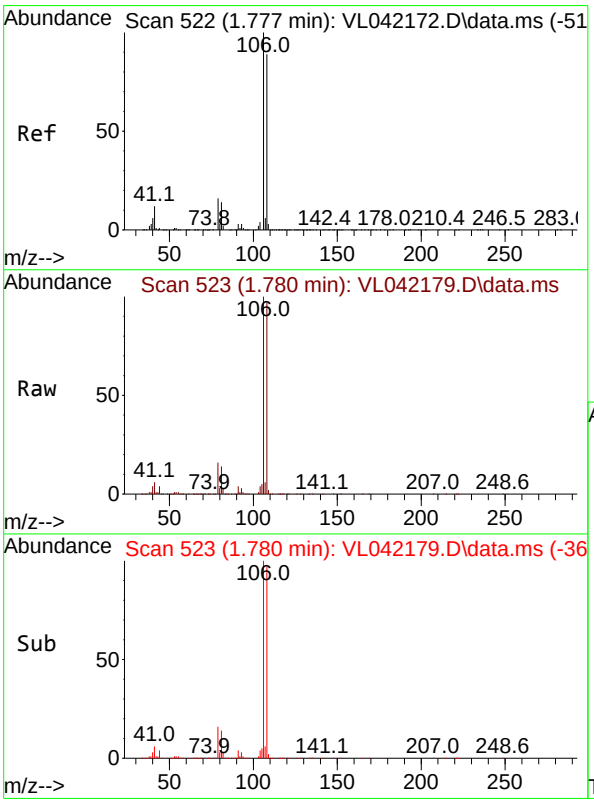

#13
Ethanol
Concen: 5.066 ppbv
RT: 1.719 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

Tgt Ion: 45 Resp: 5773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 48.5 | 20.2 | 80.8 |

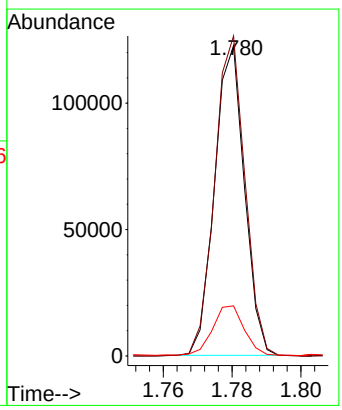


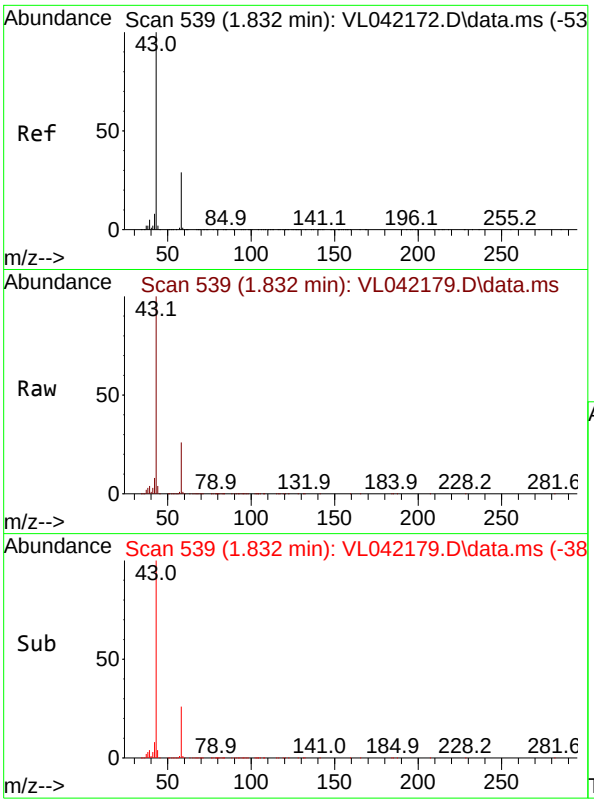




#14
Bromoethene
Concen: 9.328 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:108 Resp: 73572

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 106 | 105.0 | 86.8 | 130.2 |
| 79 | 18.8 | 15.0 | 22.6 |



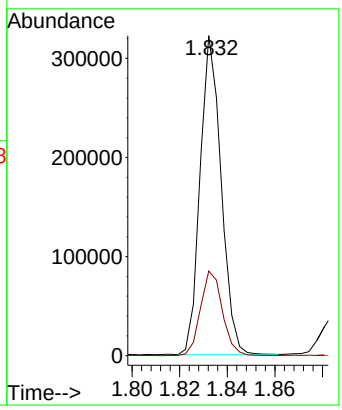


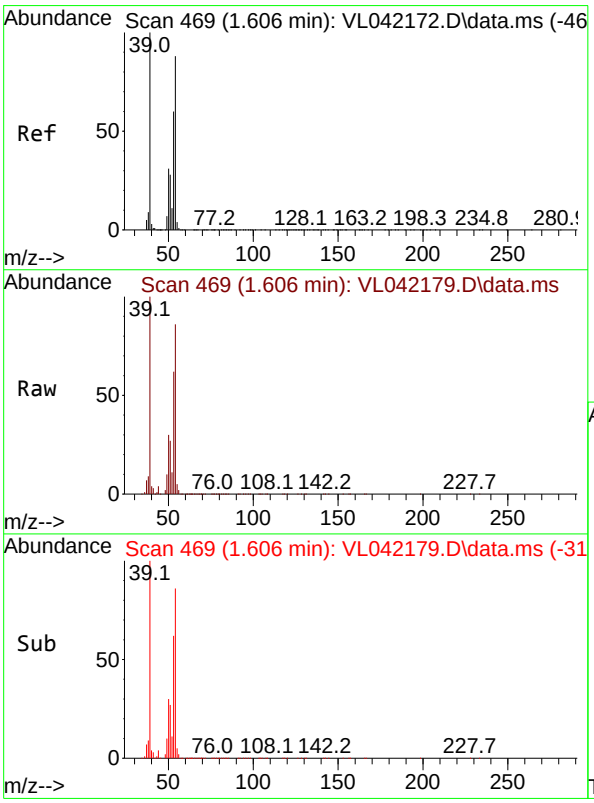

#15
Acetone
Concen: 8.132 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

Tgt Ion: 43 Resp: 198300

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 27.7 | 23.2 | 34.8 |

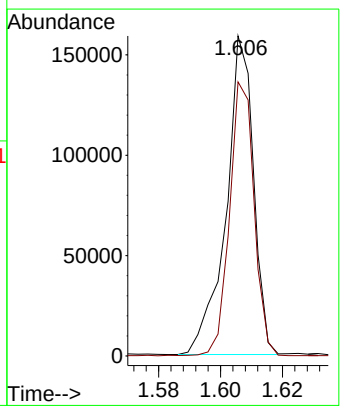


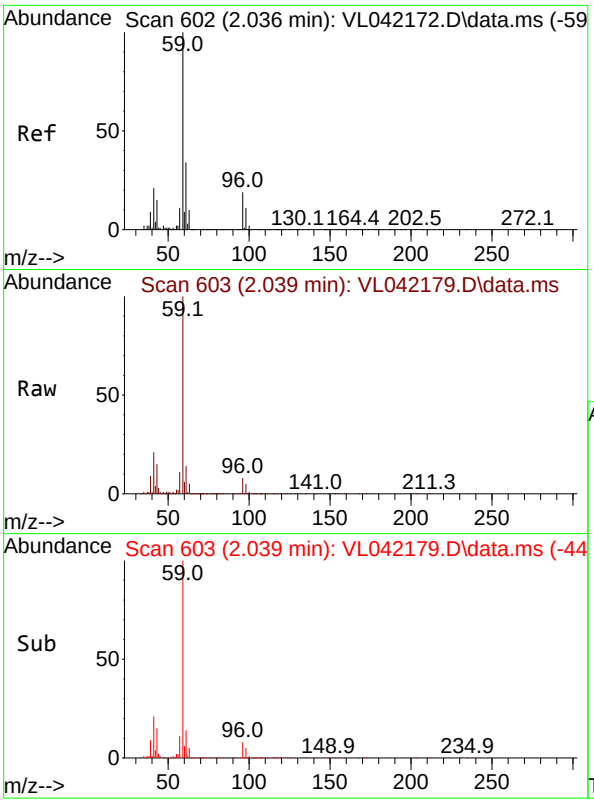




#16
1,3-Butadiene
Concen: 8.216 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 39 Resp: 97840

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 76.9 | 60.7 | 91.1 |



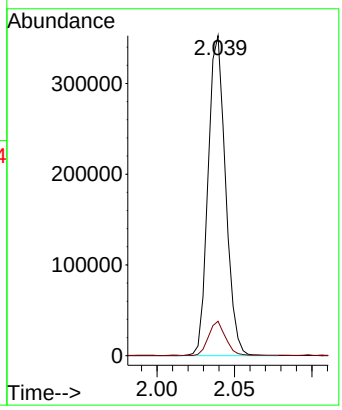


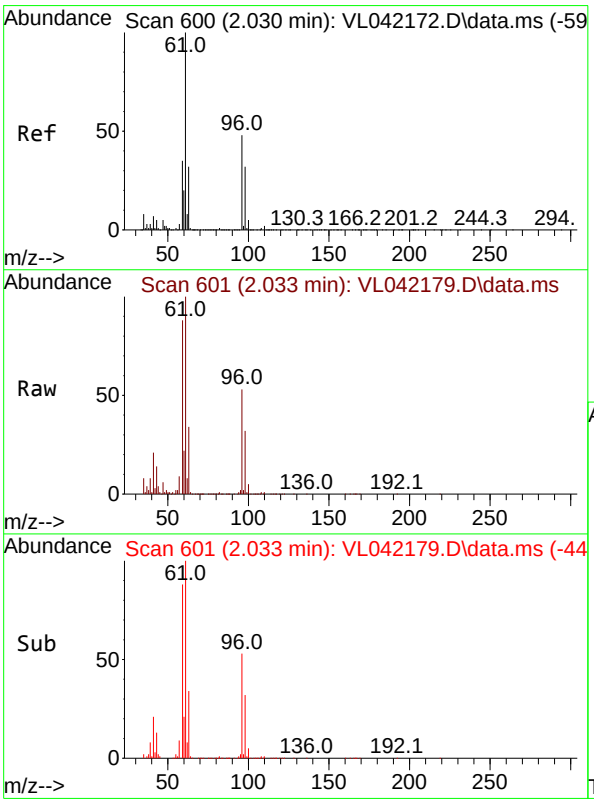

#17
tert-Butyl alcohol
Concen: 9.094 ppbv
RT: 2.039 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

Tgt Ion: 59 Resp: 276195

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.6 | 8.9 | 13.3 |

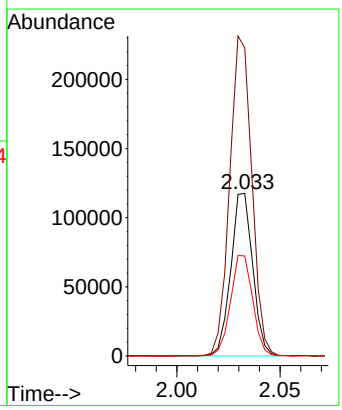


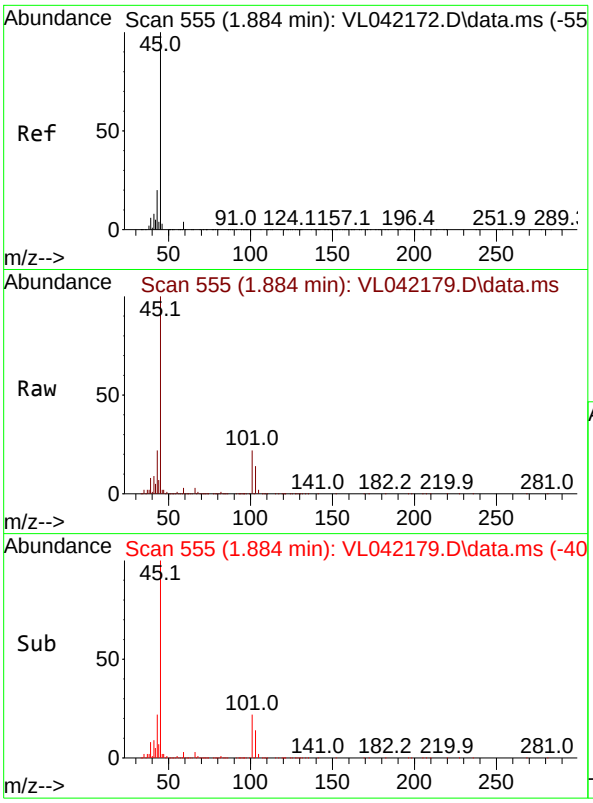




#18
1,1-Dichloroethene
Concen: 9.053 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 96 Resp: 87137

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 189.6 | 167.6 | 251.4 |
| 98 | 61.5 | 53.5 | 80.3 |



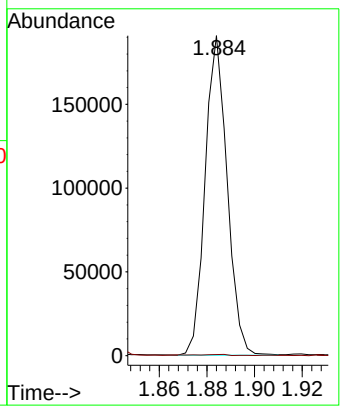


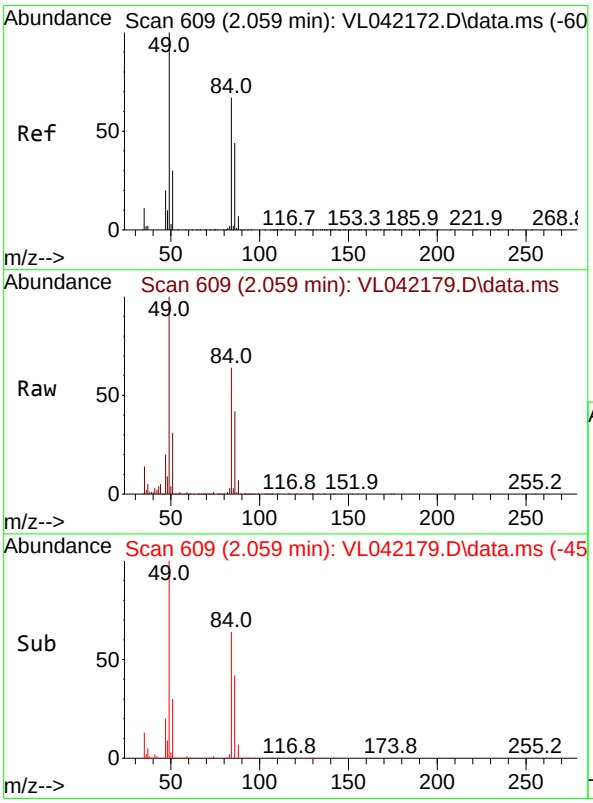

#19
Isopropyl Alcohol
Concen: 8.923 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

Tgt Ion: 45 Resp: 122768

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 44.9 | 36.9 | 55.3 |

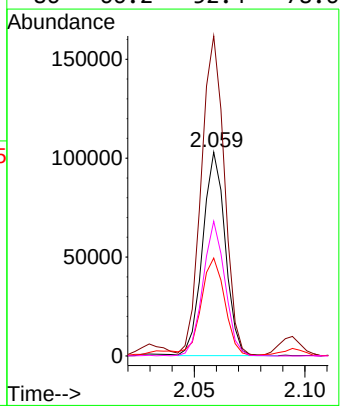


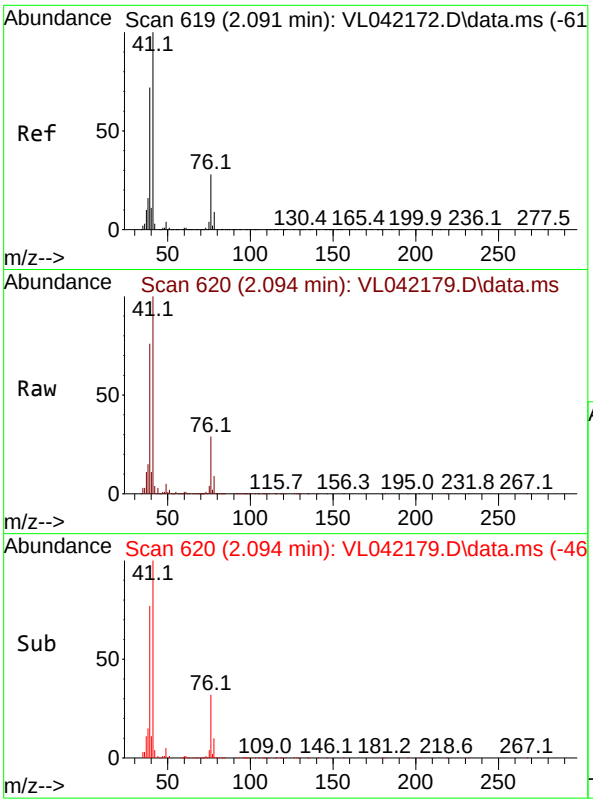




#20
Methylene Chloride
Concen: 8.018 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 84 Resp: 72813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 155.8 | 120.2 | 180.4 |
| 51 | 46.4 | 37.4 | 56.0 |
| 86 | 66.2 | 52.4 | 78.6 |



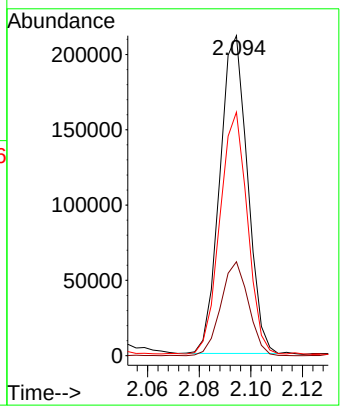


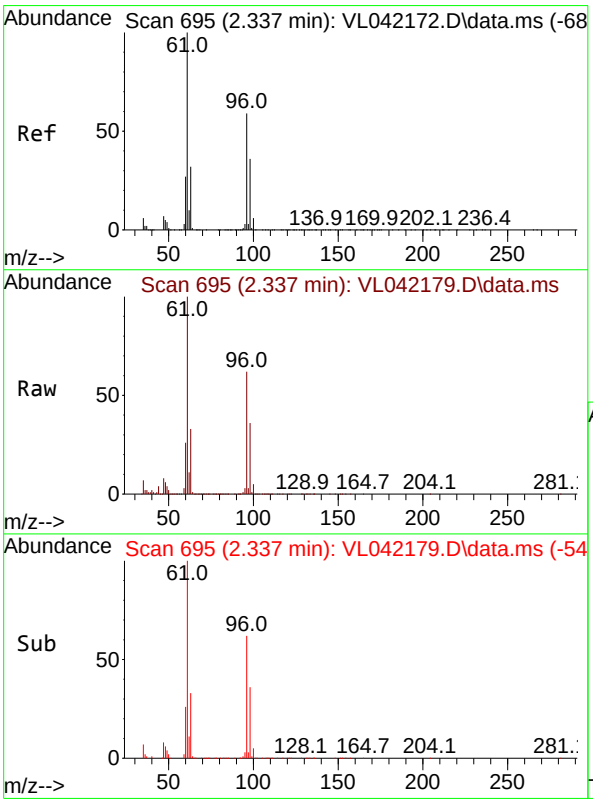

#21
Allyl Chloride
Concen: 9.154 ppbv
RT: 2.094 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

Tgt Ion: 41 Resp: 157418

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 29.6 | 24.1 | 36.1 |
| 39 | 75.5 | 61.1 | 91.7 |

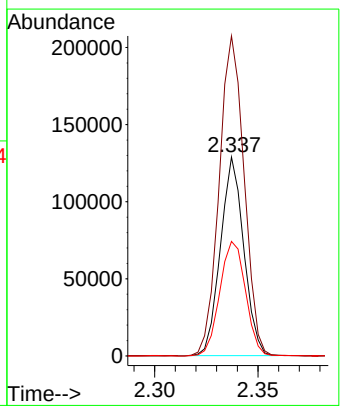


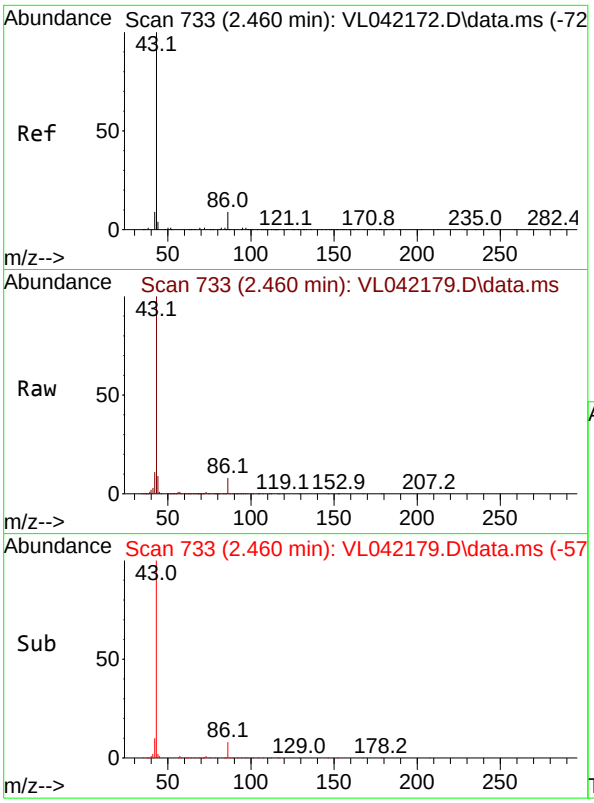




#22
trans-1,2-Dichloroethene
Concen: 9.092 ppbv
RT: 2.337 min Scan# 695
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 96 Resp: 101141

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 161.2 | 136.6 | 204.8 |
| 98 | 57.7 | 49.4 | 74.2 |



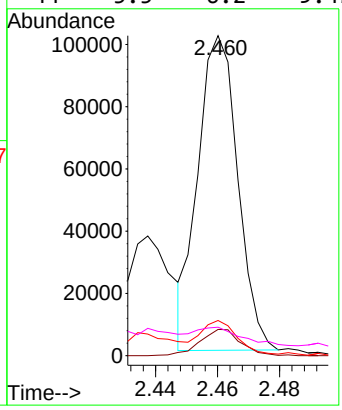


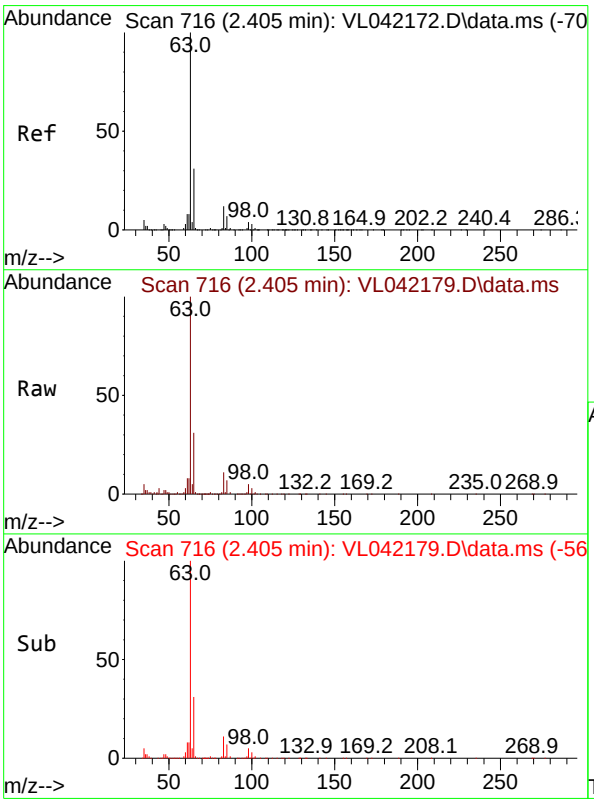

#23
Vinyl Acetate
Concen: 8.553 ppbv
RT: 2.460 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

Tgt Ion: 43 Resp: 90260

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 8.3 | 5.5 | 8.3# |
| 42 | 10.7 | 8.6 | 13.0 |
| 44 | 5.5 | 6.2 | 9.4# |

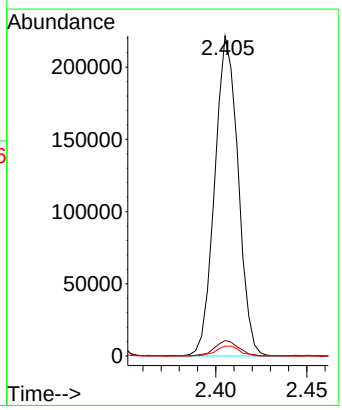


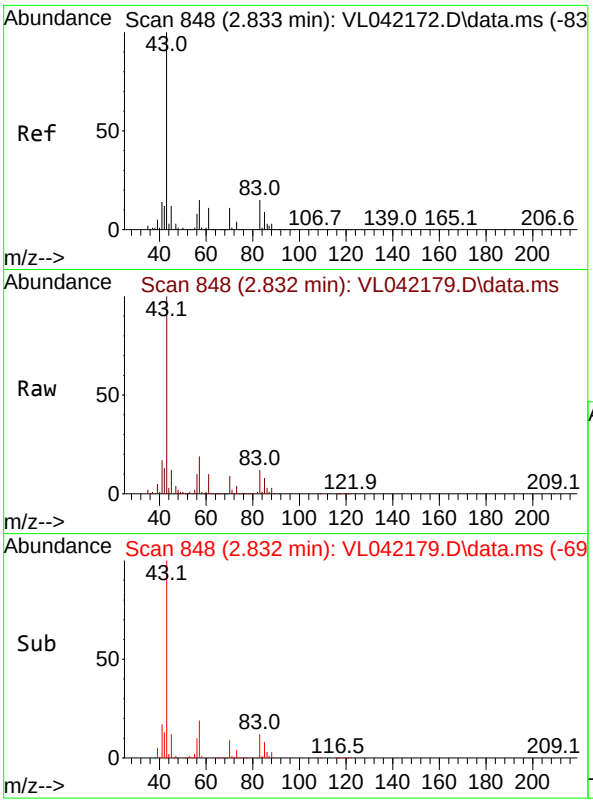




#24
1,1-Dichloroethane
Concen: 9.600 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 63 Resp: 197968

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 4.8 | 2.3 | 6.8 |
| 100 | 3.0 | 1.6 | 4.7 |



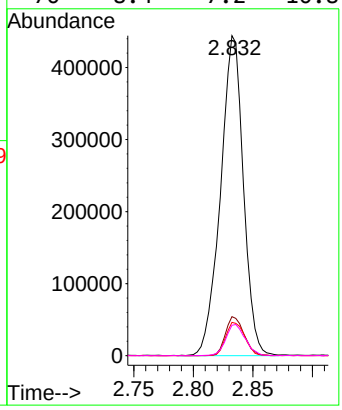


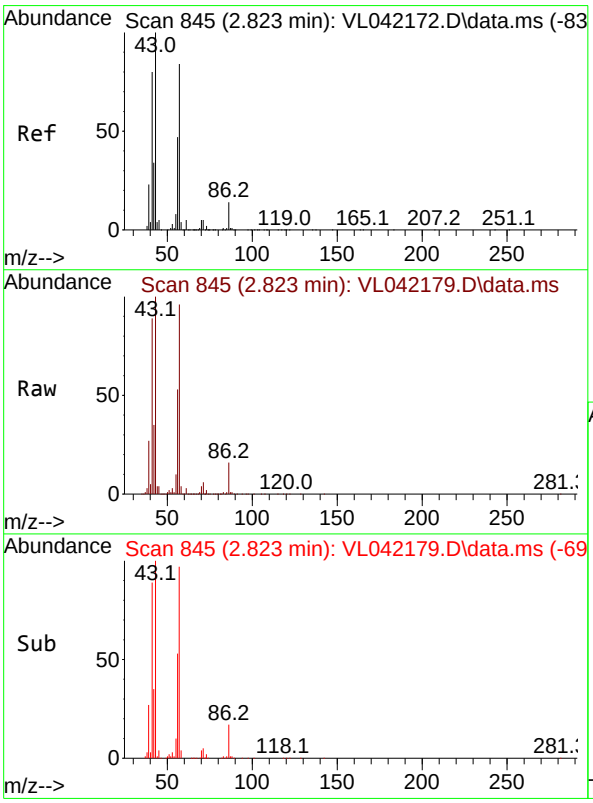

#25
Ethyl Acetate
Concen: 9.364 ppbv
RT: 2.832 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

Tgt Ion: 43 Resp: 592585

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 9.9 | 8.2 | 12.2 |
| 61 | 8.7 | 7.3 | 10.9 |
| 70 | 8.4 | 7.2 | 10.8 |

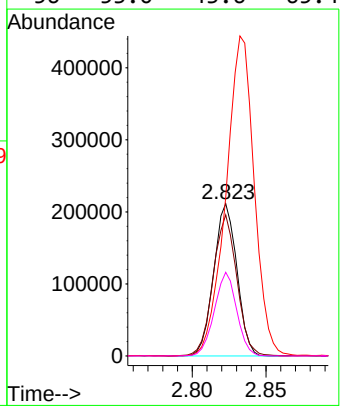


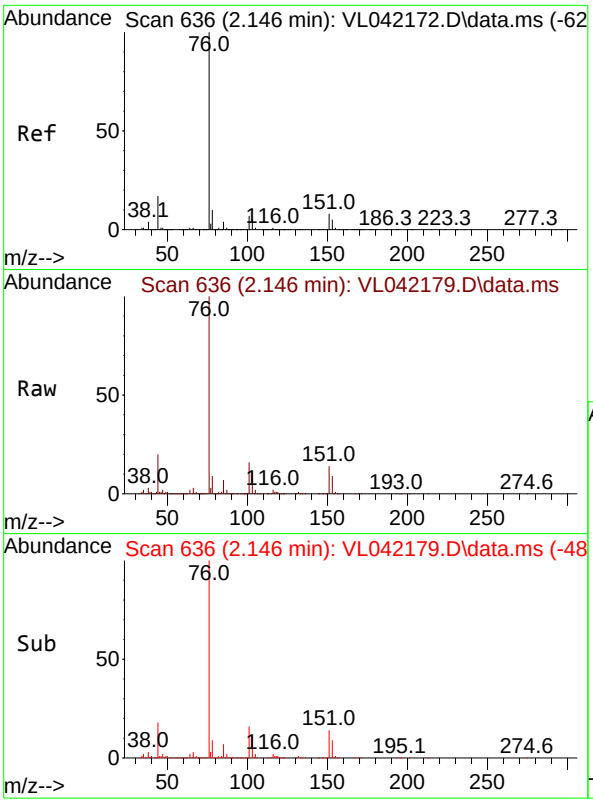




#26
Hexane
Concen: 9.455 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 57 Resp: 231125

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 95.2 | 76.6 | 114.8 |
| 43 | 256.8 | 207.8 | 311.8 |
| 56 | 53.0 | 43.6 | 65.4 |



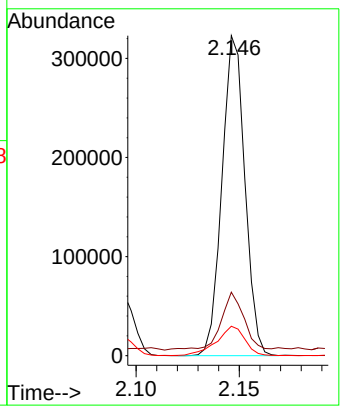


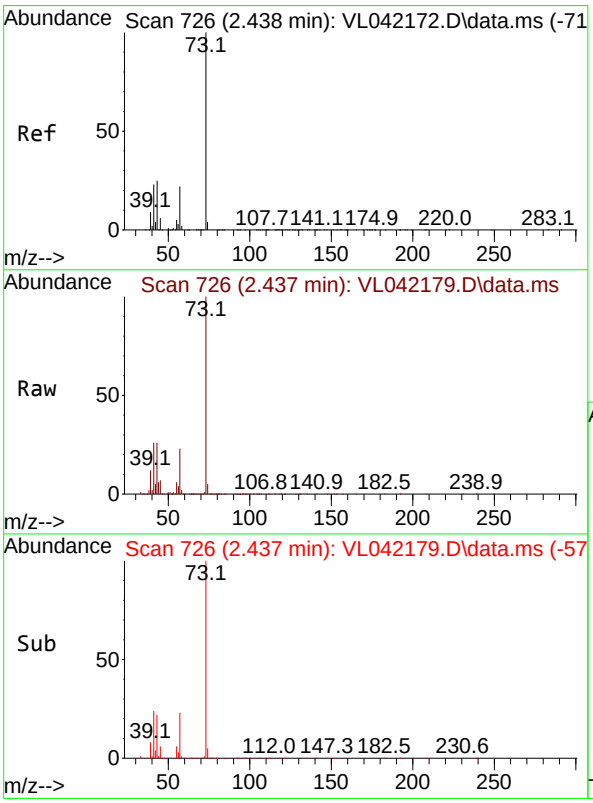

#27
Carbon Disulfide
Concen: 9.493 ppbv
RT: 2.146 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

Tgt Ion: 76 Resp: 248834

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 20.1 | 14.7 | 22.1 |
| 78 | 11.3 | 9.3 | 13.9 |

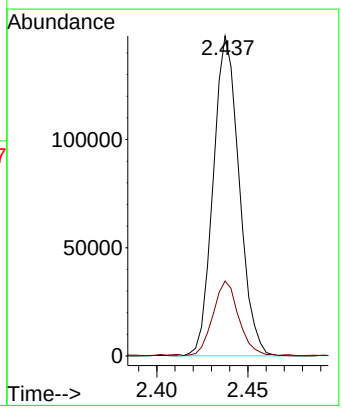


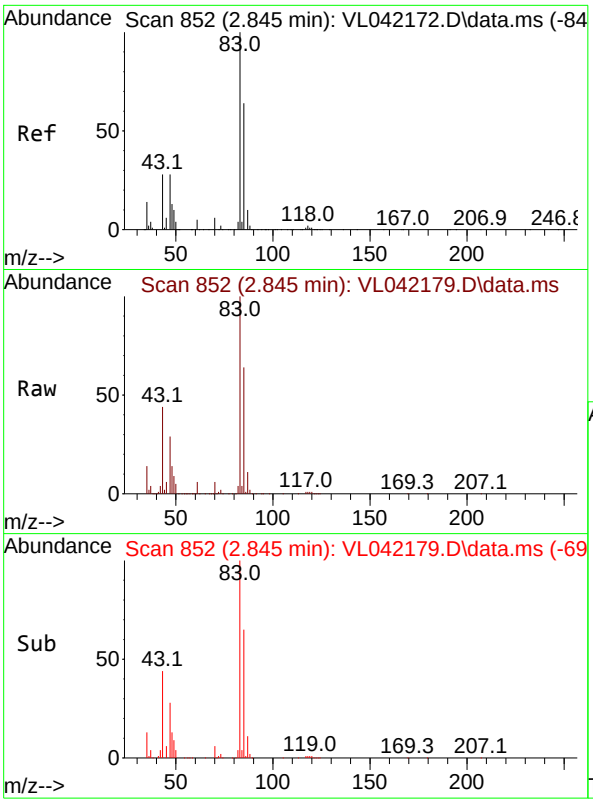




#28
Methyl tert-Butyl Ether
Concen: 9.624 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 73 Resp: 146470

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 23.3 | 20.5 | 30.7 |



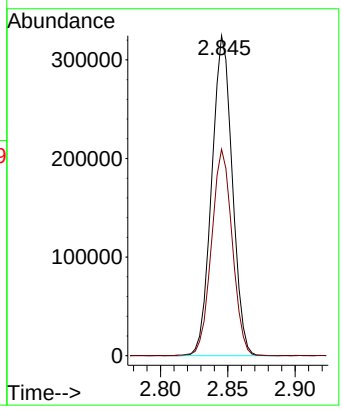


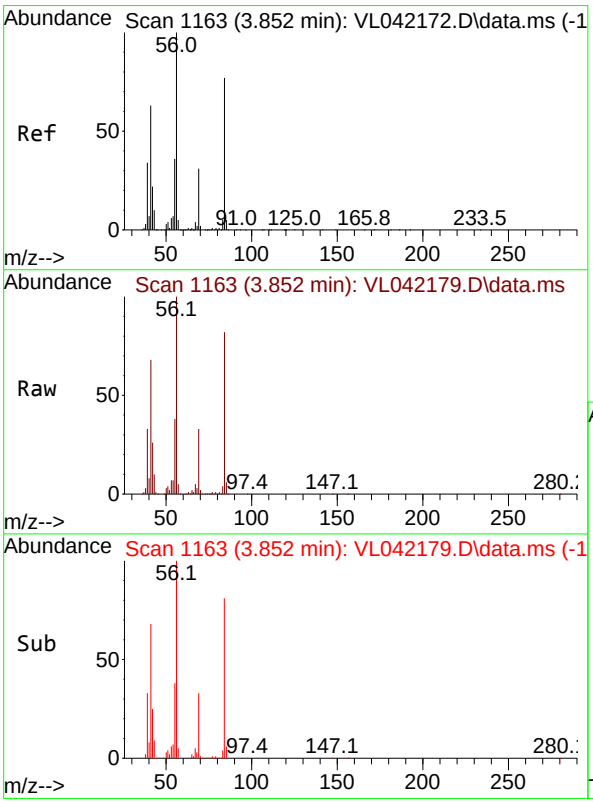

#29
Chloroform
Concen: 9.619 ppbv
RT: 2.845 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

Tgt Ion: 83 Resp: 344106

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.5 | 51.4 | 77.2 |

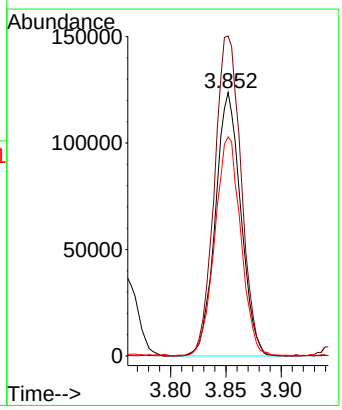


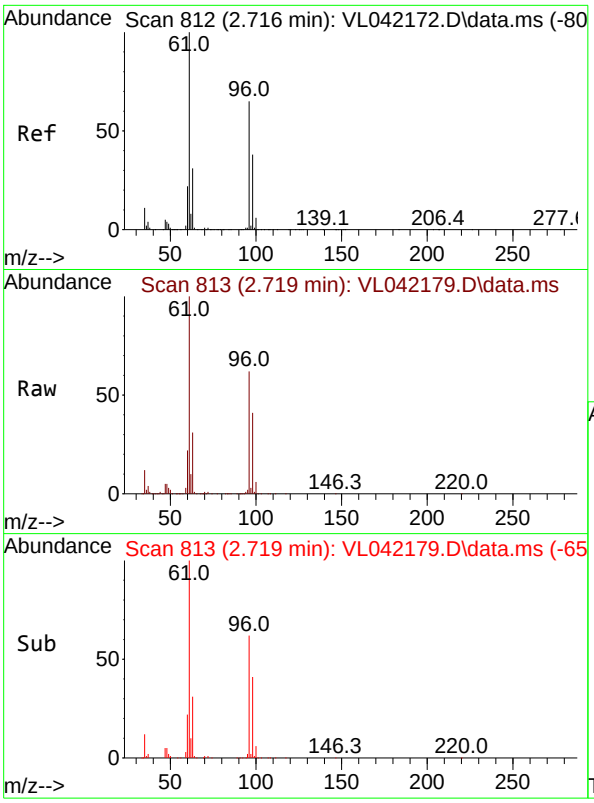




#30
Cyclohexane
Concen: 9.323 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 84 Resp: 197897

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 126.8 | 102.8 | 154.2 |
| 41 | 84.6 | 66.5 | 99.7 |



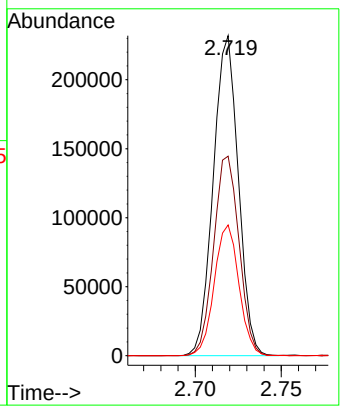


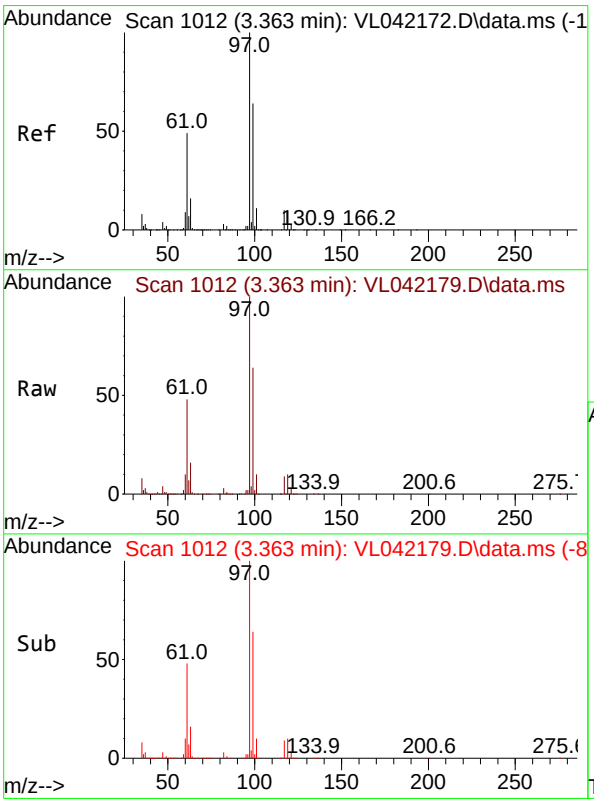

#31
cis-1,2-Dichloroethene
Concen: 9.449 ppbv
RT: 2.719 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

Tgt Ion: 61 Resp: 234487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 62.3 | 51.8 | 77.8 |
| 98 | 40.9 | 30.6 | 46.0 |

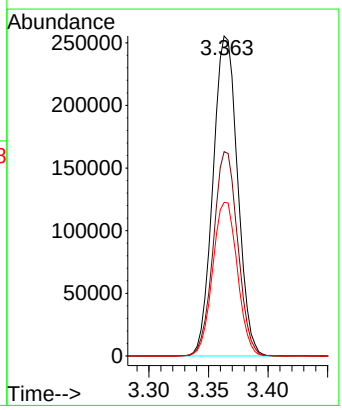


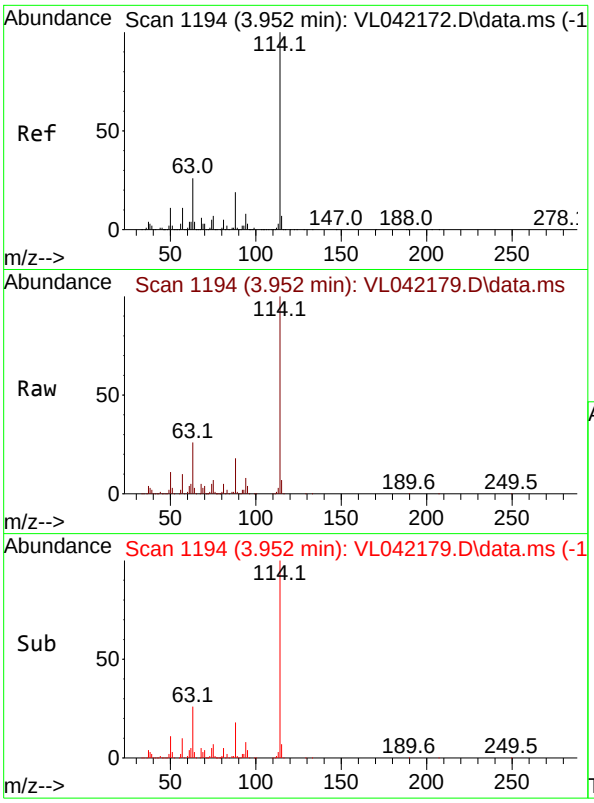




#32
1,1,1-Trichloroethane
Concen: 8.921 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 97 Resp: 365364

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.4 | 51.5 | 77.3 |
| 61 | 48.4 | 38.7 | 58.1 |



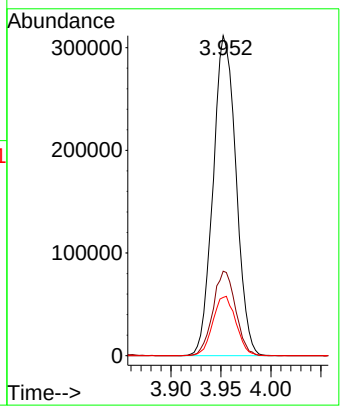


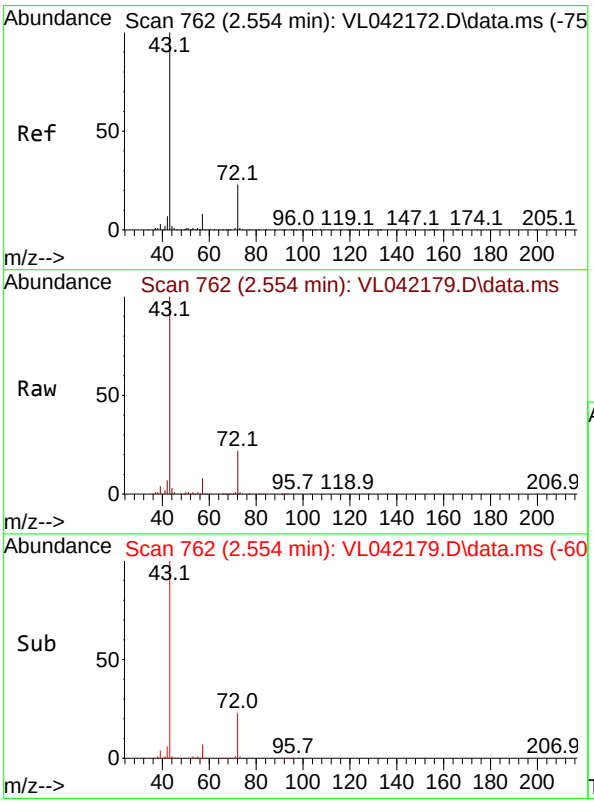

#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

Tgt Ion:114 Resp: 498105

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 26.1 | 20.7 | 31.1 |
| 88 | 18.7 | 15.0 | 22.4 |

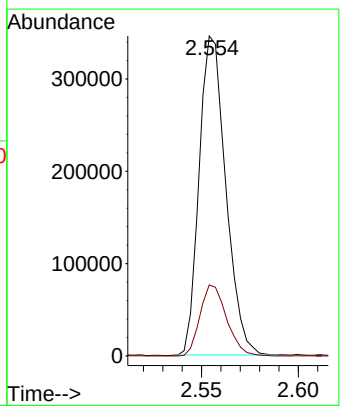


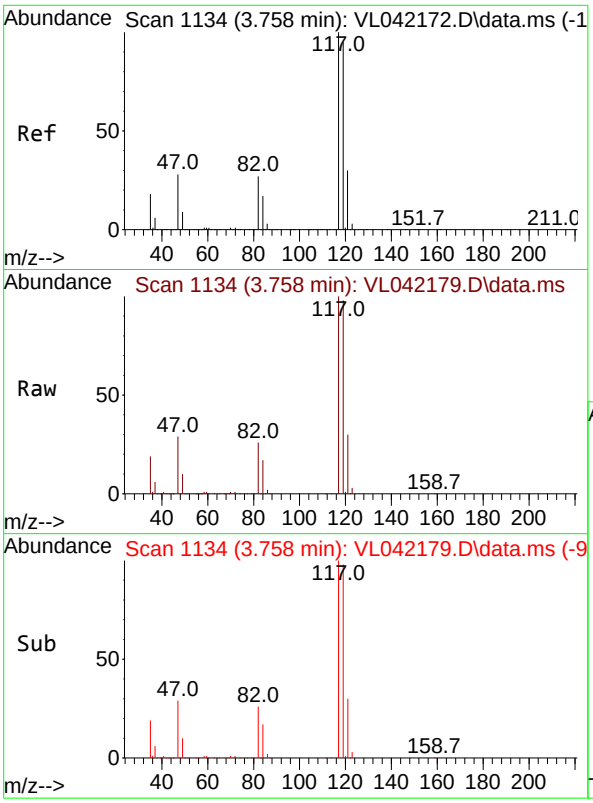




#34
2-Butanone
Concen: 9.171 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 43 Resp: 331236

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 22.2 | 18.2 | 27.2 |



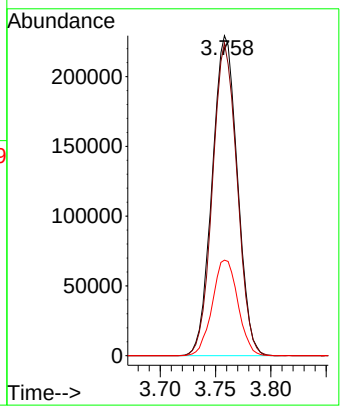


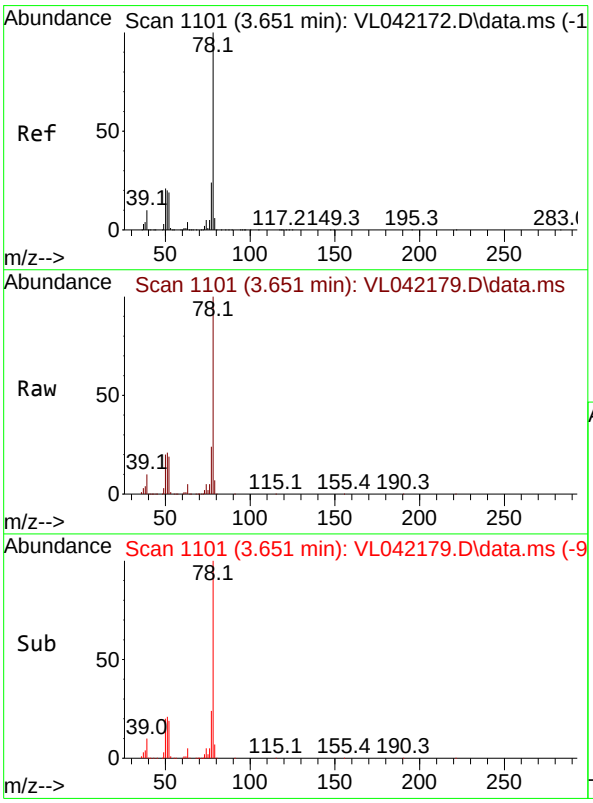

#35
Carbon Tetrachloride
Concen: 9.339 ppbv
RT: 3.758 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

Tgt Ion:117 Resp: 363392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 97.7 | 76.2 | 114.2 |
| 121 | 29.9 | 24.2 | 36.4 |

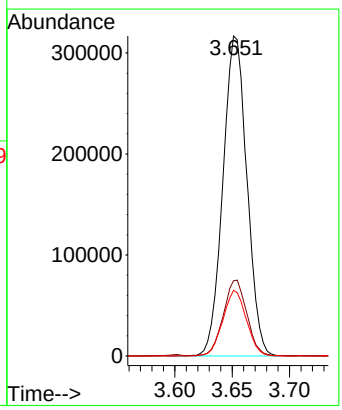


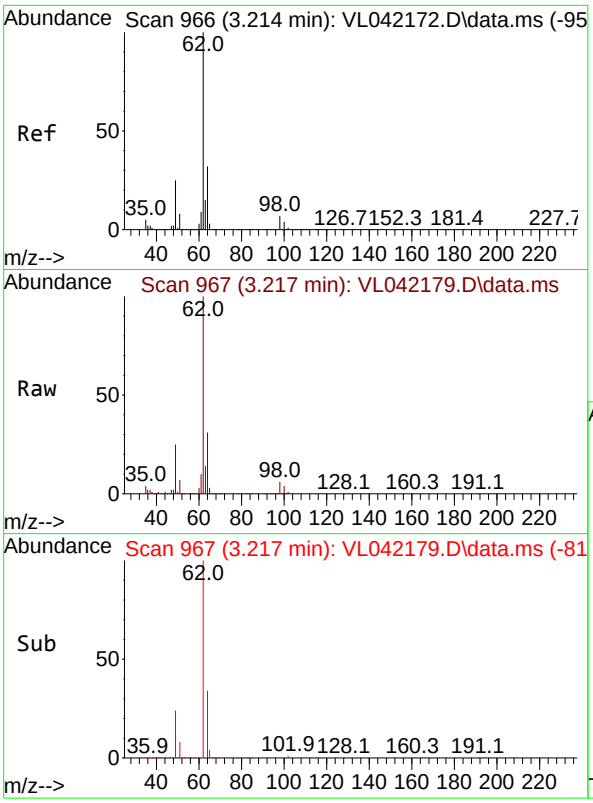




#36
Benzene
Concen: 9.341 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 78 Resp: 461261

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.5 | 19.1 | 28.7 |
| 50 | 20.4 | 16.6 | 24.8 |



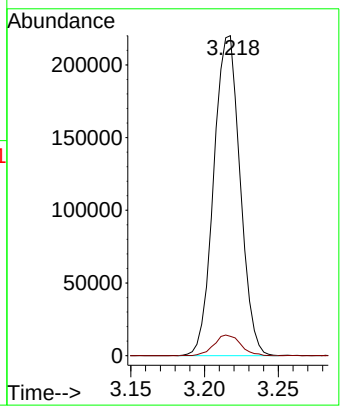


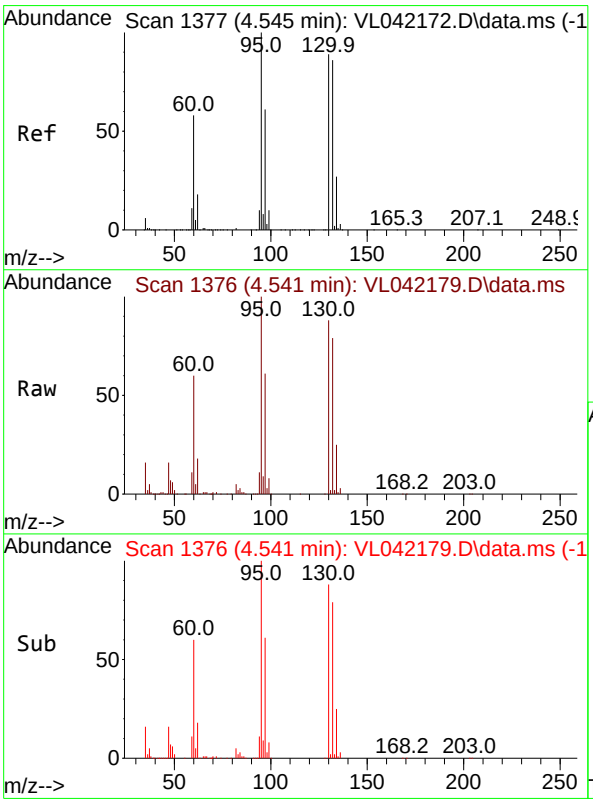

#37
1,2-Dichloroethane
Concen: 9.676 ppbv
RT: 3.217 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

Tgt Ion: 62 Resp: 273559

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 6.6 | 5.4 | 8.2 |

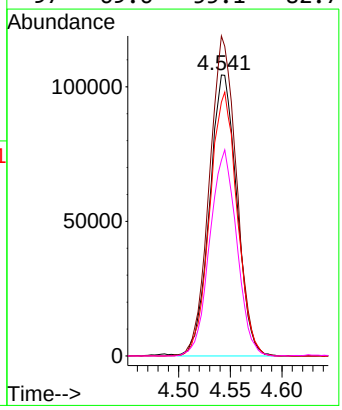


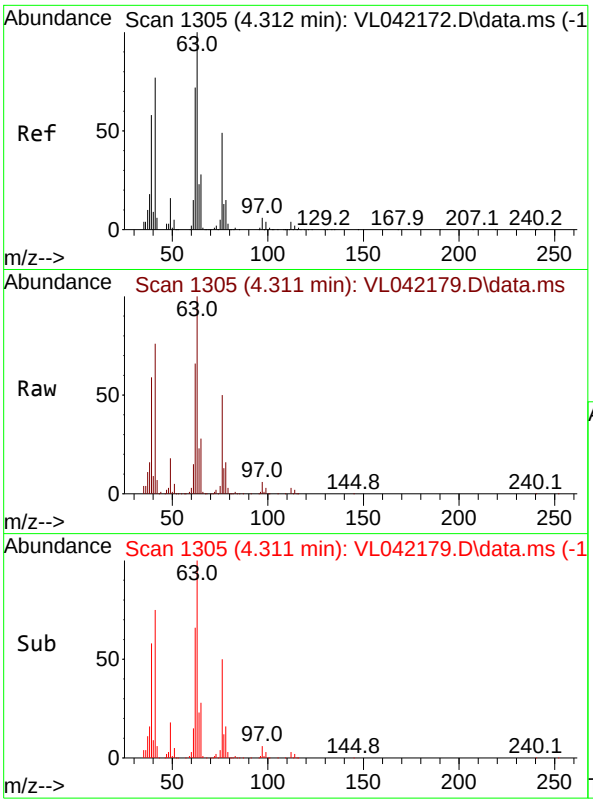




#38
Trichloroethene
Concen: 9.306 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. -0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:130 Resp: 191746

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 113.9 | 89.8 | 134.8 |
| 132 | 90.3 | 77.4 | 116.2 |
| 97 | 69.6 | 55.1 | 82.7 |



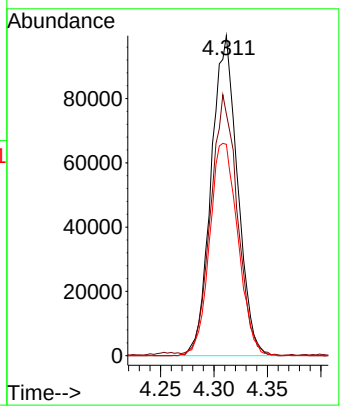


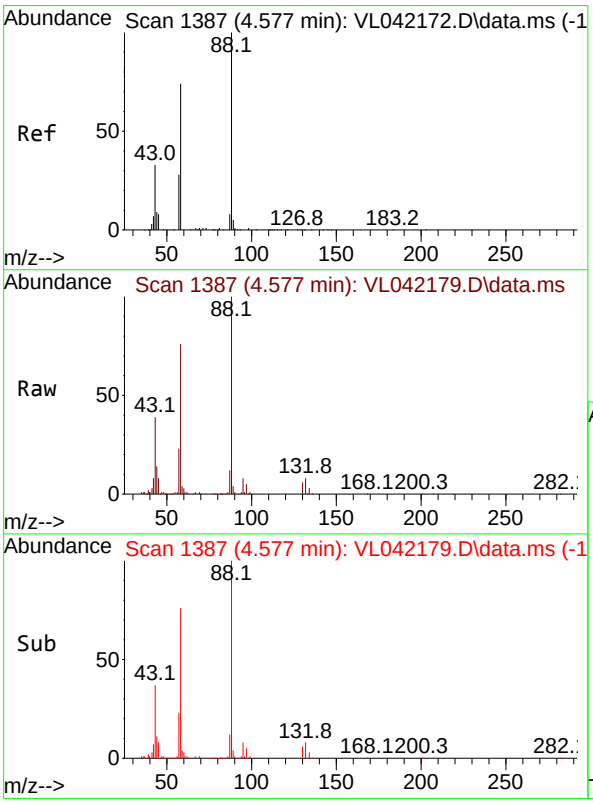

#39
1,2-Dichloropropane
Concen: 9.500 ppbv
RT: 4.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

Tgt Ion: 63 Resp: 170839

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 75.3 | 61.7 | 92.5 |
| 62 | 66.0 | 57.6 | 86.4 |

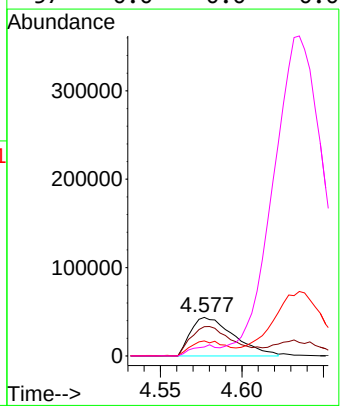


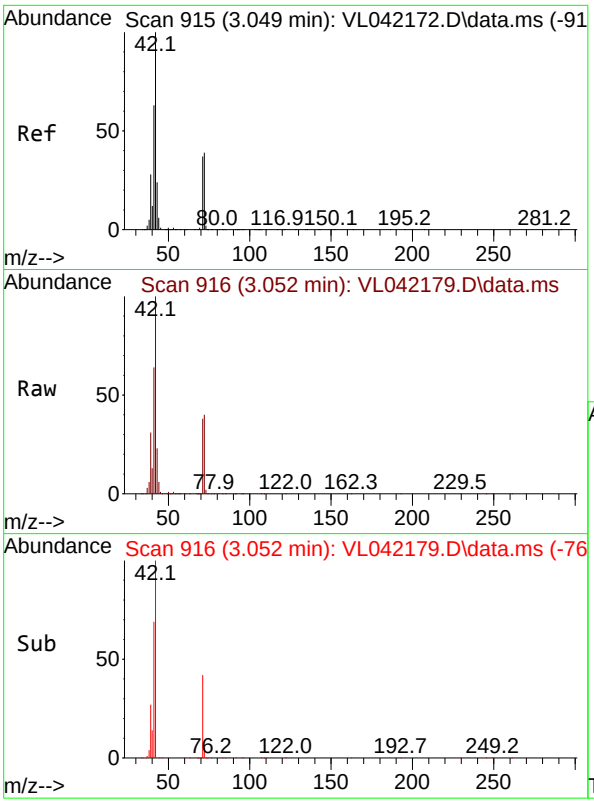




#40
1,4-Dioxane
Concen: 8.443 ppbv
RT: 4.577 min Scan# 1387
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 88 Resp: 80592

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 76.2 | 62.7 | 94.1 |
| 43 | 31.4 | 23.0 | 34.4 |
| 57 | 0.0 | 0.0 | 0.0 |



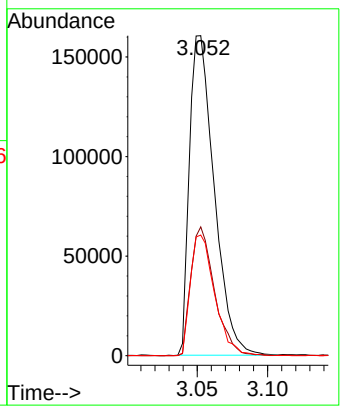


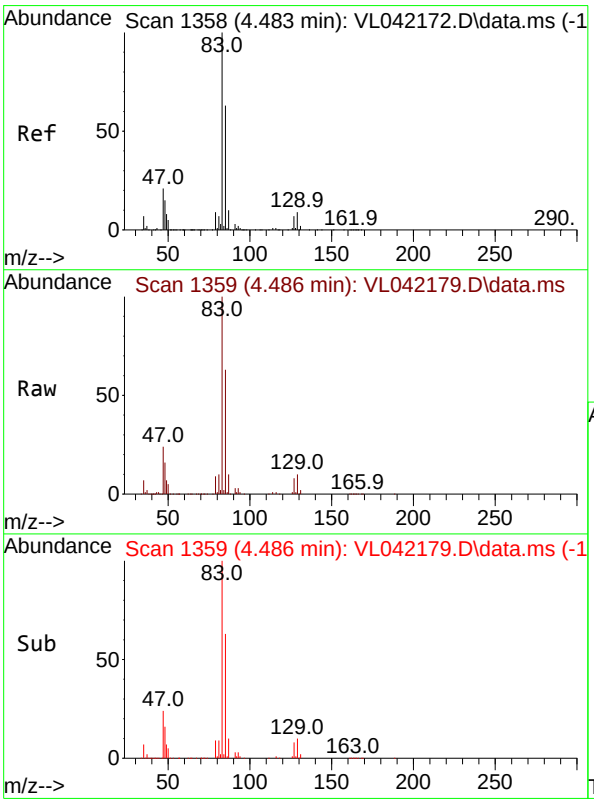

#41
Tetrahydrofuran
Concen: 9.431 ppbv
RT: 3.052 min Scan# 91
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

Tgt Ion: 42 Resp: 196163

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 38.9 | 31.4 | 47.0 |
| 71 | 37.2 | 30.2 | 45.4 |

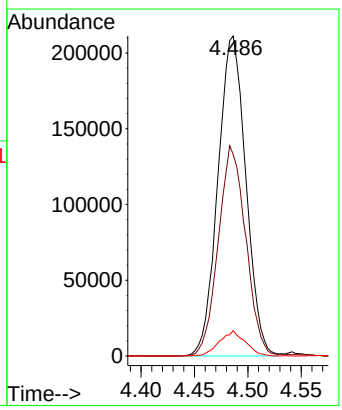


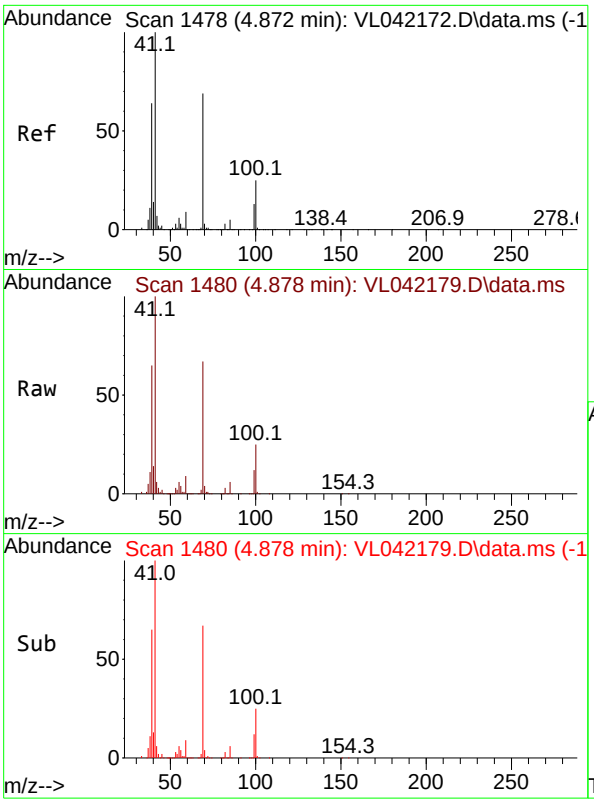




#42
Bromodichloromethane
Concen: 9.853 ppbv
RT: 4.486 min Scan# 1359
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 83 Resp: 384006

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.0 | 50.5 | 75.7 |
| 127 | 7.9 | 5.9 | 8.9 |



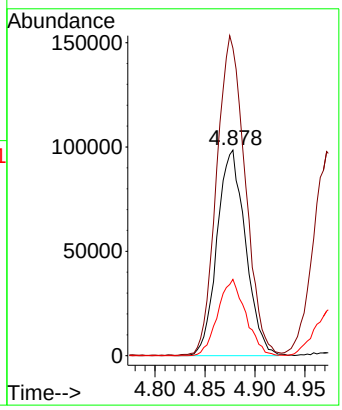


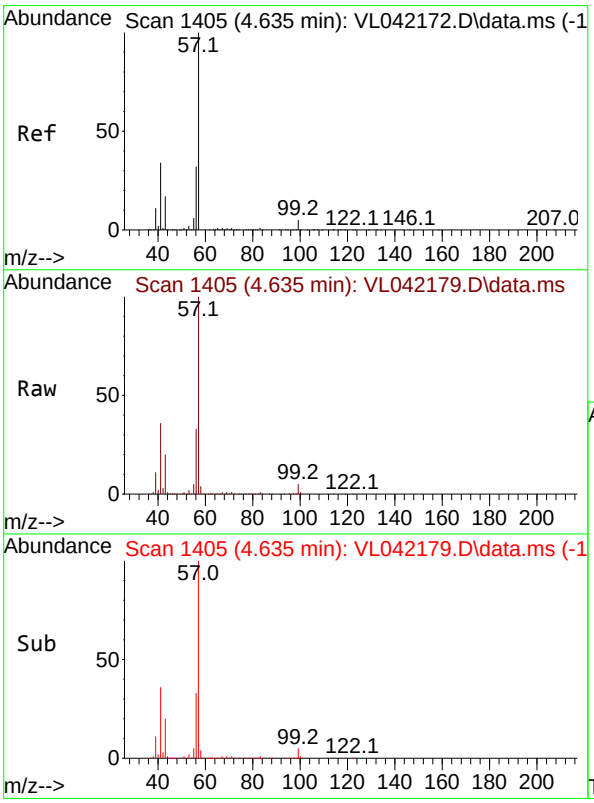

#43
Methyl Methacrylate
Concen: 9.344 ppbv
RT: 4.878 min Scan# 14
Delta R.T. 0.006 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

Tgt Ion: 69 Resp: 195339

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 156.4 | 123.8 | 185.6 |
| 100 | 36.4 | 28.4 | 42.6 |

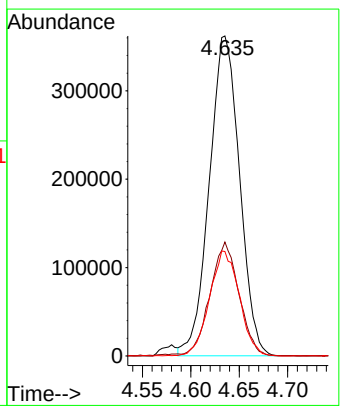


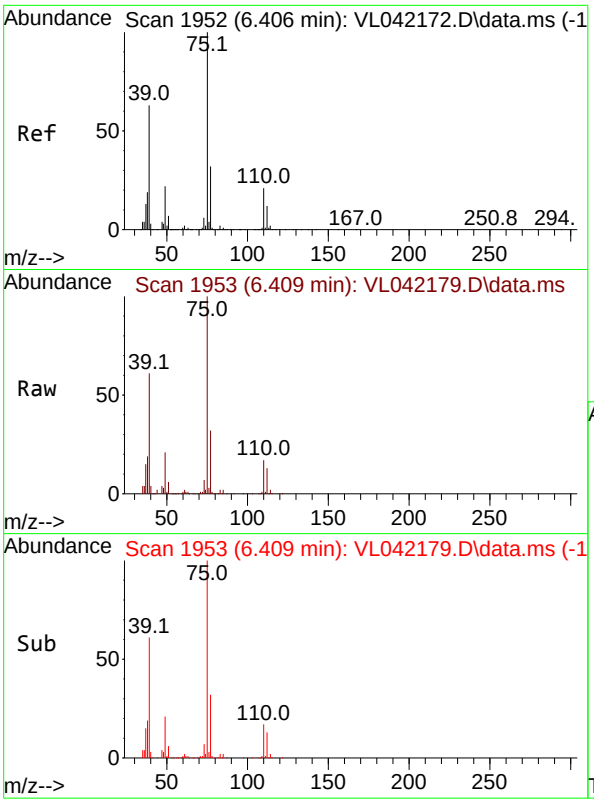




#44
2,2,4-Trimethylpentane
Concen: 9.436 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 57 Resp: 787400

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 34.3 | 26.8 | 40.2 |
| 56 | 32.5 | 25.6 | 38.4 |



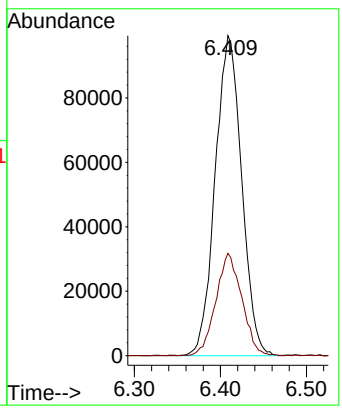


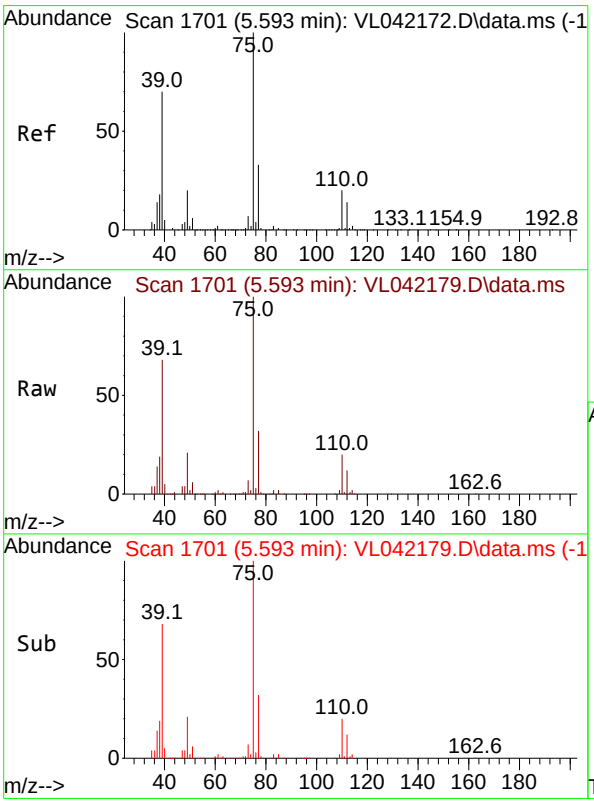

#45
t-1,3-Dichloropropene
Concen: 9.467 ppbv
RT: 6.409 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

Tgt Ion: 75 Resp: 212335

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.0 | 26.0 | 39.0 |

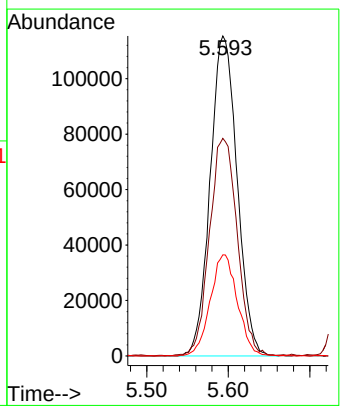


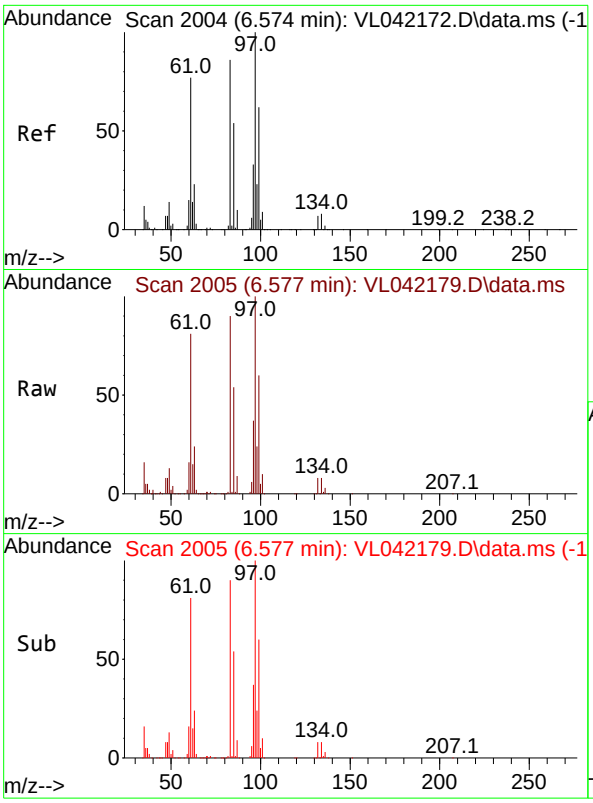




#46
cis-1,3-Dichloropropene
Concen: 9.643 ppbv
RT: 5.593 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 75 Resp: 265101

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 39 | 67.8 | 55.8 | 83.6 |
| 77 | 31.6 | 26.0 | 39.0 |



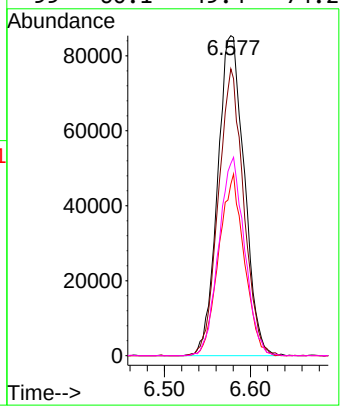


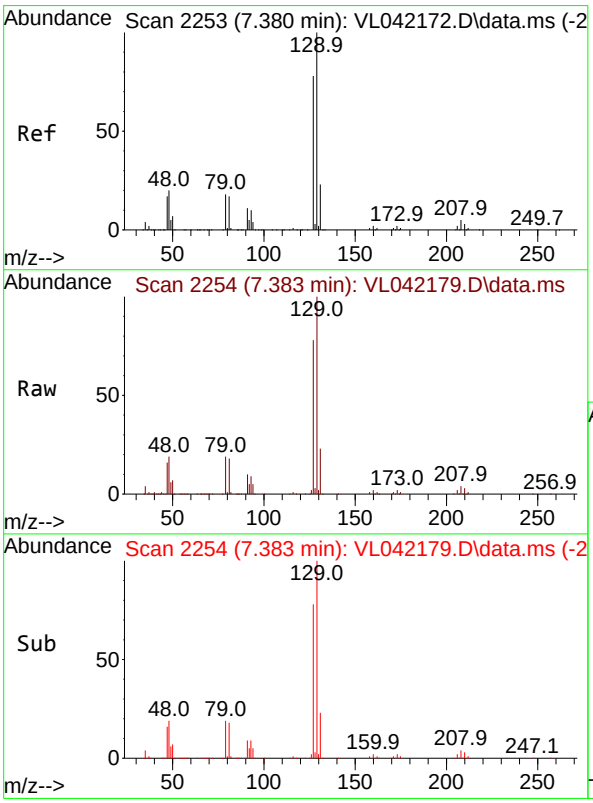

#47
1,1,2-Trichloroethane
Concen: 9.638 ppbv
RT: 6.577 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

Tgt Ion: 97 Resp: 183228

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 89.7 | 69.2 | 103.8 |
| 85 | 53.6 | 43.1 | 64.7 |
| 99 | 60.1 | 49.4 | 74.2 |

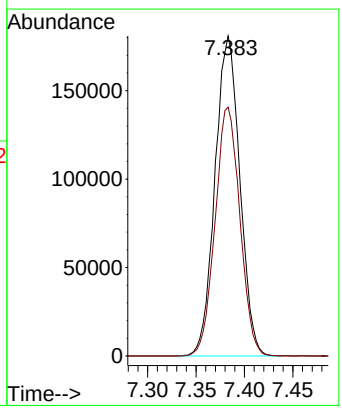


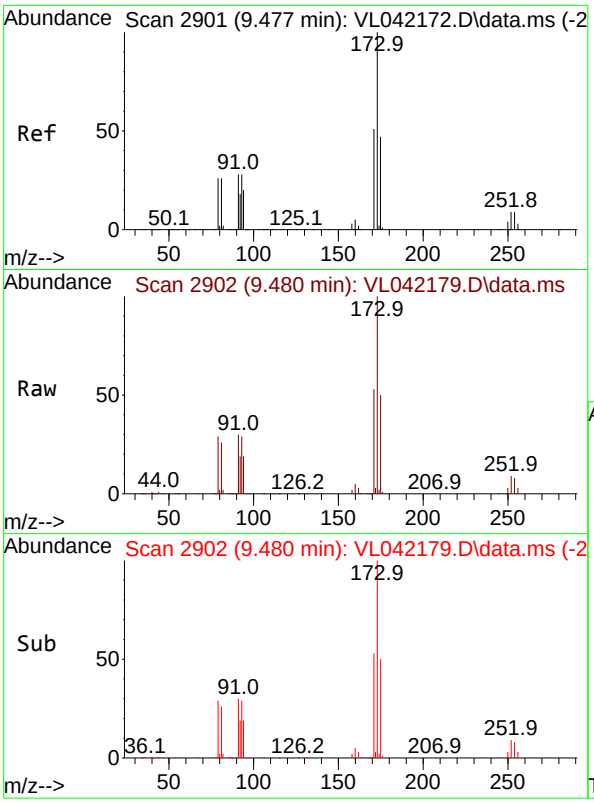




#48
Dibromochloromethane
Concen: 10.018 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:129 Resp: 322766

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.7 | 39.1 | 117.2 |



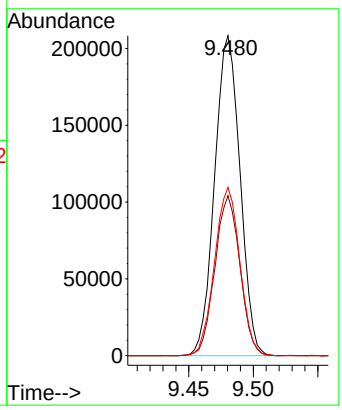


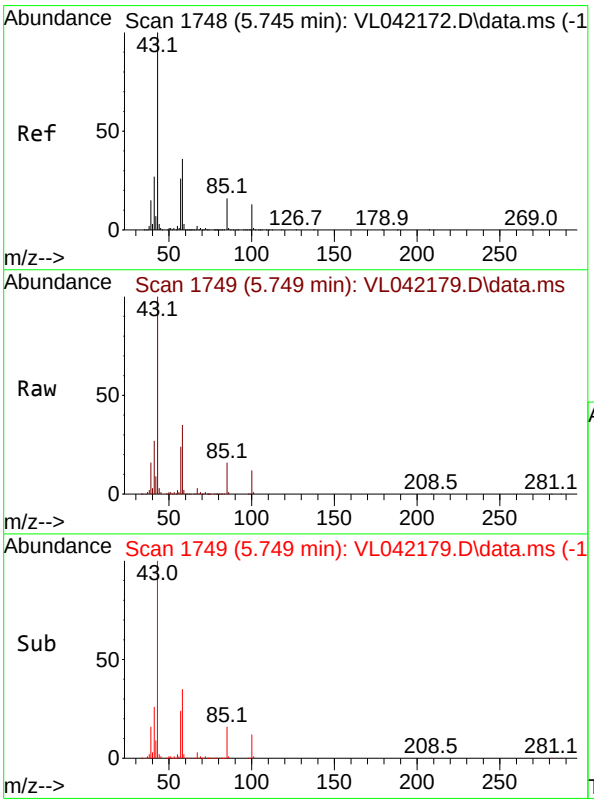

#49
Bromoform
Concen: 9.858 ppbv
RT: 9.480 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

Tgt Ion:173 Resp: 285149

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.2 | 38.6 | 57.8 |
| 171 | 52.4 | 41.8 | 62.6 |

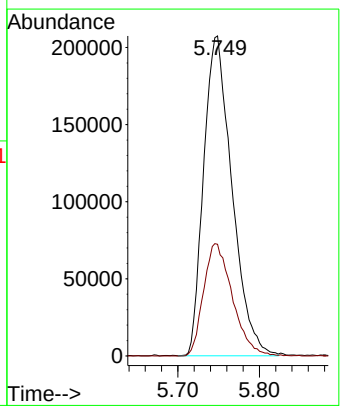


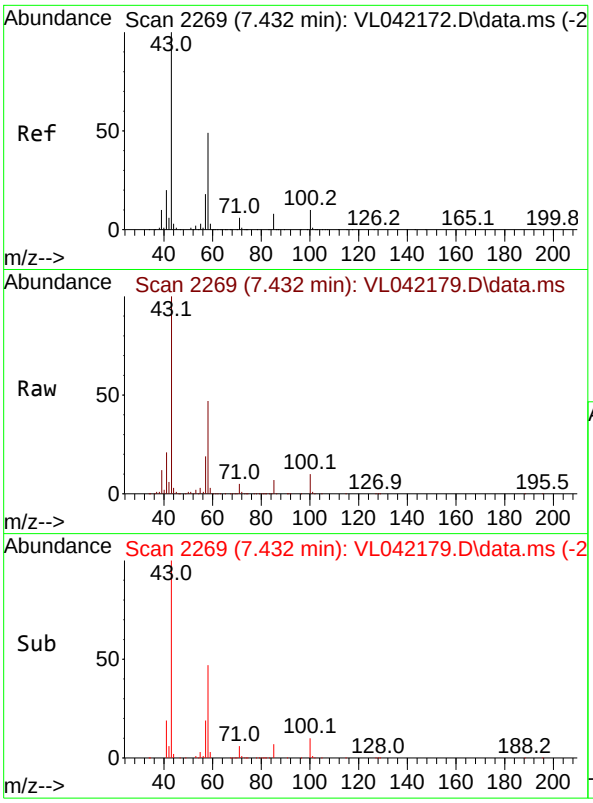




#50
4-Methyl-2-Pentanone
Concen: 8.749 ppbv
RT: 5.749 min Scan# 1749
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 43 Resp: 500791

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 35.8 | 29.0 | 43.6 |



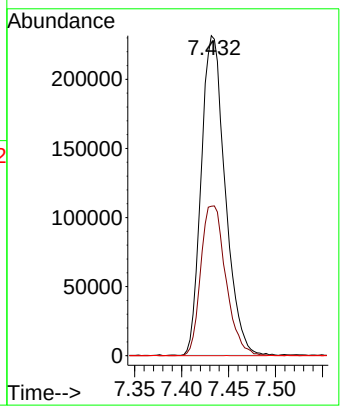


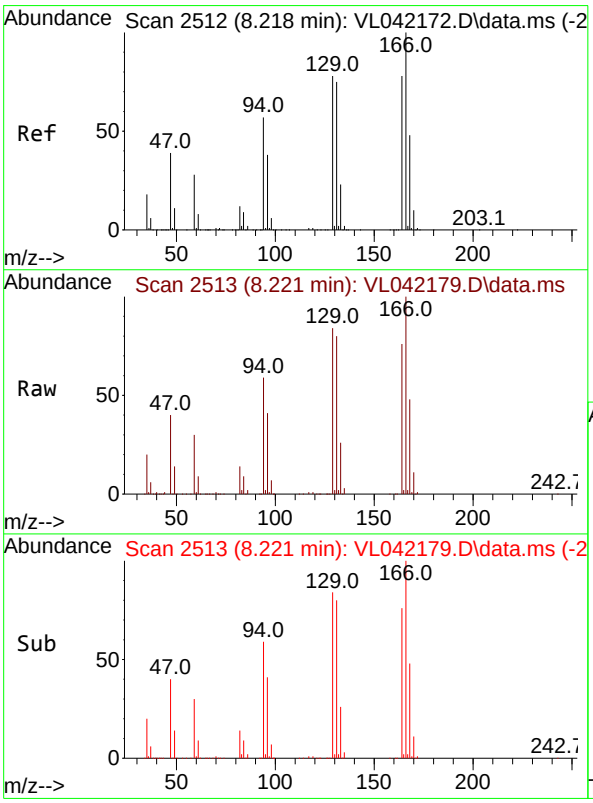

#51
2-Hexanone
Concen: 8.741 ppbv
RT: 7.432 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

Tgt Ion: 43 Resp: 410889

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 48.9 | 39.7 | 59.5 |
| 98 | 0.0 | 0.1 | 0.1# |

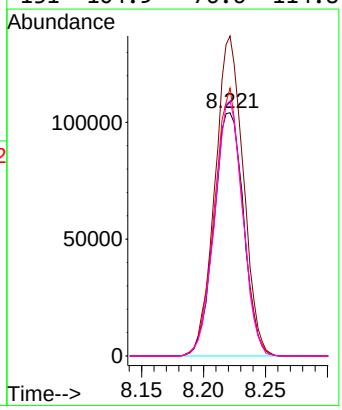


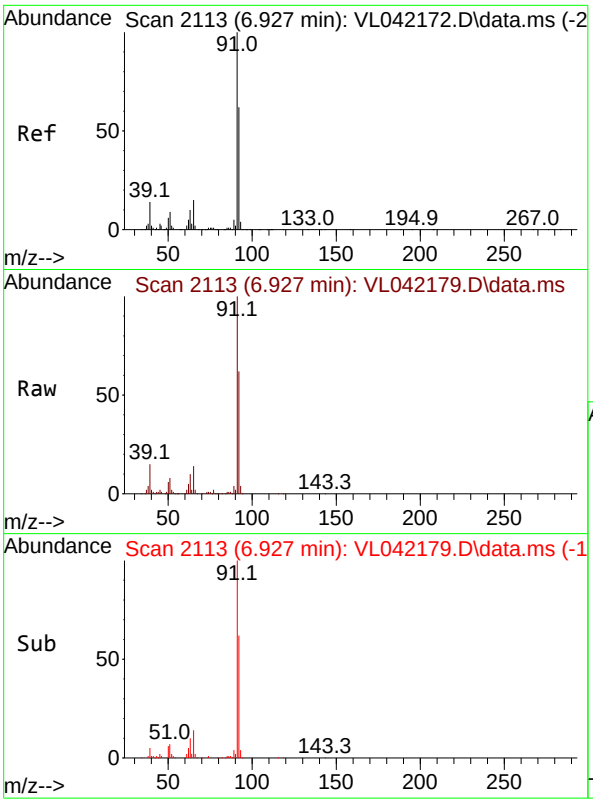




#52
Tetrachloroethene
Concen: 8.855 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:164 Resp: 173420

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 131.6 | 102.5 | 153.7 |
| 129 | 110.1 | 79.8 | 119.8 |
| 131 | 104.9 | 76.6 | 114.8 |



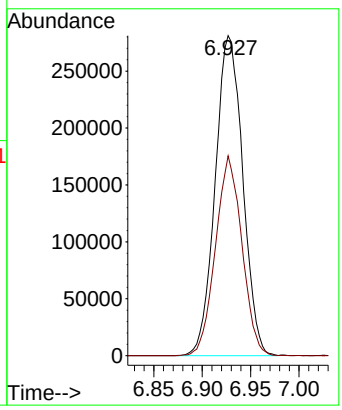


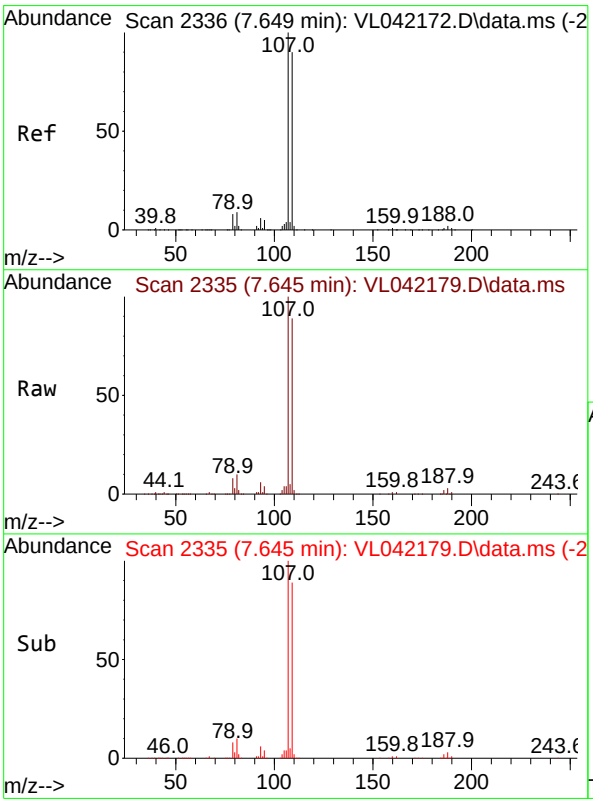

#53
Toluene
Concen: 9.514 ppbv
RT: 6.927 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

Tgt Ion: 91 Resp: 556897

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 59.8 | 48.4 | 72.6 |

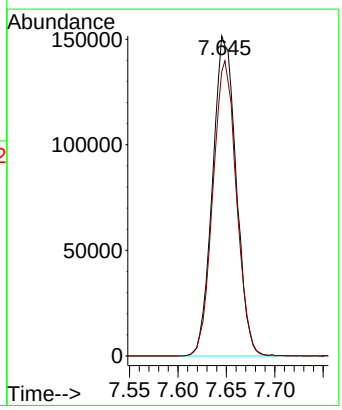


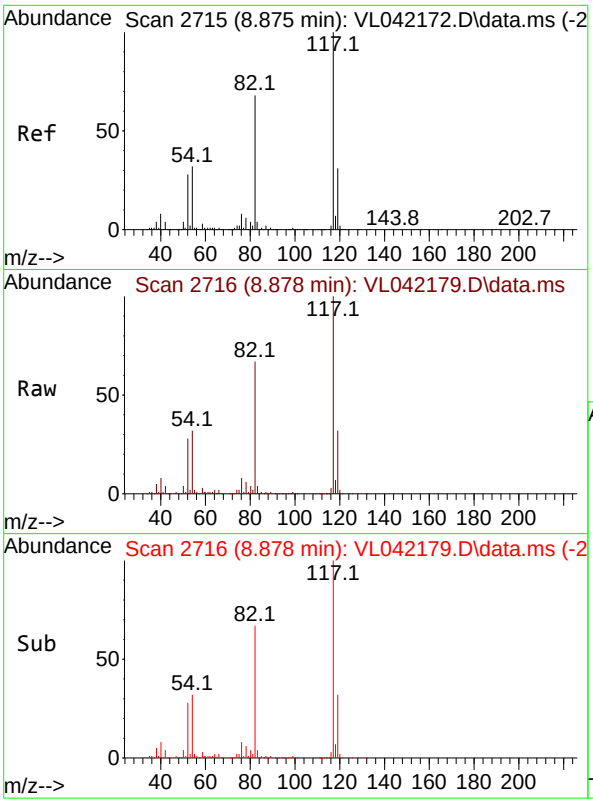




#54
1,2-Dibromoethane
Concen: 9.695 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:107 Resp: 256930

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 88.9 | 72.2 | 108.4 |



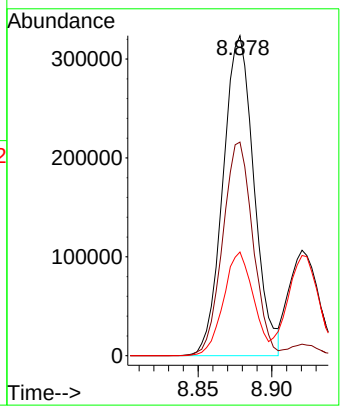


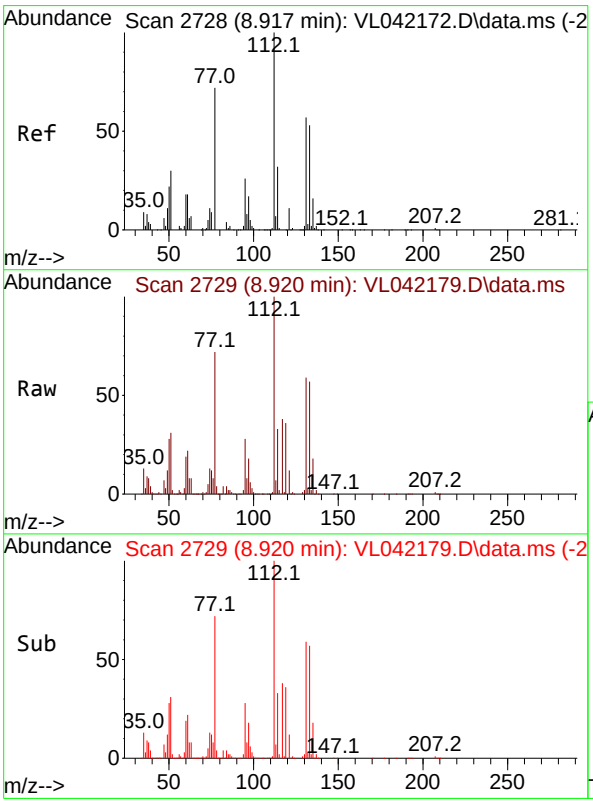

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

Tgt Ion:117 Resp: 473357

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 68.7 | 55.8 | 83.6 |
| 119 | 31.2 | 25.5 | 38.3 |

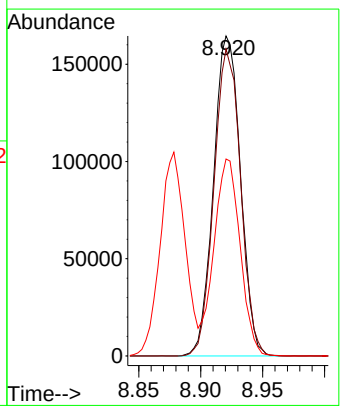


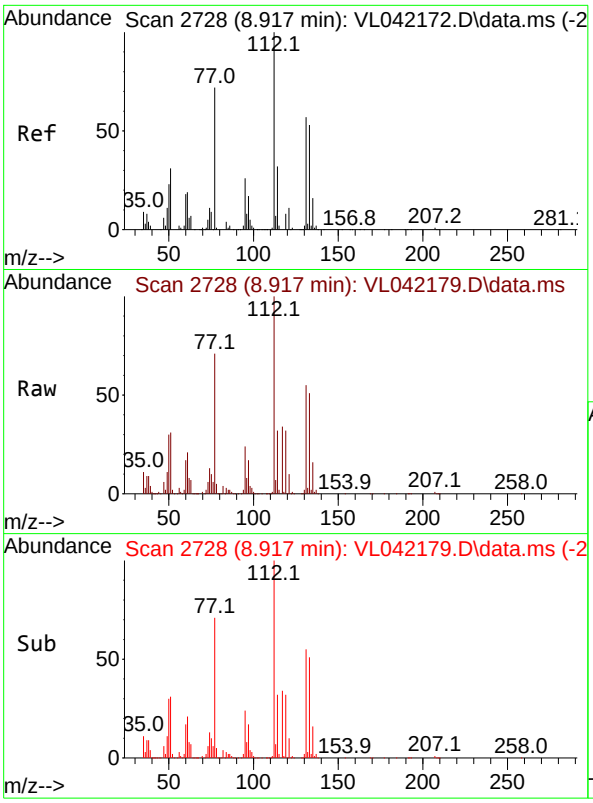




#56
1,1,1,2-Tetrachloroethane
Concen: 9.567 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:131 Resp: 249270

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.0 | 76.6 | 114.8 |
| 119 | 61.3 | 49.8 | 74.6 |



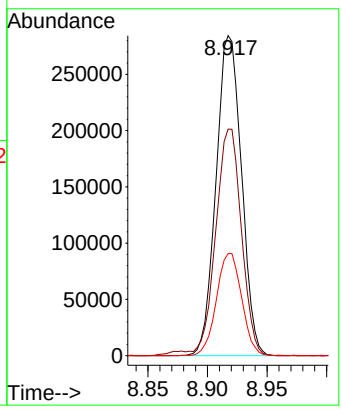


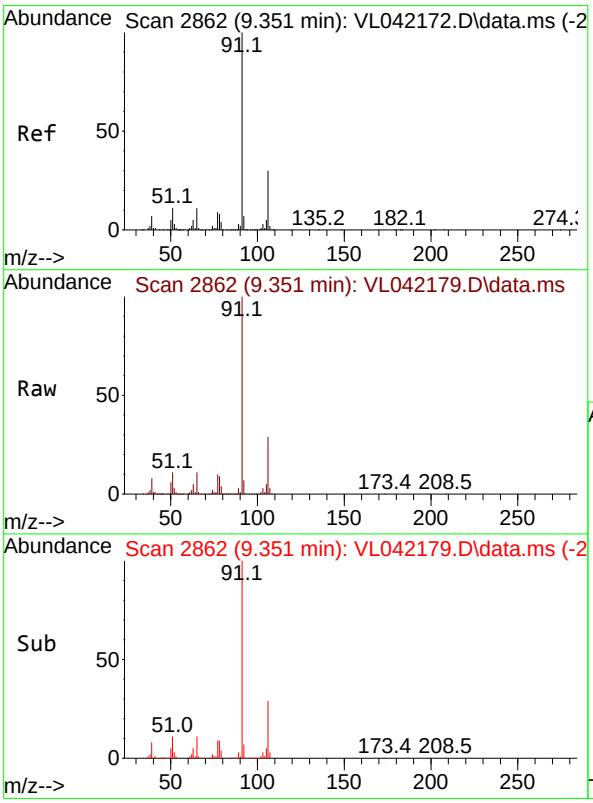

#57
Chlorobenzene
Concen: 9.411 ppbv
RT: 8.917 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

Tgt Ion:112 Resp: 422531

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 70.6 | 58.2 | 87.2 |
| 114 | 31.9 | 29.1 | 35.5 |

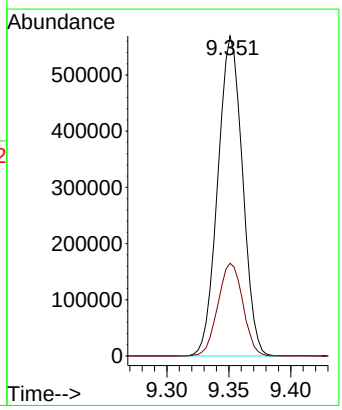


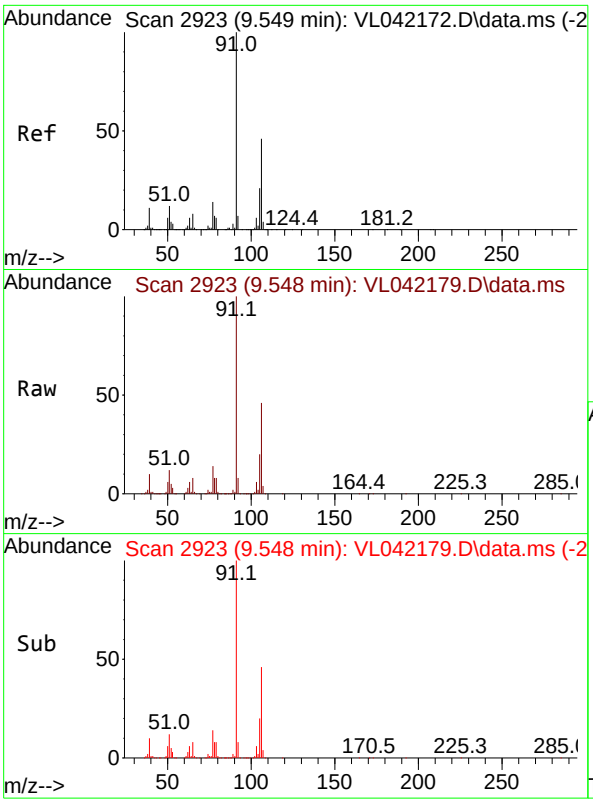




#58
Ethyl Benzene
Concen: 9.412 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 91 Resp: 791360

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 28.9 | 24.2 | 36.2 |



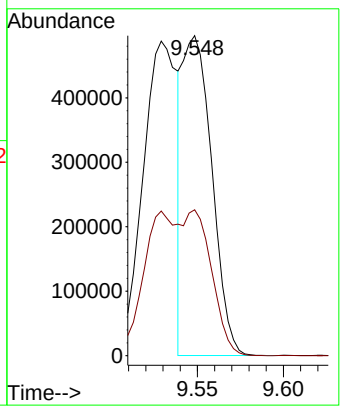


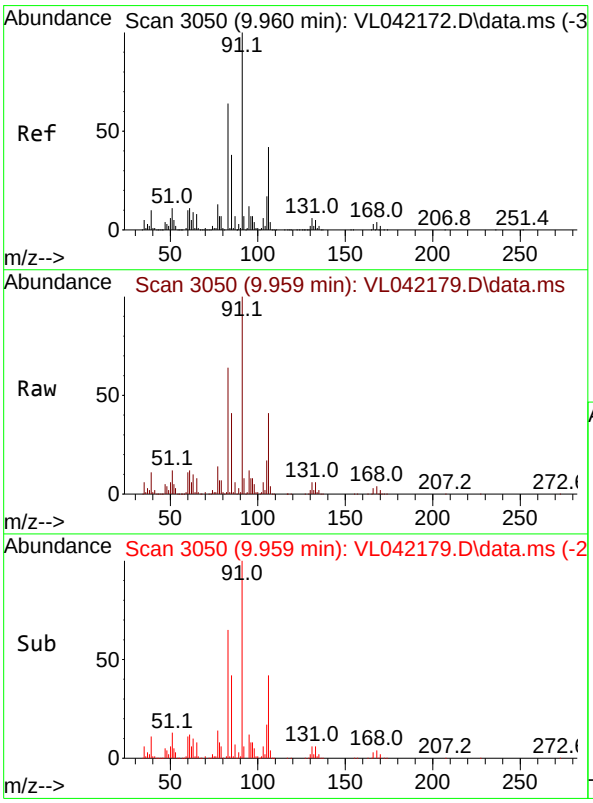

#59
m/p-Xylene
Concen: 8.695 ppbv
RT: 9.548 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

Tgt Ion: 91 Resp: 583773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 97.9 | 36.4 | 54.6# |

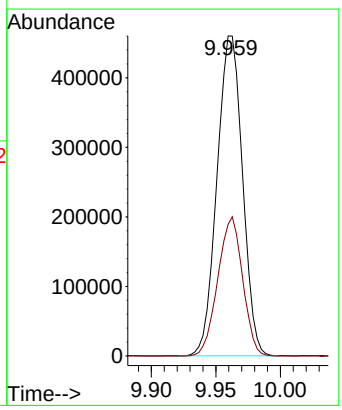


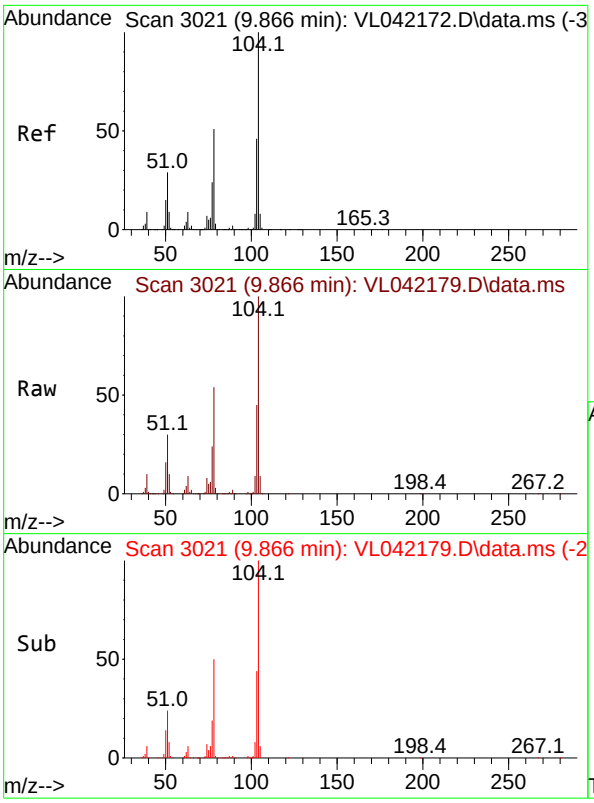




#60
o-Xylene
Concen: 9.404 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 91 Resp: 632918

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 42.2 | 20.8 | 62.5 |



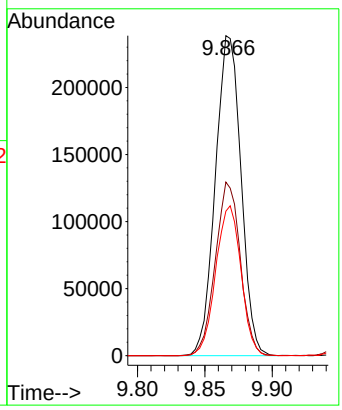


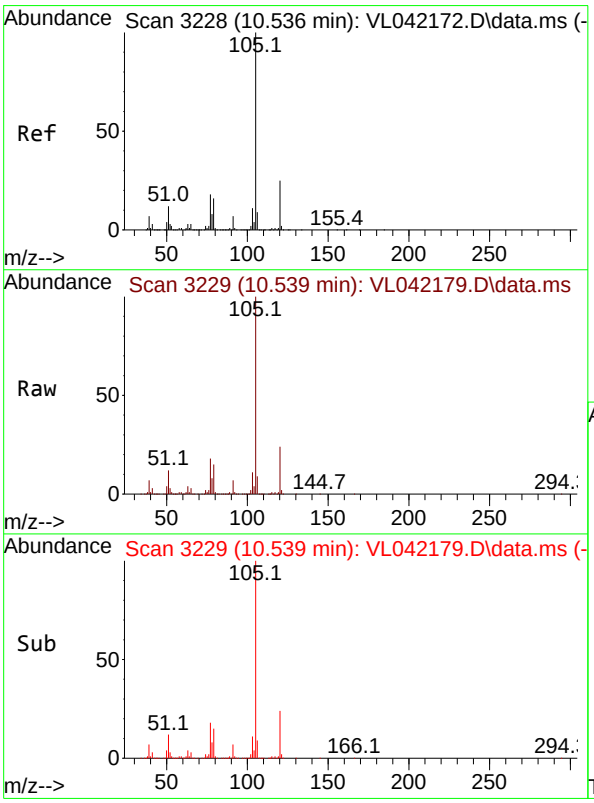

#61
Styrene
Concen: 9.488 ppbv
RT: 9.866 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

Tgt Ion:104 Resp: 315910

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 52.8 | 41.8 | 62.6 |
| 103 | 46.3 | 37.0 | 55.4 |

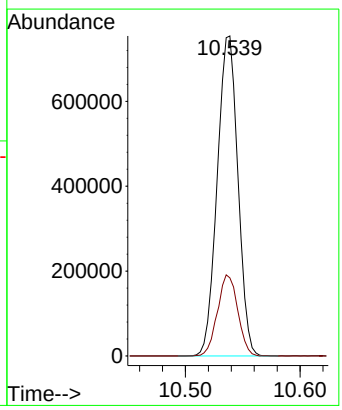


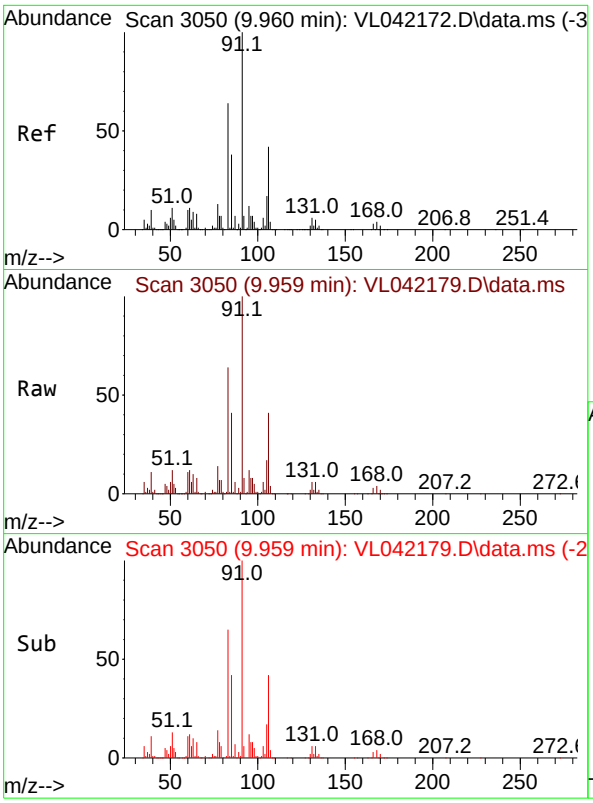




#62
Isopropylbenzene
Concen: 9.388 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:105 Resp: 944938

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 24.9 | 19.9 | 29.9 |



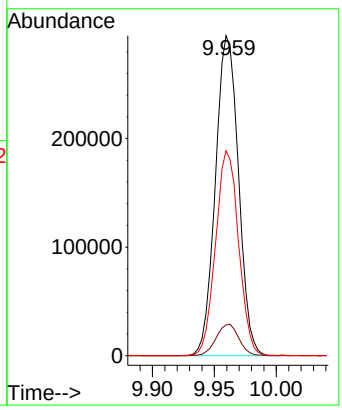


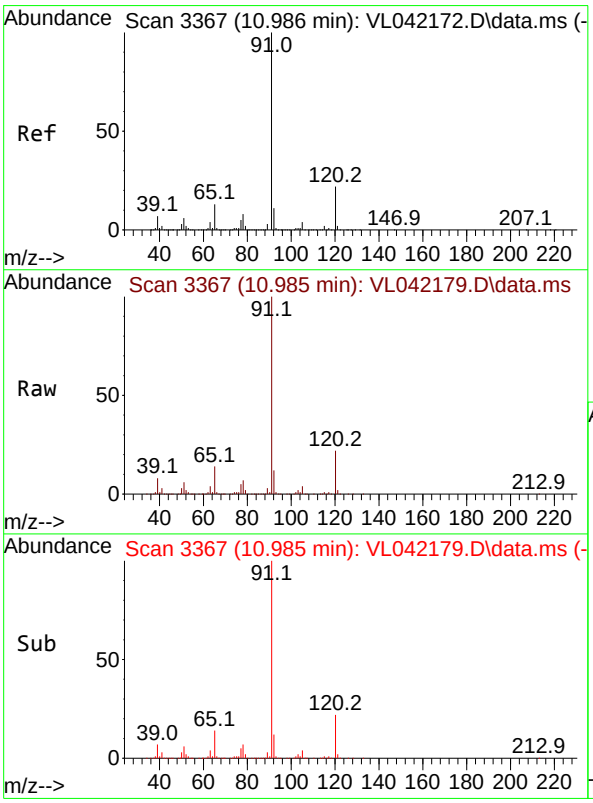

#63
1,1,2,2-Tetrachloroethane
Concen: 9.357 ppbv
RT: 9.959 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

Tgt Ion: 83 Resp: 382635

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.7 | 4.8 | 14.4 |
| 85 | 63.9 | 32.5 | 97.5 |

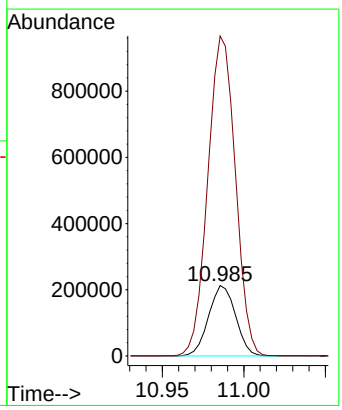


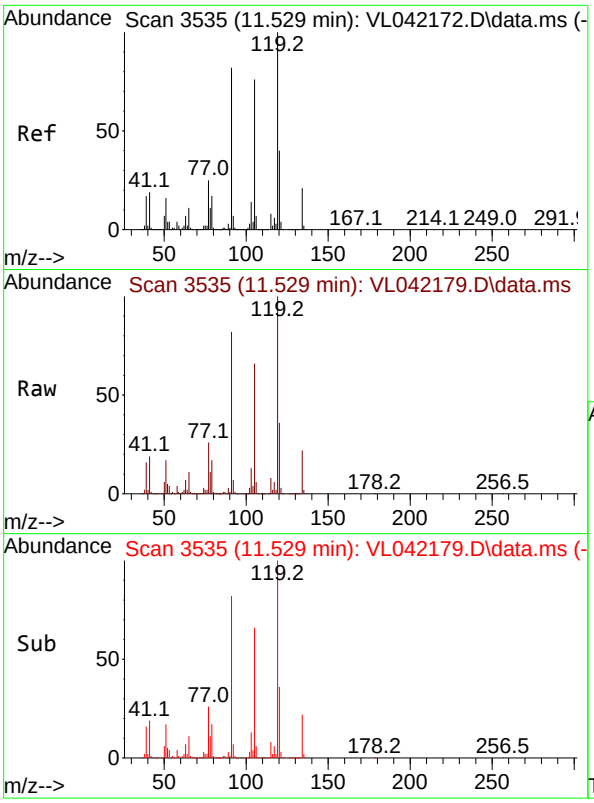




#64
n-propylbenzene
Concen: 9.439 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:120 Resp: 244547

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 465.9 | 376.9 | 565.3 |



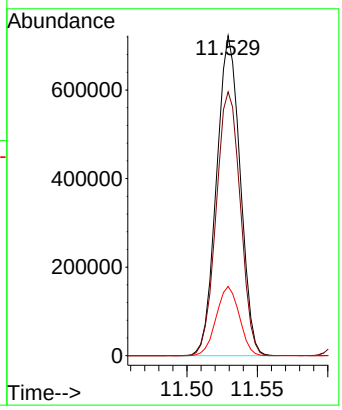


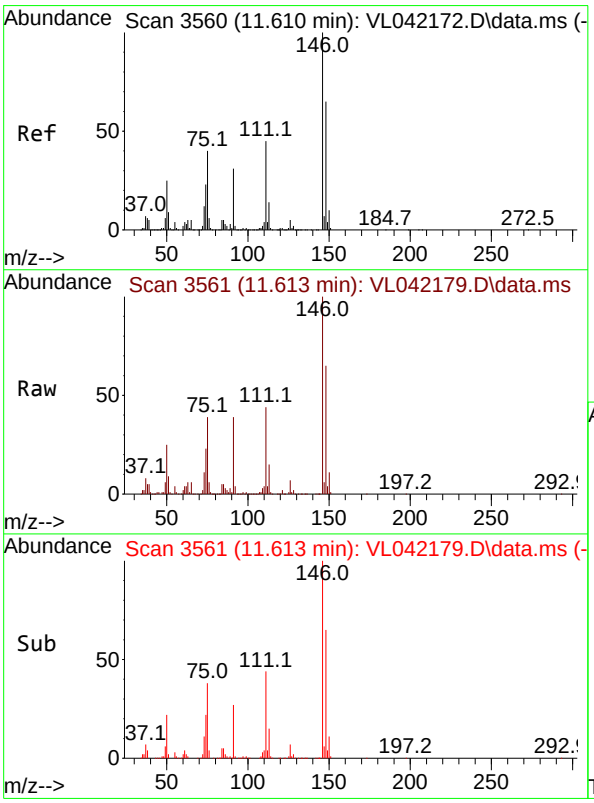

#65
tert-Butylbenzene
Concen: 9.065 ppbv
RT: 11.529 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

Tgt Ion:119 Resp: 843828

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 84.3 | 66.0 | 99.0 |
| 134 | 21.2 | 16.7 | 25.1 |

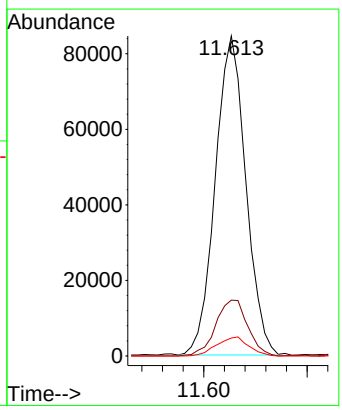


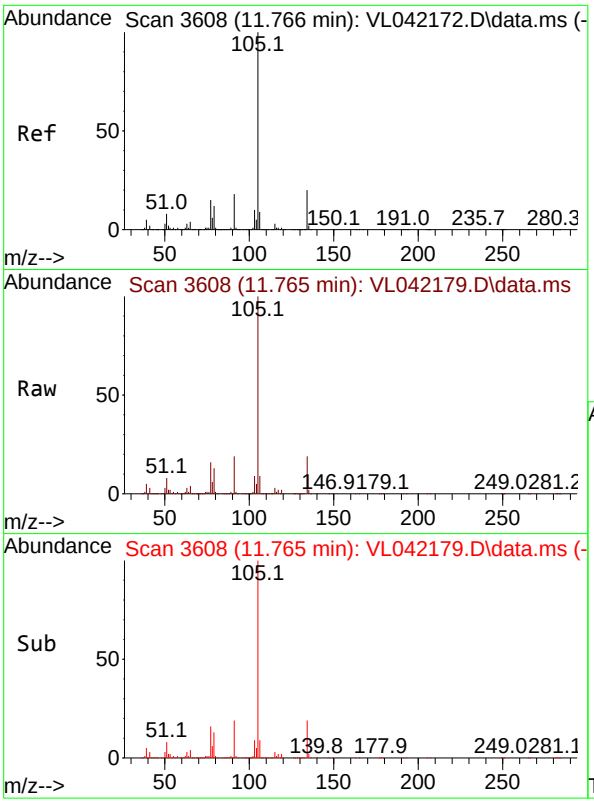




#66
Benzyl Chloride
Concen: 8.789 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 91 Resp: 86804

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 18.5 | 13.8 | 20.6 |
| 128 | 6.2 | 4.5 | 6.7 |



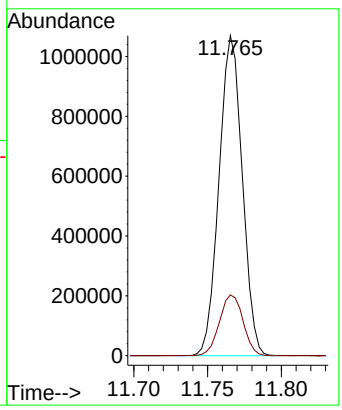


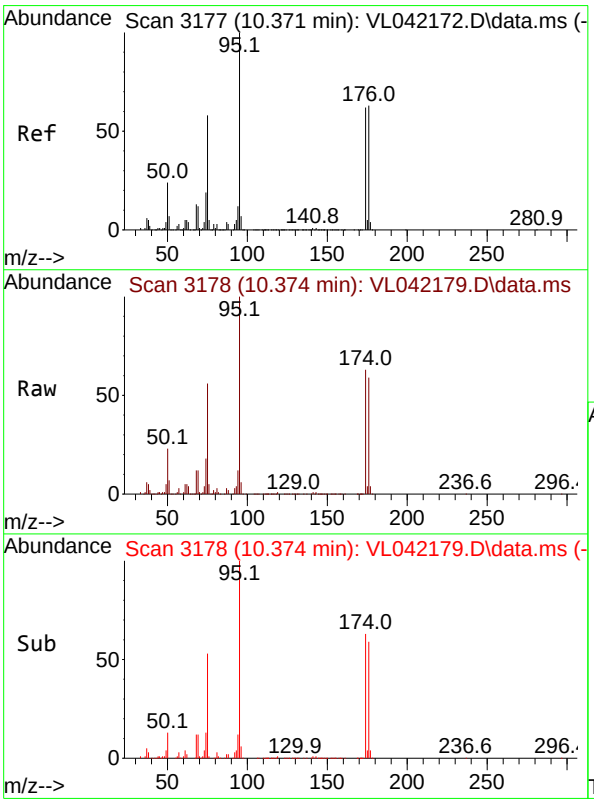

#67
sec-Butylbenzene
Concen: 9.063 ppbv
RT: 11.765 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

Tgt Ion:105 Resp: 1172636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.4 | 15.5 | 23.3 |

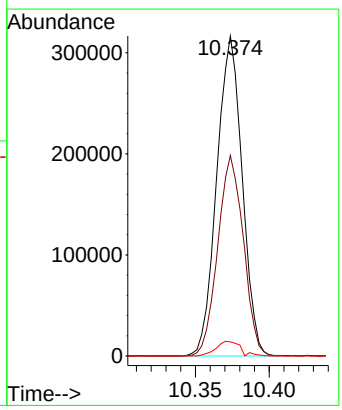


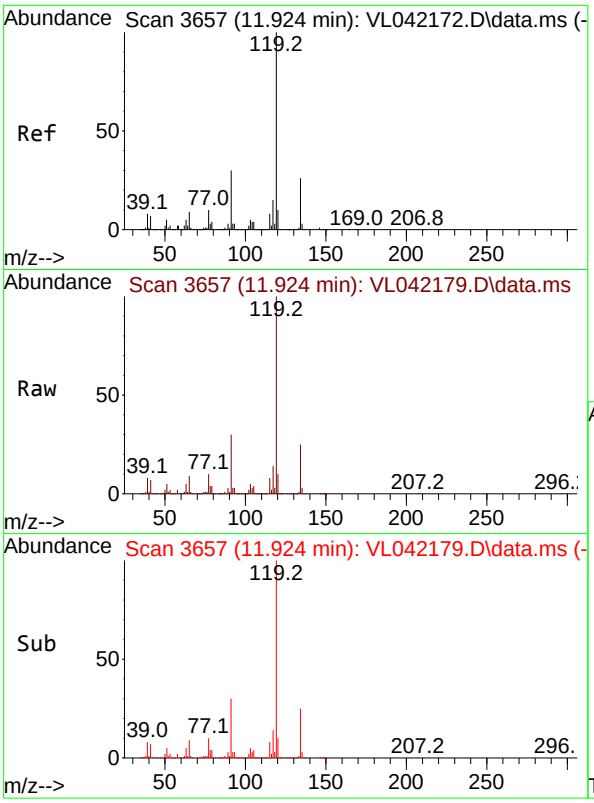




#68
1-Bromo-4-Fluorobenzene
Concen: 9.774 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 95 Resp: 379929

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 63.0 | 50.6 | 76.0 |
| 175 | 4.4 | 3.8 | 5.6 |



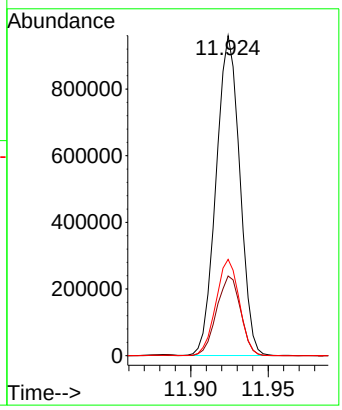


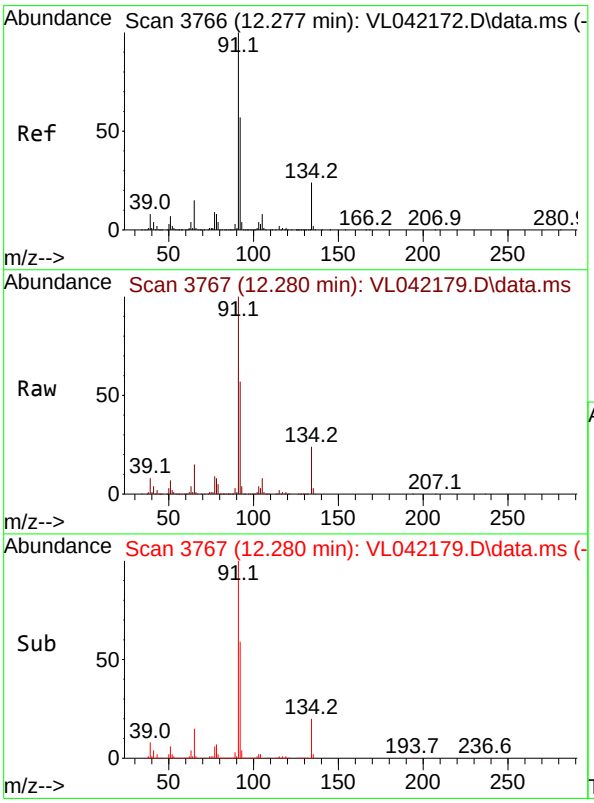

#69
p-Isopropyltoluene
Concen: 9.153 ppbv
RT: 11.924 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

Tgt Ion:119 Resp: 1019694

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.3 | 20.4 | 30.6 |
| 91 | 29.9 | 23.7 | 35.5 |

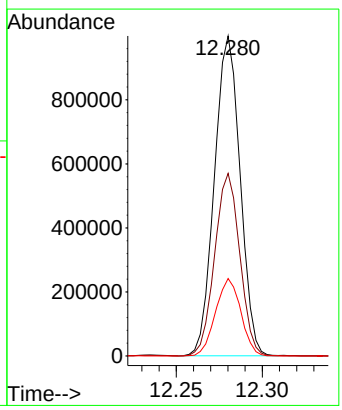


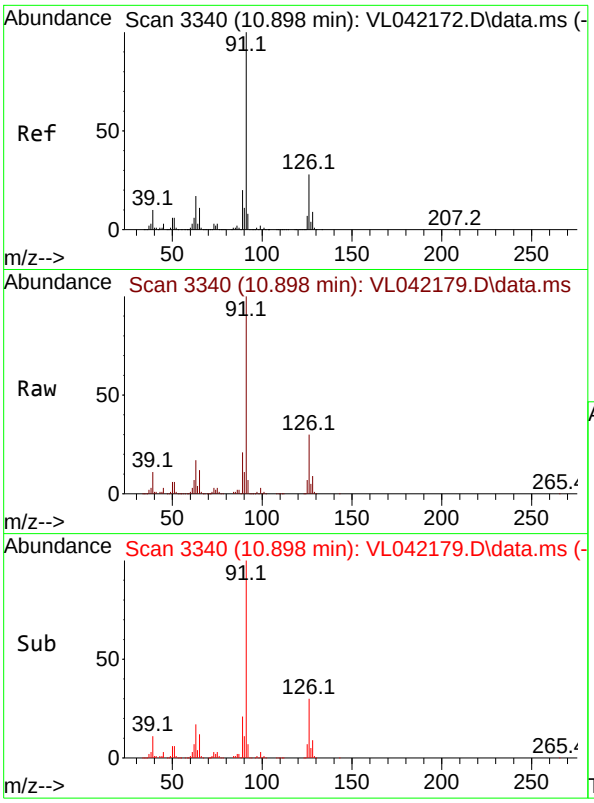




#70
n-Butylbenzene
Concen: 9.115 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 91 Resp: 1038548

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 56.0 | 44.9 | 67.3 |
| 134 | 23.8 | 19.2 | 28.8 |



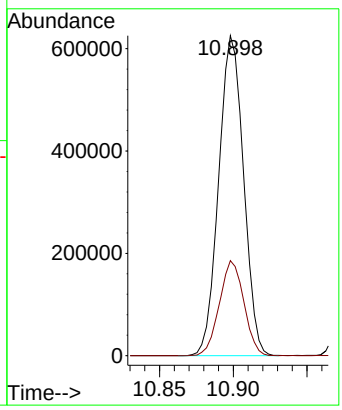


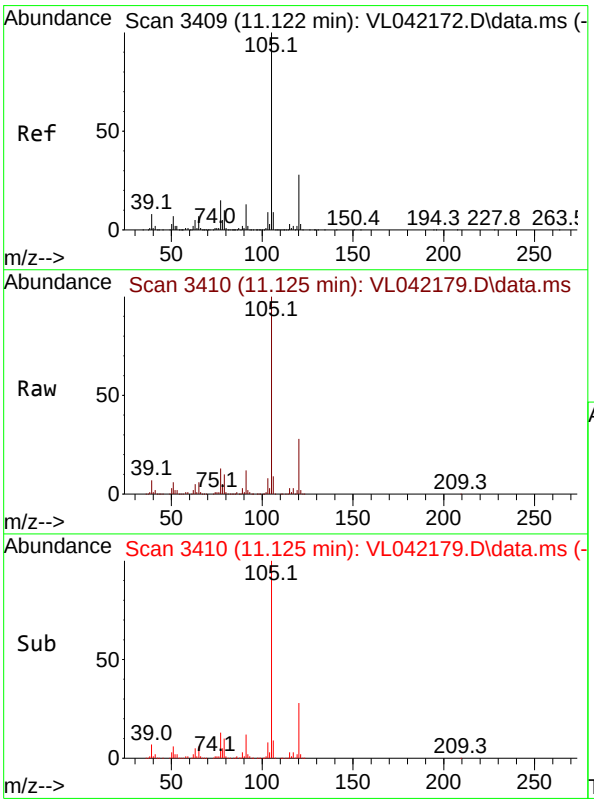

#71
2-Chlorotoluene
Concen: 9.382 ppbv
RT: 10.898 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

Tgt Ion: 91 Resp: 732874

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 29.2 | 11.6 | 46.4 |

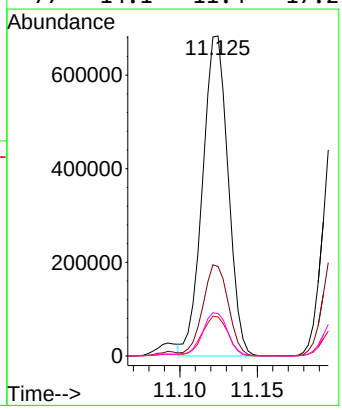


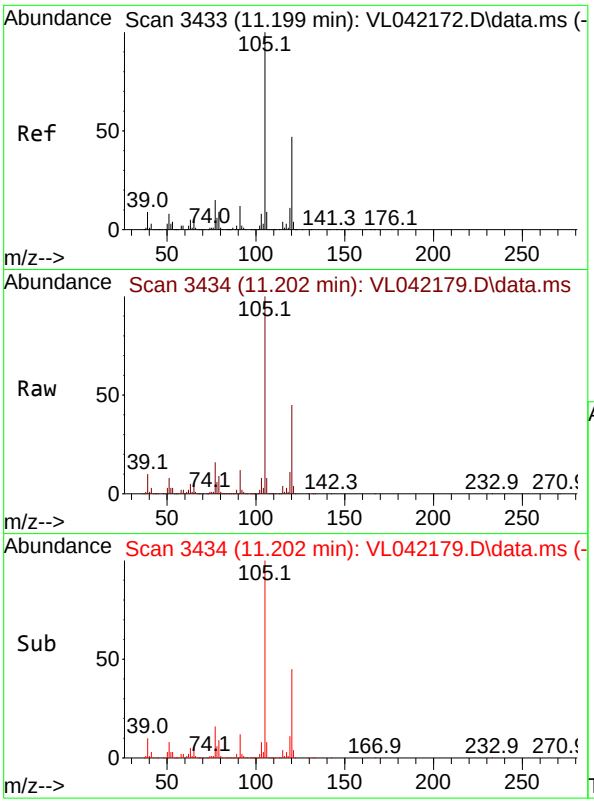




#72
4-Ethyltoluene
Concen: 9.370 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:105 Resp: 785185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 29.6 | 23.4 | 35.0 |
| 91 | 12.9 | 10.3 | 15.5 |
| 77 | 14.1 | 11.4 | 17.2 |



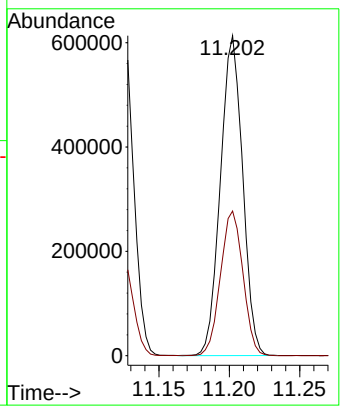


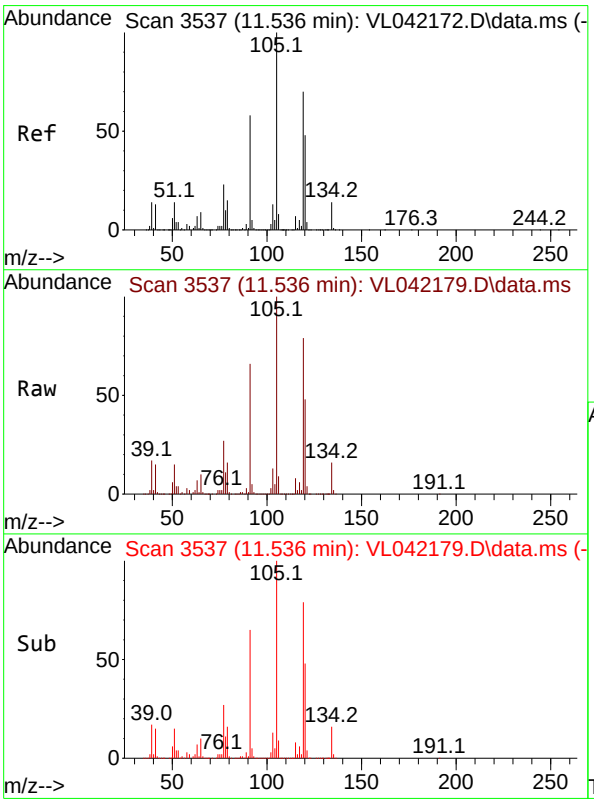

#73
1,3,5-Trimethylbenzene
Concen: 9.203 ppbv
RT: 11.202 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

Tgt Ion:105 Resp: 673541

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.2 | 37.4 | 56.0 |

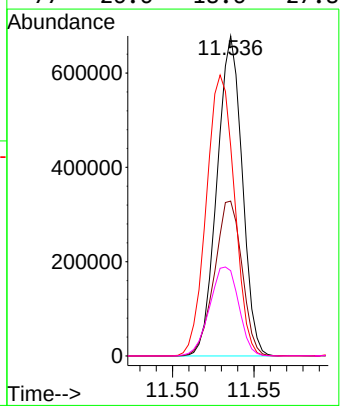


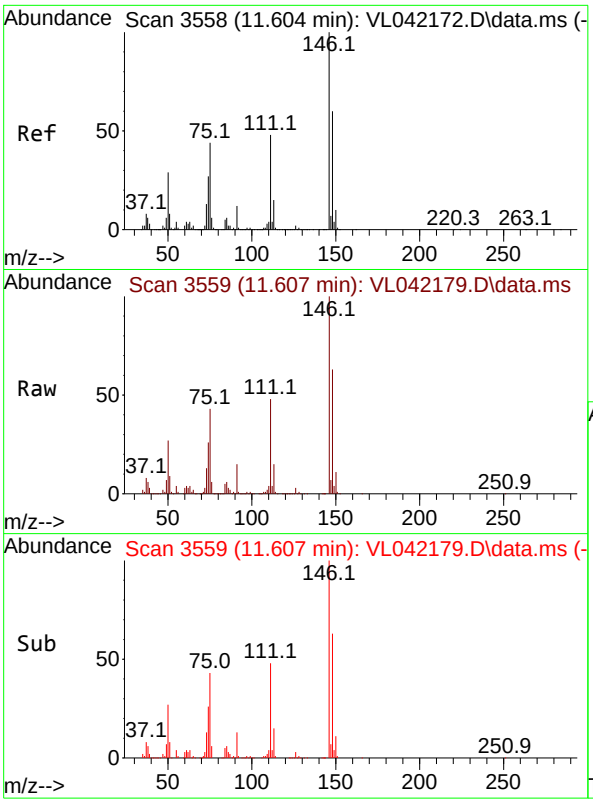




#74
1,2,4-Trimethylbenzene
Concen: 8.648 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:105 Resp: 729155

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.4 | 38.6 | 58.0 |
| 91 | 65.6 | 46.2 | 69.2 |
| 77 | 26.6 | 18.6 | 27.8 |



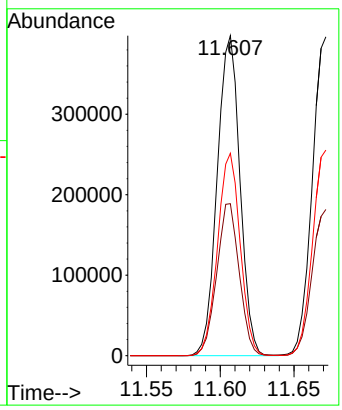


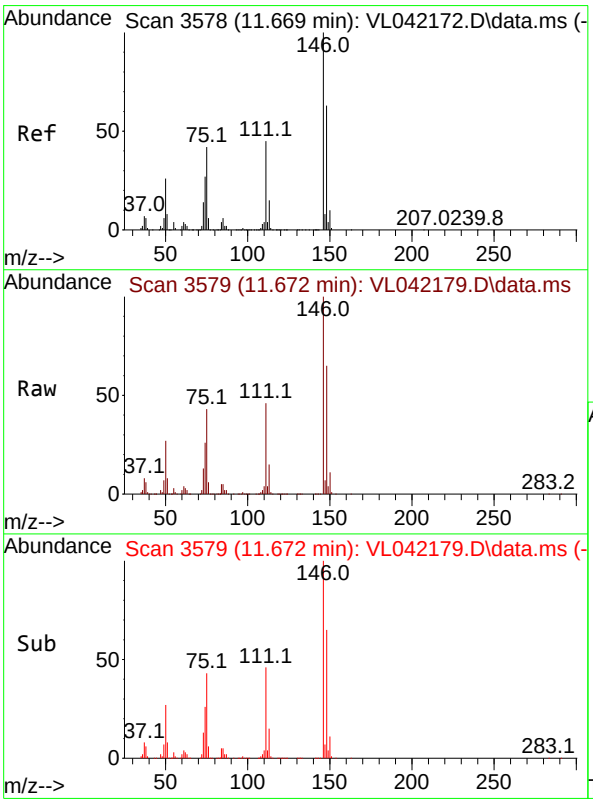

#75
1,3-Dichlorobenzene
Concen: 9.224 ppbv
RT: 11.607 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

Tgt Ion:146 Resp: 426573

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 47.2 | 23.8 | 71.2 |
| 148 | 62.9 | 31.9 | 95.9 |

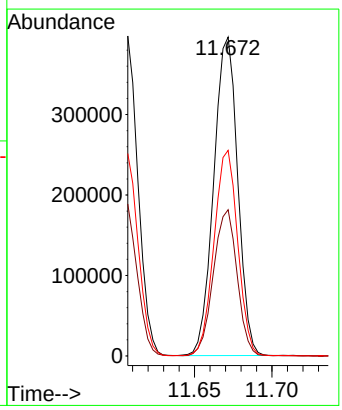


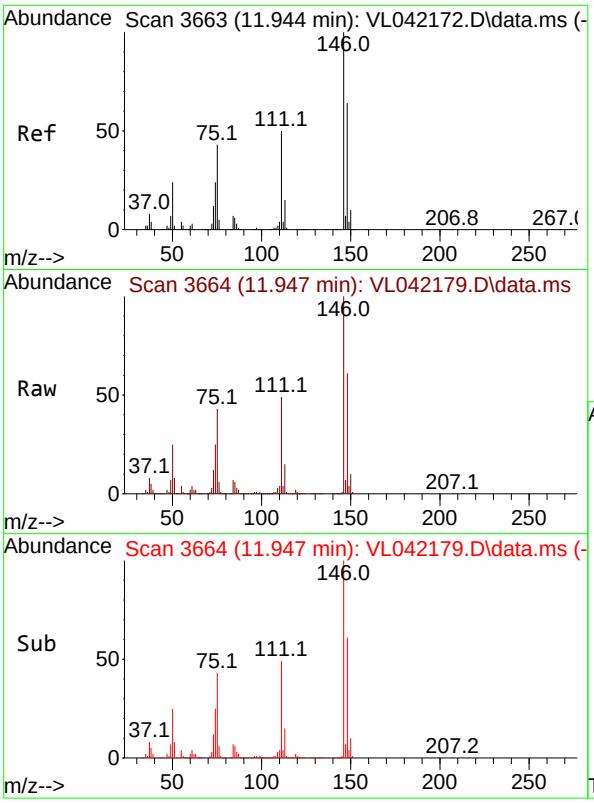




#76
1,4-Dichlorobenzene
Concen: 9.263 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:146 Resp: 426318

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 45.6 | 23.0 | 69.0 |
| 148 | 64.1 | 31.9 | 95.7 |



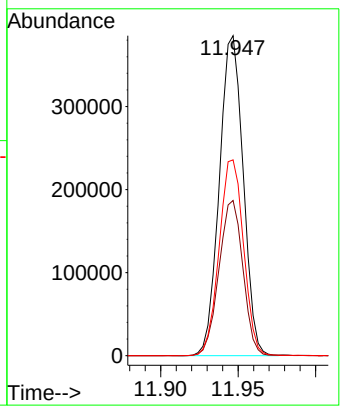


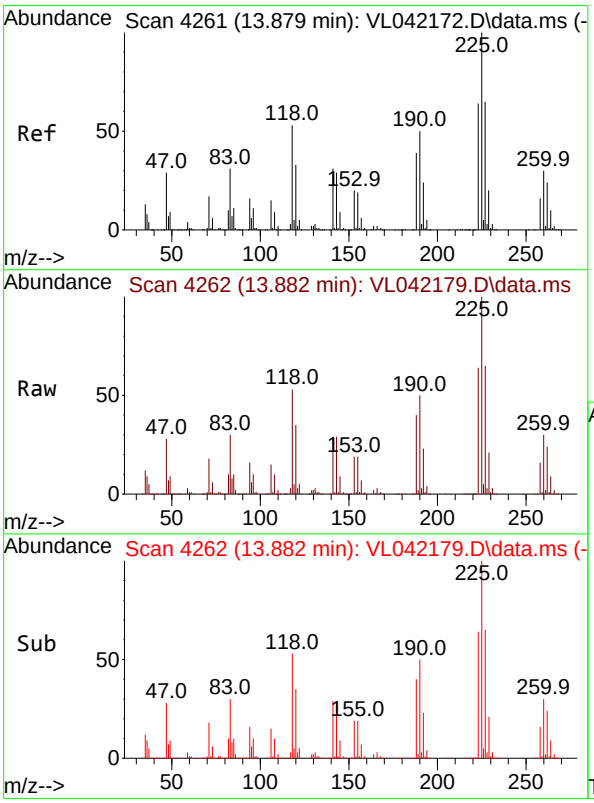

#77
1,2-Dichlorobenzene
Concen: 9.154 ppbv
RT: 11.947 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

Tgt Ion:146 Resp: 412180

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 48.8 | 24.8 | 74.3 |
| 148 | 62.8 | 31.6 | 94.8 |

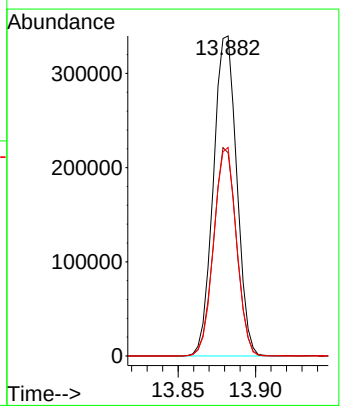


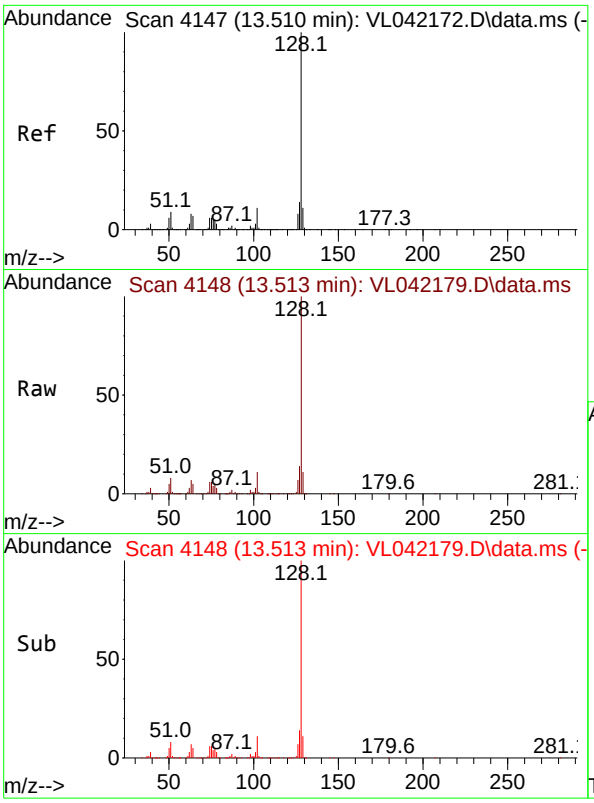




#78
Hexachloro-1,3-Butadiene
Concen: 7.776 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:225 Resp: 356386

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.4 | 50.6 | 76.0 |
| 227 | 63.4 | 51.2 | 76.8 |



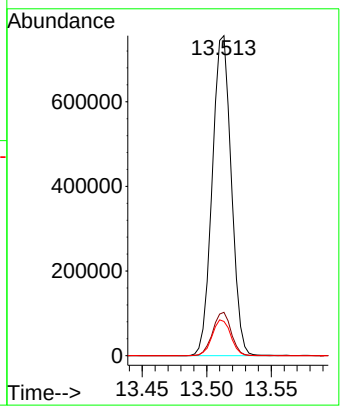


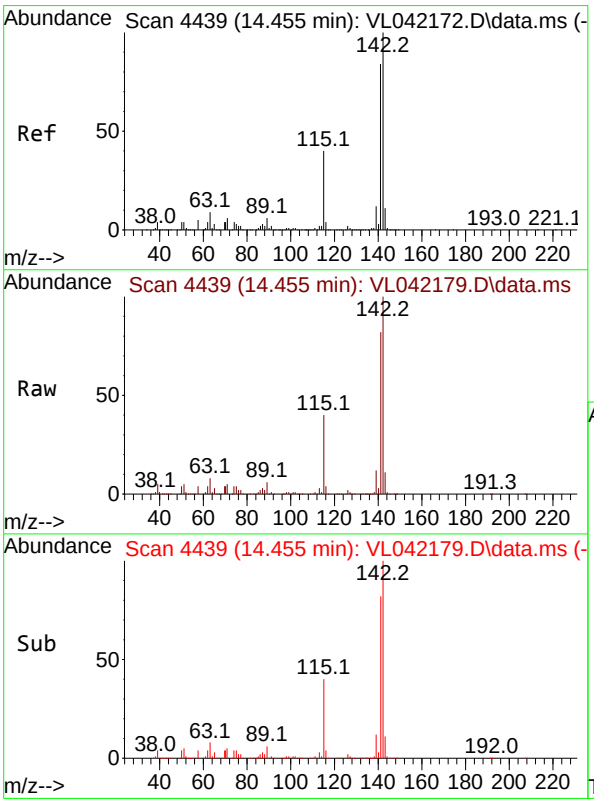

#79
Naphthalene
Concen: 8.385 ppbv
RT: 13.513 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

Tgt Ion:128 Resp: 773311

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.6 | 10.8 | 16.2 |
| 129 | 10.7 | 9.0 | 13.4 |

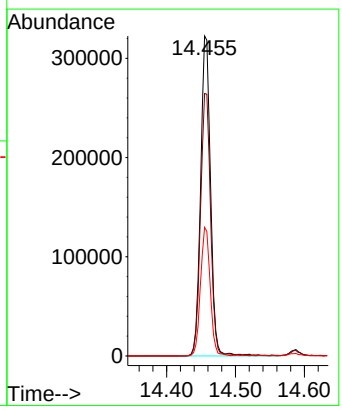


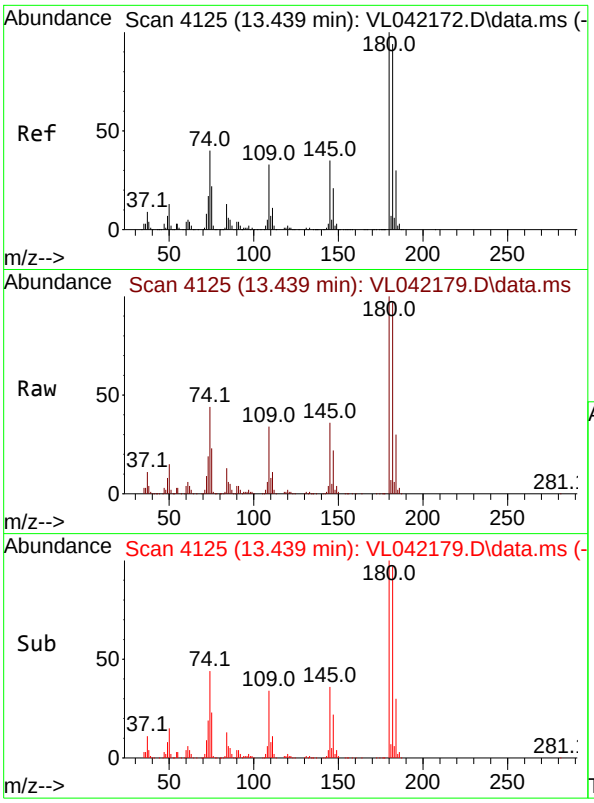




#80
Naphthalene,2-methyl-
Concen: 7.151 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:142 Resp: 323443

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 83.5 | 66.3 | 99.5 |
| 115 | 39.8 | 31.6 | 47.4 |



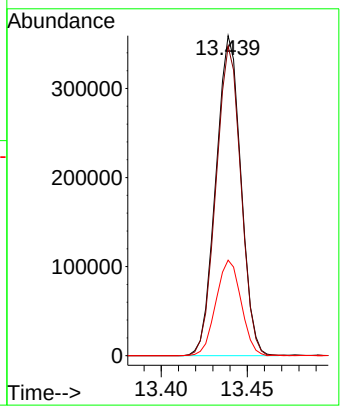



#81
1,2,4-Trichlorobenzene
Concen: 8.553 ppbv
RT: 13.439 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL032725

Tgt Ion:180 Resp: 363863

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.2 | 75.1 | 112.7 |
| 184 | 30.1 | 24.4 | 36.6 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042286.D
Acq On : 09 Apr 2025 10:20
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Quant Time: Apr 10 01:39:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.784 | 49 | 155631 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.956 | 114 | 397176 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.879 | 117 | 350140 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.374 | 95 | 285515 | 9.930 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 99.300% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.496 | 85 | 224739 | 9.780 | ppbv | 99 |
| 3) Chlorodifluoromethane | 1.473 | 51 | 242368 | 10.325 | ppbv | 99 |
| 4) Chloromethane | 1.531 | 50 | 94421 | 10.054 | ppbv | 99 |
| 5) Vinyl Chloride | 1.580 | 62 | 87077 | 8.750 | ppbv | 96 |
| 6) Bromomethane | 1.667 | 94 | 38883 | 9.136 | ppbv | 95 |
| 7) Chloroethane | 1.703 | 64 | 35019 | 9.290 | ppbv | 100 |
| 8) Dichlorotetrafluoroethane | 1.554 | 85 | 193376 | 9.882 | ppbv | 92 |
| 9) Propene | 1.483 | 41 | 92247 | 8.573 | ppbv | 98 |
| 10) Heptane | 4.972 | 43 | 280156 | 9.789 | ppbv | 99 |
| 11) Trichlorofluoromethane | 1.874 | 101 | 218729 | 9.783 | ppbv | 97 |
| 12) 1,1,2-Trichlorotrifluo... | 2.137 | 101 | 178752 | 9.726 | ppbv | 98 |
| 13) Ethanol | 1.719 | 45 | 4608 | 4.530 | ppbv | 92 |
| 14) Bromoethene | 1.781 | 108 | 61204 | 8.693 | ppbv | 97 |
| 15) Acetone | 1.832 | 43 | 196063 | 9.008 | ppbv | 96 |
| 16) 1,3-Butadiene | 1.606 | 39 | 94932 | 8.931 | ppbv | 98 |
| 17) tert-Butyl alcohol | 2.040 | 59 | 220187 | 8.122 | ppbv | 98 |
| 18) 1,1-Dichloroethene | 2.033 | 96 | 77686 | 9.042 | ppbv | 98 |
| 19) Isopropyl Alcohol | 1.884 | 45 | 103348 | 8.415 | ppbv | 93 |
| 20) Methylene Chloride | 2.059 | 84 | 68588 | 8.461 | ppbv | 95 |
| 21) Allyl Chloride | 2.095 | 41 | 139965 | 9.118 | ppbv | 96 |
| 22) trans-1,2-Dichloroethene | 2.337 | 96 | 88334 | 8.896 | ppbv | 94 |
| 23) Vinyl Acetate | 2.460 | 43 | 73162 | 7.766 | ppbv # | 96 |
| 24) 1,1-Dichloroethane | 2.405 | 63 | 180404 | 9.801 | ppbv | 99 |
| 25) Ethyl Acetate | 2.833 | 43 | 567125 | 10.039 | ppbv | 98 |
| 26) Hexane | 2.823 | 57 | 214891 | 9.848 | ppbv | 97 |
| 27) Carbon Disulfide | 2.146 | 76 | 216499 | 9.253 | ppbv | 97 |
| 28) Methyl tert-Butyl Ether | 2.438 | 73 | 109726 | 8.077 | ppbv | 94 |
| 29) Chloroform | 2.845 | 83 | 340889 | 10.675 | ppbv | 99 |
| 30) Cyclohexane | 3.852 | 84 | 170359 | 8.991 | ppbv | 97 |
| 31) cis-1,2-Dichloroethene | 2.719 | 61 | 201796 | 9.110 | ppbv | 97 |
| 32) 1,1,1-Trichloroethane | 3.363 | 97 | 332252 | 9.088 | ppbv | 98 |
| 34) 2-Butanone | 2.554 | 43 | 313515 | 10.886 | ppbv | 98 |
| 35) Carbon Tetrachloride | 3.758 | 117 | 349240 | 11.256 | ppbv | 100 |
| 36) Benzene | 3.651 | 78 | 425324 | 10.802 | ppbv | 97 |
| 37) 1,2-Dichloroethane | 3.214 | 62 | 256791 | 11.391 | ppbv | 99 |
| 38) Trichloroethene | 4.541 | 130 | 170362 | 10.370 | ppbv | 97 |
| 39) 1,2-Dichloropropane | 4.312 | 63 | 153583 | 10.710 | ppbv | 95 |
| 40) 1,4-Dioxane | 4.577 | 88 | 72604 | 9.539 | ppbv # | 95 |
| 41) Tetrahydrofuran | 3.053 | 42 | 175060 | 10.556 | ppbv | 95 |
| 42) Bromodichloromethane | 4.483 | 83 | 358962 | 11.551 | ppbv | 100 |
| 43) Methyl Methacrylate | 4.875 | 69 | 154975 | 9.297 | ppbv | 97 |
| 44) 2,2,4-Trimethylpentane | 4.635 | 57 | 742388 | 11.157 | ppbv | 96 |
| 45) t-1,3-Dichloropropene | 6.412 | 75 | 147204 | 8.231 | ppbv | 98 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042286.D
Acq On : 09 Apr 2025 10:20
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Quant Time: Apr 10 01:39:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

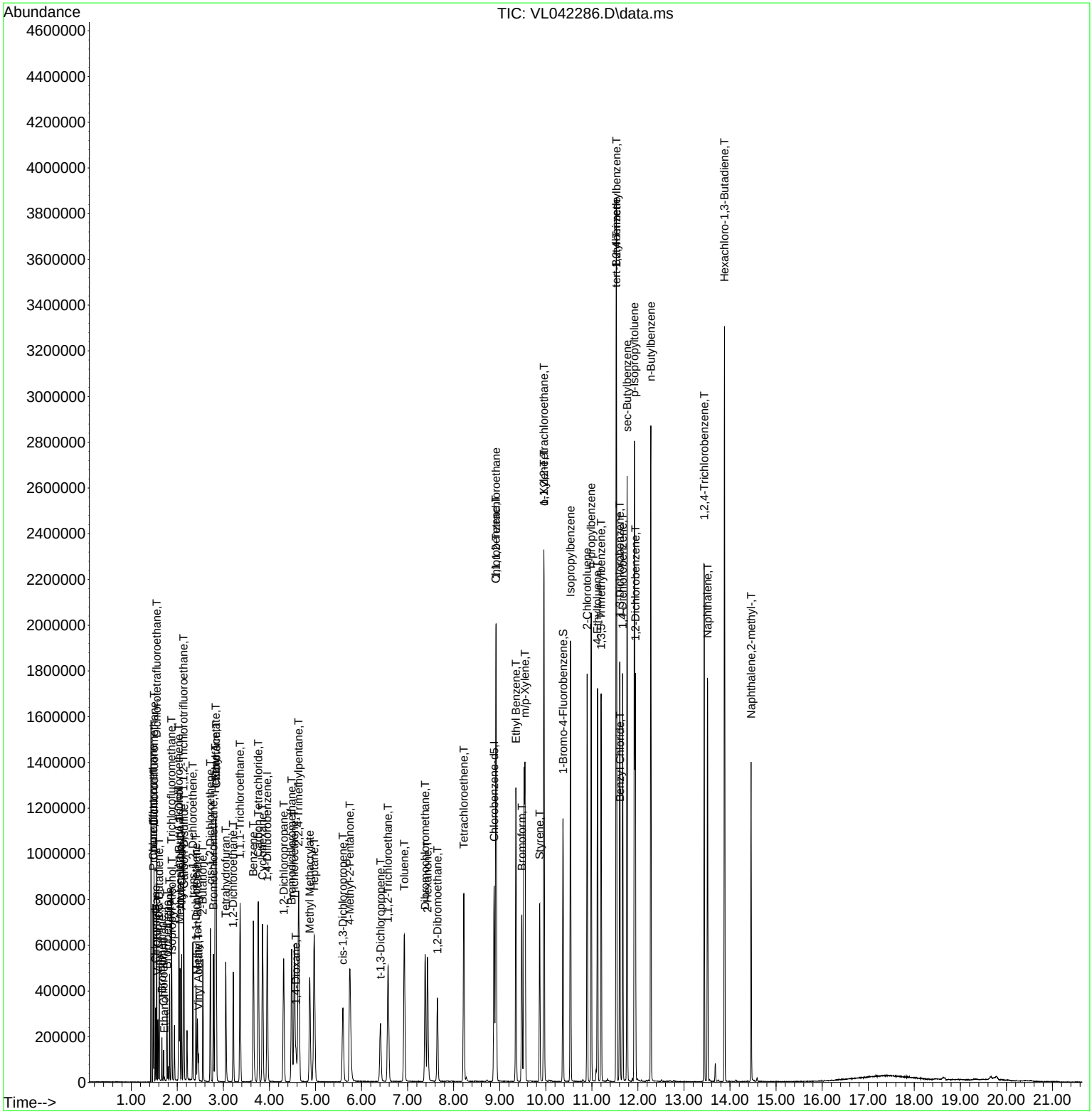
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.593 | 75 | 195802 | 8.932 | ppbv | | 98 |
| 47) 1,1,2-Trichloroethane | 6.574 | 97 | 172343 | 11.369 | ppbv | | 97 |
| 48) Dibromochloromethane | 7.380 | 129 | 280199 | 10.907 | ppbv | | 100 |
| 49) Bromoform | 9.481 | 173 | 250227 | 10.849 | ppbv | | 99 |
| 50) 4-Methyl-2-Pentanone | 5.745 | 43 | 445454 | 9.760 | ppbv | | 95 |
| 51) 2-Hexanone | 7.432 | 43 | 353706 | 9.437 | ppbv | # | 94 |
| 52) Tetrachloroethene | 8.222 | 164 | 141976 | 9.092 | ppbv | | 95 |
| 53) Toluene | 6.927 | 91 | 464948 | 9.961 | ppbv | | 99 |
| 54) 1,2-Dibromoethane | 7.649 | 107 | 229720 | 10.871 | ppbv | | 96 |
| 56) 1,1,1,2-Tetrachloroethane | 8.921 | 131 | 231041 | 11.987 | ppbv | | 98 |
| 57) Chlorobenzene | 8.917 | 112 | 399227 | 12.021 | ppbv | | 93 |
| 58) Ethyl Benzene | 9.351 | 91 | 673801 | 10.834 | ppbv | | 98 |
| 59) m/p-Xylene | 9.549 | 91 | 529747 | 10.667 | ppbv | # | 14 |
| 60) o-Xylene | 9.960 | 91 | 581045 | 11.671 | ppbv | | 97 |
| 61) Styrene | 9.869 | 104 | 251525 | 10.212 | ppbv | | 98 |
| 62) Isopropylbenzene | 10.536 | 105 | 859013 | 11.538 | ppbv | | 99 |
| 63) 1,1,2,2-Tetrachloroethane | 9.960 | 83 | 381841 | 12.623 | ppbv | | 99 |
| 64) n-propylbenzene | 10.986 | 120 | 228532 | 11.925 | ppbv | | 100 |
| 65) tert-Butylbenzene | 11.529 | 119 | 784483 | 11.393 | ppbv | | 100 |
| 66) Benzyl Chloride | 11.614 | 91 | 57966 | 7.934 | ppbv | | 100 |
| 67) sec-Butylbenzene | 11.766 | 105 | 1128106 | 11.787 | ppbv | | 100 |
| 69) p-Isopropyltoluene | 11.924 | 119 | 961623 | 11.669 | ppbv | | 99 |
| 70) n-Butylbenzene | 12.280 | 91 | 998455 | 11.847 | ppbv | | 99 |
| 71) 2-Chlorotoluene | 10.898 | 91 | 654276 | 11.323 | ppbv | | 98 |
| 72) 4-Ethyltoluene | 11.122 | 105 | 728517 | 11.753 | ppbv | | 99 |
| 73) 1,3,5-Trimethylbenzene | 11.202 | 105 | 620415 | 11.460 | ppbv | | 100 |
| 74) 1,2,4-Trimethylbenzene | 11.536 | 105 | 709204 | 11.371 | ppbv | | 97 |
| 75) 1,3-Dichlorobenzene | 11.607 | 146 | 426300 | 12.462 | ppbv | | 98 |
| 76) 1,4-Dichlorobenzene | 11.669 | 146 | 423561 | 12.442 | ppbv | | 99 |
| 77) 1,2-Dichlorobenzene | 11.947 | 146 | 419286 | 12.589 | ppbv | | 99 |
| 78) Hexachloro-1,3-Butadiene | 13.879 | 225 | 334414 | 9.864 | ppbv | | 99 |
| 79) Naphthalene | 13.513 | 128 | 808459 | 11.851 | ppbv | | 99 |
| 80) Naphthalene,2-methyl- | 14.459 | 142 | 373298 | 11.158 | ppbv | | 100 |
| 81) 1,2,4-Trichlorobenzene | 13.439 | 180 | 355741 | 11.305 | ppbv | | 100 |

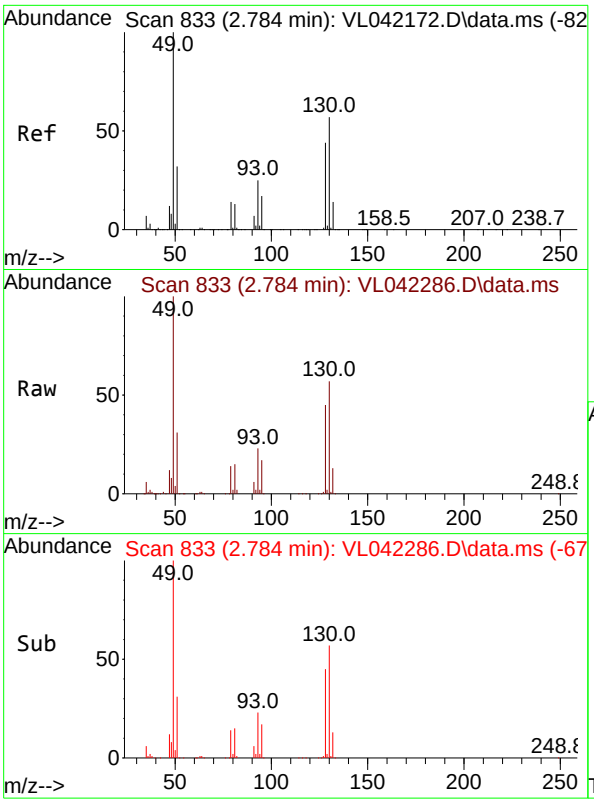
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042286.D
Acq On : 09 Apr 2025 10:20
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Quant Time: Apr 10 01:39:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration



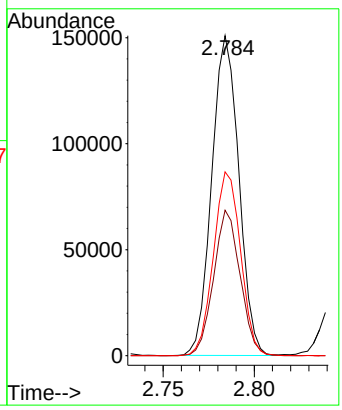


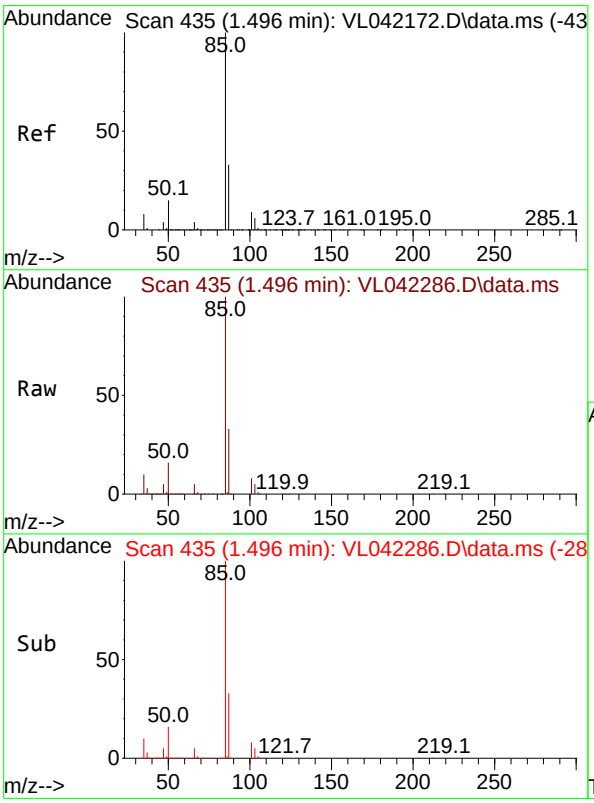

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 49 Resp: 155631

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 44.6 | 22.9 | 68.5 |
| 130 | 57.7 | 28.8 | 86.4 |

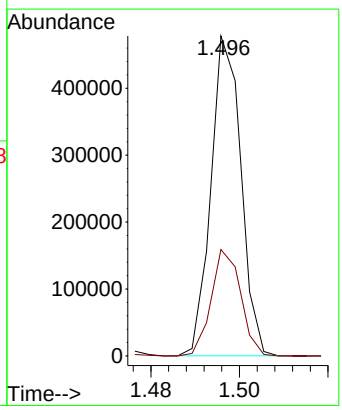


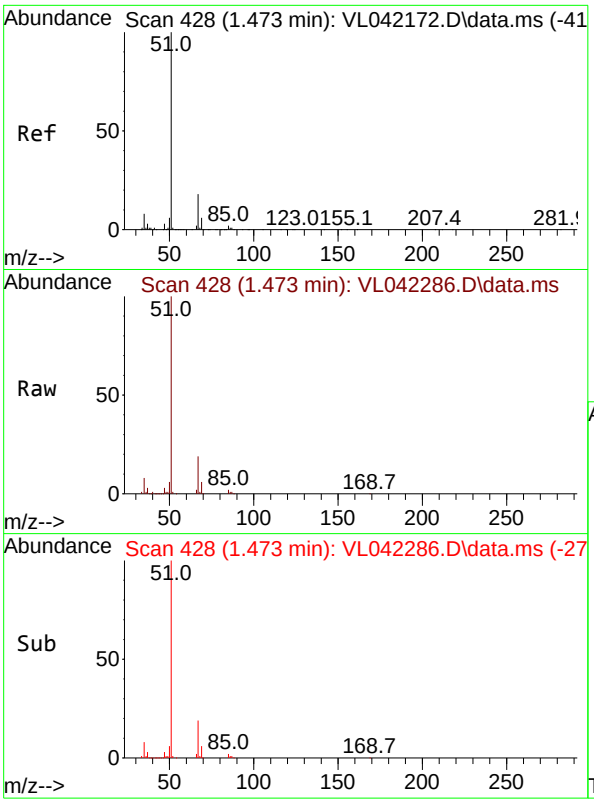




#2
Dichlorodifluoromethane
Concen: 9.780 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 85 Resp: 224739

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.3 | 26.1 | 39.1 |



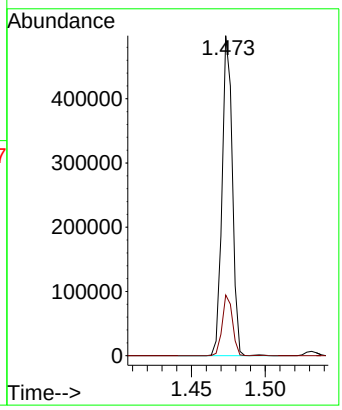


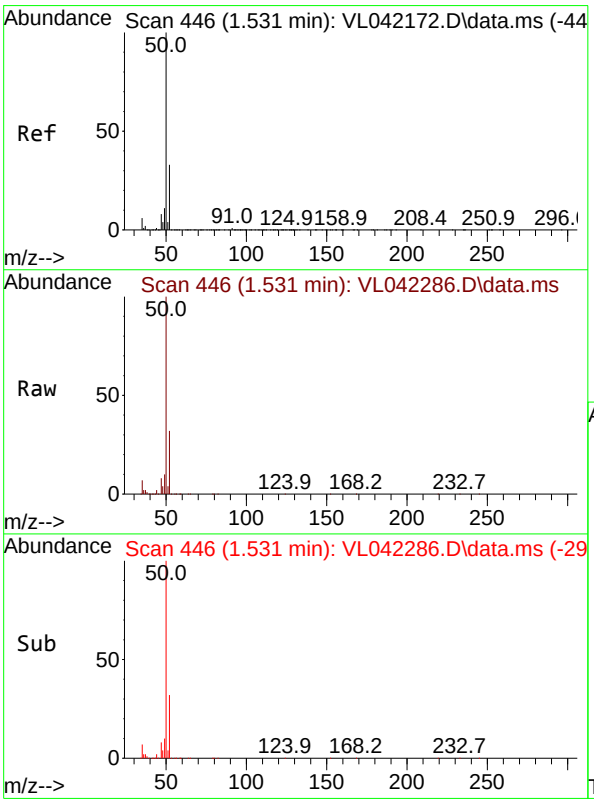

#3
Chlorodifluoromethane
Concen: 10.325 ppbv
RT: 1.473 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 51 Resp: 242368

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 19.0 | 15.0 | 22.6 |

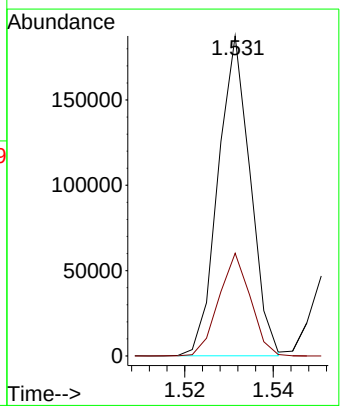


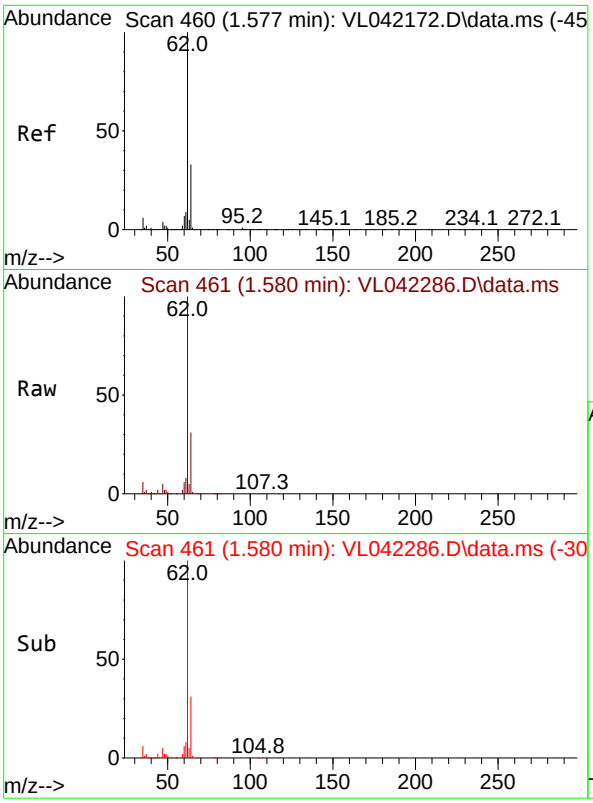




#4
Chloromethane
Concen: 10.054 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 50 Resp: 94421

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.1 | 26.1 | 39.1 |



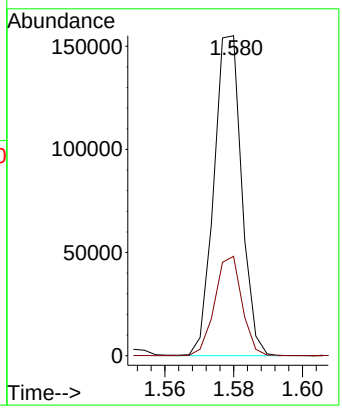


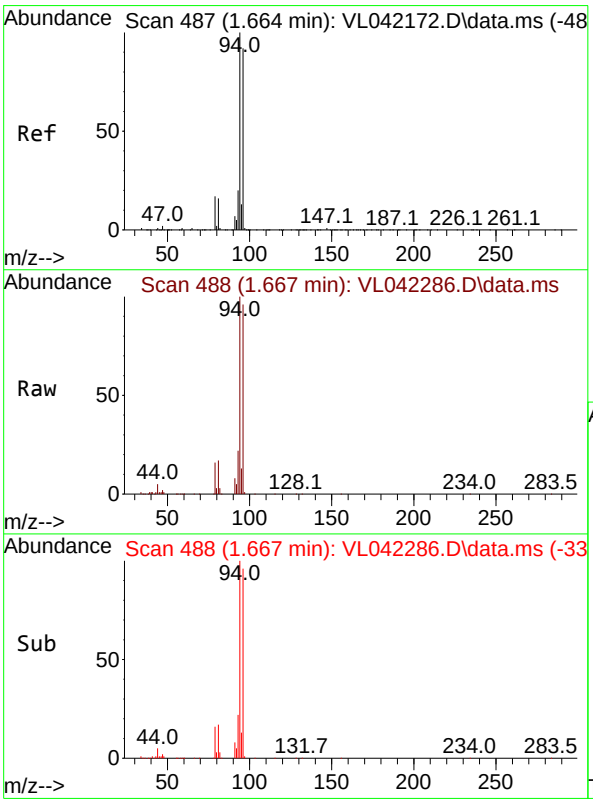

#5
Vinyl Chloride
Concen: 8.750 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 62 Resp: 87077

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.1 | 26.6 | 40.0 |

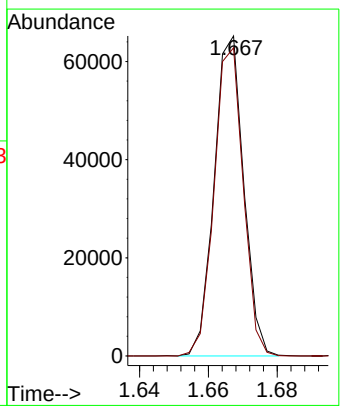


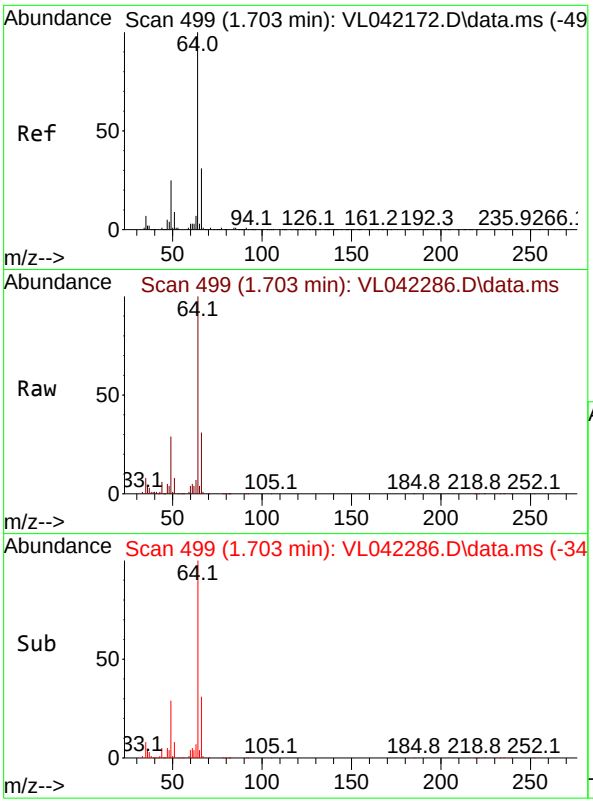




#6
Bromomethane
Concen: 9.136 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 94 Resp: 38883

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 96.3 | 73.1 | 109.7 |



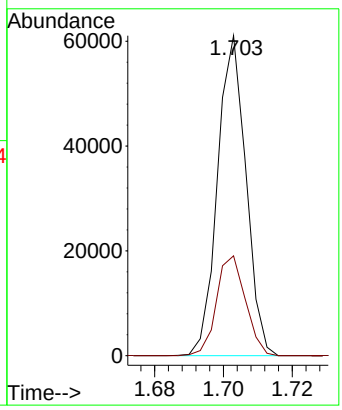


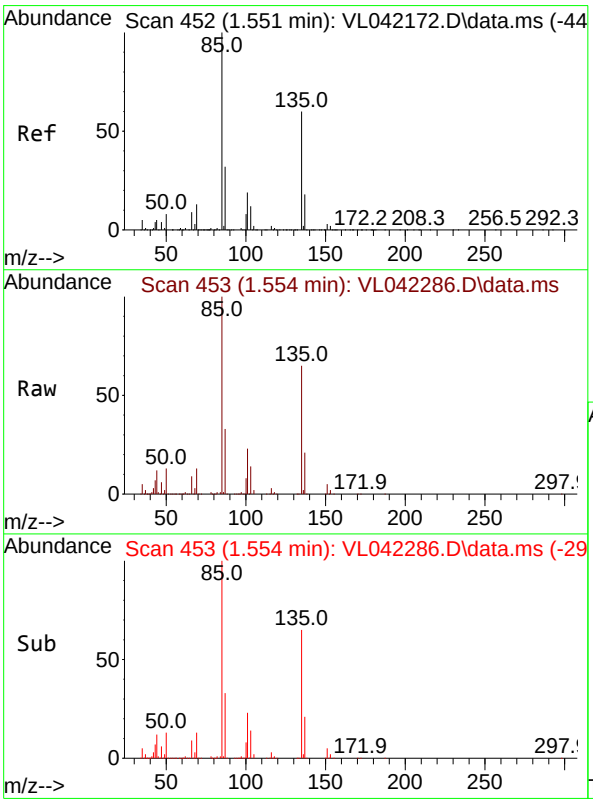

#7
Chloroethane
Concen: 9.290 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 64 Resp: 35019

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 31.2 | 25.2 | 37.8 |

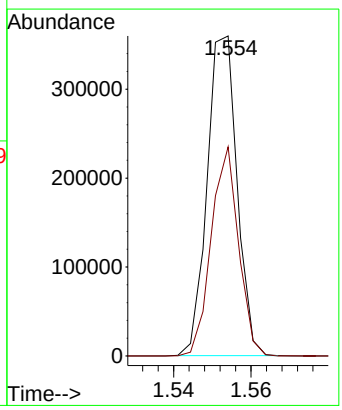


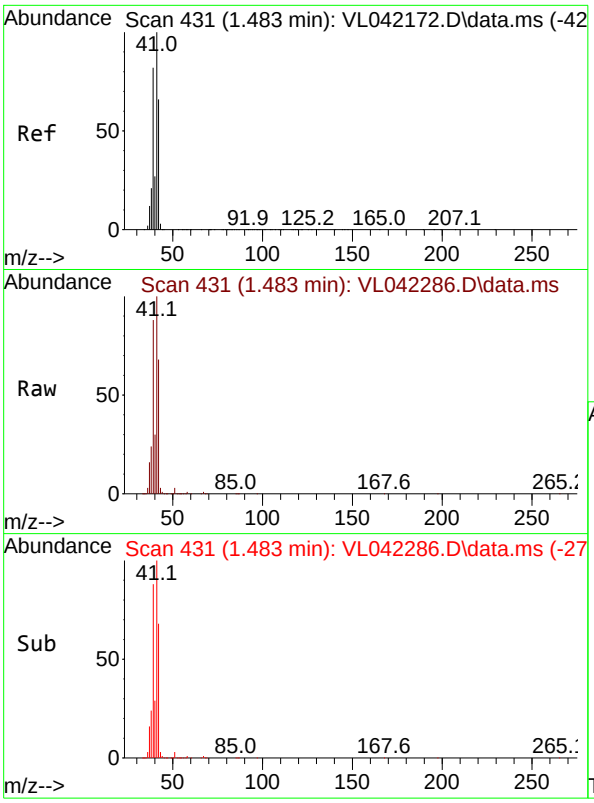




#8
Dichlorotetrafluoroethane
Concen: 9.882 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 85 Resp: 193376

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 59.6 | 52.4 | 78.6 |



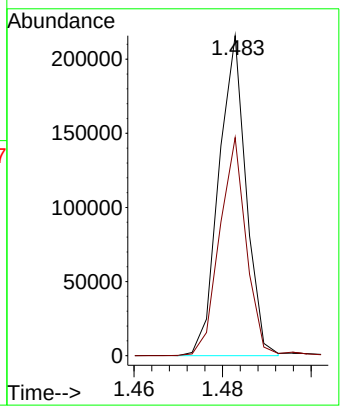


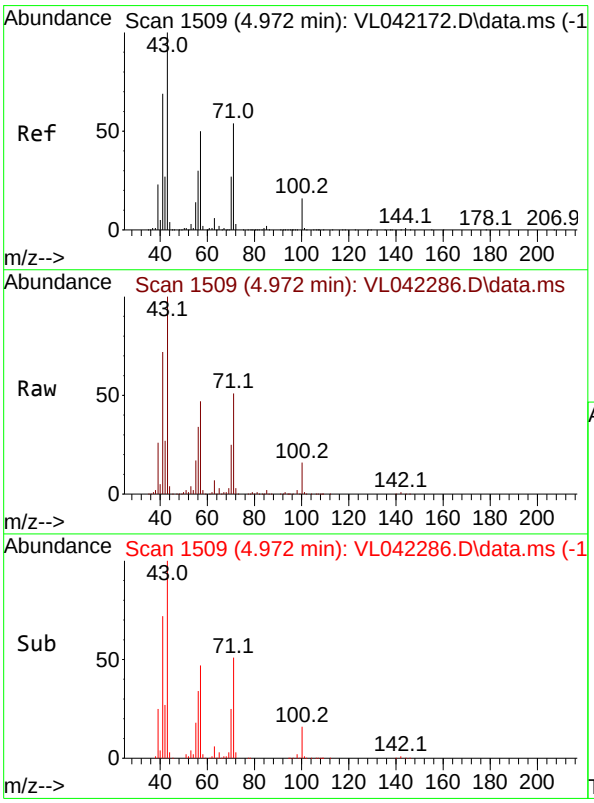

#9
Propene
Concen: 8.573 ppbv
RT: 1.483 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 41 Resp: 92247

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 67.9 | 55.4 | 83.2 |

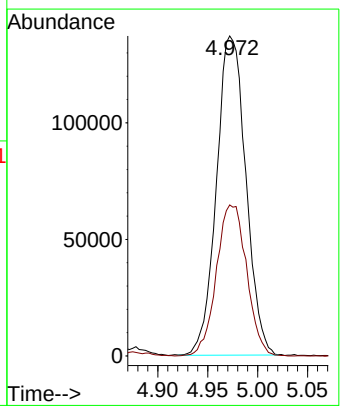


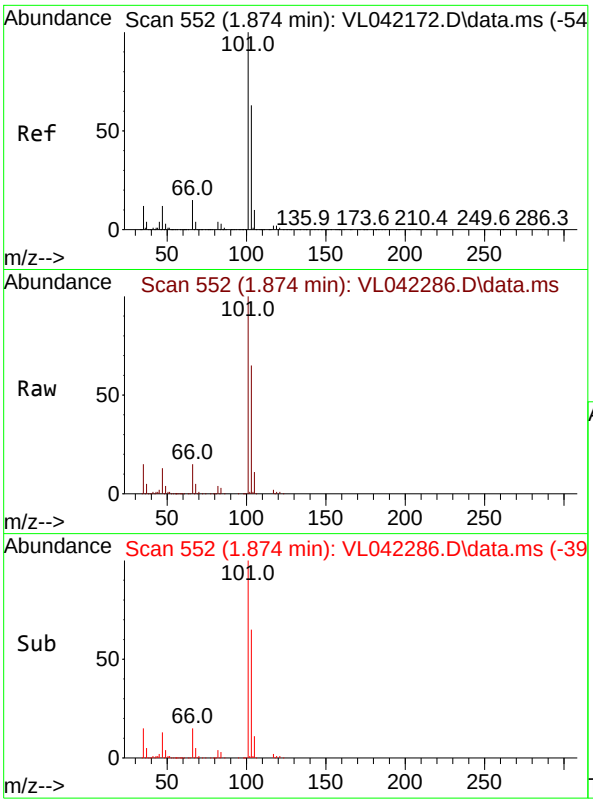




#10
Heptane
Concen: 9.789 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 43 Resp: 280156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 48.8 | 39.4 | 59.2 |



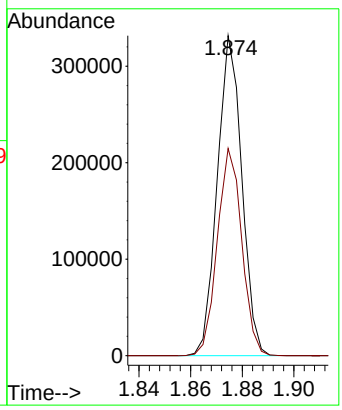


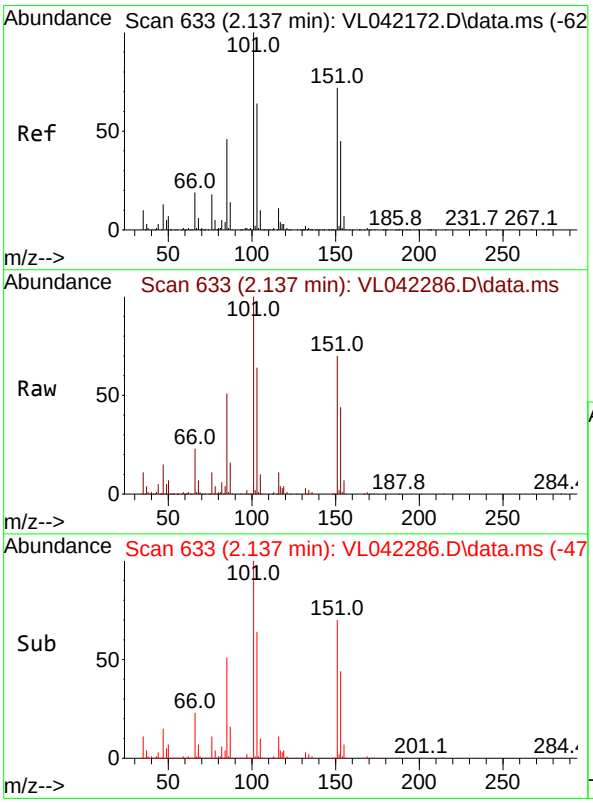

#11
Trichlorofluoromethane
Concen: 9.783 ppbv
RT: 1.874 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:101 Resp: 218729

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.8 | 50.2 | 75.2 |

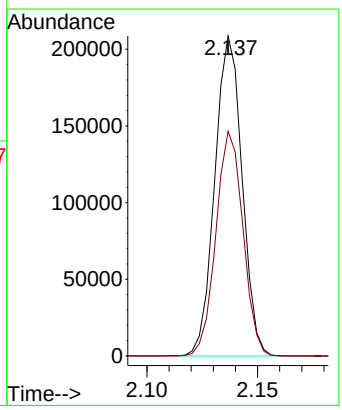


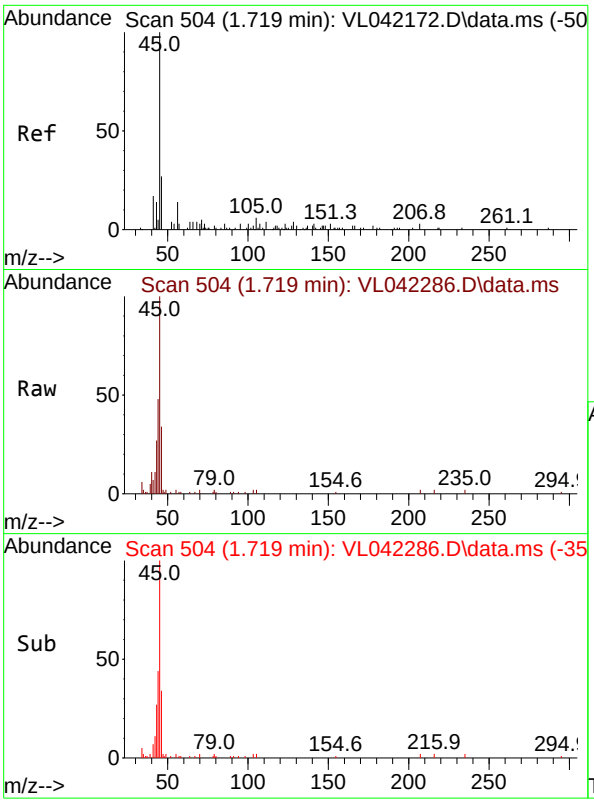




#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.726 ppbv
RT: 2.137 min Scan# 633
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:101 Resp: 178752

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 69.7 | 57.1 | 85.7 |



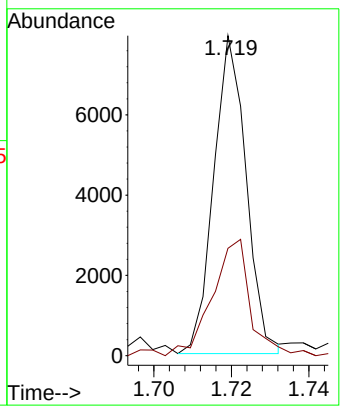


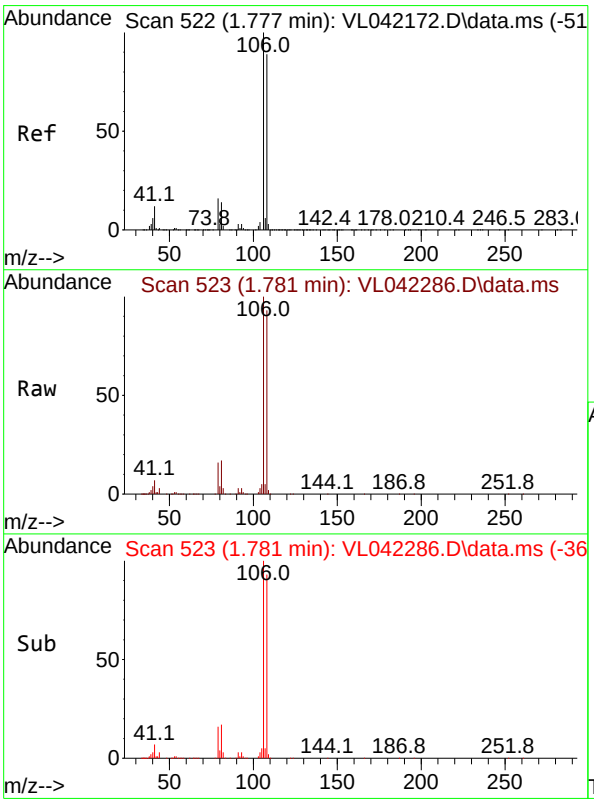

#13
Ethanol
Concen: 4.530 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 45 Resp: 4608

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 44.9 | 20.2 | 80.8 |

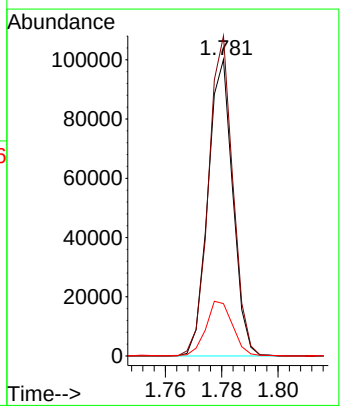


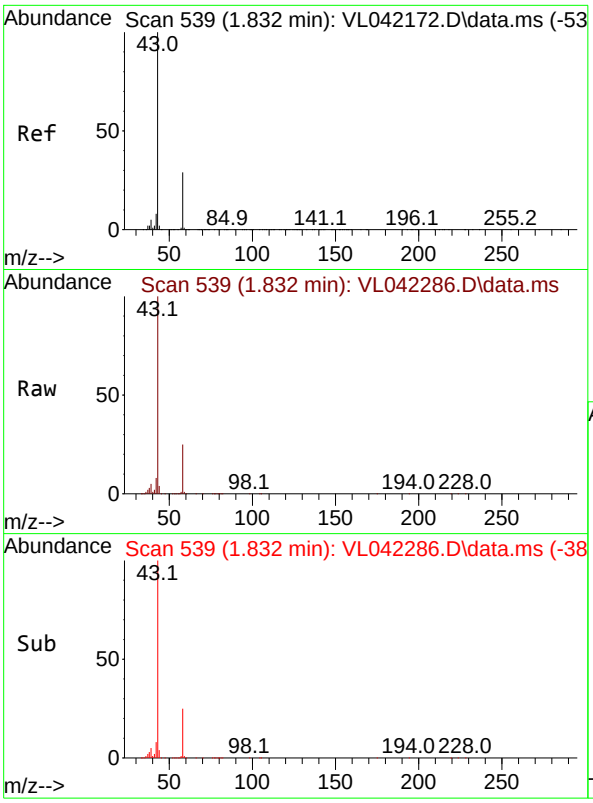




#14
Bromoethene
Concen: 8.693 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:108 Resp: 61204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 106 | 105.7 | 86.8 | 130.2 |
| 79 | 20.3 | 15.0 | 22.6 |



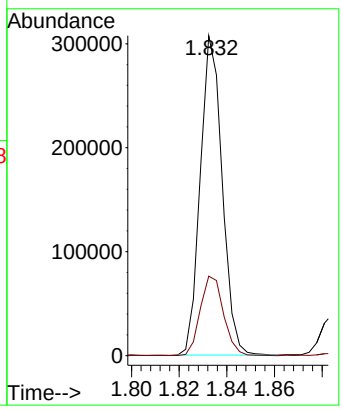


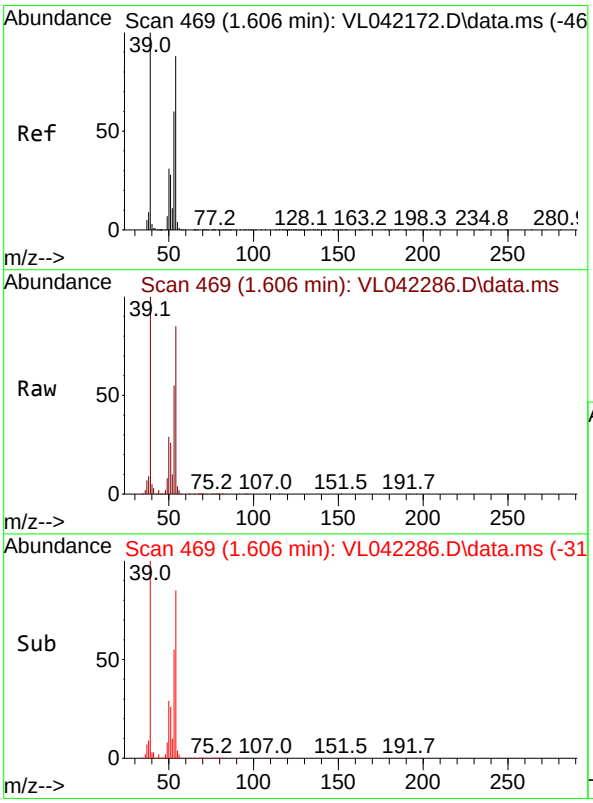

#15
Acetone
Concen: 9.008 ppbv
RT: 1.832 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 43 Resp: 196063

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 26.8 | 23.2 | 34.8 |

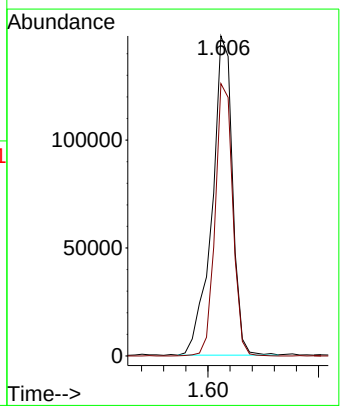


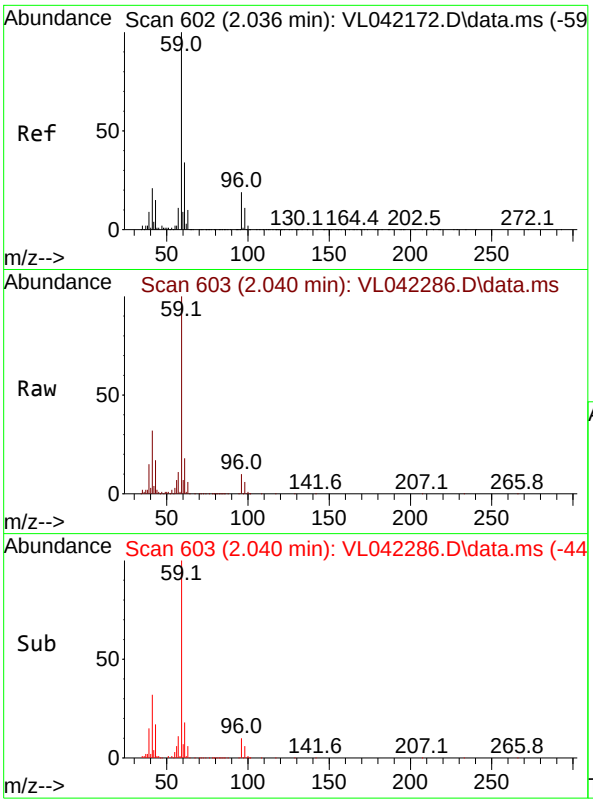




#16
1,3-Butadiene
Concen: 8.931 ppbv
RT: 1.606 min Scan# 469
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 39 Resp: 94932

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 73.9 | 60.7 | 91.1 |



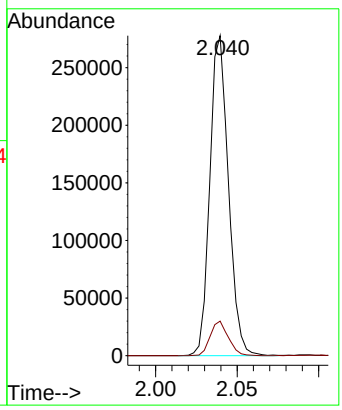


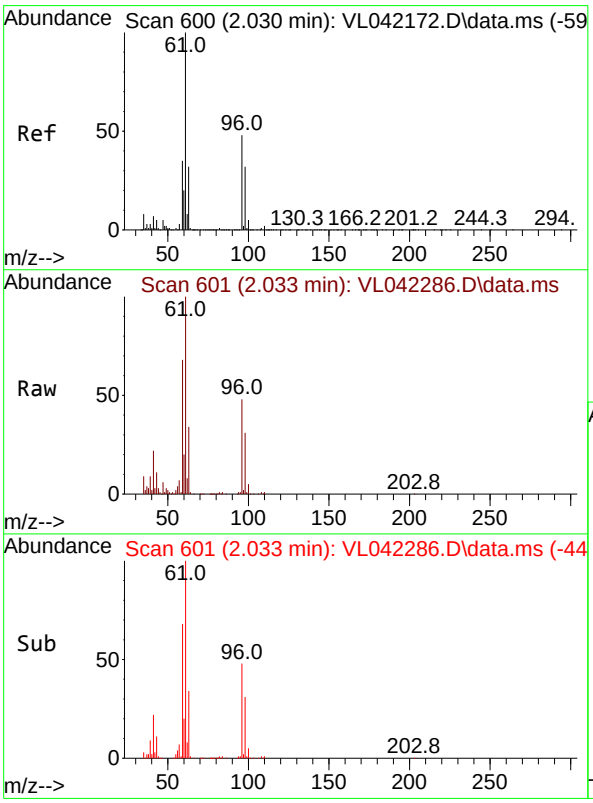

#17
tert-Butyl alcohol
Concen: 8.122 ppbv
RT: 2.040 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 59 Resp: 220187

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.5 | 8.9 | 13.3 |

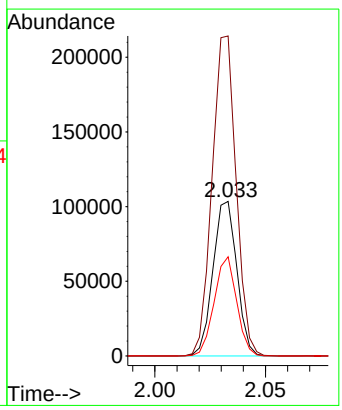


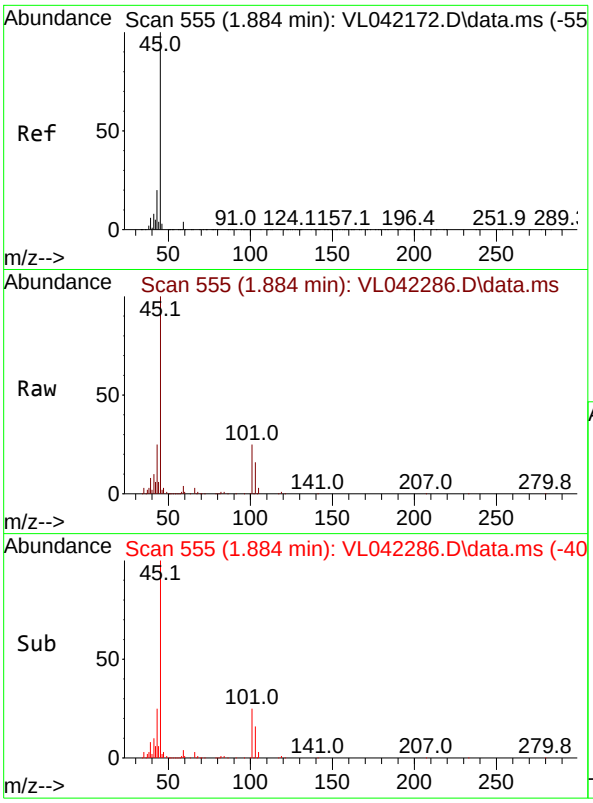




#18
1,1-Dichloroethene
Concen: 9.042 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 96 Resp: 77686

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 207.1 | 167.6 | 251.4 |
| 98 | 64.2 | 53.5 | 80.3 |



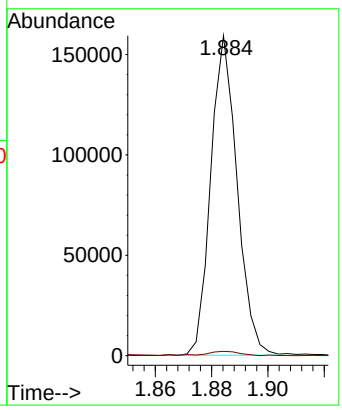


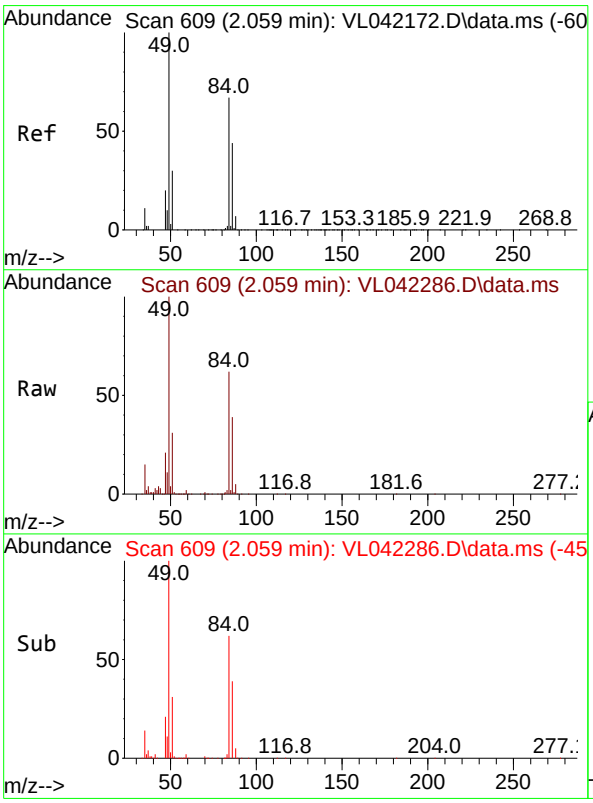

#19
Isopropyl Alcohol
Concen: 8.415 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 45 Resp: 103348

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 50.7 | 36.9 | 55.3 |

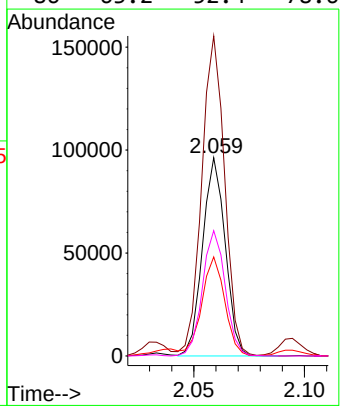


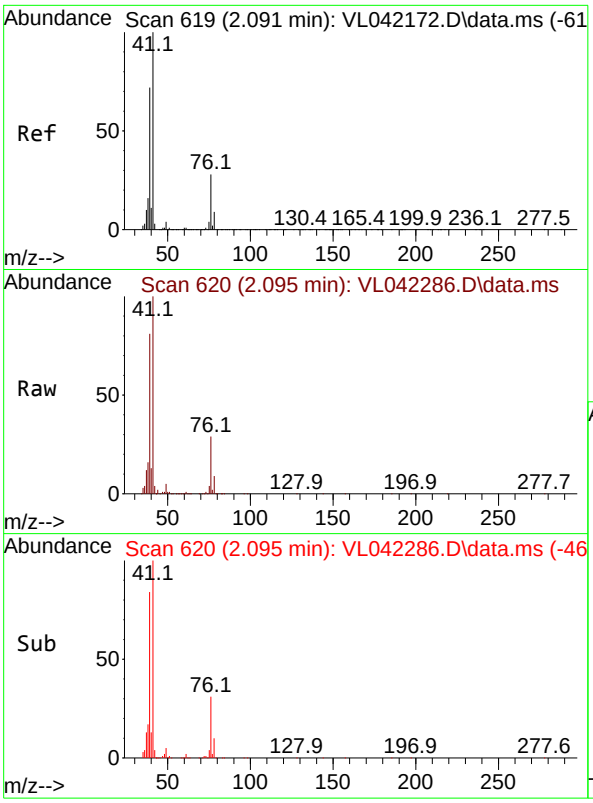




#20
Methylene Chloride
Concen: 8.461 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 84 Resp: 68588

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 159.3 | 120.2 | 180.4 |
| 51 | 48.1 | 37.4 | 56.0 |
| 86 | 63.2 | 52.4 | 78.6 |



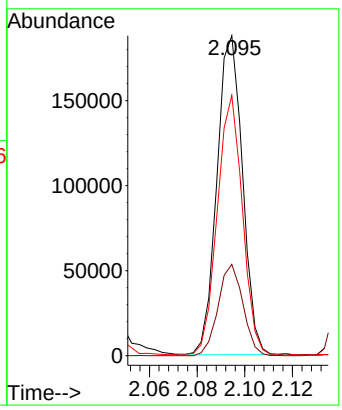


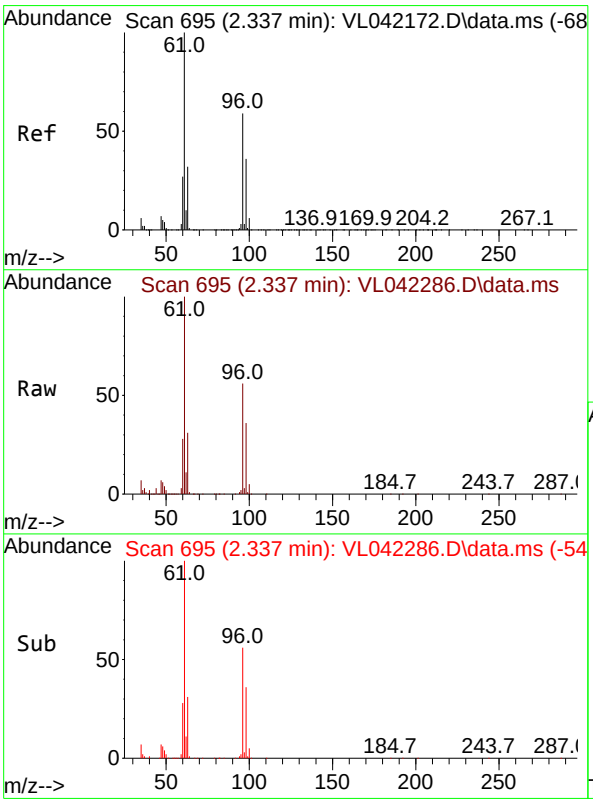

#21
Allyl Chloride
Concen: 9.118 ppbv
RT: 2.095 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 41 Resp: 139965

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 27.7 | 24.1 | 36.1 |
| 39 | 79.7 | 61.1 | 91.7 |

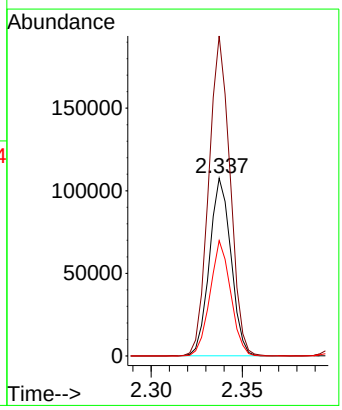


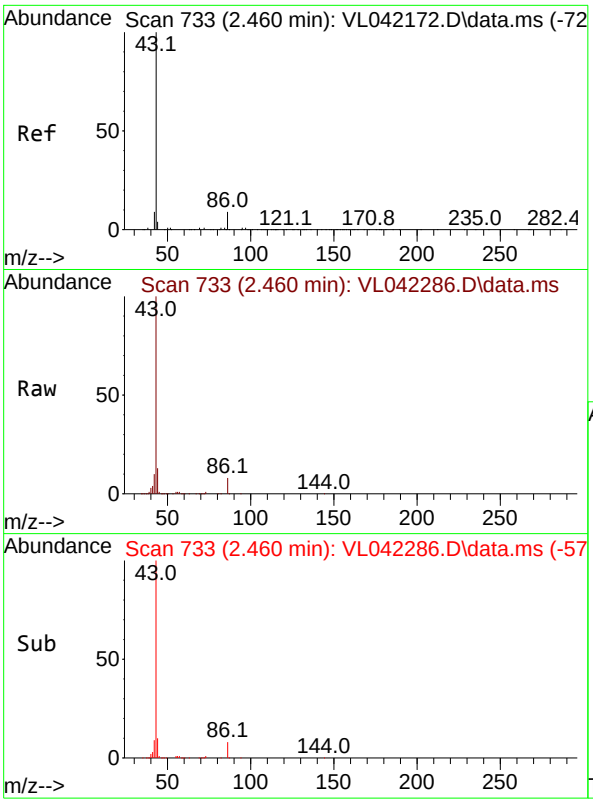




#22
trans-1,2-Dichloroethene
Concen: 8.896 ppbv
RT: 2.337 min Scan# 695
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 96 Resp: 88334

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 180.1 | 136.6 | 204.8 |
| 98 | 64.9 | 49.4 | 74.2 |



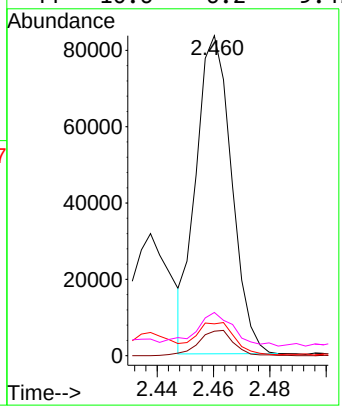


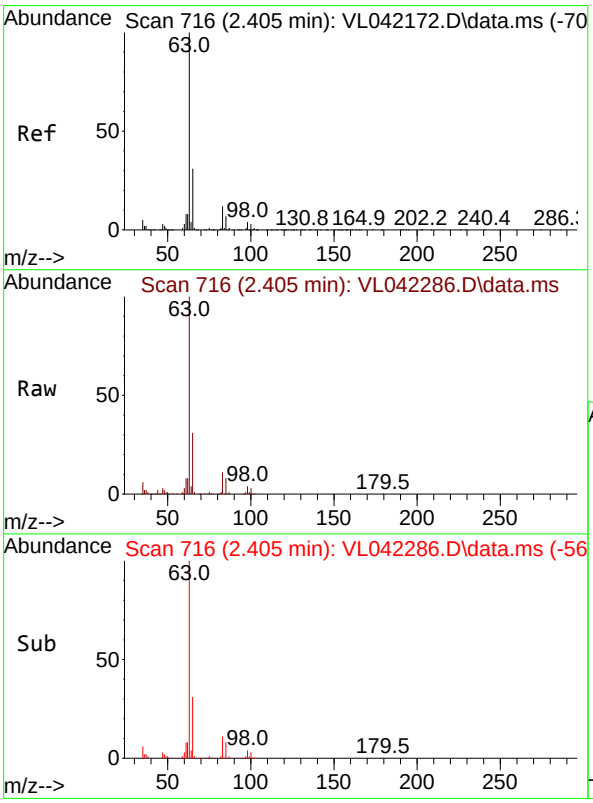

#23
Vinyl Acetate
Concen: 7.766 ppbv
RT: 2.460 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 43 Resp: 73162

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 7.6 | 5.5 | 8.3 |
| 42 | 9.7 | 8.6 | 13.0 |
| 44 | 10.6 | 6.2 | 9.4# |

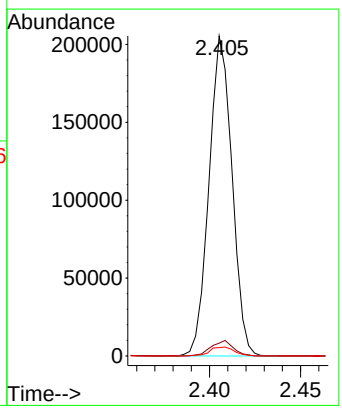


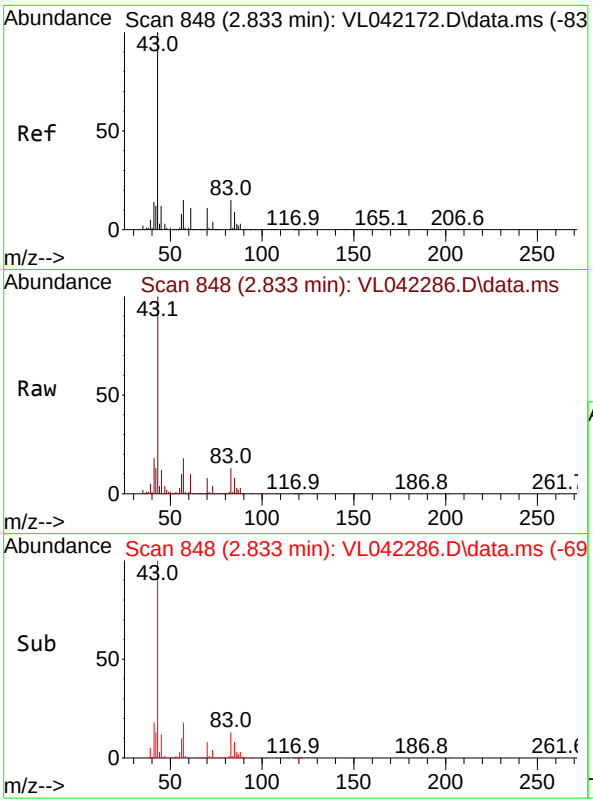




#24
1,1-Dichloroethane
Concen: 9.801 ppbv
RT: 2.405 min Scan# 716
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 63 Resp: 180404

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 4.0 | 2.3 | 6.8 |
| 100 | 2.6 | 1.6 | 4.7 |



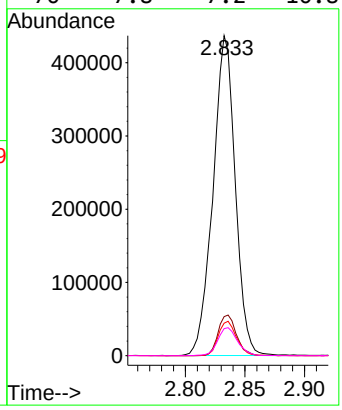


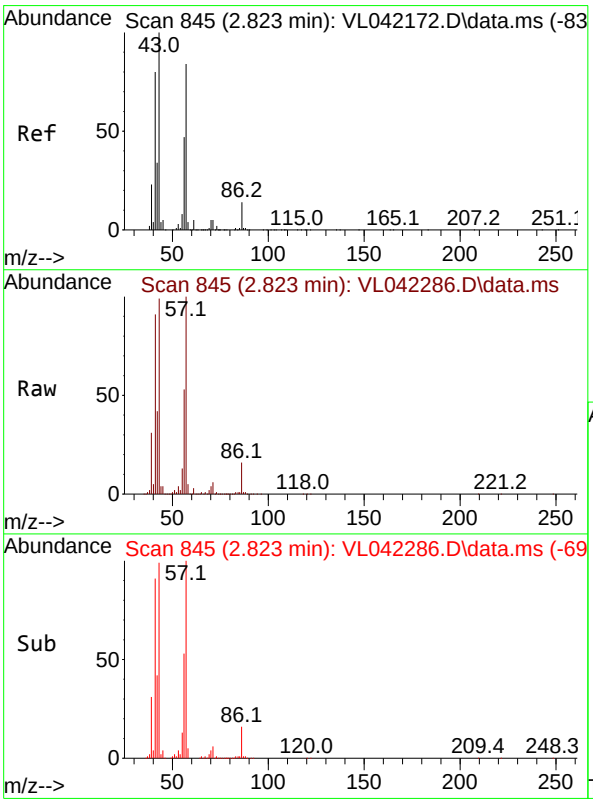

#25
Ethyl Acetate
Concen: 10.039 ppbv
RT: 2.833 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 43 Resp: 567125

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 10.5 | 8.2 | 12.2 |
| 61 | 8.9 | 7.3 | 10.9 |
| 70 | 7.8 | 7.2 | 10.8 |

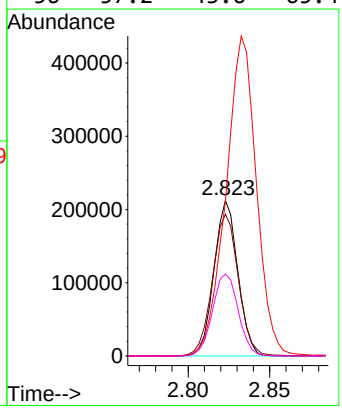


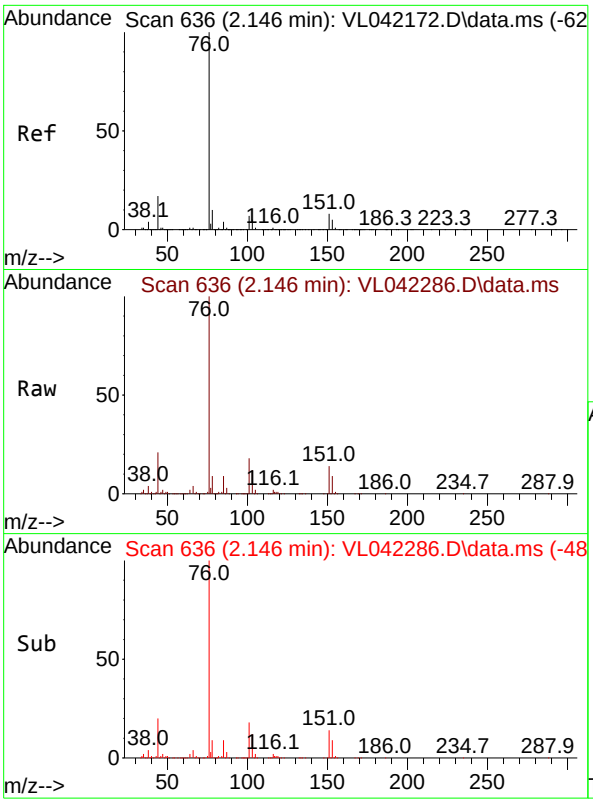




#26
Hexane
Concen: 9.848 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 57 Resp: 214891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 99.1 | 76.6 | 114.8 |
| 43 | 264.9 | 207.8 | 311.8 |
| 56 | 57.2 | 43.6 | 65.4 |



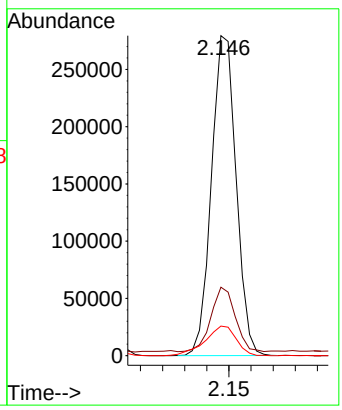


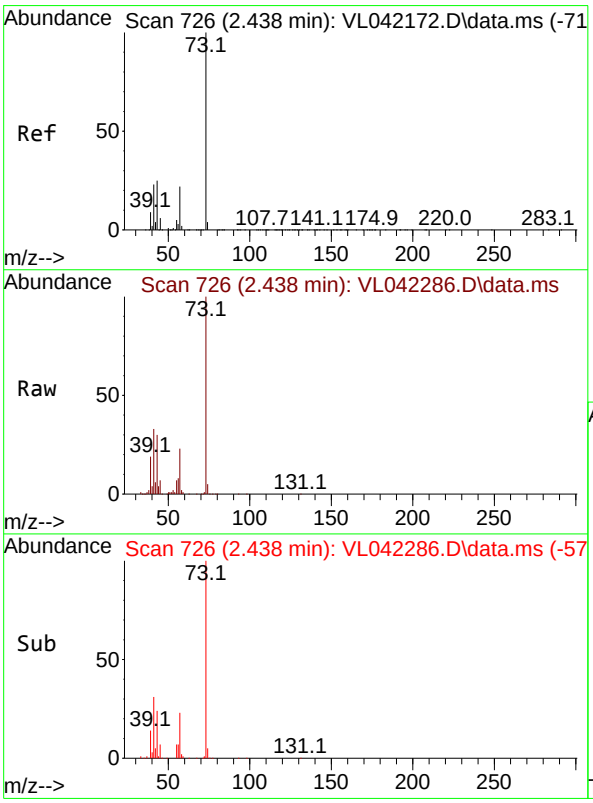

#27
Carbon Disulfide
Concen: 9.253 ppbv
RT: 2.146 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 76 Resp: 216499

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 20.6 | 14.7 | 22.1 |
| 78 | 11.8 | 9.3 | 13.9 |

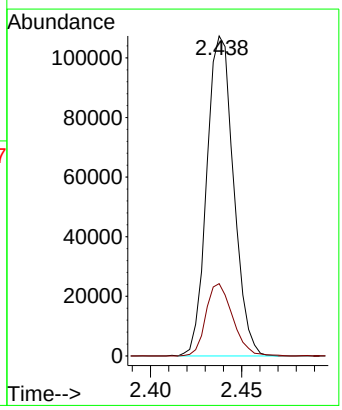


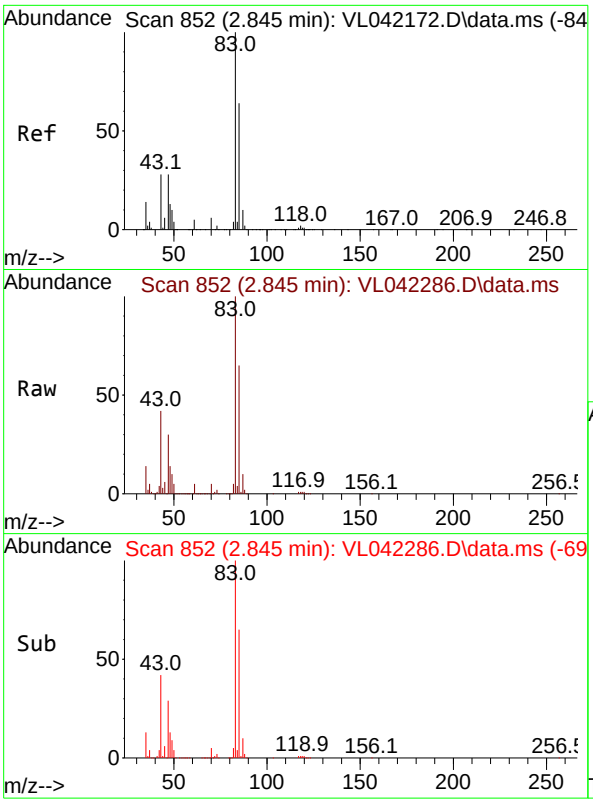




#28
Methyl tert-Butyl Ether
Concen: 8.077 ppbv
RT: 2.438 min Scan# 726
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 73 Resp: 109726

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.6 | 20.5 | 30.7 |



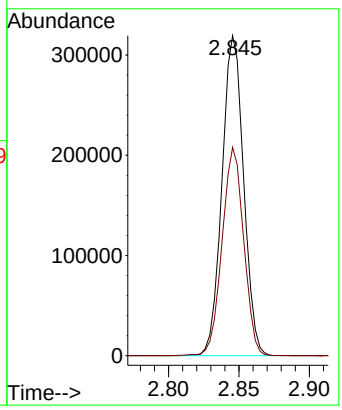


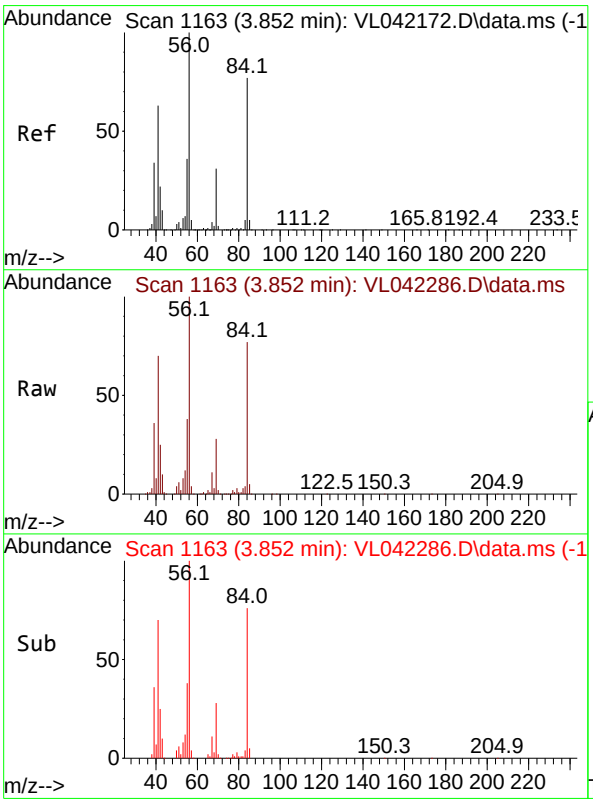

#29
Chloroform
Concen: 10.675 ppbv
RT: 2.845 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 83 Resp: 340889

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.0 | 51.4 | 77.2 |

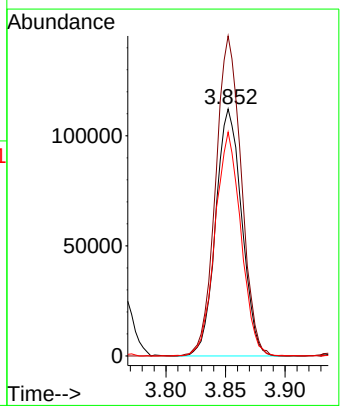


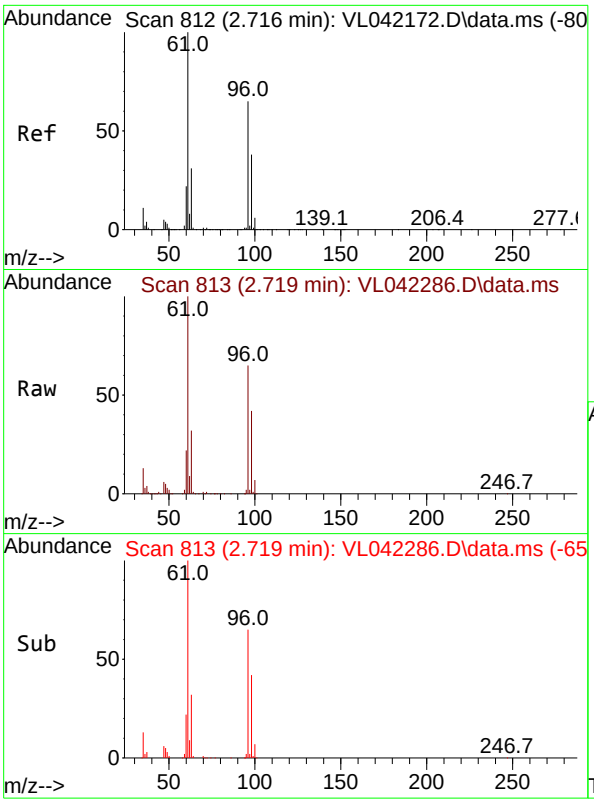




#30
Cyclohexane
Concen: 8.991 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 84 Resp: 170359

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 127.8 | 102.8 | 154.2 |
| 41 | 90.1 | 66.5 | 99.7 |



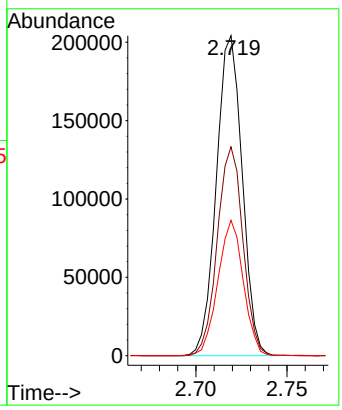


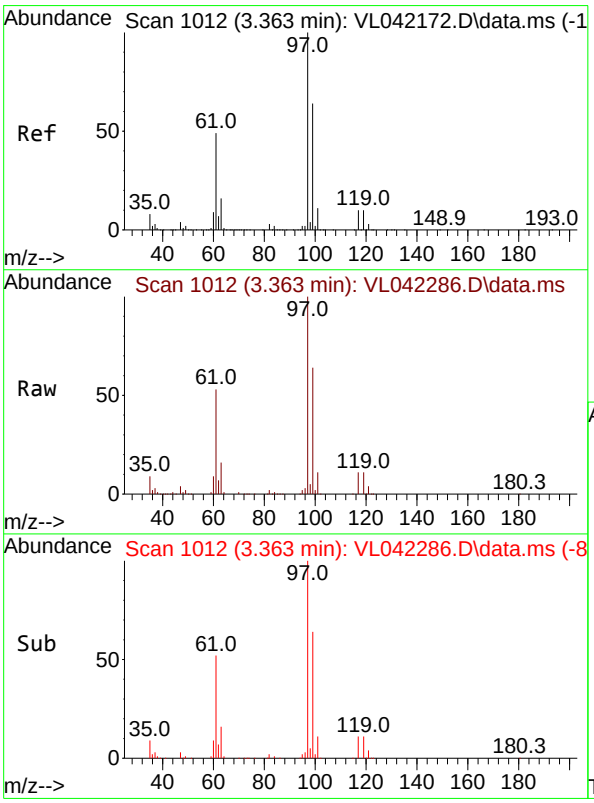

#31
cis-1,2-Dichloroethene
Concen: 9.110 ppbv
RT: 2.719 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 61 Resp: 201796

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 65.3 | 51.8 | 77.8 |
| 98 | 42.3 | 30.6 | 46.0 |

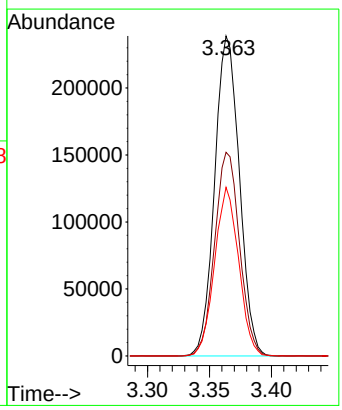


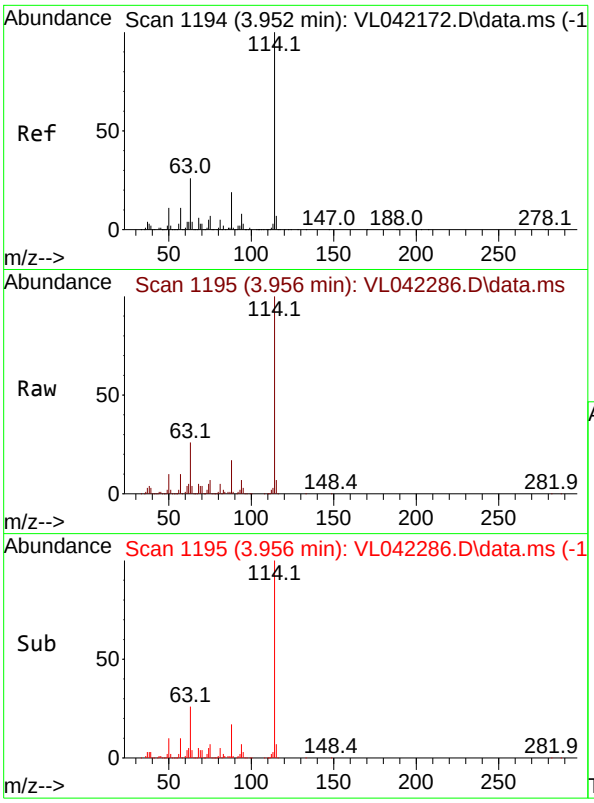




#32
1,1,1-Trichloroethane
Concen: 9.088 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 97 Resp: 332252

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.1 | 51.5 | 77.3 |
| 61 | 51.3 | 38.7 | 58.1 |



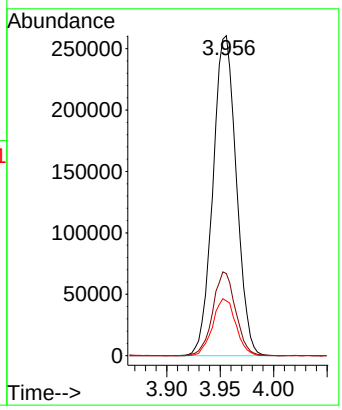


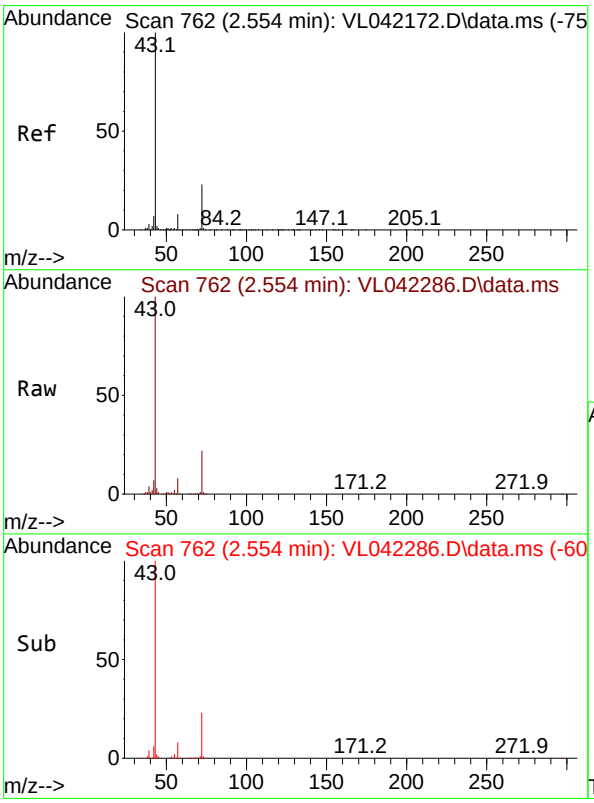

#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:114 Resp: 397176

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.6 | 20.7 | 31.1 |
| 88 | 17.6 | 15.0 | 22.4 |

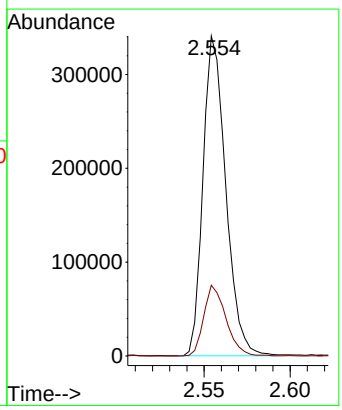


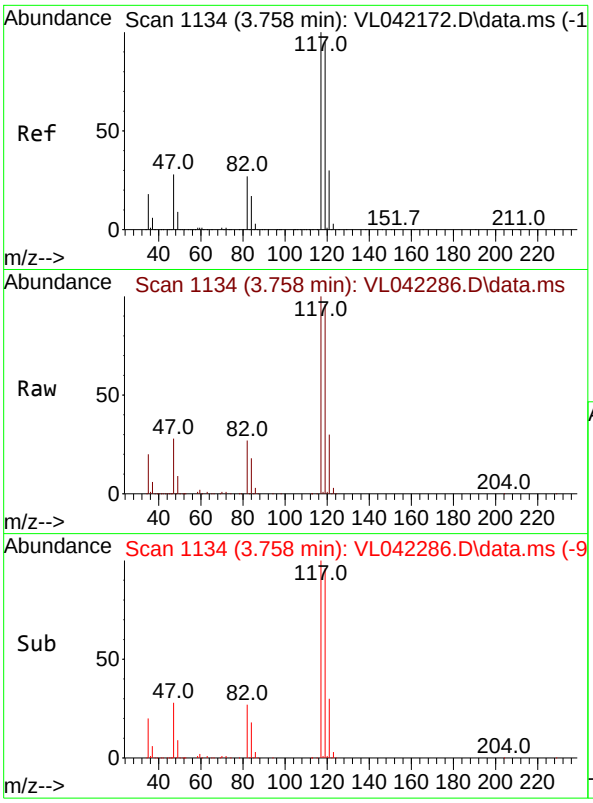




#34
2-Butanone
Concen: 10.886 ppbv
RT: 2.554 min Scan# 762
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 43 Resp: 313515

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 21.7 | 18.2 | 27.2 |



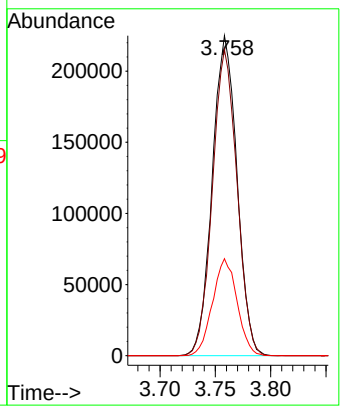


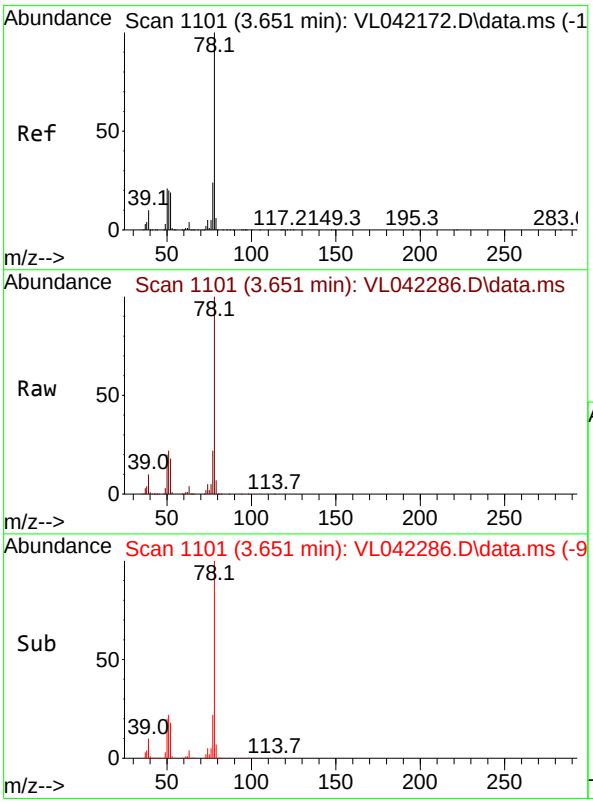

#35
Carbon Tetrachloride
Concen: 11.256 ppbv
RT: 3.758 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:117 Resp: 349240

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 95.6 | 76.2 | 114.2 |
| 121 | 30.3 | 24.2 | 36.4 |

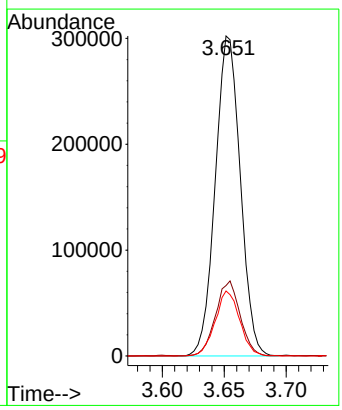


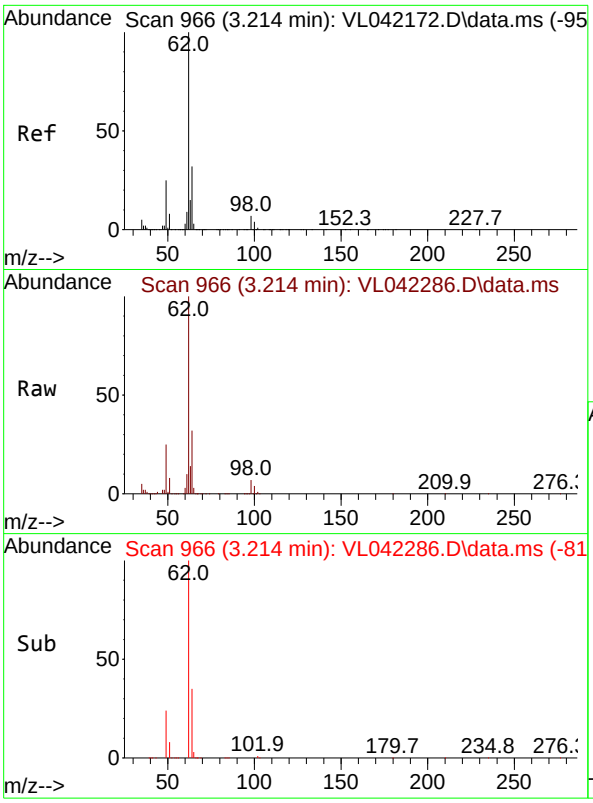




#36
Benzene
Concen: 10.802 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 78 Resp: 425324

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 21.9 | 19.1 | 28.7 |
| 50 | 20.3 | 16.6 | 24.8 |



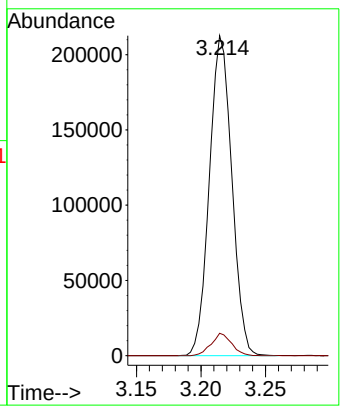


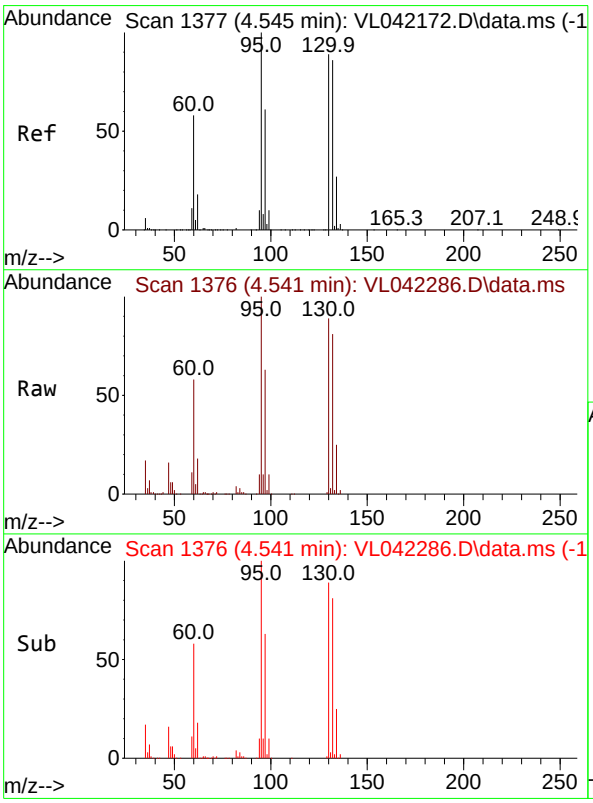

#37
1,2-Dichloroethane
Concen: 11.391 ppbv
RT: 3.214 min Scan# 9
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 62 Resp: 256791

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 6.3 | 5.4 | 8.2 |

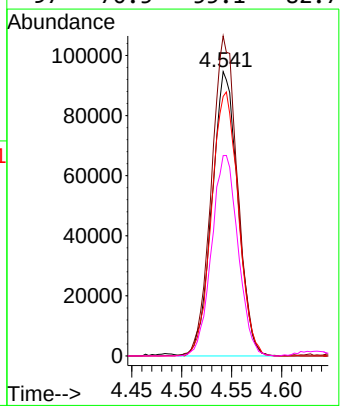


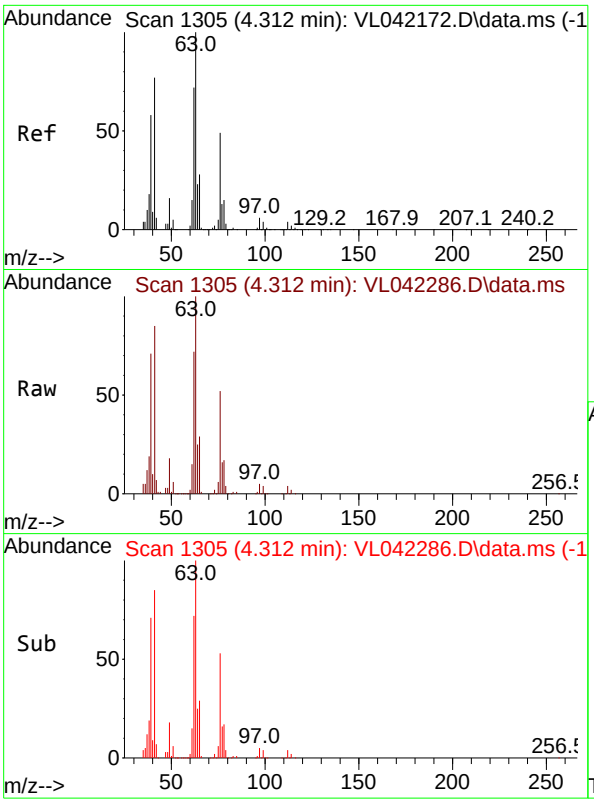




#38
Trichloroethene
Concen: 10.370 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. -0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:130 Resp: 170362

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 112.5 | 89.8 | 134.8 |
| 132 | 91.3 | 77.4 | 116.2 |
| 97 | 70.5 | 55.1 | 82.7 |



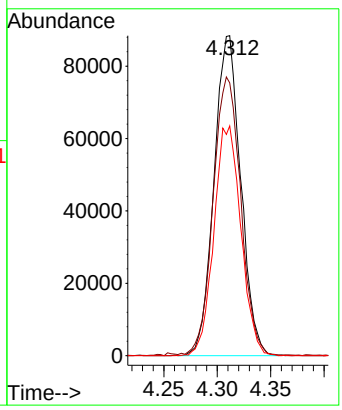


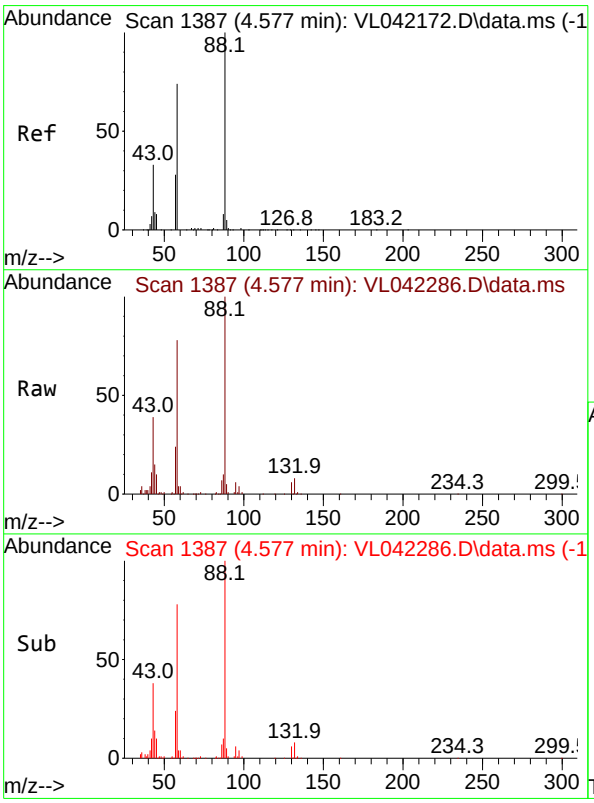

#39
1,2-Dichloropropane
Concen: 10.710 ppbv
RT: 4.312 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 63 Resp: 153583

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 85.0 | 61.7 | 92.5 |
| 62 | 71.8 | 57.6 | 86.4 |

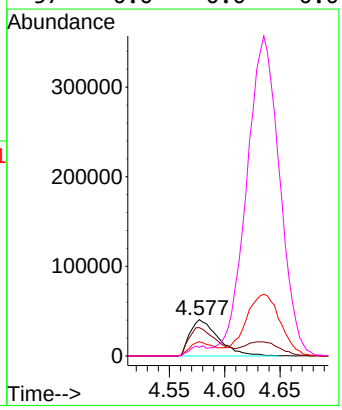


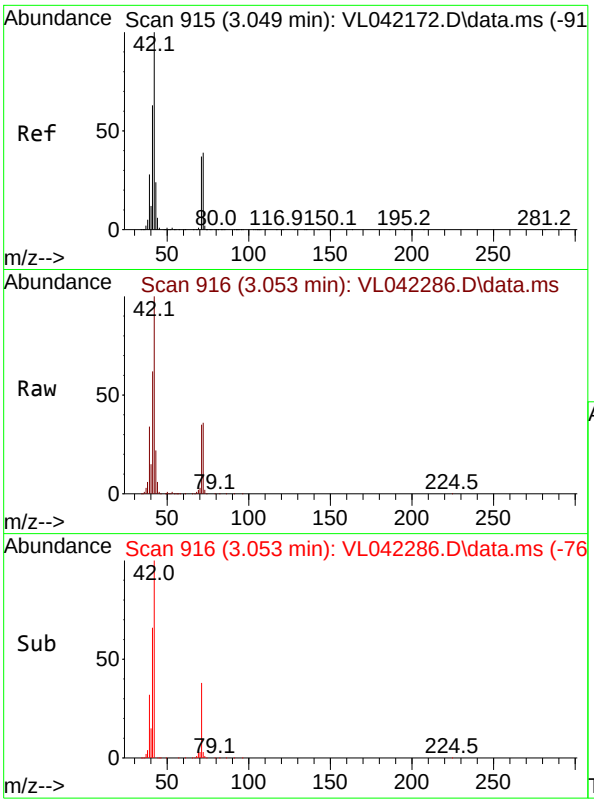




#40
1,4-Dioxane
Concen: 9.539 ppbv
RT: 4.577 min Scan# 1387
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 88 Resp: 72604

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 75.1 | 62.7 | 94.1 |
| 43 | 33.8 | 23.0 | 34.4 |
| 57 | 0.0 | 0.0 | 0.0 |



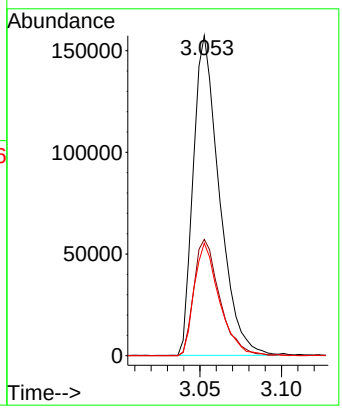


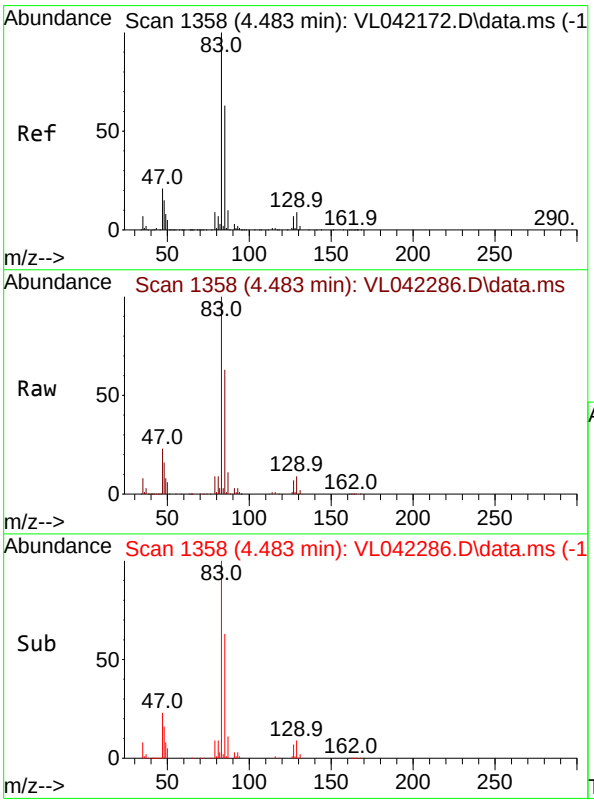

#41
Tetrahydrofuran
Concen: 10.556 ppbv
RT: 3.053 min Scan# 91
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 42 Resp: 175060

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 36.2 | 31.4 | 47.0 |
| 71 | 34.2 | 30.2 | 45.4 |

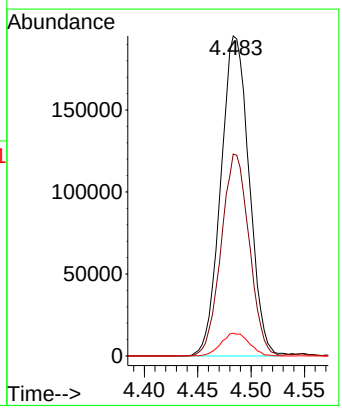


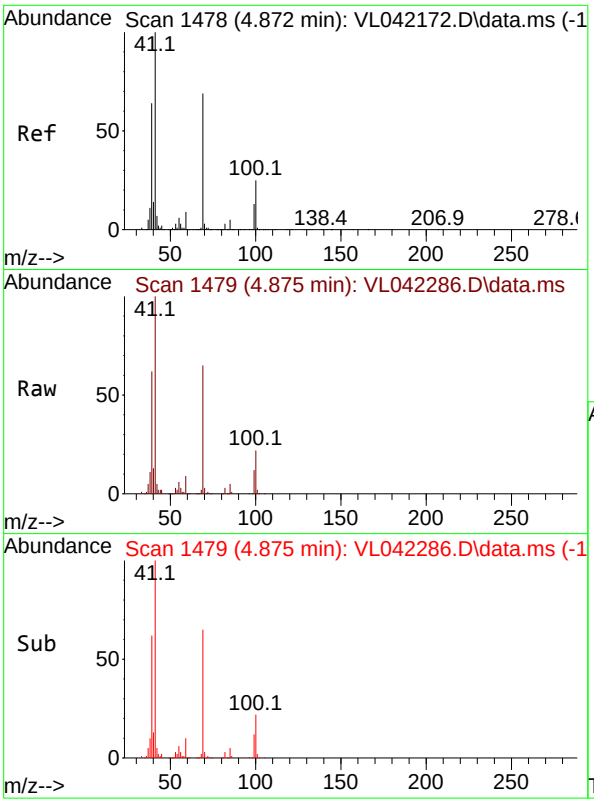




#42
Bromodichloromethane
Concen: 11.551 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 83 Resp: 358962

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.1 | 50.5 | 75.7 |
| 127 | 7.1 | 5.9 | 8.9 |



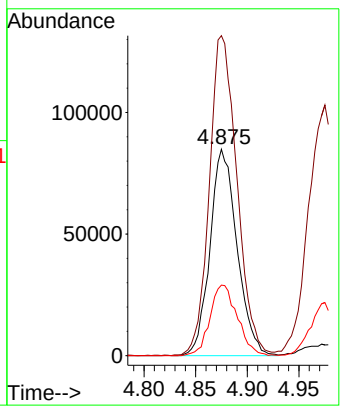


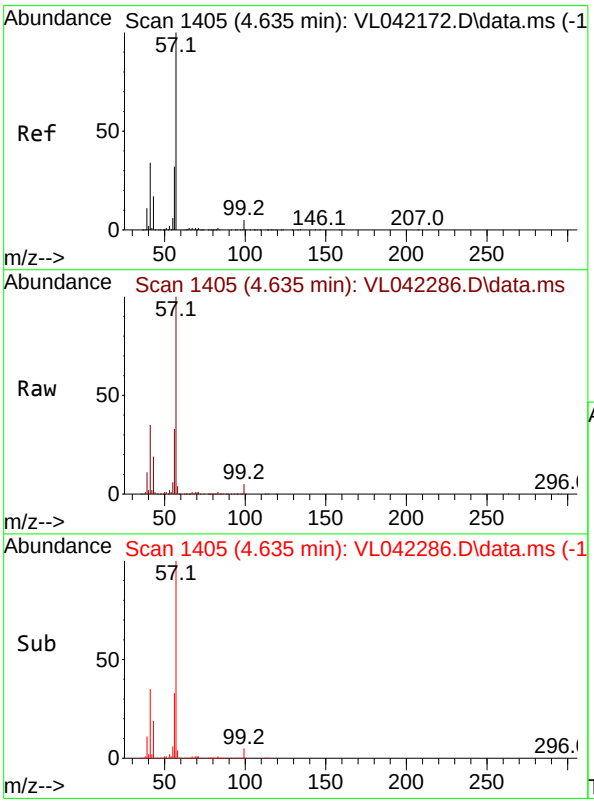

#43
Methyl Methacrylate
Concen: 9.297 ppbv
RT: 4.875 min Scan# 14
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 69 Resp: 154975

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 158.4 | 123.8 | 185.6 |
| 100 | 34.5 | 28.4 | 42.6 |

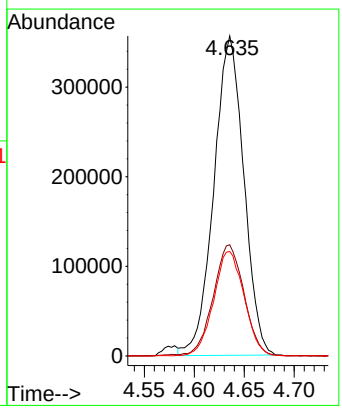


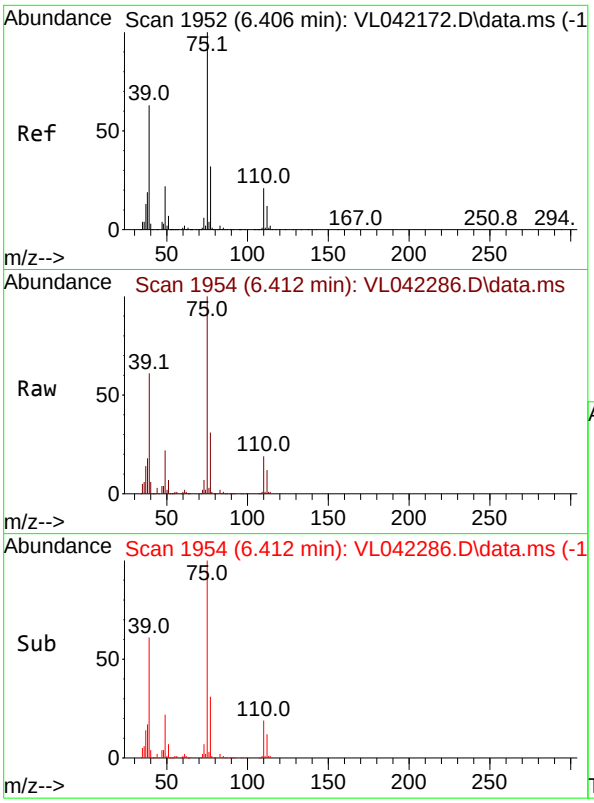




#44
2,2,4-Trimethylpentane
Concen: 11.157 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 57 Resp: 742388

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 36.2 | 26.8 | 40.2 |
| 56 | 33.5 | 25.6 | 38.4 |



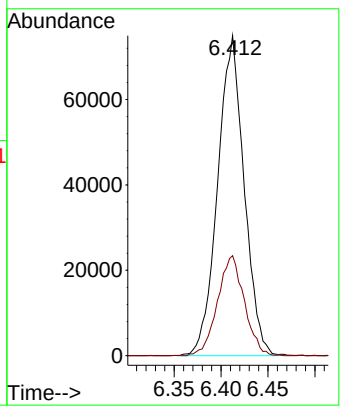


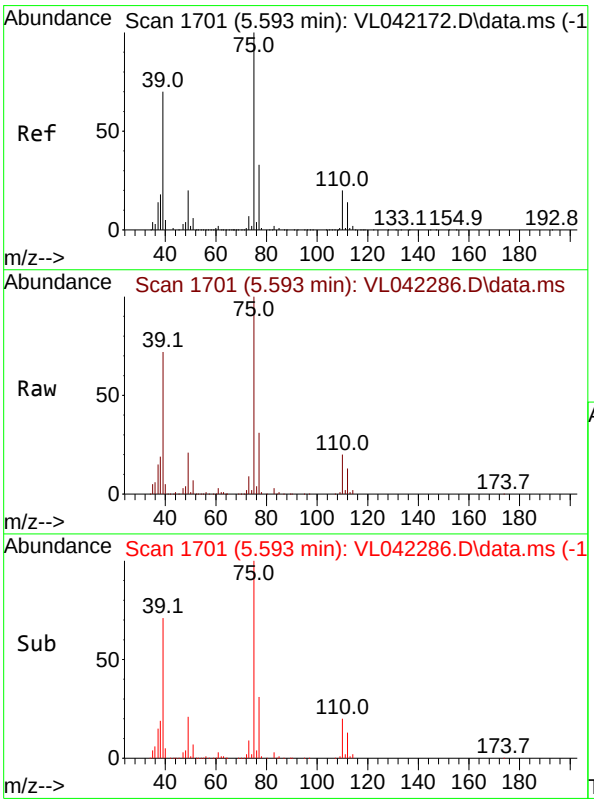

#45
t-1,3-Dichloropropene
Concen: 8.231 ppbv
RT: 6.412 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 75 Resp: 147204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.2 | 26.0 | 39.0 |

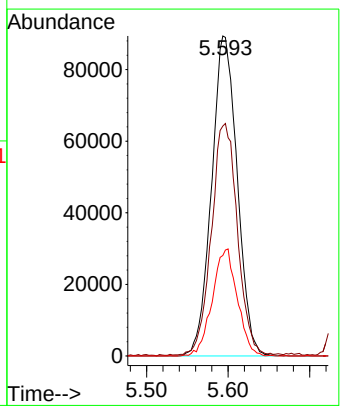


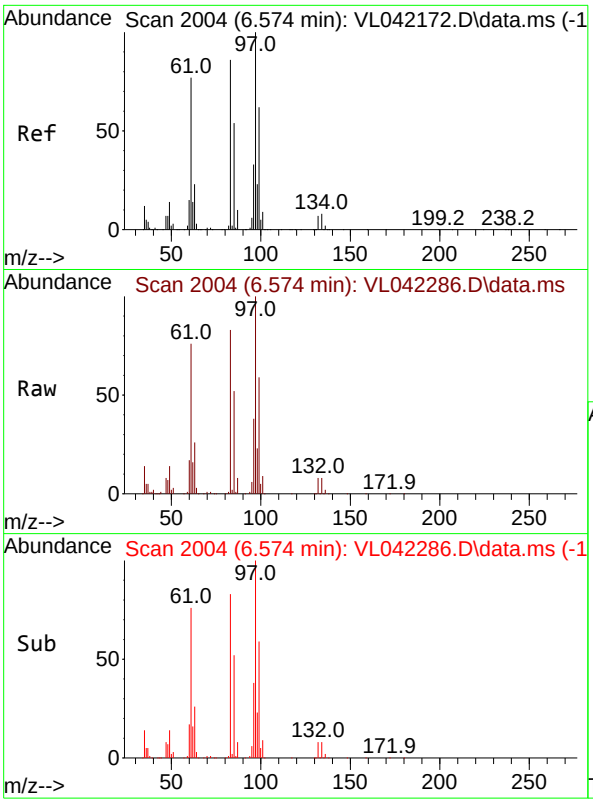




#46
cis-1,3-Dichloropropene
Concen: 8.932 ppbv
RT: 5.593 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 75 Resp: 195802

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 39 | 71.5 | 55.8 | 83.6 |
| 77 | 31.4 | 26.0 | 39.0 |



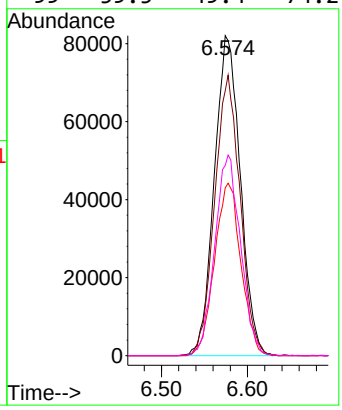


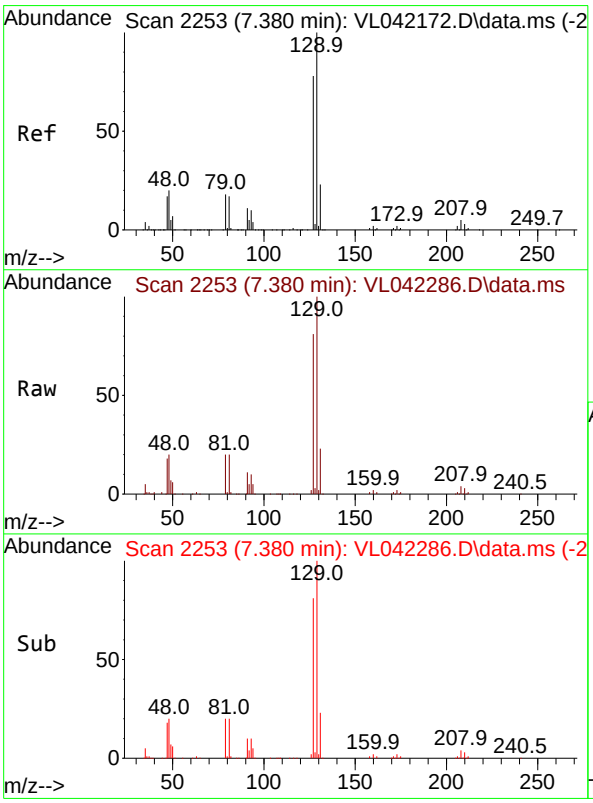

#47
1,1,2-Trichloroethane
Concen: 11.369 ppbv
RT: 6.574 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 97 Resp: 172343

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 82.8 | 69.2 | 103.8 |
| 85 | 52.5 | 43.1 | 64.7 |
| 99 | 59.5 | 49.4 | 74.2 |

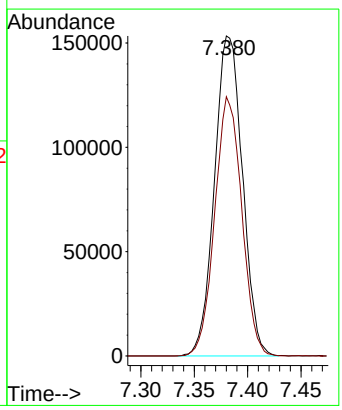


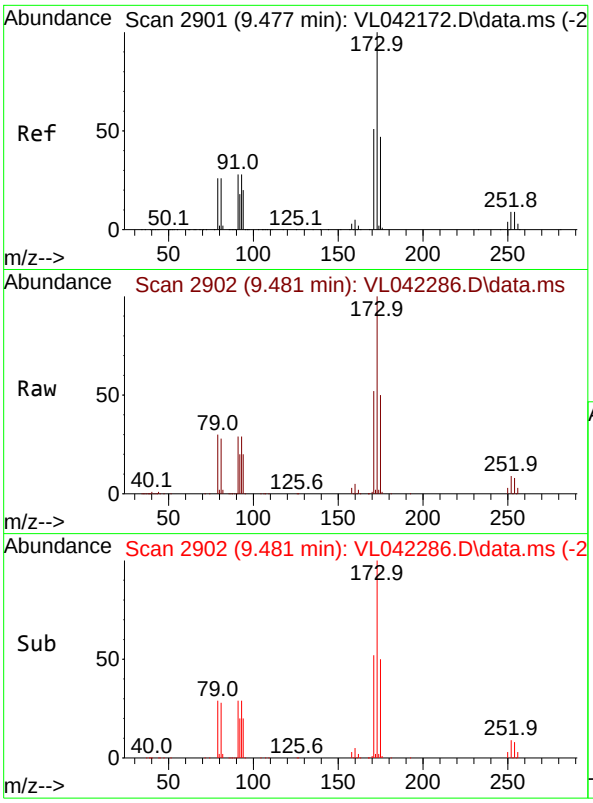




#48
Dibromochloromethane
Concen: 10.907 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:129 Resp: 280199

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.2 | 39.1 | 117.2 |



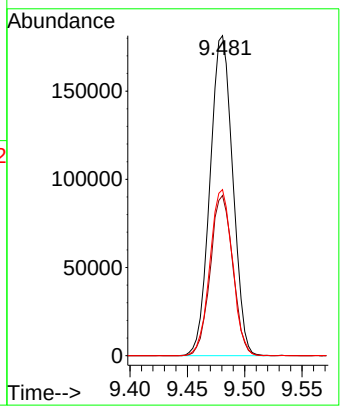


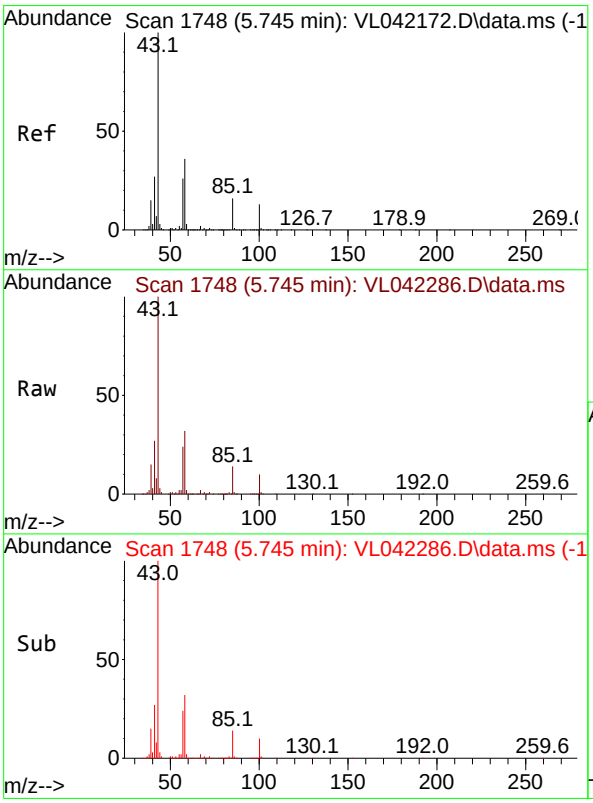

#49
Bromoform
Concen: 10.849 ppbv
RT: 9.481 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:173 Resp: 250227

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.5 | 38.6 | 57.8 |
| 171 | 51.5 | 41.8 | 62.6 |

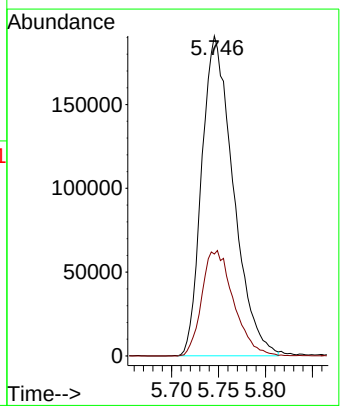


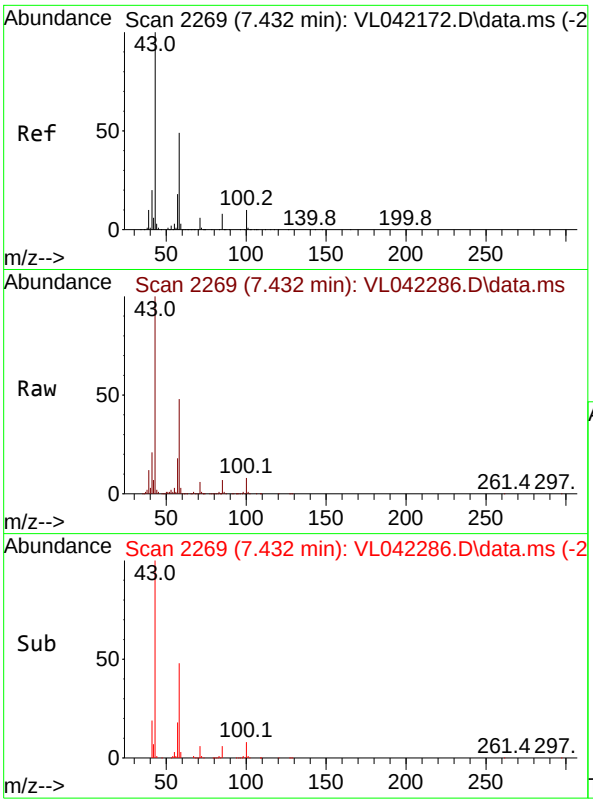




#50
4-Methyl-2-Pentanone
Concen: 9.760 ppbv
RT: 5.745 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 43 Resp: 445454

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 33.4 | 29.0 | 43.6 |



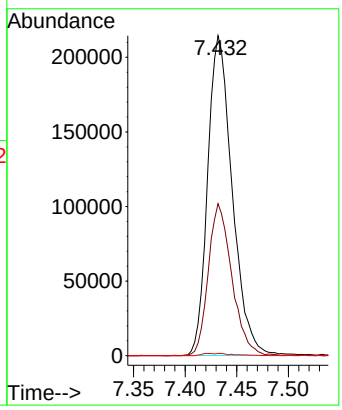


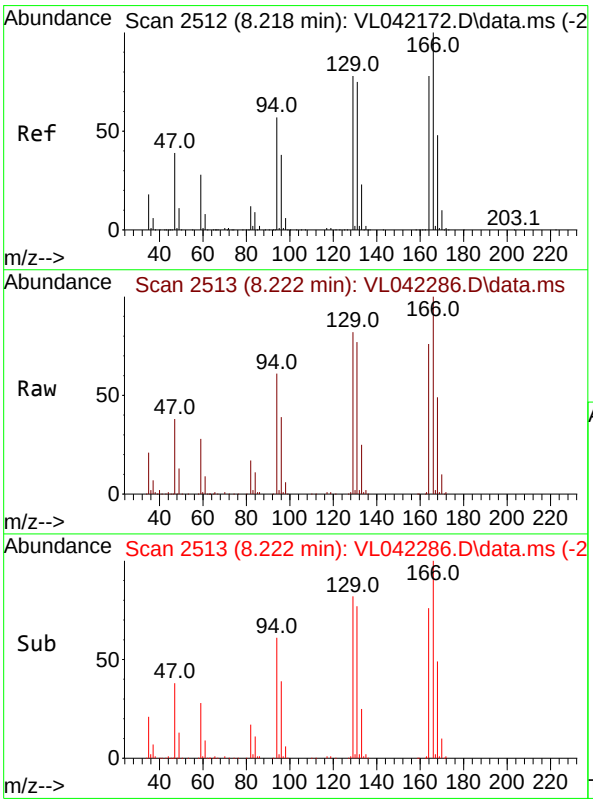

#51
2-Hexanone
Concen: 9.437 ppbv
RT: 7.432 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 43 Resp: 353706

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 45.8 | 39.7 | 59.5 |
| 98 | 0.9 | 0.1 | 0.1# |

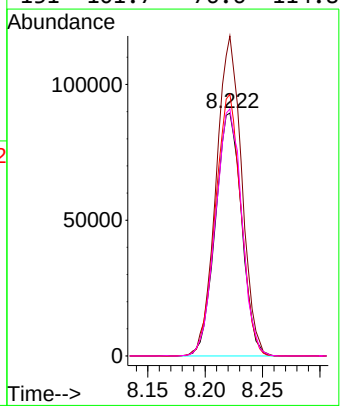


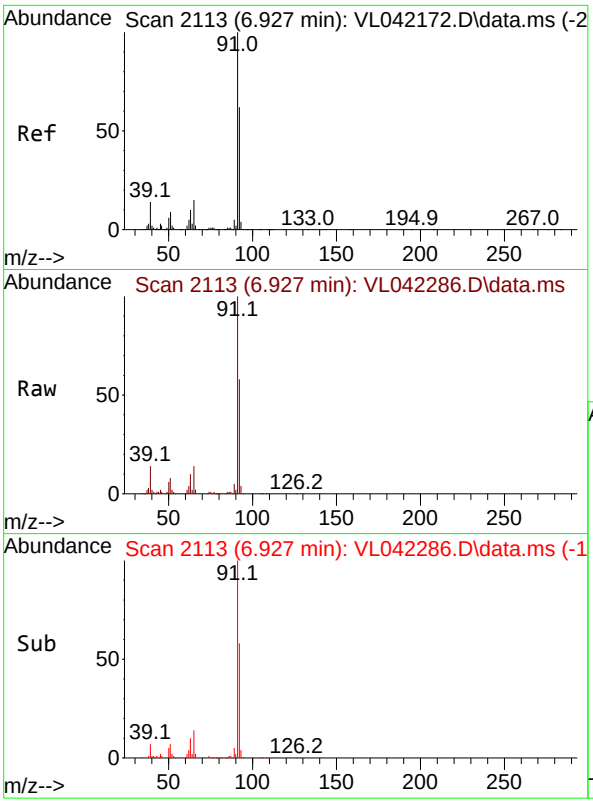




#52
Tetrachloroethene
Concen: 9.092 ppbv
RT: 8.222 min Scan# 2513
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:164 Resp: 141976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 131.7 | 102.5 | 153.7 |
| 129 | 107.7 | 79.8 | 119.8 |
| 131 | 101.7 | 76.6 | 114.8 |



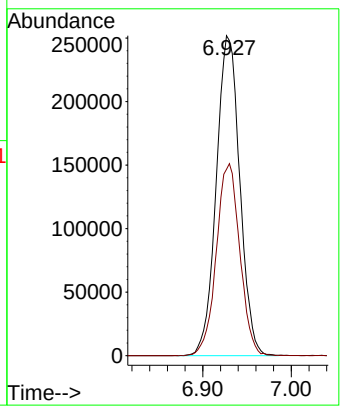


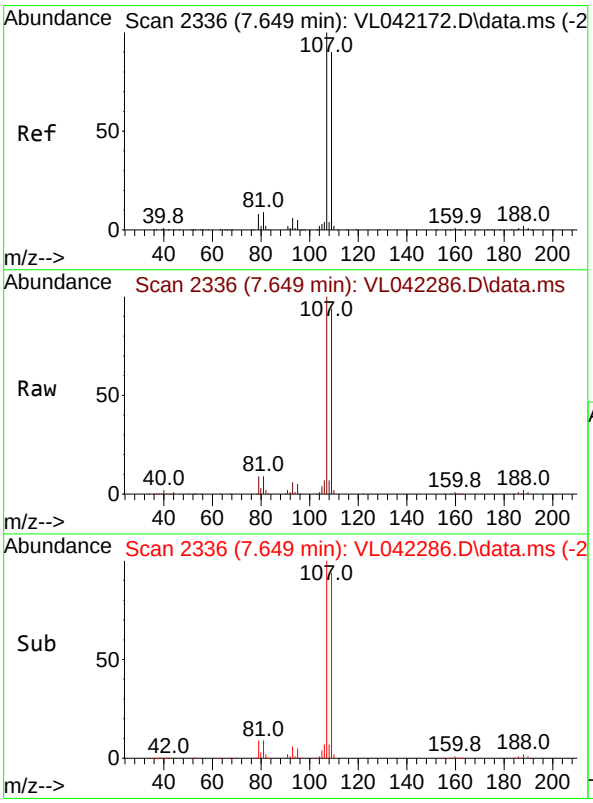

#53
Toluene
Concen: 9.961 ppbv
RT: 6.927 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 91 Resp: 464948

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 60.0 | 48.4 | 72.6 |

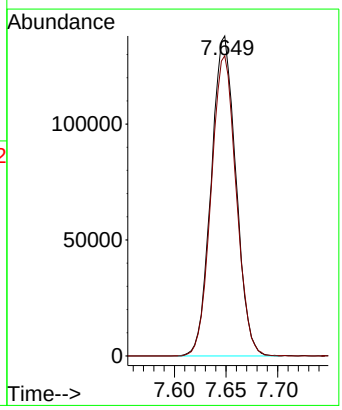


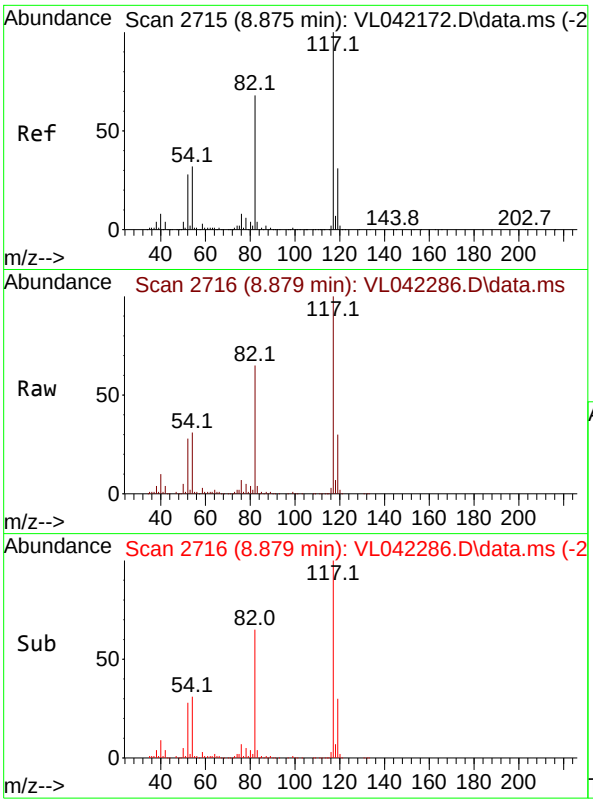




#54
1,2-Dibromoethane
Concen: 10.871 ppbv
RT: 7.649 min Scan# 2336
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:107 Resp: 229720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 93.8 | 72.2 | 108.4 |



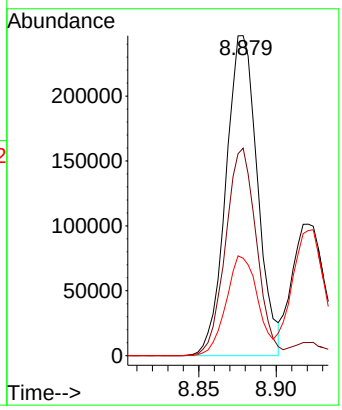


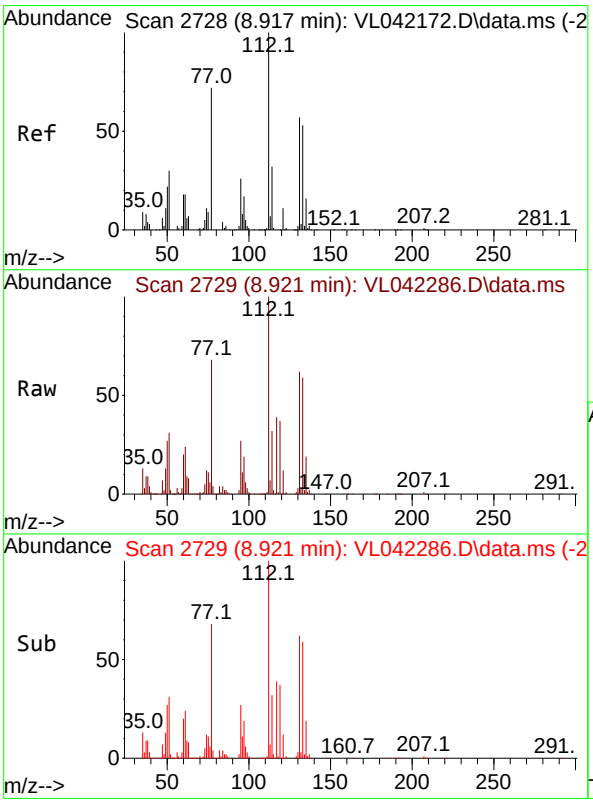

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:117 Resp: 350140

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 67.4 | 55.8 | 83.6 |
| 119 | 31.2 | 25.5 | 38.3 |

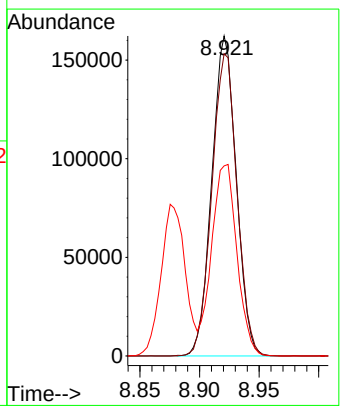


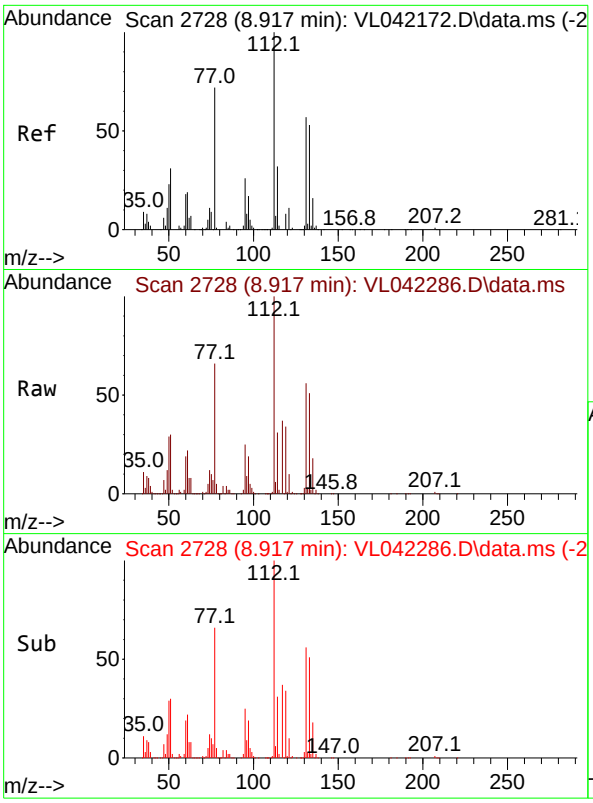




#56
1,1,1,2-Tetrachloroethane
Concen: 11.987 ppbv
RT: 8.921 min Scan# 2729
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:131 Resp: 231041

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 97.4 | 76.6 | 114.8 |
| 119 | 63.2 | 49.8 | 74.6 |



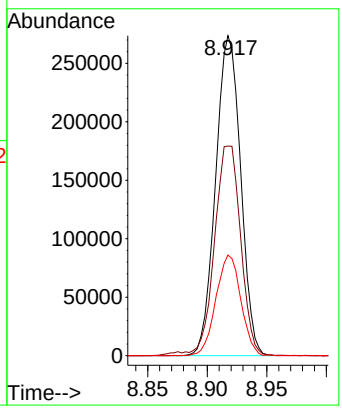


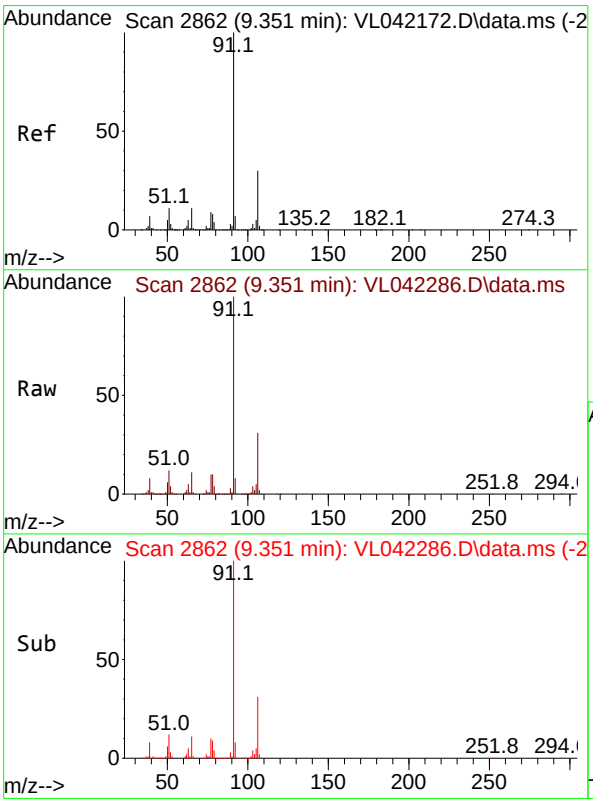

#57
Chlorobenzene
Concen: 12.021 ppbv
RT: 8.917 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:112 Resp: 399227

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 65.3 | 58.2 | 87.2 |
| 114 | 31.4 | 29.1 | 35.5 |

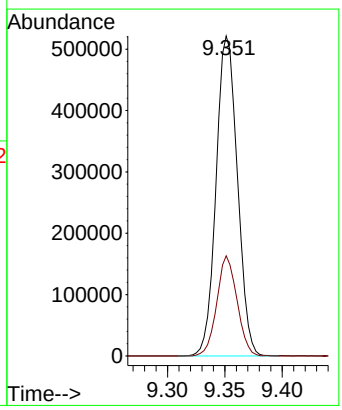


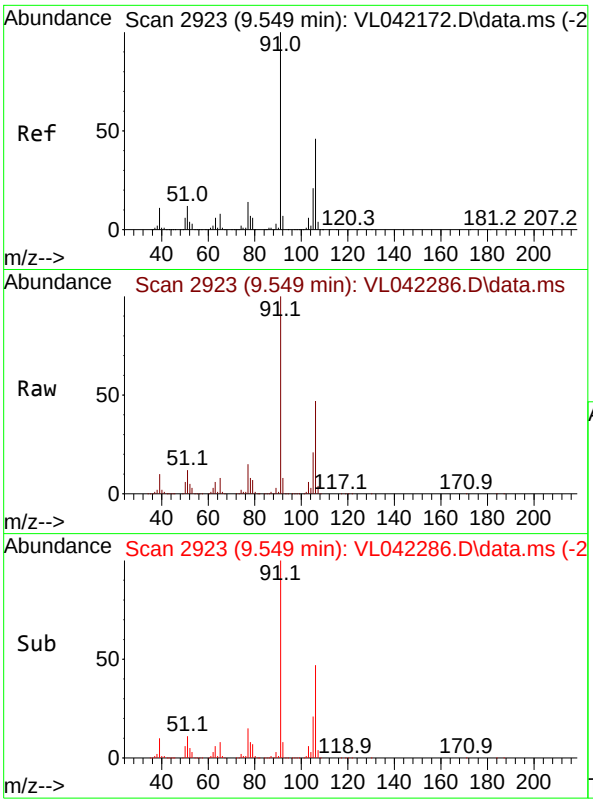




#58
Ethyl Benzene
Concen: 10.834 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 91 Resp: 673801

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.3 | 24.2 | 36.2 |



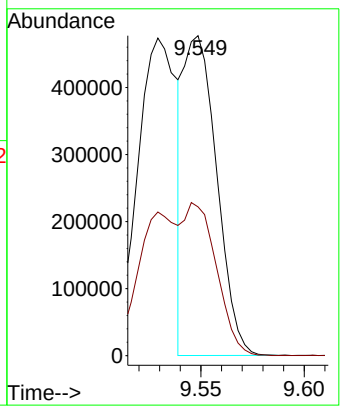


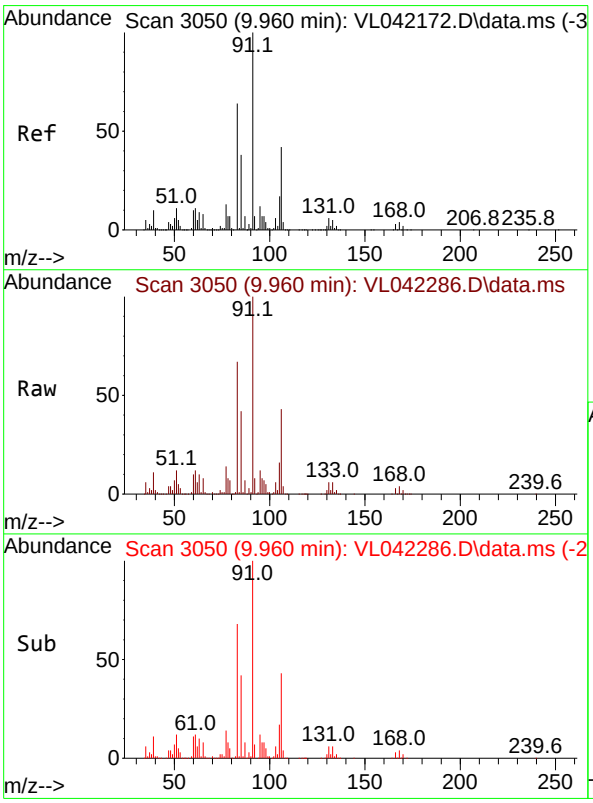

#59
m/p-Xylene
Concen: 10.667 ppbv
RT: 9.549 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 91 Resp: 529747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 101.9 | 36.4 | 54.6# |

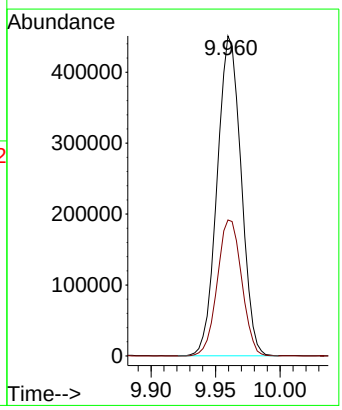


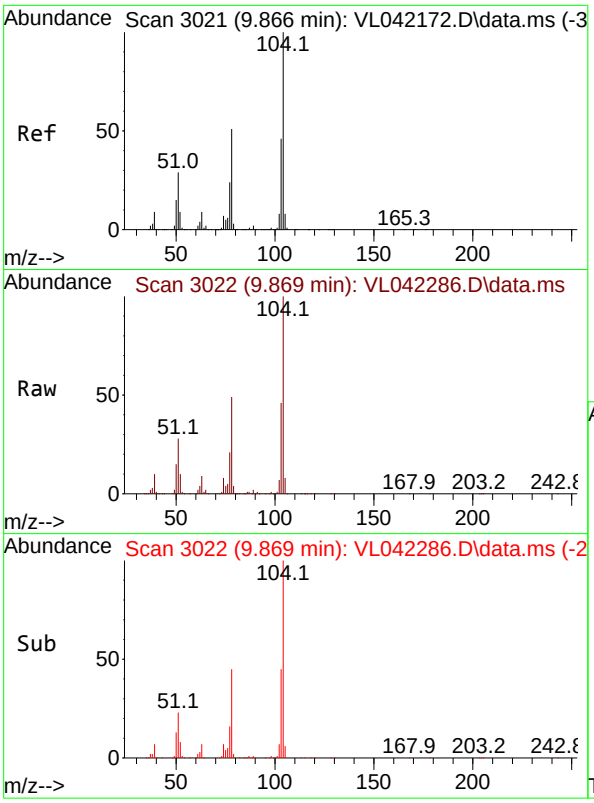




#60
o-Xylene
Concen: 11.671 ppbv
RT: 9.960 min Scan# 3050
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 91 Resp: 581045

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 43.4 | 20.8 | 62.5 |



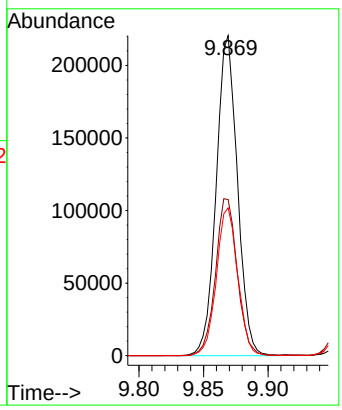


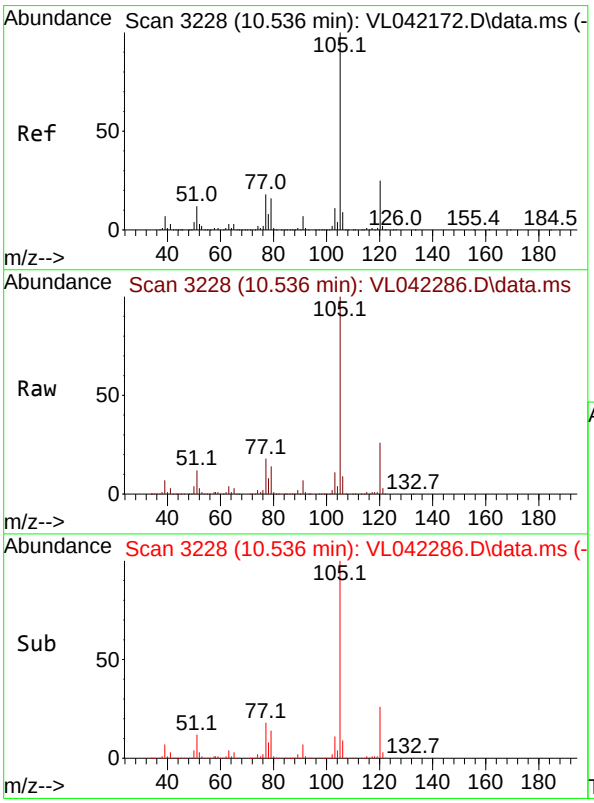

#61
Styrene
Concen: 10.212 ppbv
RT: 9.869 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:104 Resp: 251525

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 50.4 | 41.8 | 62.6 |
| 103 | 46.7 | 37.0 | 55.4 |

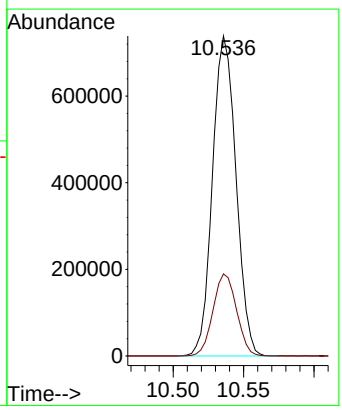


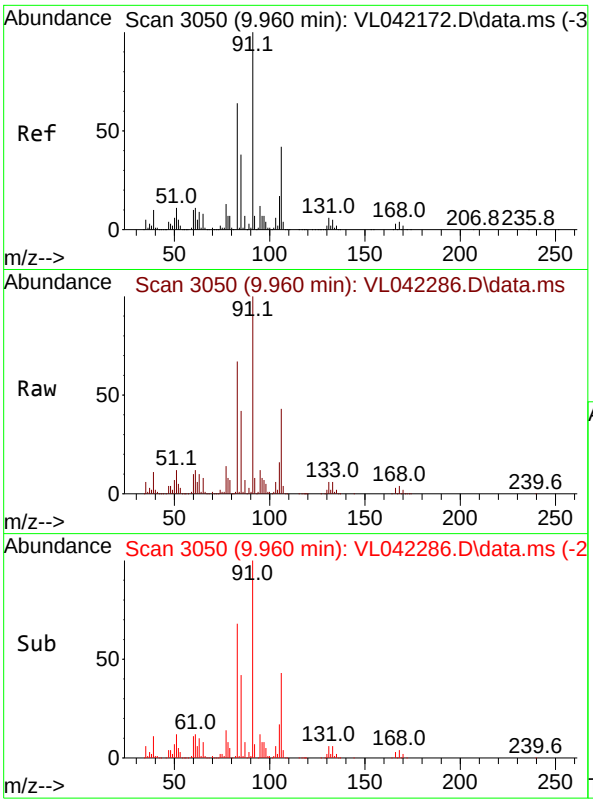




#62
Isopropylbenzene
Concen: 11.538 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:105 Resp: 859013

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.6 | 19.9 | 29.9 |



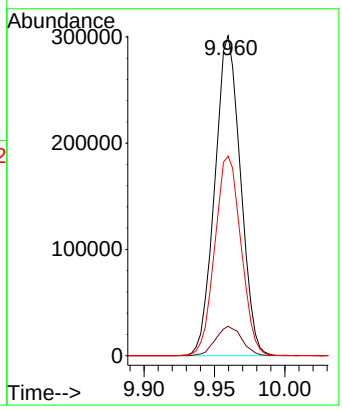


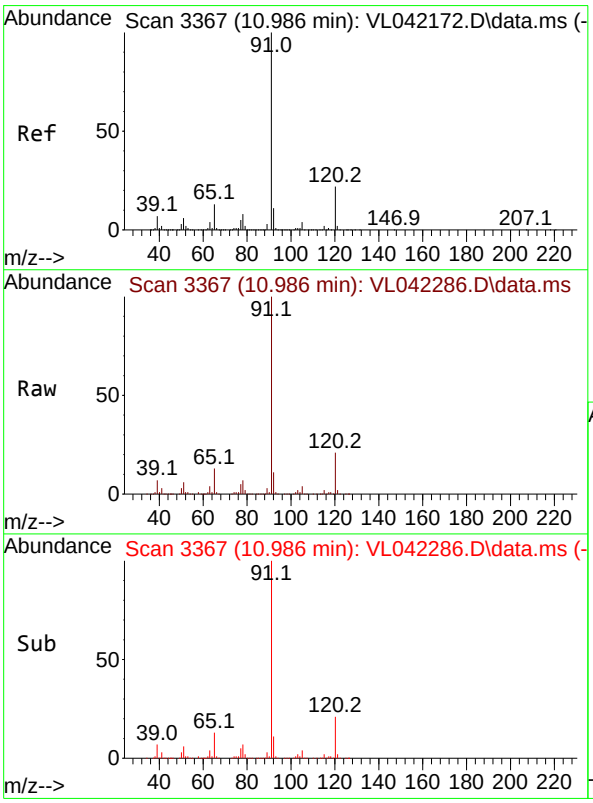

#63
1,1,2,2-Tetrachloroethane
Concen: 12.623 ppbv
RT: 9.960 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 83 Resp: 381841

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.4 | 4.8 | 14.4 |
| 85 | 63.7 | 32.5 | 97.5 |

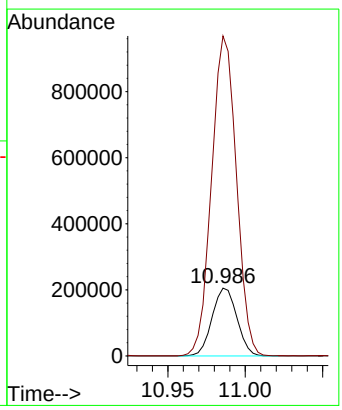


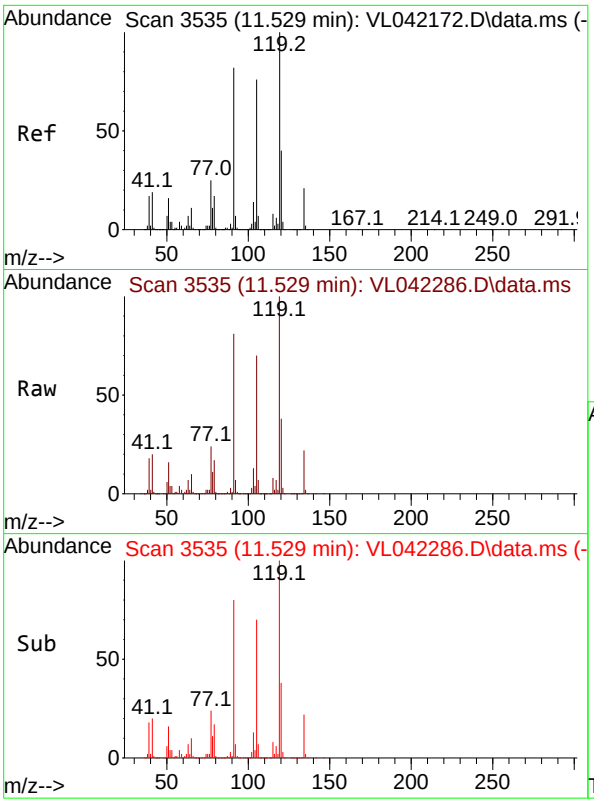




#64
n-propylbenzene
Concen: 11.925 ppbv
RT: 10.986 min Scan# 3367
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:120 Resp: 228532

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 472.2 | 376.9 | 565.3 |



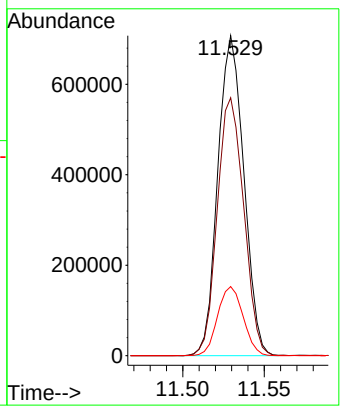


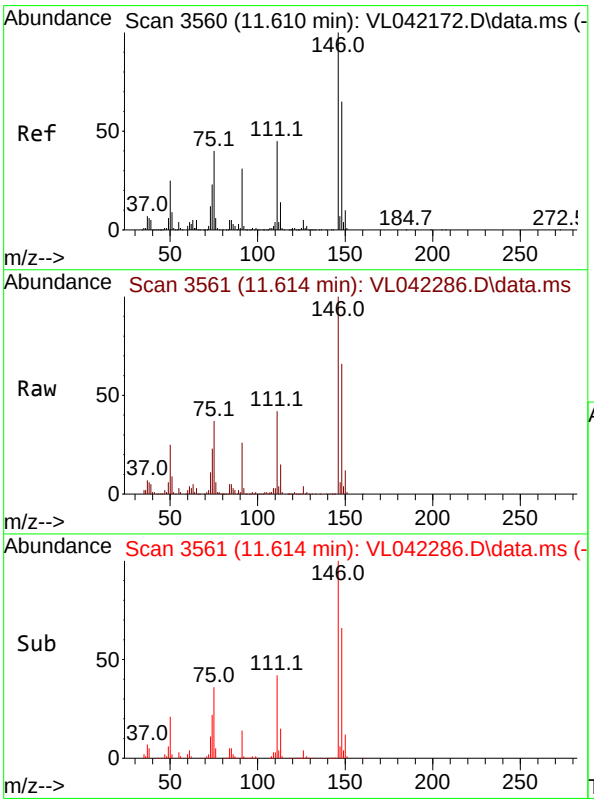

#65
tert-Butylbenzene
Concen: 11.393 ppbv
RT: 11.529 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:119 Resp: 784483

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 82.1 | 66.0 | 99.0 |
| 134 | 21.2 | 16.7 | 25.1 |

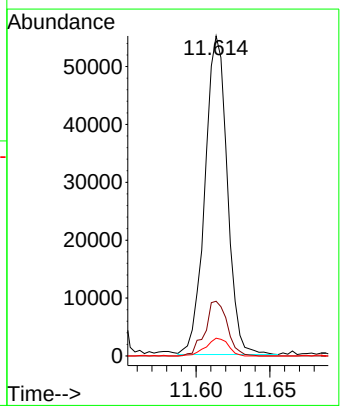


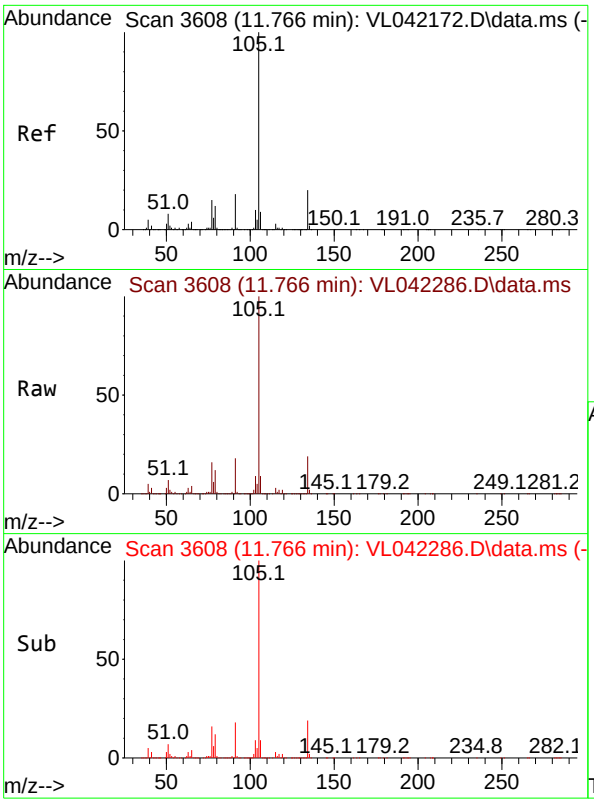




#66
Benzyl Chloride
Concen: 7.934 ppbv
RT: 11.614 min Scan# 3561
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 91 Resp: 57966

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 17.0 | 13.8 | 20.6 |
| 128 | 5.7 | 4.5 | 6.7 |



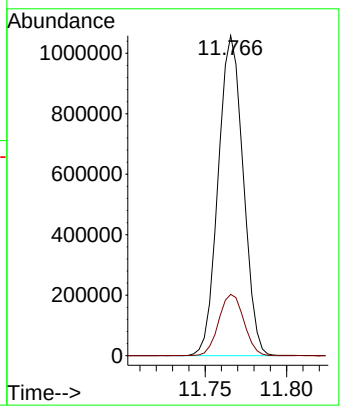


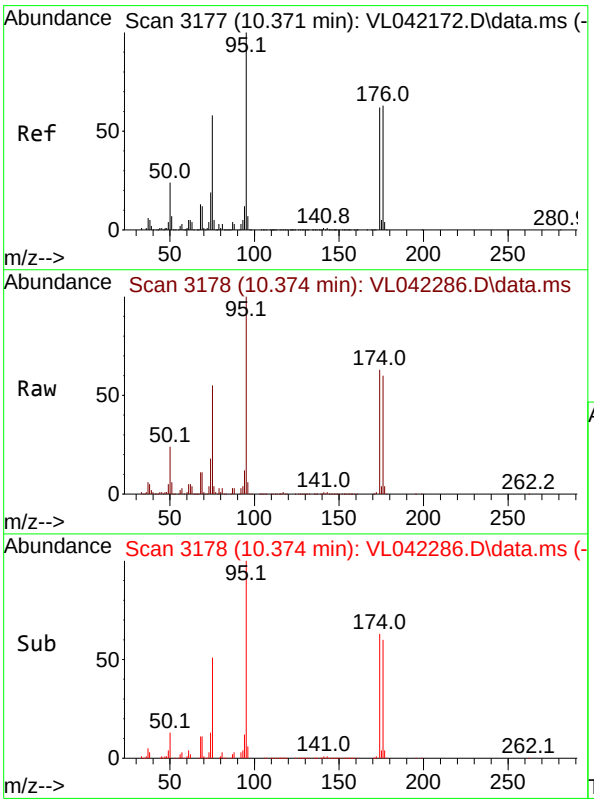

#67
sec-Butylbenzene
Concen: 11.787 ppbv
RT: 11.766 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:105 Resp: 1128106

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.3 | 15.5 | 23.3 |

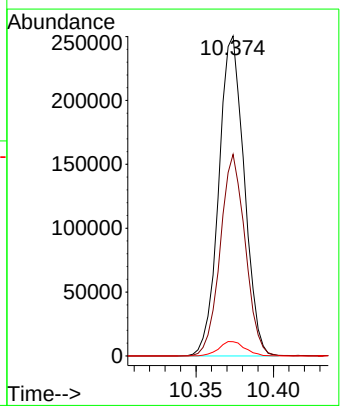


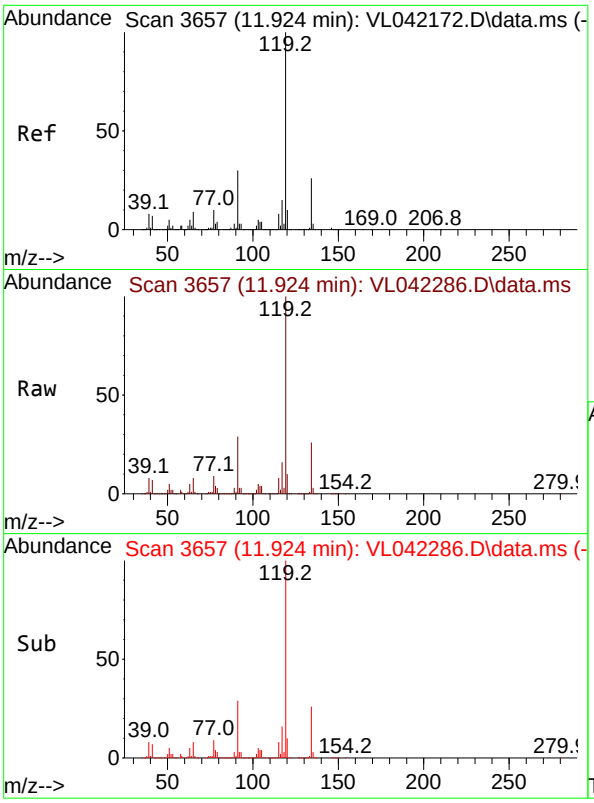




#68
1-Bromo-4-Fluorobenzene
Concen: 9.930 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 95 Resp: 285515

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 61.9 | 50.6 | 76.0 |
| 175 | 4.7 | 3.8 | 5.6 |



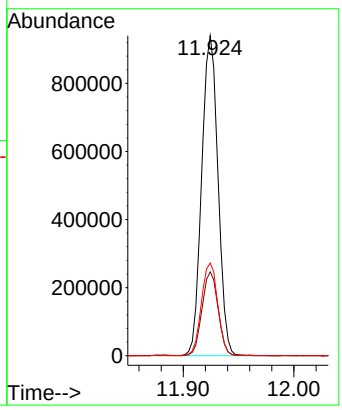


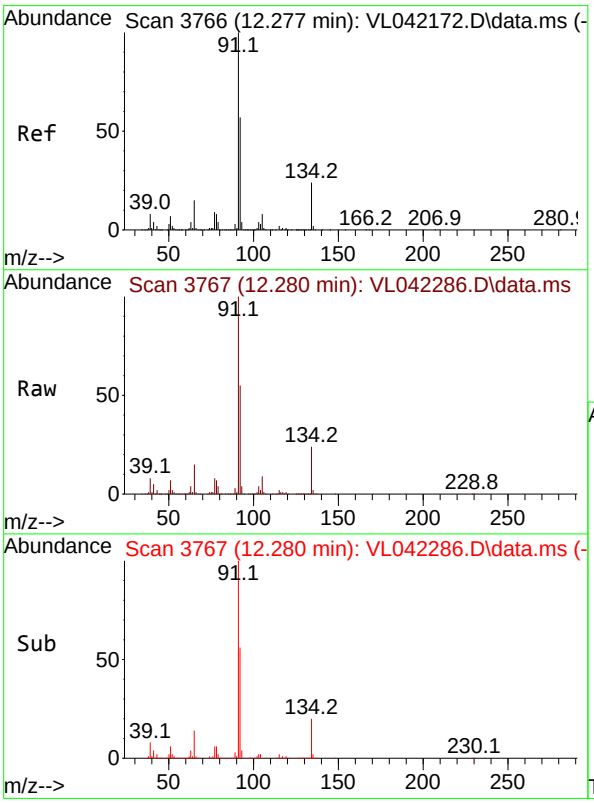

#69
p-Isopropyltoluene
Concen: 11.669 ppbv
RT: 11.924 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:119 Resp: 961623

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.8 | 20.4 | 30.6 |
| 91 | 29.2 | 23.7 | 35.5 |

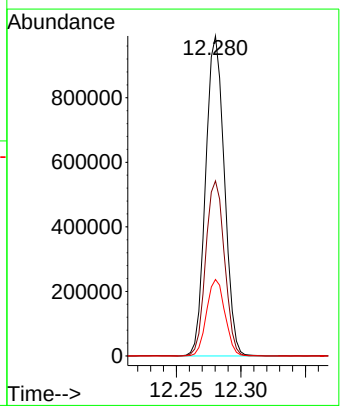


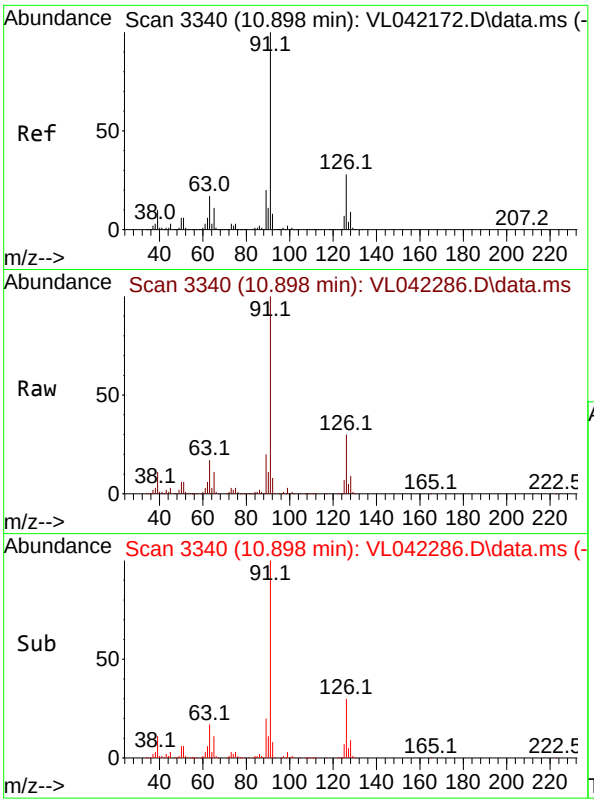




#70
n-Butylbenzene
Concen: 11.847 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 91 Resp: 998455

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 55.0 | 44.9 | 67.3 |
| 134 | 23.6 | 19.2 | 28.8 |



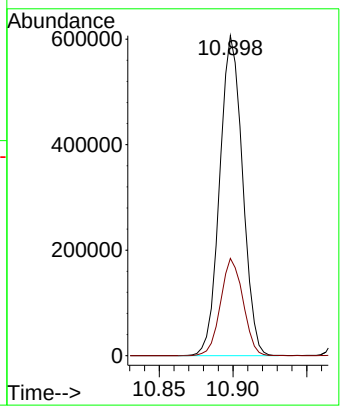


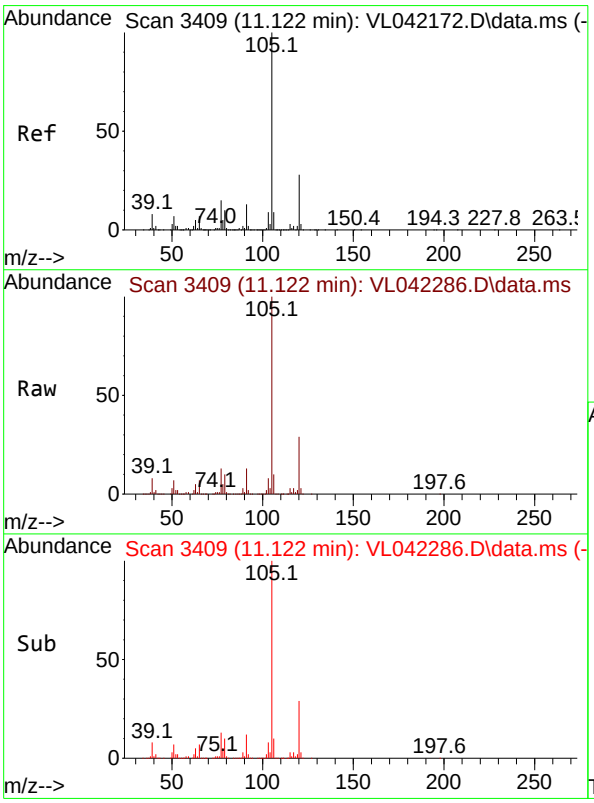

#71
2-Chlorotoluene
Concen: 11.323 ppbv
RT: 10.898 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 91 Resp: 654276

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 29.8 | 11.6 | 46.4 |

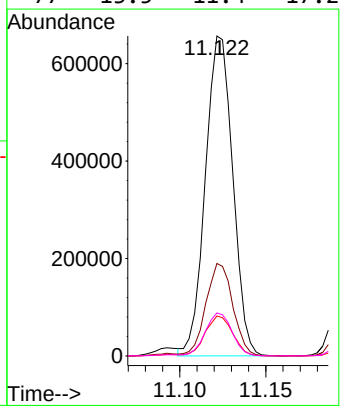


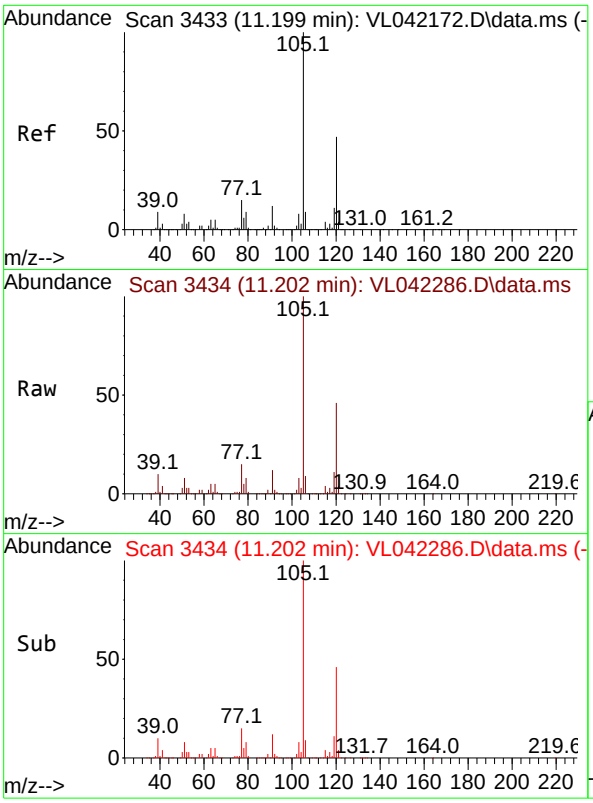




#72
4-Ethyltoluene
Concen: 11.753 ppbv
RT: 11.122 min Scan# 3409
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:105 Resp: 728517

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 29.1 | 23.4 | 35.0 |
| 91 | 12.8 | 10.3 | 15.5 |
| 77 | 13.5 | 11.4 | 17.2 |



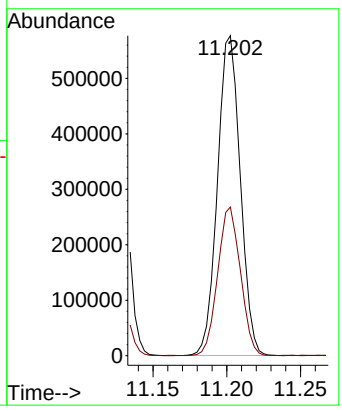


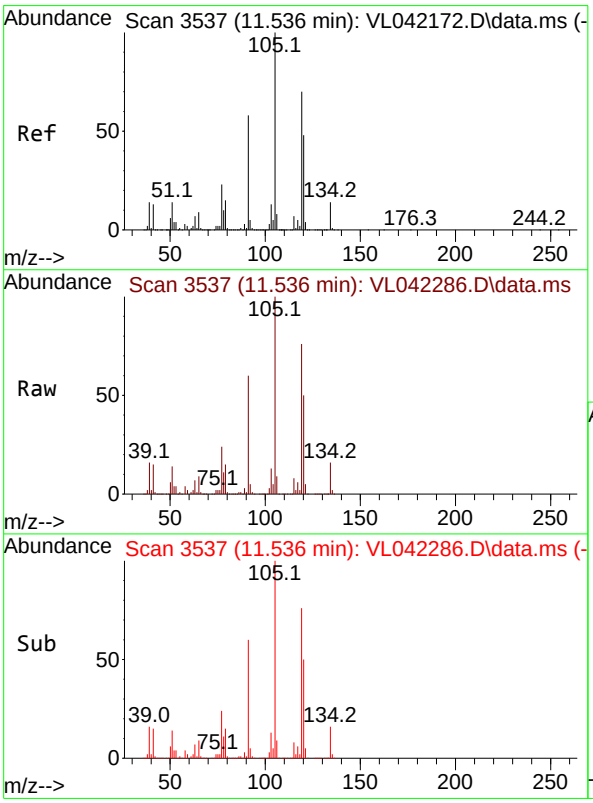

#73
1,3,5-Trimethylbenzene
Concen: 11.460 ppbv
RT: 11.202 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:105 Resp: 620415

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.4 | 37.4 | 56.0 |

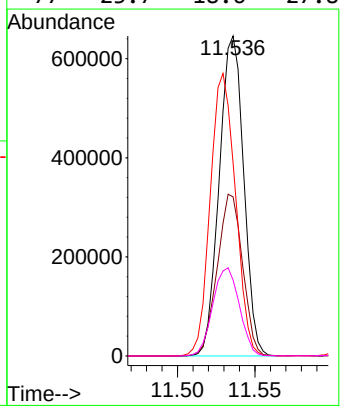


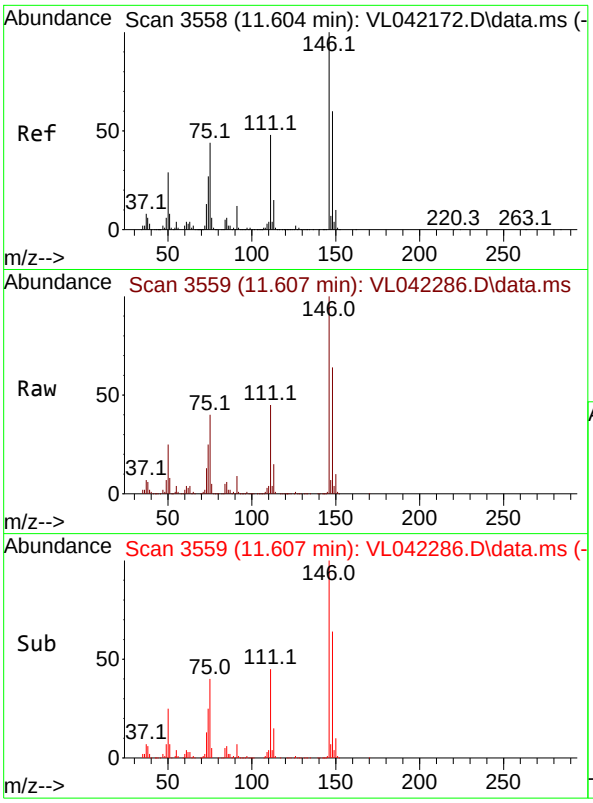




#74
1,2,4-Trimethylbenzene
Concen: 11.371 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:105 Resp: 709204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 49.7 | 38.6 | 58.0 |
| 91 | 60.3 | 46.2 | 69.2 |
| 77 | 23.7 | 18.6 | 27.8 |



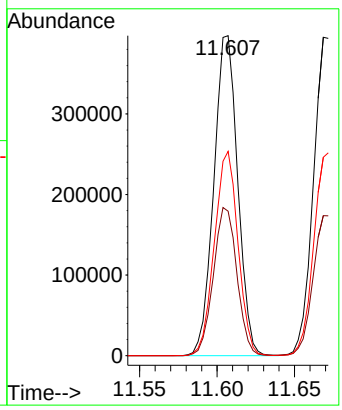


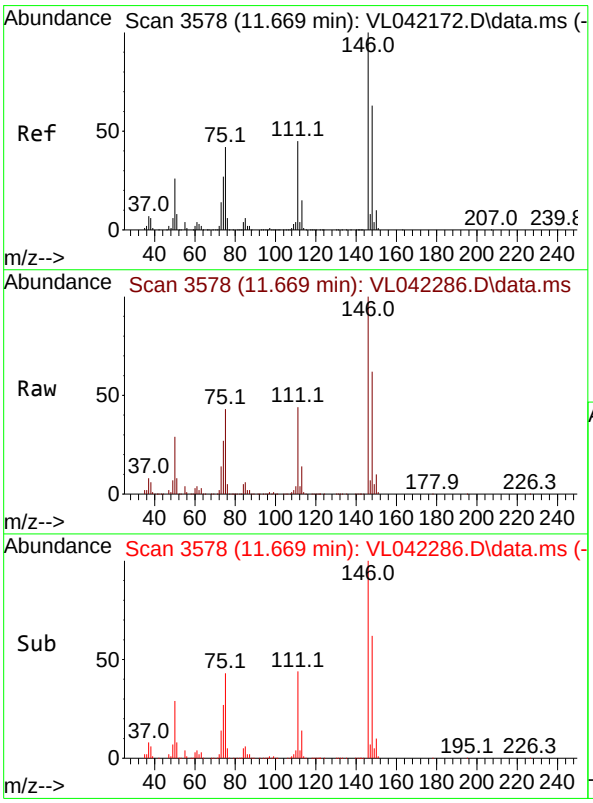

#75
1,3-Dichlorobenzene
Concen: 12.462 ppbv
RT: 11.607 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:146 Resp: 426300

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 45.6 | 23.8 | 71.2 |
| 148 | 63.0 | 31.9 | 95.9 |

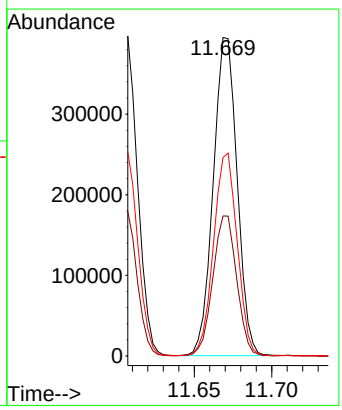


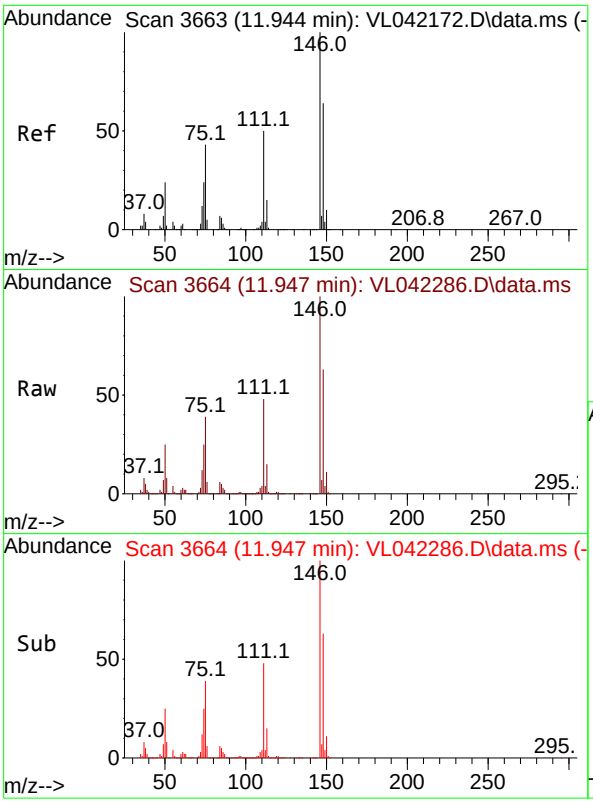




#76
1,4-Dichlorobenzene
Concen: 12.442 ppbv
RT: 11.669 min Scan# 3578
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:146 Resp: 423561

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 44.2 | 23.0 | 69.0 |
| 148 | 63.4 | 31.9 | 95.7 |



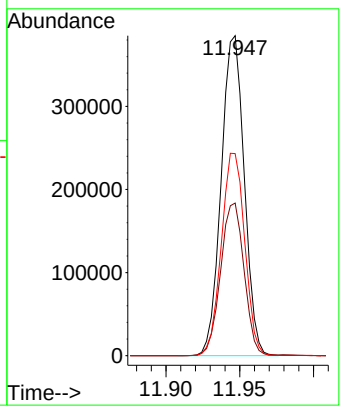


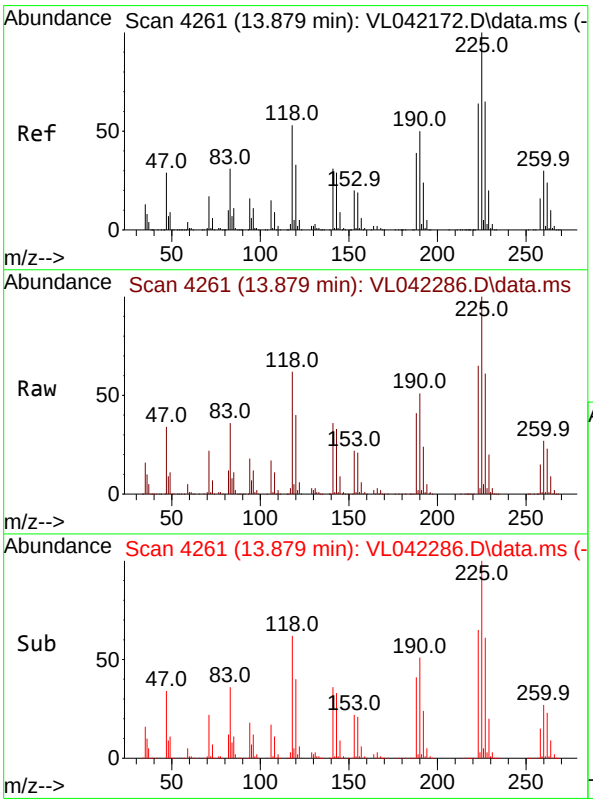

#77
1,2-Dichlorobenzene
Concen: 12.589 ppbv
RT: 11.947 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:146 Resp: 419286

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 48.5 | 24.8 | 74.3 |
| 148 | 64.3 | 31.6 | 94.8 |

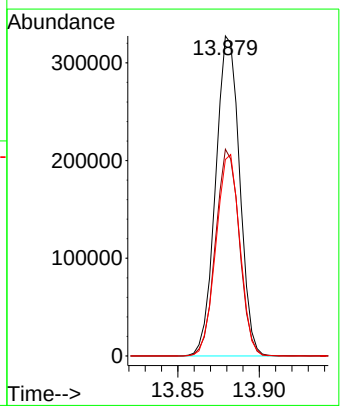


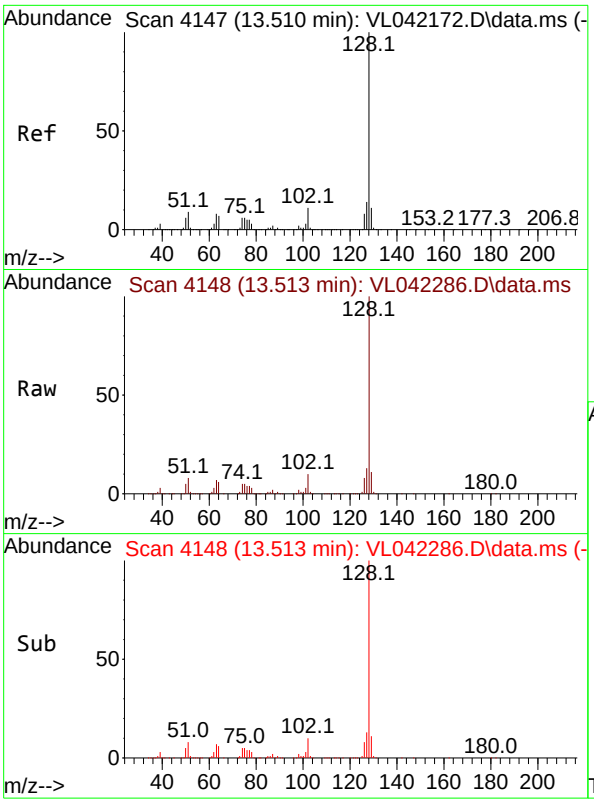




#78
Hexachloro-1,3-Butadiene
Concen: 9.864 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:225 Resp: 334414

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.9 | 50.6 | 76.0 |
| 227 | 62.8 | 51.2 | 76.8 |



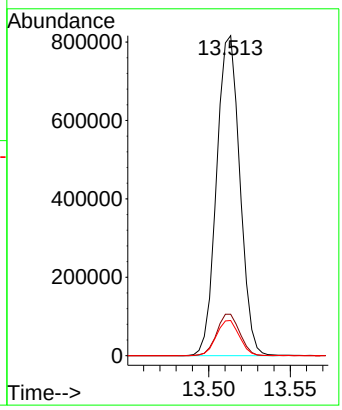


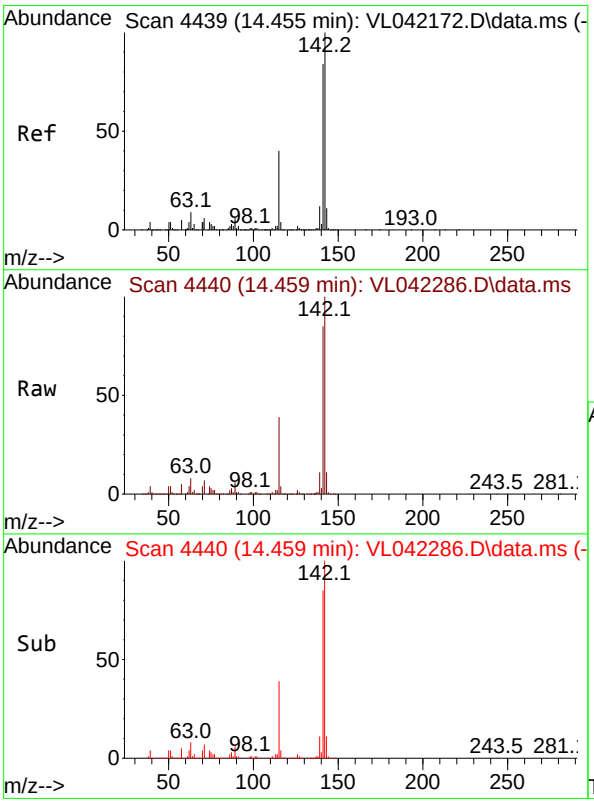

#79
Naphthalene
Concen: 11.851 ppbv
RT: 13.513 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:128 Resp: 808459

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.9 | 10.8 | 16.2 |
| 129 | 11.0 | 9.0 | 13.4 |

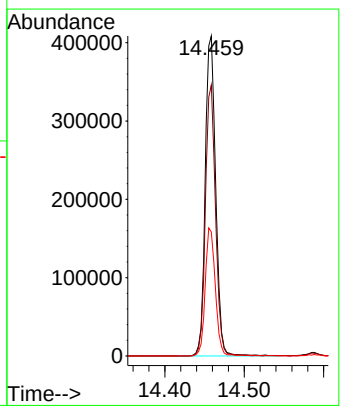


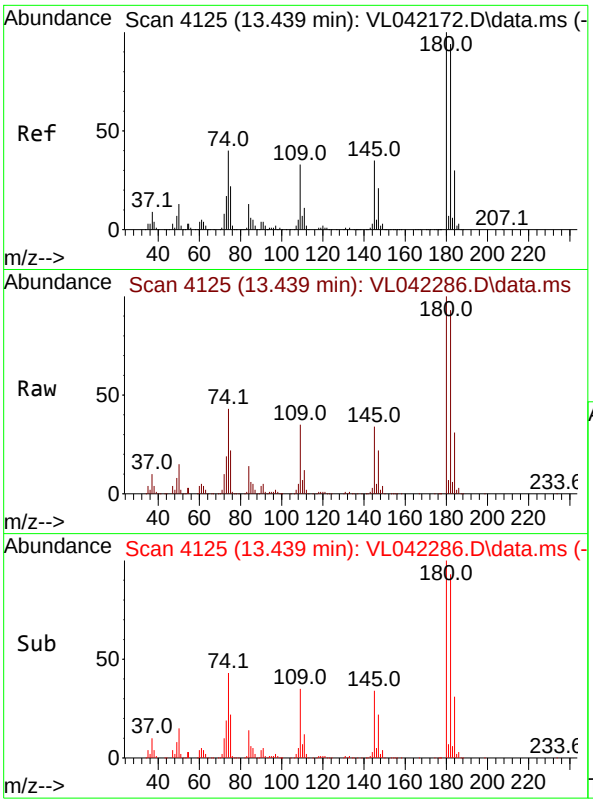




#80
Naphthalene,2-methyl-
Concen: 11.158 ppbv
RT: 14.459 min Scan# 4440
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:142 Resp: 373298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 82.9 | 66.3 | 99.5 |
| 115 | 39.2 | 31.6 | 47.4 |



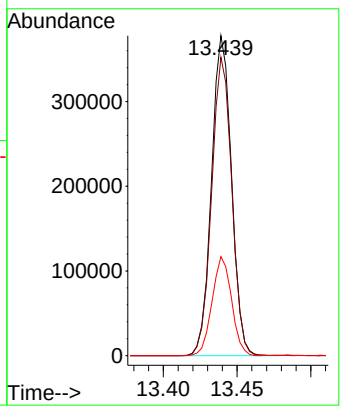



#81
1,2,4-Trichlorobenzene
Concen: 11.305 ppbv
RT: 13.439 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:180 Resp: 355741

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.9 | 75.1 | 112.7 |
| 184 | 30.3 | 24.4 | 36.6 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042289.D
Acq On : 09 Apr 2025 12:31
Operator : SY/MD
Sample : VL0409ABS02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

Quant Time: Apr 10 01:42:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.784 | 49 | 160536 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.952 | 114 | 421845 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.875 | 117 | 368487 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.370 | 95 | 288141 | 9.522 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 95.200% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.496 | 85 | 227351 | 9.592 | ppbv | 98 |
| 3) Chlorodifluoromethane | 1.473 | 51 | 246719 | 10.189 | ppbv | 98 |
| 4) Chloromethane | 1.531 | 50 | 94644 | 9.770 | ppbv | 99 |
| 5) Vinyl Chloride | 1.577 | 62 | 89453 | 8.714 | ppbv | 95 |
| 6) Bromomethane | 1.664 | 94 | 39433 | 8.983 | ppbv | 100 |
| 7) Chloroethane | 1.703 | 64 | 35803 | 9.208 | ppbv | 97 |
| 8) Dichlorotetrafluoroethane | 1.551 | 85 | 196779 | 9.748 | ppbv | 94 |
| 9) Propene | 1.483 | 41 | 104428 | 9.409 | ppbv | 96 |
| 10) Heptane | 4.972 | 43 | 285337 | 9.665 | ppbv | 99 |
| 11) Trichlorofluoromethane | 1.874 | 101 | 219275 | 9.507 | ppbv | 98 |
| 12) 1,1,2-Trichlorotrifluo... | 2.136 | 101 | 180430 | 9.518 | ppbv | 95 |
| 13) Ethanol | 1.719 | 45 | 4753 | 4.530 | ppbv | 93 |
| 14) Bromoethene | 1.780 | 108 | 64175 | 8.837 | ppbv | 98 |
| 15) Acetone | 1.832 | 43 | 200151 | 8.915 | ppbv | 96 |
| 16) 1,3-Butadiene | 1.606 | 39 | 93954 | 8.569 | ppbv | 99 |
| 17) tert-Butyl alcohol | 2.039 | 59 | 231293 | 8.271 | ppbv | 98 |
| 18) 1,1-Dichloroethene | 2.030 | 96 | 78979 | 8.912 | ppbv | 96 |
| 19) Isopropyl Alcohol | 1.884 | 45 | 111918 | 8.835 | ppbv | 96 |
| 20) Methylene Chloride | 2.059 | 84 | 70611 | 8.444 | ppbv | 95 |
| 21) Allyl Chloride | 2.094 | 41 | 147389 | 9.308 | ppbv | 98 |
| 22) trans-1,2-Dichloroethene | 2.337 | 96 | 89877 | 8.775 | ppbv | 94 |
| 23) Vinyl Acetate | 2.460 | 43 | 85028 | 8.750 | ppbv | 97 |
| 24) 1,1-Dichloroethane | 2.405 | 63 | 184801 | 9.733 | ppbv | 99 |
| 25) Ethyl Acetate | 2.832 | 43 | 590692 | 10.137 | ppbv | 98 |
| 26) Hexane | 2.823 | 57 | 223800 | 9.943 | ppbv | 98 |
| 27) Carbon Disulfide | 2.146 | 76 | 223675 | 9.267 | ppbv | 98 |
| 28) Methyl tert-Butyl Ether | 2.437 | 73 | 119034 | 8.494 | ppbv | 97 |
| 29) Chloroform | 2.845 | 83 | 341042 | 10.353 | ppbv | 99 |
| 30) Cyclohexane | 3.852 | 84 | 182880 | 9.357 | ppbv | 97 |
| 31) cis-1,2-Dichloroethene | 2.716 | 61 | 221881 | 9.710 | ppbv | 98 |
| 32) 1,1,1-Trichloroethane | 3.363 | 97 | 336493 | 8.923 | ppbv | 97 |
| 34) 2-Butanone | 2.554 | 43 | 334636 | 10.940 | ppbv | 98 |
| 35) Carbon Tetrachloride | 3.758 | 117 | 343376 | 10.420 | ppbv | 97 |
| 36) Benzene | 3.651 | 78 | 442736 | 10.586 | ppbv | 98 |
| 37) 1,2-Dichloroethane | 3.214 | 62 | 262528 | 10.965 | ppbv | 100 |
| 38) Trichloroethene | 4.541 | 130 | 176435 | 10.111 | ppbv | 98 |
| 39) 1,2-Dichloropropane | 4.308 | 63 | 161101 | 10.578 | ppbv | 97 |
| 40) 1,4-Dioxane | 4.574 | 88 | 76321 | 9.441 | ppbv # | 97 |
| 41) Tetrahydrofuran | 3.049 | 42 | 187790 | 10.661 | ppbv | 96 |
| 42) Bromodichloromethane | 4.483 | 83 | 360662 | 10.927 | ppbv | 100 |
| 43) Methyl Methacrylate | 4.875 | 69 | 165984 | 9.375 | ppbv | 98 |
| 44) 2,2,4-Trimethylpentane | 4.632 | 57 | 757855 | 10.723 | ppbv | 98 |
| 45) t-1,3-Dichloropropene | 6.406 | 75 | 161245 | 8.489 | ppbv | 96 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042289.D
Acq On : 09 Apr 2025 12:31
Operator : SY/MD
Sample : VL0409ABS02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

Quant Time: Apr 10 01:42:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

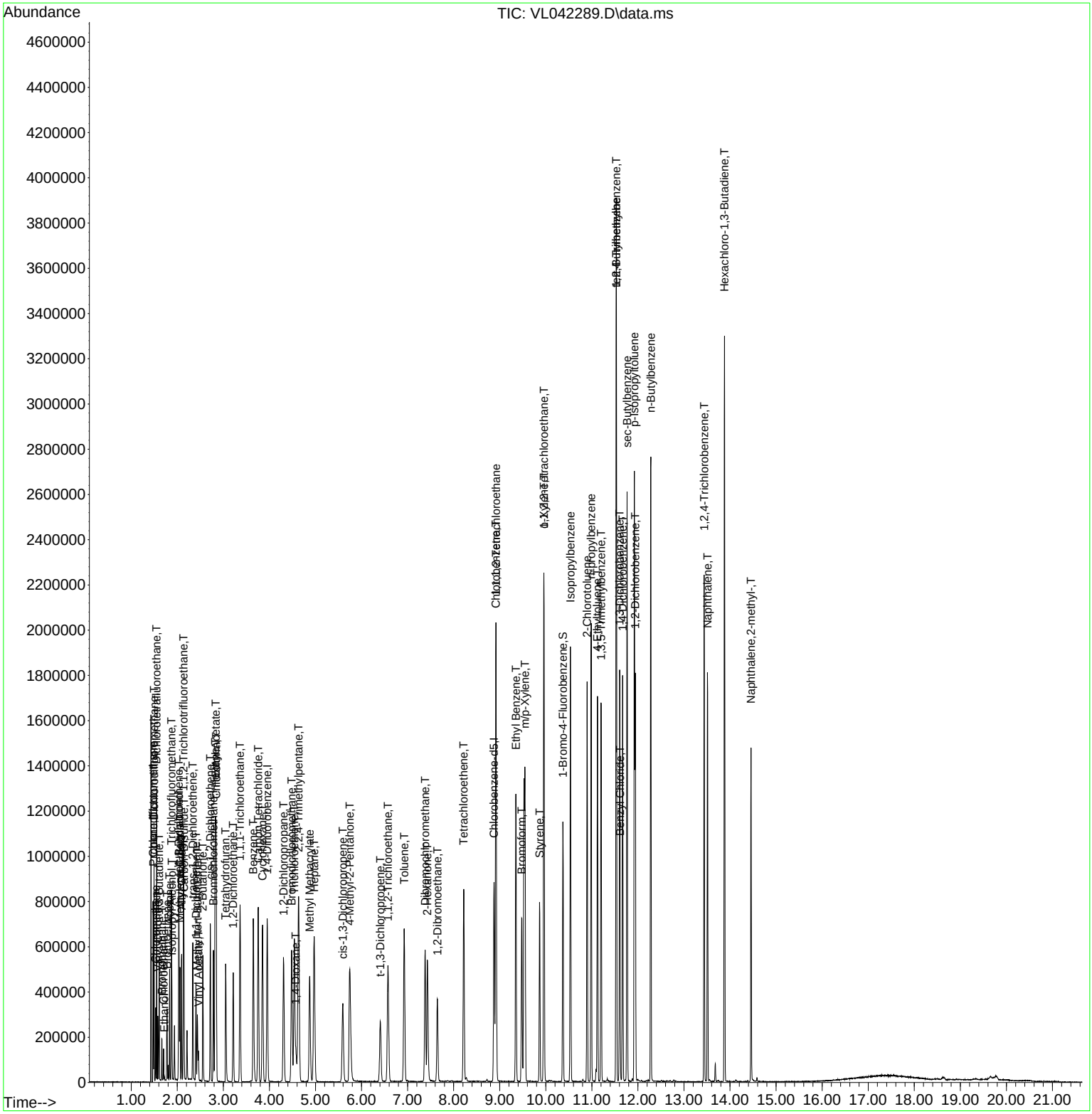
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.593 | 75 | 213566 | 9.172 | ppbv | | 98 |
| 47) 1,1,2-Trichloroethane | 6.574 | 97 | 173506 | 10.777 | ppbv | | 99 |
| 48) Dibromochloromethane | 7.380 | 129 | 286938 | 10.516 | ppbv | | 100 |
| 49) Bromoform | 9.477 | 173 | 254430 | 10.386 | ppbv | | 99 |
| 50) 4-Methyl-2-Pentanone | 5.742 | 43 | 463069 | 9.552 | ppbv | | 96 |
| 51) 2-Hexanone | 7.428 | 43 | 364946 | 9.168 | ppbv | # | 96 |
| 52) Tetrachloroethene | 8.218 | 164 | 148369 | 8.946 | ppbv | | 94 |
| 53) Toluene | 6.927 | 91 | 490916 | 9.903 | ppbv | | 99 |
| 54) 1,2-Dibromoethane | 7.648 | 107 | 238091 | 10.608 | ppbv | | 98 |
| 56) 1,1,1,2-Tetrachloroethane | 8.920 | 131 | 232553 | 11.465 | ppbv | | 100 |
| 57) Chlorobenzene | 8.914 | 112 | 397485 | 11.372 | ppbv | | 93 |
| 58) Ethyl Benzene | 9.351 | 91 | 695035 | 10.619 | ppbv | | 98 |
| 59) m/p-Xylene | 9.548 | 91 | 593323 | 11.352 | ppbv | # | 31 |
| 60) o-Xylene | 9.959 | 91 | 574256 | 10.960 | ppbv | | 97 |
| 61) Styrene | 9.866 | 104 | 258350 | 9.967 | ppbv | | 99 |
| 62) Isopropylbenzene | 10.536 | 105 | 864354 | 11.032 | ppbv | | 100 |
| 63) 1,1,2,2-Tetrachloroethane | 9.959 | 83 | 377007 | 11.843 | ppbv | | 99 |
| 64) n-propylbenzene | 10.985 | 120 | 228525 | 11.331 | ppbv | | 99 |
| 65) tert-Butylbenzene | 11.529 | 119 | 790461 | 10.909 | ppbv | | 99 |
| 66) Benzyl Chloride | 11.613 | 91 | 58131 | 7.561 | ppbv | | 97 |
| 67) sec-Butylbenzene | 11.765 | 105 | 1124096 | 11.161 | ppbv | | 99 |
| 69) p-Isopropyltoluene | 11.924 | 119 | 950025 | 10.954 | ppbv | | 99 |
| 70) n-Butylbenzene | 12.280 | 91 | 986632 | 11.124 | ppbv | | 99 |
| 71) 2-Chlorotoluene | 10.898 | 91 | 660346 | 10.859 | ppbv | | 99 |
| 72) 4-Ethyltoluene | 11.121 | 105 | 726883 | 11.142 | ppbv | | 99 |
| 73) 1,3,5-Trimethylbenzene | 11.202 | 105 | 618219 | 10.851 | ppbv | | 99 |
| 74) 1,2,4-Trimethylbenzene | 11.532 | 105 | 702287 | 10.699 | ppbv | # | 84 |
| 75) 1,3-Dichlorobenzene | 11.604 | 146 | 419165 | 11.644 | ppbv | | 99 |
| 76) 1,4-Dichlorobenzene | 11.668 | 146 | 417746 | 11.660 | ppbv | | 98 |
| 77) 1,2-Dichlorobenzene | 11.943 | 146 | 415780 | 11.862 | ppbv | | 99 |
| 78) Hexachloro-1,3-Butadiene | 13.879 | 225 | 331886 | 9.302 | ppbv | | 99 |
| 79) Naphthalene | 13.510 | 128 | 810441 | 11.288 | ppbv | | 99 |
| 80) Naphthalene,2-methyl- | 14.455 | 142 | 388095 | 11.023 | ppbv | | 99 |
| 81) 1,2,4-Trichlorobenzene | 13.439 | 180 | 357711 | 10.802 | ppbv | | 99 |

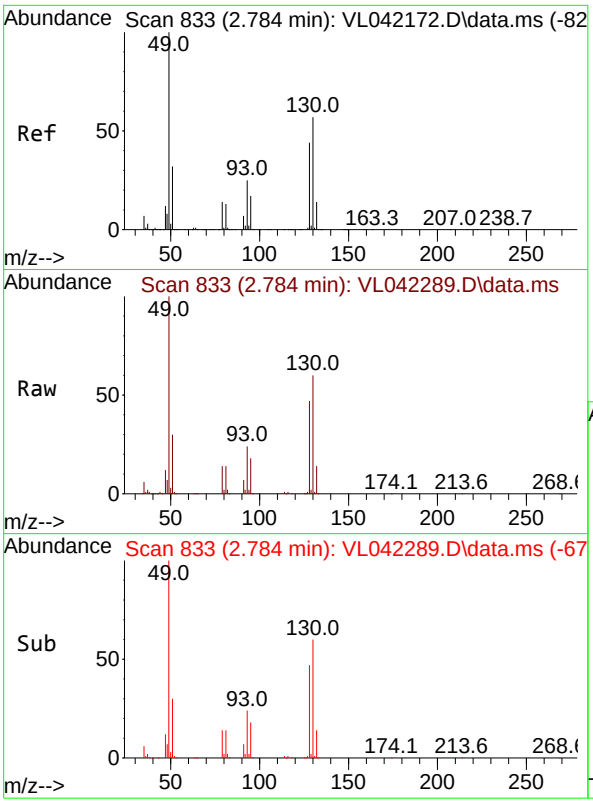
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042289.D
Acq On : 09 Apr 2025 12:31
Operator : SY/MD
Sample : VL0409ABS02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

Quant Time: Apr 10 01:42:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration



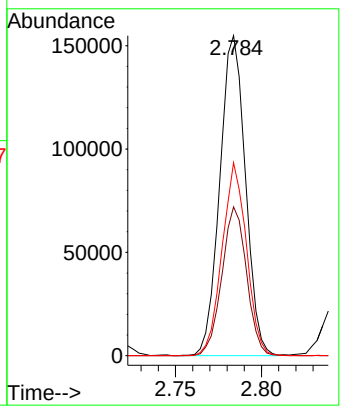


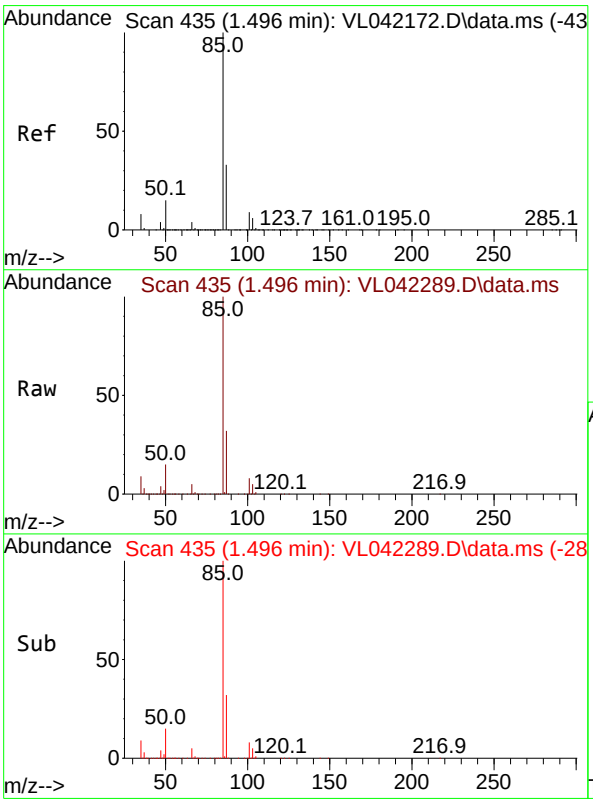

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

Tgt Ion: 49 Resp: 160536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 44.7 | 22.9 | 68.5 |
| 130 | 57.4 | 28.8 | 86.4 |

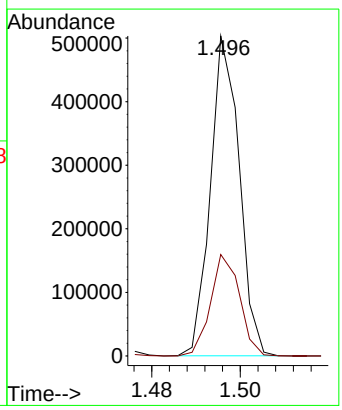


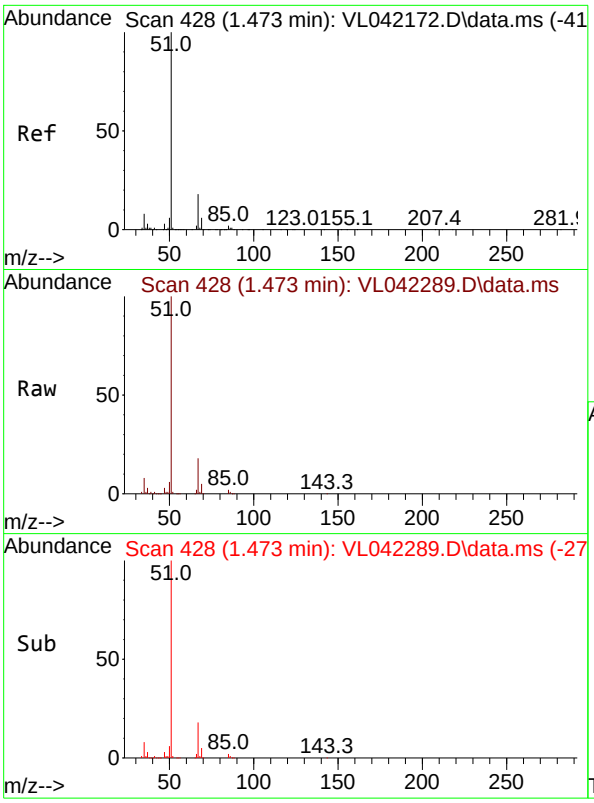




#2
Dichlorodifluoromethane
Concen: 9.592 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 85 Resp: 227351

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.7 | 26.1 | 39.1 |



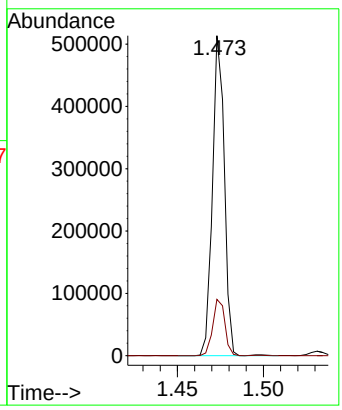


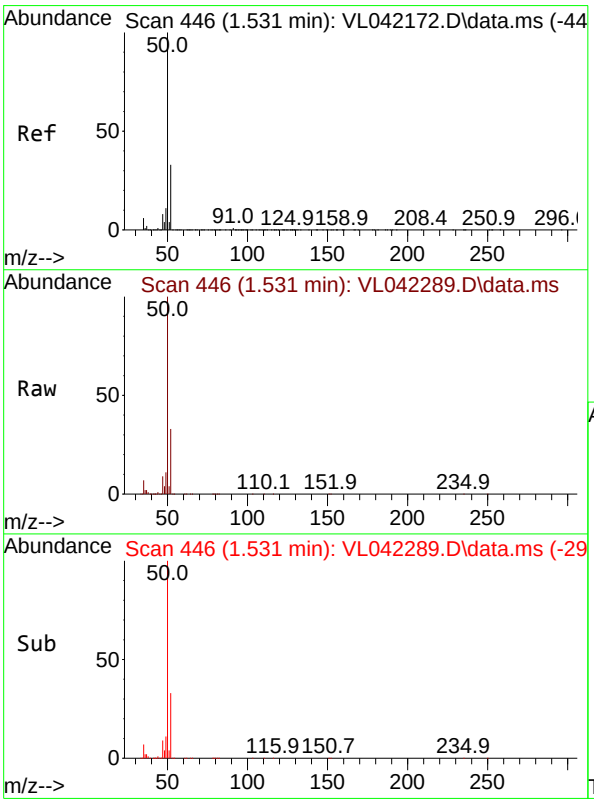

#3
Chlorodifluoromethane
Concen: 10.189 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

Tgt Ion: 51 Resp: 246719

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 18.1 | 15.0 | 22.6 |

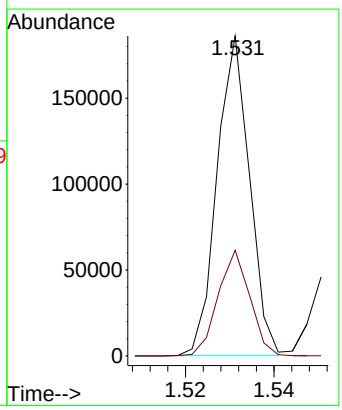


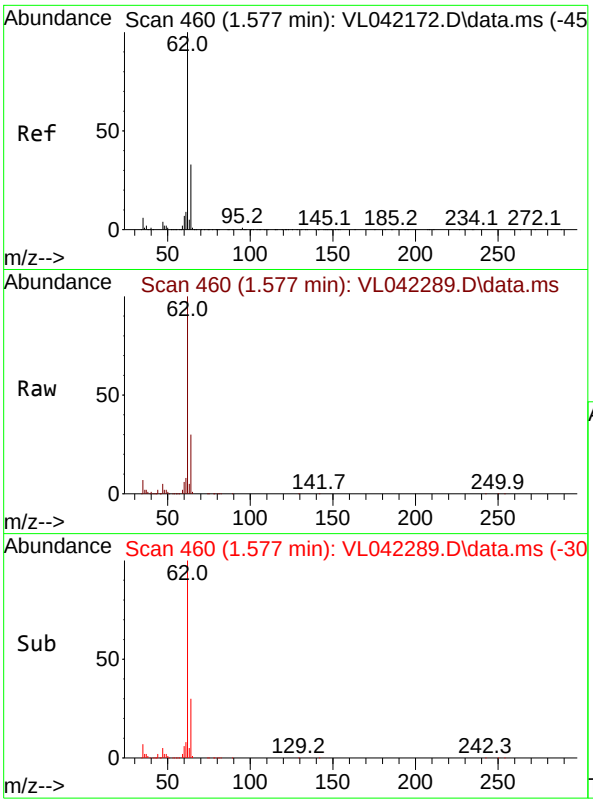




#4
Chloromethane
Concen: 9.770 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 50 Resp: 94644

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.9 | 26.1 | 39.1 |



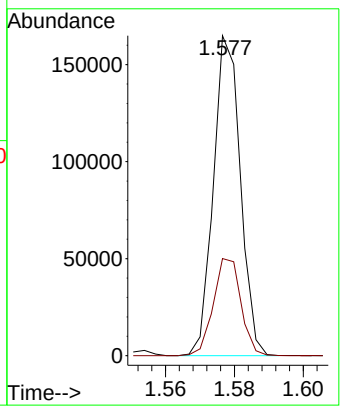


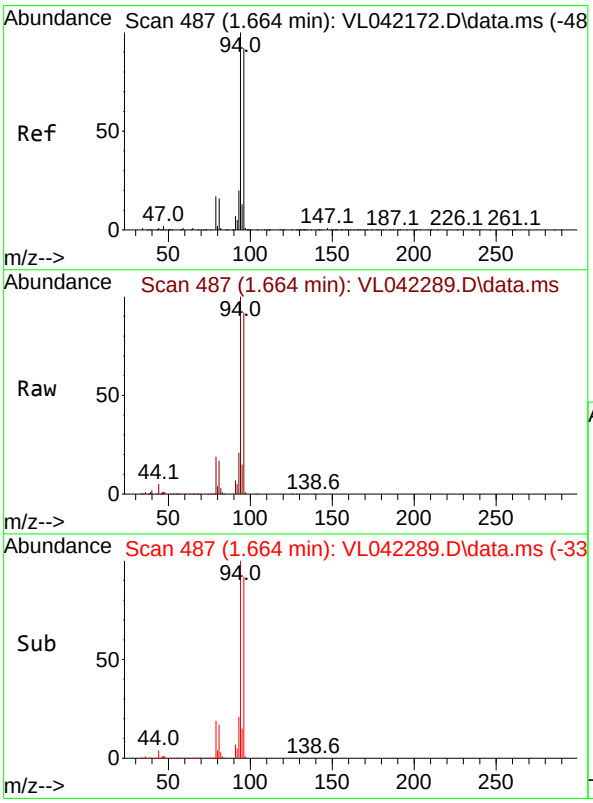

#5
Vinyl Chloride
Concen: 8.714 ppbv
RT: 1.577 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

Tgt Ion: 62 Resp: 89453

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 30.3 | 26.6 | 40.0 |

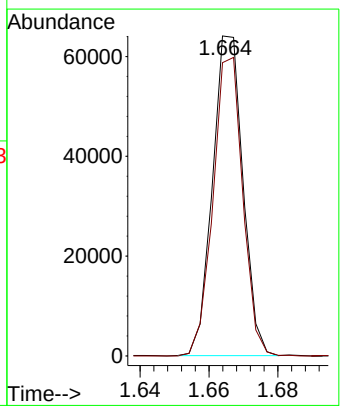


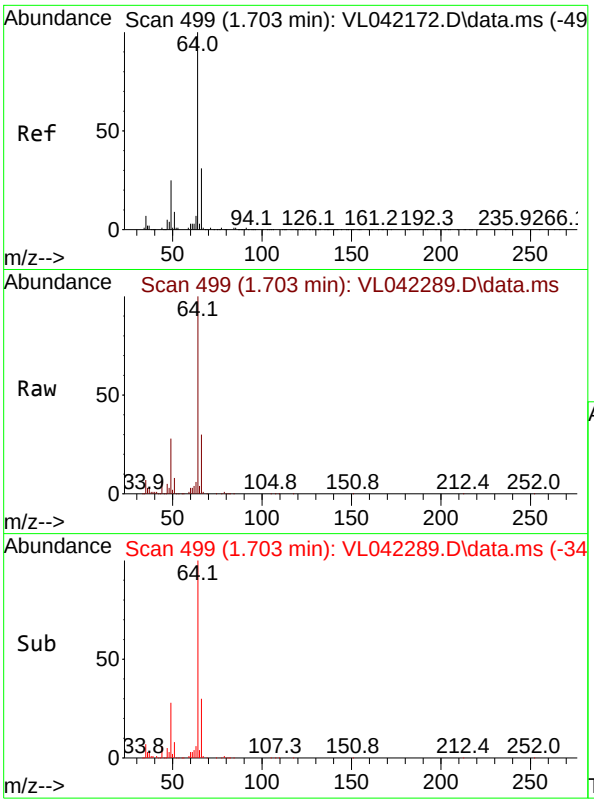




#6
Bromomethane
Concen: 8.983 ppbv
RT: 1.664 min Scan# 487
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 94 Resp: 39433

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 91.7 | 73.1 | 109.7 |



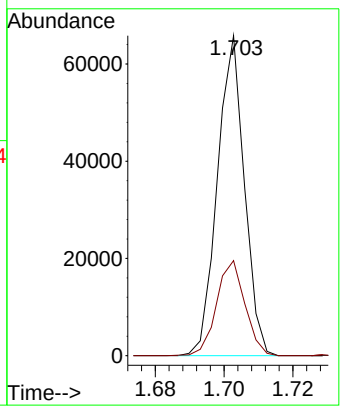


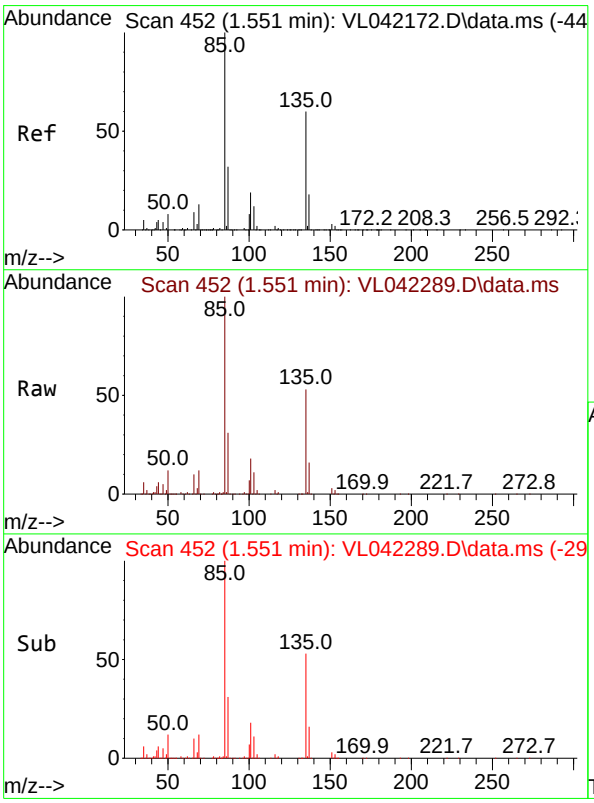

#7
Chloroethane
Concen: 9.208 ppbv
RT: 1.703 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

Tgt Ion: 64 Resp: 35803

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 29.7 | 25.2 | 37.8 |

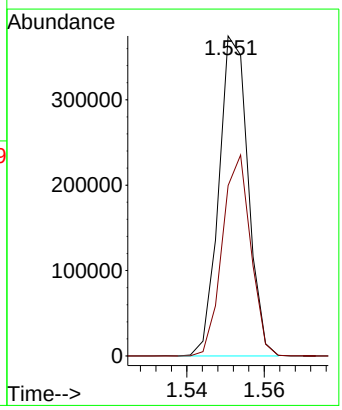


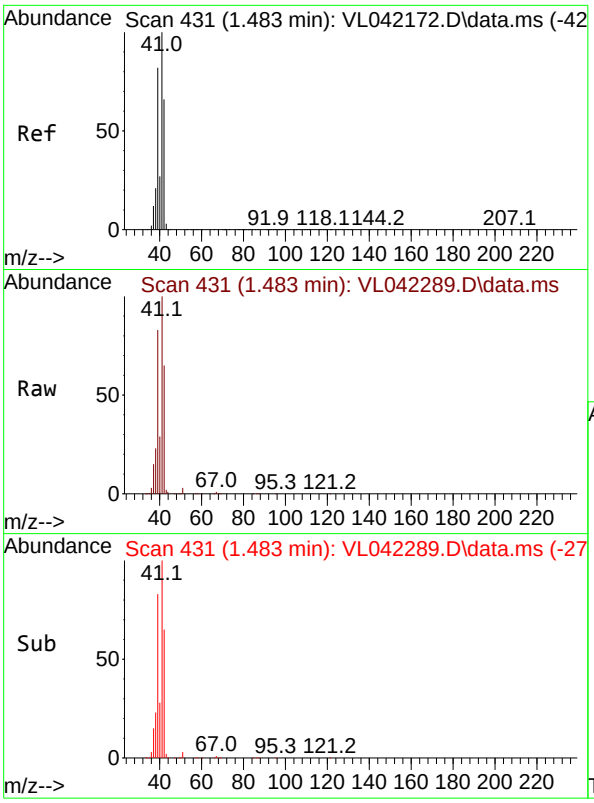




#8
Dichlorotetrafluoroethane
Concen: 9.748 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 85 Resp: 196779

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 61.1 | 52.4 | 78.6 |



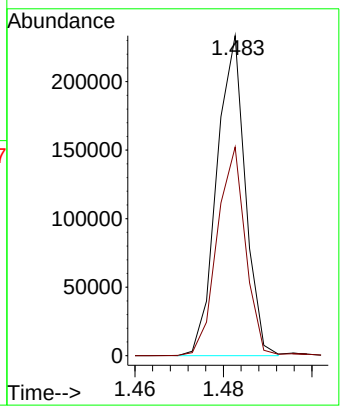


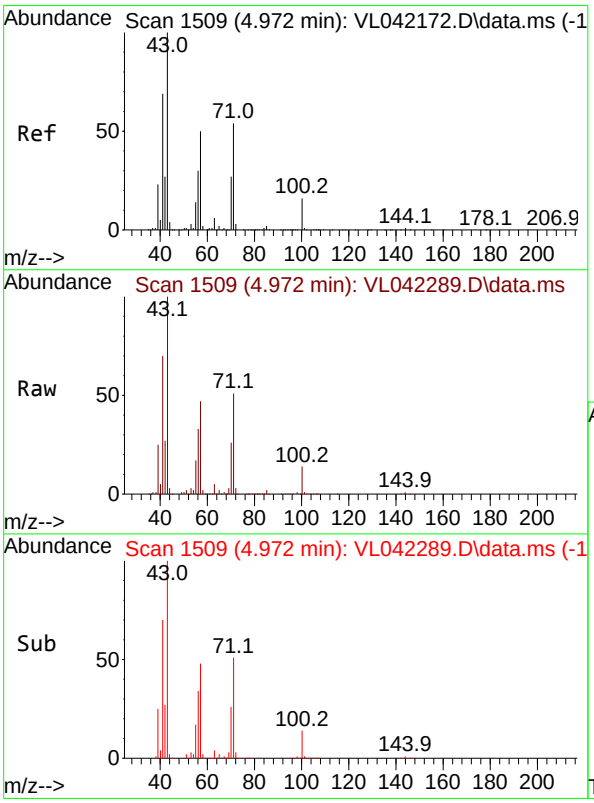

#9
Propene
Concen: 9.409 ppbv
RT: 1.483 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

Tgt Ion: 41 Resp: 104428

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 65.8 | 55.4 | 83.2 |

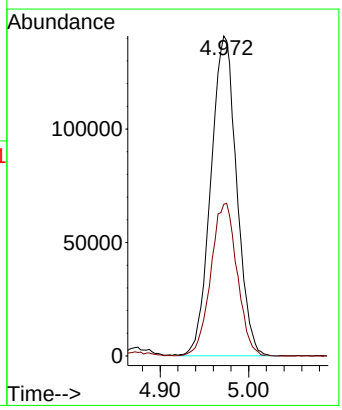


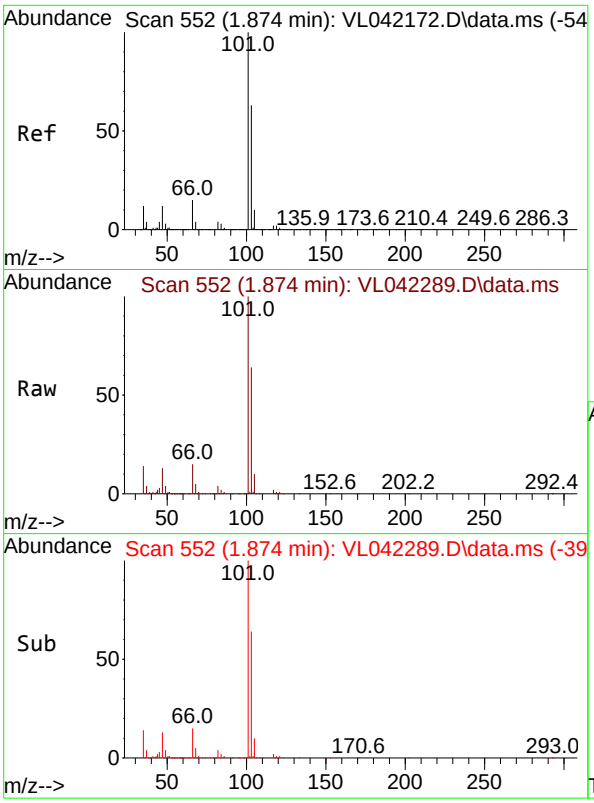




#10
Heptane
Concen: 9.665 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 43 Resp: 285337

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 48.7 | 39.4 | 59.2 |



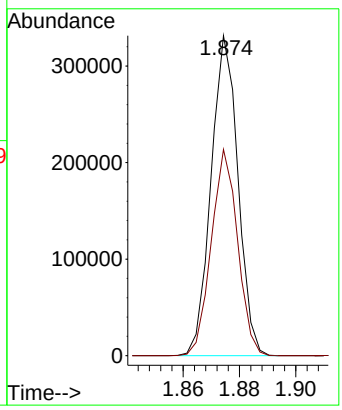


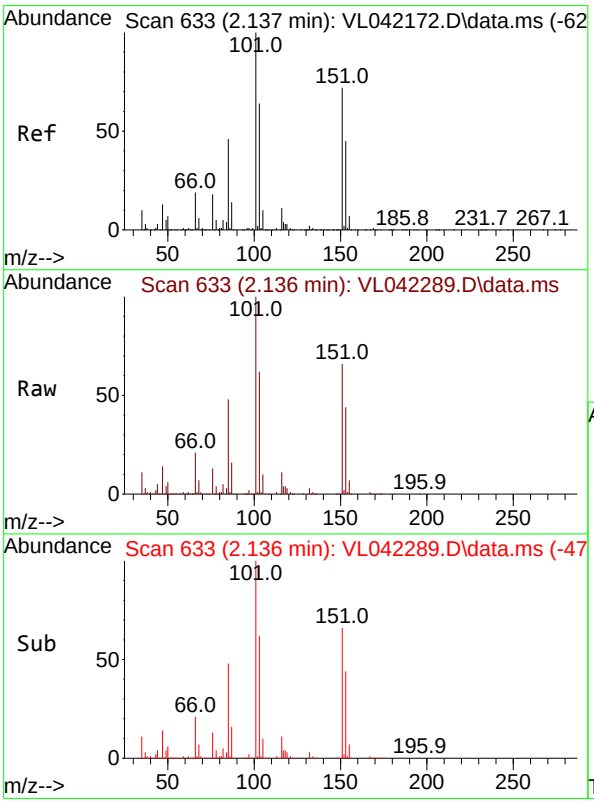

#11
Trichlorofluoromethane
Concen: 9.507 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

Tgt Ion:101 Resp: 219275

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.5 | 50.2 | 75.2 |

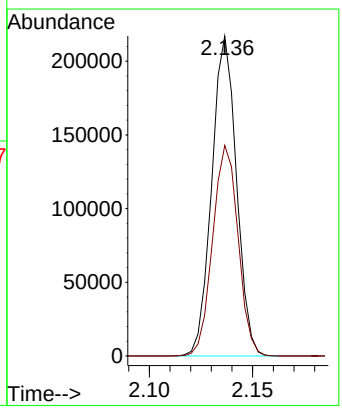


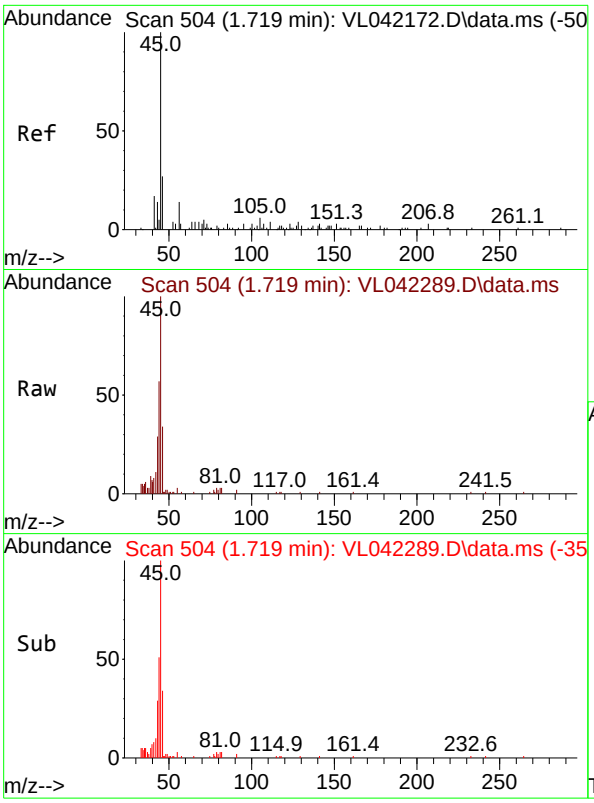




#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.518 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:101 Resp: 180430

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 67.6 | 57.1 | 85.7 |



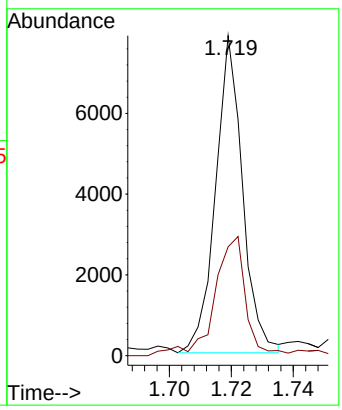


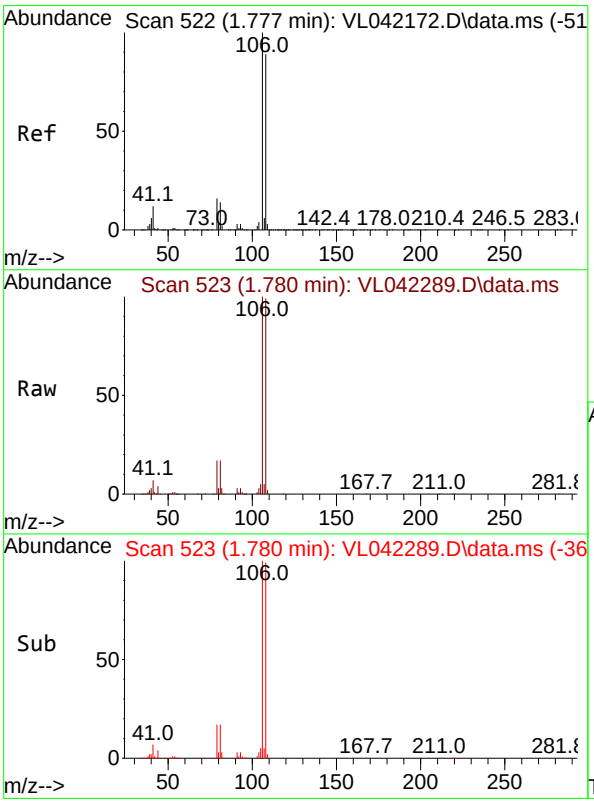

#13
Ethanol
Concen: 4.530 ppbv
RT: 1.719 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

Tgt Ion: 45 Resp: 4753

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 45.9 | 20.2 | 80.8 |

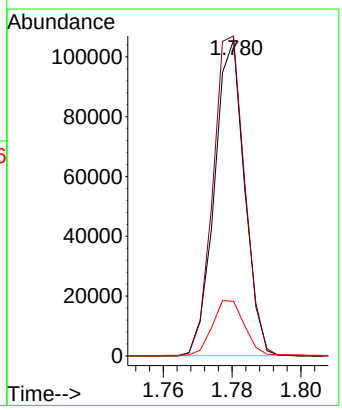


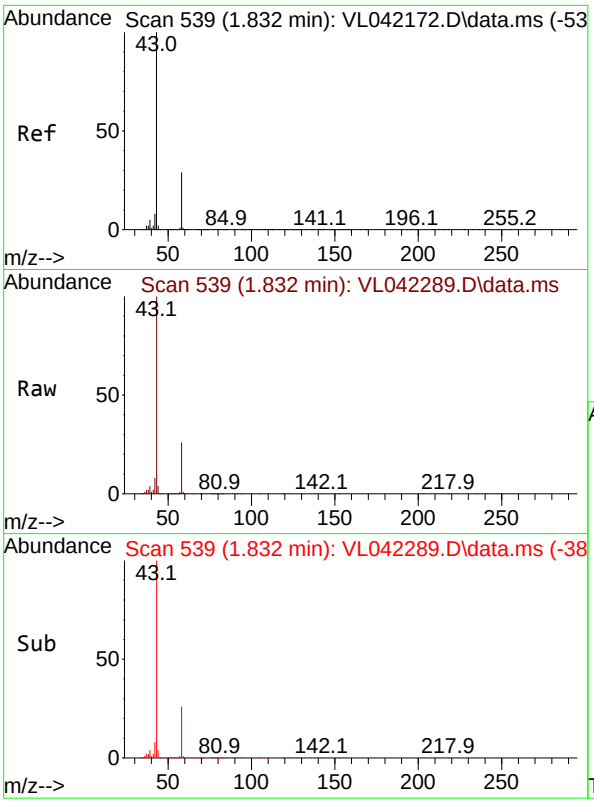




#14
Bromoethene
Concen: 8.837 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:108 Resp: 64175

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 106 | 106.5 | 86.8 | 130.2 |
| 79 | 20.4 | 15.0 | 22.6 |



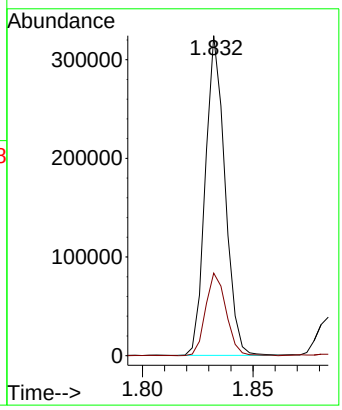


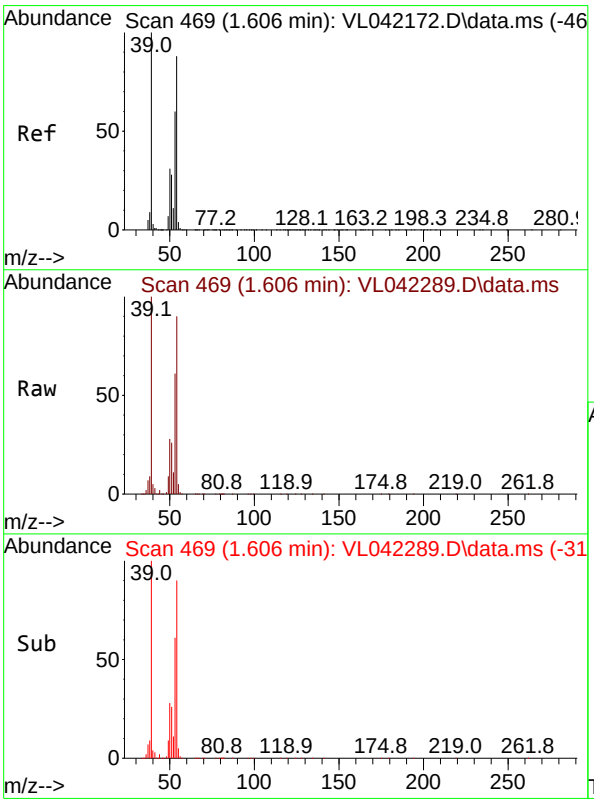

#15
Acetone
Concen: 8.915 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

Tgt Ion: 43 Resp: 200151

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 27.1 | 23.2 | 34.8 |

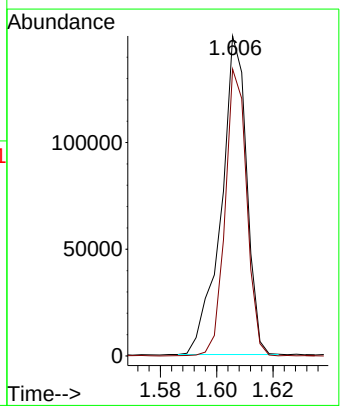


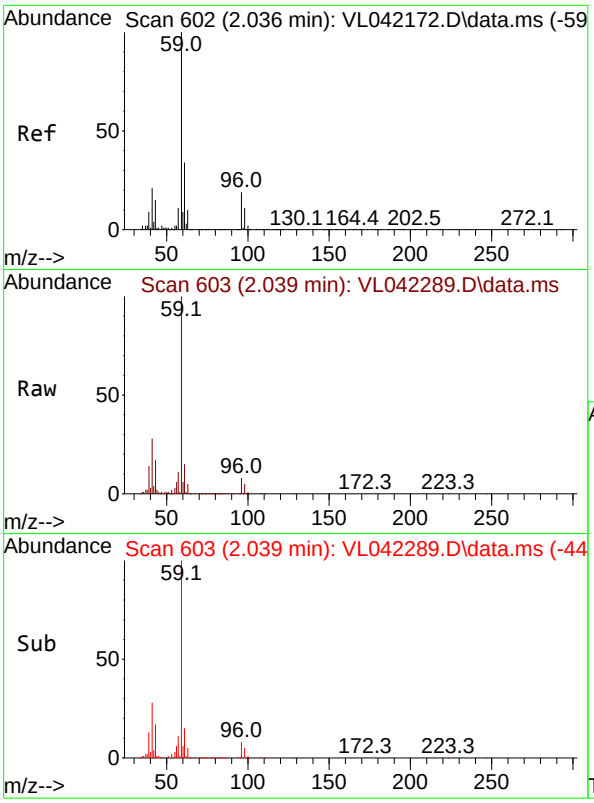




#16
1,3-Butadiene
Concen: 8.569 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 39 Resp: 93954

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 76.4 | 60.7 | 91.1 |



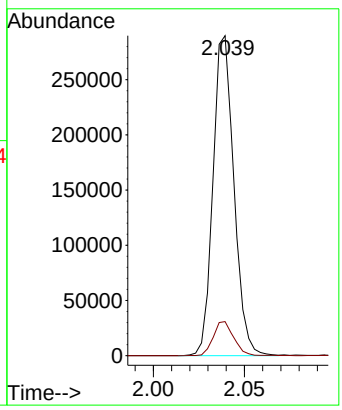


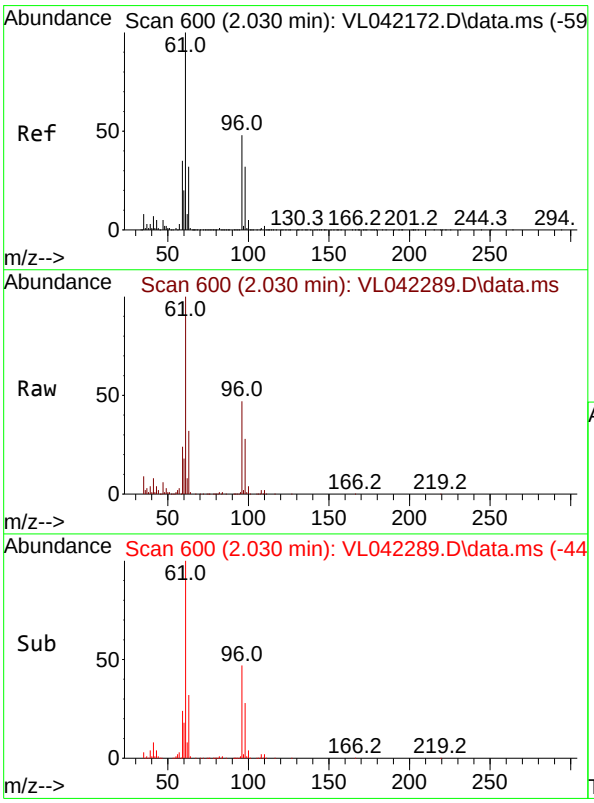

#17
tert-Butyl alcohol
Concen: 8.271 ppbv
RT: 2.039 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

Tgt Ion: 59 Resp: 231293

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.5 | 8.9 | 13.3 |

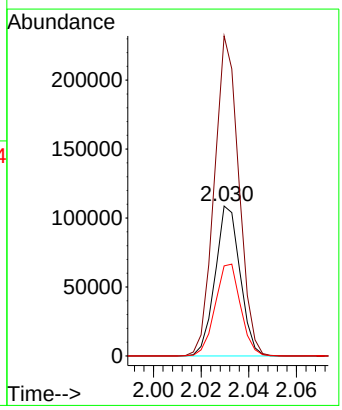


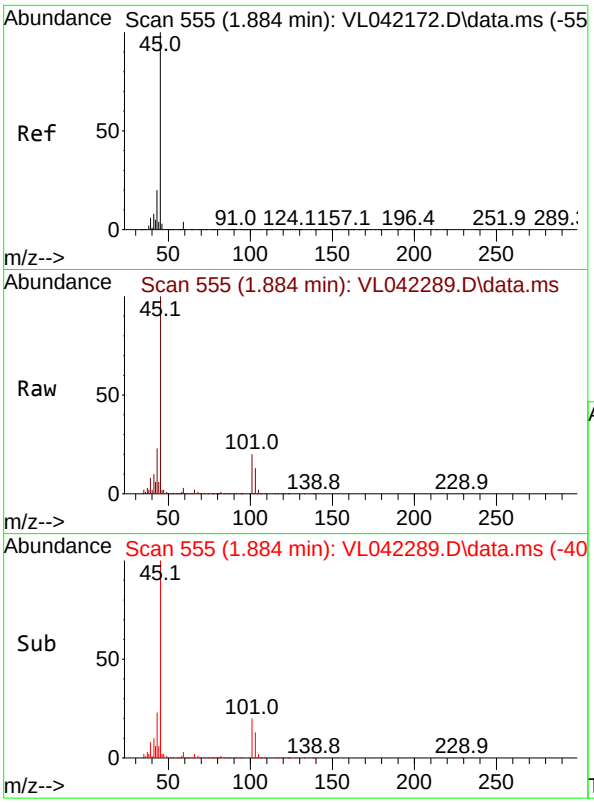




#18
1,1-Dichloroethene
Concen: 8.912 ppbv
RT: 2.030 min Scan# 600
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 96 Resp: 78979

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 213.3 | 167.6 | 251.4 |
| 98 | 60.0 | 53.5 | 80.3 |



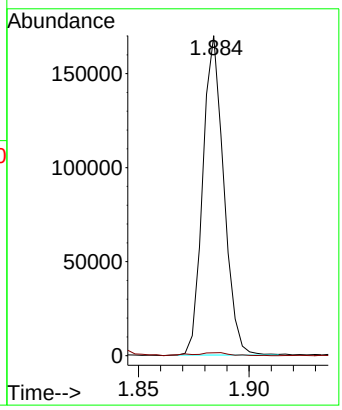


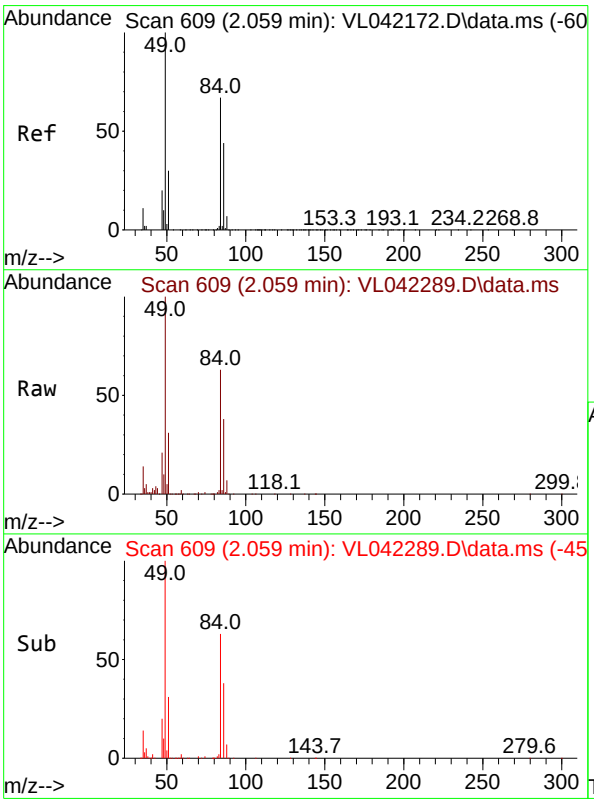

#19
Isopropyl Alcohol
Concen: 8.835 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

Tgt Ion: 45 Resp: 111918

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 48.5 | 36.9 | 55.3 |

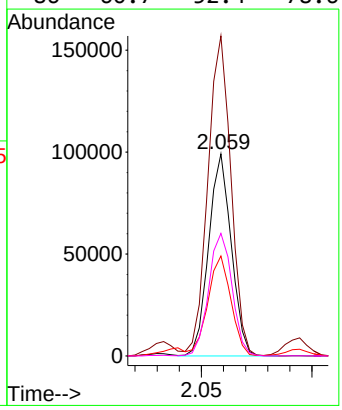


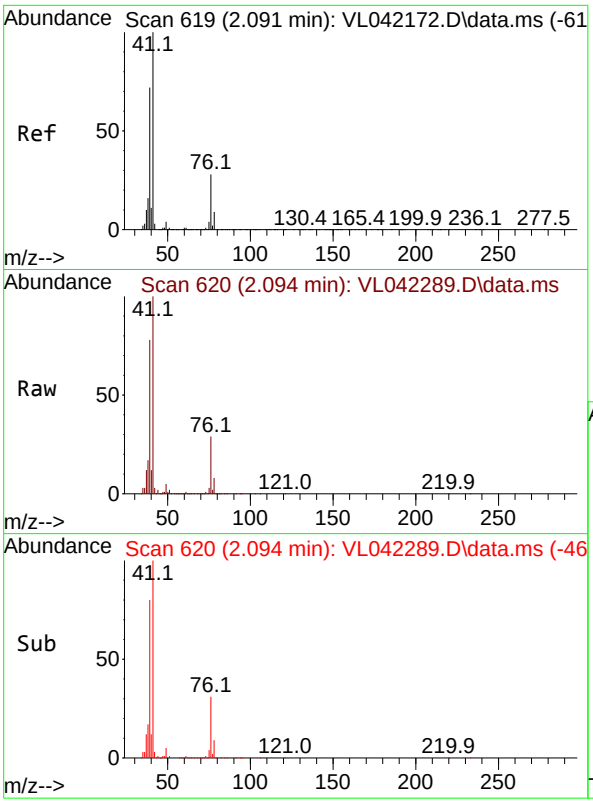




#20
Methylene Chloride
Concen: 8.444 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 84 Resp: 70611

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 156.0 | 120.2 | 180.4 |
| 51 | 48.6 | 37.4 | 56.0 |
| 86 | 60.7 | 52.4 | 78.6 |



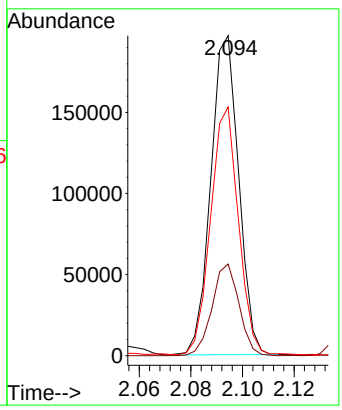


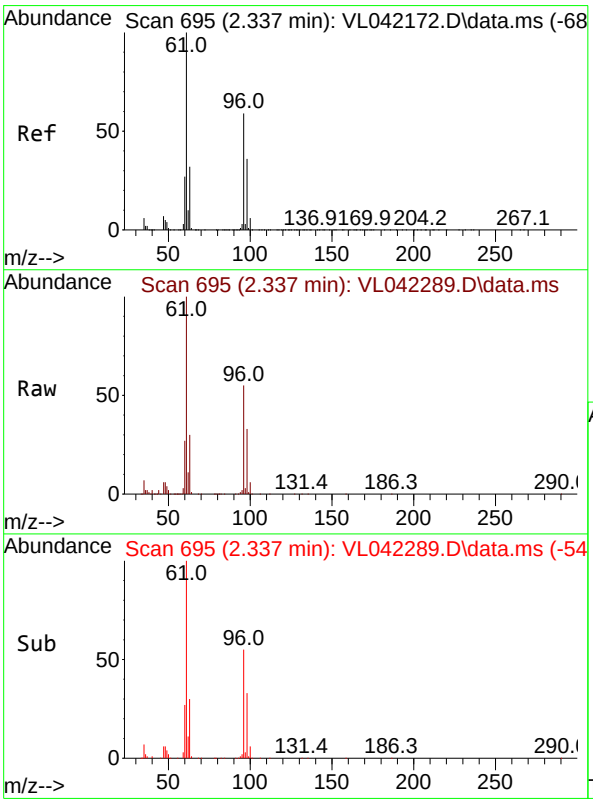

#21
Allyl Chloride
Concen: 9.308 ppbv
RT: 2.094 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

Tgt Ion: 41 Resp: 147389

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 27.7 | 24.1 | 36.1 |
| 39 | 77.7 | 61.1 | 91.7 |

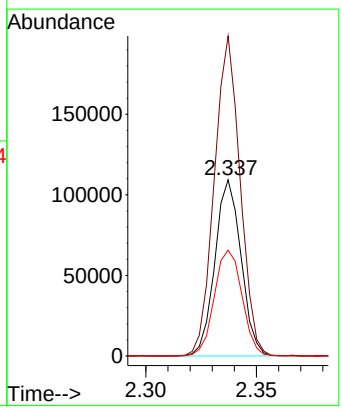


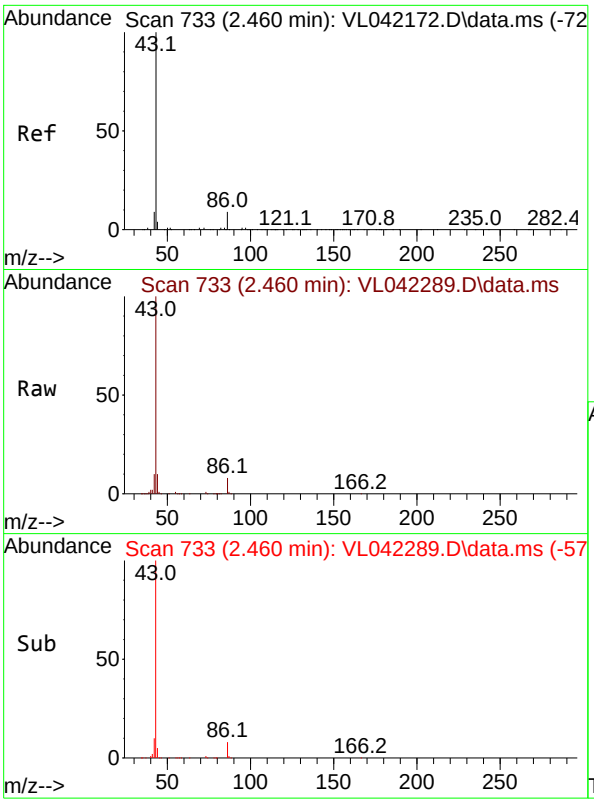




#22
trans-1,2-Dichloroethene
Concen: 8.775 ppbv
RT: 2.337 min Scan# 695
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 96 Resp: 89877

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 181.6 | 136.6 | 204.8 |
| 98 | 60.0 | 49.4 | 74.2 |



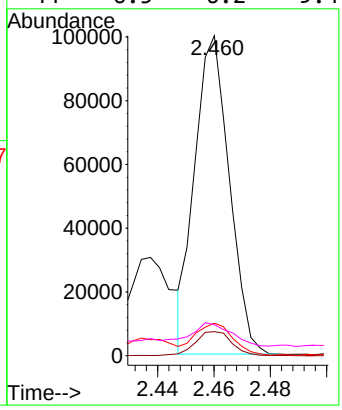


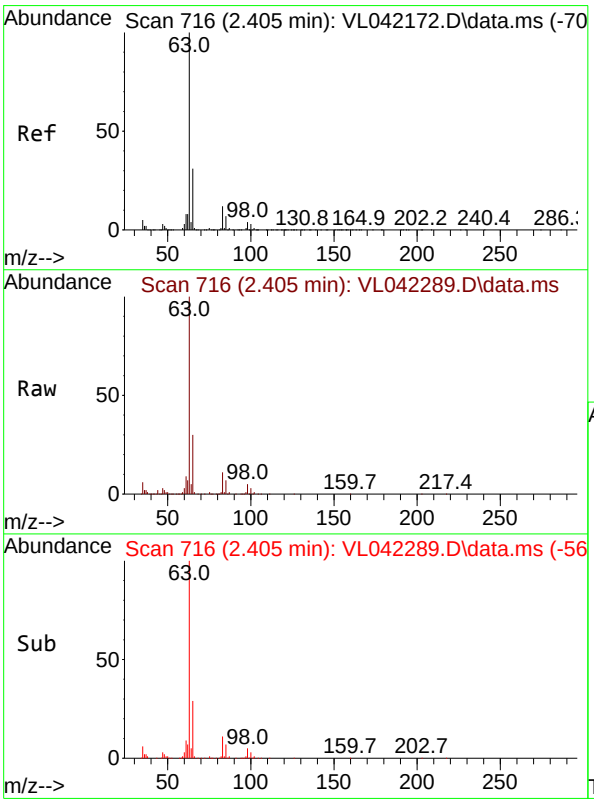

#23
Vinyl Acetate
Concen: 8.750 ppbv
RT: 2.460 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

Tgt Ion: 43 Resp: 85028

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 7.5 | 5.5 | 8.3 |
| 42 | 9.9 | 8.6 | 13.0 |
| 44 | 6.5 | 6.2 | 9.4 |

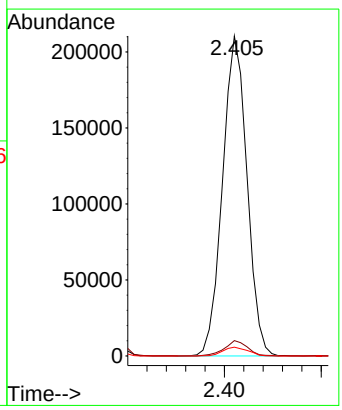


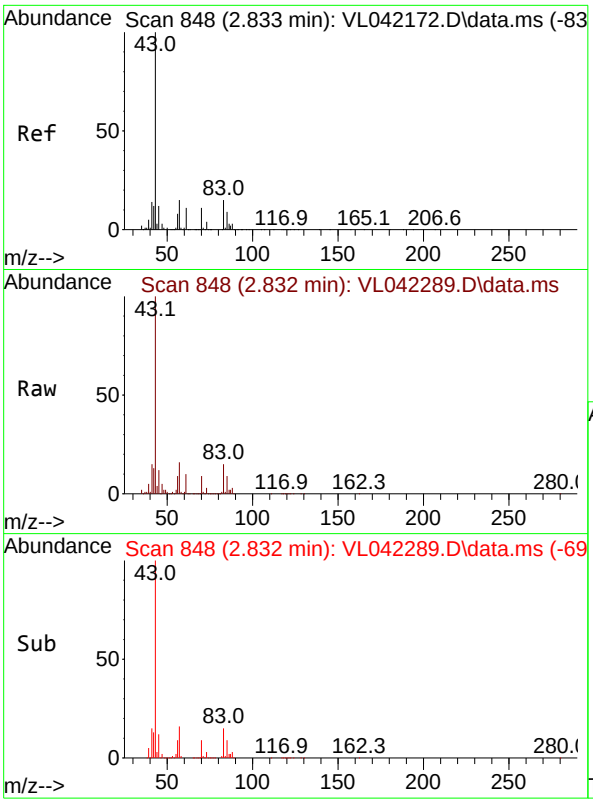




#24
1,1-Dichloroethane
Concen: 9.733 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 63 Resp: 184801

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 4.8 | 2.3 | 6.8 |
| 100 | 2.8 | 1.6 | 4.7 |



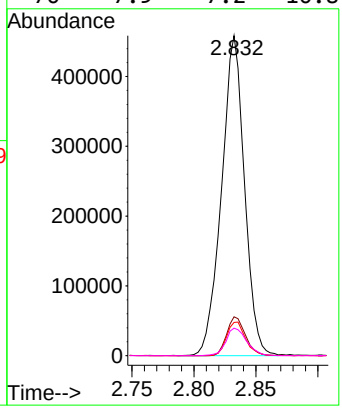


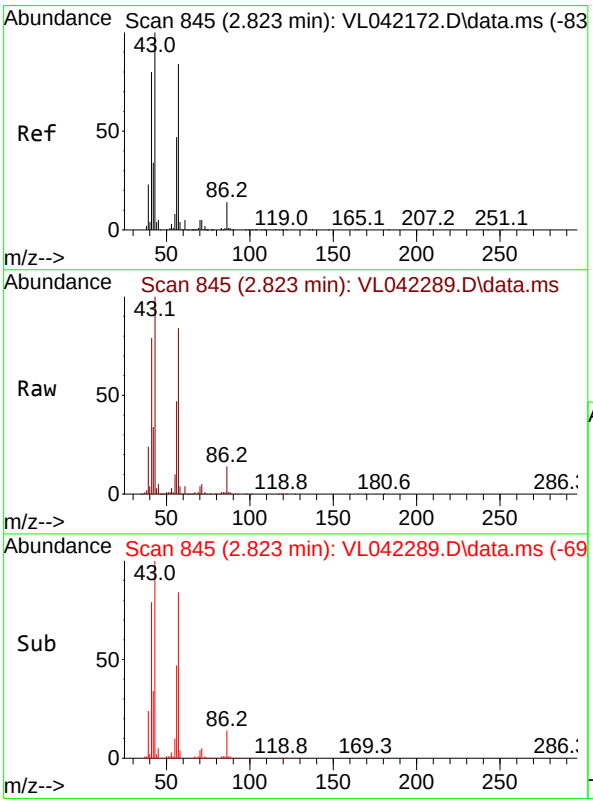

#25
Ethyl Acetate
Concen: 10.137 ppbv
RT: 2.832 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

Tgt Ion: 43 Resp: 590692

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 10.0 | 8.2 | 12.2 |
| 61 | 8.7 | 7.3 | 10.9 |
| 70 | 7.9 | 7.2 | 10.8 |

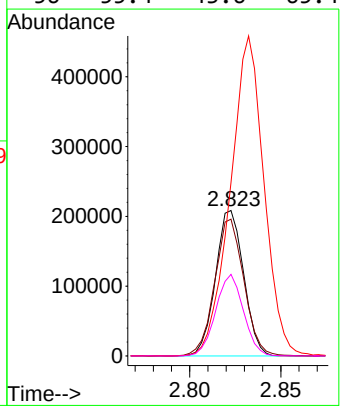


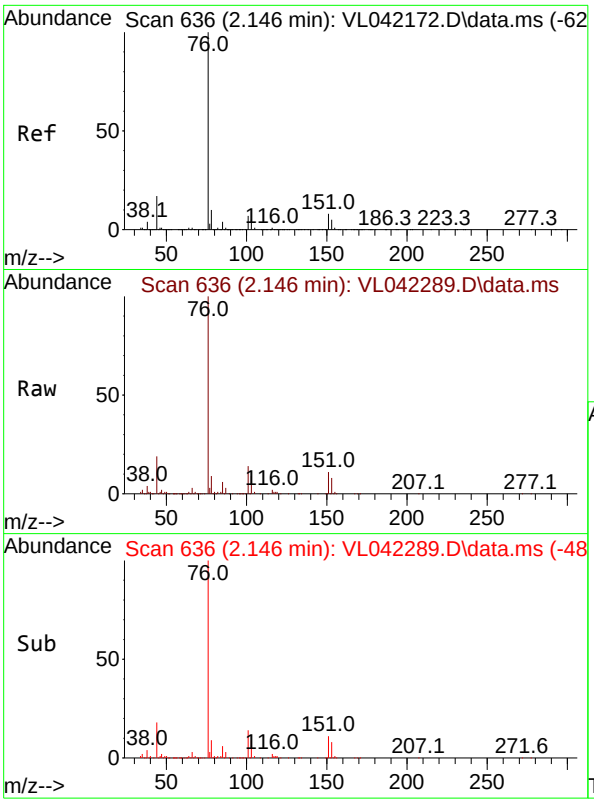




#26
Hexane
Concen: 9.943 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 57 Resp: 223800

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 97.7 | 76.6 | 114.8 |
| 43 | 264.7 | 207.8 | 311.8 |
| 56 | 55.4 | 43.6 | 65.4 |



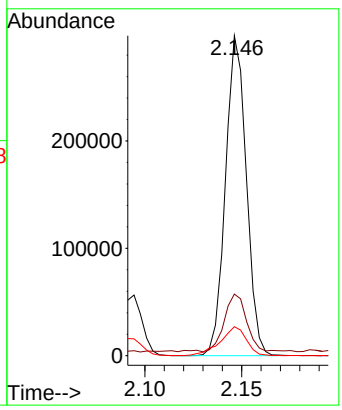


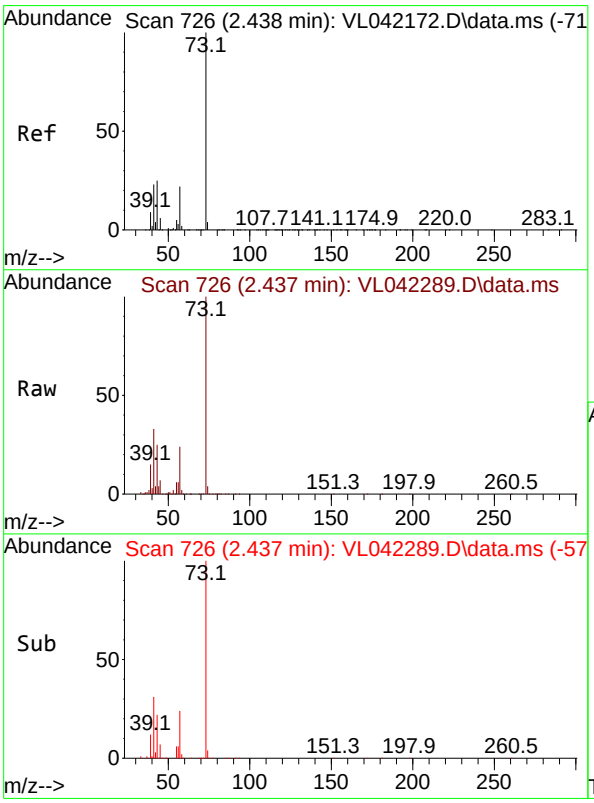

#27
Carbon Disulfide
Concen: 9.267 ppbv
RT: 2.146 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

Tgt Ion: 76 Resp: 223675

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 19.6 | 14.7 | 22.1 |
| 78 | 11.3 | 9.3 | 13.9 |

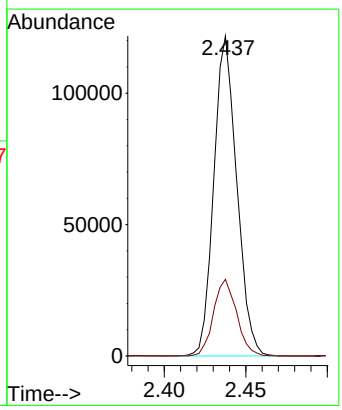


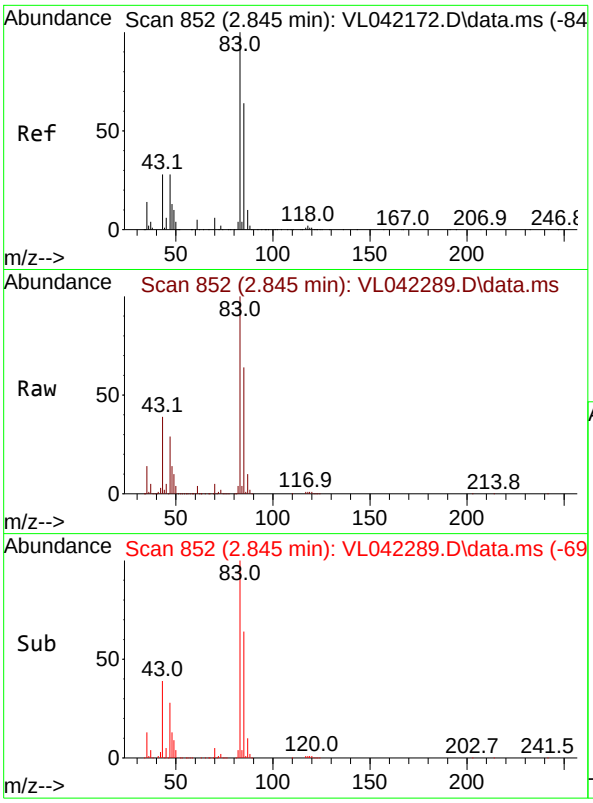




#28
Methyl tert-Butyl Ether
Concen: 8.494 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 73 Resp: 119034

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 24.2 | 20.5 | 30.7 |



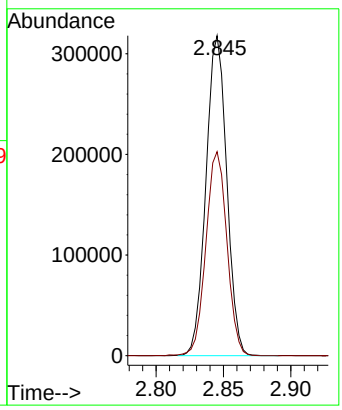


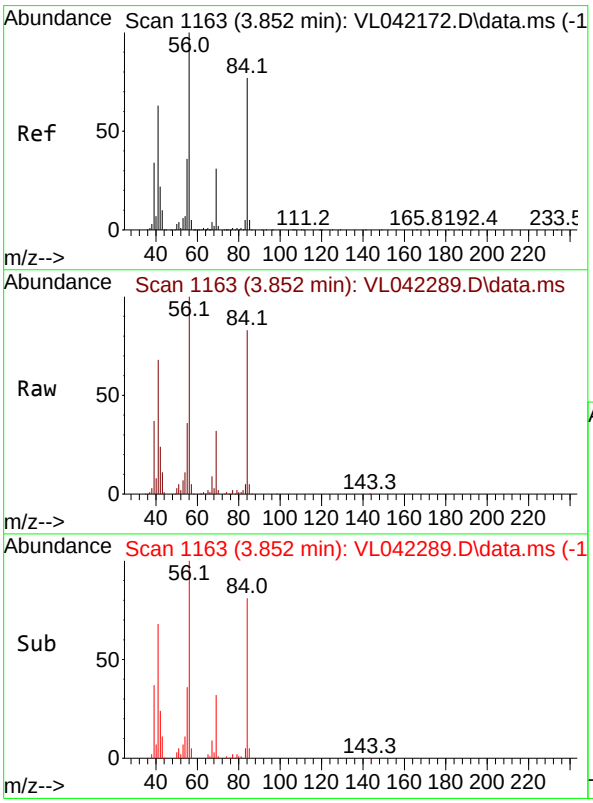

#29
Chloroform
Concen: 10.353 ppbv
RT: 2.845 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

Tgt Ion: 83 Resp: 341042

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.8 | 51.4 | 77.2 |

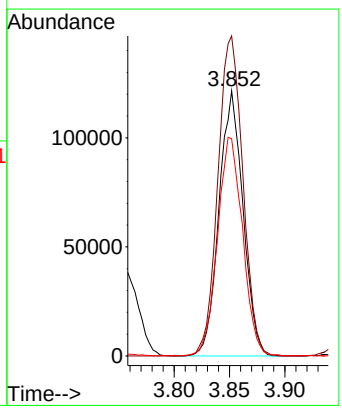


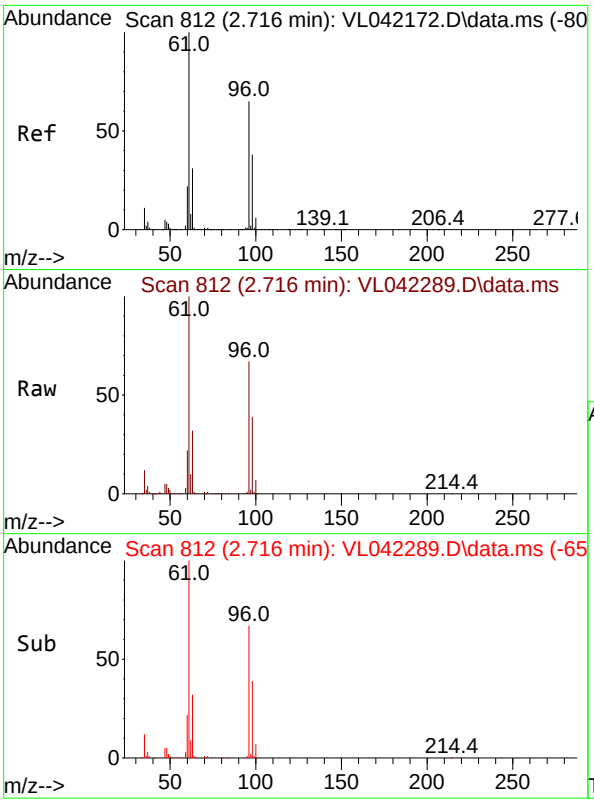




#30
Cyclohexane
Concen: 9.357 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 84 Resp: 182880

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 125.8 | 102.8 | 154.2 |
| 41 | 86.5 | 66.5 | 99.7 |



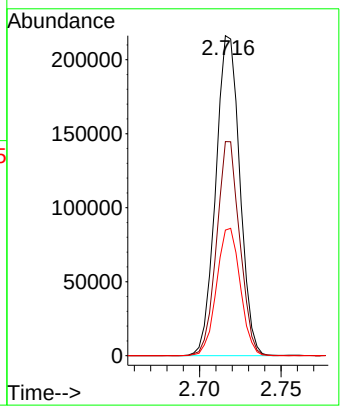


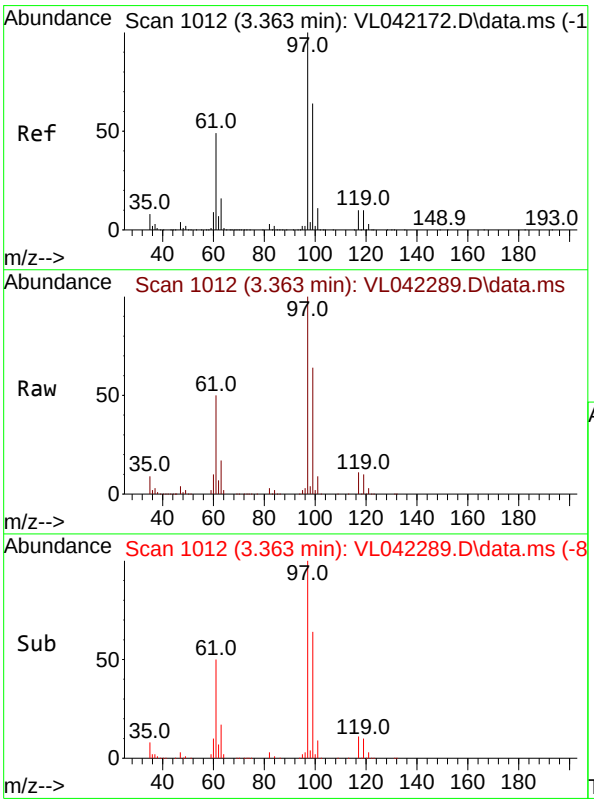

#31
cis-1,2-Dichloroethene
Concen: 9.710 ppbv
RT: 2.716 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

Tgt Ion: 61 Resp: 221881

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 66.9 | 51.8 | 77.8 |
| 98 | 39.2 | 30.6 | 46.0 |

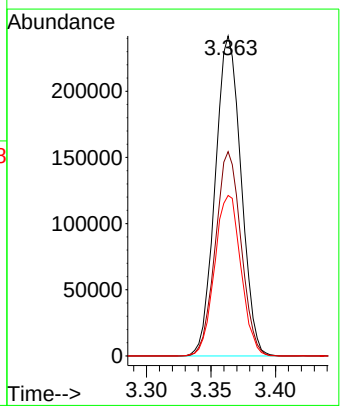


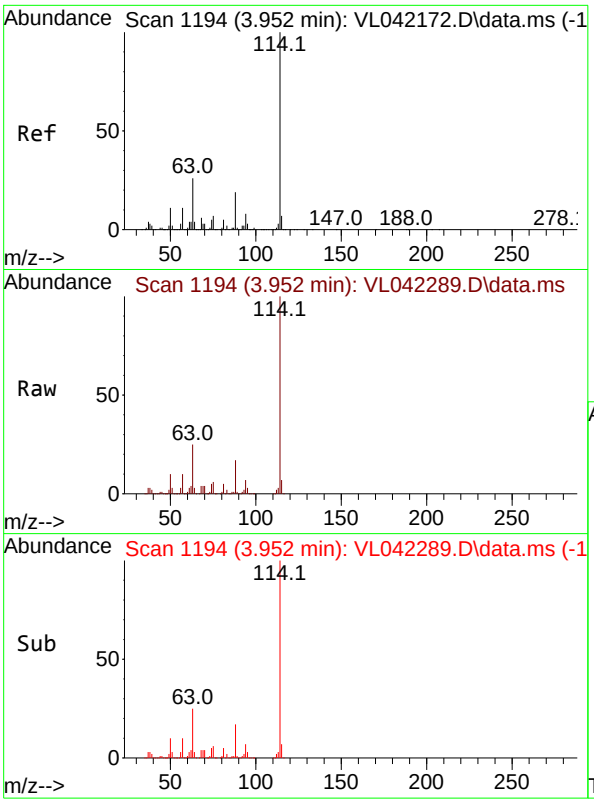




#32
1,1,1-Trichloroethane
Concen: 8.923 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 97 Resp: 336493

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.4 | 51.5 | 77.3 |
| 61 | 51.2 | 38.7 | 58.1 |



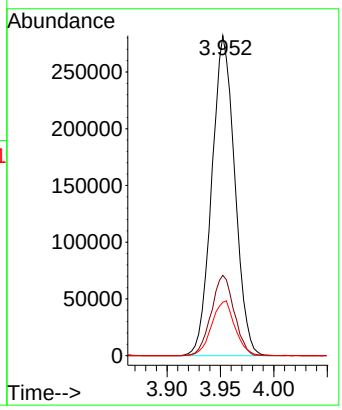


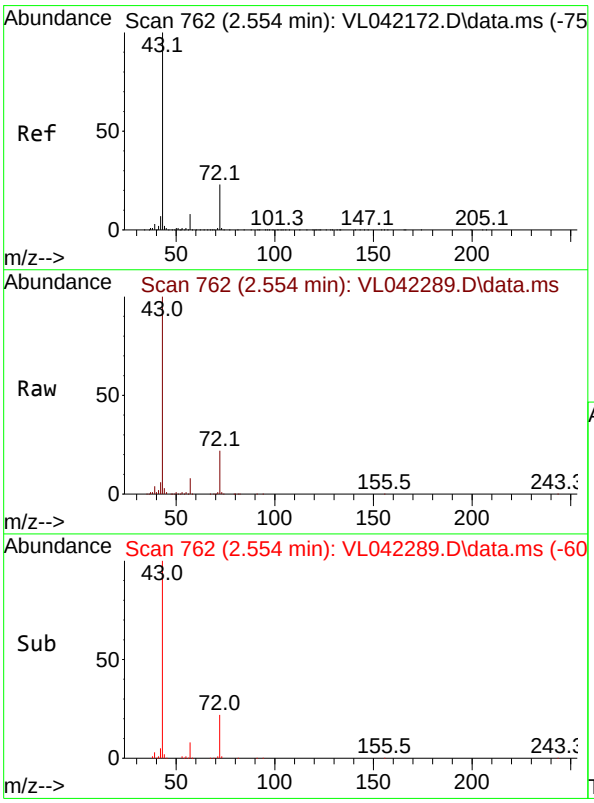

#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

Tgt Ion:114 Resp: 421845

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.2 | 20.7 | 31.1 |
| 88 | 17.3 | 15.0 | 22.4 |

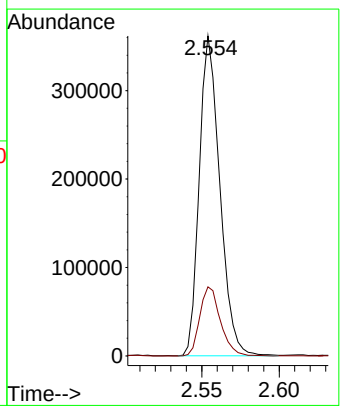


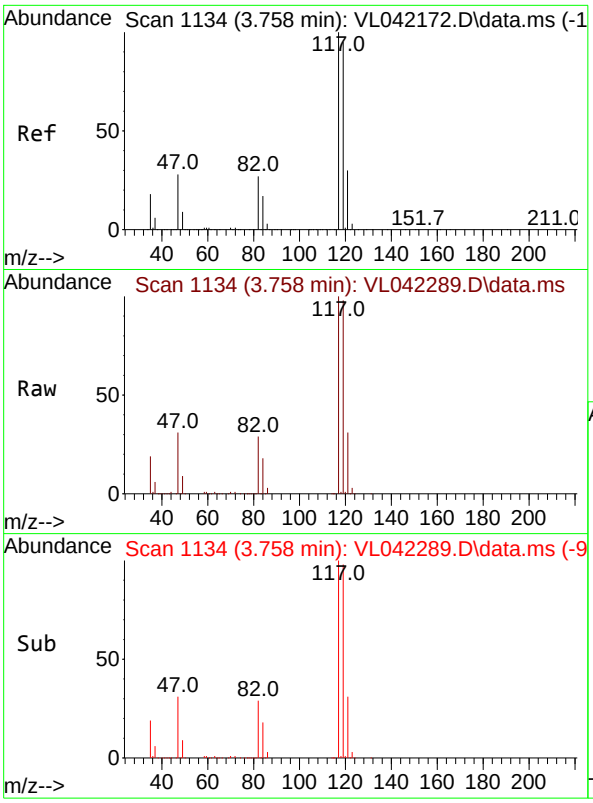




#34
2-Butanone
Concen: 10.940 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 43 Resp: 334636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 21.7 | 18.2 | 27.2 |



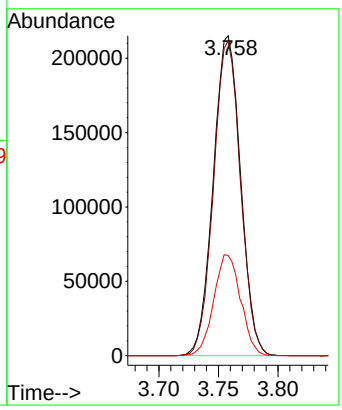


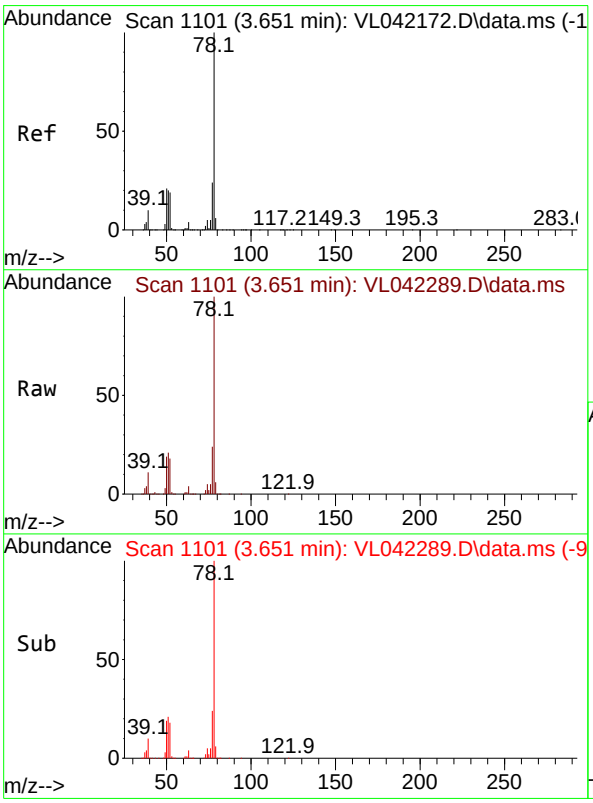

#35
Carbon Tetrachloride
Concen: 10.420 ppbv
RT: 3.758 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

Tgt Ion:117 Resp: 343376

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 98.4 | 76.2 | 114.2 |
| 121 | 31.3 | 24.2 | 36.4 |

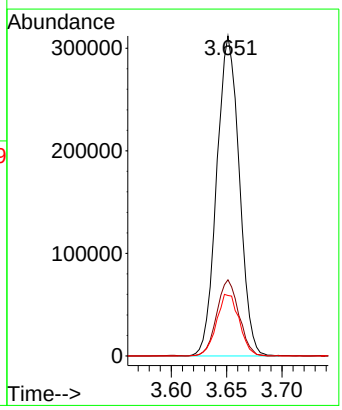


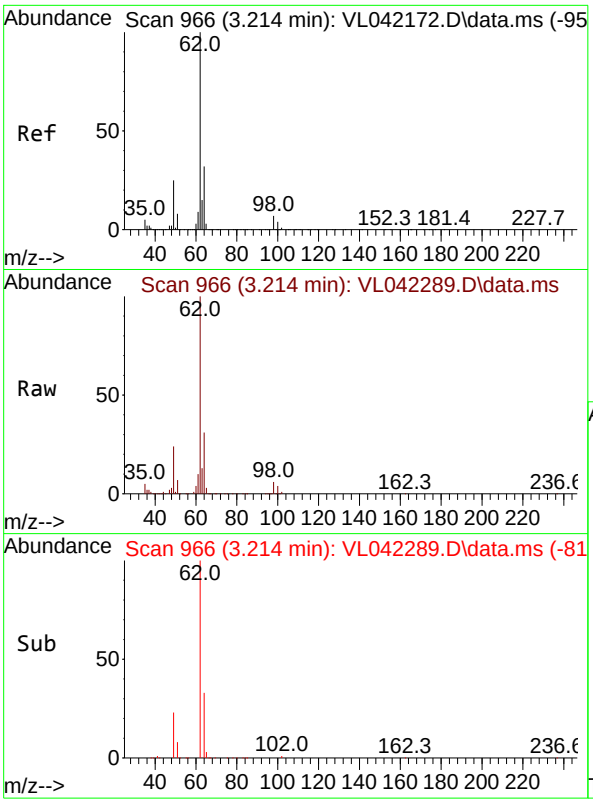




#36
Benzene
Concen: 10.586 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 78 Resp: 442736

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.7 | 19.1 | 28.7 |
| 50 | 18.9 | 16.6 | 24.8 |



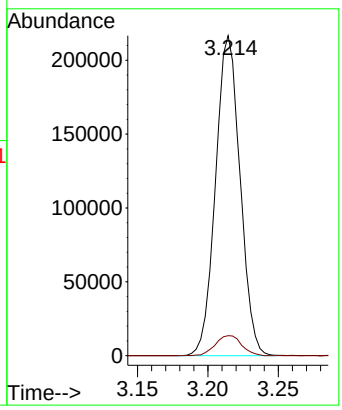


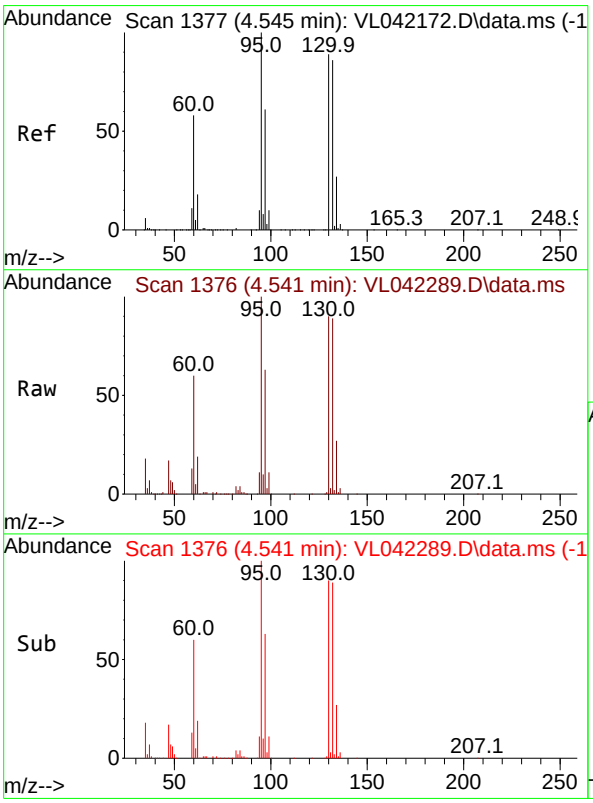

#37
1,2-Dichloroethane
Concen: 10.965 ppbv
RT: 3.214 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

Tgt Ion: 62 Resp: 262528

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 6.8 | 5.4 | 8.2 |

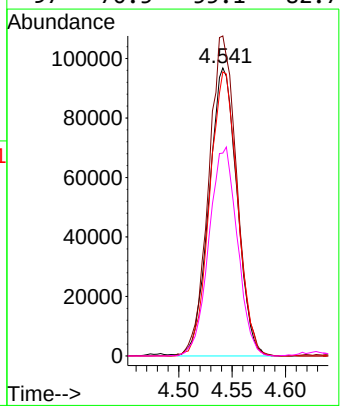


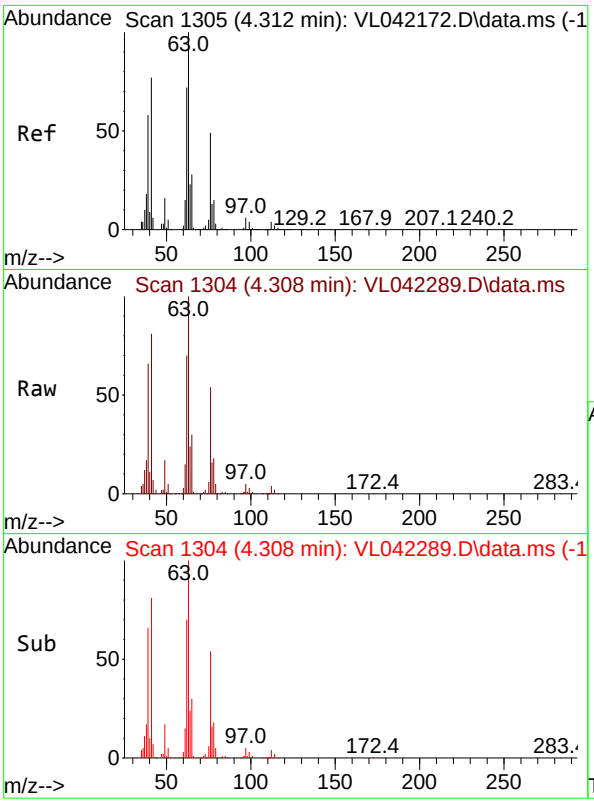




#38
Trichloroethene
Concen: 10.111 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. -0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:130 Resp: 176435

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 111.1 | 89.8 | 134.8 |
| 132 | 98.6 | 77.4 | 116.2 |
| 97 | 70.5 | 55.1 | 82.7 |



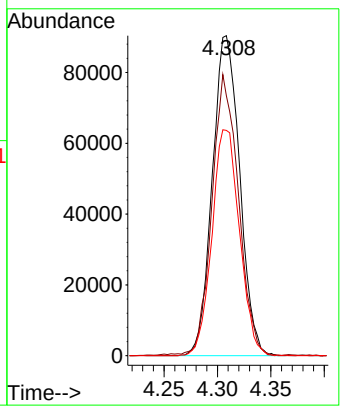


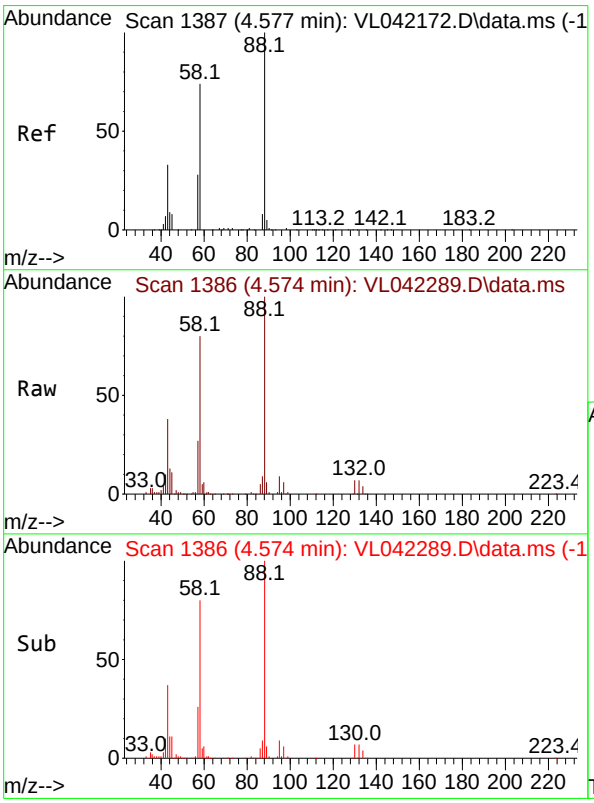

#39
1,2-Dichloropropane
Concen: 10.578 ppbv
RT: 4.308 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

Tgt Ion: 63 Resp: 161101

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 81.1 | 61.7 | 92.5 |
| 62 | 70.4 | 57.6 | 86.4 |

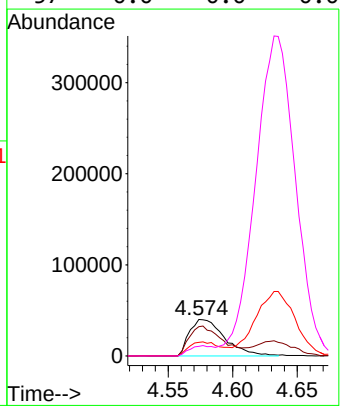


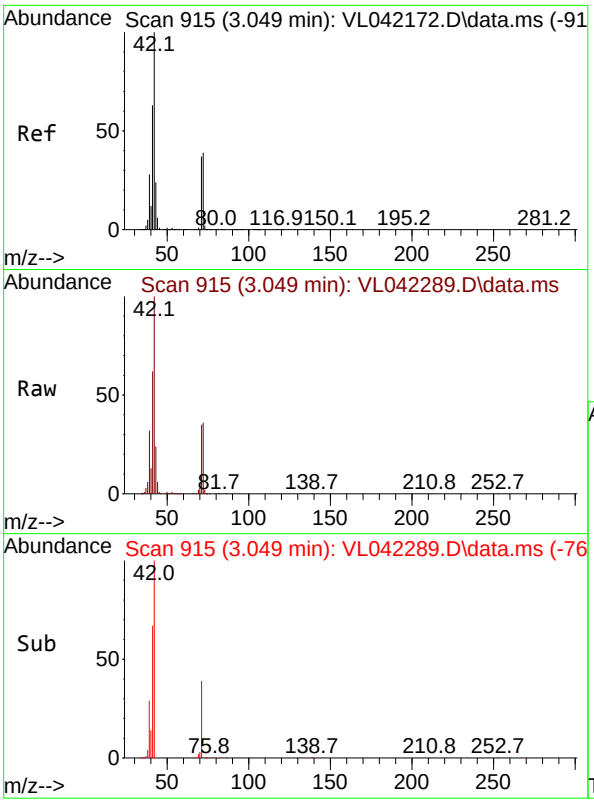




#40
1,4-Dioxane
Concen: 9.441 ppbv
RT: 4.574 min Scan# 1386
Delta R.T. -0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 88 Resp: 76321

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 80.1 | 62.7 | 94.1 |
| 43 | 32.6 | 23.0 | 34.4 |
| 57 | 0.0 | 0.0 | 0.0 |



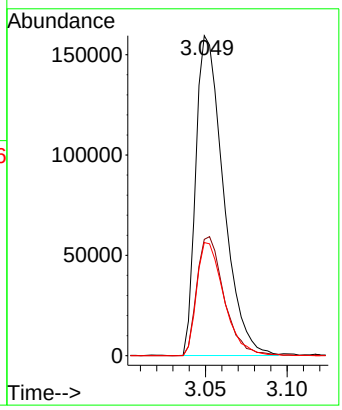


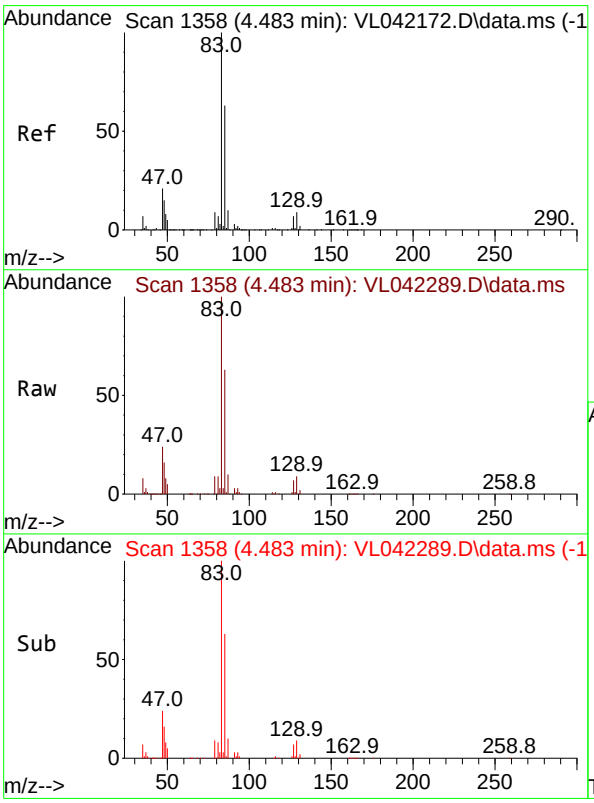

#41
Tetrahydrofuran
Concen: 10.661 ppbv
RT: 3.049 min Scan# 91
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

Tgt Ion: 42 Resp: 187790

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 36.8 | 31.4 | 47.0 |
| 71 | 35.0 | 30.2 | 45.4 |

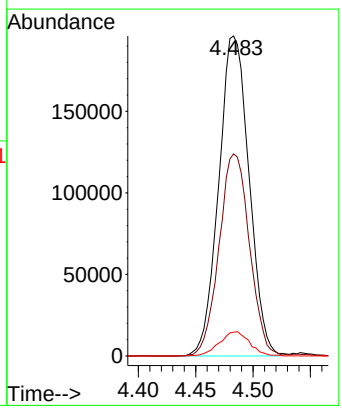


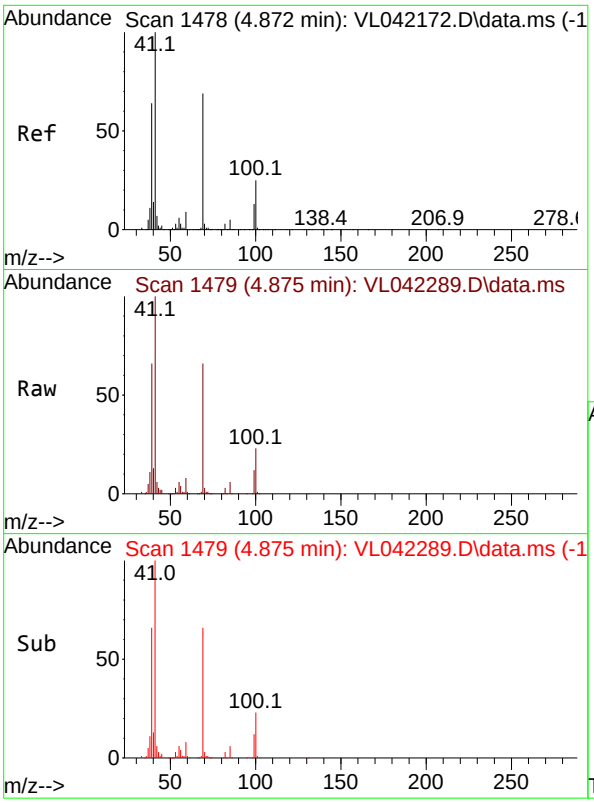




#42
Bromodichloromethane
Concen: 10.927 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 83 Resp: 360662

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.1 | 50.5 | 75.7 |
| 127 | 7.4 | 5.9 | 8.9 |



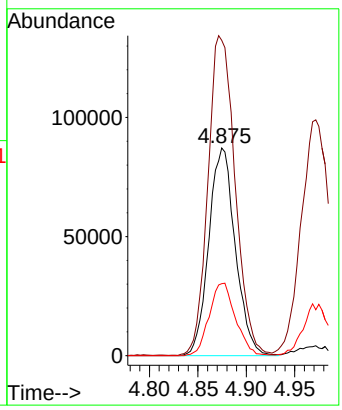


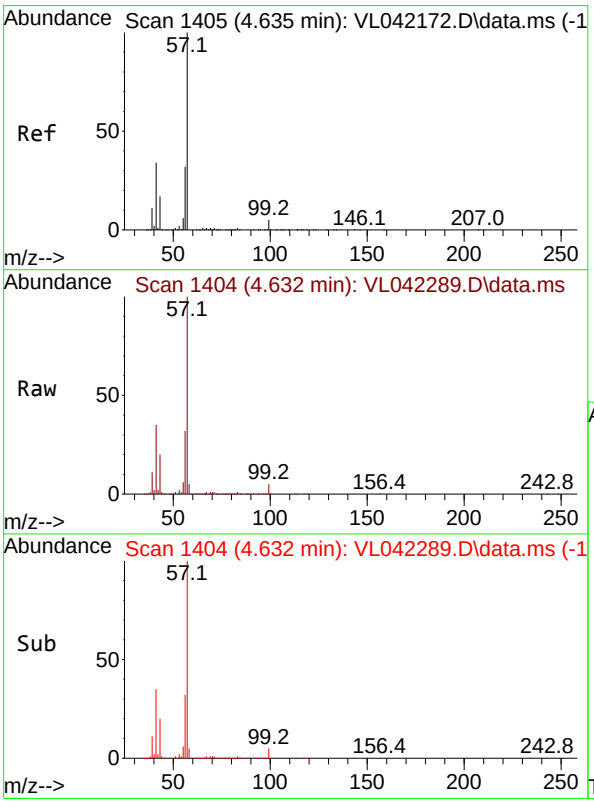

#43
Methyl Methacrylate
Concen: 9.375 ppbv
RT: 4.875 min Scan# 14
Delta R.T. 0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

Tgt Ion: 69 Resp: 165984

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 157.7 | 123.8 | 185.6 |
| 100 | 34.7 | 28.4 | 42.6 |

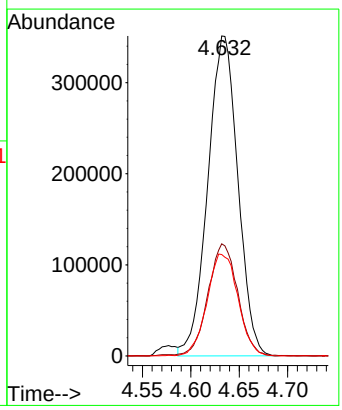


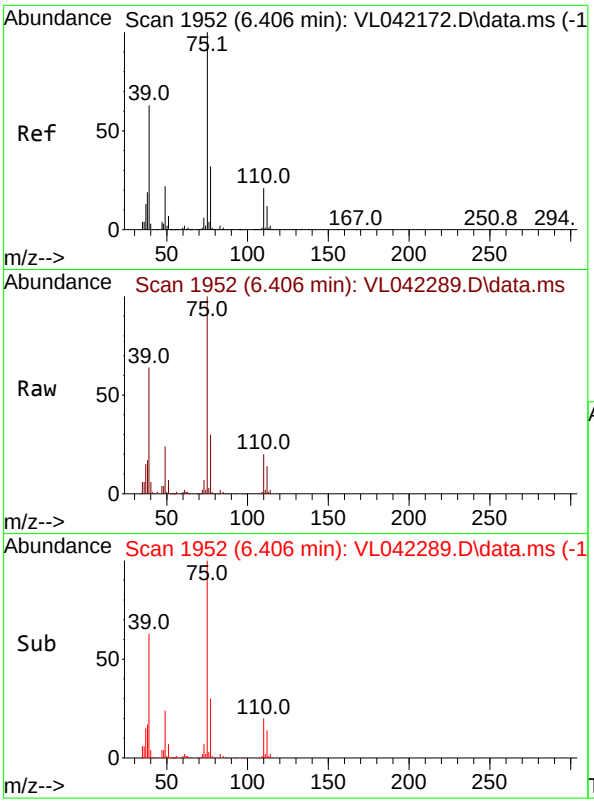




#44
2,2,4-Trimethylpentane
Concen: 10.723 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. -0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 57 Resp: 757855

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 35.2 | 26.8 | 40.2 |
| 56 | 32.9 | 25.6 | 38.4 |



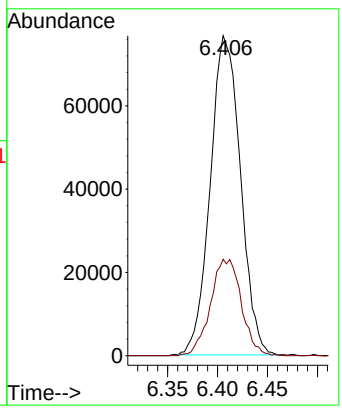


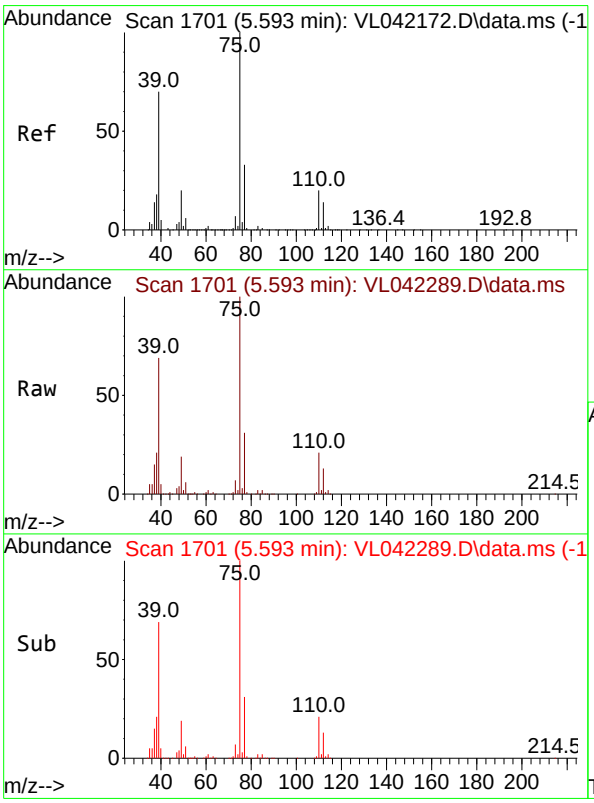

#45
t-1,3-Dichloropropene
Concen: 8.489 ppbv
RT: 6.406 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

Tgt Ion: 75 Resp: 161245

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.2 | 26.0 | 39.0 |

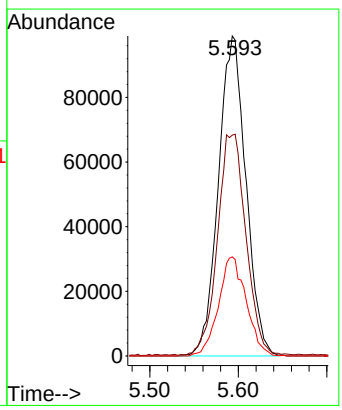


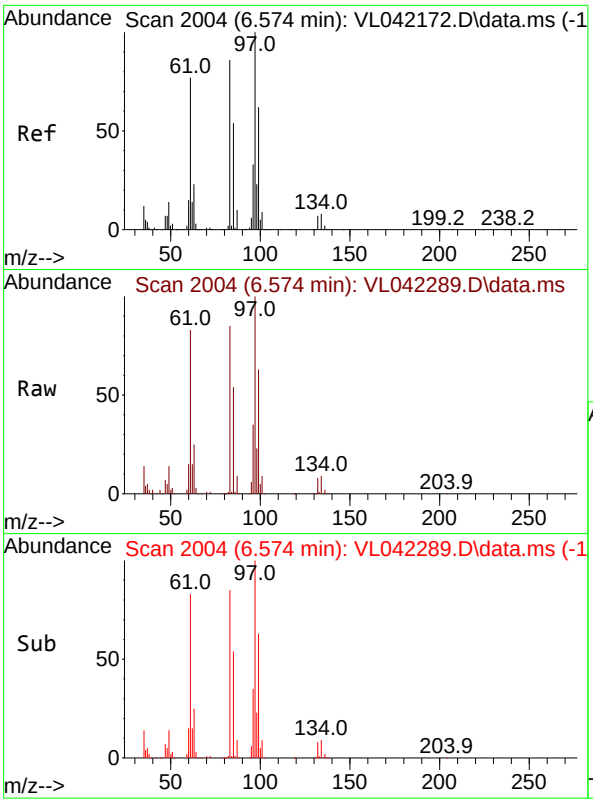




#46
cis-1,3-Dichloropropene
Concen: 9.172 ppbv
RT: 5.593 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 75 Resp: 213566

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 39 | 68.8 | 55.8 | 83.6 |
| 77 | 30.9 | 26.0 | 39.0 |



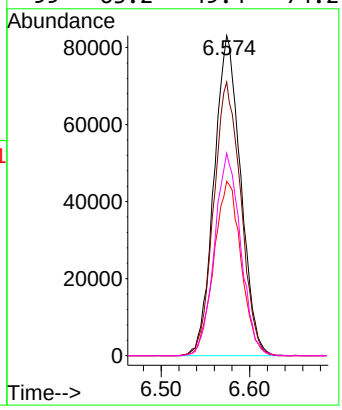


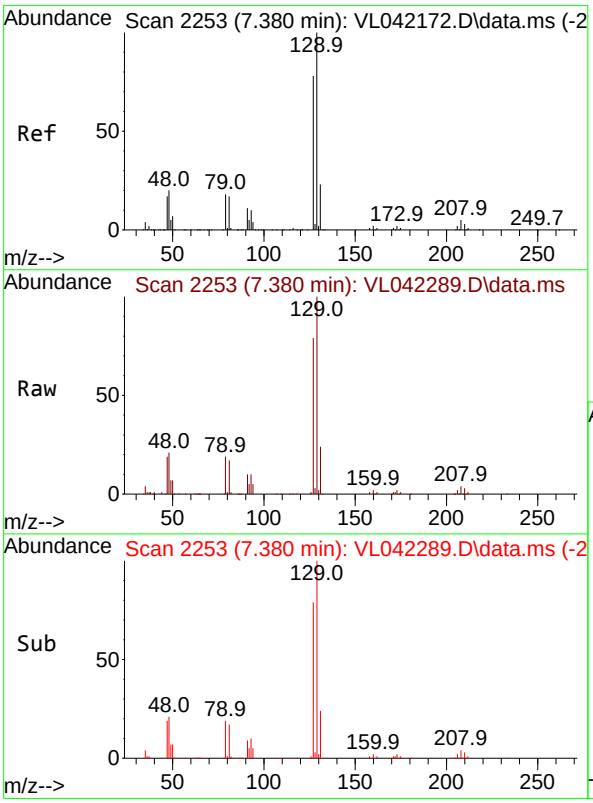

#47
1,1,2-Trichloroethane
Concen: 10.777 ppbv
RT: 6.574 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

Tgt Ion: 97 Resp: 173506

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 85.5 | 69.2 | 103.8 |
| 85 | 54.4 | 43.1 | 64.7 |
| 99 | 63.2 | 49.4 | 74.2 |

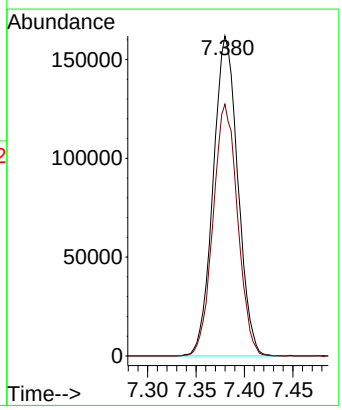


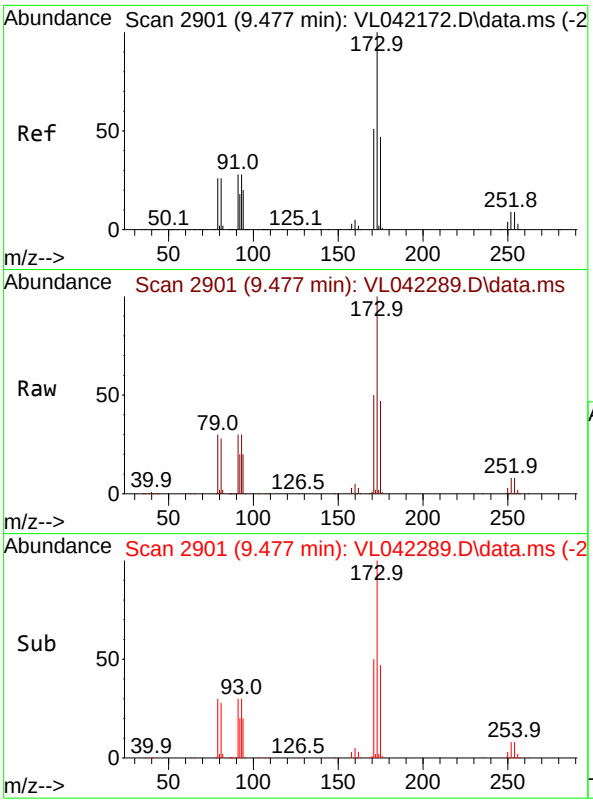




#48
Dibromochloromethane
Concen: 10.516 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:129 Resp: 286938

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.2 | 39.1 | 117.2 |



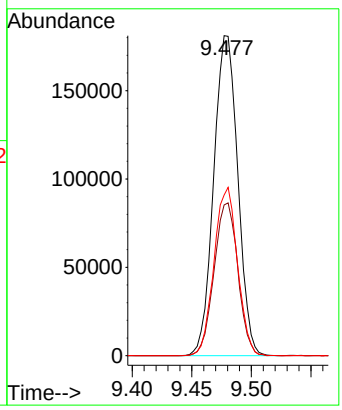


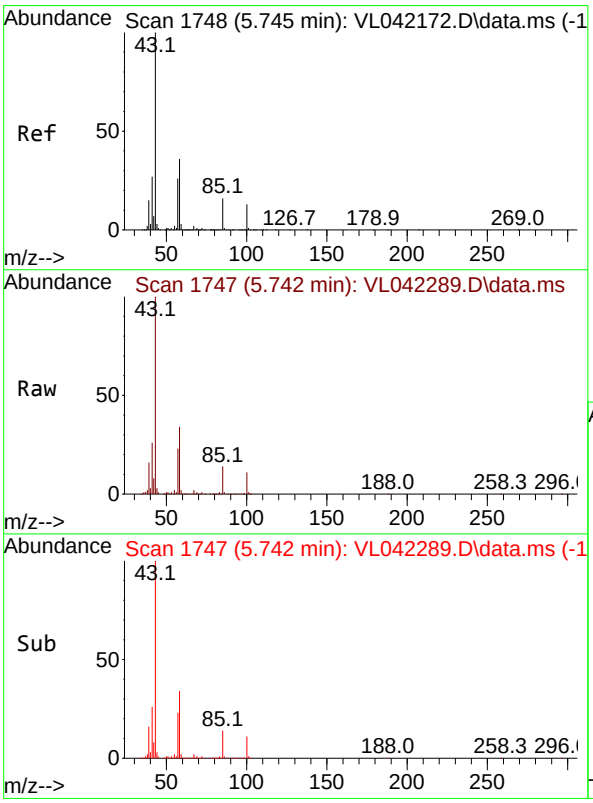

#49
Bromoform
Concen: 10.386 ppbv
RT: 9.477 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

Tgt Ion:173 Resp: 254430

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 47.2 | 38.6 | 57.8 |
| 171 | 51.2 | 41.8 | 62.6 |

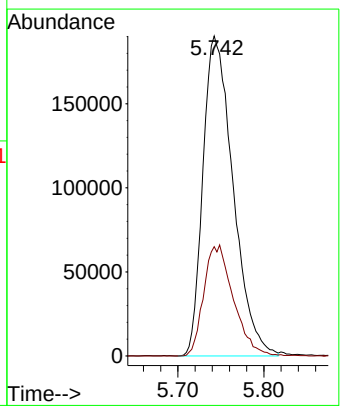


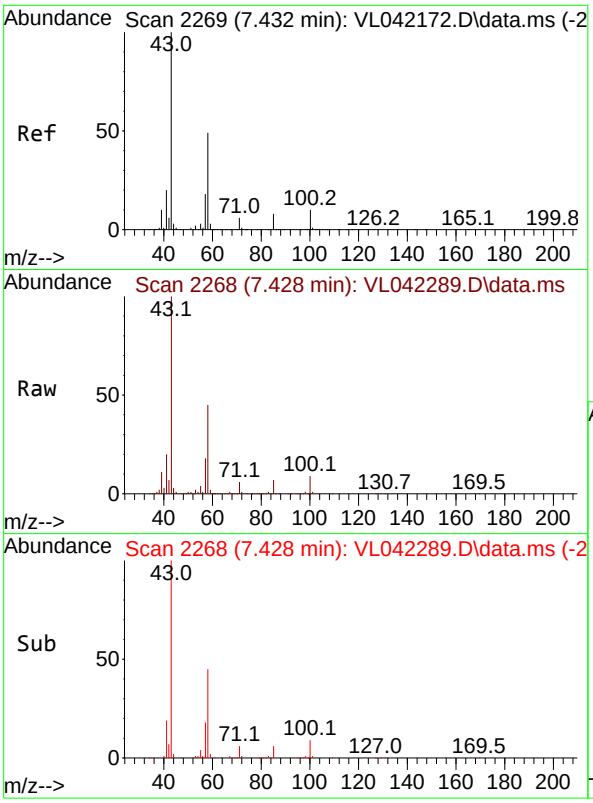




#50
4-Methyl-2-Pentanone
Concen: 9.552 ppbv
RT: 5.742 min Scan# 1747
Delta R.T. -0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 43 Resp: 463069

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 34.2 | 29.0 | 43.6 |



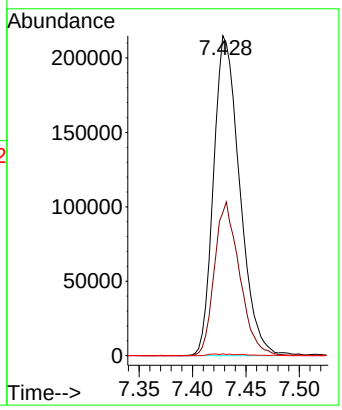


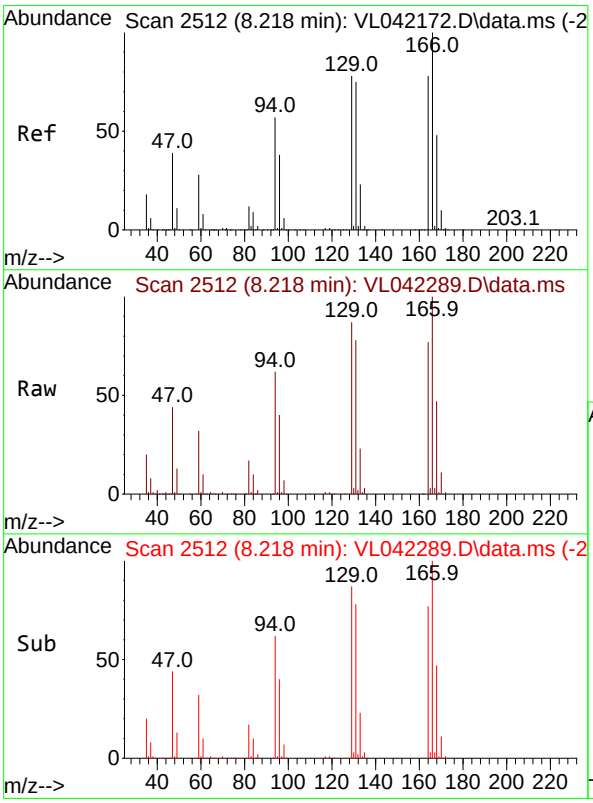

#51
2-Hexanone
Concen: 9.168 ppbv
RT: 7.428 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

Tgt Ion: 43 Resp: 364946

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 46.5 | 39.7 | 59.5 |
| 98 | 0.8 | 0.1 | 0.1# |

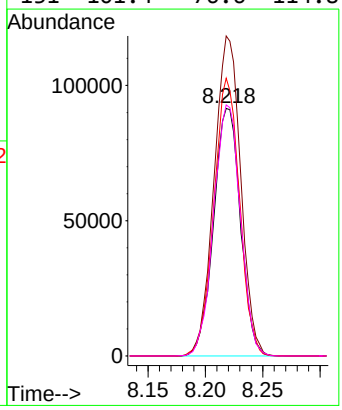


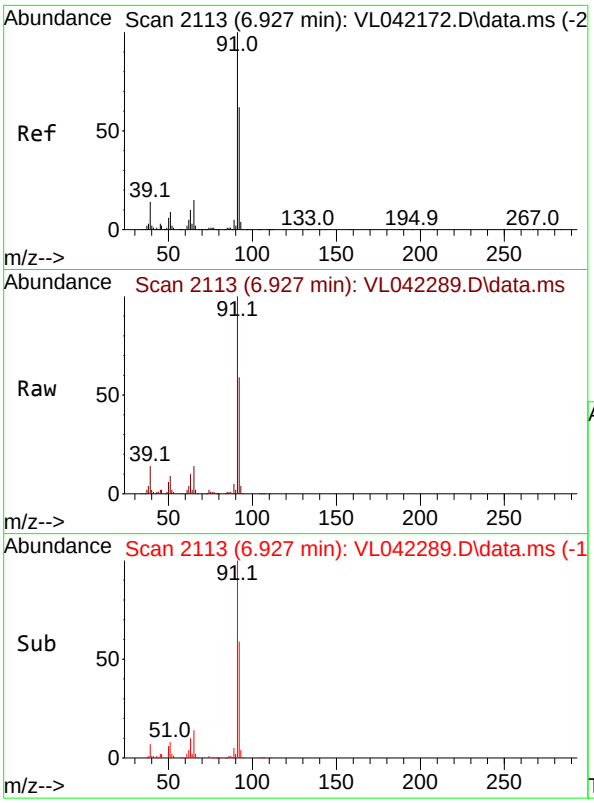




#52
Tetrachloroethene
Concen: 8.946 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:164 Resp: 148369

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 129.3 | 102.5 | 153.7 |
| 129 | 112.2 | 79.8 | 119.8 |
| 131 | 101.4 | 76.6 | 114.8 |



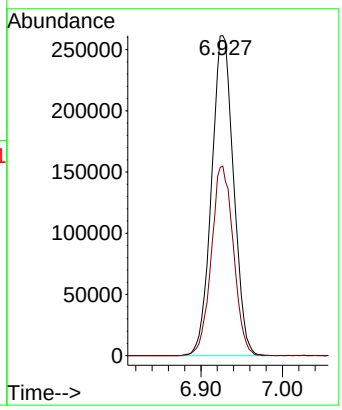


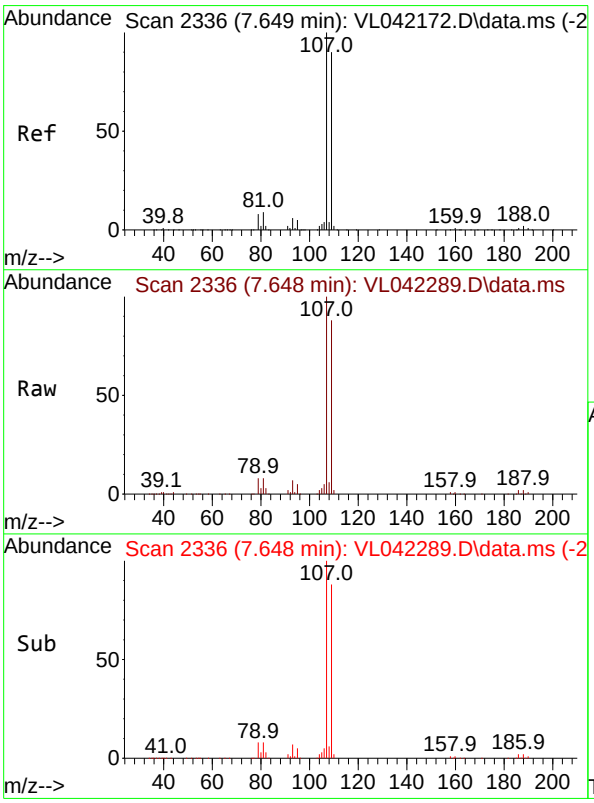

#53
Toluene
Concen: 9.903 ppbv
RT: 6.927 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

Tgt Ion: 91 Resp: 490916

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 59.5 | 48.4 | 72.6 |

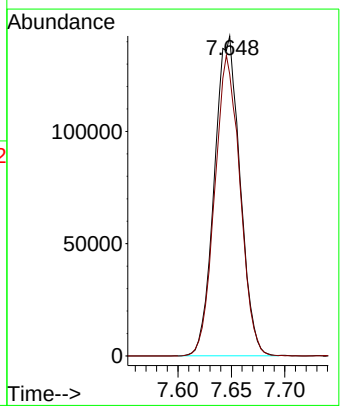


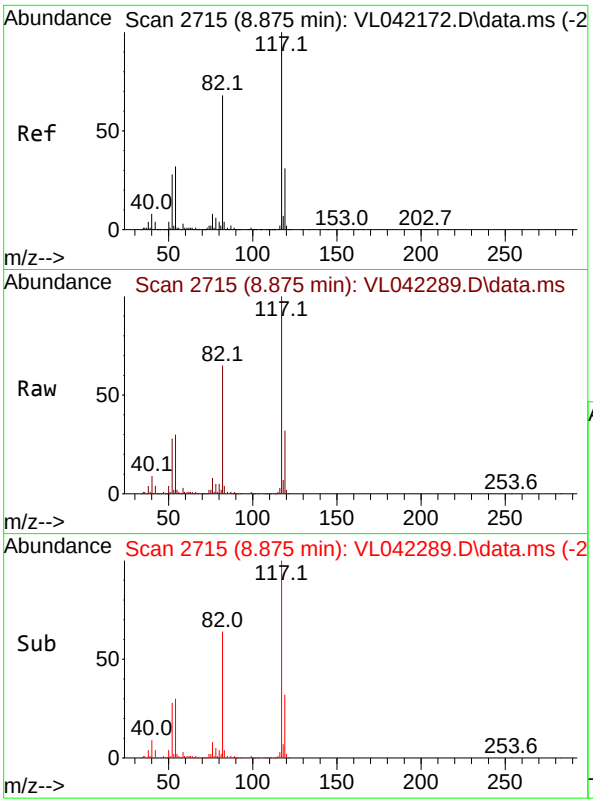




#54
1,2-Dibromoethane
Concen: 10.608 ppbv
RT: 7.648 min Scan# 2336
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:107 Resp: 238091

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 88.1 | 72.2 | 108.4 |



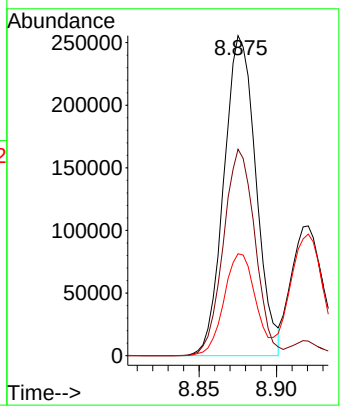


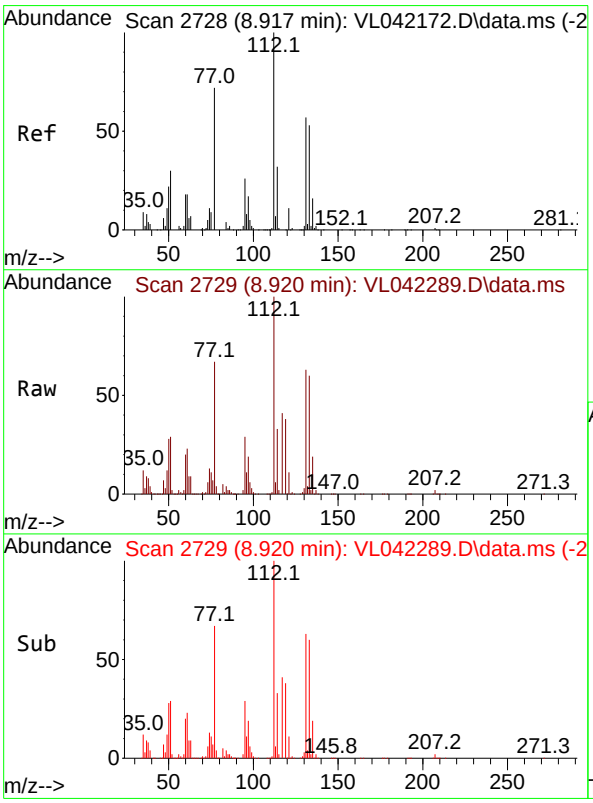

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

Tgt Ion:117 Resp: 368487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 67.9 | 55.8 | 83.6 |
| 119 | 31.8 | 25.5 | 38.3 |

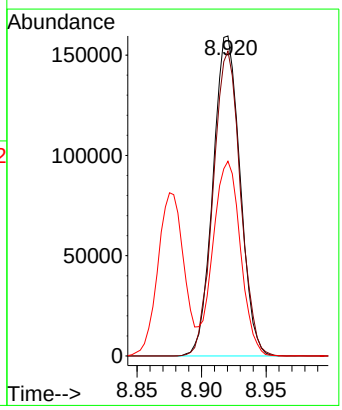


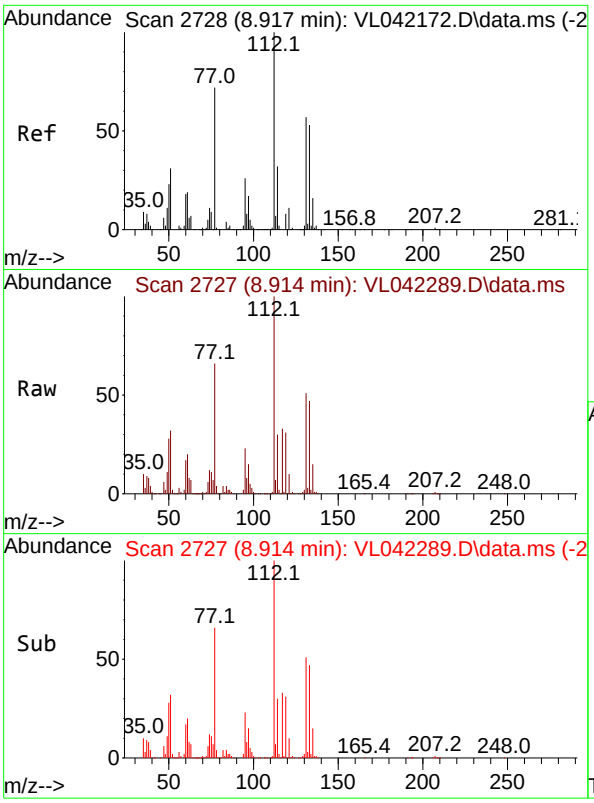




#56
1,1,1,2-Tetrachloroethane
Concen: 11.465 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. 0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:131 Resp: 232553

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.9 | 76.6 | 114.8 |
| 119 | 62.4 | 49.8 | 74.6 |



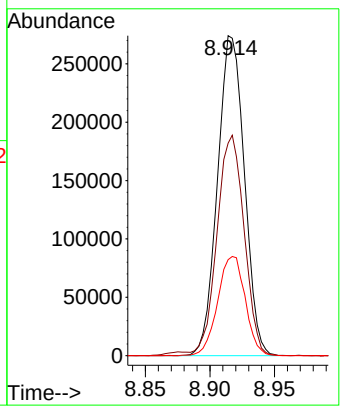


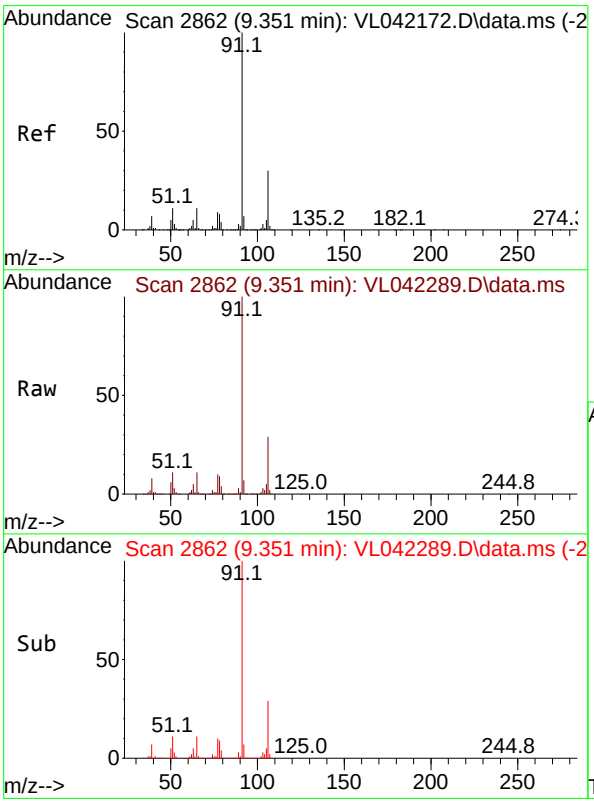

#57
Chlorobenzene
Concen: 11.372 ppbv
RT: 8.914 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

Tgt Ion:112 Resp: 397485

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 66.3 | 58.2 | 87.2 |
| 114 | 30.0 | 29.1 | 35.5 |

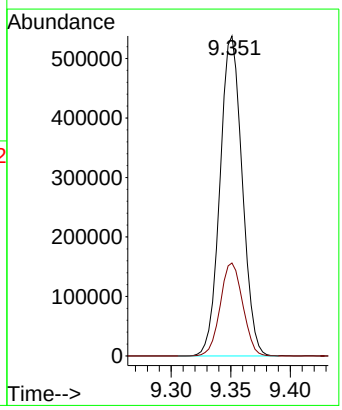


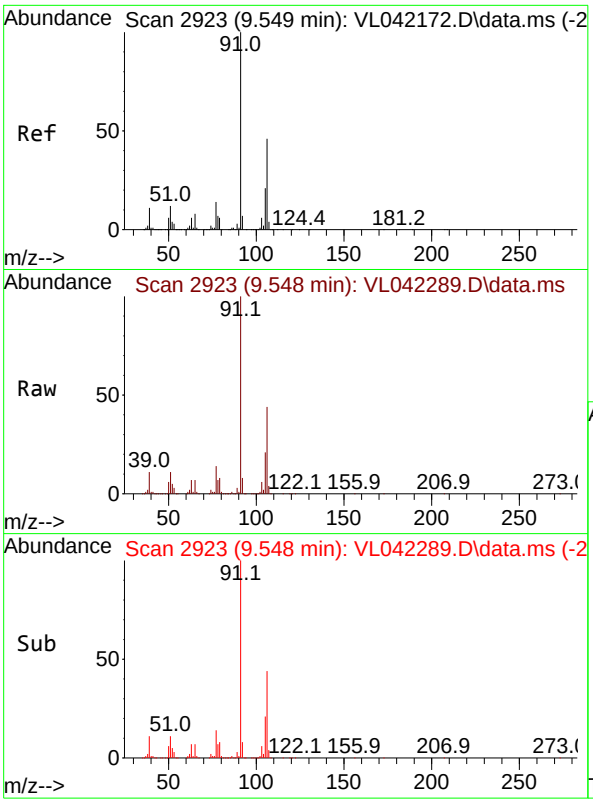




#58
Ethyl Benzene
Concen: 10.619 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 91 Resp: 695035

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.0 | 24.2 | 36.2 |



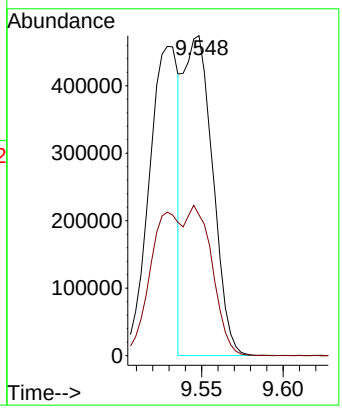


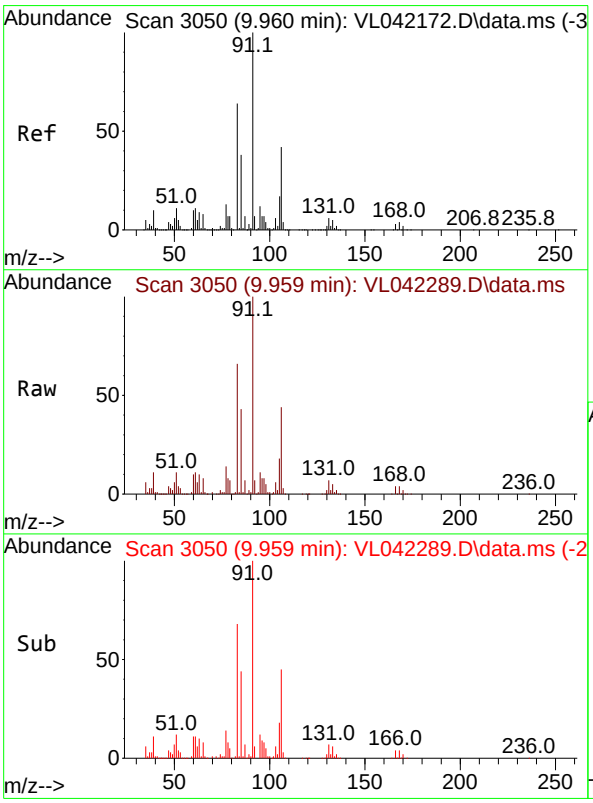

#59
m/p-Xylene
Concen: 11.352 ppbv
RT: 9.548 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

Tgt Ion: 91 Resp: 593323

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 90.6 | 36.4 | 54.6# |

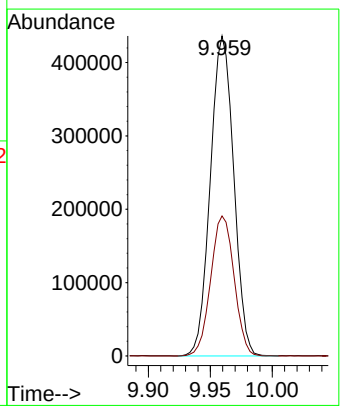


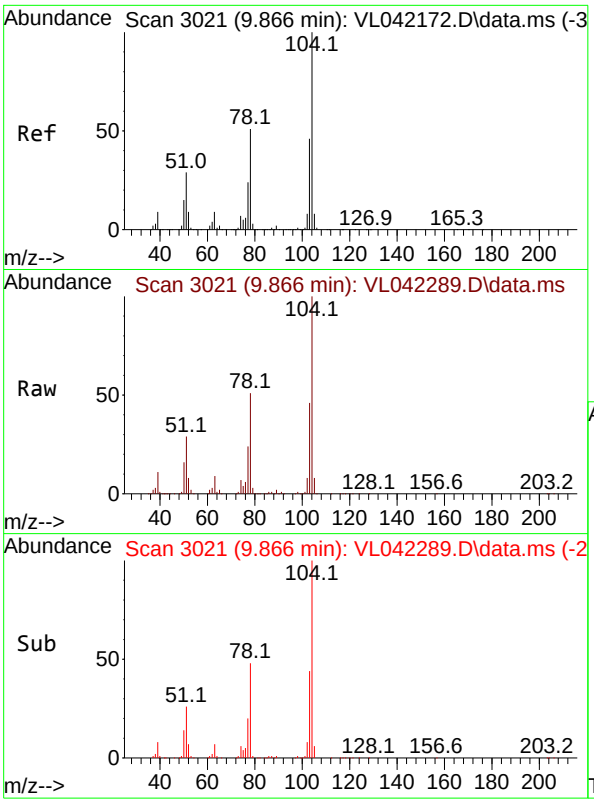




#60
o-Xylene
Concen: 10.960 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 91 Resp: 574256

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 43.7 | 20.8 | 62.5 |



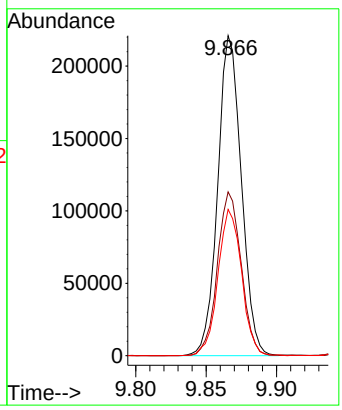


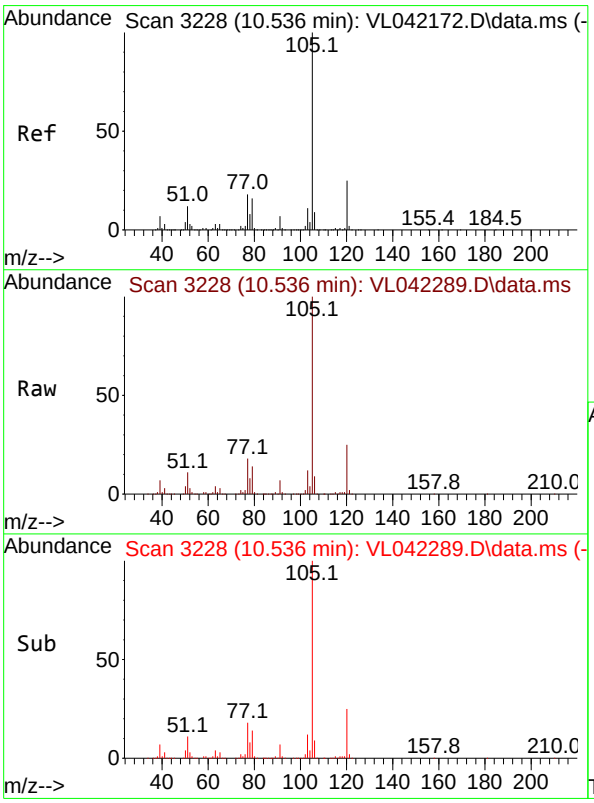

#61
Styrene
Concen: 9.967 ppbv
RT: 9.866 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

Tgt Ion:104 Resp: 258350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 51.6 | 41.8 | 62.6 |
| 103 | 45.9 | 37.0 | 55.4 |

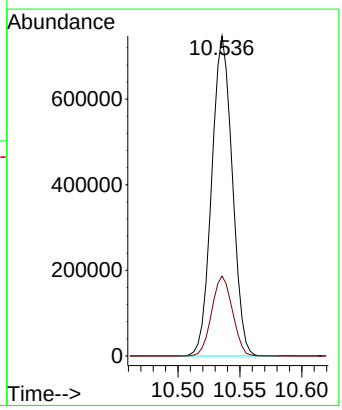


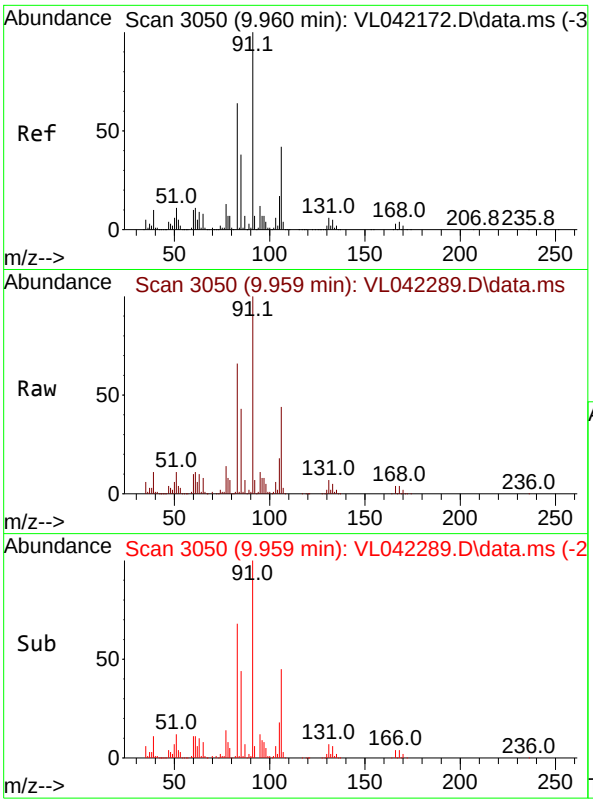




#62
Isopropylbenzene
Concen: 11.032 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:105 Resp: 864354

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.1 | 19.9 | 29.9 |



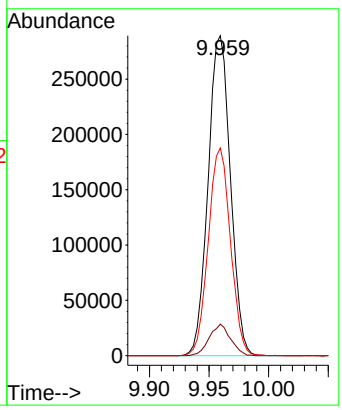


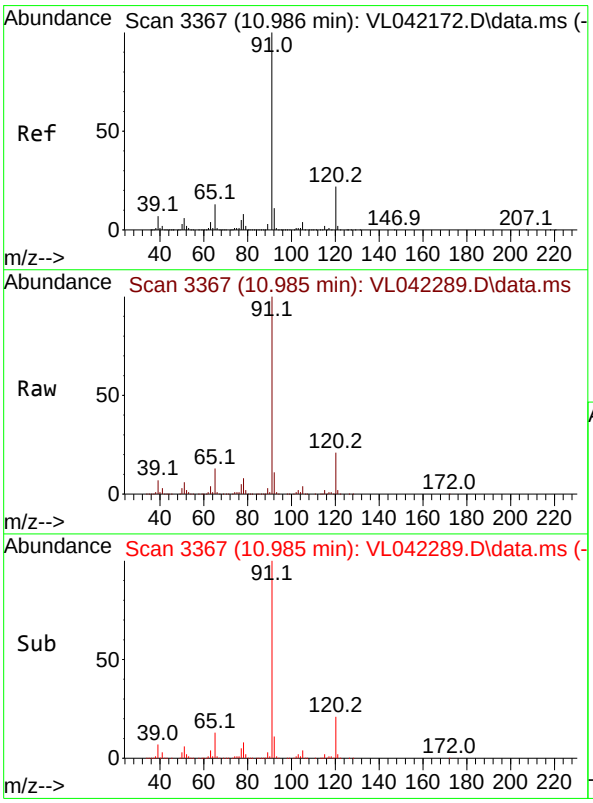

#63
1,1,2,2-Tetrachloroethane
Concen: 11.843 ppbv
RT: 9.959 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

Tgt Ion: 83 Resp: 377007

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.4 | 4.8 | 14.4 |
| 85 | 64.5 | 32.5 | 97.5 |

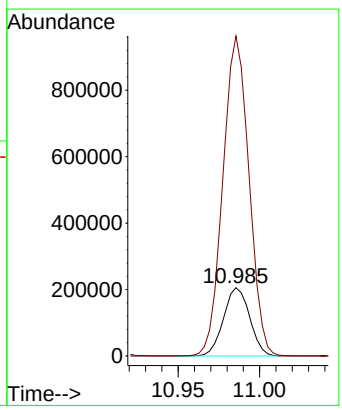


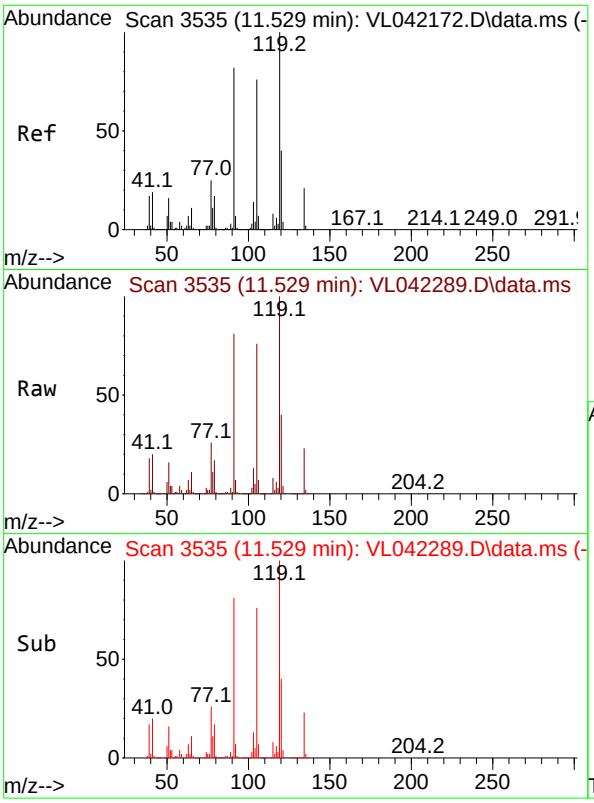




#64
n-propylbenzene
Concen: 11.331 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:120 Resp: 228525

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 468.7 | 376.9 | 565.3 |



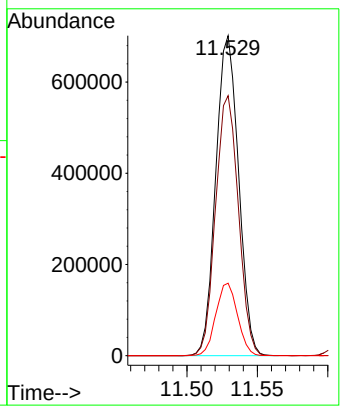


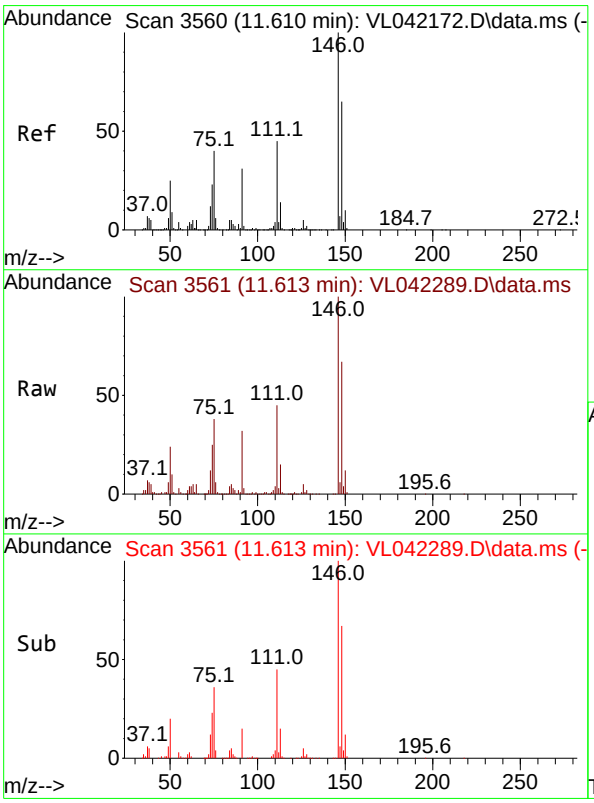

#65
tert-Butylbenzene
Concen: 10.909 ppbv
RT: 11.529 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

Tgt Ion:119 Resp: 790461

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 81.4 | 66.0 | 99.0 |
| 134 | 21.6 | 16.7 | 25.1 |

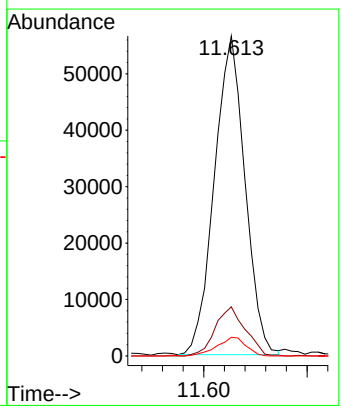


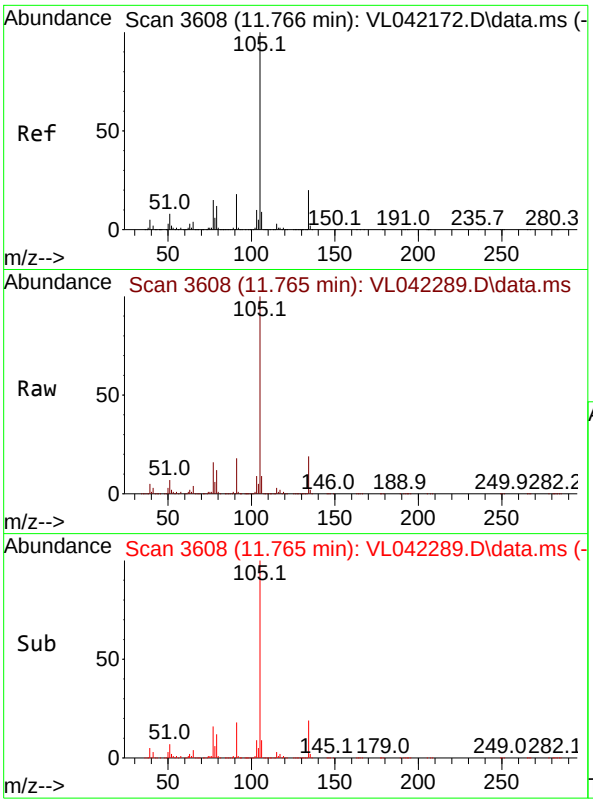




#66
Benzyl Chloride
Concen: 7.561 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. 0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 91 Resp: 58131

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 15.2 | 13.8 | 20.6 |
| 128 | 5.6 | 4.5 | 6.7 |



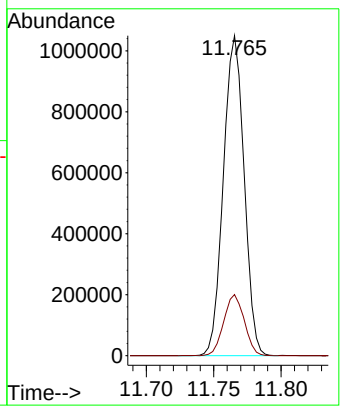


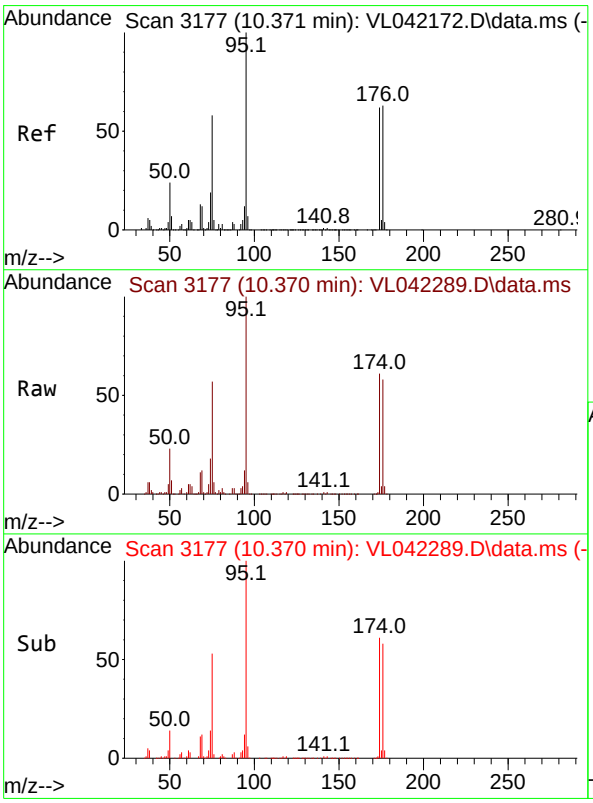

#67
sec-Butylbenzene
Concen: 11.161 ppbv
RT: 11.765 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

Tgt Ion:105 Resp: 1124096

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.0 | 15.5 | 23.3 |

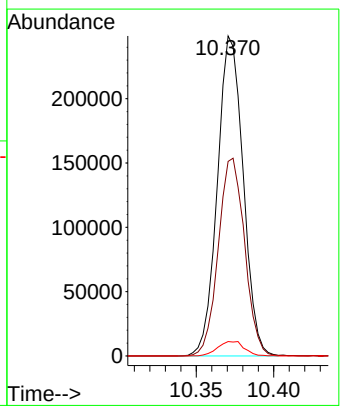


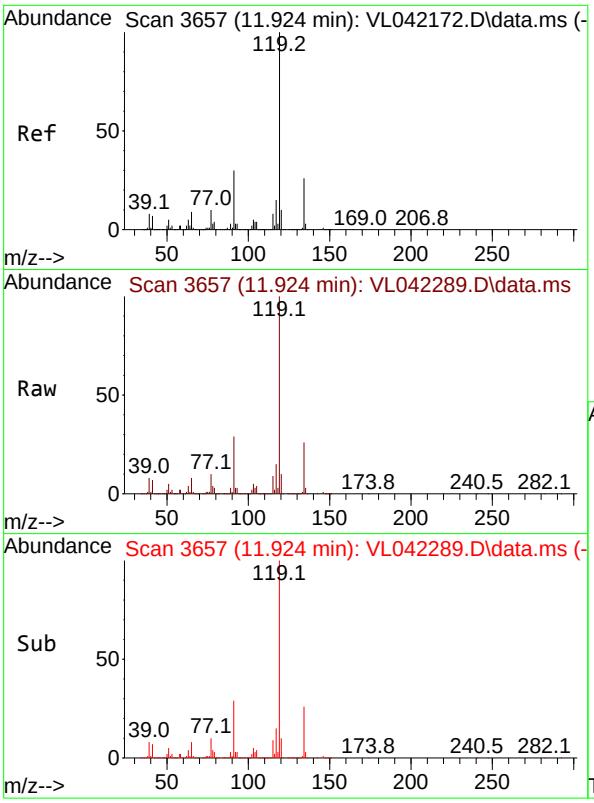




#68
1-Bromo-4-Fluorobenzene
Concen: 9.522 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 95 Resp: 288141

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 63.2 | 50.6 | 76.0 |
| 175 | 4.7 | 3.8 | 5.6 |



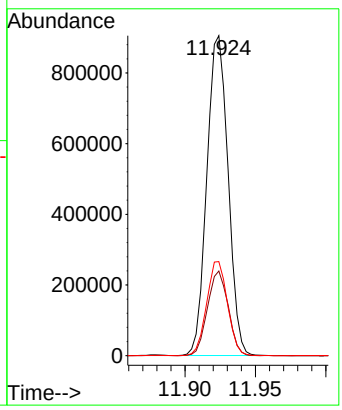


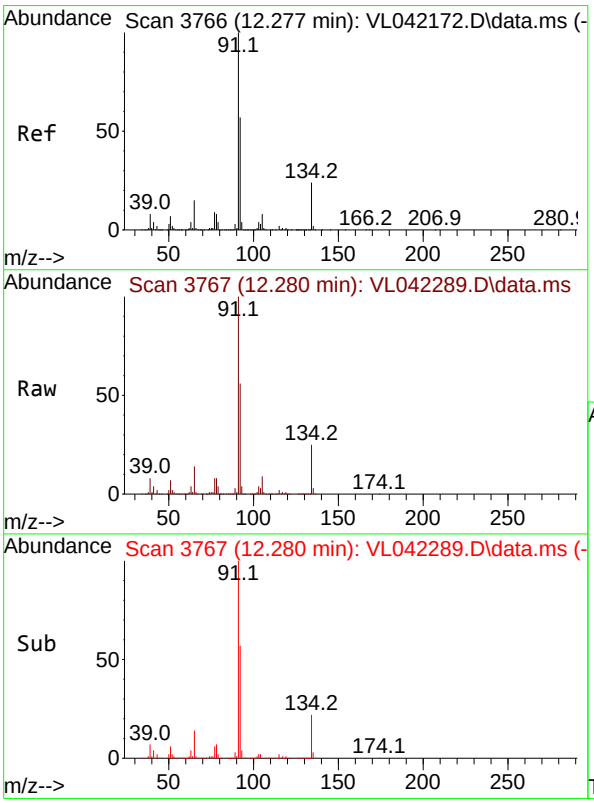

#69
p-Isopropyltoluene
Concen: 10.954 ppbv
RT: 11.924 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

Tgt Ion:119 Resp: 950025

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.9 | 20.4 | 30.6 |
| 91 | 29.1 | 23.7 | 35.5 |

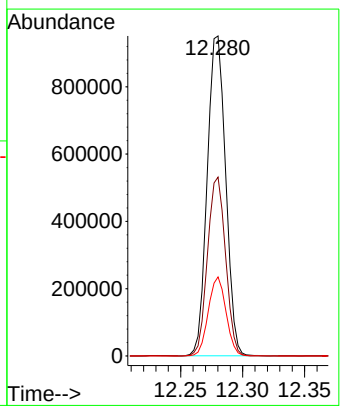


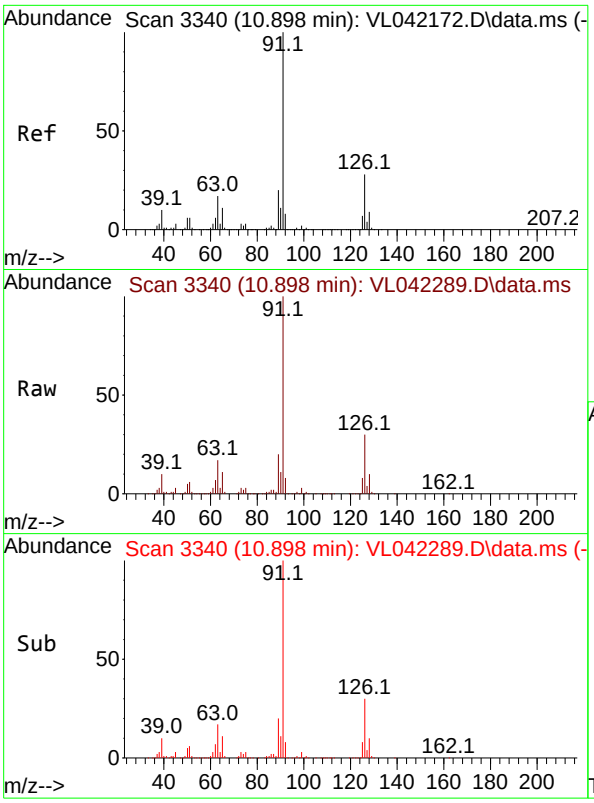




#70
n-Butylbenzene
Concen: 11.124 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 91 Resp: 986632

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 54.9 | 44.9 | 67.3 |
| 134 | 23.8 | 19.2 | 28.8 |



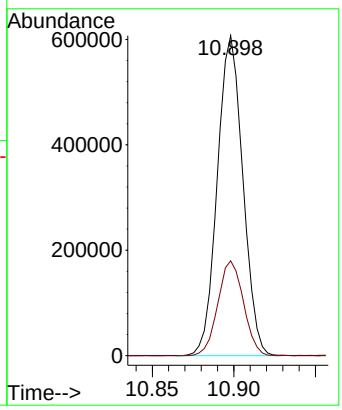


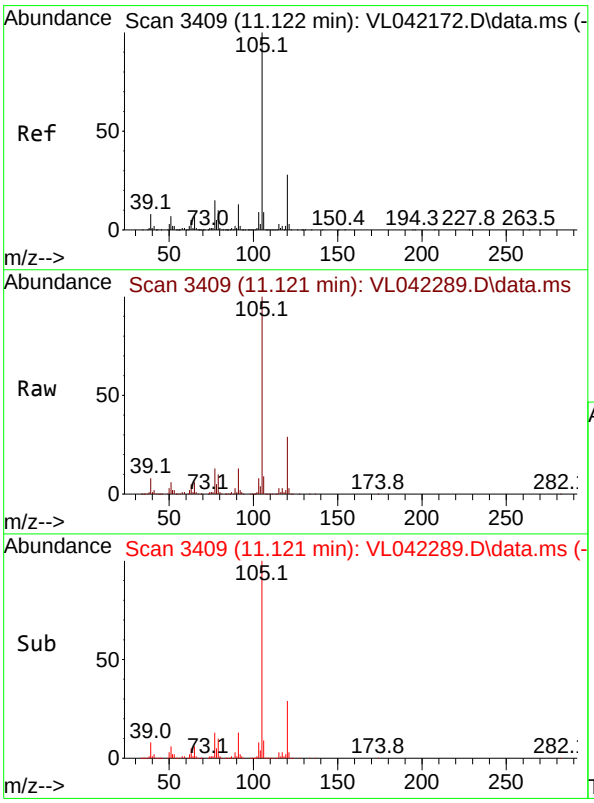

#71
2-Chlorotoluene
Concen: 10.859 ppbv
RT: 10.898 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

Tgt Ion: 91 Resp: 660346

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 29.7 | 11.6 | 46.4 |

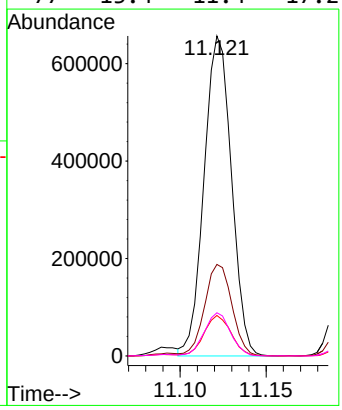


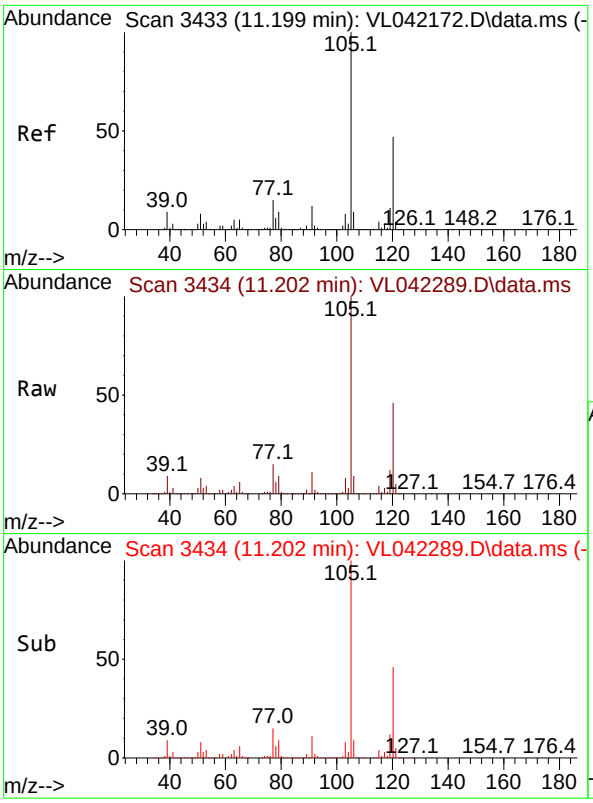




#72
4-Ethyltoluene
Concen: 11.142 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:105 Resp: 726883

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 29.3 | 23.4 | 35.0 |
| 91 | 13.0 | 10.3 | 15.5 |
| 77 | 13.4 | 11.4 | 17.2 |



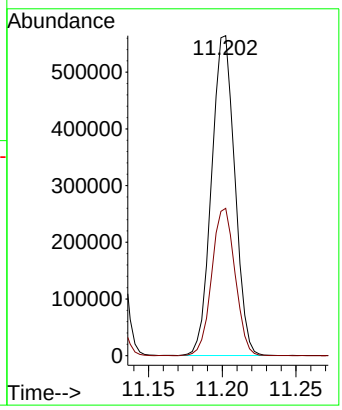


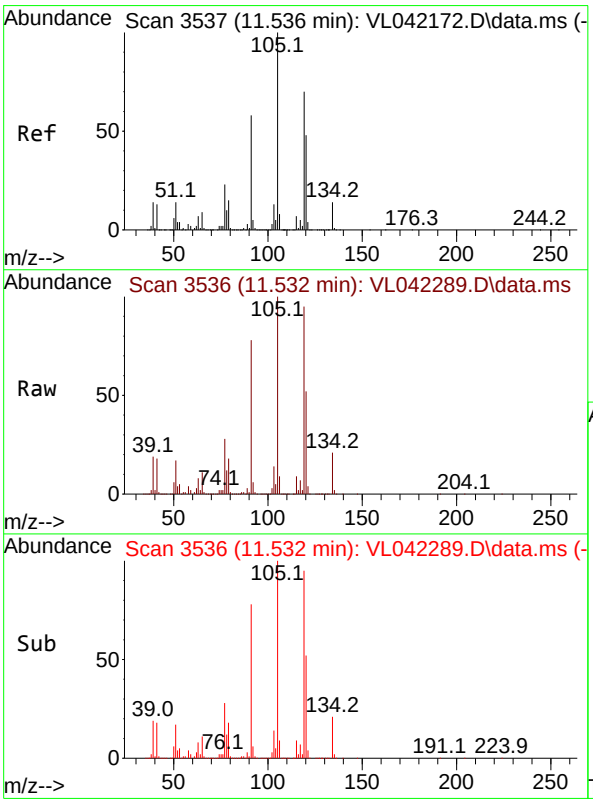

#73
1,3,5-Trimethylbenzene
Concen: 10.851 ppbv
RT: 11.202 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

Tgt Ion:105 Resp: 618219

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.0 | 37.4 | 56.0 |

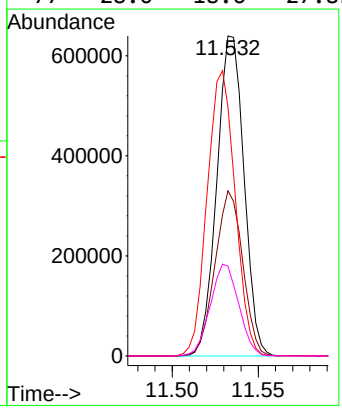


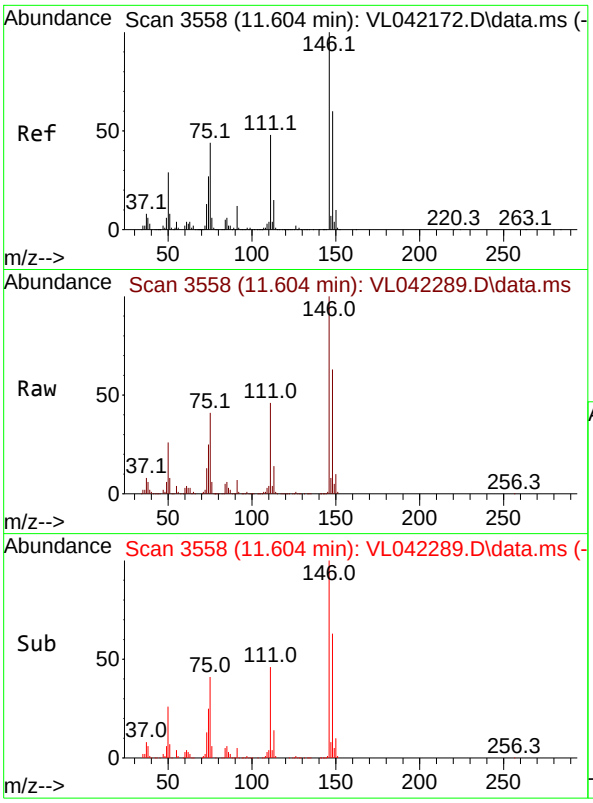




#74
1,2,4-Trimethylbenzene
Concen: 10.699 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:105 Resp: 702287

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 51.6 | 38.6 | 58.0 |
| 91 | 77.8 | 46.2 | 69.2# |
| 77 | 28.0 | 18.6 | 27.8# |



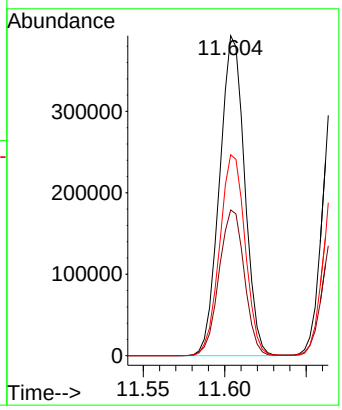


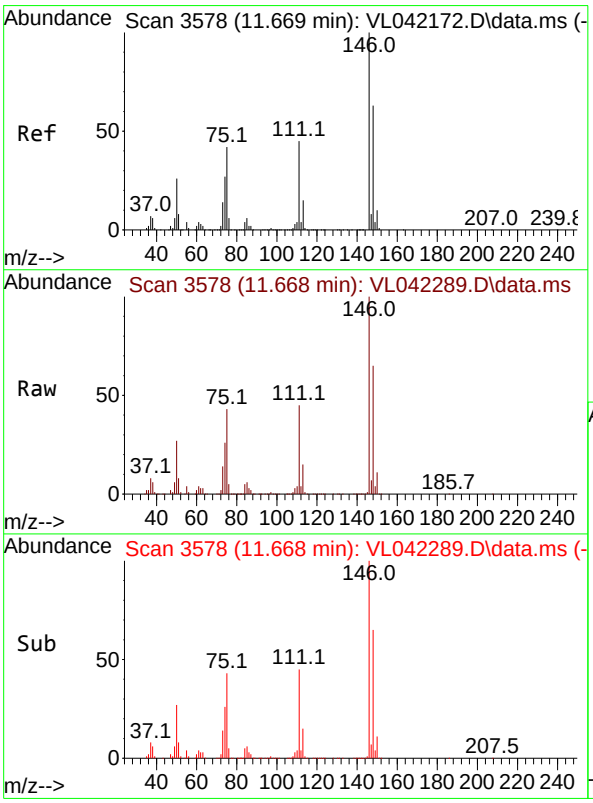

#75
1,3-Dichlorobenzene
Concen: 11.644 ppbv
RT: 11.604 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

Tgt Ion:146 Resp: 419165

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 46.1 | 23.8 | 71.2 |
| 148 | 64.0 | 31.9 | 95.9 |

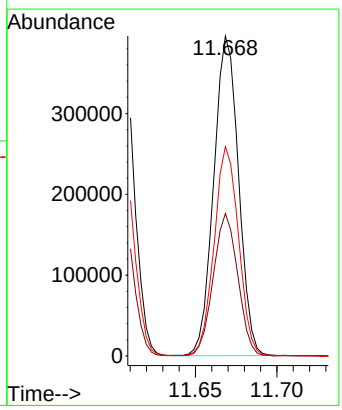


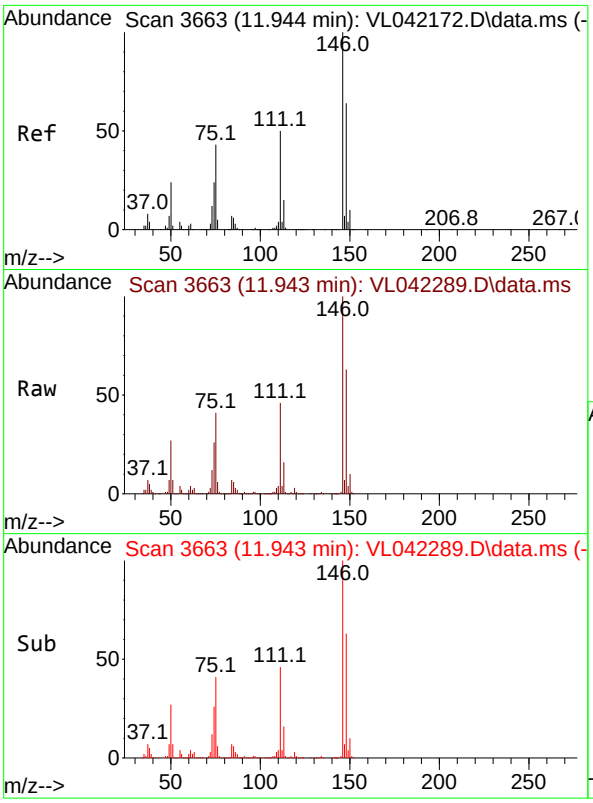




#76
1,4-Dichlorobenzene
Concen: 11.660 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:146 Resp: 417746

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 44.3 | 23.0 | 69.0 |
| 148 | 64.7 | 31.9 | 95.7 |



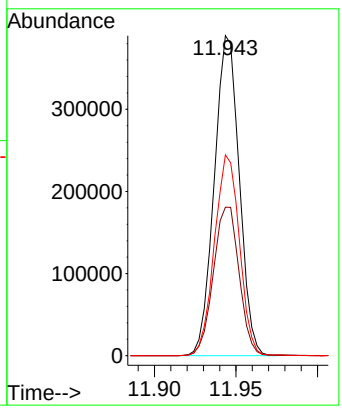


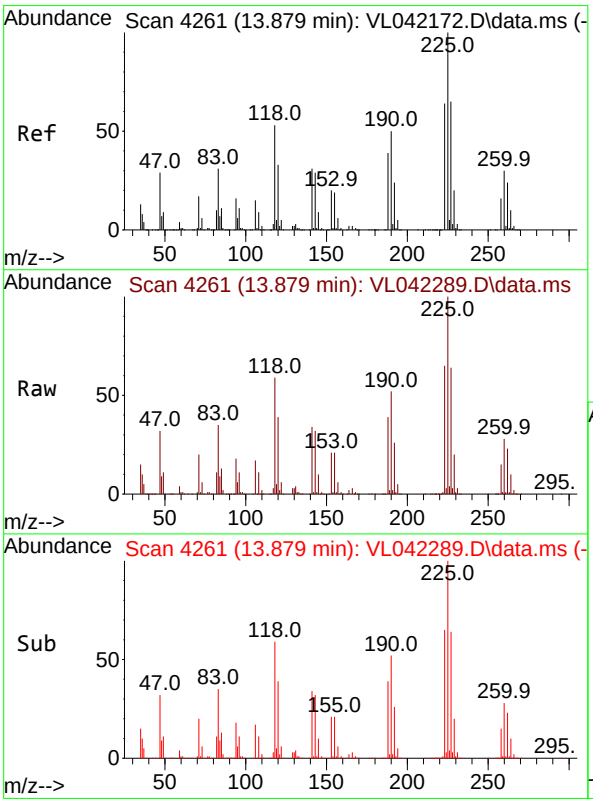

#77
1,2-Dichlorobenzene
Concen: 11.862 ppbv
RT: 11.943 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

Tgt Ion:146 Resp: 415780

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 47.9 | 24.8 | 74.3 |
| 148 | 62.8 | 31.6 | 94.8 |

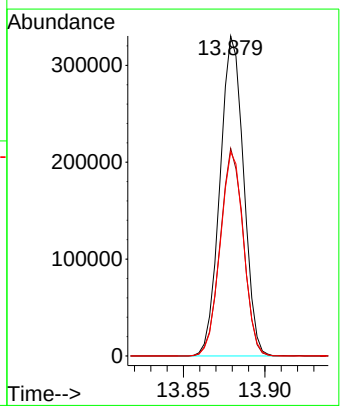


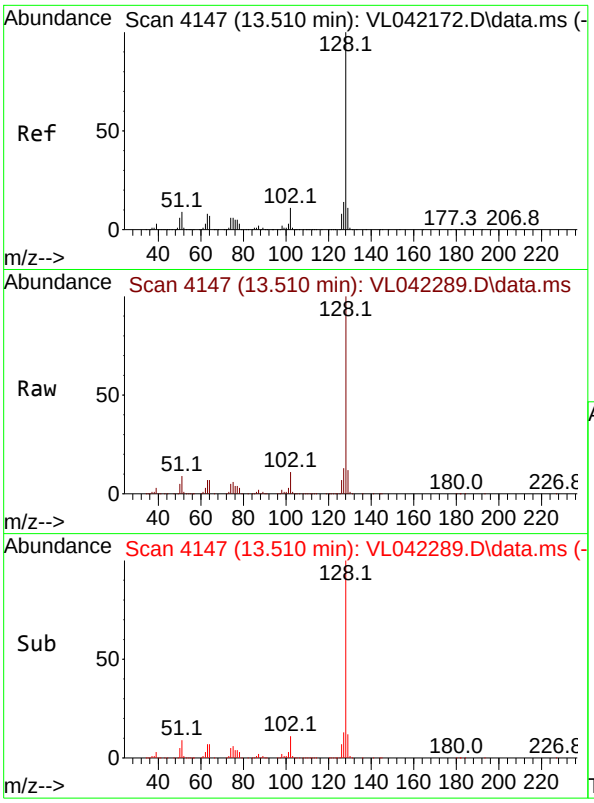




#78
Hexachloro-1,3-Butadiene
Concen: 9.302 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:225 Resp: 331886

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.6 | 50.6 | 76.0 |
| 227 | 63.3 | 51.2 | 76.8 |



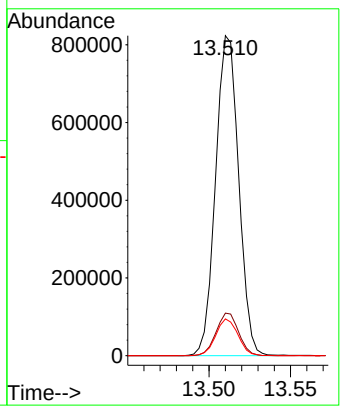


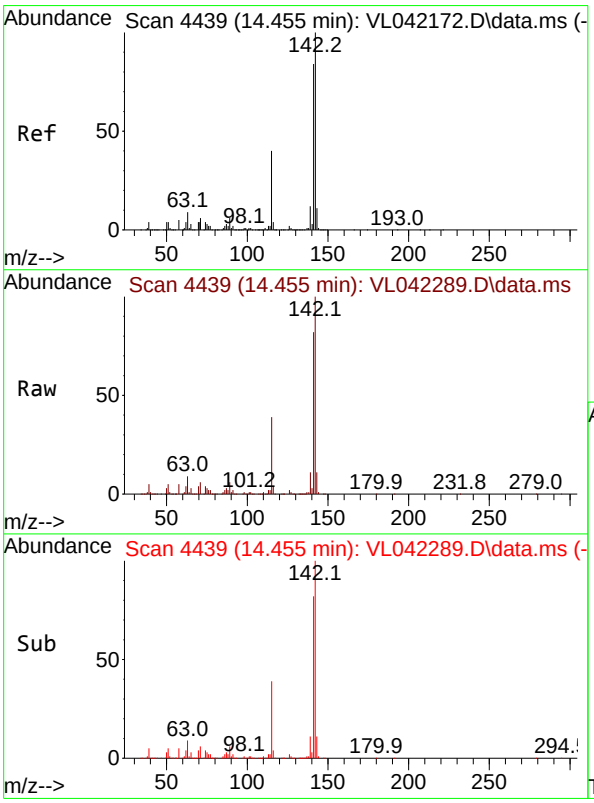

#79
Naphthalene
Concen: 11.288 ppbv
RT: 13.510 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

Tgt Ion:128 Resp: 810441

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.3 | 10.8 | 16.2 |
| 129 | 11.5 | 9.0 | 13.4 |

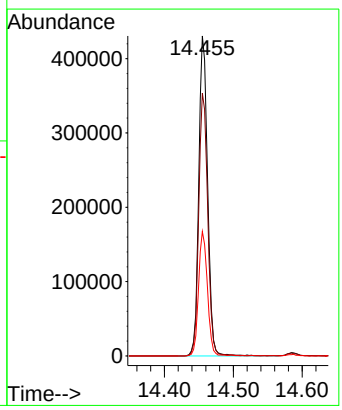


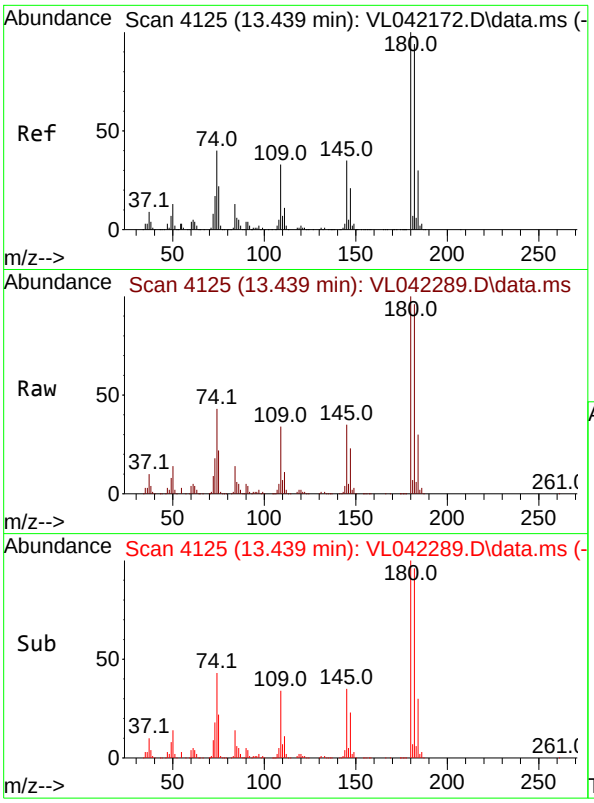




#80
Naphthalene,2-methyl-
Concen: 11.023 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:142 Resp: 388095

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 83.6 | 66.3 | 99.5 |
| 115 | 39.2 | 31.6 | 47.4 |



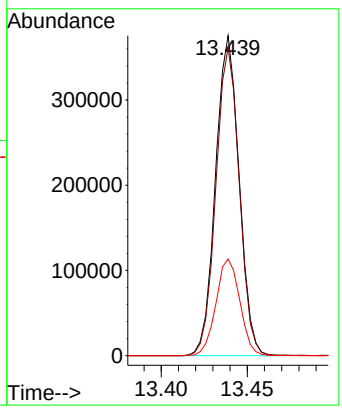



#81
1,2,4-Trichlorobenzene
Concen: 10.802 ppbv
RT: 13.439 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0409ABS02

Tgt Ion:180 Resp: 357711

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.3 | 75.1 | 112.7 |
| 184 | 30.6 | 24.4 | 36.6 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042290.D
Acq On : 09 Apr 2025 13:25
Operator : SY/MD
Sample : Q1665-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025

Quant Time: Apr 10 01:43:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

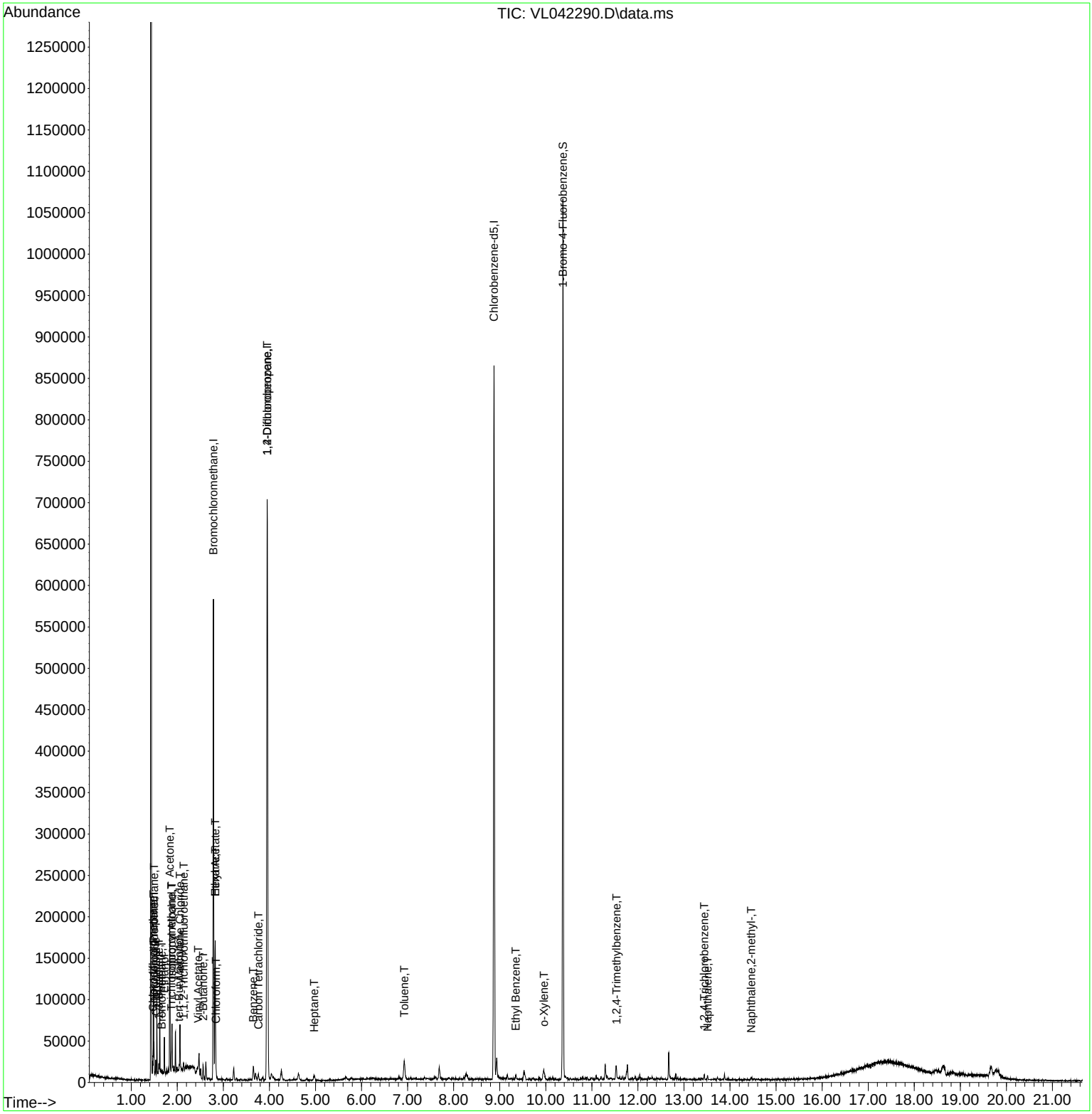
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.784 | 49 | 159221 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.952 | 114 | 408039 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.875 | 117 | 345931 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.371 | 95 | 258960 | 9.116 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 91.200% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.496 | 85 | 9289 | 0.395 | ppbv | 96 |
| 3) Chlorodifluoromethane | 1.473 | 51 | 12980 | 0.540 | ppbv # | 84 |
| 4) Chloromethane | 1.531 | 50 | 5425 | 0.565 | ppbv | 93 |
| 6) Bromomethane | 1.661 | 94 | 185 | 0.042 | ppbv # | 4 |
| 9) Propene | 1.486 | 41 | 9320 | 0.847 | ppbv # | 80 |
| 10) Heptane | 4.972 | 43 | 1334 | 0.046 | ppbv # | 68 |
| 11) Trichlorofluoromethane | 1.874 | 101 | 4760 | 0.208 | ppbv | 94 |
| 12) 1,1,2-Trichlorotrifluo... | 2.140 | 101 | 1389 | 0.074 | ppbv | 84 |
| 13) Ethanol | 1.719 | 45 | 13916 | 13.373 | ppbv | 84 |
| 15) Acetone | 1.835 | 43 | 79179 | 3.556 | ppbv | 93 |
| 16) 1,3-Butadiene | 1.599 | 39 | 1987 | 0.183 | ppbv # | 71 |
| 17) tert-Butyl alcohol | 2.039 | 59 | 1723 | 0.062 | ppbv # | 53 |
| 19) Isopropyl Alcohol | 1.884 | 45 | 22614 | 1.800 | ppbv # | 35 |
| 20) Methylene Chloride | 2.059 | 84 | 7901 | 0.953 | ppbv | 93 |
| 23) Vinyl Acetate | 2.454 | 43 | 6464 | 0.671 | ppbv # | 80 |
| 25) Ethyl Acetate | 2.823 | 43 | 28683 | 0.496 | ppbv # | 81 |
| 26) Hexane | 2.823 | 57 | 34660 | 1.553 | ppbv # | 37 |
| 29) Chloroform | 2.842 | 83 | 1363 | 0.042 | ppbv # | 73 |
| 34) 2-Butanone | 2.561 | 43 | 10562 | 0.357 | ppbv | 99 |
| 35) Carbon Tetrachloride | 3.761 | 117 | 1242 | 0.039 | ppbv | 84 |
| 36) Benzene | 3.651 | 78 | 6629 | 0.164 | ppbv | 95 |
| 39) 1,2-Dichloropropane | 3.952 | 63 | 103630 | 7.034 | ppbv # | 22 |
| 53) Toluene | 6.930 | 91 | 12275 | 0.256 | ppbv # | 79 |
| 58) Ethyl Benzene | 9.348 | 91 | 2673 | 0.044 | ppbv | 99 |
| 60) o-Xylene | 9.959 | 91 | 2526 | 0.051 | ppbv | 98 |
| 74) 1,2,4-Trimethylbenzene | 11.536 | 105 | 3147 | 0.051 | ppbv # | 71 |
| 79) Naphthalene | 13.513 | 128 | 2423 | 0.036 | ppbv # | 92 |
| 80) Naphthalene,2-methyl- | 14.462 | 142 | 999 | 0.030 | ppbv | 91 |
| 81) 1,2,4-Trichlorobenzene | 13.442 | 180 | 1092 | 0.035 | ppbv | 93 |

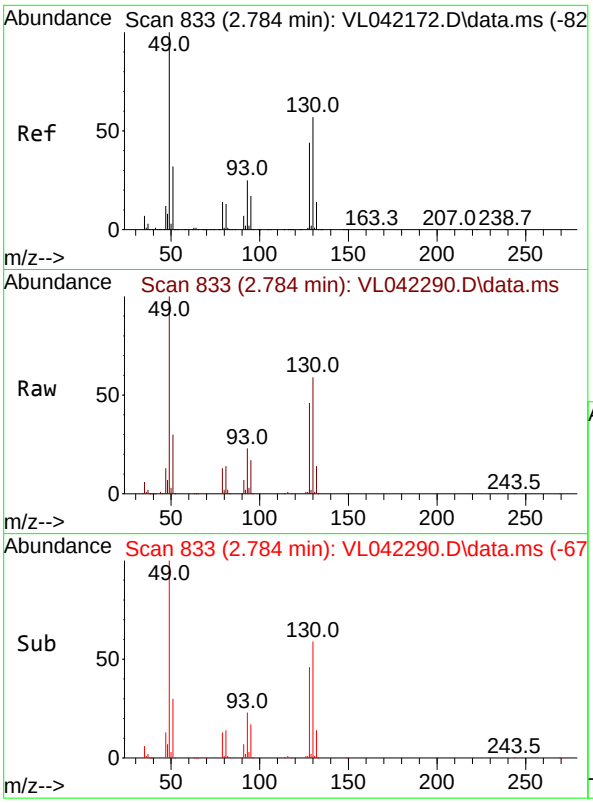
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042290.D
Acq On : 09 Apr 2025 13:25
Operator : SY/MD
Sample : Q1665-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025

Quant Time: Apr 10 01:43:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration



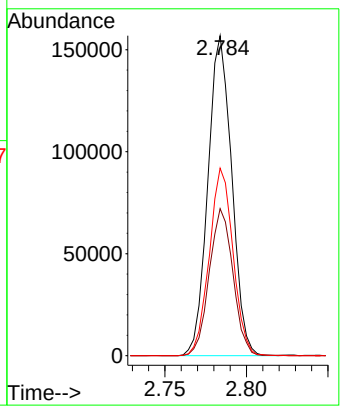


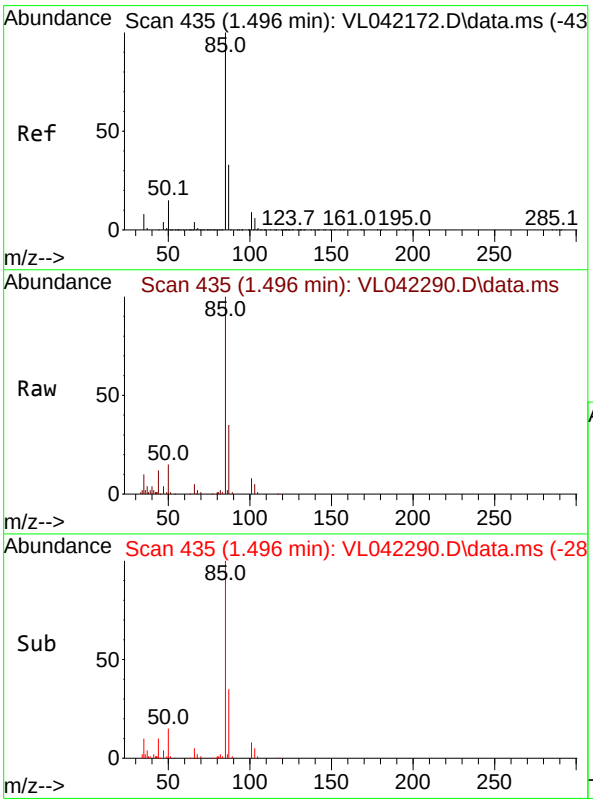

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025

Tgt Ion: 49 Resp: 159221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 45.7 | 22.9 | 68.5 |
| 130 | 58.4 | 28.8 | 86.4 |

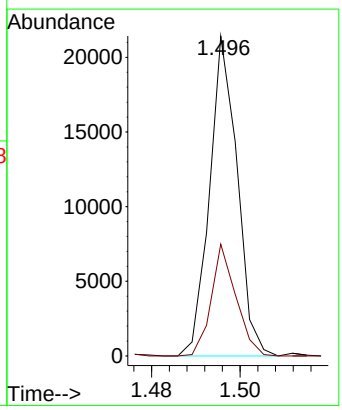


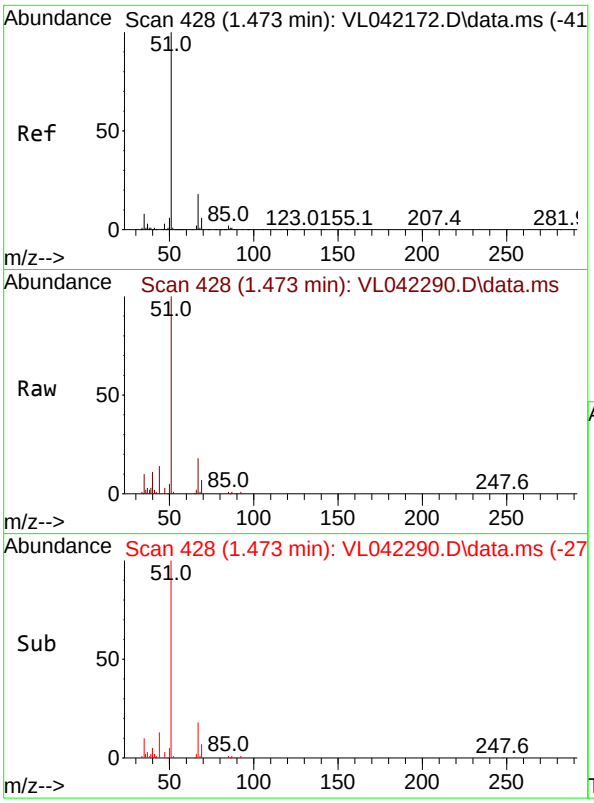




#2
Dichlorodifluoromethane
Concen: 0.395 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

Tgt Ion: 85 Resp: 9289

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 34.9 | 26.1 | 39.1 |



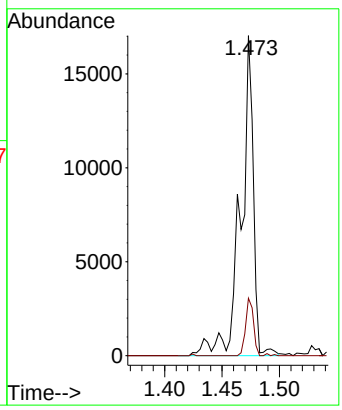


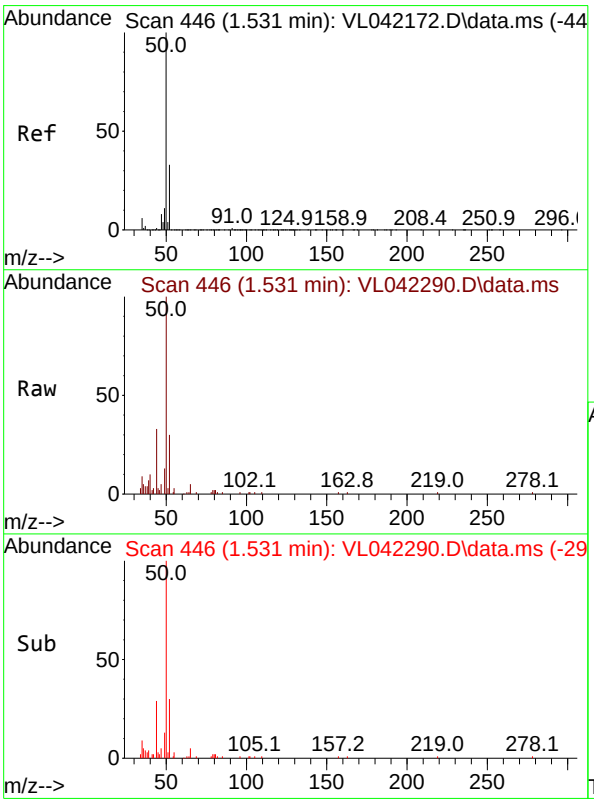

#3
Chlorodifluoromethane
Concen: 0.540 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025

Tgt Ion: 51 Resp: 12980

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 11.4 | 15.0 | 22.6# |

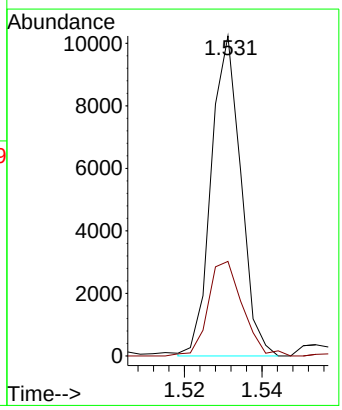


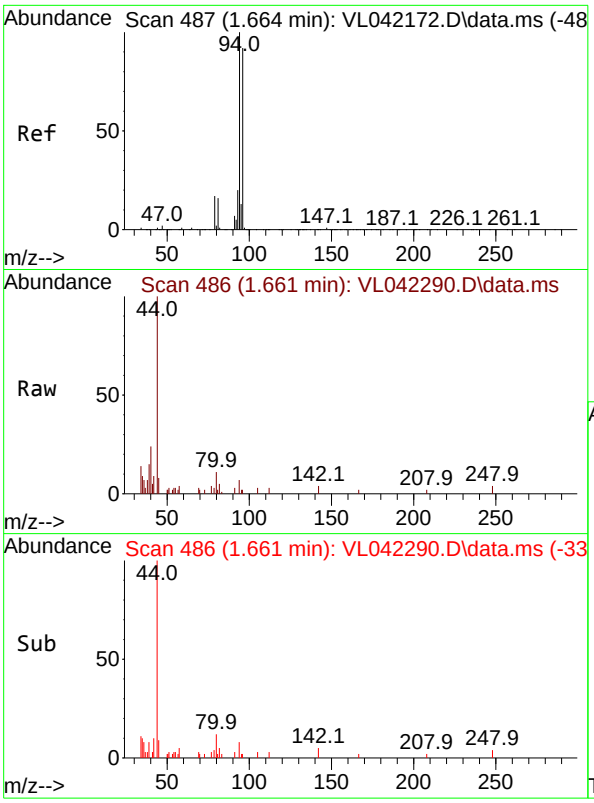




#4
Chloromethane
Concen: 0.565 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

Tgt Ion: 50 Resp: 5425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 28.9 | 26.1 | 39.1 |



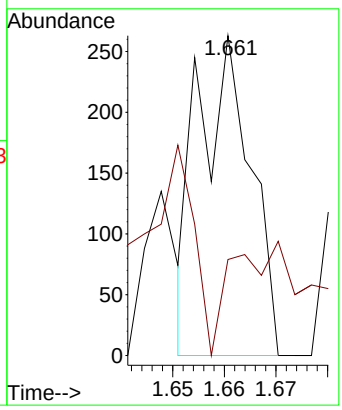


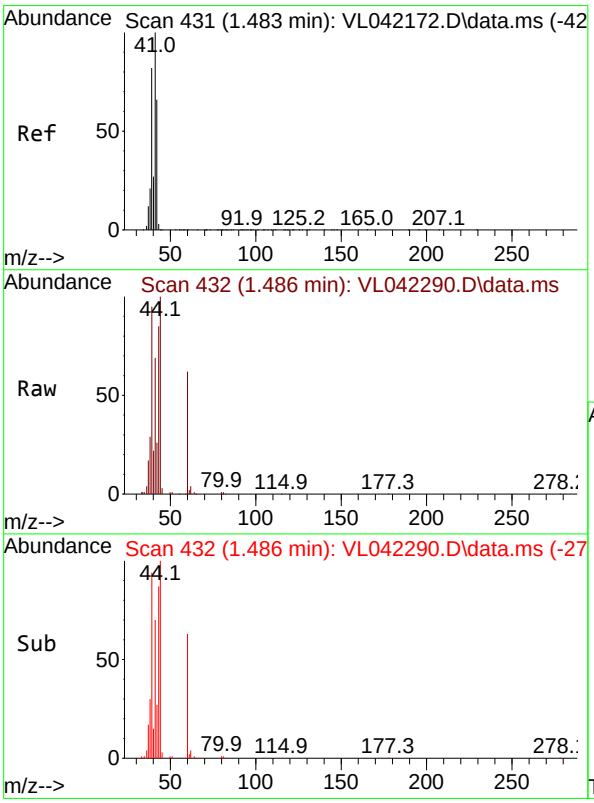

#6
Bromomethane
Concen: 0.042 ppbv
RT: 1.661 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025

Tgt Ion: 94 Resp: 185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 0.0 | 73.1 | 109.7# |

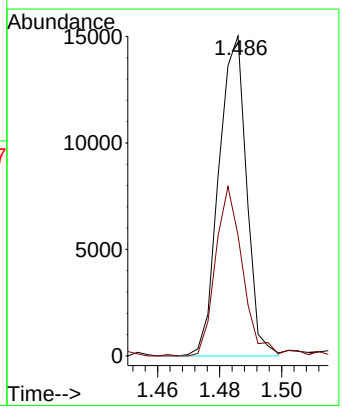


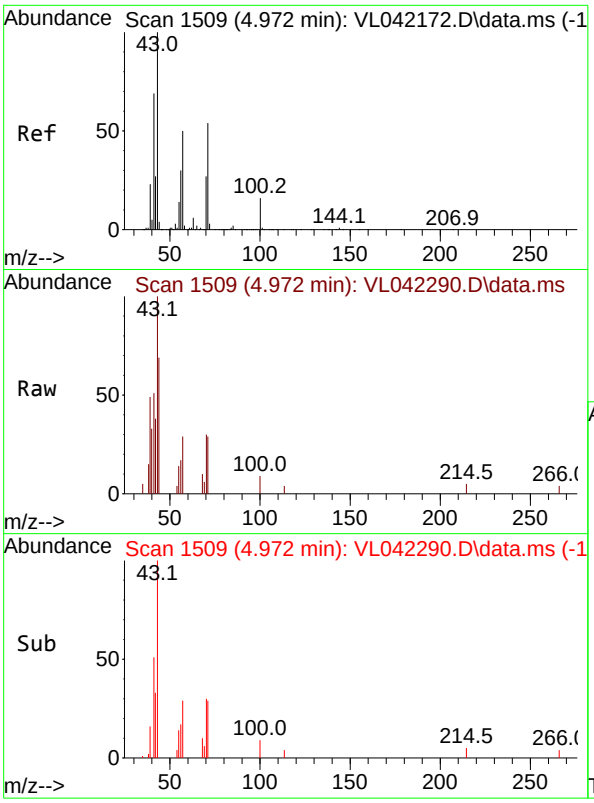




#9
Propene
Concen: 0.847 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

Tgt Ion: 41 Resp: 9320

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 52.7 | 55.4 | 83.2# |



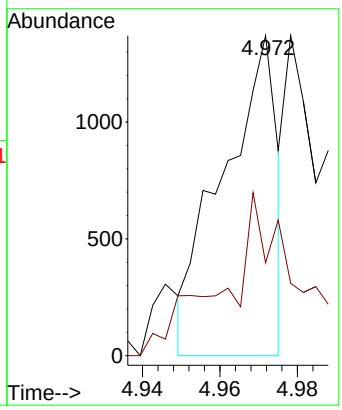


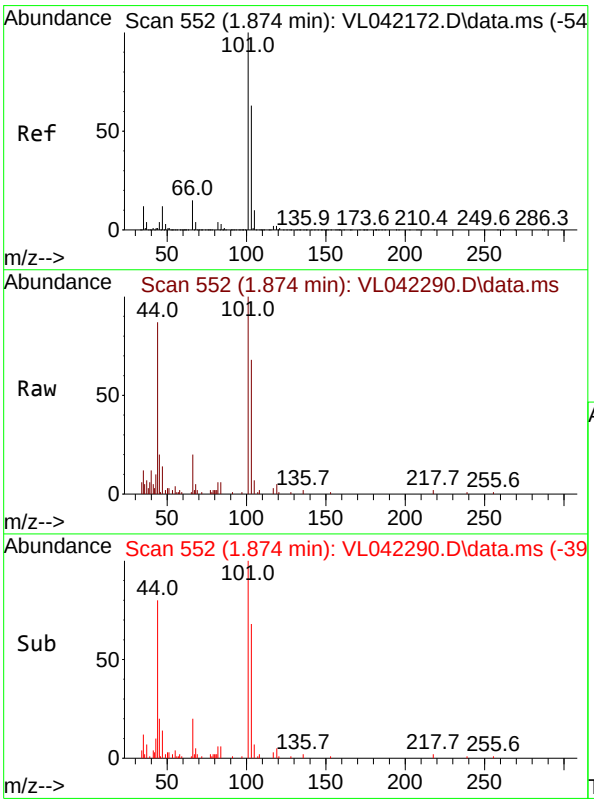

#10
Heptane
Concen: 0.046 ppbv
RT: 4.972 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025

Tgt Ion: 43 Resp: 1334

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 71.4 | 39.4 | 59.2# |

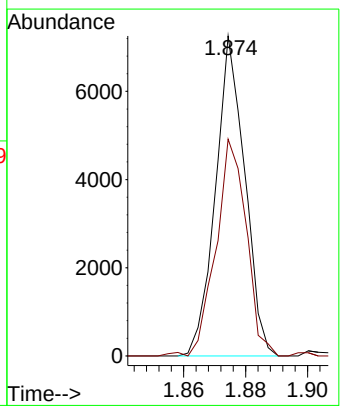


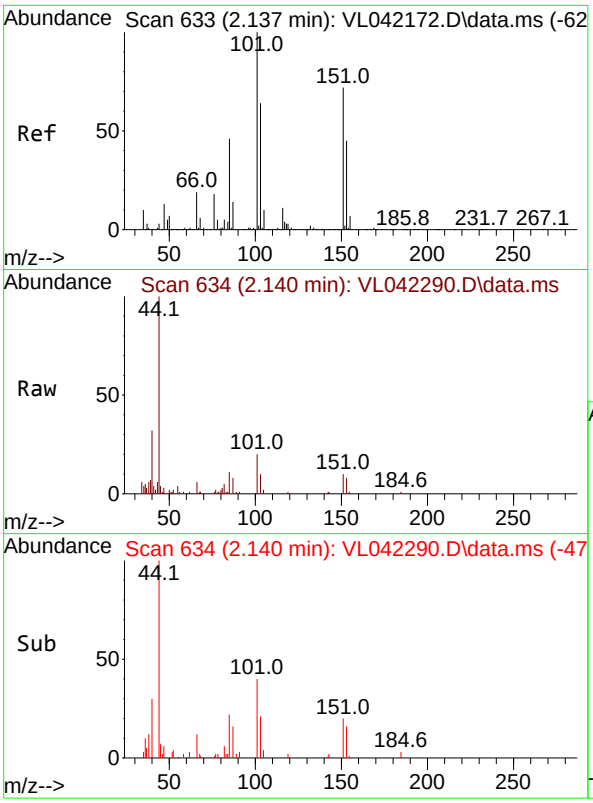




#11
Trichlorofluoromethane
Concen: 0.208 ppbv
RT: 1.874 min Scan# 552
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

Tgt Ion:101 Resp: 4760

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 67.7 | 50.2 | 75.2 |



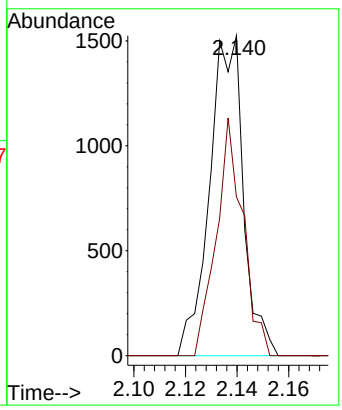


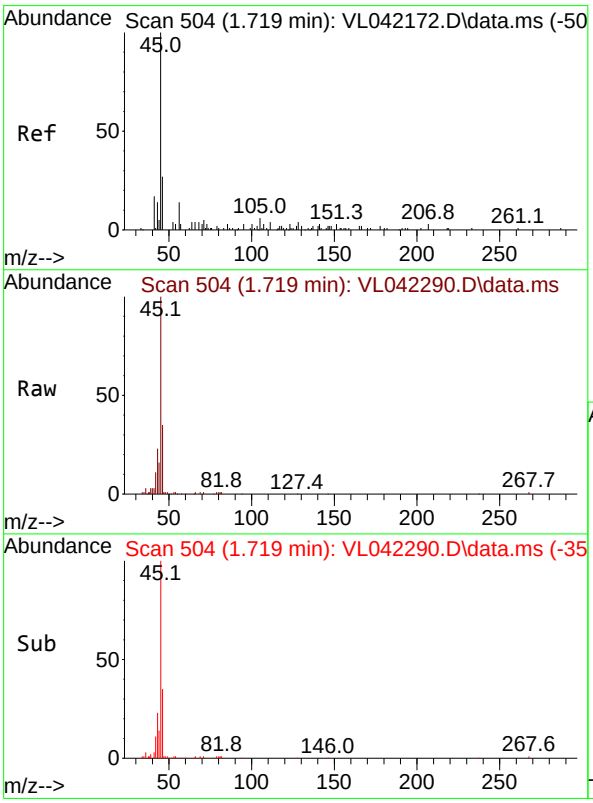

#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.074 ppbv
RT: 2.140 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025

Tgt Ion:101 Resp: 1389

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 58.2 | 57.1 | 85.7 |

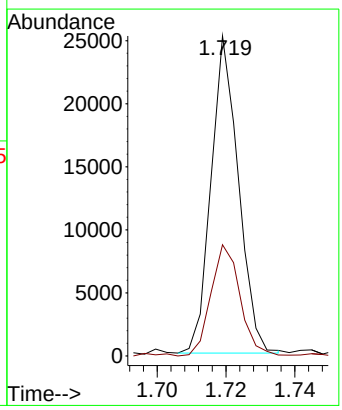


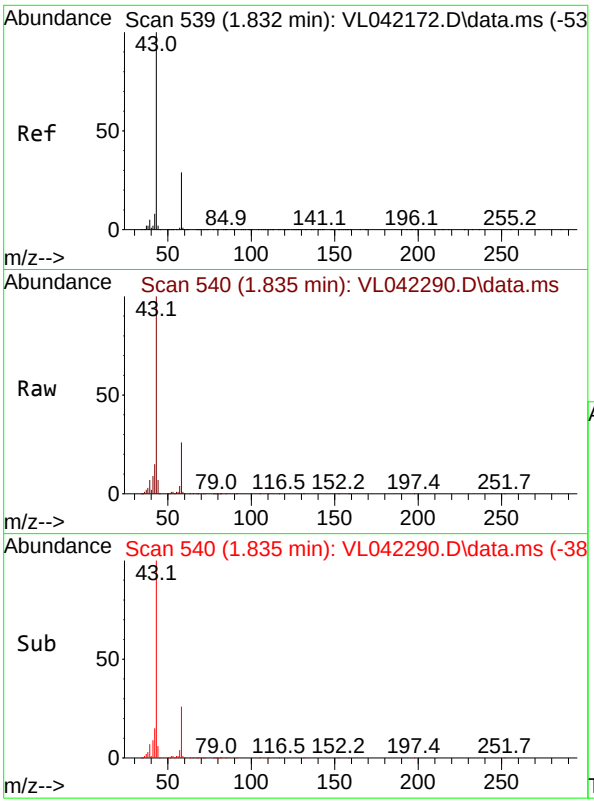




#13
Ethanol
Concen: 13.373 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

Tgt Ion: 45 Resp: 13916

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 39.5 | 20.2 | 80.8 |



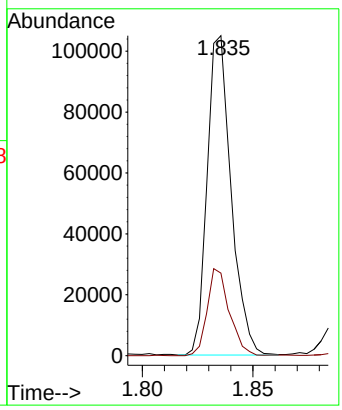


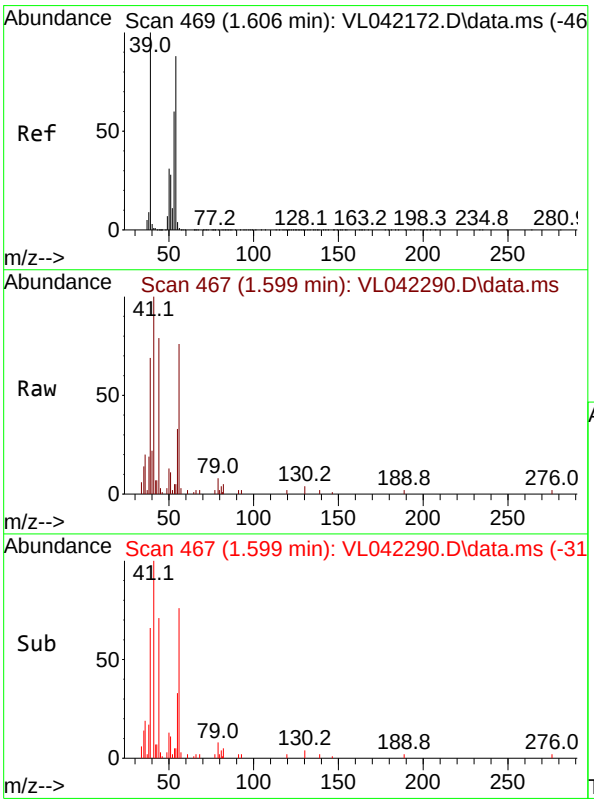

#15
Acetone
Concen: 3.556 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025

Tgt Ion: 43 Resp: 79179

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 25.4 | 23.2 | 34.8 |

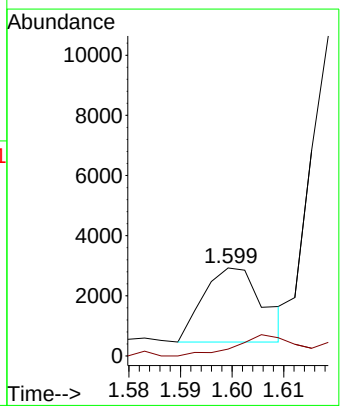


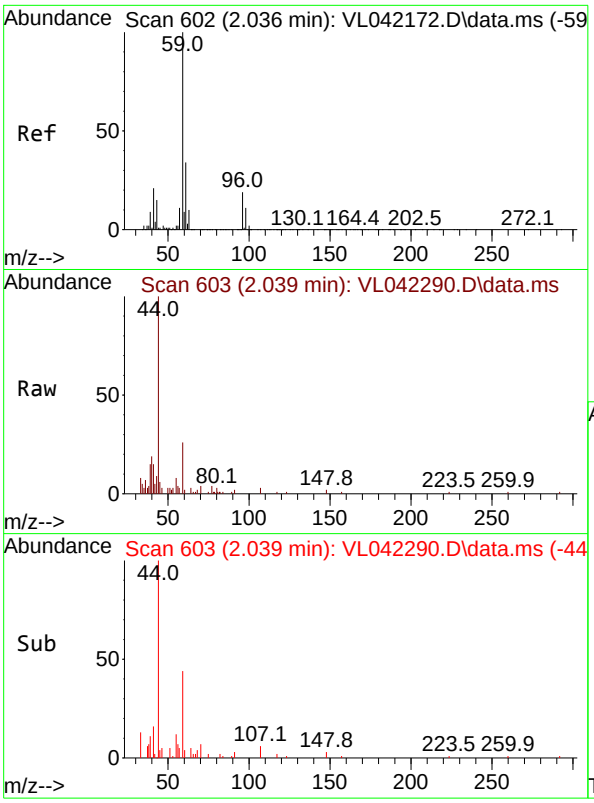




#16
1,3-Butadiene
Concen: 0.183 ppbv
RT: 1.599 min Scan# 467
Delta R.T. -0.007 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

Tgt Ion: 39 Resp: 1987

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 51.0 | 60.7 | 91.1# |



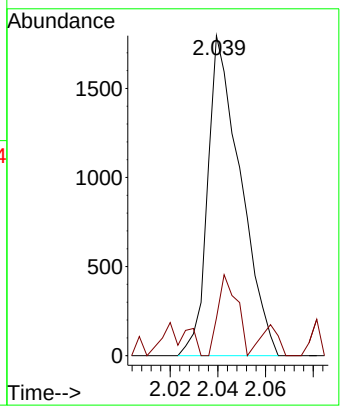


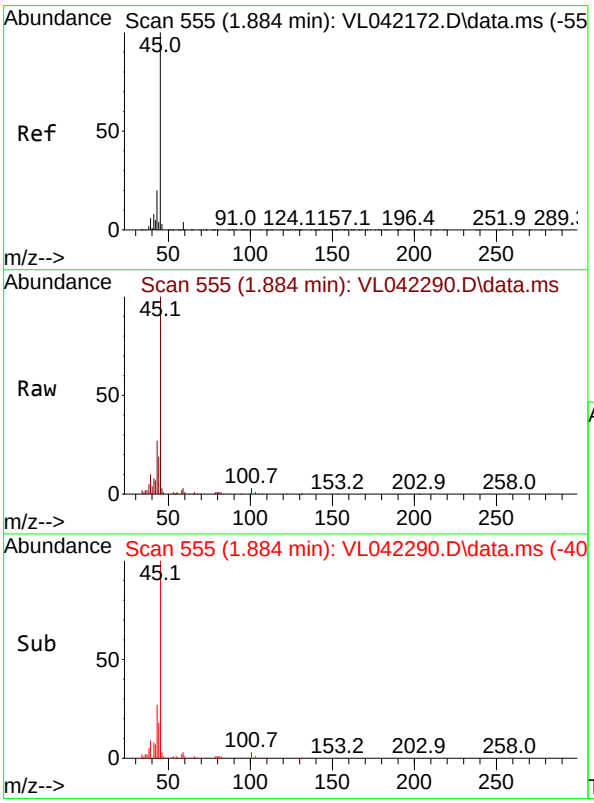

#17
tert-Butyl alcohol
Concen: 0.062 ppbv
RT: 2.039 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025

Tgt Ion: 59 Resp: 1723

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 28.8 | 8.9 | 13.3# |

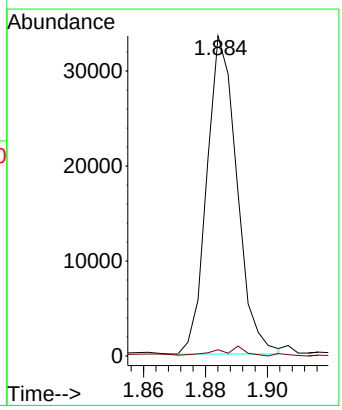


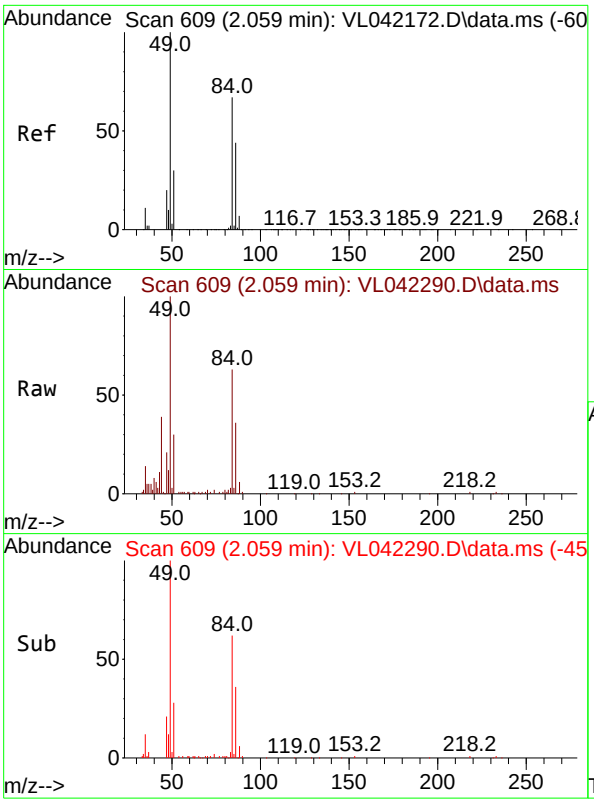




#19
Isopropyl Alcohol
Concen: 1.800 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

Tgt Ion: 45 Resp: 22614

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 89.0 | 36.9 | 55.3# |



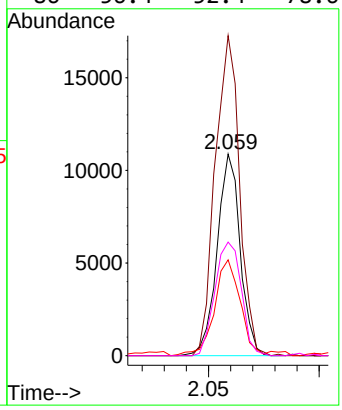


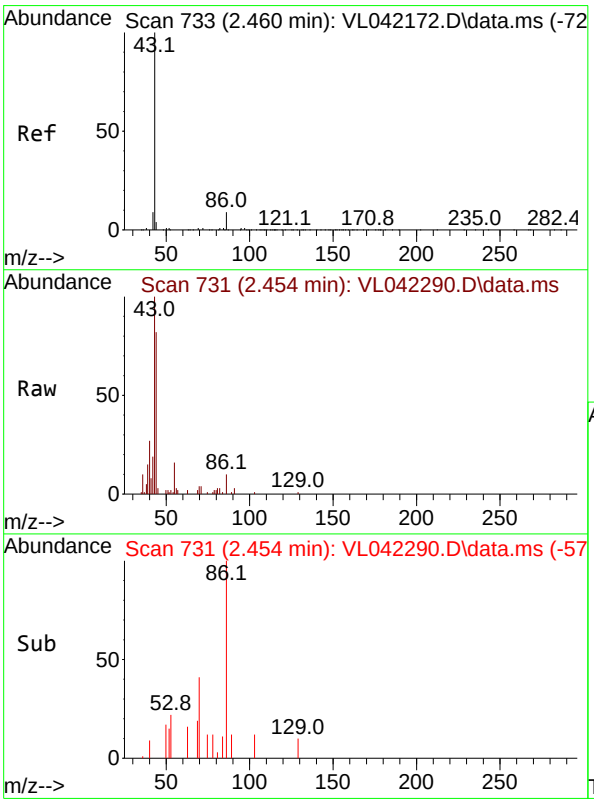

#20
Methylene Chloride
Concen: 0.953 ppbv
RT: 2.059 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025

Tgt Ion: 84 Resp: 7901

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 158.8 | 120.2 | 180.4 |
| 51 | 47.0 | 37.4 | 56.0 |
| 86 | 56.4 | 52.4 | 78.6 |

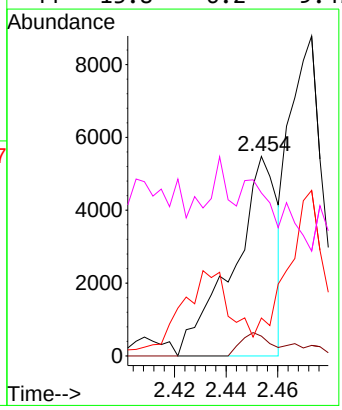


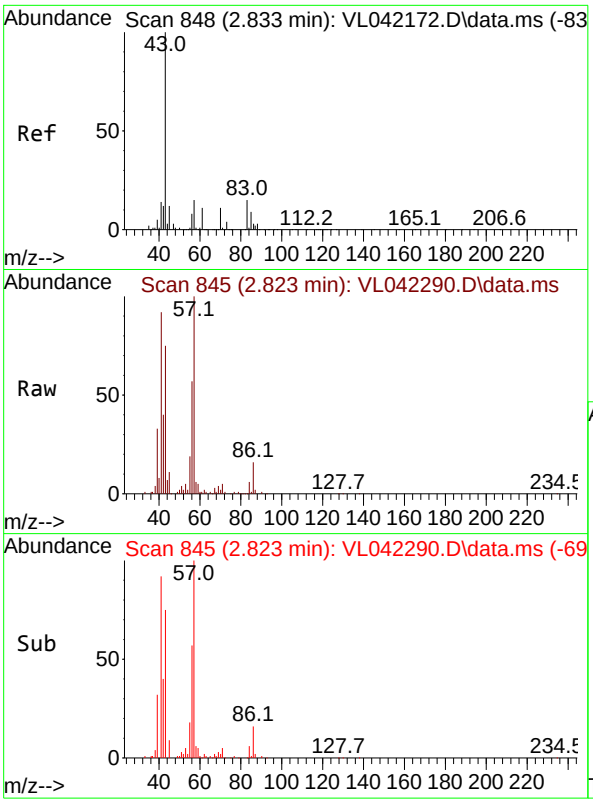




#23
Vinyl Acetate
Concen: 0.671 ppbv
RT: 2.454 min Scan# 731
Delta R.T. -0.007 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

Tgt Ion: 43 Resp: 6464

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.0 | 5.5 | 8.3# |
| 42 | 0.0 | 8.6 | 13.0# |
| 44 | 13.8 | 6.2 | 9.4# |



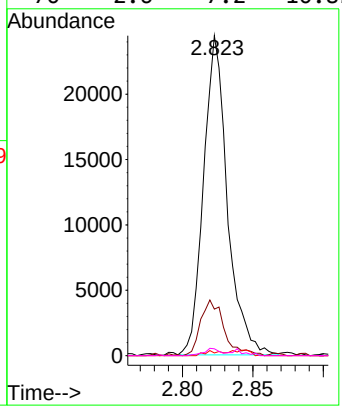


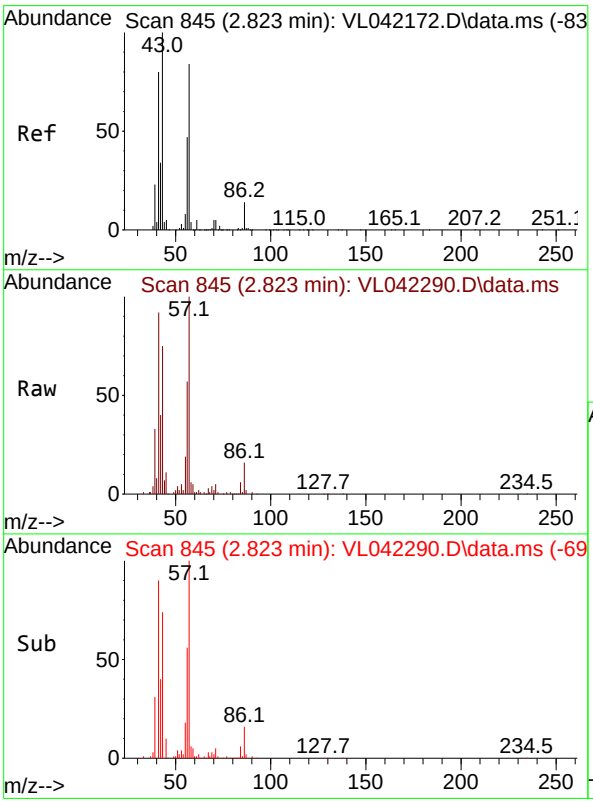

#25
Ethyl Acetate
Concen: 0.496 ppbv
RT: 2.823 min Scan# 84
Delta R.T. -0.010 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025

Tgt Ion: 43 Resp: 28683

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 18.4 | 8.2 | 12.2# |
| 61 | 2.4 | 7.3 | 10.9# |
| 70 | 2.6 | 7.2 | 10.8# |

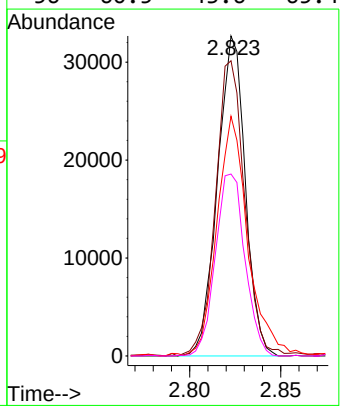


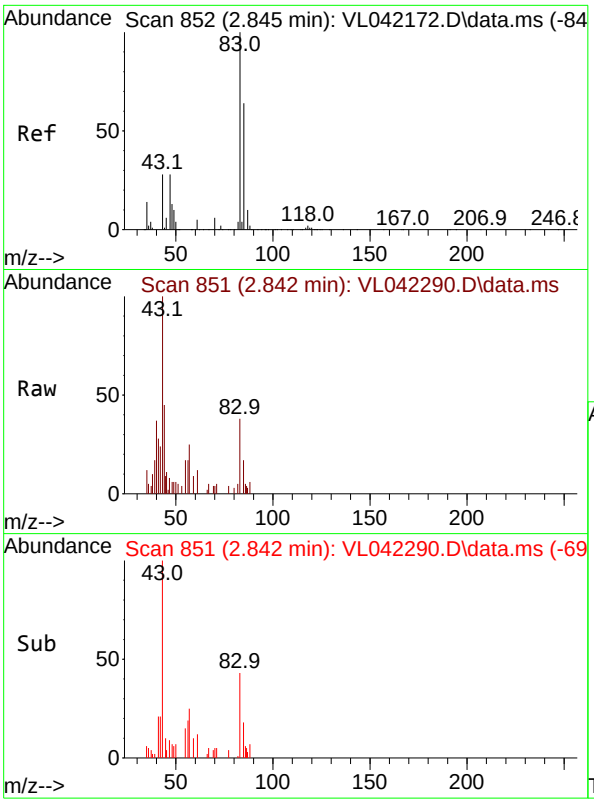




#26
Hexane
Concen: 1.553 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

Tgt Ion: 57 Resp: 34660

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 96.0 | 76.6 | 114.8 |
| 43 | 85.4 | 207.8 | 311.8# |
| 56 | 60.5 | 43.6 | 65.4 |



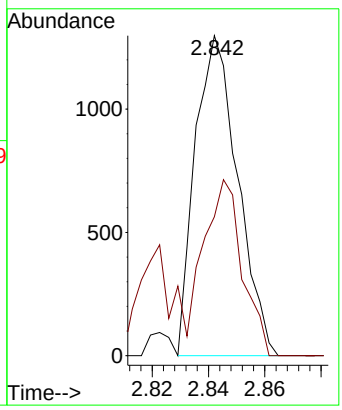


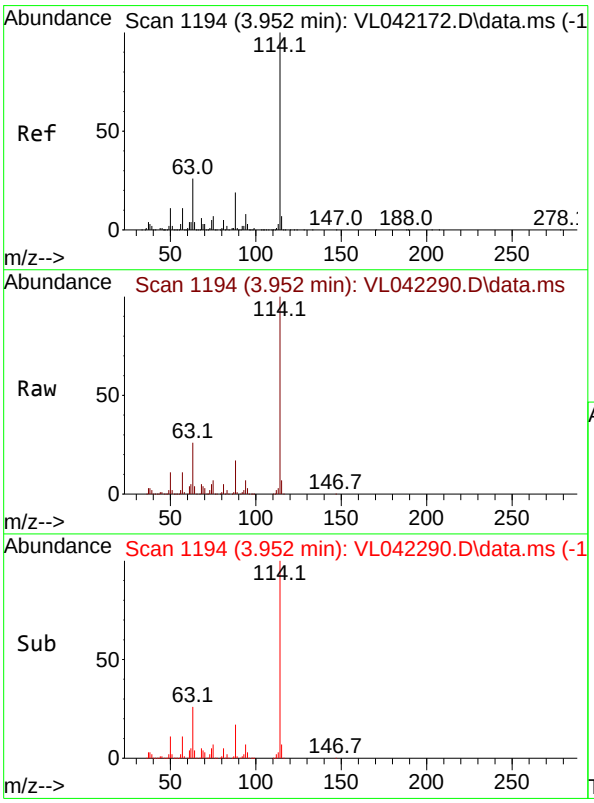

#29
Chloroform
Concen: 0.042 ppbv
RT: 2.842 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025

Tgt Ion: 83 Resp: 1363

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 43.4 | 51.4 | 77.2# |

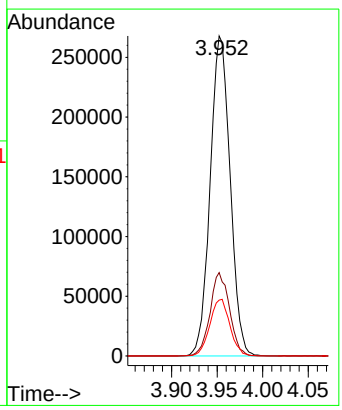


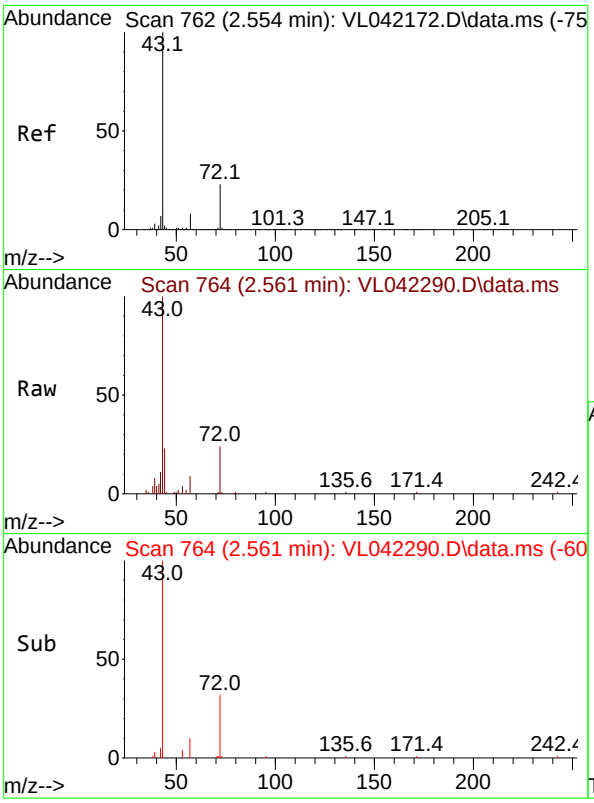




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

Tgt Ion:114 Resp: 408039

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.4 | 20.7 | 31.1 |
| 88 | 17.8 | 15.0 | 22.4 |



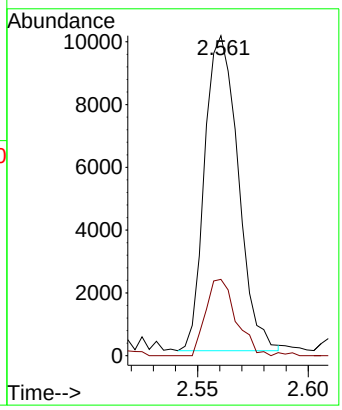


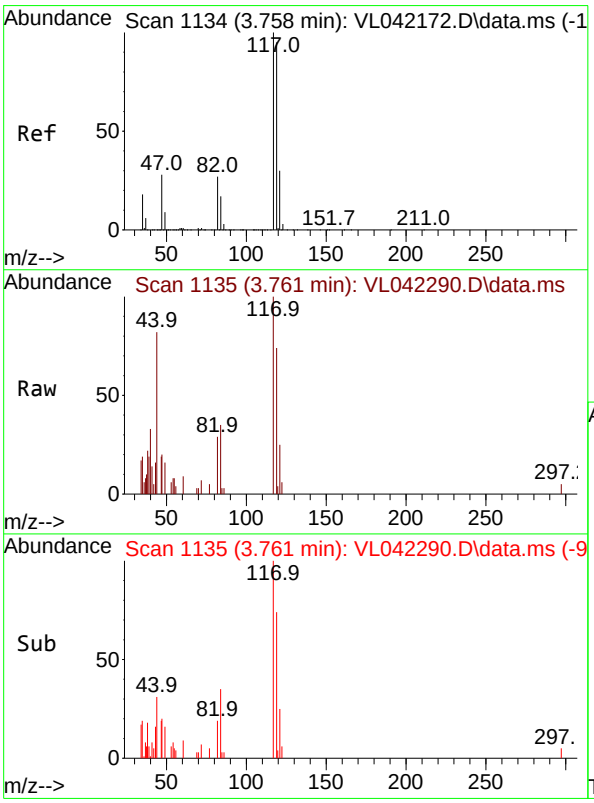

#34
2-Butanone
Concen: 0.357 ppbv
RT: 2.561 min Scan# 7
Delta R.T. 0.006 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025

Tgt Ion: 43 Resp: 10562

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 22.3 | 18.2 | 27.2 |

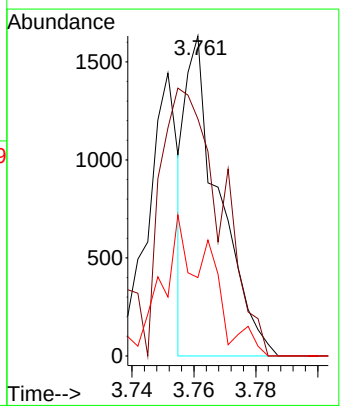


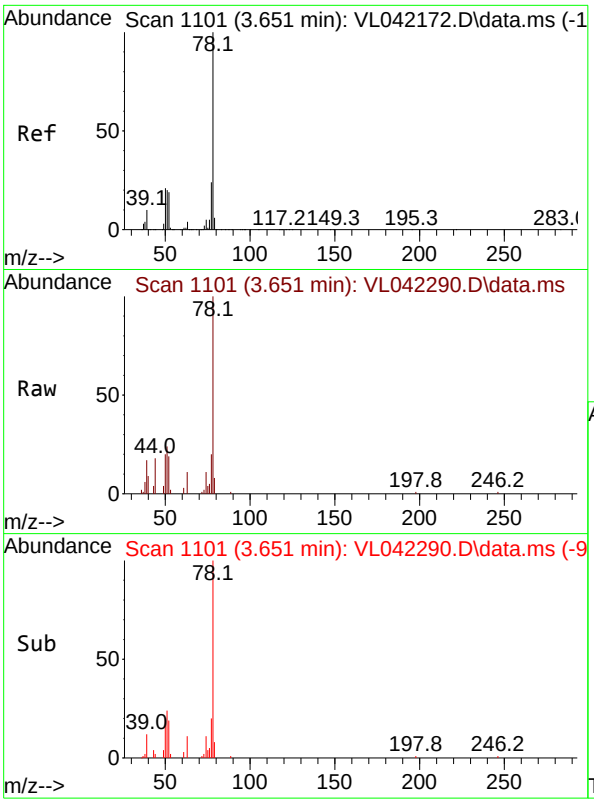




#35
Carbon Tetrachloride
Concen: 0.039 ppbv
RT: 3.761 min Scan# 1135
Delta R.T. 0.003 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

Tgt Ion:117 Resp: 1242

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 78.2 | 76.2 | 114.2 |
| 121 | 24.5 | 24.2 | 36.4 |



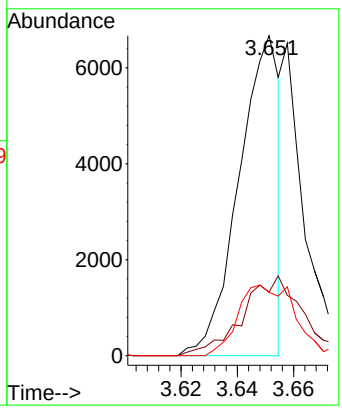


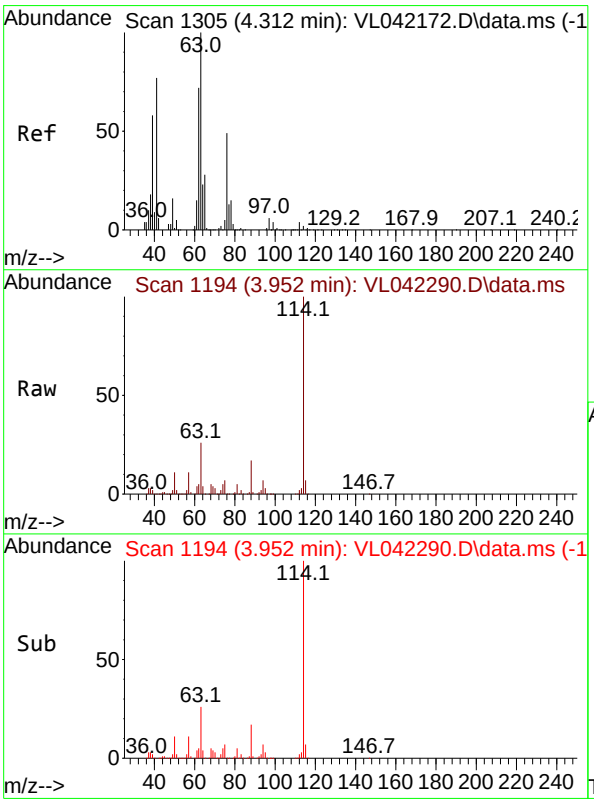

#36
Benzene
Concen: 0.164 ppbv
RT: 3.651 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025

Tgt Ion: 78 Resp: 6629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 19.9 | 19.1 | 28.7 |
| 50 | 19.8 | 16.6 | 24.8 |

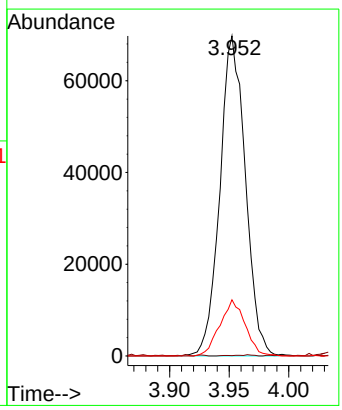


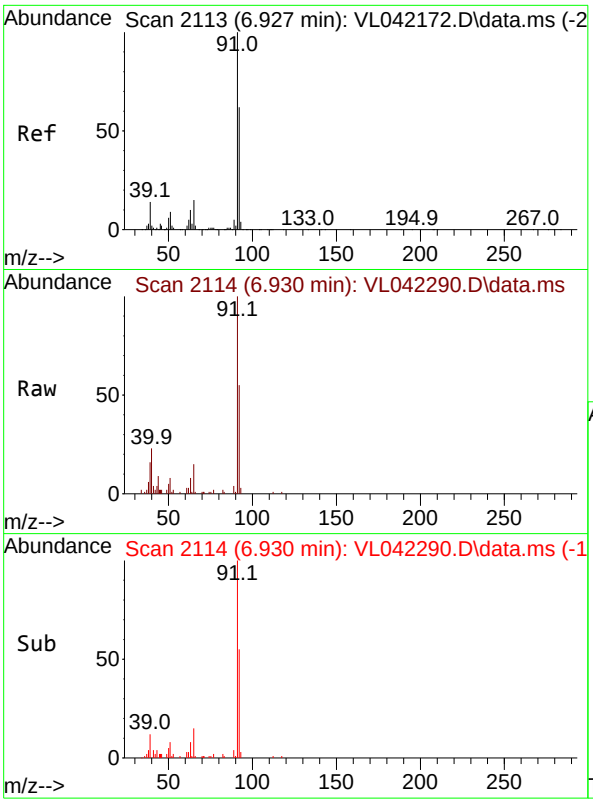




#39
1,2-Dichloropropane
Concen: 7.034 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.359 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

Tgt Ion: 63 Resp: 103630

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 0.0 | 61.7 | 92.5# |
| 62 | 17.5 | 57.6 | 86.4# |



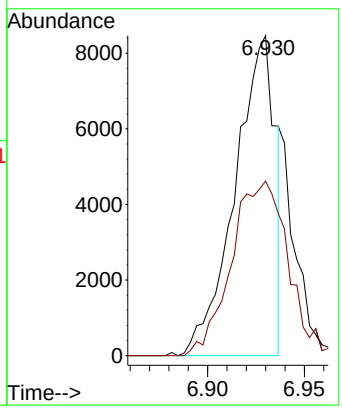


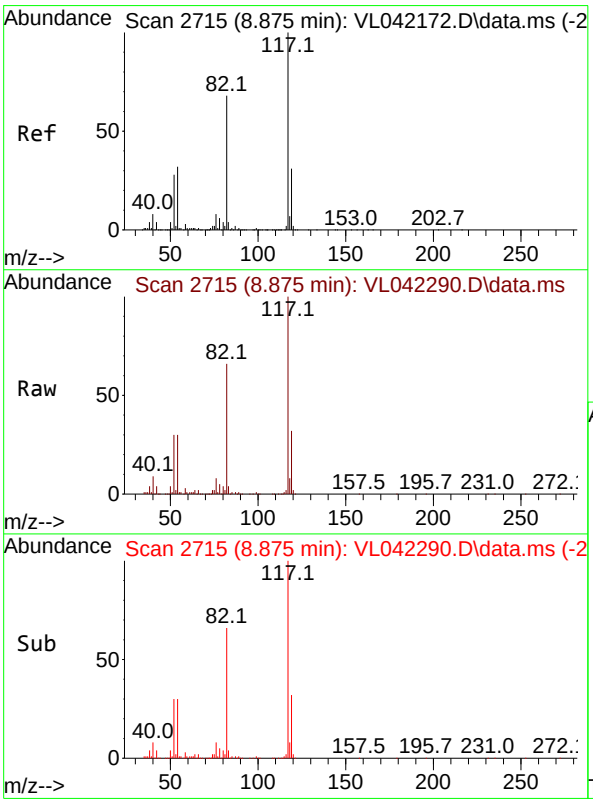

#53
Toluene
Concen: 0.256 ppbv
RT: 6.930 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025

Tgt Ion: 91 Resp: 12275

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 76.4 | 48.4 | 72.6# |

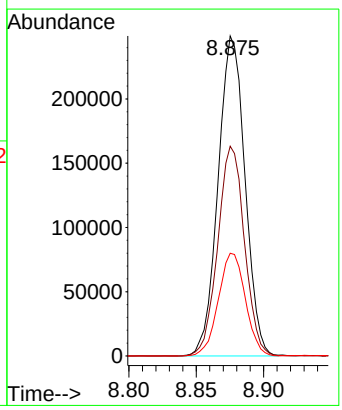


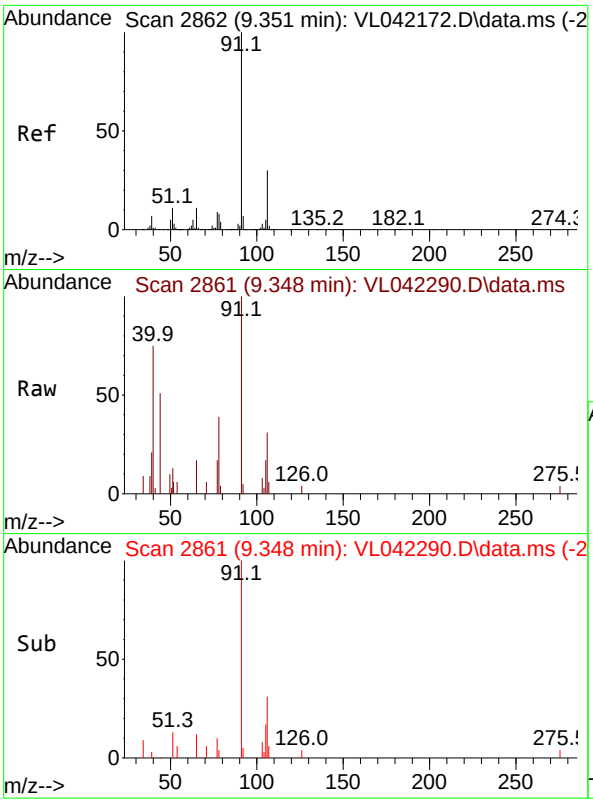




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

Tgt Ion:117 Resp: 345931

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 65.1 | 55.8 | 83.6 |
| 119 | 32.4 | 25.5 | 38.3 |



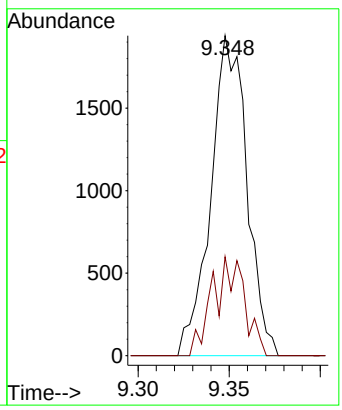


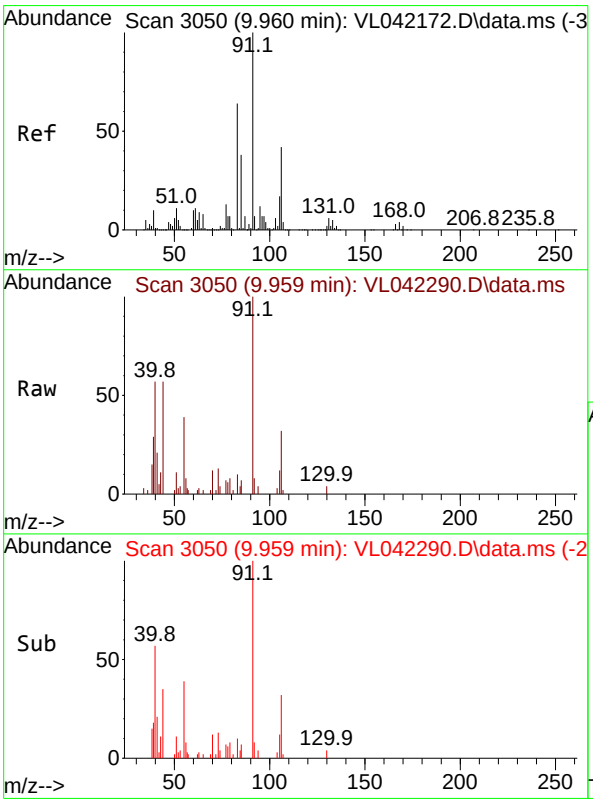

#58
Ethyl Benzene
Concen: 0.044 ppbv
RT: 9.348 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025

Tgt Ion: 91 Resp: 2673

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.9 | 24.2 | 36.2 |

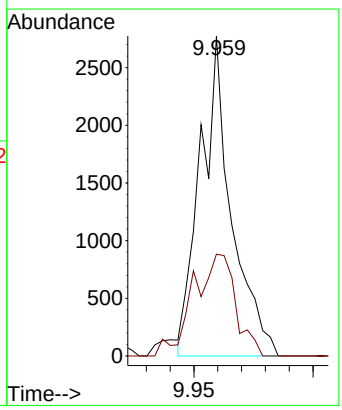


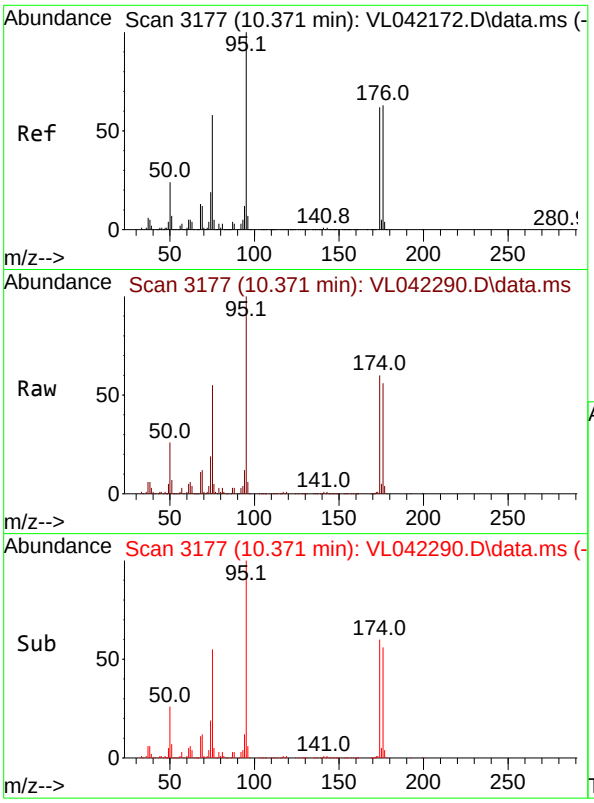




#60
o-Xylene
Concen: 0.051 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

Tgt Ion: 91 Resp: 2526

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 43.2 | 20.8 | 62.5 |



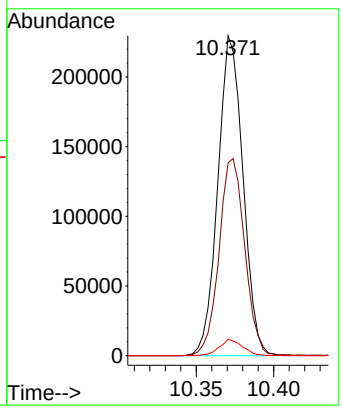


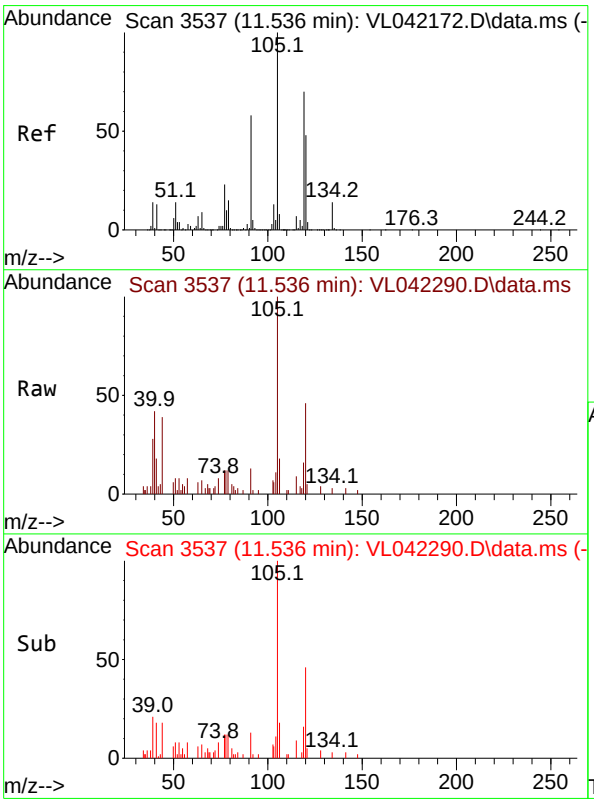

#68
1-Bromo-4-Fluorobenzene
Concen: 9.116 ppbv
RT: 10.371 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025

Tgt Ion: 95 Resp: 258960

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 63.3 | 50.6 | 76.0 |
| 175 | 4.8 | 3.8 | 5.6 |

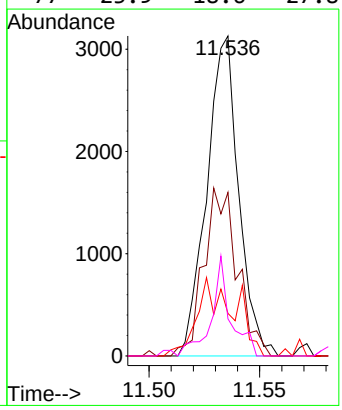


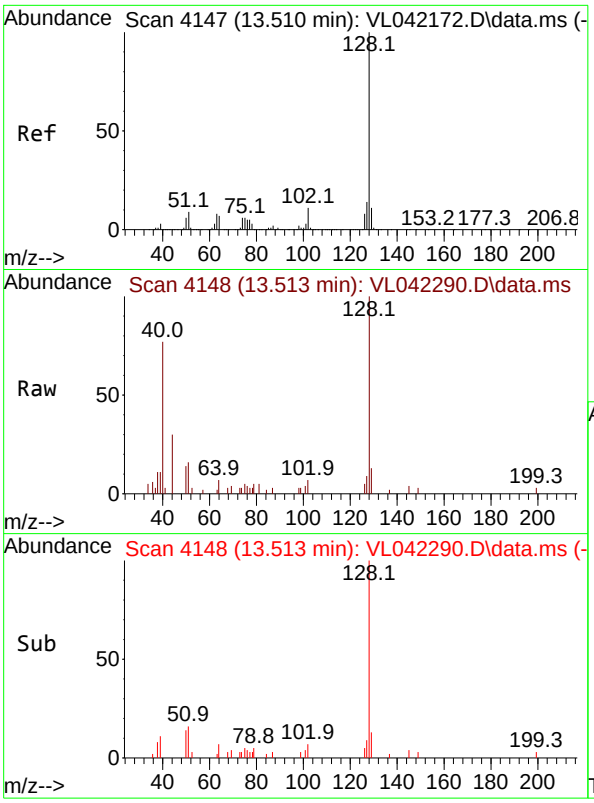




#74
1,2,4-Trimethylbenzene
Concen: 0.051 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.000 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

Tgt Ion:105 Resp: 3147

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 51.1 | 38.6 | 58.0 |
| 91 | 13.3 | 46.2 | 69.2# |
| 77 | 23.9 | 18.6 | 27.8 |



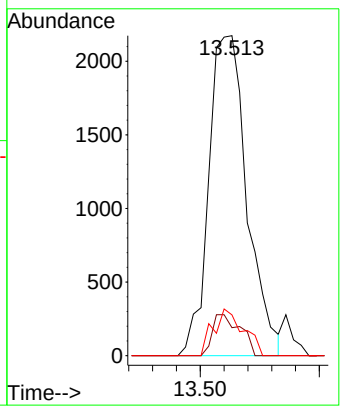


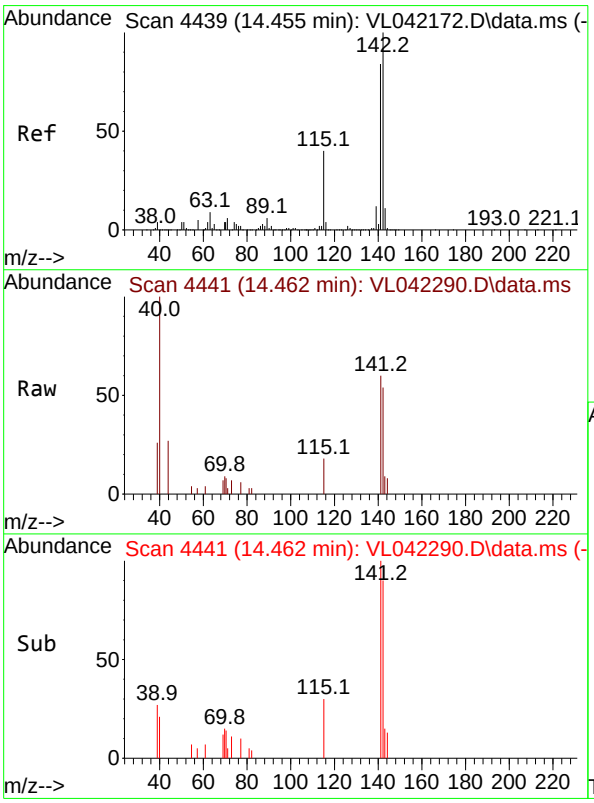

#79
Naphthalene
Concen: 0.036 ppbv
RT: 13.513 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025

Tgt Ion:128 Resp: 2423

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 8.7 | 10.8 | 16.2# |
| 129 | 12.7 | 9.0 | 13.4 |

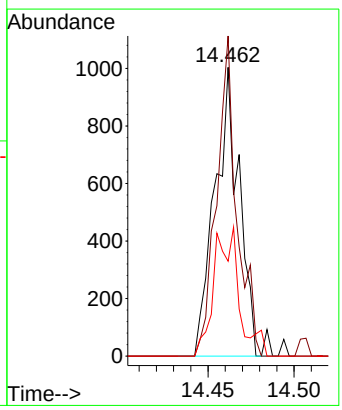


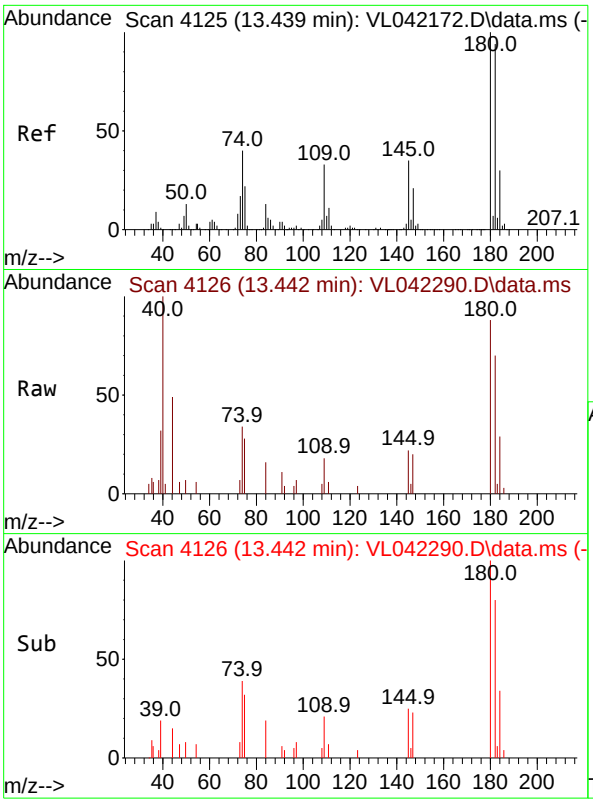




#80
Naphthalene,2-methyl-
Concen: 0.030 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.006 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

Tgt Ion:142 Resp: 999

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 90.9 | 66.3 | 99.5 |
| 115 | 45.1 | 31.6 | 47.4 |



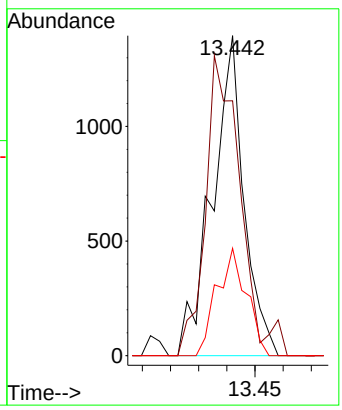



#81
1,2,4-Trichlorobenzene
Concen: 0.035 ppbv
RT: 13.442 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042290.D
Acq: 09 Apr 2025 13:25

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025

Tgt Ion:180 Resp: 1092

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 102.4 | 75.1 | 112.7 |
| 184 | 31.3 | 24.4 | 36.6 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042291.D
Acq On : 09 Apr 2025 14:02
Operator : SY/MD
Sample : Q1665-01DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025DUP

Quant Time: Apr 10 01:43:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

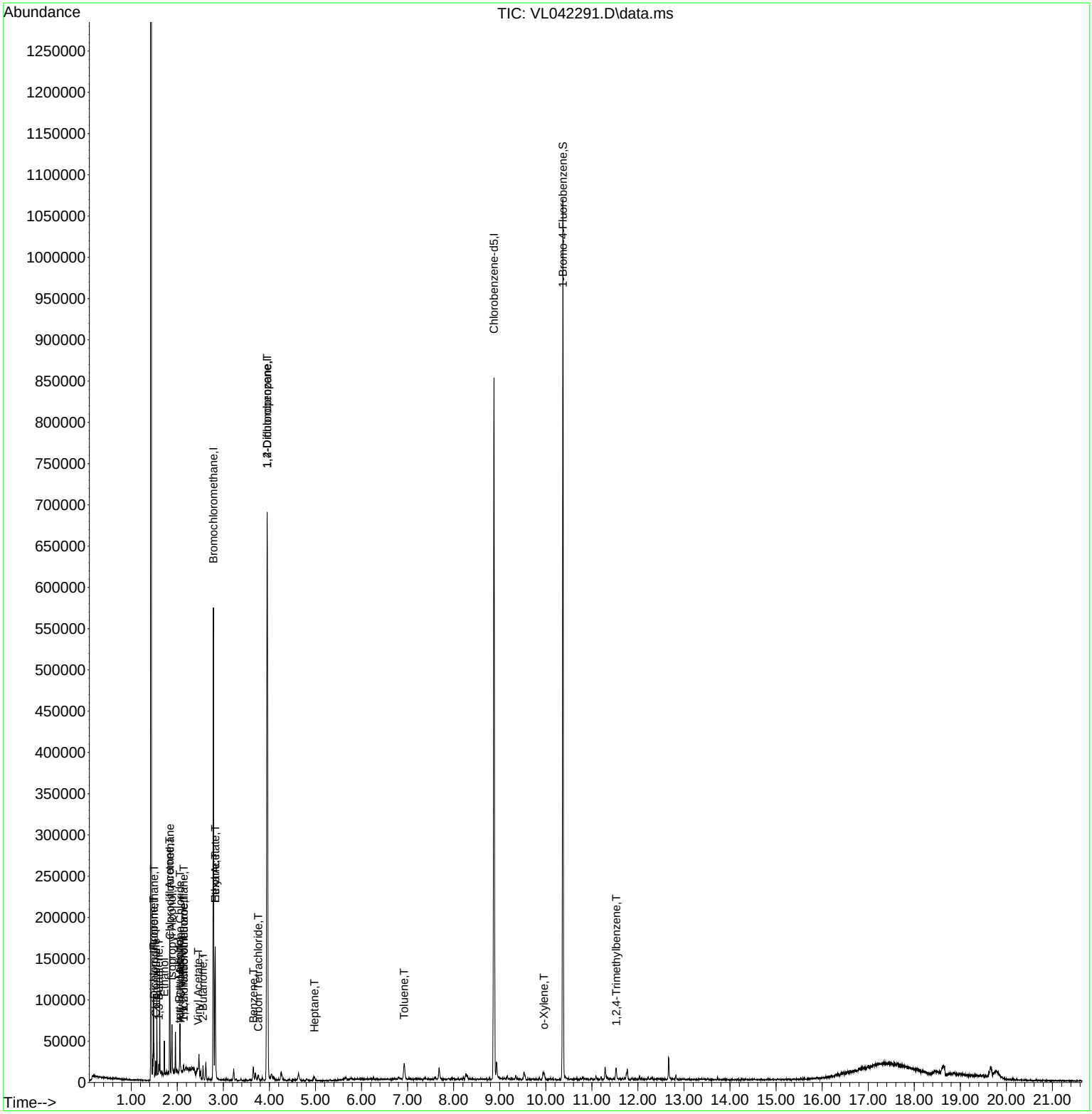
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.784 | 49 | 156655 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.952 | 114 | 397453 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.875 | 117 | 332015 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.371 | 95 | 254829 | 9.346 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 93.500% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.496 | 85 | 8694 | 0.376 | ppbv | 98 |
| 3) Chlorodifluoromethane | 1.842 | 51 | 769 | 0.033 | ppbv | 97 |
| 4) Chloromethane | 1.531 | 50 | 5160 | 0.546 | ppbv | 96 |
| 9) Propene | 1.486 | 41 | 8735 | 0.807 | ppbv | 85 |
| 10) Heptane | 4.975 | 43 | 1165 | 0.040 | ppbv # | 70 |
| 11) Trichlorofluoromethane | 2.140 | 101 | 1343 | 0.060 | ppbv | 87 |
| 12) 1,1,2-Trichlorotrifluo... | 2.140 | 101 | 1343 | 0.073 | ppbv | 93 |
| 13) Ethanol | 1.719 | 45 | 13066 | 12.762 | ppbv | 82 |
| 15) Acetone | 1.832 | 43 | 79514 | 3.629 | ppbv | 93 |
| 16) 1,3-Butadiene | 1.599 | 39 | 2144 | 0.200 | ppbv # | 50 |
| 17) tert-Butyl alcohol | 2.043 | 59 | 1332 | 0.049 | ppbv # | 71 |
| 19) Isopropyl Alcohol | 1.884 | 45 | 23262 | 1.882 | ppbv # | 39 |
| 20) Methylene Chloride | 2.059 | 84 | 7721 | 0.946 | ppbv | 92 |
| 21) Allyl Chloride | 2.075 | 41 | 532 | 0.034 | ppbv # | 48 |
| 23) Vinyl Acetate | 2.454 | 43 | 2459 | 0.259 | ppbv # | 35 |
| 25) Ethyl Acetate | 2.823 | 43 | 24881 | 0.438 | ppbv # | 82 |
| 26) Hexane | 2.823 | 57 | 29831 | 1.358 | ppbv # | 32 |
| 34) 2-Butanone | 2.557 | 43 | 9468 | 0.329 | ppbv | 96 |
| 35) Carbon Tetrachloride | 3.755 | 117 | 2063 | 0.066 | ppbv # | 65 |
| 36) Benzene | 3.655 | 78 | 9601 | 0.244 | ppbv | 99 |
| 39) 1,2-Dichloropropane | 3.952 | 63 | 100711 | 7.018 | ppbv # | 22 |
| 53) Toluene | 6.924 | 91 | 12958 | 0.277 | ppbv | 96 |
| 60) o-Xylene | 9.959 | 91 | 2248 | 0.048 | ppbv | 98 |
| 74) 1,2,4-Trimethylbenzene | 11.532 | 105 | 2929 | 0.050 | ppbv # | 64 |

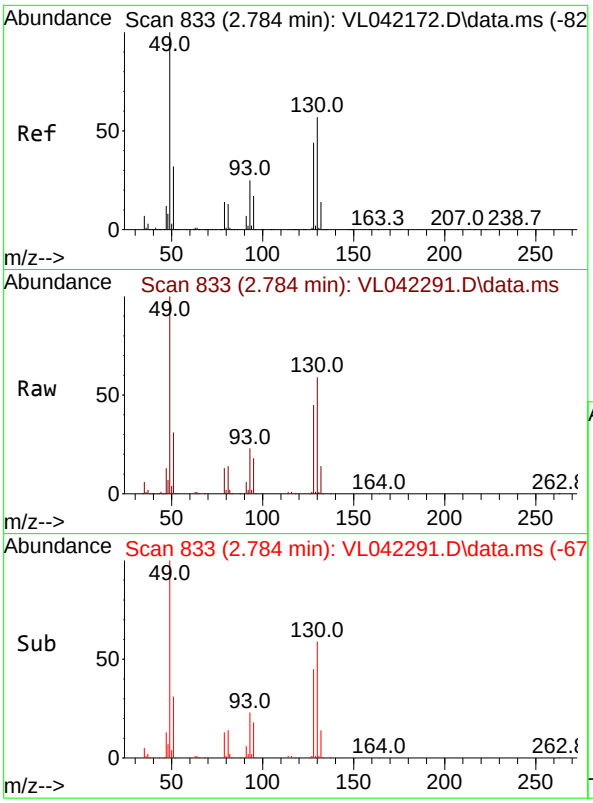
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042291.D
Acq On : 09 Apr 2025 14:02
Operator : SY/MD
Sample : Q1665-01DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025DUP

Quant Time: Apr 10 01:43:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration



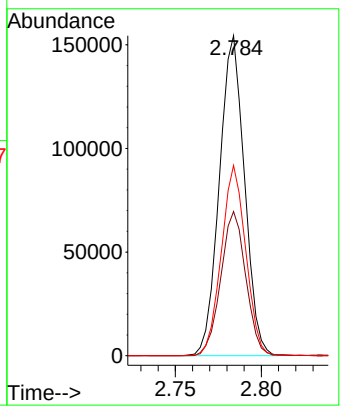


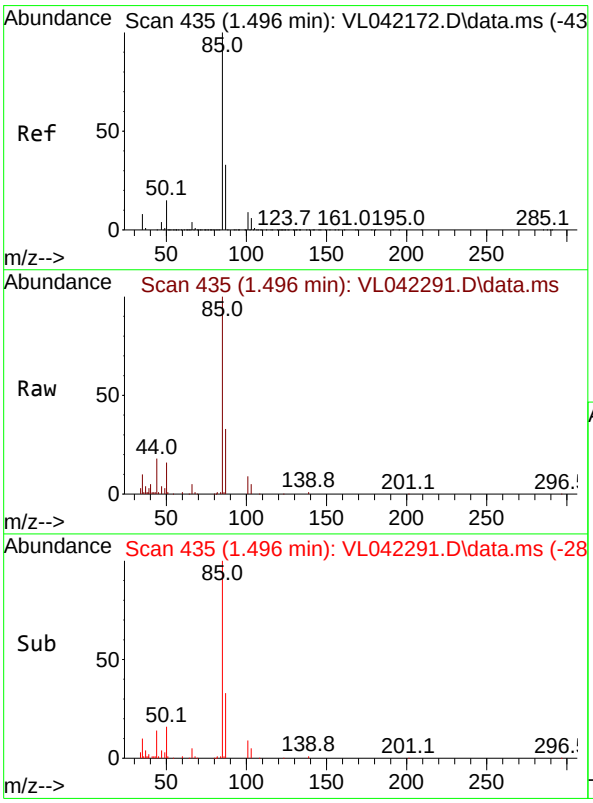

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042291.D
Acq: 09 Apr 2025 14:02

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025DUP

Tgt Ion: 49 Resp: 156655

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 44.8 | 22.9 | 68.5 |
| 130 | 57.8 | 28.8 | 86.4 |

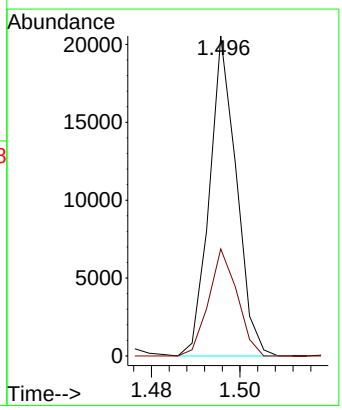


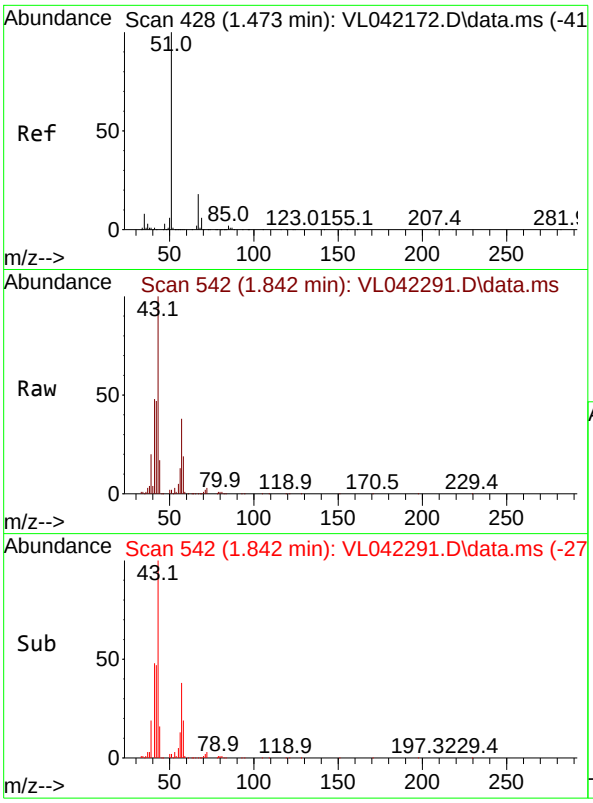




#2
Dichlorodifluoromethane
Concen: 0.376 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042291.D
Acq: 09 Apr 2025 14:02

Tgt Ion: 85 Resp: 8694

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.5 | 26.1 | 39.1 |



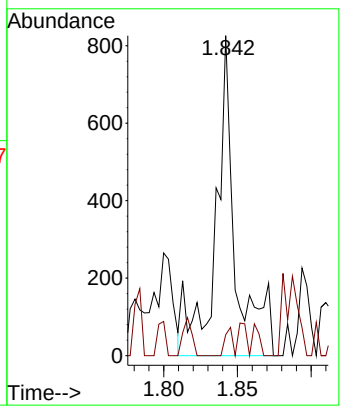


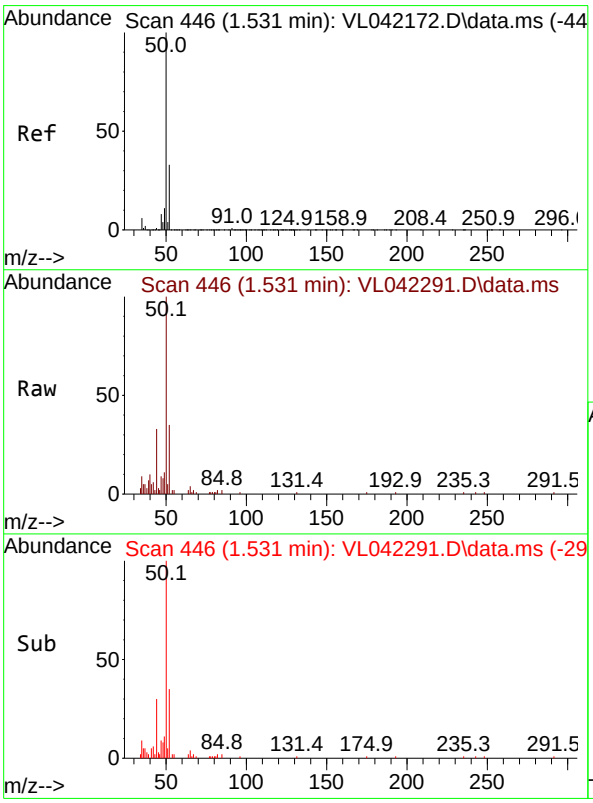

#3
Chlorodifluoromethane
Concen: 0.033 ppbv
RT: 1.842 min Scan# 54
Delta R.T. 0.369 min
Lab File: VL042291.D
Acq: 09 Apr 2025 14:02

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025DUP

Tgt Ion: 51 Resp: 769

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 20.2 | 15.0 | 22.6 |

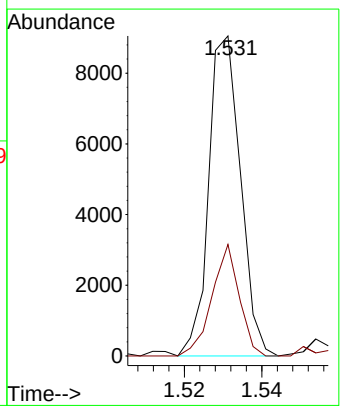


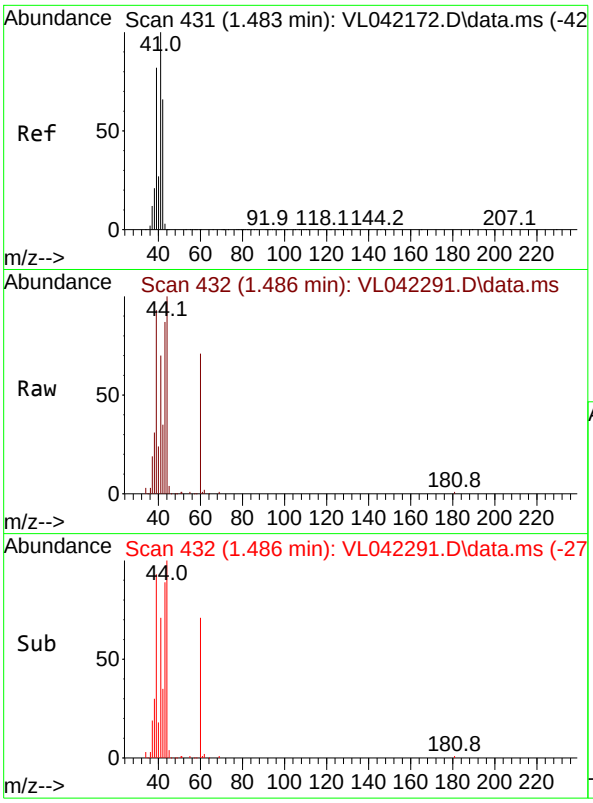




#4
Chloromethane
Concen: 0.546 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042291.D
Acq: 09 Apr 2025 14:02

Tgt Ion: 50 Resp: 5160

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 34.9 | 26.1 | 39.1 |



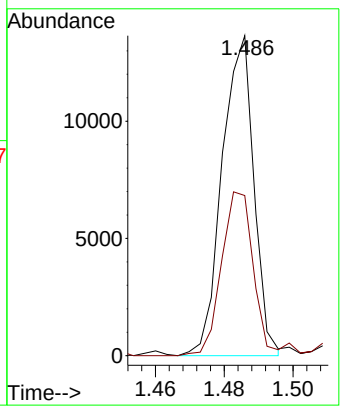


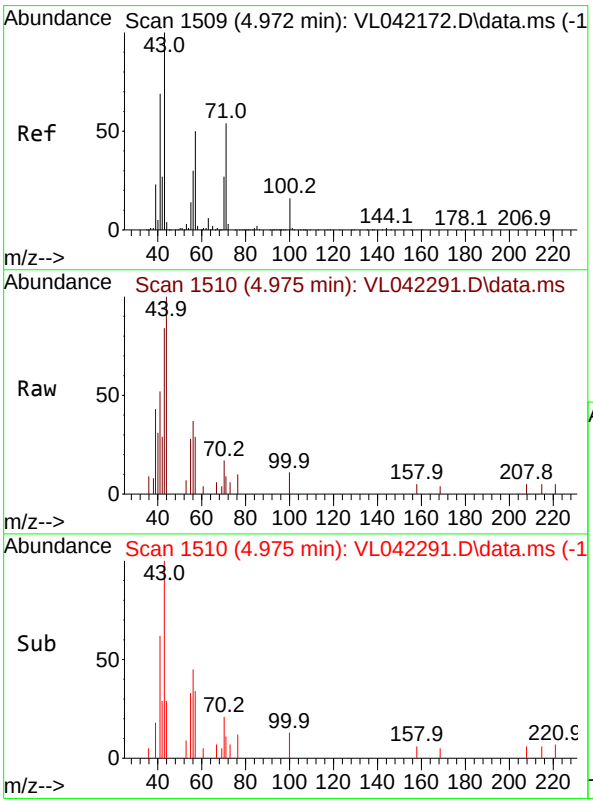

#9
Propene
Concen: 0.807 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042291.D
Acq: 09 Apr 2025 14:02

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025DUP

Tgt Ion: 41 Resp: 8735

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 57.1 | 55.4 | 83.2 |

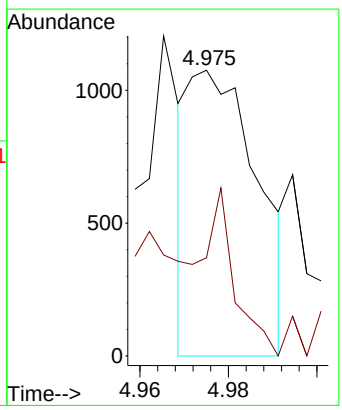


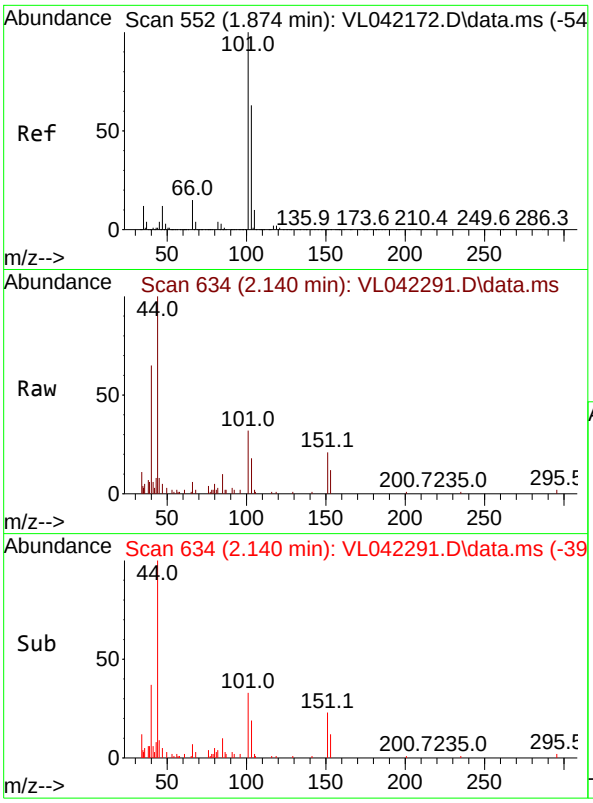




#10
Heptane
Concen: 0.040 ppbv
RT: 4.975 min Scan# 1510
Delta R.T. 0.003 min
Lab File: VL042291.D
Acq: 09 Apr 2025 14:02

Tgt Ion: 43 Resp: 1165

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 70.1 | 39.4 | 59.2# |



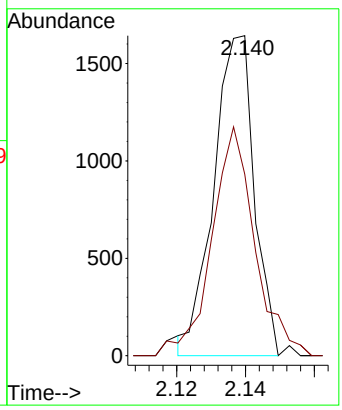


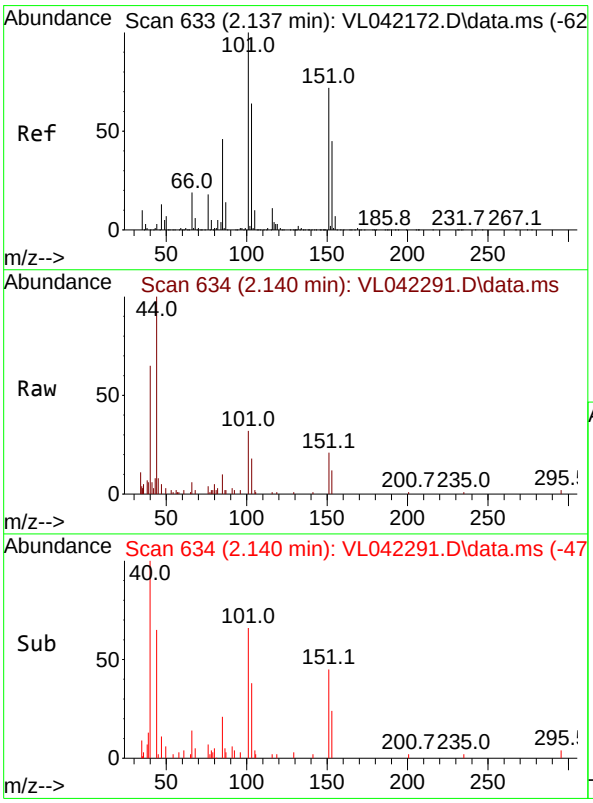

#11
Trichlorofluoromethane
Concen: 0.060 ppbv
RT: 2.140 min Scan# 6
Delta R.T. 0.265 min
Lab File: VL042291.D
Acq: 09 Apr 2025 14:02

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025DUP

Tgt Ion:101 Resp: 1343

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 52.8 | 50.2 | 75.2 |

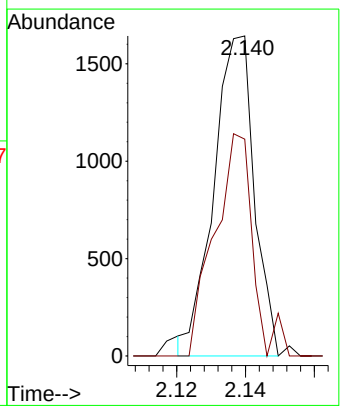


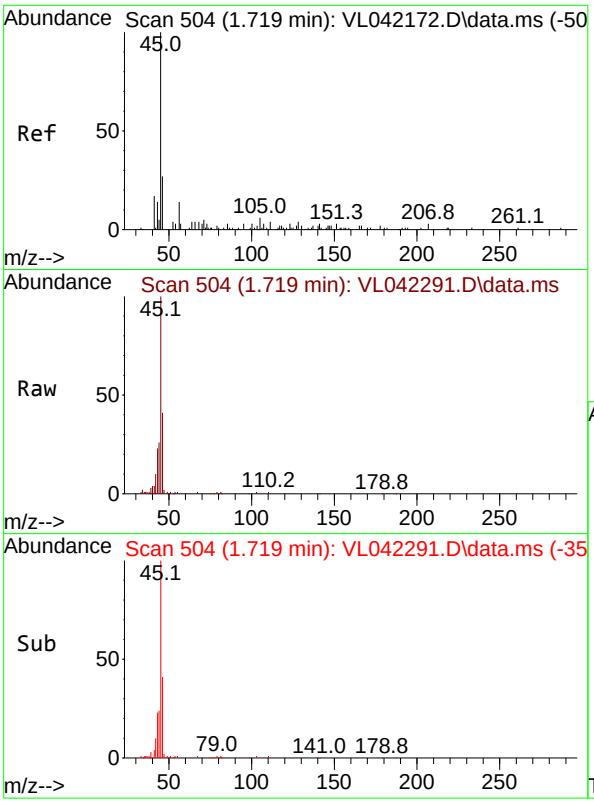




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.073 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042291.D
Acq: 09 Apr 2025 14:02

Tgt Ion:101 Resp: 1343

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 65.7 | 57.1 | 85.7 |



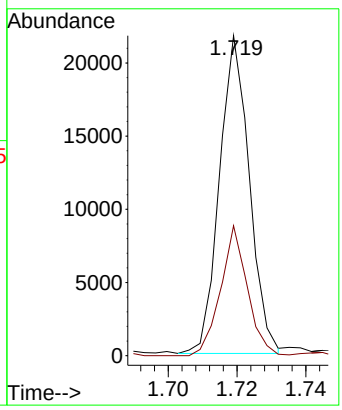


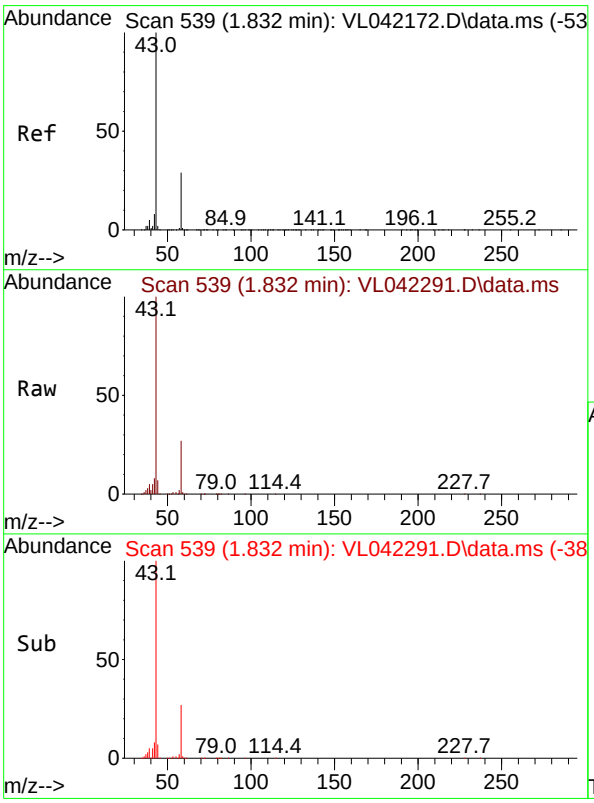

#13
Ethanol
Concen: 12.762 ppbv
RT: 1.719 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042291.D
Acq: 09 Apr 2025 14:02

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025DUP

Tgt Ion: 45 Resp: 13066

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 37.8 | 20.2 | 80.8 |

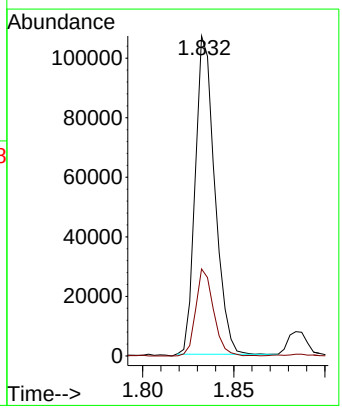


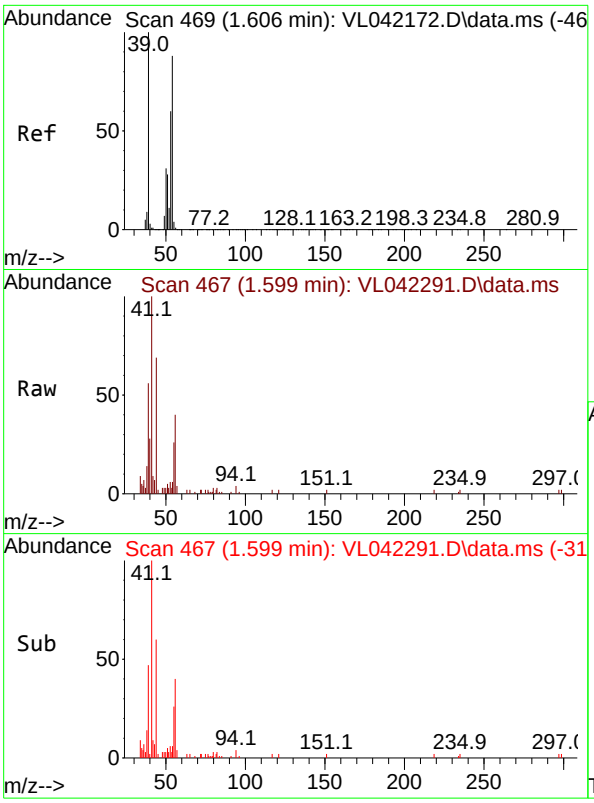




#15
Acetone
Concen: 3.629 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.000 min
Lab File: VL042291.D
Acq: 09 Apr 2025 14:02

Tgt Ion: 43 Resp: 79514

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 25.3 | 23.2 | 34.8 |



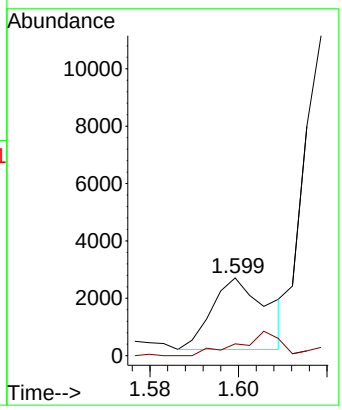


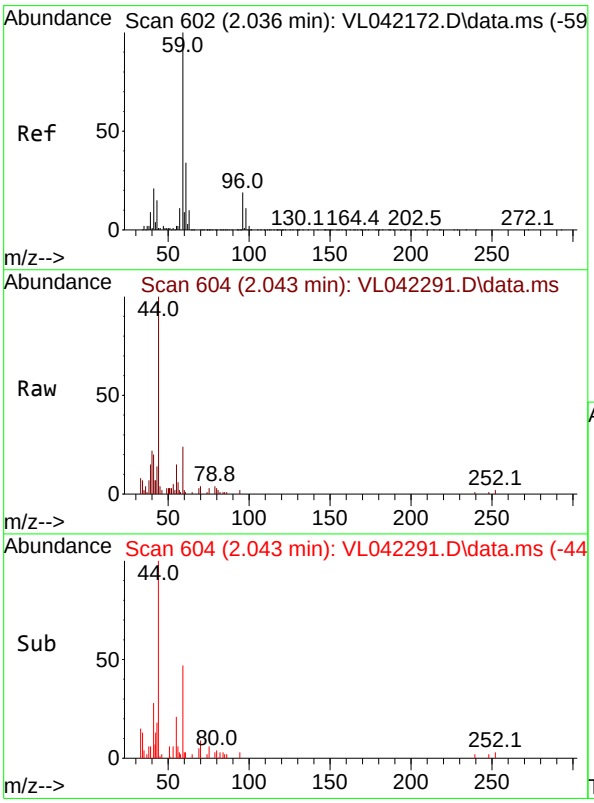

#16
1,3-Butadiene
Concen: 0.200 ppbv
RT: 1.599 min Scan# 4(
Delta R.T. -0.007 min
Lab File: VL042291.D
Acq: 09 Apr 2025 14:02

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025DUP

Tgt Ion: 39 Resp: 2144

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 33.3 | 60.7 | 91.1# |

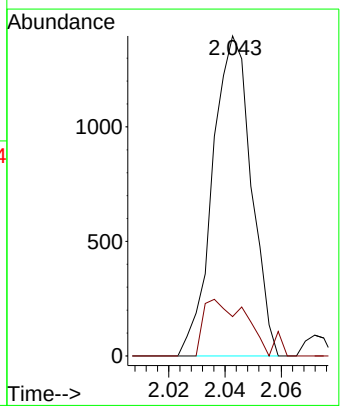


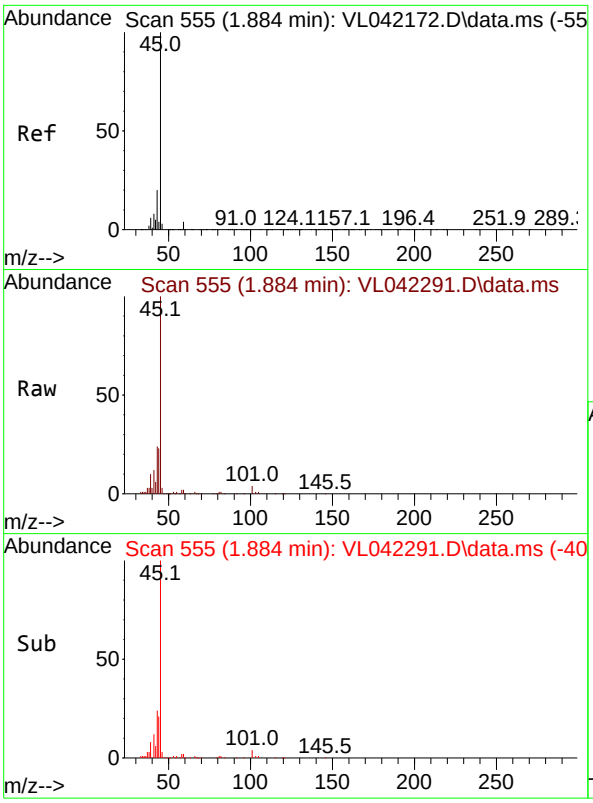




#17
tert-Butyl alcohol
Concen: 0.049 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.006 min
Lab File: VL042291.D
Acq: 09 Apr 2025 14:02

Tgt Ion: 59 Resp: 1332

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 0.0 | 8.9 | 13.3# |



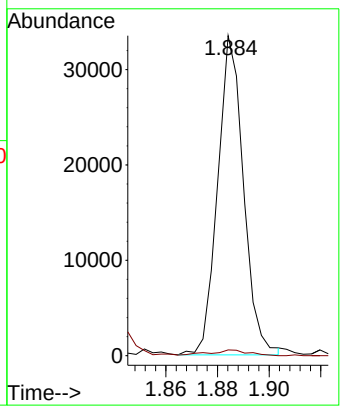


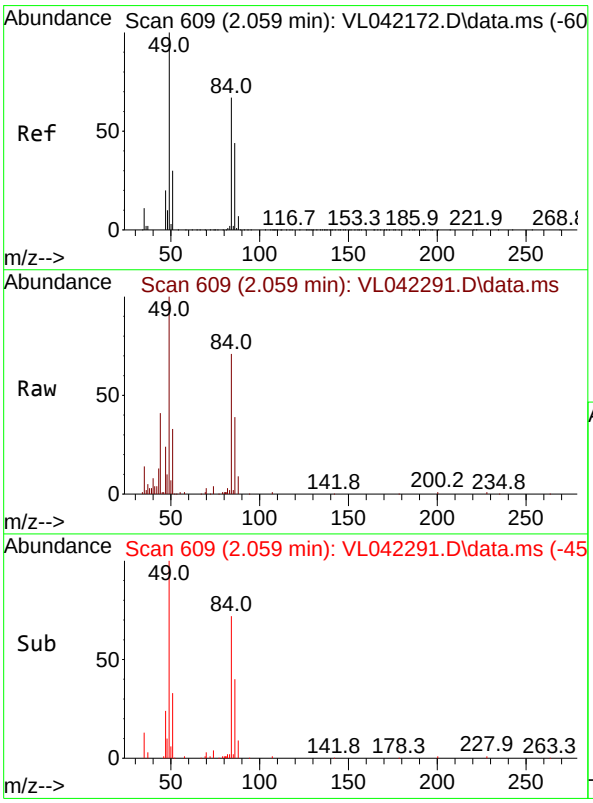

#19
Isopropyl Alcohol
Concen: 1.882 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042291.D
Acq: 09 Apr 2025 14:02

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025DUP

Tgt Ion: 45 Resp: 23262

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 86.4 | 36.9 | 55.3# |

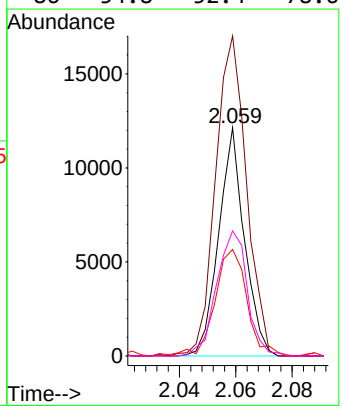


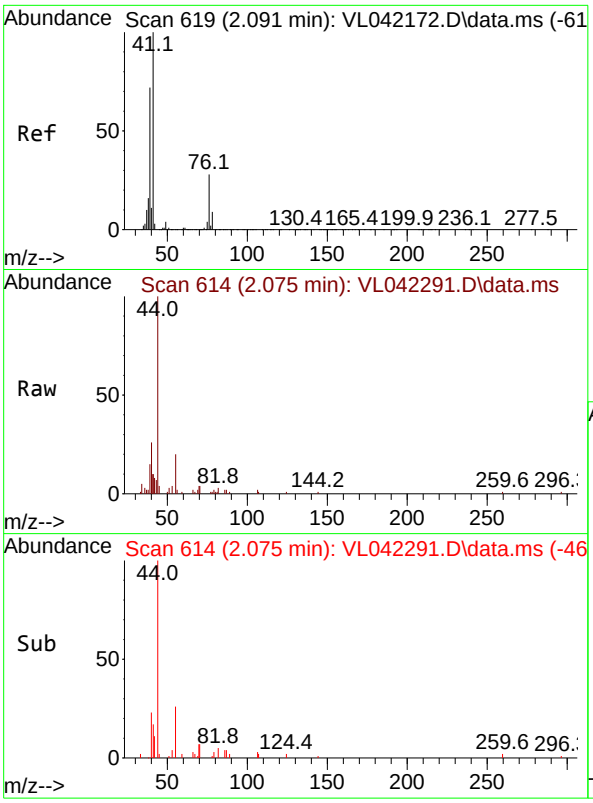




#20
Methylene Chloride
Concen: 0.946 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042291.D
Acq: 09 Apr 2025 14:02

Tgt Ion: 84 Resp: 7721

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 140.2 | 120.2 | 180.4 |
| 51 | 45.4 | 37.4 | 56.0 |
| 86 | 54.8 | 52.4 | 78.6 |



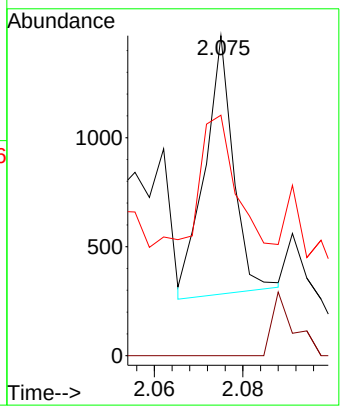


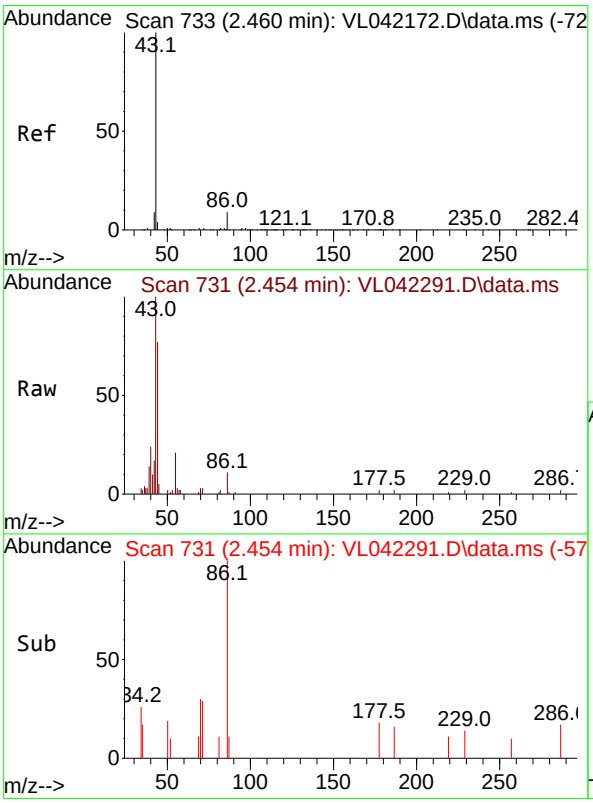

#21
Allyl Chloride
Concen: 0.034 ppbv
RT: 2.075 min Scan# 61
Delta R.T. -0.016 min
Lab File: VL042291.D
Acq: 09 Apr 2025 14:02

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025DUP

Tgt Ion: 41 Resp: 532

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 18.6 | 24.1 | 36.1# |
| 39 | 131.2 | 61.1 | 91.7# |

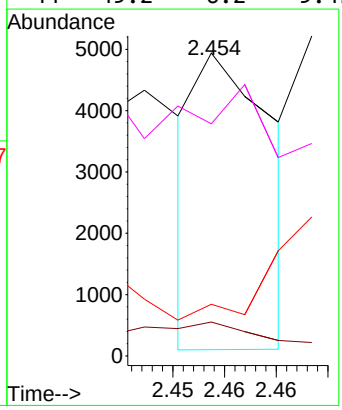


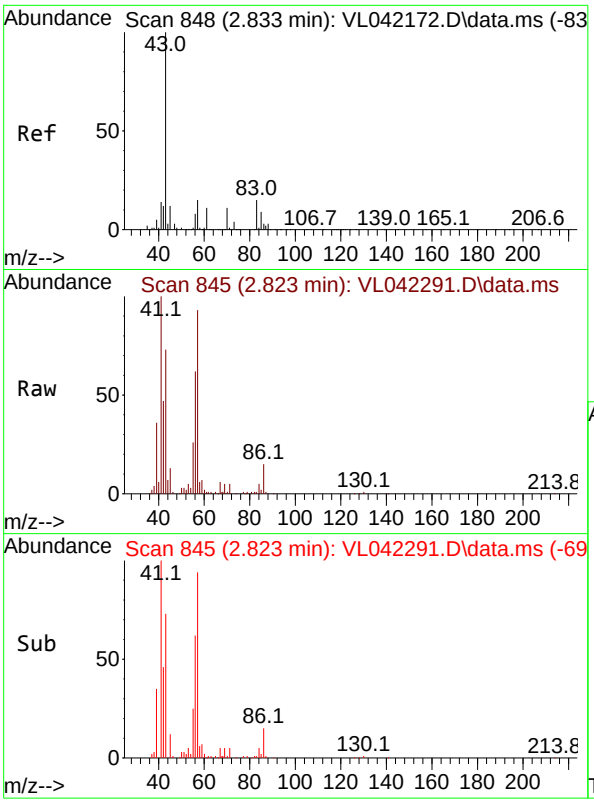




#23
Vinyl Acetate
Concen: 0.259 ppbv
RT: 2.454 min Scan# 731
Delta R.T. -0.007 min
Lab File: VL042291.D
Acq: 09 Apr 2025 14:02

Tgt Ion: 43 Resp: 2459

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 26.8 | 5.5 | 8.3# |
| 42 | 23.0 | 8.6 | 13.0# |
| 44 | 49.2 | 6.2 | 9.4# |



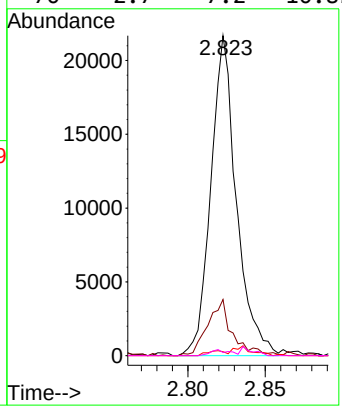


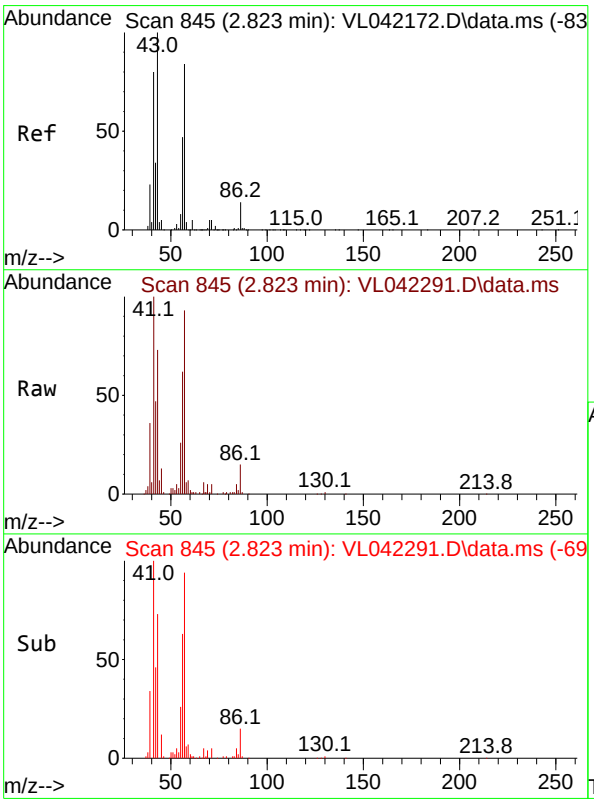

#25
Ethyl Acetate
Concen: 0.438 ppbv
RT: 2.823 min Scan# 84
Delta R.T. -0.010 min
Lab File: VL042291.D
Acq: 09 Apr 2025 14:02

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025DUP

Tgt Ion: 43 Resp: 24881

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 17.9 | 8.2 | 12.2# |
| 61 | 3.3 | 7.3 | 10.9# |
| 70 | 2.7 | 7.2 | 10.8# |

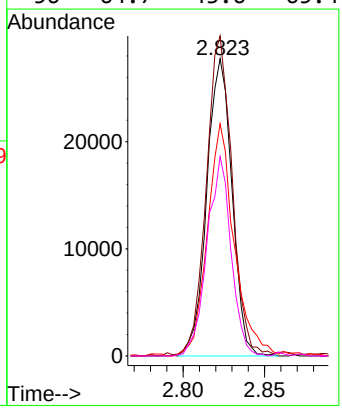


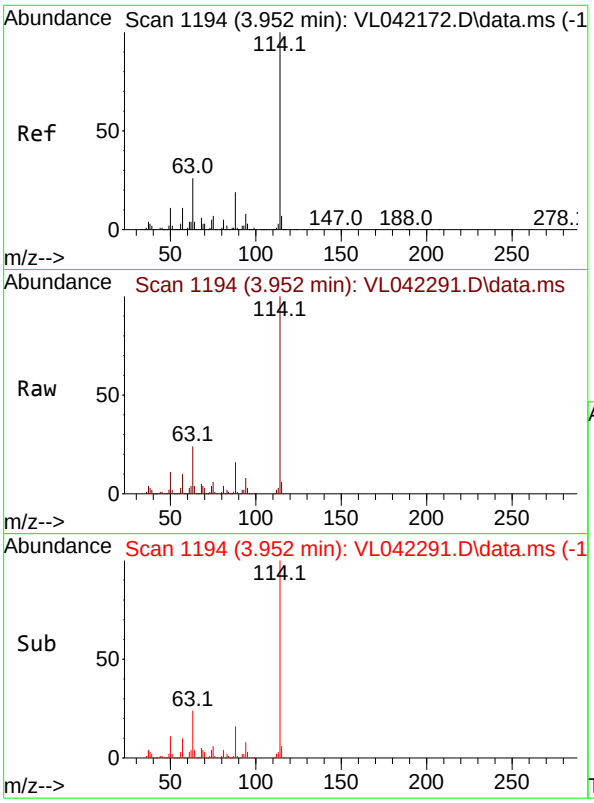




#26
Hexane
Concen: 1.358 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042291.D
Acq: 09 Apr 2025 14:02

Tgt Ion: 57 Resp: 29831

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 111.8 | 76.6 | 114.8 |
| 43 | 85.5 | 207.8 | 311.8# |
| 56 | 64.7 | 43.6 | 65.4 |



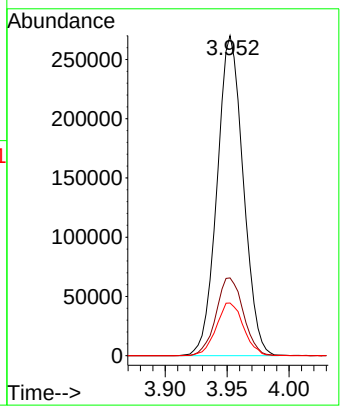


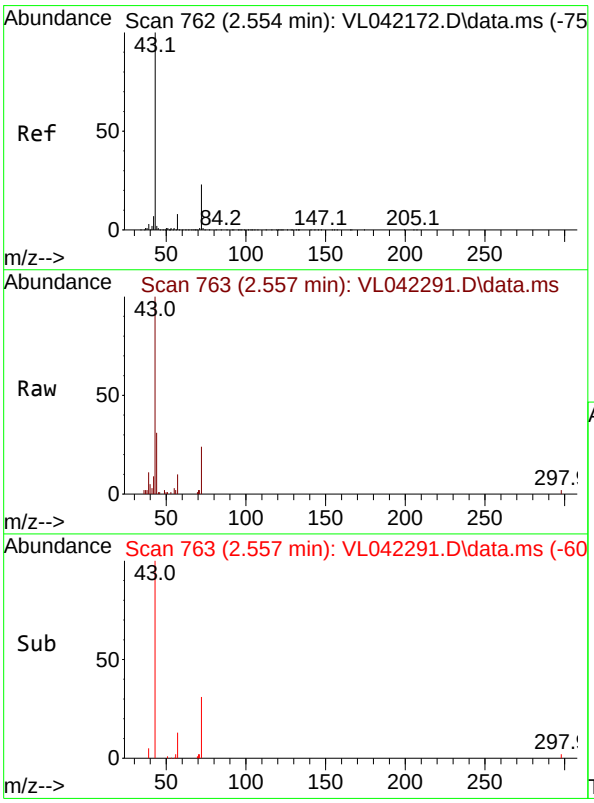

#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042291.D
Acq: 09 Apr 2025 14:02

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025DUP

Tgt Ion:114 Resp: 397453

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.5 | 20.7 | 31.1 |
| 88 | 17.2 | 15.0 | 22.4 |

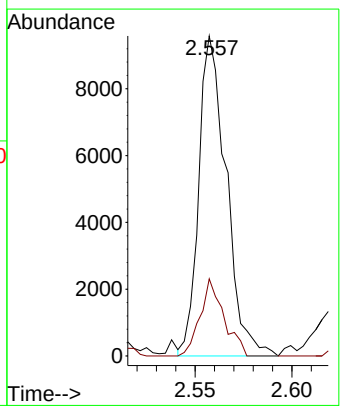


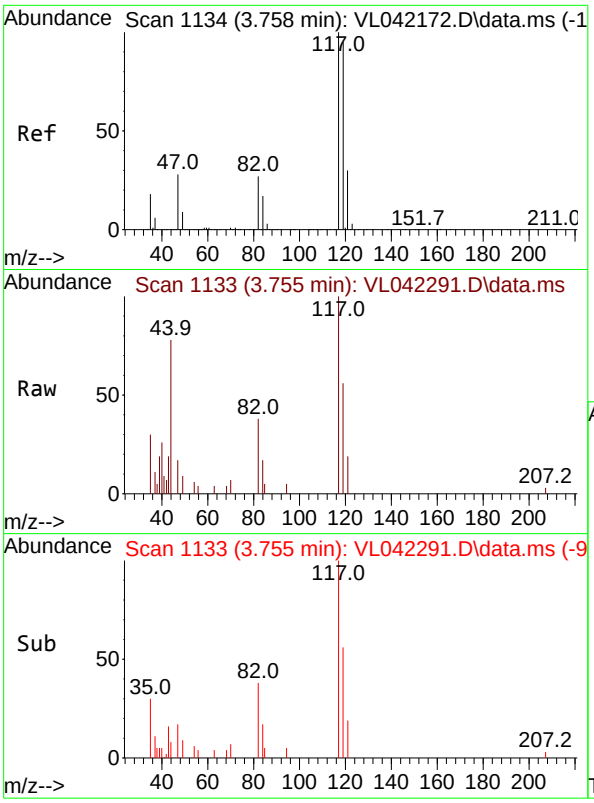




#34
2-Butanone
Concen: 0.329 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.003 min
Lab File: VL042291.D
Acq: 09 Apr 2025 14:02

Tgt Ion: 43 Resp: 9468

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 20.8 | 18.2 | 27.2 |



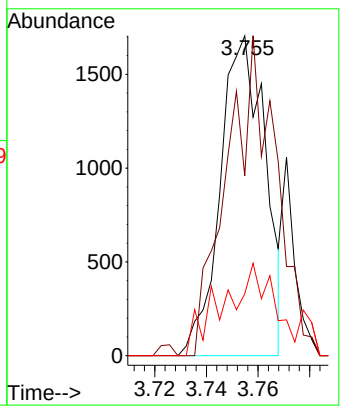


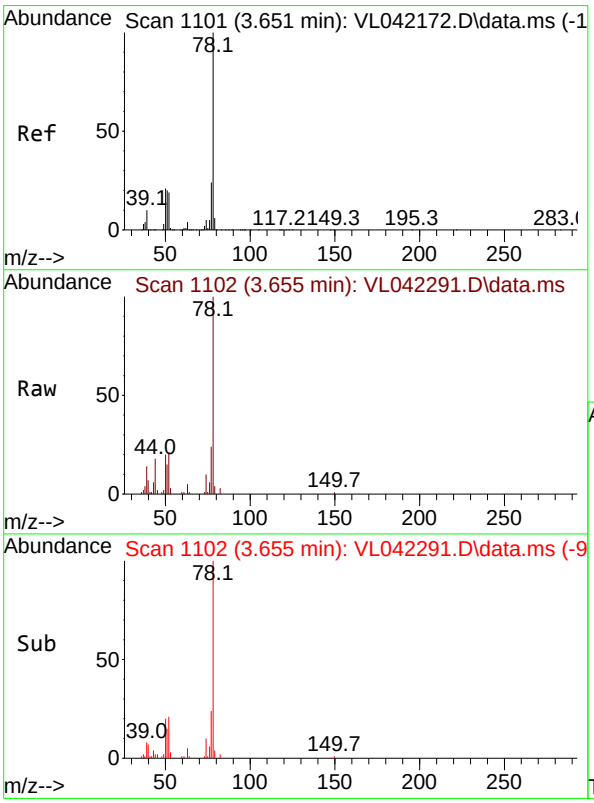

#35
Carbon Tetrachloride
Concen: 0.066 ppbv
RT: 3.755 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL042291.D
Acq: 09 Apr 2025 14:02

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025DUP

Tgt Ion:117 Resp: 2063

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 56.2 | 76.2 | 114.2# |
| 121 | 19.4 | 24.2 | 36.4# |

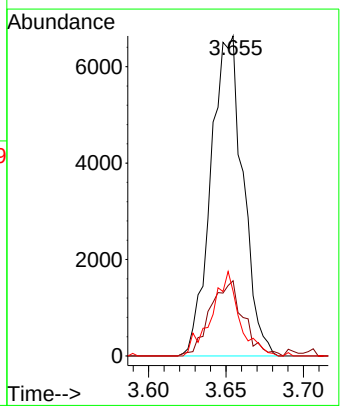


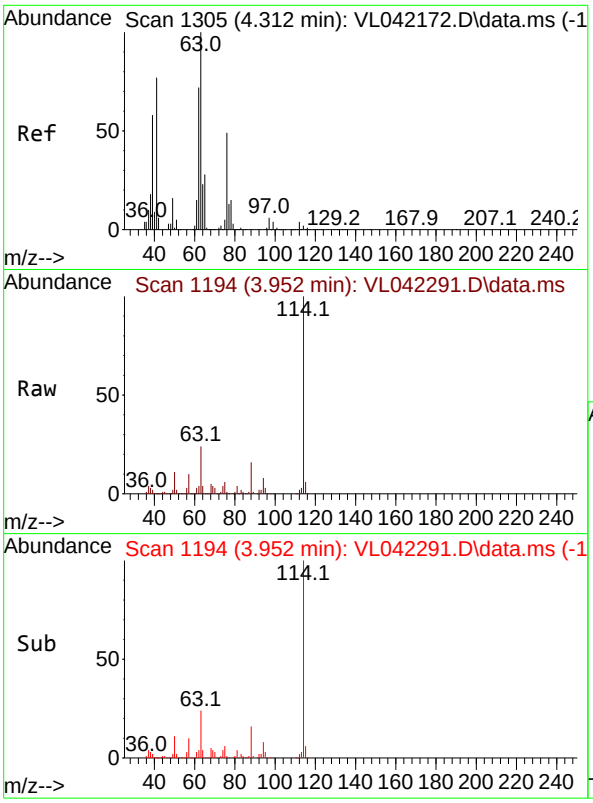




#36
Benzene
Concen: 0.244 ppbv
RT: 3.655 min Scan# 1102
Delta R.T. 0.003 min
Lab File: VL042291.D
Acq: 09 Apr 2025 14:02

Tgt Ion: 78 Resp: 9601

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.5 | 19.1 | 28.7 |
| 50 | 20.3 | 16.6 | 24.8 |



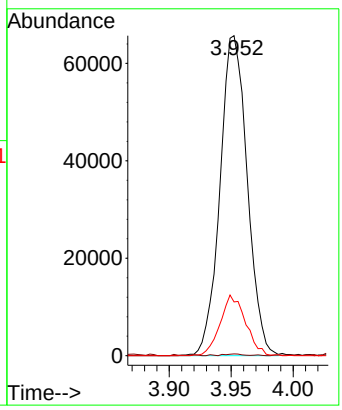


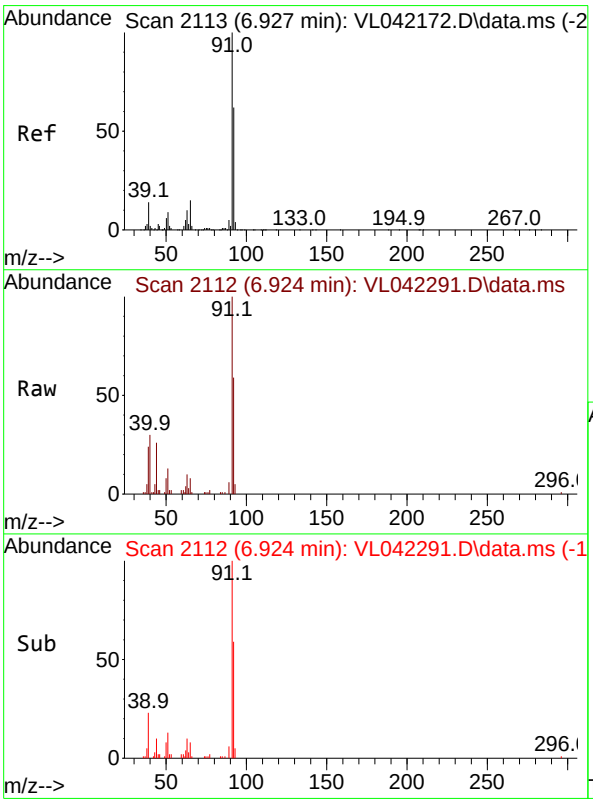

#39
1,2-Dichloropropane
Concen: 7.018 ppbv
RT: 3.952 min Scan# 11
Delta R.T. -0.359 min
Lab File: VL042291.D
Acq: 09 Apr 2025 14:02

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025DUP

Tgt Ion: 63 Resp: 100711

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 0.4 | 61.7 | 92.5# |
| 62 | 16.8 | 57.6 | 86.4# |

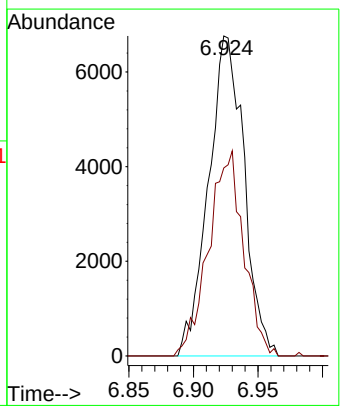


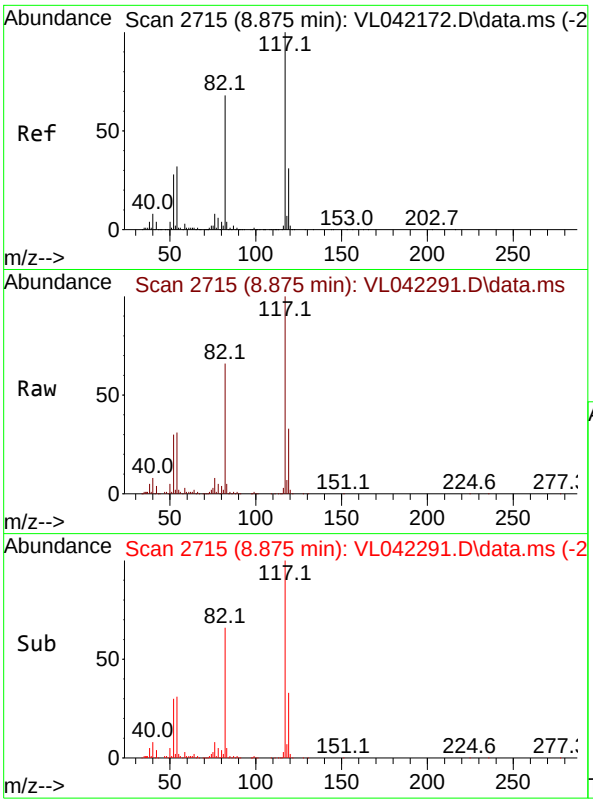




#53
Toluene
Concen: 0.277 ppbv
RT: 6.924 min Scan# 2112
Delta R.T. -0.003 min
Lab File: VL042291.D
Acq: 09 Apr 2025 14:02

Tgt Ion: 91 Resp: 12958

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 63.2 | 48.4 | 72.6 |



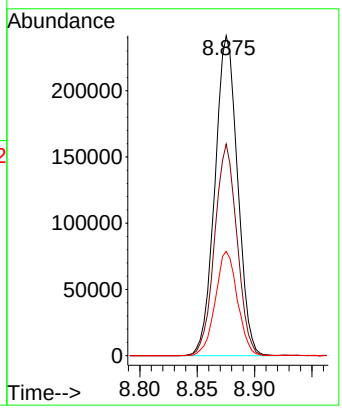


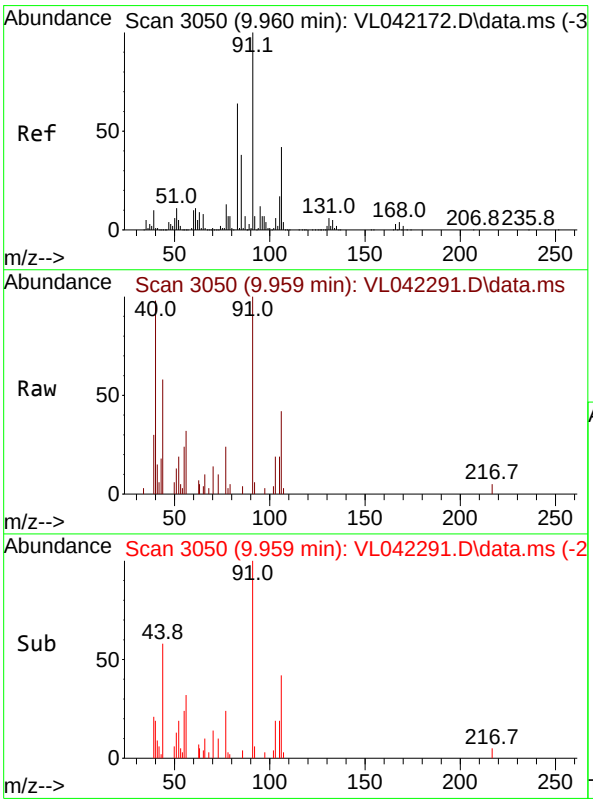

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042291.D
Acq: 09 Apr 2025 14:02

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025DUP

Tgt Ion:117 Resp: 332015

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 65.3 | 55.8 | 83.6 |
| 119 | 31.8 | 25.5 | 38.3 |

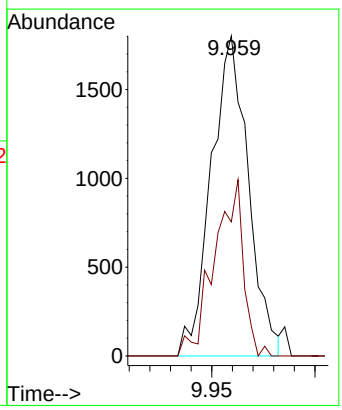


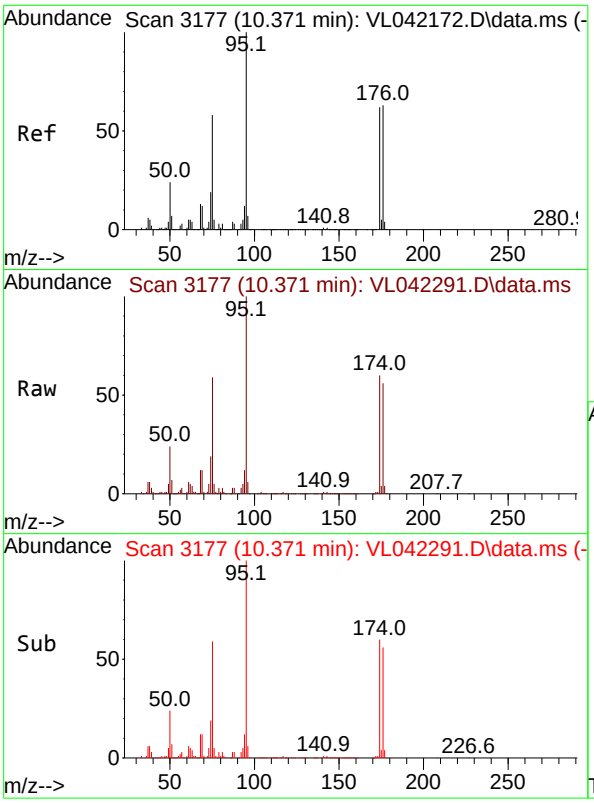




#60
o-Xylene
Concen: 0.048 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.000 min
Lab File: VL042291.D
Acq: 09 Apr 2025 14:02

Tgt Ion: 91 Resp: 2248

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 43.1 | 20.8 | 62.5 |



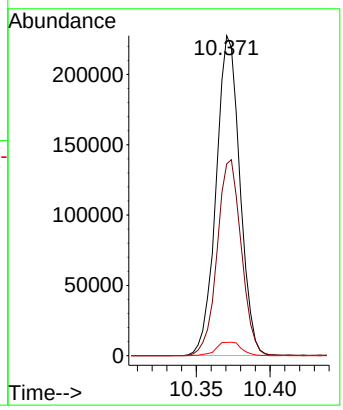


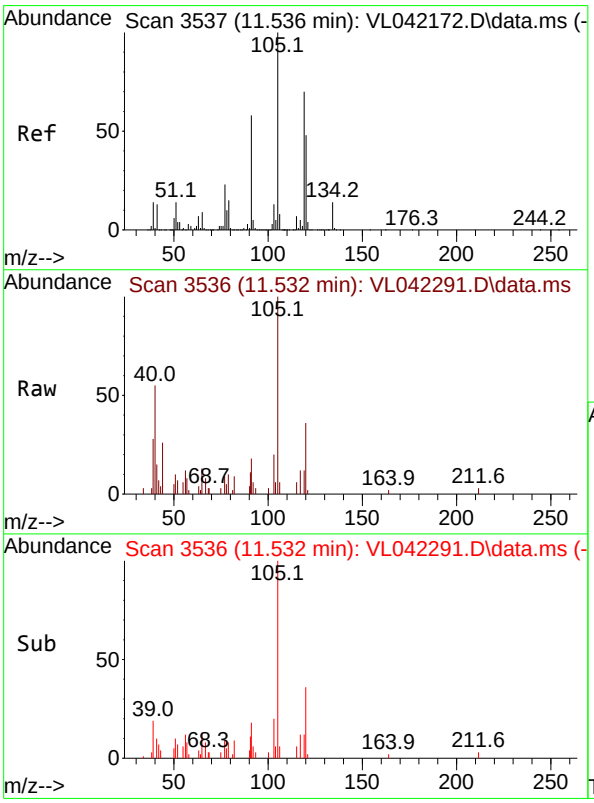

#68
1-Bromo-4-Fluorobenzene
Concen: 9.346 ppbv
RT: 10.371 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042291.D
Acq: 09 Apr 2025 14:02

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-DUP-1-3242025DUP

Tgt Ion: 95 Resp: 254829

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 62.4 | 50.6 | 76.0 |
| 175 | 4.5 | 3.8 | 5.6 |

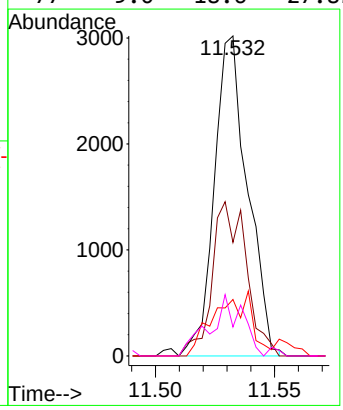



#74
1,2,4-Trimethylbenzene
Concen: 0.050 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.003 min
Lab File: VL042291.D
Acq: 09 Apr 2025 14:02

Tgt Ion:105 Resp: 2929

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 35.5 | 38.6 | 58.0# |
| 91 | 17.6 | 46.2 | 69.2# |
| 77 | 9.0 | 18.6 | 27.8# |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042292.D
Acq On : 09 Apr 2025 14:36
Operator : SY/MD
Sample : Q1665-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-1-3242025

Quant Time: Apr 10 01:44:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

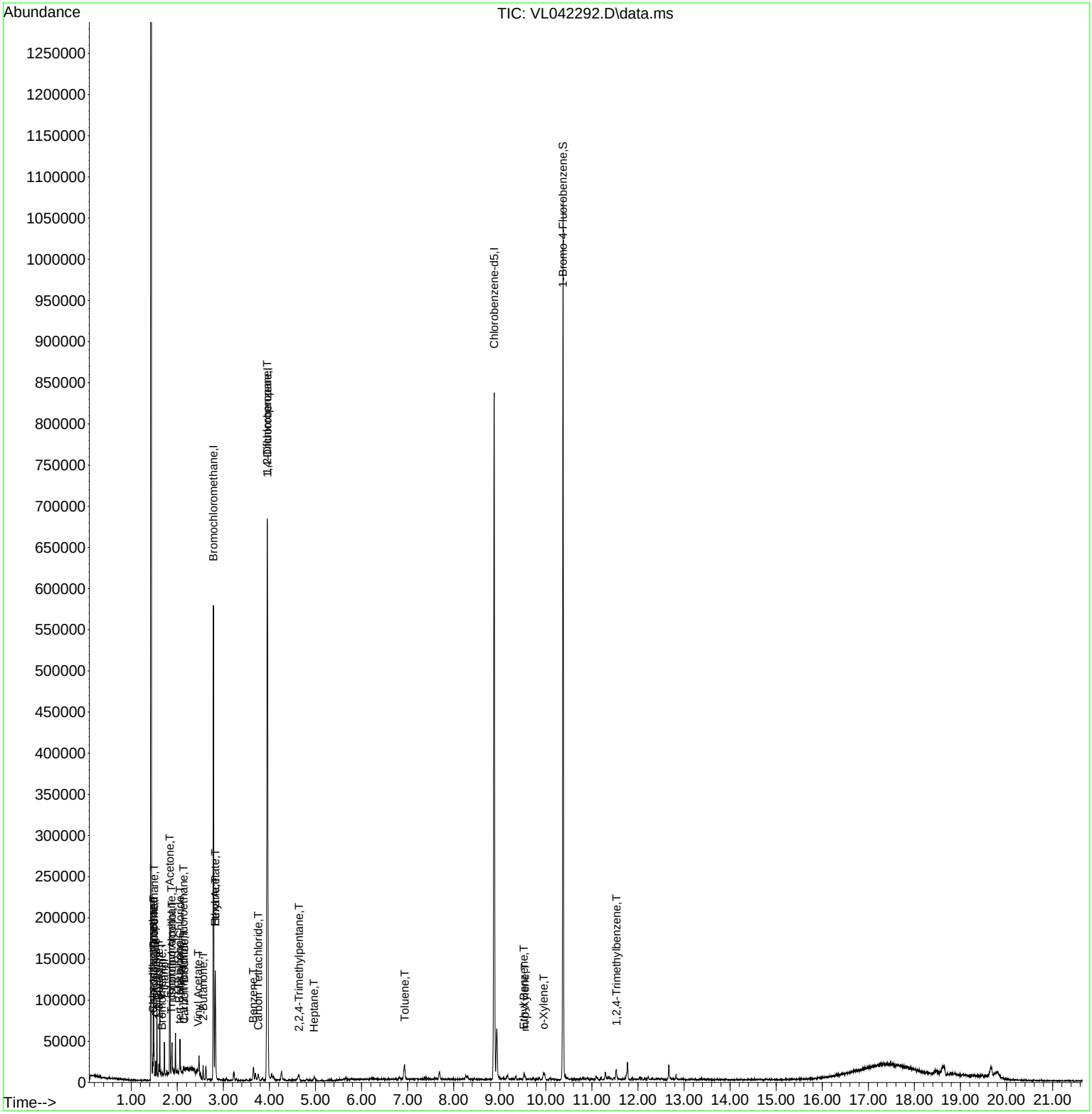
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) Bromochloromethane | 2.784 | 49 | 157856 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.956 | 114 | 383411 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.879 | 117 | 331322 | 10.000 | ppbv | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.374 | 95 | 250999 | 9.225 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 92.200% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.496 | 85 | 9272 | 0.398 | ppbv | | 99 |
| 3) Chlorodifluoromethane | 1.473 | 51 | 12952 | 0.544 | ppbv | # | 88 |
| 4) Chloromethane | 1.531 | 50 | 5277 | 0.554 | ppbv | | 92 |
| 6) Bromomethane | 1.664 | 94 | 192 | 0.044 | ppbv | # | 47 |
| 9) Propene | 1.486 | 41 | 8231 | 0.754 | ppbv | | 93 |
| 10) Heptane | 4.969 | 43 | 1272 | 0.044 | ppbv | # | 28 |
| 11) Trichlorofluoromethane | 1.874 | 101 | 4773 | 0.210 | ppbv | | 100 |
| 12) 1,1,2-Trichlorotrifluo... | 2.137 | 101 | 1154 | 0.062 | ppbv | | 92 |
| 13) Ethanol | 1.719 | 45 | 13232 | 12.826 | ppbv | | 88 |
| 15) Acetone | 1.836 | 43 | 76719 | 3.475 | ppbv | | 91 |
| 16) 1,3-Butadiene | 1.599 | 39 | 1674 | 0.155 | ppbv | # | 68 |
| 17) tert-Butyl alcohol | 2.046 | 59 | 1518 | 0.055 | ppbv | # | 71 |
| 19) Isopropyl Alcohol | 1.884 | 45 | 14854 | 1.192 | ppbv | # | 1 |
| 20) Methylene Chloride | 2.059 | 84 | 5511 | 0.670 | ppbv | | 96 |
| 23) Vinyl Acetate | 2.454 | 43 | 1222 | 0.128 | ppbv | # | 74 |
| 25) Ethyl Acetate | 2.823 | 43 | 21094 | 0.368 | ppbv | # | 78 |
| 26) Hexane | 2.823 | 57 | 23758 | 1.073 | ppbv | # | 35 |
| 27) Carbon Disulfide | 2.150 | 76 | 1122 | 0.047 | ppbv | # | 51 |
| 34) 2-Butanone | 2.561 | 43 | 9840 | 0.354 | ppbv | | 99 |
| 35) Carbon Tetrachloride | 3.758 | 117 | 2688 | 0.090 | ppbv | | 89 |
| 36) Benzene | 3.651 | 78 | 9637 | 0.254 | ppbv | # | 85 |
| 39) 1,2-Dichloropropane | 3.952 | 63 | 102317 | 7.391 | ppbv | # | 22 |
| 44) 2,2,4-Trimethylpentane | 4.642 | 57 | 2764 | 0.043 | ppbv | # | 26 |
| 53) Toluene | 6.937 | 91 | 5021 | 0.111 | ppbv | # | 1 |
| 58) Ethyl Benzene | 9.523 | 91 | 2126 | 0.036 | ppbv | | 93 |
| 59) m/p-Xylene | 9.549 | 91 | 1569 | 0.033 | ppbv | # | 31 |
| 60) o-Xylene | 9.956 | 91 | 1723 | 0.037 | ppbv | | 78 |
| 74) 1,2,4-Trimethylbenzene | 11.533 | 105 | 2383 | 0.040 | ppbv | # | 68 |

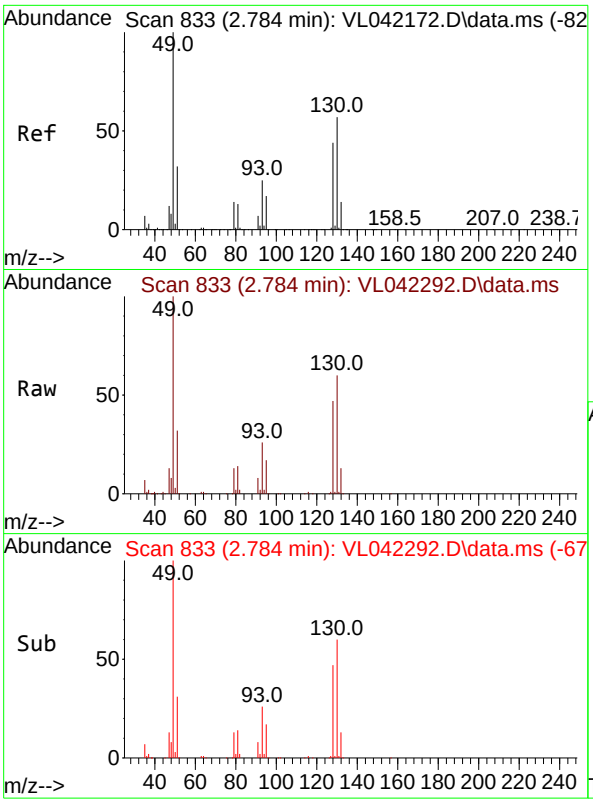
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042292.D
Acq On : 09 Apr 2025 14:36
Operator : SY/MD
Sample : Q1665-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-1-3242025

Quant Time: Apr 10 01:44:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration



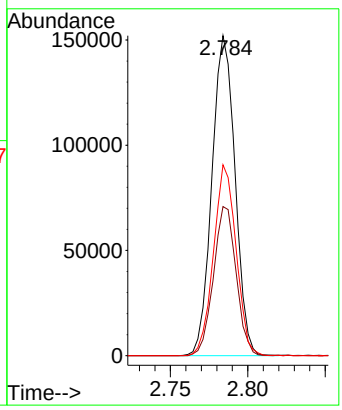


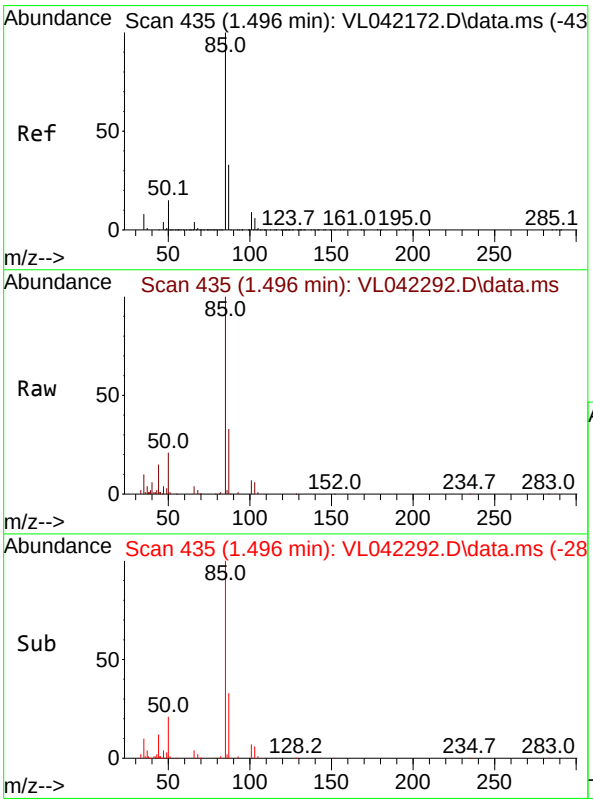

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-1-3242025

Tgt Ion: 49 Resp: 157856

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 45.7 | 22.9 | 68.5 |
| 130 | 58.3 | 28.8 | 86.4 |

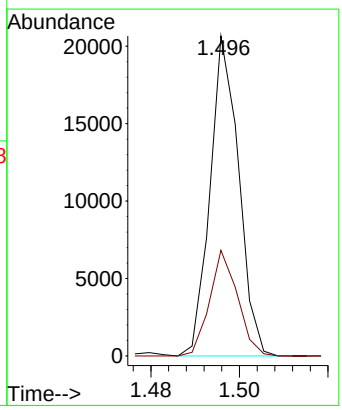


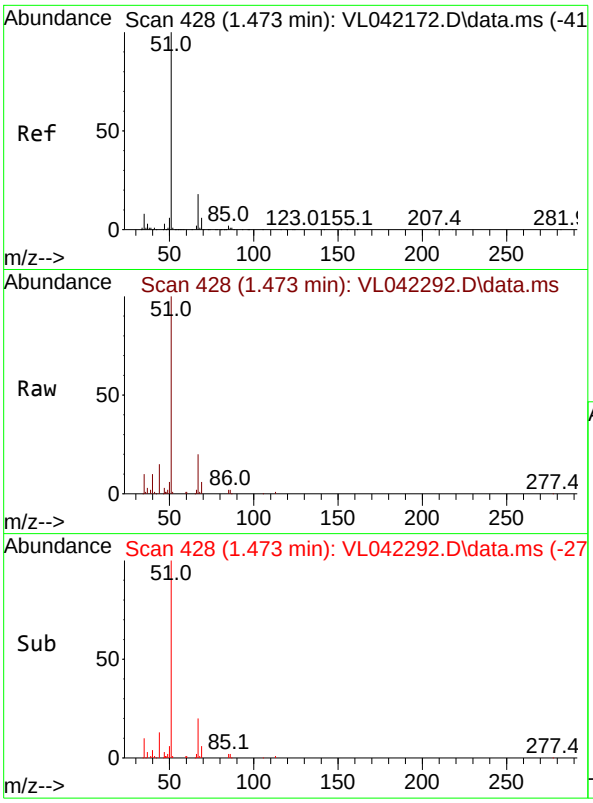




#2
Dichlorodifluoromethane
Concen: 0.398 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.000 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

Tgt Ion: 85 Resp: 9272

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.0 | 26.1 | 39.1 |



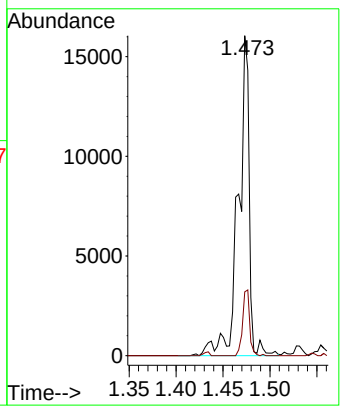


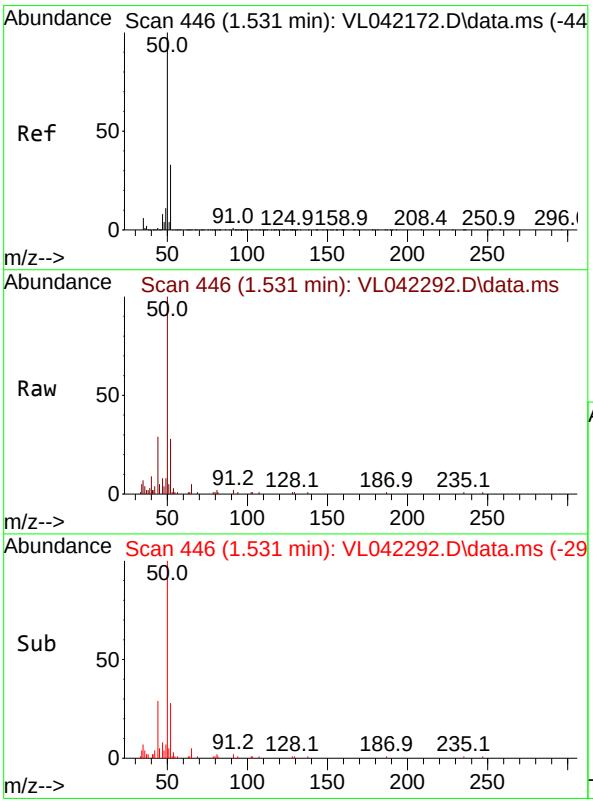

#3
Chlorodifluoromethane
Concen: 0.544 ppbv
RT: 1.473 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-1-3242025

Tgt Ion: 51 Resp: 12952

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 13.3 | 15.0 | 22.6# |

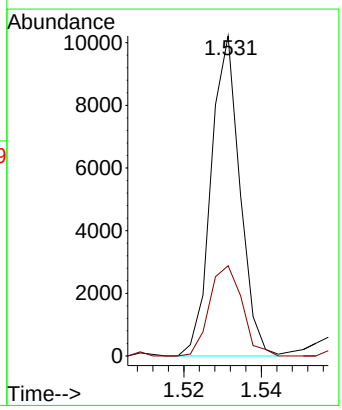


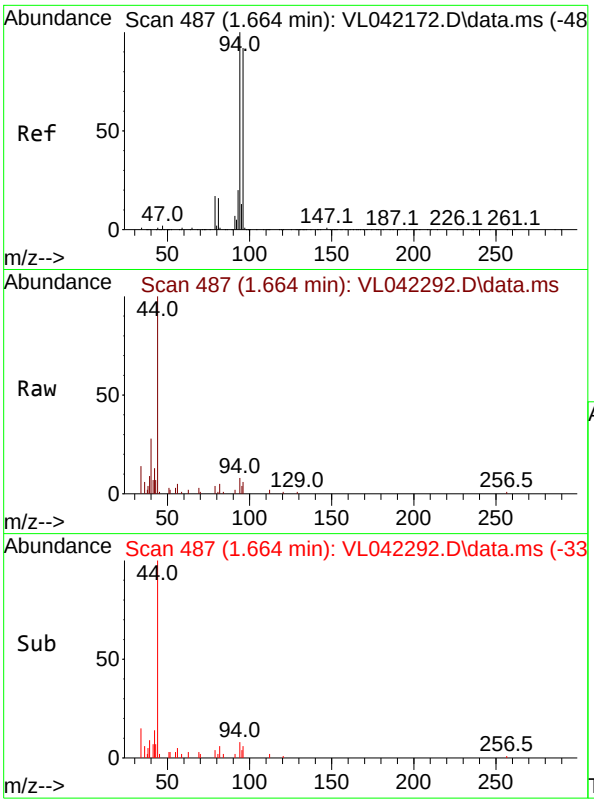




#4
Chloromethane
Concen: 0.554 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

Tgt Ion: 50 Resp: 5277

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 28.2 | 26.1 | 39.1 |



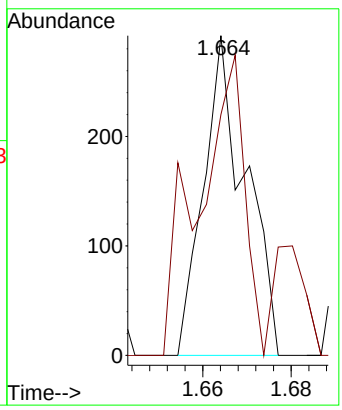


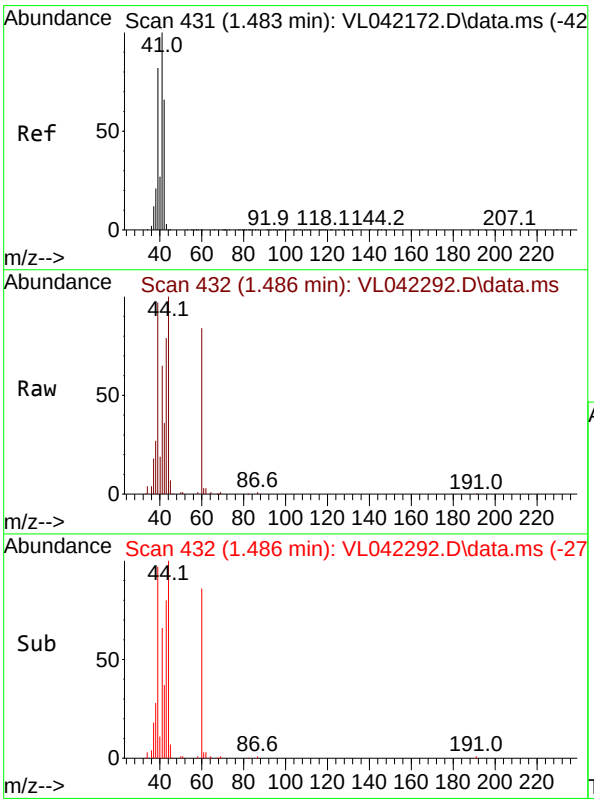

#6
Bromomethane
Concen: 0.044 ppbv
RT: 1.664 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-1-3242025

Tgt Ion: 94 Resp: 192

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 41.4 | 73.1 | 109.7# |

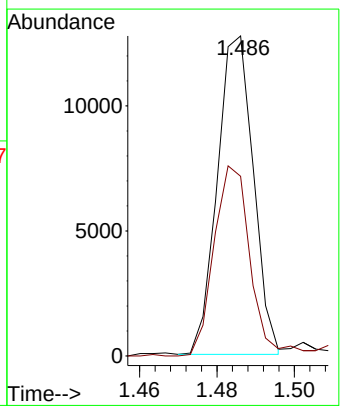


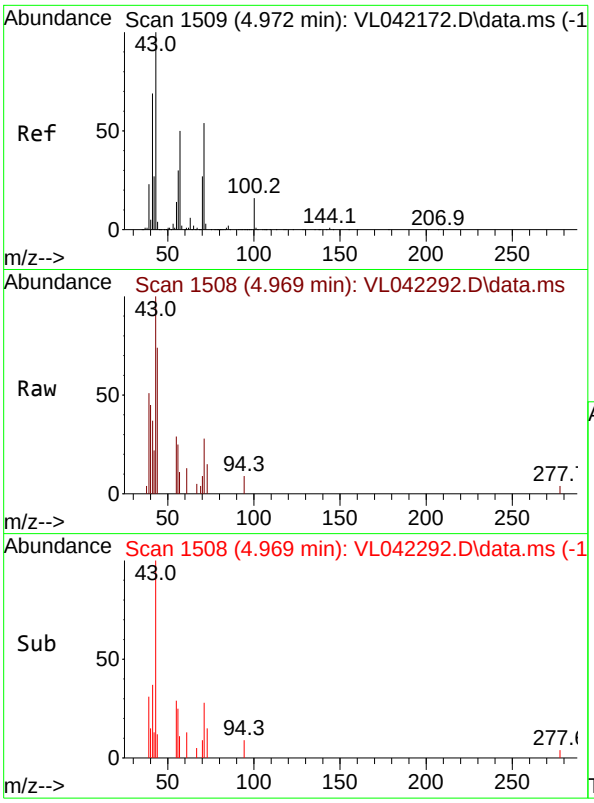




#9
Propene
Concen: 0.754 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

Tgt Ion: 41 Resp: 8231

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 63.3 | 55.4 | 83.2 |



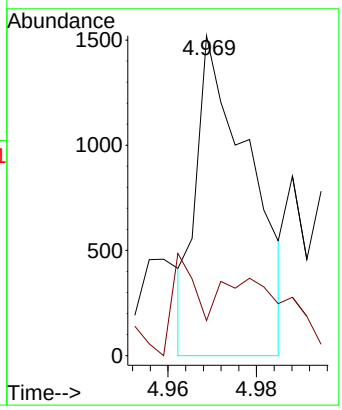


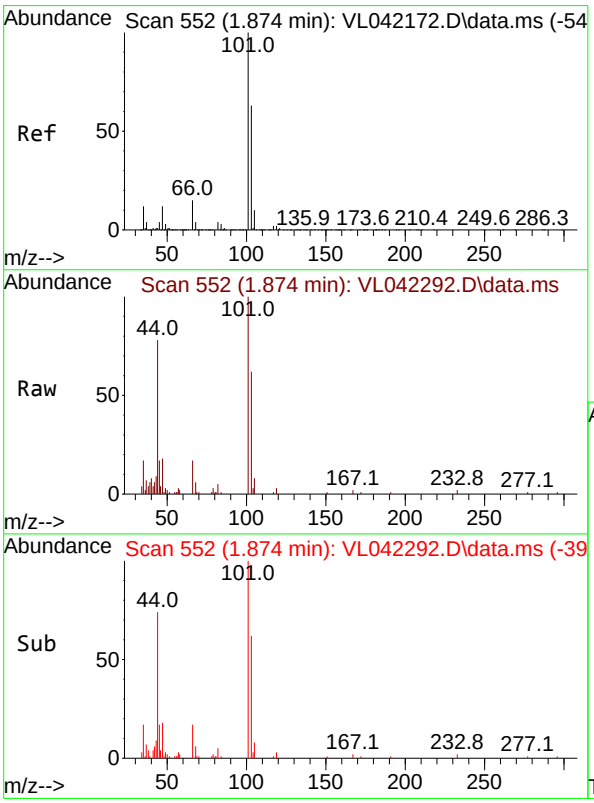

#10
Heptane
Concen: 0.044 ppbv
RT: 4.969 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-1-3242025

Tgt Ion: 43 Resp: 1272

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 0.0 | 39.4 | 59.2# |

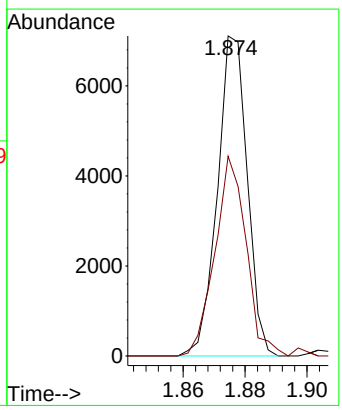


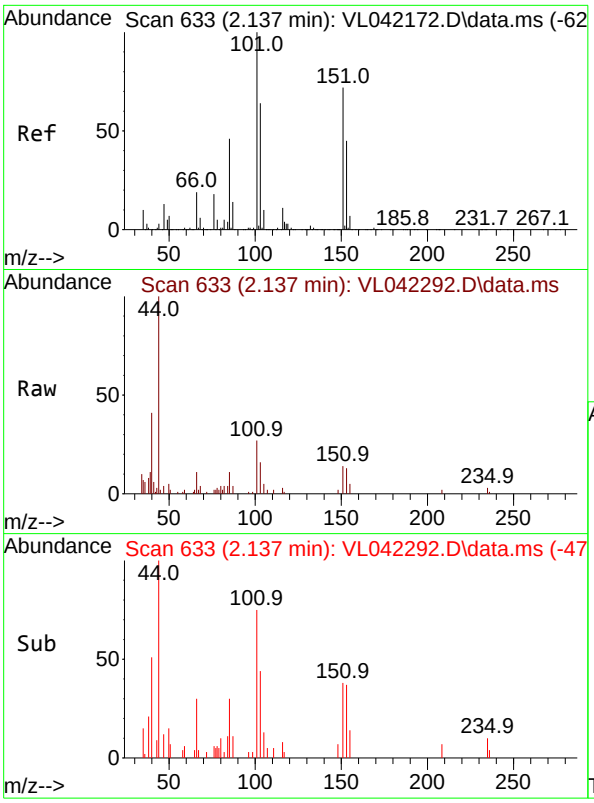




#11
Trichlorofluoromethane
Concen: 0.210 ppbv
RT: 1.874 min Scan# 552
Delta R.T. 0.000 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

Tgt Ion:101 Resp: 4773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 62.4 | 50.2 | 75.2 |



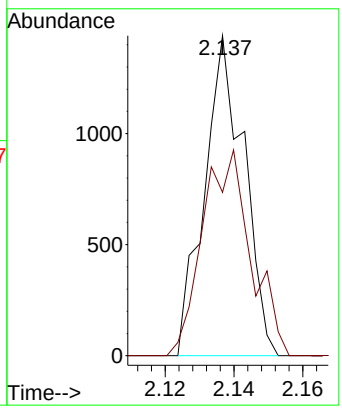


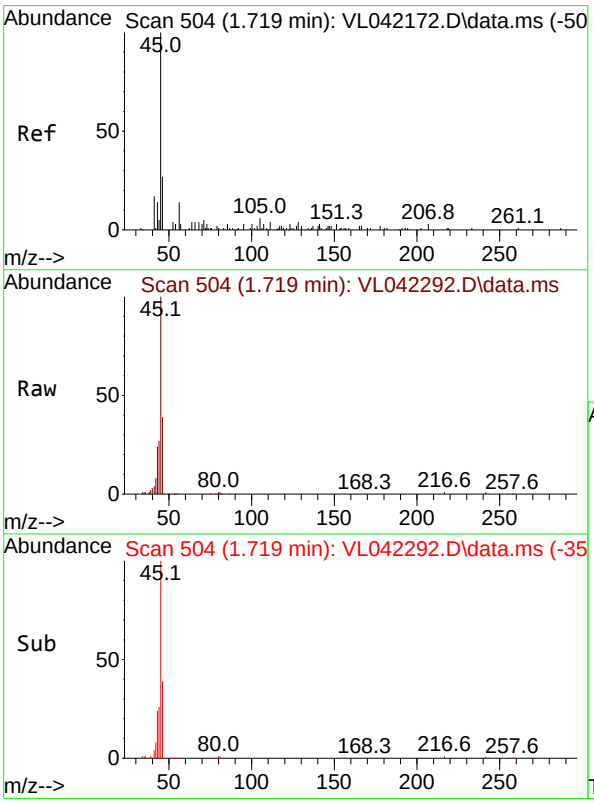

#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.062 ppbv
RT: 2.137 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-1-3242025

Tgt Ion:101 Resp: 1154

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 78.2 | 57.1 | 85.7 |

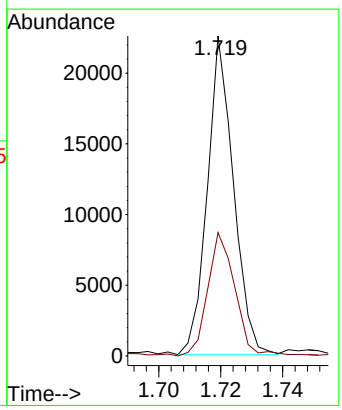


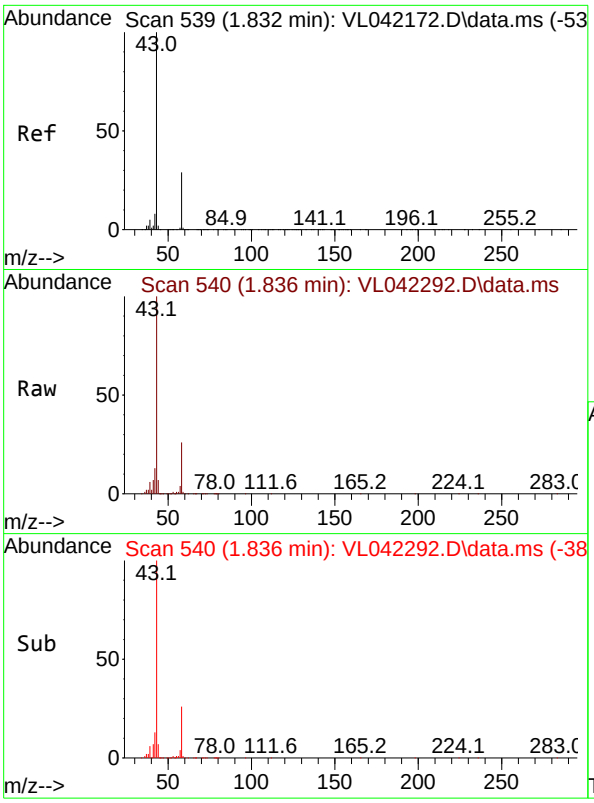




#13
Ethanol
Concen: 12.826 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

Tgt Ion: 45 Resp: 13232

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 42.5 | 20.2 | 80.8 |



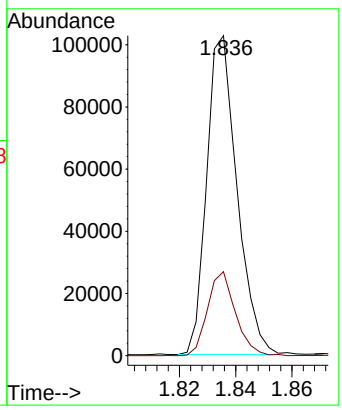


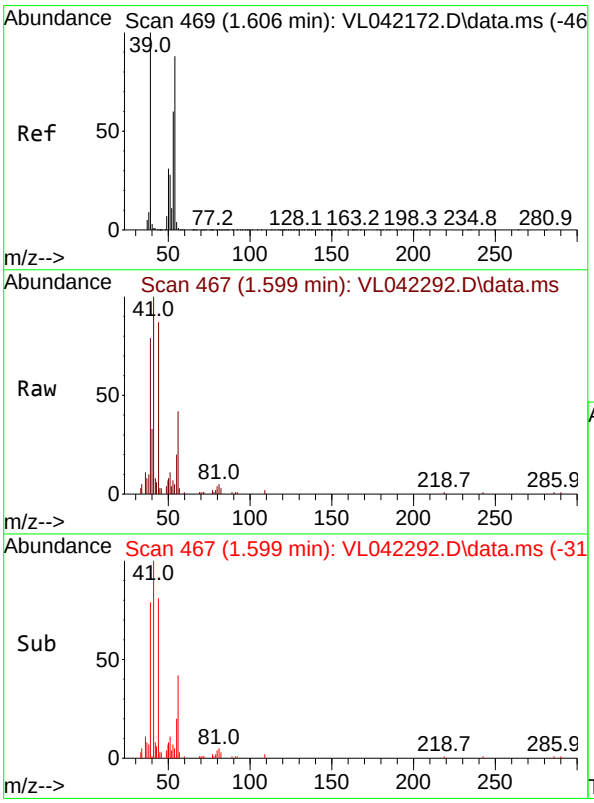

#15
Acetone
Concen: 3.475 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-1-3242025

Tgt Ion: 43 Resp: 76719

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 24.3 | 23.2 | 34.8 |

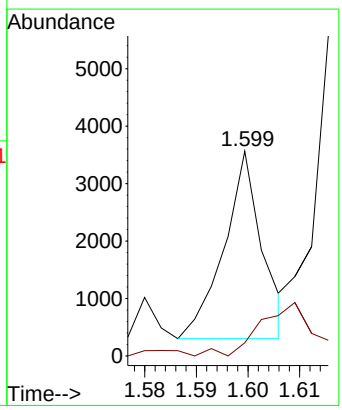


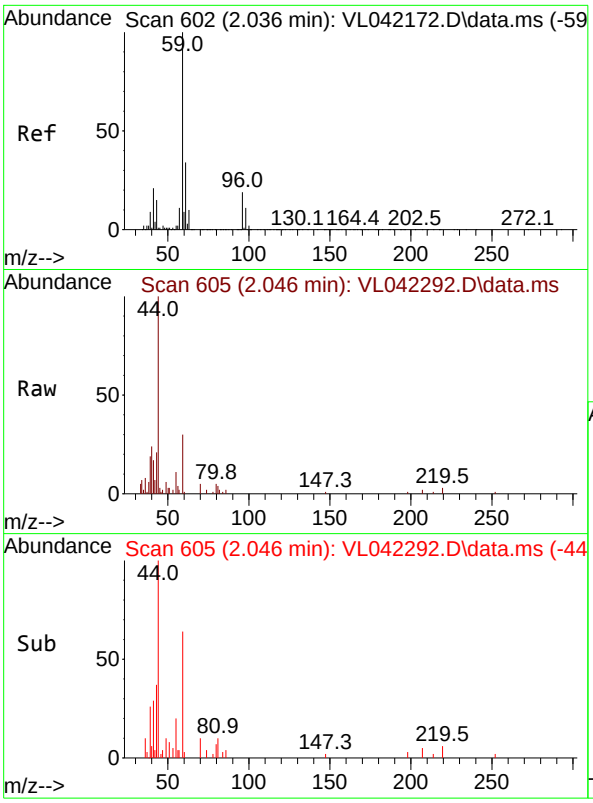




#16
1,3-Butadiene
Concen: 0.155 ppbv
RT: 1.599 min Scan# 467
Delta R.T. -0.006 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

Tgt Ion: 39 Resp: 1674

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 48.3 | 60.7 | 91.1# |



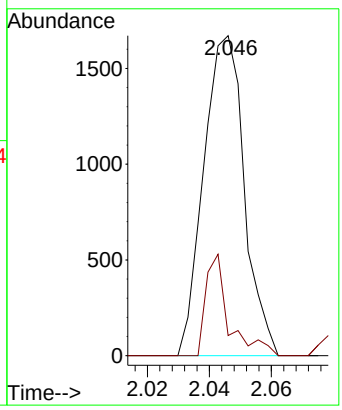


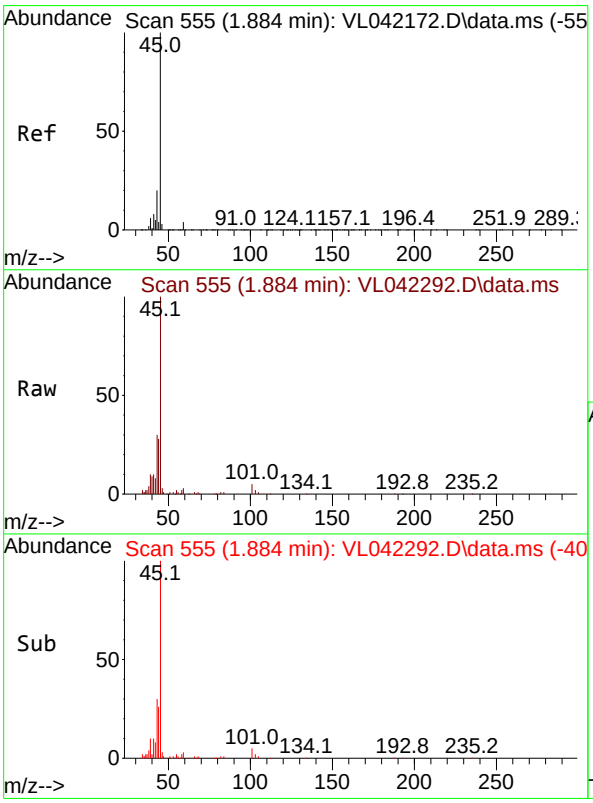

#17
tert-Butyl alcohol
Concen: 0.055 ppbv
RT: 2.046 min Scan# 6
Delta R.T. 0.010 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-1-3242025

Tgt Ion: 59 Resp: 1518

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 0.0 | 8.9 | 13.3# |

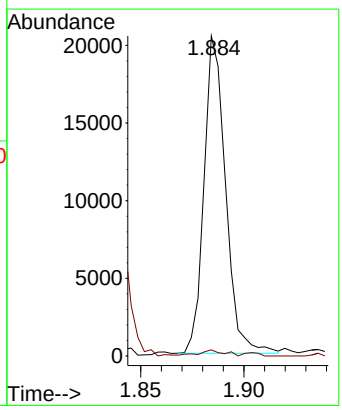


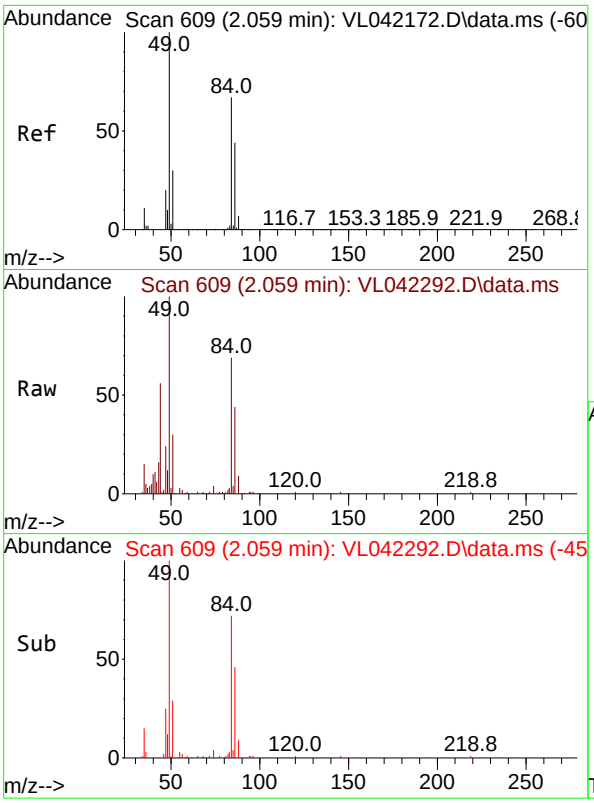




#19
Isopropyl Alcohol
Concen: 1.192 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.000 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

Tgt Ion: 45 Resp: 14854

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 125.4 | 36.9 | 55.3# |



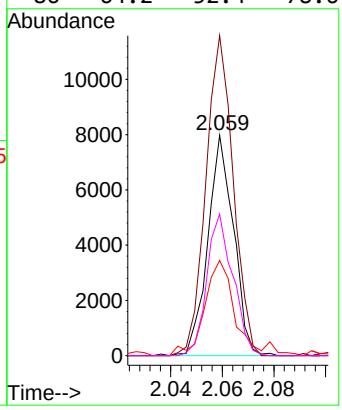


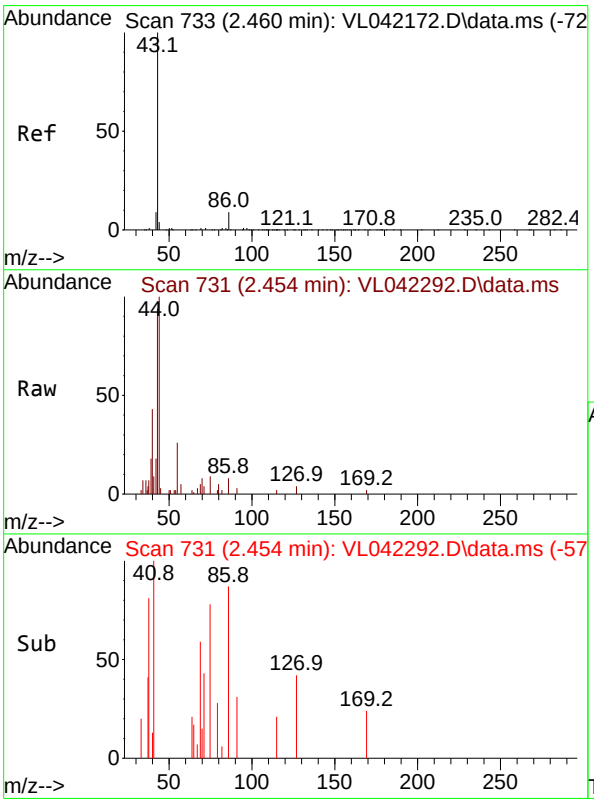

#20
Methylene Chloride
Concen: 0.670 ppbv
RT: 2.059 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-1-3242025

Tgt Ion: 84 Resp: 5511

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 145.1 | 120.2 | 180.4 |
| 51 | 42.4 | 37.4 | 56.0 |
| 86 | 64.2 | 52.4 | 78.6 |

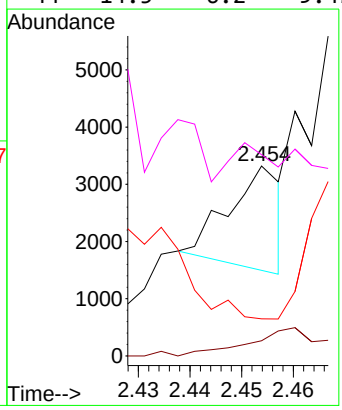


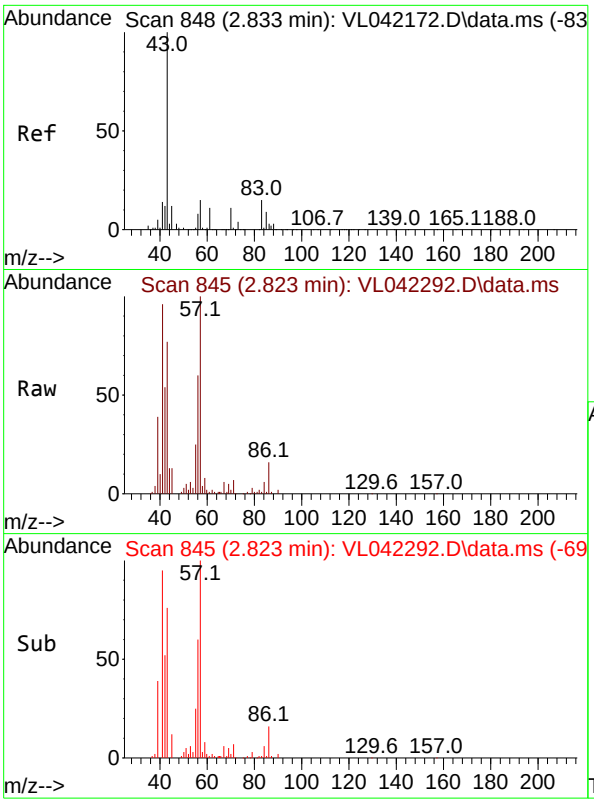




#23
Vinyl Acetate
Concen: 0.128 ppbv
RT: 2.454 min Scan# 731
Delta R.T. -0.006 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

Tgt Ion: 43 Resp: 1222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 17.8 | 5.5 | 8.3# |
| 42 | 0.2 | 8.6 | 13.0# |
| 44 | 14.5 | 6.2 | 9.4# |



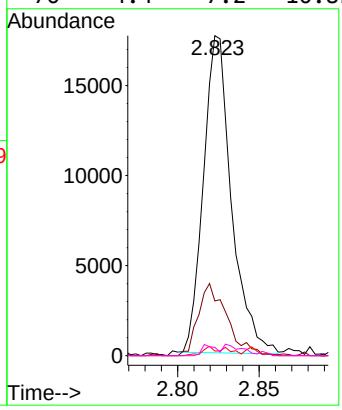


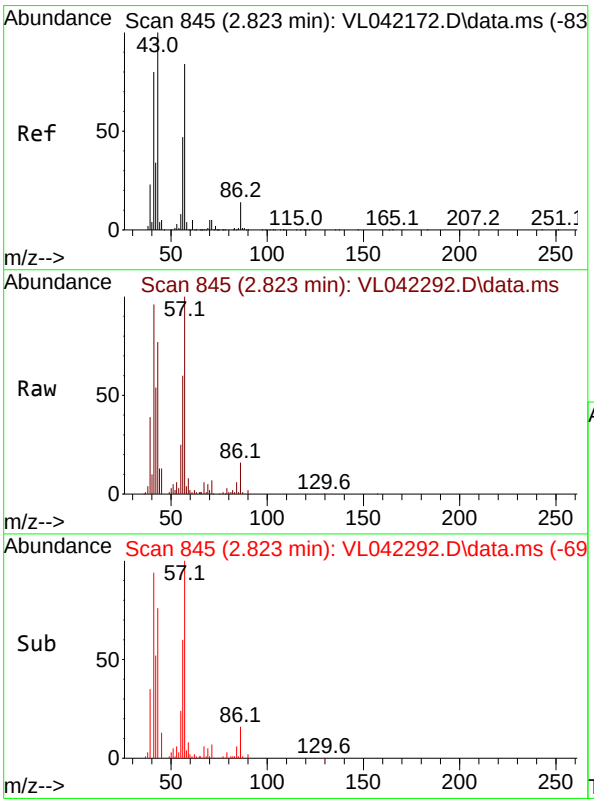

#25
Ethyl Acetate
Concen: 0.368 ppbv
RT: 2.823 min Scan# 84
Delta R.T. -0.010 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-1-3242025

Tgt Ion: 43 Resp: 21094

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 23.5 | 8.2 | 12.2# |
| 61 | 3.7 | 7.3 | 10.9# |
| 70 | 4.4 | 7.2 | 10.8# |

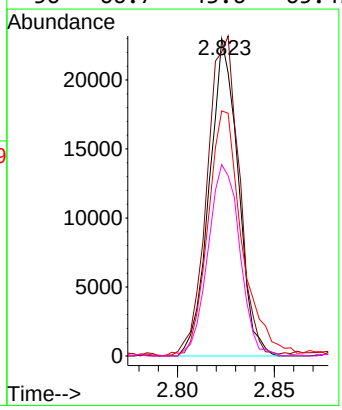


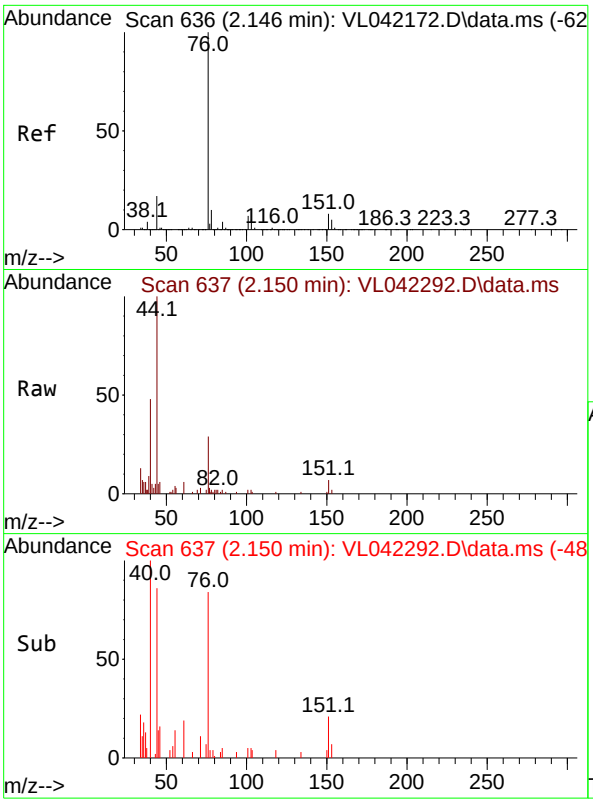




#26
Hexane
Concen: 1.073 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.000 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

Tgt Ion: 57 Resp: 23758

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 112.9 | 76.6 | 114.8 |
| 43 | 94.2 | 207.8 | 311.8# |
| 56 | 66.7 | 43.6 | 65.4# |



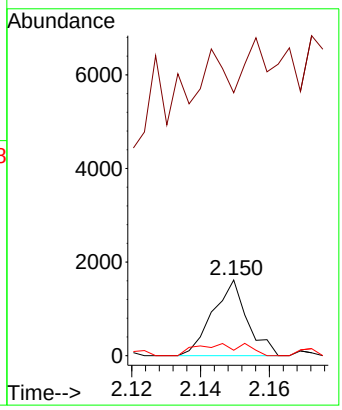


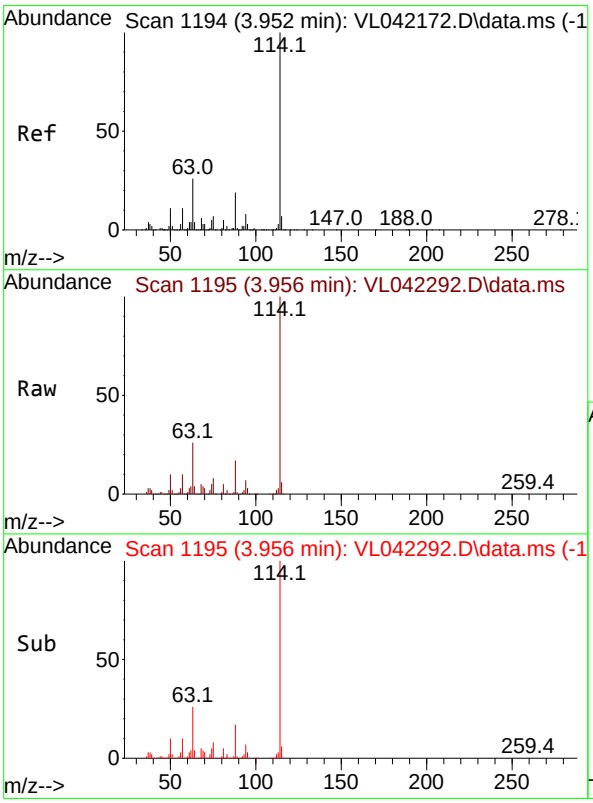

#27
Carbon Disulfide
Concen: 0.047 ppbv
RT: 2.150 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-1-3242025

Tgt Ion: 76 Resp: 1122

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 0.0 | 14.7 | 22.1# |
| 78 | 34.8 | 9.3 | 13.9# |

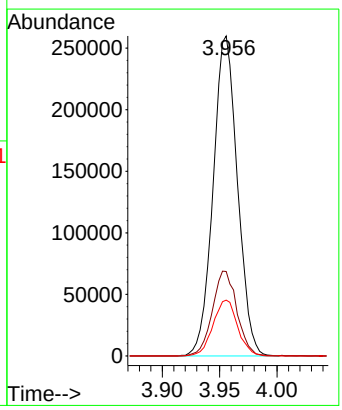


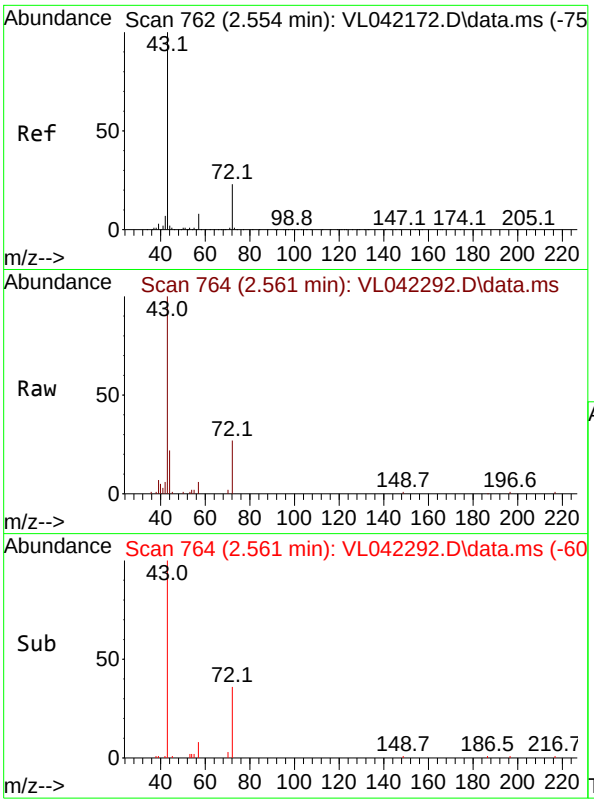




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 1195
Delta R.T. 0.003 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

Tgt Ion:114 Resp: 383411

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 26.7 | 20.7 | 31.1 |
| 88 | 17.7 | 15.0 | 22.4 |



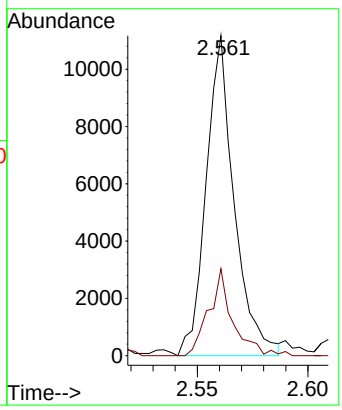


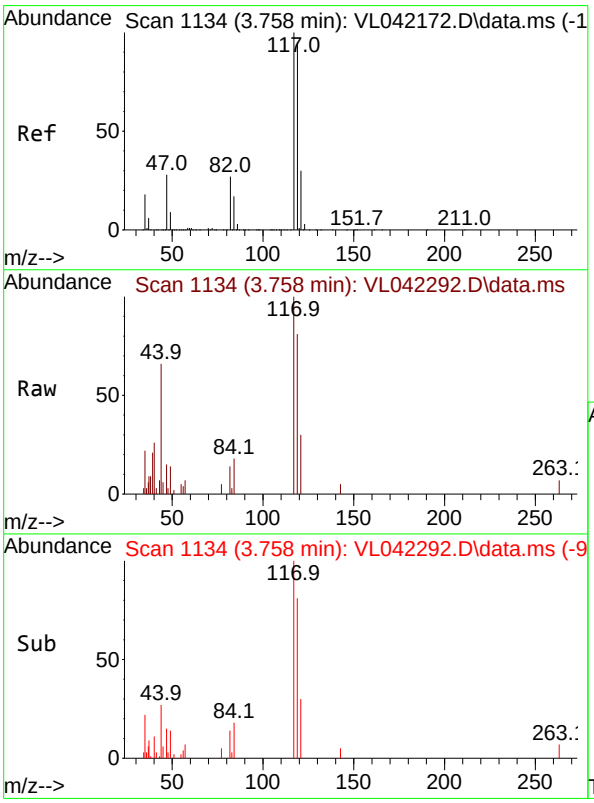

#34
2-Butanone
Concen: 0.354 ppbv
RT: 2.561 min Scan# 7
Delta R.T. 0.006 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-1-3242025

Tgt Ion: 43 Resp: 9840

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 23.2 | 18.2 | 27.2 |

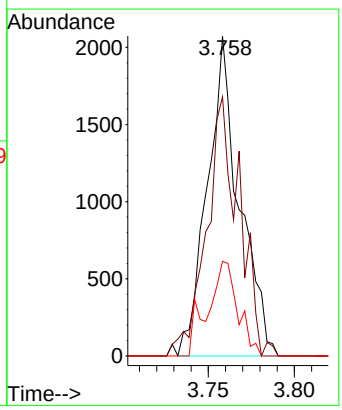


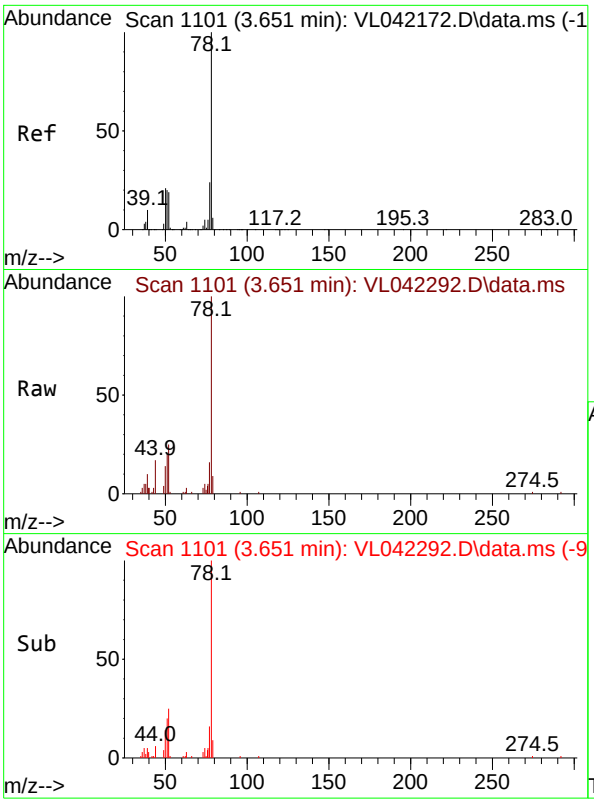




#35
Carbon Tetrachloride
Concen: 0.090 ppbv
RT: 3.758 min Scan# 1134
Delta R.T. 0.000 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

Tgt Ion:117 Resp: 2688

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 81.0 | 76.2 | 114.2 |
| 121 | 29.6 | 24.2 | 36.4 |



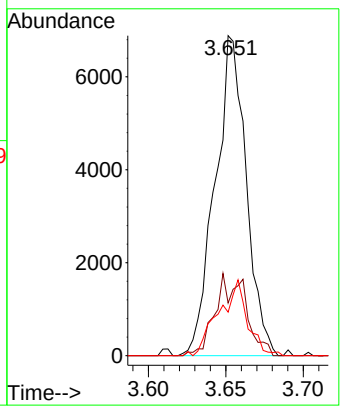


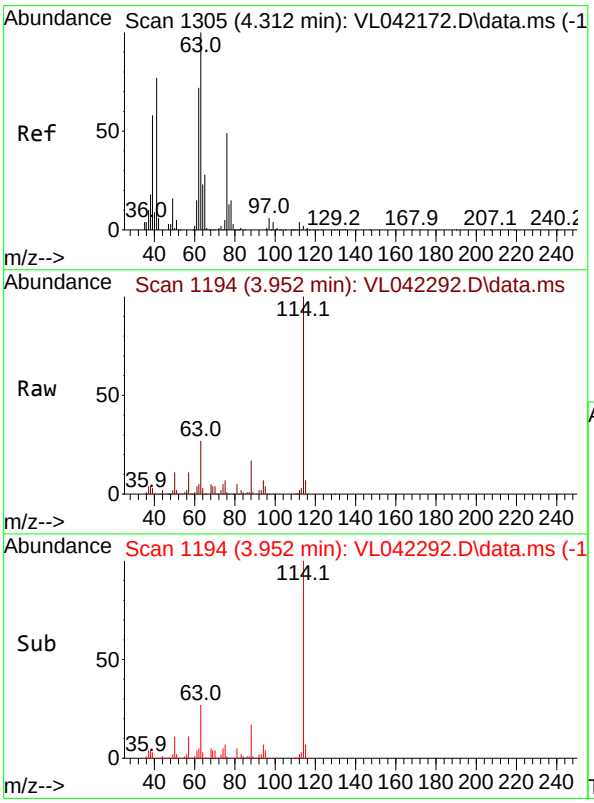

#36
Benzene
Concen: 0.254 ppbv
RT: 3.651 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-1-3242025

Tgt Ion: 78 Resp: 9637

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 16.4 | 19.1 | 28.7# |
| 50 | 13.6 | 16.6 | 24.8# |

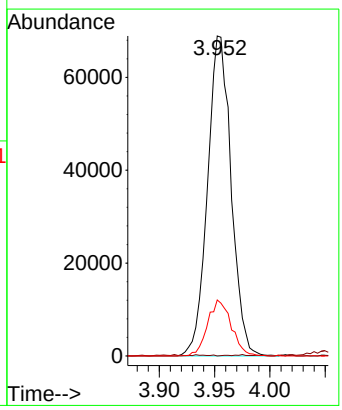


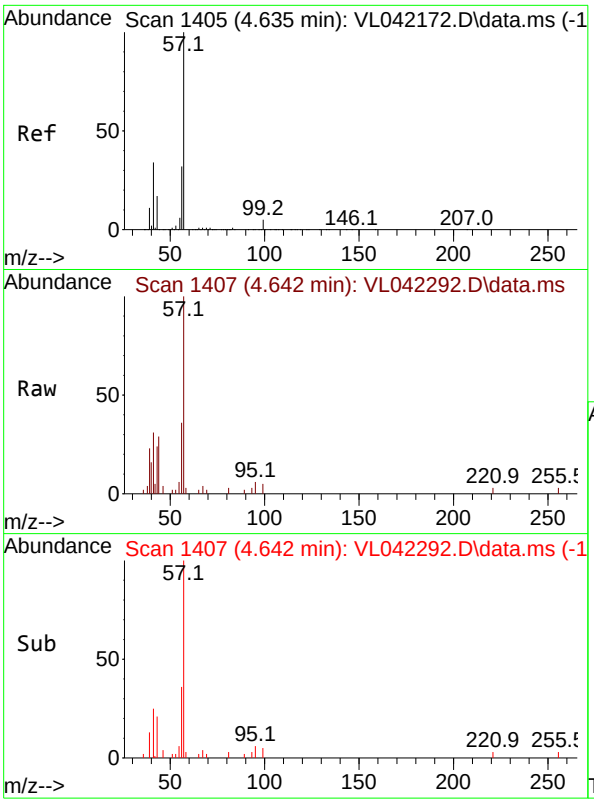




#39
1,2-Dichloropropane
Concen: 7.391 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.359 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

Tgt Ion: 63 Resp: 102317

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 0.0 | 61.7 | 92.5# |
| 62 | 17.5 | 57.6 | 86.4# |



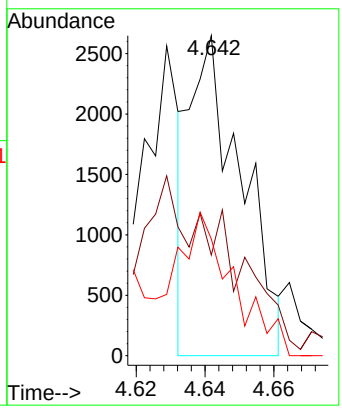


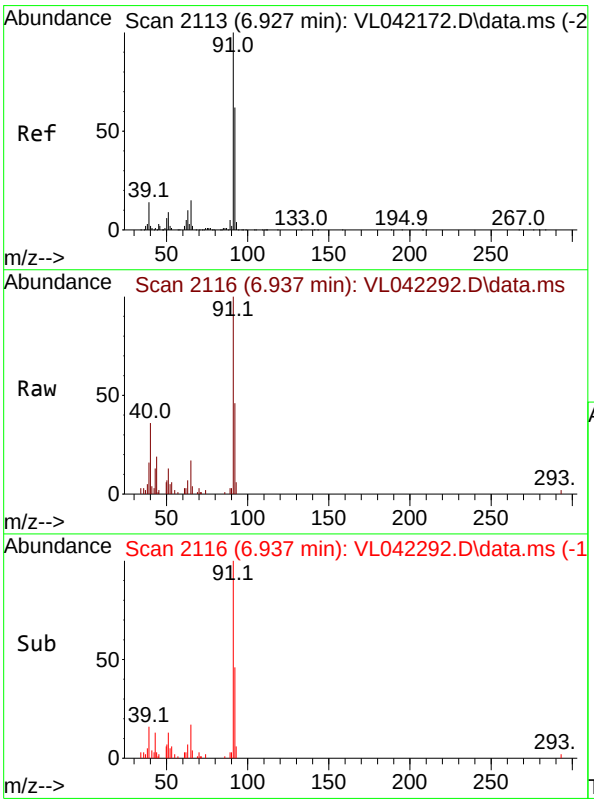

#44
2,2,4-Trimethylpentane
Concen: 0.043 ppbv
RT: 4.642 min Scan# 14
Delta R.T. 0.006 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-1-3242025

Tgt Ion: 57 Resp: 2764

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 0.0 | 26.8 | 40.2# |
| 56 | 82.6 | 25.6 | 38.4# |

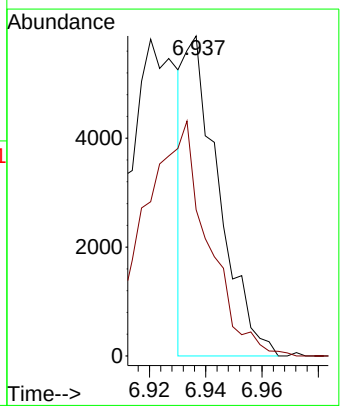


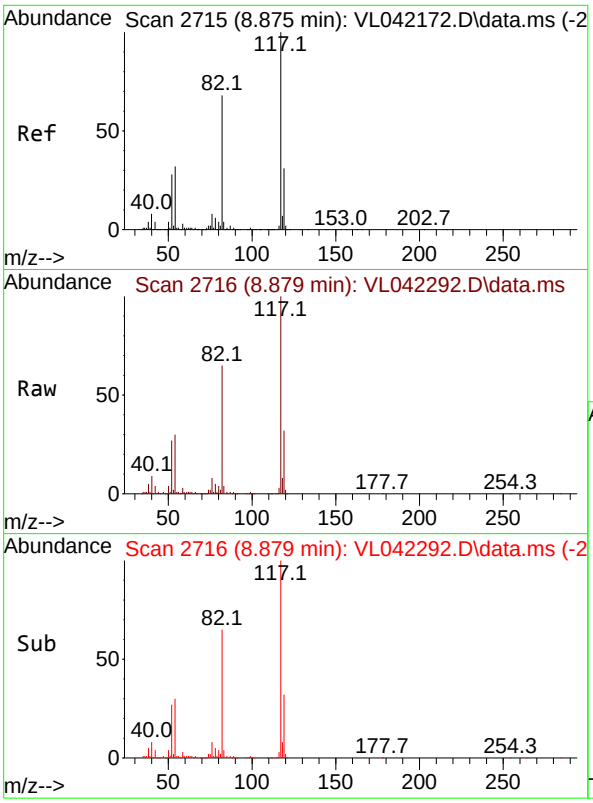




#53
Toluene
Concen: 0.111 ppbv
RT: 6.937 min Scan# 2116
Delta R.T. 0.010 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

Tgt Ion: 91 Resp: 5021

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 142.8 | 48.4 | 72.6# |



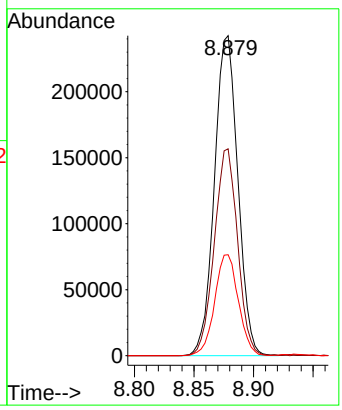


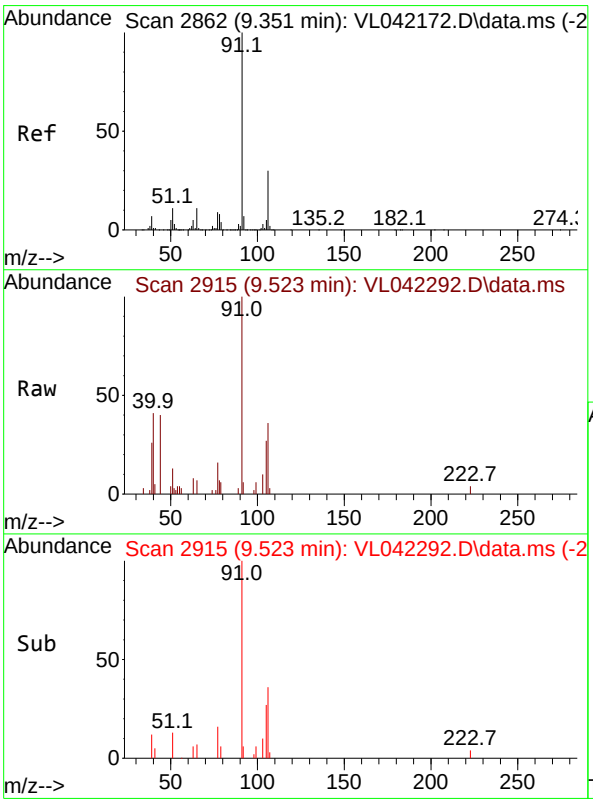

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-1-3242025

Tgt Ion:117 Resp: 331322

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 64.4 | 55.8 | 83.6 |
| 119 | 31.9 | 25.5 | 38.3 |

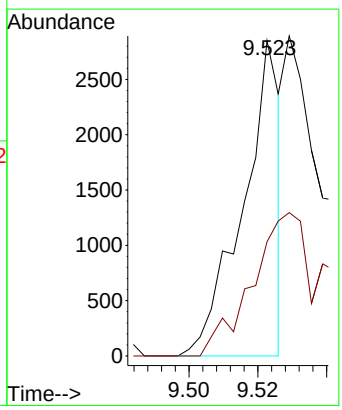


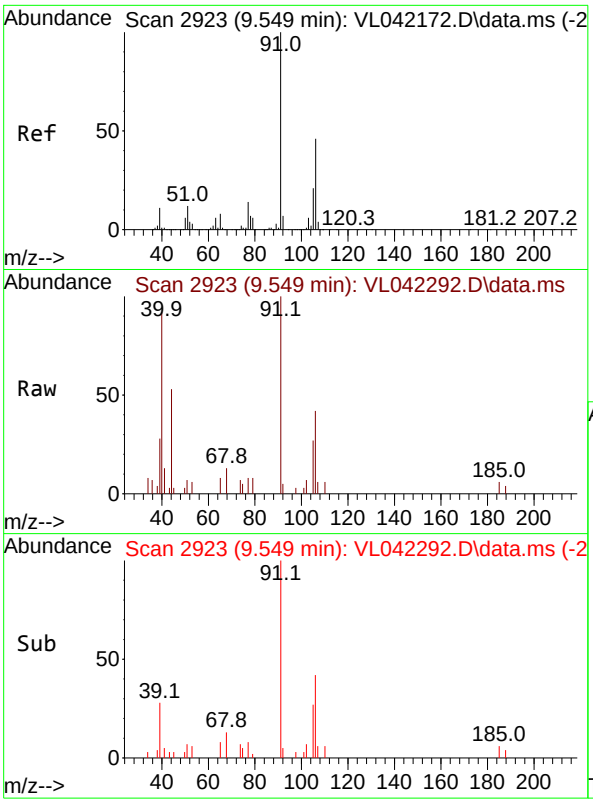




#58
Ethyl Benzene
Concen: 0.036 ppbv
RT: 9.523 min Scan# 2915
Delta R.T. 0.172 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

Tgt Ion: 91 Resp: 2126

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 34.3 | 24.2 | 36.2 |



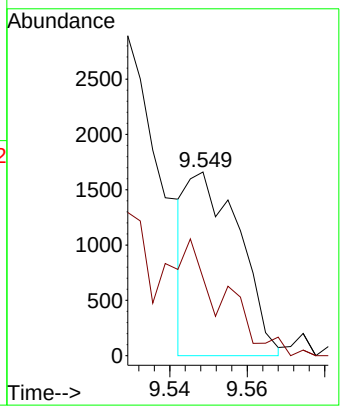


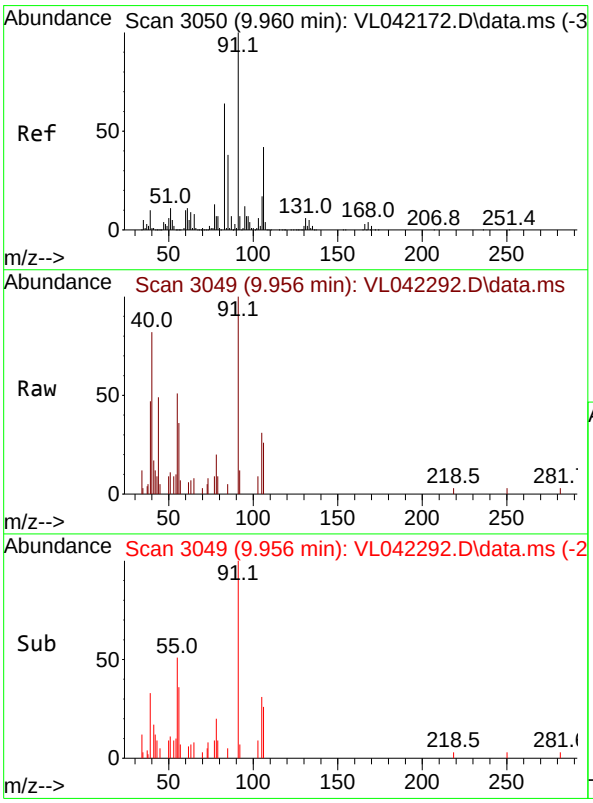

#59
m/p-Xylene
Concen: 0.033 ppbv
RT: 9.549 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-1-3242025

Tgt Ion: 91 Resp: 1569

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 0.0 | 36.4 | 54.6# |

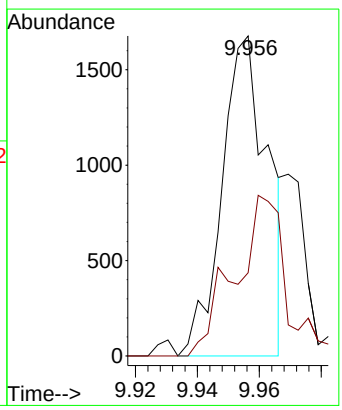


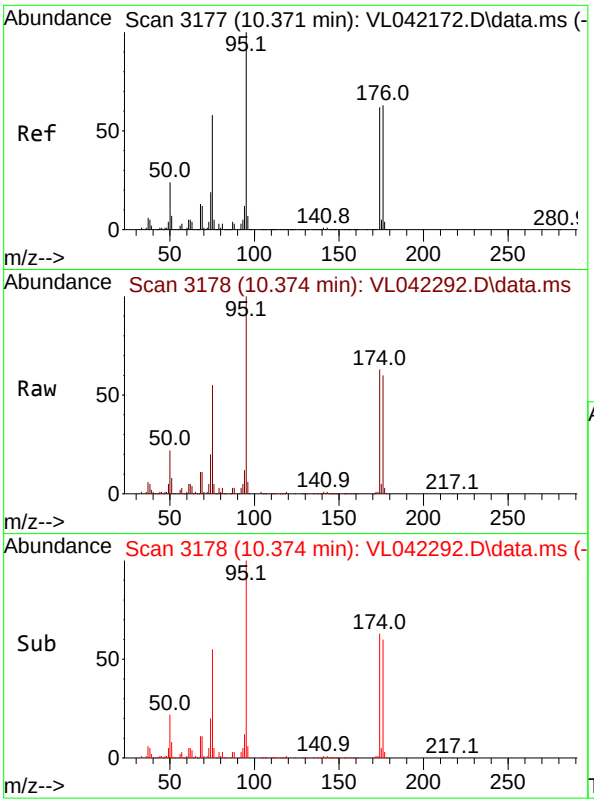




#60
o-Xylene
Concen: 0.037 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. -0.003 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

Tgt Ion: 91 Resp: 1723

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 55.3 | 20.8 | 62.5 |



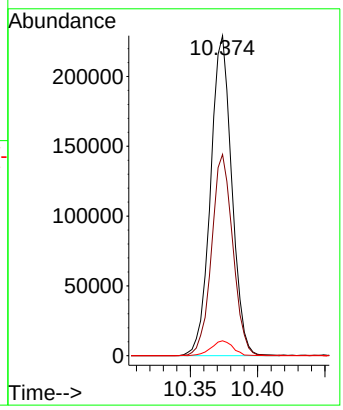


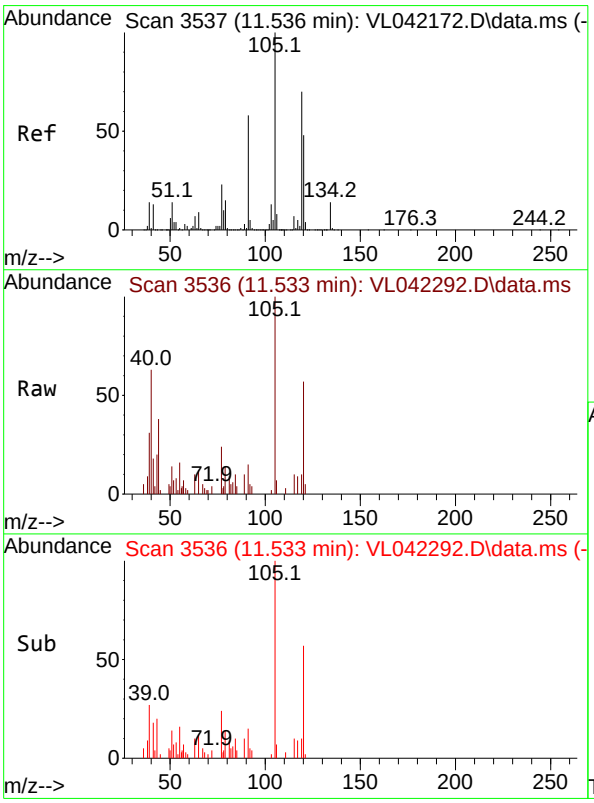

#68
1-Bromo-4-Fluorobenzene
Concen: 9.225 ppbv
RT: 10.374 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
AA-1-3242025

Tgt Ion: 95 Resp: 250999

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 63.1 | 50.6 | 76.0 |
| 175 | 4.8 | 3.8 | 5.6 |

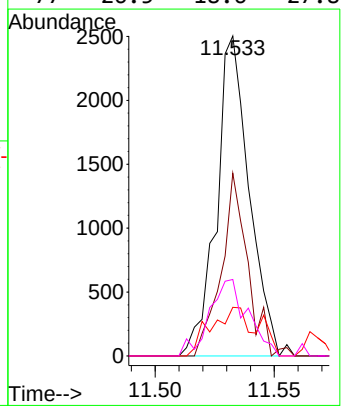



#74
1,2,4-Trimethylbenzene
Concen: 0.040 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. -0.003 min
Lab File: VL042292.D
Acq: 09 Apr 2025 14:36

Tgt Ion:105 Resp: 2383

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 57.1 | 38.6 | 58.0 |
| 91 | 15.2 | 46.2 | 69.2# |
| 77 | 26.5 | 18.6 | 27.8 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042293.D
Acq On : 09 Apr 2025 15:15
Operator : SY/MD
Sample : Q1665-06
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-1-3242025

Quant Time: Apr 10 01:45:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.784 | 49 | 162172 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.952 | 114 | 394727 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.875 | 117 | 338809 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.370 | 95 | 260496 | 9.362 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 93.600% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.496 | 85 | 8768 | 0.366 | ppbv | 100 |
| 3) Chlorodifluoromethane | 1.473 | 51 | 27592 | 1.128 | ppbv | 93 |
| 4) Chloromethane | 1.531 | 50 | 5713 | 0.584 | ppbv | 94 |
| 6) Bromomethane | 1.667 | 94 | 191 | 0.043 | ppbv | 83 |
| 7) Chloroethane | 1.703 | 64 | 219 | 0.056 | ppbv # | 43 |
| 9) Propene | 1.884 | 41 | 28450 | 2.537 | ppbv | 96 |
| 10) Heptane | 4.975 | 43 | 1928 | 0.065 | ppbv # | 28 |
| 11) Trichlorofluoromethane | 1.874 | 101 | 5120 | 0.220 | ppbv | 94 |
| 12) 1,1,2-Trichlorotrifluo... | 2.140 | 101 | 1343 | 0.070 | ppbv | 100 |
| 13) Ethanol | 1.719 | 45 | 40099 | 37.833 | ppbv | 81 |
| 15) Acetone | 1.832 | 43 | 192031 | 8.467 | ppbv | 94 |
| 16) 1,3-Butadiene | 1.599 | 39 | 2714 | 0.245 | ppbv # | 11 |
| 17) tert-Butyl alcohol | 1.884 | 59 | 10927 | 0.387 | ppbv | 95 |
| 19) Isopropyl Alcohol | 1.884 | 45 | 298845 | 23.353 | ppbv # | 32 |
| 20) Methylene Chloride | 2.059 | 84 | 9248 | 1.095 | ppbv | 97 |
| 21) Allyl Chloride | 2.072 | 41 | 495 | 0.031 | ppbv # | 23 |
| 23) Vinyl Acetate | 2.450 | 43 | 17521 | 1.785 | ppbv # | 85 |
| 25) Ethyl Acetate | 2.823 | 43 | 41224 | 0.700 | ppbv # | 83 |
| 26) Hexane | 2.823 | 57 | 46406 | 2.041 | ppbv # | 35 |
| 29) Chloroform | 2.848 | 83 | 1132 | 0.034 | ppbv | 86 |
| 34) 2-Butanone | 2.554 | 43 | 134955 | 4.715 | ppbv | 98 |
| 35) Carbon Tetrachloride | 3.758 | 117 | 1572 | 0.051 | ppbv # | 67 |
| 36) Benzene | 3.651 | 78 | 11524 | 0.294 | ppbv # | 90 |
| 39) 1,2-Dichloropropane | 3.955 | 63 | 99931 | 7.012 | ppbv # | 22 |
| 41) Tetrahydrofuran | 3.062 | 42 | 4453 | 0.270 | ppbv | 94 |
| 44) 2,2,4-Trimethylpentane | 4.629 | 57 | 4328 | 0.065 | ppbv # | 38 |
| 53) Toluene | 6.930 | 91 | 22070 | 0.476 | ppbv | 98 |
| 57) Chlorobenzene | 8.914 | 112 | 7743 | 0.241 | ppbv # | 83 |
| 58) Ethyl Benzene | 9.354 | 91 | 3481 | 0.058 | ppbv | 99 |
| 59) m/p-Xylene | 9.529 | 91 | 8935 | 0.186 | ppbv | 95 |
| 60) o-Xylene | 9.963 | 91 | 4584 | 0.095 | ppbv | 94 |
| 62) Isopropylbenzene | 10.804 | 105 | 143134 | 1.987 | ppbv # | 50 |
| 71) 2-Chlorotoluene | 10.853 | 91 | 21081 | 0.377 | ppbv # | 46 |
| 72) 4-Ethyltoluene | 11.092 | 105 | 3205 | 0.053 | ppbv # | 60 |
| 73) 1,3,5-Trimethylbenzene | 11.202 | 105 | 1783 | 0.034 | ppbv # | 75 |
| 74) 1,2,4-Trimethylbenzene | 11.536 | 105 | 5457 | 0.090 | ppbv # | 68 |

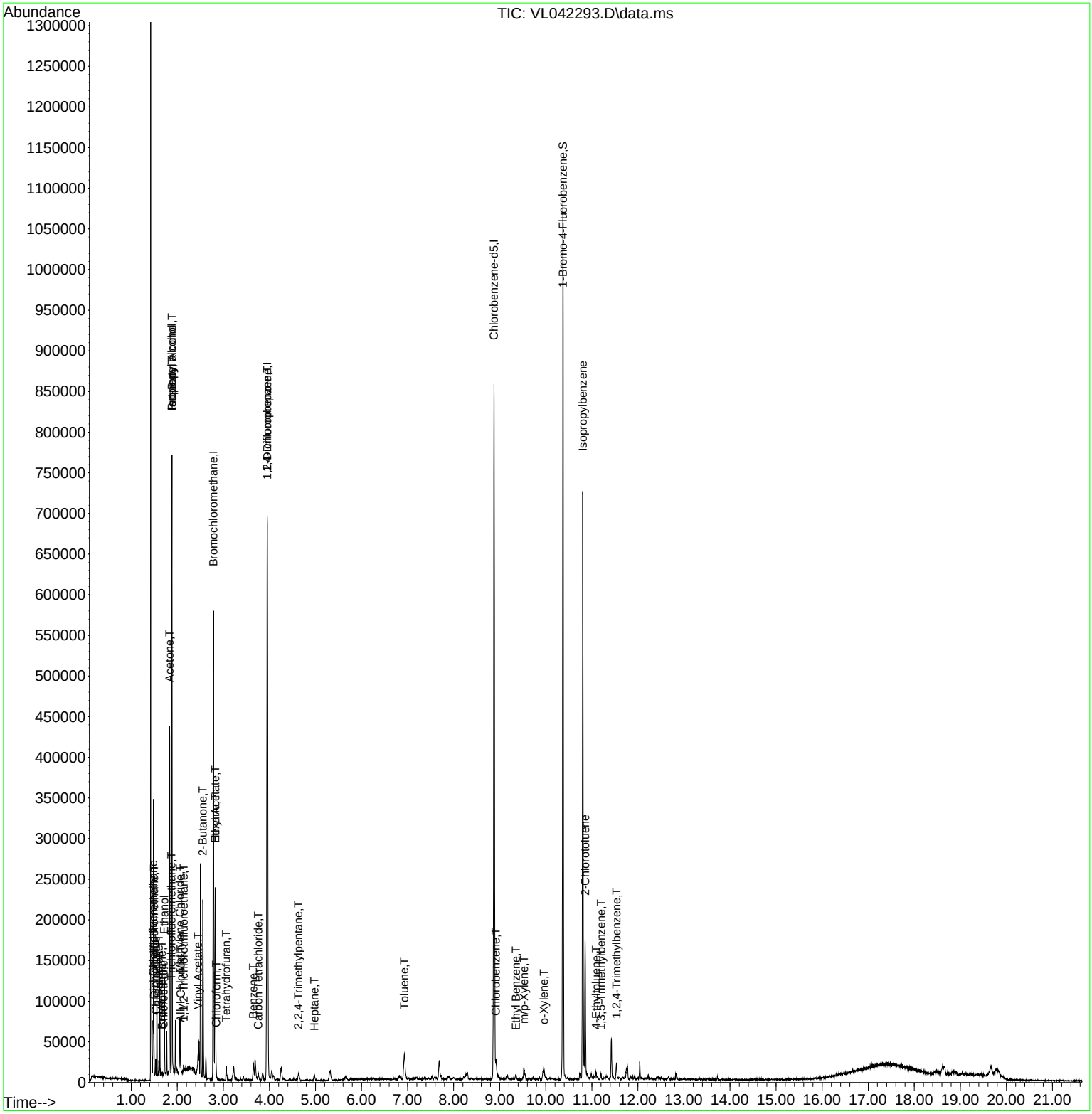
(#) = qualifier out of range (m) = manual integration (+) = signals summed

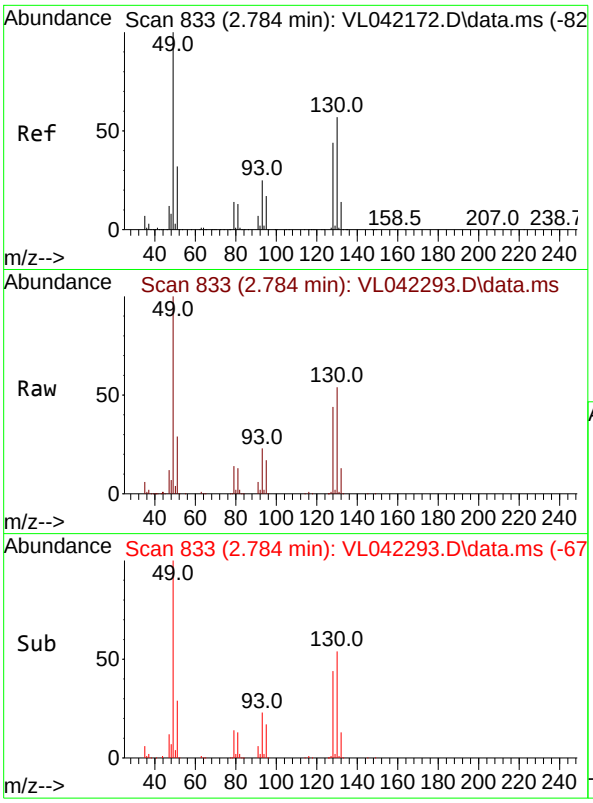
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042293.D
Acq On : 09 Apr 2025 15:15
Operator : SY/MD
Sample : Q1665-06
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-1-3242025

Quant Time: Apr 10 01:45:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration



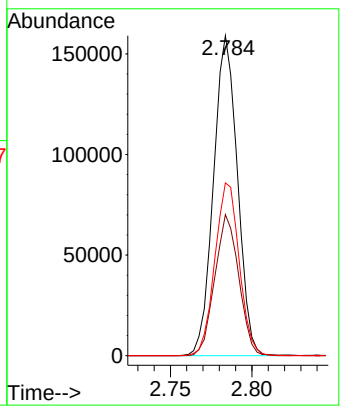


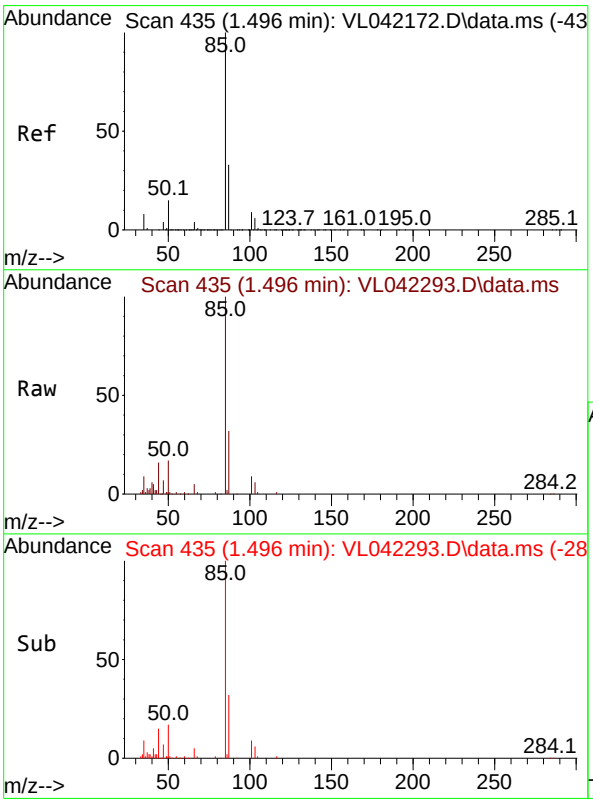

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-1-3242025

Tgt Ion: 49 Resp: 162172

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 44.1 | 22.9 | 68.5 |
| 130 | 55.0 | 28.8 | 86.4 |

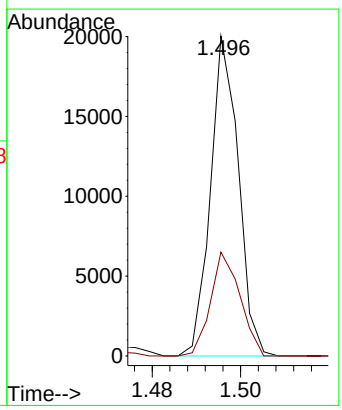


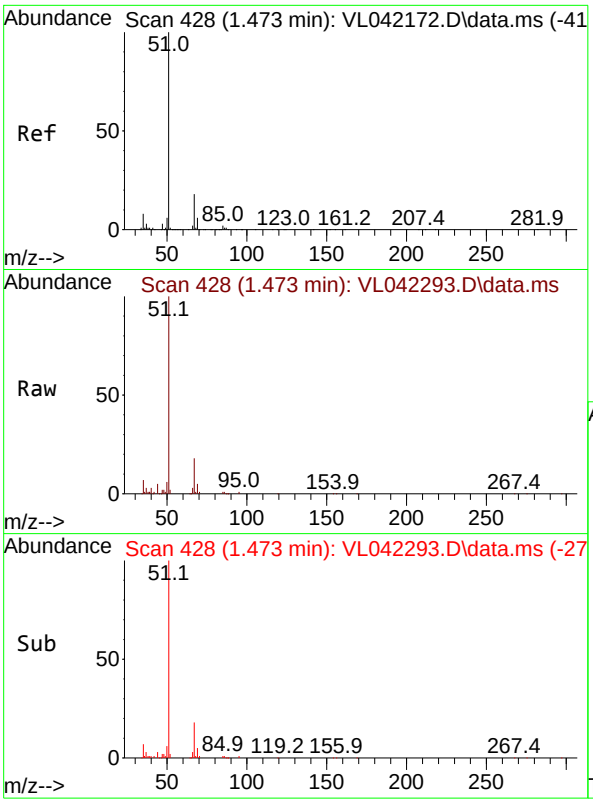




#2
Dichlorodifluoromethane
Concen: 0.366 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion: 85 Resp: 8768

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.5 | 26.1 | 39.1 |



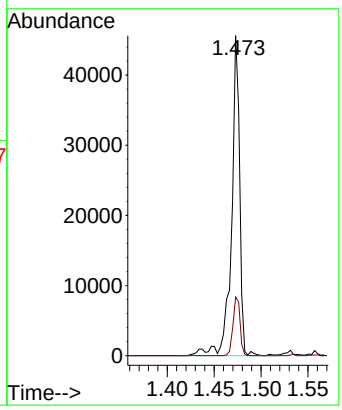


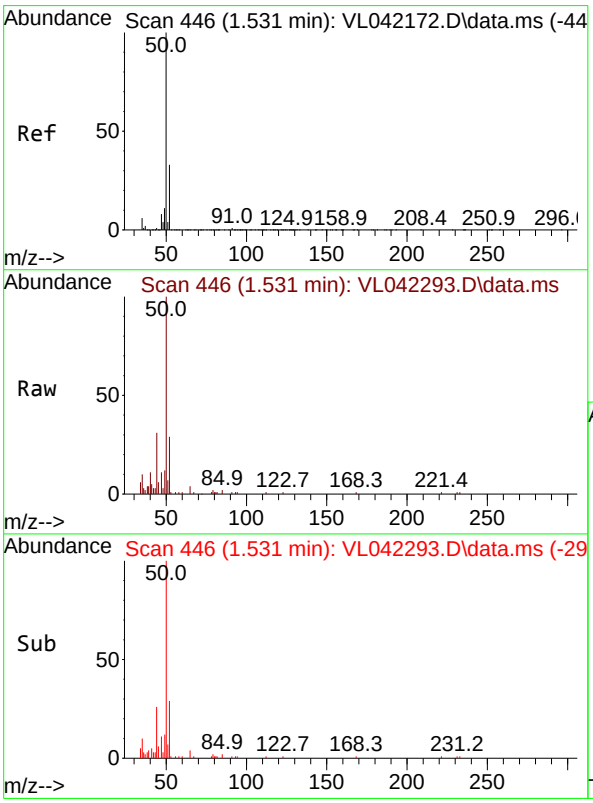

#3
Chlorodifluoromethane
Concen: 1.128 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-1-3242025

Tgt Ion: 51 Resp: 27592

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 15.8 | 15.0 | 22.6 |

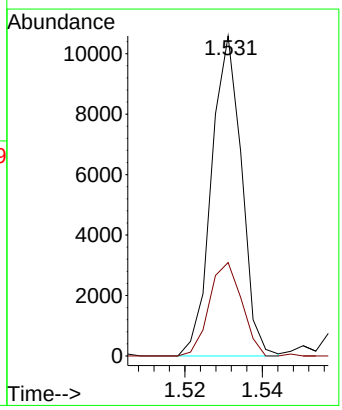


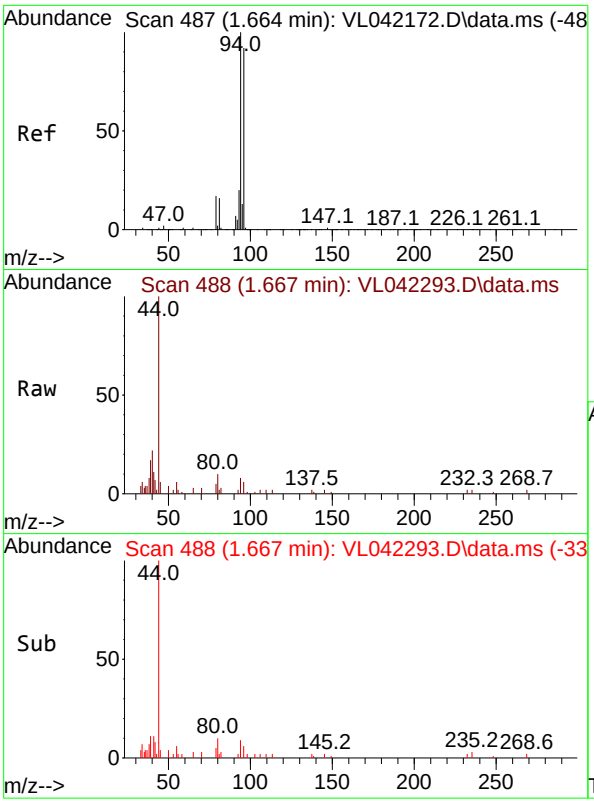




#4
Chloromethane
Concen: 0.584 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion: 50 Resp: 5713

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 29.2 | 26.1 | 39.1 |



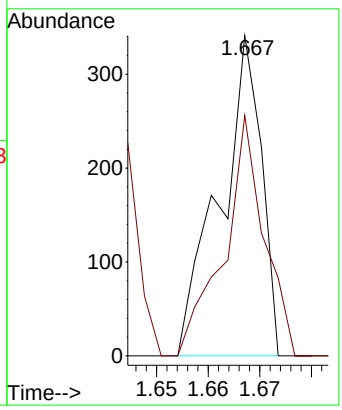


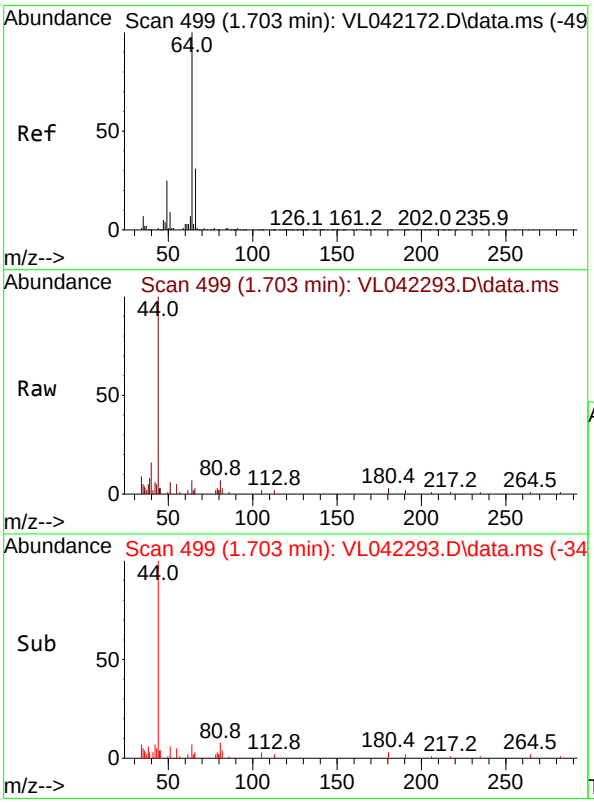

#6
Bromomethane
Concen: 0.043 ppbv
RT: 1.667 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-1-3242025

Tgt Ion: 94 Resp: 191

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 75.1 | 73.1 | 109.7 |

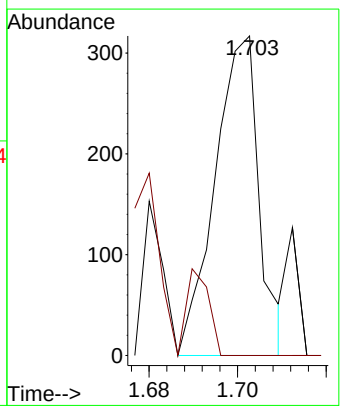


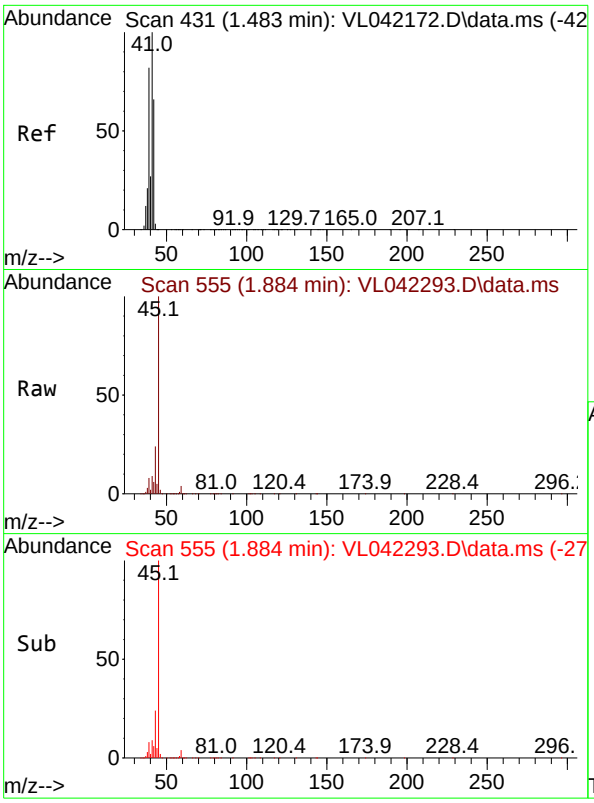




#7
Chloroethane
Concen: 0.056 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion: 64 Resp: 219

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 0.0 | 25.2 | 37.8# |



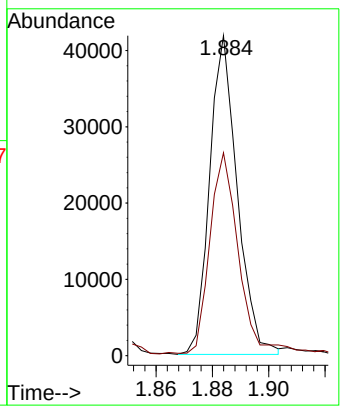


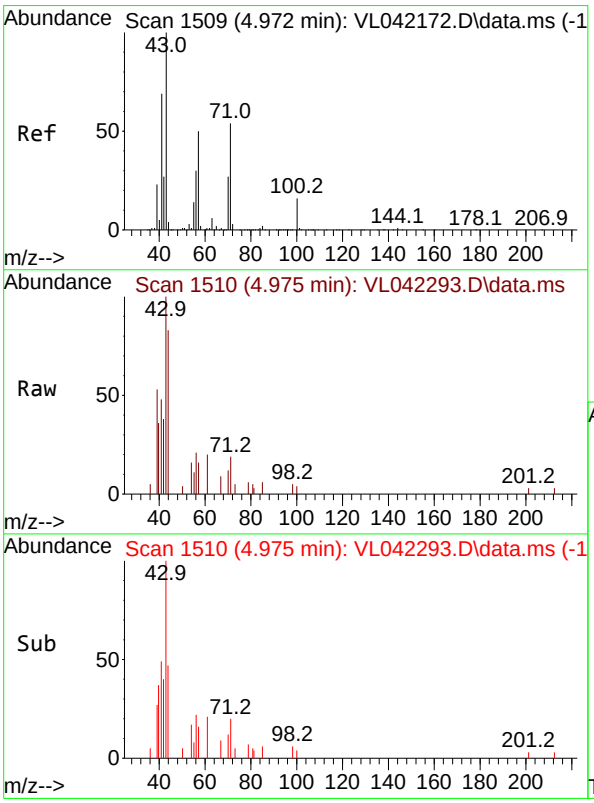

#9
Propene
Concen: 2.537 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.401 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-1-3242025

Tgt Ion: 41 Resp: 28450

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 65.7 | 55.4 | 83.2 |

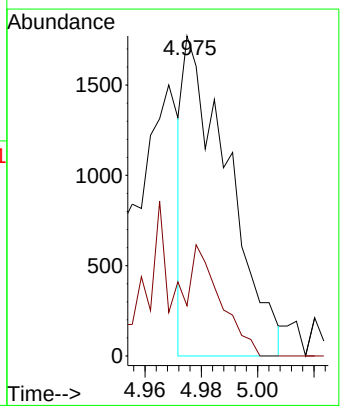


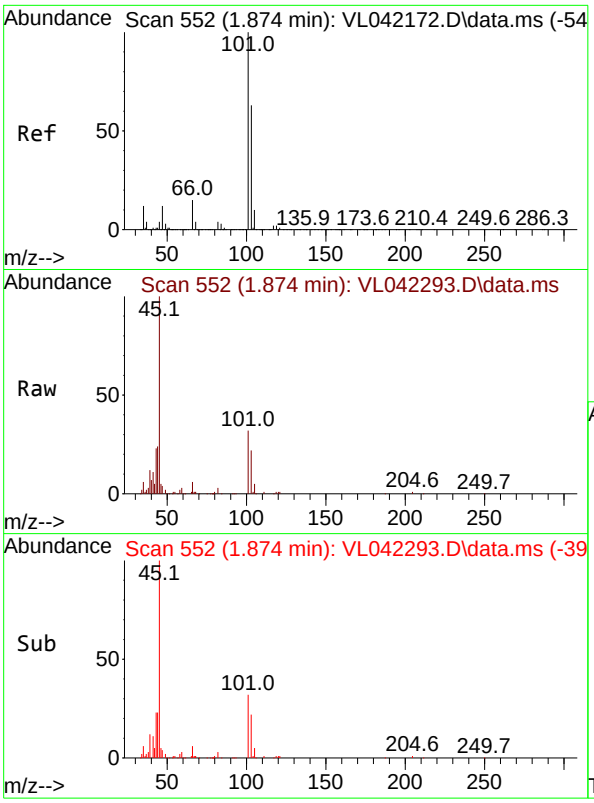




#10
Heptane
Concen: 0.065 ppbv
RT: 4.975 min Scan# 1510
Delta R.T. 0.003 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion: 43 Resp: 1928

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 0.0 | 39.4 | 59.2# |



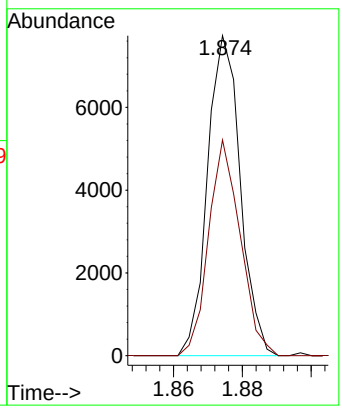


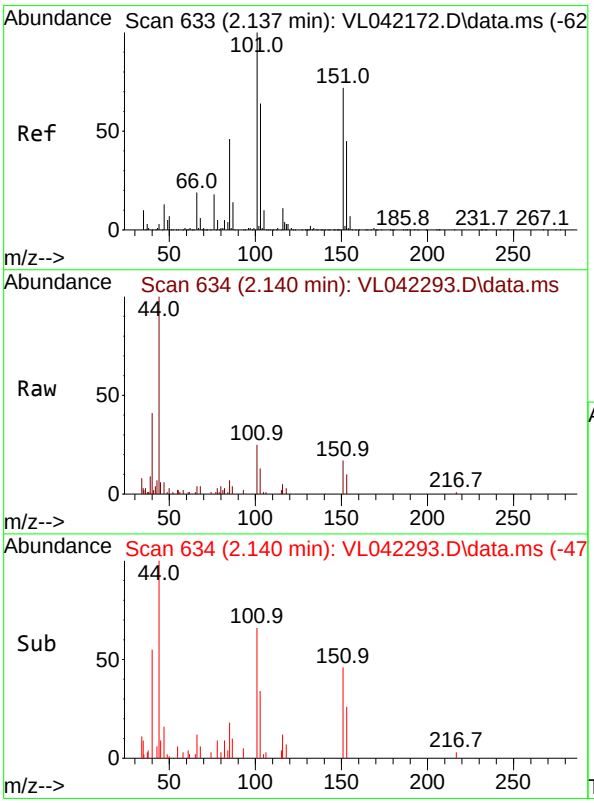

#11
Trichlorofluoromethane
Concen: 0.220 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-1-3242025

Tgt Ion:101 Resp: 5120

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 67.4 | 50.2 | 75.2 |

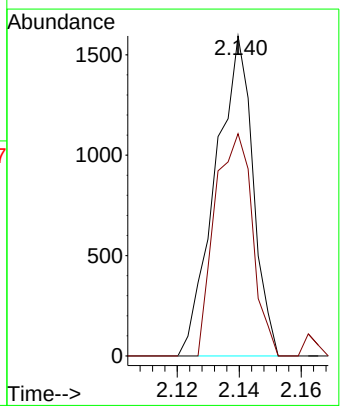


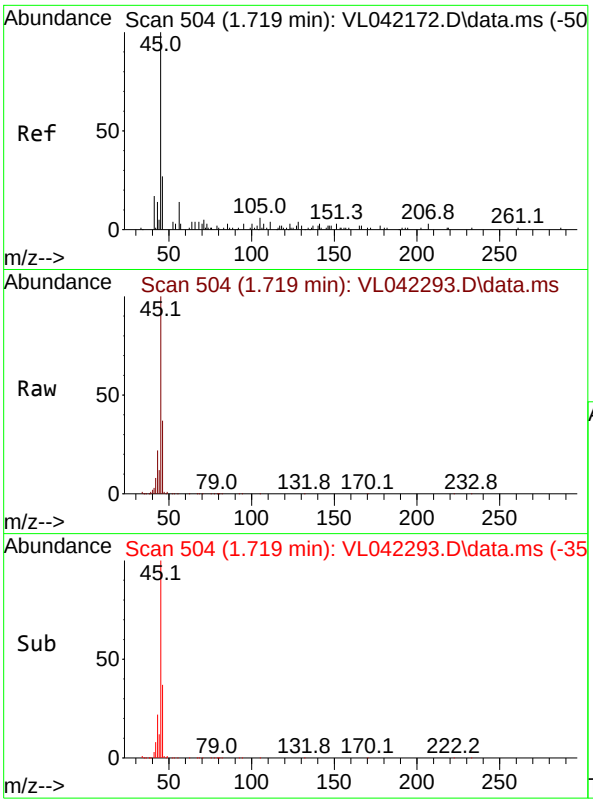




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.070 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion:101 Resp: 1343

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 71.8 | 57.1 | 85.7 |



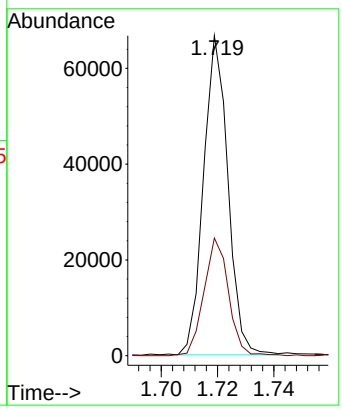


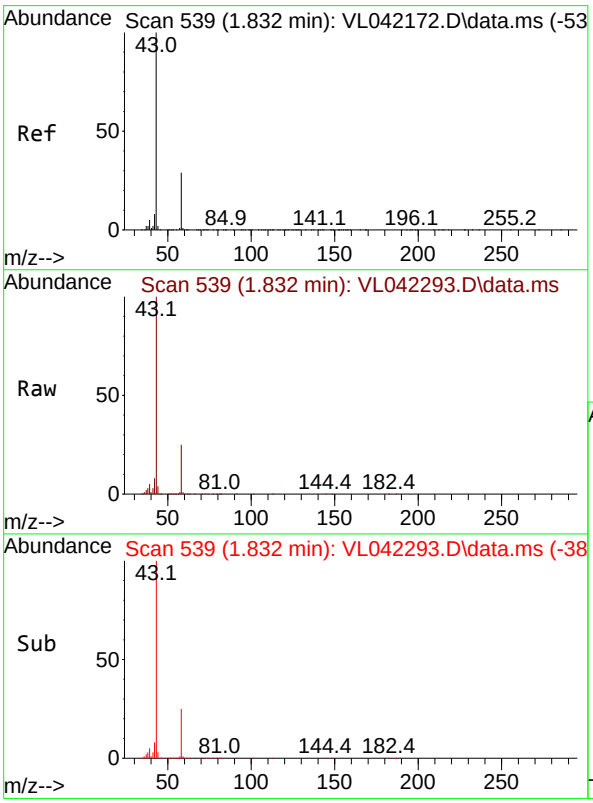

#13
Ethanol
Concen: 37.833 ppbv
RT: 1.719 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-1-3242025

Tgt Ion: 45 Resp: 40099

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 37.4 | 20.2 | 80.8 |

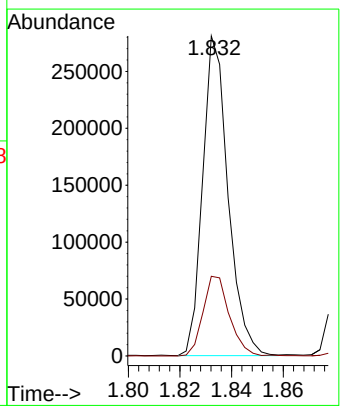


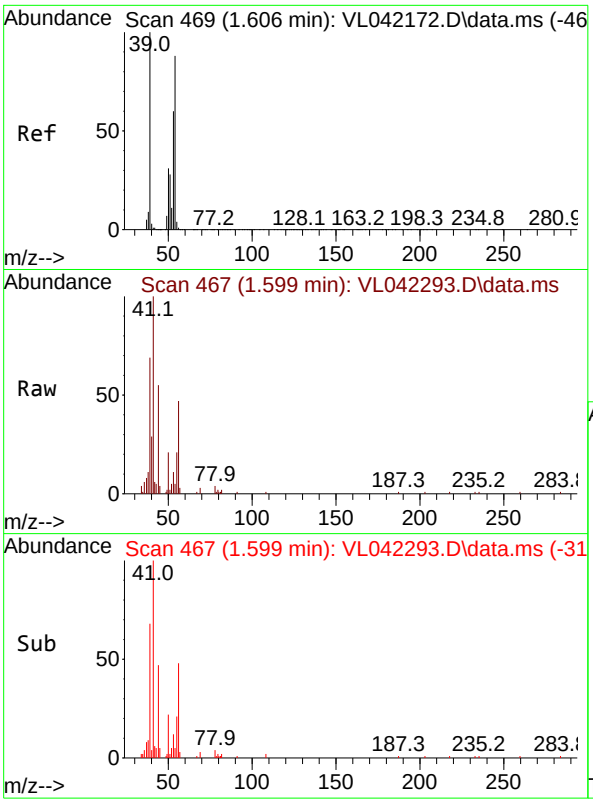




#15
Acetone
Concen: 8.467 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion: 43 Resp: 192031

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 26.1 | 23.2 | 34.8 |



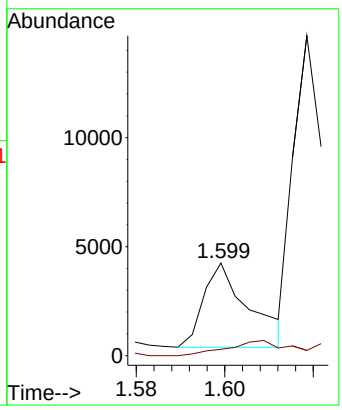


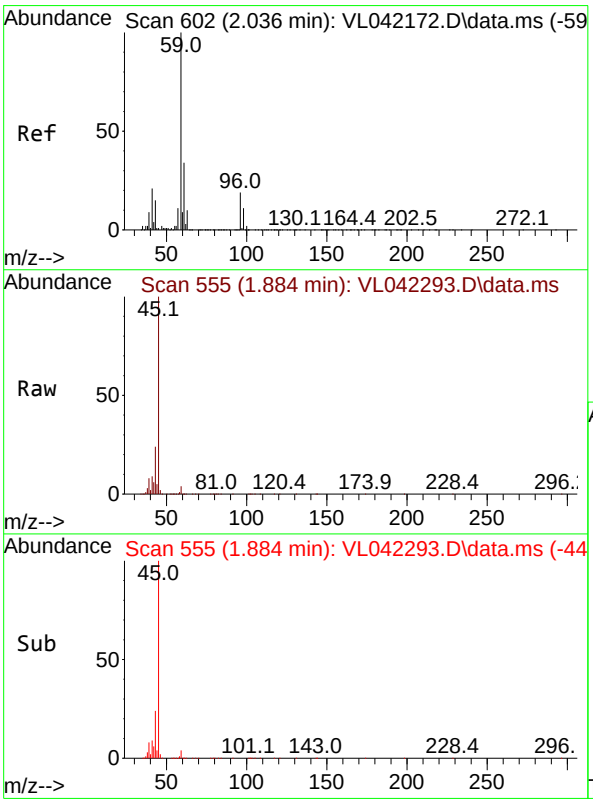

#16
1,3-Butadiene
Concen: 0.245 ppbv
RT: 1.599 min Scan# 4
Delta R.T. -0.007 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-1-3242025

Tgt Ion: 39 Resp: 2714

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 0.0 | 60.7 | 91.1# |

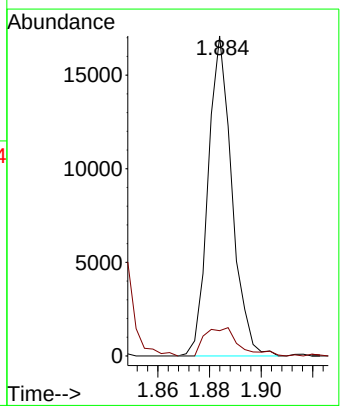


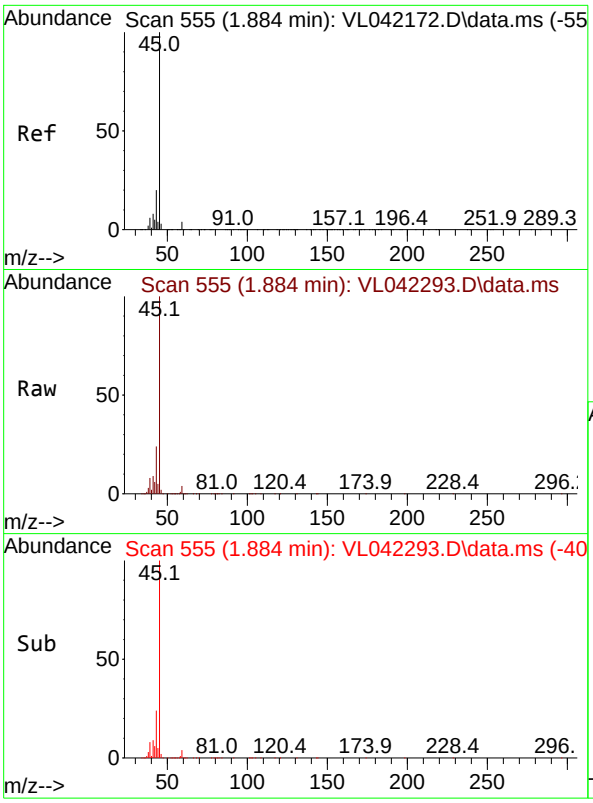




#17
tert-Butyl alcohol
Concen: 0.387 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.152 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion: 59 Resp: 10927

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 13.0 | 8.9 | 13.3 |



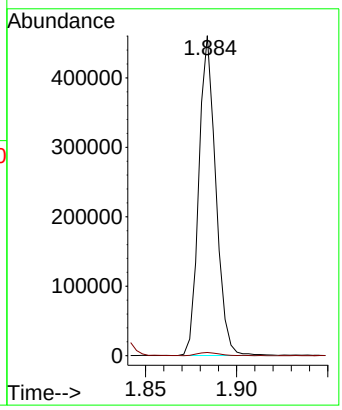


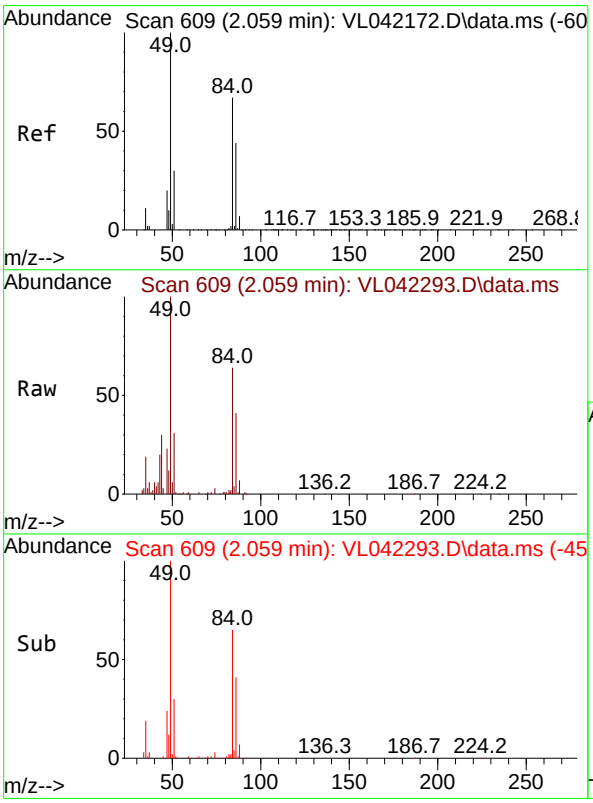

#19
Isopropyl Alcohol
Concen: 23.353 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-1-3242025

Tgt Ion: 45 Resp: 298845

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 1.3 | 36.9 | 55.3# |

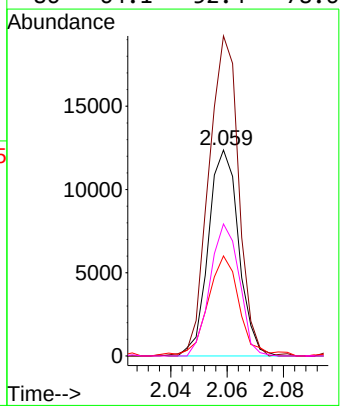


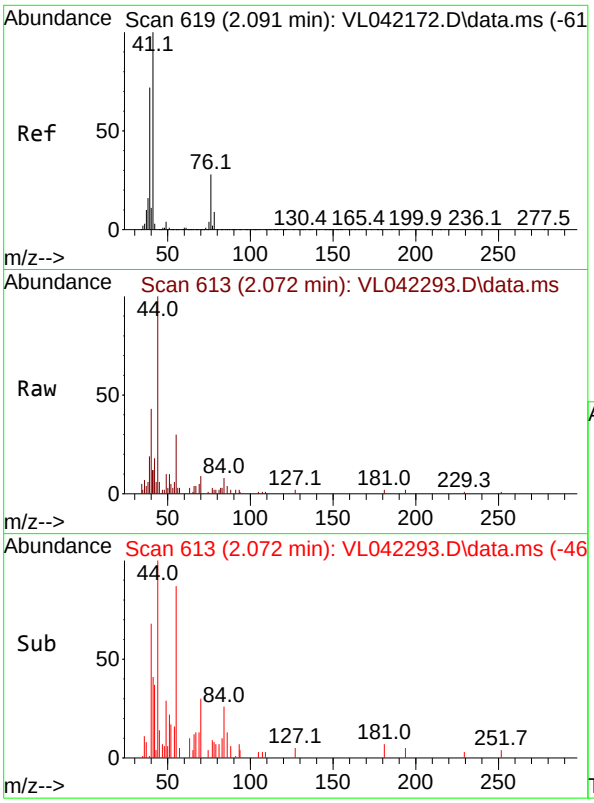




#20
Methylene Chloride
Concen: 1.095 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion: 84 Resp: 9248

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 154.7 | 120.2 | 180.4 |
| 51 | 47.8 | 37.4 | 56.0 |
| 86 | 64.1 | 52.4 | 78.6 |



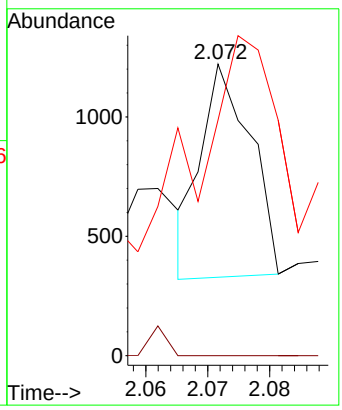


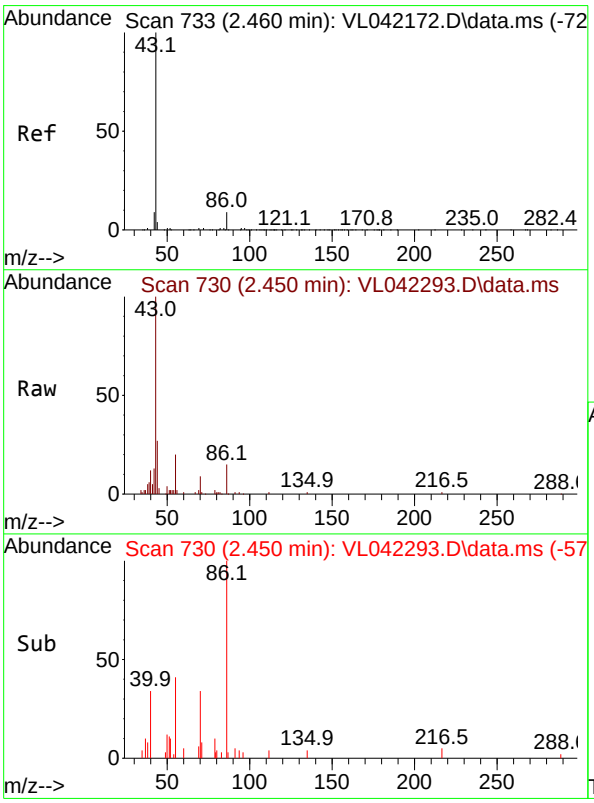

#21
Allyl Chloride
Concen: 0.031 ppbv
RT: 2.072 min Scan# 61
Delta R.T. -0.020 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-1-3242025

Tgt Ion: 41 Resp: 495

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 55.4 | 24.1 | 36.1# |
| 39 | 0.0 | 61.1 | 91.7# |

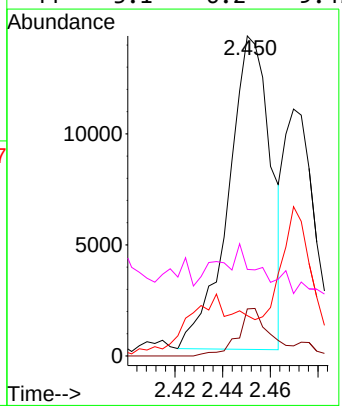


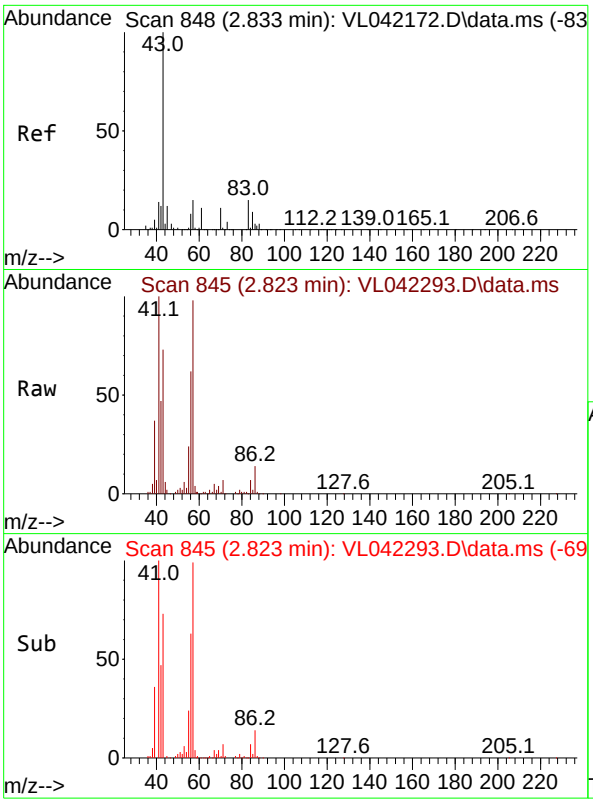




#23
Vinyl Acetate
Concen: 1.785 ppbv
RT: 2.450 min Scan# 730
Delta R.T. -0.010 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion: 43 Resp: 17521

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 15.0 | 5.5 | 8.3# |
| 42 | 6.5 | 8.6 | 13.0# |
| 44 | 3.1 | 6.2 | 9.4# |



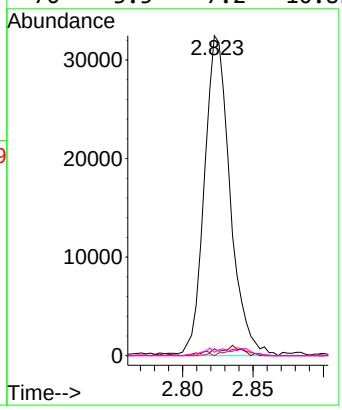


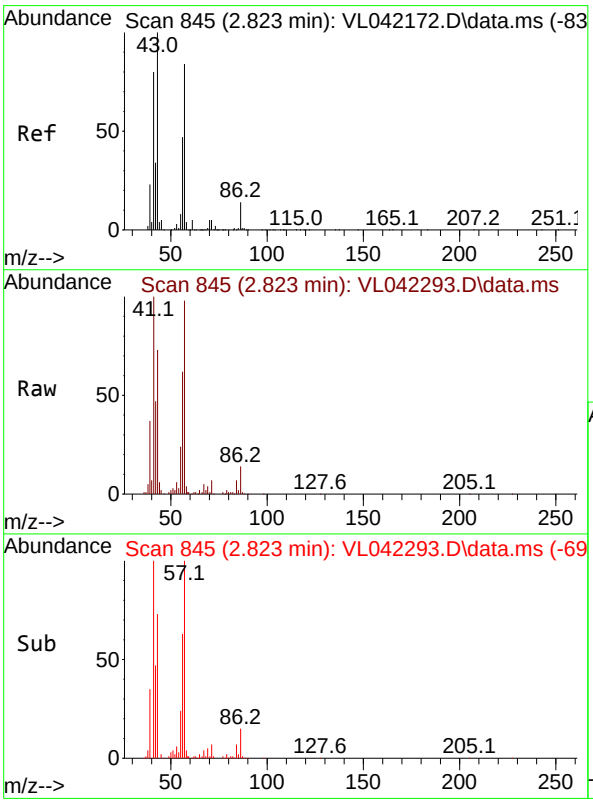

#25
Ethyl Acetate
Concen: 0.700 ppbv
RT: 2.823 min Scan# 84
Delta R.T. -0.010 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-1-3242025

Tgt Ion: 43 Resp: 41224

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 3.7 | 8.2 | 12.2# |
| 61 | 2.1 | 7.3 | 10.9# |
| 70 | 3.5 | 7.2 | 10.8# |

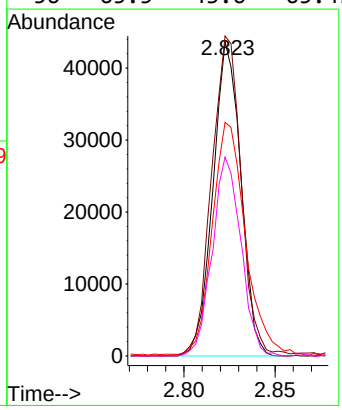


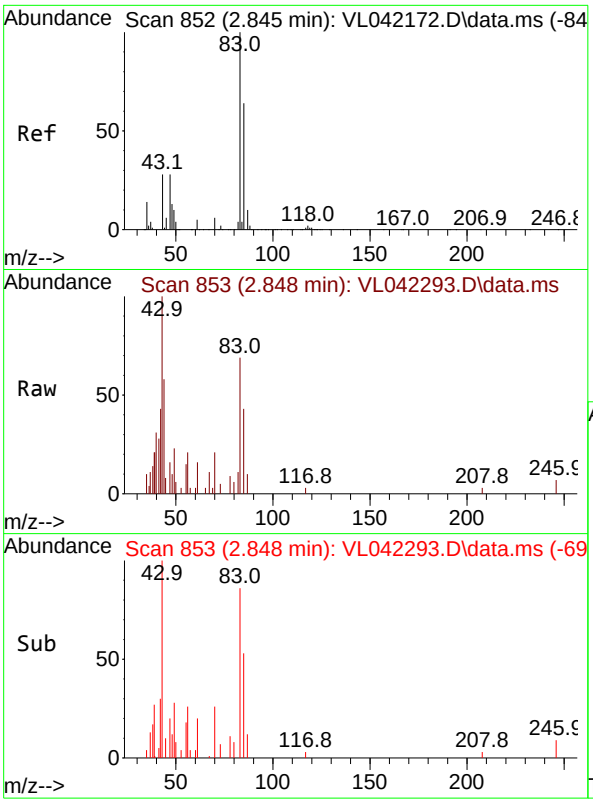




#26
Hexane
Concen: 2.041 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion: 57 Resp: 46406

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 108.6 | 76.6 | 114.8 |
| 43 | 89.9 | 207.8 | 311.8# |
| 56 | 65.5 | 43.6 | 65.4# |



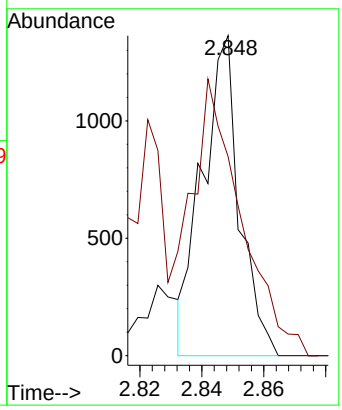


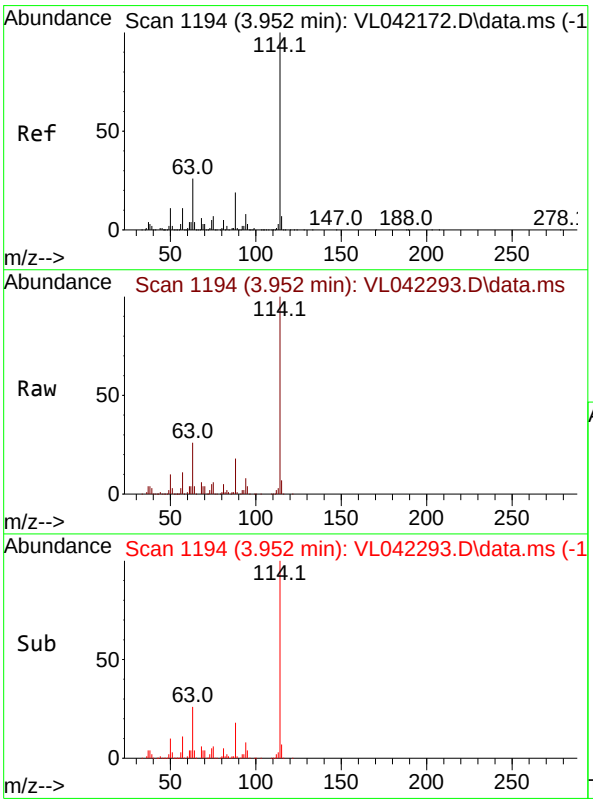

#29
Chloroform
Concen: 0.034 ppbv
RT: 2.848 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-1-3242025

Tgt Ion: 83 Resp: 1132

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 53.2 | 51.4 | 77.2 |

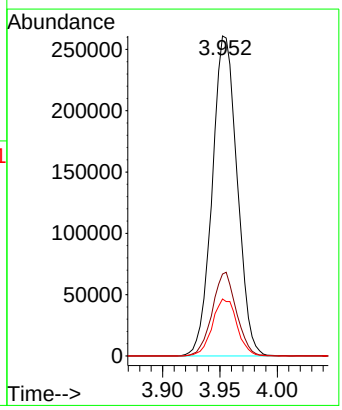


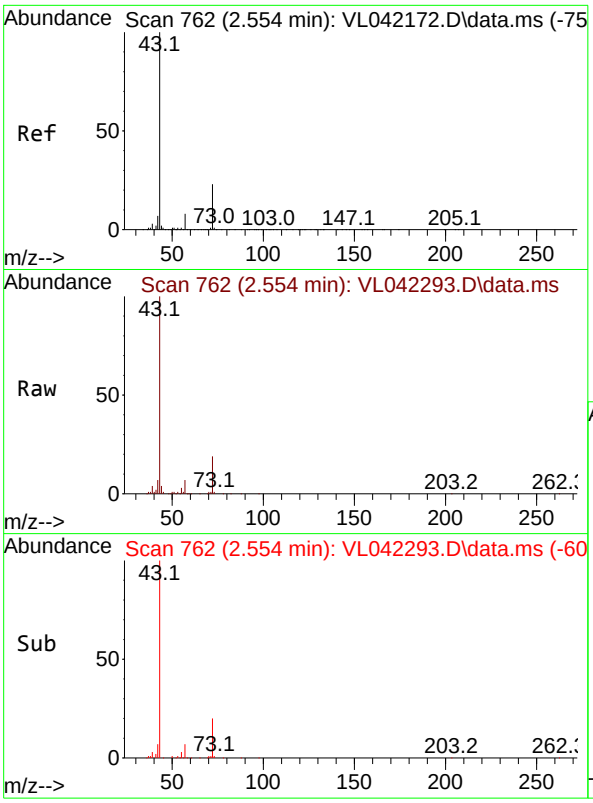




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion:114 Resp: 394727

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.3 | 20.7 | 31.1 |
| 88 | 17.6 | 15.0 | 22.4 |



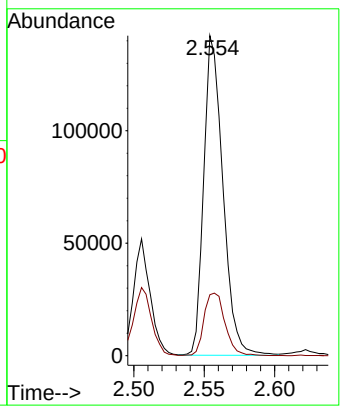


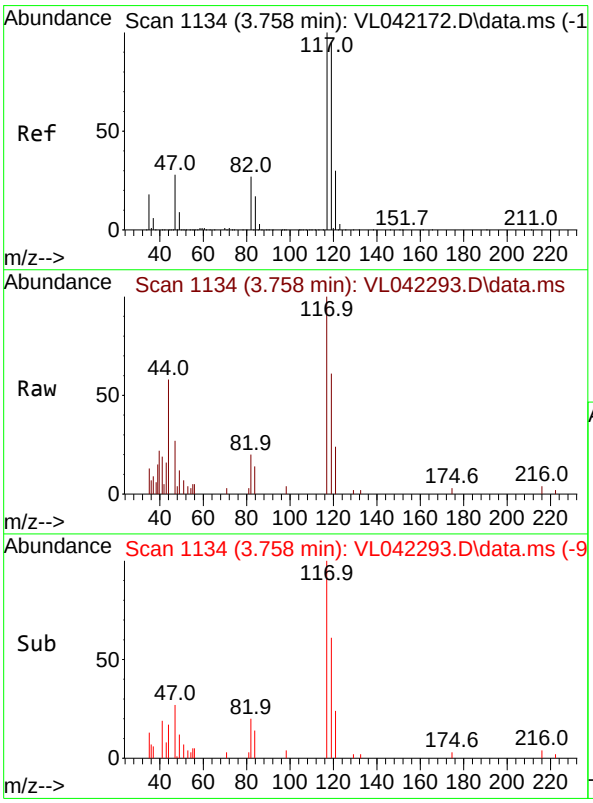

#34
2-Butanone
Concen: 4.715 ppbv
RT: 2.554 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-1-3242025

Tgt Ion: 43 Resp: 134955

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 21.5 | 18.2 | 27.2 |

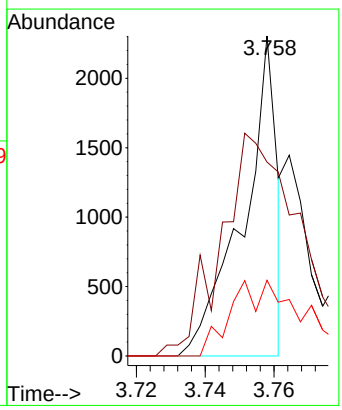


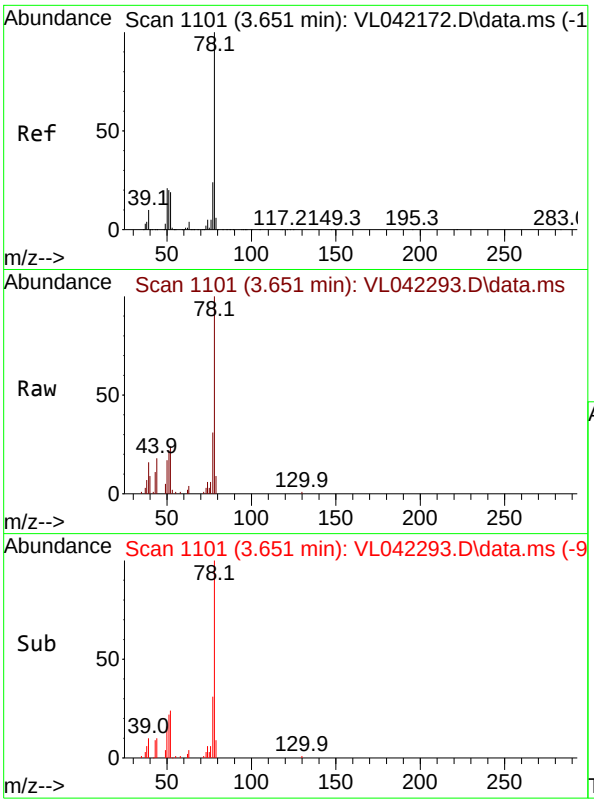




#35
Carbon Tetrachloride
Concen: 0.051 ppbv
RT: 3.758 min Scan# 1134
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion:117 Resp: 1572

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 57.2 | 76.2 | 114.2# |
| 121 | 23.6 | 24.2 | 36.4# |



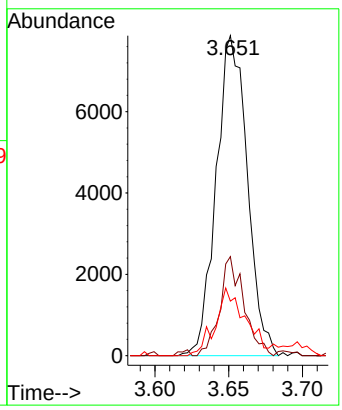


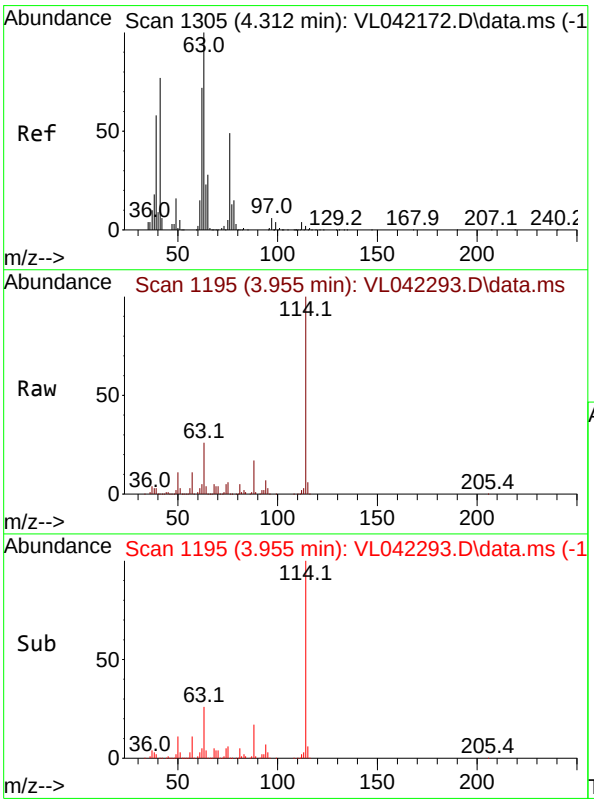

#36
Benzene
Concen: 0.294 ppbv
RT: 3.651 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-1-3242025

Tgt Ion: 78 Resp: 11524

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 29.8 | 19.1 | 28.7# |
| 50 | 17.1 | 16.6 | 24.8 |

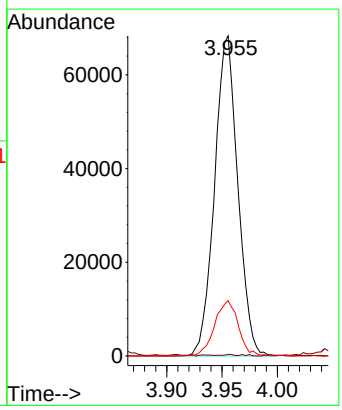


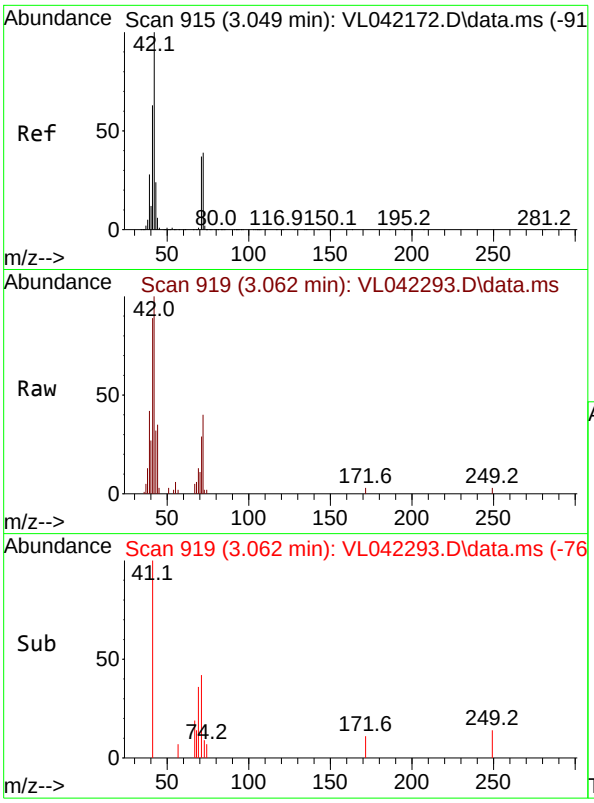




#39
1,2-Dichloropropane
Concen: 7.012 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.356 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion: 63 Resp: 99931

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 0.2 | 61.7 | 92.5# |
| 62 | 17.3 | 57.6 | 86.4# |



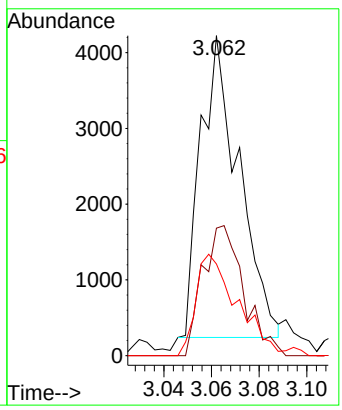


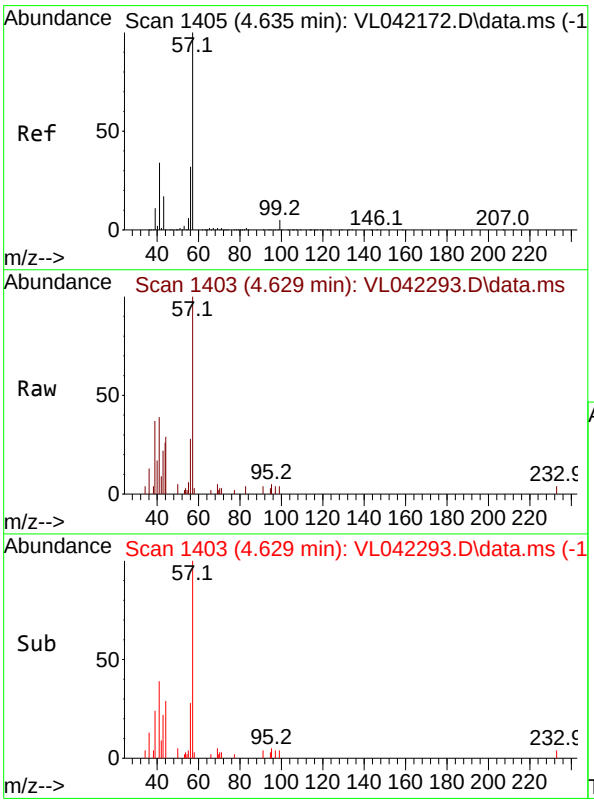

#41
Tetrahydrofuran
Concen: 0.270 ppbv
RT: 3.062 min Scan# 91
Delta R.T. 0.013 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-1-3242025

Tgt Ion: 42 Resp: 4453

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 45.9 | 31.4 | 47.0 |
| 71 | 37.1 | 30.2 | 45.4 |

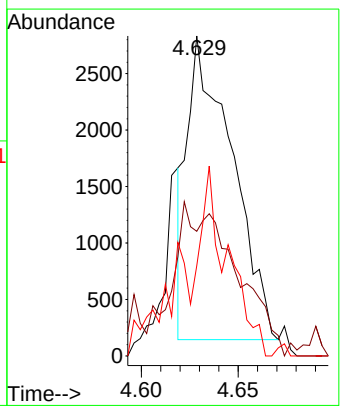


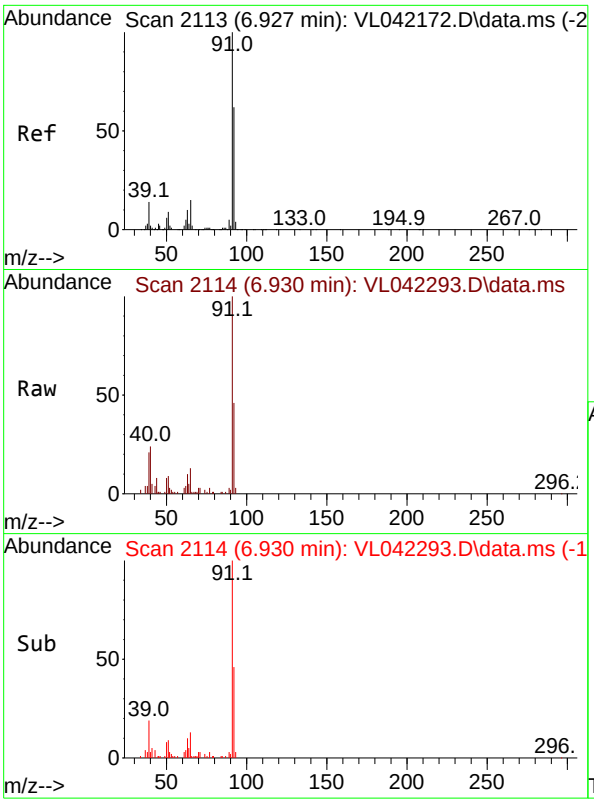




#44
2,2,4-Trimethylpentane
Concen: 0.065 ppbv
RT: 4.629 min Scan# 1403
Delta R.T. -0.007 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion: 57 Resp: 4328

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 65.9 | 26.8 | 40.2# |
| 56 | 69.2 | 25.6 | 38.4# |



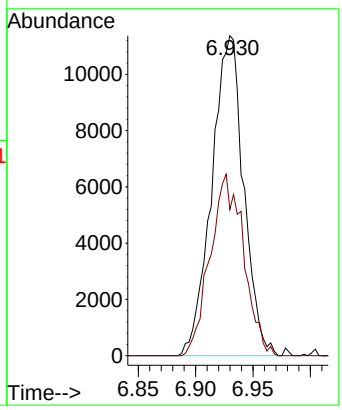


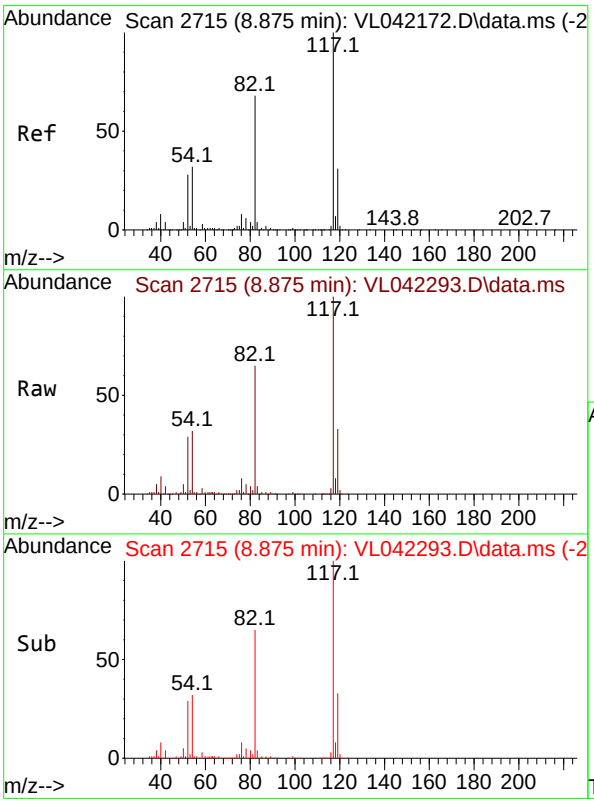

#53
Toluene
Concen: 0.476 ppbv
RT: 6.930 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-1-3242025

Tgt Ion: 91 Resp: 22070

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 59.2 | 48.4 | 72.6 |

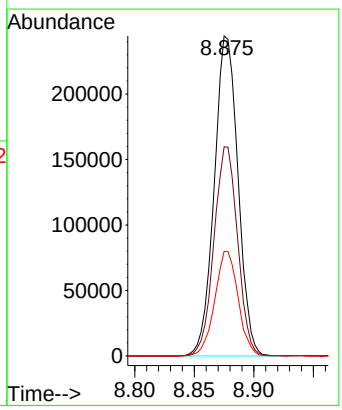


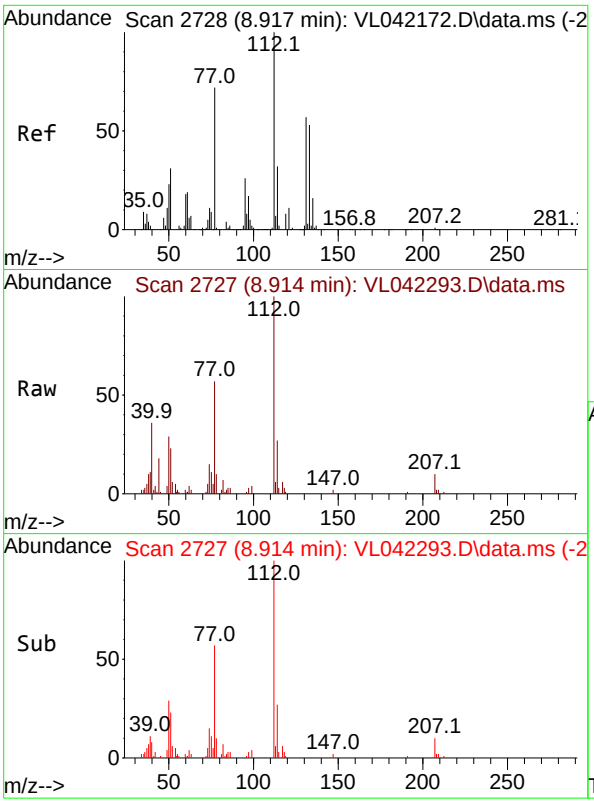




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion:117 Resp: 338809

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 65.0 | 55.8 | 83.6 |
| 119 | 32.2 | 25.5 | 38.3 |



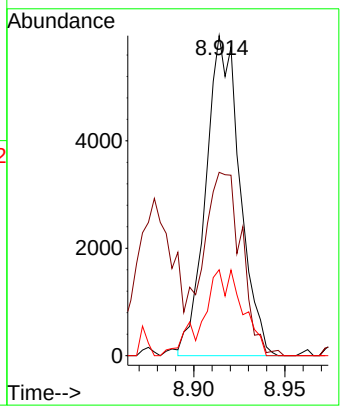


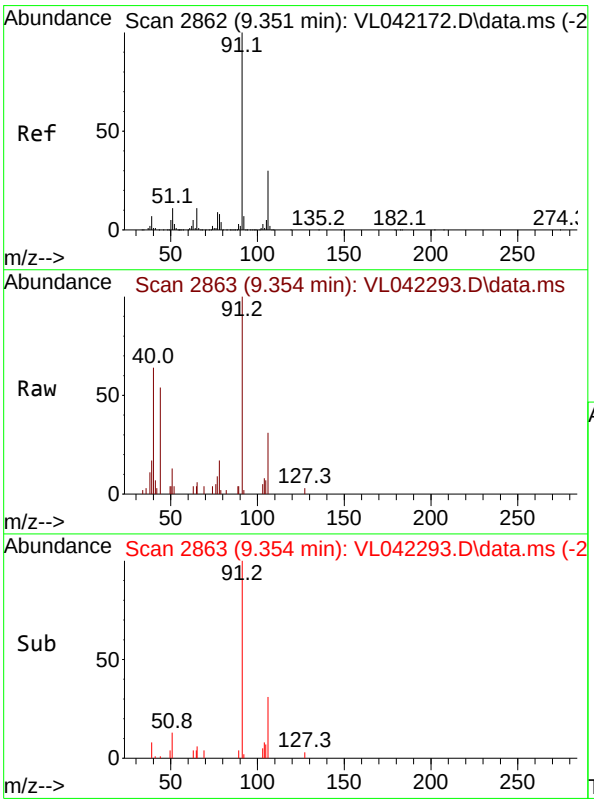

#57
Chlorobenzene
Concen: 0.241 ppbv
RT: 8.914 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-1-3242025

Tgt Ion:112 Resp: 7743

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 55.6 | 58.2 | 87.2# |
| 114 | 26.9 | 29.1 | 35.5# |

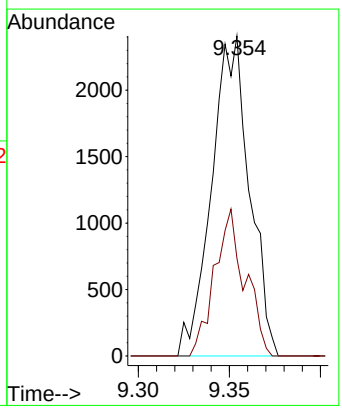


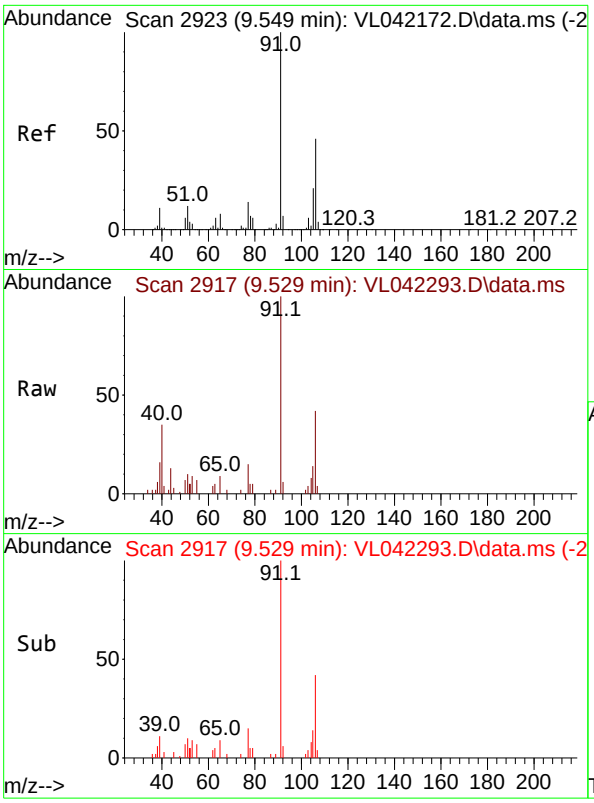




#58
Ethyl Benzene
Concen: 0.058 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.003 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion: 91 Resp: 3481

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.6 | 24.2 | 36.2 |



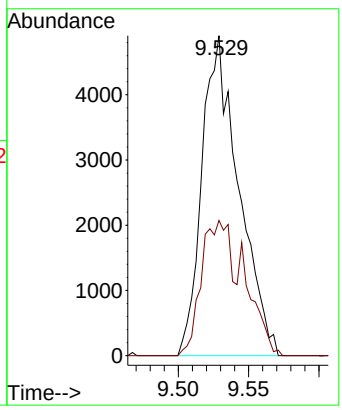


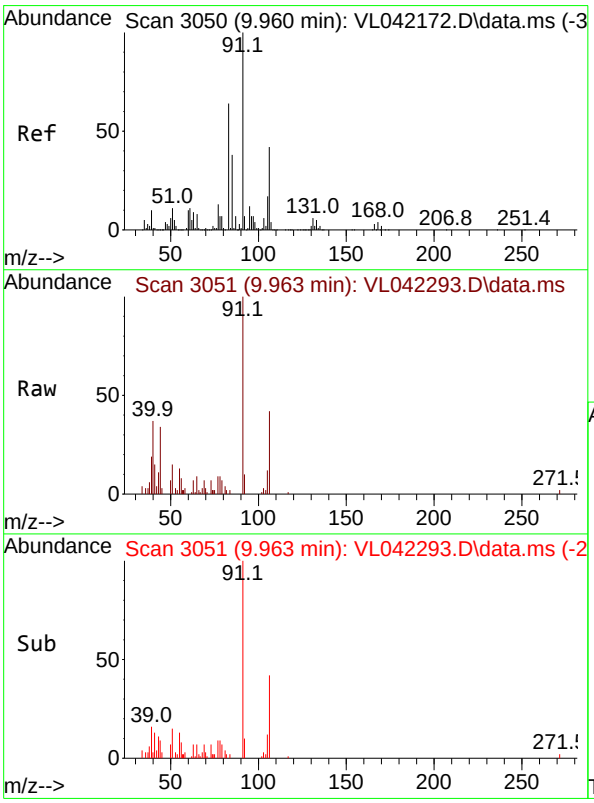

#59
m/p-Xylene
Concen: 0.186 ppbv
RT: 9.529 min Scan# 2
Delta R.T. -0.020 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-1-3242025

Tgt Ion: 91 Resp: 8935

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 48.6 | 36.4 | 54.6 |

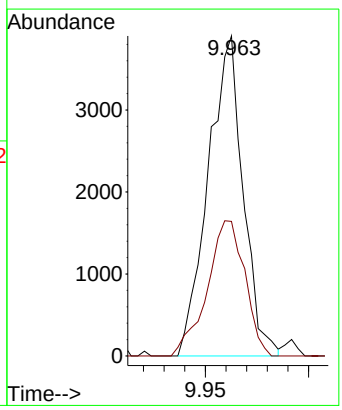


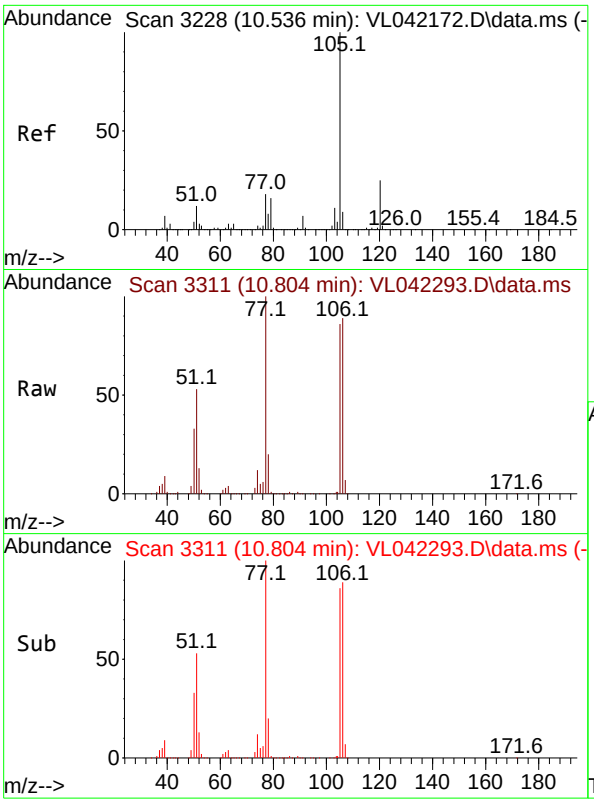




#60
o-Xylene
Concen: 0.095 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.003 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion: 91 Resp: 4584

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 45.5 | 20.8 | 62.5 |



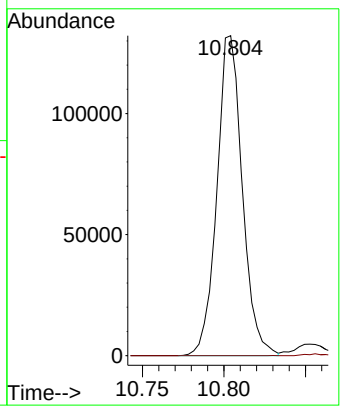


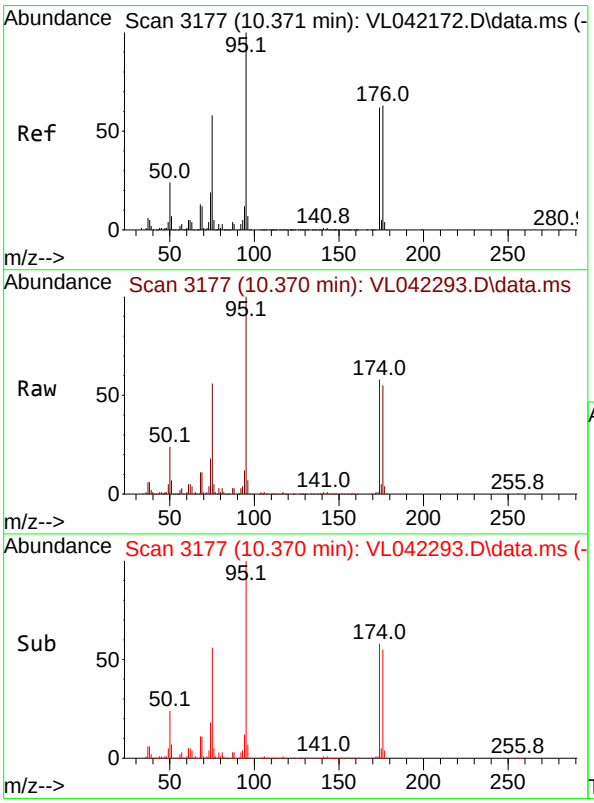

#62
Isopropylbenzene
Concen: 1.987 ppbv
RT: 10.804 min Scan# 3
Delta R.T. 0.268 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-1-3242025

Tgt Ion:105 Resp: 143134

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 0.0 | 19.9 | 29.9# |

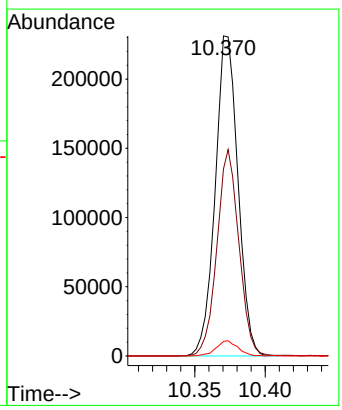


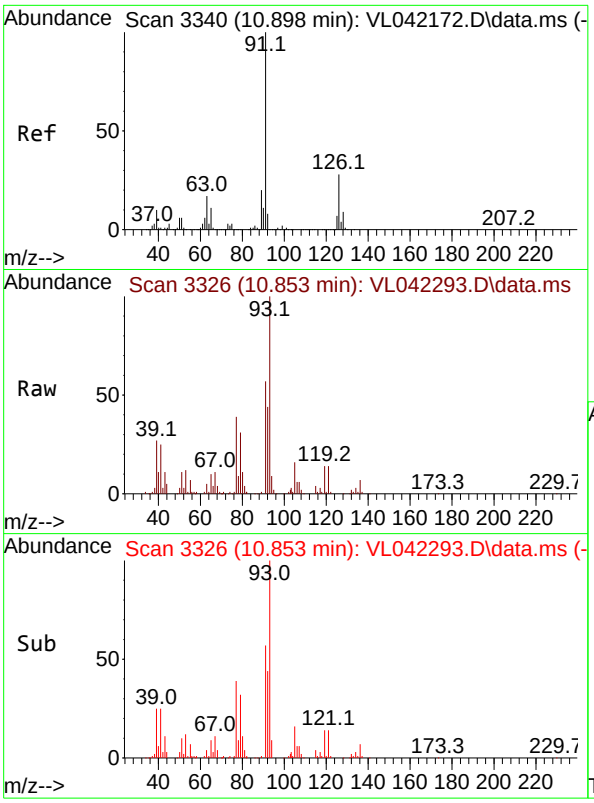




#68
1-Bromo-4-Fluorobenzene
Concen: 9.362 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion: 95 Resp: 260496

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 62.4 | 50.6 | 76.0 |
| 175 | 4.6 | 3.8 | 5.6 |



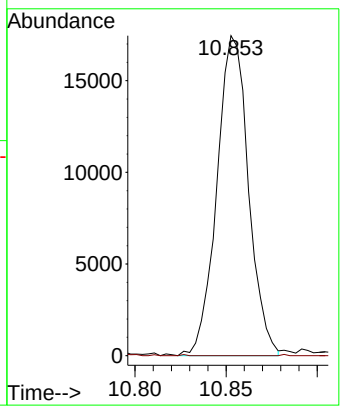


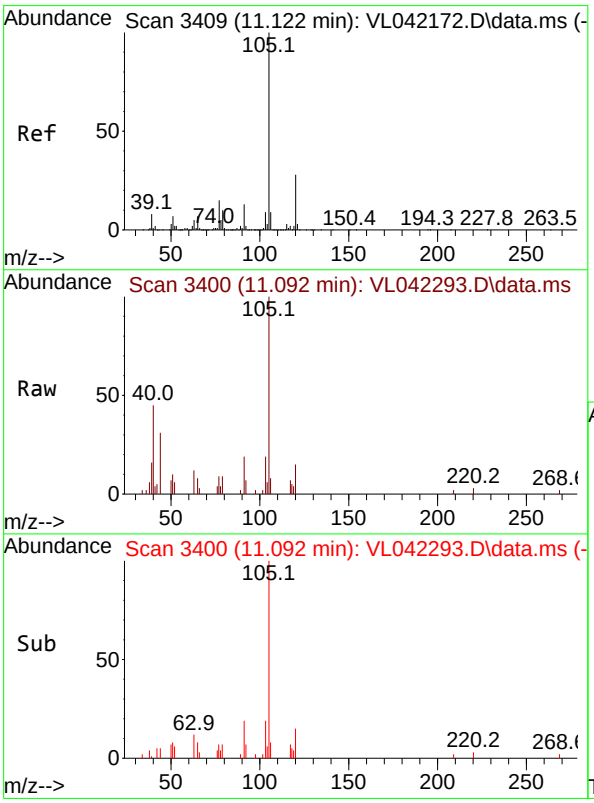

#71
2-Chlorotoluene
Concen: 0.377 ppbv
RT: 10.853 min Scan# 3
Delta R.T. -0.046 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-1-3242025

Tgt Ion: 91 Resp: 21081

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 0.1 | 11.6 | 46.4# |

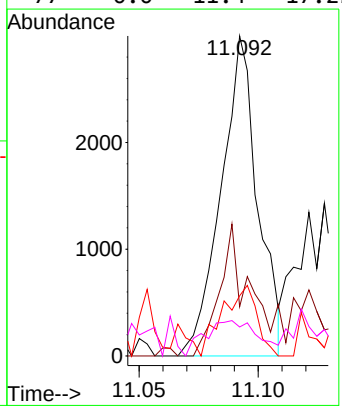


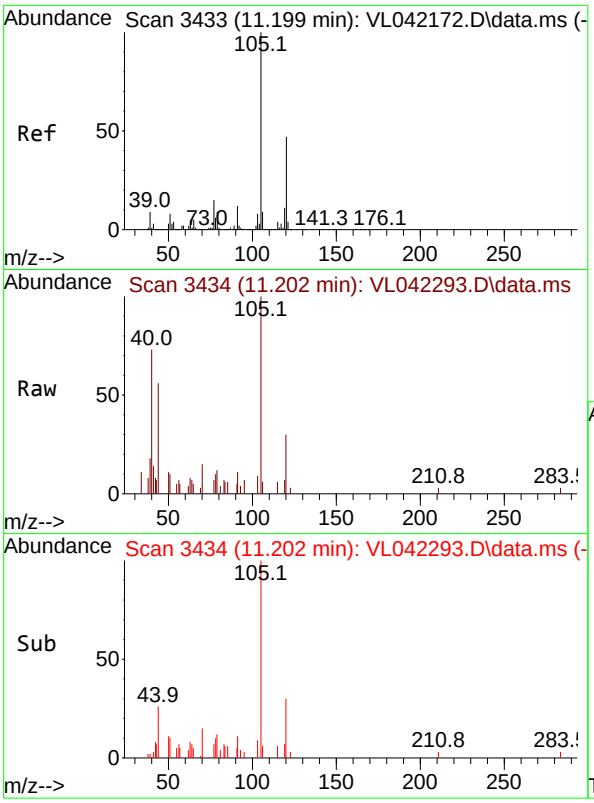




#72
4-Ethyltoluene
Concen: 0.053 ppbv
RT: 11.092 min Scan# 3400
Delta R.T. -0.029 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion:105 Resp: 3205

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 54.5 | 23.4 | 35.0# |
| 91 | 24.8 | 10.3 | 15.5# |
| 77 | 0.0 | 11.4 | 17.2# |



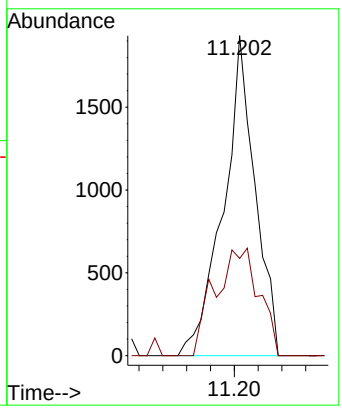


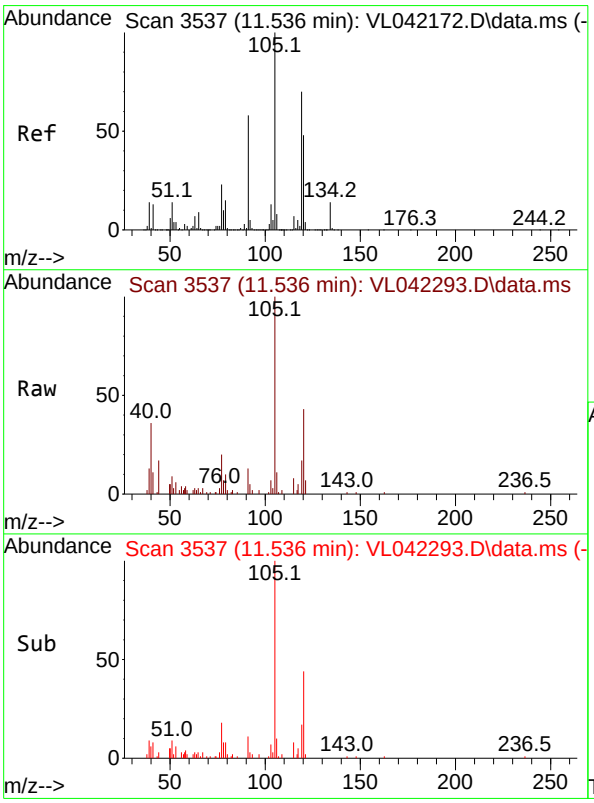

#73
1,3,5-Trimethylbenzene
Concen: 0.034 ppbv
RT: 11.202 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-1-3242025

Tgt Ion:105 Resp: 1783

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 30.4 | 37.4 | 56.0# |

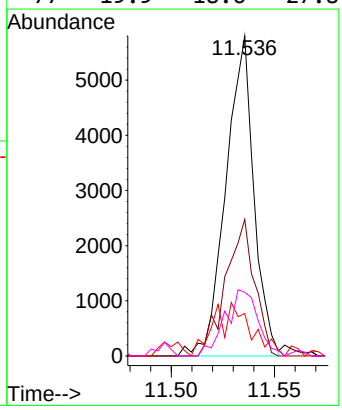



#74
1,2,4-Trimethylbenzene
Concen: 0.090 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion:105 Resp: 5457

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 42.7 | 38.6 | 58.0 |
| 91 | 11.2 | 46.2 | 69.2# |
| 77 | 19.9 | 18.6 | 27.8 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042294.D
Acq On : 09 Apr 2025 15:50
Operator : SY/MD
Sample : Q1665-08
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-2-3242025

Quant Time: Apr 10 01:45:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

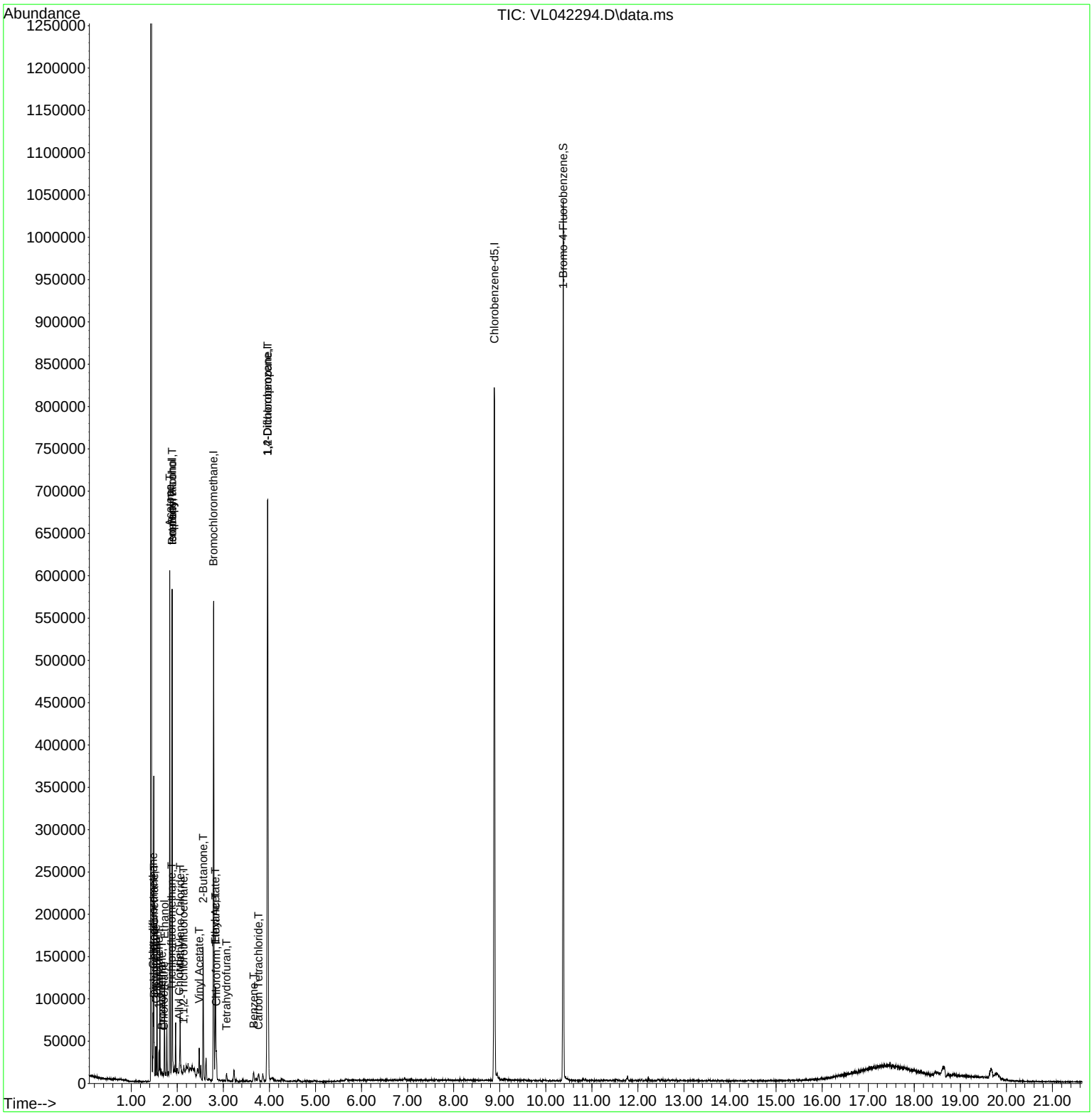
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) Bromochloromethane | 2.787 | 49 | 159184 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.959 | 114 | 384747 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.882 | 117 | 314874 | 10.000 | ppbv | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95 | 236151 | 9.133 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 91.300% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.499 | 85 | 9013 | 0.383 | ppbv | | 100 |
| 3) Chlorodifluoromethane | 1.476 | 51 | 29537 | 1.230 | ppbv | # | 90 |
| 4) Chloromethane | 1.534 | 50 | 10945 | 1.139 | ppbv | | 99 |
| 6) Bromomethane | 1.670 | 94 | 190 | 0.044 | ppbv | # | 63 |
| 7) Chloroethane | 1.706 | 64 | 431 | 0.112 | ppbv | | 95 |
| 9) Propene | 1.887 | 41 | 22225 | 2.019 | ppbv | | 95 |
| 11) Trichlorofluoromethane | 1.877 | 101 | 5632 | 0.246 | ppbv | | 99 |
| 12) 1,1,2-Trichlorotrifluo... | 2.136 | 101 | 1388 | 0.074 | ppbv | # | 81 |
| 13) Ethanol | 1.722 | 45 | 35576 | 34.196 | ppbv | | 82 |
| 15) Acetone | 1.835 | 43 | 257522 | 11.567 | ppbv | | 96 |
| 16) 1,3-Butadiene | 1.599 | 39 | 3737 | 0.344 | ppbv | # | 53 |
| 17) tert-Butyl alcohol | 1.887 | 59 | 8353 | 0.301 | ppbv | | 95 |
| 19) Isopropyl Alcohol | 1.887 | 45 | 224606 | 17.881 | ppbv | # | 33 |
| 20) Methylene Chloride | 2.062 | 84 | 8683 | 1.047 | ppbv | # | 84 |
| 21) Allyl Chloride | 2.046 | 41 | 1988 | 0.127 | ppbv | # | 79 |
| 23) Vinyl Acetate | 2.476 | 43 | 7754 | 0.805 | ppbv | # | 34 |
| 25) Ethyl Acetate | 2.826 | 43 | 18155 | 0.314 | ppbv | # | 87 |
| 26) Hexane | 2.829 | 57 | 20910 | 0.937 | ppbv | # | 31 |
| 29) Chloroform | 2.848 | 83 | 10374 | 0.318 | ppbv | | 96 |
| 34) 2-Butanone | 2.560 | 43 | 91945 | 3.296 | ppbv | | 97 |
| 35) Carbon Tetrachloride | 3.764 | 117 | 2461 | 0.082 | ppbv | # | 83 |
| 36) Benzene | 3.661 | 78 | 3707 | 0.097 | ppbv | # | 93 |
| 39) 1,2-Dichloropropane | 3.962 | 63 | 97793 | 7.040 | ppbv | # | 22 |
| 41) Tetrahydrofuran | 3.069 | 42 | 2861 | 0.178 | ppbv | # | 86 |

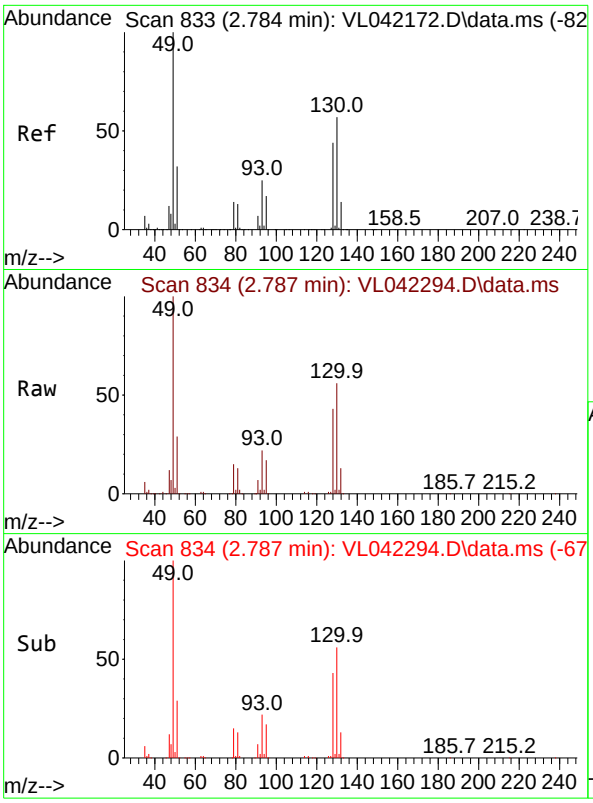
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042294.D
Acq On : 09 Apr 2025 15:50
Operator : SY/MD
Sample : Q1665-08
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-2-3242025

Quant Time: Apr 10 01:45:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration



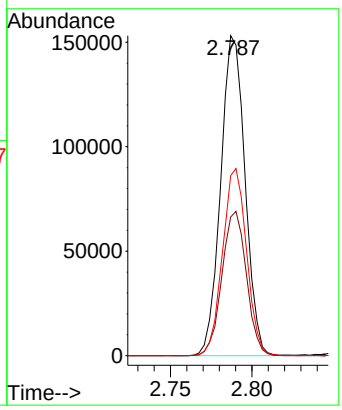


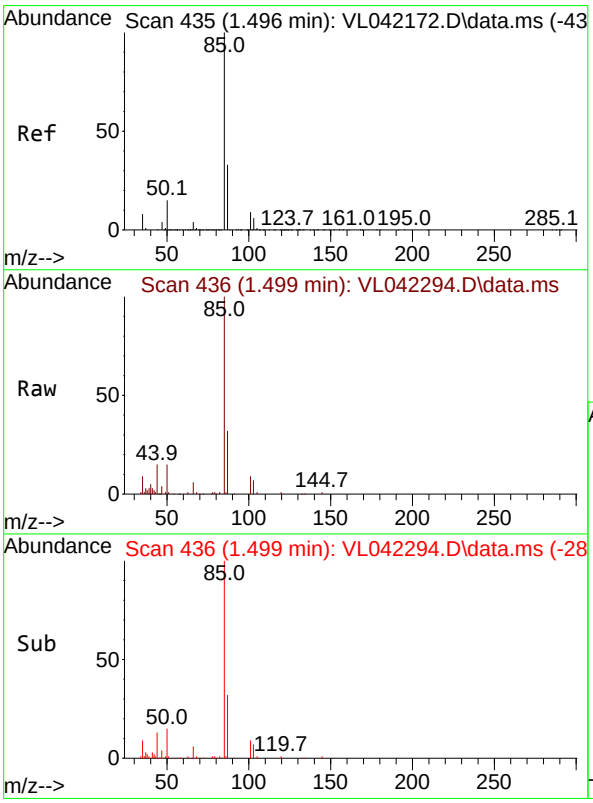

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-2-3242025

Tgt Ion: 49 Resp: 159184

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 45.2 | 22.9 | 68.5 |
| 130 | 57.8 | 28.8 | 86.4 |

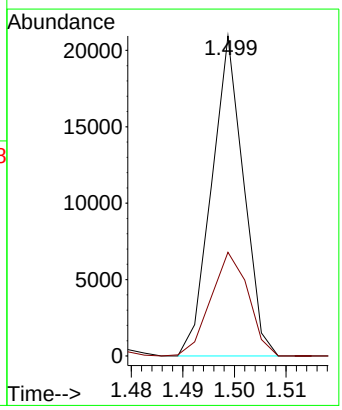


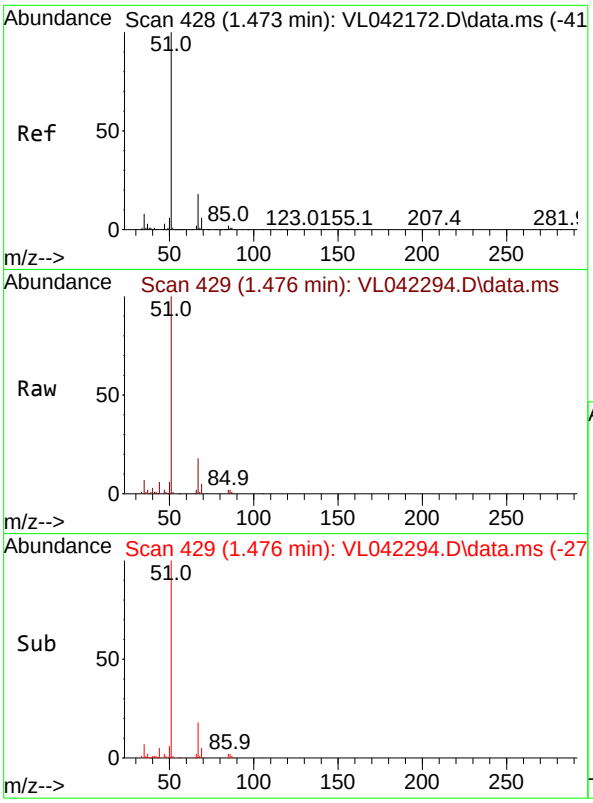




#2
Dichlorodifluoromethane
Concen: 0.383 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

Tgt Ion: 85 Resp: 9013

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.4 | 26.1 | 39.1 |



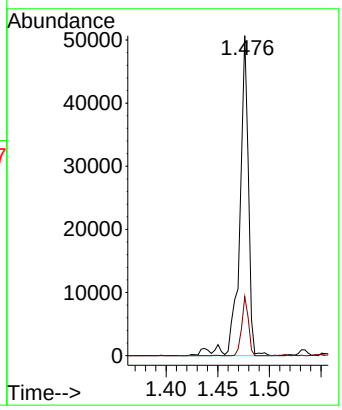


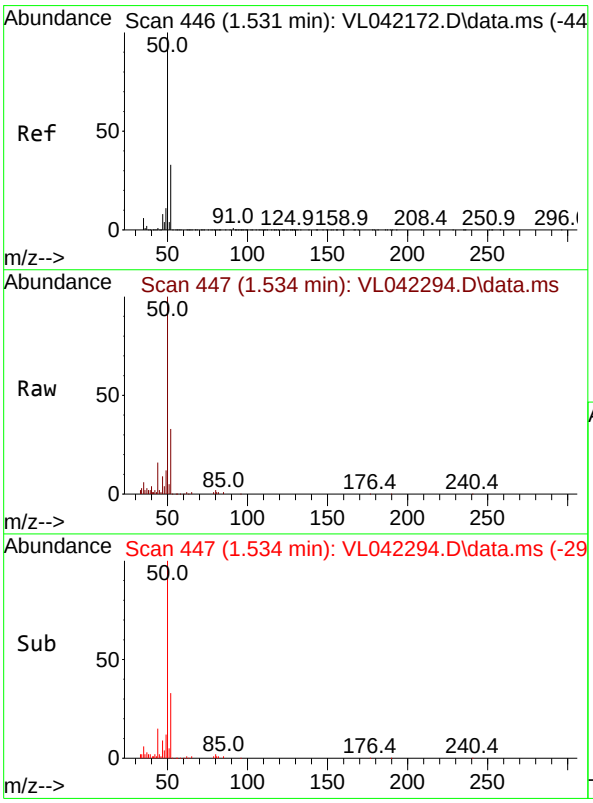

#3
Chlorodifluoromethane
Concen: 1.230 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-2-3242025

Tgt Ion: 51 Resp: 29537

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 14.3 | 15.0 | 22.6# |

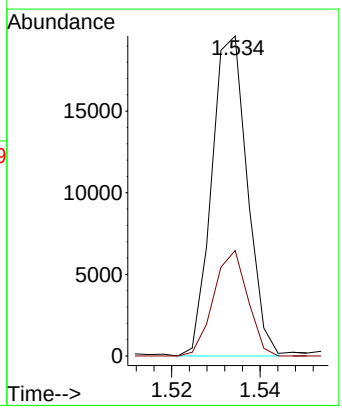


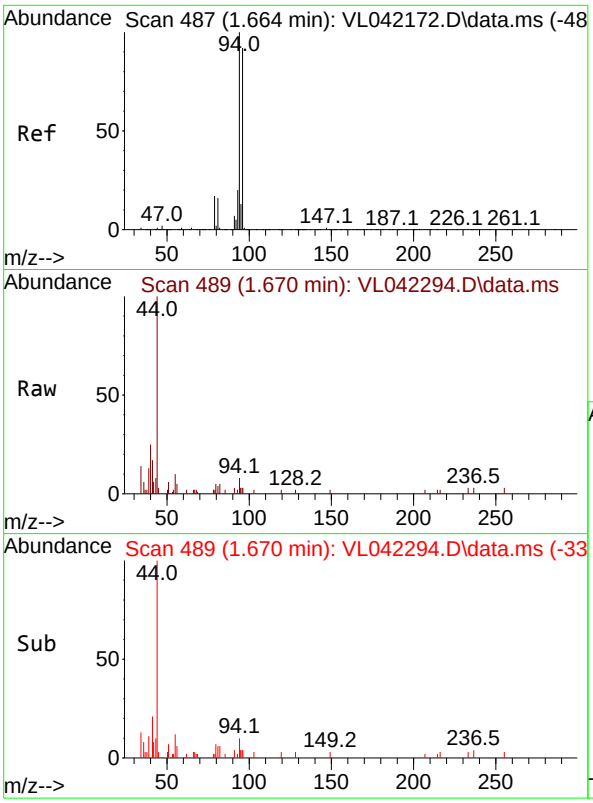




#4
Chloromethane
Concen: 1.139 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

Tgt Ion: 50 Resp: 10945

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.9 | 26.1 | 39.1 |



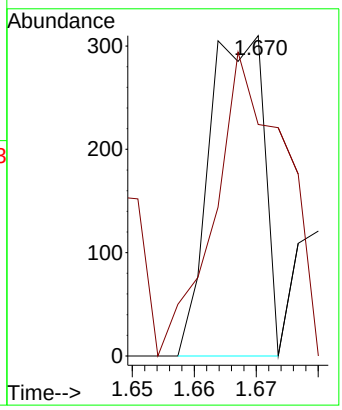


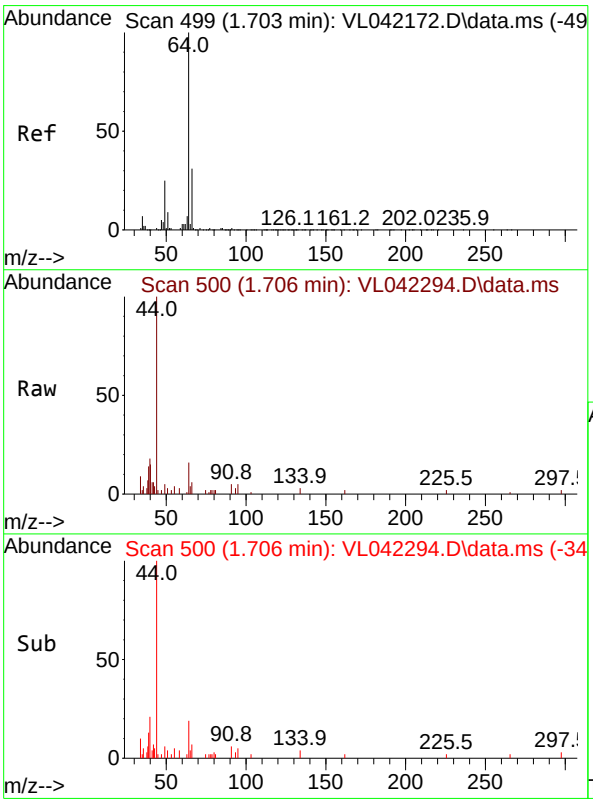

#6
Bromomethane
Concen: 0.044 ppbv
RT: 1.670 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-2-3242025

Tgt Ion: 94 Resp: 190

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 56.1 | 73.1 | 109.7# |

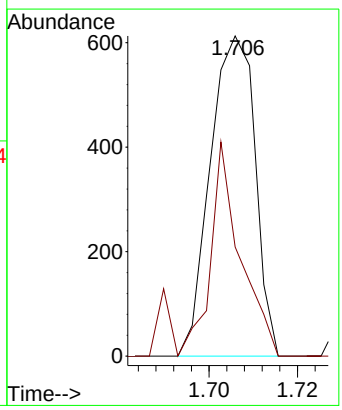


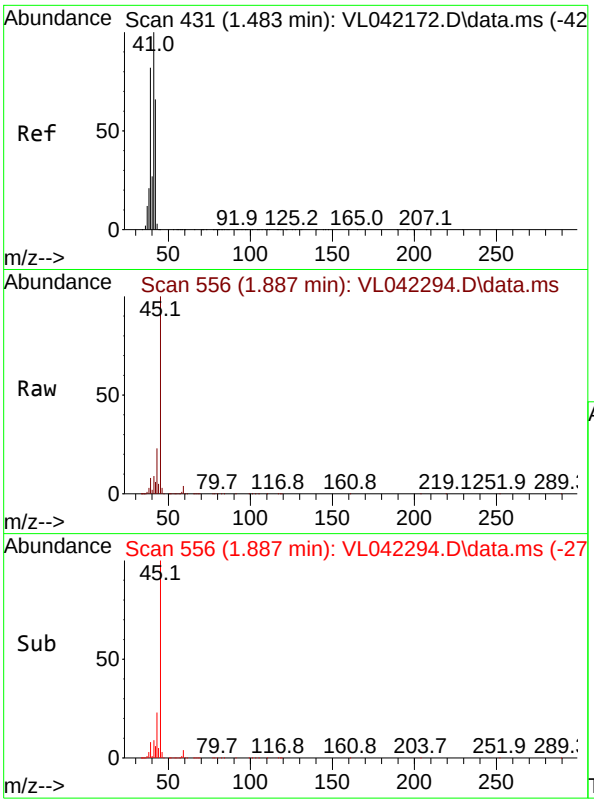




#7
Chloroethane
Concen: 0.112 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.003 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

Tgt Ion: 64 Resp: 431

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 34.1 | 25.2 | 37.8 |



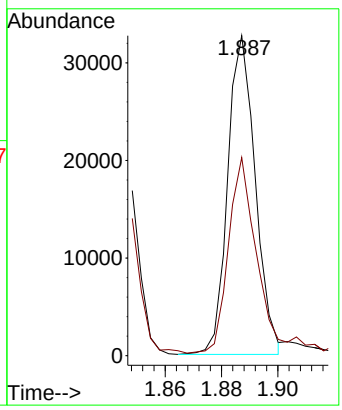


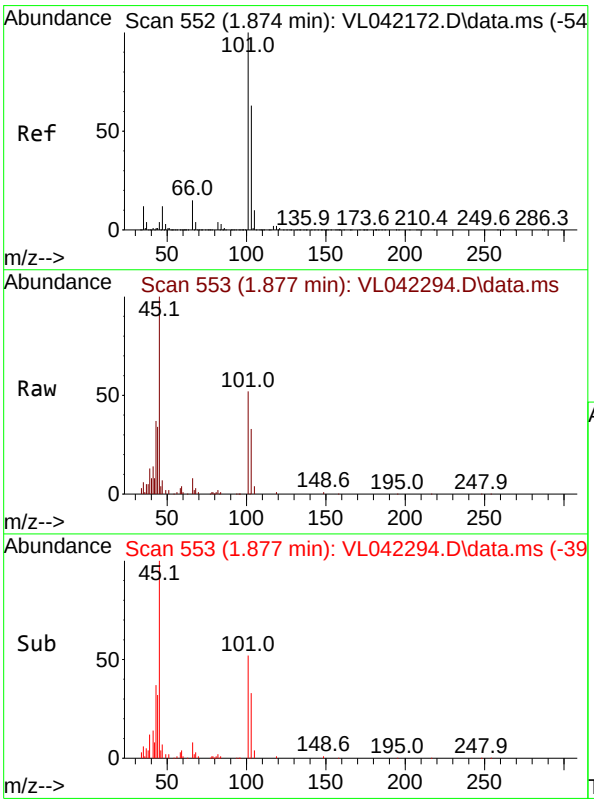

#9
Propene
Concen: 2.019 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.404 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-2-3242025

Tgt Ion: 41 Resp: 22225

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 65.5 | 55.4 | 83.2 |

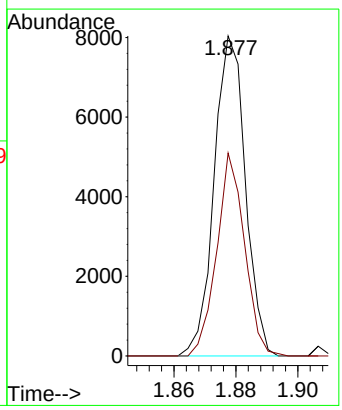


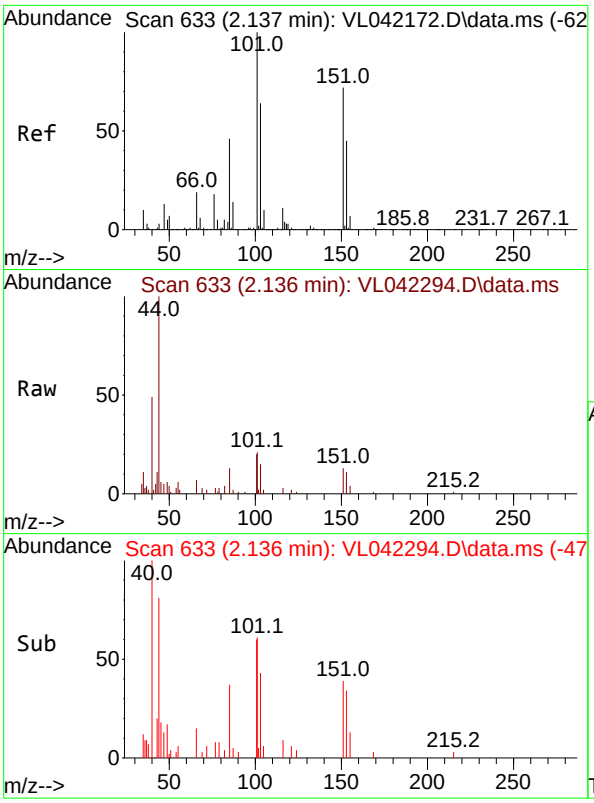




#11
Trichlorofluoromethane
Concen: 0.246 ppbv
RT: 1.877 min Scan# 553
Delta R.T. 0.003 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

Tgt Ion:101 Resp: 5632

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.4 | 50.2 | 75.2 |



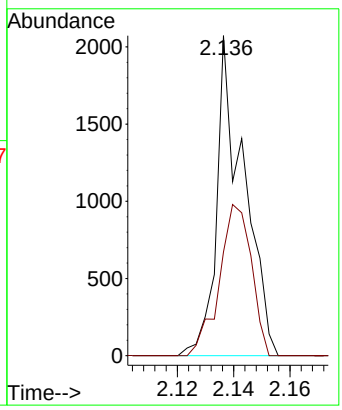


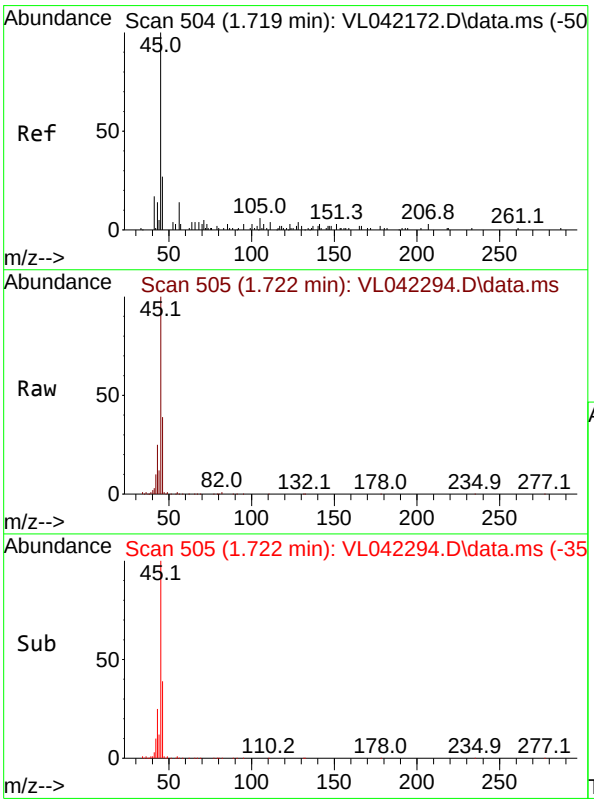

#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.074 ppbv
RT: 2.136 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-2-3242025

Tgt Ion:101 Resp: 1388

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 55.8 | 57.1 | 85.7# |

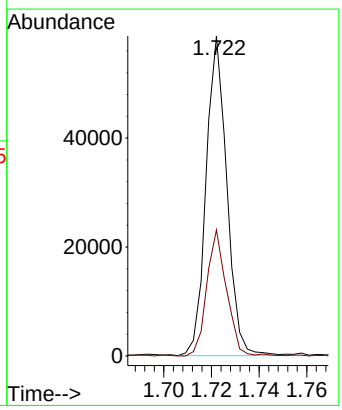


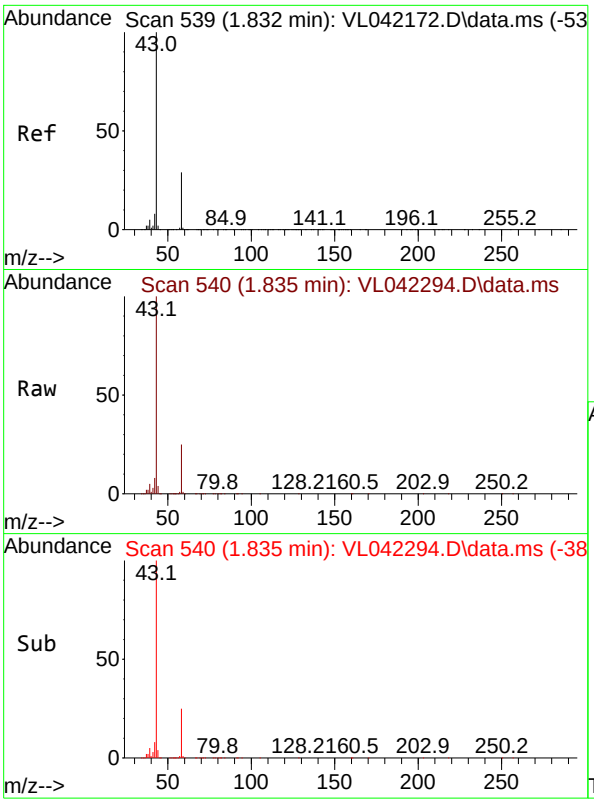




#13
Ethanol
Concen: 34.196 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

Tgt Ion: 45 Resp: 35576

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 38.1 | 20.2 | 80.8 |



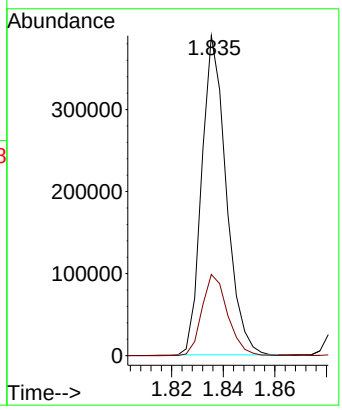


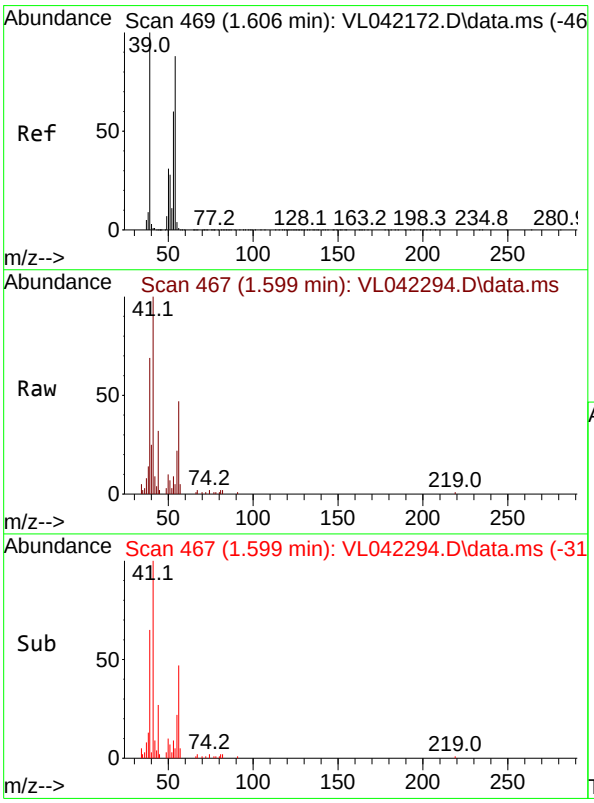

#15
Acetone
Concen: 11.567 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-2-3242025

Tgt Ion: 43 Resp: 257522

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 26.6 | 23.2 | 34.8 |

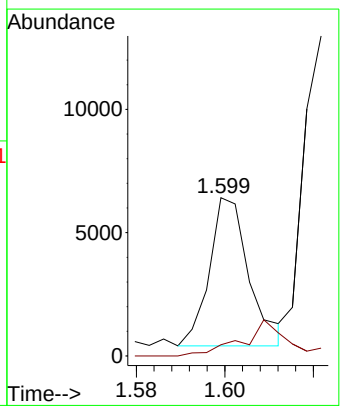


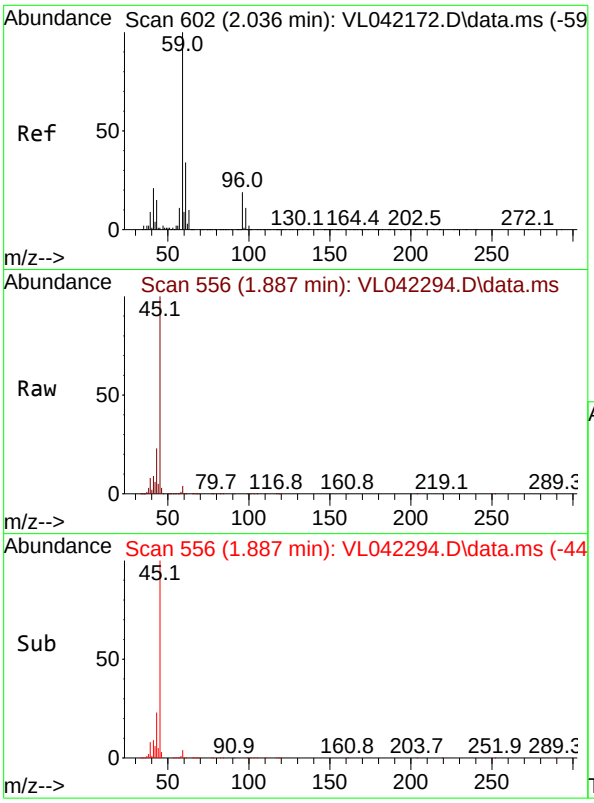




#16
1,3-Butadiene
Concen: 0.344 ppbv
RT: 1.599 min Scan# 467
Delta R.T. -0.007 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

Tgt Ion: 39 Resp: 3737

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 35.8 | 60.7 | 91.1# |



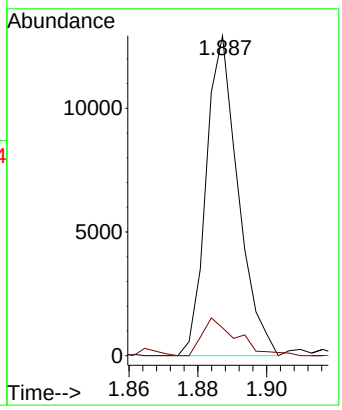


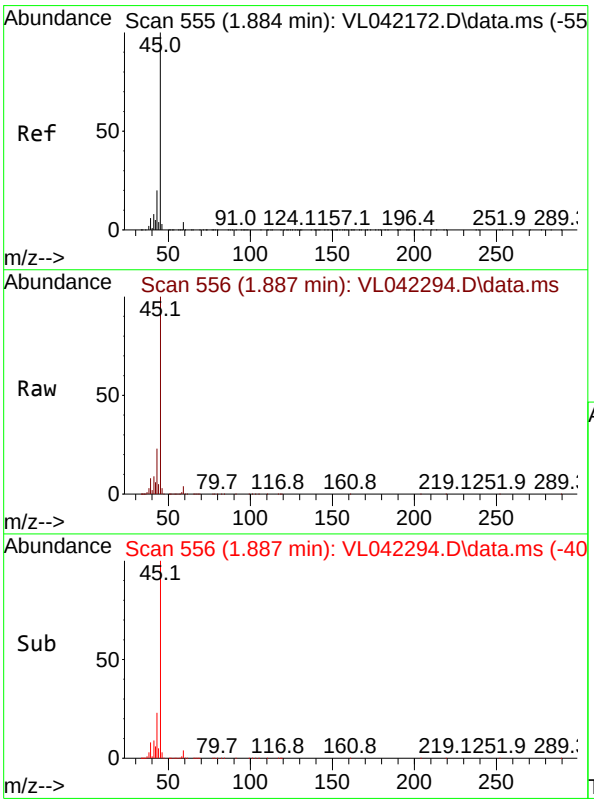

#17
tert-Butyl alcohol
Concen: 0.301 ppbv
RT: 1.887 min Scan# 5
Delta R.T. -0.149 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-2-3242025

Tgt Ion: 59 Resp: 8353

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 12.8 | 8.9 | 13.3 |

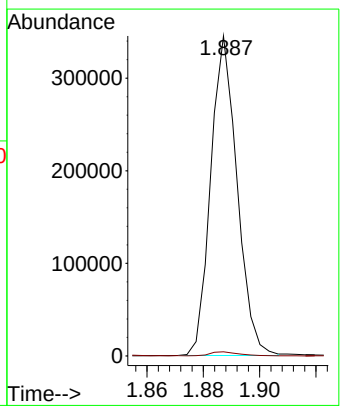


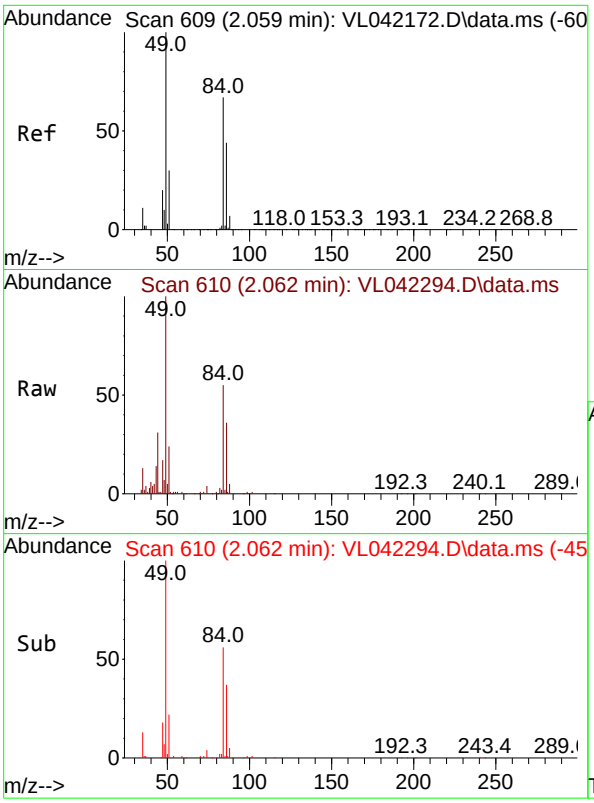




#19
Isopropyl Alcohol
Concen: 17.881 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

Tgt Ion: 45 Resp: 224606

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 1.5 | 36.9 | 55.3# |



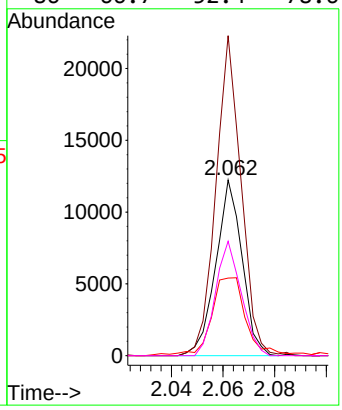


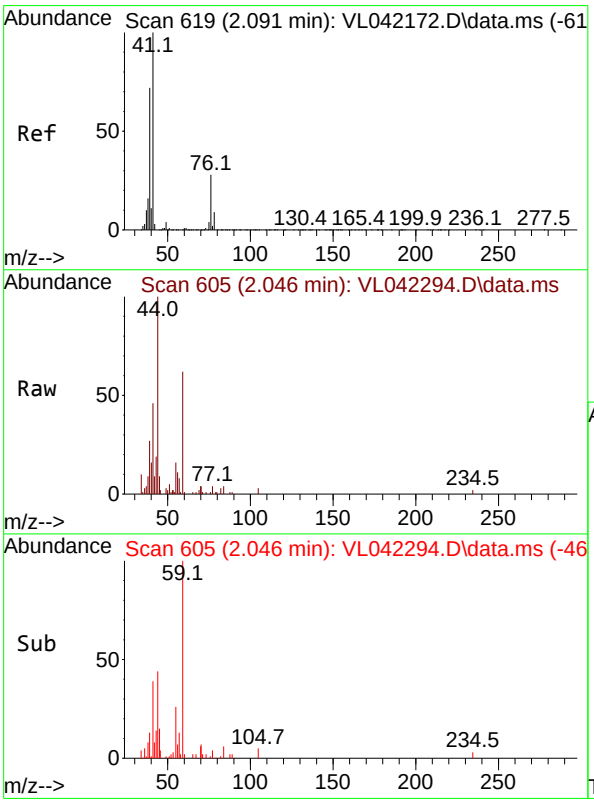

#20
Methylene Chloride
Concen: 1.047 ppbv
RT: 2.062 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-2-3242025

Tgt Ion: 84 Resp: 8683

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 182.2 | 120.2 | 180.4# |
| 51 | 43.8 | 37.4 | 56.0 |
| 86 | 66.7 | 52.4 | 78.6 |

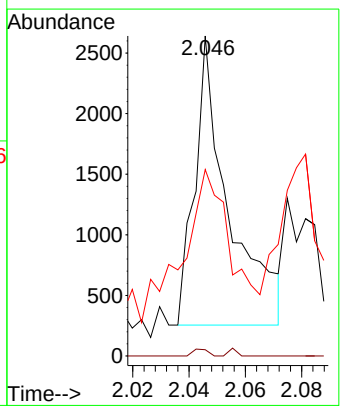


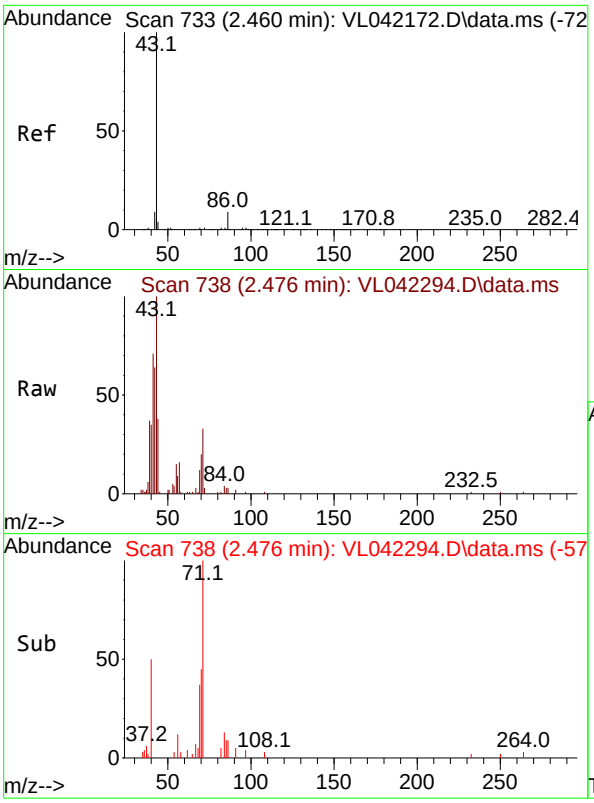




#21
Allyl Chloride
Concen: 0.127 ppbv
RT: 2.046 min Scan# 605
Delta R.T. -0.046 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

Tgt Ion: 41 Resp: 1988

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 0.0 | 24.1 | 36.1# |
| 39 | 82.8 | 61.1 | 91.7 |



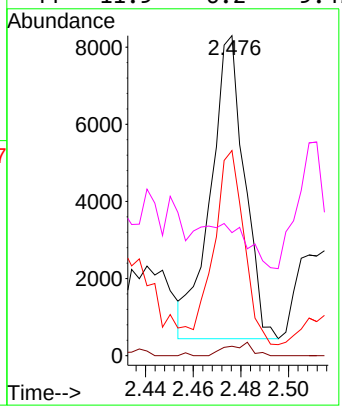


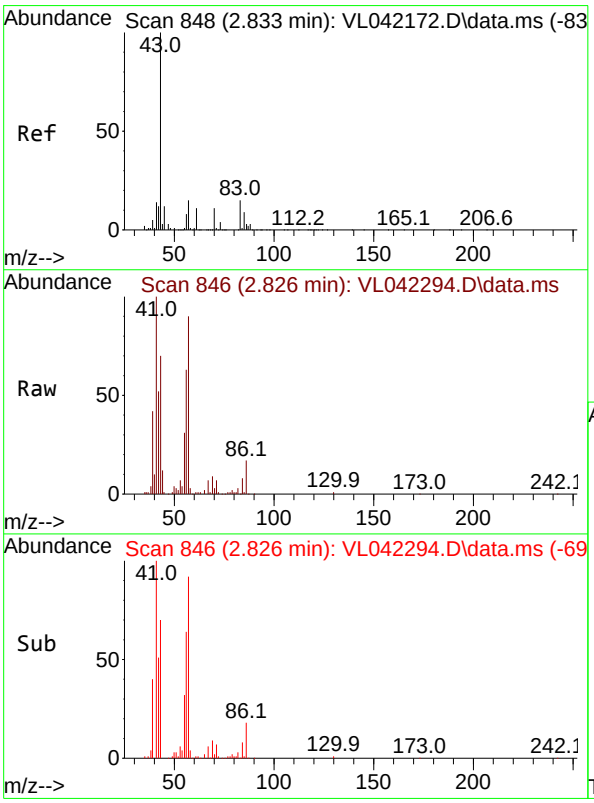

#23
Vinyl Acetate
Concen: 0.805 ppbv
RT: 2.476 min Scan# 7
Delta R.T. 0.016 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-2-3242025

Tgt Ion: 43 Resp: 7754

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 3.1 | 5.5 | 8.3# |
| 42 | 64.0 | 8.6 | 13.0# |
| 44 | 11.9 | 6.2 | 9.4# |

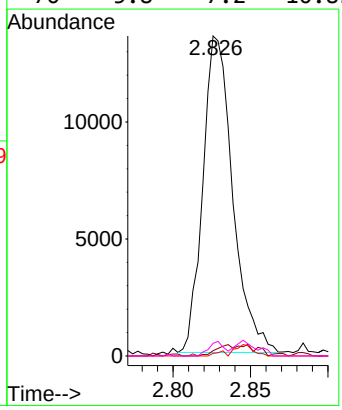


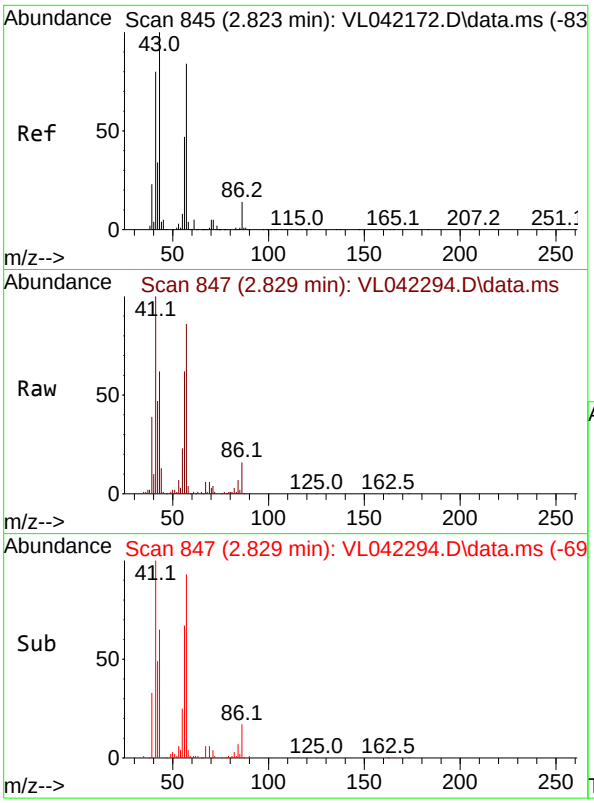




#25
Ethyl Acetate
Concen: 0.314 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.007 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

Tgt Ion: 43 Resp: 18155

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 5.6 | 8.2 | 12.2# |
| 61 | 2.7 | 7.3 | 10.9# |
| 70 | 5.8 | 7.2 | 10.8# |



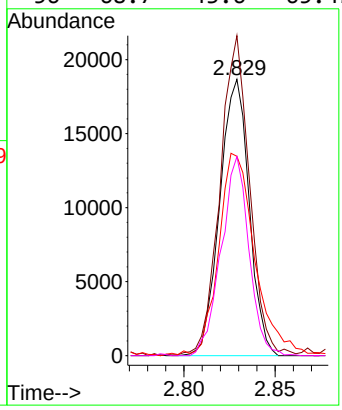


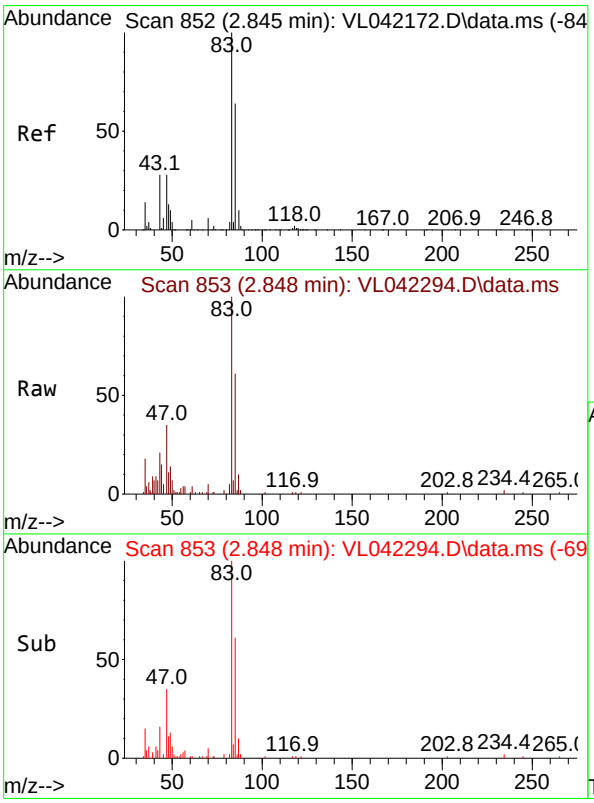

#26
Hexane
Concen: 0.937 ppbv
RT: 2.829 min Scan# 84
Delta R.T. 0.006 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-2-3242025

Tgt Ion: 57 Resp: 20910

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 120.6 | 76.6 | 114.8# |
| 43 | 88.4 | 207.8 | 311.8# |
| 56 | 68.7 | 43.6 | 65.4# |

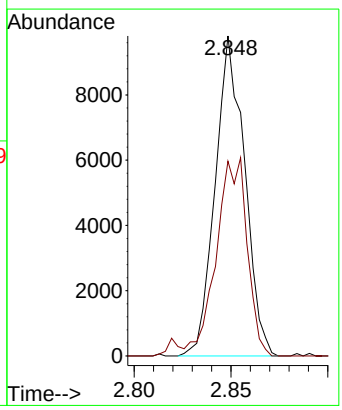


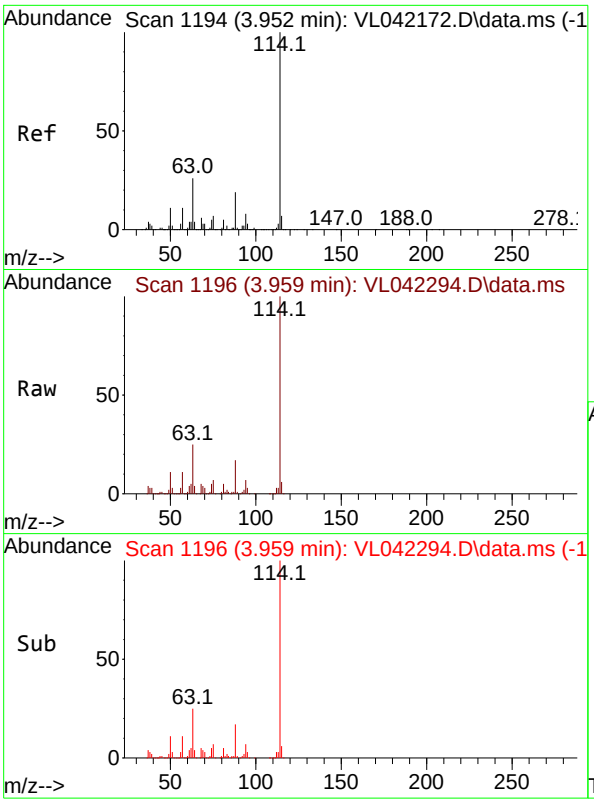




#29
Chloroform
Concen: 0.318 ppbv
RT: 2.848 min Scan# 853
Delta R.T. 0.003 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

Tgt Ion: 83 Resp: 10374

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 60.8 | 51.4 | 77.2 |



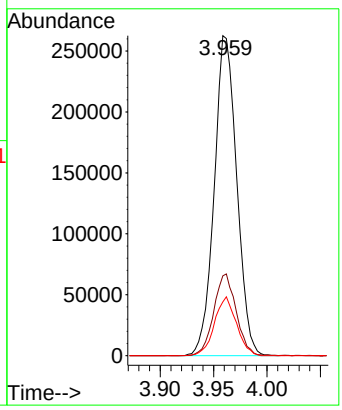


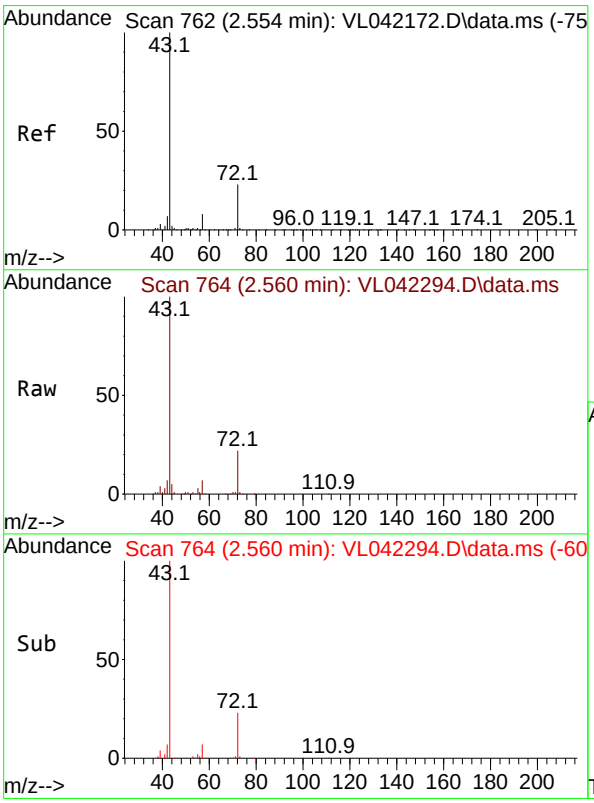

#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-2-3242025

Tgt Ion:114 Resp: 384747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.5 | 20.7 | 31.1 |
| 88 | 18.0 | 15.0 | 22.4 |

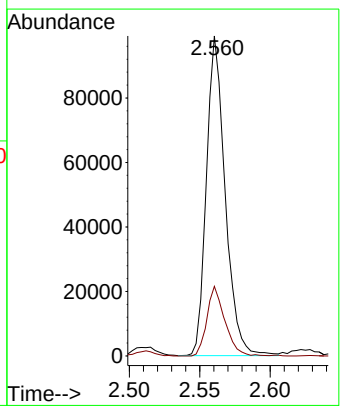


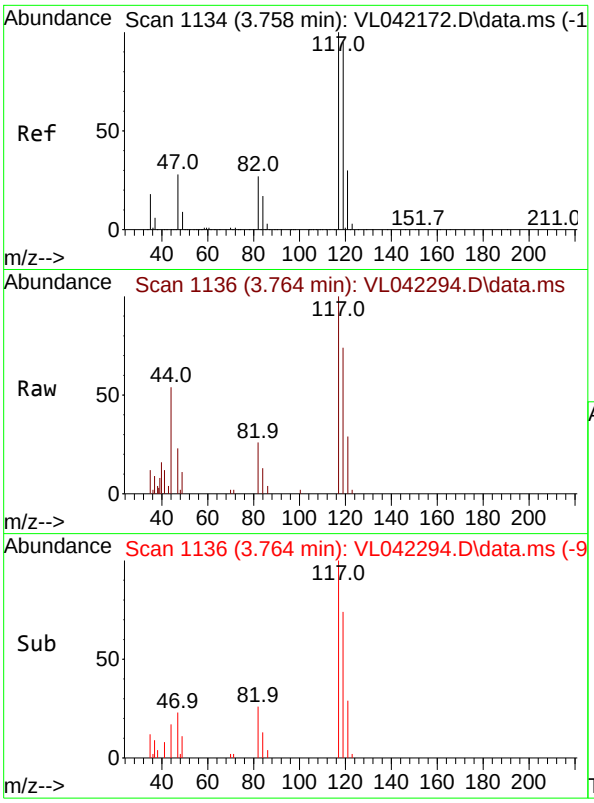




#34
2-Butanone
Concen: 3.296 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.006 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

Tgt Ion: 43 Resp: 91945

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 21.0 | 18.2 | 27.2 |



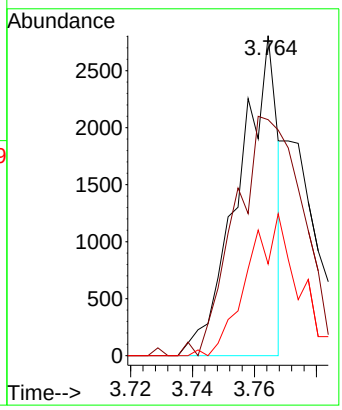


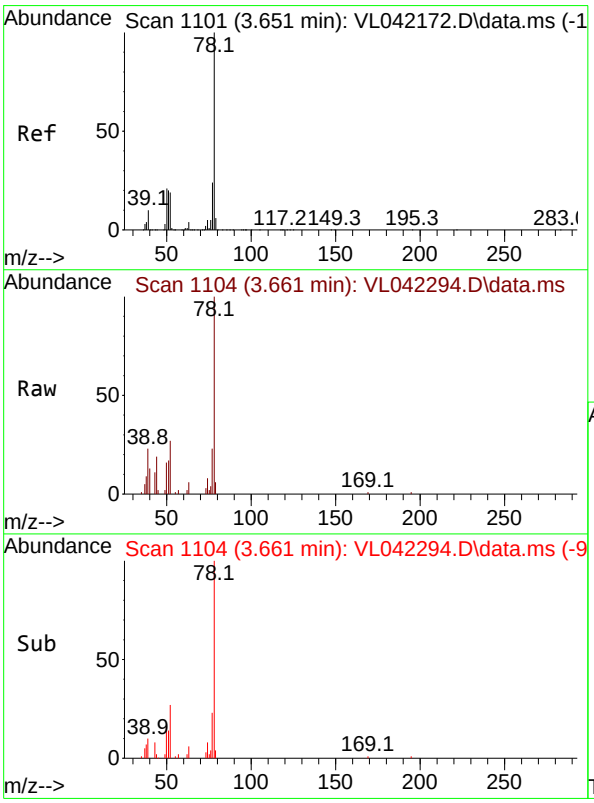

#35
Carbon Tetrachloride
Concen: 0.082 ppbv
RT: 3.764 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-2-3242025

Tgt Ion:117 Resp: 2461

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 73.7 | 76.2 | 114.2# |
| 121 | 28.6 | 24.2 | 36.4 |

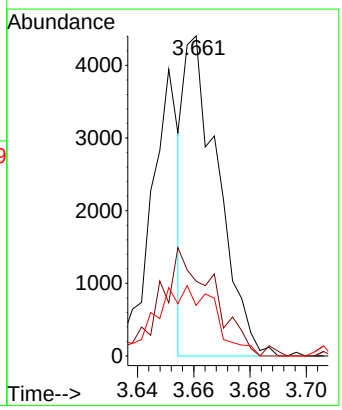


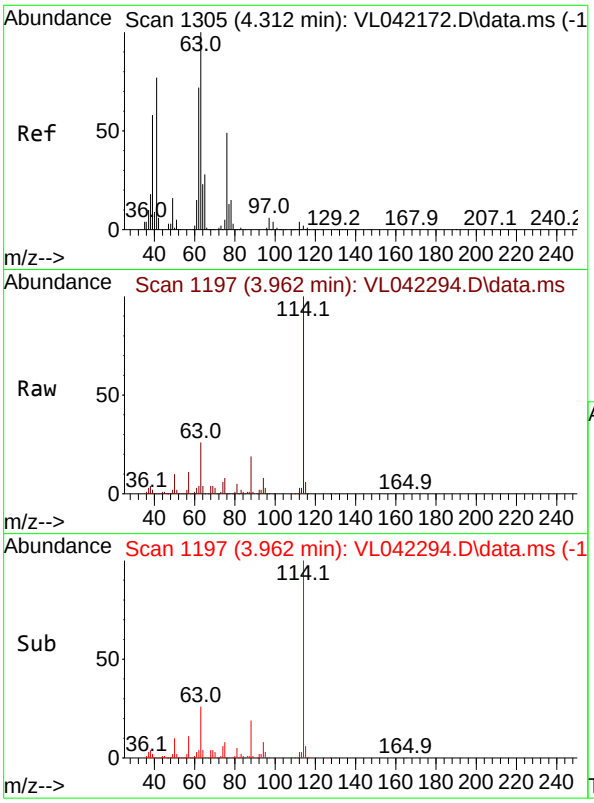




#36
Benzene
Concen: 0.097 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.009 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

Tgt Ion: 78 Resp: 3707

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 21.9 | 19.1 | 28.7 |
| 50 | 15.8 | 16.6 | 24.8# |



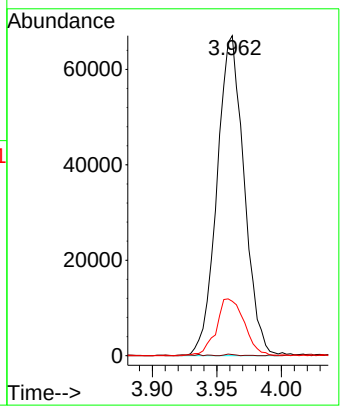


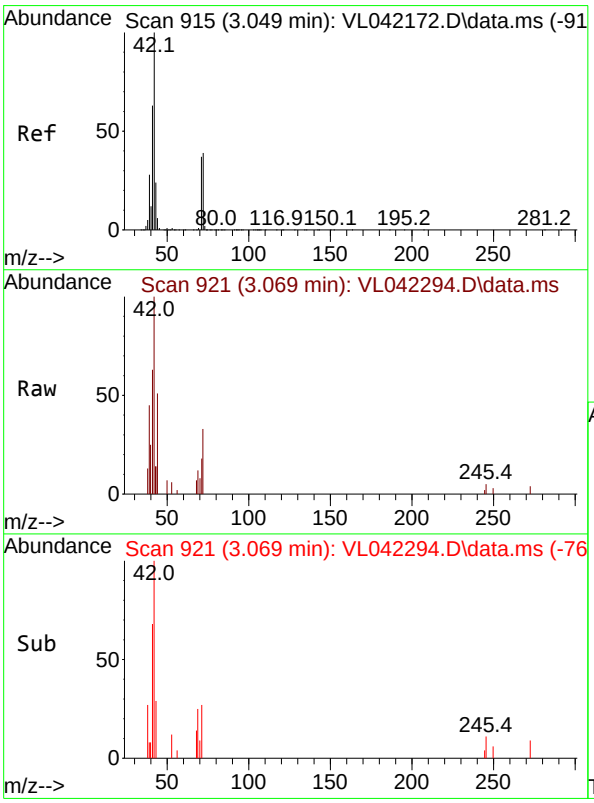

#39
1,2-Dichloropropane
Concen: 7.040 ppbv
RT: 3.962 min Scan# 11
Delta R.T. -0.350 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-2-3242025

Tgt Ion: 63 Resp: 97793

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 0.4 | 61.7 | 92.5# |
| 62 | 17.0 | 57.6 | 86.4# |

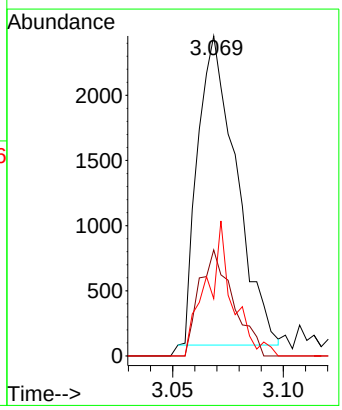


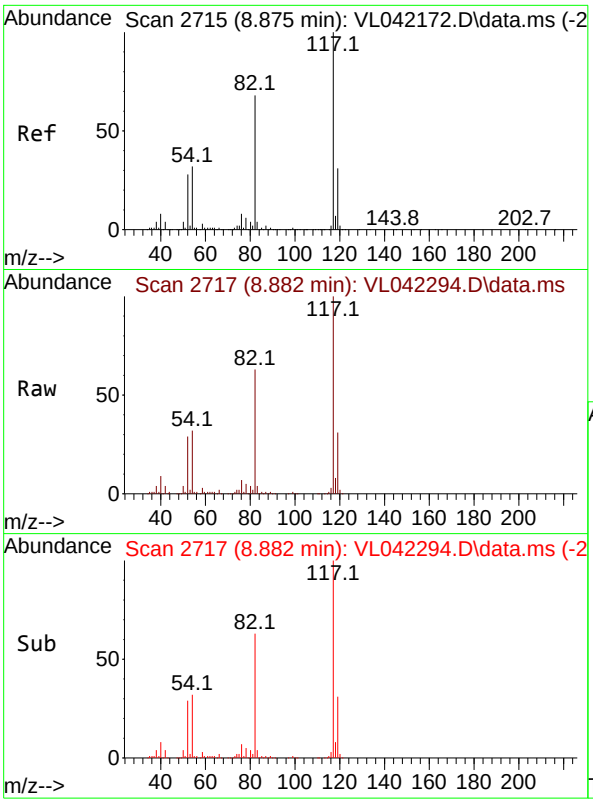




#41
Tetrahydrofuran
Concen: 0.178 ppbv
RT: 3.069 min Scan# 921
Delta R.T. 0.019 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

Tgt Ion: 42 Resp: 2861

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 30.3 | 31.4 | 47.0# |
| 71 | 29.6 | 30.2 | 45.4# |



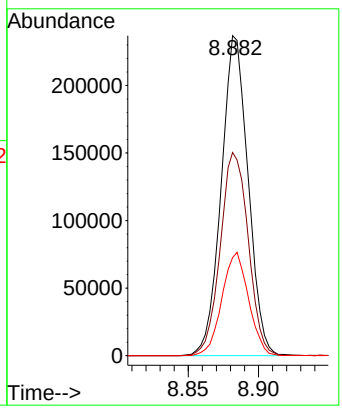


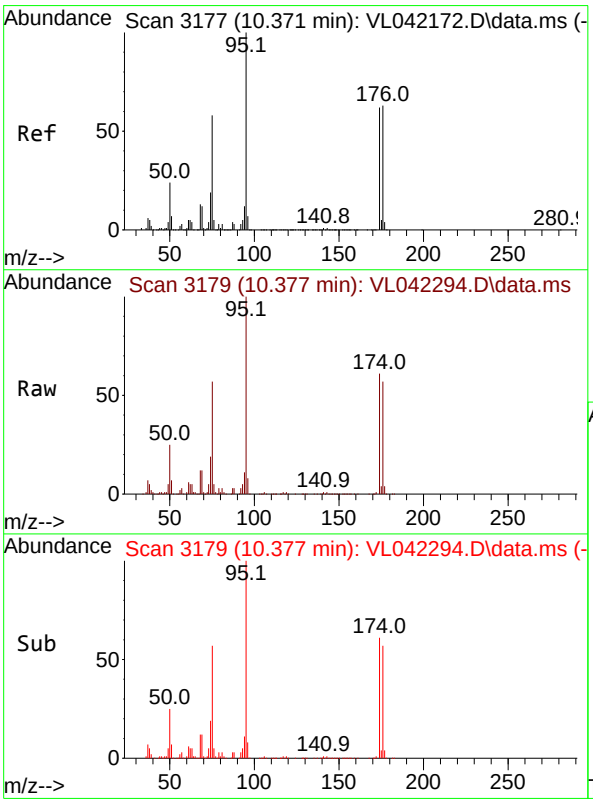

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-2-3242025

Tgt Ion:117 Resp: 314874

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 66.2 | 55.8 | 83.6 |
| 119 | 32.2 | 25.5 | 38.3 |

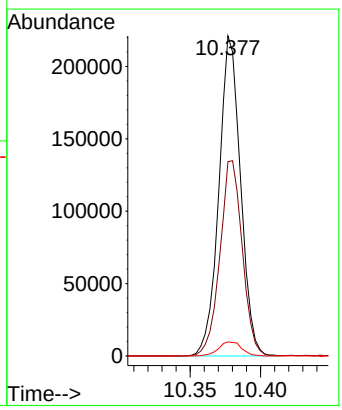



#68
1-Bromo-4-Fluorobenzene
Concen: 9.133 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.006 min
Lab File: VL042294.D
Acq: 09 Apr 2025 15:50

Tgt Ion: 95 Resp: 236151

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 63.3 | 50.6 | 76.0 |
| 175 | 4.7 | 3.8 | 5.6 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042295.D
Acq On : 09 Apr 2025 16:23
Operator : SY/MD
Sample : Q1665-09
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-2-3242025

Quant Time: Apr 10 01:46:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) Bromochloromethane | 2.787 | 49 | 157163 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.959 | 114 | 385586 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.882 | 117 | 326865 | 10.000 | ppbv | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95 | 260627 | 9.709 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 97.100% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.499 | 85 | 9767 | 0.421 | ppbv | | 99 |
| 3) Chlorodifluoromethane | 1.476 | 51 | 25214 | 1.064 | ppbv | # | 89 |
| 4) Chloromethane | 1.531 | 50 | 5476 | 0.577 | ppbv | | 100 |
| 7) Chloroethane | 1.703 | 64 | 148 | 0.039 | ppbv | # | 70 |
| 9) Propene | 1.560 | 41 | 18149 | 1.670 | ppbv | | 84 |
| 11) Trichlorofluoromethane | 1.877 | 101 | 5036 | 0.223 | ppbv | | 91 |
| 12) 1,1,2-Trichlorotrifluo... | 2.140 | 101 | 1123 | 0.061 | ppbv | | 94 |
| 13) Ethanol | 1.722 | 45 | 26305 | 25.610 | ppbv | | 83 |
| 15) Acetone | 1.835 | 43 | 140811 | 6.406 | ppbv | | 91 |
| 16) 1,3-Butadiene | 1.599 | 39 | 2235 | 0.208 | ppbv | # | 52 |
| 17) tert-Butyl alcohol | 1.884 | 59 | 9877 | 0.361 | ppbv | | 99 |
| 19) Isopropyl Alcohol | 1.887 | 45 | 262397 | 21.158 | ppbv | # | 33 |
| 20) Methylene Chloride | 2.062 | 84 | 9600 | 1.173 | ppbv | | 93 |
| 21) Allyl Chloride | 2.039 | 41 | 725 | 0.047 | ppbv | # | 24 |
| 23) Vinyl Acetate | 2.470 | 43 | 9581 | 1.007 | ppbv | # | 49 |
| 25) Ethyl Acetate | 2.826 | 43 | 39156 | 0.686 | ppbv | # | 83 |
| 26) Hexane | 2.826 | 57 | 42387 | 1.924 | ppbv | # | 35 |
| 29) Chloroform | 2.845 | 83 | 1821 | 0.056 | ppbv | # | 82 |
| 34) 2-Butanone | 2.560 | 43 | 89072 | 3.186 | ppbv | | 97 |
| 35) Carbon Tetrachloride | 3.758 | 117 | 1368 | 0.045 | ppbv | # | 92 |
| 36) Benzene | 3.654 | 78 | 11286 | 0.295 | ppbv | | 92 |
| 39) 1,2-Dichloropropane | 3.959 | 63 | 97589 | 7.010 | ppbv | # | 22 |
| 41) Tetrahydrofuran | 3.065 | 42 | 2040 | 0.127 | ppbv | # | 88 |
| 44) 2,2,4-Trimethylpentane | 4.645 | 57 | 2338 | 0.036 | ppbv | # | 1 |
| 53) Toluene | 6.933 | 91 | 17473 | 0.386 | ppbv | | 97 |
| 57) Chlorobenzene | 8.924 | 112 | 6308 | 0.203 | ppbv | # | 76 |
| 58) Ethyl Benzene | 9.354 | 91 | 3072 | 0.053 | ppbv | # | 82 |
| 59) m/p-Xylene | 9.552 | 91 | 1588 | 0.034 | ppbv | # | 31 |
| 60) o-Xylene | 9.963 | 91 | 4768 | 0.103 | ppbv | | 97 |
| 62) Isopropylbenzene | 10.807 | 105 | 46203 | 0.665 | ppbv | # | 50 |
| 71) 2-Chlorotoluene | 10.856 | 91 | 13101 | 0.243 | ppbv | # | 48 |
| 74) 1,2,4-Trimethylbenzene | 11.536 | 105 | 3557 | 0.061 | ppbv | # | 67 |

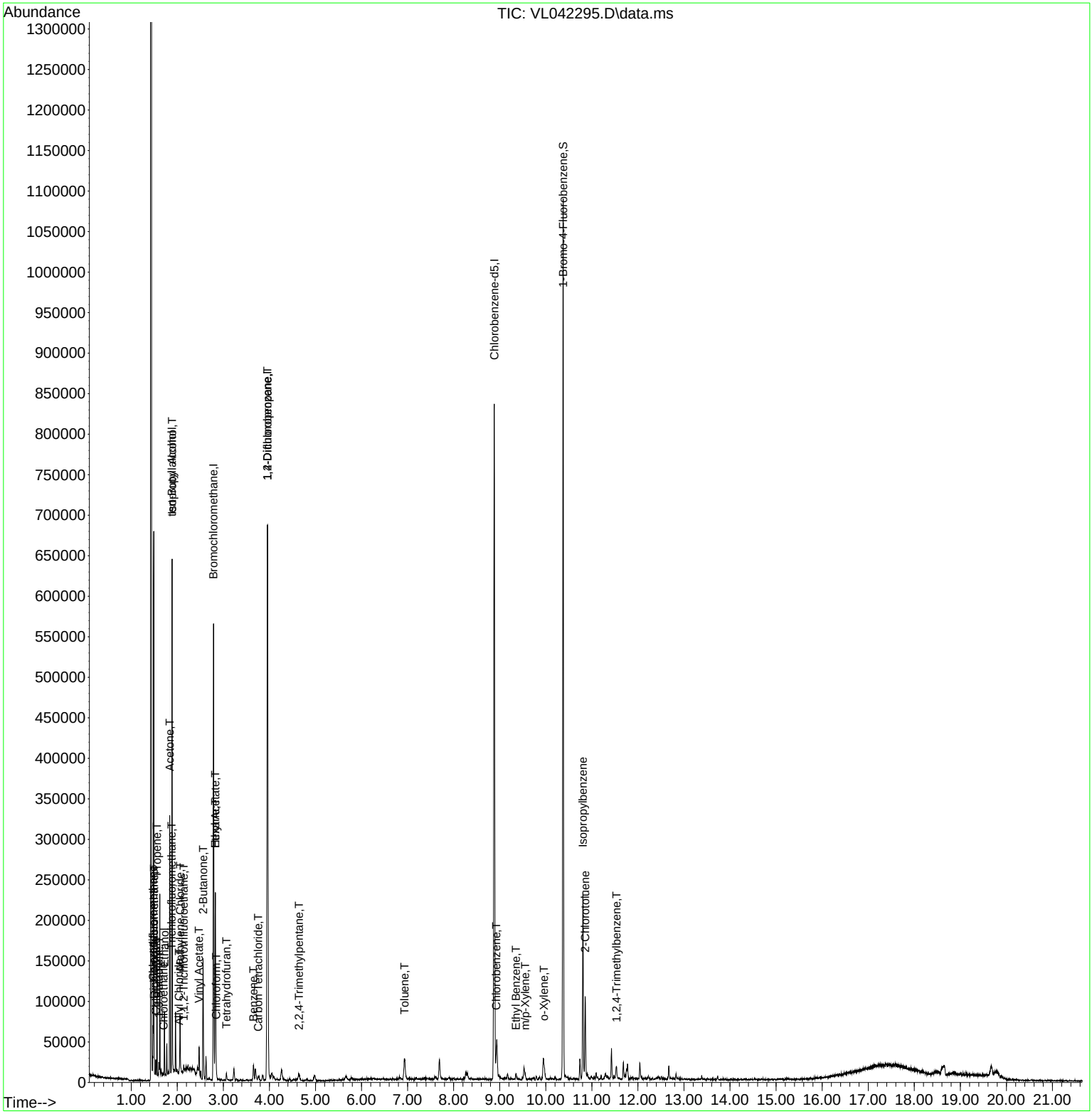
(#) = qualifier out of range (m) = manual integration (+) = signals summed

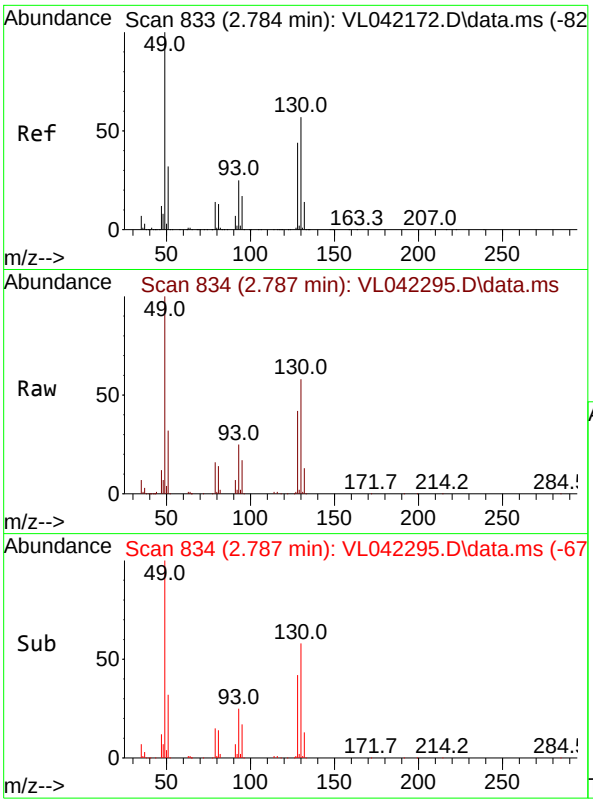
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042295.D
Acq On : 09 Apr 2025 16:23
Operator : SY/MD
Sample : Q1665-09
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-2-3242025

Quant Time: Apr 10 01:46:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration



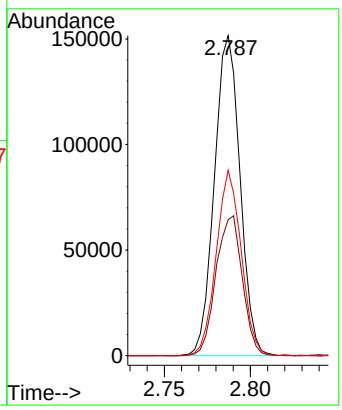


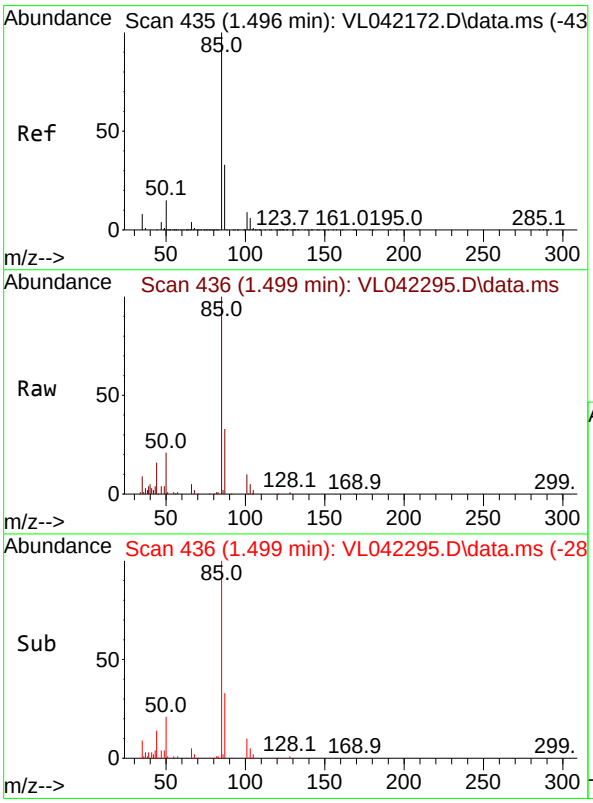

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-2-3242025

Tgt Ion: 49 Resp: 157163

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 44.9 | 22.9 | 68.5 |
| 130 | 56.4 | 28.8 | 86.4 |

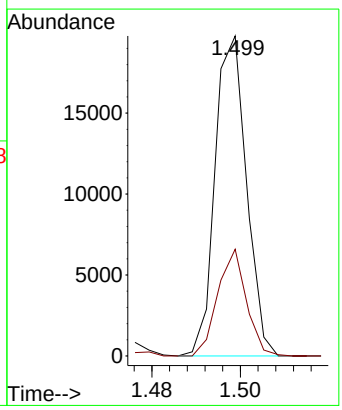


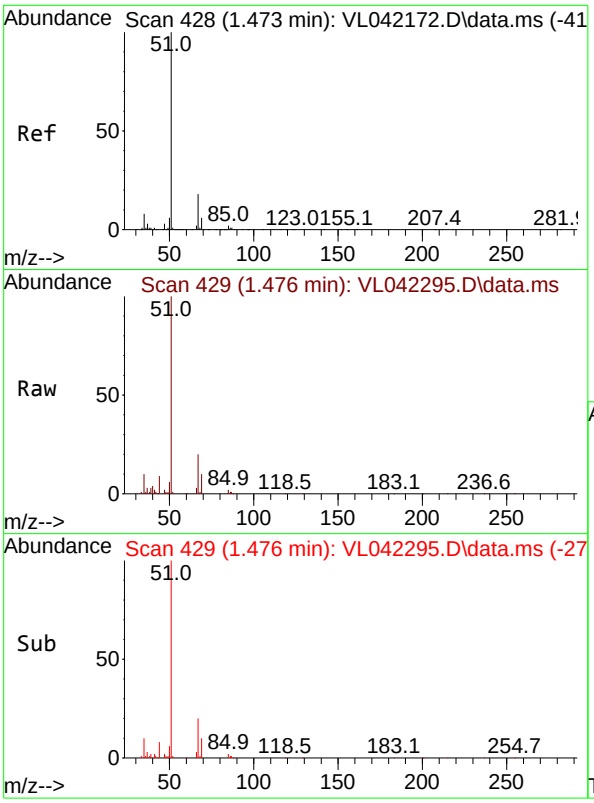




#2
Dichlorodifluoromethane
Concen: 0.421 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Tgt Ion: 85 Resp: 9767

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.4 | 26.1 | 39.1 |



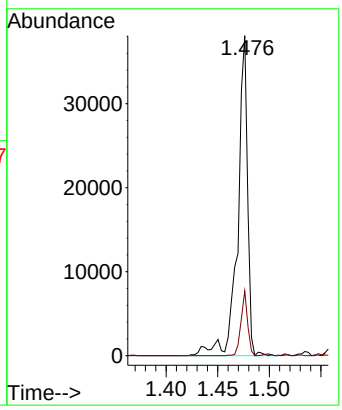


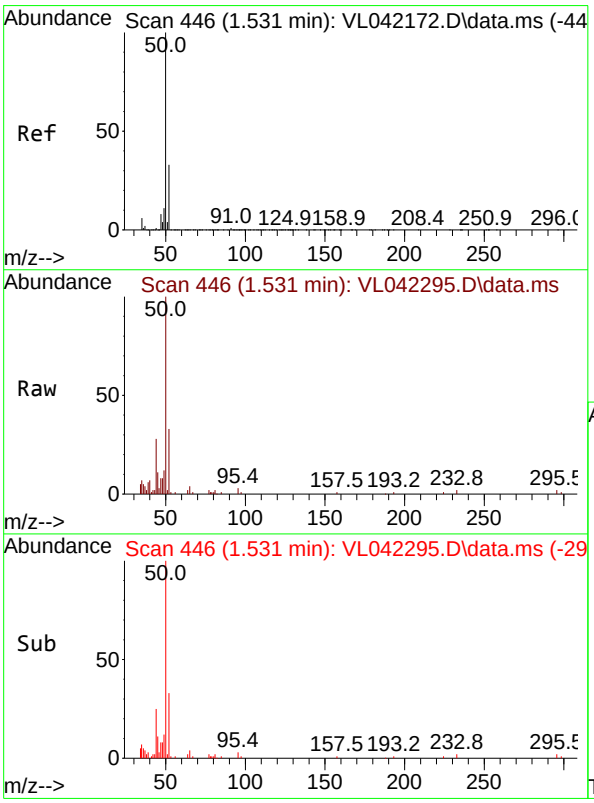

#3
Chlorodifluoromethane
Concen: 1.064 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-2-3242025

Tgt Ion: 51 Resp: 25214

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 13.7 | 15.0 | 22.6# |

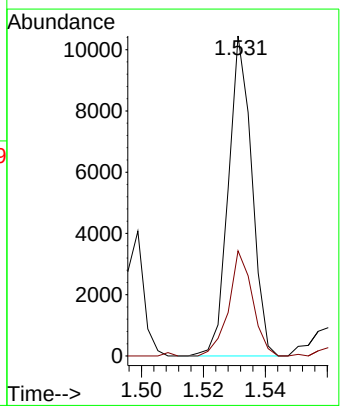


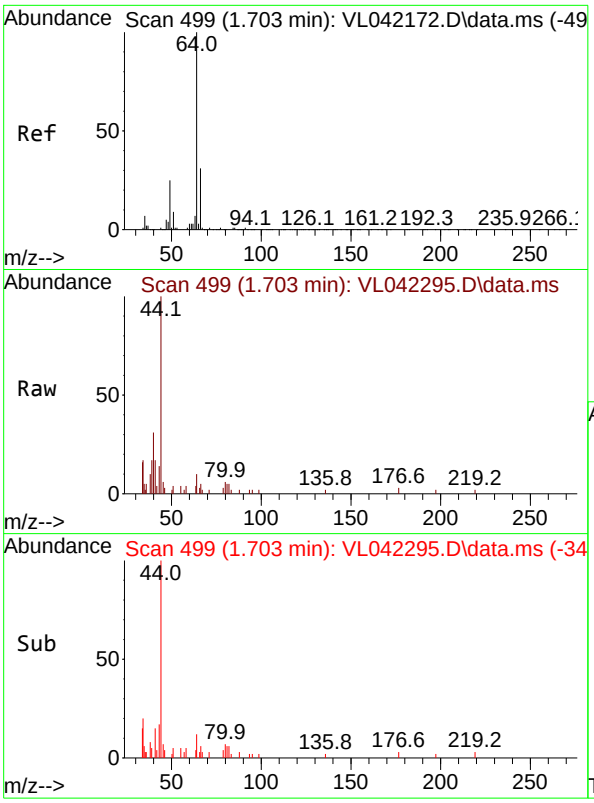




#4
Chloromethane
Concen: 0.577 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Tgt Ion: 50 Resp: 5476

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.9 | 26.1 | 39.1 |



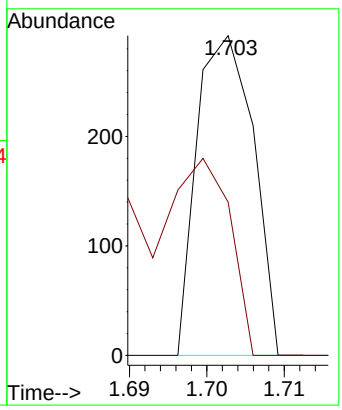


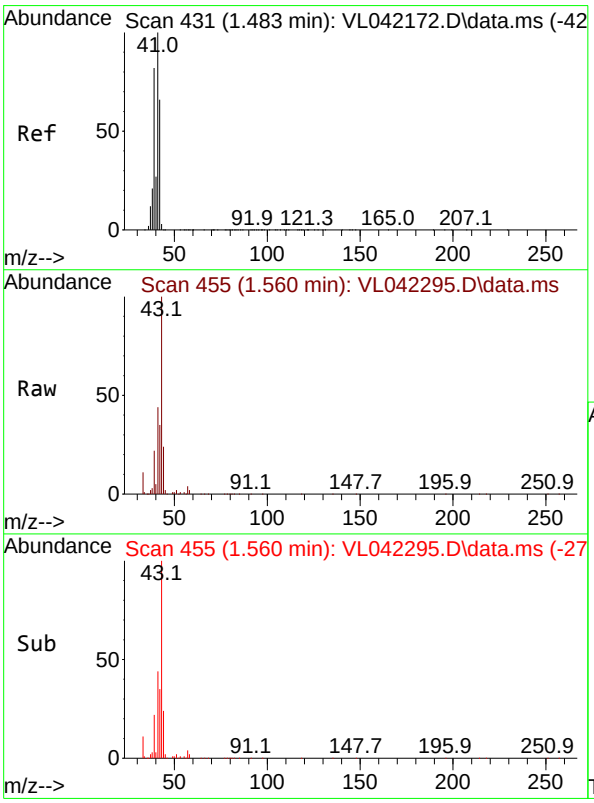

#7
Chloroethane
Concen: 0.039 ppbv
RT: 1.703 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-2-3242025

Tgt Ion: 64 Resp: 148

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 47.9 | 25.2 | 37.8# |

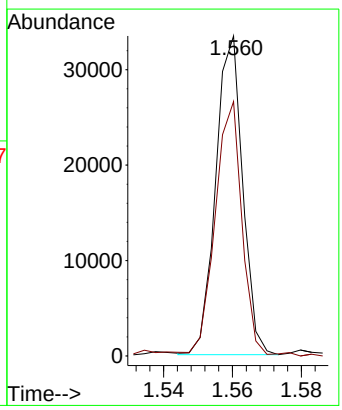


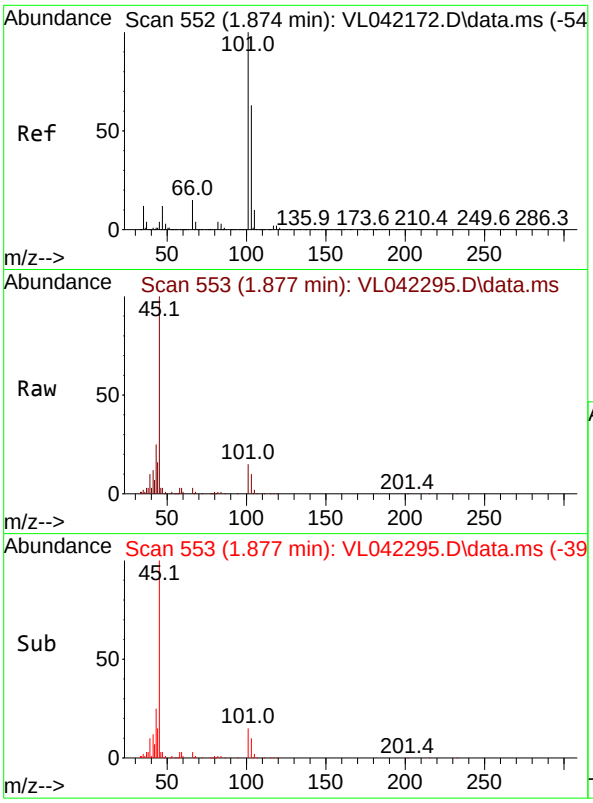




#9
Propene
Concen: 1.670 ppbv
RT: 1.560 min Scan# 455
Delta R.T. 0.077 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Tgt Ion: 41 Resp: 18149

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 82.3 | 55.4 | 83.2 |



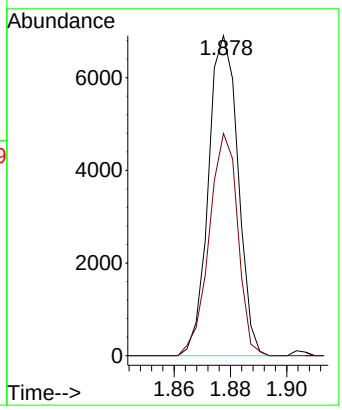


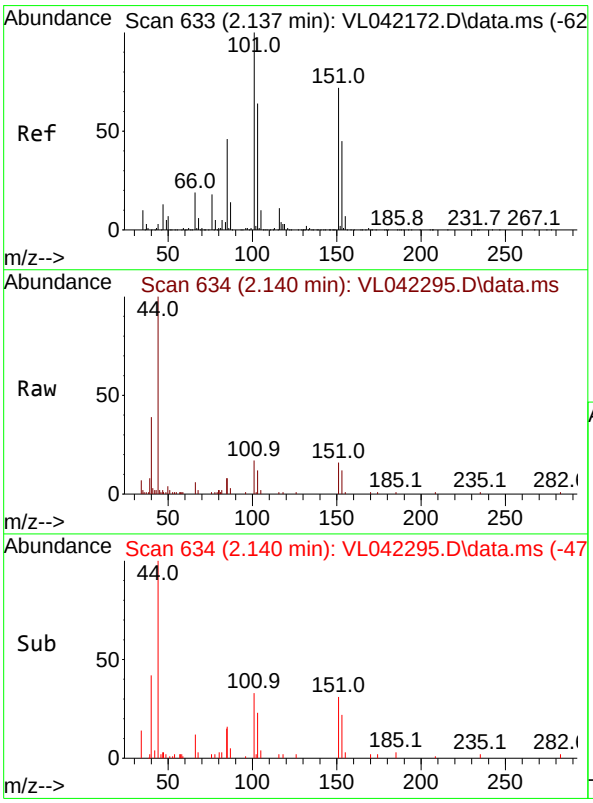

#11
Trichlorofluoromethane
Concen: 0.223 ppbv
RT: 1.877 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-2-3242025

Tgt Ion:101 Resp: 5036

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 69.5 | 50.2 | 75.2 |

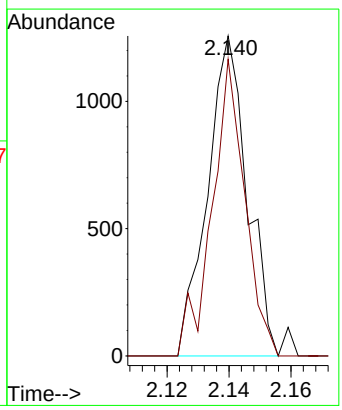


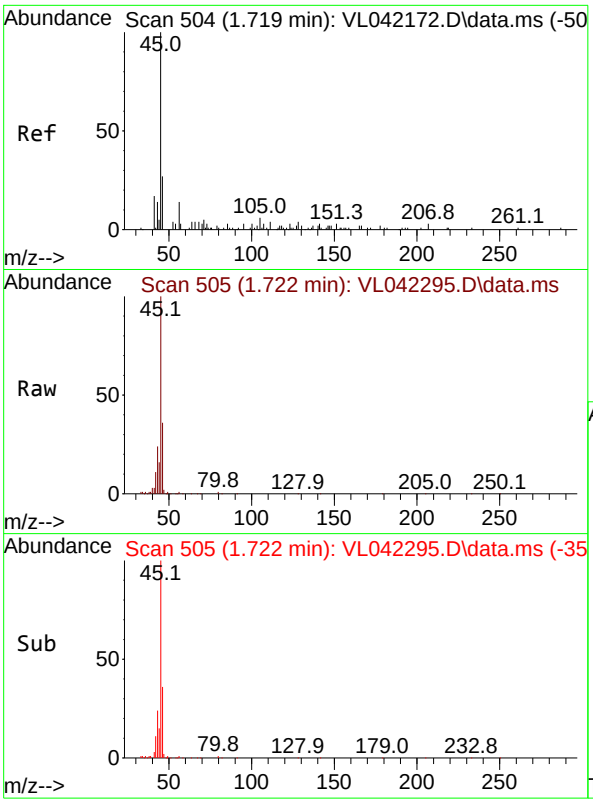




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.061 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Tgt Ion:101 Resp: 1123

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 76.3 | 57.1 | 85.7 |



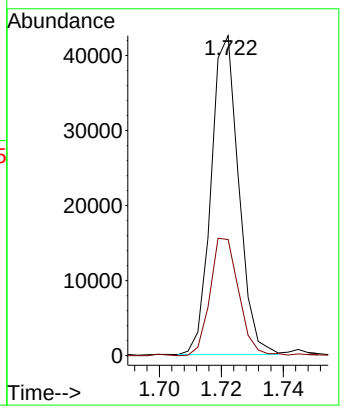


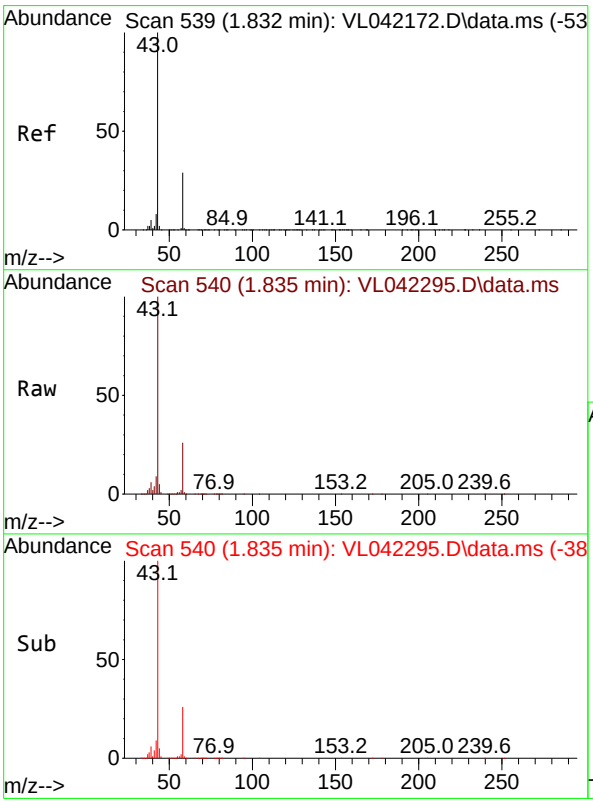

#13
Ethanol
Concen: 25.610 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-2-3242025

Tgt Ion: 45 Resp: 26305

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 39.0 | 20.2 | 80.8 |

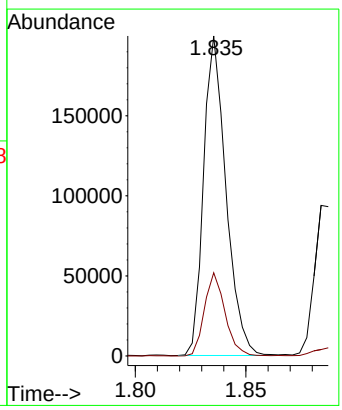


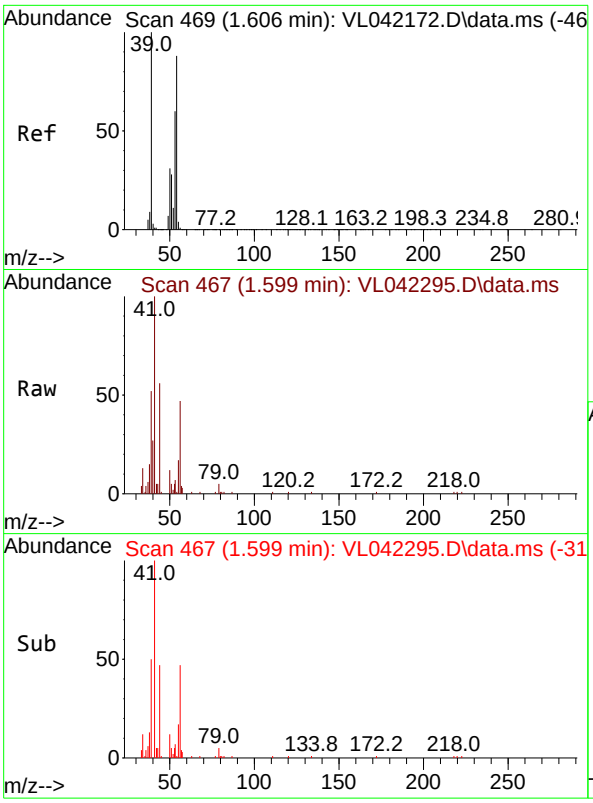




#15
Acetone
Concen: 6.406 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Tgt Ion: 43 Resp: 140811

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 24.0 | 23.2 | 34.8 |



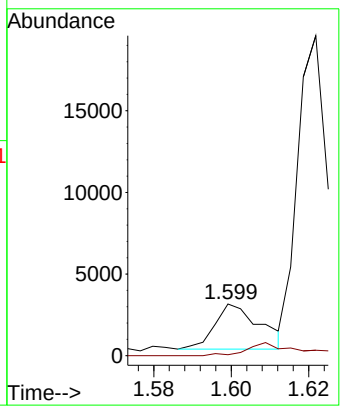


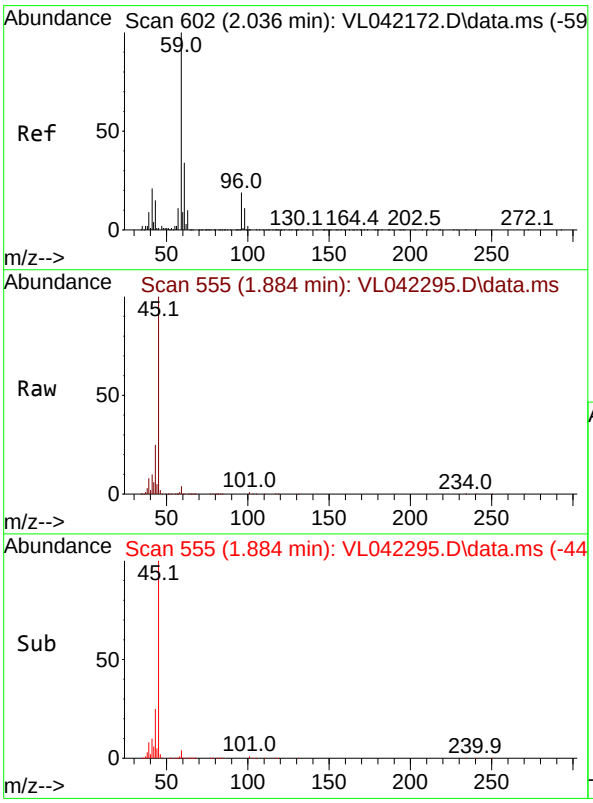

#16
1,3-Butadiene
Concen: 0.208 ppbv
RT: 1.599 min Scan# 4
Delta R.T. -0.007 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-2-3242025

Tgt Ion: 39 Resp: 2235

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 35.0 | 60.7 | 91.1# |

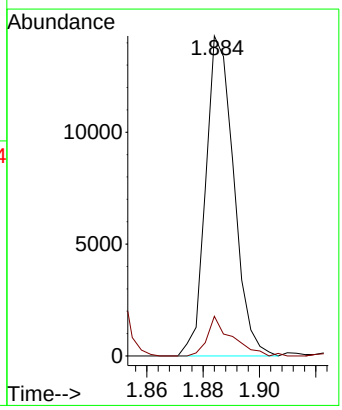


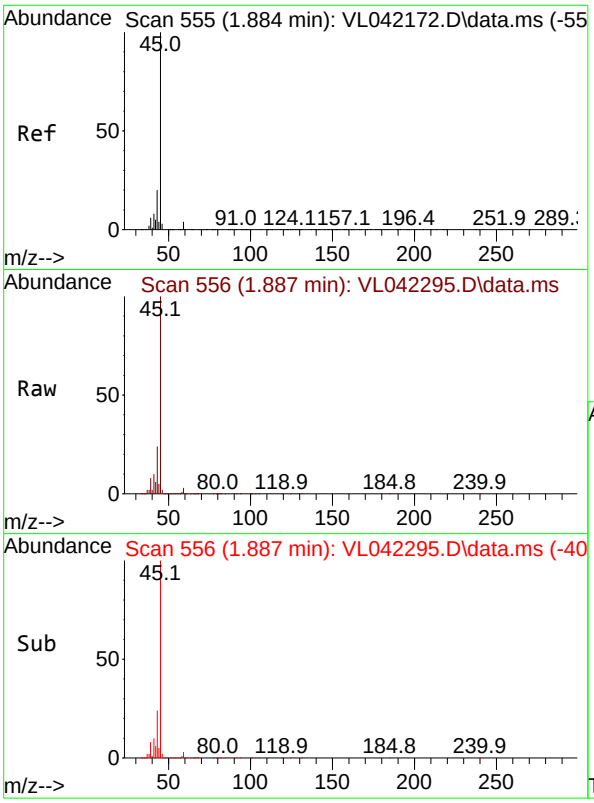




#17
tert-Butyl alcohol
Concen: 0.361 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.152 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Tgt Ion: 59 Resp: 9877

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.9 | 8.9 | 13.3 |



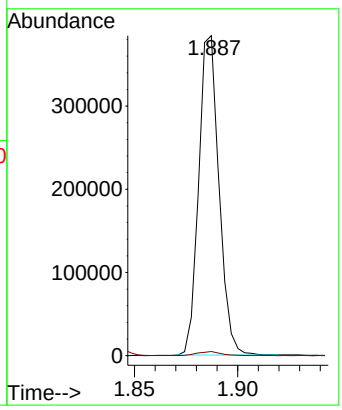


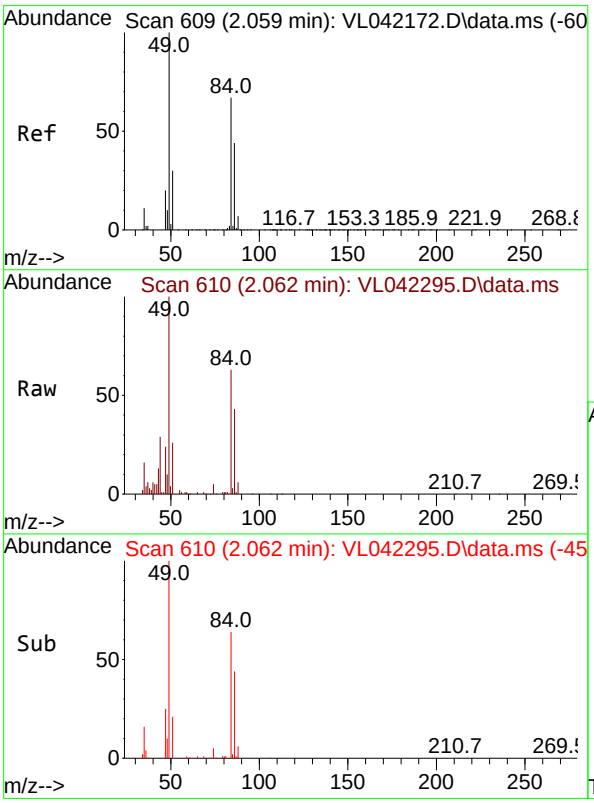

#19
Isopropyl Alcohol
Concen: 21.158 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-2-3242025

Tgt Ion: 45 Resp: 262397

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 1.6 | 36.9 | 55.3# |

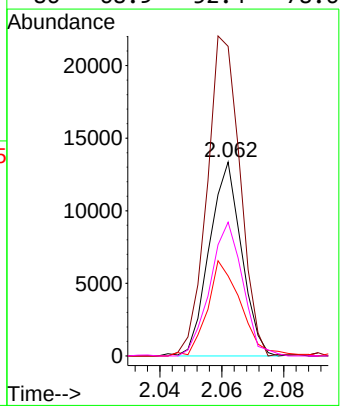


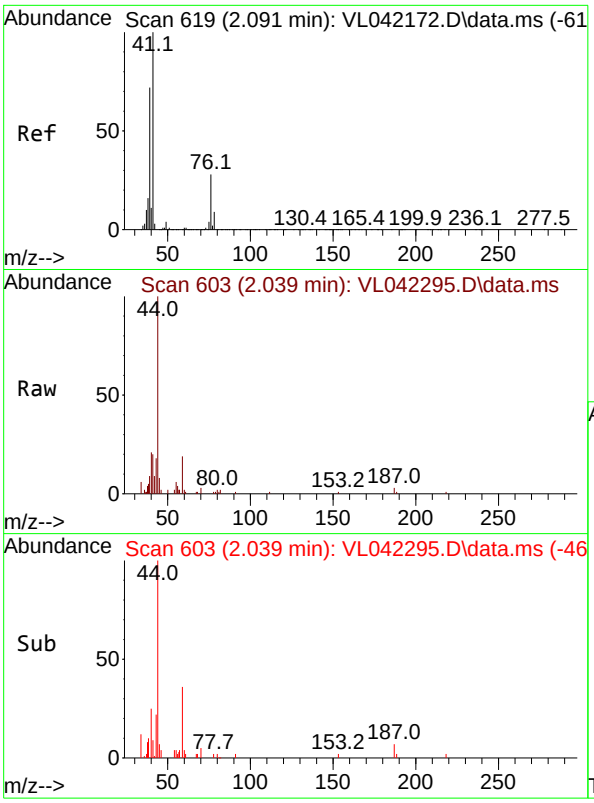




#20
Methylene Chloride
Concen: 1.173 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Tgt Ion: 84 Resp: 9600

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 158.7 | 120.2 | 180.4 |
| 51 | 39.5 | 37.4 | 56.0 |
| 86 | 68.9 | 52.4 | 78.6 |



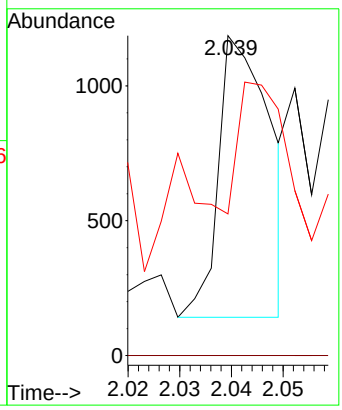


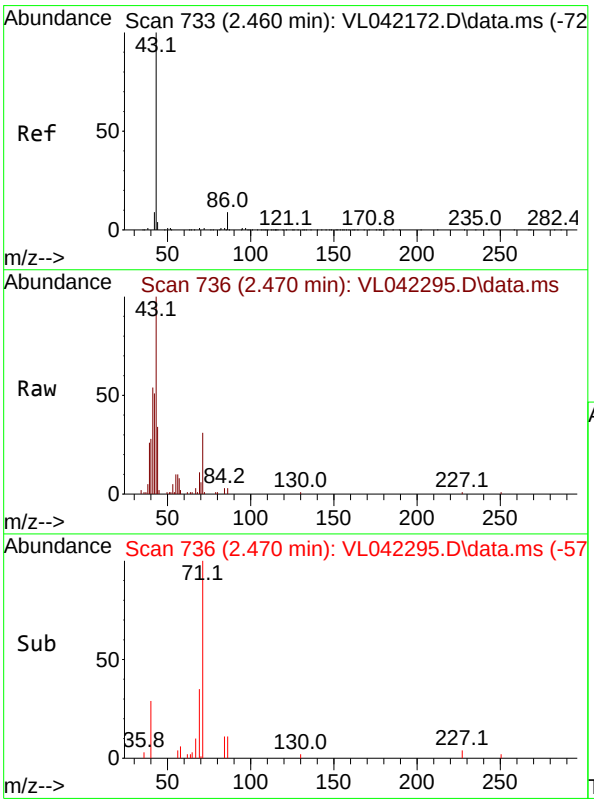

#21
Allyl Chloride
Concen: 0.047 ppbv
RT: 2.039 min Scan# 6
Delta R.T. -0.052 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-2-3242025

Tgt Ion: 41 Resp: 725

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 6.1 | 24.1 | 36.1# |
| 39 | 0.0 | 61.1 | 91.7# |

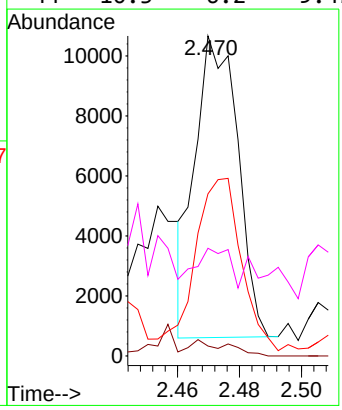


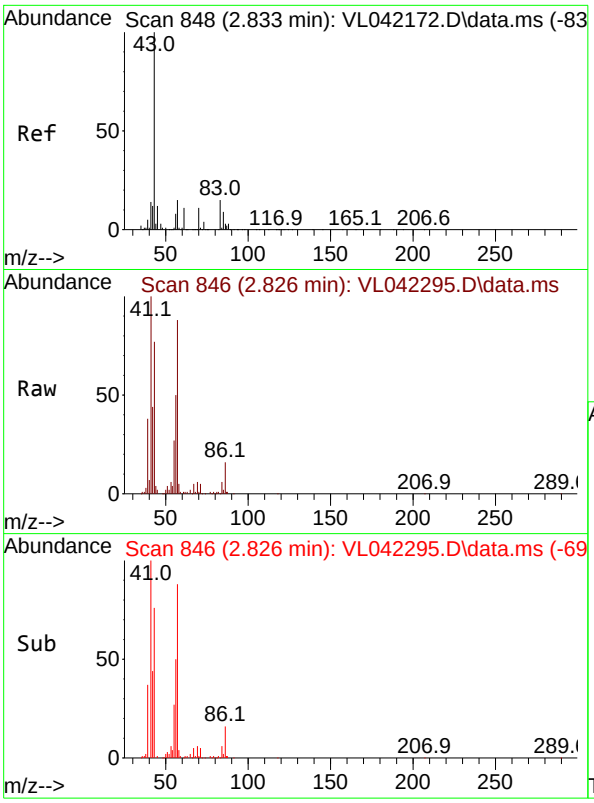




#23
Vinyl Acetate
Concen: 1.007 ppbv
RT: 2.470 min Scan# 736
Delta R.T. 0.010 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Tgt Ion: 43 Resp: 9581

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 3.3 | 5.5 | 8.3# |
| 42 | 52.1 | 8.6 | 13.0# |
| 44 | 10.3 | 6.2 | 9.4# |



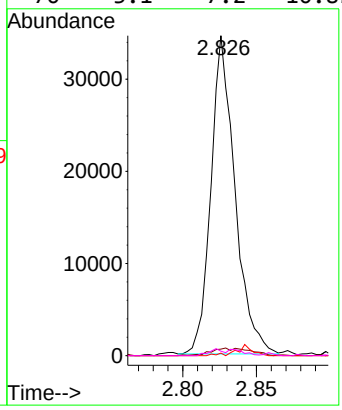


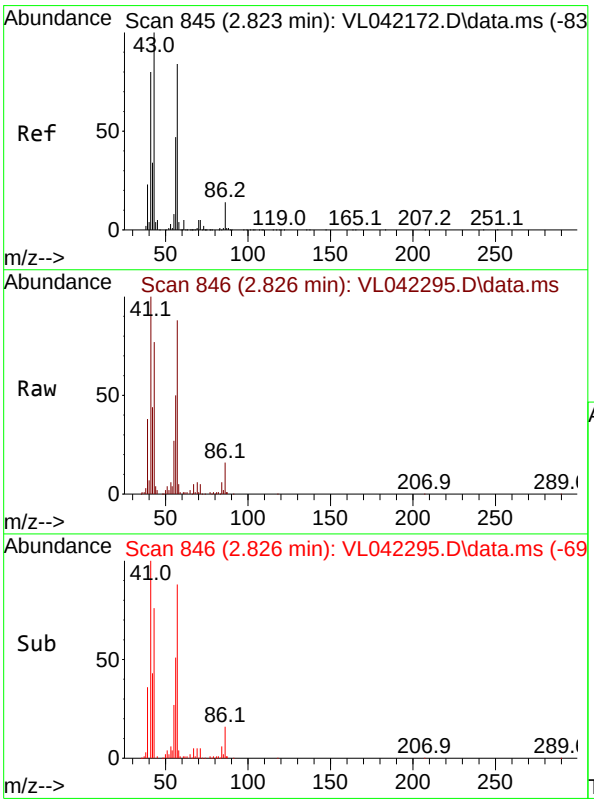

#25
Ethyl Acetate
Concen: 0.686 ppbv
RT: 2.826 min Scan# 84
Delta R.T. -0.007 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-2-3242025

Tgt Ion: 43 Resp: 39156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 4.0 | 8.2 | 12.2# |
| 61 | 2.2 | 7.3 | 10.9# |
| 70 | 3.1 | 7.2 | 10.8# |

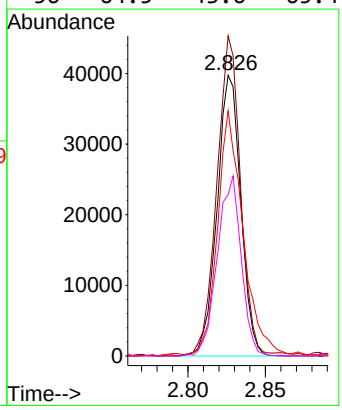


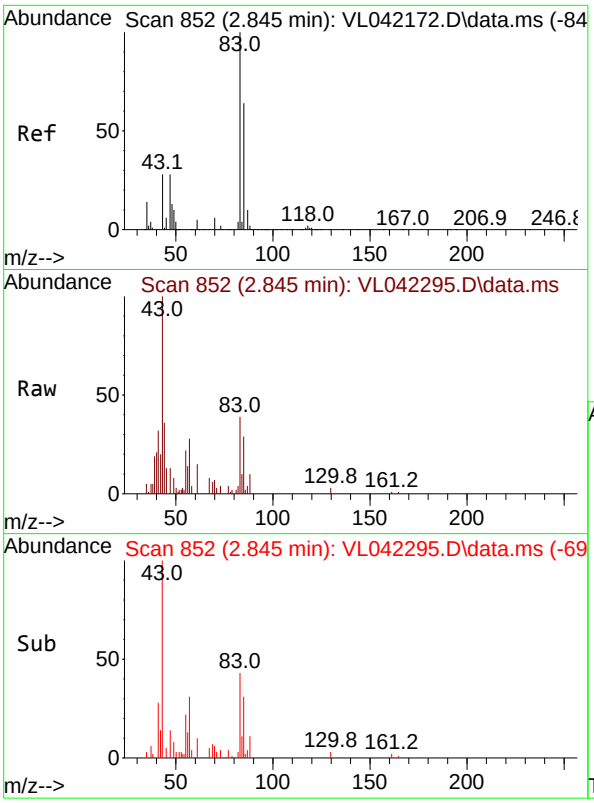




#26
Hexane
Concen: 1.924 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.003 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Tgt Ion: 57 Resp: 42387

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 114.5 | 76.6 | 114.8 |
| 43 | 95.4 | 207.8 | 311.8# |
| 56 | 64.5 | 43.6 | 65.4 |



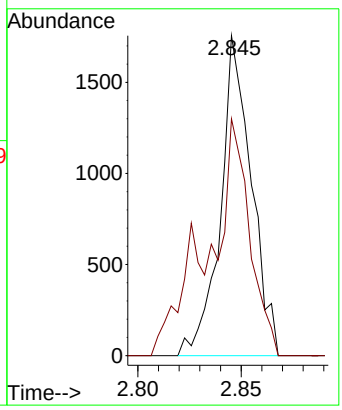


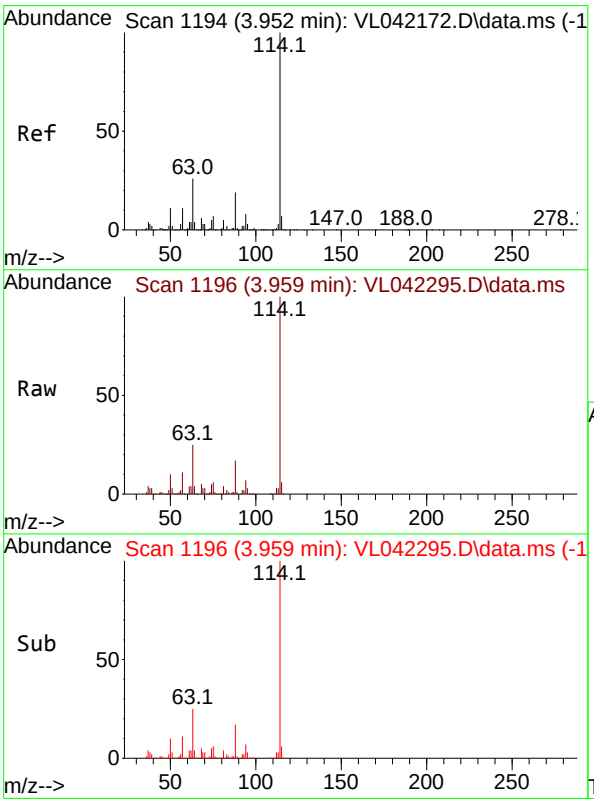

#29
Chloroform
Concen: 0.056 ppbv
RT: 2.845 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-2-3242025

Tgt Ion: 83 Resp: 1821

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 78.2 | 51.4 | 77.2# |

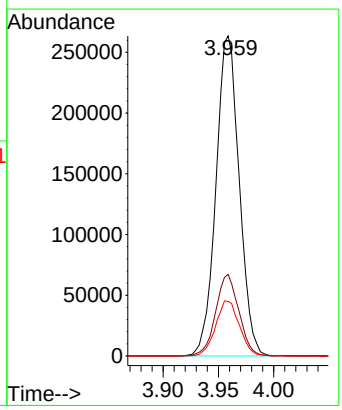


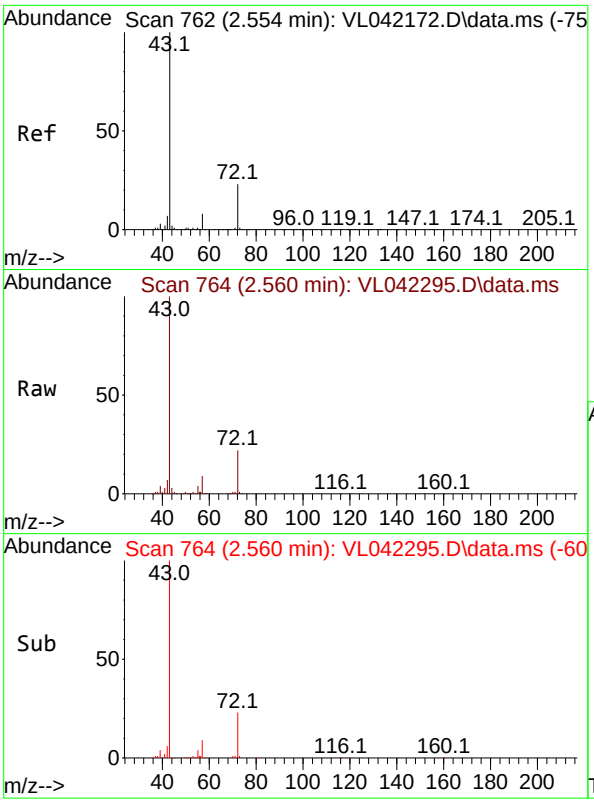




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.006 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Tgt Ion:114 Resp: 385586

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.4 | 20.7 | 31.1 |
| 88 | 17.6 | 15.0 | 22.4 |



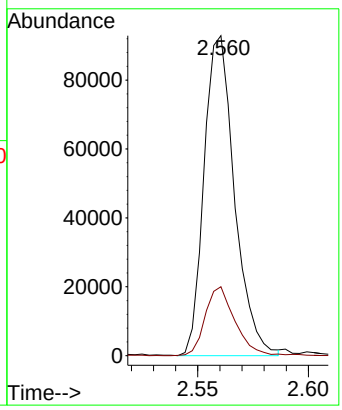


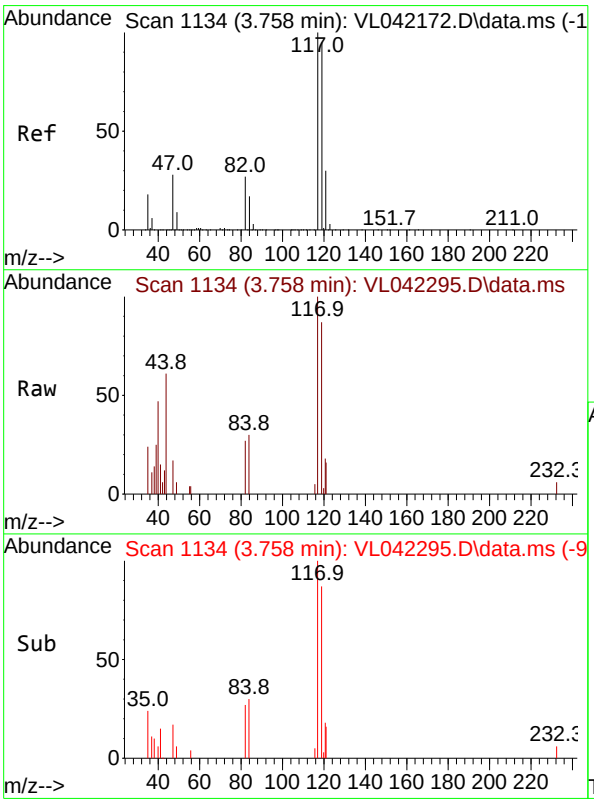

#34
2-Butanone
Concen: 3.186 ppbv
RT: 2.560 min Scan# 7
Delta R.T. 0.006 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-2-3242025

Tgt Ion: 43 Resp: 89072

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 21.3 | 18.2 | 27.2 |

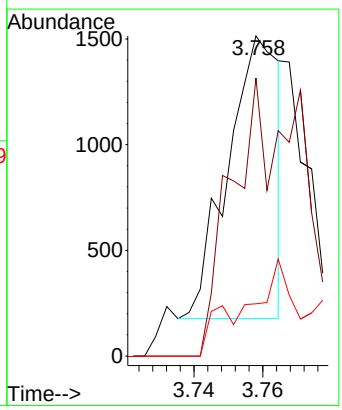


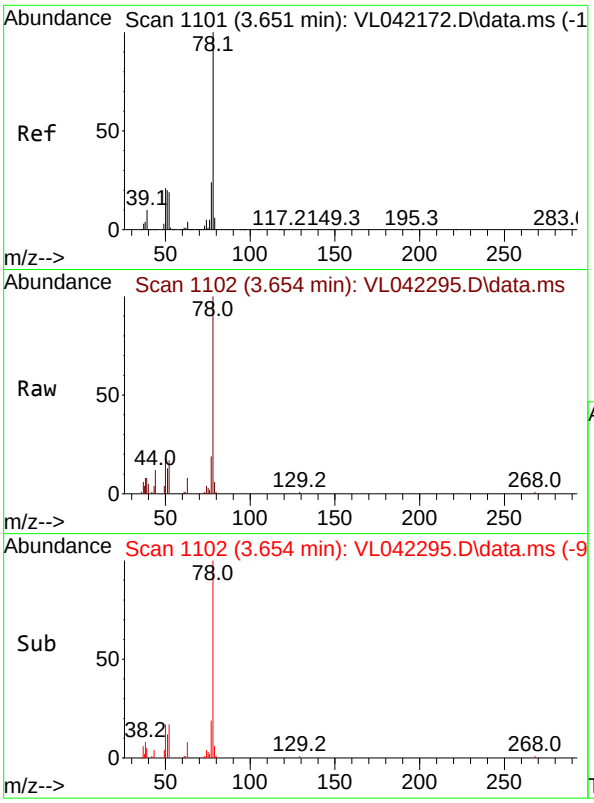




#35
Carbon Tetrachloride
Concen: 0.045 ppbv
RT: 3.758 min Scan# 1134
Delta R.T. -0.000 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Tgt Ion:117 Resp: 1368

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 98.4 | 76.2 | 114.2 |
| 121 | 18.5 | 24.2 | 36.4# |



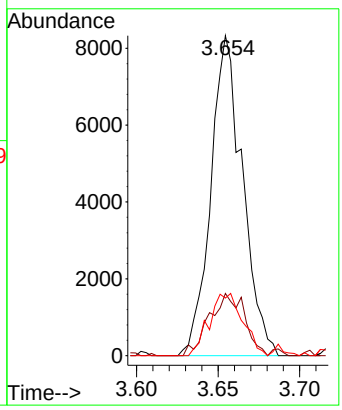


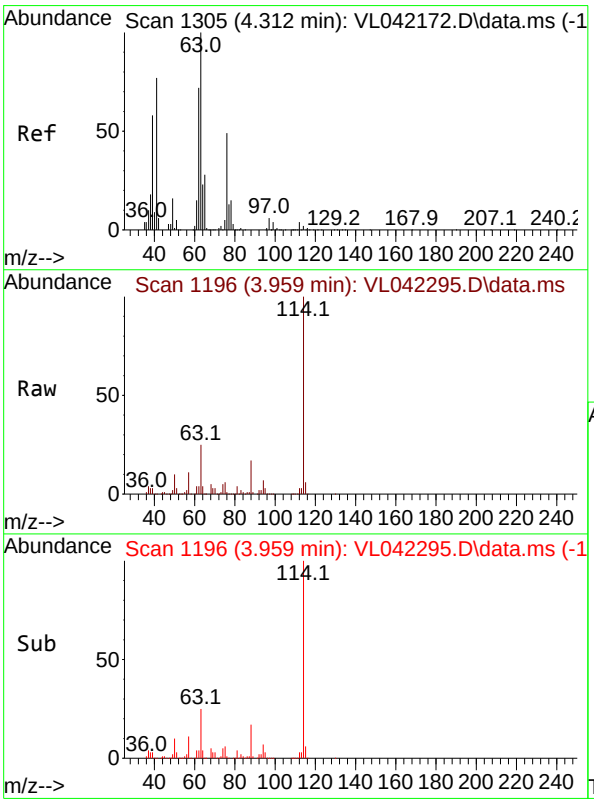

#36
Benzene
Concen: 0.295 ppbv
RT: 3.654 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-2-3242025

Tgt Ion: 78 Resp: 11286

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 19.4 | 19.1 | 28.7 |
| 50 | 18.0 | 16.6 | 24.8 |

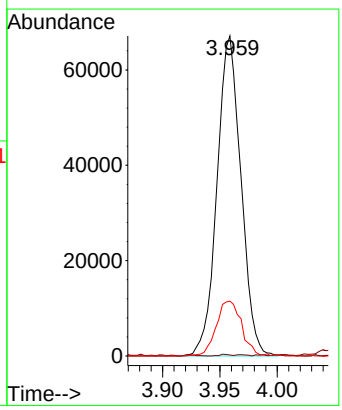


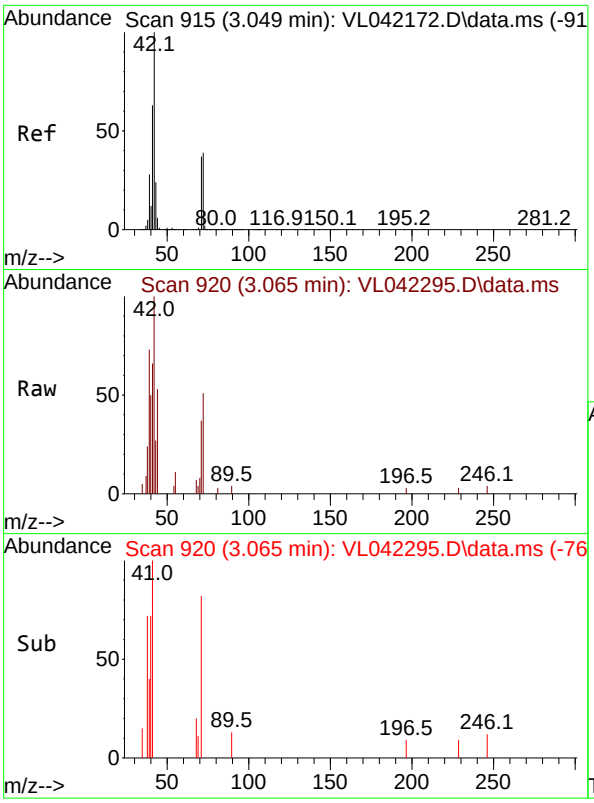




#39
1,2-Dichloropropane
Concen: 7.010 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.353 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Tgt Ion: 63 Resp: 97589

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 0.3 | 61.7 | 92.5# |
| 62 | 17.1 | 57.6 | 86.4# |



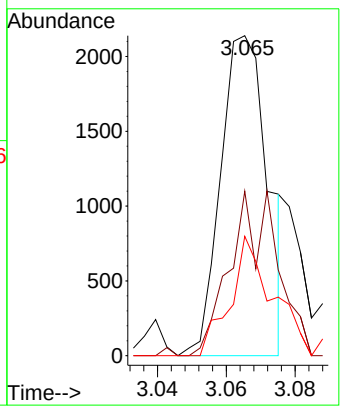


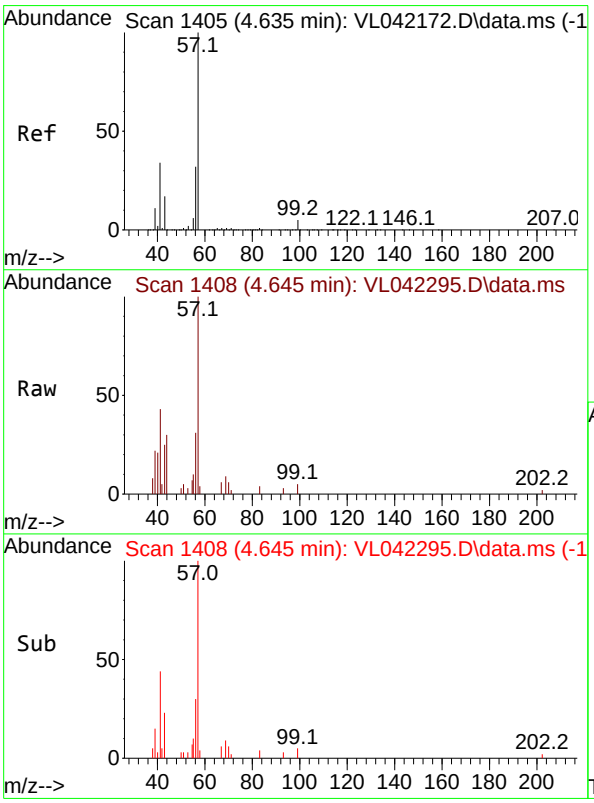

#41
Tetrahydrofuran
Concen: 0.127 ppbv
RT: 3.065 min Scan# 9
Delta R.T. 0.016 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-2-3242025

Tgt Ion: 42 Resp: 2040

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 51.7 | 31.4 | 47.0# |
| 71 | 35.2 | 30.2 | 45.4 |

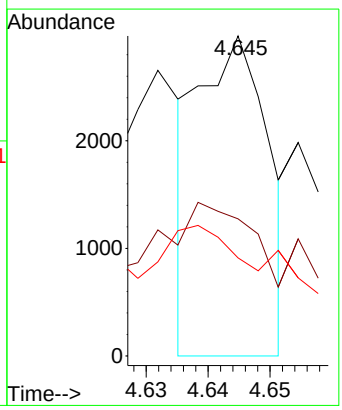


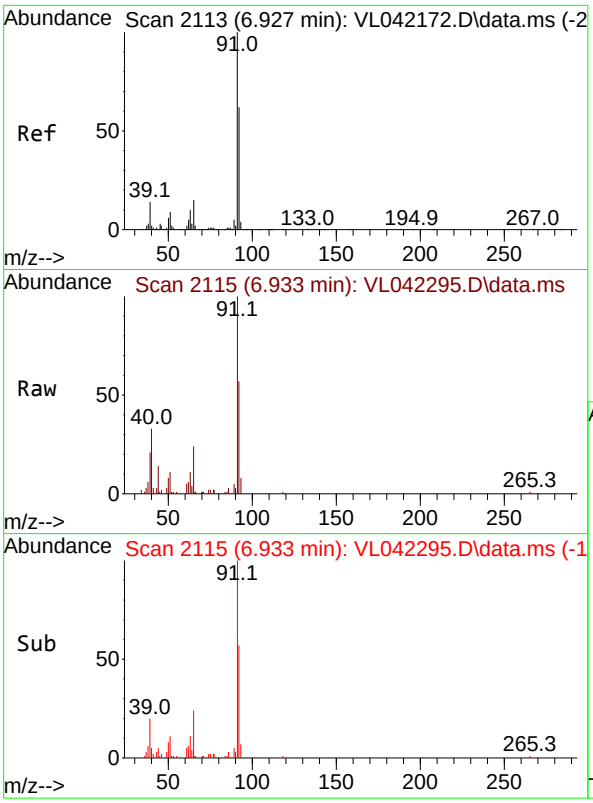




#44
2,2,4-Trimethylpentane
Concen: 0.036 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. 0.010 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Tgt Ion: 57 Resp: 2338

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 154.5 | 26.8 | 40.2# |
| 56 | 123.6 | 25.6 | 38.4# |



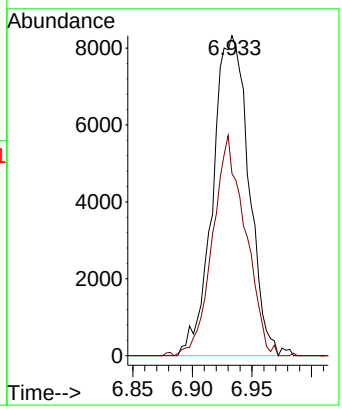


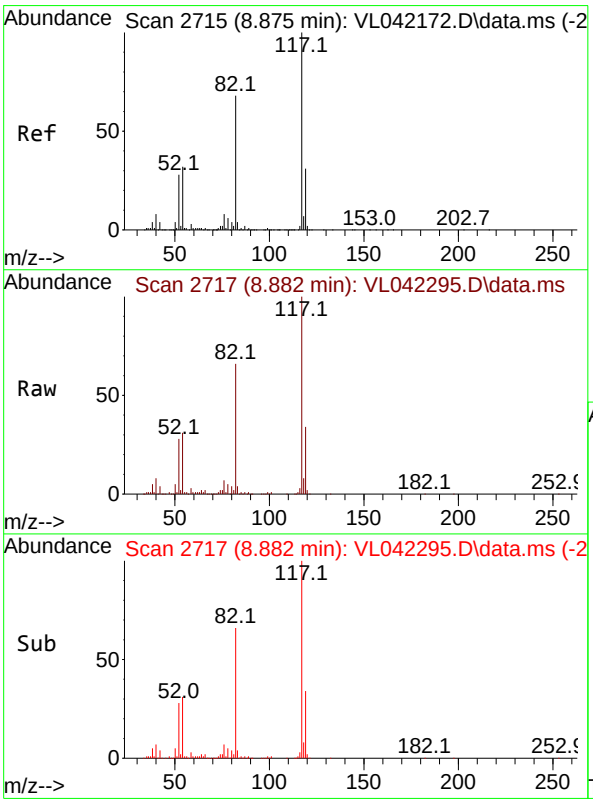

#53
Toluene
Concen: 0.386 ppbv
RT: 6.933 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-2-3242025

Tgt Ion: 91 Resp: 17473

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 62.6 | 48.4 | 72.6 |

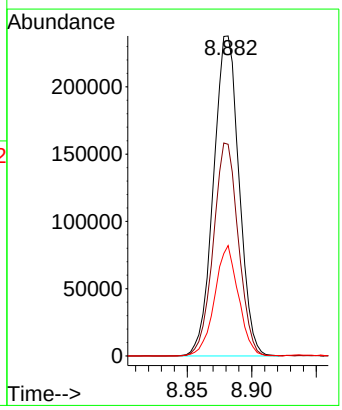


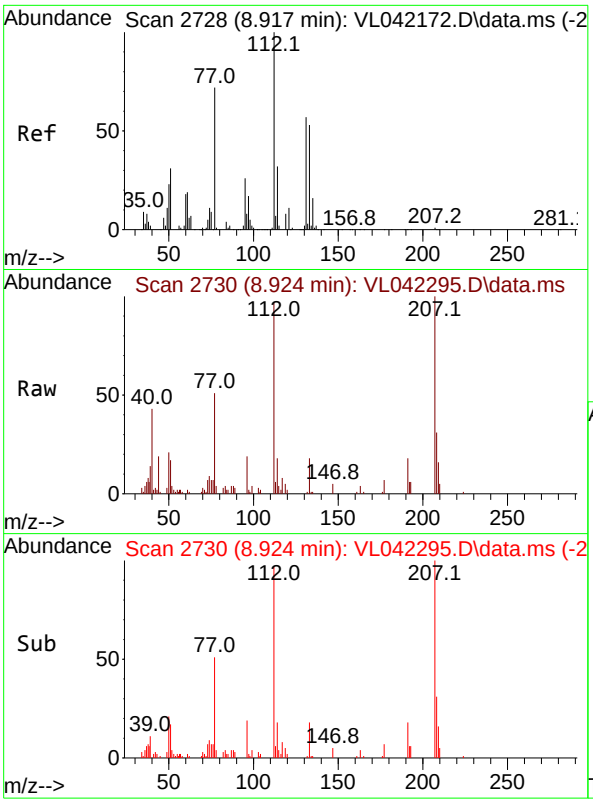




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. 0.006 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Tgt Ion:117 Resp: 326865

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 65.3 | 55.8 | 83.6 |
| 119 | 32.2 | 25.5 | 38.3 |



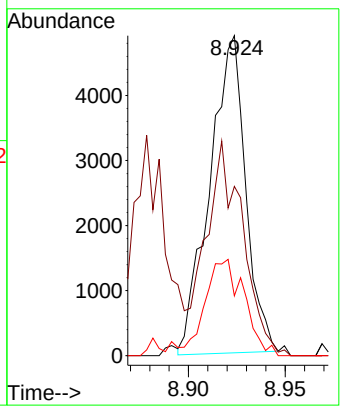


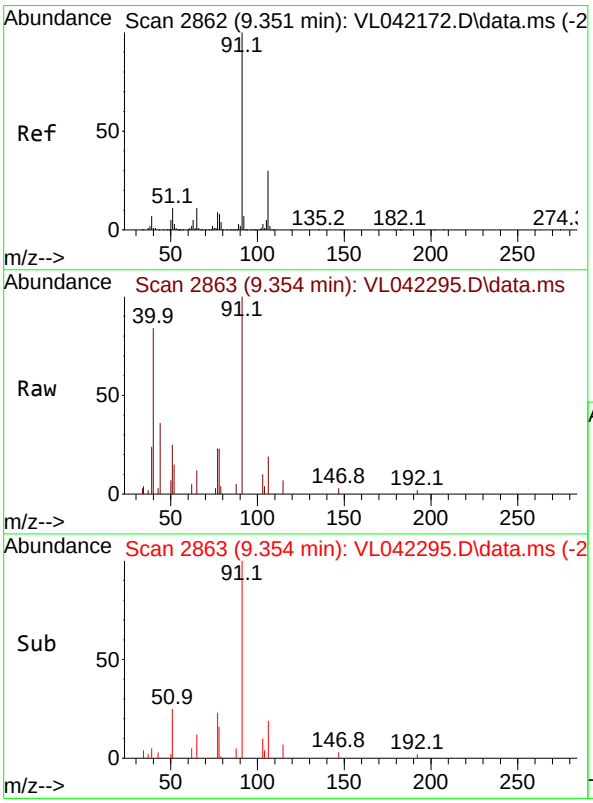

#57
Chlorobenzene
Concen: 0.203 ppbv
RT: 8.924 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-2-3242025

Tgt Ion:112 Resp: 6308

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 52.5 | 58.2 | 87.2# |
| 114 | 18.9 | 29.1 | 35.5# |

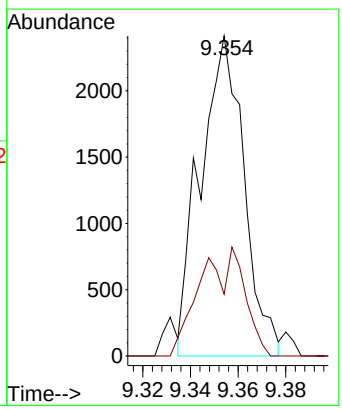


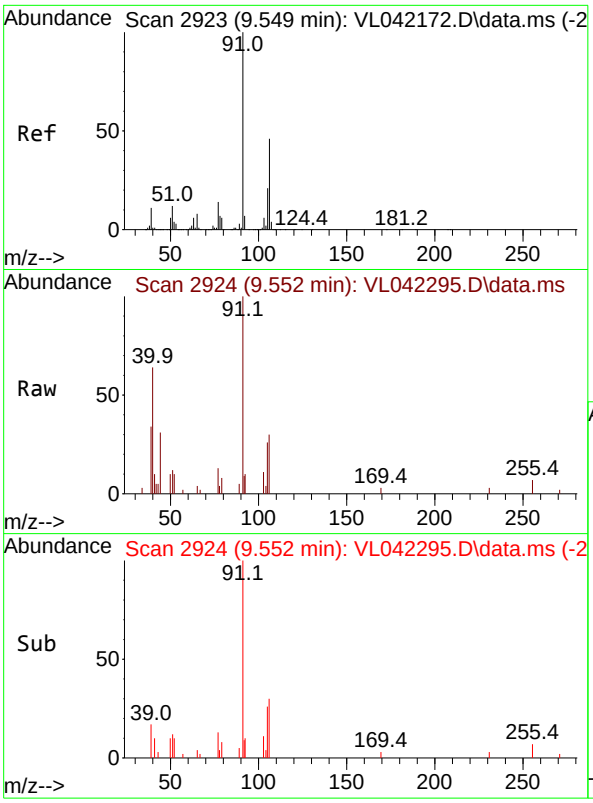




#58
Ethyl Benzene
Concen: 0.053 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.003 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Tgt Ion: 91 Resp: 3072

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 20.2 | 24.2 | 36.2# |



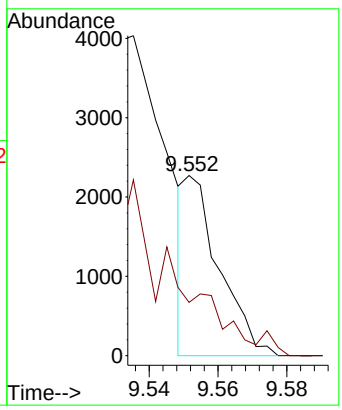


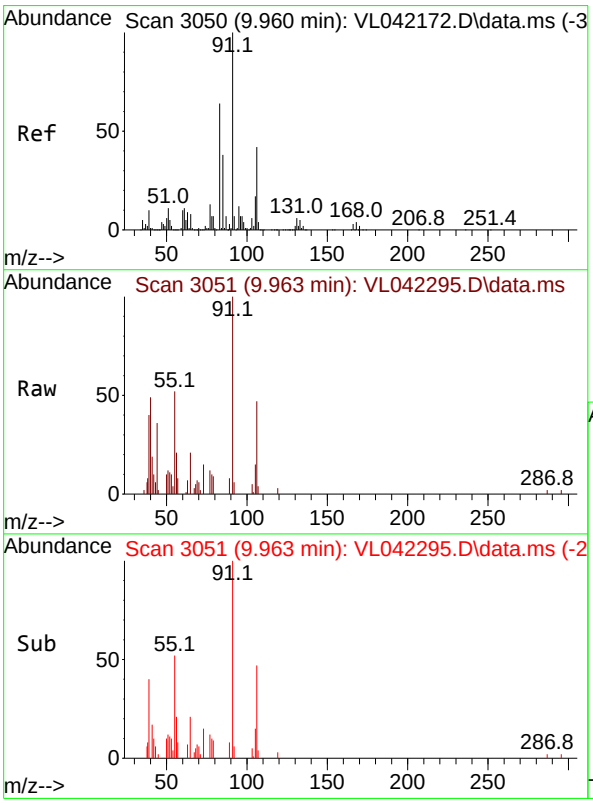

#59
m/p-Xylene
Concen: 0.034 ppbv
RT: 9.552 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-2-3242025

Tgt Ion: 91 Resp: 1588

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 0.0 | 36.4 | 54.6# |

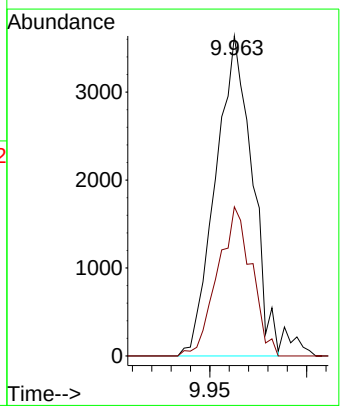


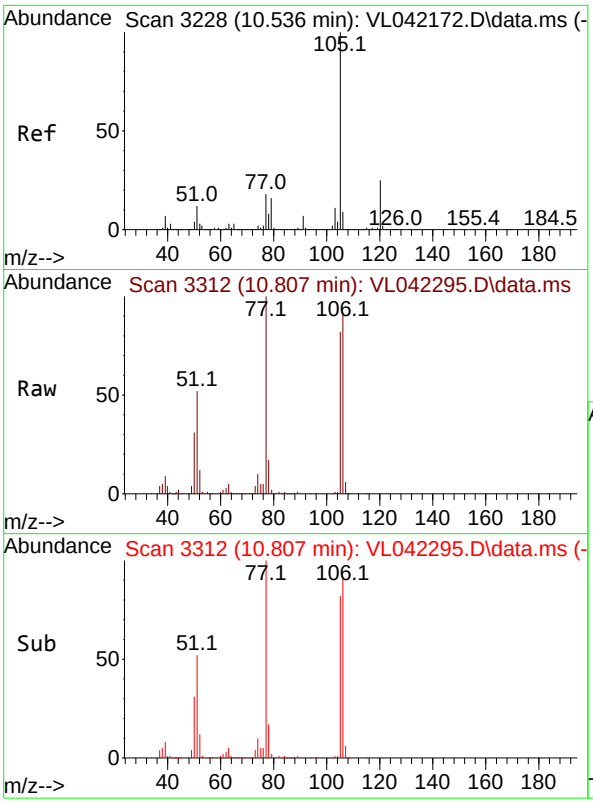




#60
o-Xylene
Concen: 0.103 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.003 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Tgt Ion: 91 Resp: 4768

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 43.4 | 20.8 | 62.5 |



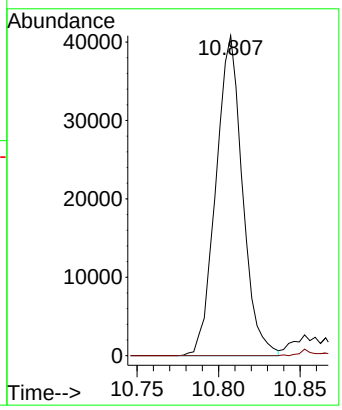


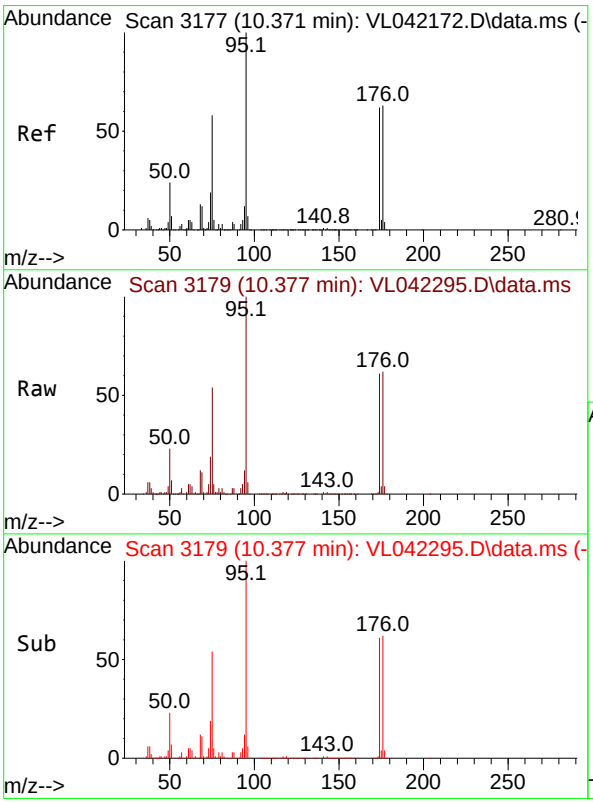

#62
Isopropylbenzene
Concen: 0.665 ppbv
RT: 10.807 min Scan# 3
Delta R.T. 0.272 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-2-3242025

Tgt Ion:105 Resp: 46203

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 0.0 | 19.9 | 29.9# |

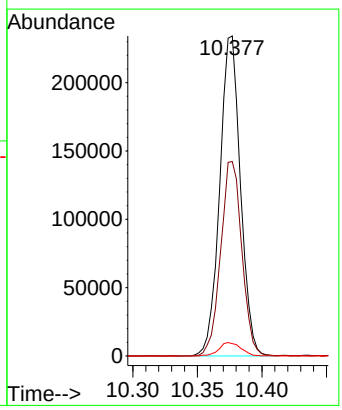


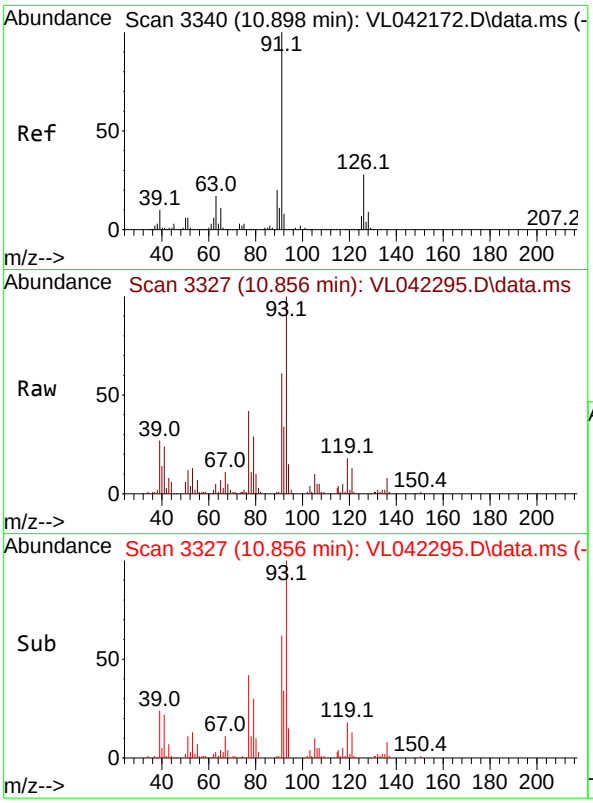




#68
1-Bromo-4-Fluorobenzene
Concen: 9.709 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.006 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Tgt Ion: 95 Resp: 260627

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 62.2 | 50.6 | 76.0 |
| 175 | 4.5 | 3.8 | 5.6 |



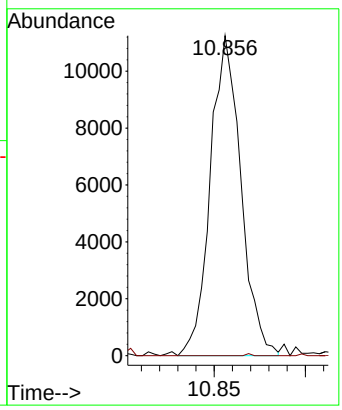


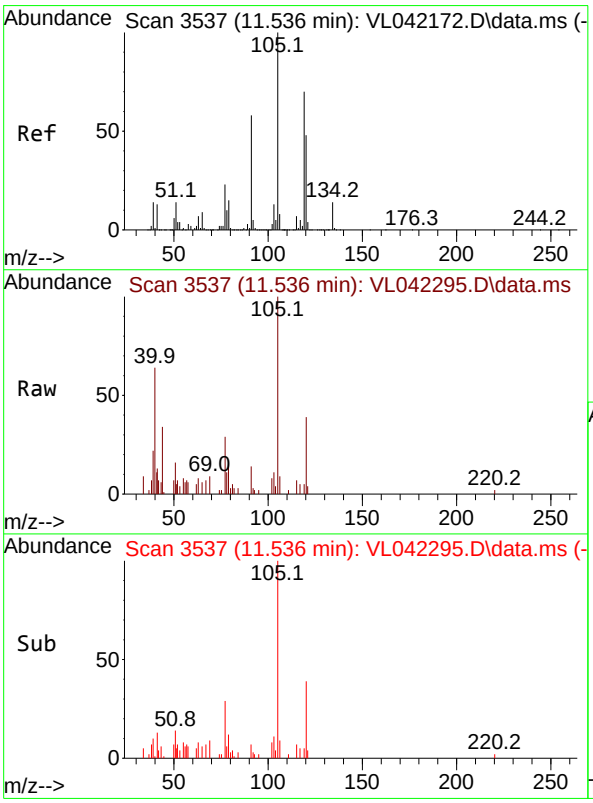

#71
2-Chlorotoluene
Concen: 0.243 ppbv
RT: 10.856 min Scan# 3
Delta R.T. -0.042 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-2-3242025

Tgt Ion: 91 Resp: 13101

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 1.2 | 11.6 | 46.4# |

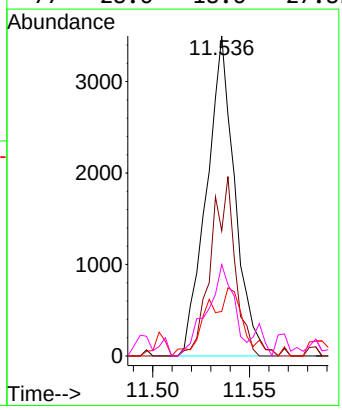



#74
1,2,4-Trimethylbenzene
Concen: 0.061 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.000 min
Lab File: VL042295.D
Acq: 09 Apr 2025 16:23

Tgt Ion:105 Resp: 3557

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 39.1 | 38.6 | 58.0 |
| 91 | 13.9 | 46.2 | 69.2# |
| 77 | 28.6 | 18.6 | 27.8# |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042296.D
Acq On : 09 Apr 2025 16:57
Operator : SY/MD
Sample : Q1665-20
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-3-3242025

Quant Time: Apr 10 01:46:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) Bromochloromethane | 2.787 | 49 | 161865 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.959 | 114 | 384782 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.878 | 117 | 329132 | 10.000 | ppbv | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95 | 253889 | 9.393 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 93.900% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.499 | 85 | 10098 | 0.423 | ppbv | | 94 |
| 3) Chlorodifluoromethane | 1.622 | 51 | 2003 | 0.082 | ppbv | | 99 |
| 4) Chloromethane | 1.531 | 50 | 4745 | 0.486 | ppbv | | 96 |
| 7) Chloroethane | 1.706 | 64 | 129 | 0.033 | ppbv | # | 70 |
| 9) Propene | 1.884 | 41 | 48825 | 4.363 | ppbv | | 91 |
| 10) Heptane | 4.981 | 43 | 1866 | 0.063 | ppbv | # | 28 |
| 11) Trichlorofluoromethane | 1.877 | 101 | 4945 | 0.213 | ppbv | # | 74 |
| 12) 1,1,2-Trichlorotrifluo... | 2.140 | 101 | 1447 | 0.076 | ppbv | | 95 |
| 13) Ethanol | 1.722 | 45 | 33576 | 31.739 | ppbv | | 81 |
| 15) Acetone | 1.835 | 43 | 182118 | 8.045 | ppbv | | 92 |
| 16) 1,3-Butadiene | 1.599 | 39 | 2415 | 0.218 | ppbv | # | 48 |
| 17) tert-Butyl alcohol | 1.884 | 59 | 17996 | 0.638 | ppbv | | 100 |
| 19) Isopropyl Alcohol | 1.884 | 45 | 498343 | 39.016 | ppbv | # | 32 |
| 20) Methylene Chloride | 2.062 | 84 | 11004 | 1.305 | ppbv | | 96 |
| 21) Allyl Chloride | 2.230 | 41 | 746 | 0.047 | ppbv | # | 26 |
| 23) Vinyl Acetate | 2.473 | 43 | 11170 | 1.140 | ppbv | # | 44 |
| 25) Ethyl Acetate | 2.826 | 43 | 31835 | 0.542 | ppbv | # | 87 |
| 26) Hexane | 2.826 | 57 | 33283 | 1.467 | ppbv | # | 36 |
| 29) Chloroform | 2.845 | 83 | 1483 | 0.045 | ppbv | # | 57 |
| 34) 2-Butanone | 2.560 | 43 | 71103 | 2.548 | ppbv | | 95 |
| 35) Carbon Tetrachloride | 3.758 | 117 | 2271 | 0.076 | ppbv | # | 90 |
| 36) Benzene | 3.654 | 78 | 10547 | 0.276 | ppbv | # | 94 |
| 39) 1,2-Dichloropropane | 3.959 | 63 | 102058 | 7.346 | ppbv | # | 23 |
| 41) Tetrahydrofuran | 3.062 | 42 | 4483 | 0.279 | ppbv | | 92 |
| 44) 2,2,4-Trimethylpentane | 4.641 | 57 | 2009 | 0.031 | ppbv | # | 42 |
| 53) Toluene | 6.930 | 91 | 24055 | 0.532 | ppbv | | 98 |
| 57) Chlorobenzene | 8.920 | 112 | 1926 | 0.062 | ppbv | # | 89 |
| 58) Ethyl Benzene | 9.354 | 91 | 4472 | 0.076 | ppbv | | 96 |
| 59) m/p-Xylene | 9.542 | 91 | 3344 | 0.072 | ppbv | # | 31 |
| 60) o-Xylene | 9.963 | 91 | 5830 | 0.125 | ppbv | | 99 |
| 74) 1,2,4-Trimethylbenzene | 11.536 | 105 | 2269 | 0.039 | ppbv | # | 74 |

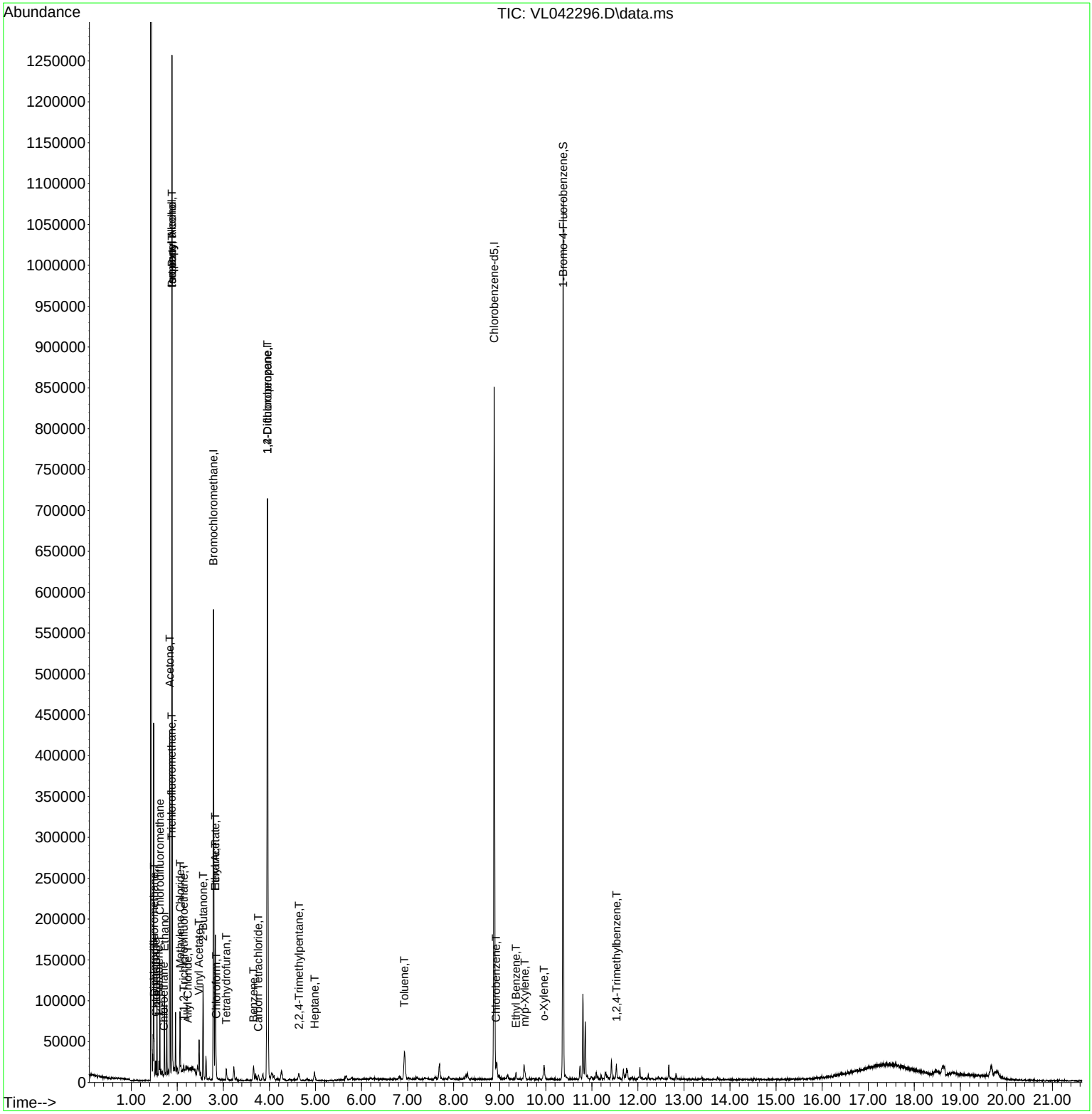
(#) = qualifier out of range (m) = manual integration (+) = signals summed

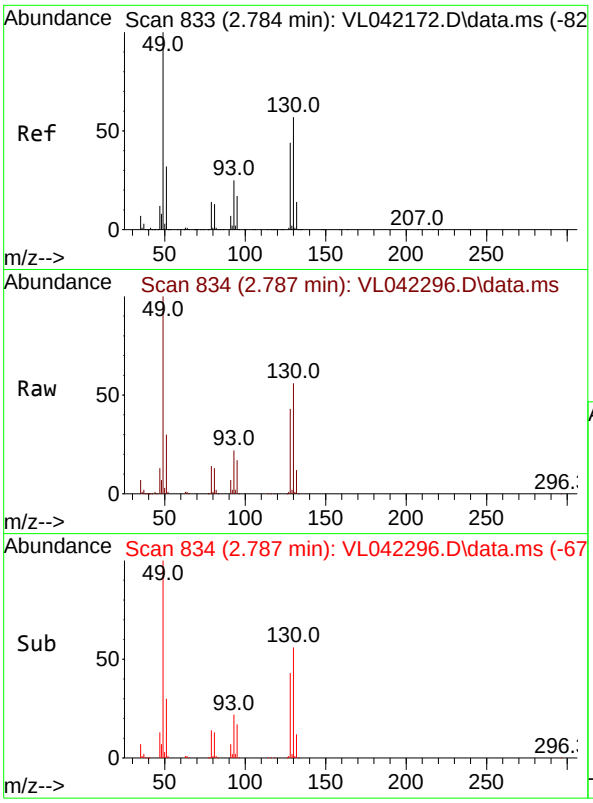
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042296.D
Acq On : 09 Apr 2025 16:57
Operator : SY/MD
Sample : Q1665-20
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-3-3242025

Quant Time: Apr 10 01:46:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration



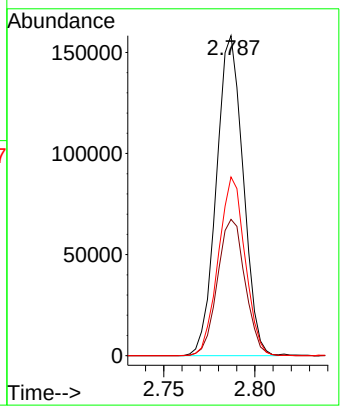


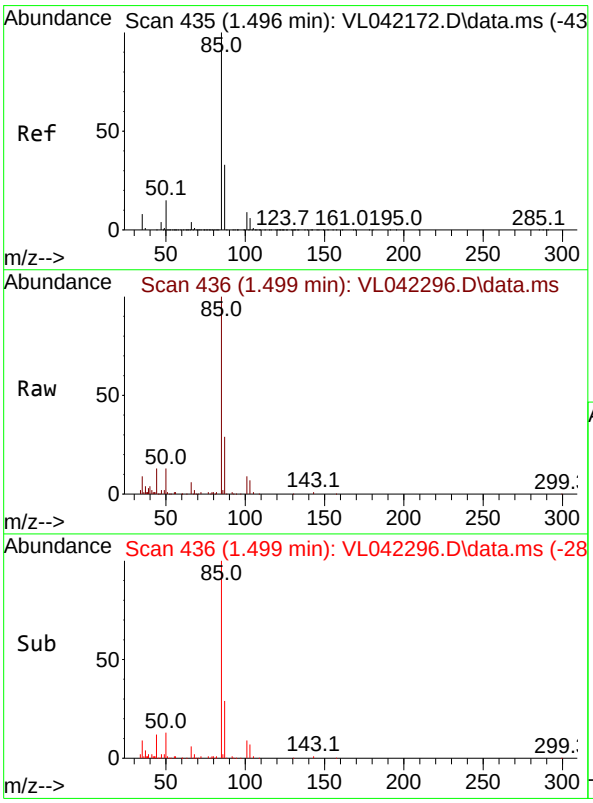

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-3-3242025

Tgt Ion: 49 Resp: 161865

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 43.9 | 22.9 | 68.5 |
| 130 | 55.7 | 28.8 | 86.4 |

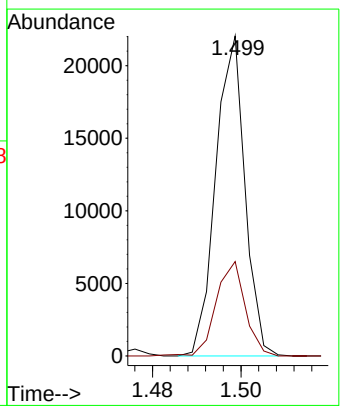


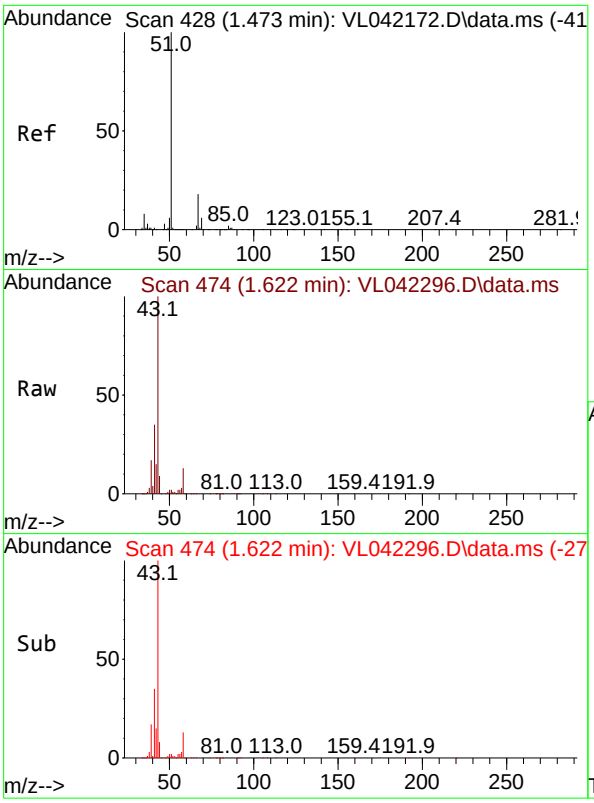




#2
Dichlorodifluoromethane
Concen: 0.423 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion: 85 Resp: 10098

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 29.5 | 26.1 | 39.1 |



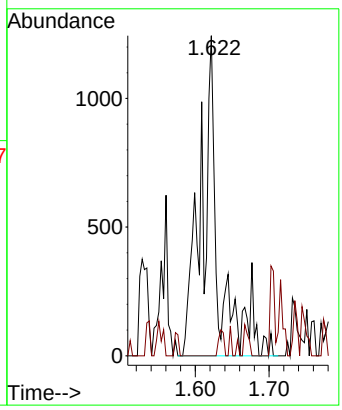


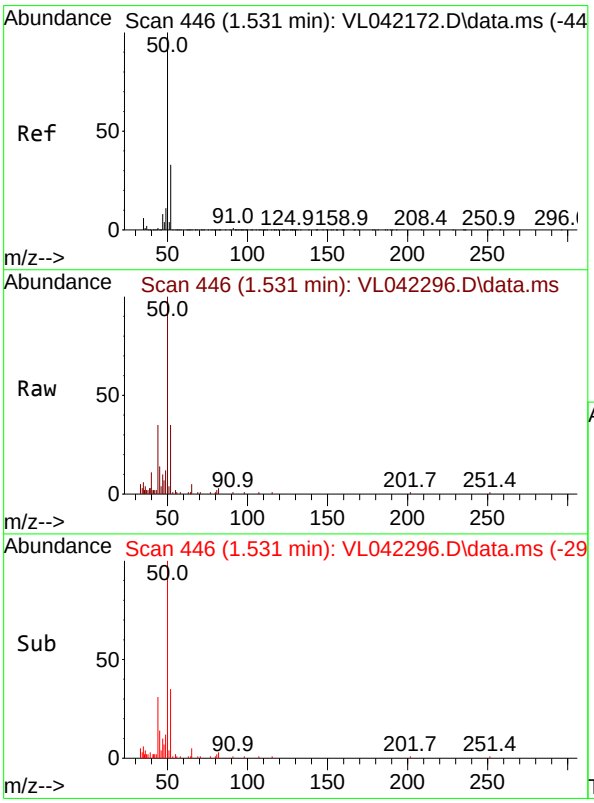

#3
Chlorodifluoromethane
Concen: 0.082 ppbv
RT: 1.622 min Scan# 4
Delta R.T. 0.149 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-3-3242025

Tgt Ion: 51 Resp: 2003

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 19.4 | 15.0 | 22.6 |

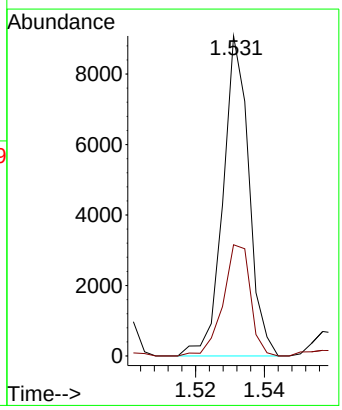


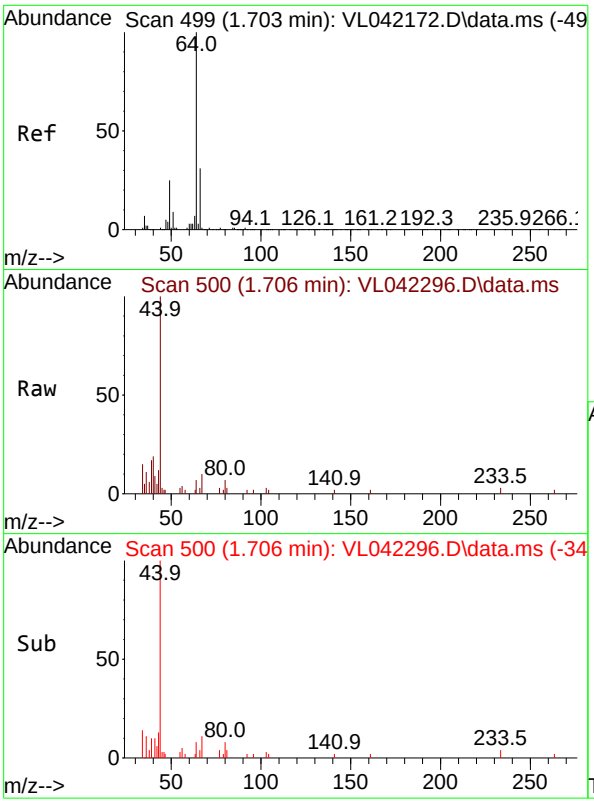




#4
Chloromethane
Concen: 0.486 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion: 50 Resp: 4745

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 34.8 | 26.1 | 39.1 |



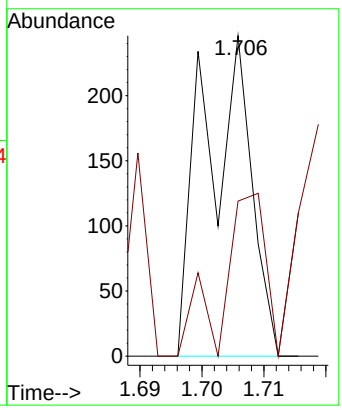


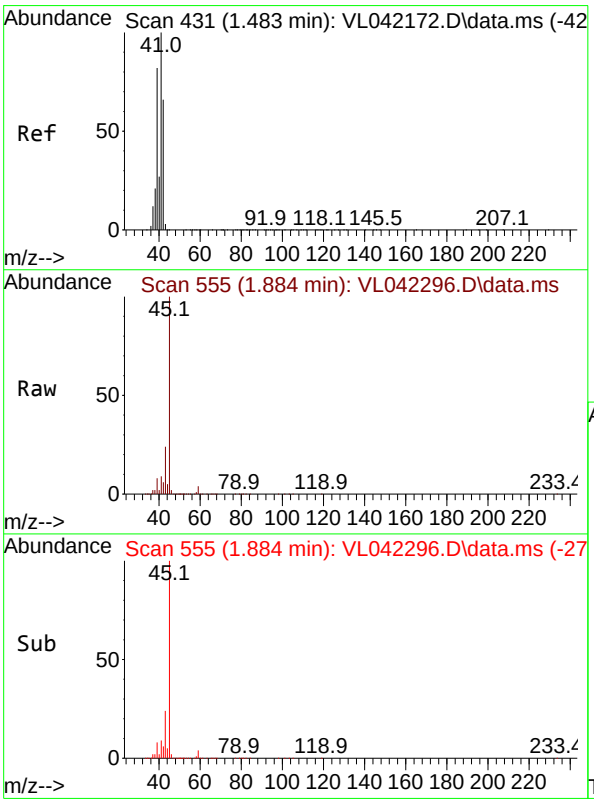

#7
Chloroethane
Concen: 0.033 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-3-3242025

Tgt Ion: 64 Resp: 129

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 48.4 | 25.2 | 37.8# |

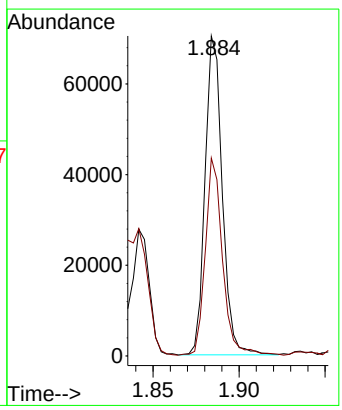


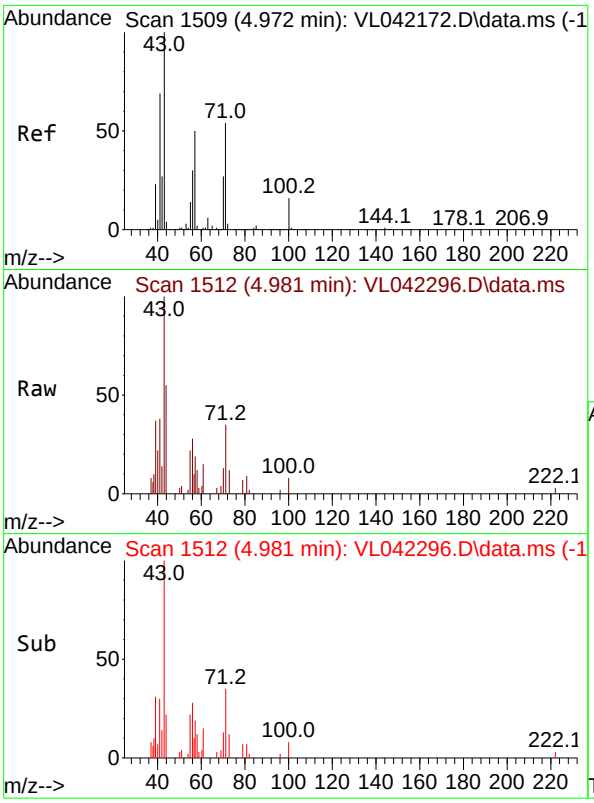




#9
Propene
Concen: 4.363 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.401 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion: 41 Resp: 48825

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 61.7 | 55.4 | 83.2 |



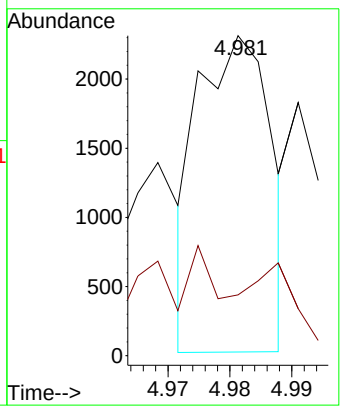


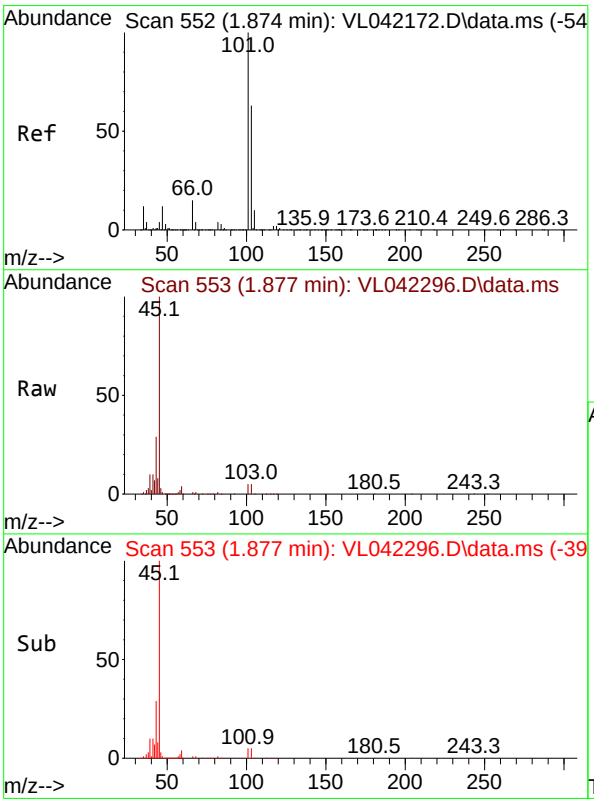

#10
Heptane
Concen: 0.063 ppbv
RT: 4.981 min Scan# 1
Delta R.T. 0.009 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-3-3242025

Tgt Ion: 43 Resp: 1866

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 0.0 | 39.4 | 59.2# |

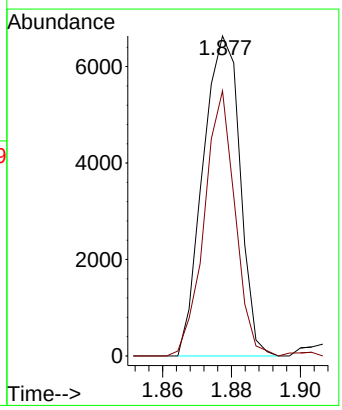


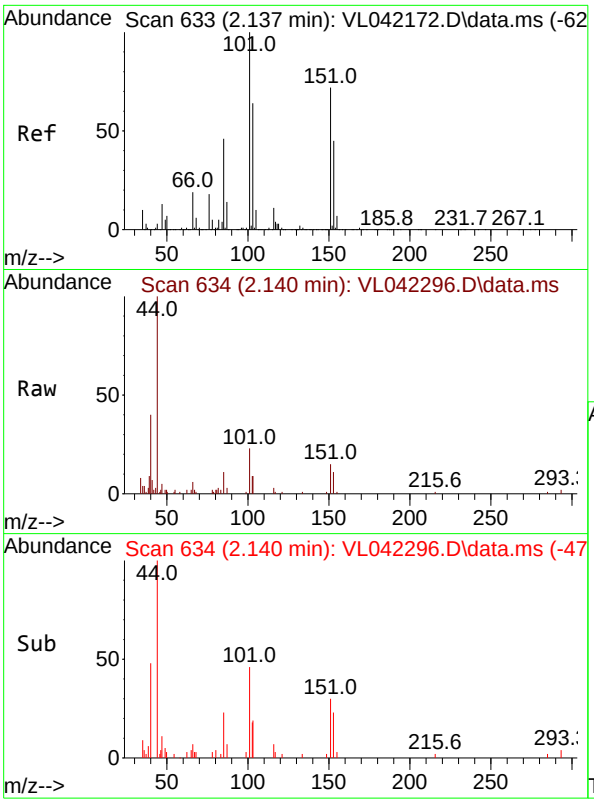




#11
Trichlorofluoromethane
Concen: 0.213 ppbv
RT: 1.877 min Scan# 553
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion:101 Resp: 4945

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 82.8 | 50.2 | 75.2# |



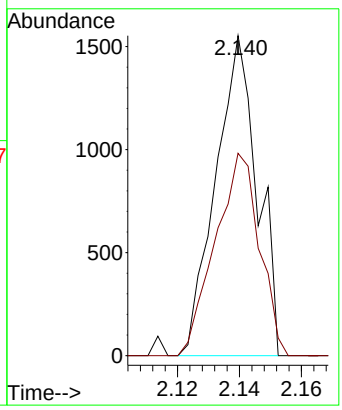


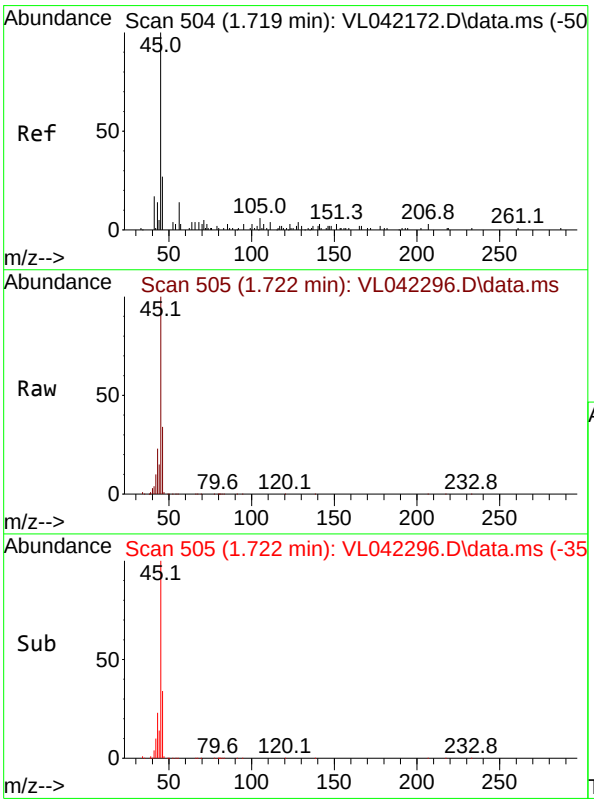

#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.076 ppbv
RT: 2.140 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-3-3242025

Tgt Ion:101 Resp: 1447

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 67.2 | 57.1 | 85.7 |

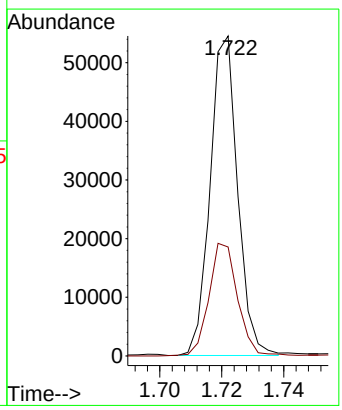


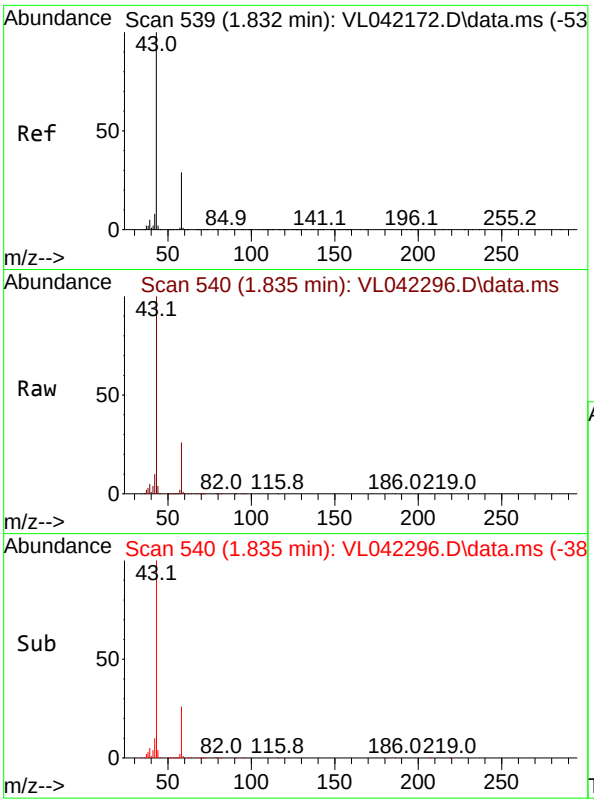




#13
Ethanol
Concen: 31.739 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion: 45 Resp: 33576

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 37.1 | 20.2 | 80.8 |



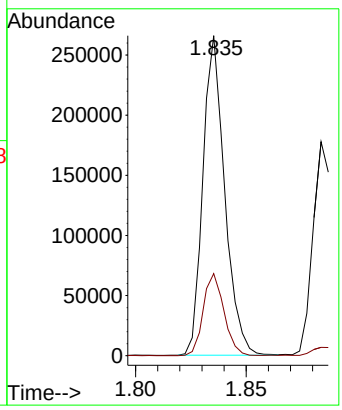


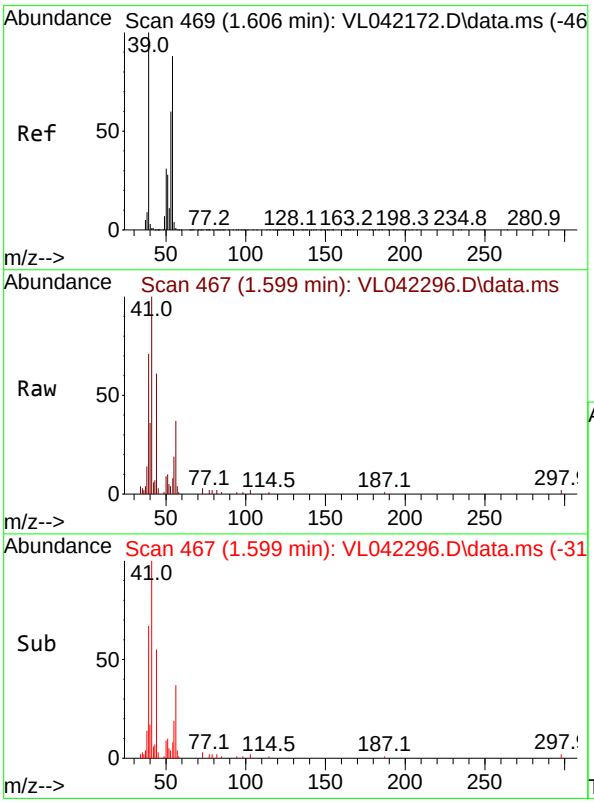

#15
Acetone
Concen: 8.045 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-3-3242025

Tgt Ion: 43 Resp: 182118

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 24.5 | 23.2 | 34.8 |

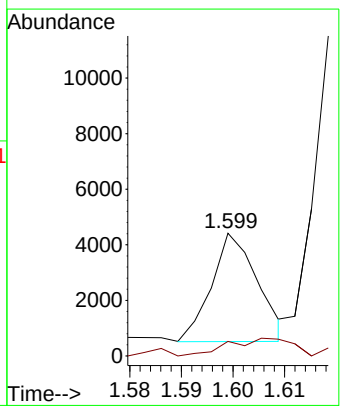


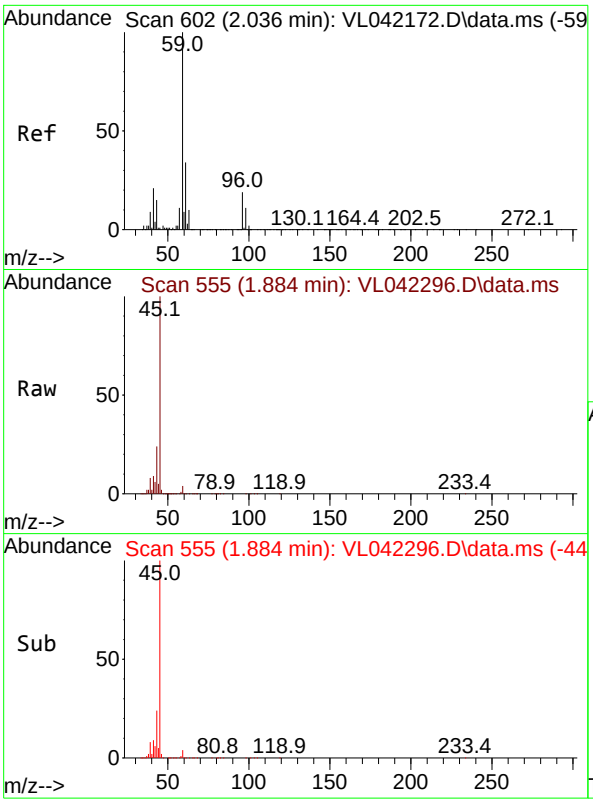




#16
1,3-Butadiene
Concen: 0.218 ppbv
RT: 1.599 min Scan# 467
Delta R.T. -0.007 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion: 39 Resp: 2415

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 31.7 | 60.7 | 91.1# |



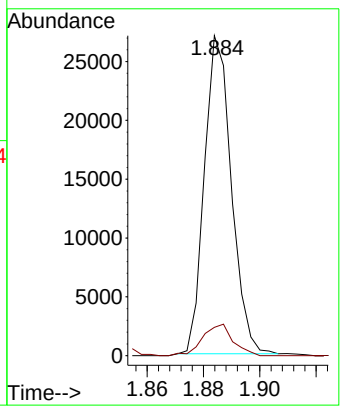


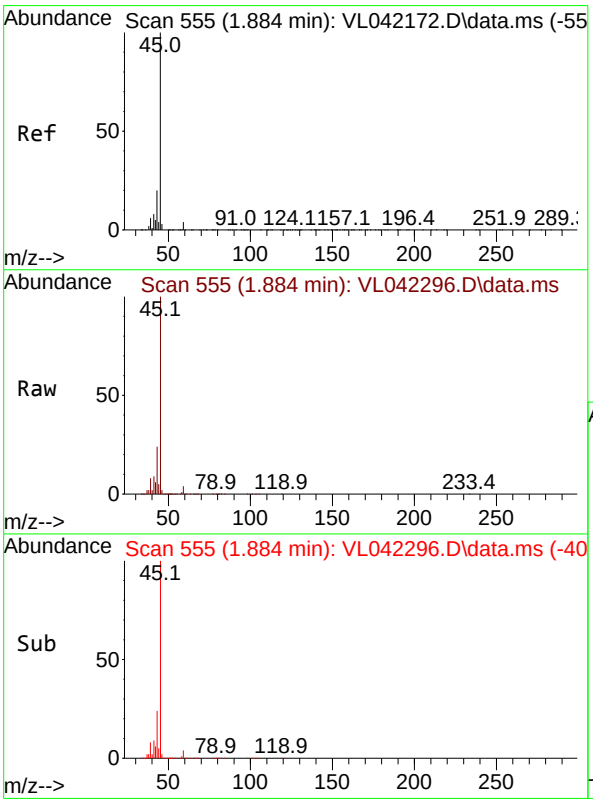

#17
tert-Butyl alcohol
Concen: 0.638 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.152 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-3-3242025

Tgt Ion: 59 Resp: 17996

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 11.1 | 8.9 | 13.3 |

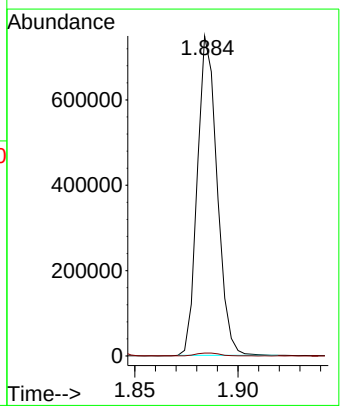


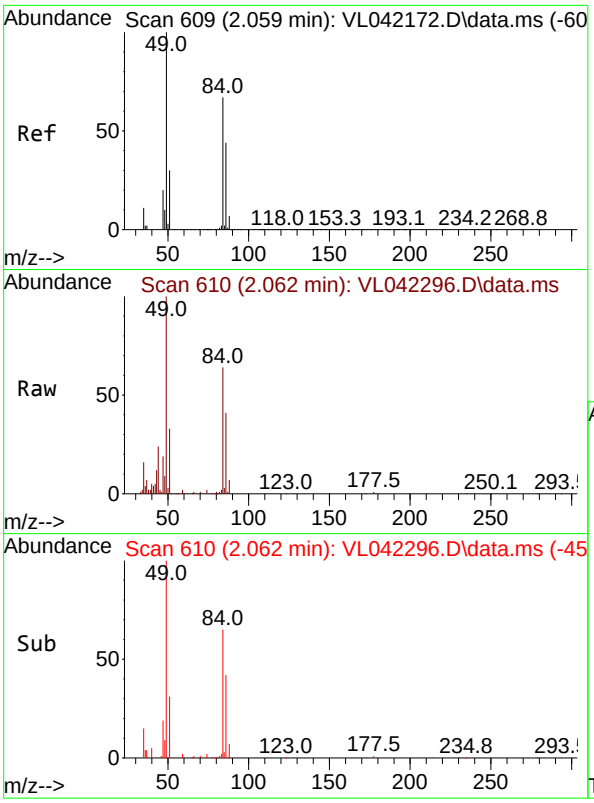




#19
Isopropyl Alcohol
Concen: 39.016 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion: 45 Resp: 498343

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 1.2 | 36.9 | 55.3# |



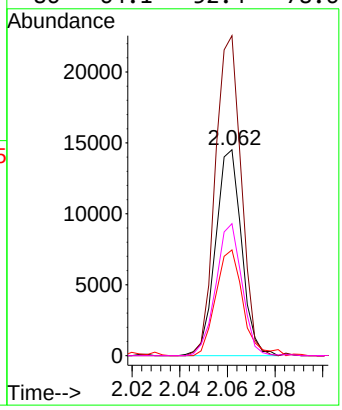


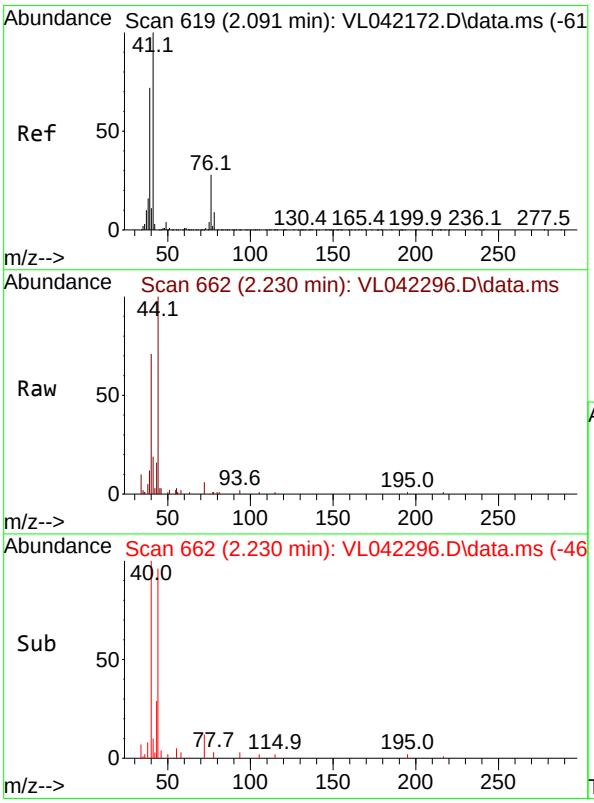

#20
Methylene Chloride
Concen: 1.305 ppbv
RT: 2.062 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-3-3242025

Tgt Ion: 84 Resp: 11004

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 155.3 | 120.2 | 180.4 |
| 51 | 51.4 | 37.4 | 56.0 |
| 86 | 64.1 | 52.4 | 78.6 |

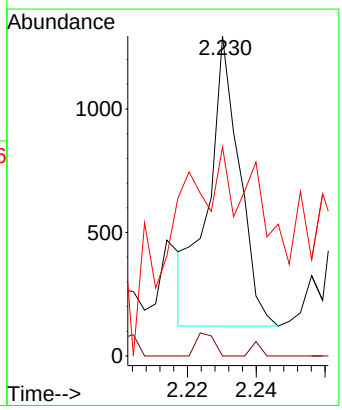


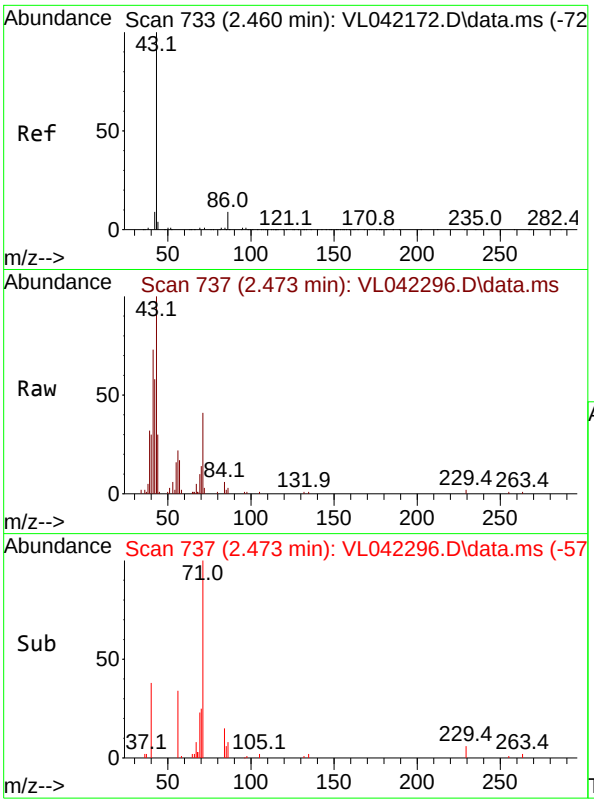




#21
Allyl Chloride
Concen: 0.047 ppbv
RT: 2.230 min Scan# 662
Delta R.T. 0.139 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion: 41 Resp: 746

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 10.3 | 24.1 | 36.1# |
| 39 | 0.0 | 61.1 | 91.7# |



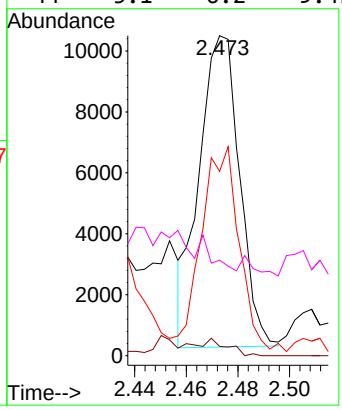


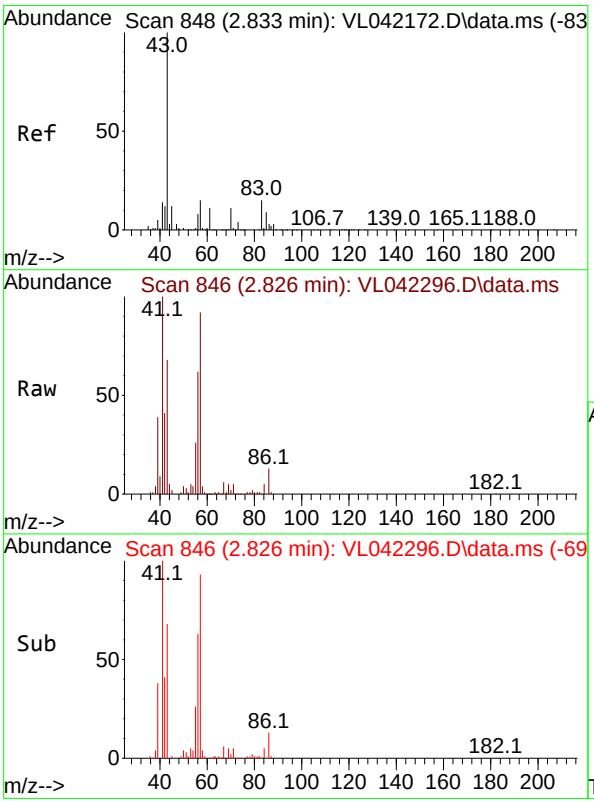

#23
Vinyl Acetate
Concen: 1.140 ppbv
RT: 2.473 min Scan# 7
Delta R.T. 0.013 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-3-3242025

Tgt Ion: 43 Resp: 11170

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 3.1 | 5.5 | 8.3# |
| 42 | 56.1 | 8.6 | 13.0# |
| 44 | 5.1 | 6.2 | 9.4# |

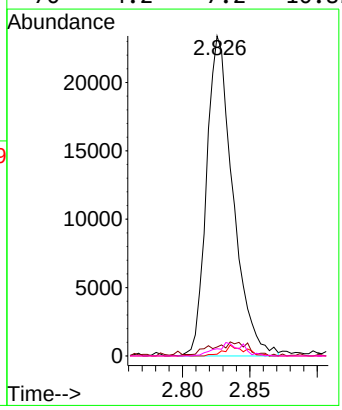


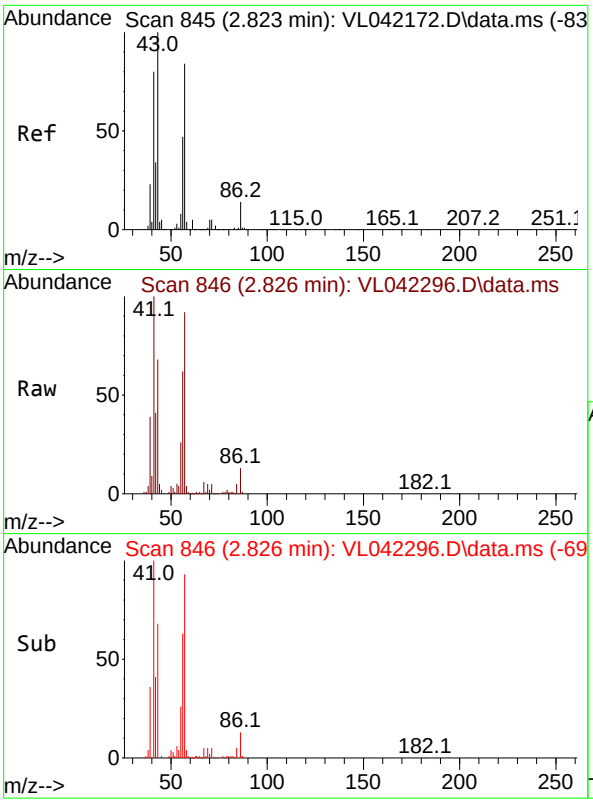




#25
Ethyl Acetate
Concen: 0.542 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.007 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion: 43 Resp: 31835

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 6.9 | 8.2 | 12.2# |
| 61 | 2.7 | 7.3 | 10.9# |
| 70 | 4.2 | 7.2 | 10.8# |



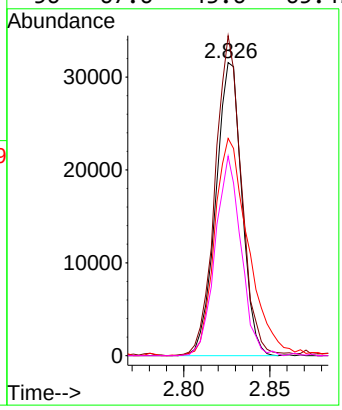


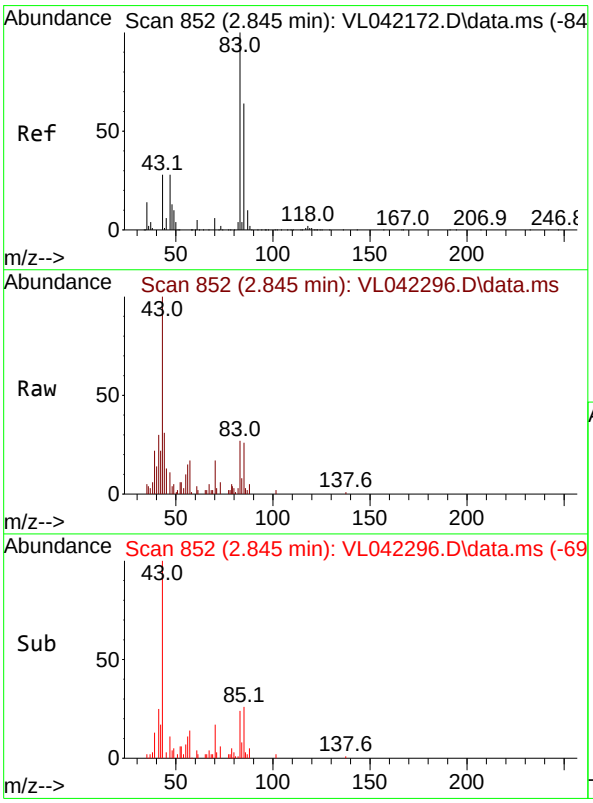

#26
Hexane
Concen: 1.467 ppbv
RT: 2.826 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-3-3242025

Tgt Ion: 57 Resp: 33283

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 112.6 | 76.6 | 114.8 |
| 43 | 96.8 | 207.8 | 311.8# |
| 56 | 67.6 | 43.6 | 65.4# |

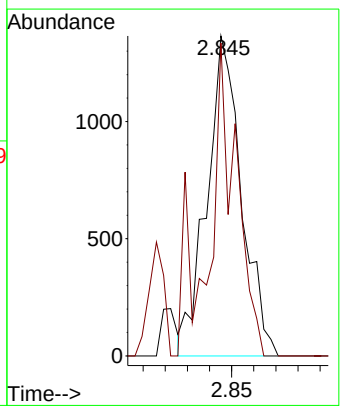


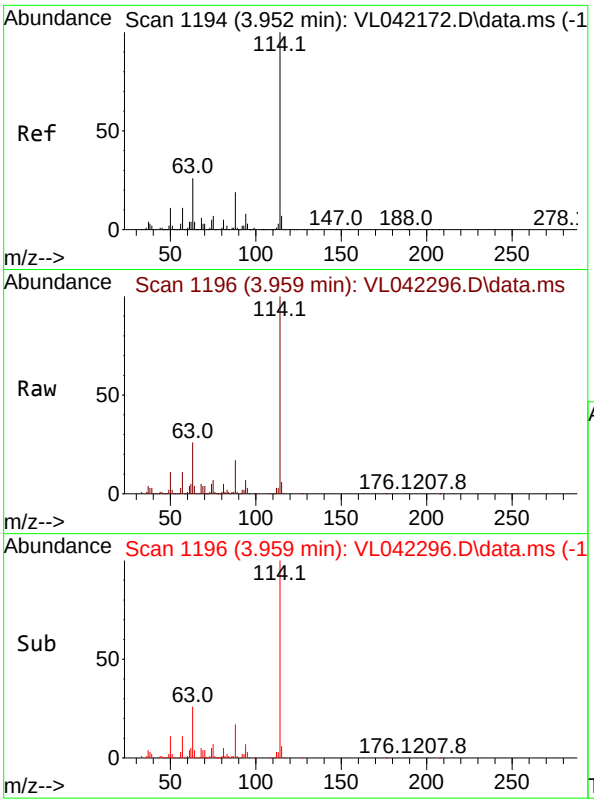




#29
Chloroform
Concen: 0.045 ppbv
RT: 2.845 min Scan# 852
Delta R.T. -0.000 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion: 83 Resp: 1483

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 97.8 | 51.4 | 77.2# |



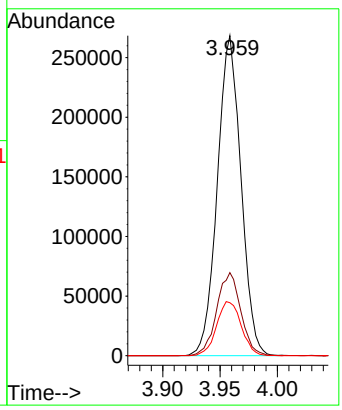


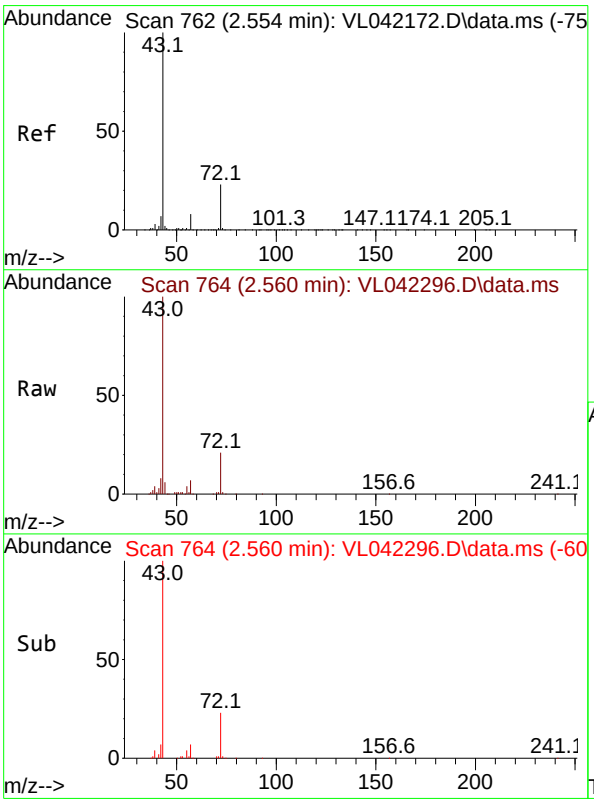

#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-3-3242025

Tgt Ion:114 Resp: 384782

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 26.6 | 20.7 | 31.1 |
| 88 | 17.6 | 15.0 | 22.4 |

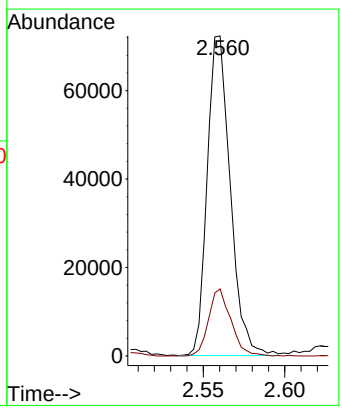


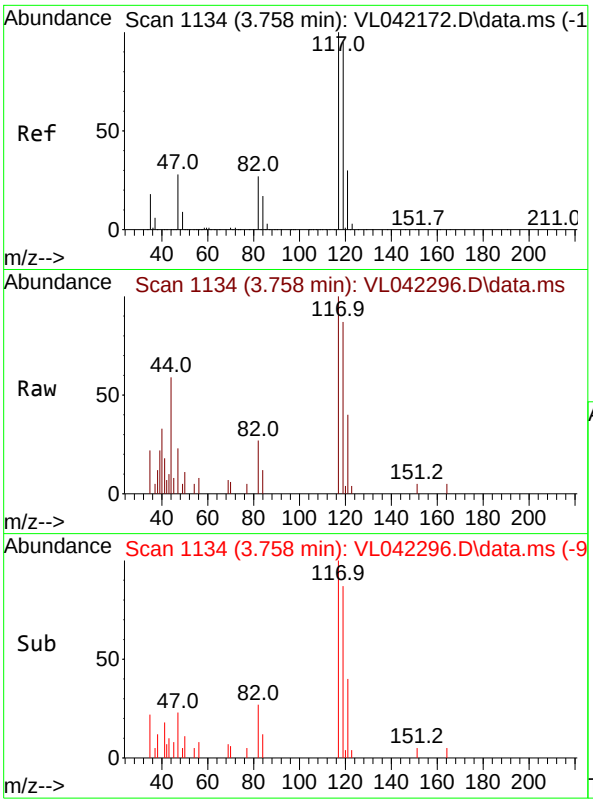




#34
2-Butanone
Concen: 2.548 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.006 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion: 43 Resp: 71103

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 20.4 | 18.2 | 27.2 |



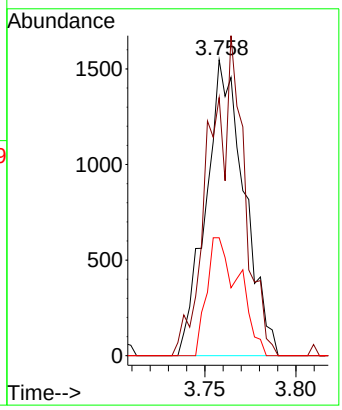


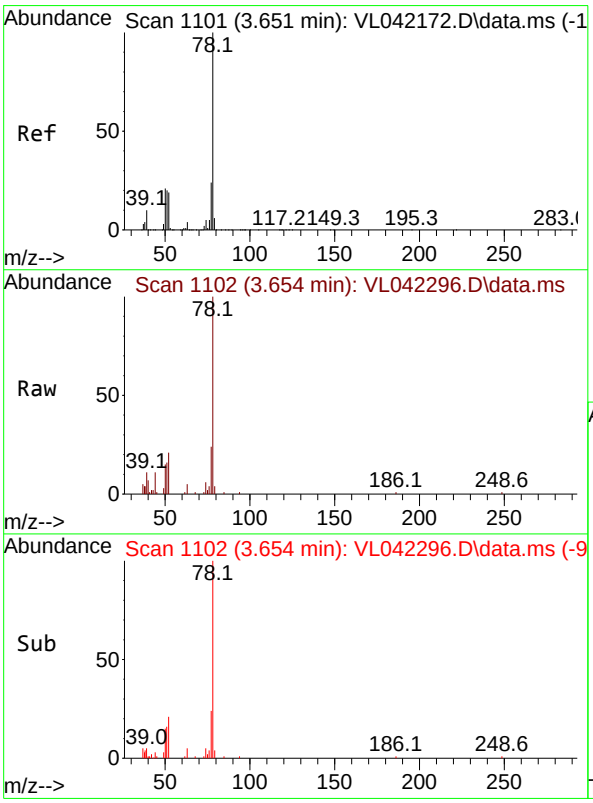

#35
Carbon Tetrachloride
Concen: 0.076 ppbv
RT: 3.758 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-3-3242025

Tgt Ion:117 Resp: 2271

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 87.2 | 76.2 | 114.2 |
| 121 | 39.9 | 24.2 | 36.4# |

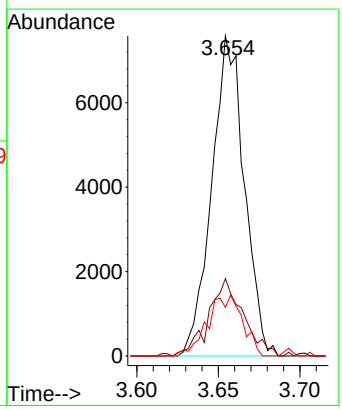


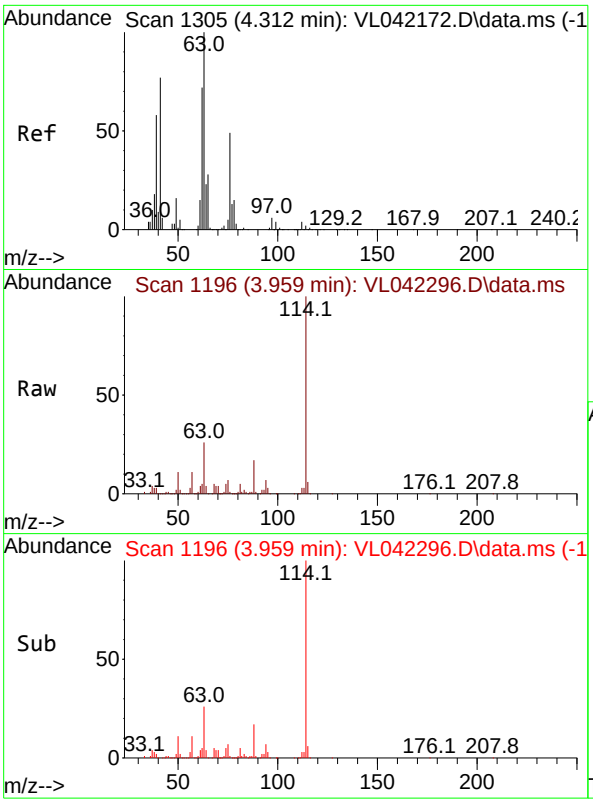




#36
Benzene
Concen: 0.276 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion: 78 Resp: 10547

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.2 | 19.1 | 28.7 |
| 50 | 15.2 | 16.6 | 24.8# |



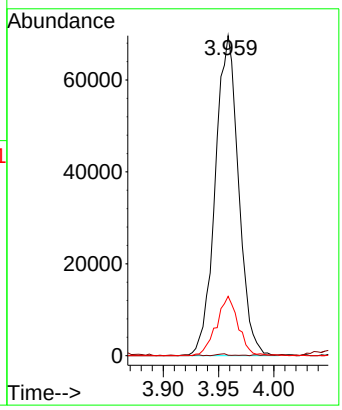


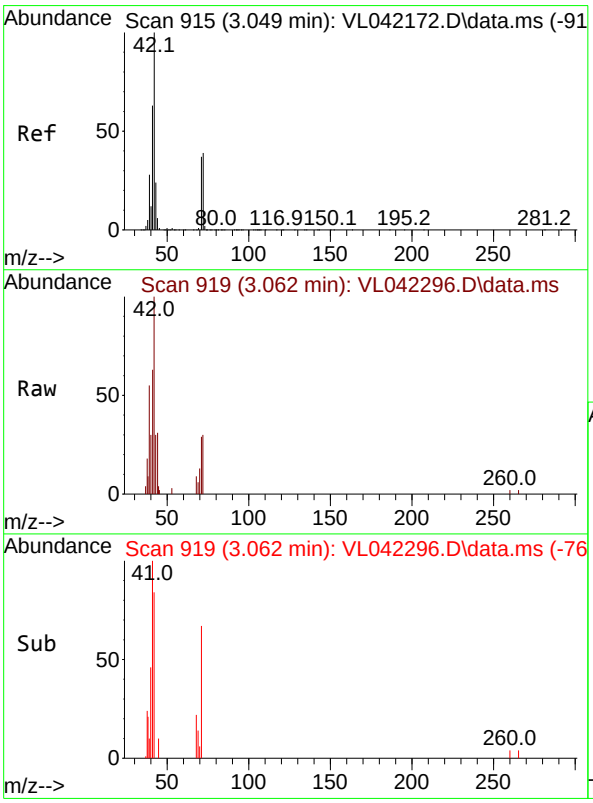

#39
1,2-Dichloropropane
Concen: 7.346 ppbv
RT: 3.959 min Scan# 11
Delta R.T. -0.353 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-3-3242025

Tgt Ion: 63 Resp: 102058

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 0.2 | 61.7 | 92.5# |
| 62 | 18.5 | 57.6 | 86.4# |

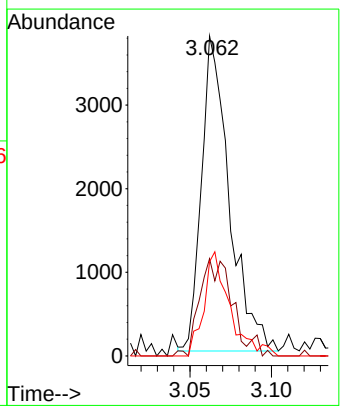


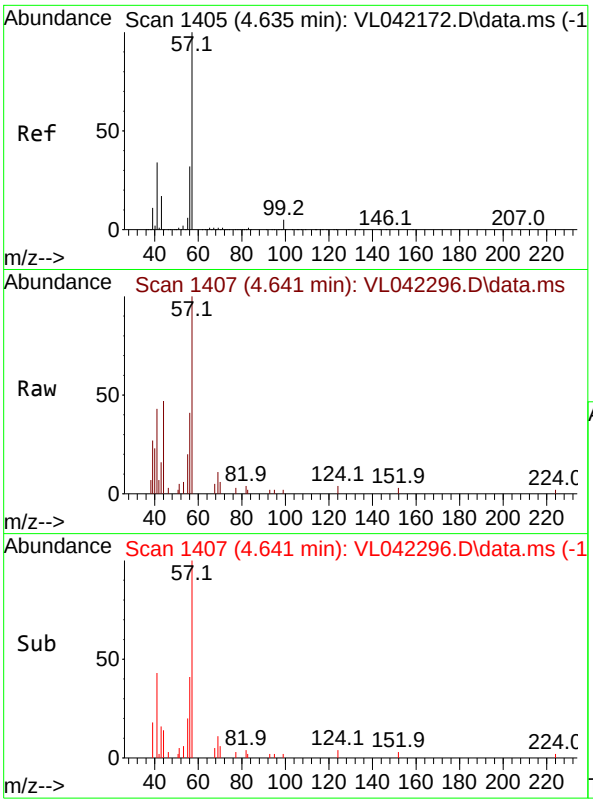




#41
Tetrahydrofuran
Concen: 0.279 ppbv
RT: 3.062 min Scan# 919
Delta R.T. 0.013 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion: 42 Resp: 4483

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 36.6 | 31.4 | 47.0 |
| 71 | 30.6 | 30.2 | 45.4 |



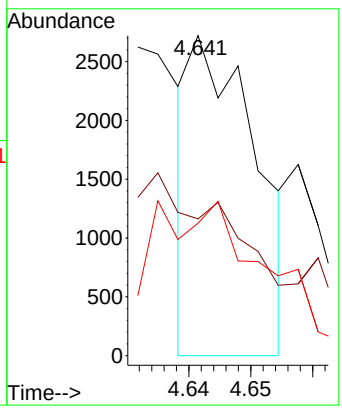


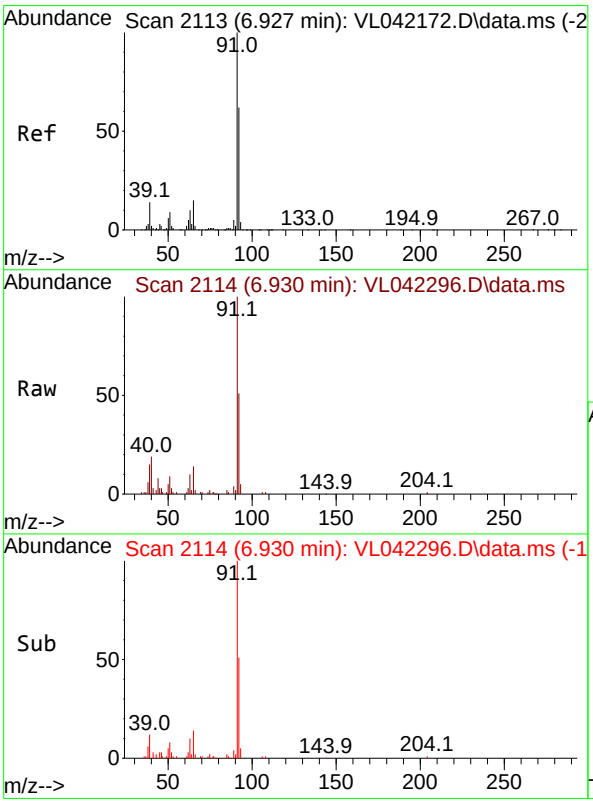

#44
2,2,4-Trimethylpentane
Concen: 0.031 ppbv
RT: 4.641 min Scan# 14
Delta R.T. 0.006 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-3-3242025

Tgt Ion: 57 Resp: 2009

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 0.0 | 26.8 | 40.2# |
| 56 | 0.0 | 25.6 | 38.4# |

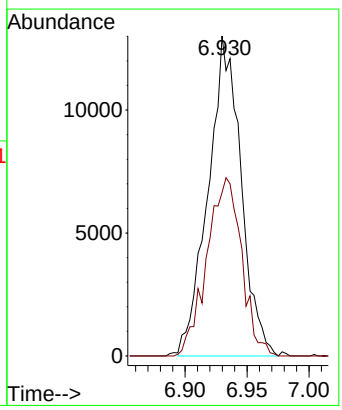


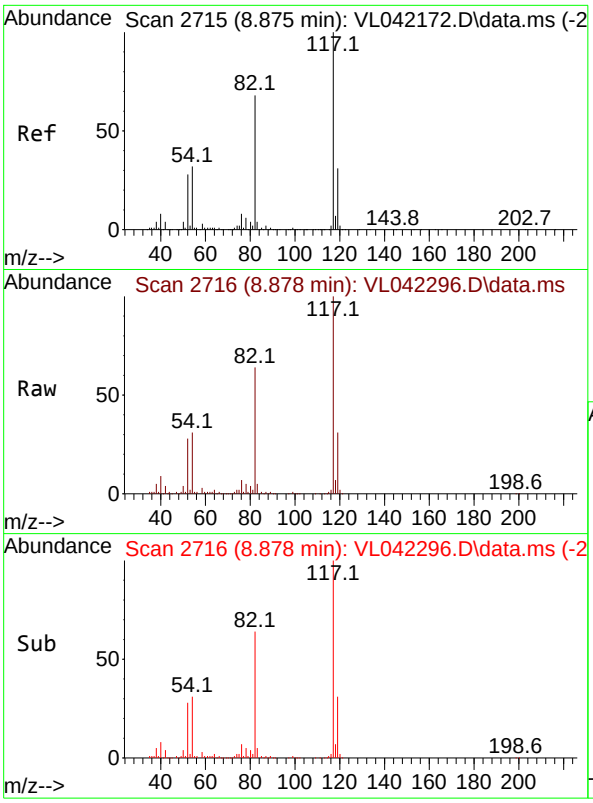




#53
Toluene
Concen: 0.532 ppbv
RT: 6.930 min Scan# 2114
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion: 91 Resp: 24055

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 58.8 | 48.4 | 72.6 |



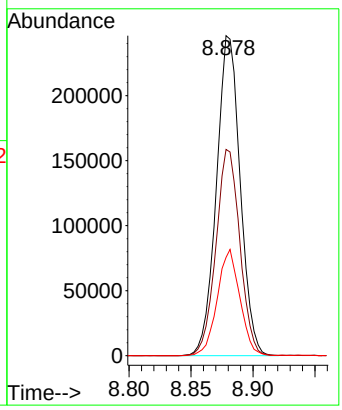


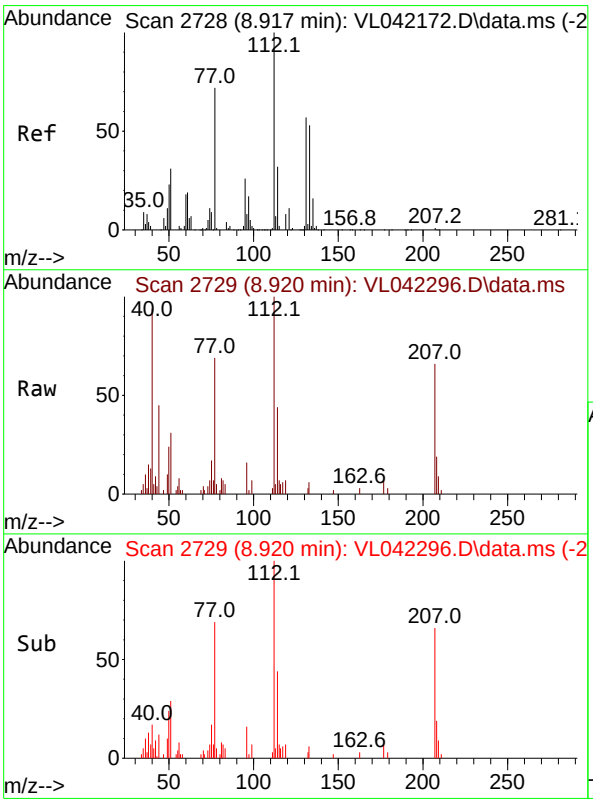

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-3-3242025

Tgt Ion:117 Resp: 329132

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 64.9 | 55.8 | 83.6 |
| 119 | 31.8 | 25.5 | 38.3 |

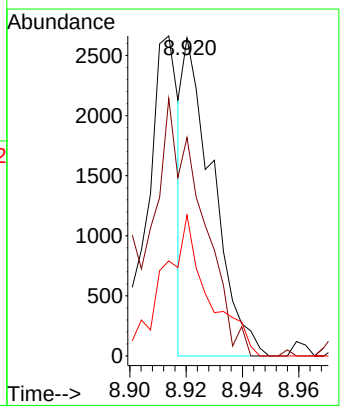


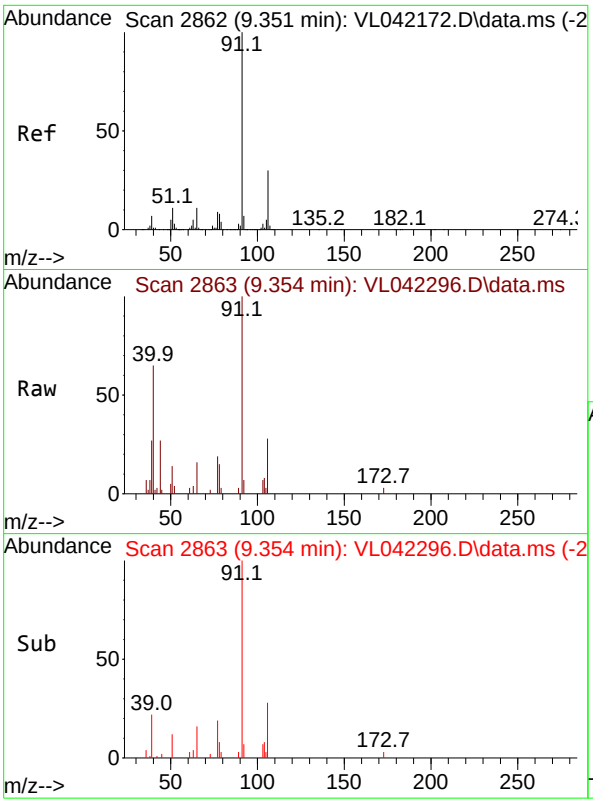




#57
Chlorobenzene
Concen: 0.062 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion:112 Resp: 1926

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 65.6 | 58.2 | 87.2 |
| 114 | 42.3 | 29.1 | 35.5# |



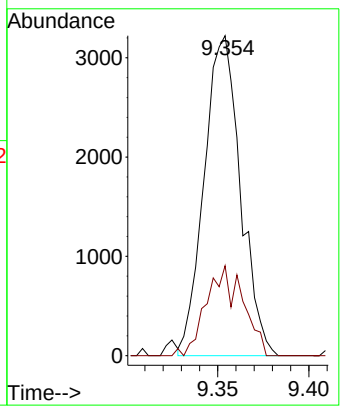


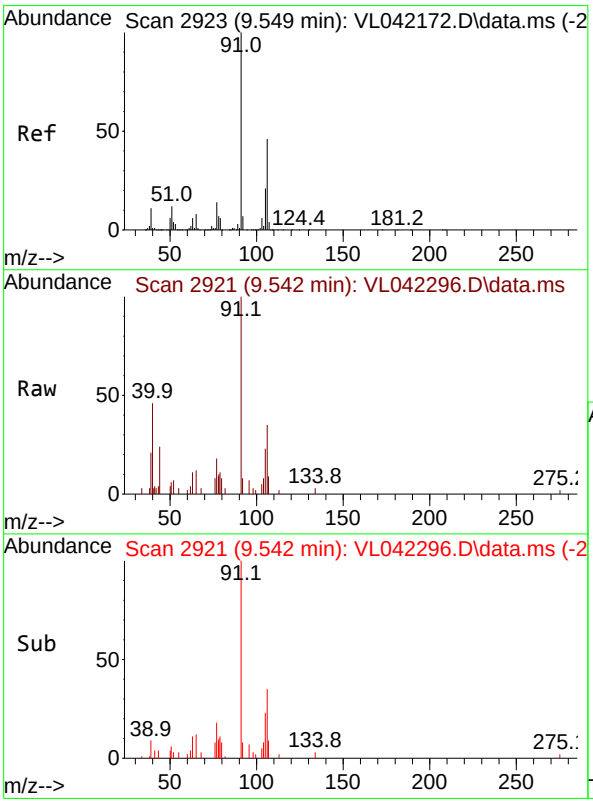

#58
Ethyl Benzene
Concen: 0.076 ppbv
RT: 9.354 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-3-3242025

Tgt Ion: 91 Resp: 4472

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 28.1 | 24.2 | 36.2 |

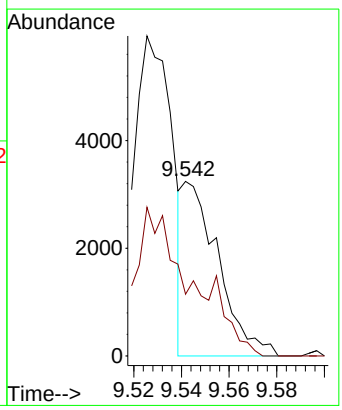


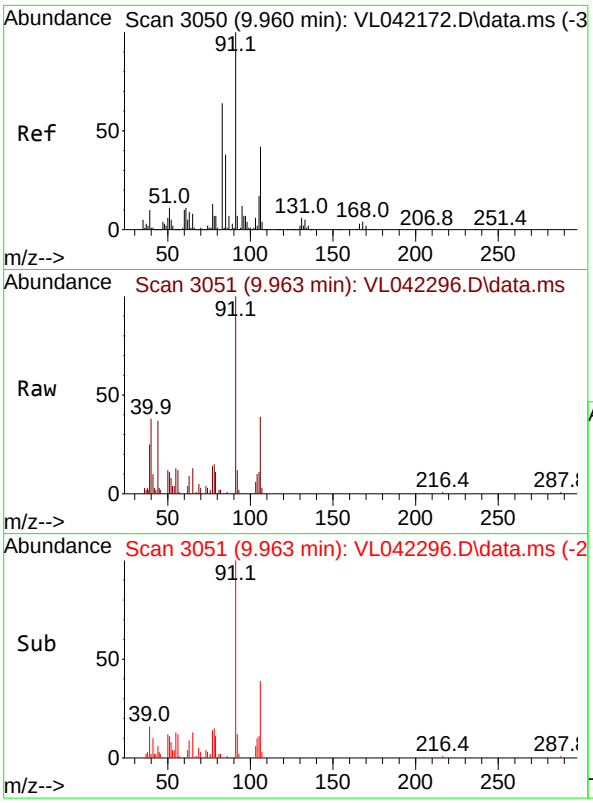




#59
m/p-Xylene
Concen: 0.072 ppbv
RT: 9.542 min Scan# 2921
Delta R.T. -0.007 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion: 91 Resp: 3344

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 0.0 | 36.4 | 54.6# |



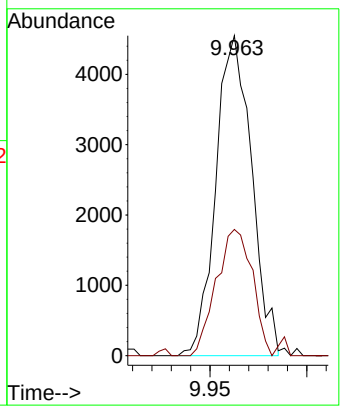


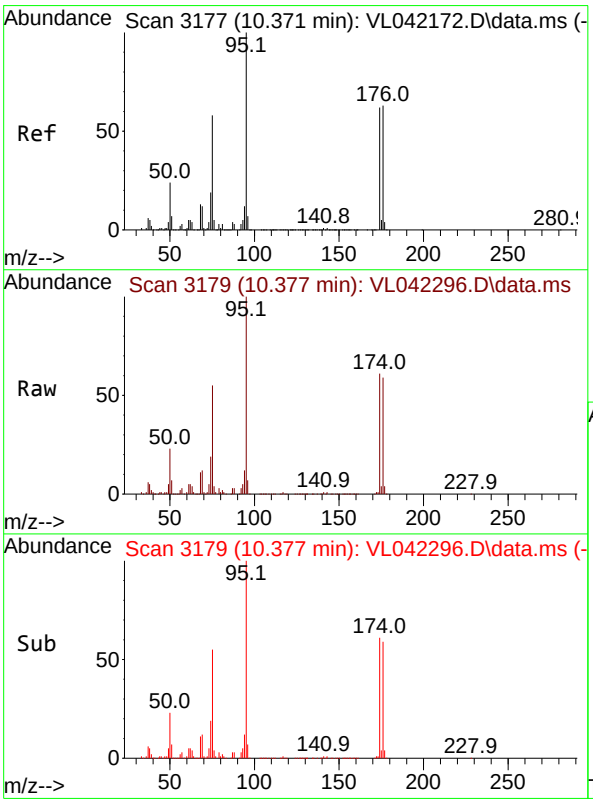

#60
o-Xylene
Concen: 0.125 ppbv
RT: 9.963 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-3-3242025

Tgt Ion: 91 Resp: 5830

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 41.2 | 20.8 | 62.5 |

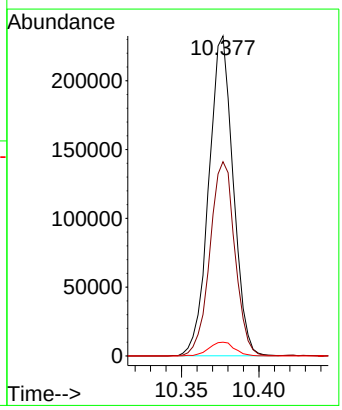


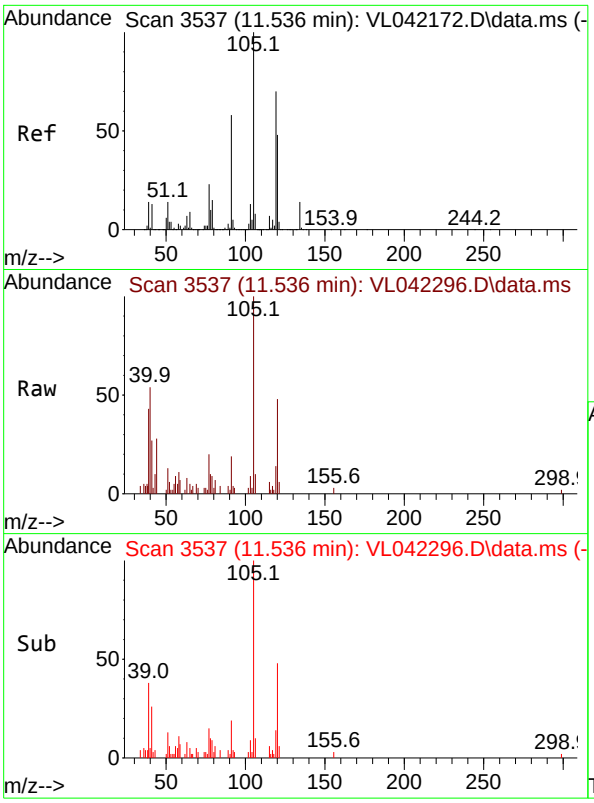




#68
1-Bromo-4-Fluorobenzene
Concen: 9.393 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.006 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

Tgt Ion: 95 Resp: 253889

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 62.7 | 50.6 | 76.0 |
| 175 | 4.6 | 3.8 | 5.6 |



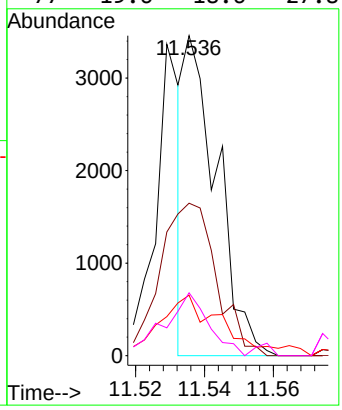



#74
1,2,4-Trimethylbenzene
Concen: 0.039 ppbv
RT: 11.536 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042296.D
Acq: 09 Apr 2025 16:57

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B9-3-3242025

Tgt Ion:105 Resp: 2269

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.6 | 38.6 | 58.0 |
| 91 | 16.6 | 46.2 | 69.2# |
| 77 | 19.6 | 18.6 | 27.8 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042312.D
Acq On : 11 Apr 2025 09:50
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Quant Time: Apr 11 22:56:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.787 | 49 | 183700 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.959 | 114 | 463746 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.885 | 117 | 401340 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95 | 318204 | 9.655 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 96.500% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.499 | 85 | 264775 | 9.762 | ppbv | 100 |
| 3) Chlorodifluoromethane | 1.476 | 51 | 287991 | 10.394 | ppbv | 97 |
| 4) Chloromethane | 1.531 | 50 | 111786 | 10.085 | ppbv | 98 |
| 5) Vinyl Chloride | 1.580 | 62 | 102342 | 8.713 | ppbv | 95 |
| 6) Bromomethane | 1.667 | 94 | 43054 | 8.571 | ppbv | 99 |
| 7) Chloroethane | 1.703 | 64 | 41946 | 9.427 | ppbv | 98 |
| 8) Dichlorotetrafluoroethane | 1.554 | 85 | 224489 | 9.719 | ppbv | 94 |
| 9) Propene | 1.483 | 41 | 117677 | 9.266 | ppbv | 99 |
| 10) Heptane | 4.981 | 43 | 334707 | 9.908 | ppbv | 100 |
| 11) Trichlorofluoromethane | 1.877 | 101 | 250122 | 9.477 | ppbv | 99 |
| 12) 1,1,2-Trichlorotrifluo... | 2.140 | 101 | 193510 | 8.920 | ppbv | 97 |
| 13) Ethanol | 1.722 | 45 | 5849 | 4.872 | ppbv | 89 |
| 14) Bromoethene | 1.780 | 108 | 73294 | 8.820 | ppbv | 100 |
| 15) Acetone | 1.835 | 43 | 231724 | 9.019 | ppbv | 97 |
| 16) 1,3-Butadiene | 1.609 | 39 | 112297 | 8.950 | ppbv | 97 |
| 17) tert-Butyl alcohol | 2.039 | 59 | 255575 | 7.987 | ppbv | 99 |
| 18) 1,1-Dichloroethene | 2.033 | 96 | 89512 | 8.827 | ppbv | 98 |
| 19) Isopropyl Alcohol | 1.887 | 45 | 125233 | 8.639 | ppbv | 92 |
| 20) Methylene Chloride | 2.062 | 84 | 76968 | 8.044 | ppbv | 93 |
| 21) Allyl Chloride | 2.098 | 41 | 162998 | 8.996 | ppbv | 97 |
| 22) trans-1,2-Dichloroethene | 2.340 | 96 | 101974 | 8.700 | ppbv | 95 |
| 23) Vinyl Acetate | 2.463 | 43 | 95152 | 8.557 | ppbv | 99 |
| 24) 1,1-Dichloroethane | 2.408 | 63 | 207862 | 9.567 | ppbv | 99 |
| 25) Ethyl Acetate | 2.835 | 43 | 678920 | 10.182 | ppbv | 99 |
| 26) Hexane | 2.826 | 57 | 256866 | 9.973 | ppbv | 98 |
| 27) Carbon Disulfide | 2.149 | 76 | 243367 | 8.812 | ppbv | 98 |
| 28) Methyl tert-Butyl Ether | 2.441 | 73 | 129141 | 8.053 | ppbv | 96 |
| 29) Chloroform | 2.848 | 83 | 393638 | 10.443 | ppbv | 98 |
| 30) Cyclohexane | 3.858 | 84 | 203526 | 9.100 | ppbv | 97 |
| 31) cis-1,2-Dichloroethene | 2.722 | 61 | 247194 | 9.454 | ppbv | 97 |
| 32) 1,1,1-Trichloroethane | 3.370 | 97 | 380312 | 8.813 | ppbv | 98 |
| 34) 2-Butanone | 2.557 | 43 | 380682 | 11.321 | ppbv | 98 |
| 35) Carbon Tetrachloride | 3.764 | 117 | 390140 | 10.769 | ppbv | 98 |
| 36) Benzene | 3.658 | 78 | 506278 | 11.012 | ppbv | 97 |
| 37) 1,2-Dichloroethane | 3.221 | 62 | 292183 | 11.101 | ppbv | 99 |
| 38) Trichloroethene | 4.551 | 130 | 203156 | 10.591 | ppbv | 96 |
| 39) 1,2-Dichloropropane | 4.315 | 63 | 185497 | 11.079 | ppbv | 97 |
| 40) 1,4-Dioxane | 4.583 | 88 | 82376 | 9.270 | ppbv # | 98 |
| 41) Tetrahydrofuran | 3.056 | 42 | 216646 | 11.188 | ppbv | 93 |
| 42) Bromodichloromethane | 4.493 | 83 | 413250 | 11.389 | ppbv | 99 |
| 43) Methyl Methacrylate | 4.884 | 69 | 184472 | 9.478 | ppbv | 96 |
| 44) 2,2,4-Trimethylpentane | 4.642 | 57 | 872871 | 11.235 | ppbv | 98 |
| 45) t-1,3-Dichloropropene | 6.422 | 75 | 176804 | 8.467 | ppbv | 97 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042312.D
Acq On : 11 Apr 2025 09:50
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Quant Time: Apr 11 22:56:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

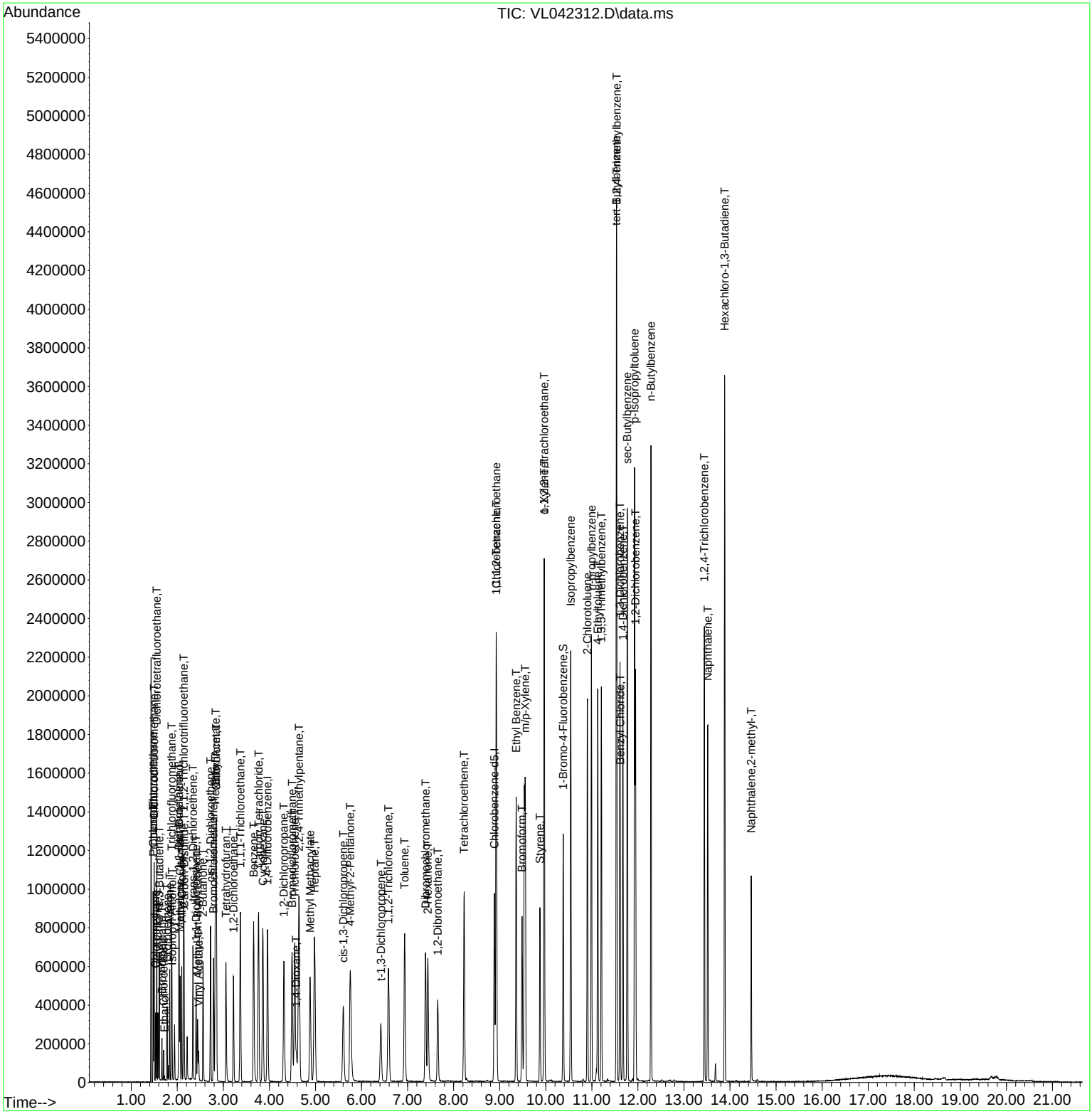
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.603 | 75 | 236039 | 9.222 | ppbv | | 99 |
| 47) 1,1,2-Trichloroethane | 6.583 | 97 | 202891 | 11.463 | ppbv | | 98 |
| 48) Dibromochloromethane | 7.389 | 129 | 333128 | 11.106 | ppbv | | 99 |
| 49) Bromoform | 9.484 | 173 | 294489 | 10.935 | ppbv | | 100 |
| 50) 4-Methyl-2-Pentanone | 5.755 | 43 | 531851 | 9.980 | ppbv | | 95 |
| 51) 2-Hexanone | 7.438 | 43 | 424035 | 9.689 | ppbv | # | 94 |
| 52) Tetrachloroethene | 8.224 | 164 | 170989 | 9.378 | ppbv | | 97 |
| 53) Toluene | 6.936 | 91 | 547579 | 10.048 | ppbv | | 99 |
| 54) 1,2-Dibromoethane | 7.655 | 107 | 267225 | 10.831 | ppbv | | 99 |
| 56) 1,1,1,2-Tetrachloroethane | 8.927 | 131 | 271350 | 12.283 | ppbv | | 100 |
| 57) Chlorobenzene | 8.924 | 112 | 460598 | 12.099 | ppbv | | 98 |
| 58) Ethyl Benzene | 9.357 | 91 | 779227 | 10.931 | ppbv | | 98 |
| 59) m/p-Xylene | 9.552 | 91 | 686600 | 12.062 | ppbv | # | 31 |
| 60) o-Xylene | 9.966 | 91 | 660065 | 11.567 | ppbv | | 96 |
| 61) Styrene | 9.872 | 104 | 291355 | 10.320 | ppbv | | 99 |
| 62) Isopropylbenzene | 10.542 | 105 | 988337 | 11.582 | ppbv | | 98 |
| 63) 1,1,2,2-Tetrachloroethane | 9.966 | 83 | 446341 | 12.873 | ppbv | | 99 |
| 64) n-propylbenzene | 10.992 | 120 | 268681 | 12.231 | ppbv | | 97 |
| 65) tert-Butylbenzene | 11.532 | 119 | 932850 | 11.820 | ppbv | | 98 |
| 66) Benzyl Chloride | 11.616 | 91 | 68675 | 8.201 | ppbv | | 99 |
| 67) sec-Butylbenzene | 11.769 | 105 | 1310042 | 11.942 | ppbv | | 100 |
| 69) p-Isopropyltoluene | 11.927 | 119 | 1107045 | 11.720 | ppbv | | 99 |
| 70) n-Butylbenzene | 12.283 | 91 | 1144571 | 11.848 | ppbv | | 99 |
| 71) 2-Chlorotoluene | 10.904 | 91 | 756562 | 11.423 | ppbv | | 98 |
| 72) 4-Ethyltoluene | 11.128 | 105 | 847821 | 11.932 | ppbv | | 99 |
| 73) 1,3,5-Trimethylbenzene | 11.205 | 105 | 729887 | 11.762 | ppbv | | 99 |
| 74) 1,2,4-Trimethylbenzene | 11.539 | 105 | 819490 | 11.463 | ppbv | | 92 |
| 75) 1,3-Dichlorobenzene | 11.610 | 146 | 492549 | 12.562 | ppbv | | 99 |
| 76) 1,4-Dichlorobenzene | 11.675 | 146 | 488636 | 12.522 | ppbv | | 98 |
| 77) 1,2-Dichlorobenzene | 11.950 | 146 | 494739 | 12.959 | ppbv | | 98 |
| 78) Hexachloro-1,3-Butadiene | 13.882 | 225 | 373025 | 9.599 | ppbv | | 99 |
| 79) Naphthalene | 13.516 | 128 | 824947 | 10.550 | ppbv | | 100 |
| 80) Naphthalene,2-methyl- | 14.458 | 142 | 276556 | 7.212 | ppbv | | 98 |
| 81) 1,2,4-Trichlorobenzene | 13.442 | 180 | 374714 | 10.389 | ppbv | | 99 |

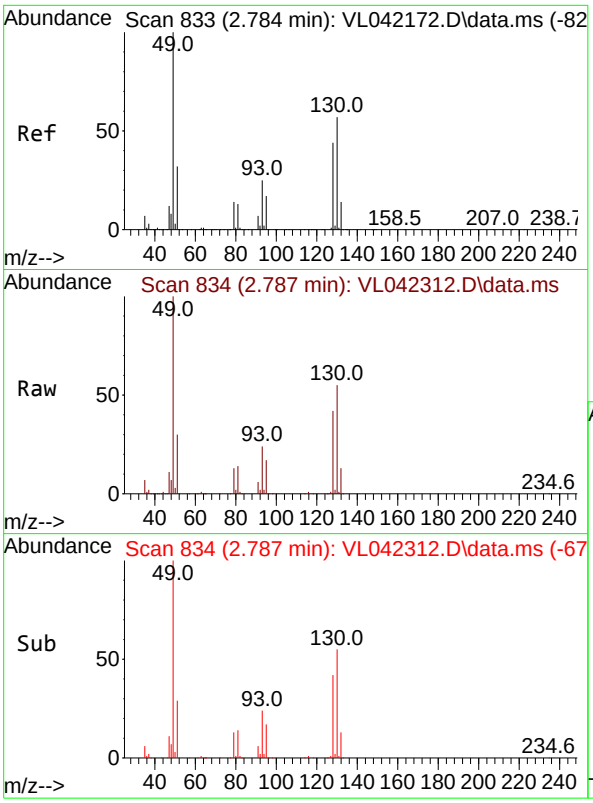
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042312.D
Acq On : 11 Apr 2025 09:50
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Quant Time: Apr 11 22:56:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration



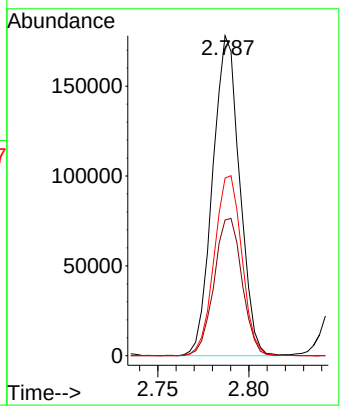


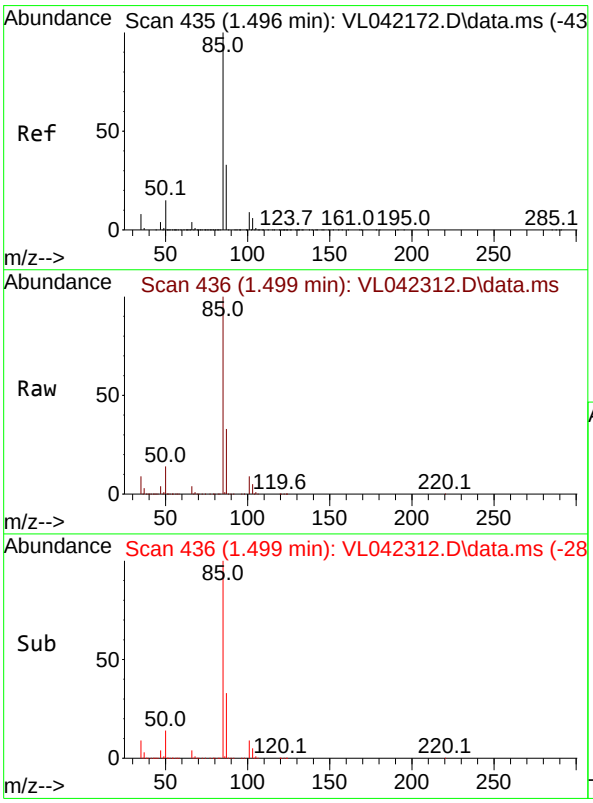

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 49 Resp: 183700

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 44.4 | 22.9 | 68.5 |
| 130 | 57.3 | 28.8 | 86.4 |

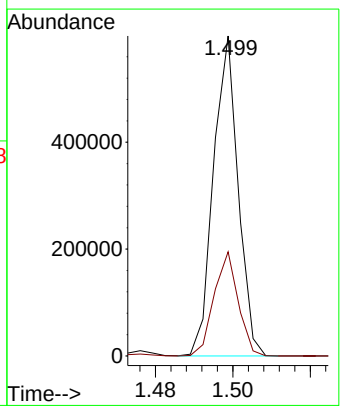


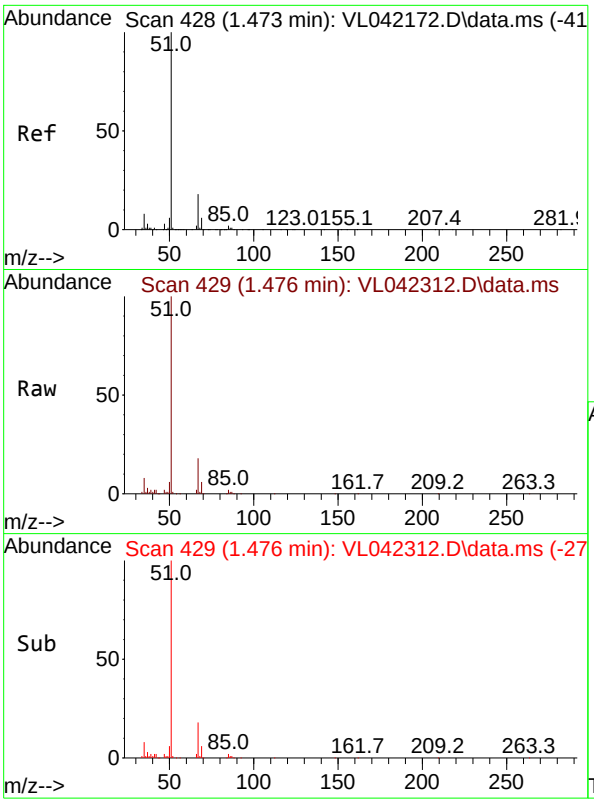




#2
Dichlorodifluoromethane
Concen: 9.762 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 85 Resp: 264775

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.5 | 26.1 | 39.1 |



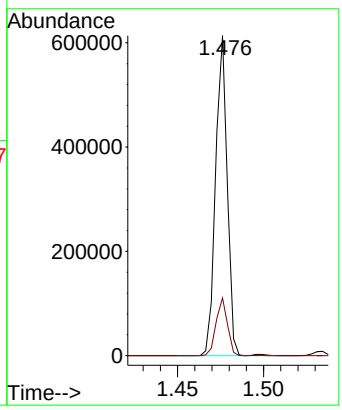


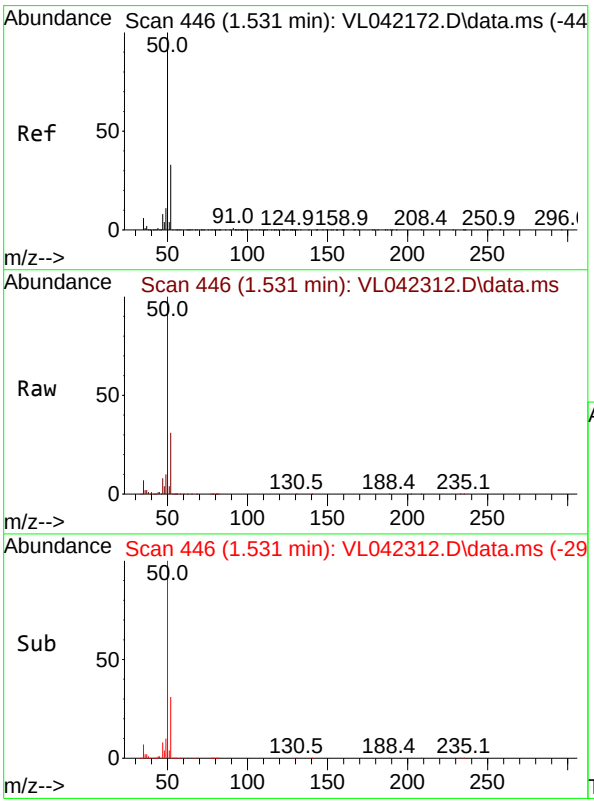

#3
Chlorodifluoromethane
Concen: 10.394 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 51 Resp: 287991

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 17.6 | 15.0 | 22.6 |

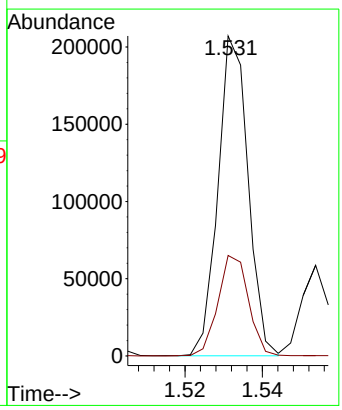


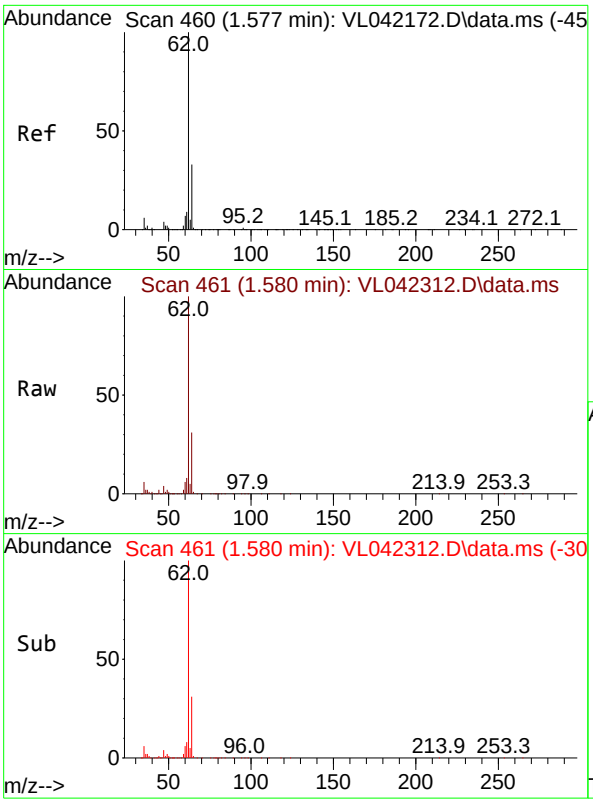




#4
Chloromethane
Concen: 10.085 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 50 Resp: 111786

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 31.3 | 26.1 | 39.1 |



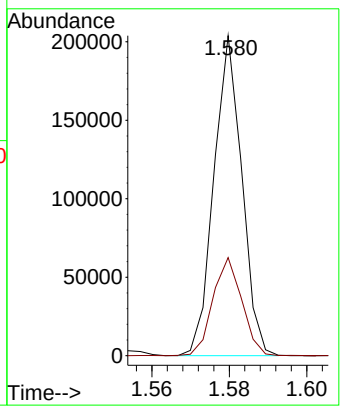


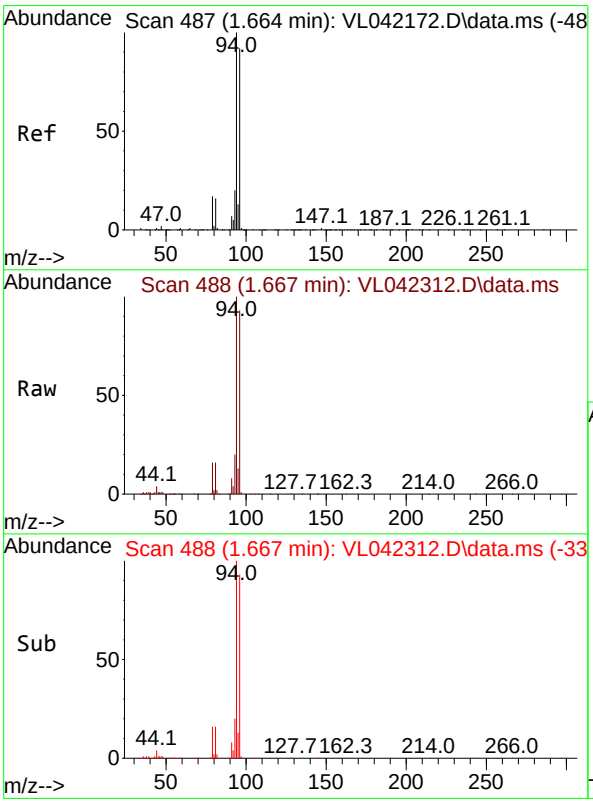

#5
Vinyl Chloride
Concen: 8.713 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 62 Resp: 102342

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 30.6 | 26.6 | 40.0 |

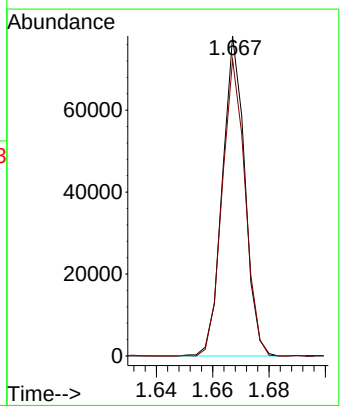


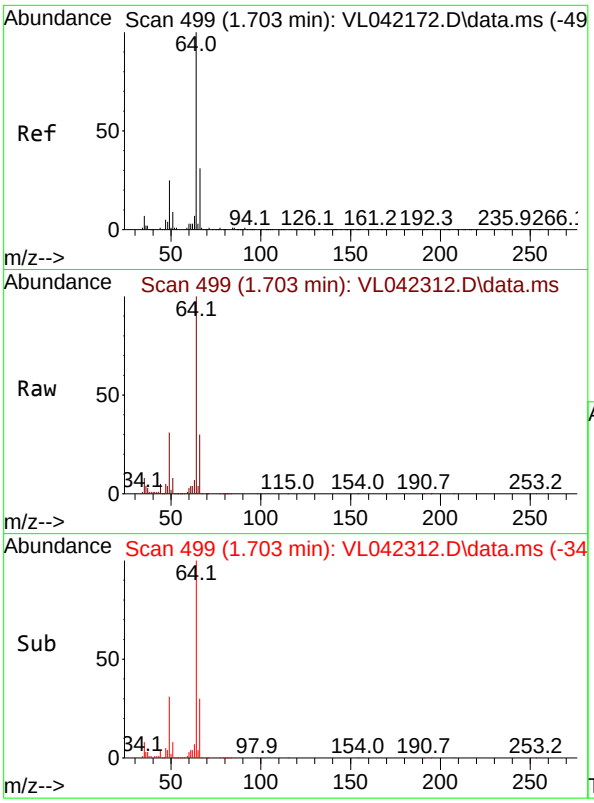




#6
Bromomethane
Concen: 8.571 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 94 Resp: 43054

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 92.7 | 73.1 | 109.7 |



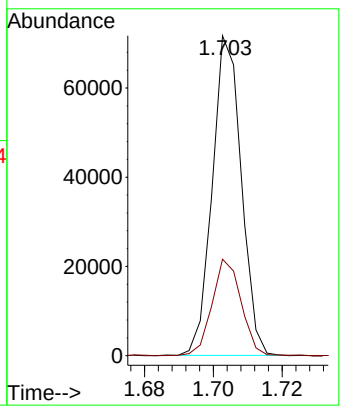


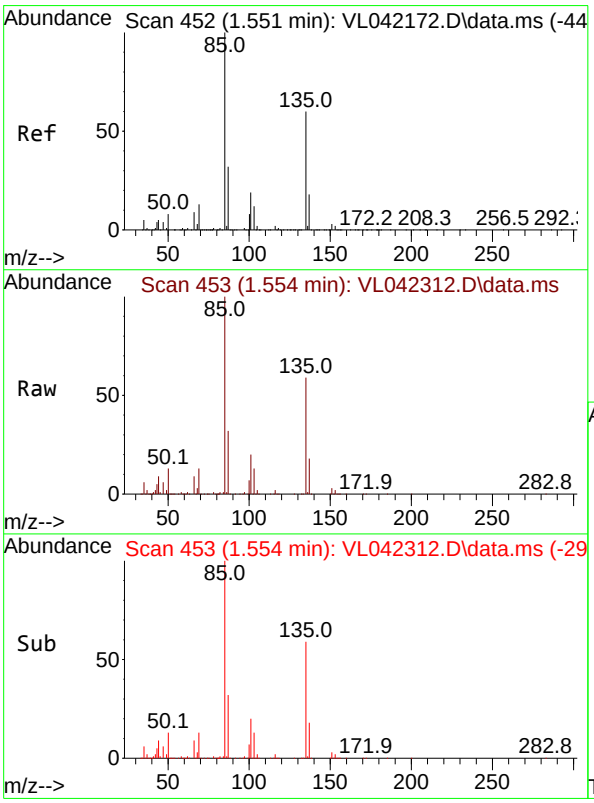

#7
Chloroethane
Concen: 9.427 ppbv
RT: 1.703 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 64 Resp: 41946

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 30.1 | 25.2 | 37.8 |

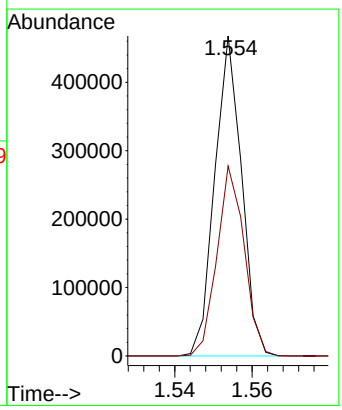


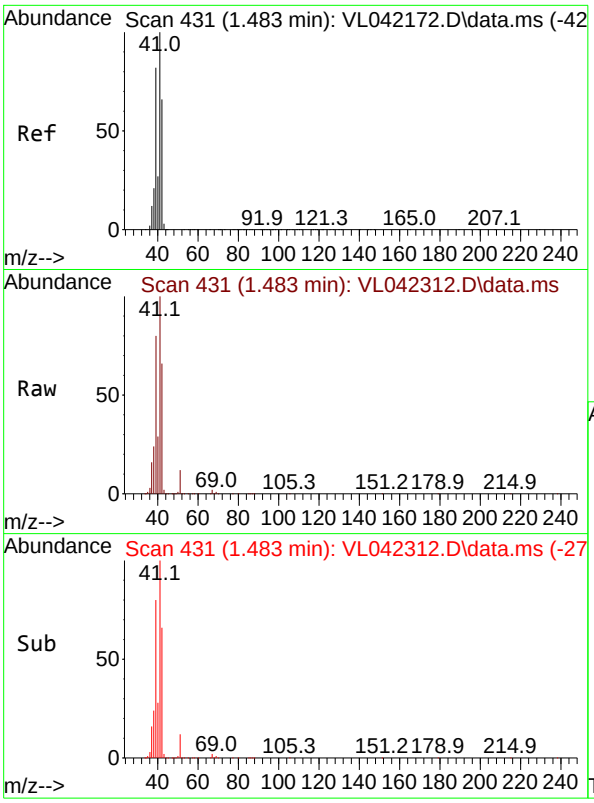




#8
Dichlorotetrafluoroethane
Concen: 9.719 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 85 Resp: 224489

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 60.5 | 52.4 | 78.6 |



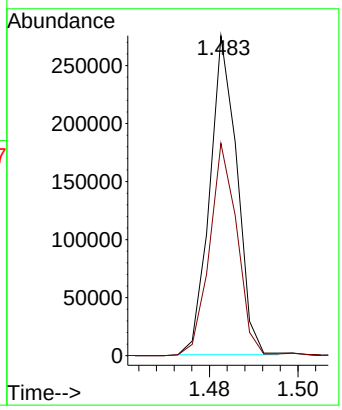


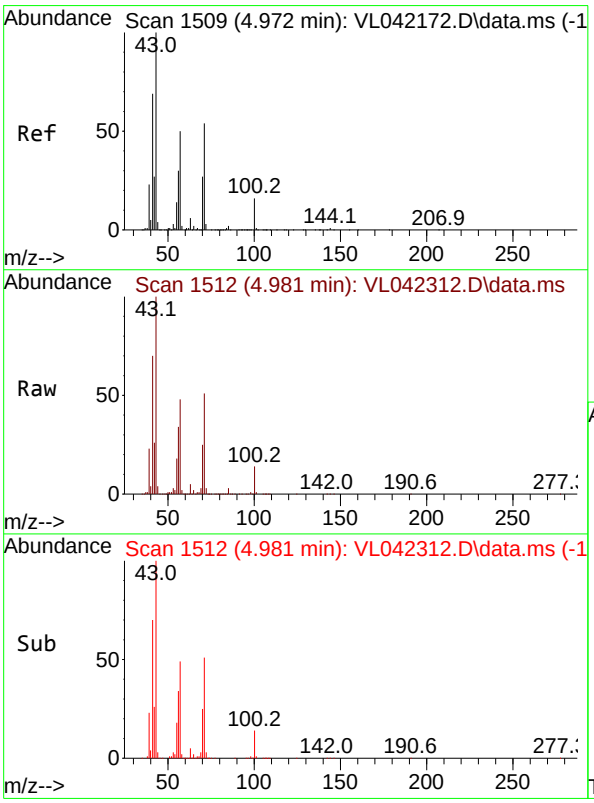

#9
Propene
Concen: 9.266 ppbv
RT: 1.483 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 41 Resp: 117677

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 68.3 | 55.4 | 83.2 |

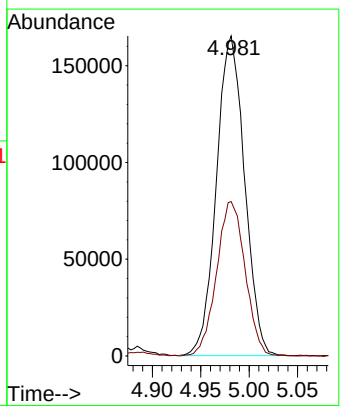


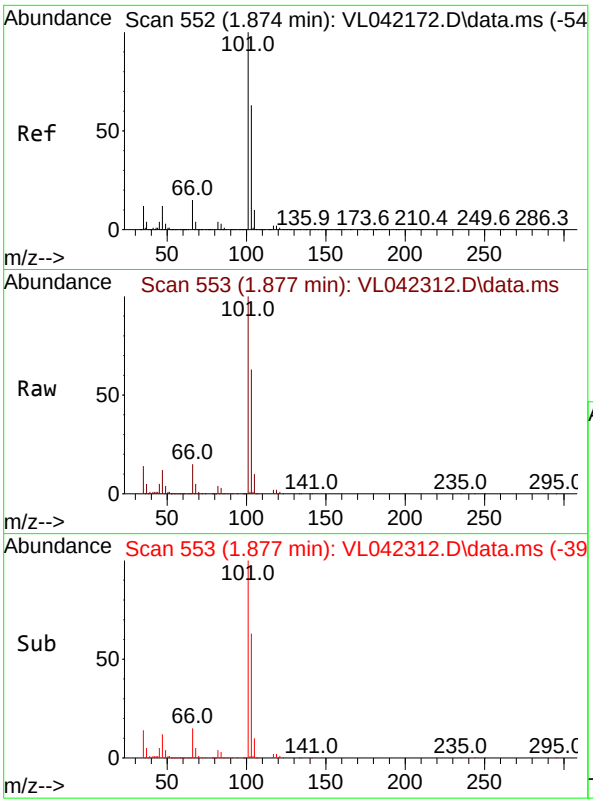




#10
Heptane
Concen: 9.908 ppbv
RT: 4.981 min Scan# 1512
Delta R.T. 0.009 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 43 Resp: 334707

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 49.0 | 39.4 | 59.2 |



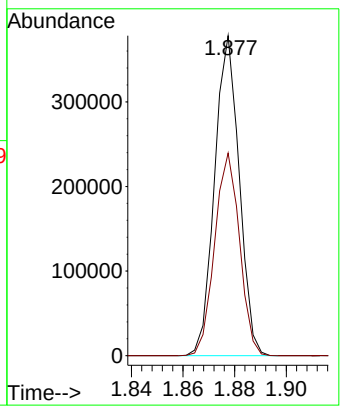


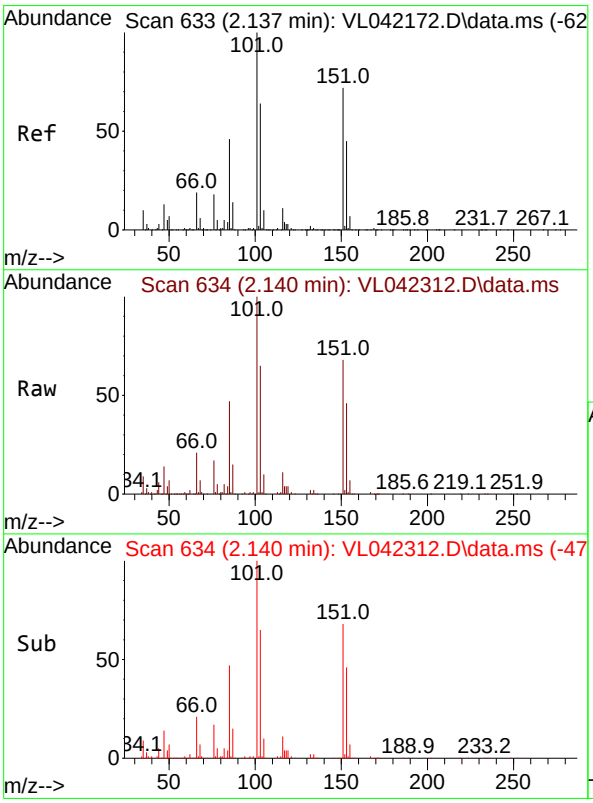

#11
Trichlorofluoromethane
Concen: 9.477 ppbv
RT: 1.877 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:101 Resp: 250122

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.3 | 50.2 | 75.2 |

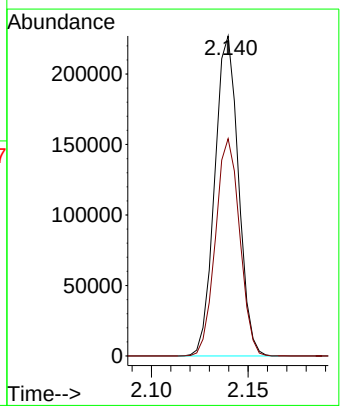


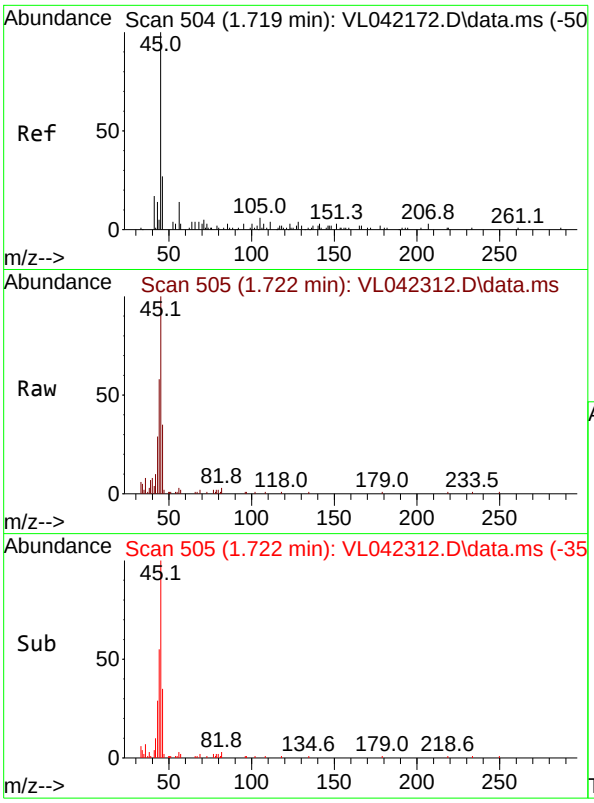




#12
1,1,2-Trichlorotrifluoroethane
Concen: 8.920 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:101 Resp: 193510

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 69.2 | 57.1 | 85.7 |



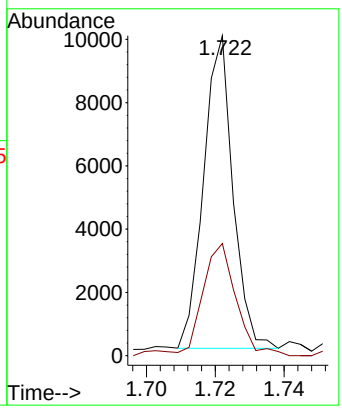


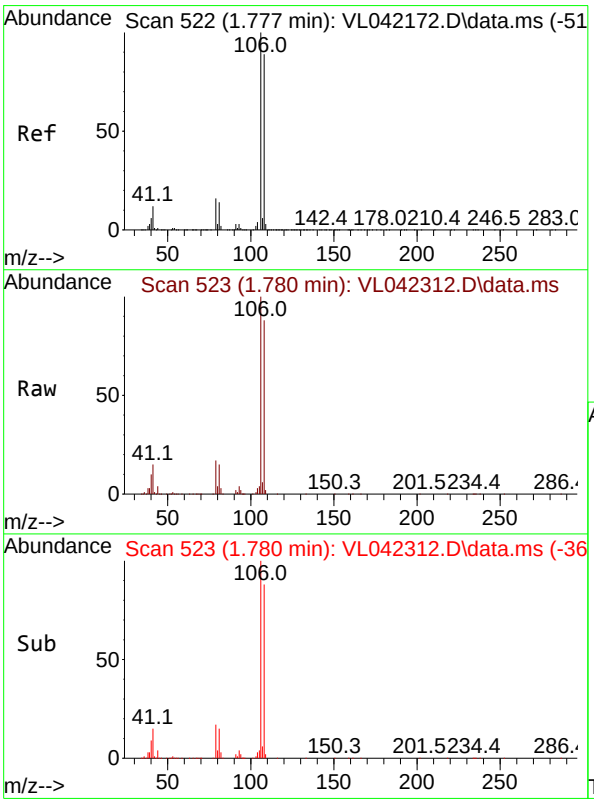

#13
Ethanol
Concen: 4.872 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 45 Resp: 5849

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 43.0 | 20.2 | 80.8 |

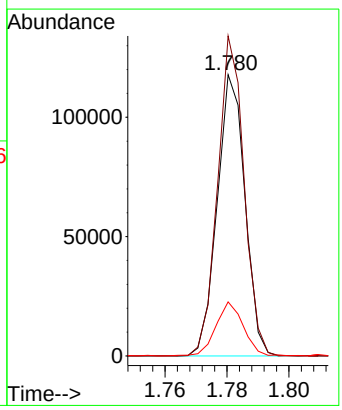


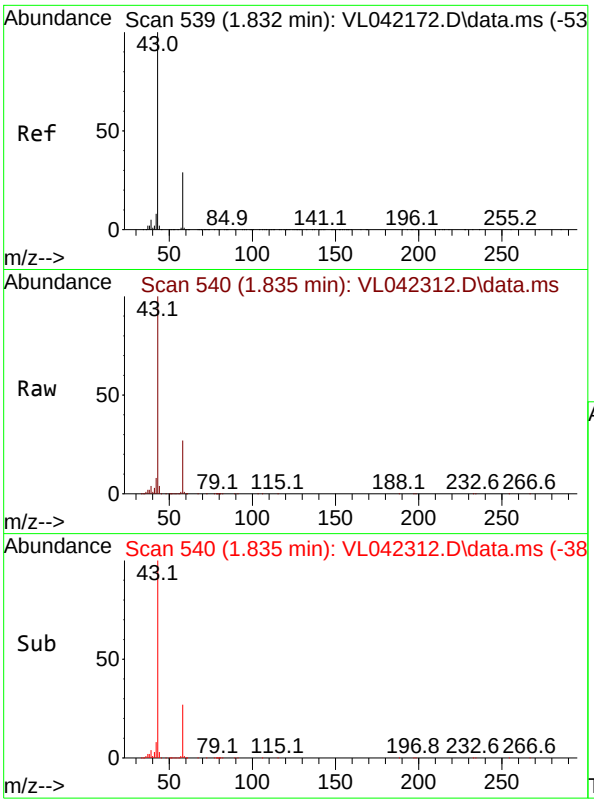




#14
Bromoethene
Concen: 8.820 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:108 Resp: 73294

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 106 | 108.4 | 86.8 | 130.2 |
| 79 | 19.5 | 15.0 | 22.6 |



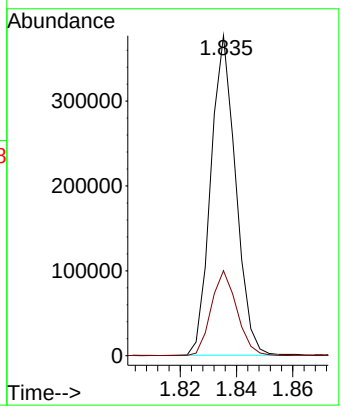


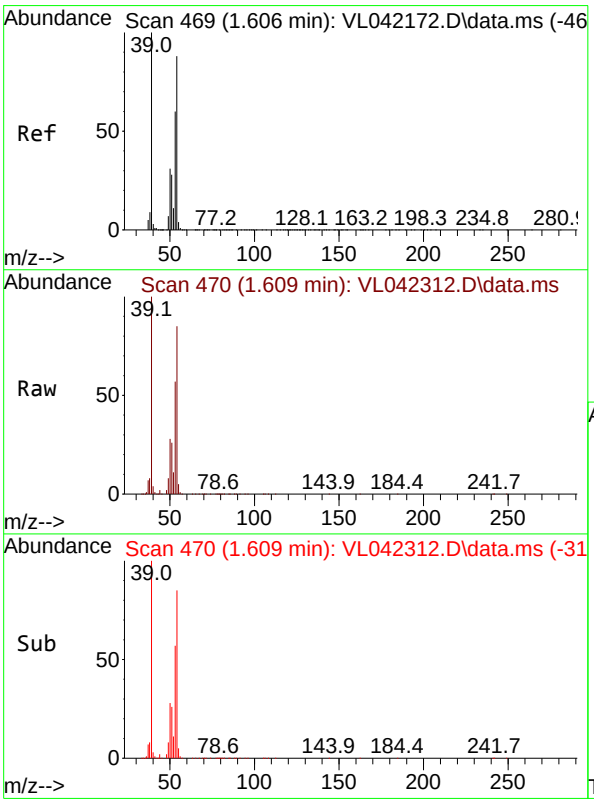

#15
Acetone
Concen: 9.019 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 43 Resp: 231724

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 27.5 | 23.2 | 34.8 |

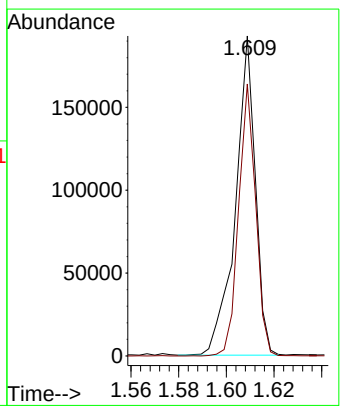


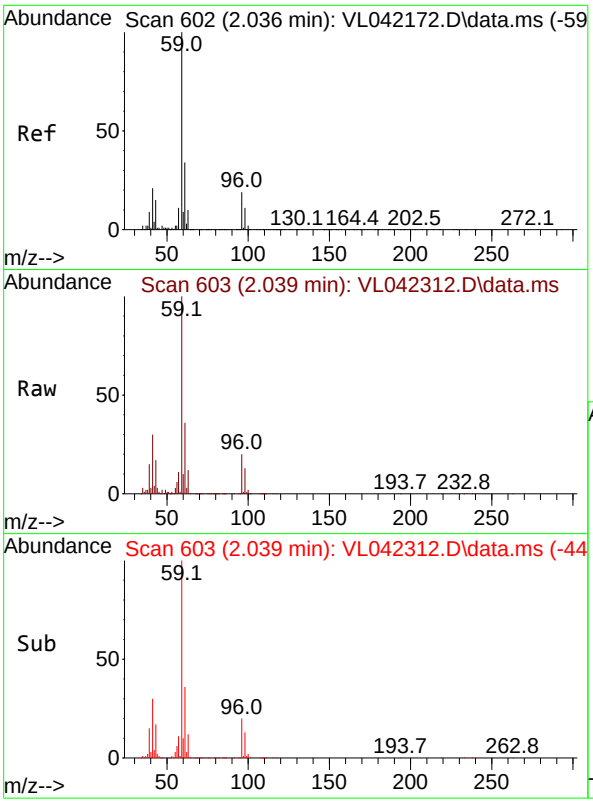




#16
1,3-Butadiene
Concen: 8.950 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 39 Resp: 112297

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 73.5 | 60.7 | 91.1 |



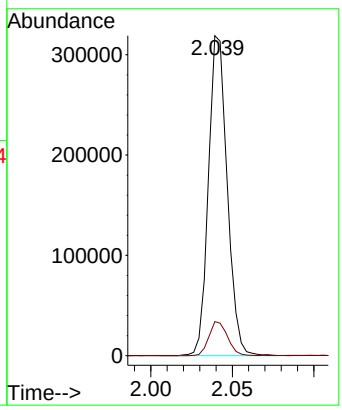


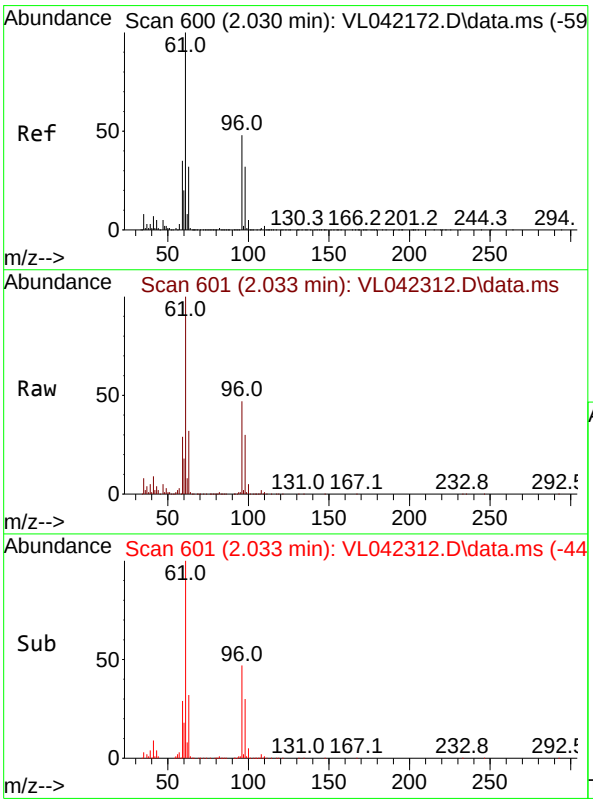

#17
tert-Butyl alcohol
Concen: 7.987 ppbv
RT: 2.039 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 59 Resp: 255575

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.6 | 8.9 | 13.3 |

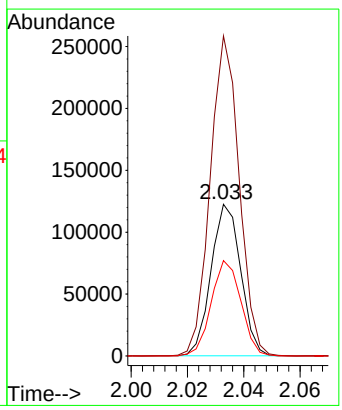


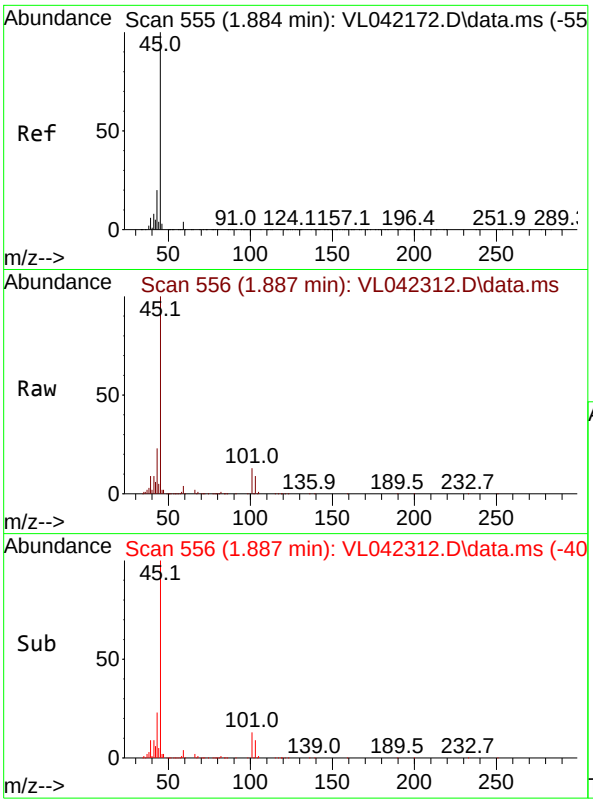




#18
1,1-Dichloroethene
Concen: 8.827 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 96 Resp: 89512

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 210.8 | 167.6 | 251.4 |
| 98 | 62.9 | 53.5 | 80.3 |



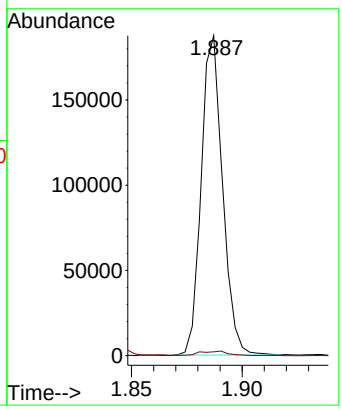


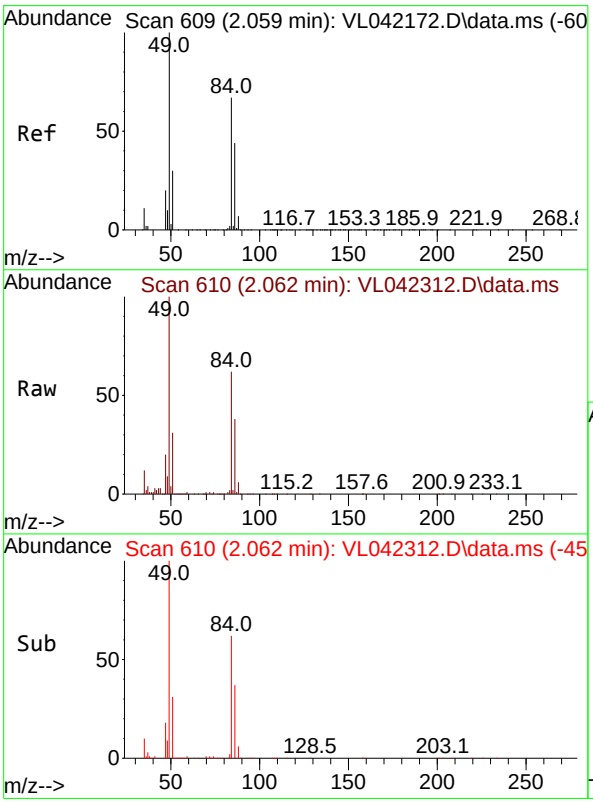

#19
Isopropyl Alcohol
Concen: 8.639 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 45 Resp: 125233

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 51.2 | 36.9 | 55.3 |

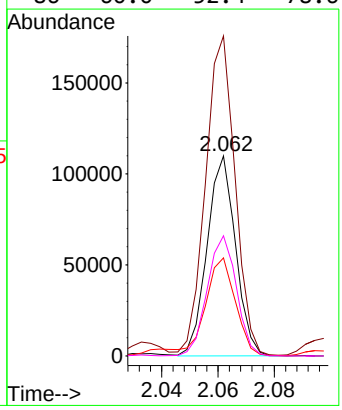


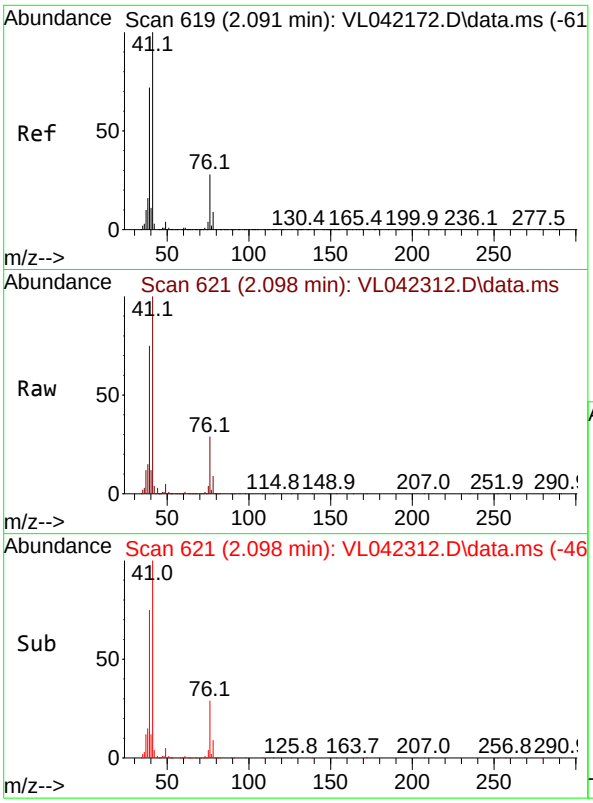




#20
Methylene Chloride
Concen: 8.044 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 84 Resp: 76968

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 159.9 | 120.2 | 180.4 |
| 51 | 48.8 | 37.4 | 56.0 |
| 86 | 60.0 | 52.4 | 78.6 |



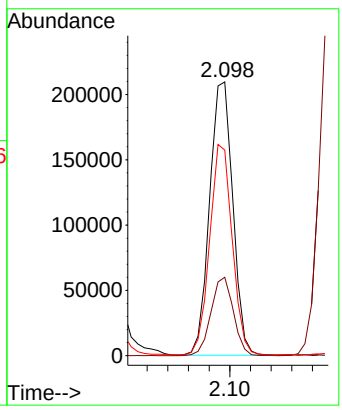


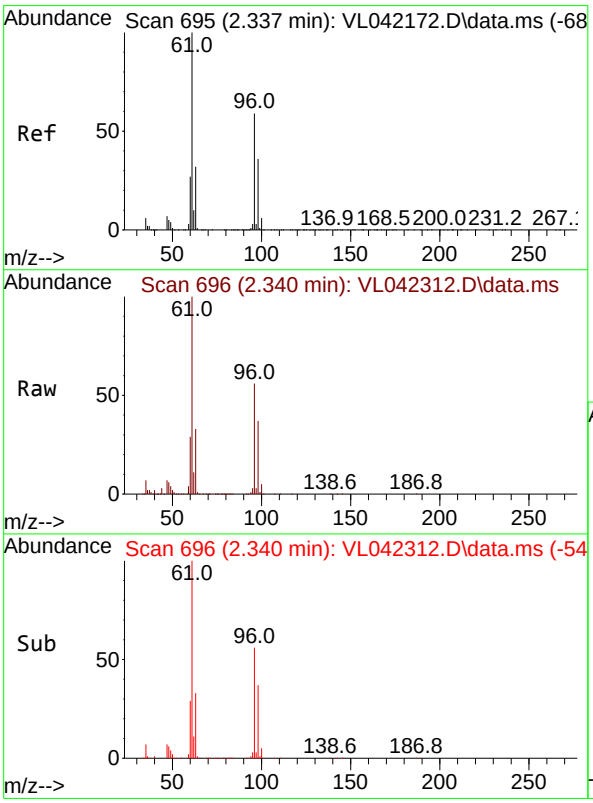

#21
Allyl Chloride
Concen: 8.996 ppbv
RT: 2.098 min Scan# 6
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 41 Resp: 162998

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 27.7 | 24.1 | 36.1 |
| 39 | 74.5 | 61.1 | 91.7 |

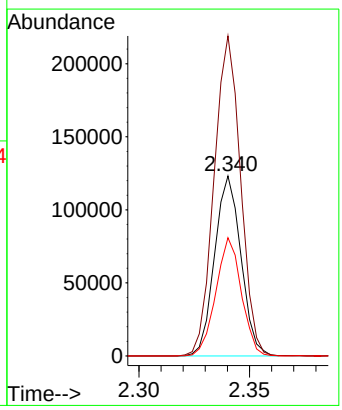


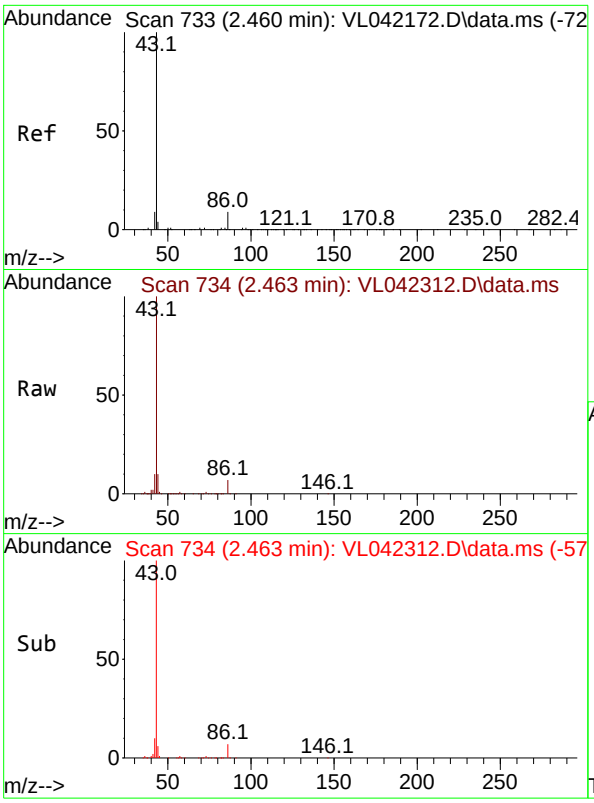




#22
trans-1,2-Dichloroethene
Concen: 8.700 ppbv
RT: 2.340 min Scan# 696
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 96 Resp: 101974

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 177.7 | 136.6 | 204.8 |
| 98 | 65.6 | 49.4 | 74.2 |



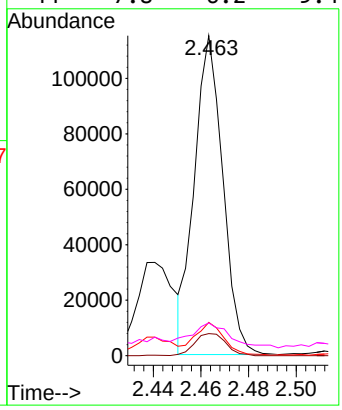


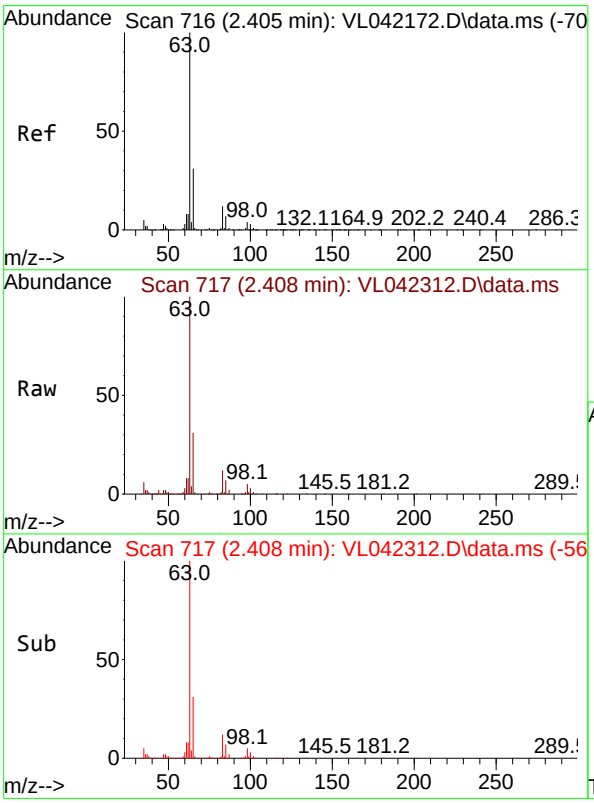

#23
Vinyl Acetate
Concen: 8.557 ppbv
RT: 2.463 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 43 Resp: 95152

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 6.9 | 5.5 | 8.3 |
| 42 | 10.1 | 8.6 | 13.0 |
| 44 | 7.8 | 6.2 | 9.4 |

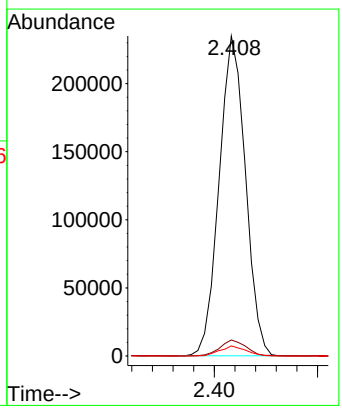


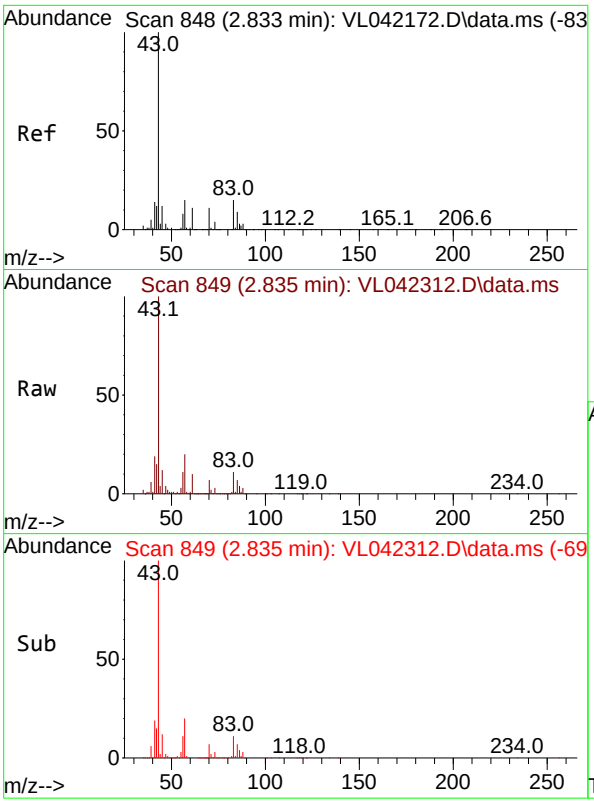




#24
1,1-Dichloroethane
Concen: 9.567 ppbv
RT: 2.408 min Scan# 717
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 63 Resp: 207862

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 5.0 | 2.3 | 6.8 |
| 100 | 3.2 | 1.6 | 4.7 |



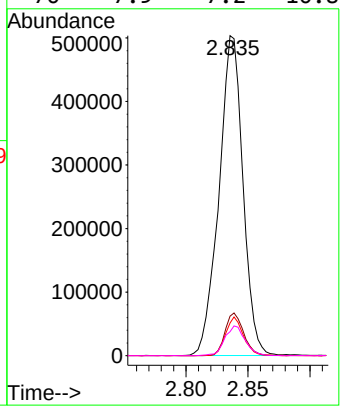


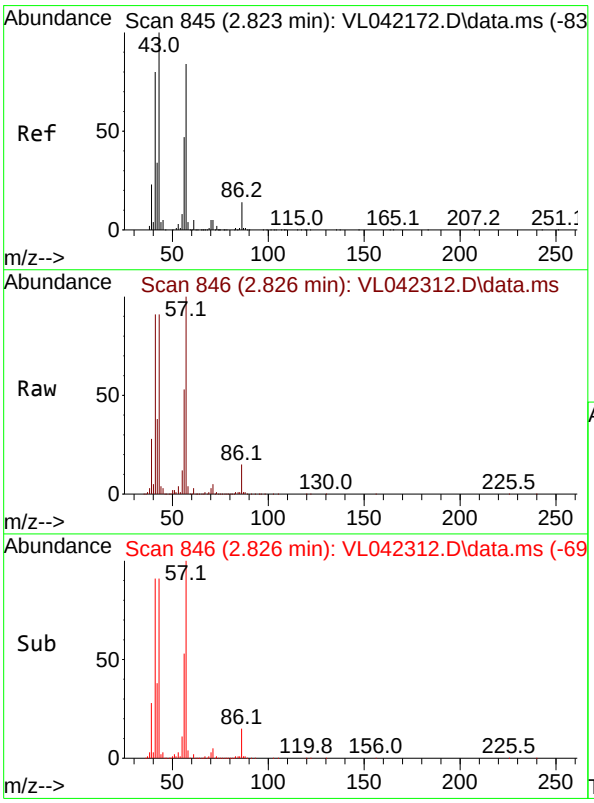

#25
Ethyl Acetate
Concen: 10.182 ppbv
RT: 2.835 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 43 Resp: 678920

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 10.5 | 8.2 | 12.2 |
| 61 | 9.1 | 7.3 | 10.9 |
| 70 | 7.9 | 7.2 | 10.8 |

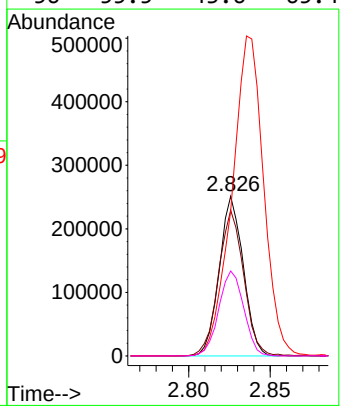


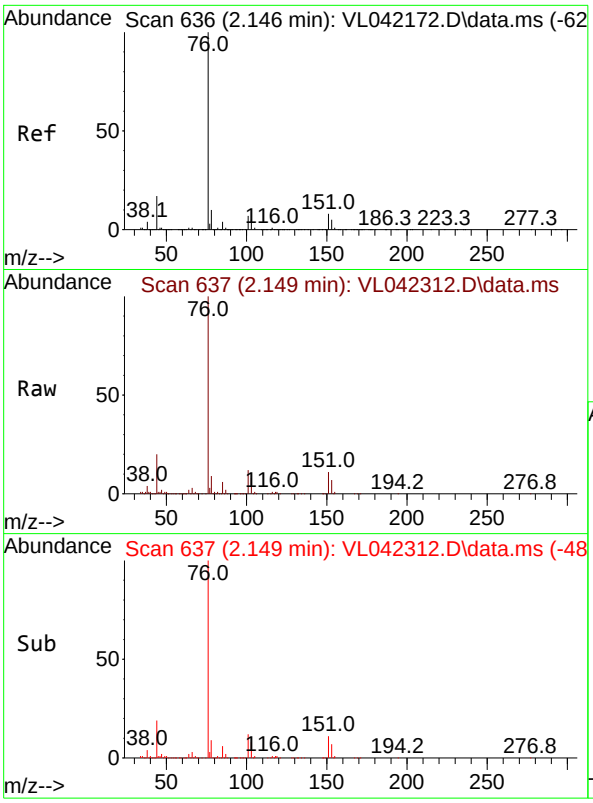




#26
Hexane
Concen: 9.973 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 57 Resp: 256866

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 96.5 | 76.6 | 114.8 |
| 43 | 265.7 | 207.8 | 311.8 |
| 56 | 55.5 | 43.6 | 65.4 |



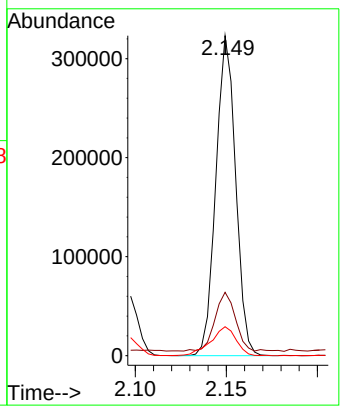


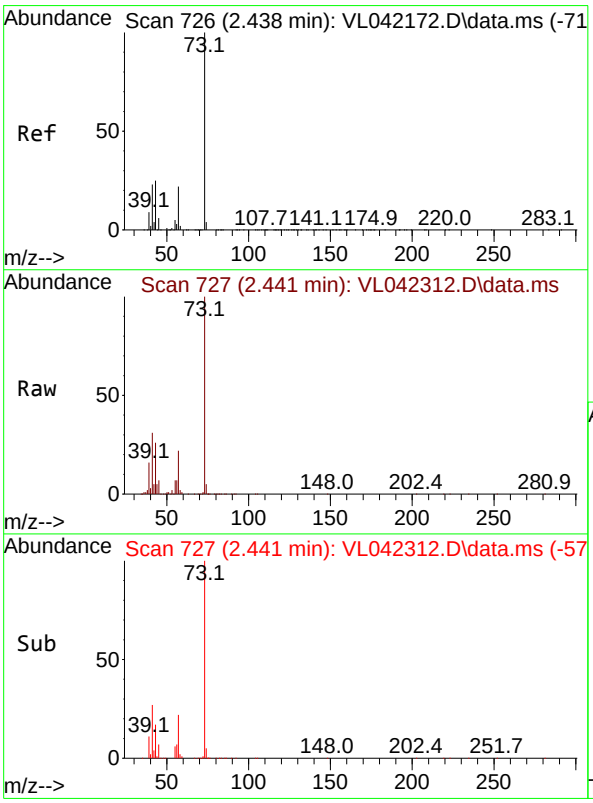

#27
Carbon Disulfide
Concen: 8.812 ppbv
RT: 2.149 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 76 Resp: 243367

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 19.5 | 14.7 | 22.1 |
| 78 | 11.6 | 9.3 | 13.9 |

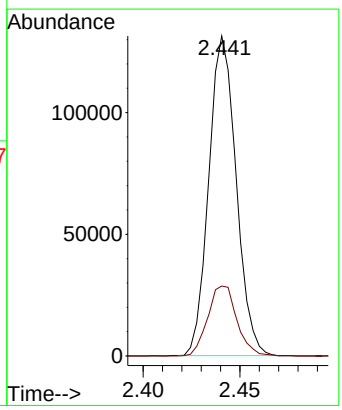


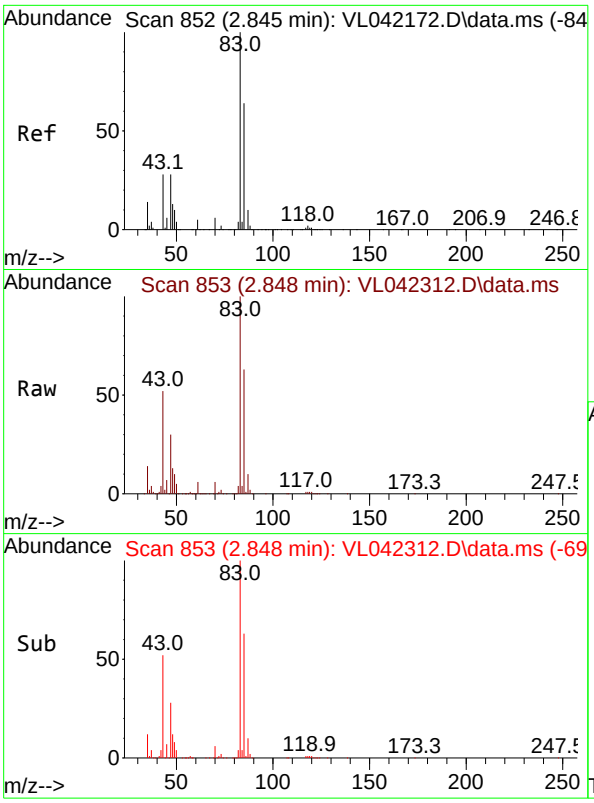




#28
Methyl tert-Butyl Ether
Concen: 8.053 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 73 Resp: 129141

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 23.4 | 20.5 | 30.7 |



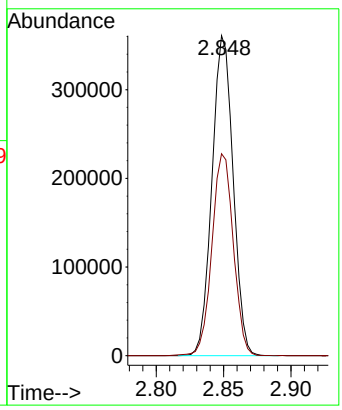


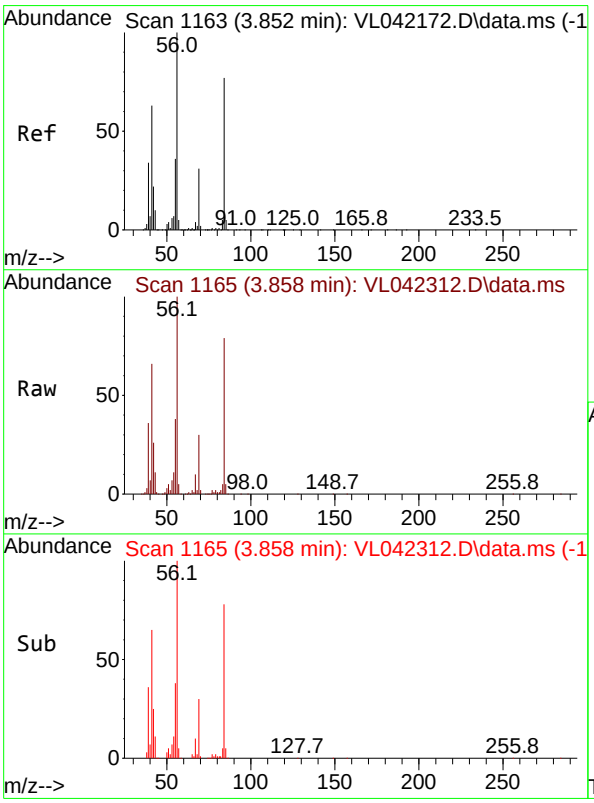

#29
Chloroform
Concen: 10.443 ppbv
RT: 2.848 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 83 Resp: 393638

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.1 | 51.4 | 77.2 |

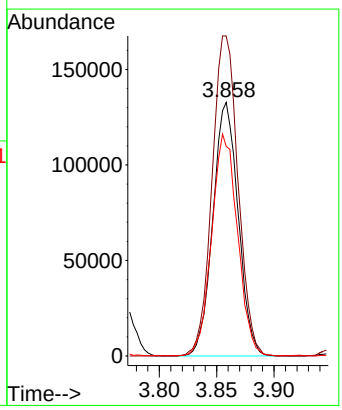


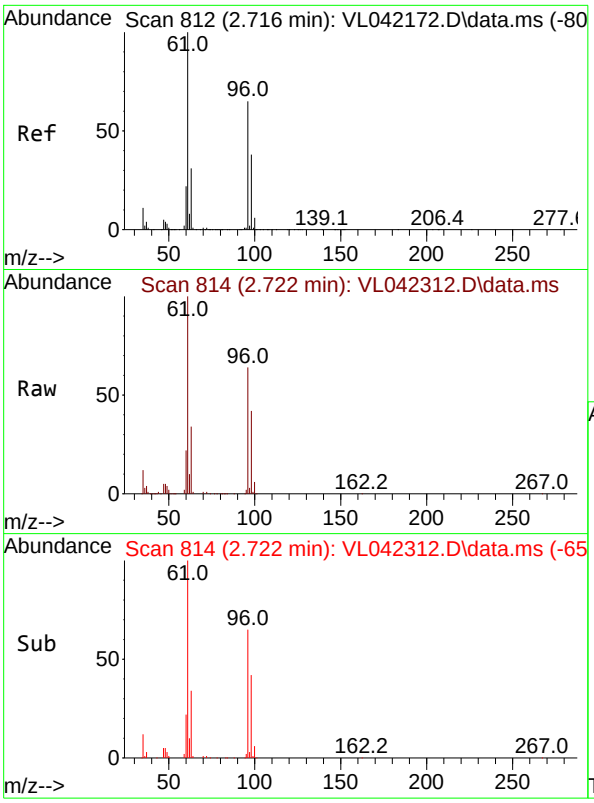




#30
Cyclohexane
Concen: 9.100 ppbv
RT: 3.858 min Scan# 1165
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 84 Resp: 203526

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 129.8 | 102.8 | 154.2 |
| 41 | 89.4 | 66.5 | 99.7 |



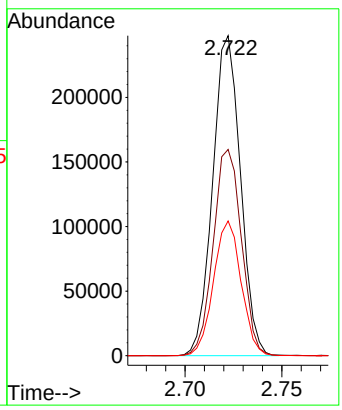


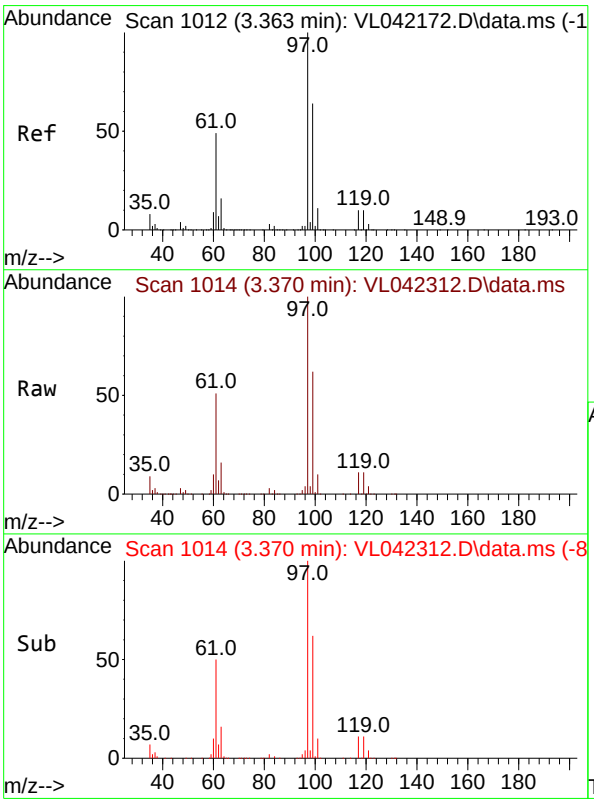

#31
cis-1,2-Dichloroethene
Concen: 9.454 ppbv
RT: 2.722 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 61 Resp: 247194

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 64.4 | 51.8 | 77.8 |
| 98 | 42.0 | 30.6 | 46.0 |

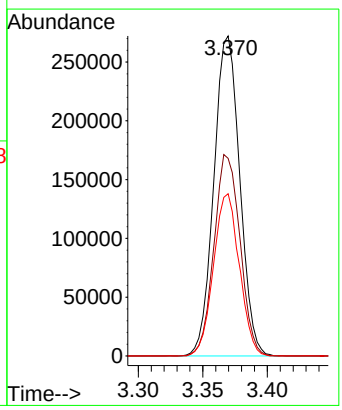


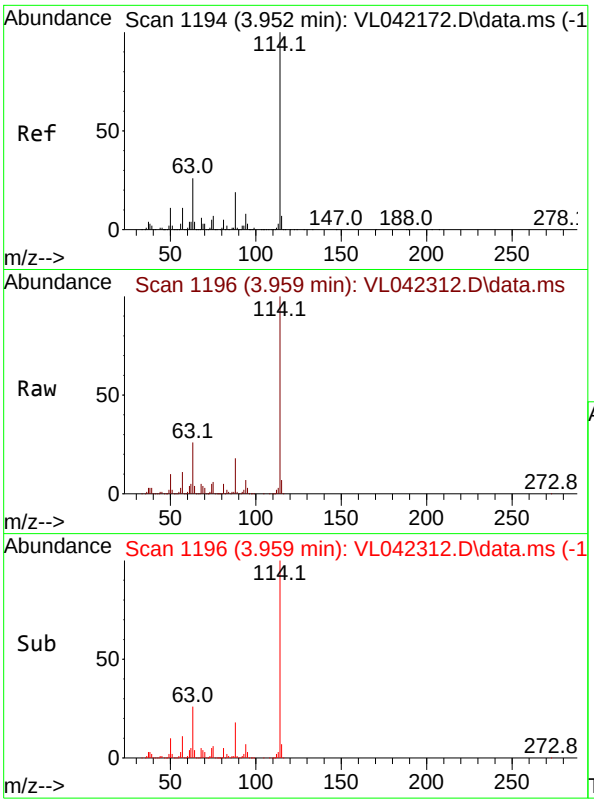




#32
1,1,1-Trichloroethane
Concen: 8.813 ppbv
RT: 3.370 min Scan# 1014
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 97 Resp: 380312

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.2 | 51.5 | 77.3 |
| 61 | 50.6 | 38.7 | 58.1 |



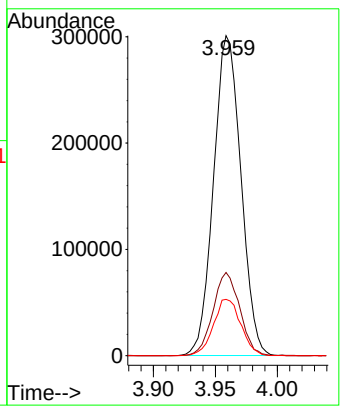


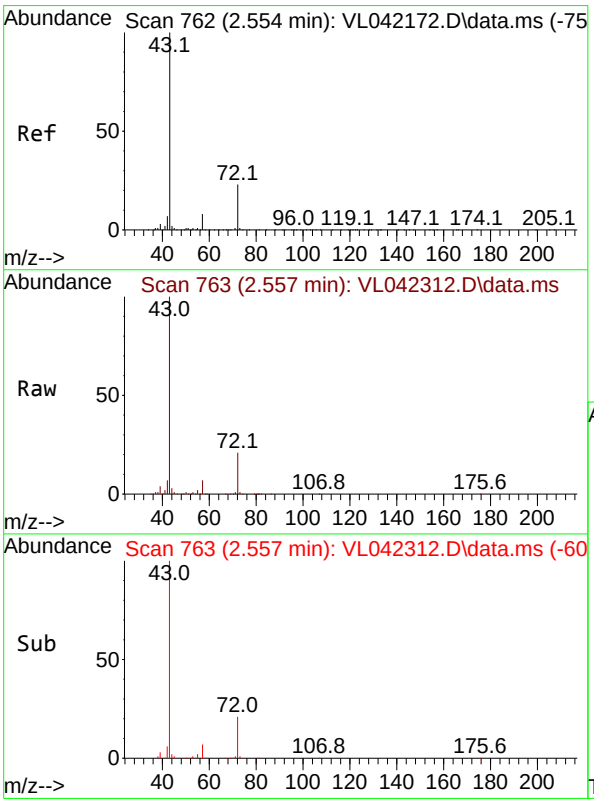

#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:114 Resp: 463746

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.5 | 20.7 | 31.1 |
| 88 | 17.7 | 15.0 | 22.4 |

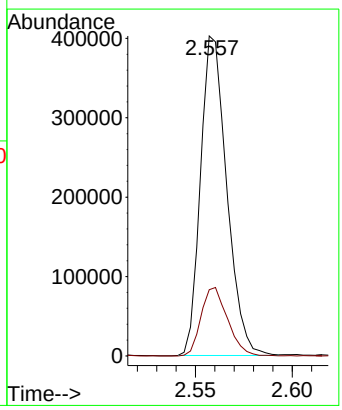


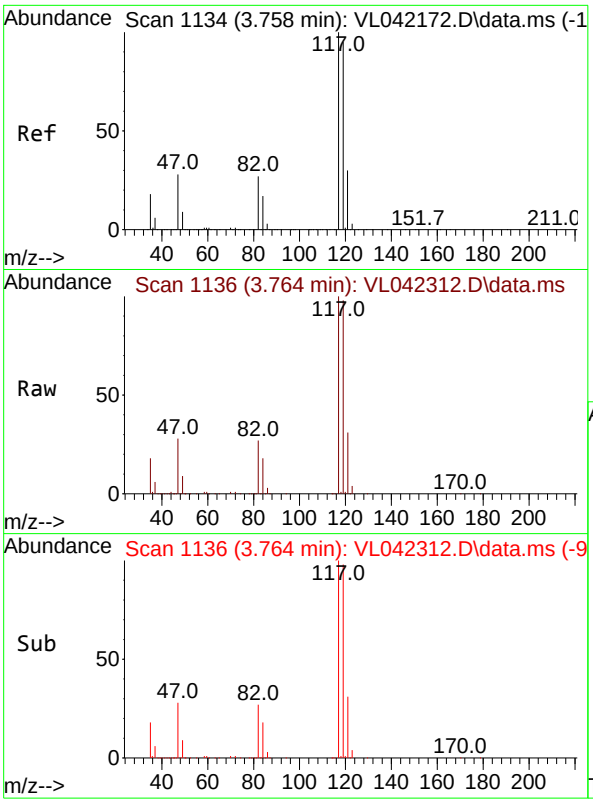




#34
2-Butanone
Concen: 11.321 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 43 Resp: 380682

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 21.7 | 18.2 | 27.2 |



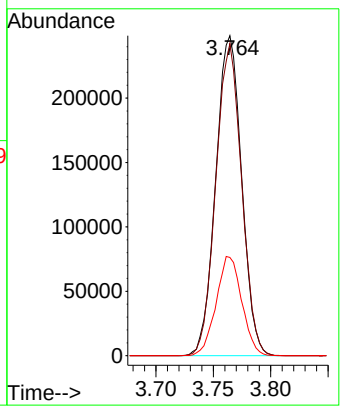


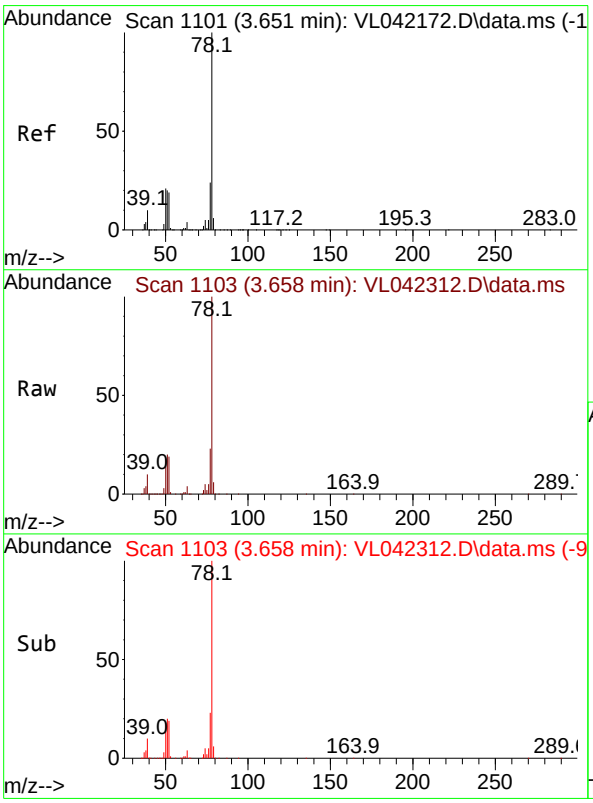

#35
Carbon Tetrachloride
Concen: 10.769 ppbv
RT: 3.764 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:117 Resp: 390140

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 97.6 | 76.2 | 114.2 |
| 121 | 30.7 | 24.2 | 36.4 |

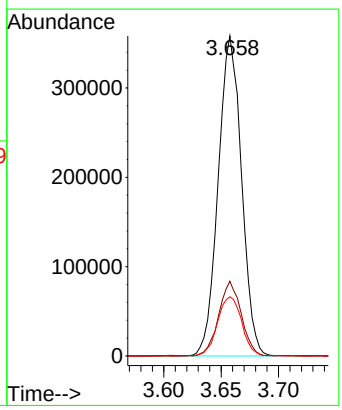


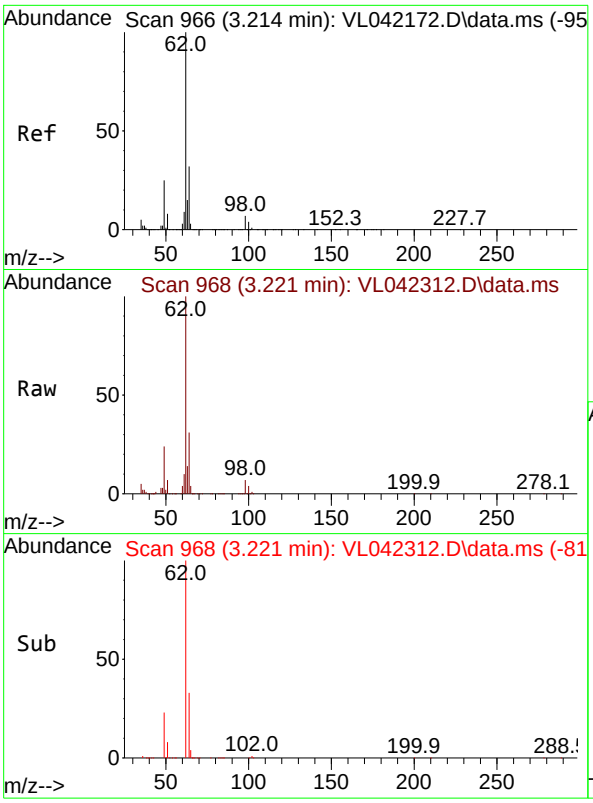




#36
Benzene
Concen: 11.012 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 78 Resp: 506278

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.3 | 19.1 | 28.7 |
| 50 | 18.5 | 16.6 | 24.8 |



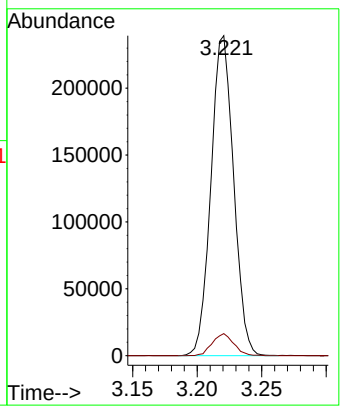


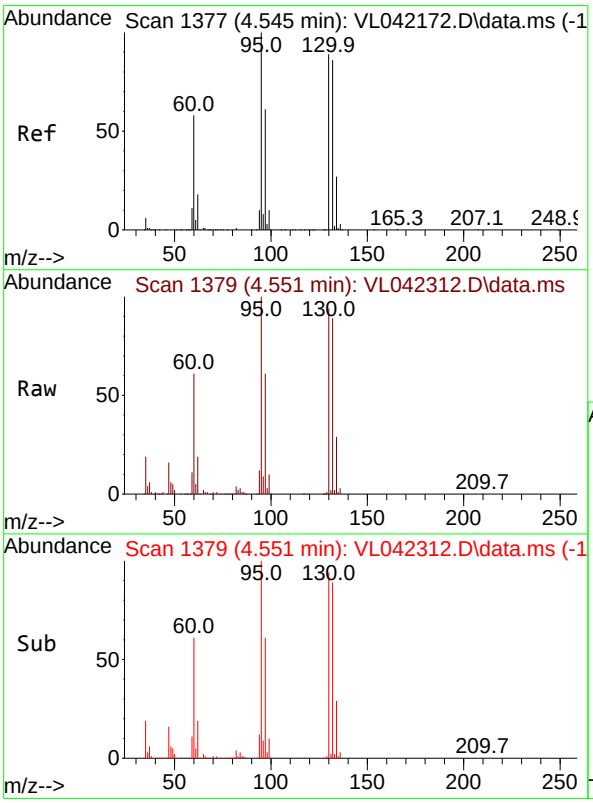

#37
1,2-Dichloroethane
Concen: 11.101 ppbv
RT: 3.221 min Scan# 9
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 62 Resp: 292183

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 6.6 | 5.4 | 8.2 |

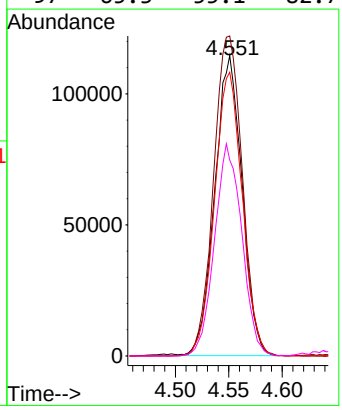


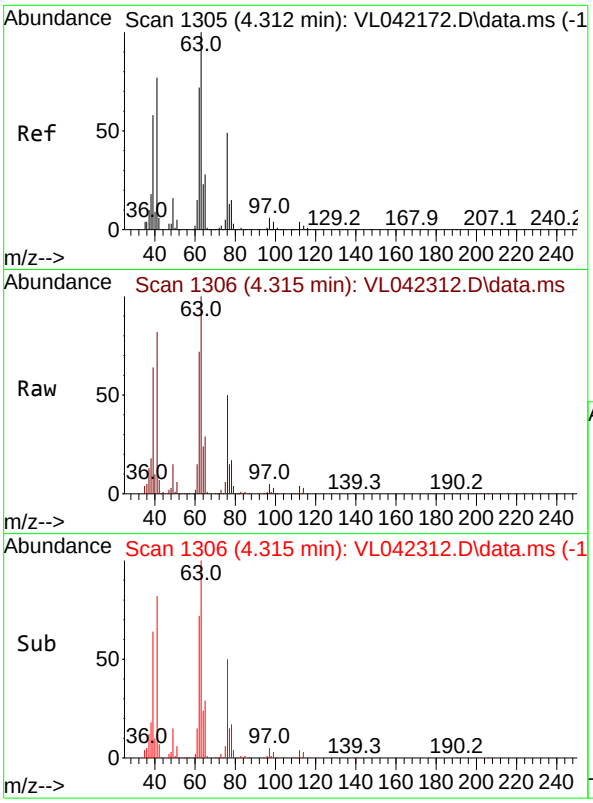




#38
Trichloroethene
Concen: 10.591 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:130 Resp: 203156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 106.6 | 89.8 | 134.8 |
| 132 | 94.5 | 77.4 | 116.2 |
| 97 | 65.3 | 55.1 | 82.7 |



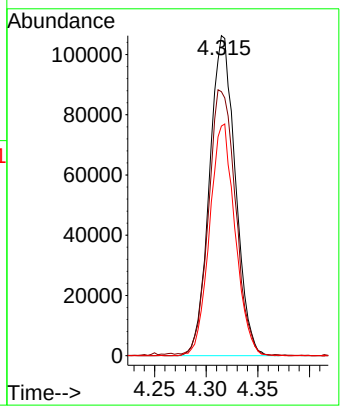


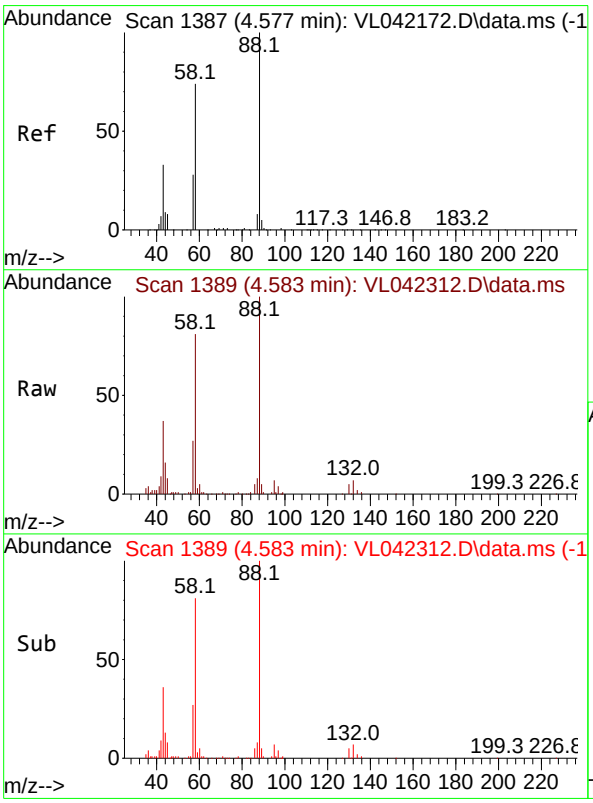

#39
1,2-Dichloropropane
Concen: 11.079 ppbv
RT: 4.315 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 63 Resp: 185497

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 82.2 | 61.7 | 92.5 |
| 62 | 71.8 | 57.6 | 86.4 |

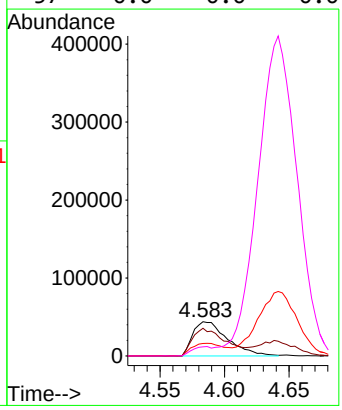


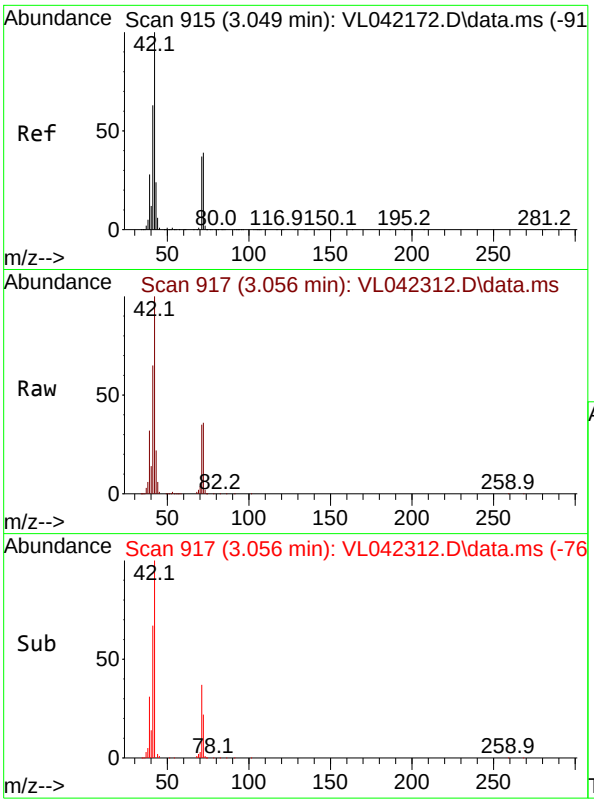




#40
1,4-Dioxane
Concen: 9.270 ppbv
RT: 4.583 min Scan# 1389
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 88 Resp: 82376

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 79.1 | 62.7 | 94.1 |
| 43 | 30.6 | 23.0 | 34.4 |
| 57 | 0.0 | 0.0 | 0.0 |



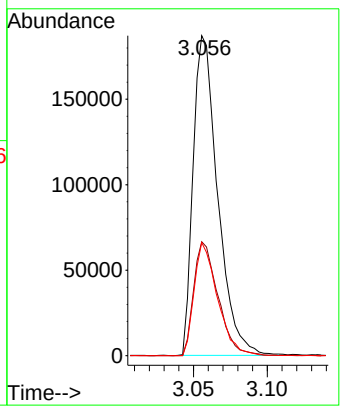


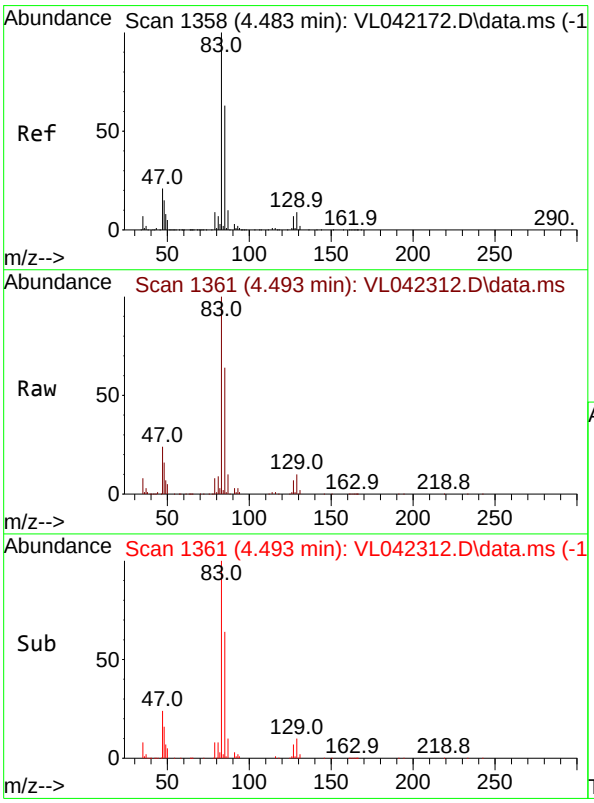

#41
Tetrahydrofuran
Concen: 11.188 ppbv
RT: 3.056 min Scan# 91
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 42 Resp: 216646

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 35.3 | 31.4 | 47.0 |
| 71 | 33.8 | 30.2 | 45.4 |

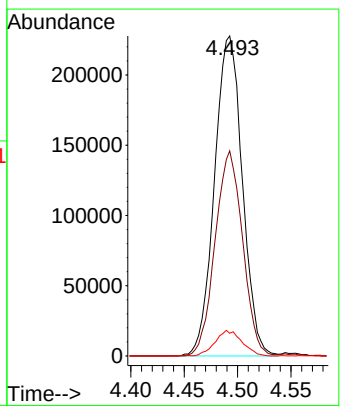


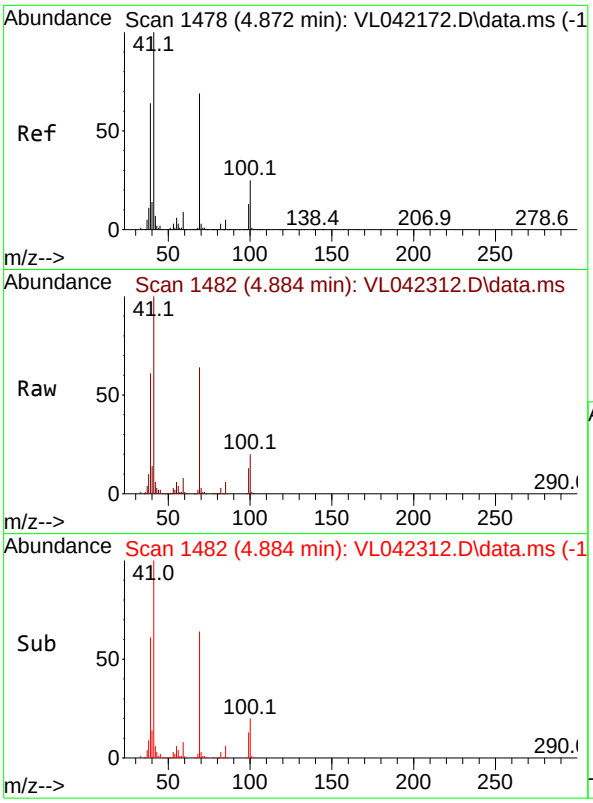




#42
Bromodichloromethane
Concen: 11.389 ppbv
RT: 4.493 min Scan# 1361
Delta R.T. 0.009 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 83 Resp: 413250

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.1 | 50.5 | 75.7 |
| 127 | 7.1 | 5.9 | 8.9 |



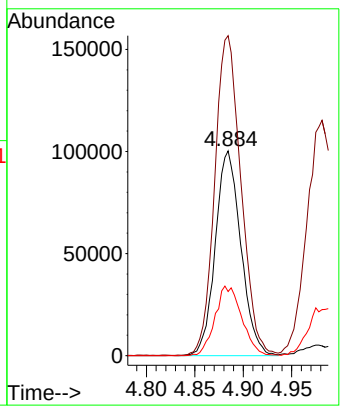


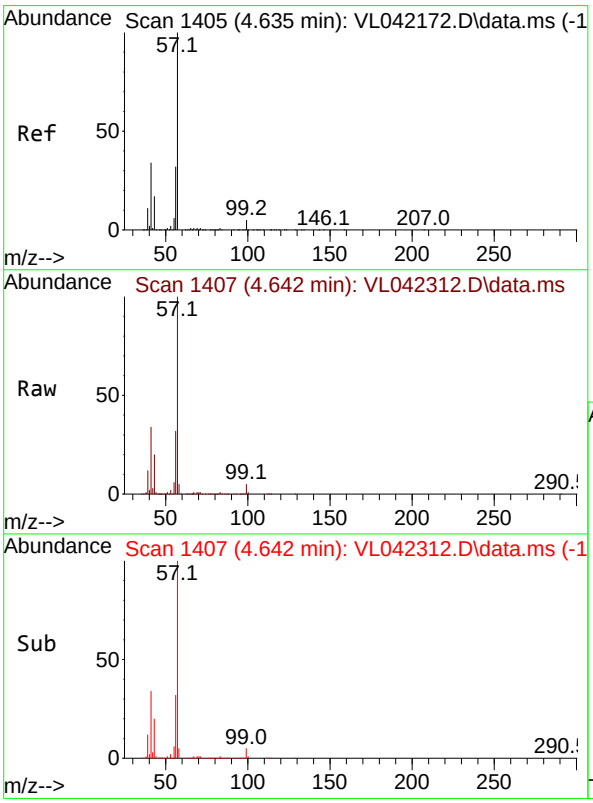

#43
Methyl Methacrylate
Concen: 9.478 ppbv
RT: 4.884 min Scan# 14
Delta R.T. 0.013 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 69 Resp: 184472

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 160.3 | 123.8 | 185.6 |
| 100 | 35.6 | 28.4 | 42.6 |

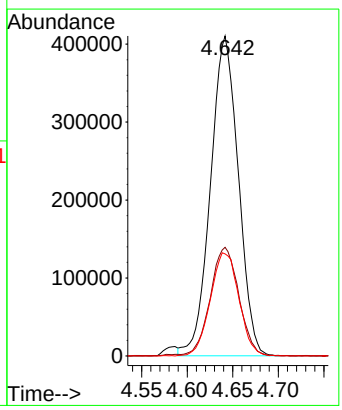


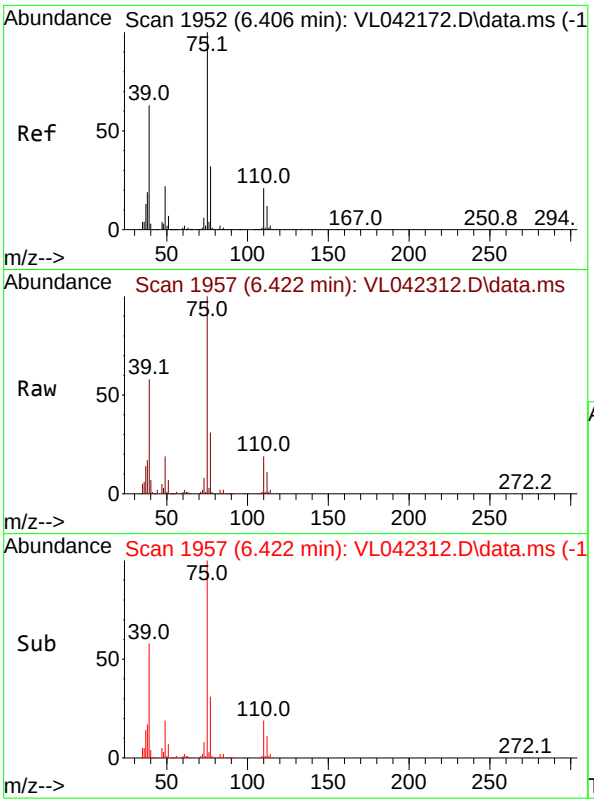




#44
2,2,4-Trimethylpentane
Concen: 11.235 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 57 Resp: 872871

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 35.1 | 26.8 | 40.2 |
| 56 | 33.1 | 25.6 | 38.4 |



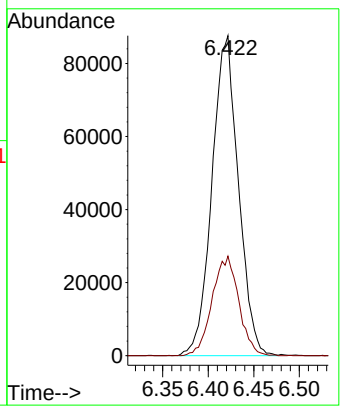


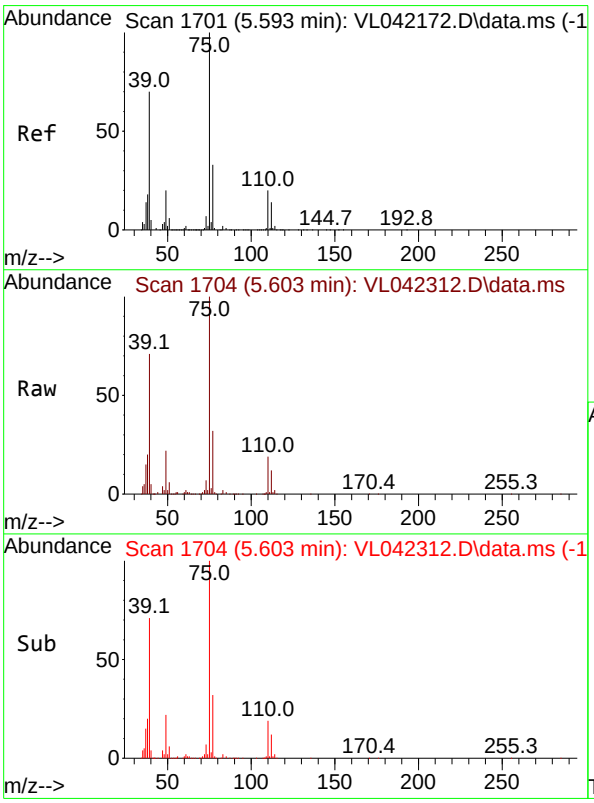

#45
t-1,3-Dichloropropene
Concen: 8.467 ppbv
RT: 6.422 min Scan# 1
Delta R.T. 0.016 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 75 Resp: 176804

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.1 | 26.0 | 39.0 |

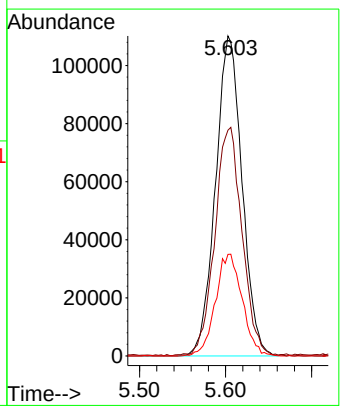


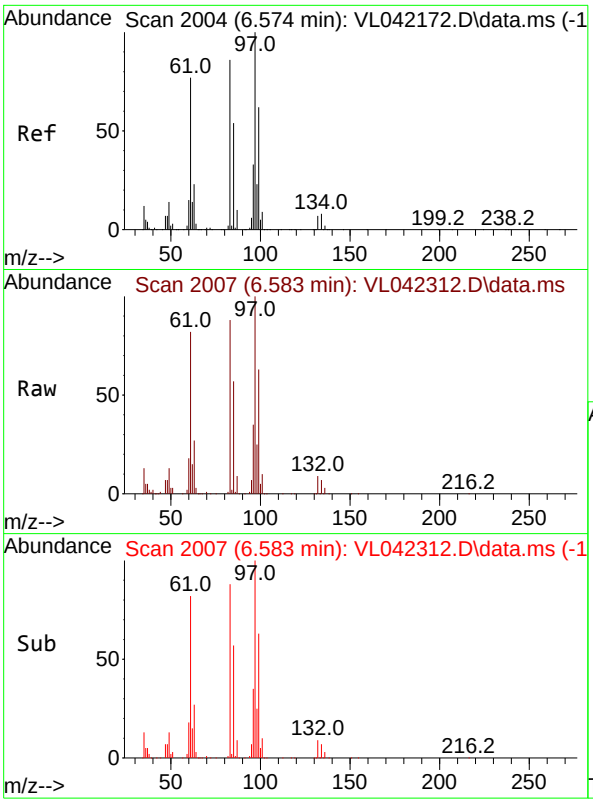




#46
cis-1,3-Dichloropropene
Concen: 9.222 ppbv
RT: 5.603 min Scan# 1704
Delta R.T. 0.009 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 75 Resp: 236039

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 39 | 70.2 | 55.8 | 83.6 |
| 77 | 31.7 | 26.0 | 39.0 |



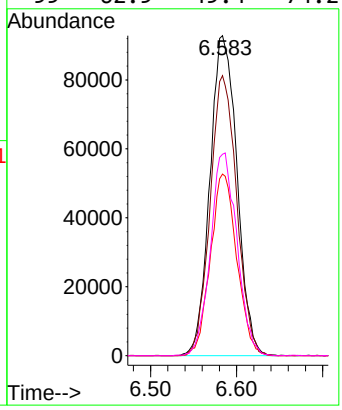


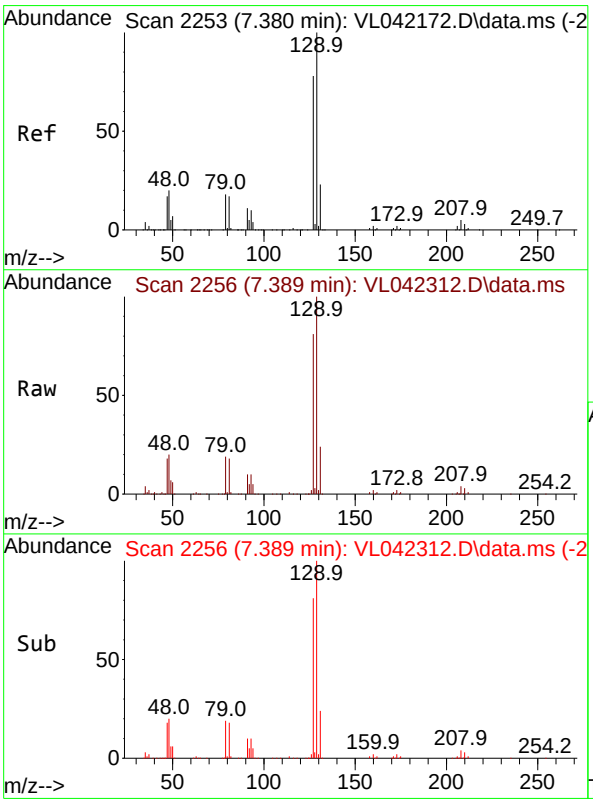

#47
1,1,2-Trichloroethane
Concen: 11.463 ppbv
RT: 6.583 min Scan# 2
Delta R.T. 0.009 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 97 Resp: 202891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 87.5 | 69.2 | 103.8 |
| 85 | 56.7 | 43.1 | 64.7 |
| 99 | 62.9 | 49.4 | 74.2 |

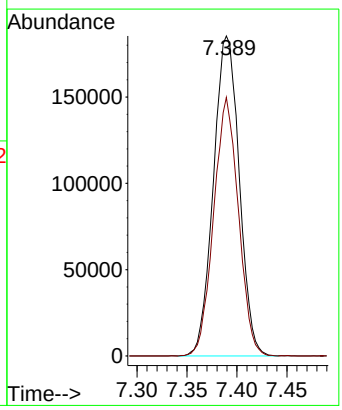


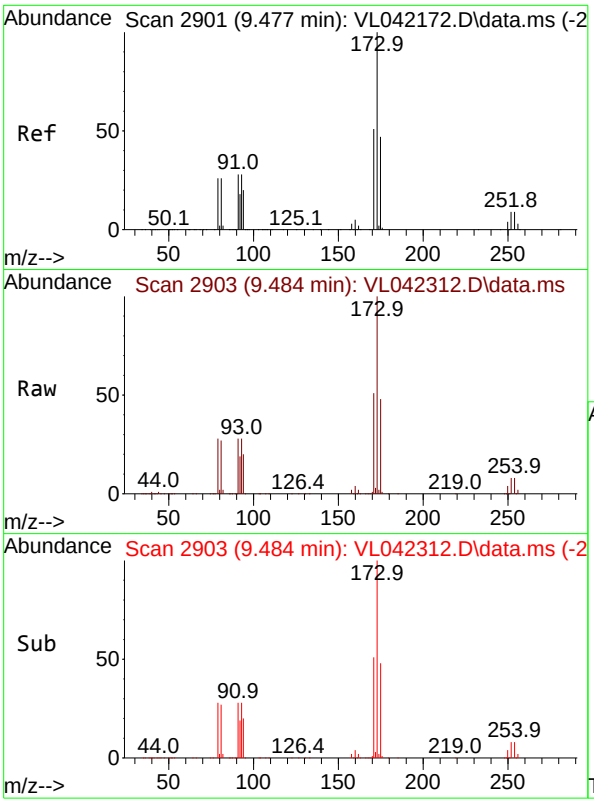




#48
Dibromochloromethane
Concen: 11.106 ppbv
RT: 7.389 min Scan# 2256
Delta R.T. 0.009 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:129 Resp: 333128

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.4 | 39.1 | 117.2 |



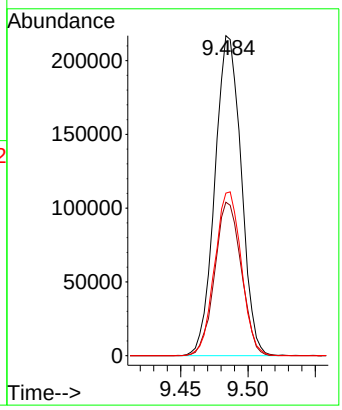


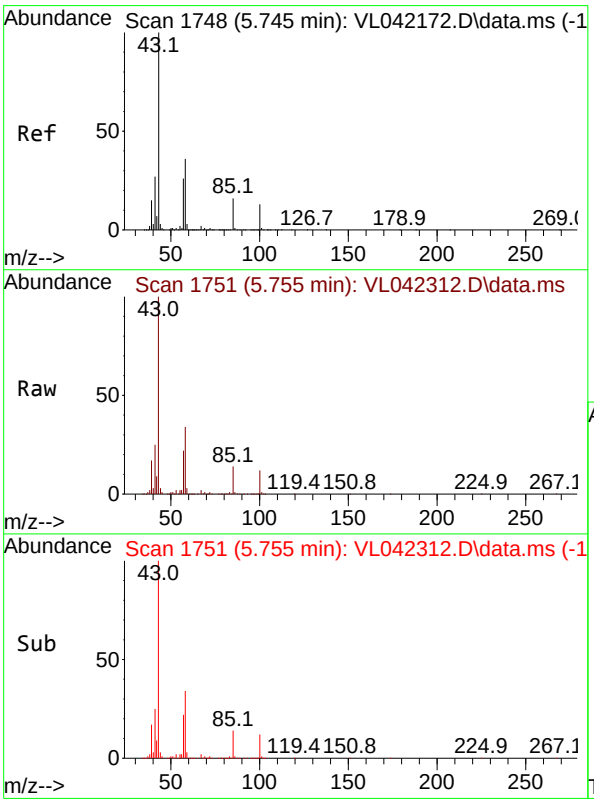

#49
Bromoform
Concen: 10.935 ppbv
RT: 9.484 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:173 Resp: 294489

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.5 | 38.6 | 57.8 |
| 171 | 51.8 | 41.8 | 62.6 |

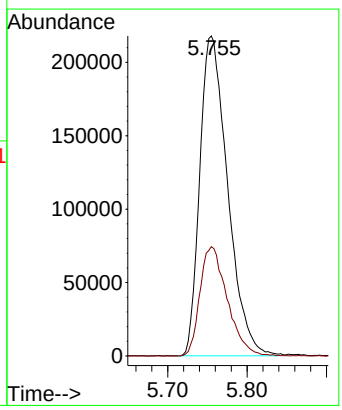


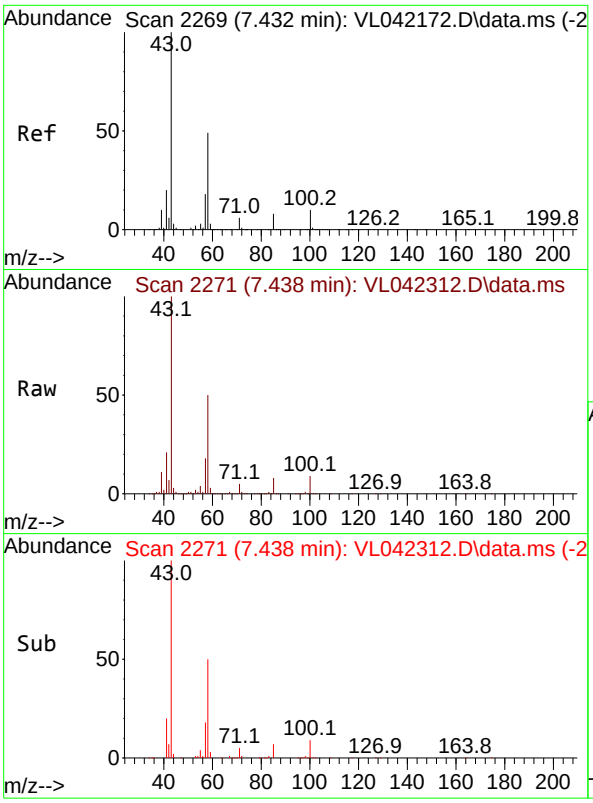




#50
4-Methyl-2-Pentanone
Concen: 9.980 ppbv
RT: 5.755 min Scan# 1751
Delta R.T. 0.009 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 43 Resp: 531851

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 33.5 | 29.0 | 43.6 |



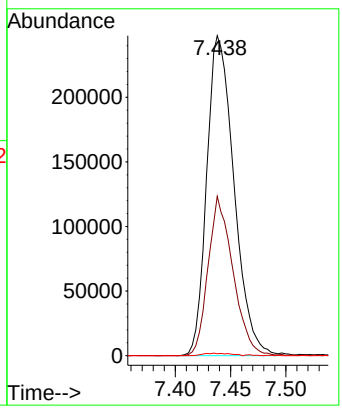


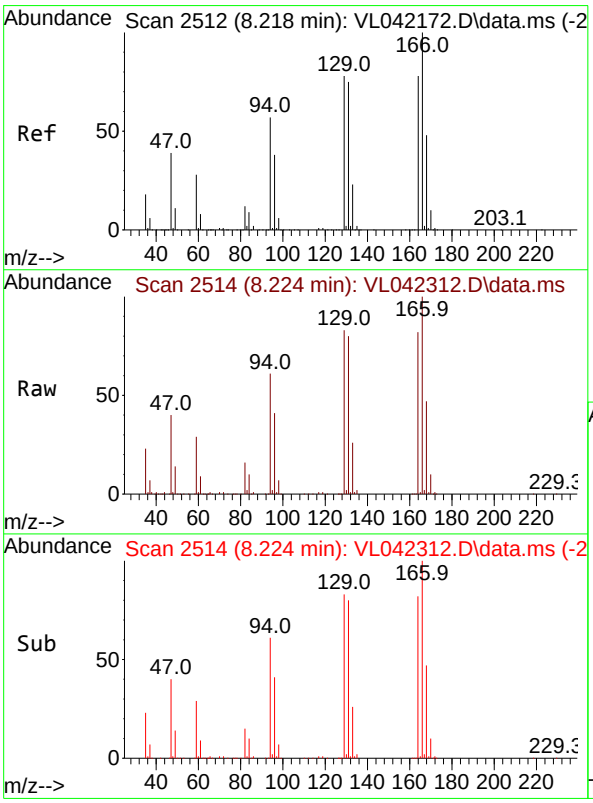

#51
2-Hexanone
Concen: 9.689 ppbv
RT: 7.438 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 43 Resp: 424035

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 45.7 | 39.7 | 59.5 |
| 98 | 0.9 | 0.1 | 0.1# |

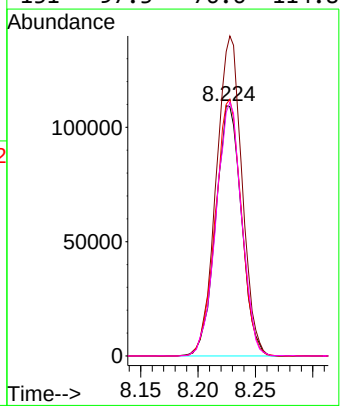


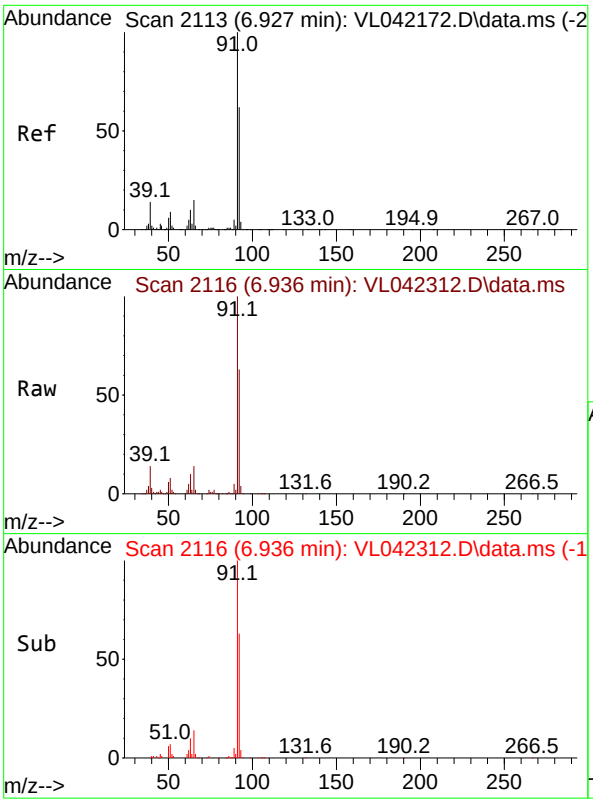




#52
Tetrachloroethene
Concen: 9.378 ppbv
RT: 8.224 min Scan# 2514
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:164 Resp: 170989

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 121.6 | 102.5 | 153.7 |
| 129 | 100.6 | 79.8 | 119.8 |
| 131 | 97.3 | 76.6 | 114.8 |



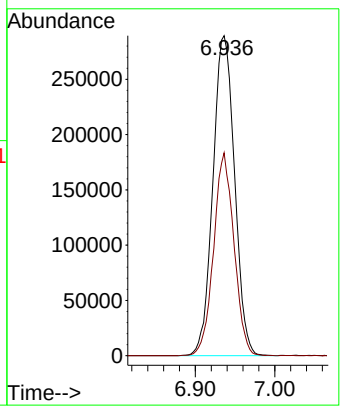


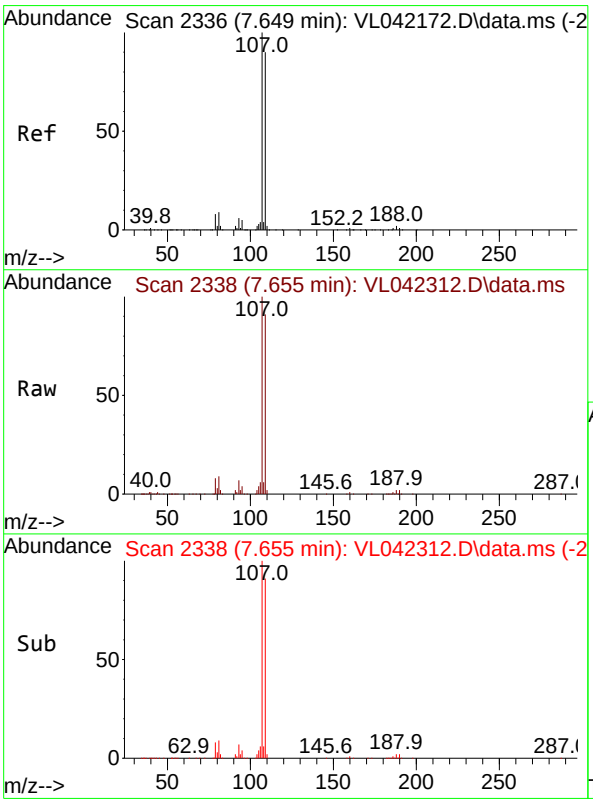

#53
Toluene
Concen: 10.048 ppbv
RT: 6.936 min Scan# 21
Delta R.T. 0.009 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 91 Resp: 547579

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 59.5 | 48.4 | 72.6 |

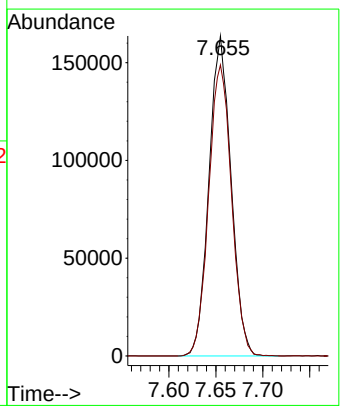


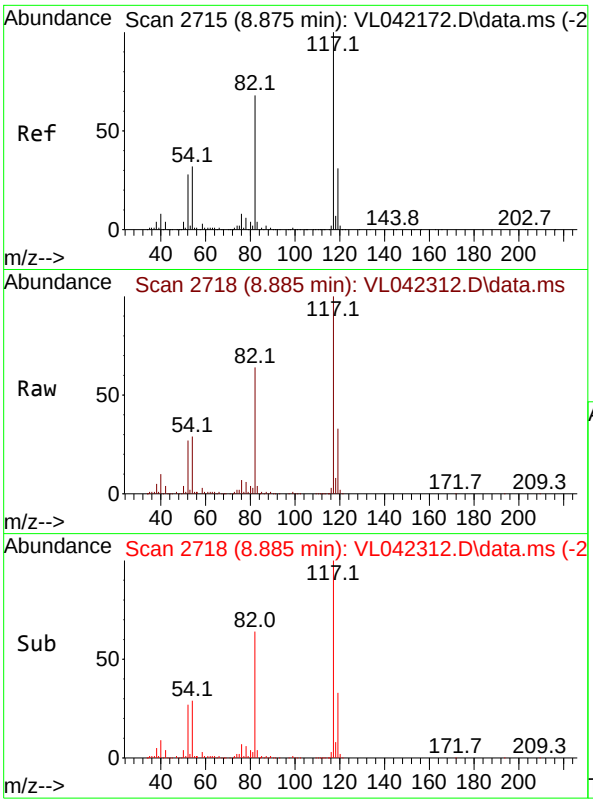




#54
1,2-Dibromoethane
Concen: 10.831 ppbv
RT: 7.655 min Scan# 2338
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:107 Resp: 267225

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 91.0 | 72.2 | 108.4 |



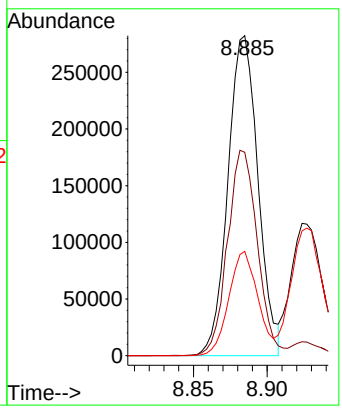


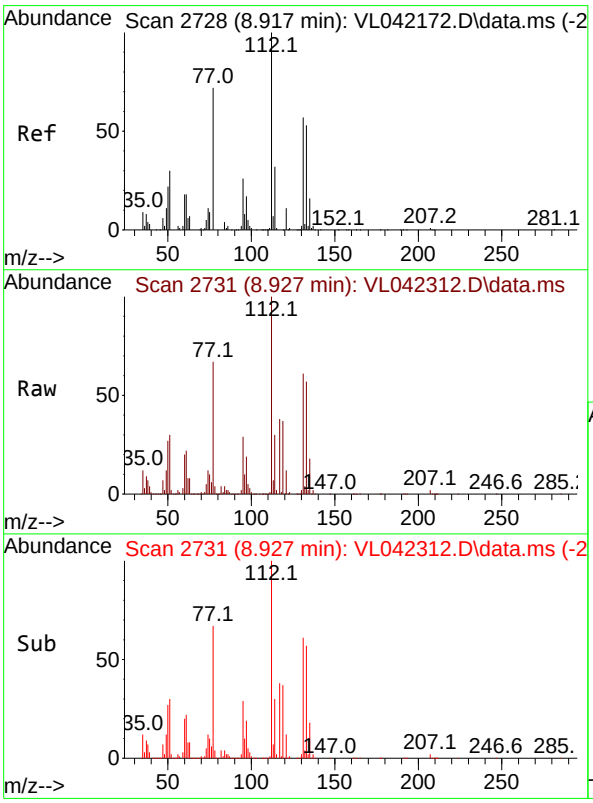

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.009 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:117 Resp: 401340

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 67.7 | 55.8 | 83.6 |
| 119 | 31.5 | 25.5 | 38.3 |

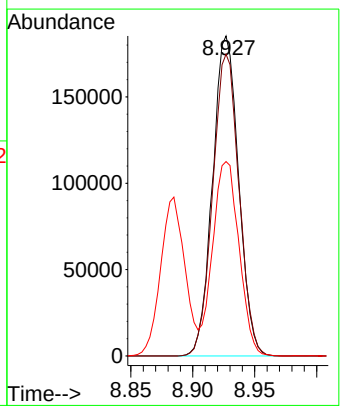


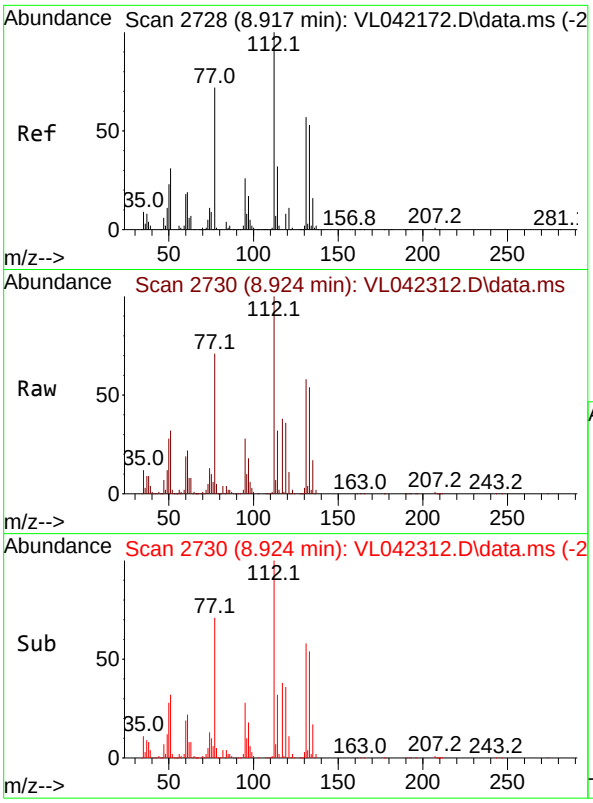




#56
1,1,1,2-Tetrachloroethane
Concen: 12.283 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. 0.009 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:131 Resp: 271350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.3 | 76.6 | 114.8 |
| 119 | 62.7 | 49.8 | 74.6 |



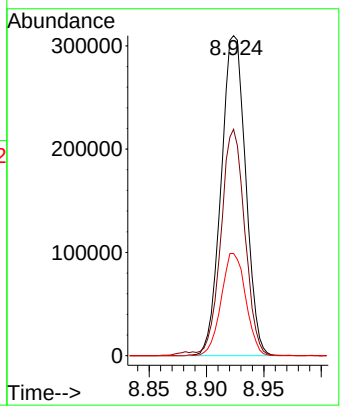


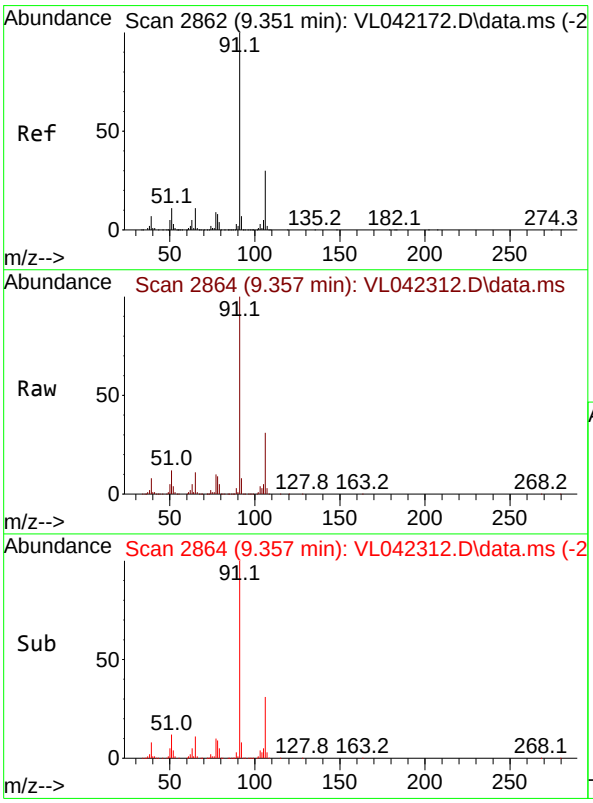

#57
Chlorobenzene
Concen: 12.099 ppbv
RT: 8.924 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:112 Resp: 460598

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 70.7 | 58.2 | 87.2 |
| 114 | 32.0 | 29.1 | 35.5 |

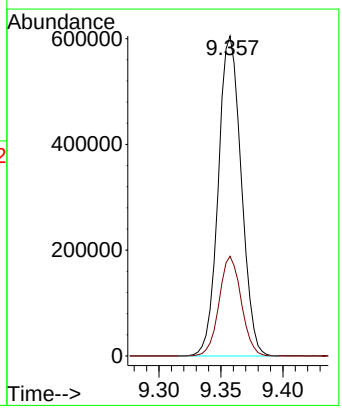


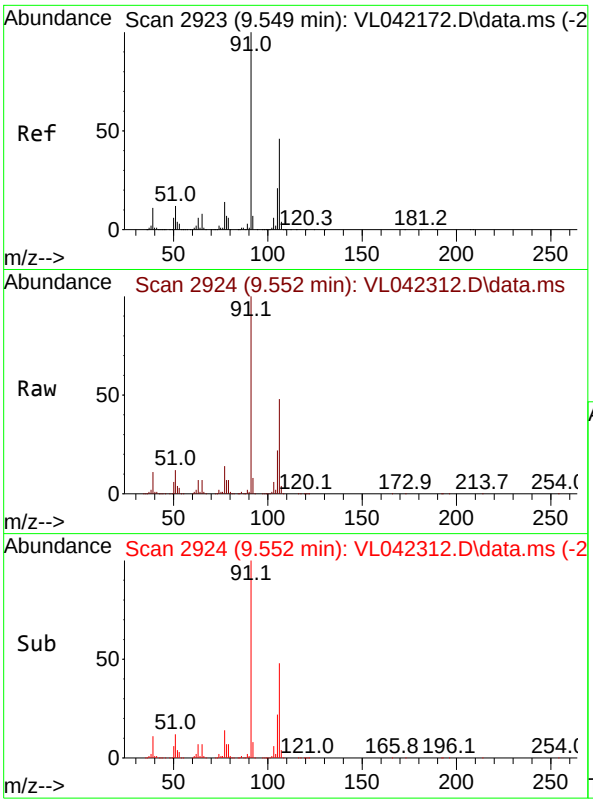




#58
Ethyl Benzene
Concen: 10.931 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 91 Resp: 779227

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.1 | 24.2 | 36.2 |



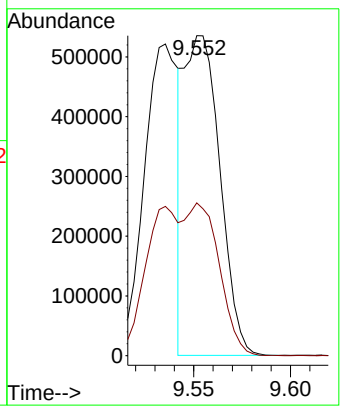


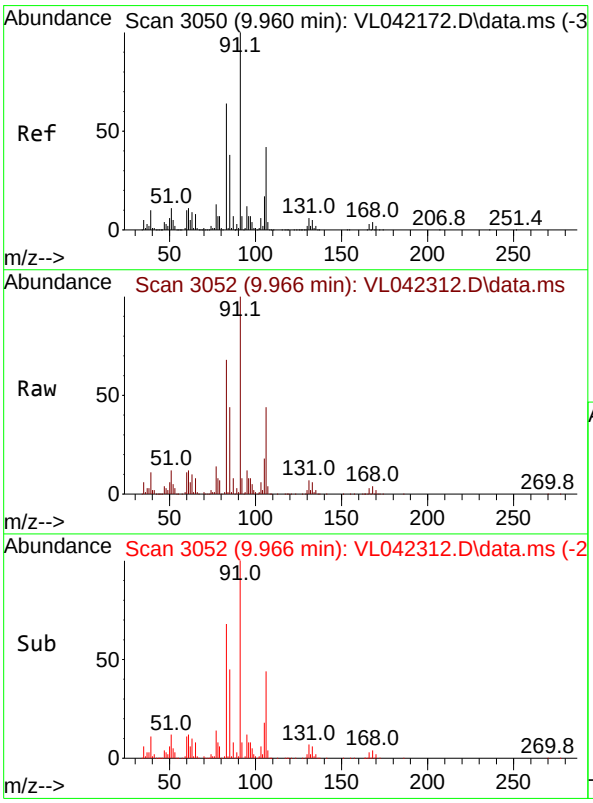

#59
m/p-Xylene
Concen: 12.062 ppbv
RT: 9.552 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 91 Resp: 686600

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 90.9 | 36.4 | 54.6# |

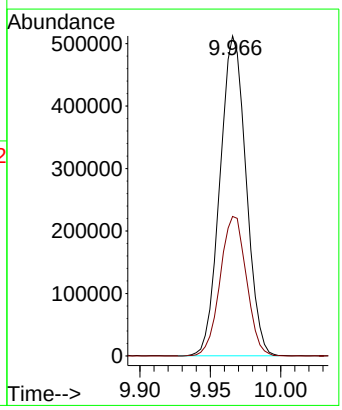


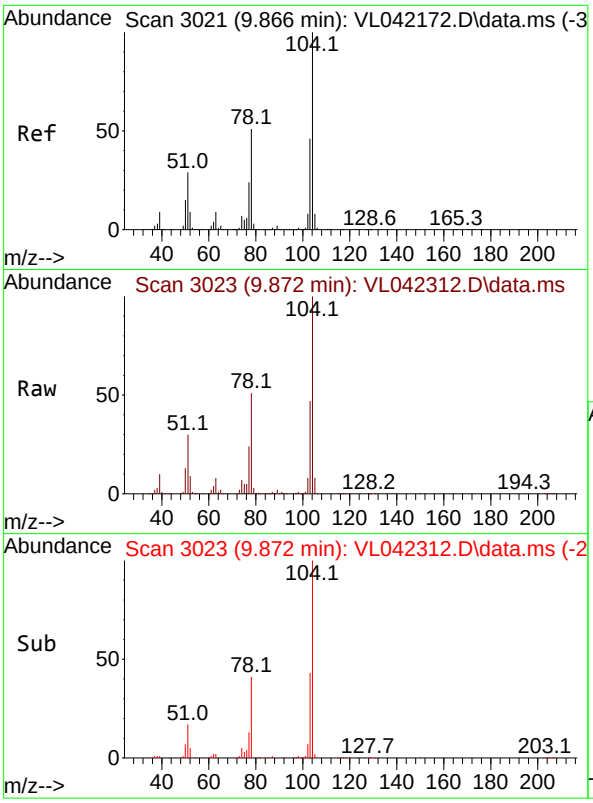




#60
o-Xylene
Concen: 11.567 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 91 Resp: 660065

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 44.0 | 20.8 | 62.5 |



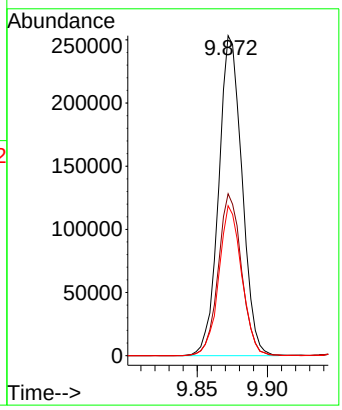


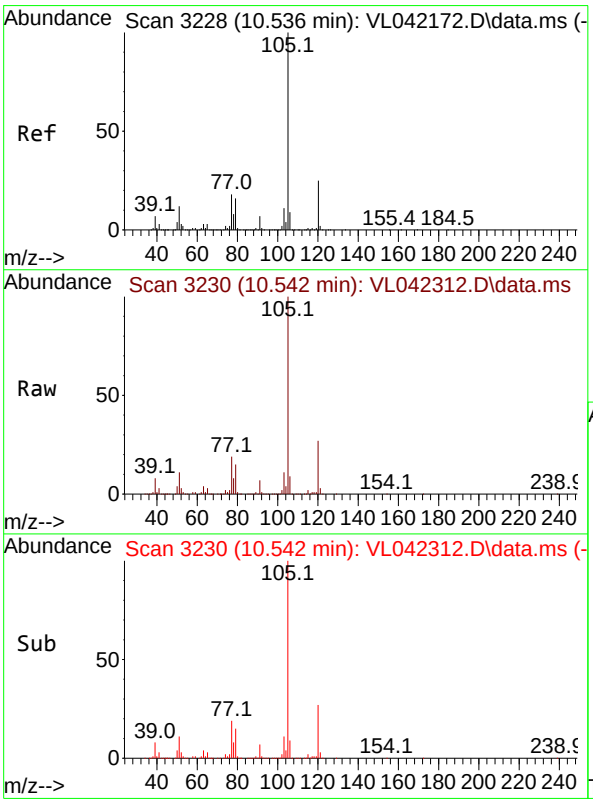

#61
Styrene
Concen: 10.320 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:104 Resp: 291355

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 50.6 | 41.8 | 62.6 |
| 103 | 46.3 | 37.0 | 55.4 |

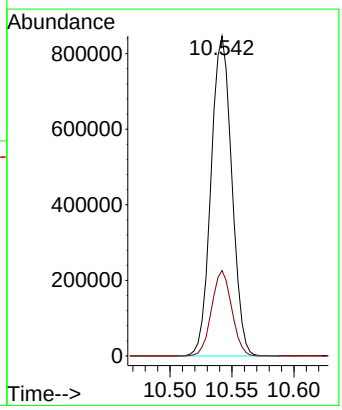


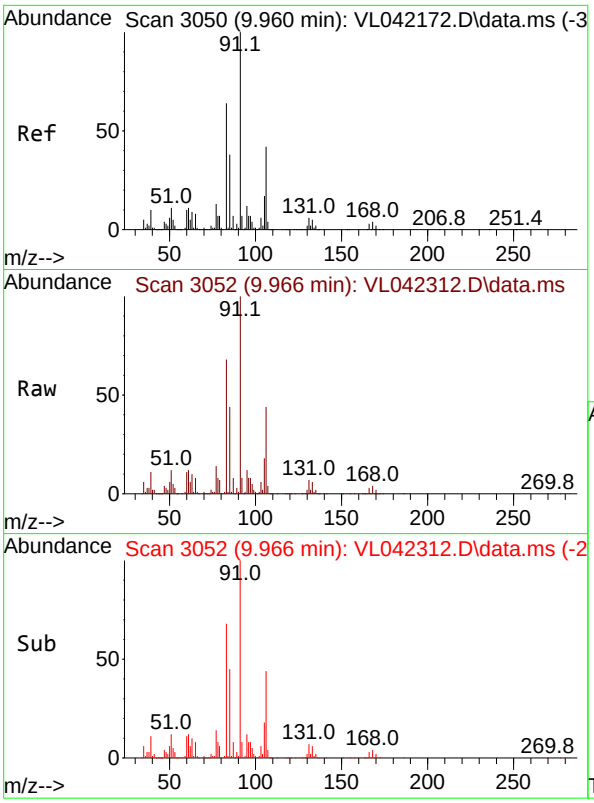




#62
Isopropylbenzene
Concen: 11.582 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:105 Resp: 988337

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.9 | 19.9 | 29.9 |



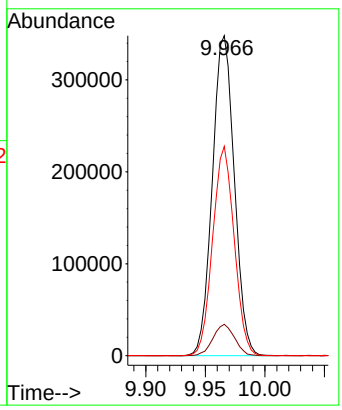


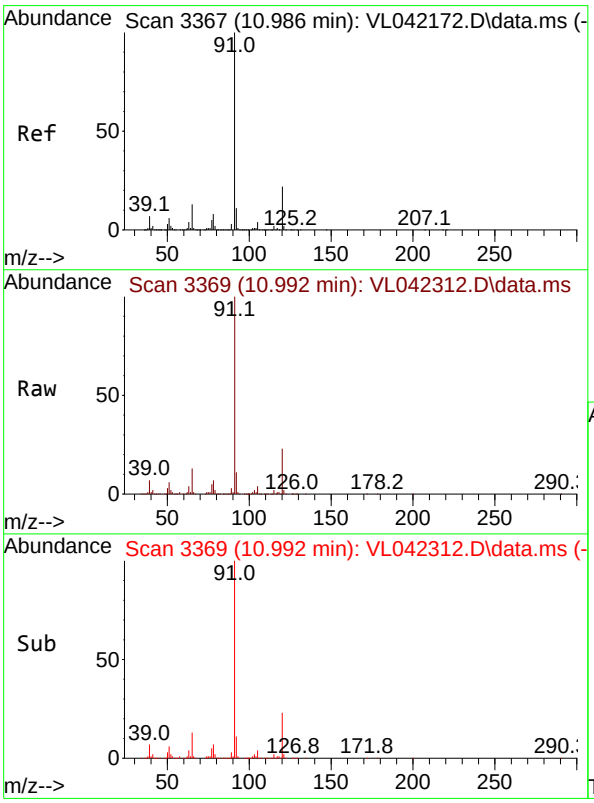

#63
1,1,2,2-Tetrachloroethane
Concen: 12.873 ppbv
RT: 9.966 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 83 Resp: 446341

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.6 | 4.8 | 14.4 |
| 85 | 64.0 | 32.5 | 97.5 |

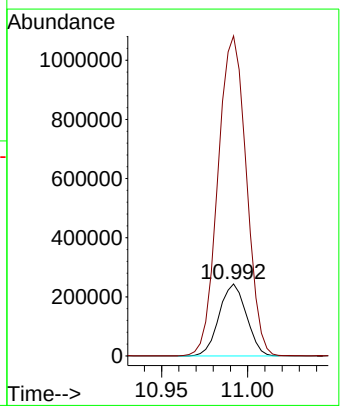


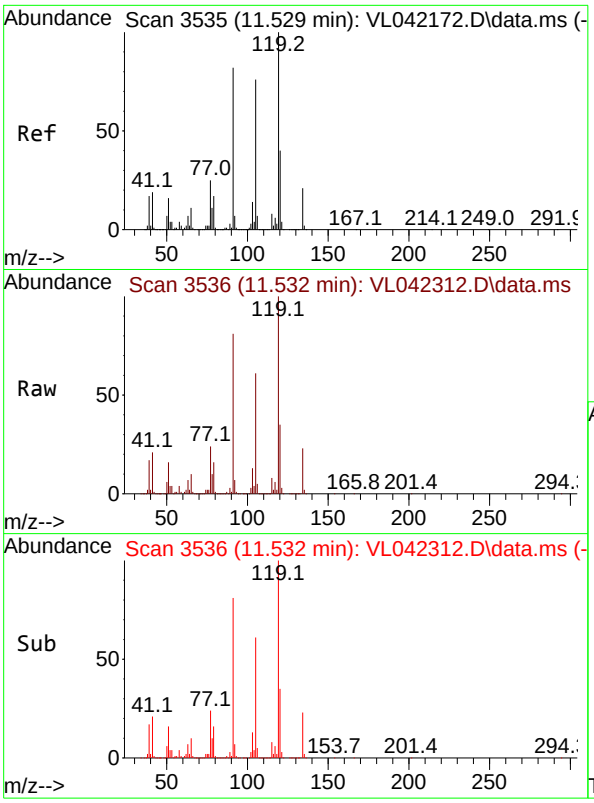




#64
n-propylbenzene
Concen: 12.231 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:120 Resp: 268681

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 463.6 | 376.9 | 565.3 |



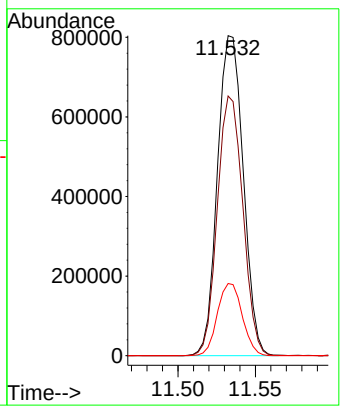


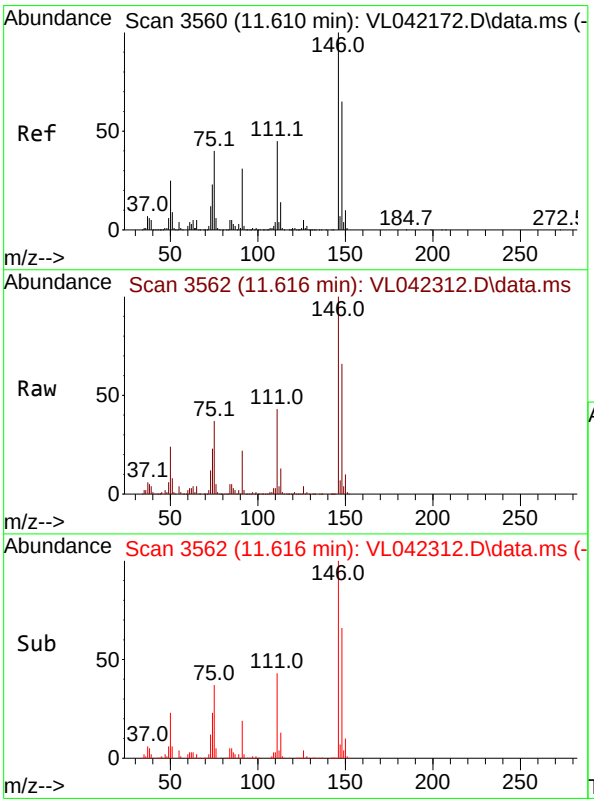

#65
tert-Butylbenzene
Concen: 11.820 ppbv
RT: 11.532 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:119 Resp: 932850

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 80.3 | 66.0 | 99.0 |
| 134 | 21.7 | 16.7 | 25.1 |

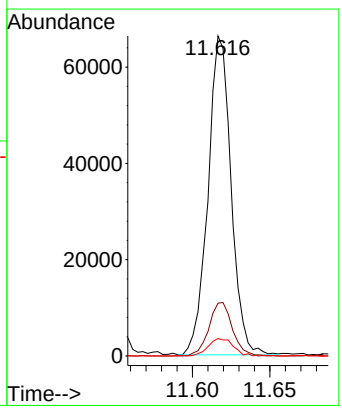


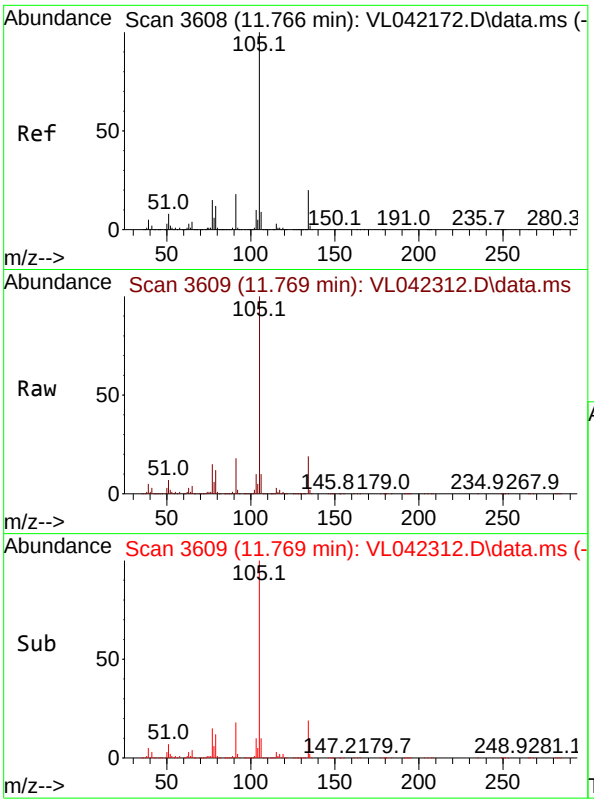




#66
Benzyl Chloride
Concen: 8.201 ppbv
RT: 11.616 min Scan# 3562
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 91 Resp: 68675

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 16.9 | 13.8 | 20.6 |
| 128 | 6.2 | 4.5 | 6.7 |



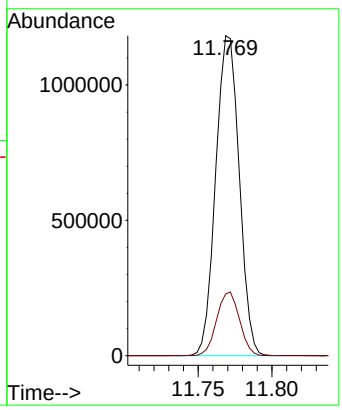


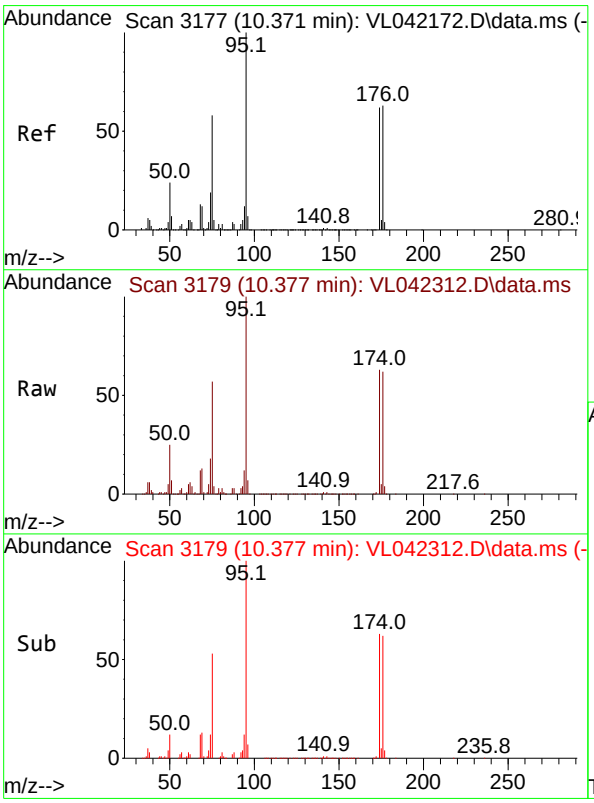

#67
sec-Butylbenzene
Concen: 11.942 ppbv
RT: 11.769 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:105 Resp: 1310042

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.4 | 15.5 | 23.3 |

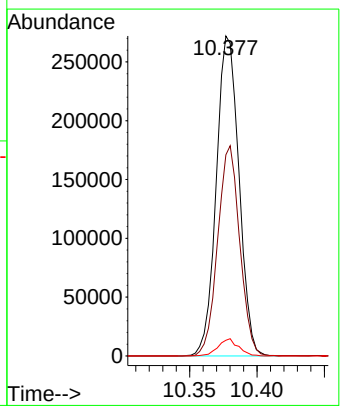


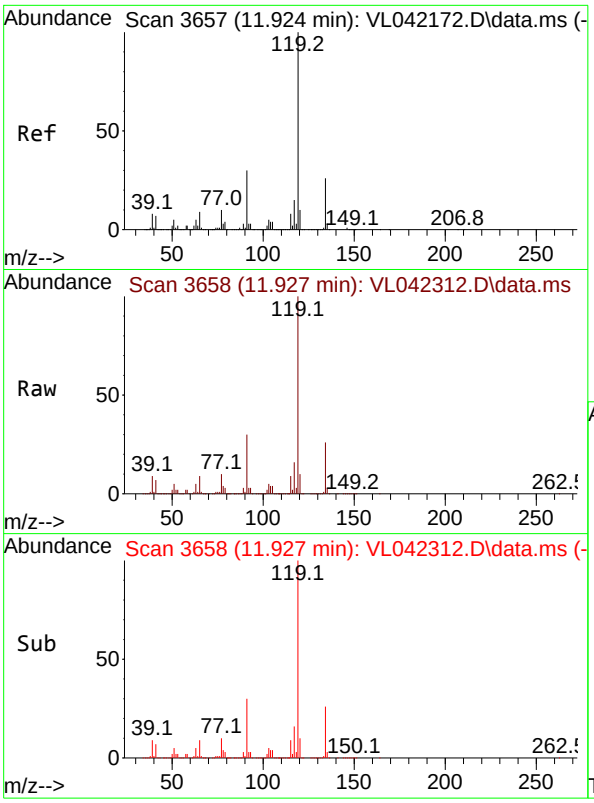




#68
1-Bromo-4-Fluorobenzene
Concen: 9.655 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 95 Resp: 318204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 64.0 | 50.6 | 76.0 |
| 175 | 4.9 | 3.8 | 5.6 |



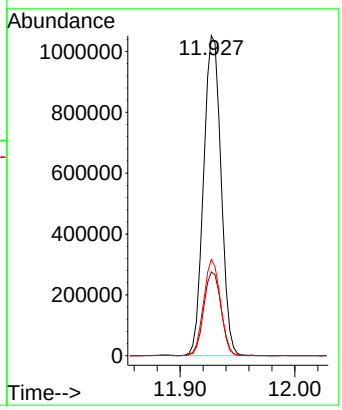


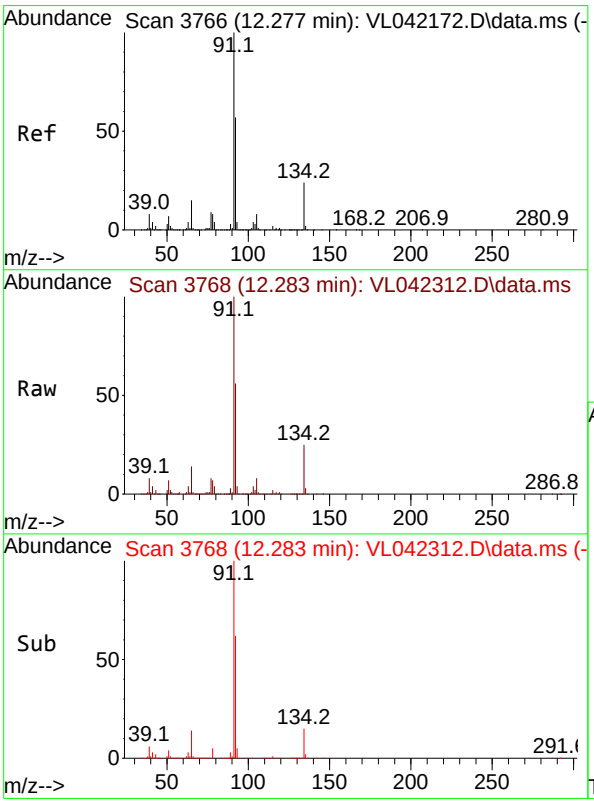

#69
p-Isopropyltoluene
Concen: 11.720 ppbv
RT: 11.927 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:119 Resp: 1107045

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.2 | 20.4 | 30.6 |
| 91 | 29.0 | 23.7 | 35.5 |

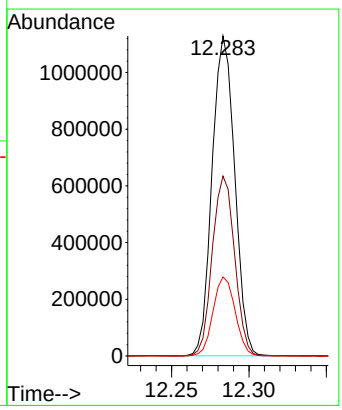


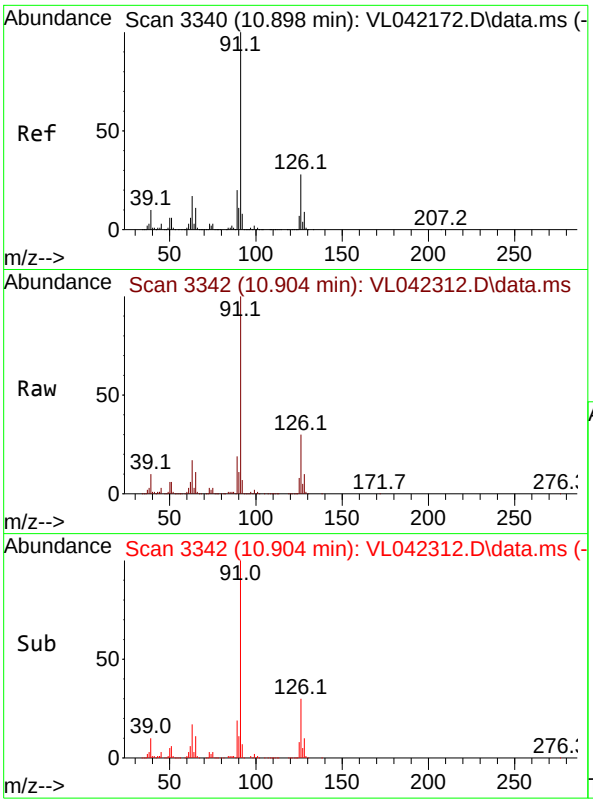




#70
n-Butylbenzene
Concen: 11.848 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion: 91 Resp: 1144571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 55.6 | 44.9 | 67.3 |
| 134 | 24.2 | 19.2 | 28.8 |



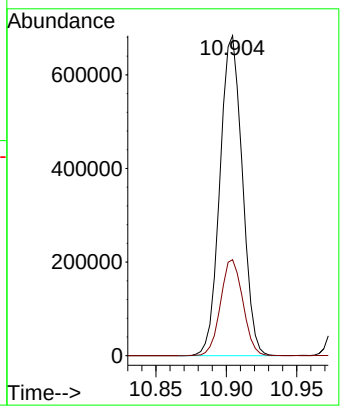


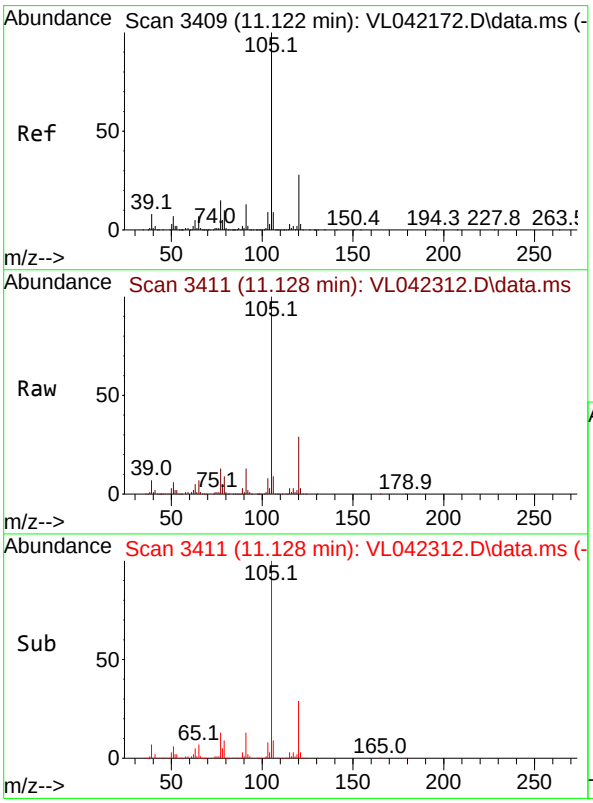

#71
2-Chlorotoluene
Concen: 11.423 ppbv
RT: 10.904 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 91 Resp: 756562

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 29.9 | 11.6 | 46.4 |

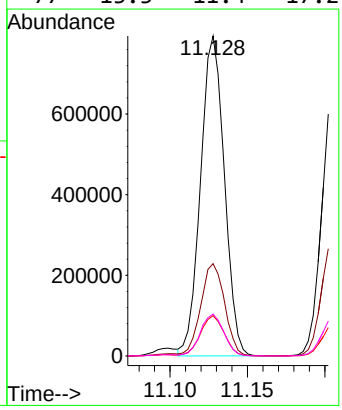


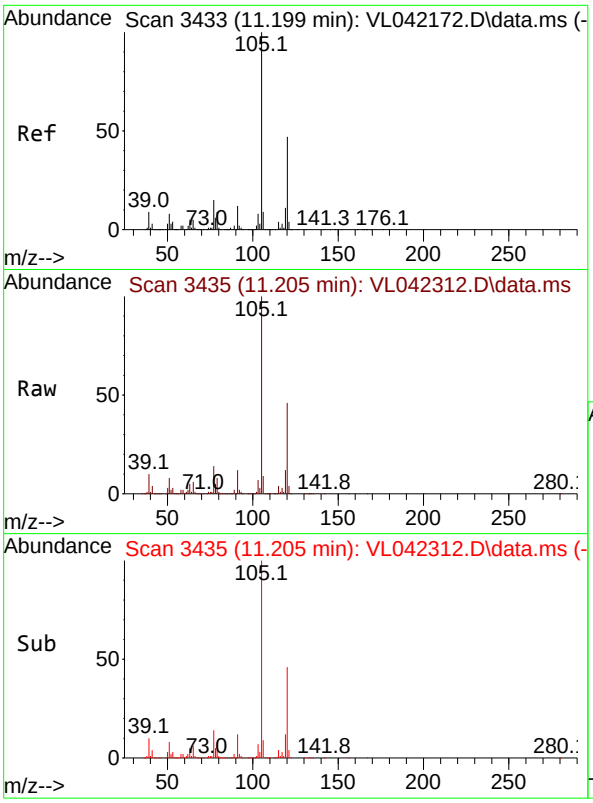




#72
4-Ethyltoluene
Concen: 11.932 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:105 Resp: 847821

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 29.7 | 23.4 | 35.0 |
| 91 | 13.0 | 10.3 | 15.5 |
| 77 | 13.3 | 11.4 | 17.2 |



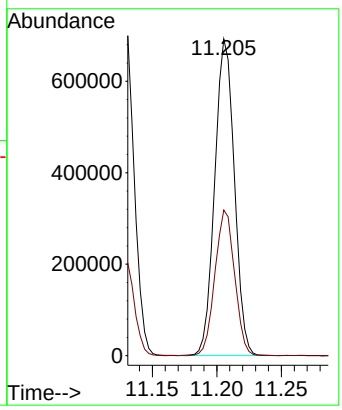


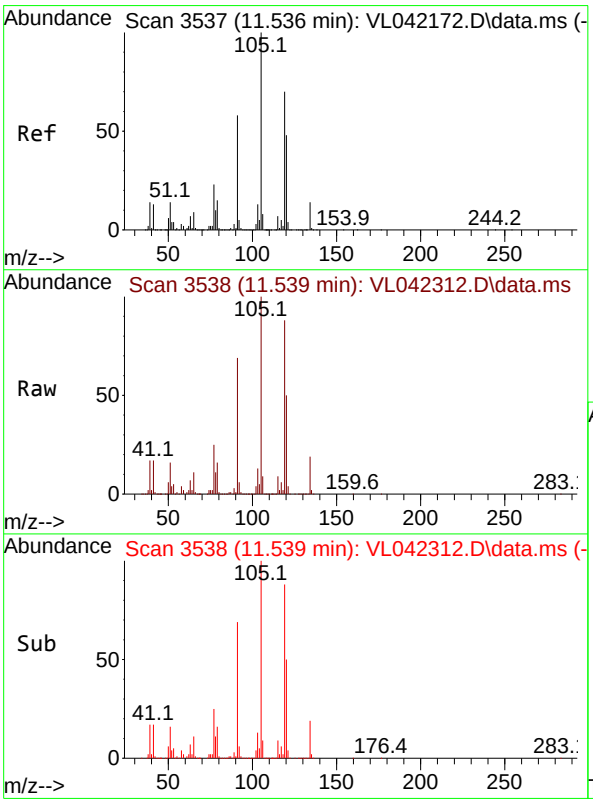

#73
1,3,5-Trimethylbenzene
Concen: 11.762 ppbv
RT: 11.205 min Scan# 34
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:105 Resp: 729887

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.0 | 37.4 | 56.0 |

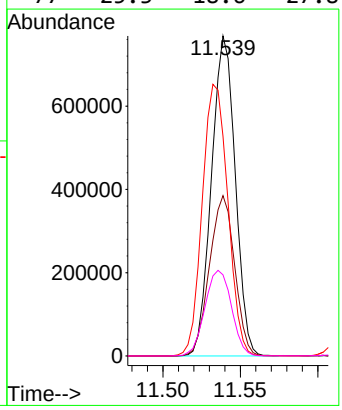


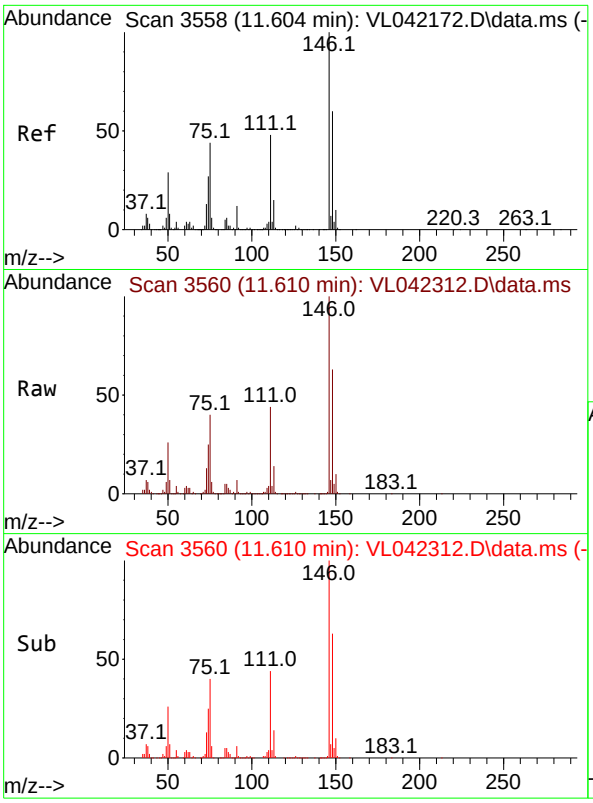




#74
1,2,4-Trimethylbenzene
Concen: 11.463 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:105 Resp: 819490

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 50.1 | 38.6 | 58.0 |
| 91 | 68.5 | 46.2 | 69.2 |
| 77 | 25.3 | 18.6 | 27.8 |



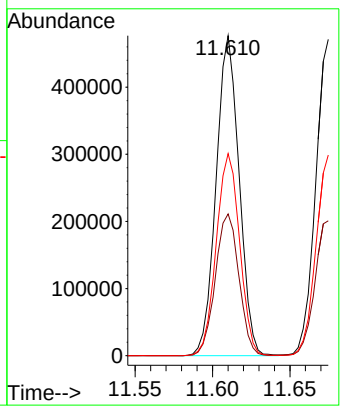


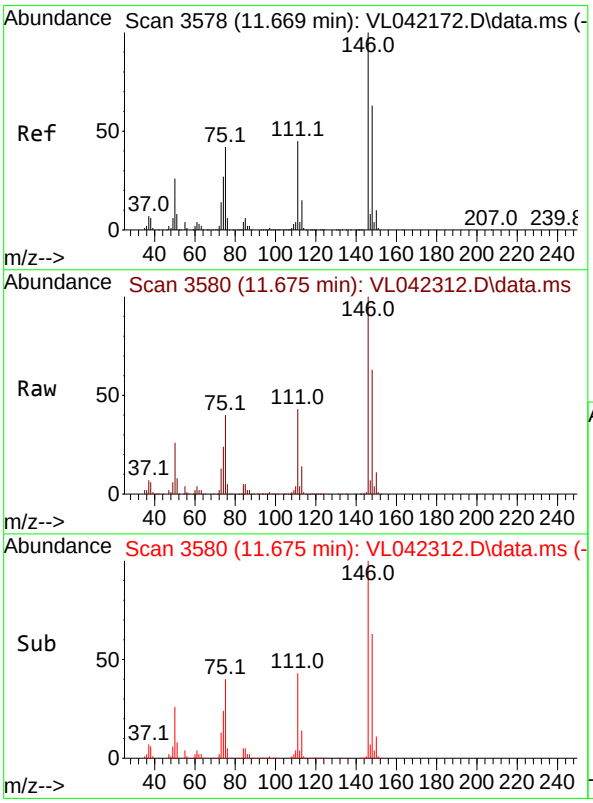

#75
1,3-Dichlorobenzene
Concen: 12.562 ppbv
RT: 11.610 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:146 Resp: 492549

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 45.5 | 23.8 | 71.2 |
| 148 | 64.0 | 31.9 | 95.9 |

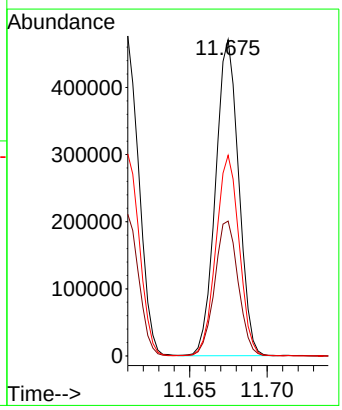


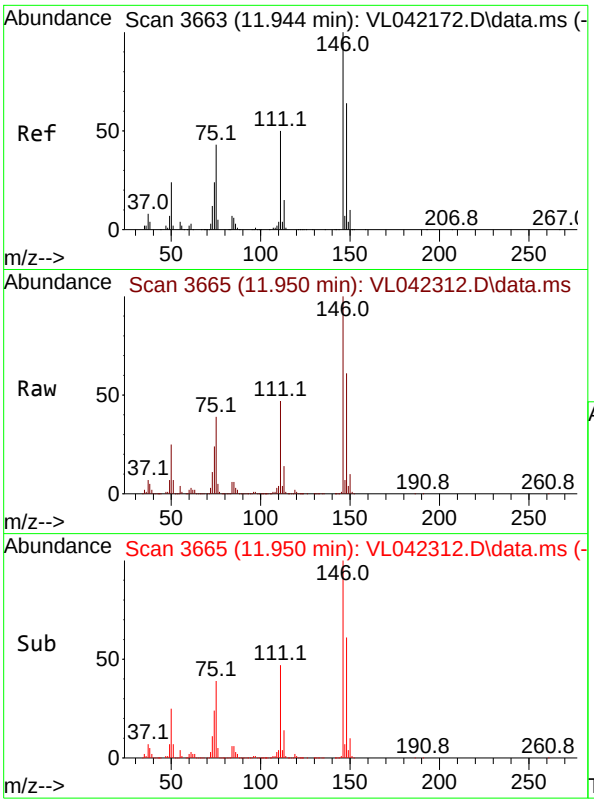




#76
1,4-Dichlorobenzene
Concen: 12.522 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:146 Resp: 488636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.7 | 23.0 | 69.0 |
| 148 | 64.0 | 31.9 | 95.7 |



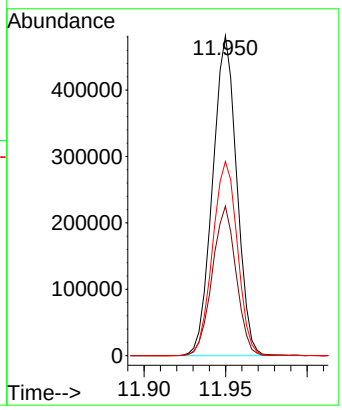


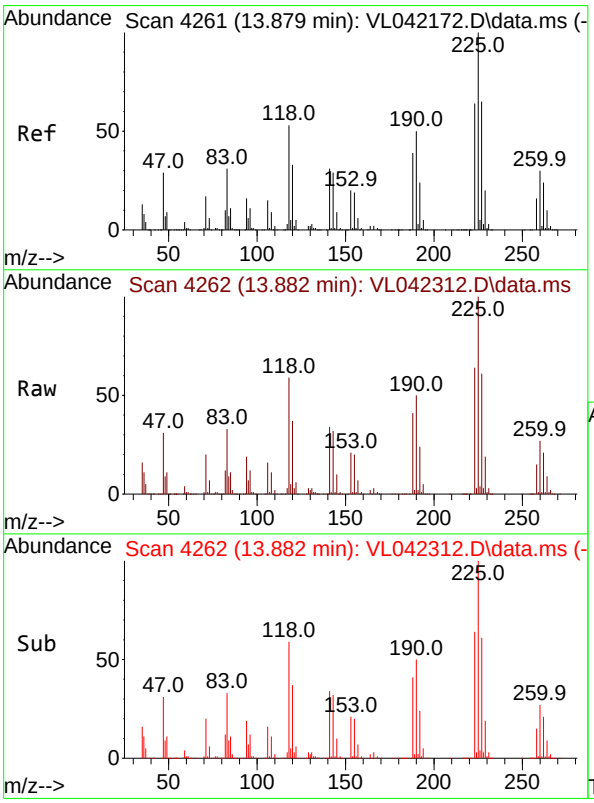

#77
1,2-Dichlorobenzene
Concen: 12.959 ppbv
RT: 11.950 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:146 Resp: 494739

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 46.4 | 24.8 | 74.3 |
| 148 | 62.7 | 31.6 | 94.8 |

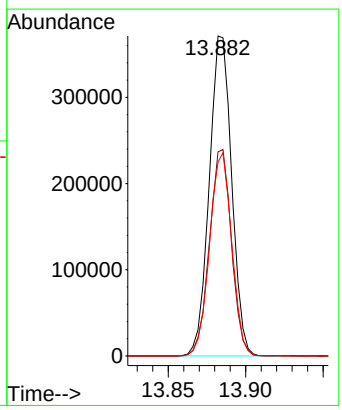


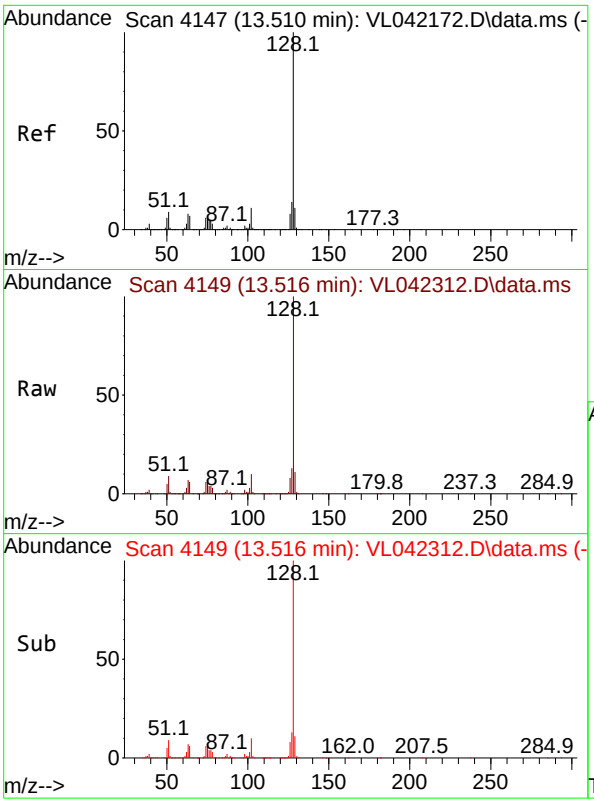




#78
Hexachloro-1,3-Butadiene
Concen: 9.599 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:225 Resp: 373025

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.4 | 50.6 | 76.0 |
| 227 | 62.8 | 51.2 | 76.8 |



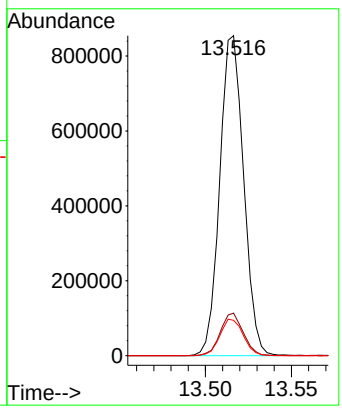


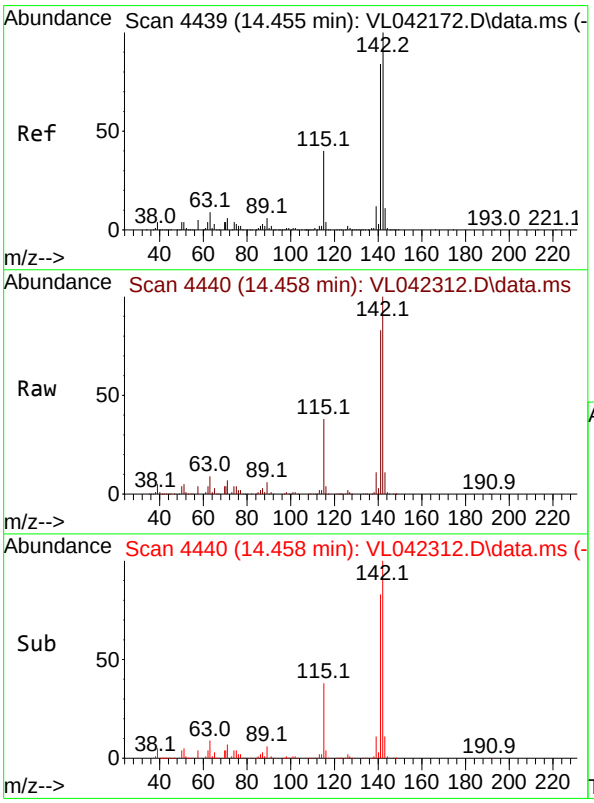

#79
Naphthalene
Concen: 10.550 ppbv
RT: 13.516 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:128 Resp: 824947

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.3 | 10.8 | 16.2 |
| 129 | 11.1 | 9.0 | 13.4 |

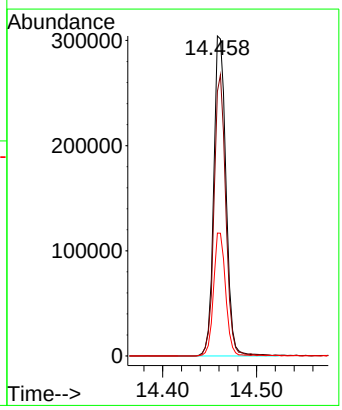


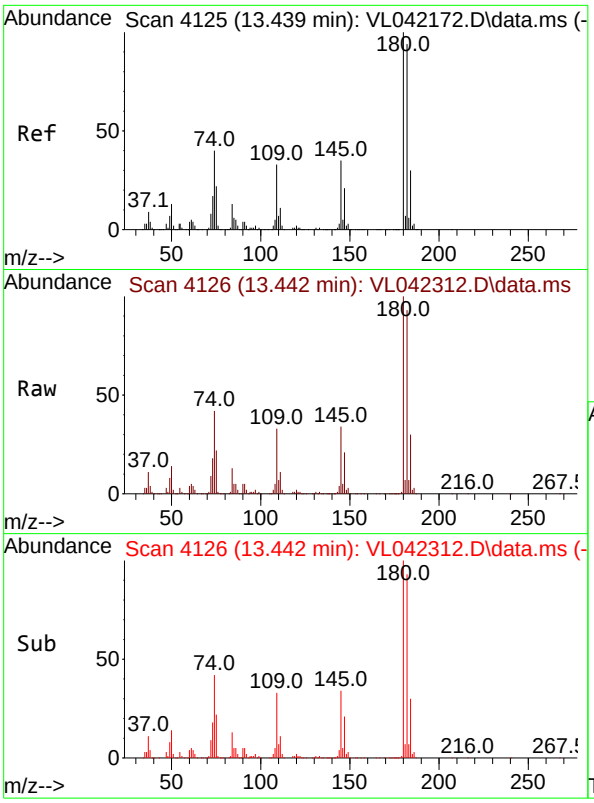




#80
Naphthalene,2-methyl-
Concen: 7.212 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

Tgt Ion:142 Resp: 276556

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 84.7 | 66.3 | 99.5 |
| 115 | 38.0 | 31.6 | 47.4 |



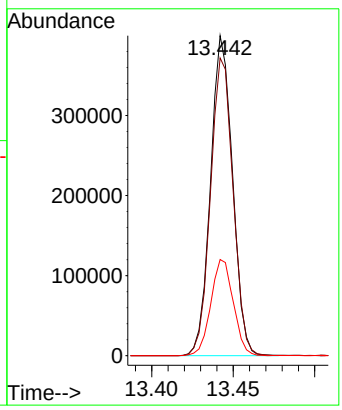



#81
1,2,4-Trichlorobenzene
Concen: 10.389 ppbv
RT: 13.442 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042312.D
Acq: 11 Apr 2025 09:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:180 Resp: 374714

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.6 | 75.1 | 112.7 |
| 184 | 30.8 | 24.4 | 36.6 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042314.D
Acq On : 11 Apr 2025 11:23
Operator : SY/MD
Sample : VL0411ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

Quant Time: Apr 11 22:57:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.784 | 49 | 178456 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.955 | 114 | 444353 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.878 | 117 | 386060 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.374 | 95 | 314180 | 9.910 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 99.100% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.496 | 85 | 260154 | 9.873 | ppbv | 99 |
| 3) Chlorodifluoromethane | 1.473 | 51 | 278310 | 10.339 | ppbv | 99 |
| 4) Chloromethane | 1.531 | 50 | 109906 | 10.207 | ppbv | 97 |
| 5) Vinyl Chloride | 1.577 | 62 | 99540 | 8.723 | ppbv | 96 |
| 6) Bromomethane | 1.667 | 94 | 43354 | 8.884 | ppbv | 99 |
| 7) Chloroethane | 1.703 | 64 | 40372 | 9.340 | ppbv | 100 |
| 8) Dichlorotetrafluoroethane | 1.551 | 85 | 219210 | 9.769 | ppbv | 94 |
| 9) Propene | 1.483 | 41 | 109077 | 8.841 | ppbv | 98 |
| 10) Heptane | 4.975 | 43 | 325268 | 9.912 | ppbv | 98 |
| 11) Trichlorofluoromethane | 1.874 | 101 | 247344 | 9.647 | ppbv | 98 |
| 12) 1,1,2-Trichlorotrifluo... | 2.136 | 101 | 191456 | 9.085 | ppbv | 97 |
| 13) Ethanol | 1.719 | 45 | 4928 | 4.225 | ppbv | 95 |
| 14) Bromoethene | 1.780 | 108 | 70702 | 8.758 | ppbv | 99 |
| 15) Acetone | 1.832 | 43 | 228988 | 9.175 | ppbv | 95 |
| 16) 1,3-Butadiene | 1.606 | 39 | 110429 | 9.060 | ppbv | 97 |
| 17) tert-Butyl alcohol | 2.039 | 59 | 243034 | 7.818 | ppbv | 100 |
| 18) 1,1-Dichloroethene | 2.030 | 96 | 83233 | 8.449 | ppbv | 97 |
| 19) Isopropyl Alcohol | 1.884 | 45 | 118345 | 8.404 | ppbv # | 34 |
| 20) Methylene Chloride | 2.059 | 84 | 75264 | 8.097 | ppbv | 93 |
| 21) Allyl Chloride | 2.094 | 41 | 157261 | 8.934 | ppbv | 98 |
| 22) trans-1,2-Dichloroethene | 2.337 | 96 | 98769 | 8.674 | ppbv | 96 |
| 23) Vinyl Acetate | 2.460 | 43 | 86563 | 8.014 | ppbv | 98 |
| 24) 1,1-Dichloroethane | 2.405 | 63 | 206840 | 9.800 | ppbv | 99 |
| 25) Ethyl Acetate | 2.836 | 43 | 656719 | 10.138 | ppbv | 99 |
| 26) Hexane | 2.823 | 57 | 249860 | 9.986 | ppbv | 98 |
| 27) Carbon Disulfide | 2.146 | 76 | 236998 | 8.833 | ppbv | 99 |
| 28) Methyl tert-Butyl Ether | 2.438 | 73 | 122818 | 7.884 | ppbv | 97 |
| 29) Chloroform | 2.845 | 83 | 384713 | 10.506 | ppbv | 100 |
| 30) Cyclohexane | 3.852 | 84 | 196133 | 9.028 | ppbv | 97 |
| 31) cis-1,2-Dichloroethene | 2.719 | 61 | 233371 | 9.187 | ppbv | 97 |
| 32) 1,1,1-Trichloroethane | 3.363 | 97 | 370405 | 8.836 | ppbv | 98 |
| 34) 2-Butanone | 2.554 | 43 | 362633 | 11.254 | ppbv | 98 |
| 35) Carbon Tetrachloride | 3.758 | 117 | 389738 | 11.228 | ppbv | 99 |
| 36) Benzene | 3.654 | 78 | 490339 | 11.131 | ppbv | 96 |
| 37) 1,2-Dichloroethane | 3.214 | 62 | 290983 | 11.538 | ppbv | 100 |
| 38) Trichloroethene | 4.545 | 130 | 195654 | 10.645 | ppbv | 99 |
| 39) 1,2-Dichloropropane | 4.312 | 63 | 179954 | 11.217 | ppbv | 91 |
| 40) 1,4-Dioxane | 4.580 | 88 | 80106 | 9.408 | ppbv # | 83 |
| 41) Tetrahydrofuran | 3.052 | 42 | 202793 | 10.930 | ppbv | 94 |
| 42) Bromodichloromethane | 4.486 | 83 | 405729 | 11.669 | ppbv | 97 |
| 43) Methyl Methacrylate | 4.875 | 69 | 177423 | 9.514 | ppbv | 98 |
| 44) 2,2,4-Trimethylpentane | 4.635 | 57 | 850971 | 11.431 | ppbv | 97 |
| 45) t-1,3-Dichloropropene | 6.412 | 75 | 166246 | 8.309 | ppbv | 93 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042314.D
Acq On : 11 Apr 2025 11:23
Operator : SY/MD
Sample : VL0411ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

Quant Time: Apr 11 22:57:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

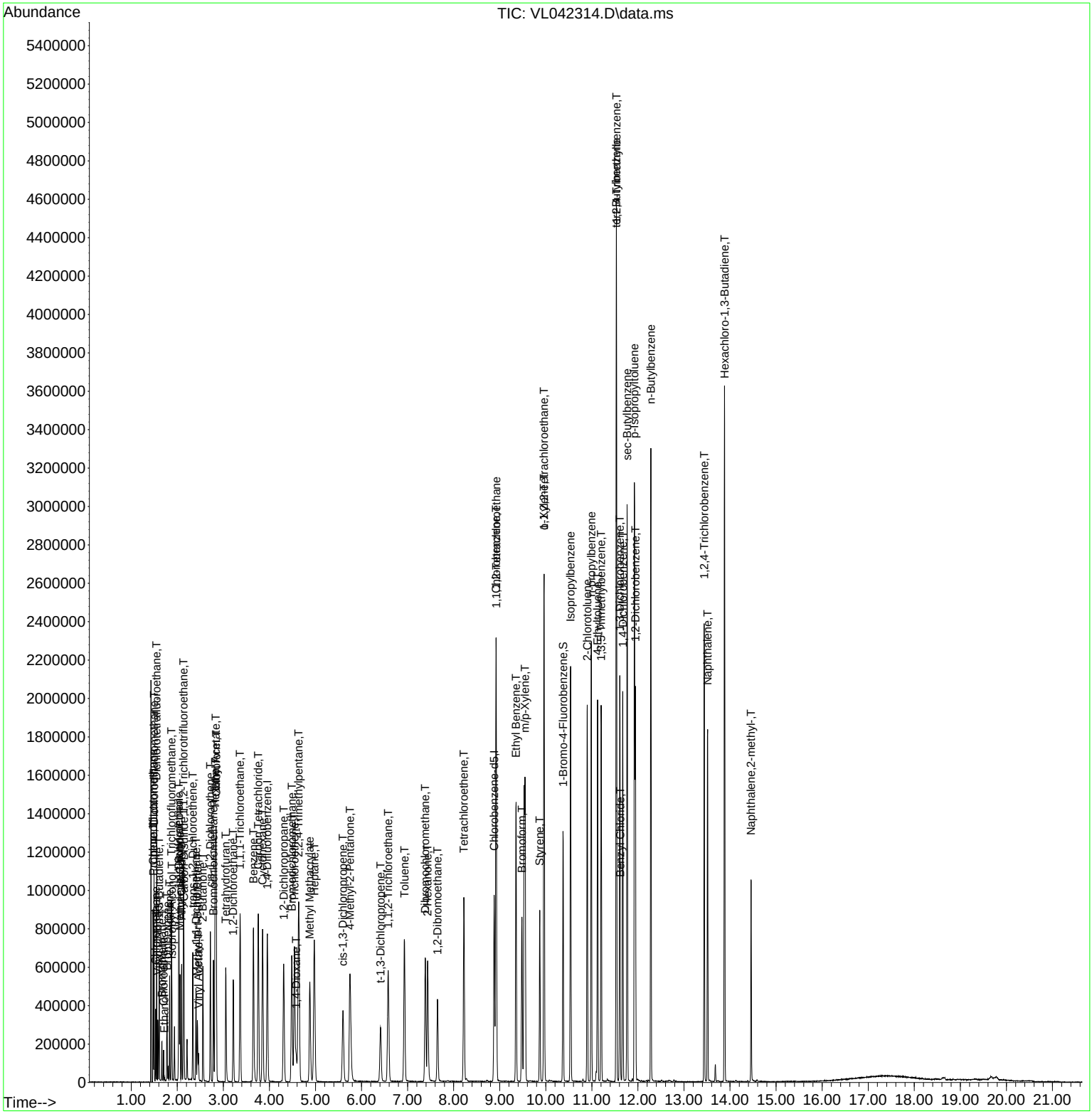
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.596 | 75 | 225952 | 9.213 | ppbv | | 99 |
| 47) 1,1,2-Trichloroethane | 6.580 | 97 | 198762 | 11.720 | ppbv | | 97 |
| 48) Dibromochloromethane | 7.383 | 129 | 321370 | 11.181 | ppbv | | 100 |
| 49) Bromoform | 9.480 | 173 | 291905 | 11.313 | ppbv | | 99 |
| 50) 4-Methyl-2-Pentanone | 5.749 | 43 | 514910 | 10.084 | ppbv | | 95 |
| 51) 2-Hexanone | 7.435 | 43 | 414681 | 9.889 | ppbv | # | 94 |
| 52) Tetrachloroethene | 8.221 | 164 | 165666 | 9.483 | ppbv | | 96 |
| 53) Toluene | 6.933 | 91 | 526341 | 10.079 | ppbv | | 99 |
| 54) 1,2-Dibromoethane | 7.649 | 107 | 264126 | 11.172 | ppbv | | 97 |
| 56) 1,1,1,2-Tetrachloroethane | 8.924 | 131 | 271061 | 12.755 | ppbv | | 97 |
| 57) Chlorobenzene | 8.921 | 112 | 457204 | 12.486 | ppbv | | 96 |
| 58) Ethyl Benzene | 9.354 | 91 | 761549 | 11.105 | ppbv | | 98 |
| 59) m/p-Xylene | 9.548 | 91 | 575744 | 10.514 | ppbv | # | 6 |
| 60) o-Xylene | 9.963 | 91 | 654791 | 11.929 | ppbv | | 96 |
| 61) Styrene | 9.869 | 104 | 284318 | 10.470 | ppbv | | 98 |
| 62) Isopropylbenzene | 10.539 | 105 | 975799 | 11.887 | ppbv | | 98 |
| 63) 1,1,2,2-Tetrachloroethane | 9.963 | 83 | 440972 | 13.222 | ppbv | | 100 |
| 64) n-propylbenzene | 10.989 | 120 | 264518 | 12.518 | ppbv | | 96 |
| 65) tert-Butylbenzene | 11.529 | 119 | 908946 | 11.973 | ppbv | | 99 |
| 66) Benzyl Chloride | 11.617 | 91 | 69548 | 8.634 | ppbv | | 98 |
| 67) sec-Butylbenzene | 11.765 | 105 | 1300090 | 12.320 | ppbv | | 100 |
| 69) p-Isopropyltoluene | 11.924 | 119 | 1095041 | 12.051 | ppbv | | 98 |
| 70) n-Butylbenzene | 12.280 | 91 | 1129853 | 12.159 | ppbv | | 100 |
| 71) 2-Chlorotoluene | 10.901 | 91 | 749737 | 11.768 | ppbv | | 99 |
| 72) 4-Ethyltoluene | 11.125 | 105 | 825037 | 12.071 | ppbv | | 99 |
| 73) 1,3,5-Trimethylbenzene | 11.202 | 105 | 711175 | 11.914 | ppbv | | 99 |
| 74) 1,2,4-Trimethylbenzene | 11.536 | 105 | 816505 | 11.873 | ppbv | | 91 |
| 75) 1,3-Dichlorobenzene | 11.607 | 146 | 484099 | 12.835 | ppbv | | 98 |
| 76) 1,4-Dichlorobenzene | 11.672 | 146 | 485460 | 12.933 | ppbv | | 98 |
| 77) 1,2-Dichlorobenzene | 11.947 | 146 | 485421 | 13.218 | ppbv | | 98 |
| 78) Hexachloro-1,3-Butadiene | 13.882 | 225 | 366850 | 9.814 | ppbv | | 99 |
| 79) Naphthalene | 13.513 | 128 | 820200 | 10.904 | ppbv | | 100 |
| 80) Naphthalene,2-methyl- | 14.455 | 142 | 274227 | 7.434 | ppbv | | 98 |
| 81) 1,2,4-Trichlorobenzene | 13.439 | 180 | 373404 | 10.762 | ppbv | | 99 |

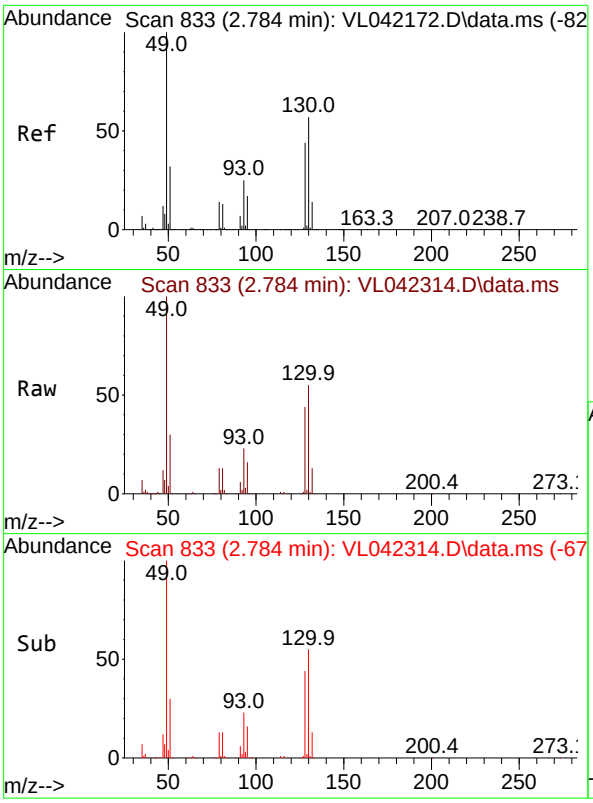
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042314.D
Acq On : 11 Apr 2025 11:23
Operator : SY/MD
Sample : VL0411ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

Quant Time: Apr 11 22:57:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration



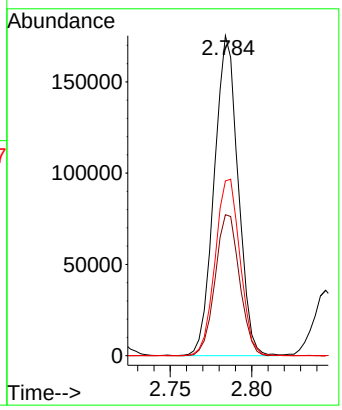


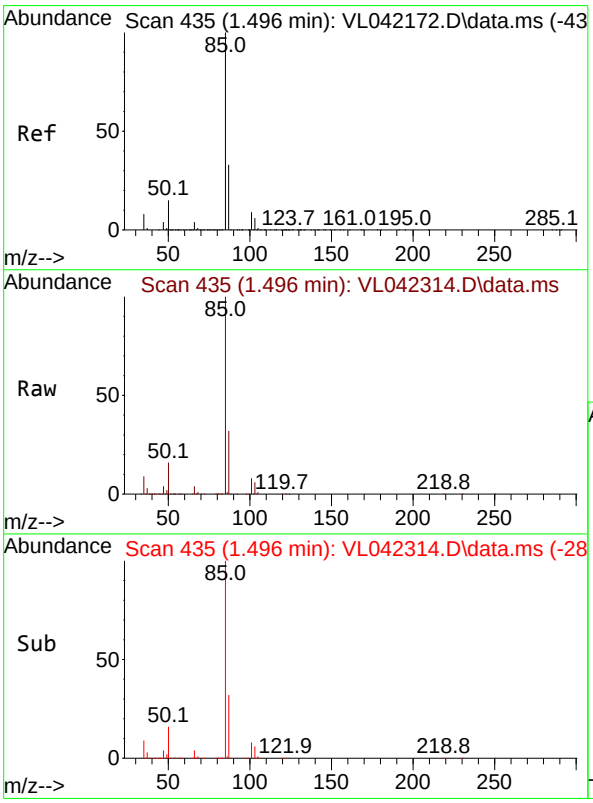

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

Tgt Ion: 49 Resp: 178456

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 45.1 | 22.9 | 68.5 |
| 130 | 57.3 | 28.8 | 86.4 |

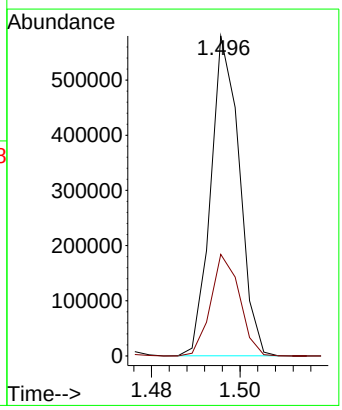


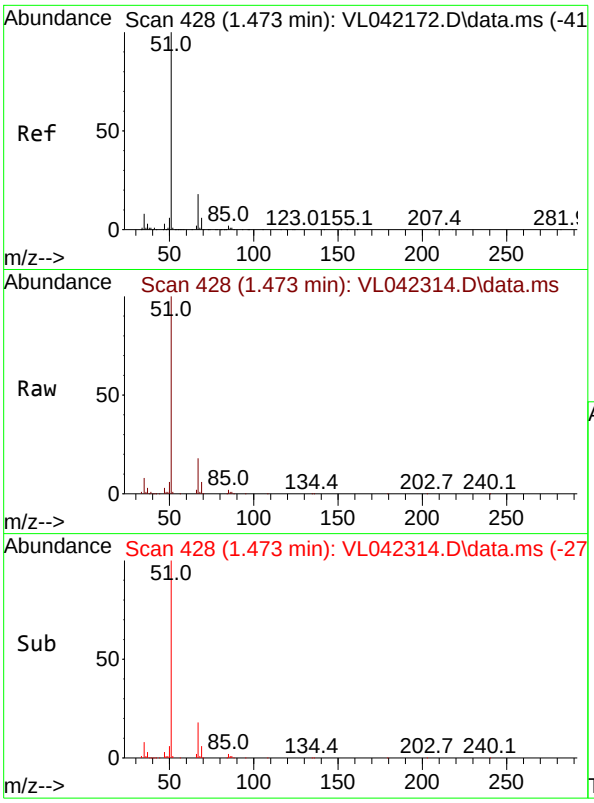




#2
Dichlorodifluoromethane
Concen: 9.873 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 85 Resp: 260154

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.8 | 26.1 | 39.1 |



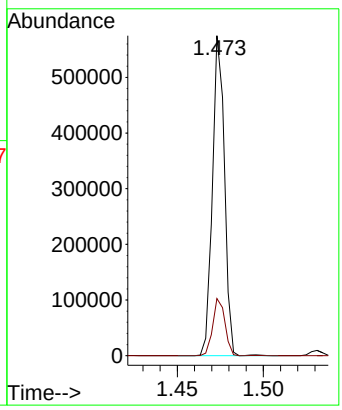


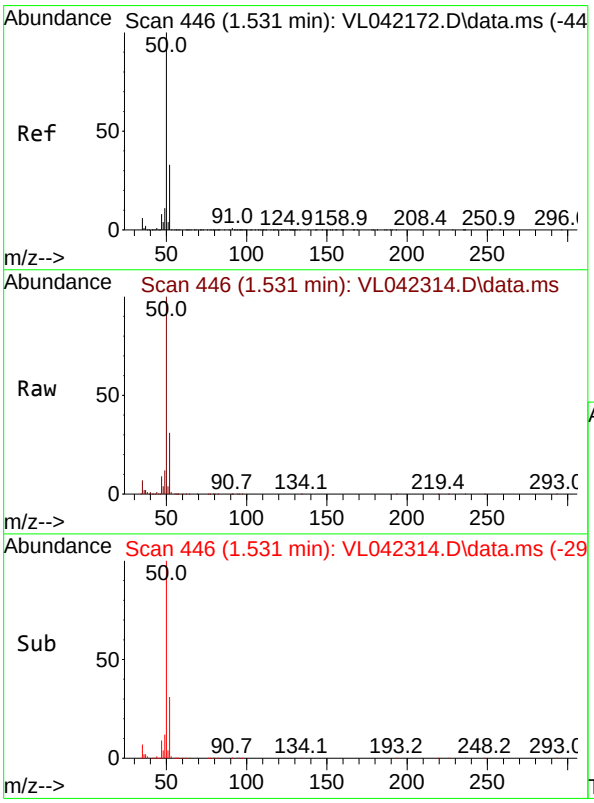

#3
Chlorodifluoromethane
Concen: 10.339 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

Tgt Ion: 51 Resp: 278310

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 18.2 | 15.0 | 22.6 |

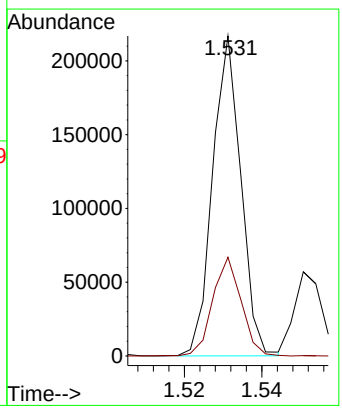


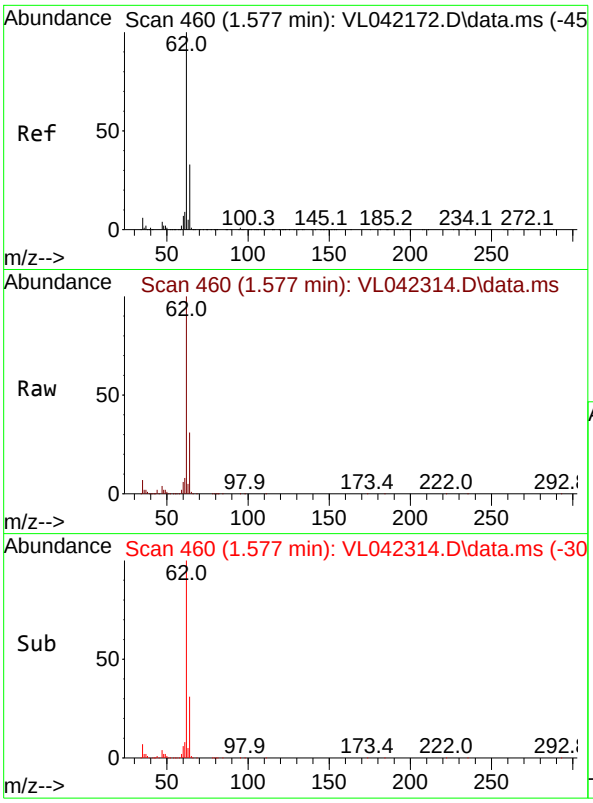




#4
Chloromethane
Concen: 10.207 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 50 Resp: 109906

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 30.8 | 26.1 | 39.1 |



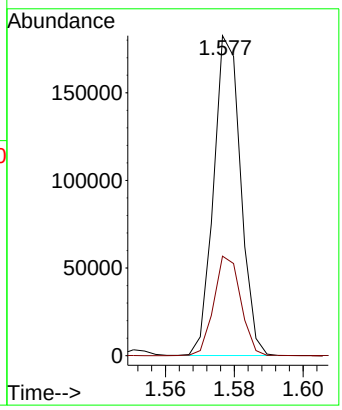


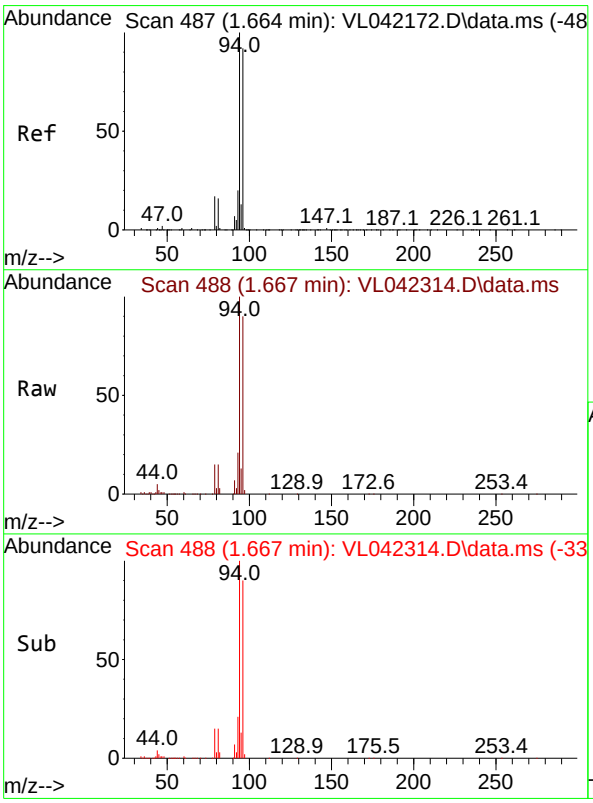

#5
Vinyl Chloride
Concen: 8.723 ppbv
RT: 1.577 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

Tgt Ion: 62 Resp: 99540

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.0 | 26.6 | 40.0 |

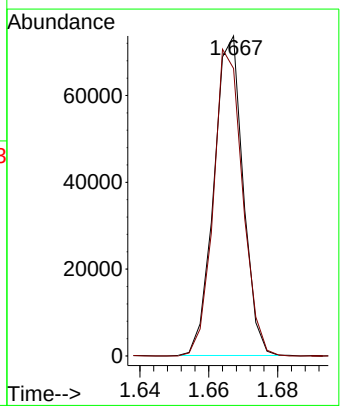


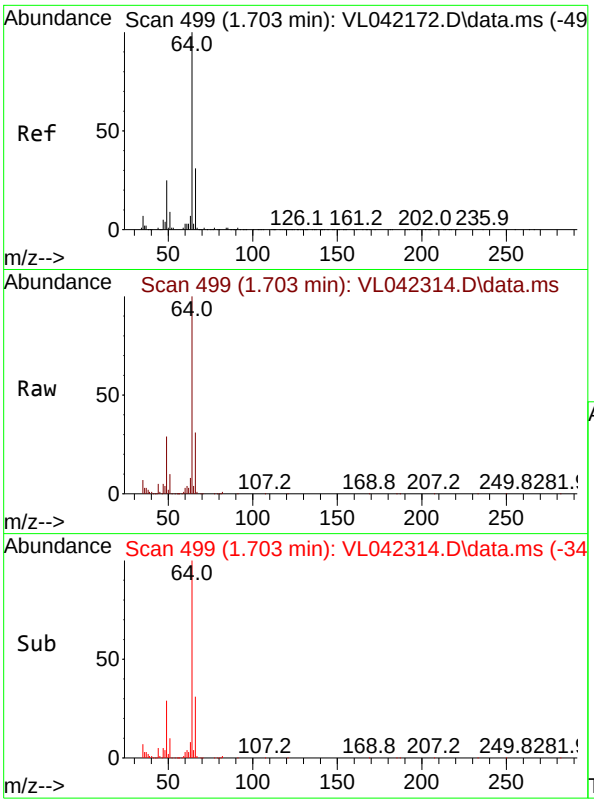




#6
Bromomethane
Concen: 8.884 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 94 Resp: 43354

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 90.0 | 73.1 | 109.7 |



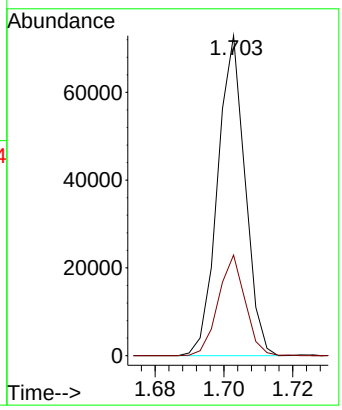


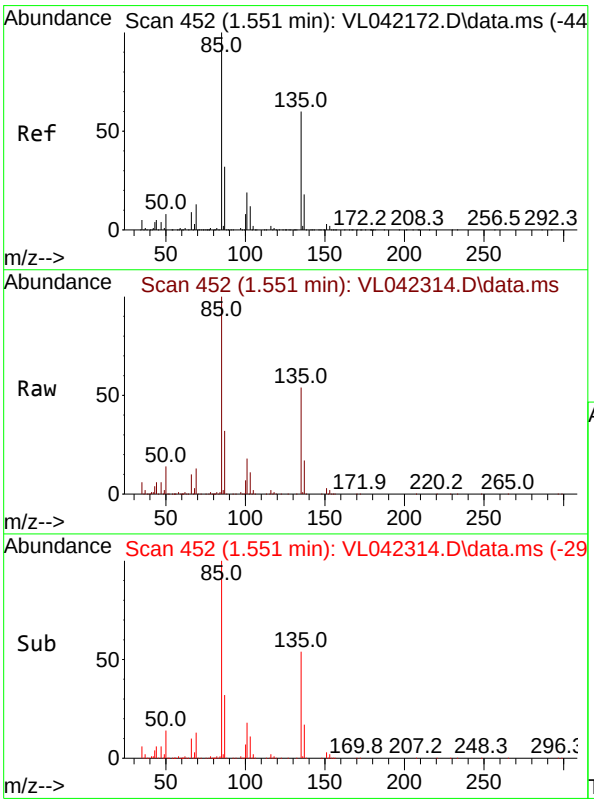

#7
Chloroethane
Concen: 9.340 ppbv
RT: 1.703 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

Tgt Ion: 64 Resp: 40372

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 31.5 | 25.2 | 37.8 |

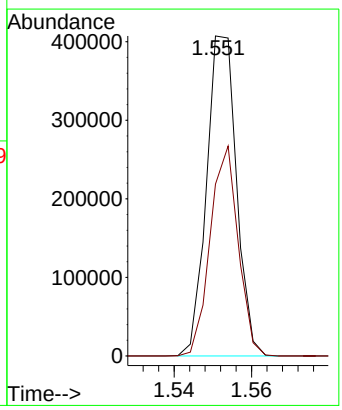


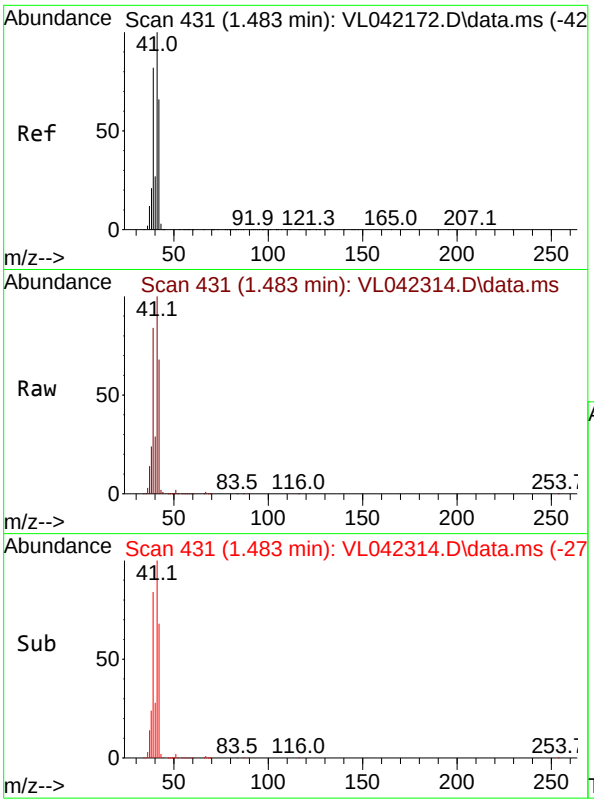




#8
Dichlorotetrafluoroethane
Concen: 9.769 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 85 Resp: 219210

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 61.1 | 52.4 | 78.6 |



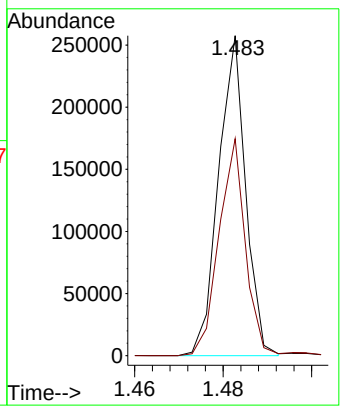


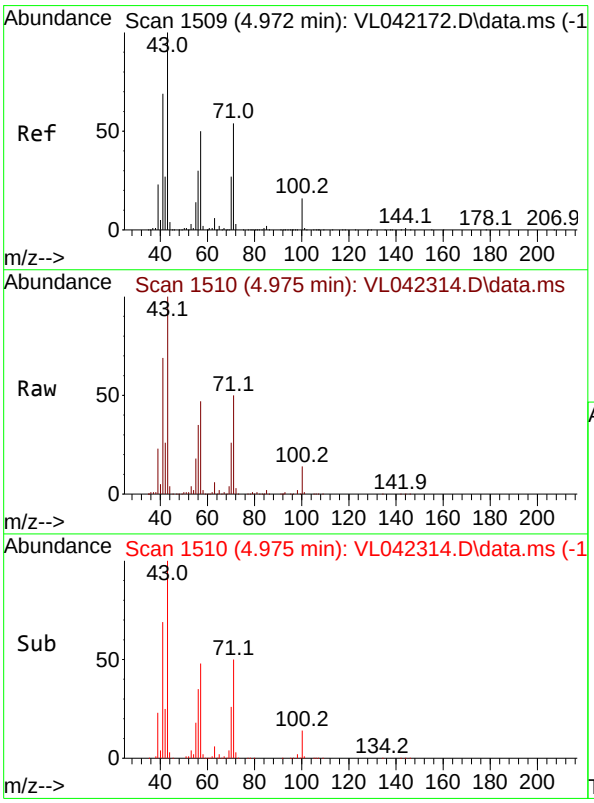

#9
Propene
Concen: 8.841 ppbv
RT: 1.483 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

Tgt Ion: 41 Resp: 109077

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 67.5 | 55.4 | 83.2 |

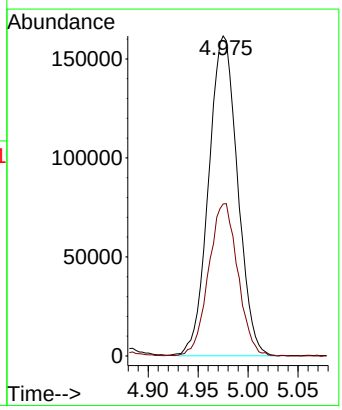


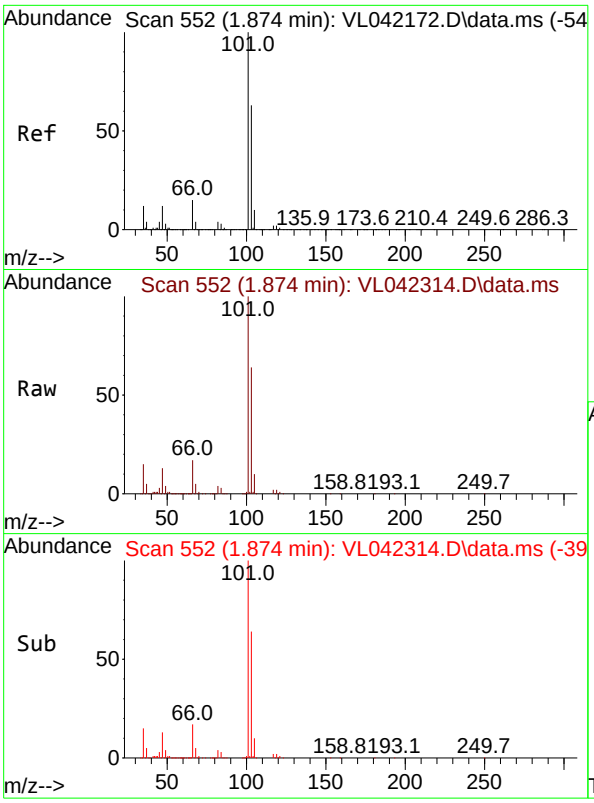




#10
Heptane
Concen: 9.912 ppbv
RT: 4.975 min Scan# 1510
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 43 Resp: 325268

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 48.1 | 39.4 | 59.2 |



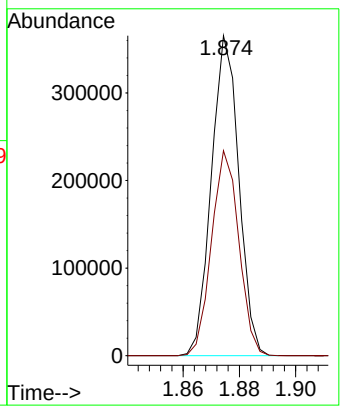


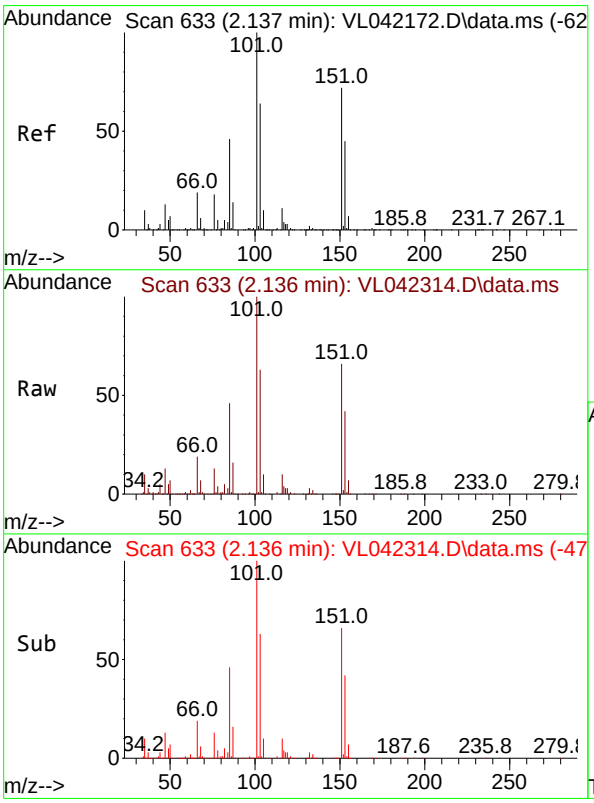

#11
Trichlorofluoromethane
Concen: 9.647 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

Tgt Ion:101 Resp: 247344

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.0 | 50.2 | 75.2 |

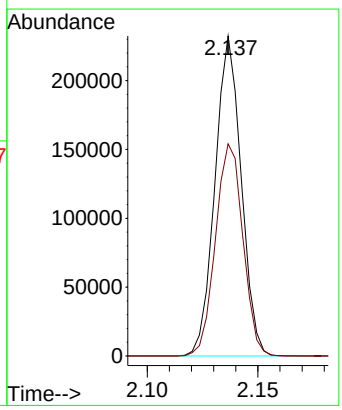


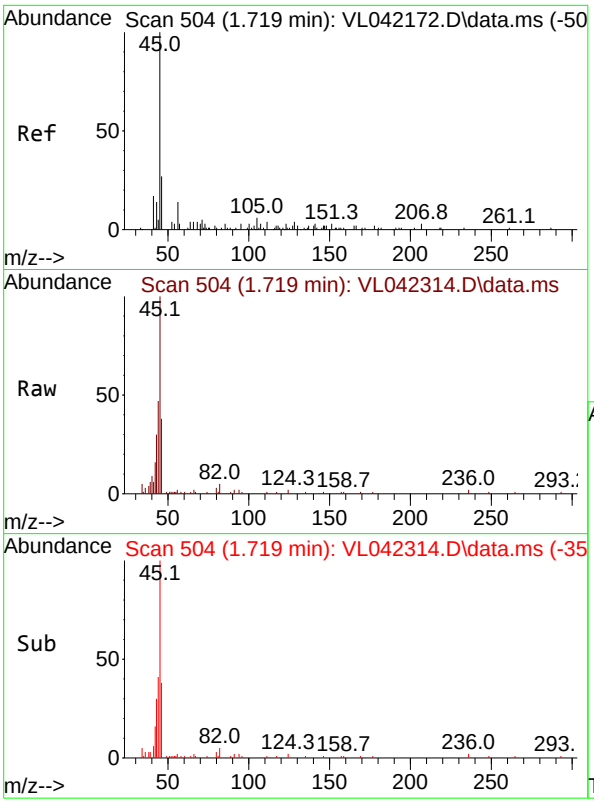




#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.085 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion:101 Resp: 191456

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 69.3 | 57.1 | 85.7 |



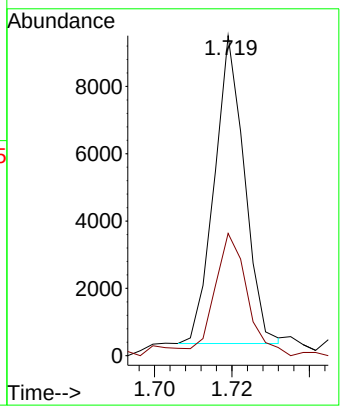


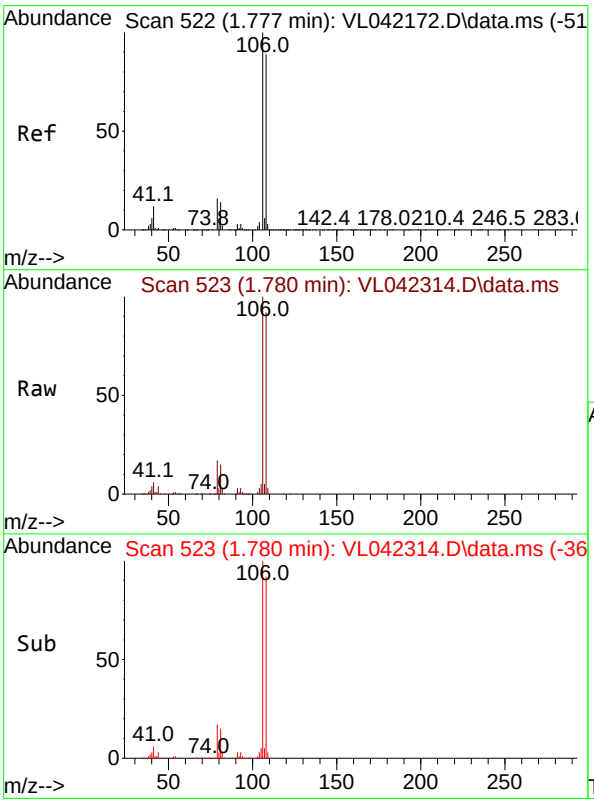

#13
Ethanol
Concen: 4.225 ppbv
RT: 1.719 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

Tgt Ion: 45 Resp: 4928

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 46.9 | 20.2 | 80.8 |

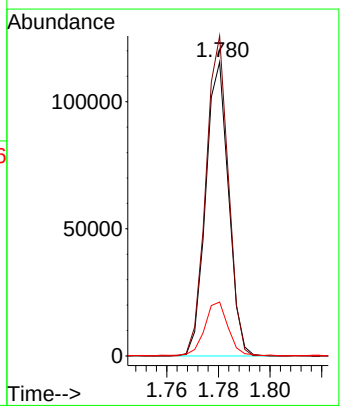


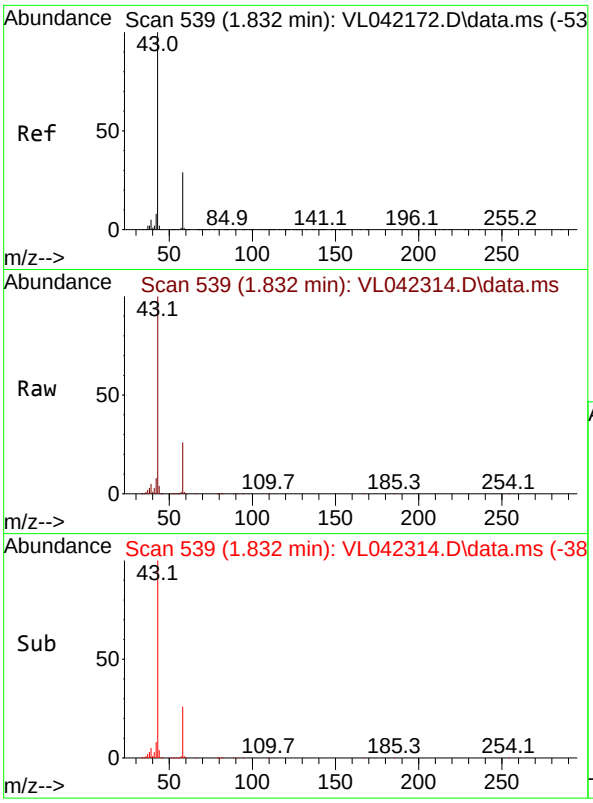




#14
Bromoethene
Concen: 8.758 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion:108 Resp: 70702

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 106 | 107.1 | 86.8 | 130.2 |
| 79 | 19.5 | 15.0 | 22.6 |



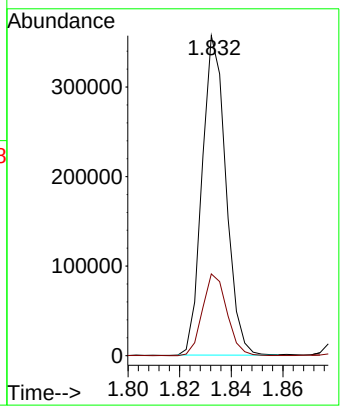


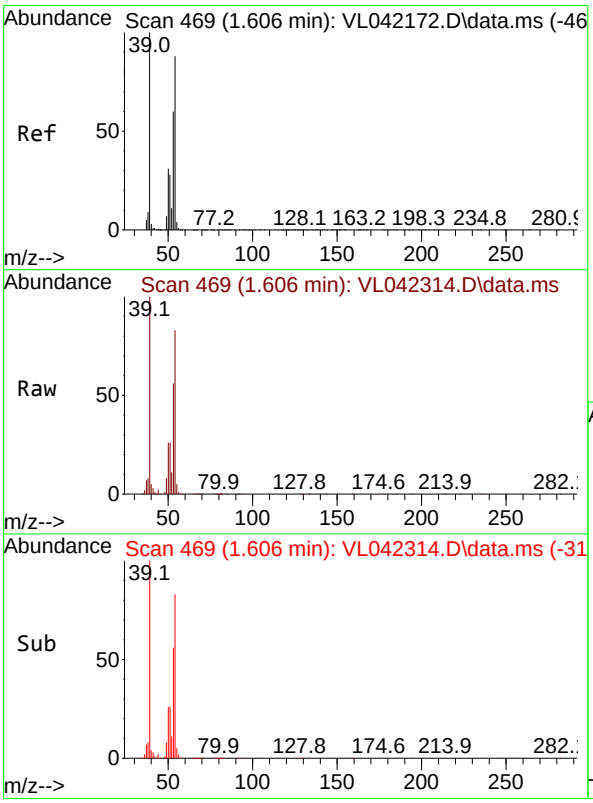

#15
Acetone
Concen: 9.175 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

Tgt Ion: 43 Resp: 228988

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 26.3 | 23.2 | 34.8 |

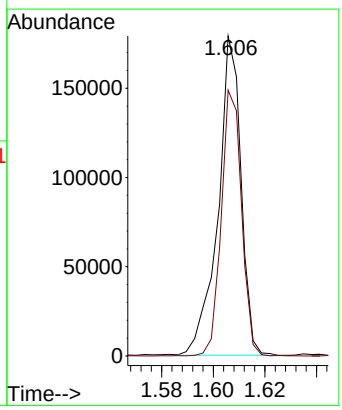


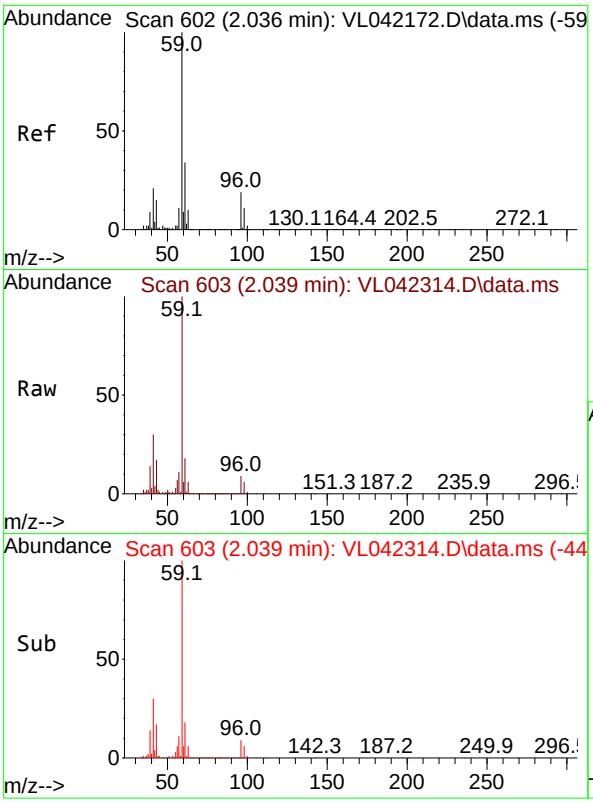




#16
1,3-Butadiene
Concen: 9.060 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 39 Resp: 110429

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 73.5 | 60.7 | 91.1 |



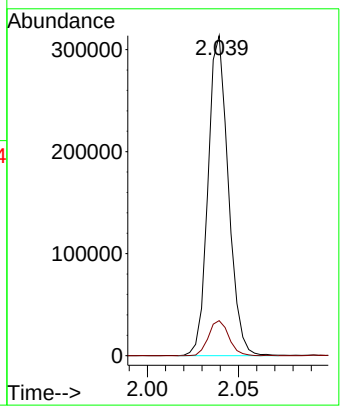


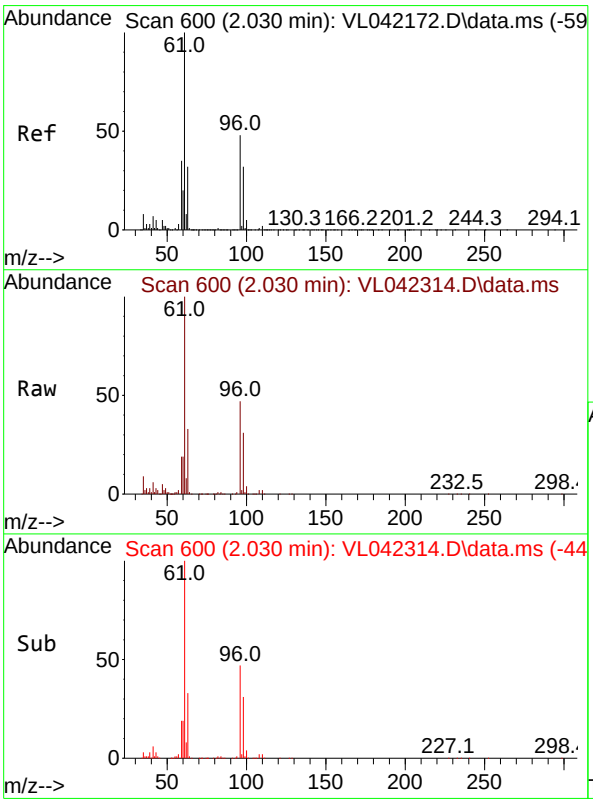

#17
tert-Butyl alcohol
Concen: 7.818 ppbv
RT: 2.039 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

Tgt Ion: 59 Resp: 243034

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 11.0 | 8.9 | 13.3 |

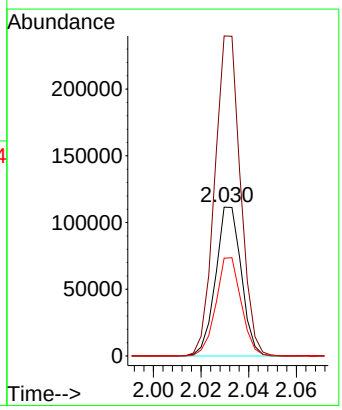


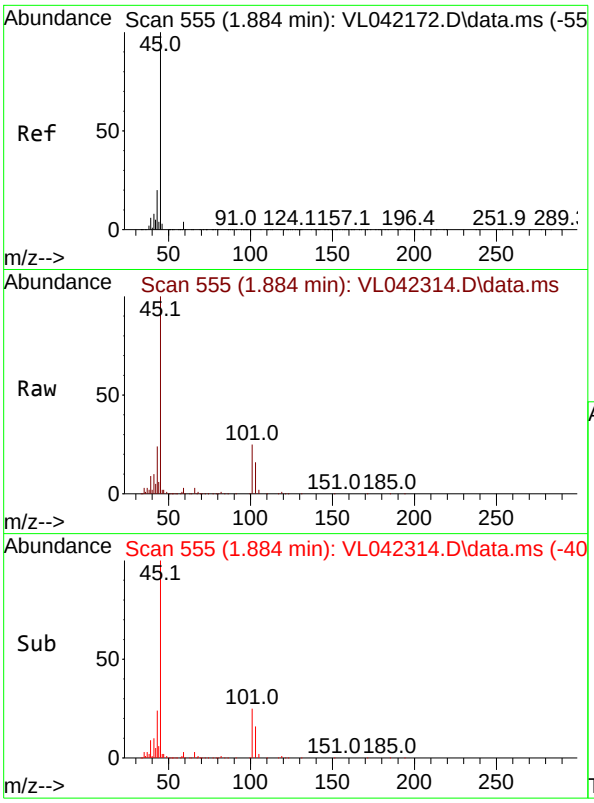




#18
1,1-Dichloroethene
Concen: 8.449 ppbv
RT: 2.030 min Scan# 600
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 96 Resp: 83233

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 215.0 | 167.6 | 251.4 |
| 98 | 65.6 | 53.5 | 80.3 |



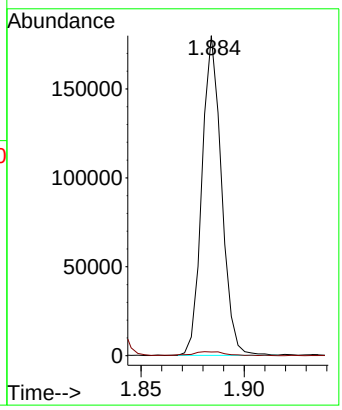


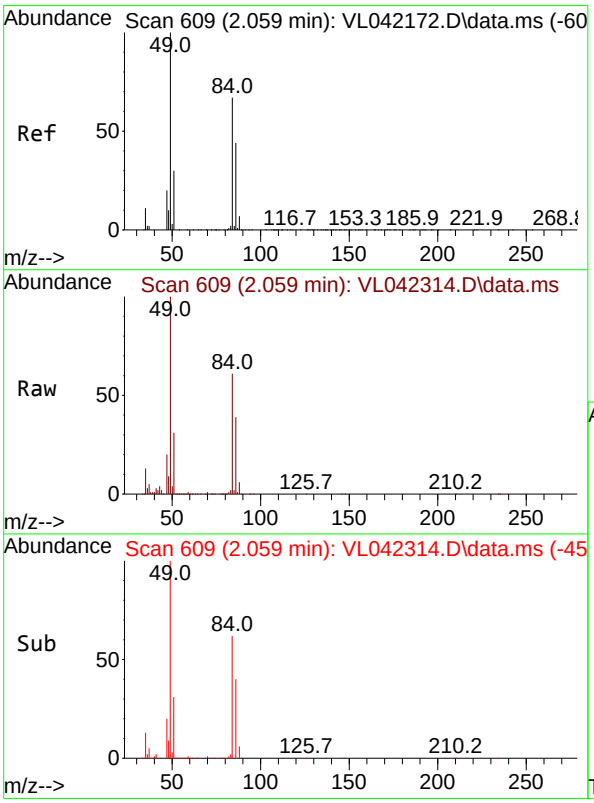

#19
Isopropyl Alcohol
Concen: 8.404 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

Tgt Ion: 45 Resp: 118345

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 2.2 | 36.9 | 55.3# |

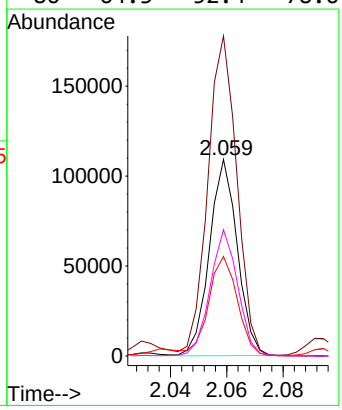


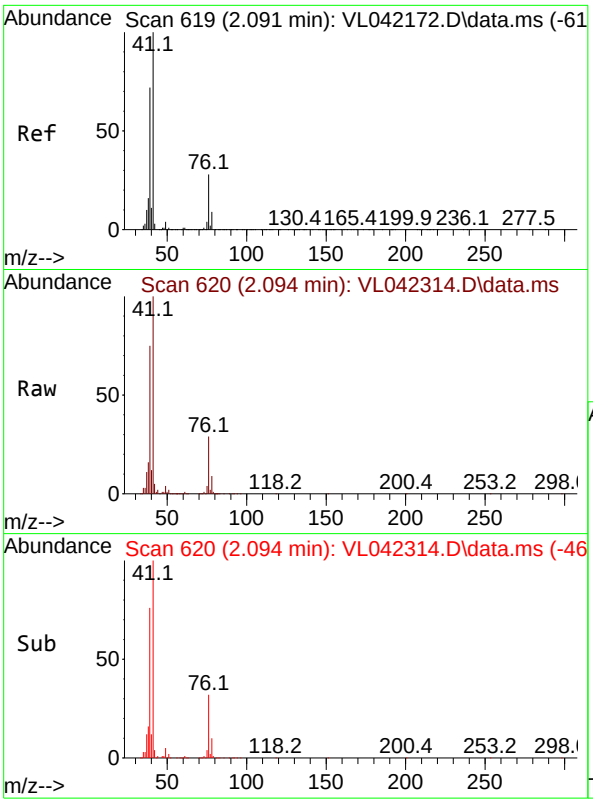




#20
Methylene Chloride
Concen: 8.097 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 84 Resp: 75264

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 162.8 | 120.2 | 180.4 |
| 51 | 50.6 | 37.4 | 56.0 |
| 86 | 64.3 | 52.4 | 78.6 |



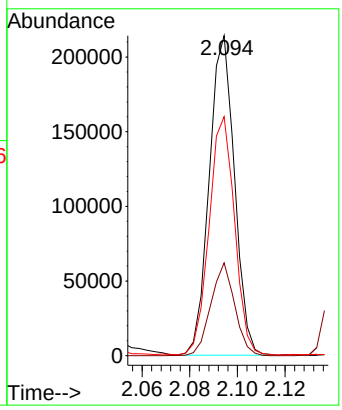


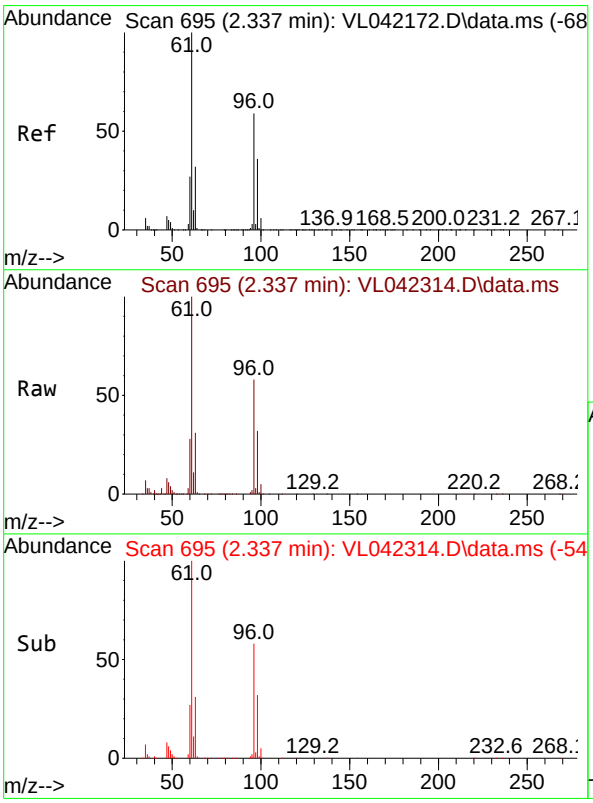

#21
Allyl Chloride
Concen: 8.934 ppbv
RT: 2.094 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

Tgt Ion: 41 Resp: 157261

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 27.5 | 24.1 | 36.1 |
| 39 | 75.1 | 61.1 | 91.7 |

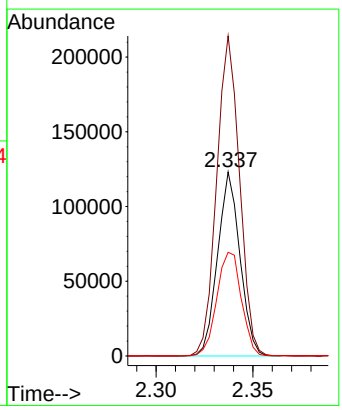


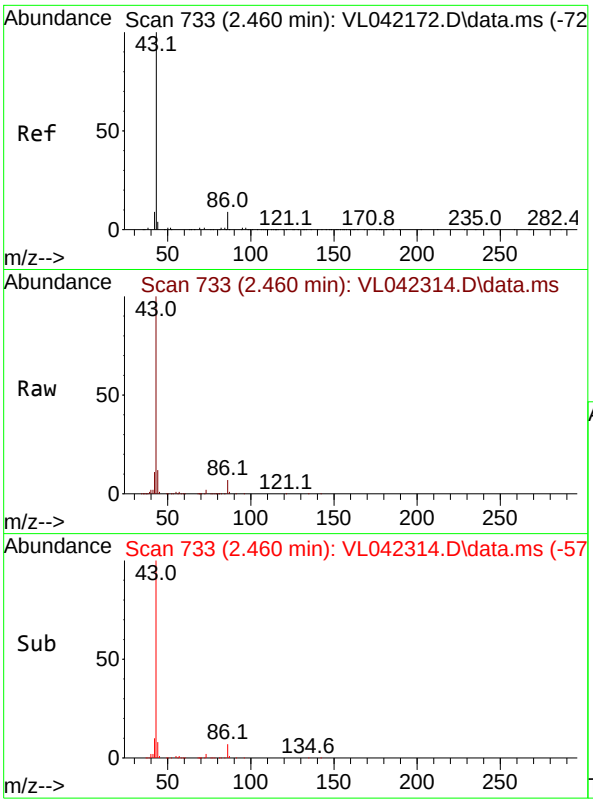




#22
trans-1,2-Dichloroethene
Concen: 8.674 ppbv
RT: 2.337 min Scan# 695
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 96 Resp: 98769

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 173.9 | 136.6 | 204.8 |
| 98 | 56.3 | 49.4 | 74.2 |



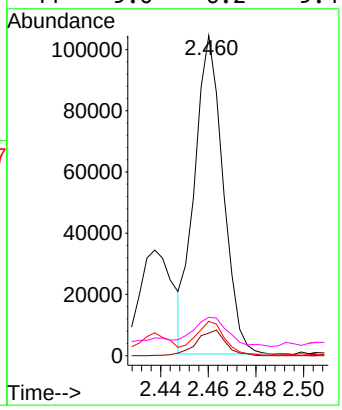


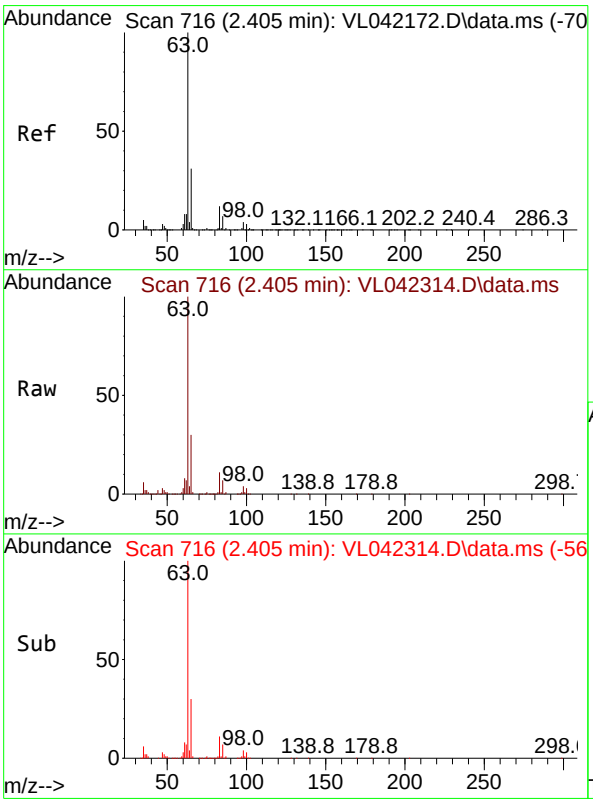

#23
Vinyl Acetate
Concen: 8.014 ppbv
RT: 2.460 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

Tgt Ion: 43 Resp: 86563

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 7.1 | 5.5 | 8.3 |
| 42 | 9.9 | 8.6 | 13.0 |
| 44 | 9.0 | 6.2 | 9.4 |

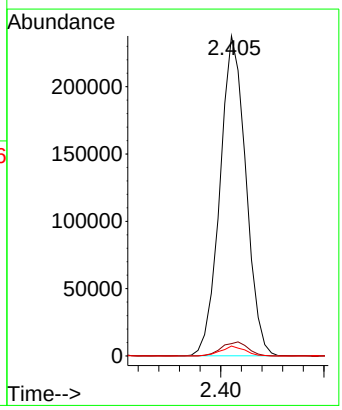


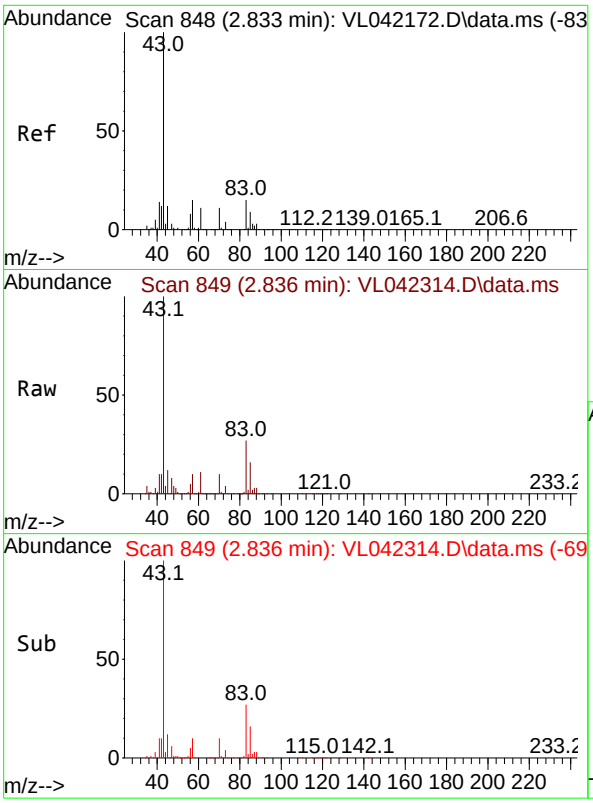




#24
1,1-Dichloroethane
Concen: 9.800 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 63 Resp: 206840

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 3.8 | 2.3 | 6.8 |
| 100 | 3.1 | 1.6 | 4.7 |



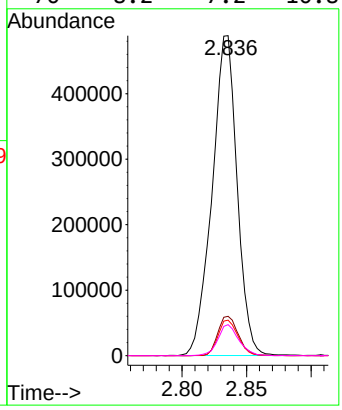


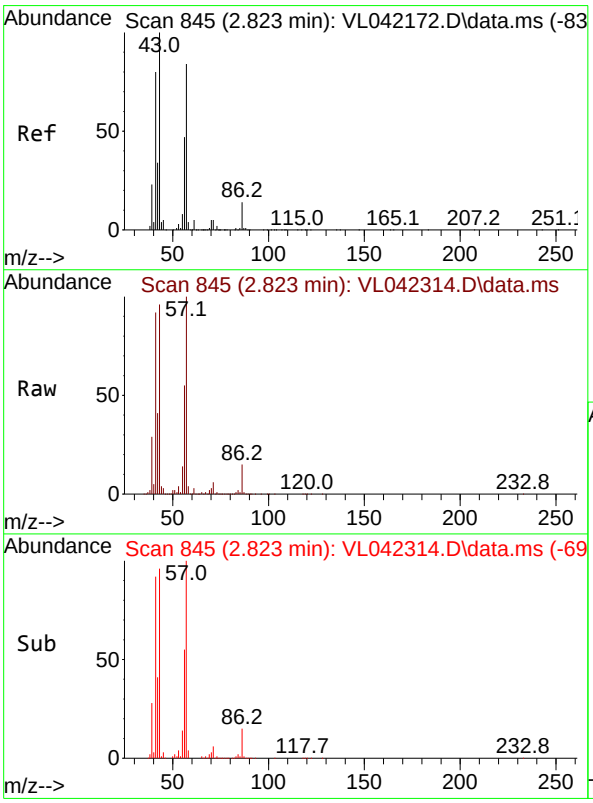

#25
Ethyl Acetate
Concen: 10.138 ppbv
RT: 2.836 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

Tgt Ion: 43 Resp: 656719

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 10.2 | 8.2 | 12.2 |
| 61 | 9.0 | 7.3 | 10.9 |
| 70 | 8.2 | 7.2 | 10.8 |

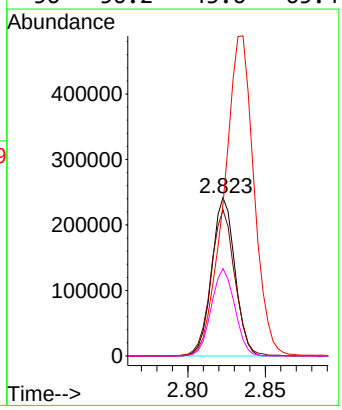


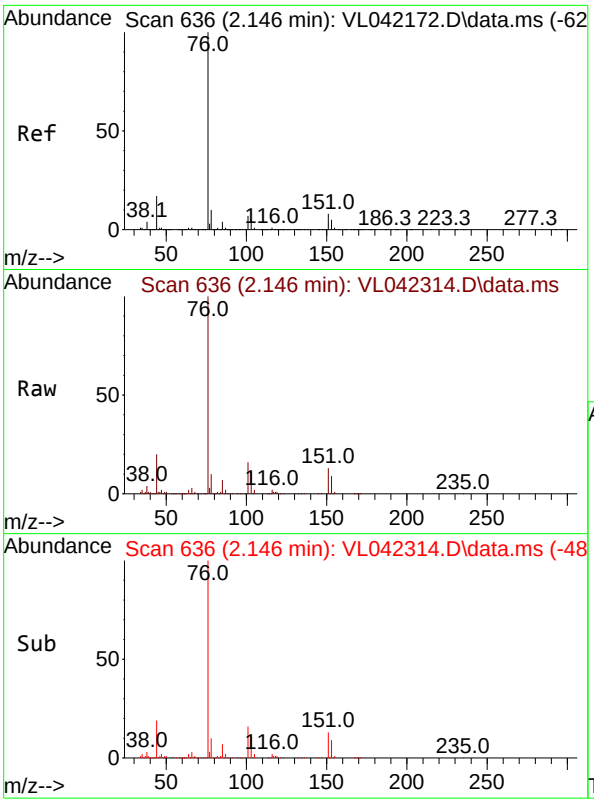




#26
Hexane
Concen: 9.986 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 57 Resp: 249860

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 97.2 | 76.6 | 114.8 |
| 43 | 264.3 | 207.8 | 311.8 |
| 56 | 56.2 | 43.6 | 65.4 |



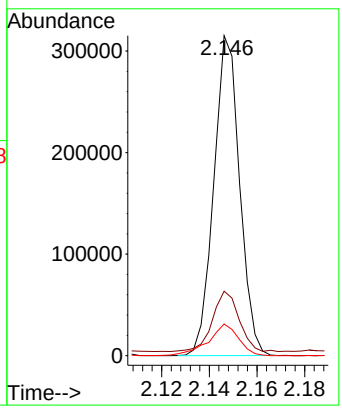


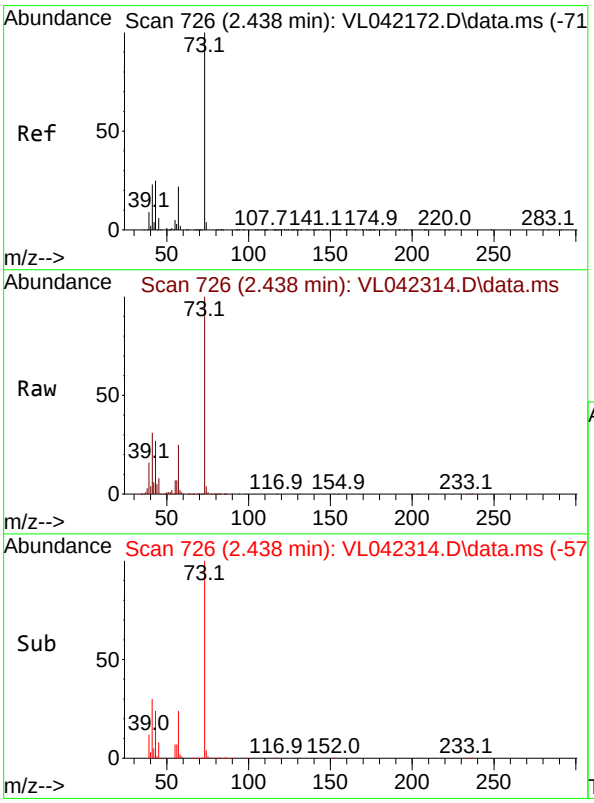

#27
Carbon Disulfide
Concen: 8.833 ppbv
RT: 2.146 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

Tgt Ion: 76 Resp: 236998

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 19.3 | 14.7 | 22.1 |
| 78 | 11.6 | 9.3 | 13.9 |

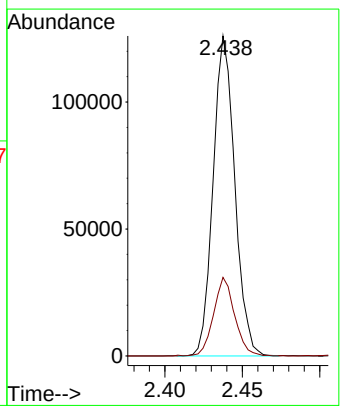


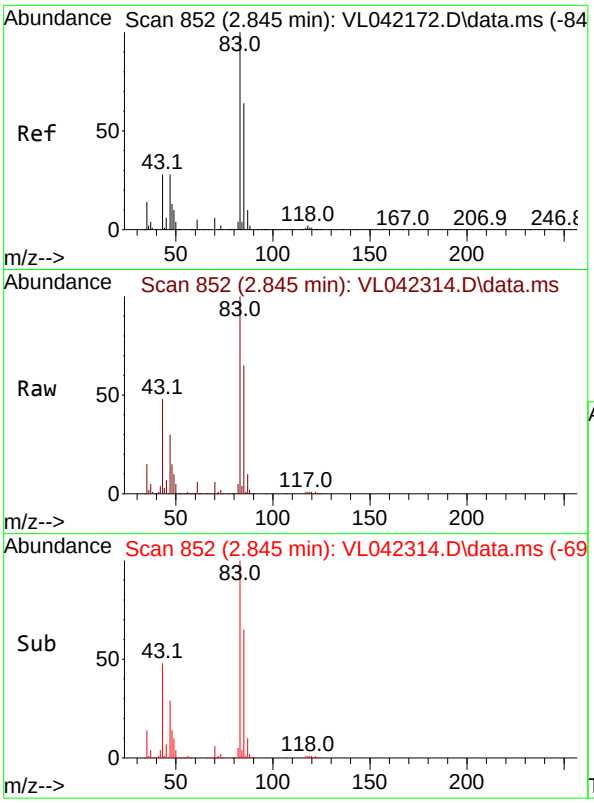




#28
Methyl tert-Butyl Ether
Concen: 7.884 ppbv
RT: 2.438 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 73 Resp: 122818

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 23.9 | 20.5 | 30.7 |



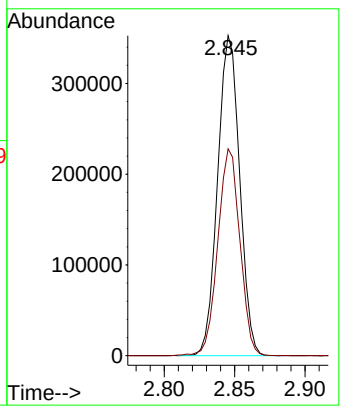


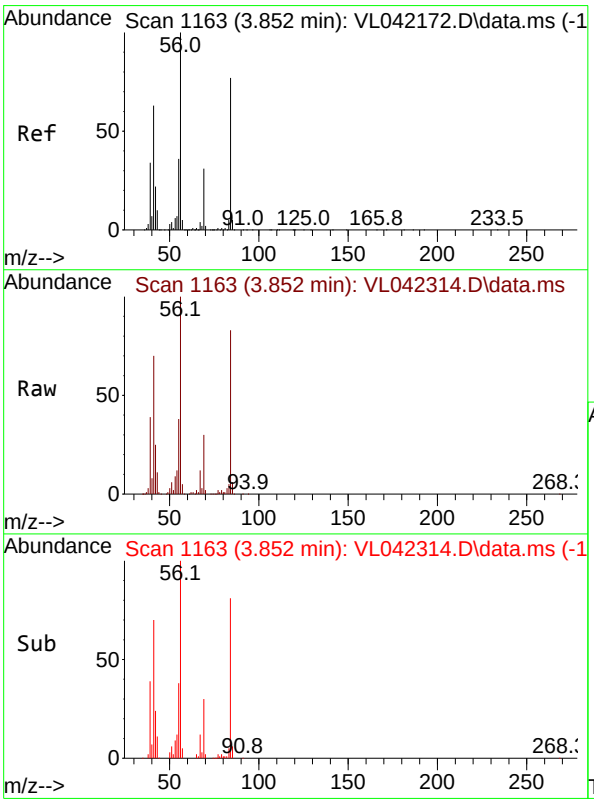

#29
Chloroform
Concen: 10.506 ppbv
RT: 2.845 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

Tgt Ion: 83 Resp: 384713

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.6 | 51.4 | 77.2 |

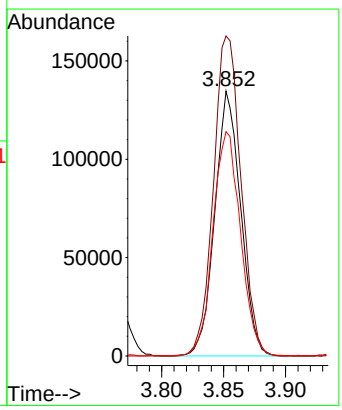


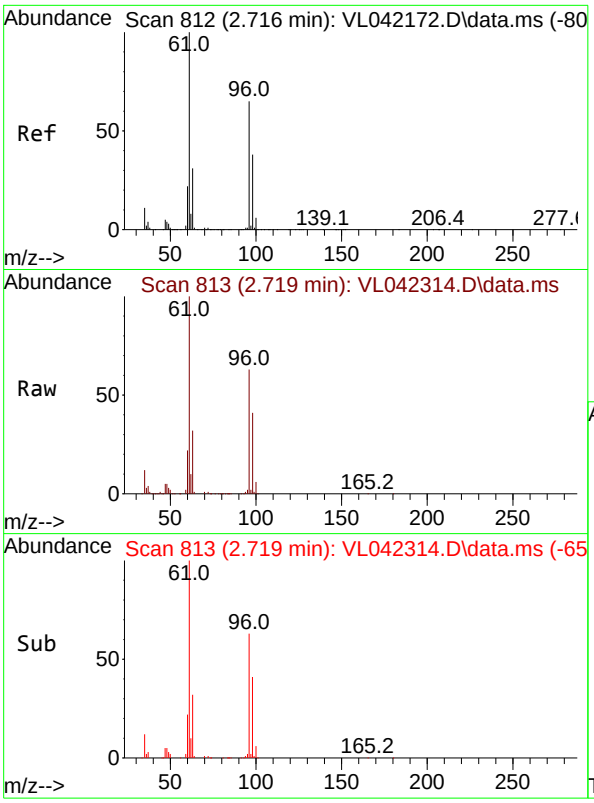




#30
Cyclohexane
Concen: 9.028 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 84 Resp: 196133

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 128.6 | 102.8 | 154.2 |
| 41 | 90.3 | 66.5 | 99.7 |



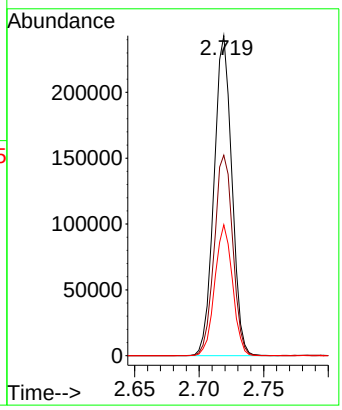


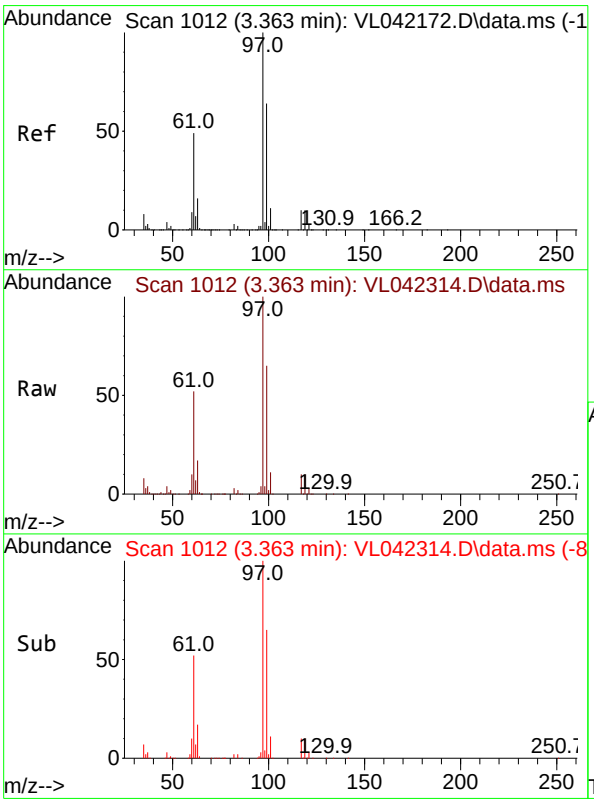

#31
cis-1,2-Dichloroethene
Concen: 9.187 ppbv
RT: 2.719 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

Tgt Ion: 61 Resp: 233371

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 62.7 | 51.8 | 77.8 |
| 98 | 40.9 | 30.6 | 46.0 |

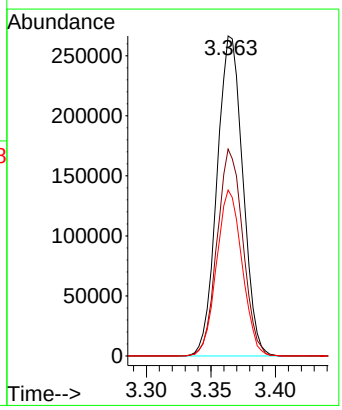


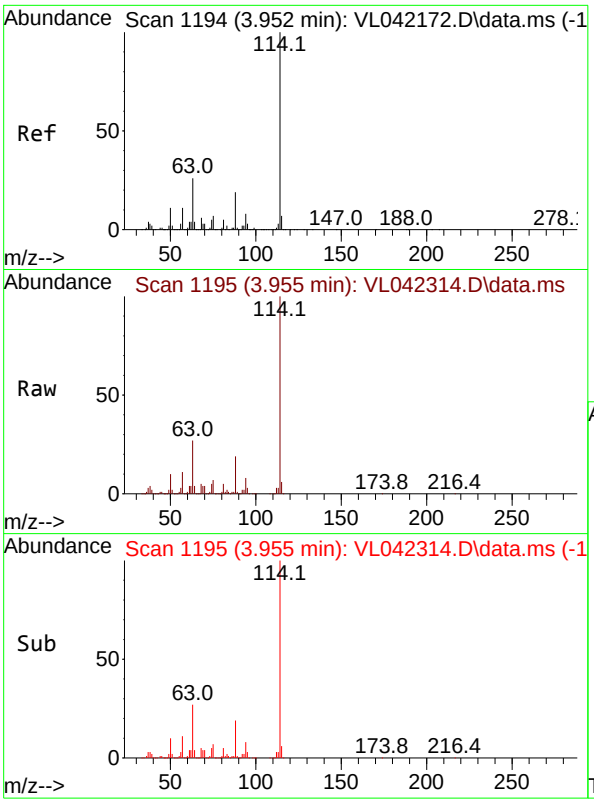




#32
1,1,1-Trichloroethane
Concen: 8.836 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 97 Resp: 370405

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.3 | 51.5 | 77.3 |
| 61 | 51.5 | 38.7 | 58.1 |



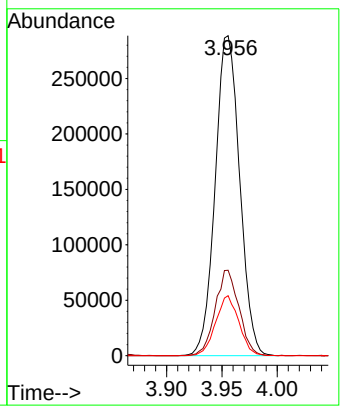


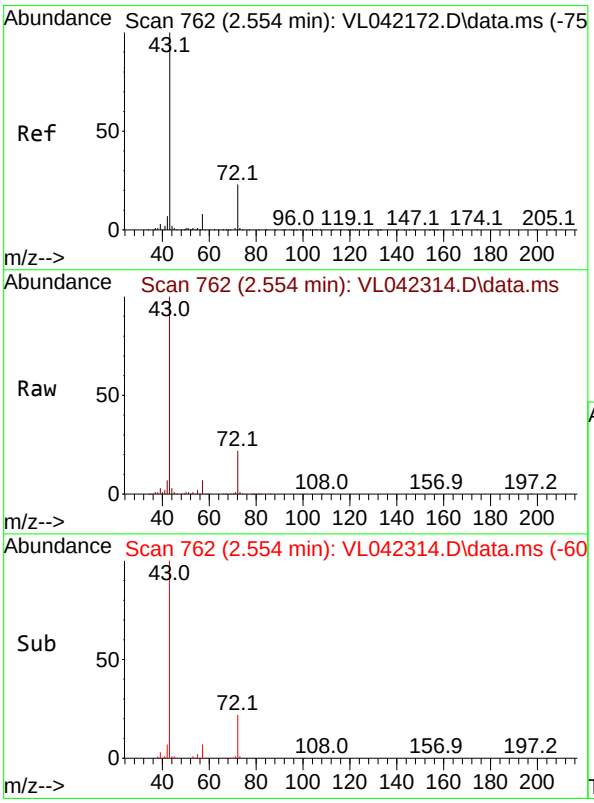

#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

Tgt Ion:114 Resp: 444353

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 26.0 | 20.7 | 31.1 |
| 88 | 17.8 | 15.0 | 22.4 |

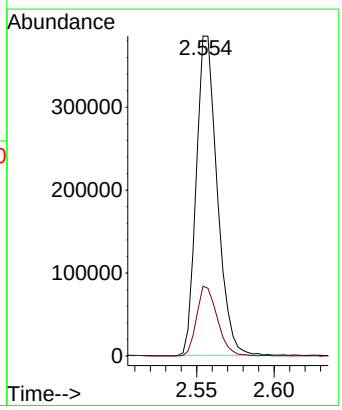


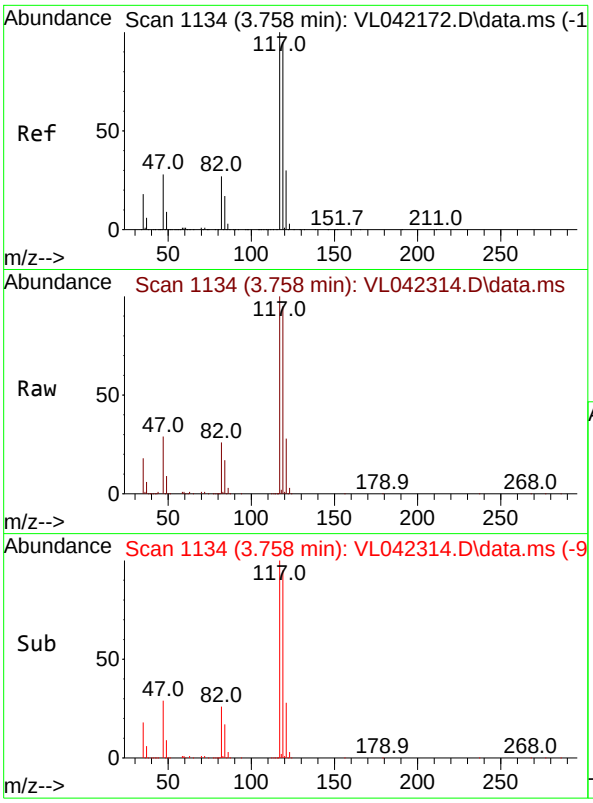




#34
2-Butanone
Concen: 11.254 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 43 Resp: 362633

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 21.8 | 18.2 | 27.2 |



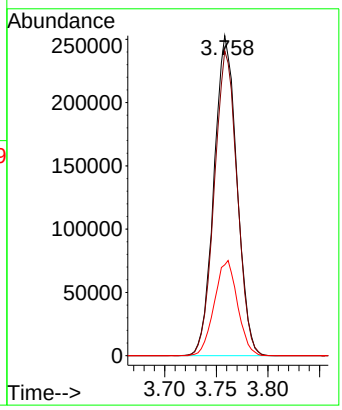


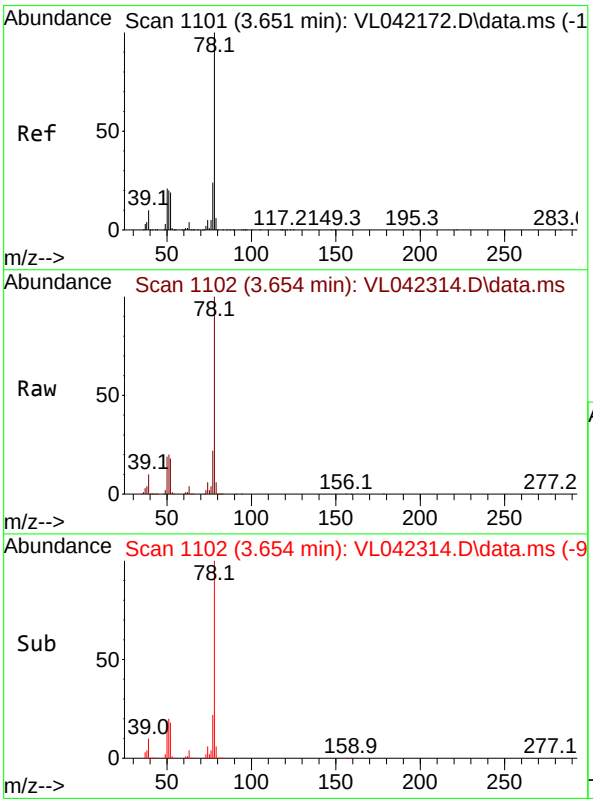

#35
Carbon Tetrachloride
Concen: 11.228 ppbv
RT: 3.758 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

Tgt Ion:117 Resp: 389738

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 95.2 | 76.2 | 114.2 |
| 121 | 28.4 | 24.2 | 36.4 |

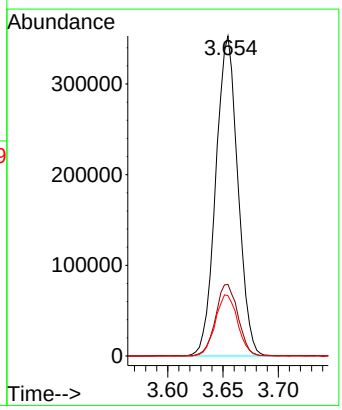


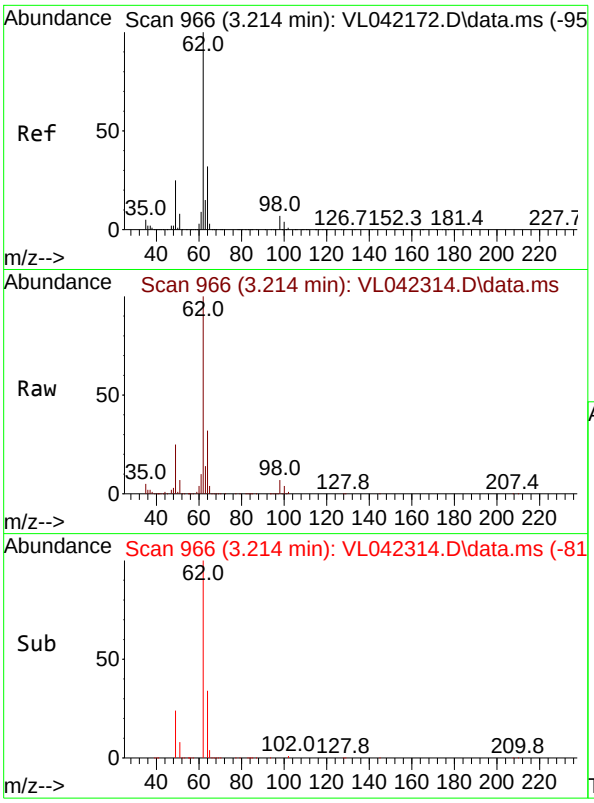




#36
Benzene
Concen: 11.131 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 78 Resp: 490339

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 22.3 | 19.1 | 28.7 |
| 50 | 18.8 | 16.6 | 24.8 |



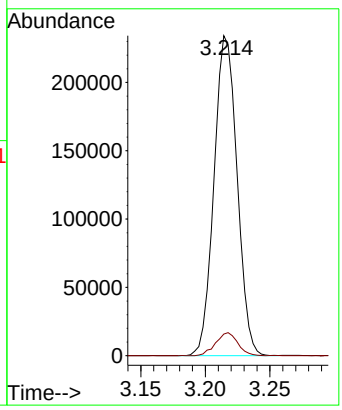


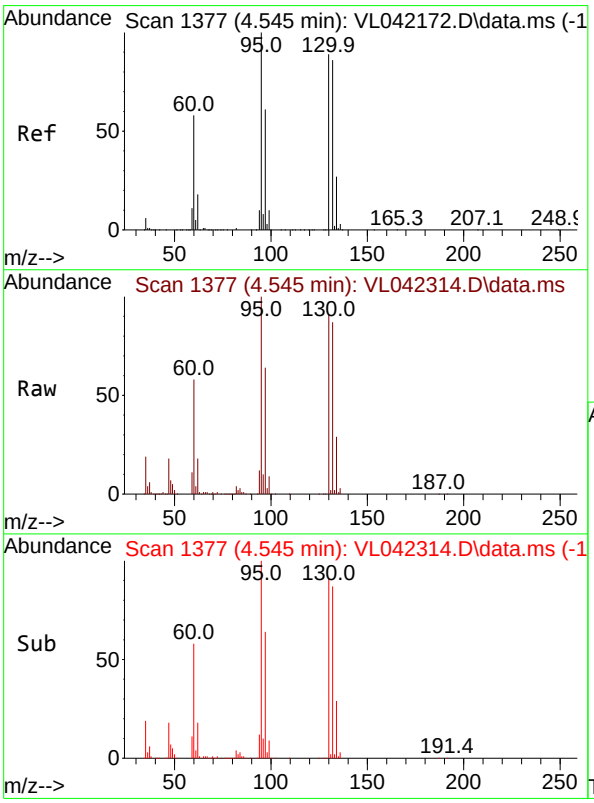

#37
1,2-Dichloroethane
Concen: 11.538 ppbv
RT: 3.214 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

Tgt Ion: 62 Resp: 290983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 6.9 | 5.4 | 8.2 |

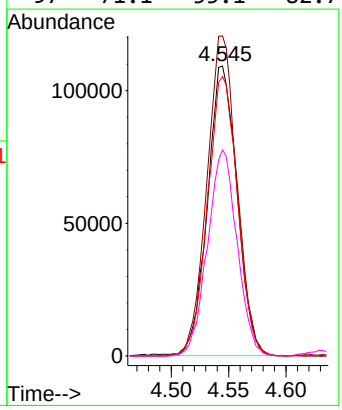


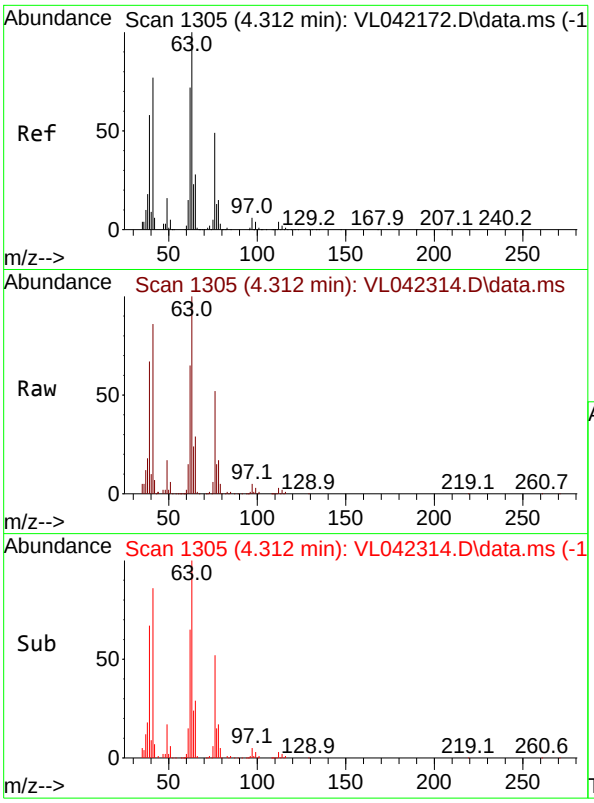




#38
Trichloroethene
Concen: 10.645 ppbv
RT: 4.545 min Scan# 1377
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion:130 Resp: 195654

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 110.4 | 89.8 | 134.8 |
| 132 | 96.5 | 77.4 | 116.2 |
| 97 | 71.1 | 55.1 | 82.7 |



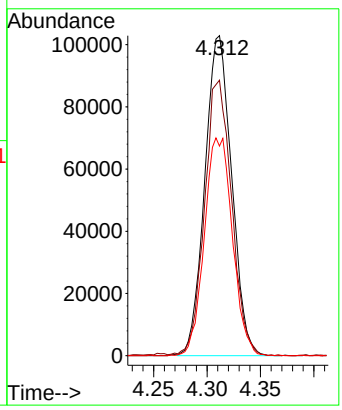


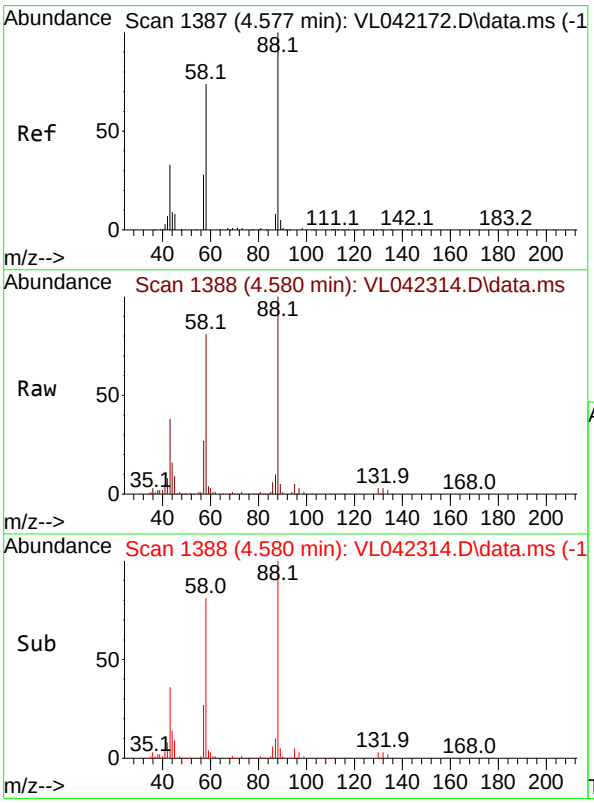

#39
1,2-Dichloropropane
Concen: 11.217 ppbv
RT: 4.312 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

Tgt Ion: 63 Resp: 179954

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 85.9 | 61.7 | 92.5 |
| 62 | 65.3 | 57.6 | 86.4 |

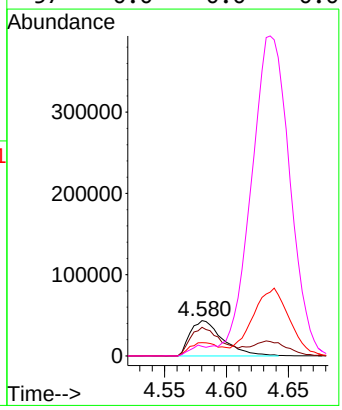


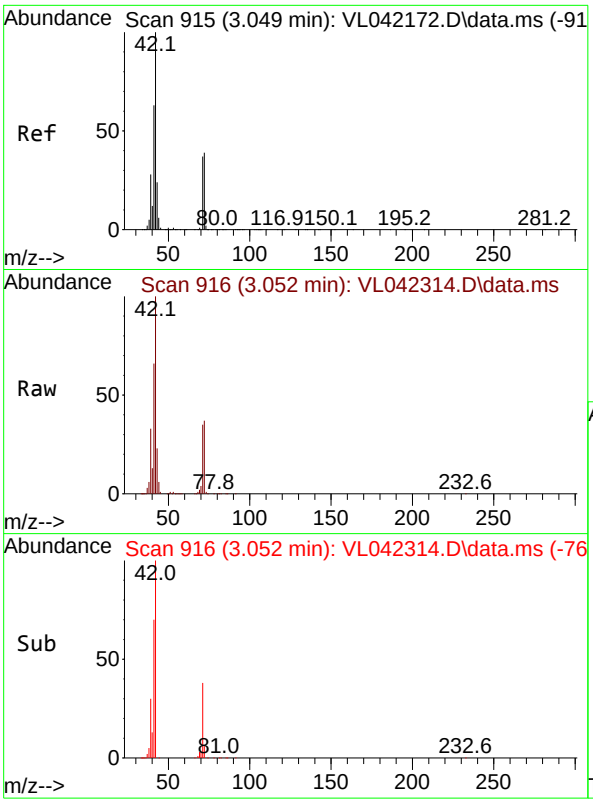




#40
1,4-Dioxane
Concen: 9.408 ppbv
RT: 4.580 min Scan# 1388
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 88 Resp: 80106

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 81.4 | 62.7 | 94.1 |
| 43 | 0.0 | 23.0 | 34.4# |
| 57 | 0.0 | 0.0 | 0.0 |



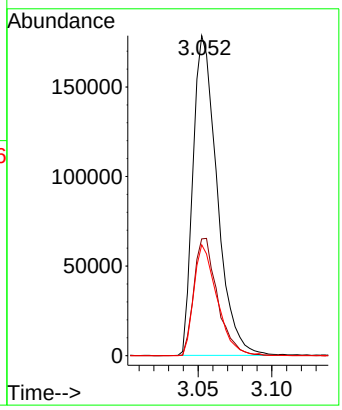


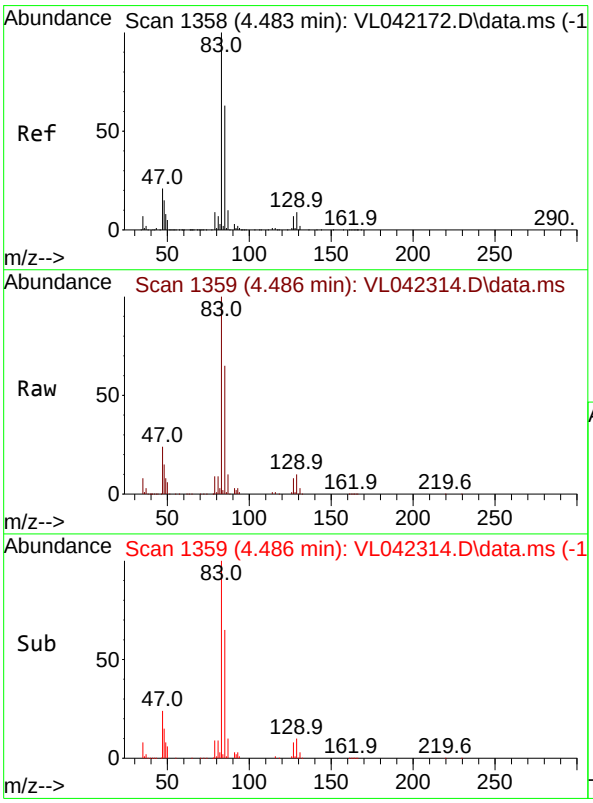

#41
Tetrahydrofuran
Concen: 10.930 ppbv
RT: 3.052 min Scan# 91
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

Tgt Ion: 42 Resp: 202793

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 36.0 | 31.4 | 47.0 |
| 71 | 33.5 | 30.2 | 45.4 |

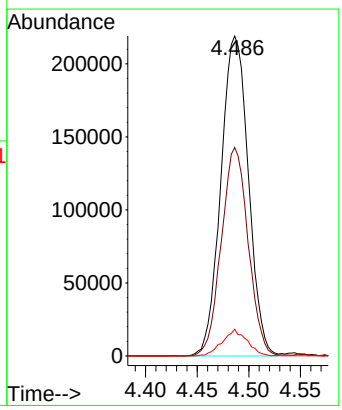


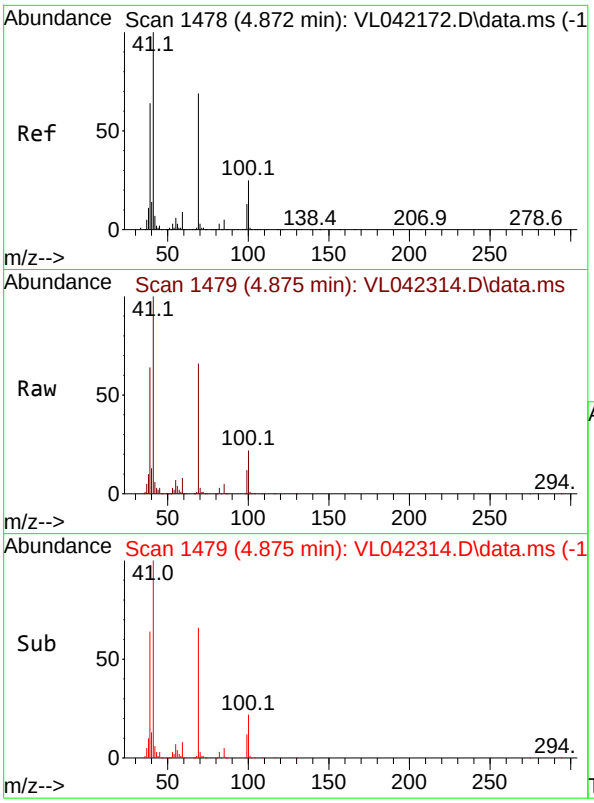




#42
Bromodichloromethane
Concen: 11.669 ppbv
RT: 4.486 min Scan# 1359
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 83 Resp: 405729

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.2 | 50.5 | 75.7 |
| 127 | 8.4 | 5.9 | 8.9 |



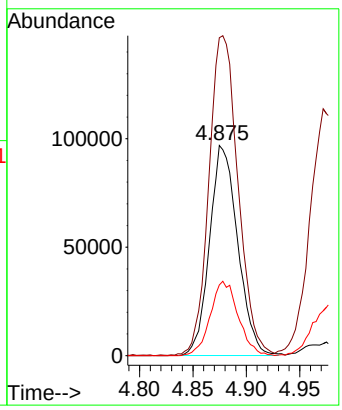


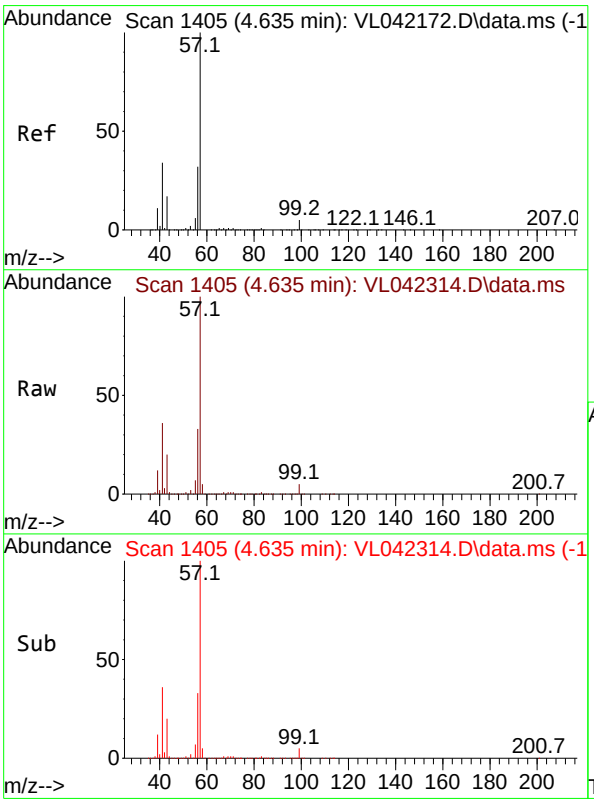

#43
Methyl Methacrylate
Concen: 9.514 ppbv
RT: 4.875 min Scan# 14
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

Tgt Ion: 69 Resp: 177423

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 158.3 | 123.8 | 185.6 |
| 100 | 35.3 | 28.4 | 42.6 |

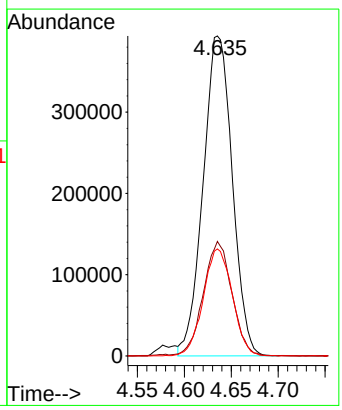


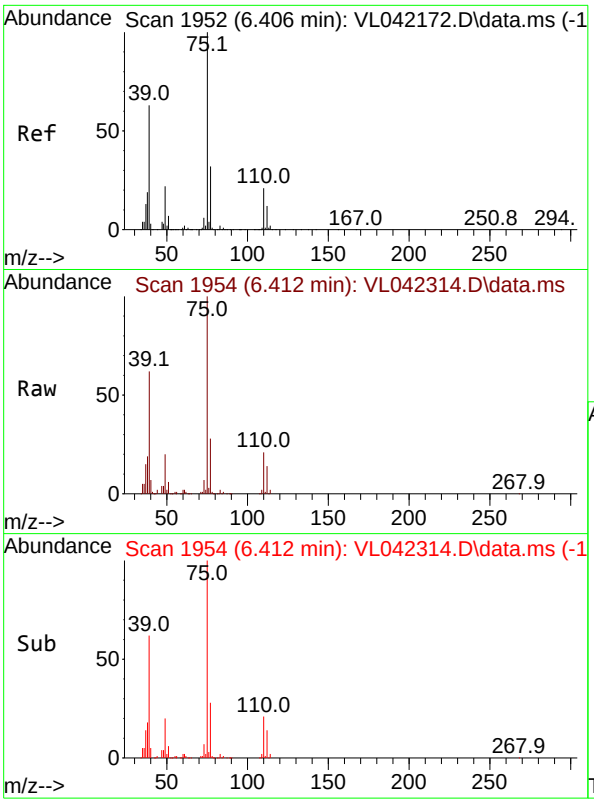




#44
2,2,4-Trimethylpentane
Concen: 11.431 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 57 Resp: 850971

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 35.3 | 26.8 | 40.2 |
| 56 | 33.4 | 25.6 | 38.4 |



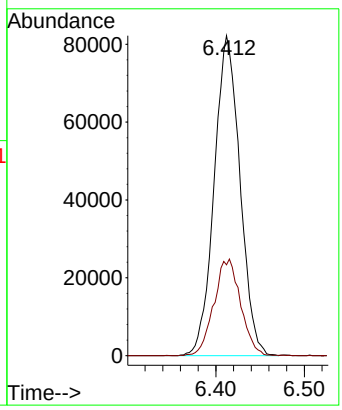


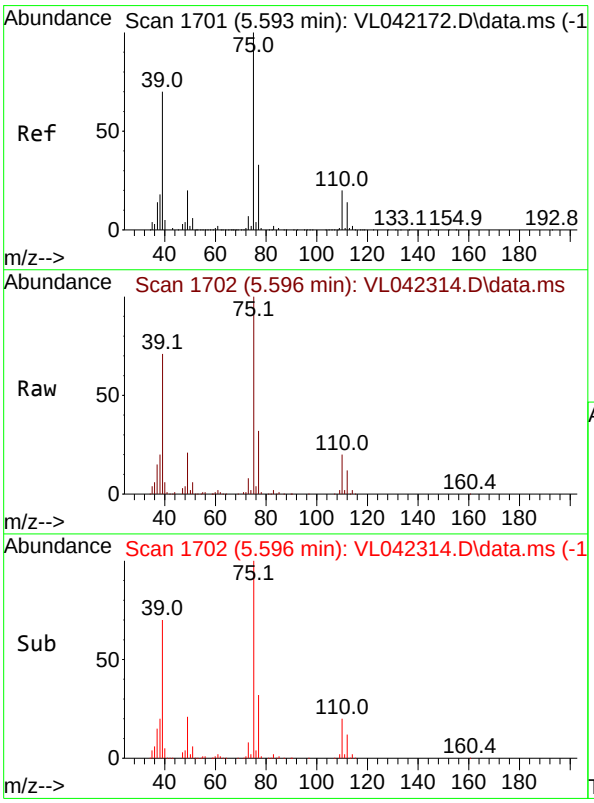

#45
t-1,3-Dichloropropene
Concen: 8.309 ppbv
RT: 6.412 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

Tgt Ion: 75 Resp: 166246

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 28.4 | 26.0 | 39.0 |

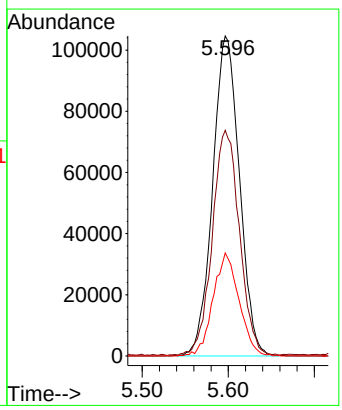


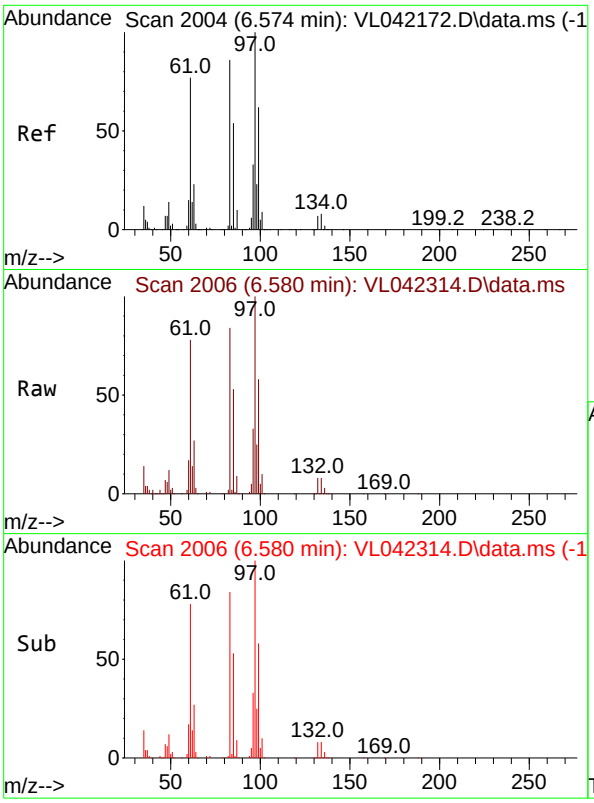




#46
cis-1,3-Dichloropropene
Concen: 9.213 ppbv
RT: 5.596 min Scan# 1702
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 75 Resp: 225952

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 39 | 70.2 | 55.8 | 83.6 |
| 77 | 32.1 | 26.0 | 39.0 |



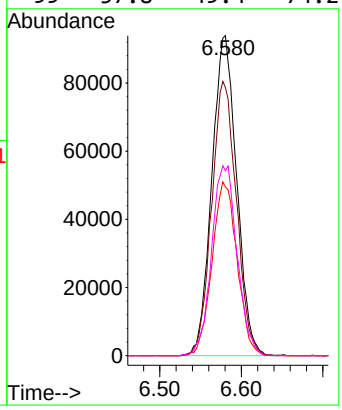


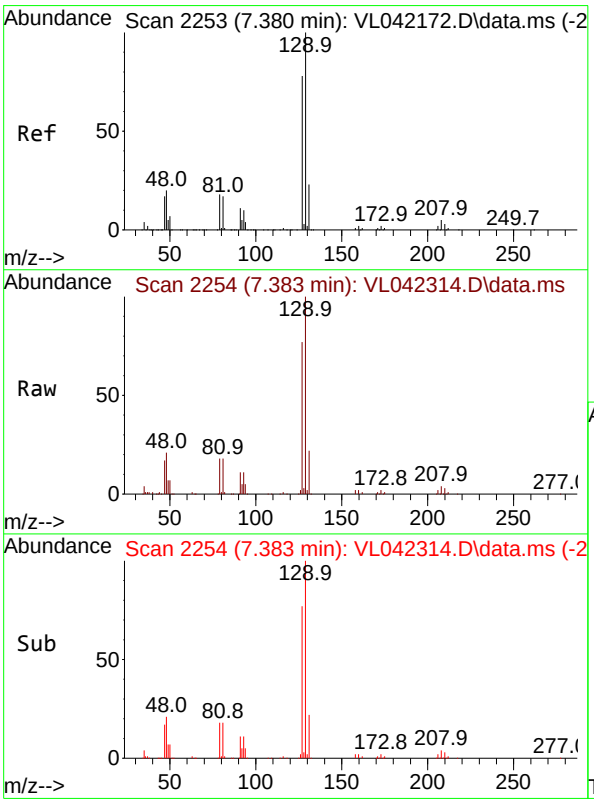

#47
1,1,2-Trichloroethane
Concen: 11.720 ppbv
RT: 6.580 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

Tgt Ion: 97 Resp: 198762

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 83.8 | 69.2 | 103.8 |
| 85 | 52.7 | 43.1 | 64.7 |
| 99 | 57.8 | 49.4 | 74.2 |

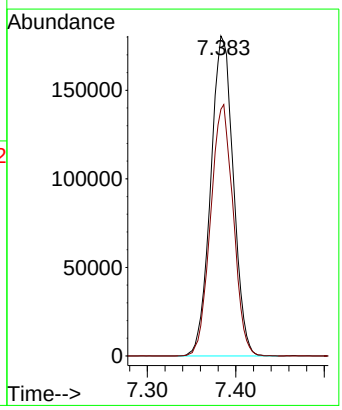


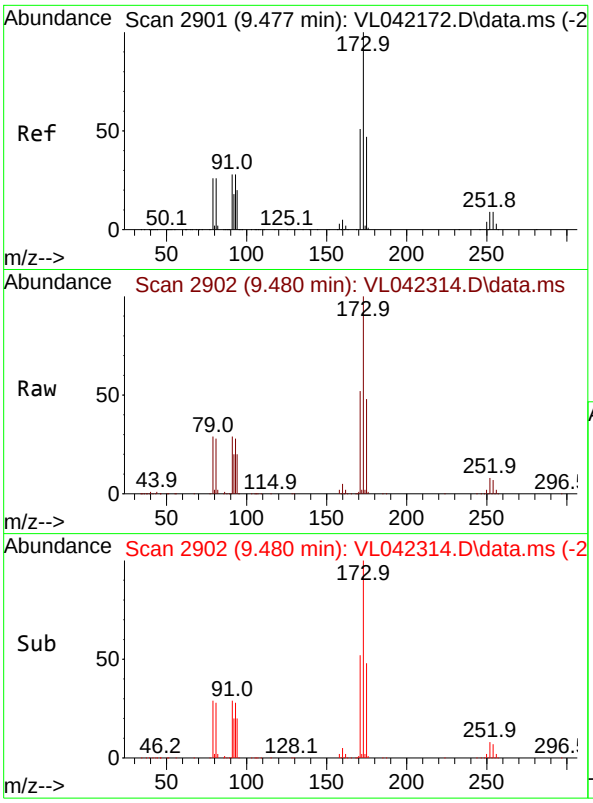




#48
Dibromochloromethane
Concen: 11.181 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion:129 Resp: 321370

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.4 | 39.1 | 117.2 |



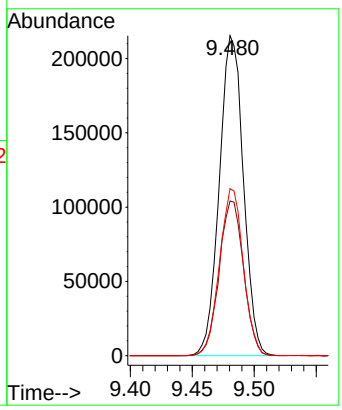


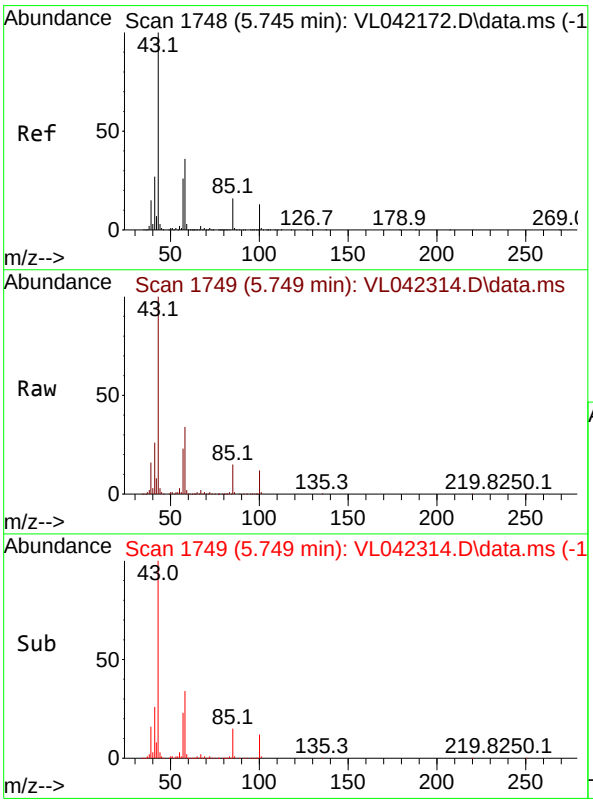

#49
Bromoform
Concen: 11.313 ppbv
RT: 9.480 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

Tgt Ion:173 Resp: 291905

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.1 | 38.6 | 57.8 |
| 171 | 51.7 | 41.8 | 62.6 |

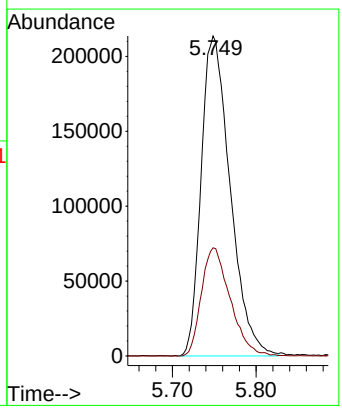


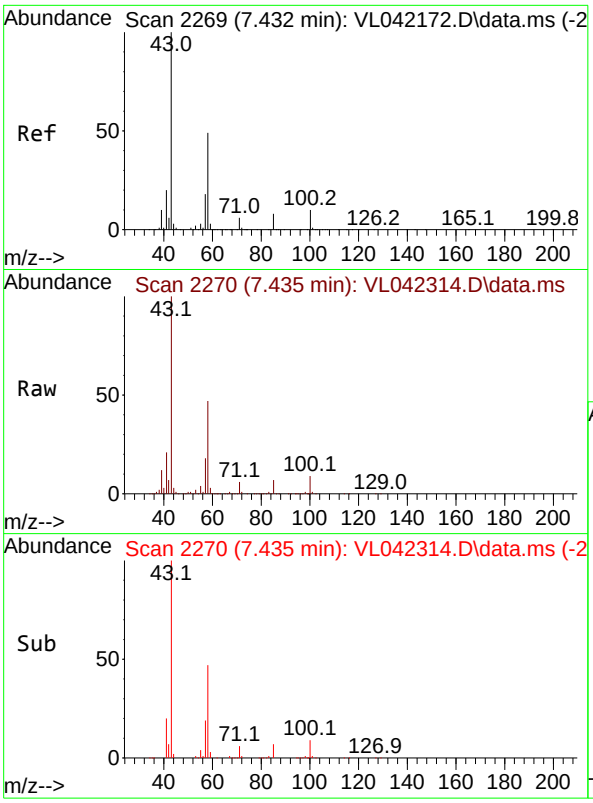




#50
4-Methyl-2-Pentanone
Concen: 10.084 ppbv
RT: 5.749 min Scan# 1749
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 43 Resp: 514910

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 33.6 | 29.0 | 43.6 |



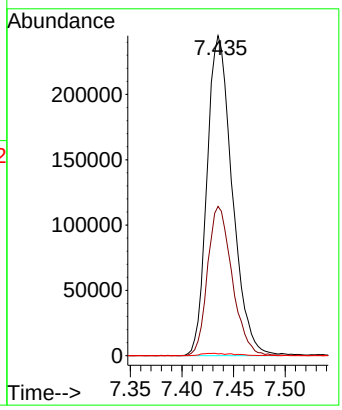


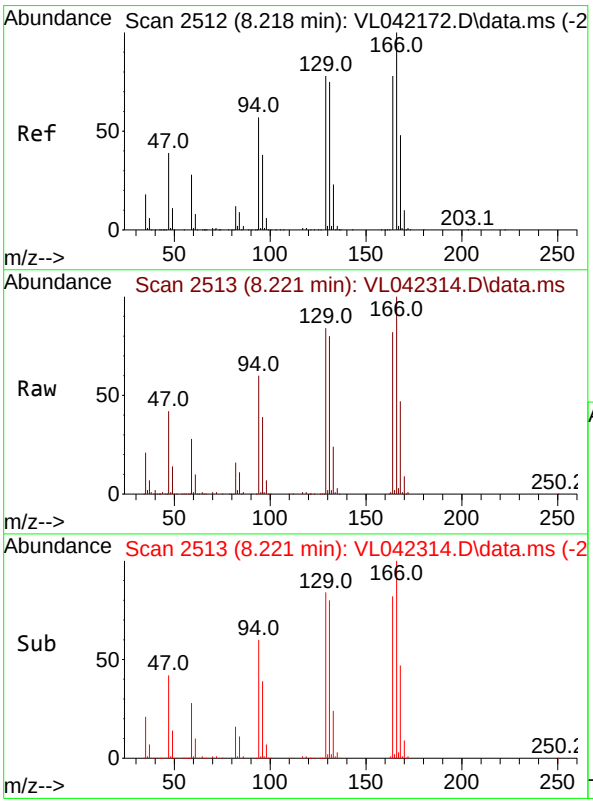

#51
2-Hexanone
Concen: 9.889 ppbv
RT: 7.435 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

Tgt Ion: 43 Resp: 414681

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 45.6 | 39.7 | 59.5 |
| 98 | 1.0 | 0.1 | 0.1# |

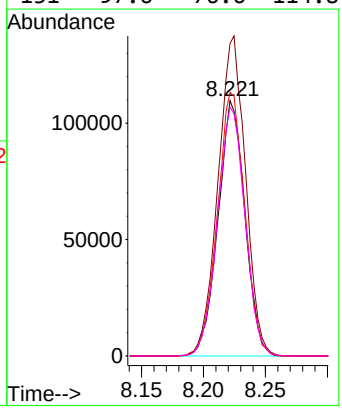


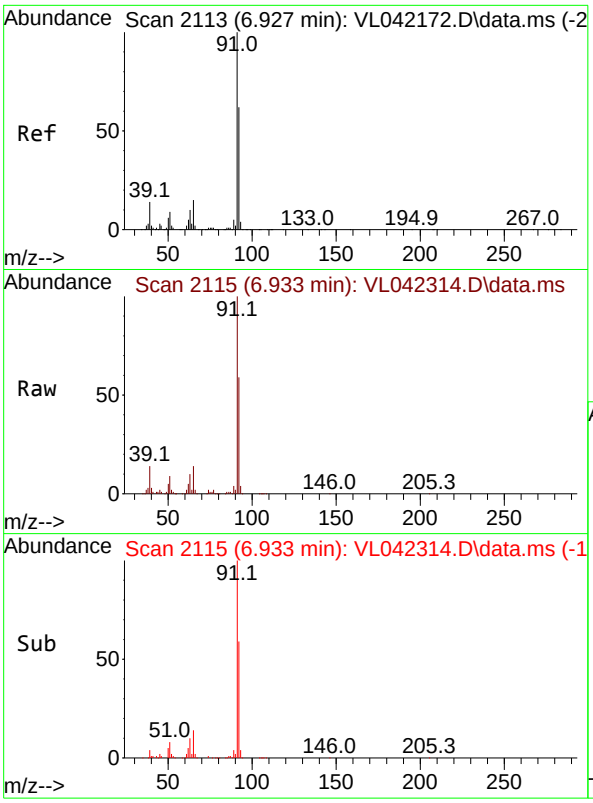




#52
Tetrachloroethene
Concen: 9.483 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion:164 Resp: 165666

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 122.5 | 102.5 | 153.7 |
| 129 | 103.2 | 79.8 | 119.8 |
| 131 | 97.6 | 76.6 | 114.8 |



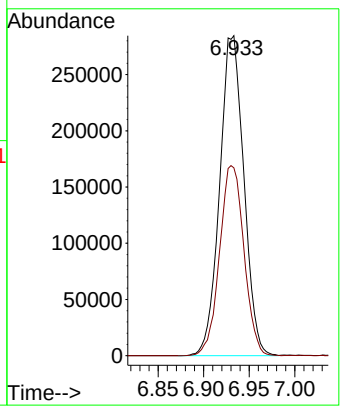


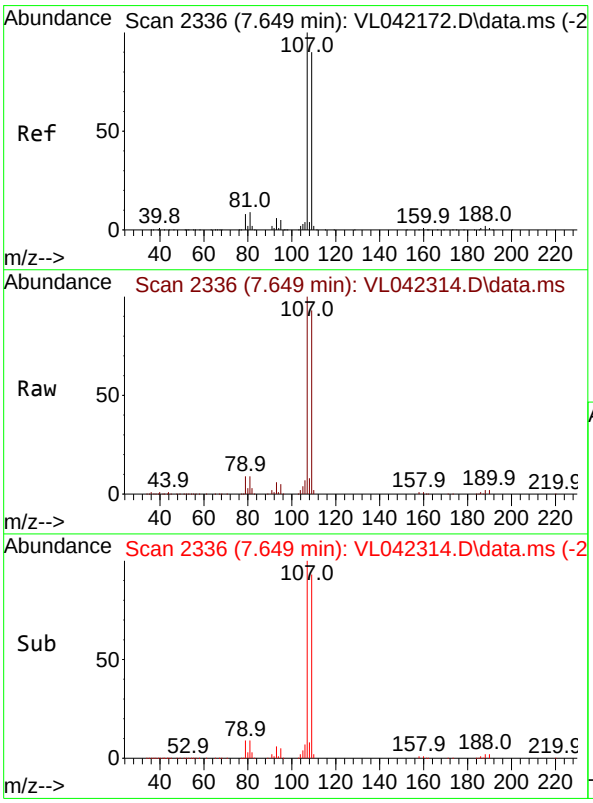

#53
Toluene
Concen: 10.079 ppbv
RT: 6.933 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

Tgt Ion: 91 Resp: 526341

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 59.9 | 48.4 | 72.6 |

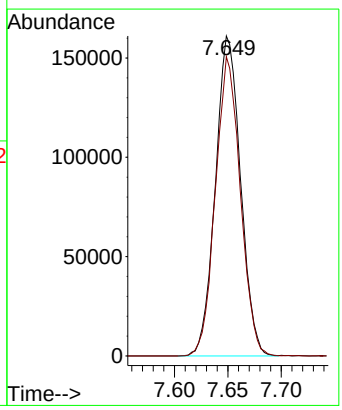


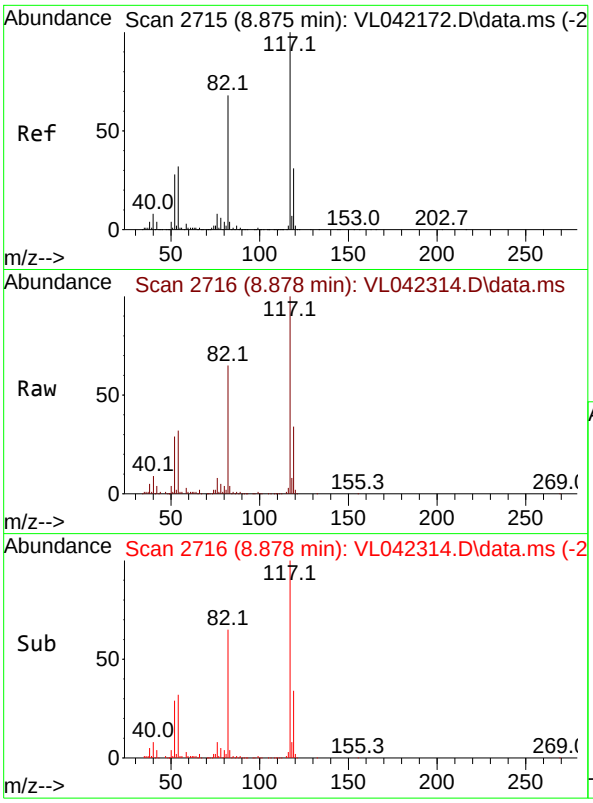




#54
1,2-Dibromoethane
Concen: 11.172 ppbv
RT: 7.649 min Scan# 2336
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion:107 Resp: 264126

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 93.5 | 72.2 | 108.4 |



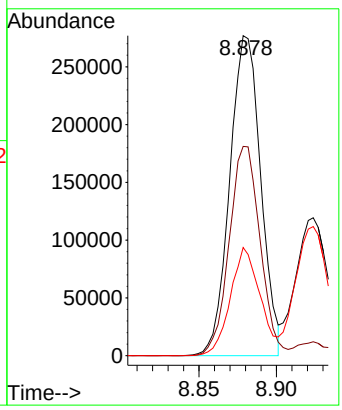


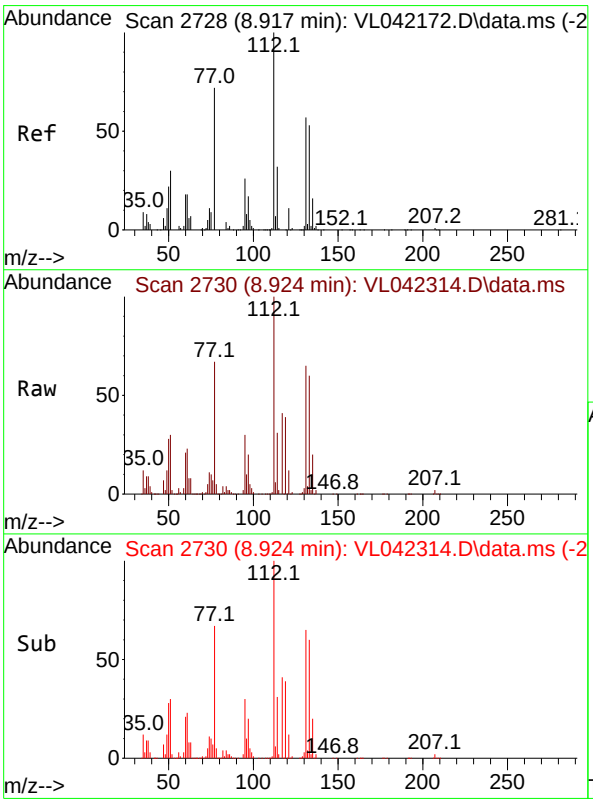

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

Tgt Ion:117 Resp: 386060

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 69.5 | 55.8 | 83.6 |
| 119 | 31.8 | 25.5 | 38.3 |

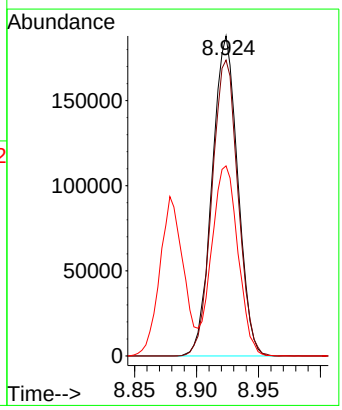


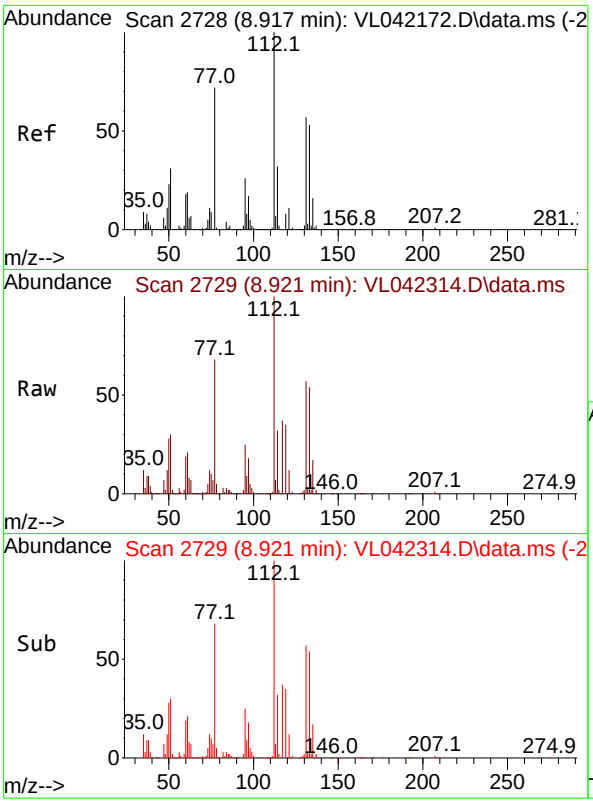




#56
1,1,1,2-Tetrachloroethane
Concen: 12.755 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. 0.006 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion:131 Resp: 271061

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 93.8 | 76.6 | 114.8 |
| 119 | 59.2 | 49.8 | 74.6 |



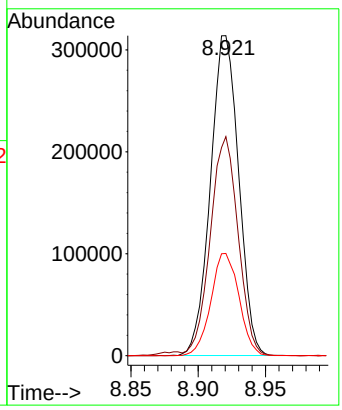


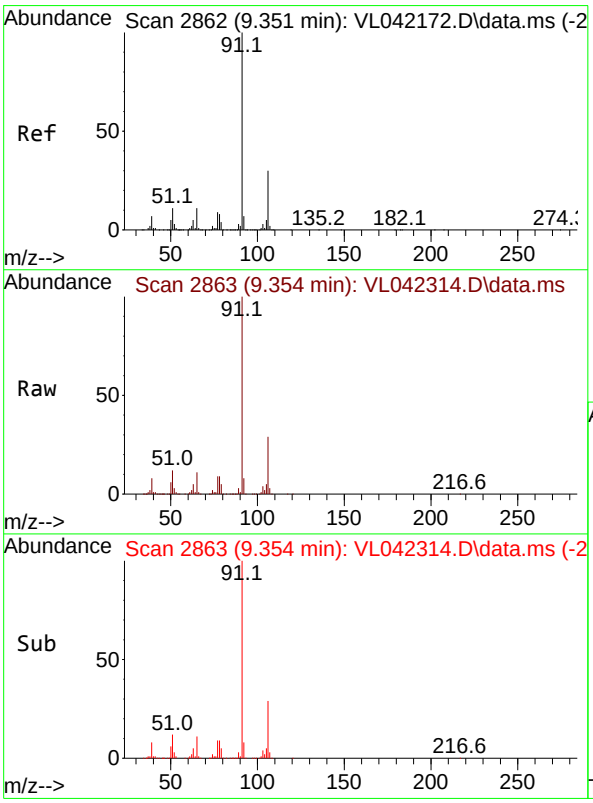

#57
Chlorobenzene
Concen: 12.486 ppbv
RT: 8.921 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

Tgt Ion:112 Resp: 457204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 68.4 | 58.2 | 87.2 |
| 114 | 31.9 | 29.1 | 35.5 |

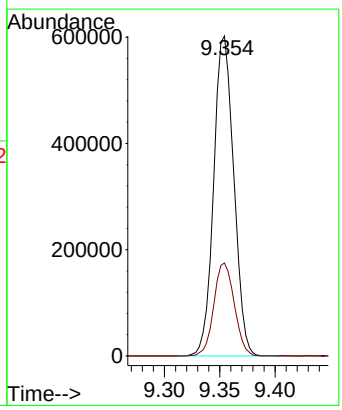


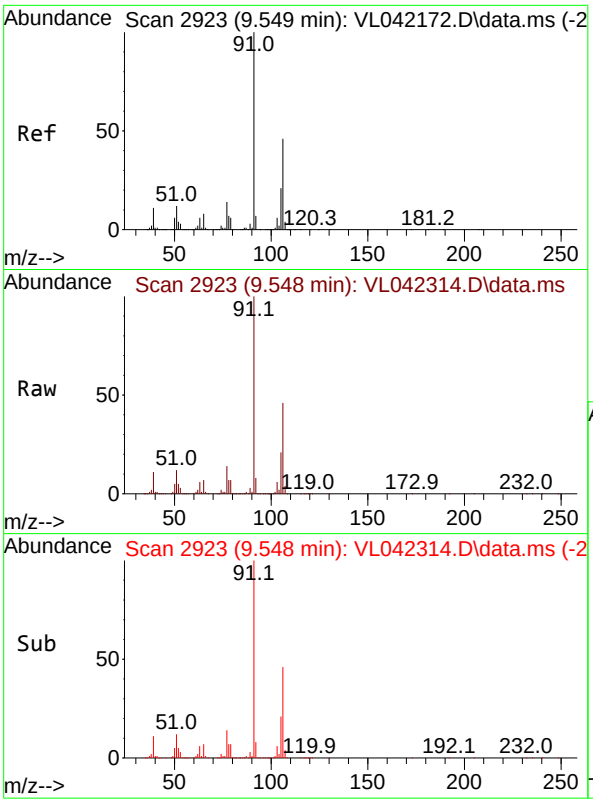




#58
Ethyl Benzene
Concen: 11.105 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 91 Resp: 761549

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.1 | 24.2 | 36.2 |



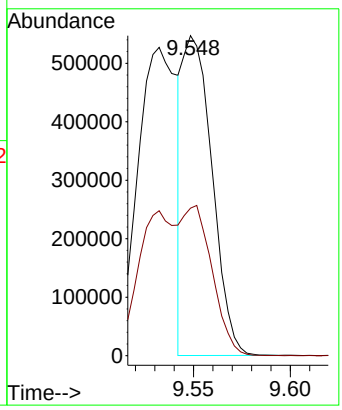


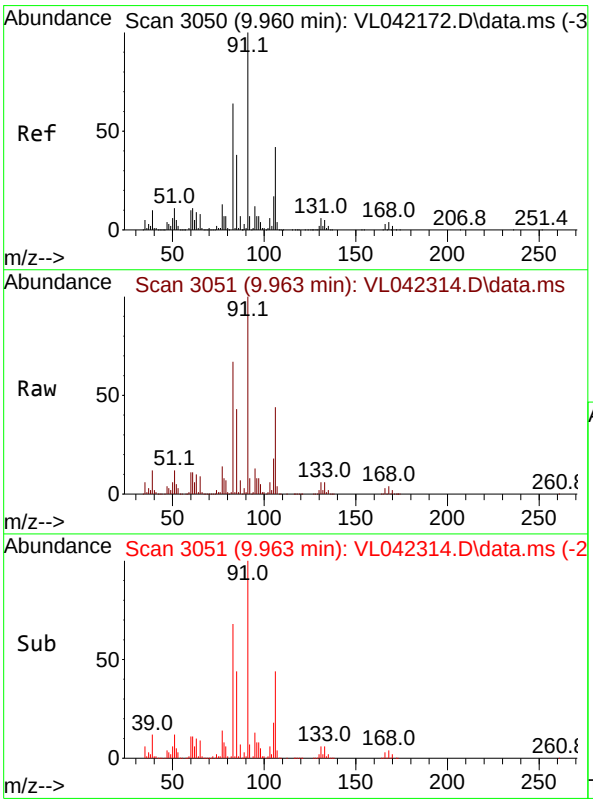

#59
m/p-Xylene
Concen: 10.514 ppbv
RT: 9.548 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

Tgt Ion: 91 Resp: 575744

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 107.0 | 36.4 | 54.6# |

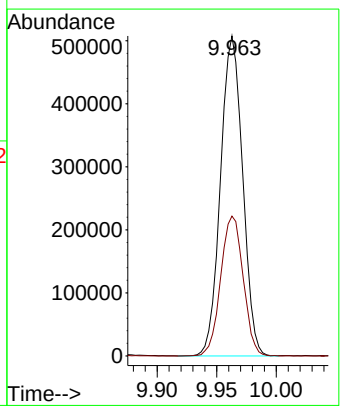


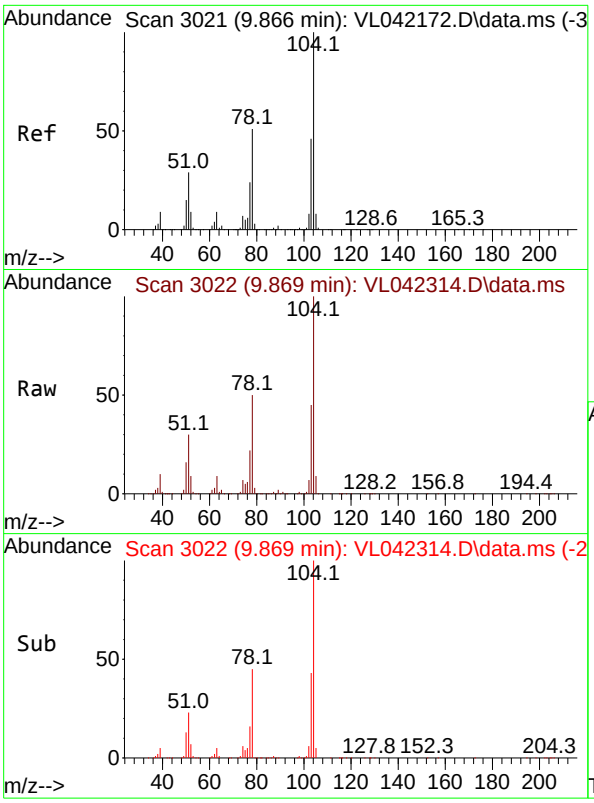




#60
o-Xylene
Concen: 11.929 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 91 Resp: 654791

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 44.4 | 20.8 | 62.5 |



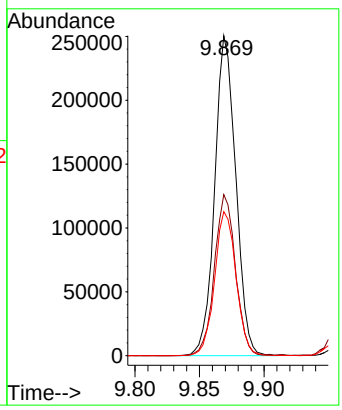


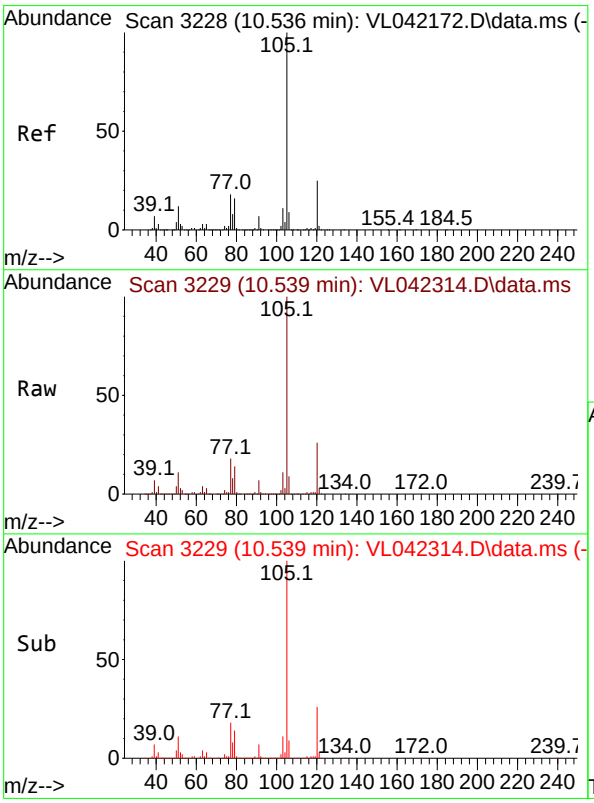

#61
Styrene
Concen: 10.470 ppbv
RT: 9.869 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

Tgt Ion:104 Resp: 284318

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 50.5 | 41.8 | 62.6 |
| 103 | 45.9 | 37.0 | 55.4 |

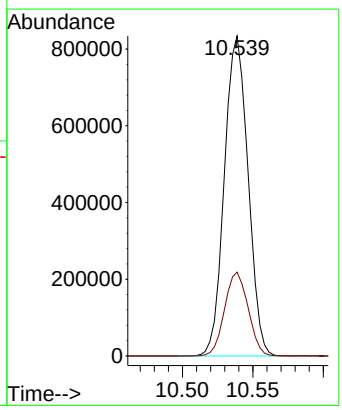


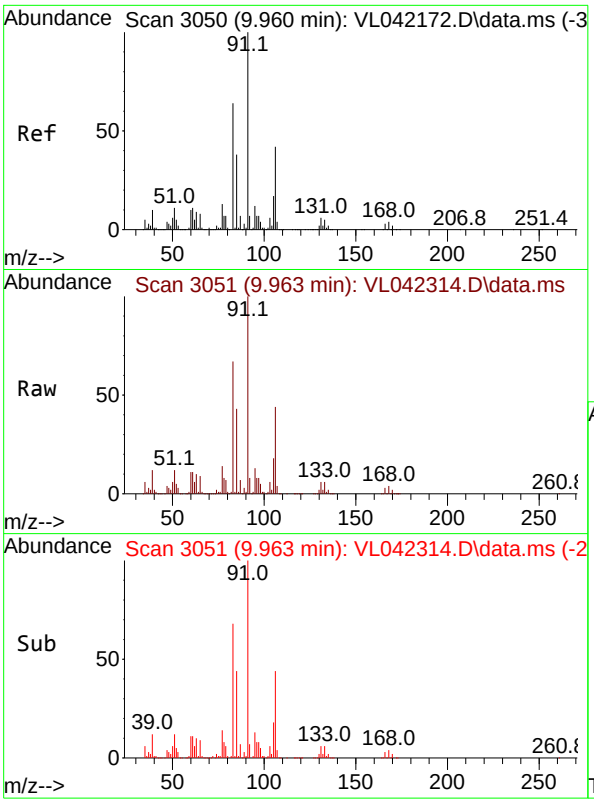




#62
Isopropylbenzene
Concen: 11.887 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion:105 Resp: 975799

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.1 | 19.9 | 29.9 |



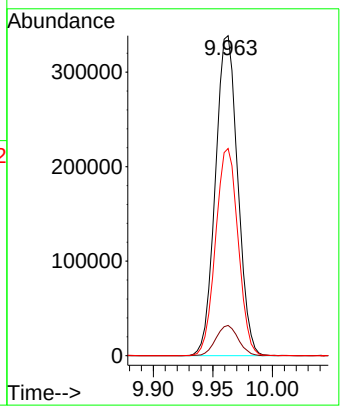


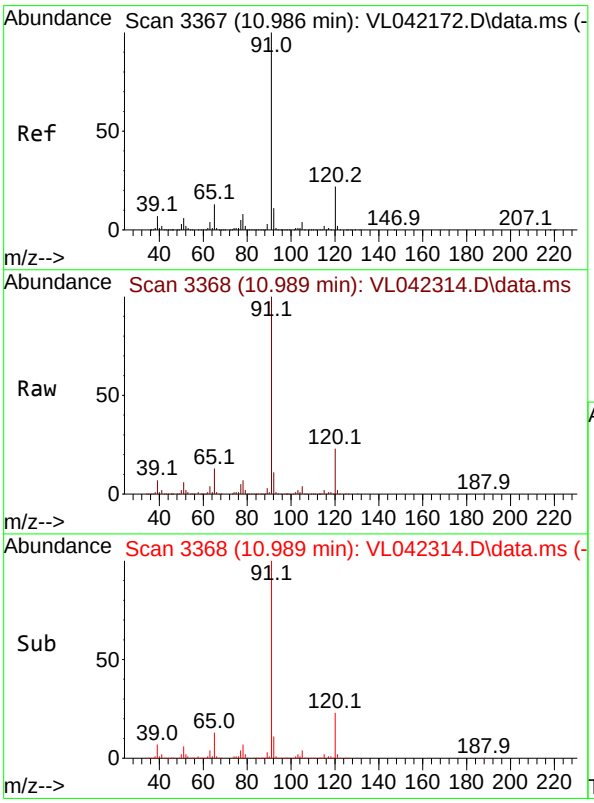

#63
1,1,2,2-Tetrachloroethane
Concen: 13.222 ppbv
RT: 9.963 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

Tgt Ion: 83 Resp: 440972

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.5 | 4.8 | 14.4 |
| 85 | 65.3 | 32.5 | 97.5 |

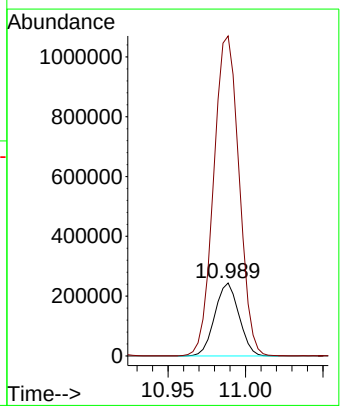


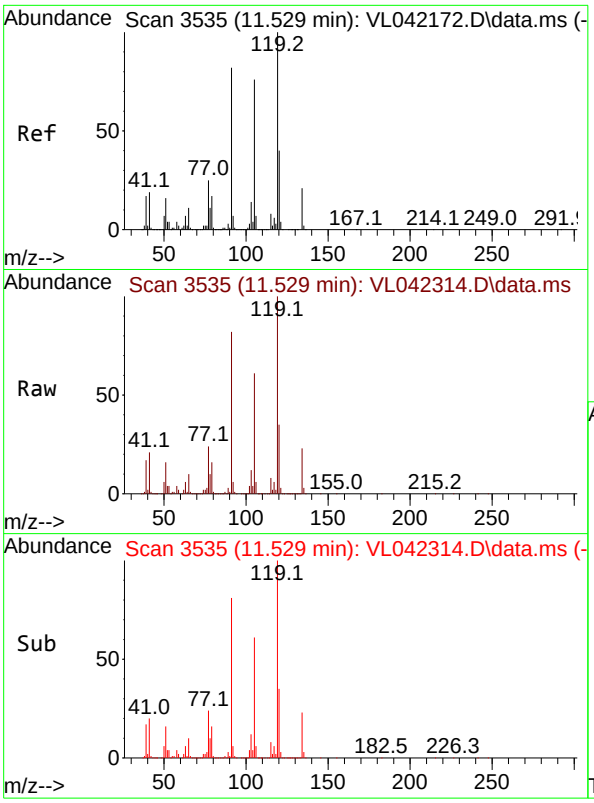




#64
n-propylbenzene
Concen: 12.518 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion:120 Resp: 264518

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 461.4 | 376.9 | 565.3 |



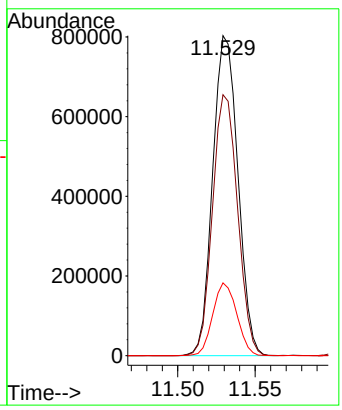


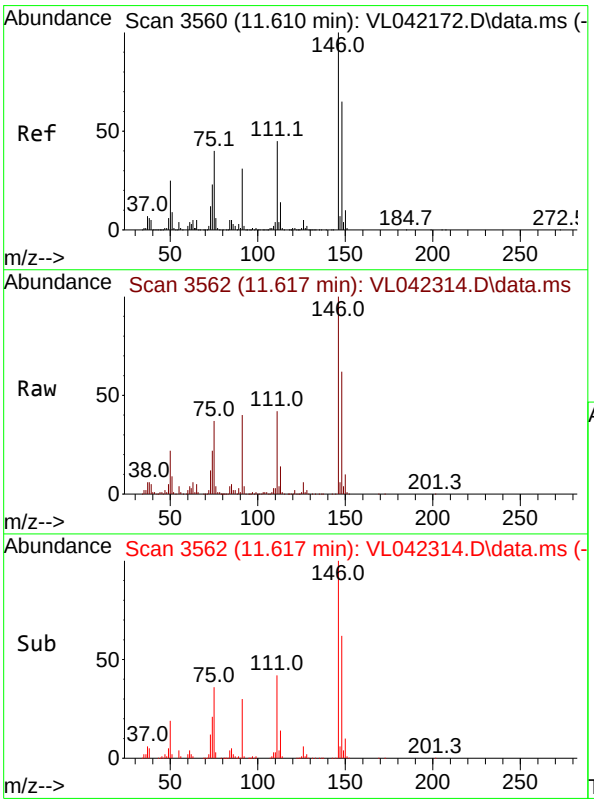

#65
tert-Butylbenzene
Concen: 11.973 ppbv
RT: 11.529 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

Tgt Ion:119 Resp: 908946

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 81.4 | 66.0 | 99.0 |
| 134 | 21.7 | 16.7 | 25.1 |

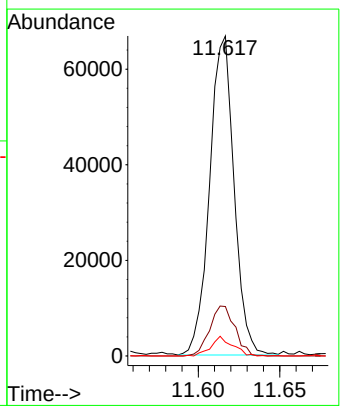


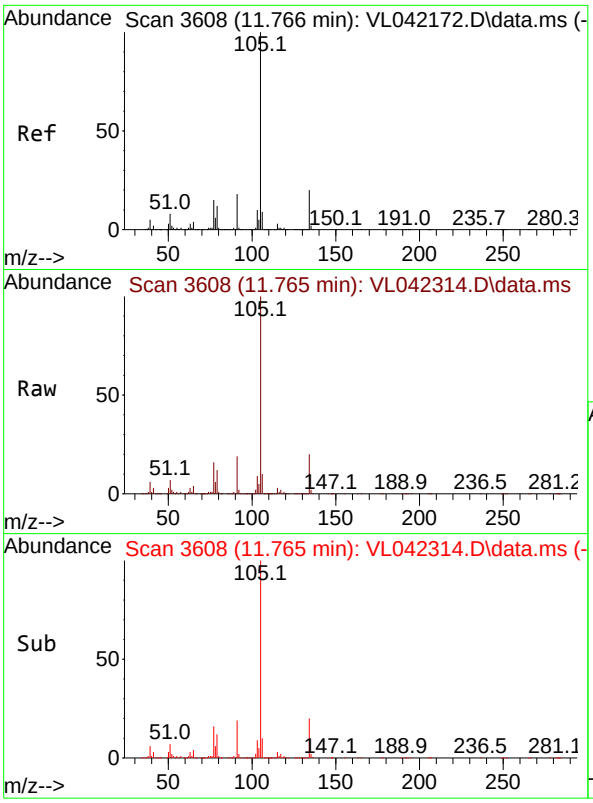




#66
Benzyl Chloride
Concen: 8.634 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.006 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 91 Resp: 69548

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 16.1 | 13.8 | 20.6 |
| 128 | 5.5 | 4.5 | 6.7 |



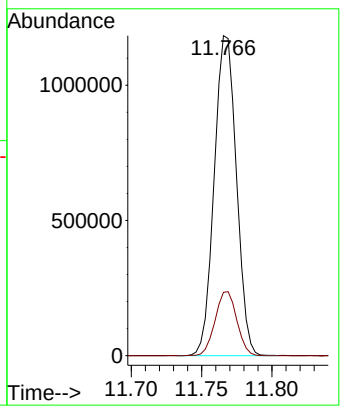


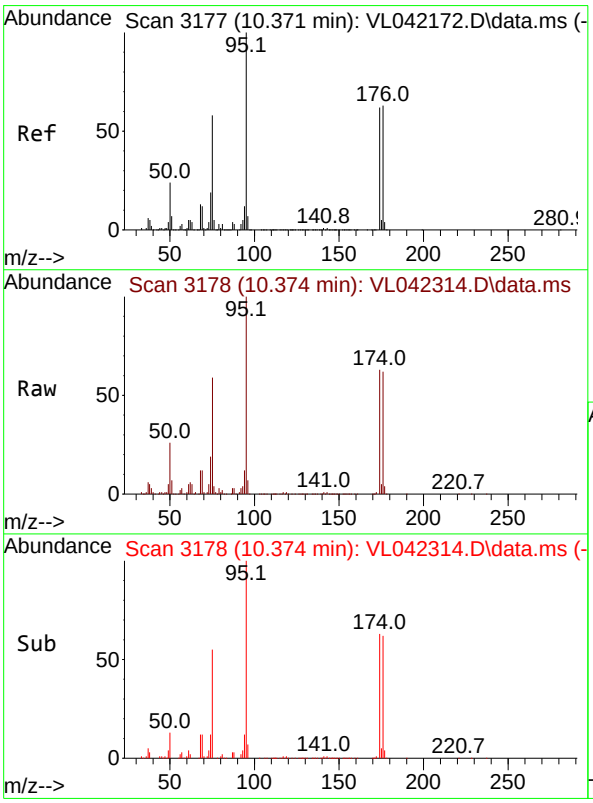

#67
sec-Butylbenzene
Concen: 12.320 ppbv
RT: 11.765 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

Tgt Ion:105 Resp: 1300090

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.6 | 15.5 | 23.3 |

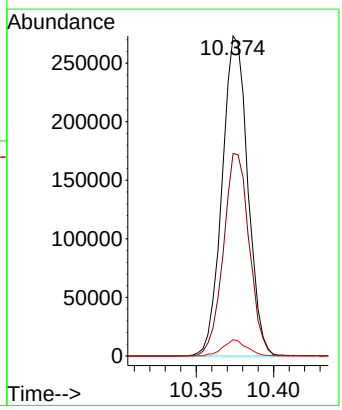


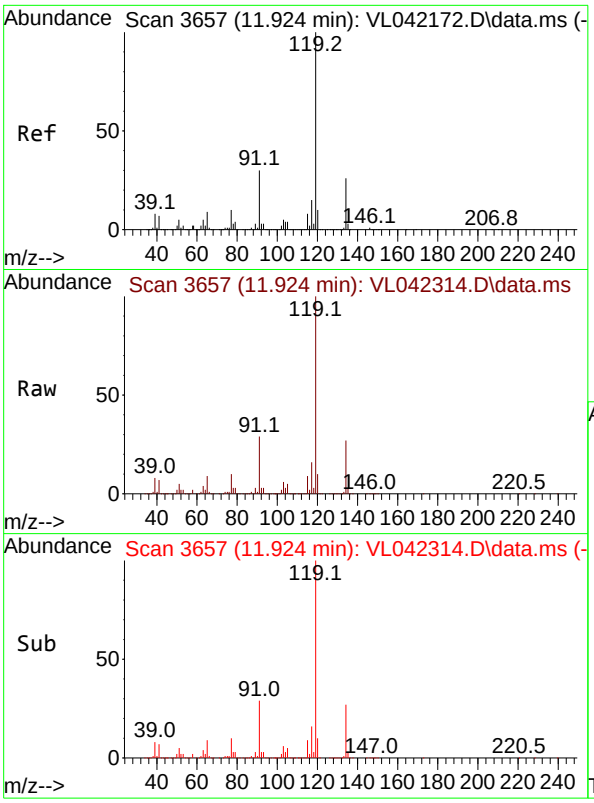




#68
1-Bromo-4-Fluorobenzene
Concen: 9.910 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 95 Resp: 314180

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 64.2 | 50.6 | 76.0 |
| 175 | 4.7 | 3.8 | 5.6 |



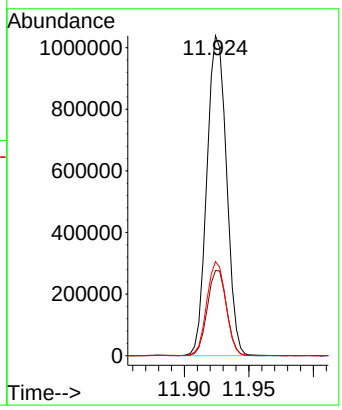


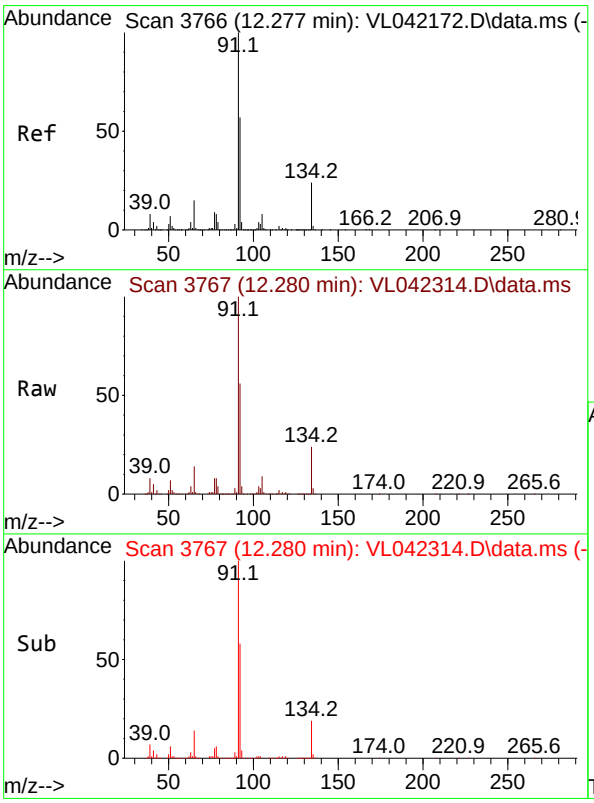

#69
p-Isopropyltoluene
Concen: 12.051 ppbv
RT: 11.924 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

Tgt Ion:119 Resp: 1095041

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.3 | 20.4 | 30.6 |
| 91 | 28.5 | 23.7 | 35.5 |

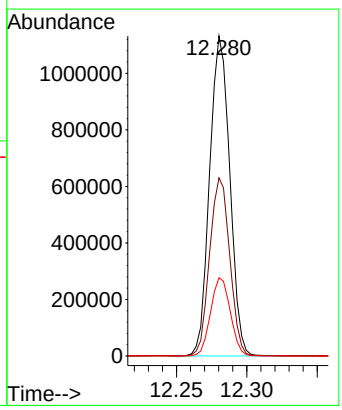


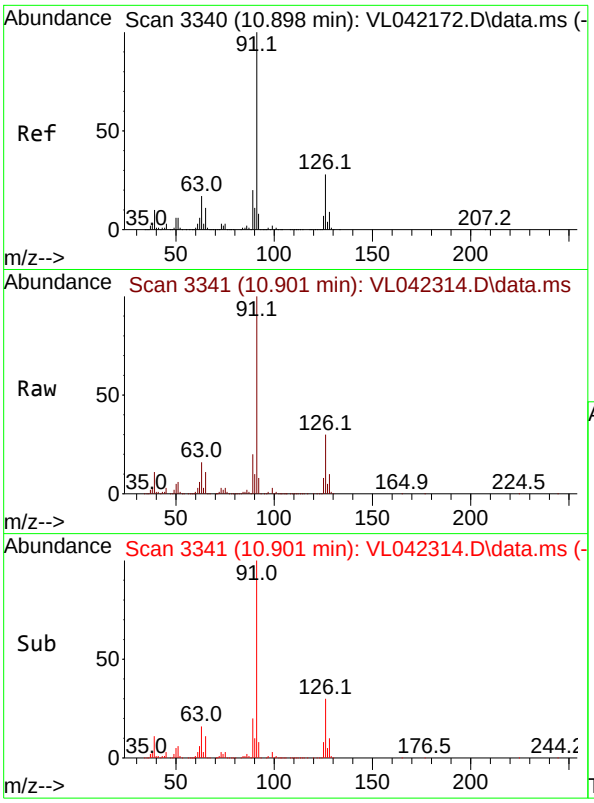




#70
n-Butylbenzene
Concen: 12.159 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion: 91 Resp: 1129853

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 55.7 | 44.9 | 67.3 |
| 134 | 23.9 | 19.2 | 28.8 |



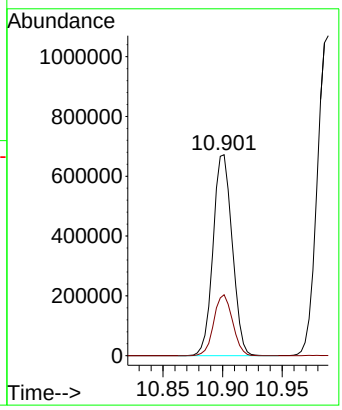


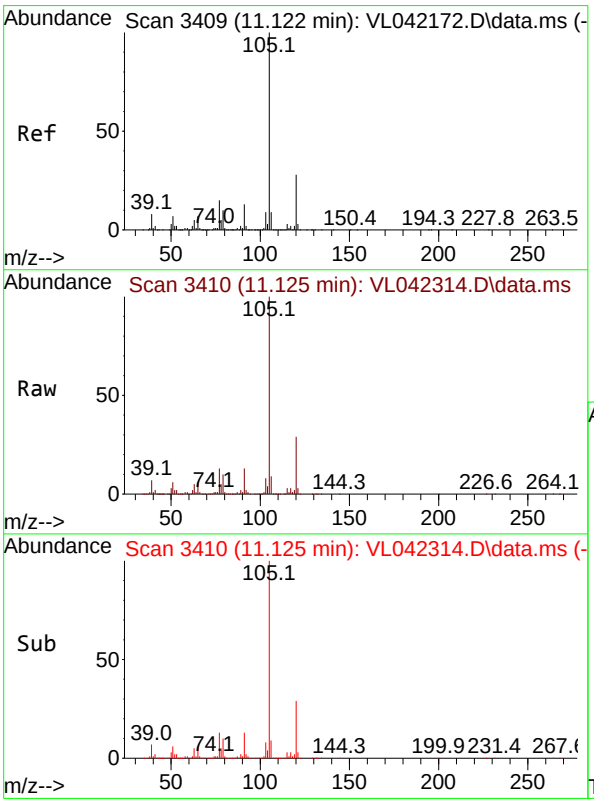

#71
2-Chlorotoluene
Concen: 11.768 ppbv
RT: 10.901 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

Tgt Ion: 91 Resp: 749737

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 29.7 | 11.6 | 46.4 |

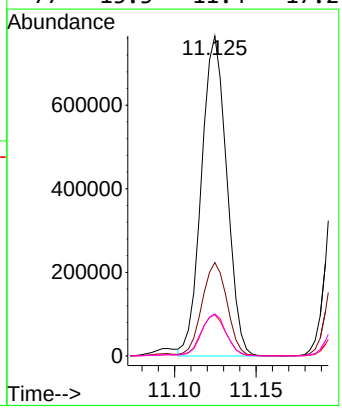


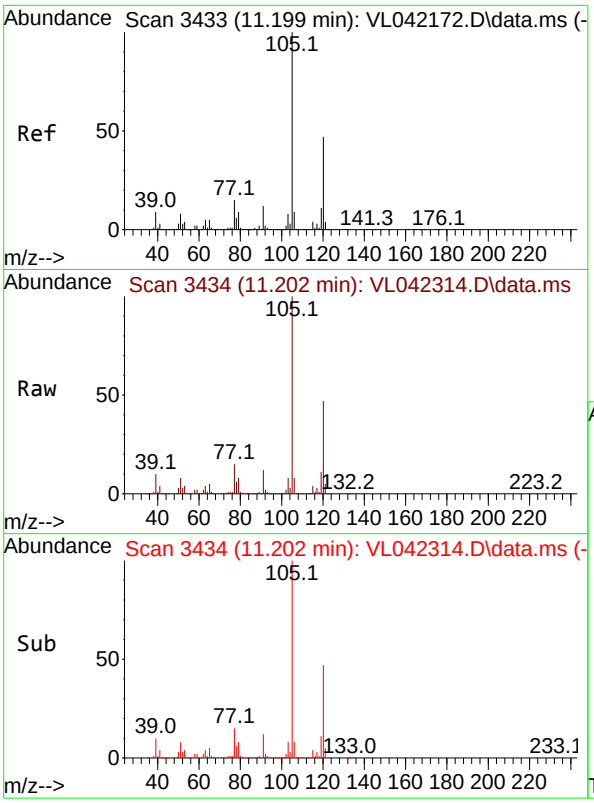




#72
4-Ethyltoluene
Concen: 12.071 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion:105 Resp: 825037

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 29.7 | 23.4 | 35.0 |
| 91 | 13.0 | 10.3 | 15.5 |
| 77 | 13.3 | 11.4 | 17.2 |



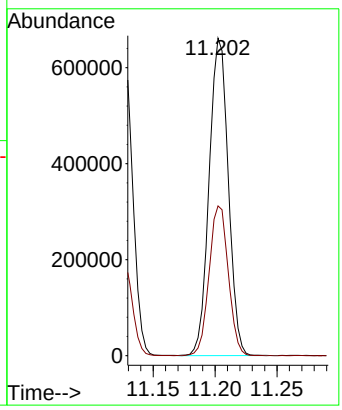


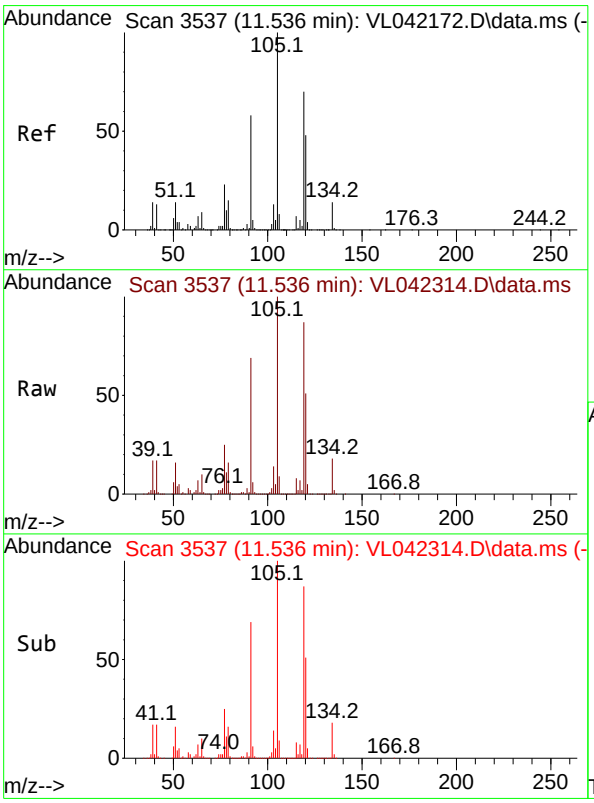

#73
1,3,5-Trimethylbenzene
Concen: 11.914 ppbv
RT: 11.202 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

Tgt Ion:105 Resp: 711175

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.2 | 37.4 | 56.0 |

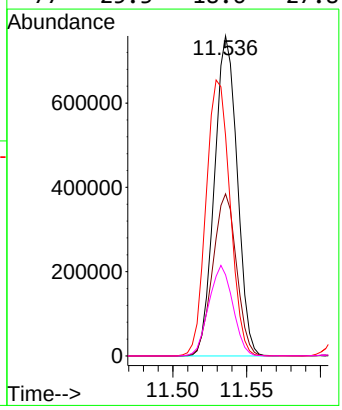


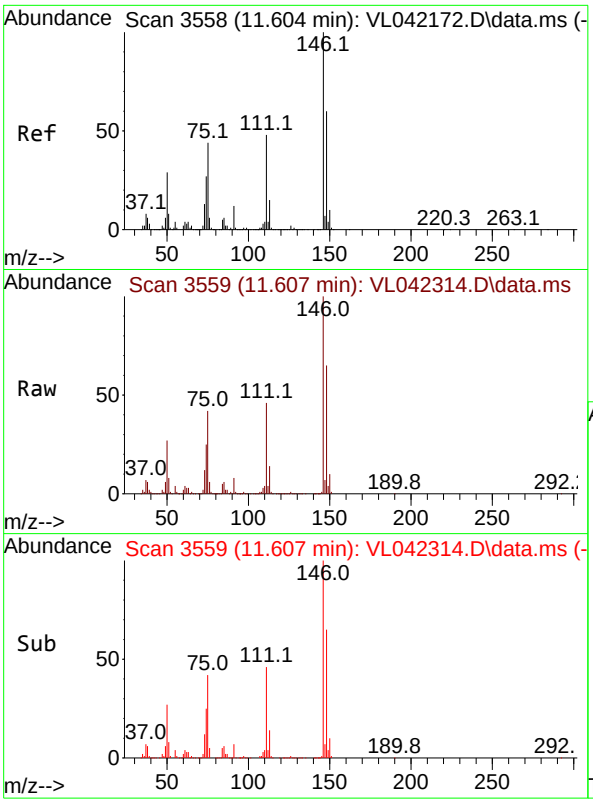




#74
1,2,4-Trimethylbenzene
Concen: 11.873 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion:105 Resp: 816505

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 50.6 | 38.6 | 58.0 |
| 91 | 68.8 | 46.2 | 69.2 |
| 77 | 25.3 | 18.6 | 27.8 |



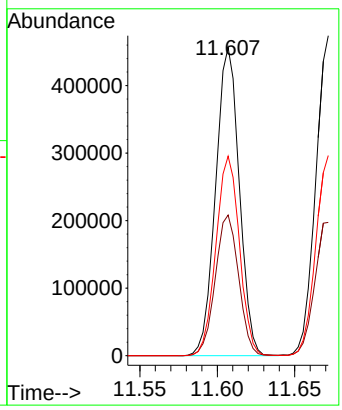


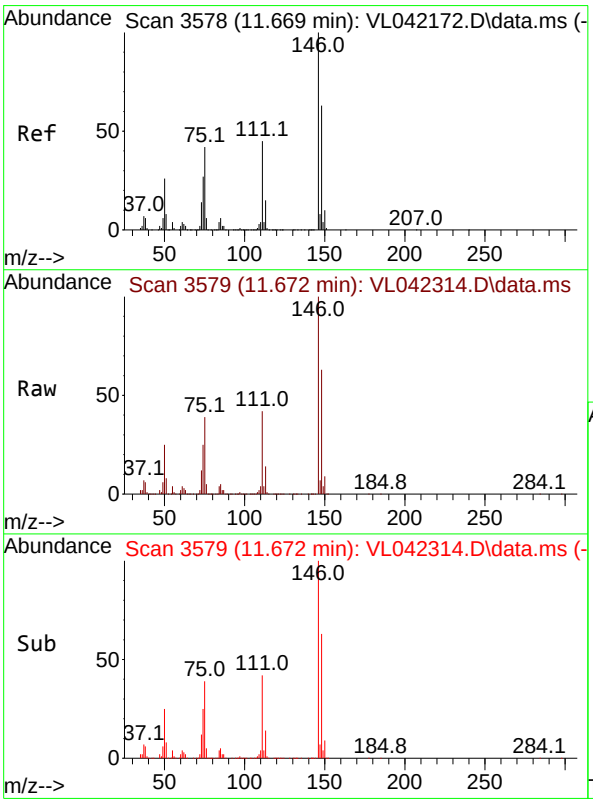

#75
1,3-Dichlorobenzene
Concen: 12.835 ppbv
RT: 11.607 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

Tgt Ion:146 Resp: 484099

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 45.2 | 23.8 | 71.2 |
| 148 | 64.3 | 31.9 | 95.9 |

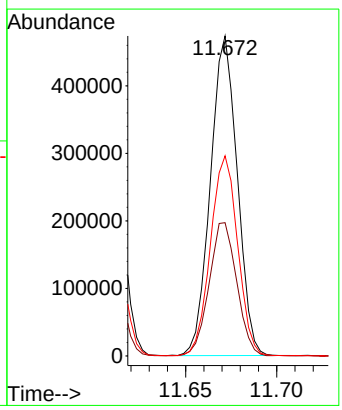


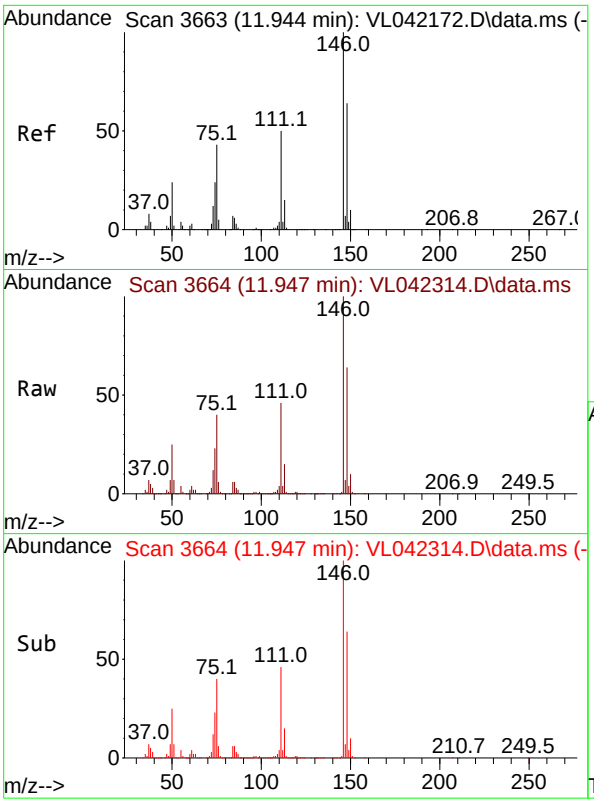




#76
1,4-Dichlorobenzene
Concen: 12.933 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion:146 Resp: 485460

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.1 | 23.0 | 69.0 |
| 148 | 63.7 | 31.9 | 95.7 |



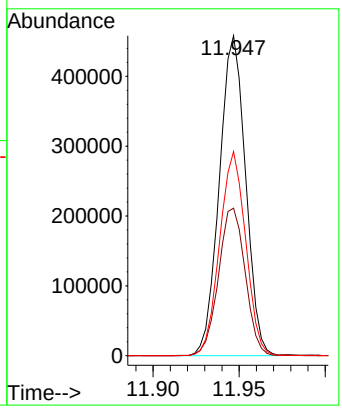


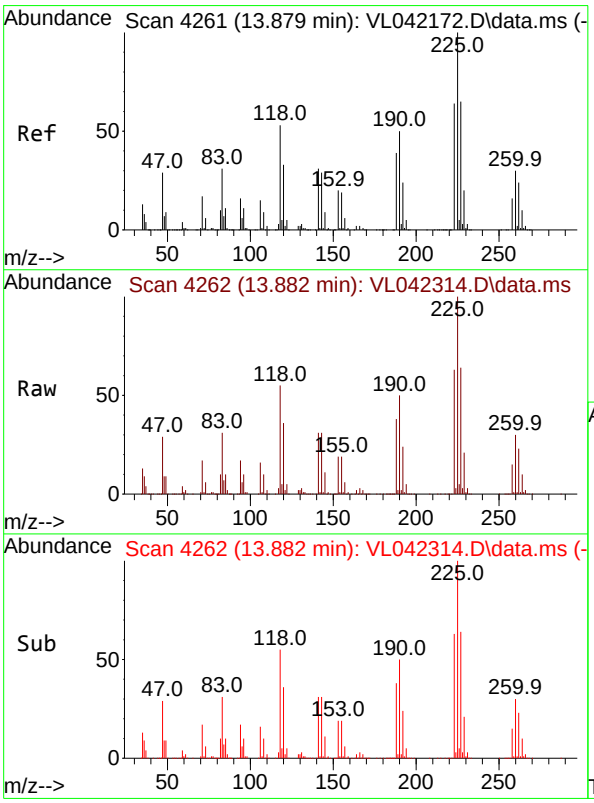

#77
1,2-Dichlorobenzene
Concen: 13.218 ppbv
RT: 11.947 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

Tgt Ion:146 Resp: 485421

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 47.1 | 24.8 | 74.3 |
| 148 | 63.5 | 31.6 | 94.8 |

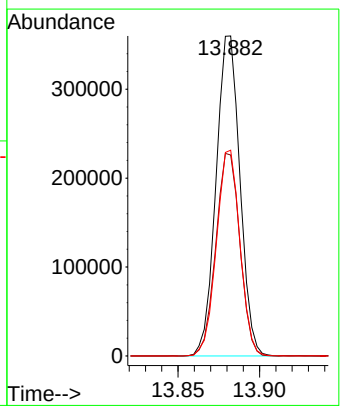


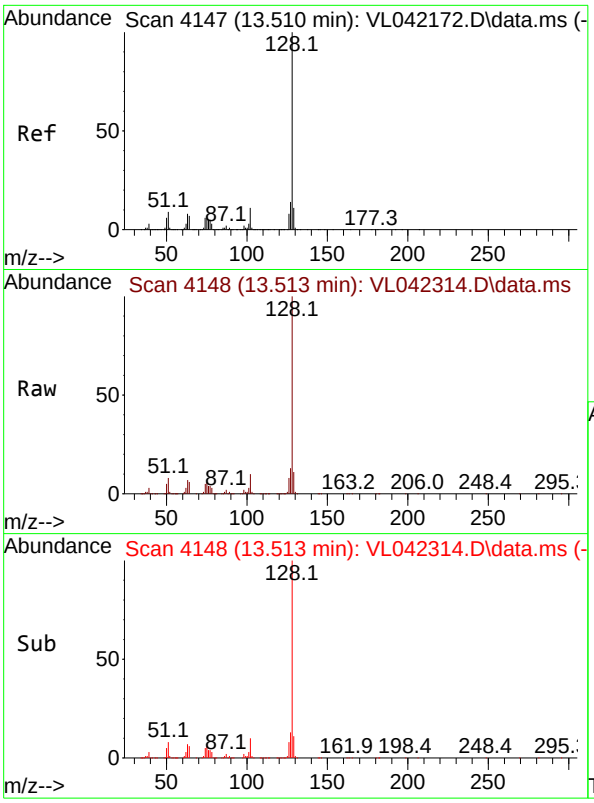




#78
Hexachloro-1,3-Butadiene
Concen: 9.814 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion:225 Resp: 366850

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.5 | 50.6 | 76.0 |
| 227 | 63.2 | 51.2 | 76.8 |



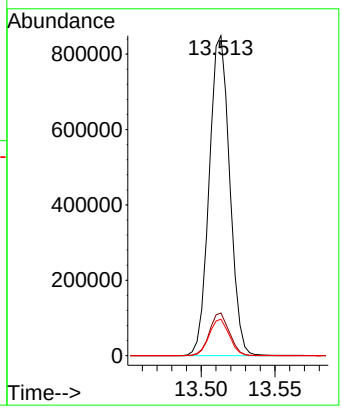


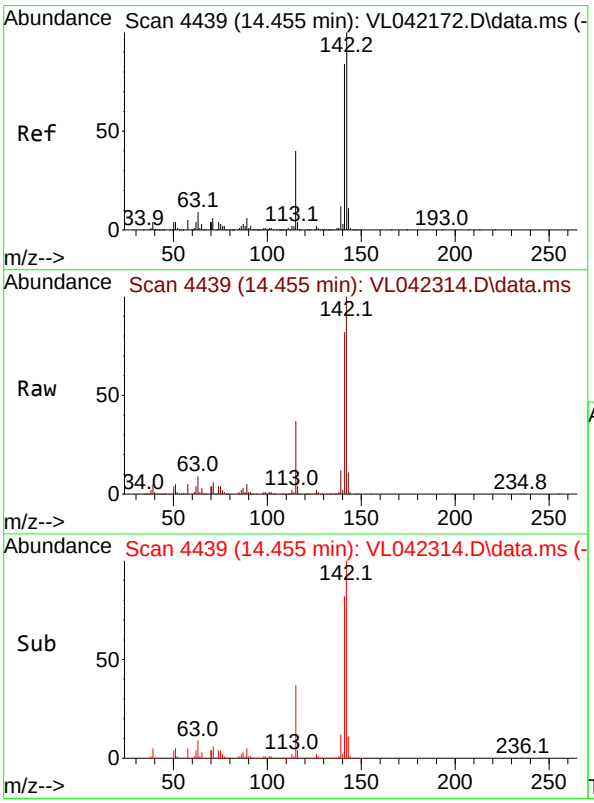

#79
Naphthalene
Concen: 10.904 ppbv
RT: 13.513 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

Tgt Ion:128 Resp: 820200

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.3 | 10.8 | 16.2 |
| 129 | 11.4 | 9.0 | 13.4 |

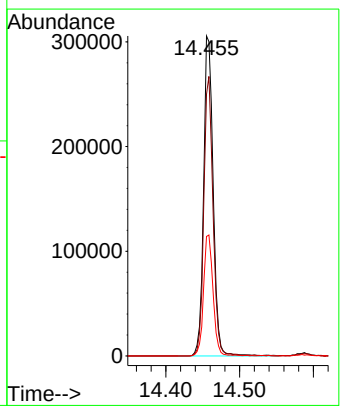


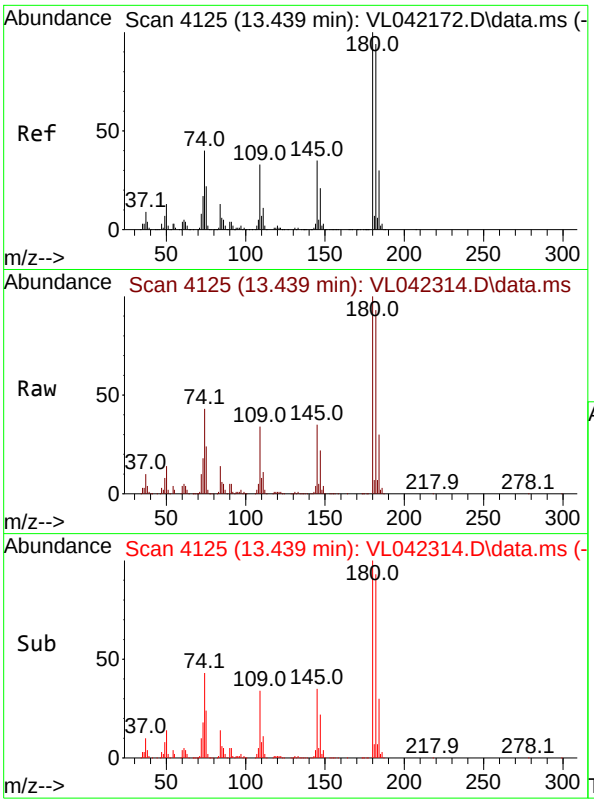




#80
Naphthalene,2-methyl-
Concen: 7.434 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

Tgt Ion:142 Resp: 274227

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 84.7 | 66.3 | 99.5 |
| 115 | 37.9 | 31.6 | 47.4 |



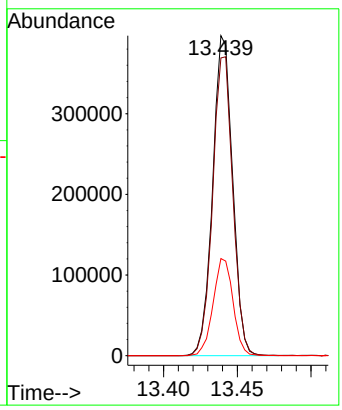



#81
1,2,4-Trichlorobenzene
Concen: 10.762 ppbv
RT: 13.439 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042314.D
Acq: 11 Apr 2025 11:23

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0411ABS01

Tgt Ion:180 Resp: 373404

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.7 | 75.1 | 112.7 |
| 184 | 30.3 | 24.4 | 36.6 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042317.D
Acq On : 11 Apr 2025 13:15
Operator : SY/MD
Sample : Q1665-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025

Quant Time: Apr 11 22:59:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

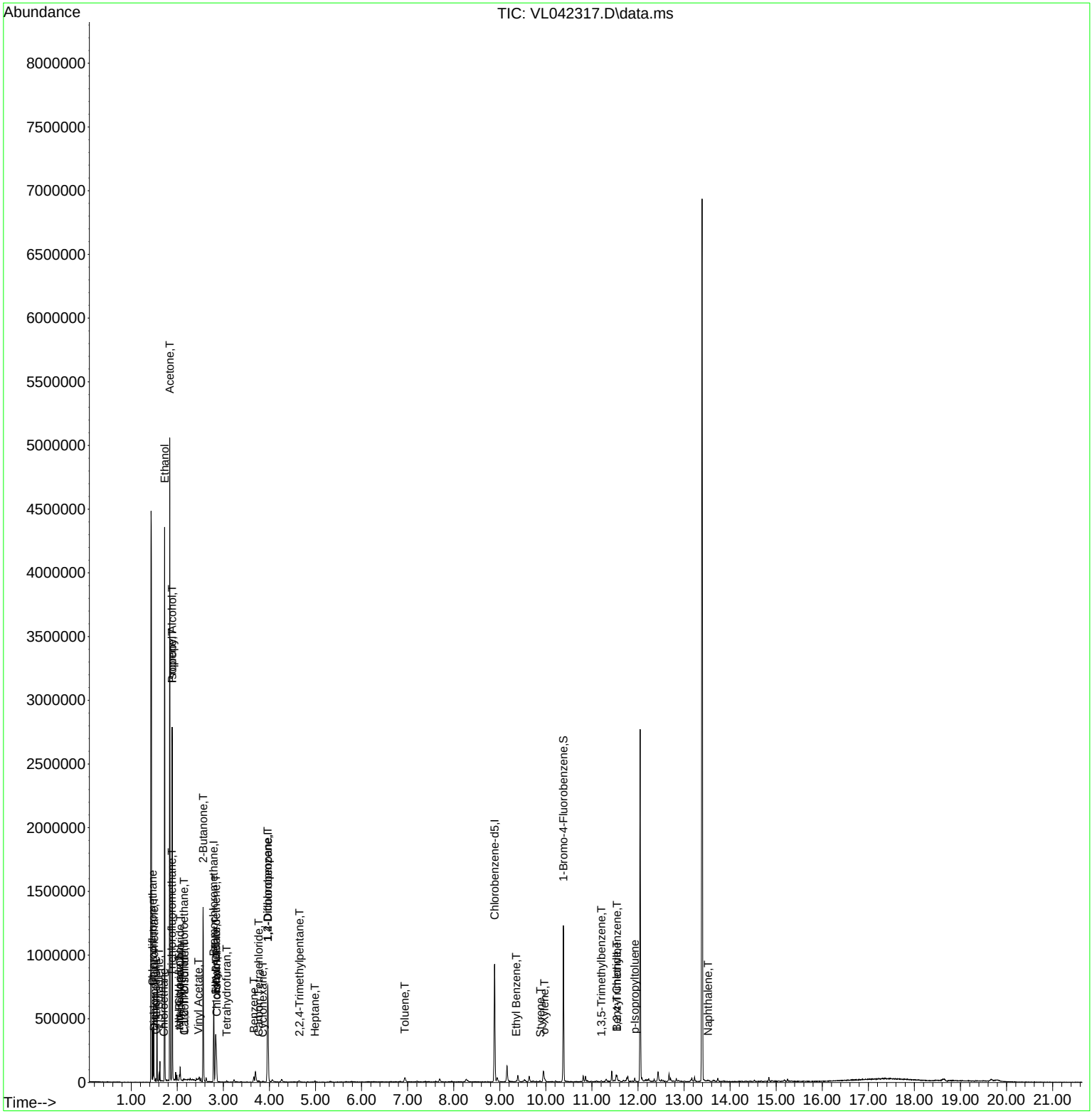
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) Bromochloromethane | 2.790 | 49 | 179309 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.965 | 114 | 422807 | 10.000 | ppbv | | 0.01 |
| 55) Chlorobenzene-d5 | 8.888 | 117 | 360993 | 10.000 | ppbv | | 0.01 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.380 | 95 | 291371 | 9.829 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 98.300% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.499 | 85 | 10578 | 0.400 | ppbv | | 98 |
| 3) Chlorodifluoromethane | 1.466 | 51 | 93929 | 3.473 | ppbv | # | 62 |
| 4) Chloromethane | 1.531 | 50 | 6409 | 0.592 | ppbv | | 93 |
| 7) Chloroethane | 1.706 | 64 | 240 | 0.055 | ppbv | | 93 |
| 9) Propene | 1.887 | 41 | 119548 | 9.644 | ppbv | | 88 |
| 10) Heptane | 4.988 | 43 | 1233 | 0.037 | ppbv | # | 28 |
| 11) Trichlorofluoromethane | 1.881 | 101 | 5509 | 0.214 | ppbv | | 86 |
| 12) 1,1,2-Trichlorotrifluo... | 2.143 | 101 | 1509 | 0.071 | ppbv | | 100 |
| 13) Ethanol | 1.725 | 45 | 1540169 | 1314.265 | ppbv | | 93 |
| 15) Acetone | 1.835 | 43 | 2074699 | 82.732 | ppbv | # | 78 |
| 16) 1,3-Butadiene | 1.602 | 39 | 6866 | 0.561 | ppbv | # | 34 |
| 17) tert-Butyl alcohol | 2.046 | 59 | 14565 | 0.466 | ppbv | | 97 |
| 19) Isopropyl Alcohol | 1.887 | 45 | 1147205 | 81.079 | ppbv | # | 58 |
| 20) Methylene Chloride | 2.065 | 84 | 14725 | 1.577 | ppbv | | 90 |
| 21) Allyl Chloride | 2.046 | 41 | 5543 | 0.313 | ppbv | # | 32 |
| 23) Vinyl Acetate | 2.457 | 43 | 13063 | 1.204 | ppbv | # | 96 |
| 25) Ethyl Acetate | 2.839 | 43 | 166820 | 2.563 | ppbv | | 98 |
| 26) Hexane | 2.829 | 57 | 64050 | 2.548 | ppbv | | 93 |
| 27) Carbon Disulfide | 2.152 | 76 | 1240 | 0.046 | ppbv | # | 58 |
| 29) Chloroform | 2.855 | 83 | 50104 | 1.362 | ppbv | | 95 |
| 30) Cyclohexane | 3.855 | 84 | 856 | 0.039 | ppbv | # | 1 |
| 31) cis-1,2-Dichloroethene | 2.842 | 61 | 14803 | 0.580 | ppbv | # | 25 |
| 34) 2-Butanone | 2.560 | 43 | 822701 | 26.834 | ppbv | | 98 |
| 35) Carbon Tetrachloride | 3.768 | 117 | 2524 | 0.076 | ppbv | # | 88 |
| 36) Benzene | 3.664 | 78 | 25066 | 0.598 | ppbv | # | 90 |
| 39) 1,2-Dichloropropane | 3.962 | 63 | 108598 | 7.114 | ppbv | # | 23 |
| 41) Tetrahydrofuran | 3.072 | 42 | 2277 | 0.129 | ppbv | # | 67 |
| 44) 2,2,4-Trimethylpentane | 4.651 | 57 | 5375 | 0.076 | ppbv | # | 33 |
| 53) Toluene | 6.939 | 91 | 24232 | 0.488 | ppbv | | 99 |
| 58) Ethyl Benzene | 9.357 | 91 | 4399 | 0.069 | ppbv | | 91 |
| 60) o-Xylene | 9.969 | 91 | 5940 | 0.116 | ppbv | | 89 |
| 61) Styrene | 9.878 | 104 | 838 | 0.033 | ppbv | # | 1 |
| 66) Benzyl Chloride | 11.539 | 91 | 1109 | 0.147 | ppbv | # | 70 |
| 69) p-Isopropyltoluene | 11.930 | 119 | 7802 | 0.092 | ppbv | # | 68 |
| 73) 1,3,5-Trimethylbenzene | 11.205 | 105 | 1875 | 0.034 | ppbv | | 96 |
| 74) 1,2,4-Trimethylbenzene | 11.542 | 105 | 7764 | 0.121 | ppbv | # | 72 |
| 79) Naphthalene | 13.520 | 128 | 3811 | 0.054 | ppbv | | 98 |

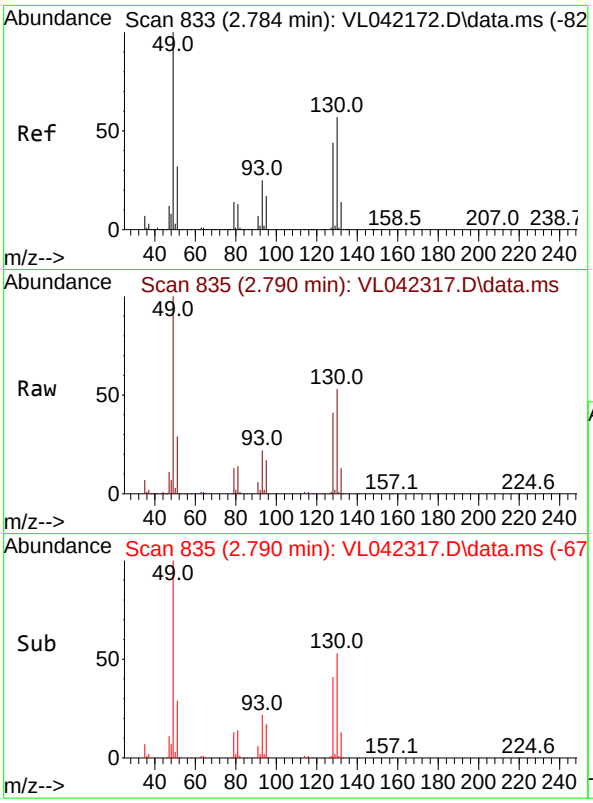
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042317.D
Acq On : 11 Apr 2025 13:15
Operator : SY/MD
Sample : Q1665-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025

Quant Time: Apr 11 22:59:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration



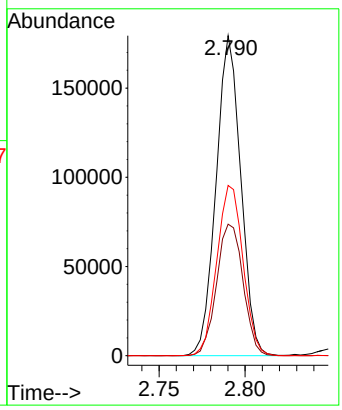


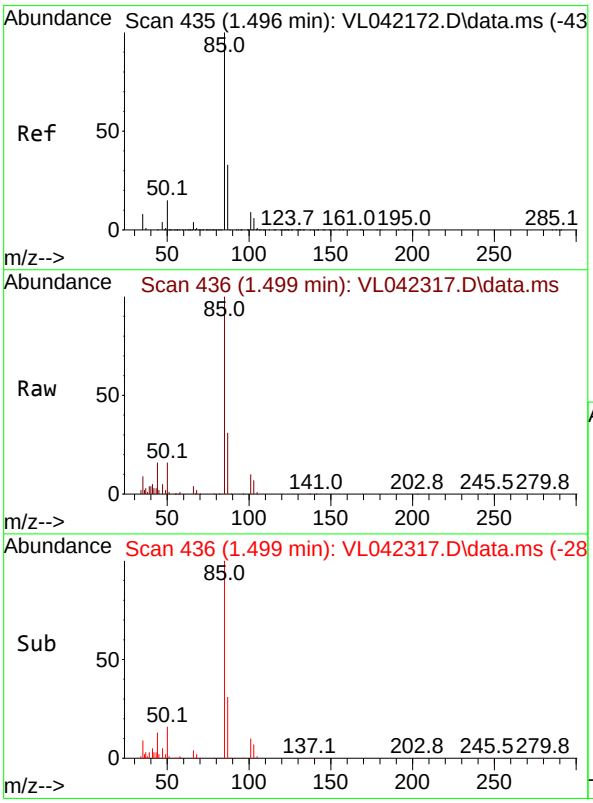

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.006 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025

Tgt Ion: 49 Resp: 179309

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 44.1 | 22.9 | 68.5 |
| 130 | 56.5 | 28.8 | 86.4 |

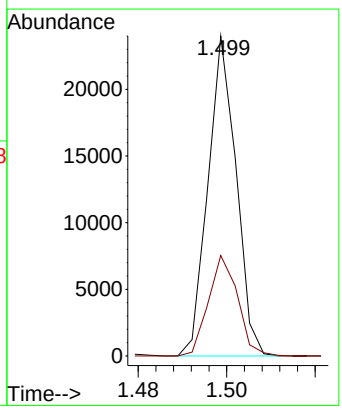


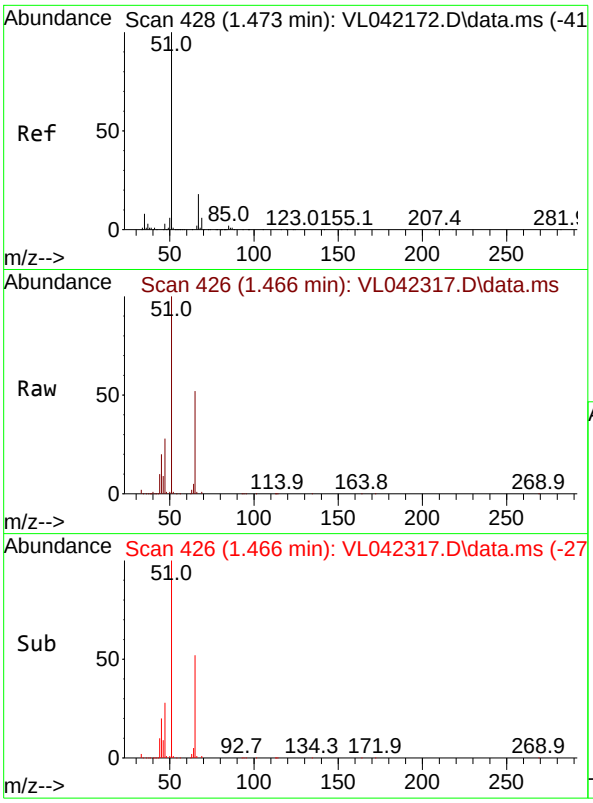




#2
Dichlorodifluoromethane
Concen: 0.400 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion: 85 Resp: 10578

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.4 | 26.1 | 39.1 |



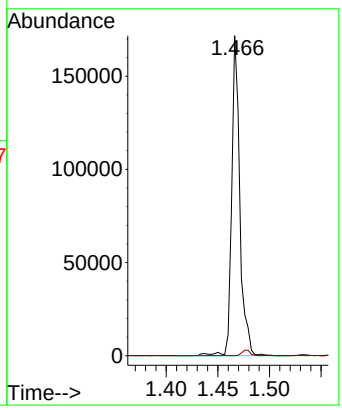


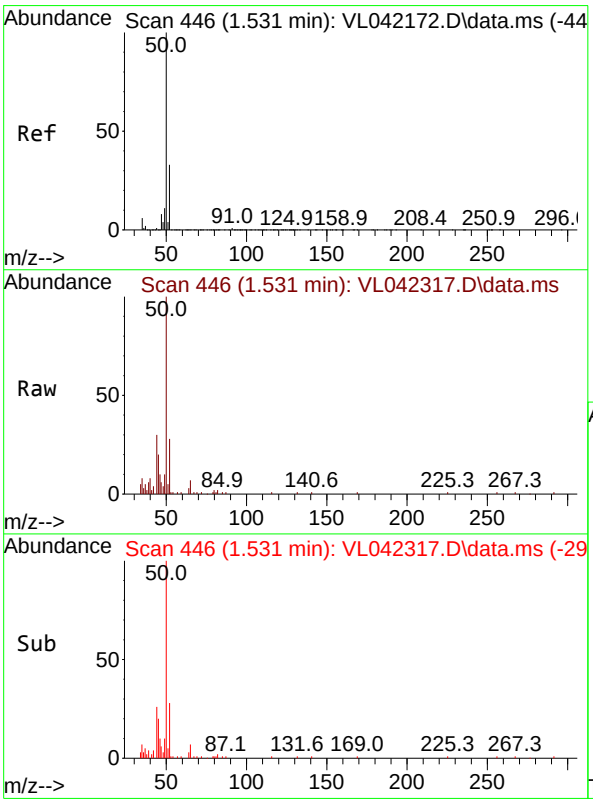

#3
Chlorodifluoromethane
Concen: 3.473 ppbv
RT: 1.466 min Scan# 4
Delta R.T. -0.007 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025

Tgt Ion: 51 Resp: 93929

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 1.8 | 15.0 | 22.6# |

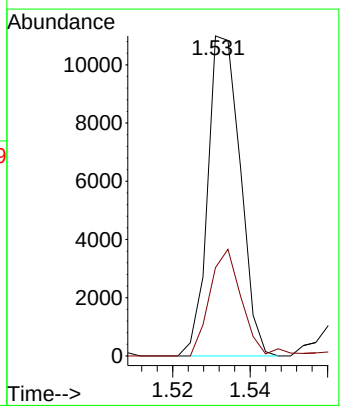


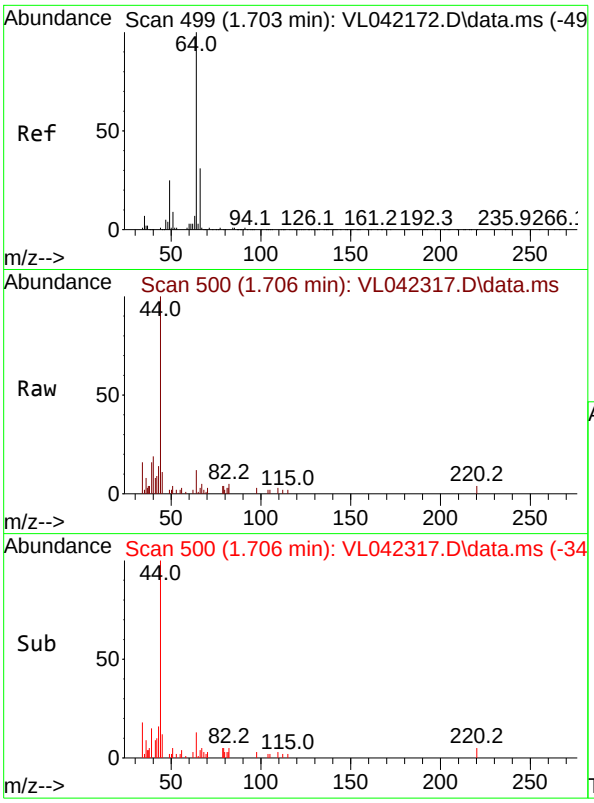




#4
Chloromethane
Concen: 0.592 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion: 50 Resp: 6409

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 28.9 | 26.1 | 39.1 |



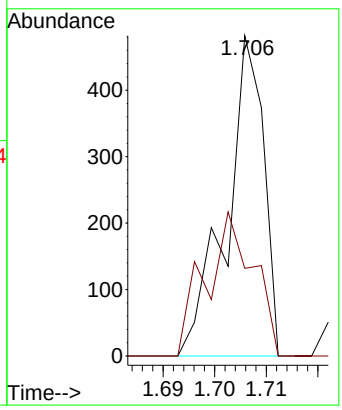


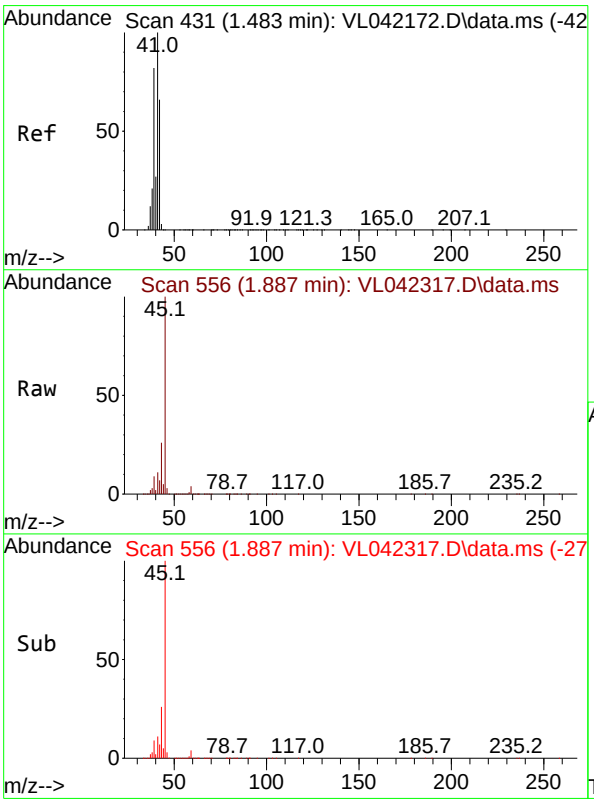

#7
Chloroethane
Concen: 0.055 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025

Tgt Ion: 64 Resp: 240

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 27.4 | 25.2 | 37.8 |

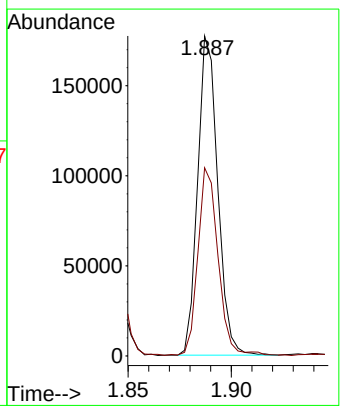


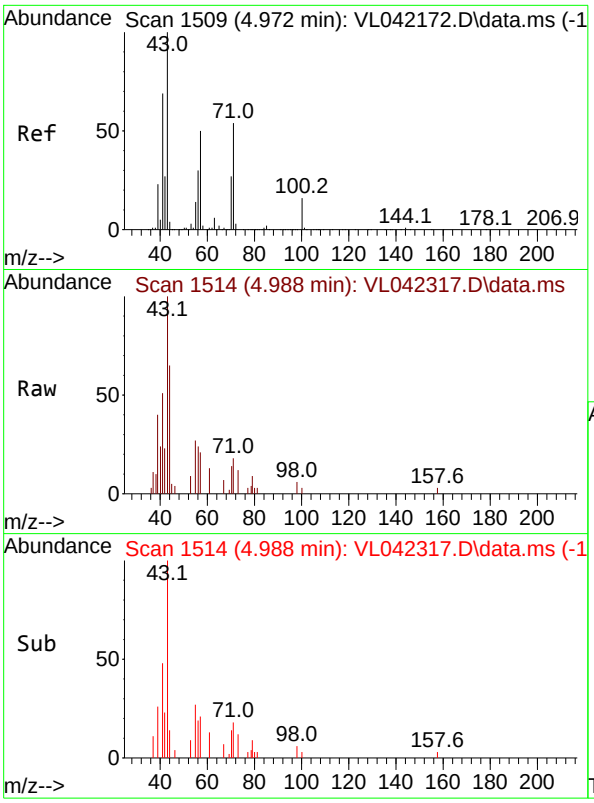




#9
Propene
Concen: 9.644 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.404 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion: 41 Resp: 119548

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 59.2 | 55.4 | 83.2 |



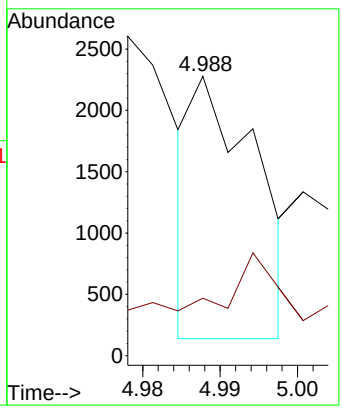


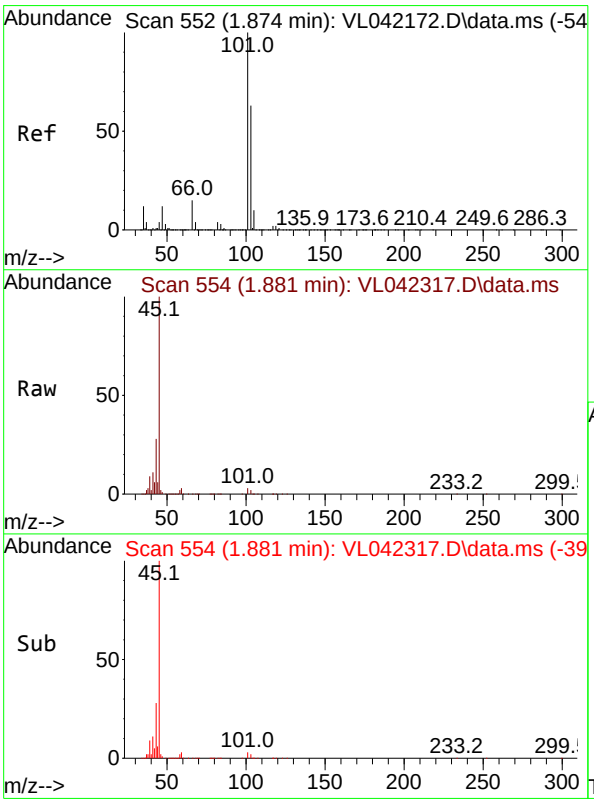

#10
Heptane
Concen: 0.037 ppbv
RT: 4.988 min Scan# 1
Delta R.T. 0.016 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025

Tgt Ion: 43 Resp: 1233

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 0.0 | 39.4 | 59.2# |

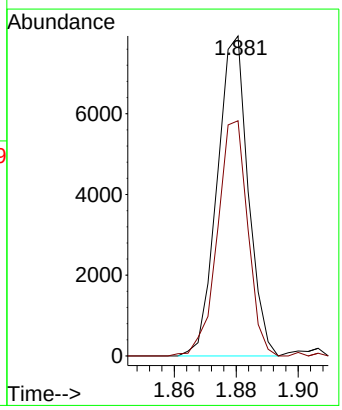


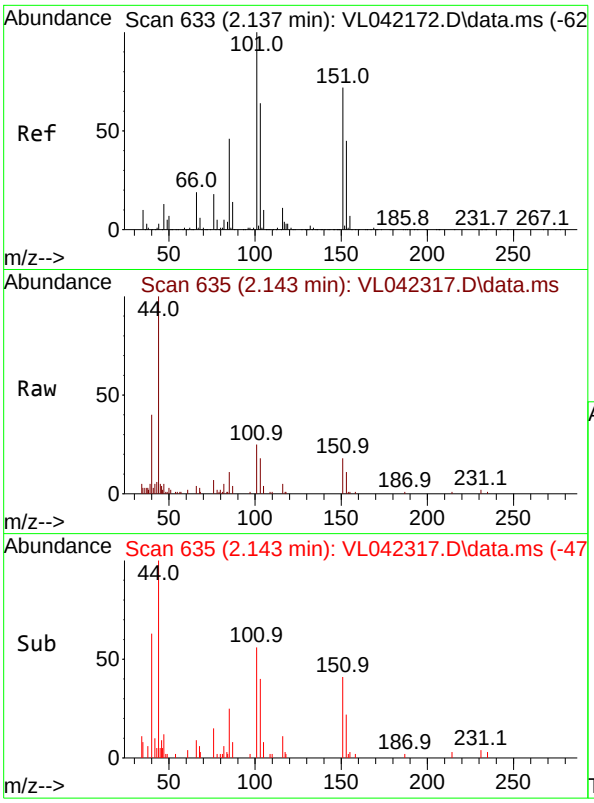




#11
Trichlorofluoromethane
Concen: 0.214 ppbv
RT: 1.881 min Scan# 554
Delta R.T. 0.006 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion:101 Resp: 5509

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 73.5 | 50.2 | 75.2 |



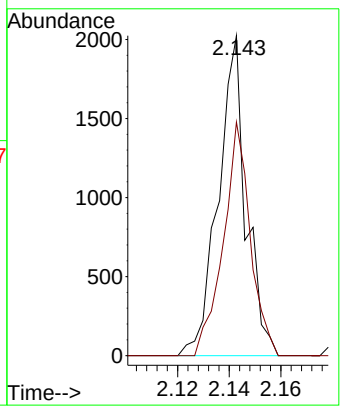


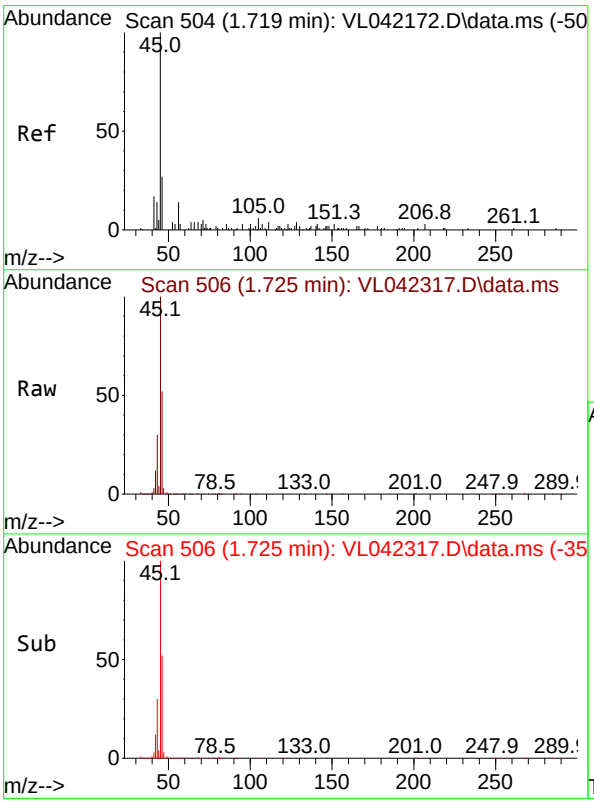

#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.071 ppbv
RT: 2.143 min Scan# 6
Delta R.T. 0.006 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025

Tgt Ion:101 Resp: 1509

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 71.1 | 57.1 | 85.7 |

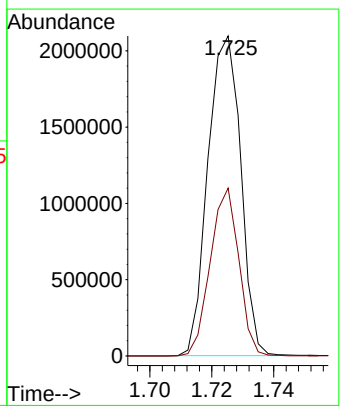


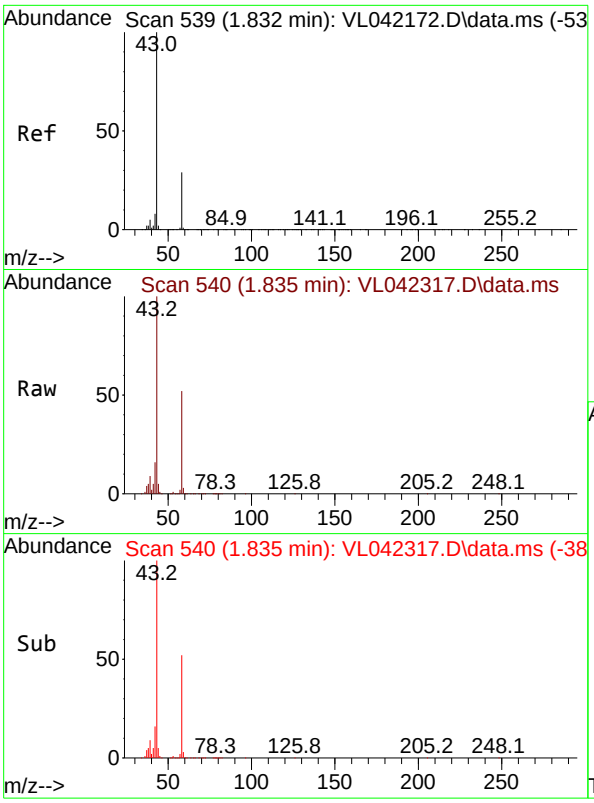




#13
Ethanol
Concen: 1314.265 ppbv
RT: 1.725 min Scan# 506
Delta R.T. 0.006 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion: 45 Resp: 1540169

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 45.9 | 20.2 | 80.8 |



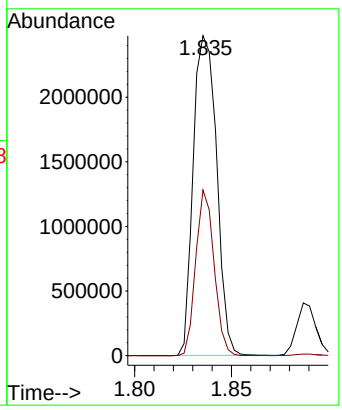


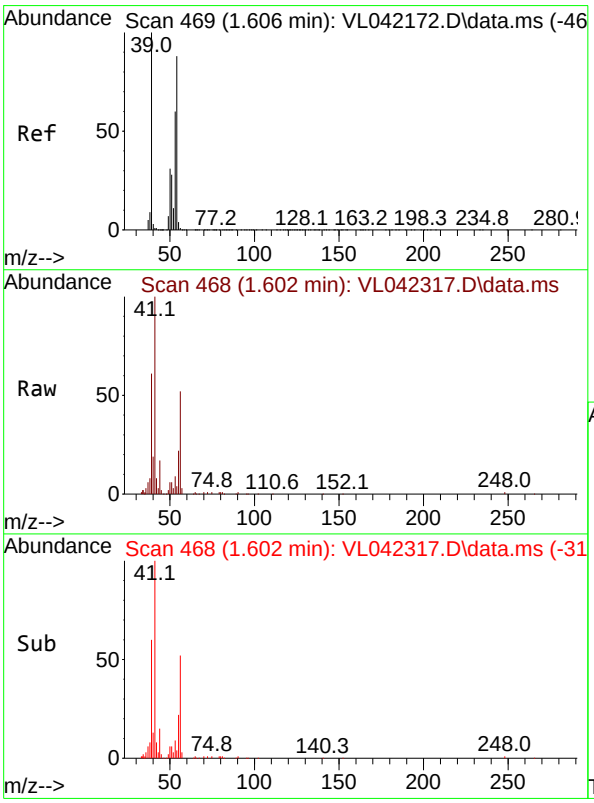

#15
Acetone
Concen: 82.732 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025

Tgt Ion: 43 Resp: 2074699

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 40.8 | 23.2 | 34.8# |

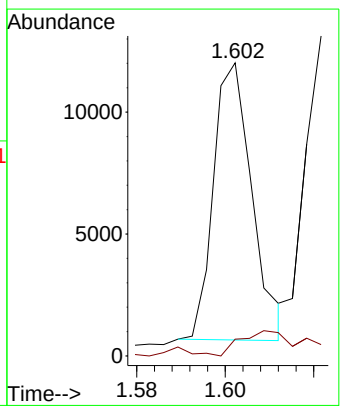


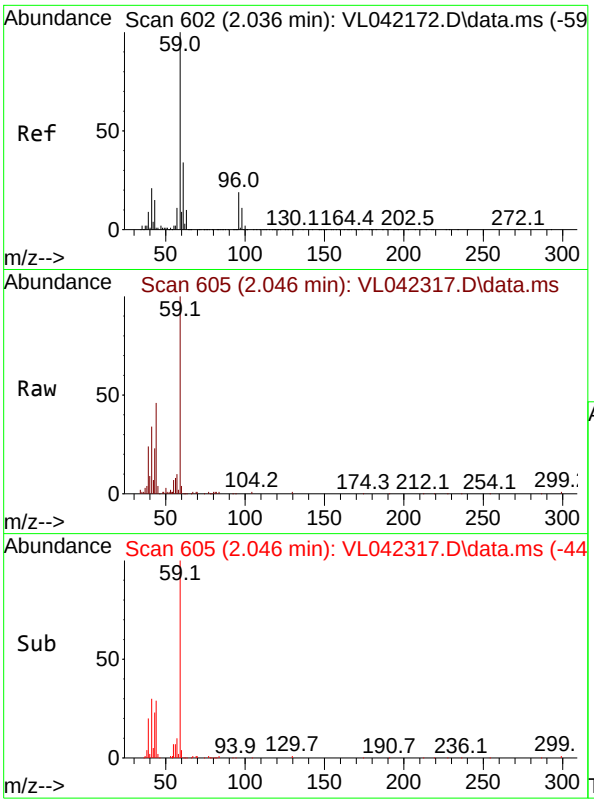




#16
1,3-Butadiene
Concen: 0.561 ppbv
RT: 1.602 min Scan# 468
Delta R.T. -0.004 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion: 39 Resp: 6866

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 19.3 | 60.7 | 91.1# |



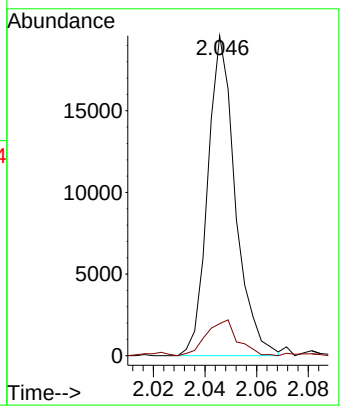


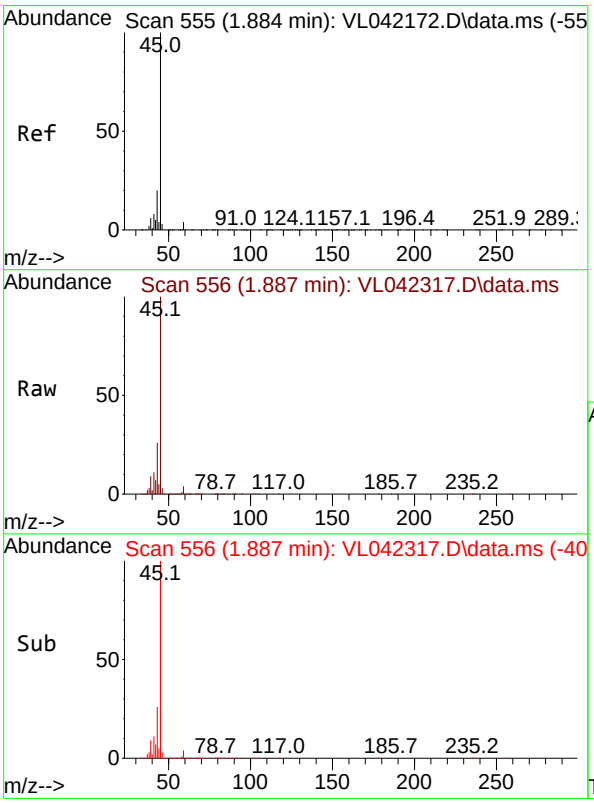

#17
tert-Butyl alcohol
Concen: 0.466 ppbv
RT: 2.046 min Scan# 6
Delta R.T. 0.009 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025

Tgt Ion: 59 Resp: 14565

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 12.2 | 8.9 | 13.3 |

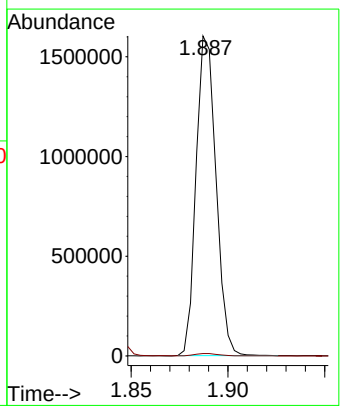


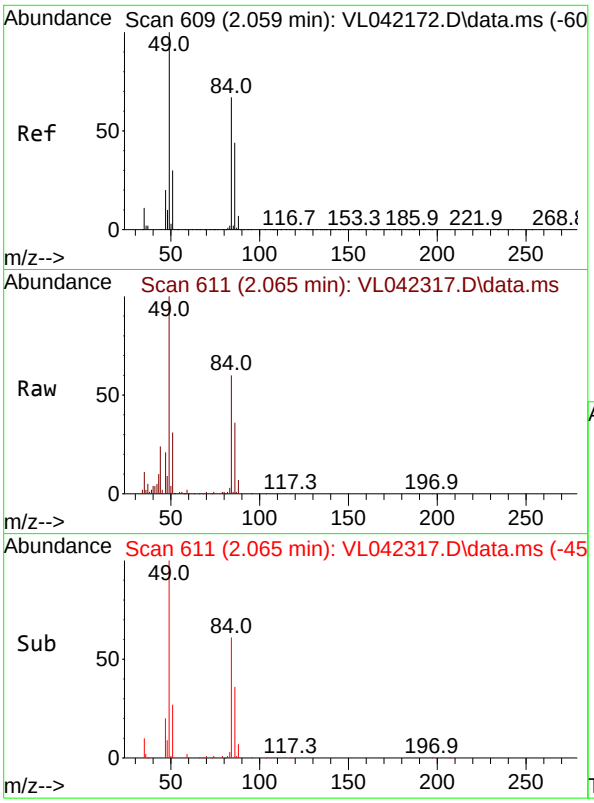




#19
Isopropyl Alcohol
Concen: 81.079 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion: 45 Resp: 1147205

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 73.9 | 36.9 | 55.3# |



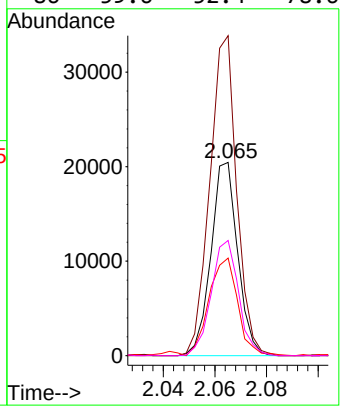


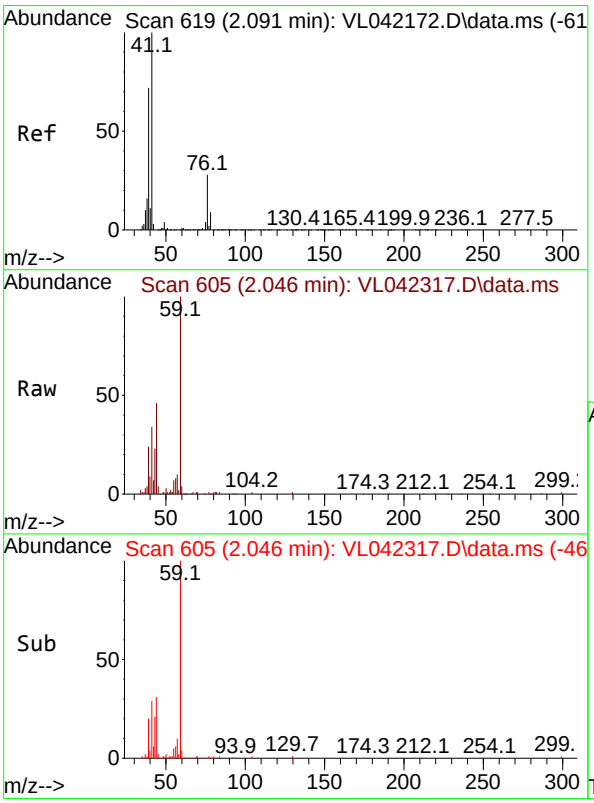

#20
Methylene Chloride
Concen: 1.577 ppbv
RT: 2.065 min Scan# 6
Delta R.T. 0.006 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025

Tgt Ion: 84 Resp: 14725

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 165.6 | 120.2 | 180.4 |
| 51 | 49.9 | 37.4 | 56.0 |
| 86 | 59.6 | 52.4 | 78.6 |

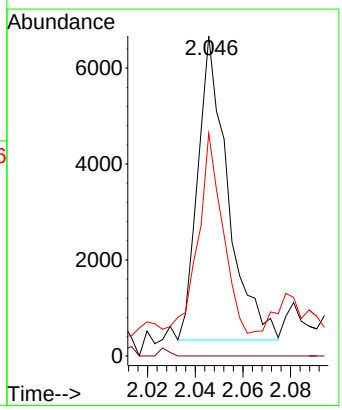


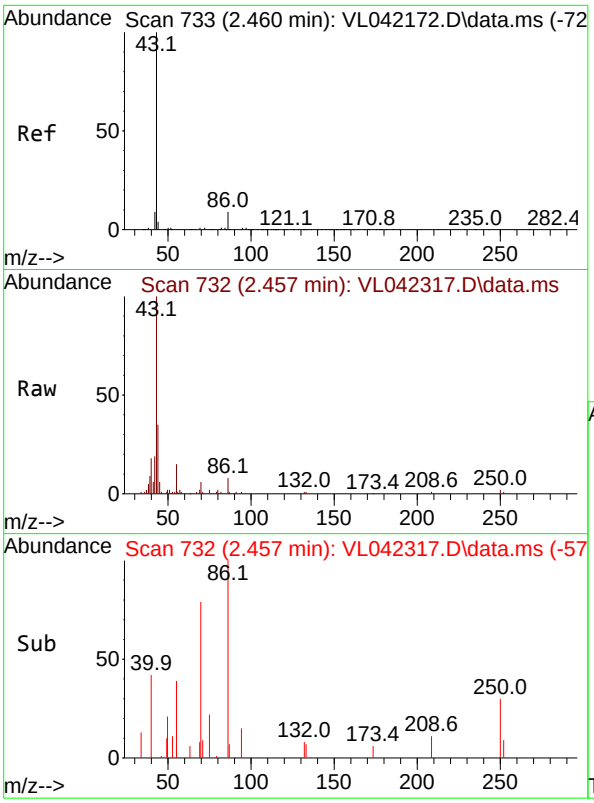




#21
Allyl Chloride
Concen: 0.313 ppbv
RT: 2.046 min Scan# 605
Delta R.T. -0.046 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion: 41 Resp: 5543

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 22.6 | 24.1 | 36.1# |
| 39 | 0.0 | 61.1 | 91.7# |



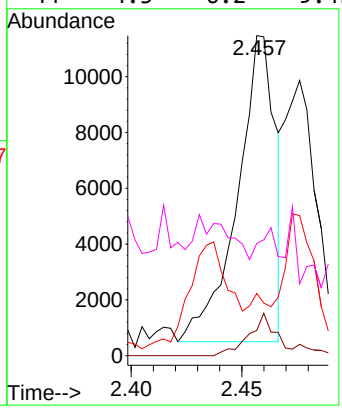


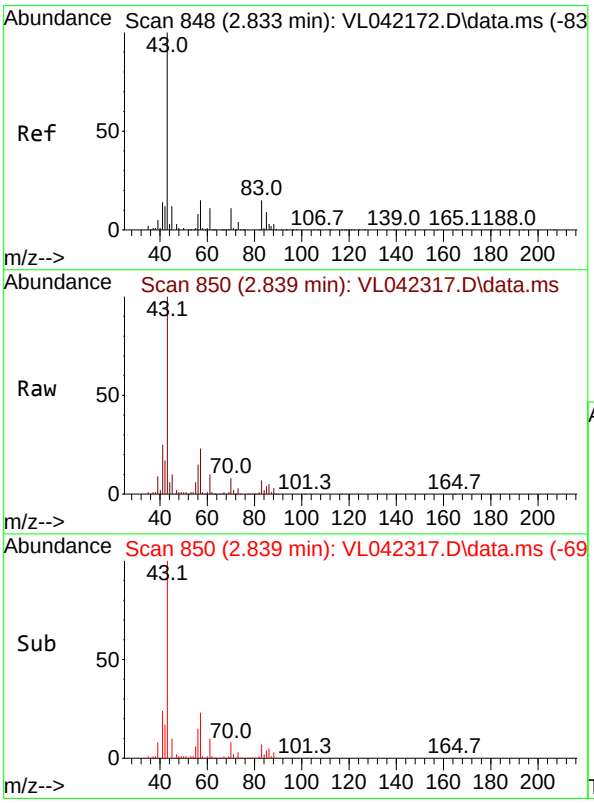

#23
Vinyl Acetate
Concen: 1.204 ppbv
RT: 2.457 min Scan# 7
Delta R.T. -0.004 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025

Tgt Ion: 43 Resp: 13063

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 8.3 | 5.5 | 8.3 |
| 42 | 10.8 | 8.6 | 13.0 |
| 44 | 4.3 | 6.2 | 9.4# |

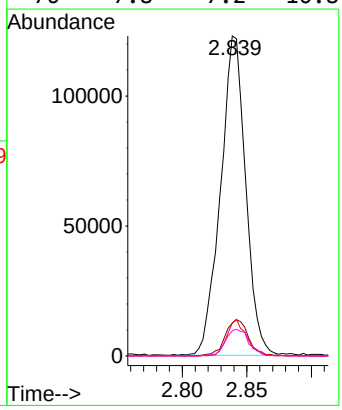


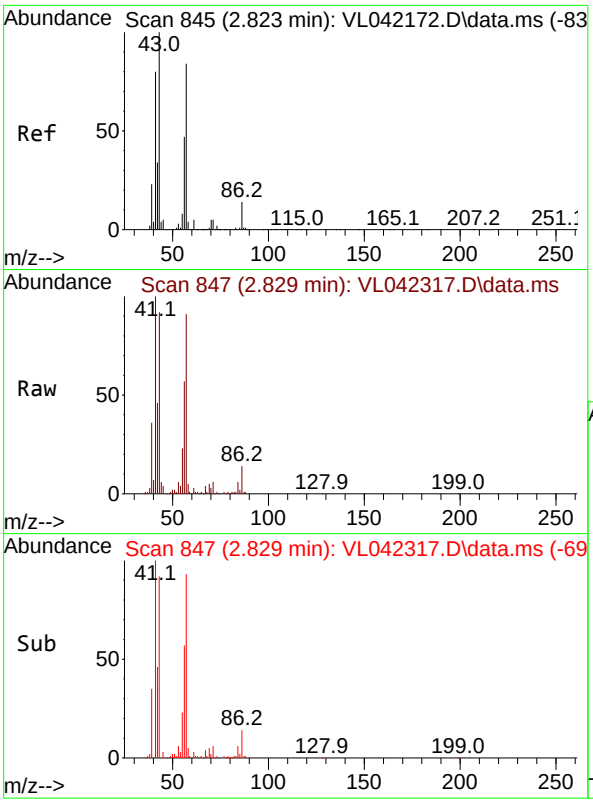




#25
Ethyl Acetate
Concen: 2.563 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.006 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion: 43 Resp: 166820

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 10.6 | 8.2 | 12.2 |
| 61 | 8.9 | 7.3 | 10.9 |
| 70 | 7.8 | 7.2 | 10.8 |



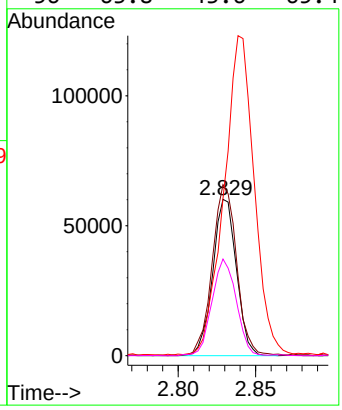


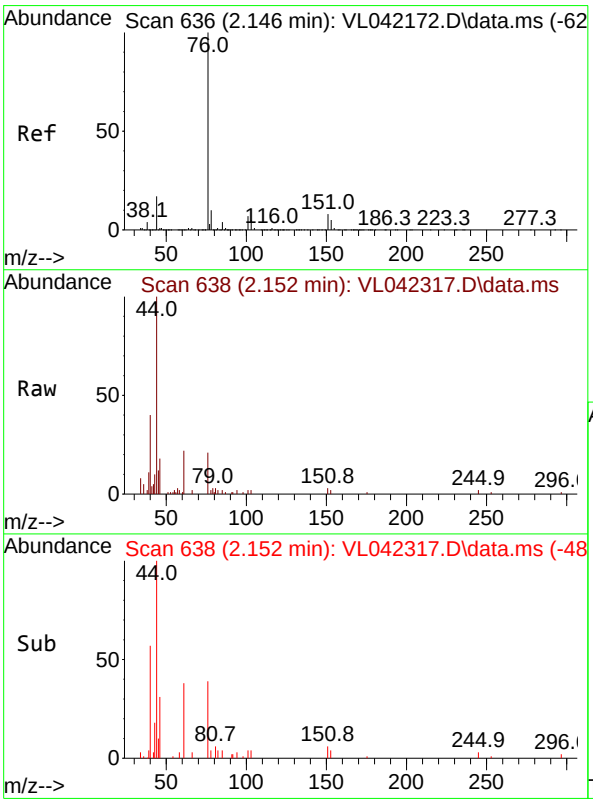

#26
Hexane
Concen: 2.548 ppbv
RT: 2.829 min Scan# 84
Delta R.T. 0.006 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025

Tgt Ion: 57 Resp: 64050

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 113.9 | 76.6 | 114.8 |
| 43 | 263.8 | 207.8 | 311.8 |
| 56 | 63.8 | 43.6 | 65.4 |

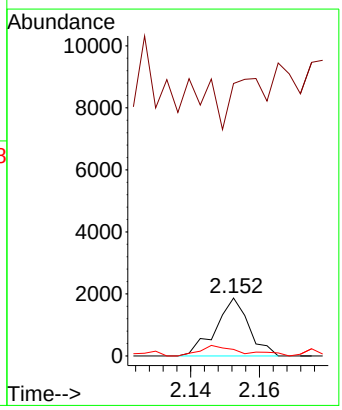


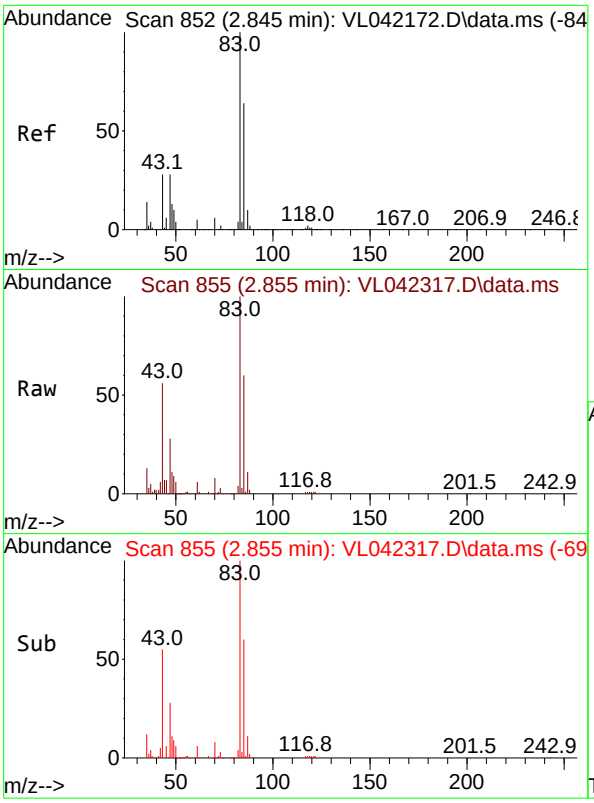




#27
Carbon Disulfide
Concen: 0.046 ppbv
RT: 2.152 min Scan# 638
Delta R.T. 0.006 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion: 76 Resp: 1240

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 0.0 | 14.7 | 22.1# |
| 78 | 27.7 | 9.3 | 13.9# |



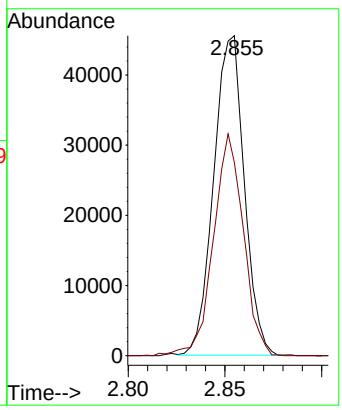


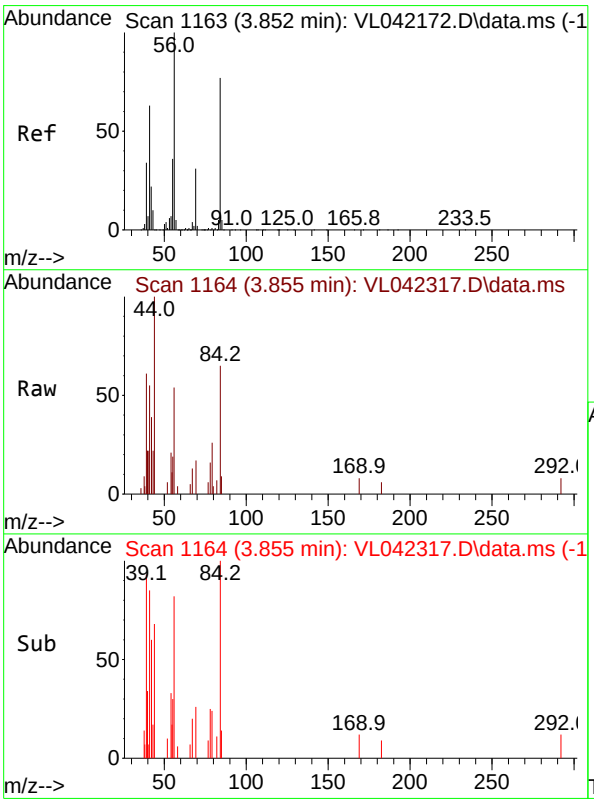

#29
Chloroform
Concen: 1.362 ppbv
RT: 2.855 min Scan# 8
Delta R.T. 0.009 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025

Tgt Ion: 83 Resp: 50104

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 60.2 | 51.4 | 77.2 |

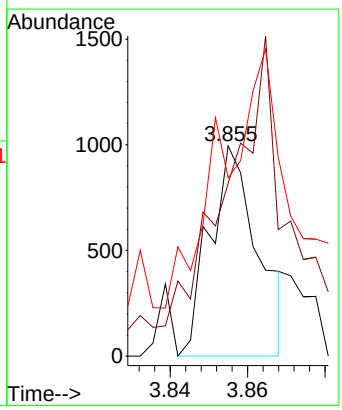


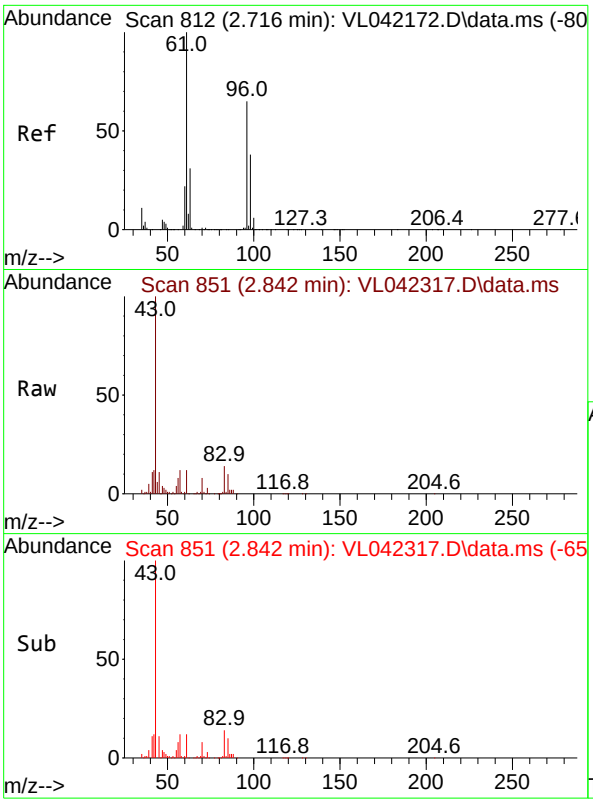




#30
Cyclohexane
Concen: 0.039 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. 0.003 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion: 84 Resp: 856

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 233.3 | 102.8 | 154.2# |
| 41 | 244.7 | 66.5 | 99.7# |



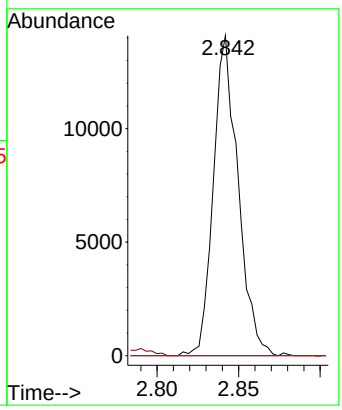


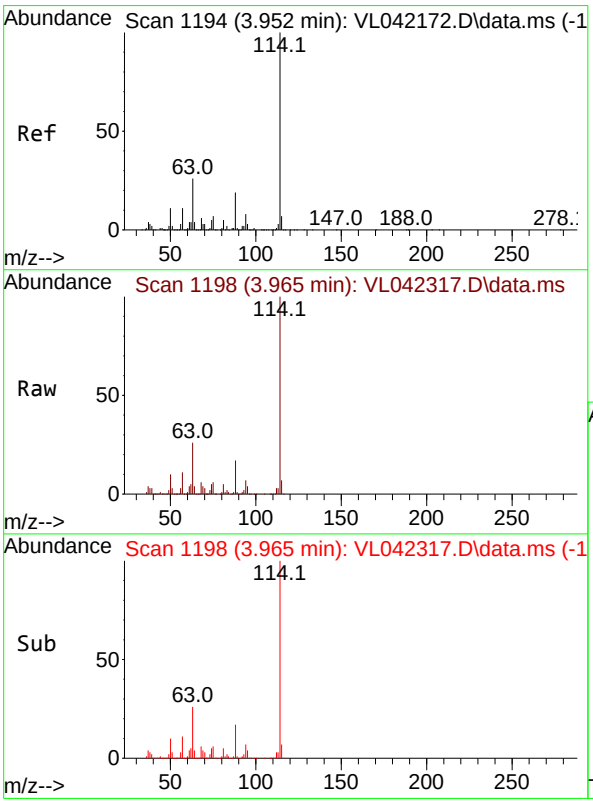

#31
cis-1,2-Dichloroethene
Concen: 0.580 ppbv
RT: 2.842 min Scan# 8
Delta R.T. 0.126 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025

Tgt Ion: 61 Resp: 14803

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 0.0 | 51.8 | 77.8# |
| 98 | 0.0 | 30.6 | 46.0# |

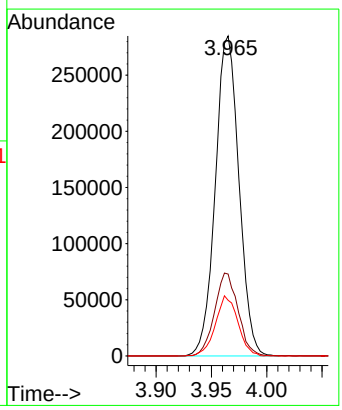


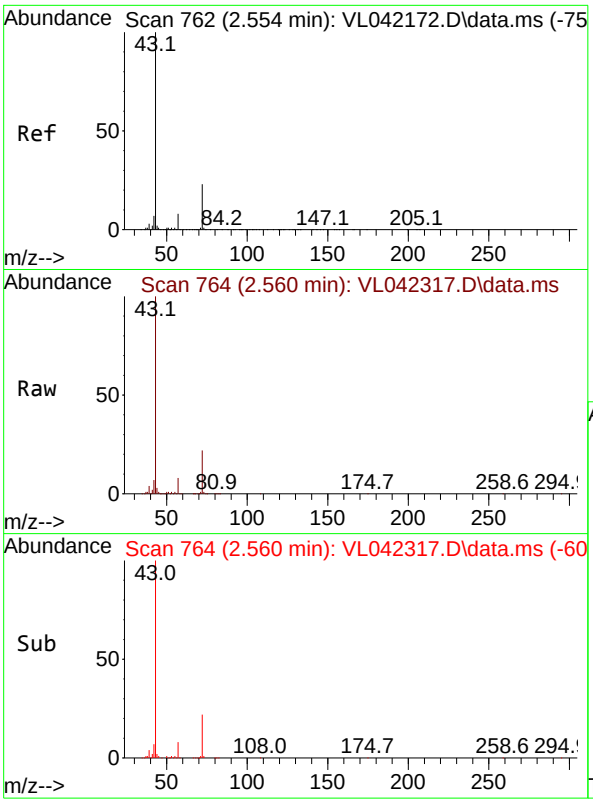




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. 0.013 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion:114 Resp: 422807

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.8 | 20.7 | 31.1 |
| 88 | 17.9 | 15.0 | 22.4 |



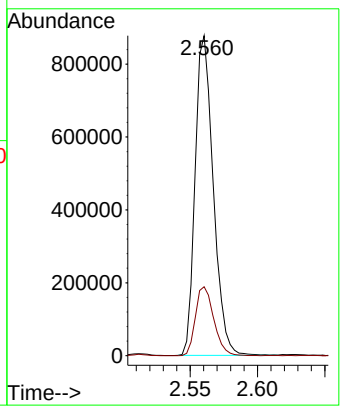


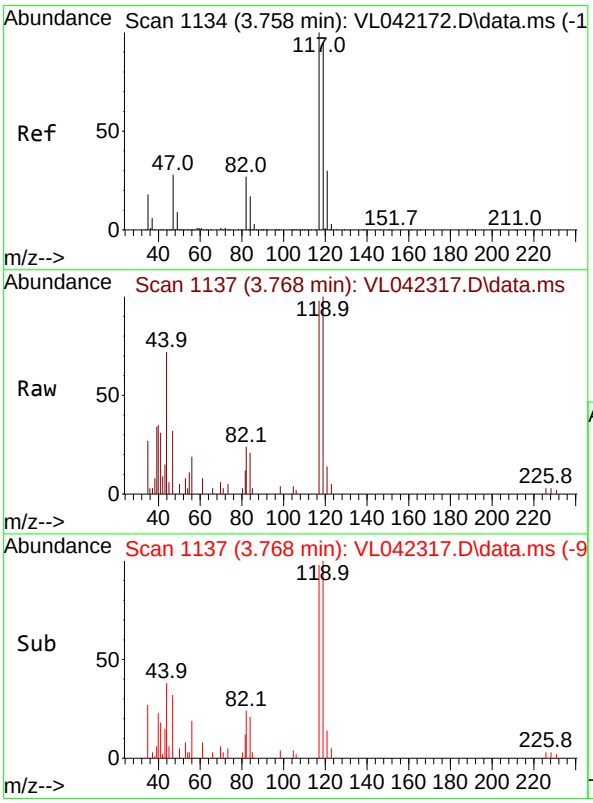

#34
2-Butanone
Concen: 26.834 ppbv
RT: 2.560 min Scan# 7
Delta R.T. 0.006 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025

Tgt Ion: 43 Resp: 822701

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 21.9 | 18.2 | 27.2 |

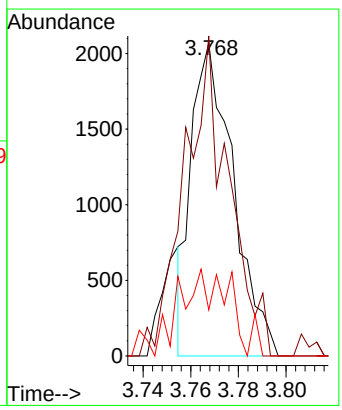


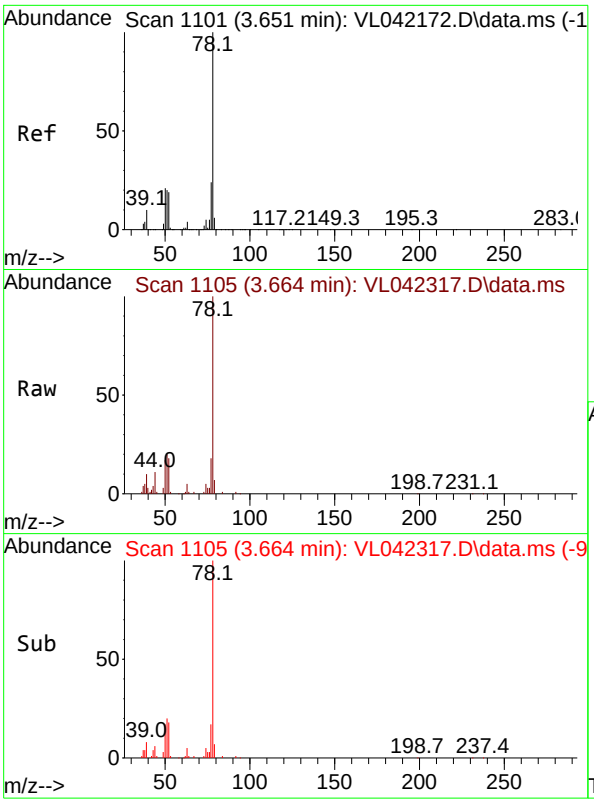




#35
Carbon Tetrachloride
Concen: 0.076 ppbv
RT: 3.768 min Scan# 1137
Delta R.T. 0.009 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion:117 Resp: 2524

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 102.2 | 76.2 | 114.2 |
| 121 | 14.7 | 24.2 | 36.4# |



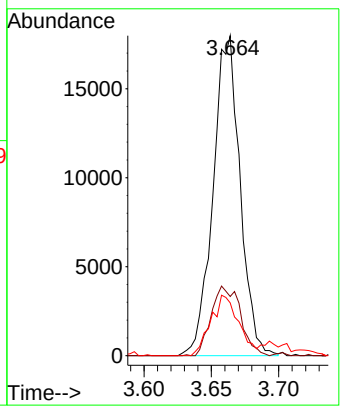


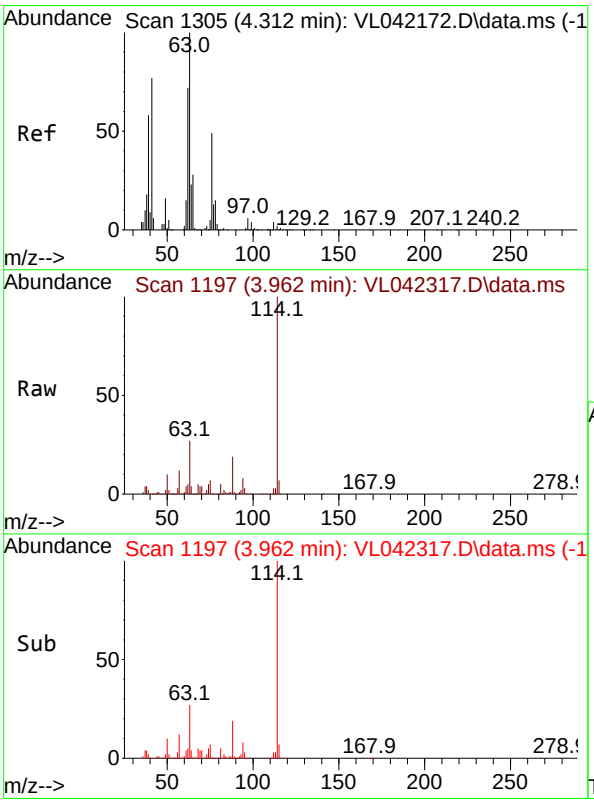

#36
Benzene
Concen: 0.598 ppbv
RT: 3.664 min Scan# 11
Delta R.T. 0.013 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025

Tgt Ion: 78 Resp: 25066

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 18.5 | 19.1 | 28.7# |
| 50 | 16.5 | 16.6 | 24.8# |

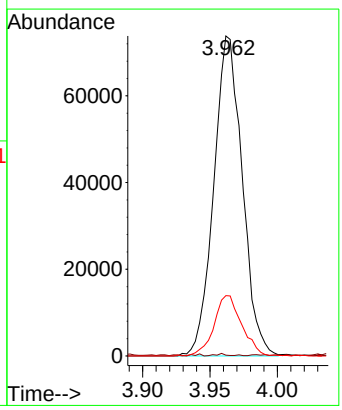


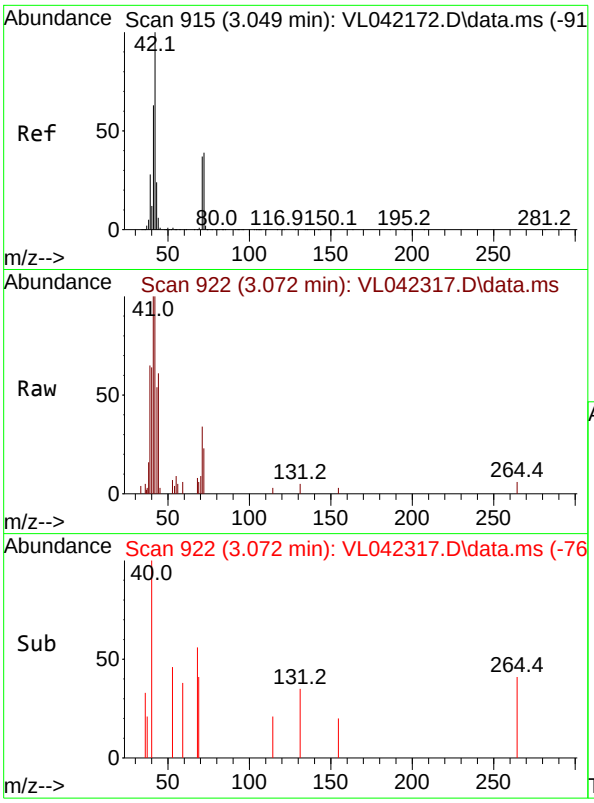




#39
1,2-Dichloropropane
Concen: 7.114 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. -0.350 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion: 63 Resp: 108598

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 0.0 | 61.7 | 92.5# |
| 62 | 18.5 | 57.6 | 86.4# |



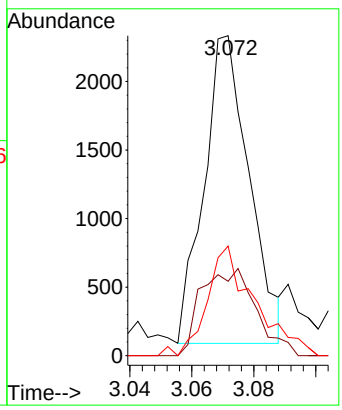


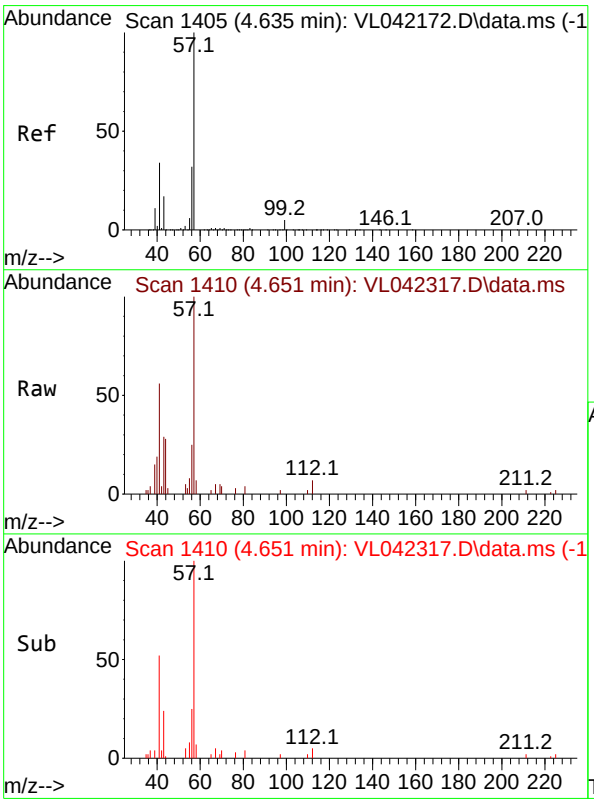

#41
Tetrahydrofuran
Concen: 0.129 ppbv
RT: 3.072 min Scan# 9
Delta R.T. 0.022 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025

Tgt Ion: 42 Resp: 2277

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 0.0 | 31.4 | 47.0# |
| 71 | 37.4 | 30.2 | 45.4 |

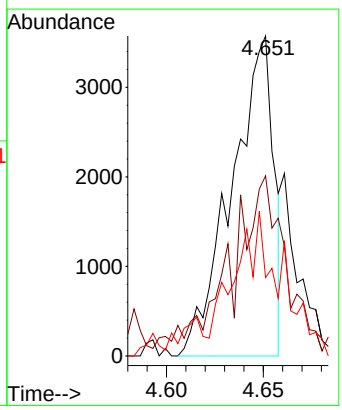


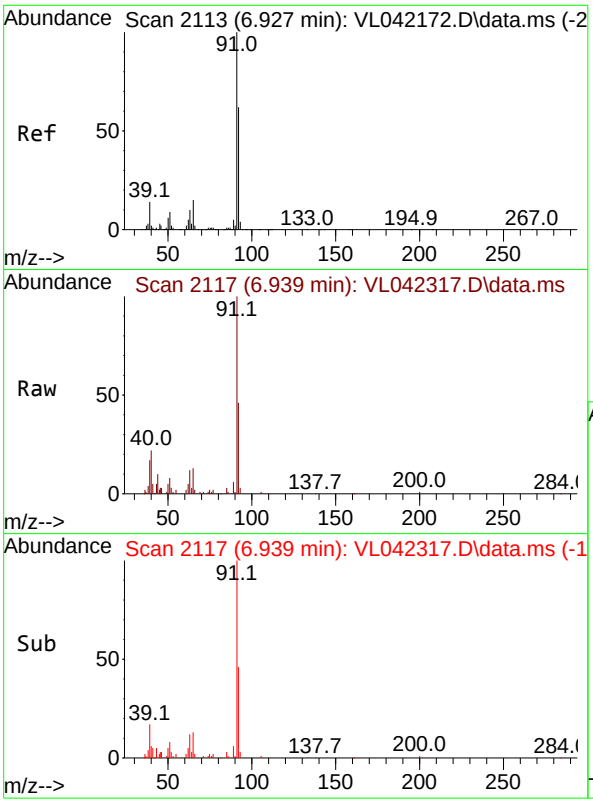




#44
2,2,4-Trimethylpentane
Concen: 0.076 ppbv
RT: 4.651 min Scan# 1410
Delta R.T. 0.016 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion: 57 Resp: 5375

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 81.3 | 26.8 | 40.2# |
| 56 | 59.6 | 25.6 | 38.4# |



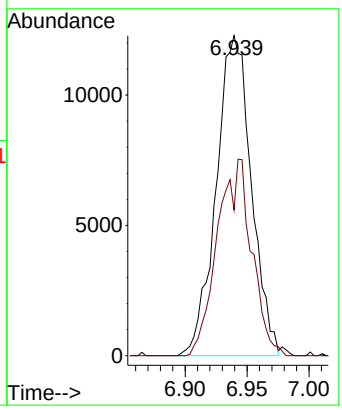


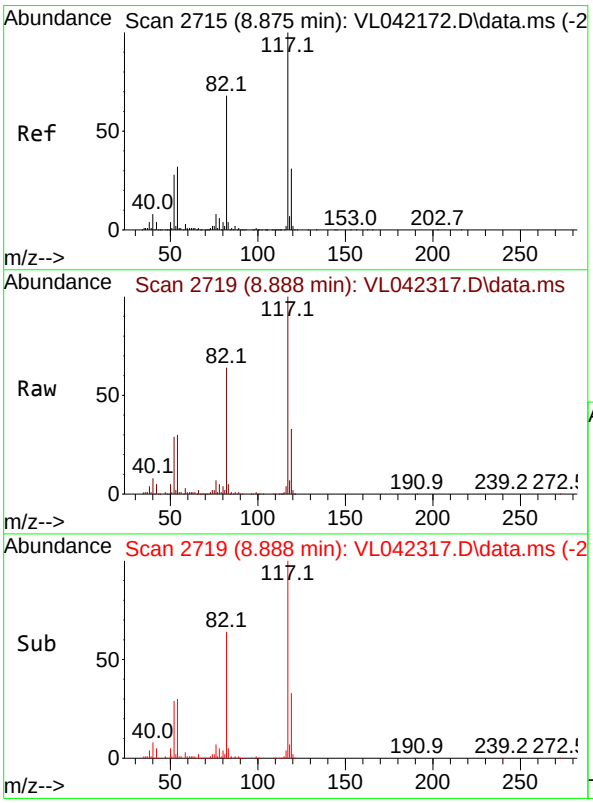

#53
Toluene
Concen: 0.488 ppbv
RT: 6.939 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025

Tgt Ion: 91 Resp: 24232

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 60.1 | 48.4 | 72.6 |

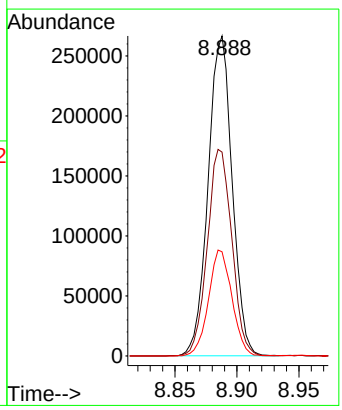


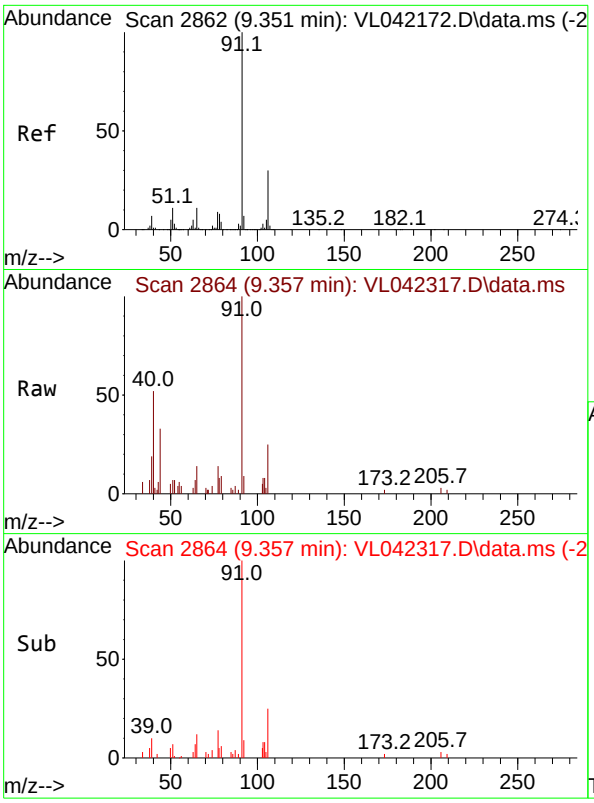




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.013 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion:117 Resp: 360993

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 65.8 | 55.8 | 83.6 |
| 119 | 32.5 | 25.5 | 38.3 |



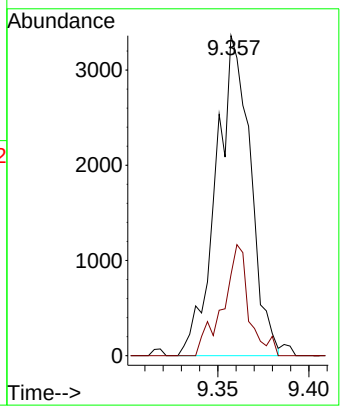


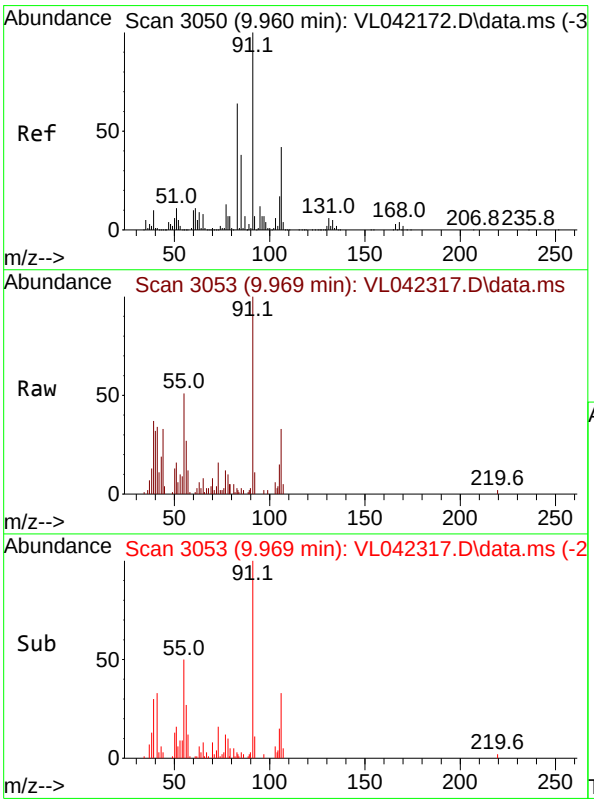

#58
Ethyl Benzene
Concen: 0.069 ppbv
RT: 9.357 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025

Tgt Ion: 91 Resp: 4399

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 25.4 | 24.2 | 36.2 |

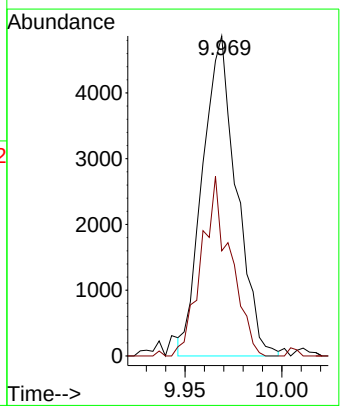


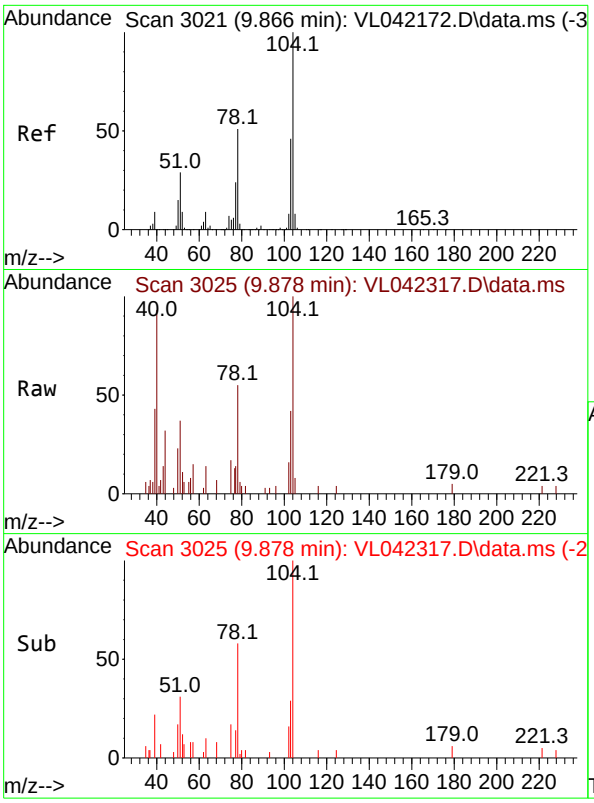




#60
o-Xylene
Concen: 0.116 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. 0.009 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion: 91 Resp: 5940

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 48.4 | 20.8 | 62.5 |



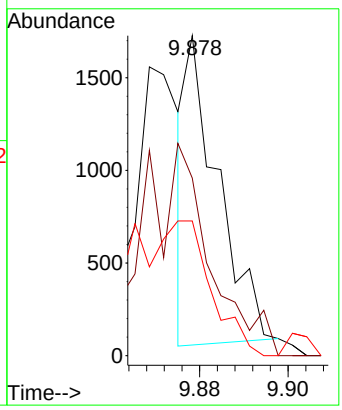


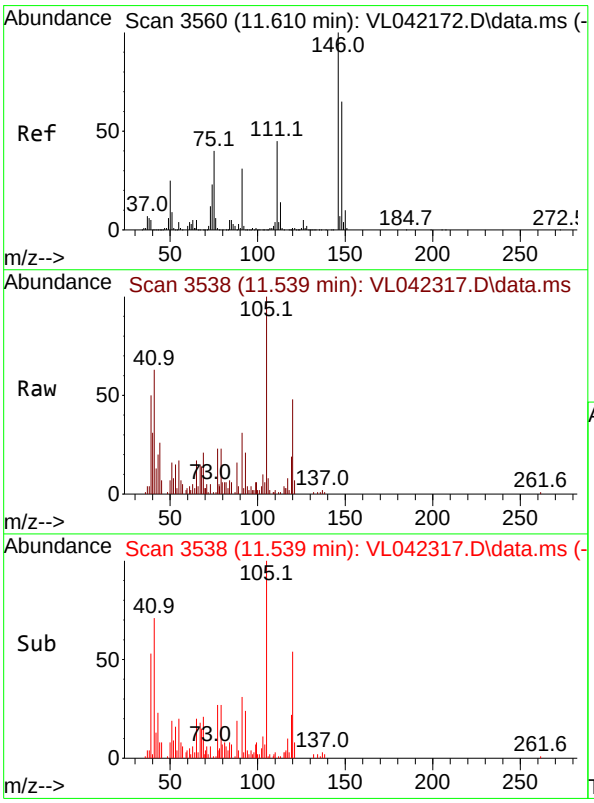

#61
Styrene
Concen: 0.033 ppbv
RT: 9.878 min Scan# 3
Delta R.T. 0.013 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025

Tgt Ion:104 Resp: 838

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 157.9 | 41.8 | 62.6# |
| 103 | 121.6 | 37.0 | 55.4# |

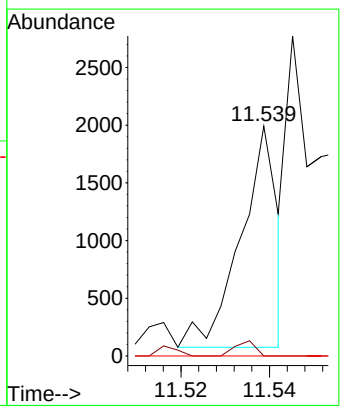


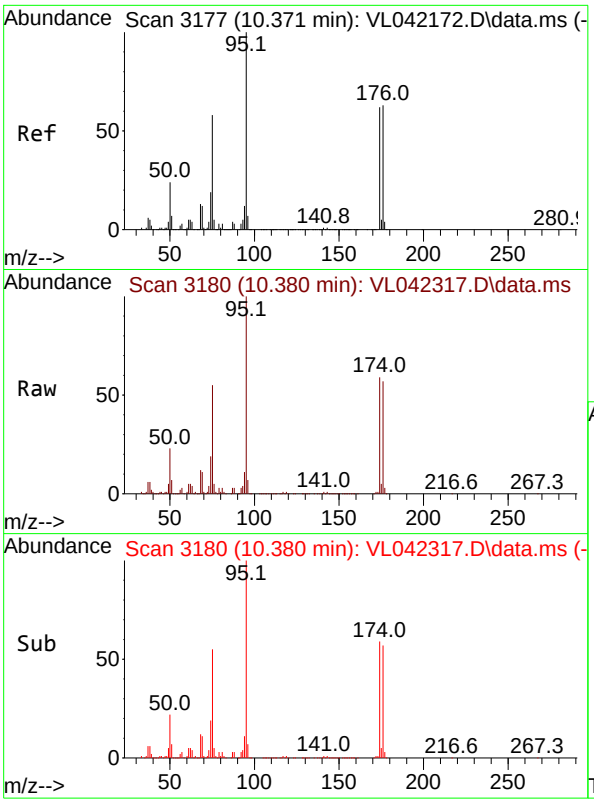




#66
Benzyl Chloride
Concen: 0.147 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.072 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion: 91 Resp: 1109

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 0.0 | 13.8 | 20.6# |
| 128 | 5.2 | 4.5 | 6.7 |



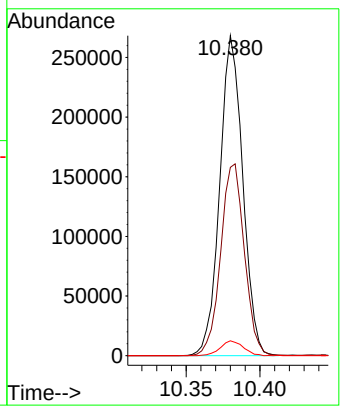


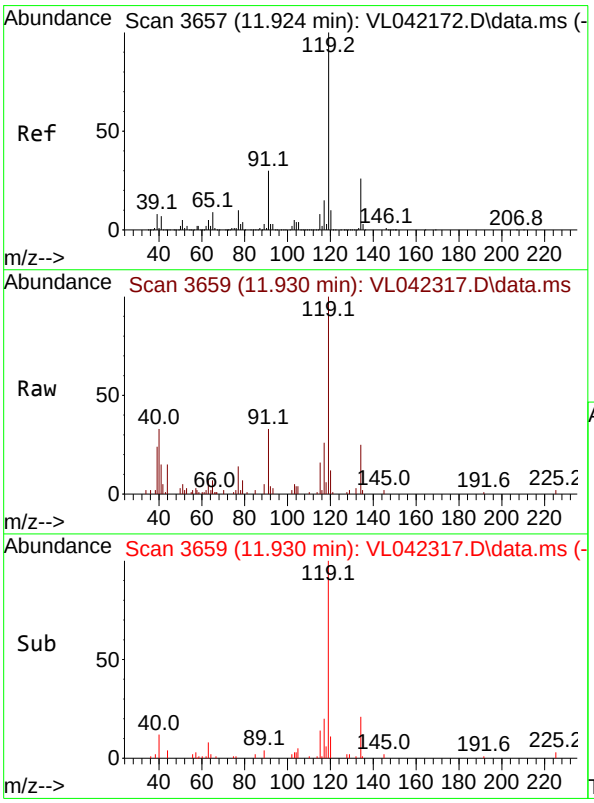

#68
1-Bromo-4-Fluorobenzene
Concen: 9.829 ppbv
RT: 10.380 min Scan# 3
Delta R.T. 0.009 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025

Tgt Ion: 95 Resp: 291371

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 62.0 | 50.6 | 76.0 |
| 175 | 4.7 | 3.8 | 5.6 |

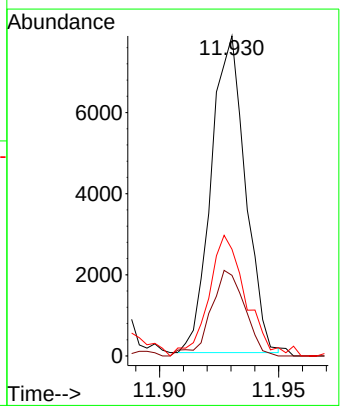


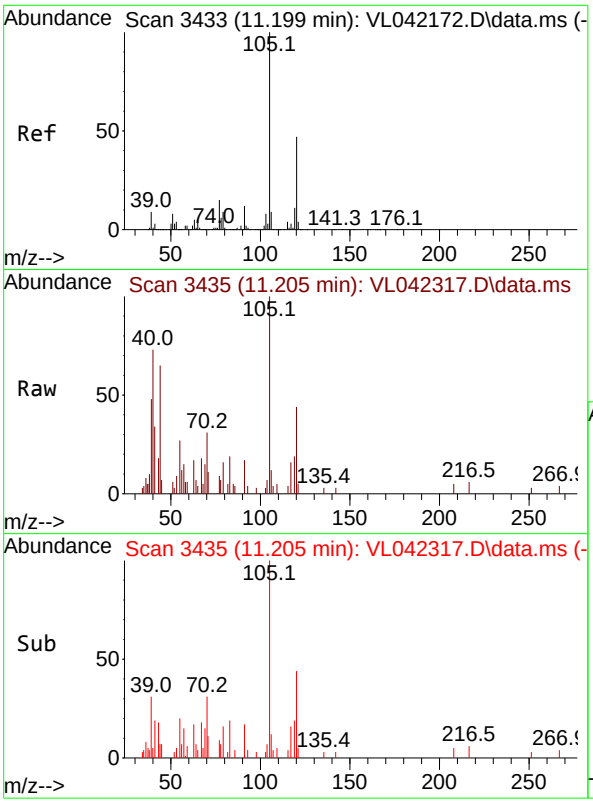




#69
p-Isopropyltoluene
Concen: 0.092 ppbv
RT: 11.930 min Scan# 3659
Delta R.T. 0.006 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion:119 Resp: 7802

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 28.6 | 20.4 | 30.6 |
| 91 | 0.0 | 23.7 | 35.5# |



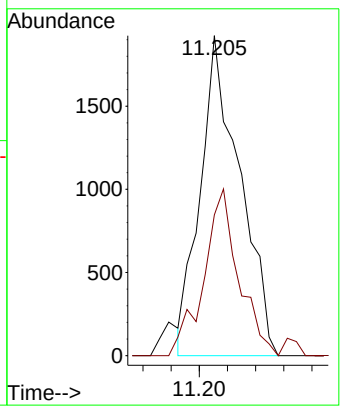


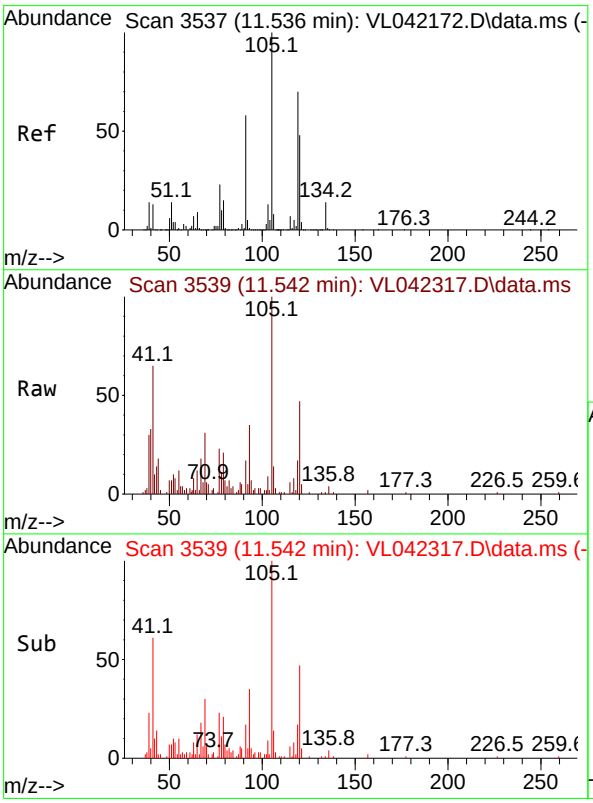

#73
1,3,5-Trimethylbenzene
Concen: 0.034 ppbv
RT: 11.205 min Scan# 34
Delta R.T. 0.006 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025

Tgt Ion:105 Resp: 1875

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.0 | 37.4 | 56.0 |

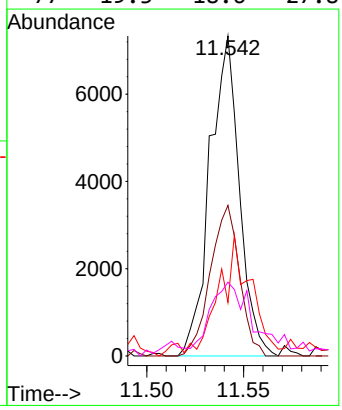


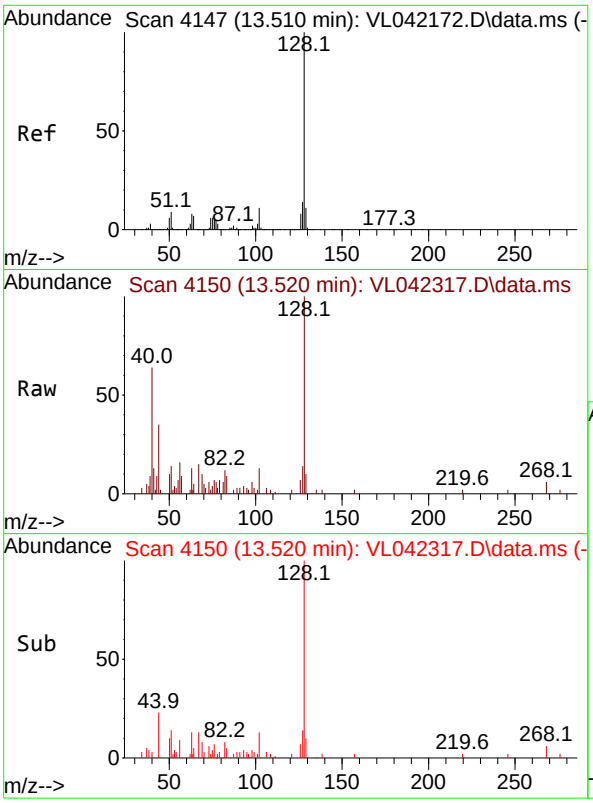




#74
1,2,4-Trimethylbenzene
Concen: 0.121 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.006 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion:105 Resp: 7764

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.1 | 38.6 | 58.0 |
| 91 | 14.6 | 46.2 | 69.2# |
| 77 | 19.3 | 18.6 | 27.8 |



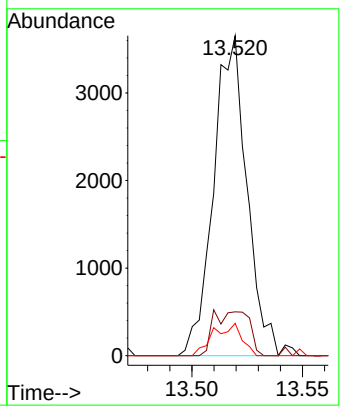



#79
Naphthalene
Concen: 0.054 ppbv
RT: 13.520 min Scan# 4
Delta R.T. 0.009 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025

Tgt Ion:128 Resp: 3811

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.7 | 10.8 | 16.2 |
| 129 | 10.1 | 9.0 | 13.4 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042318.D
Acq On : 11 Apr 2025 13:52
Operator : SY/MD
Sample : Q1665-03DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025DUP

Quant Time: Apr 11 22:59:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 2.787 | 49 | 183054 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.958 | 114 | 442590 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.881 | 117 | 380933 | 10.000 | ppbv | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95 | 304733 | 9.741 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 97.400% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.499 | 85 | 11308 | 0.418 | ppbv | | 97 |
| 3) Chlorodifluoromethane | 1.466 | 51 | 98497 | 3.567 | ppbv | # | 62 |
| 4) Chloromethane | 1.531 | 50 | 6464 | 0.585 | ppbv | # | 84 |
| 9) Propene | 1.887 | 41 | 122482 | 9.678 | ppbv | | 88 |
| 10) Heptane | 4.981 | 43 | 4536 | 0.135 | ppbv | # | 71 |
| 11) Trichlorofluoromethane | 1.877 | 101 | 5756 | 0.219 | ppbv | | 90 |
| 12) 1,1,2-Trichlorotrifluo... | 2.140 | 101 | 1475 | 0.068 | ppbv | | 88 |
| 13) Ethanol | 1.722 | 45 | 1578950 | 1319.793 | ppbv | | 94 |
| 15) Acetone | 1.832 | 43 | 2101760 | 82.096 | ppbv | # | 77 |
| 16) 1,3-Butadiene | 1.599 | 39 | 7285 | 0.583 | ppbv | # | 34 |
| 17) tert-Butyl alcohol | 1.887 | 59 | 49370 | 1.548 | ppbv | | 95 |
| 19) Isopropyl Alcohol | 1.887 | 45 | 1201240 | 83.161 | ppbv | # | 60 |
| 20) Methylene Chloride | 2.059 | 84 | 15544 | 1.630 | ppbv | | 90 |
| 21) Allyl Chloride | 2.042 | 41 | 5085 | 0.282 | ppbv | # | 22 |
| 23) Vinyl Acetate | 2.453 | 43 | 8887 | 0.802 | ppbv | # | 79 |
| 25) Ethyl Acetate | 2.835 | 43 | 171845 | 2.586 | ppbv | | 98 |
| 26) Hexane | 2.826 | 57 | 69684 | 2.715 | ppbv | | 93 |
| 27) Carbon Disulfide | 2.149 | 76 | 1389 | 0.050 | ppbv | # | 39 |
| 29) Chloroform | 2.848 | 83 | 51580 | 1.373 | ppbv | | 99 |
| 31) cis-1,2-Dichloroethene | 2.839 | 61 | 15128 | 0.581 | ppbv | # | 25 |
| 34) 2-Butanone | 2.557 | 43 | 853001 | 26.579 | ppbv | | 99 |
| 35) Carbon Tetrachloride | 3.768 | 117 | 2172 | 0.063 | ppbv | # | 55 |
| 36) Benzene | 3.654 | 78 | 26349 | 0.601 | ppbv | | 94 |
| 39) 1,2-Dichloropropane | 3.958 | 63 | 115306 | 7.216 | ppbv | # | 23 |
| 41) Tetrahydrofuran | 3.065 | 42 | 2536 | 0.137 | ppbv | # | 58 |
| 53) Toluene | 6.936 | 91 | 13995 | 0.269 | ppbv | # | 33 |
| 58) Ethyl Benzene | 9.357 | 91 | 3973 | 0.059 | ppbv | | 91 |
| 59) m/p-Xylene | 9.545 | 91 | 3275 | 0.061 | ppbv | # | 31 |
| 60) o-Xylene | 9.962 | 91 | 4830 | 0.089 | ppbv | | 76 |
| 61) Styrene | 9.869 | 104 | 2313 | 0.086 | ppbv | # | 90 |
| 66) Benzyl Chloride | 11.532 | 91 | 1364 | 0.172 | ppbv | # | 69 |
| 69) p-Isopropyltoluene | 11.927 | 119 | 8784 | 0.098 | ppbv | # | 65 |
| 74) 1,2,4-Trimethylbenzene | 11.535 | 105 | 8971 | 0.132 | ppbv | # | 75 |

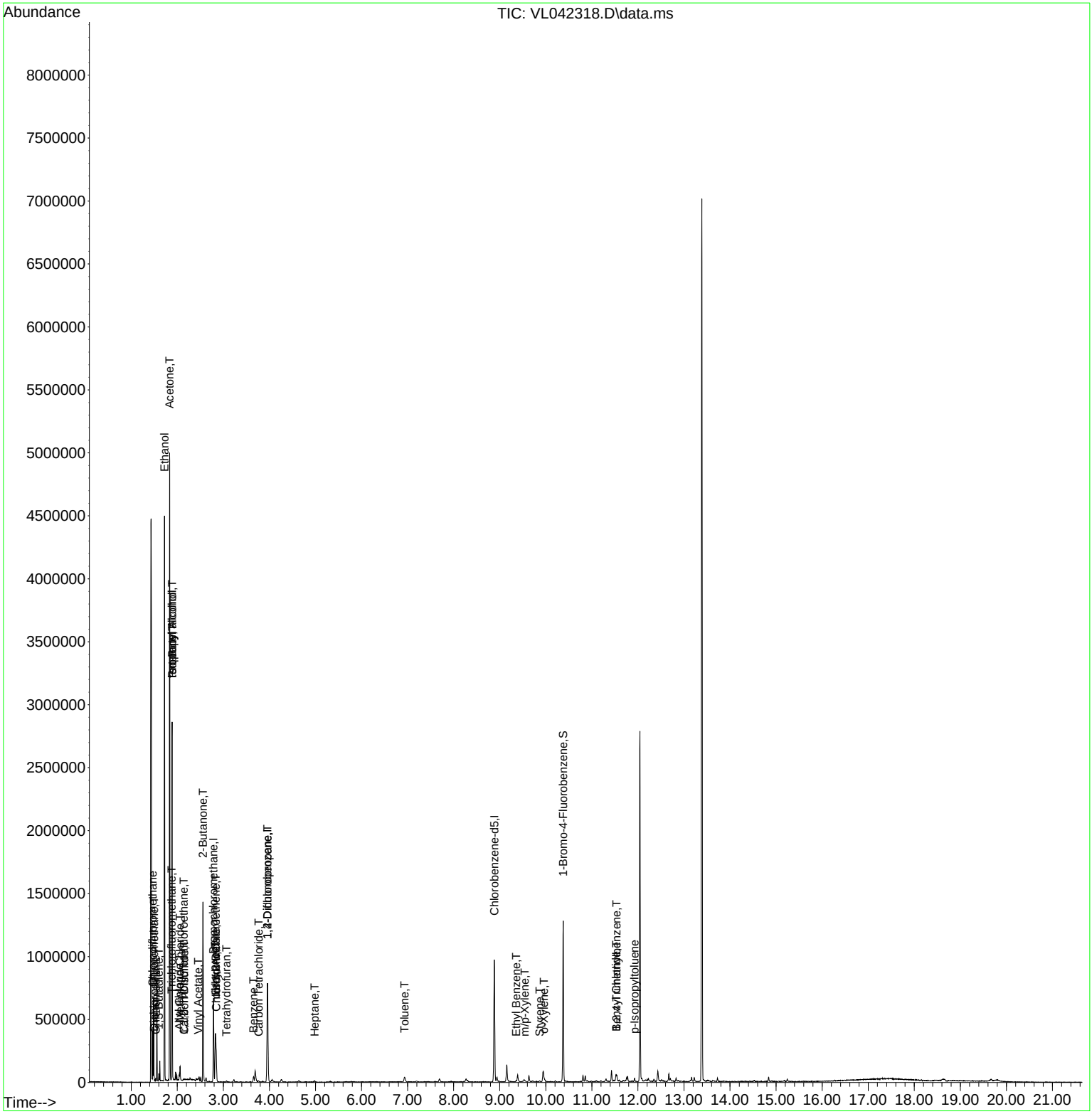
(#) = qualifier out of range (m) = manual integration (+) = signals summed

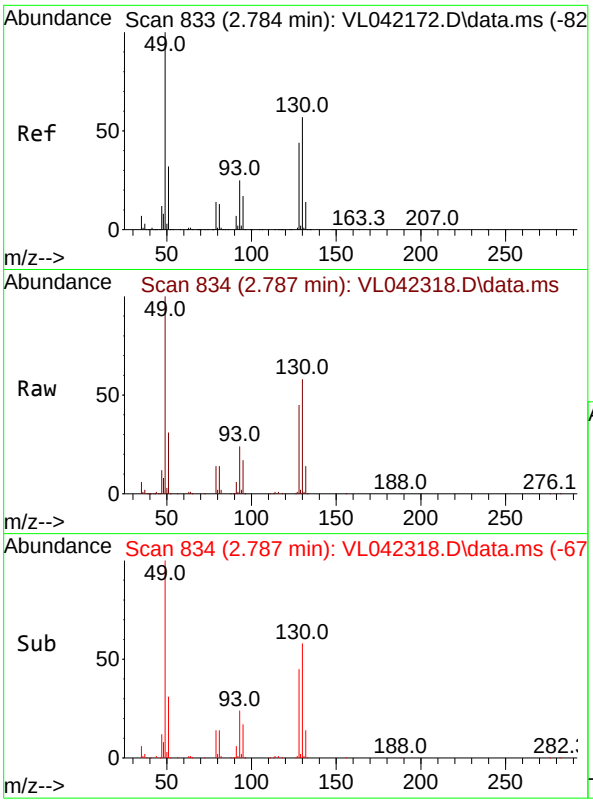
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042318.D
Acq On : 11 Apr 2025 13:52
Operator : SY/MD
Sample : Q1665-03DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025DUP

Quant Time: Apr 11 22:59:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration



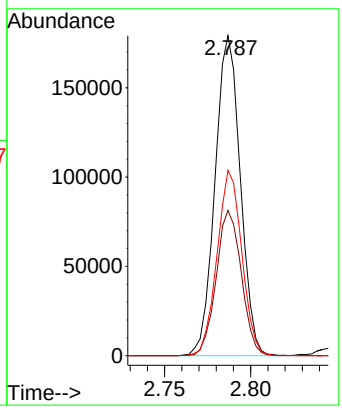


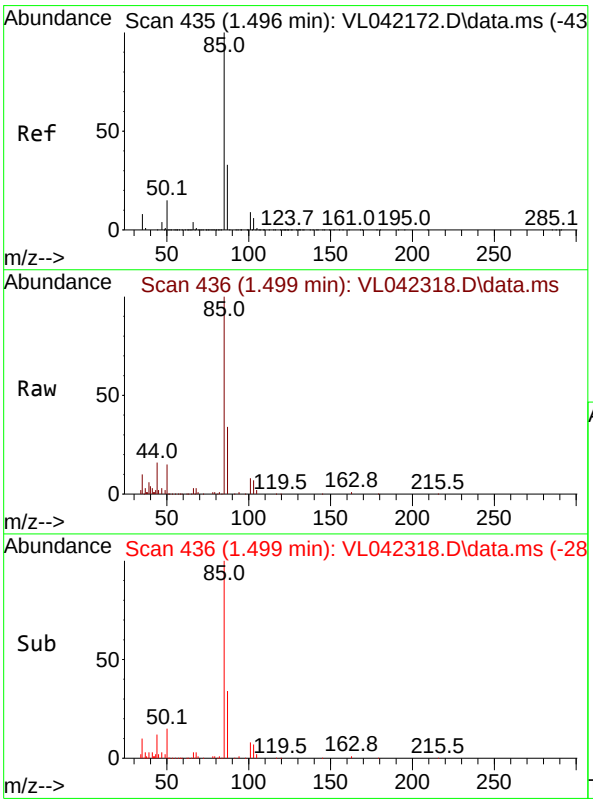

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025DUP

Tgt Ion: 49 Resp: 183054

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 45.1 | 22.9 | 68.5 |
| 130 | 56.7 | 28.8 | 86.4 |

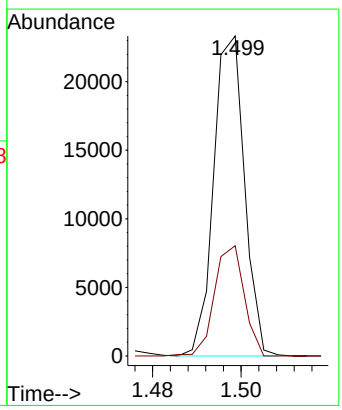


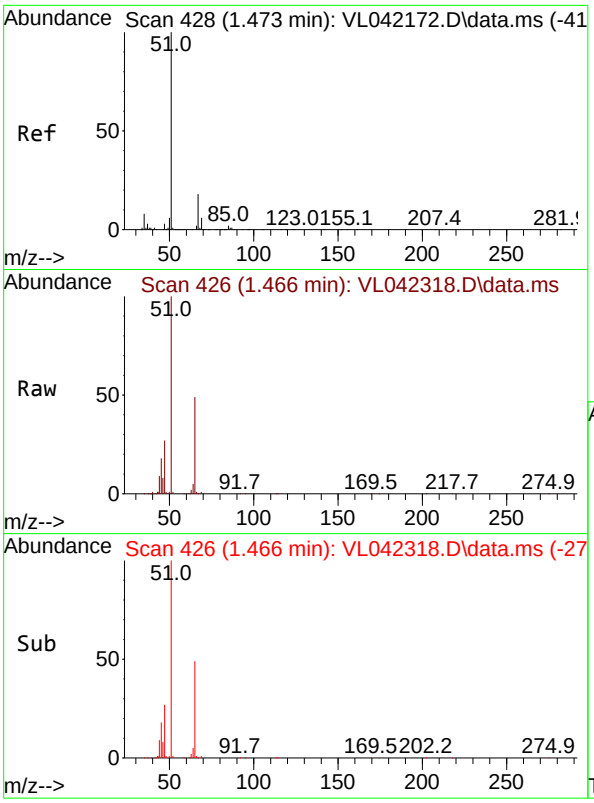




#2
Dichlorodifluoromethane
Concen: 0.418 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

Tgt Ion: 85 Resp: 11308

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 34.5 | 26.1 | 39.1 |



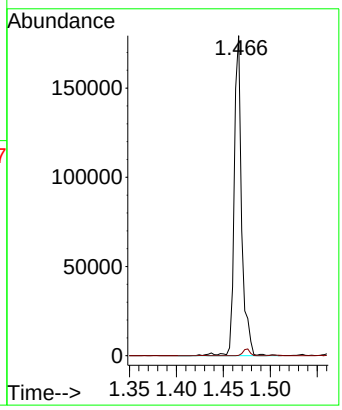


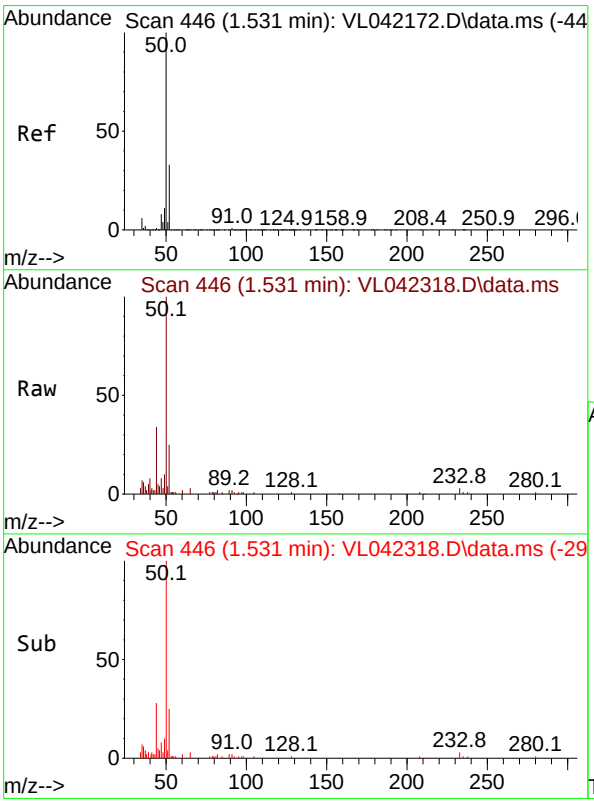

#3
Chlorodifluoromethane
Concen: 3.567 ppbv
RT: 1.466 min Scan# 4
Delta R.T. -0.007 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025DUP

Tgt Ion: 51 Resp: 98497

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 1.9 | 15.0 | 22.6# |

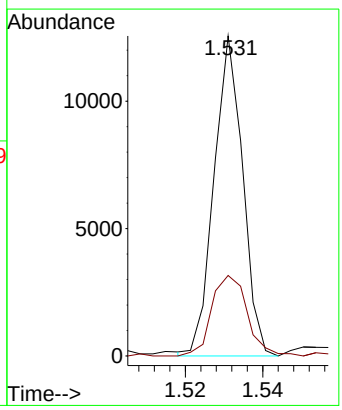


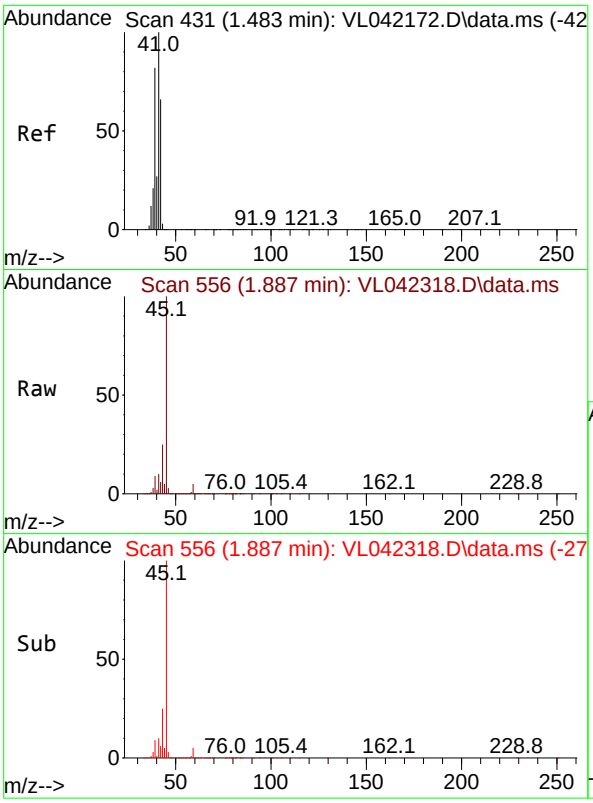




#4
Chloromethane
Concen: 0.585 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

Tgt Ion: 50 Resp: 6464

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 23.7 | 26.1 | 39.1# |



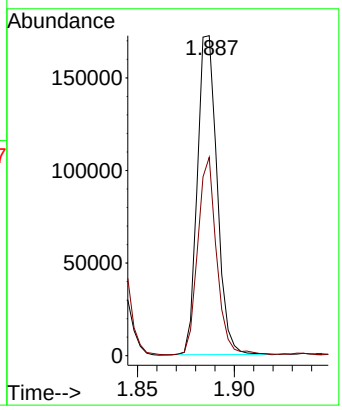


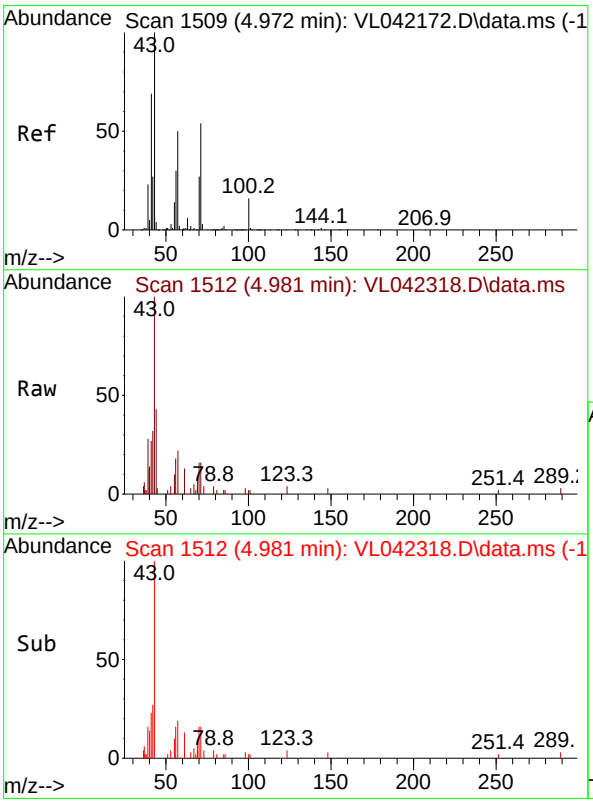

#9
Propene
Concen: 9.678 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.404 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025DUP

Tgt Ion: 41 Resp: 122482

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 59.2 | 55.4 | 83.2 |

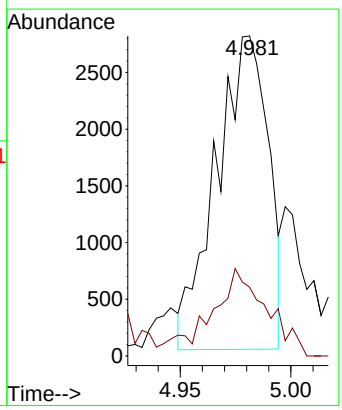


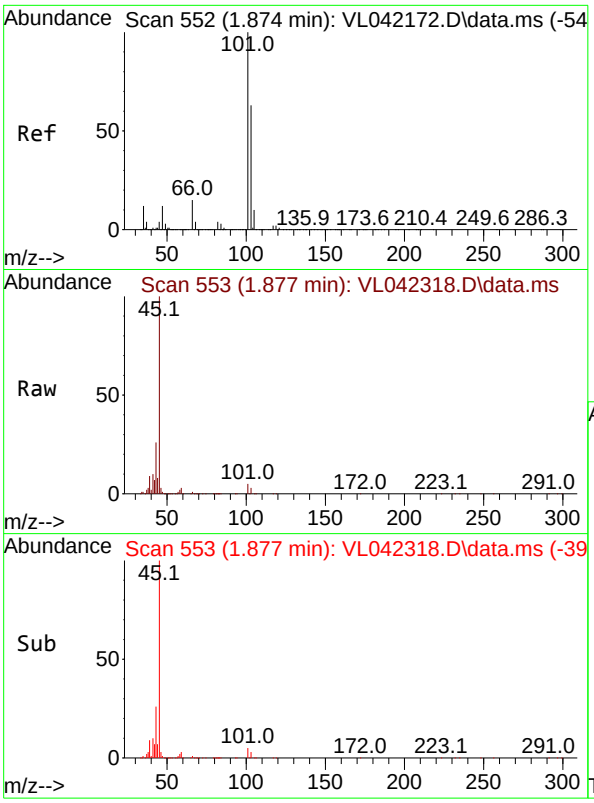




#10
Heptane
Concen: 0.135 ppbv
RT: 4.981 min Scan# 1512
Delta R.T. 0.009 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

Tgt Ion: 43 Resp: 4536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 29.3 | 39.4 | 59.2# |



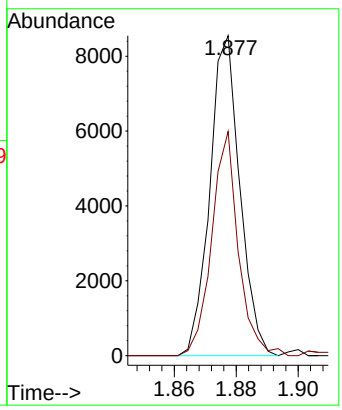


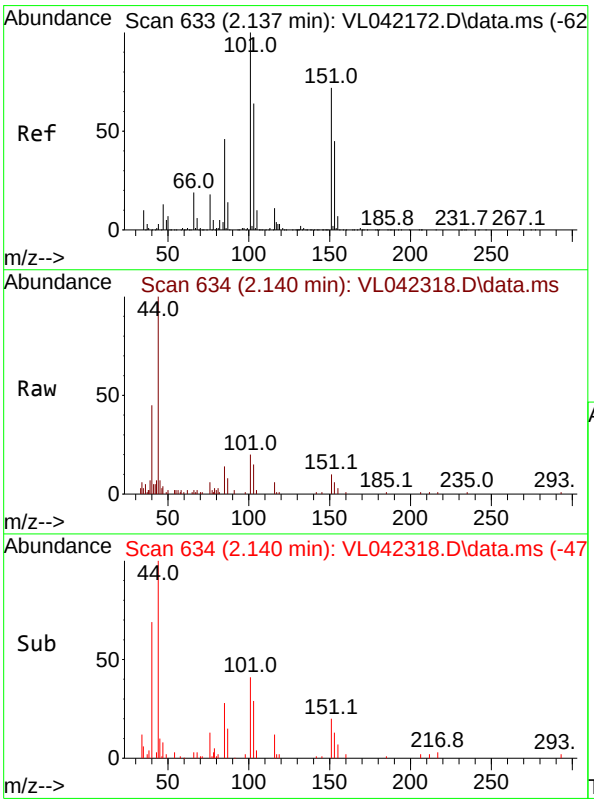

#11
Trichlorofluoromethane
Concen: 0.219 ppbv
RT: 1.877 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025DUP

Tgt Ion:101 Resp: 5756

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 70.1 | 50.2 | 75.2 |

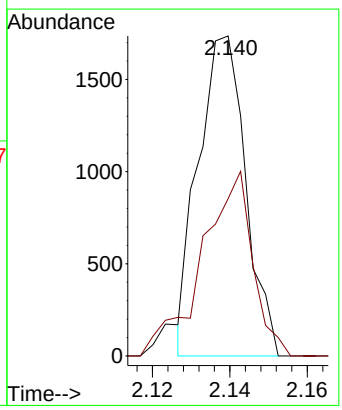


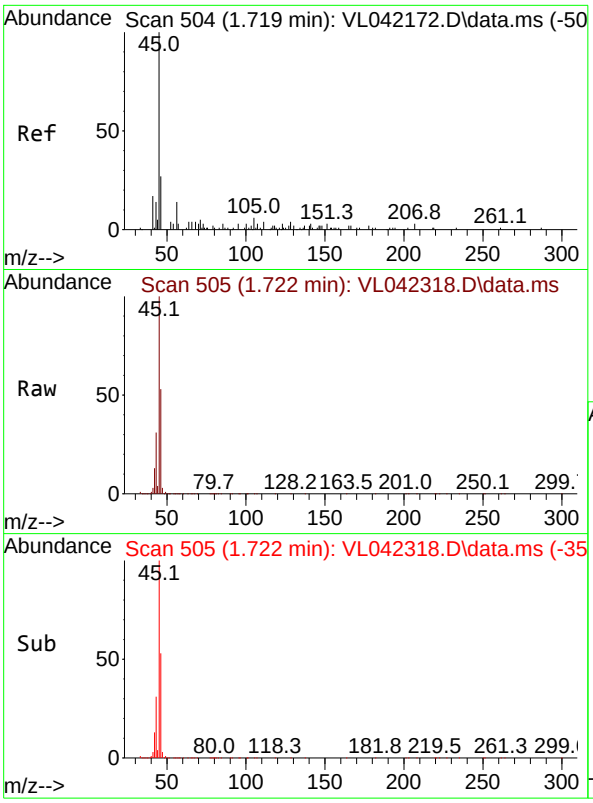




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.068 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

Tgt Ion:101 Resp: 1475

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 61.8 | 57.1 | 85.7 |



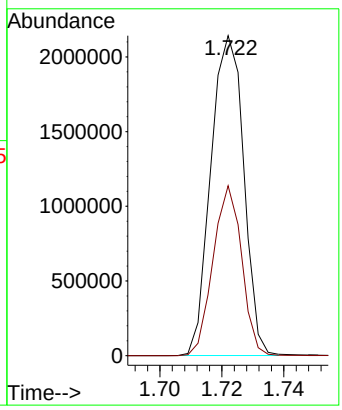


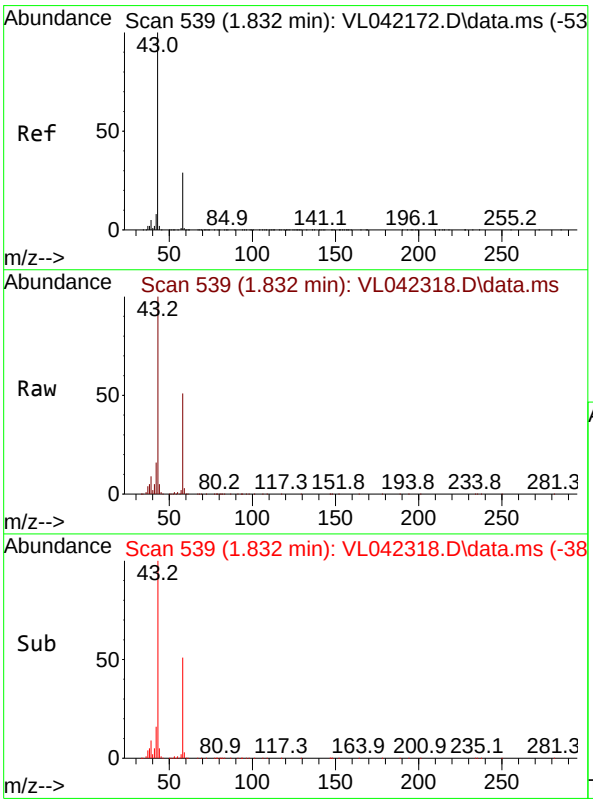

#13
Ethanol
Concen: 1319.793 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025DUP

Tgt Ion: 45 Resp: 1578950

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 46.4 | 20.2 | 80.8 |

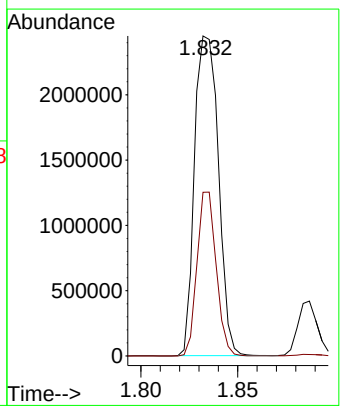


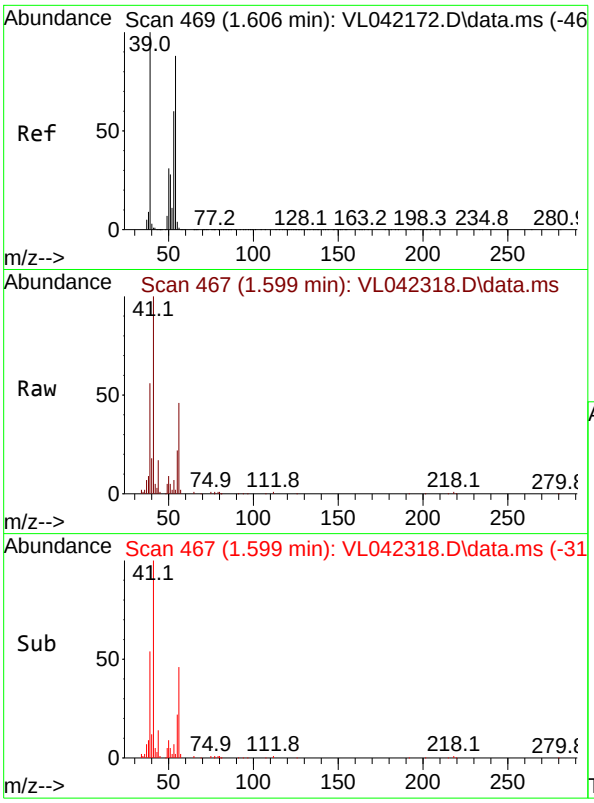




#15
Acetone
Concen: 82.096 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.000 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

Tgt Ion: 43 Resp: 2101760

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 41.3 | 23.2 | 34.8# |



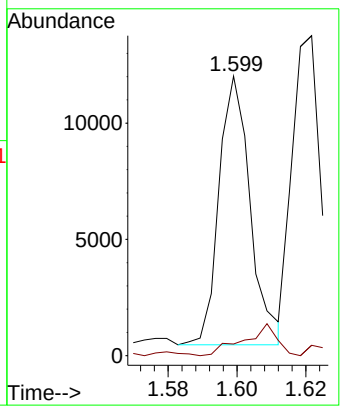


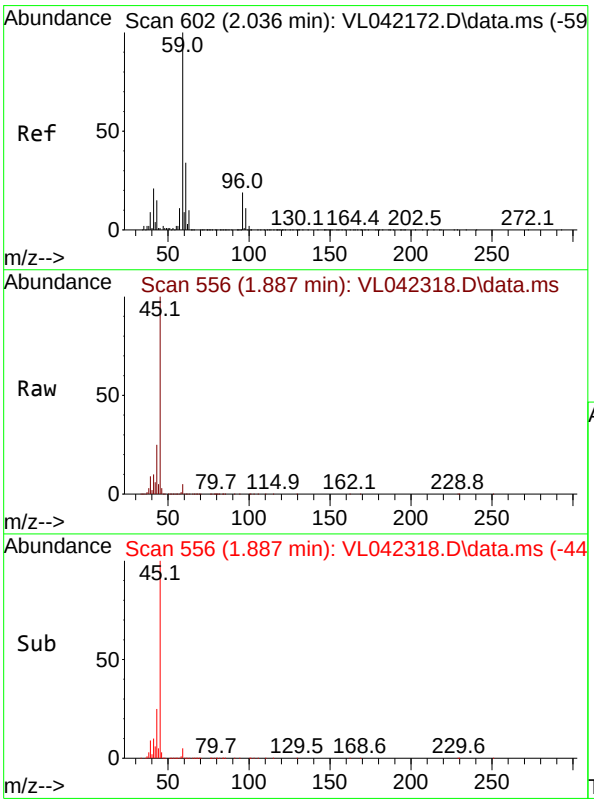

#16
1,3-Butadiene
Concen: 0.583 ppbv
RT: 1.599 min Scan# 4
Delta R.T. -0.007 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025DUP

Tgt Ion: 39 Resp: 7285

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 19.4 | 60.7 | 91.1# |

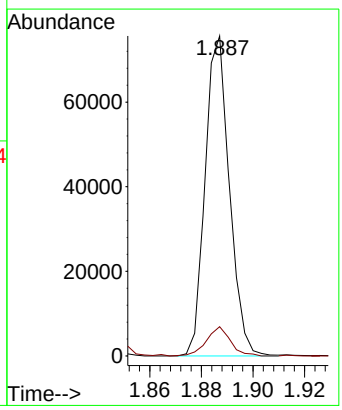


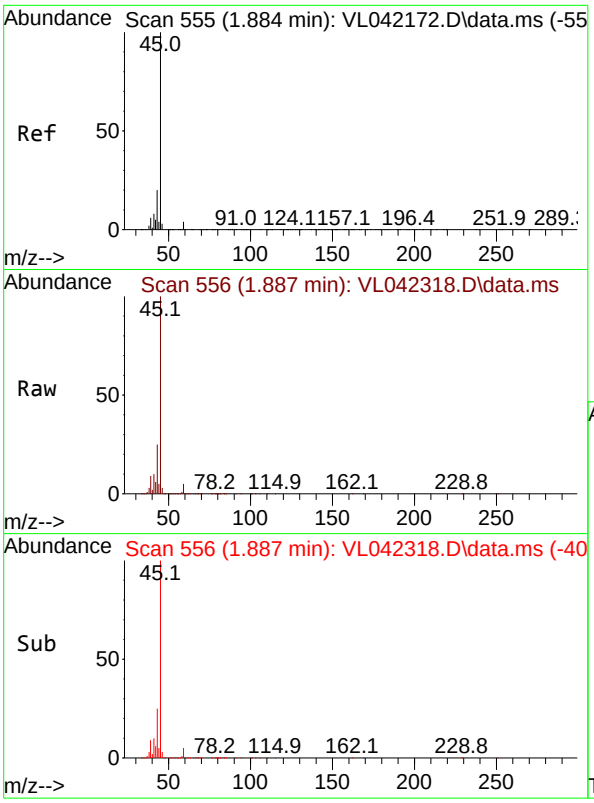




#17
tert-Butyl alcohol
Concen: 1.548 ppbv
RT: 1.887 min Scan# 556
Delta R.T. -0.149 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

Tgt Ion: 59 Resp: 49370

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 9.1 | 8.9 | 13.3 |



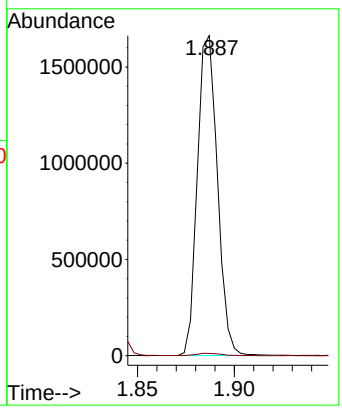


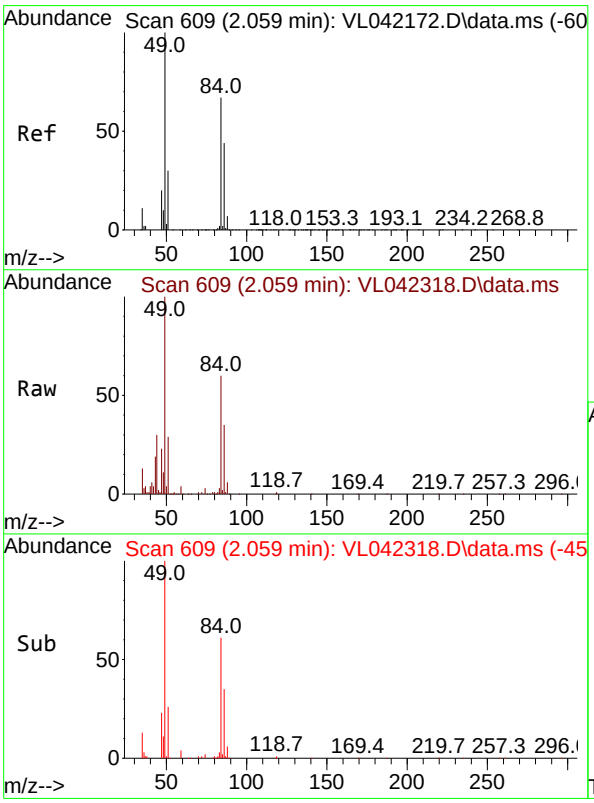

#19
Isopropyl Alcohol
Concen: 83.161 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025DUP

Tgt Ion: 45 Resp: 1201240

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 72.3 | 36.9 | 55.3# |

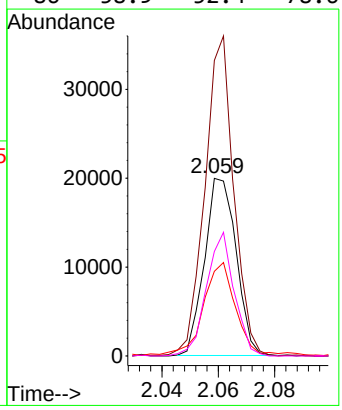


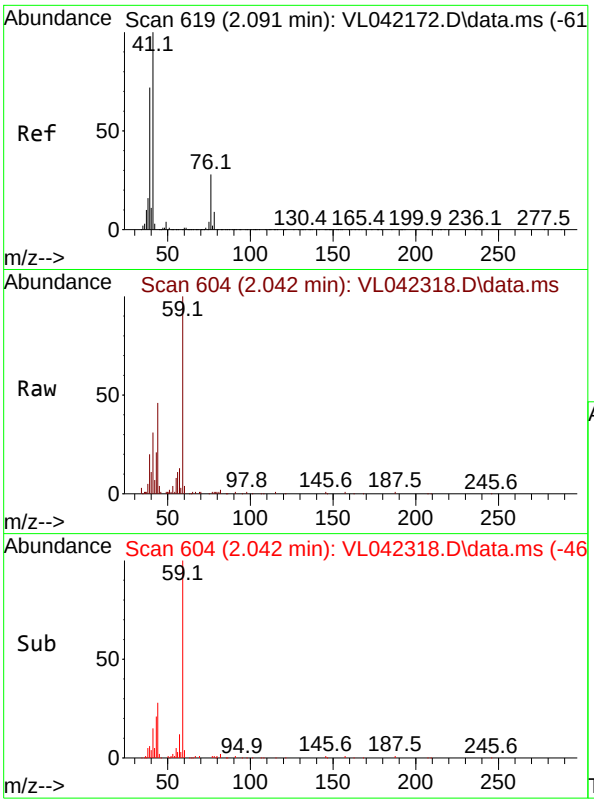




#20
Methylene Chloride
Concen: 1.630 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

Tgt Ion: 84 Resp: 15544

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 166.8 | 120.2 | 180.4 |
| 51 | 46.4 | 37.4 | 56.0 |
| 86 | 58.9 | 52.4 | 78.6 |



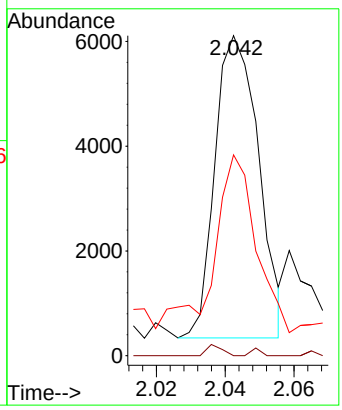


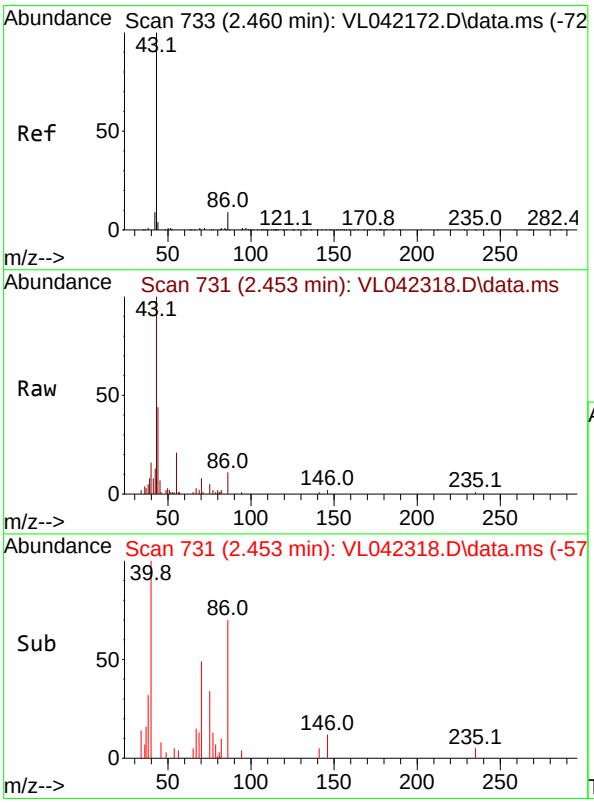

#21
Allyl Chloride
Concen: 0.282 ppbv
RT: 2.042 min Scan# 6
Delta R.T. -0.049 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025DUP

Tgt Ion: 41 Resp: 5085

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 1.8 | 24.1 | 36.1# |
| 39 | 0.0 | 61.1 | 91.7# |

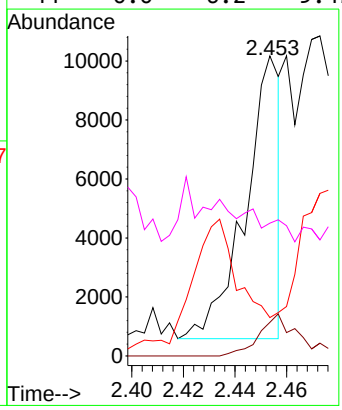


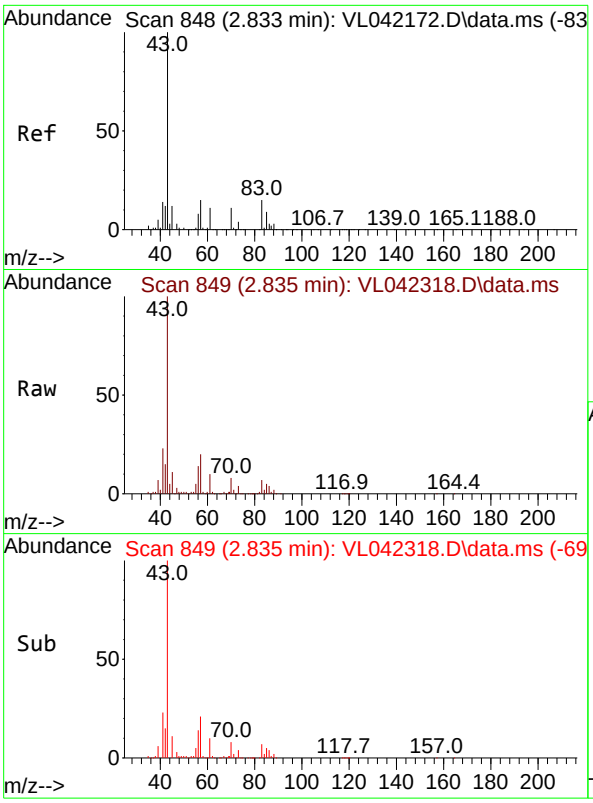




#23
Vinyl Acetate
Concen: 0.802 ppbv
RT: 2.453 min Scan# 731
Delta R.T. -0.007 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

Tgt Ion: 43 Resp: 8887

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.0 | 5.5 | 8.3# |
| 42 | 1.3 | 8.6 | 13.0# |
| 44 | 0.0 | 6.2 | 9.4# |



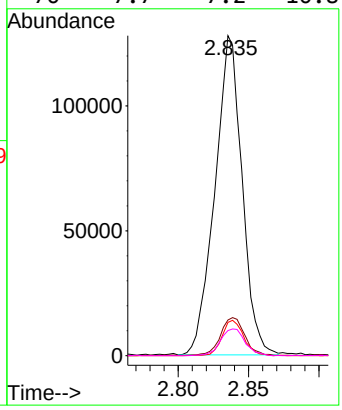


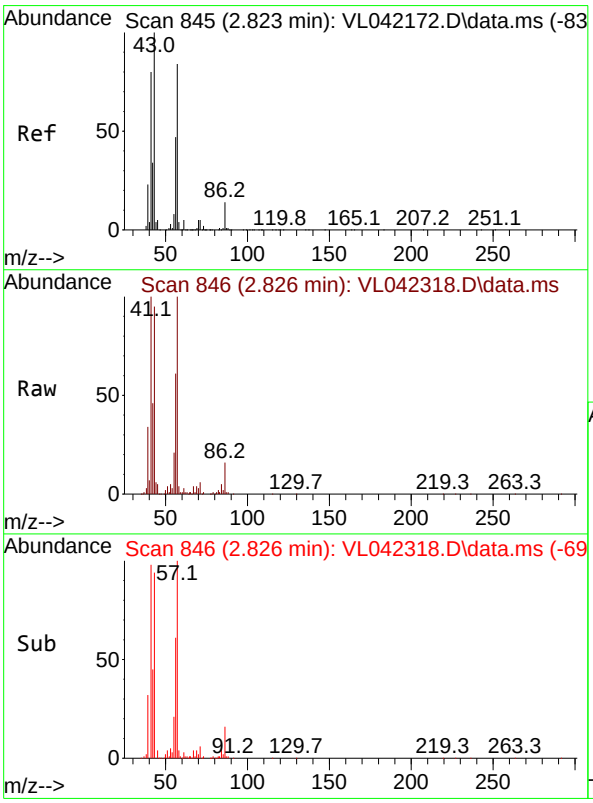

#25
Ethyl Acetate
Concen: 2.586 ppbv
RT: 2.835 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025DUP

Tgt Ion: 43 Resp: 171845

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 11.0 | 8.2 | 12.2 |
| 61 | 8.9 | 7.3 | 10.9 |
| 70 | 7.7 | 7.2 | 10.8 |

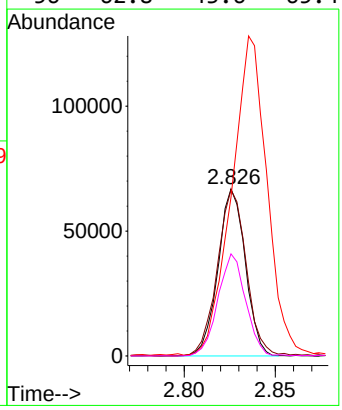


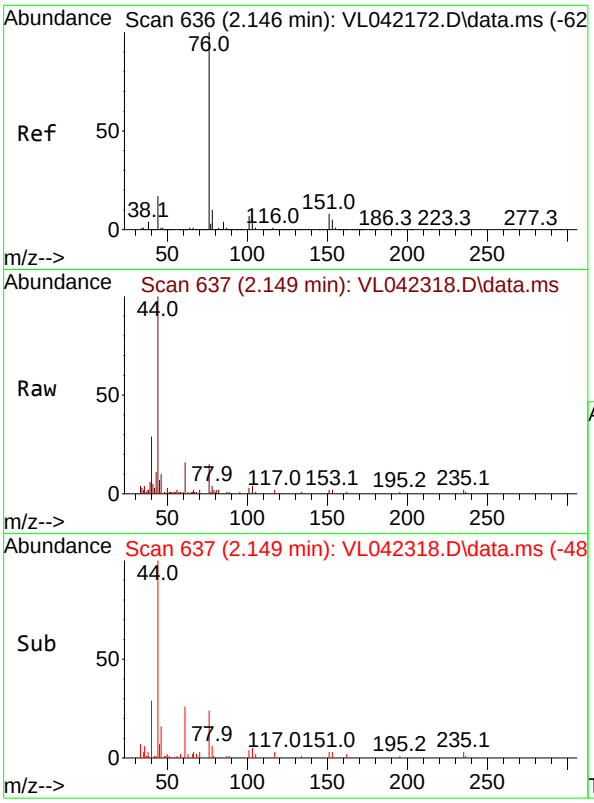




#26
Hexane
Concen: 2.715 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.003 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

Tgt Ion: 57 Resp: 69684

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 105.3 | 76.6 | 114.8 |
| 43 | 249.9 | 207.8 | 311.8 |
| 56 | 62.8 | 43.6 | 65.4 |



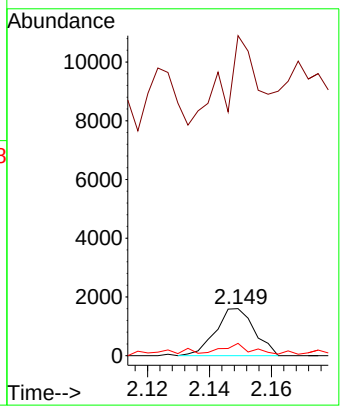


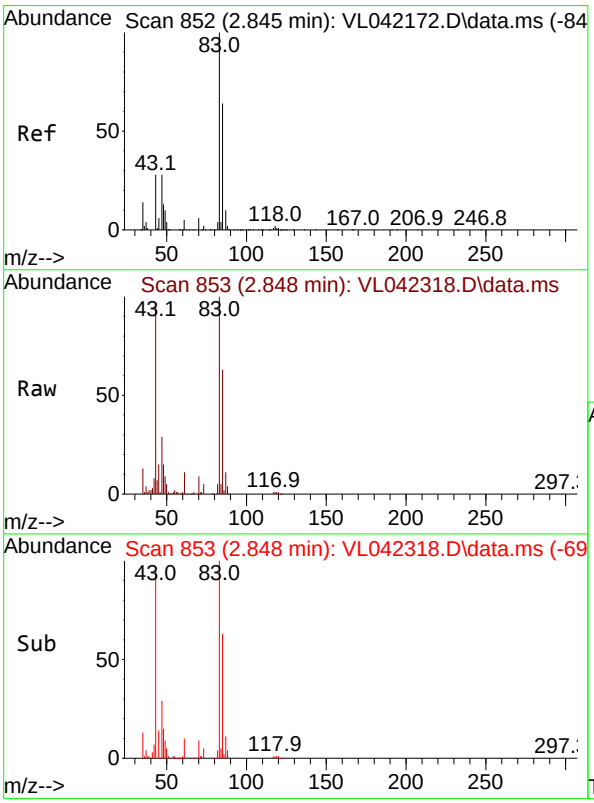

#27
Carbon Disulfide
Concen: 0.050 ppbv
RT: 2.149 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025DUP

Tgt Ion: 76 Resp: 1389

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 0.0 | 14.7 | 22.1# |
| 78 | 46.8 | 9.3 | 13.9# |

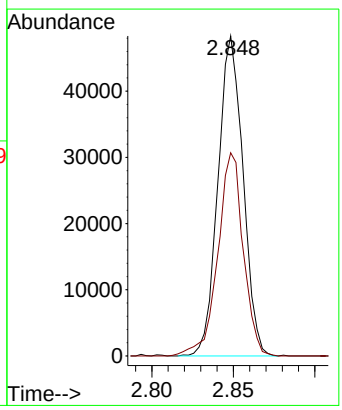


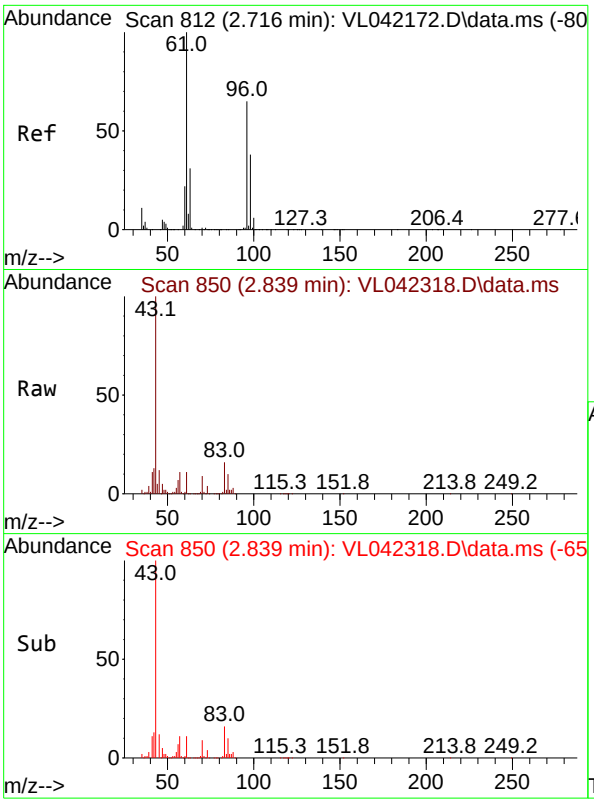




#29
Chloroform
Concen: 1.373 ppbv
RT: 2.848 min Scan# 853
Delta R.T. 0.003 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

Tgt Ion: 83 Resp: 51580

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.5 | 51.4 | 77.2 |



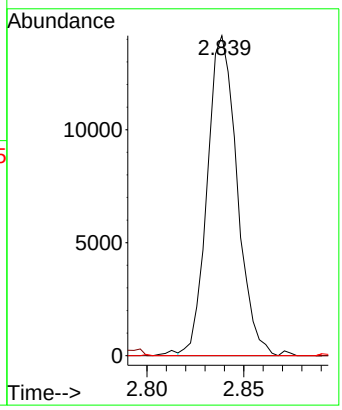


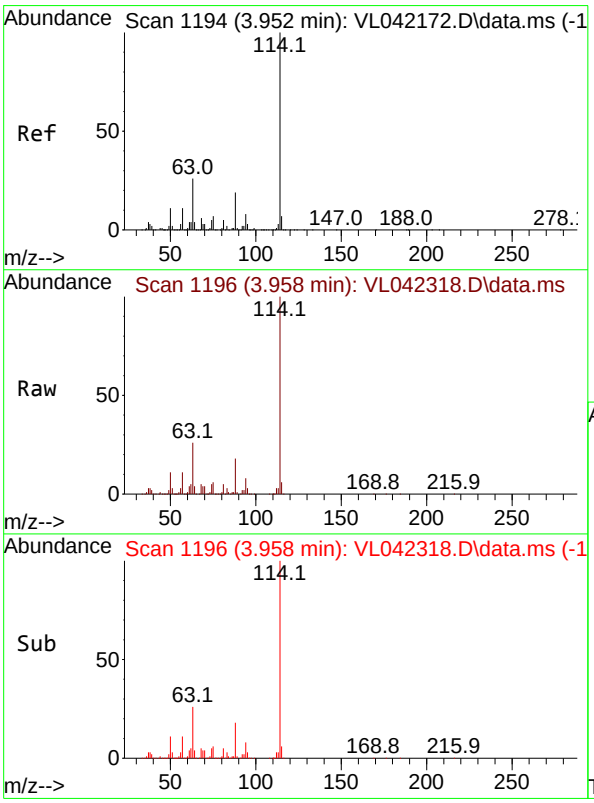

#31
cis-1,2-Dichloroethene
Concen: 0.581 ppbv
RT: 2.839 min Scan# 8
Delta R.T. 0.123 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025DUP

Tgt Ion: 61 Resp: 15128

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 0.0 | 51.8 | 77.8# |
| 98 | 0.0 | 30.6 | 46.0# |

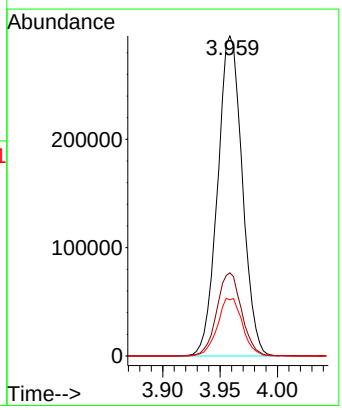


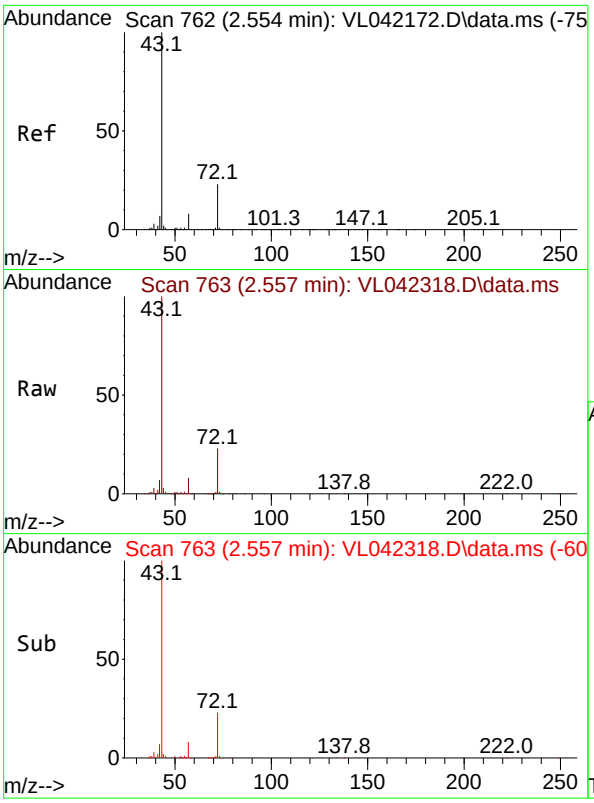




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.958 min Scan# 1196
Delta R.T. 0.006 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

Tgt Ion:114 Resp: 442590

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 26.1 | 20.7 | 31.1 |
| 88 | 18.2 | 15.0 | 22.4 |



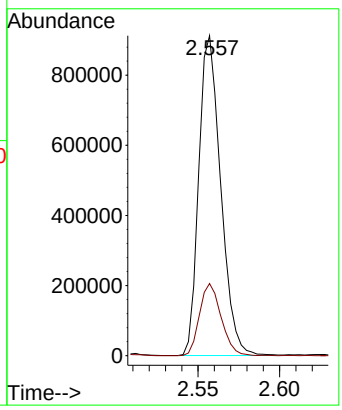


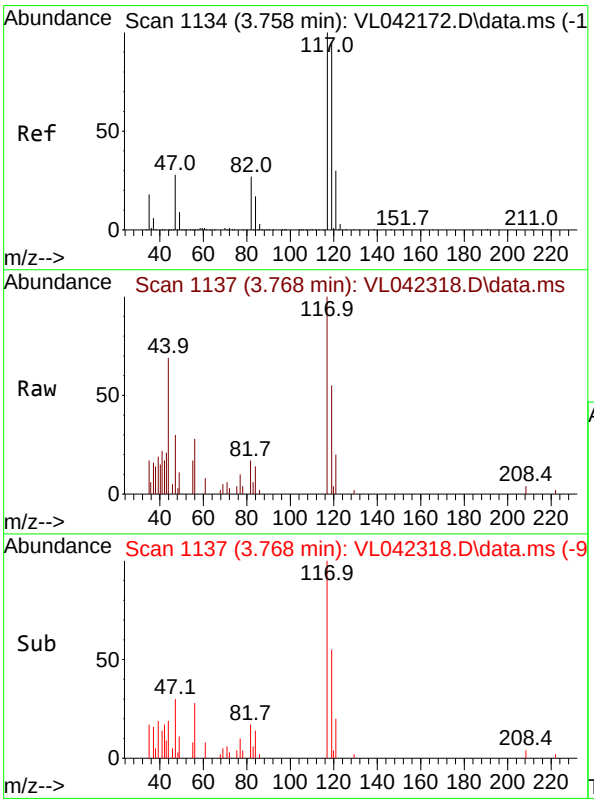

#34
2-Butanone
Concen: 26.579 ppbv
RT: 2.557 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025DUP

Tgt Ion: 43 Resp: 853001

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 22.3 | 18.2 | 27.2 |

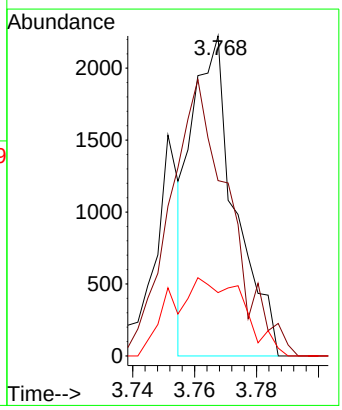


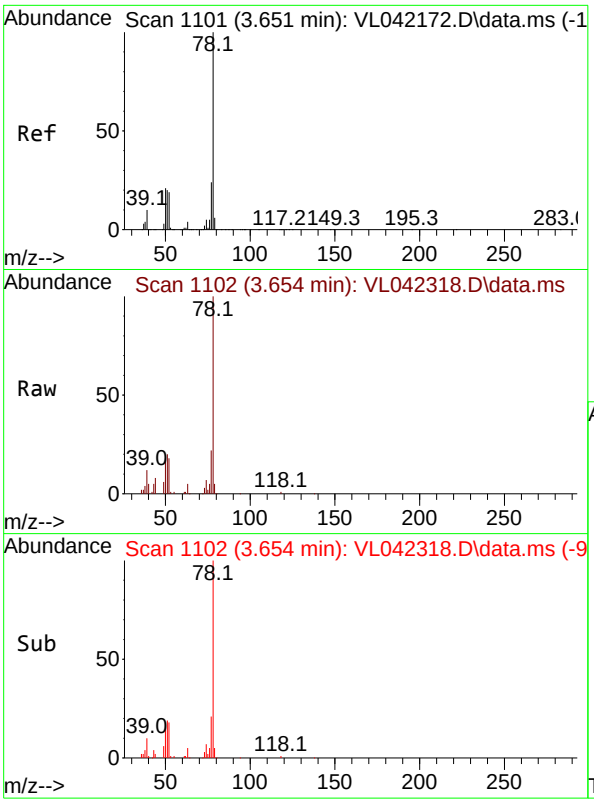




#35
Carbon Tetrachloride
Concen: 0.063 ppbv
RT: 3.768 min Scan# 1137
Delta R.T. 0.009 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

Tgt Ion:117 Resp: 2172

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 44.7 | 76.2 | 114.2# |
| 121 | 17.4 | 24.2 | 36.4# |



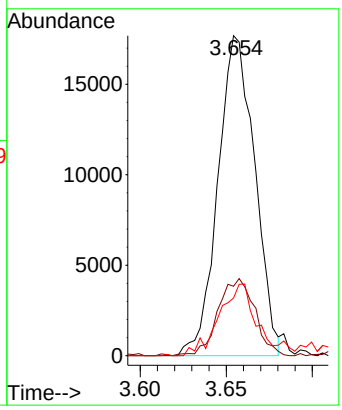


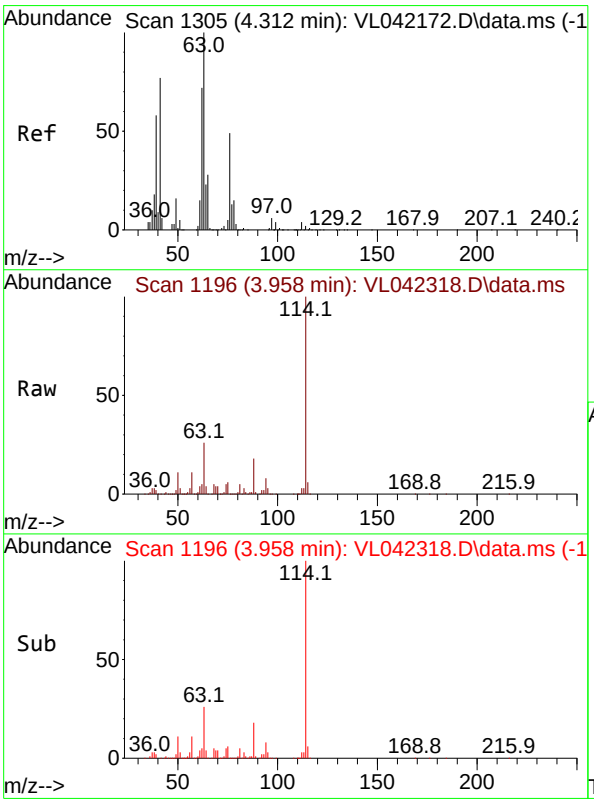

#36
Benzene
Concen: 0.601 ppbv
RT: 3.654 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025DUP

Tgt Ion: 78 Resp: 26349

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 21.2 | 19.1 | 28.7 |
| 50 | 18.0 | 16.6 | 24.8 |

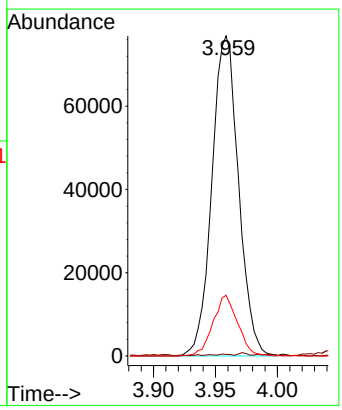


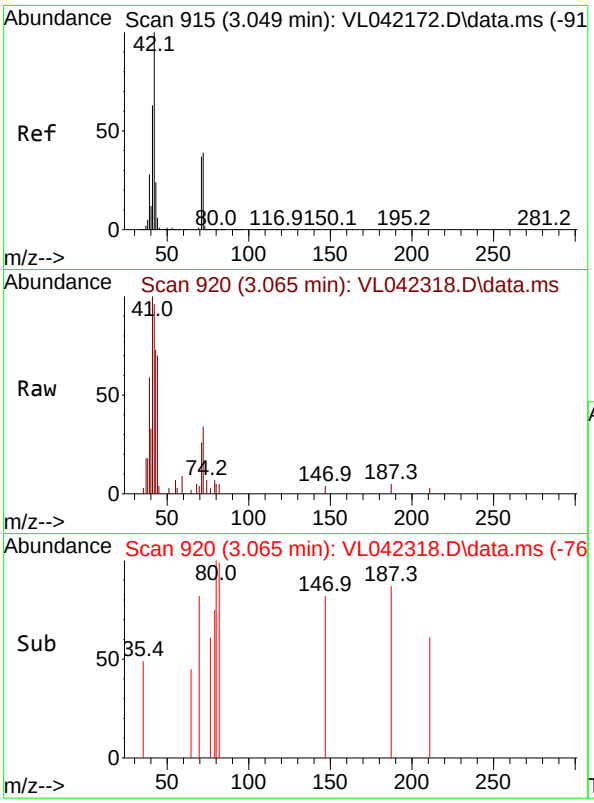




#39
1,2-Dichloropropane
Concen: 7.216 ppbv
RT: 3.958 min Scan# 1196
Delta R.T. -0.353 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

Tgt Ion: 63 Resp: 115306

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 0.4 | 61.7 | 92.5# |
| 62 | 18.9 | 57.6 | 86.4# |



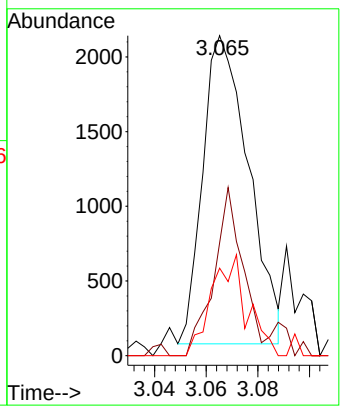


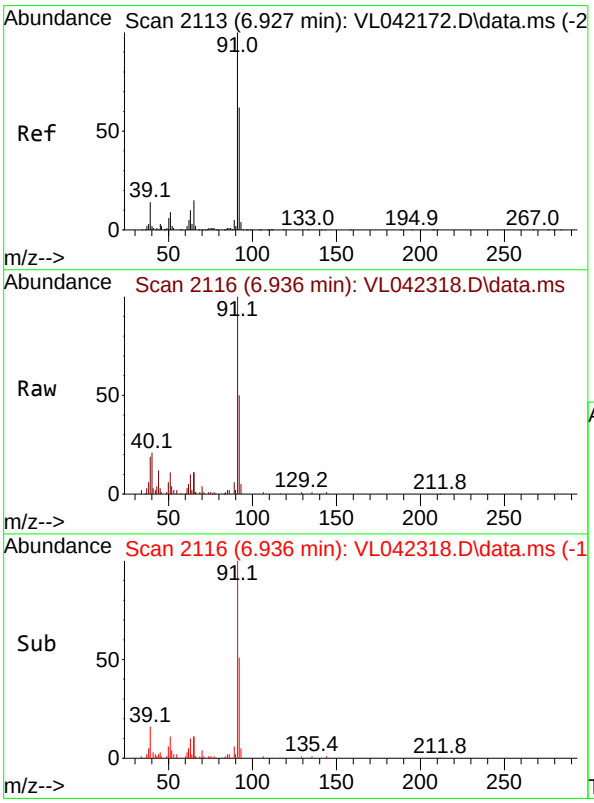

#41
Tetrahydrofuran
Concen: 0.137 ppbv
RT: 3.065 min Scan# 9
Delta R.T. 0.016 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025DUP

Tgt Ion: 42 Resp: 2536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 0.0 | 31.4 | 47.0# |
| 71 | 26.5 | 30.2 | 45.4# |

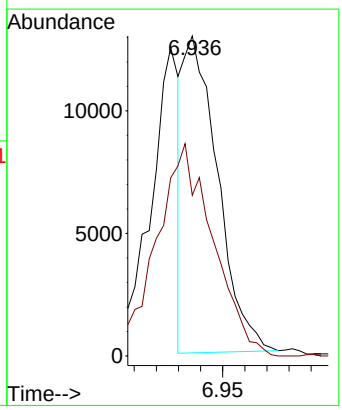


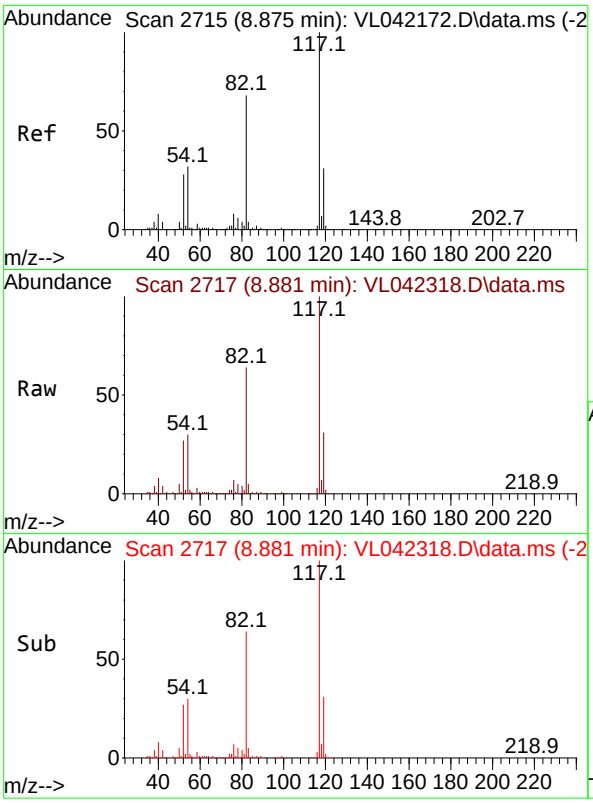




#53
Toluene
Concen: 0.269 ppbv
RT: 6.936 min Scan# 2116
Delta R.T. 0.009 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

Tgt Ion: 91 Resp: 13995

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 111.0 | 48.4 | 72.6# |



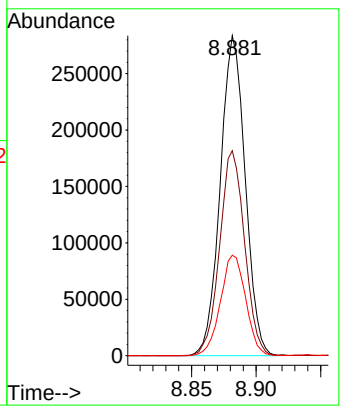


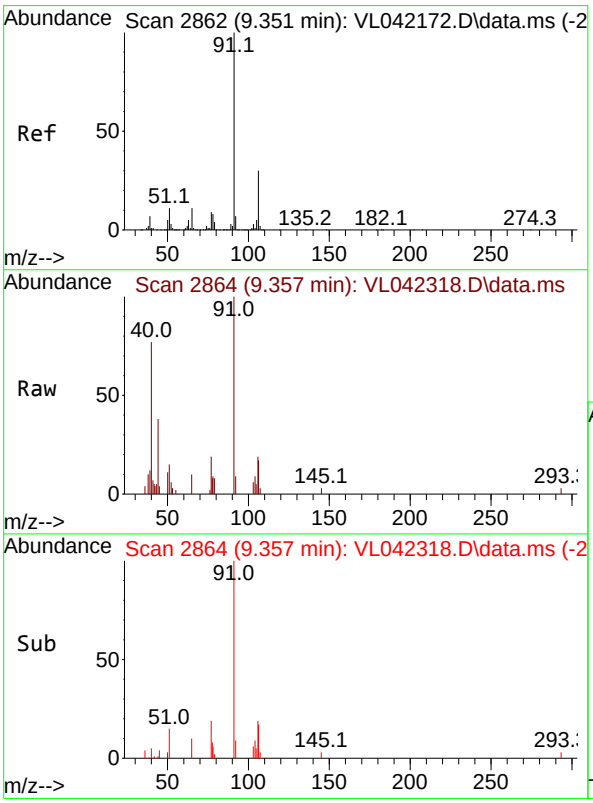

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025DUP

Tgt Ion:117 Resp: 380933

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 64.2 | 55.8 | 83.6 |
| 119 | 31.9 | 25.5 | 38.3 |

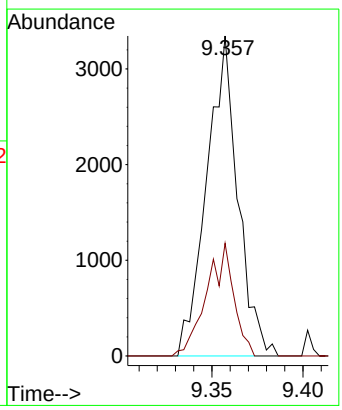


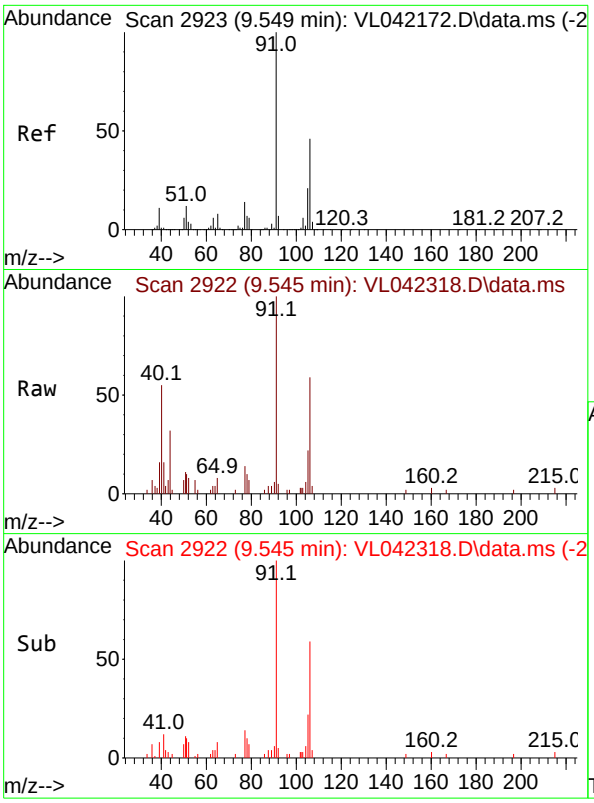




#58
Ethyl Benzene
Concen: 0.059 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. 0.006 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

Tgt Ion: 91 Resp: 3973

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 35.2 | 24.2 | 36.2 |



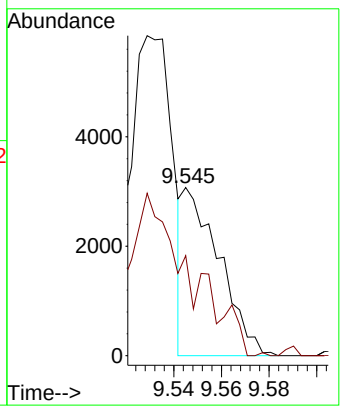


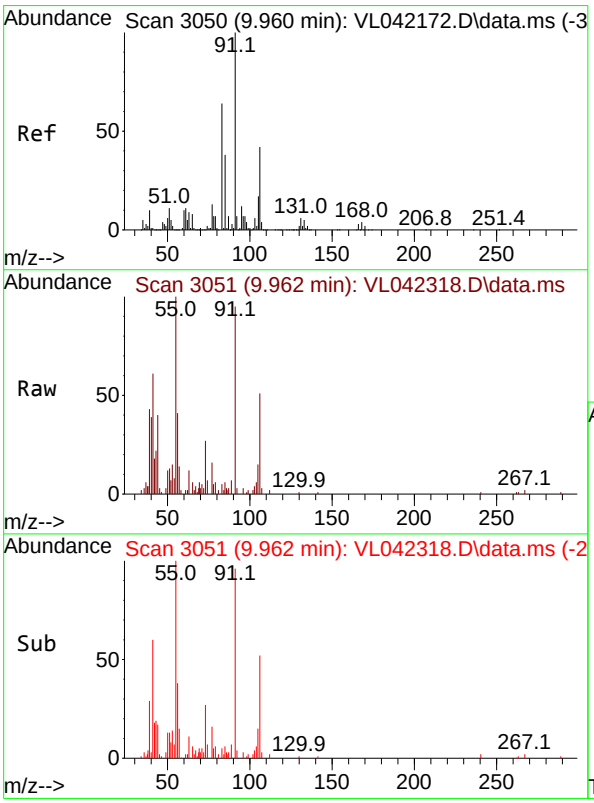

#59
m/p-Xylene
Concen: 0.061 ppbv
RT: 9.545 min Scan# 2
Delta R.T. -0.004 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025DUP

Tgt Ion: 91 Resp: 3275

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 0.0 | 36.4 | 54.6# |

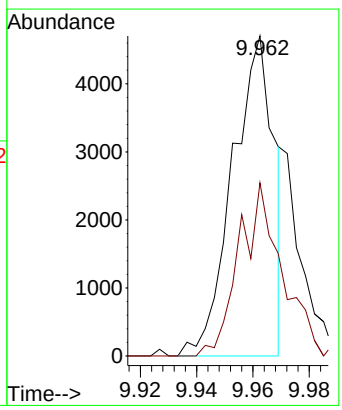


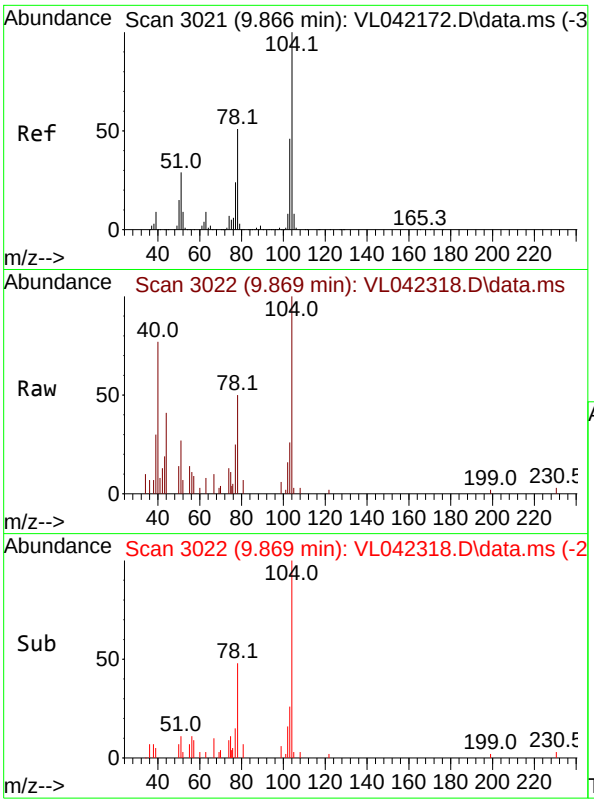




#60
o-Xylene
Concen: 0.089 ppbv
RT: 9.962 min Scan# 3051
Delta R.T. 0.003 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

Tgt Ion: 91 Resp: 4830

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 56.9 | 20.8 | 62.5 |



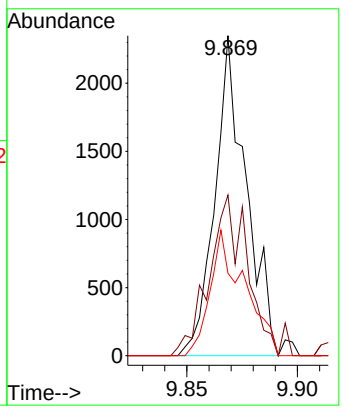


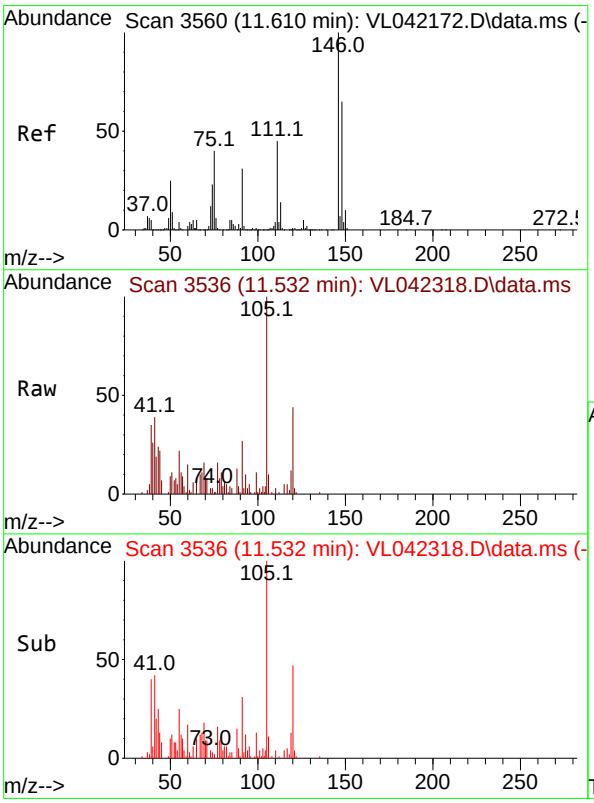

#61
Styrene
Concen: 0.086 ppbv
RT: 9.869 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025DUP

Tgt Ion:104 Resp: 2313

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 62.7 | 41.8 | 62.6# |
| 103 | 43.0 | 37.0 | 55.4 |

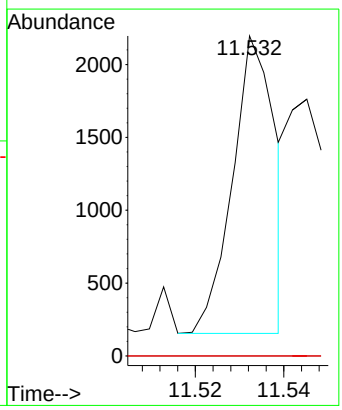


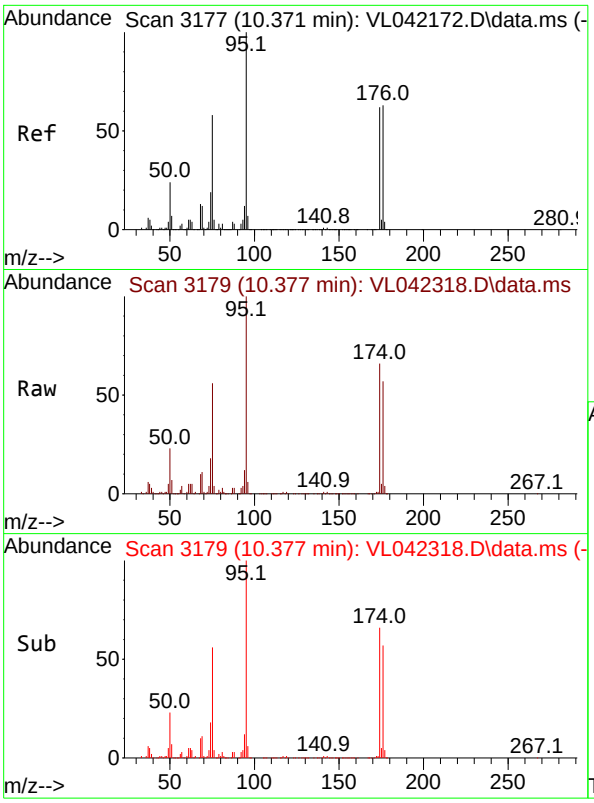




#66
Benzyl Chloride
Concen: 0.172 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.078 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

Tgt Ion: 91 Resp: 1364

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 0.0 | 13.8 | 20.6# |
| 128 | 3.6 | 4.5 | 6.7# |



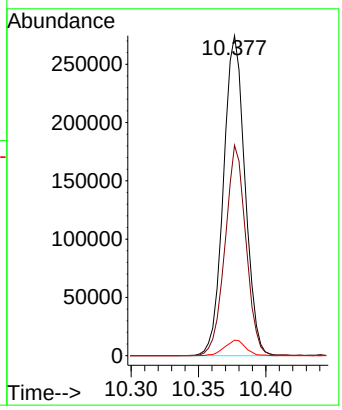


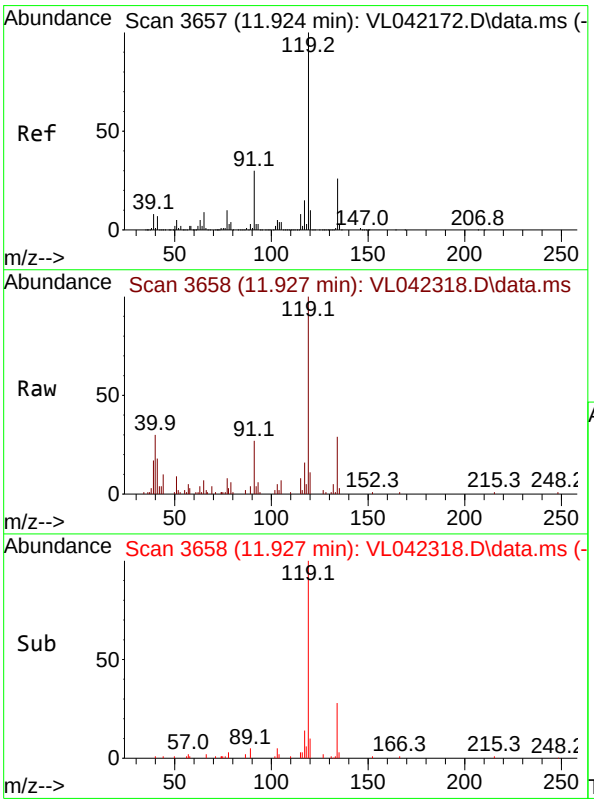

#68
1-Bromo-4-Fluorobenzene
Concen: 9.741 ppbv
RT: 10.377 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025DUP

Tgt Ion: 95 Resp: 304733

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 63.9 | 50.6 | 76.0 |
| 175 | 4.8 | 3.8 | 5.6 |

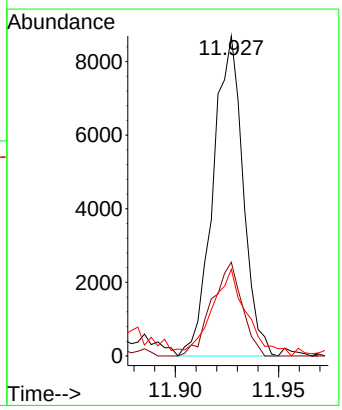


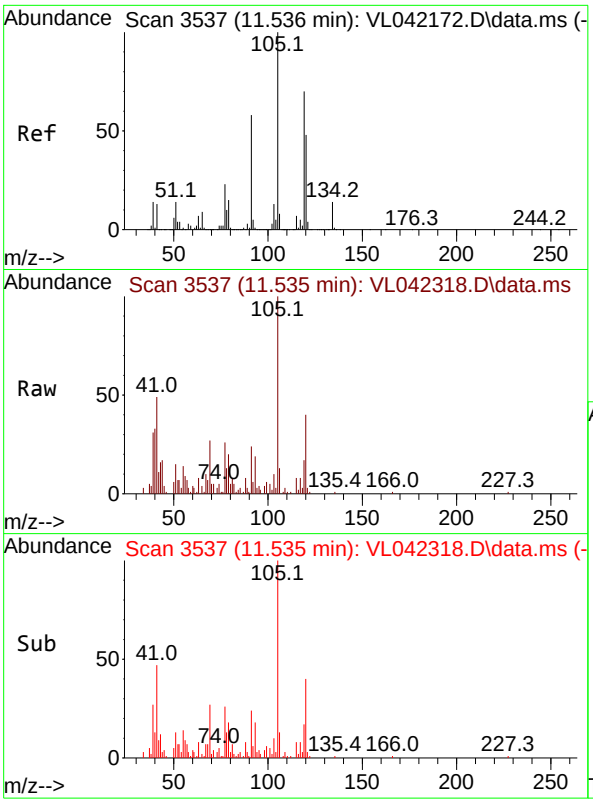




#69
p-Isopropyltoluene
Concen: 0.098 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. 0.003 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

Tgt Ion:119 Resp: 8784

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 31.1 | 20.4 | 30.6# |
| 91 | 0.0 | 23.7 | 35.5# |



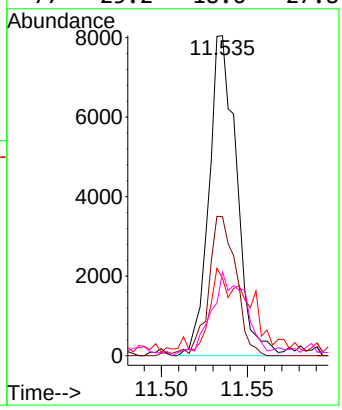



#74
1,2,4-Trimethylbenzene
Concen: 0.132 ppbv
RT: 11.535 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-2-3242025DUP

Tgt Ion:105 Resp: 8971

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 43.4 | 38.6 | 58.0 |
| 91 | 21.9 | 46.2 | 69.2# |
| 77 | 25.2 | 18.6 | 27.8 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042319.D
Acq On : 11 Apr 2025 14:27
Operator : SY/MD
Sample : Q1665-10
Misc : 400mL/MSVOA_L
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025

Quant Time: Apr 11 23:00:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

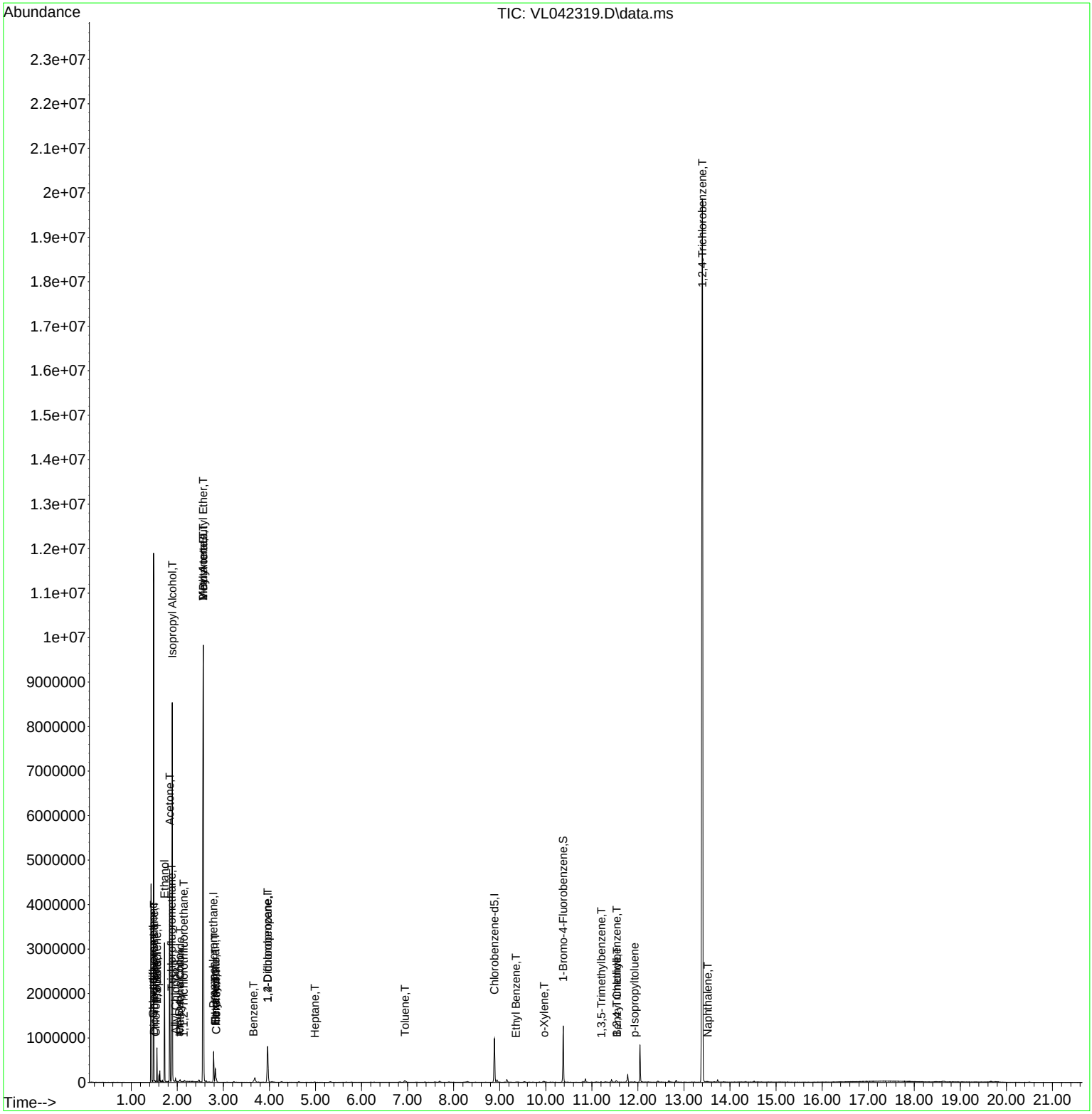
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) Bromochloromethane | 2.787 | 49 | 190778 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.962 | 114 | 461210 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.885 | 117 | 383940 | 10.000 | ppbv | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95 | 301822 | 9.573 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 95.700% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.499 | 85 | 10940 | 0.388 | ppbv | | 100 |
| 3) Chlorodifluoromethane | 1.476 | 51 | 18717 | 0.650 | ppbv | # | 84 |
| 4) Chloromethane | 1.531 | 50 | 6976 | 0.606 | ppbv | | 98 |
| 9) Propene | 1.561 | 41 | 78643 | 5.962 | ppbv | | 90 |
| 10) Heptane | 4.985 | 43 | 2838 | 0.081 | ppbv | | 98 |
| 11) Trichlorofluoromethane | 1.878 | 101 | 5102 | 0.186 | ppbv | | 87 |
| 12) 1,1,2-Trichlorotrifluo... | 2.140 | 101 | 1629 | 0.072 | ppbv | | 98 |
| 13) Ethanol | 1.722 | 45 | 1088476 | 872.986 | ppbv | | 86 |
| 15) Acetone | 1.836 | 43 | 2047600 | 76.743 | ppbv | # | 79 |
| 16) 1,3-Butadiene | 1.561 | 39 | 34457 | 2.644 | ppbv | # | 13 |
| 17) tert-Butyl alcohol | 2.046 | 59 | 6995 | 0.210 | ppbv | # | 37 |
| 19) Isopropyl Alcohol | 1.891 | 45 | 3151010 | 209.311 | ppbv | # | 32 |
| 20) Methylene Chloride | 2.062 | 84 | 5890 | 0.593 | ppbv | | 86 |
| 21) Allyl Chloride | 1.962 | 41 | 8745 | 0.465 | ppbv | # | 21 |
| 23) Vinyl Acetate | 2.564 | 43 | 5516146 | 477.676 | ppbv | # | 72 |
| 25) Ethyl Acetate | 2.829 | 43 | 65016 | 0.939 | ppbv | # | 89 |
| 26) Hexane | 2.826 | 57 | 60038 | 2.245 | ppbv | # | 4 |
| 28) Methyl tert-Butyl Ether | 2.564 | 73 | 206262 | 12.386 | ppbv | # | 1 |
| 29) Chloroform | 2.849 | 83 | 22740 | 0.581 | ppbv | | 100 |
| 34) 2-Butanone | 2.564 | 43 | 5516146 | 164.939 | ppbv | # | 36 |
| 36) Benzene | 3.655 | 78 | 21386 | 0.468 | ppbv | # | 93 |
| 39) 1,2-Dichloropropane | 3.962 | 63 | 118114 | 7.093 | ppbv | # | 24 |
| 41) Tetrahydrofuran | 2.826 | 42 | 29308 | 1.522 | ppbv | # | 49 |
| 53) Toluene | 6.946 | 91 | 6234 | 0.115 | ppbv | # | 20 |
| 58) Ethyl Benzene | 9.354 | 91 | 3931 | 0.058 | ppbv | | 95 |
| 60) o-Xylene | 9.966 | 91 | 4483 | 0.082 | ppbv | | 93 |
| 66) Benzyl Chloride | 11.546 | 91 | 609 | 0.076 | ppbv | # | 69 |
| 69) p-Isopropyltoluene | 11.927 | 119 | 3908 | 0.043 | ppbv | # | 87 |
| 73) 1,3,5-Trimethylbenzene | 11.206 | 105 | 2285 | 0.038 | ppbv | | 89 |
| 74) 1,2,4-Trimethylbenzene | 11.539 | 105 | 7147 | 0.105 | ppbv | # | 67 |
| 79) Naphthalene | 13.517 | 128 | 5078 | 0.068 | ppbv | # | 94 |
| 81) 1,2,4-Trichlorobenzene | 13.400 | 180 | 82529 | 2.392 | ppbv | # | 19 |

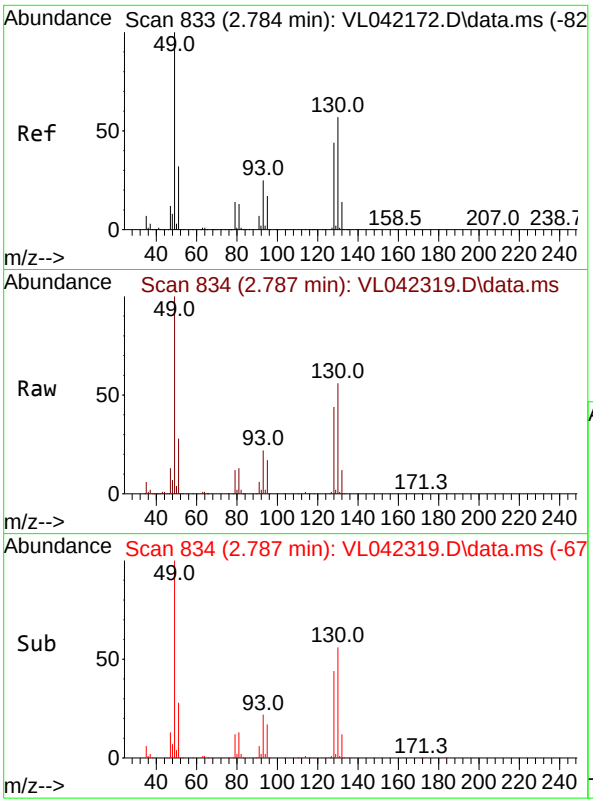
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042319.D
Acq On : 11 Apr 2025 14:27
Operator : SY/MD
Sample : Q1665-10
Misc : 400mL/MSVOA_L
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025

Quant Time: Apr 11 23:00:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration



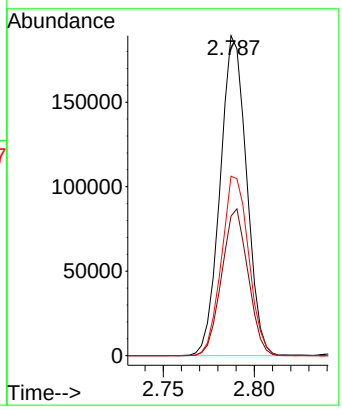


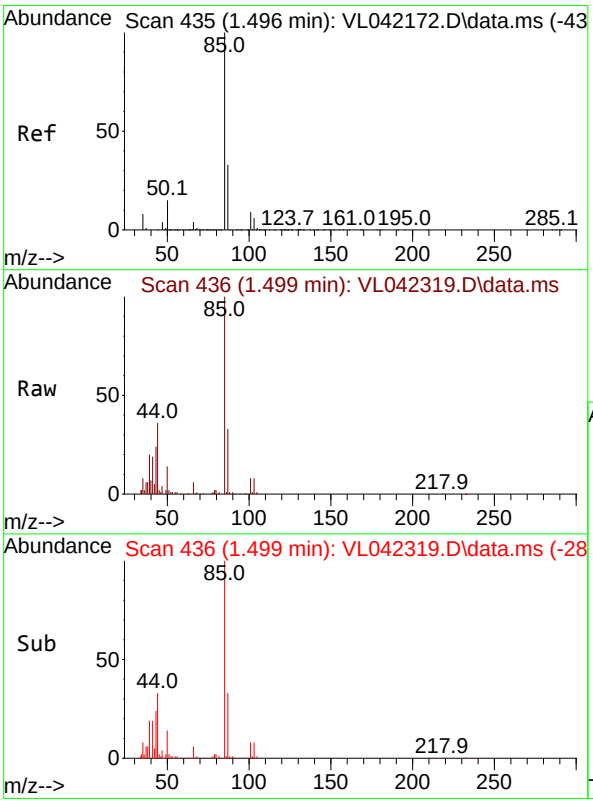

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025

Tgt Ion: 49 Resp: 190778

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 45.7 | 22.9 | 68.5 |
| 130 | 57.8 | 28.8 | 86.4 |

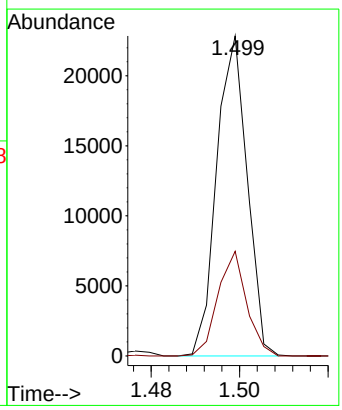


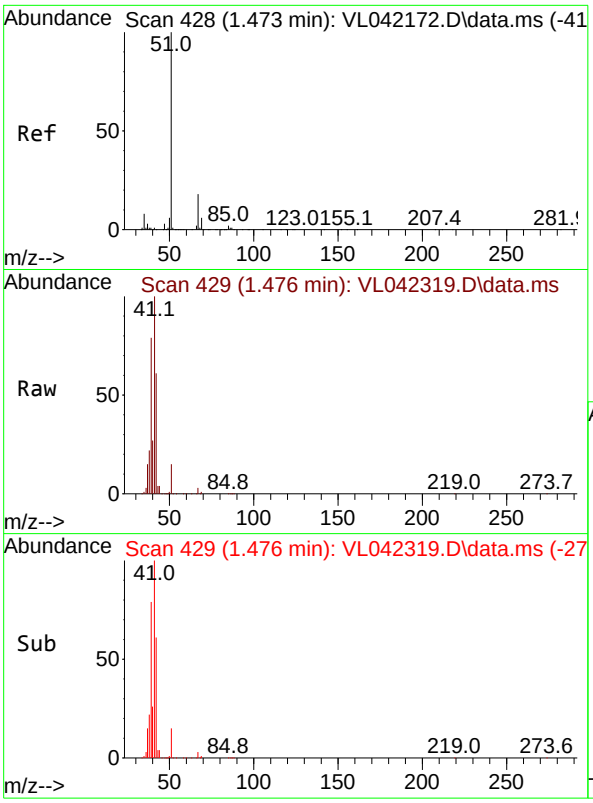




#2
Dichlorodifluoromethane
Concen: 0.388 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion: 85 Resp: 10940

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.7 | 26.1 | 39.1 |



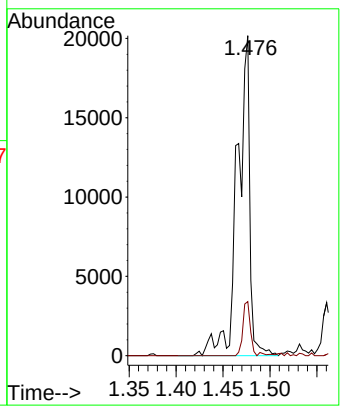


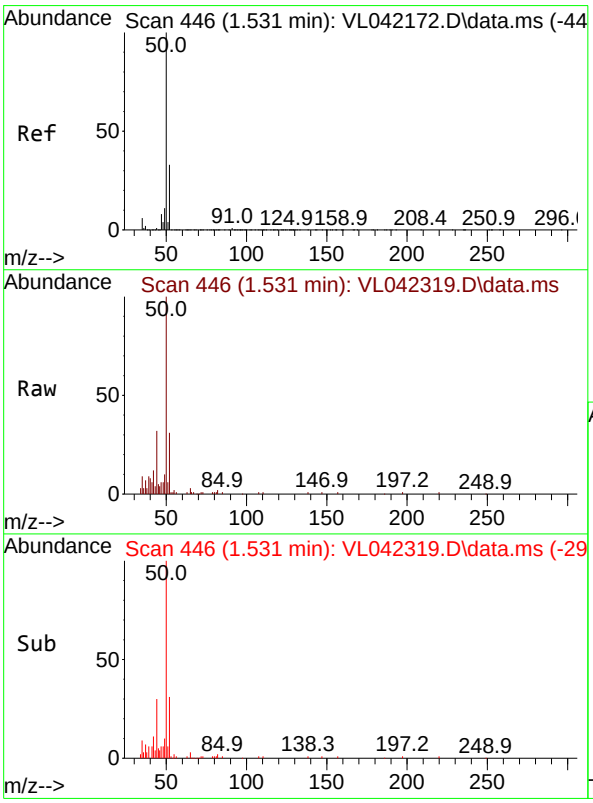

#3
Chlorodifluoromethane
Concen: 0.650 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025

Tgt Ion: 51 Resp: 18717

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 11.4 | 15.0 | 22.6# |

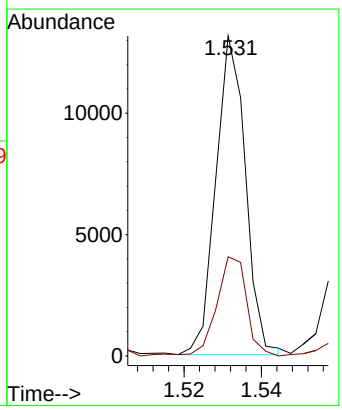


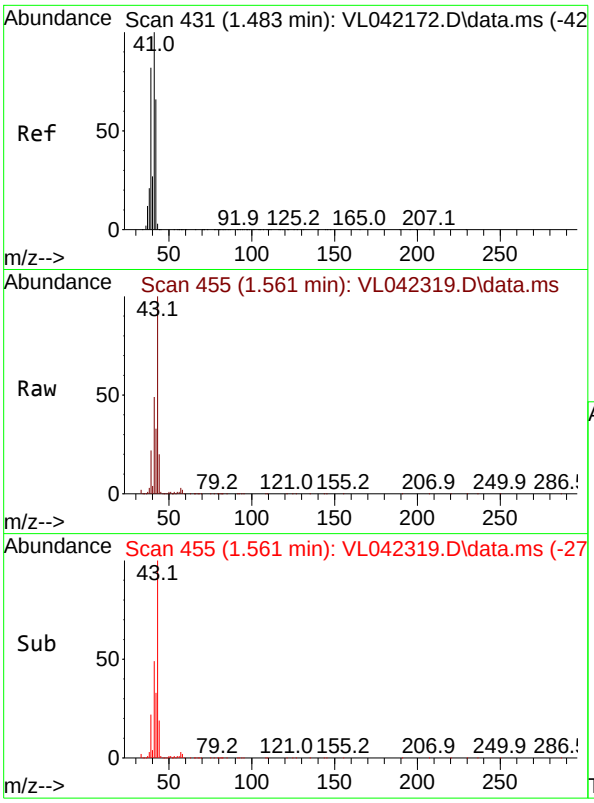




#4
Chloromethane
Concen: 0.606 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion: 50 Resp: 6976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 31.5 | 26.1 | 39.1 |



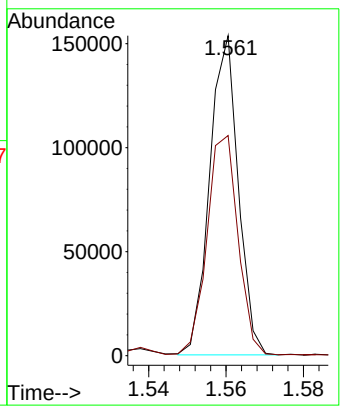


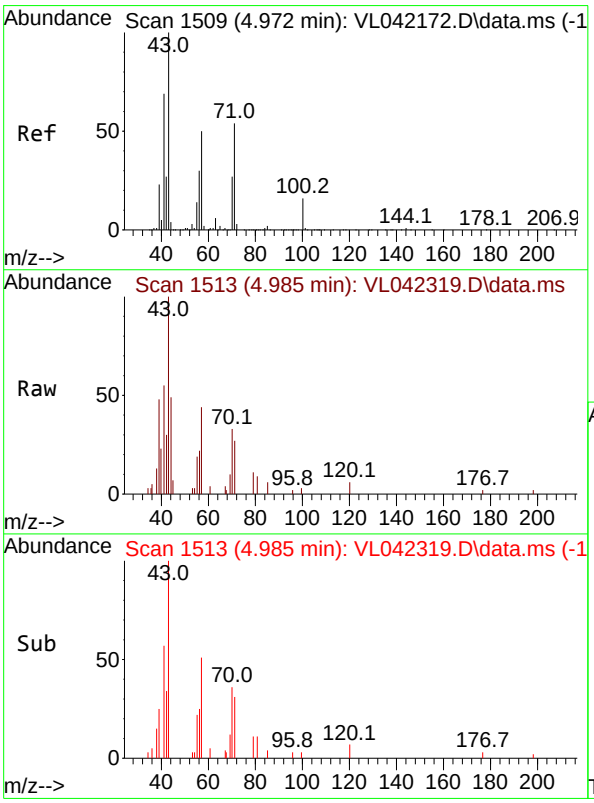

#9
Propene
Concen: 5.962 ppbv
RT: 1.561 min Scan# 4
Delta R.T. 0.078 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025

Tgt Ion: 41 Resp: 78643

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 77.3 | 55.4 | 83.2 |

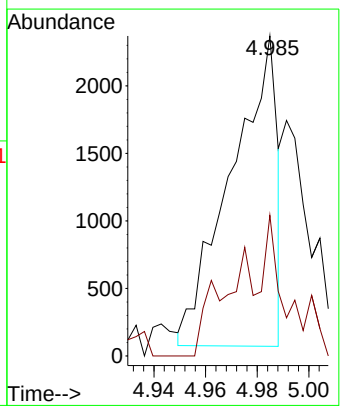


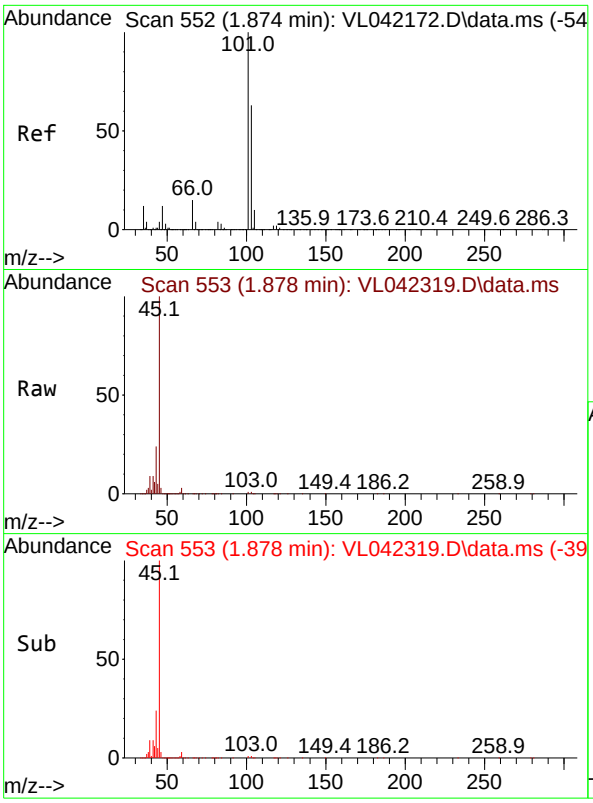




#10
Heptane
Concen: 0.081 ppbv
RT: 4.985 min Scan# 1513
Delta R.T. 0.013 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion: 43 Resp: 2838

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 48.2 | 39.4 | 59.2 |



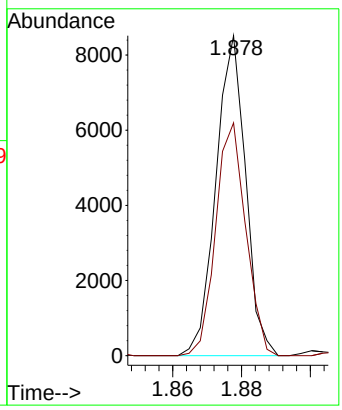


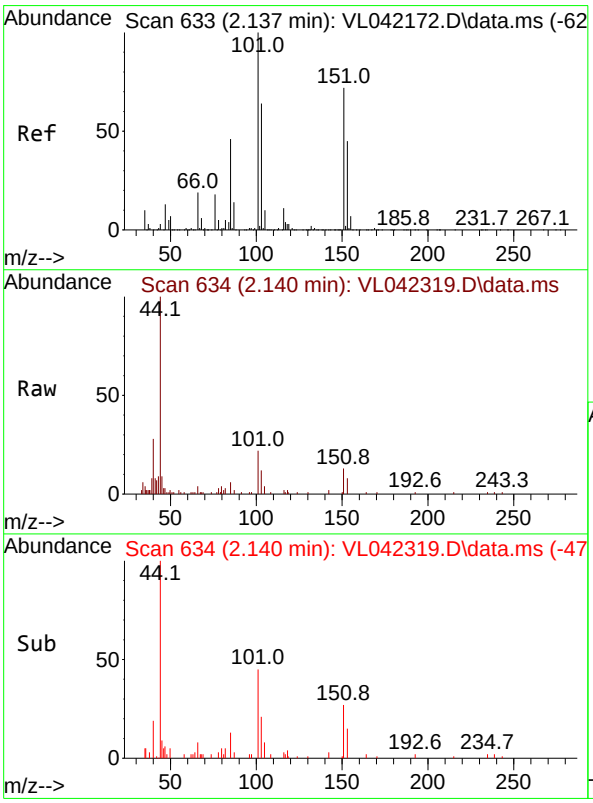

#11
Trichlorofluoromethane
Concen: 0.186 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025

Tgt Ion:101 Resp: 5102

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 72.7 | 50.2 | 75.2 |

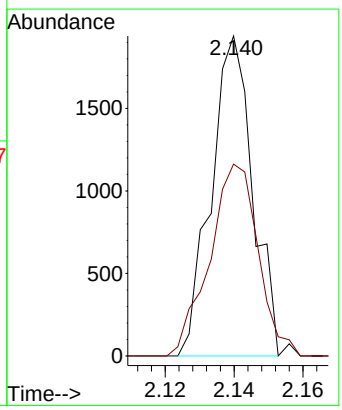


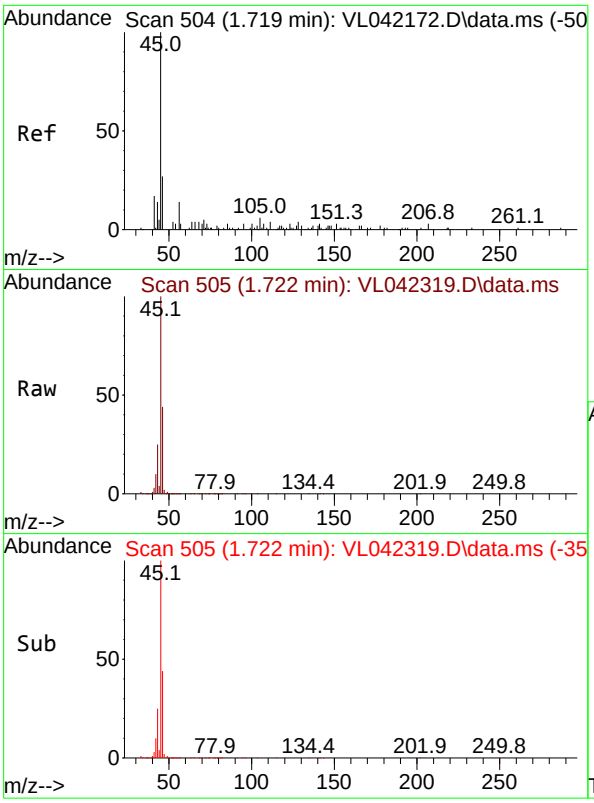




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.072 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion:101 Resp: 1629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 70.0 | 57.1 | 85.7 |



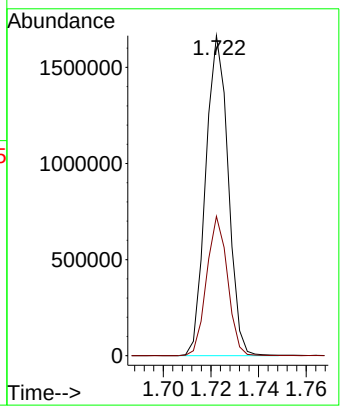


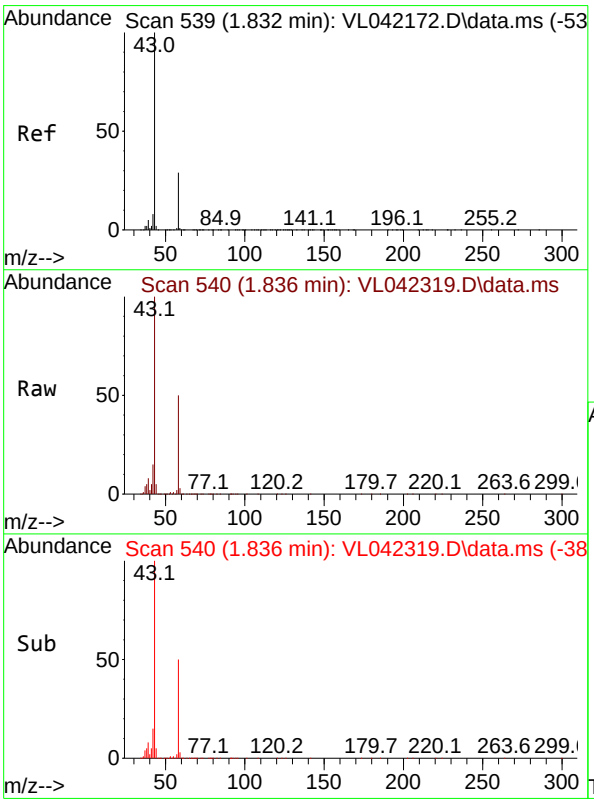

#13
Ethanol
Concen: 872.986 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025

Tgt Ion: 45 Resp: 1088476

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 40.7 | 20.2 | 80.8 |

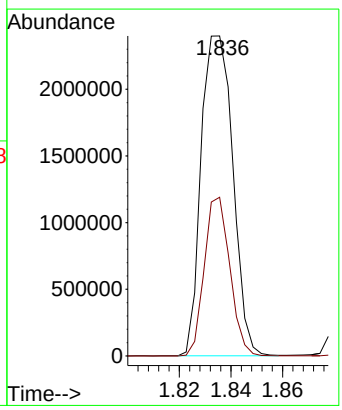


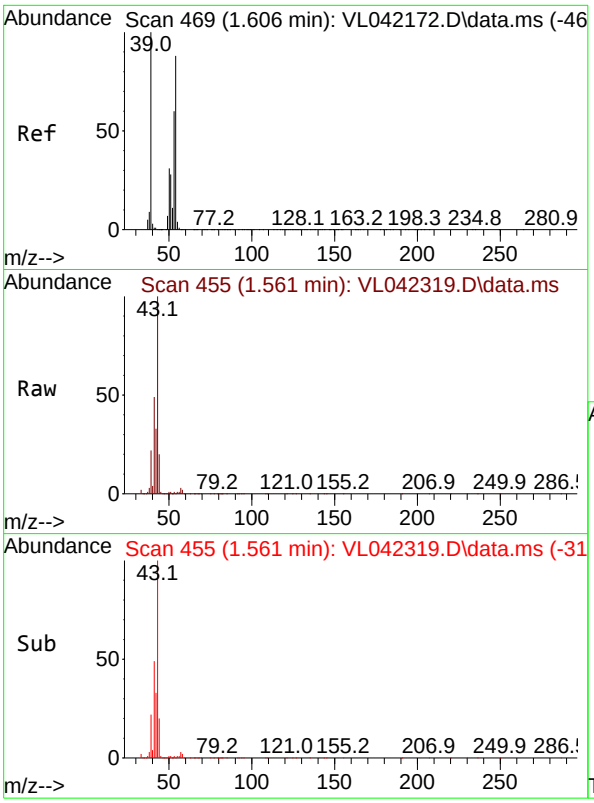




#15
Acetone
Concen: 76.743 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion: 43 Resp: 2047600

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 40.0 | 23.2 | 34.8# |



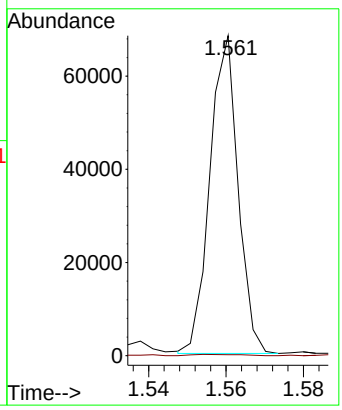


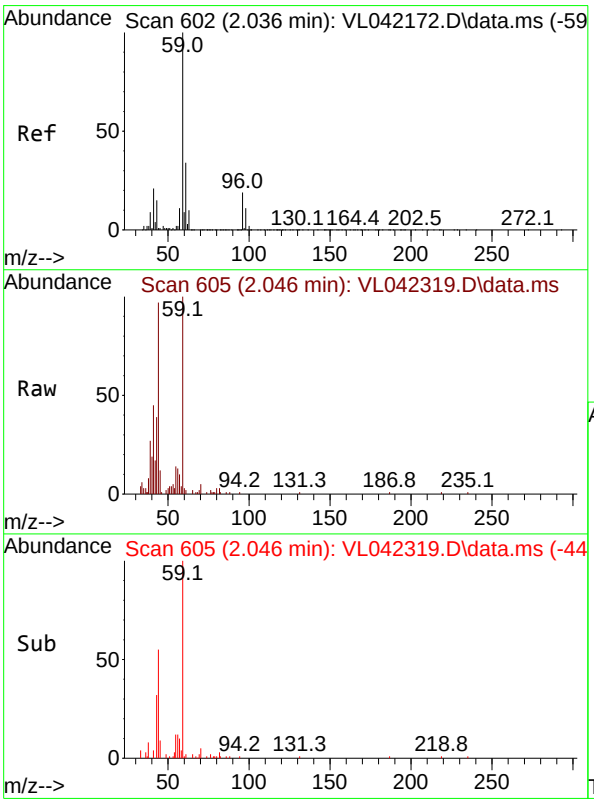

#16
1,3-Butadiene
Concen: 2.644 ppbv
RT: 1.561 min Scan# 4
Delta R.T. -0.045 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025

Tgt Ion: 39 Resp: 34457

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 0.9 | 60.7 | 91.1# |

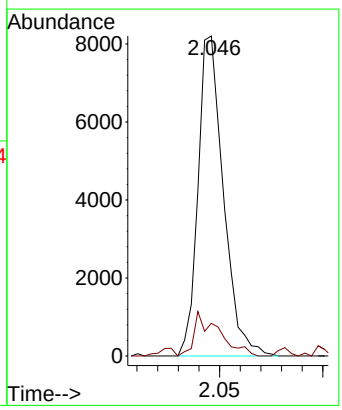


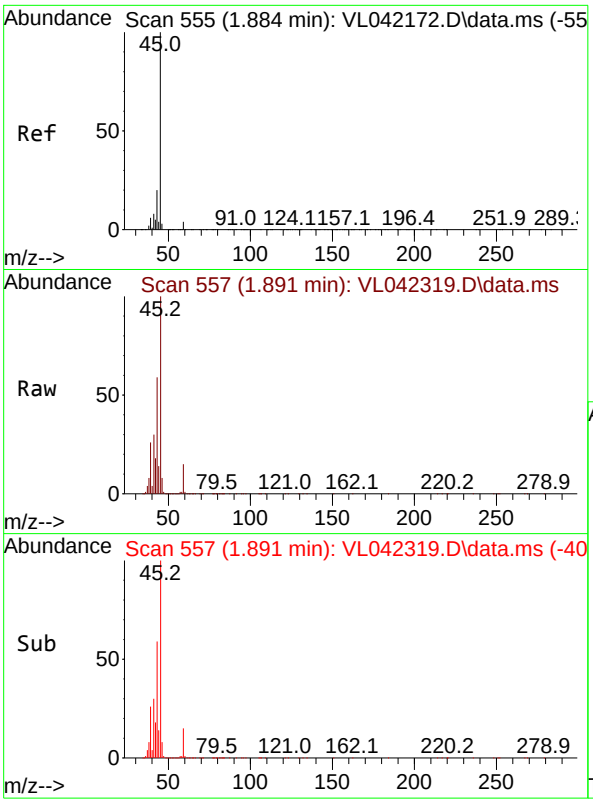




#17
tert-Butyl alcohol
Concen: 0.210 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.010 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion: 59 Resp: 6995

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 35.0 | 8.9 | 13.3# |



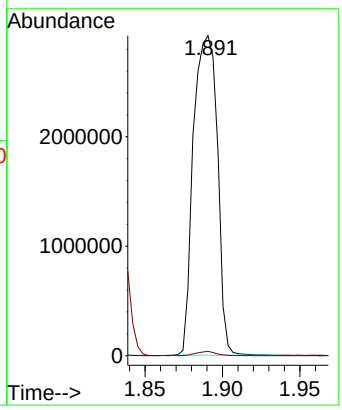


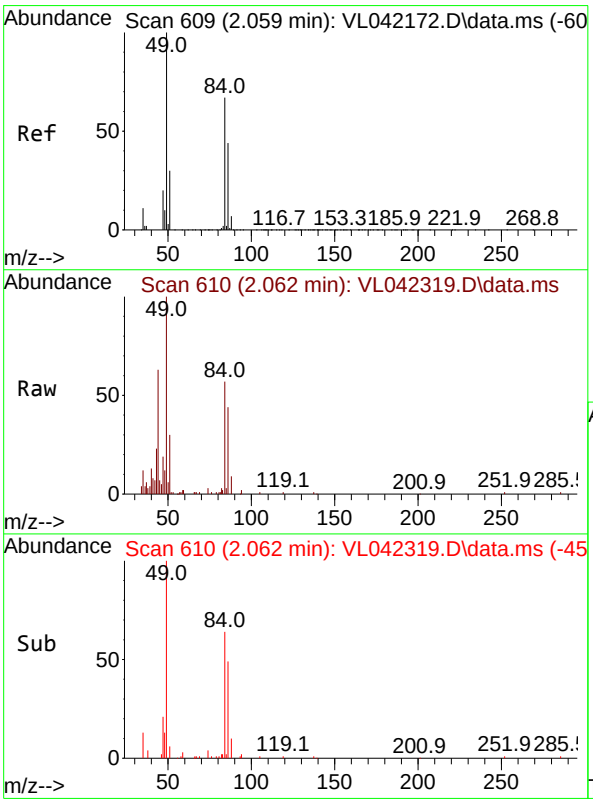

#19
Isopropyl Alcohol
Concen: 209.311 ppbv
RT: 1.891 min Scan# 5
Delta R.T. 0.006 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025

Tgt Ion: 45 Resp: 3151010

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 1.1 | 36.9 | 55.3# |

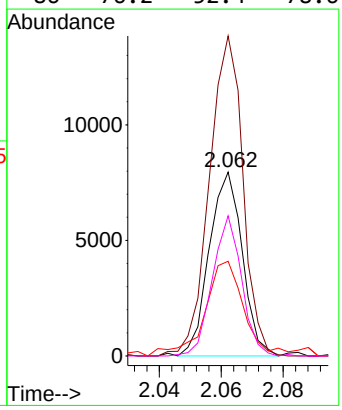


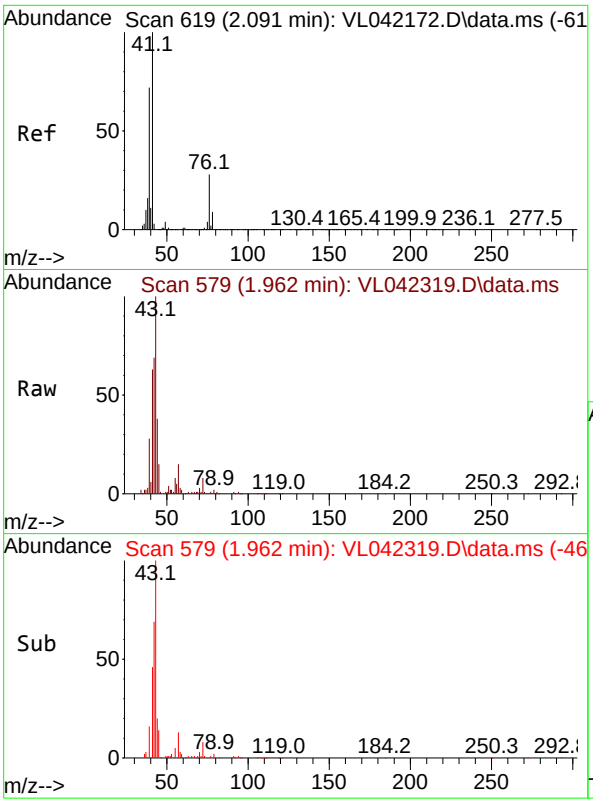




#20
Methylene Chloride
Concen: 0.593 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion: 84 Resp: 5890

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 173.3 | 120.2 | 180.4 |
| 51 | 47.2 | 37.4 | 56.0 |
| 86 | 76.2 | 52.4 | 78.6 |



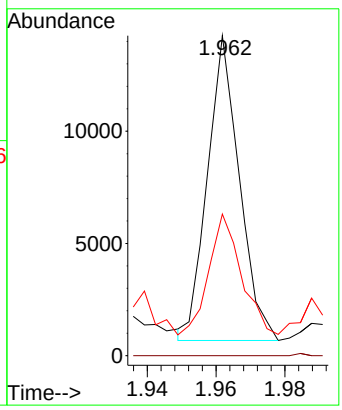


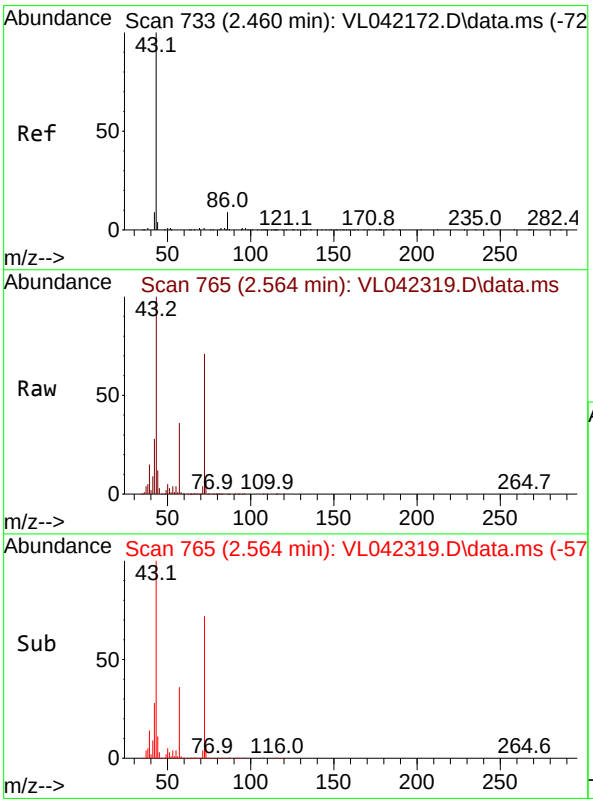

#21
Allyl Chloride
Concen: 0.465 ppbv
RT: 1.962 min Scan# 5
Delta R.T. -0.129 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025

Tgt Ion: 41 Resp: 8745

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 1.4 | 24.1 | 36.1# |
| 39 | 0.0 | 61.1 | 91.7# |

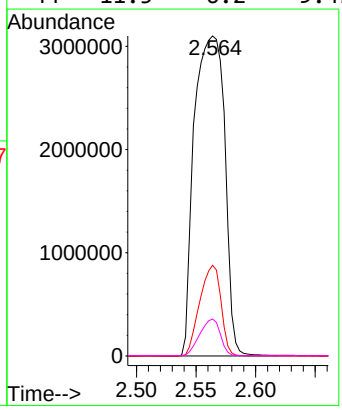


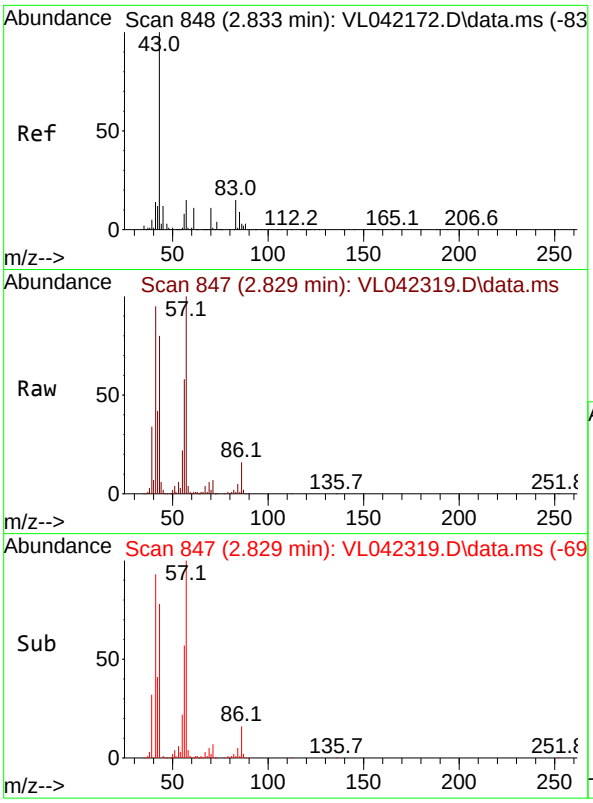




#23
Vinyl Acetate
Concen: 477.676 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.104 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion: 43 Resp: 5516146

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 0.0 | 5.5 | 8.3# |
| 42 | 28.3 | 8.6 | 13.0# |
| 44 | 11.5 | 6.2 | 9.4# |



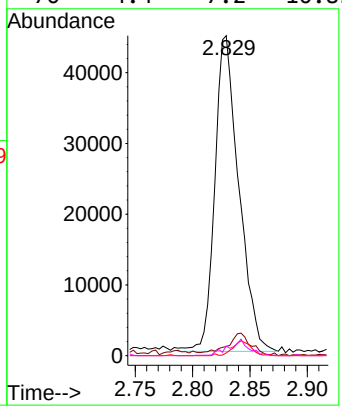


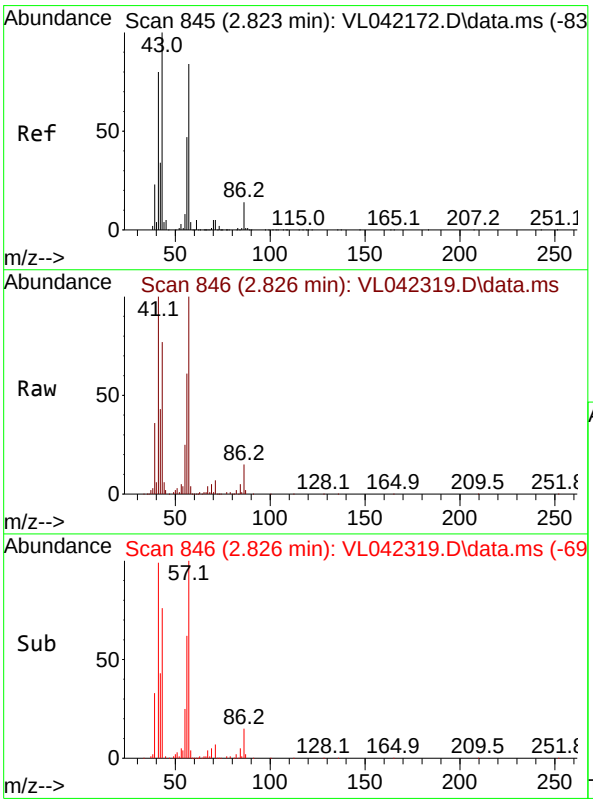

#25
Ethyl Acetate
Concen: 0.939 ppbv
RT: 2.829 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025

Tgt Ion: 43 Resp: 65016

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 8.3 | 8.2 | 12.2 |
| 61 | 3.6 | 7.3 | 10.9# |
| 70 | 4.4 | 7.2 | 10.8# |

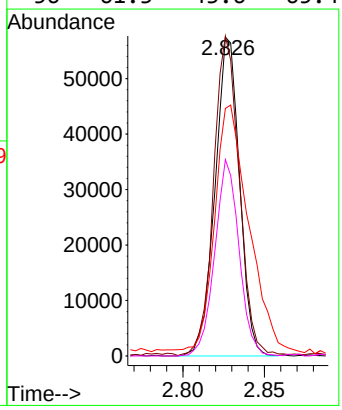


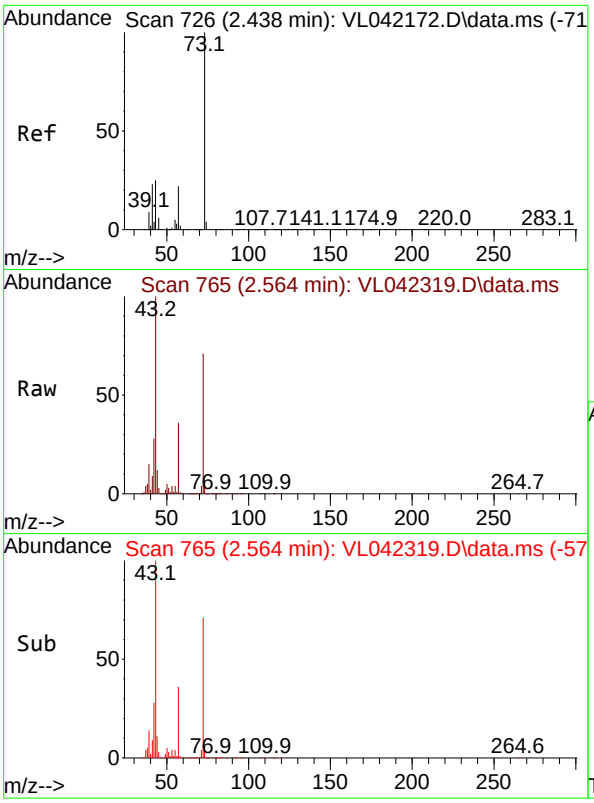




#26
Hexane
Concen: 2.245 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion: 57 Resp: 60038

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 106.2 | 76.6 | 114.8 |
| 43 | 0.0 | 207.8 | 311.8# |
| 56 | 61.3 | 43.6 | 65.4 |



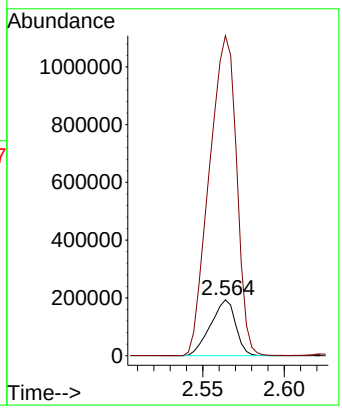


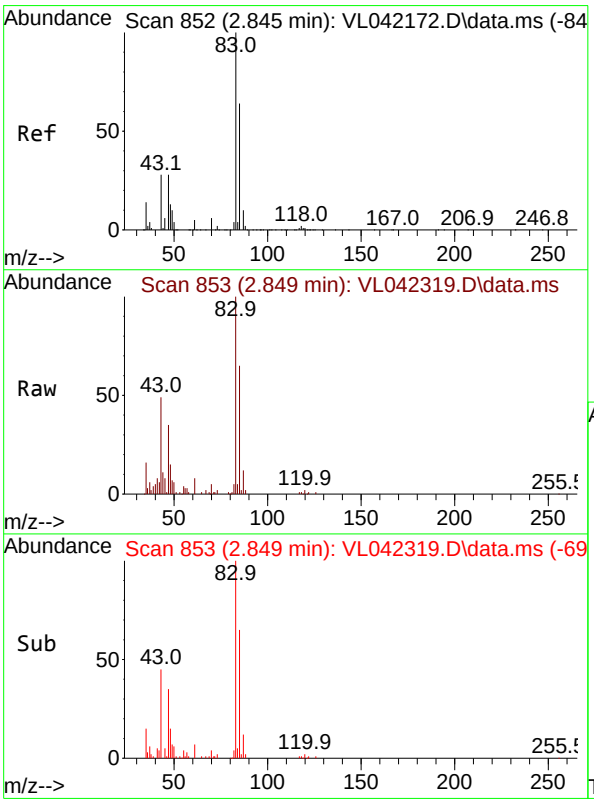

#28
Methyl tert-Butyl Ether
Concen: 12.386 ppbv
RT: 2.564 min Scan# 7
Delta R.T. 0.126 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025

Tgt Ion: 73 Resp: 206262

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 627.1 | 20.5 | 30.7# |

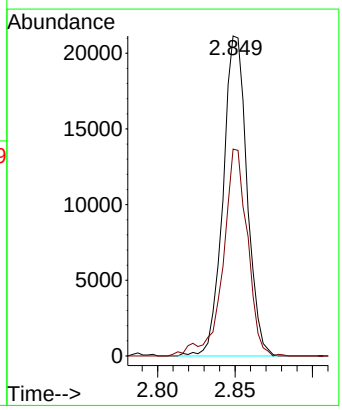


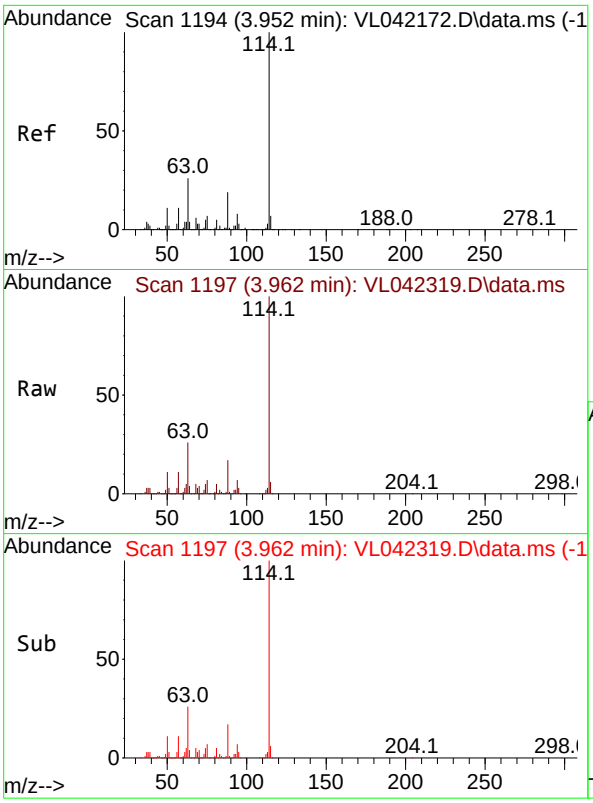




#29
Chloroform
Concen: 0.581 ppbv
RT: 2.849 min Scan# 853
Delta R.T. 0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion: 83 Resp: 22740

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.2 | 51.4 | 77.2 |



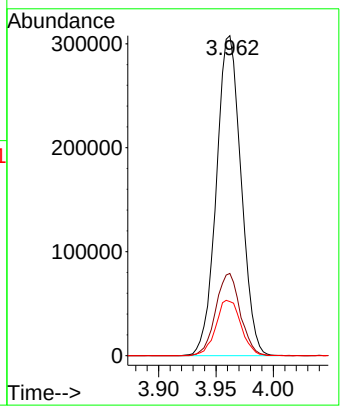


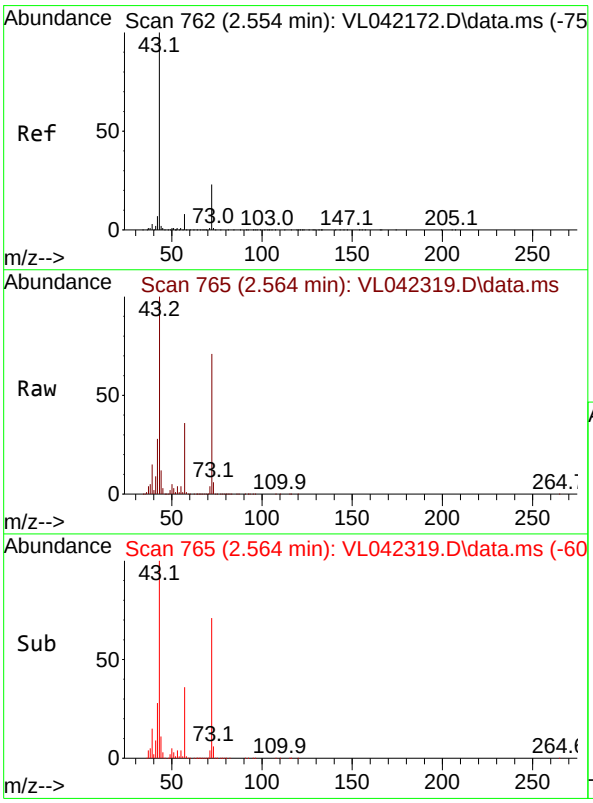

#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025

Tgt Ion:114 Resp: 461210

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.6 | 20.7 | 31.1 |
| 88 | 17.7 | 15.0 | 22.4 |

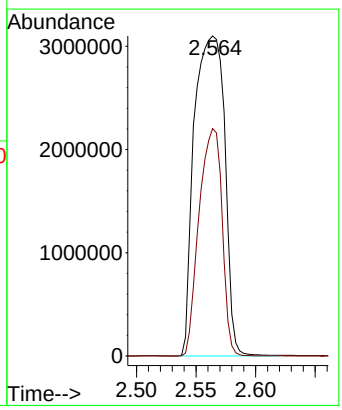


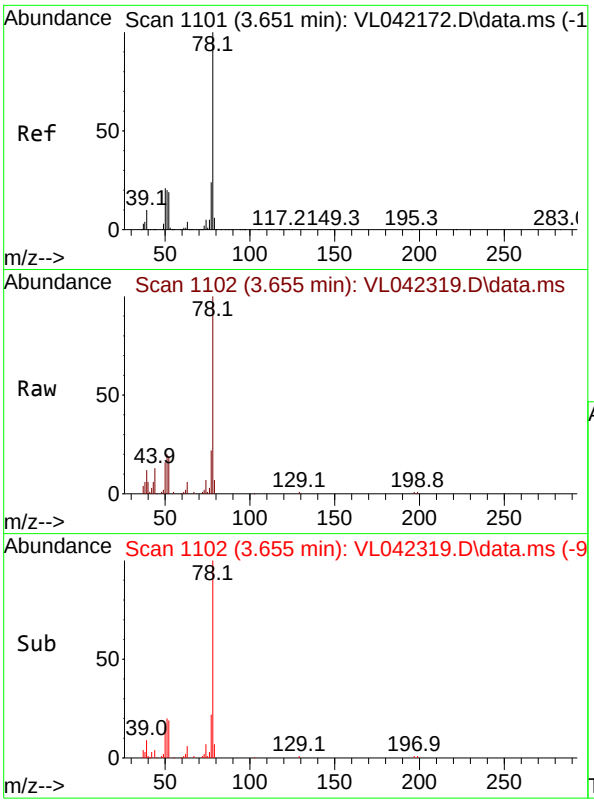




#34
2-Butanone
Concen: 164.939 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.010 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion: 43 Resp: 5516146

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 53.8 | 18.2 | 27.2# |



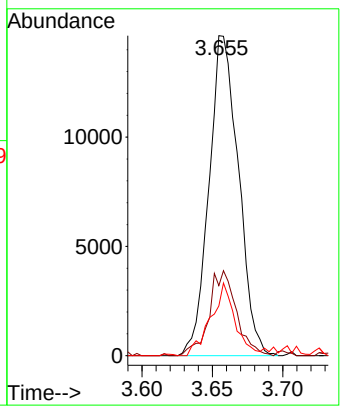


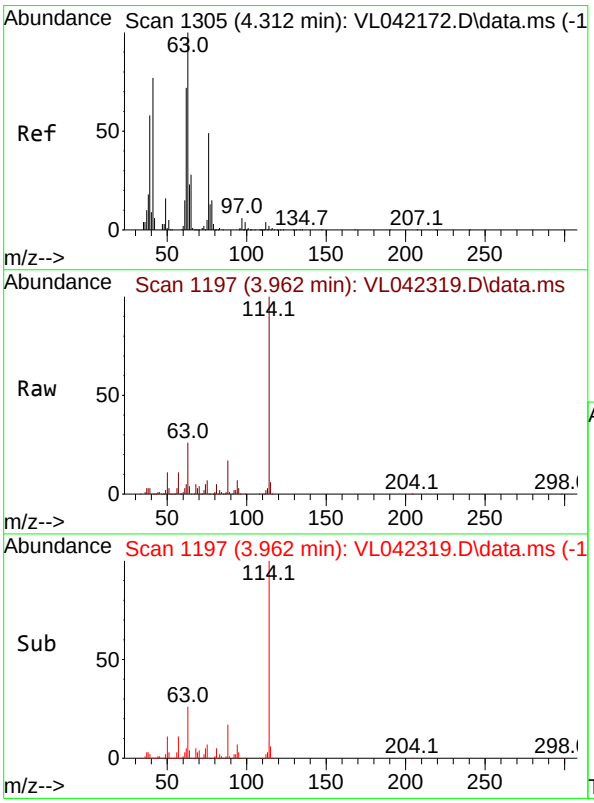

#36
Benzene
Concen: 0.468 ppbv
RT: 3.655 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025

Tgt Ion: 78 Resp: 21386

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 21.9 | 19.1 | 28.7 |
| 50 | 15.6 | 16.6 | 24.8# |

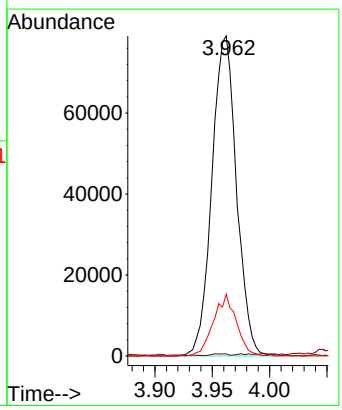


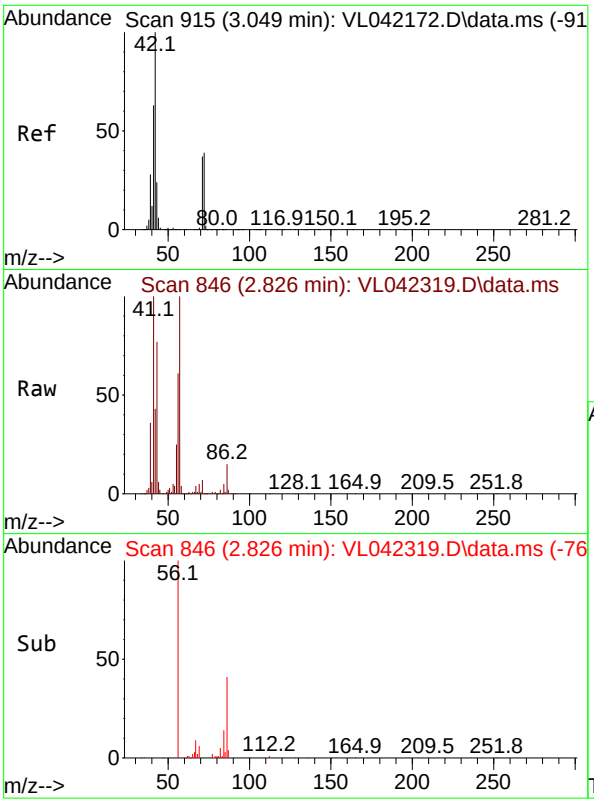




#39
1,2-Dichloropropane
Concen: 7.093 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. -0.350 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion: 63 Resp: 118114

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 0.3 | 61.7 | 92.5# |
| 62 | 19.2 | 57.6 | 86.4# |



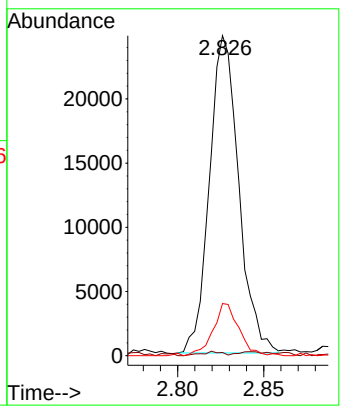


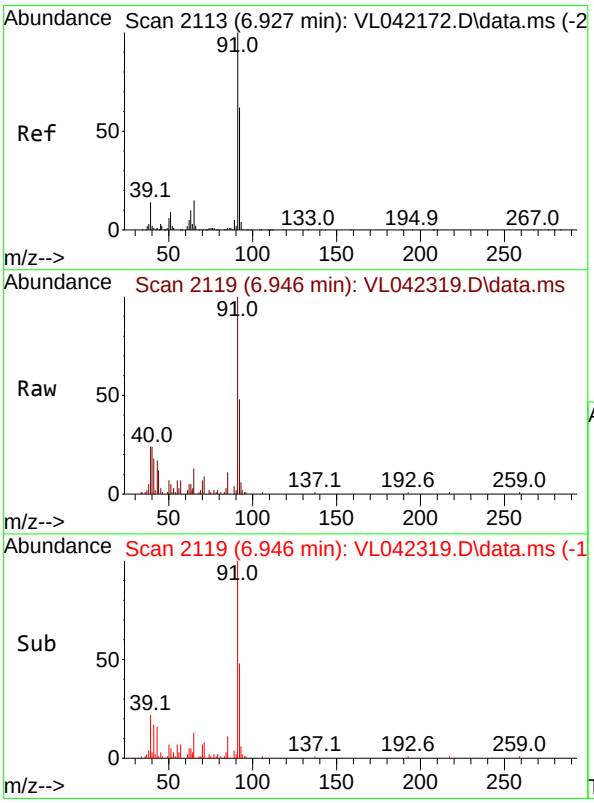

#41
Tetrahydrofuran
Concen: 1.522 ppbv
RT: 2.826 min Scan# 84
Delta R.T. -0.223 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025

Tgt Ion: 42 Resp: 29308

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 0.0 | 31.4 | 47.0# |
| 71 | 14.7 | 30.2 | 45.4# |

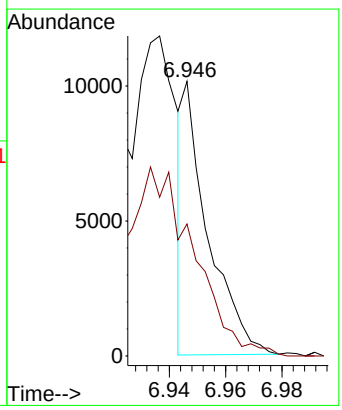


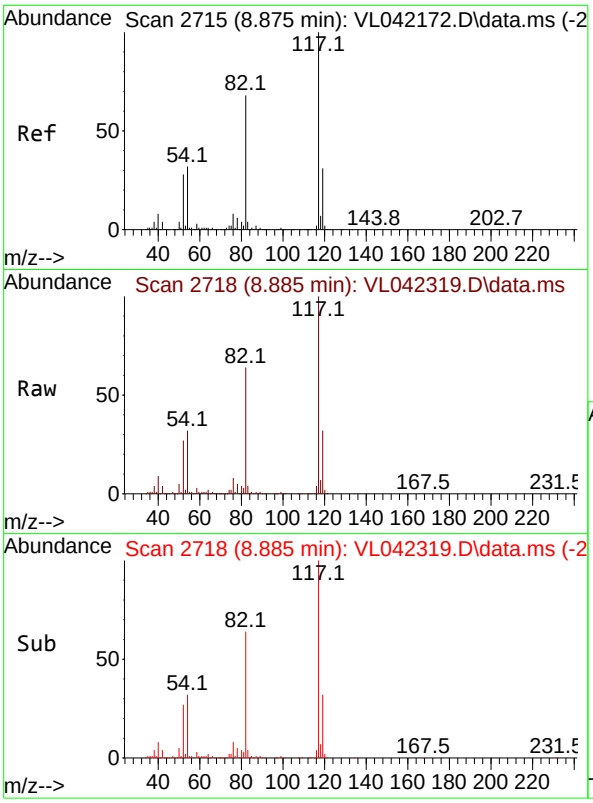




#53
Toluene
Concen: 0.115 ppbv
RT: 6.946 min Scan# 2119
Delta R.T. 0.019 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion: 91 Resp: 6234

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 0.0 | 48.4 | 72.6# |



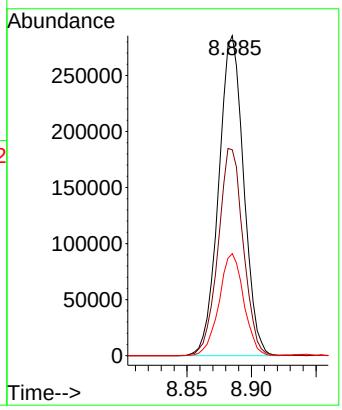


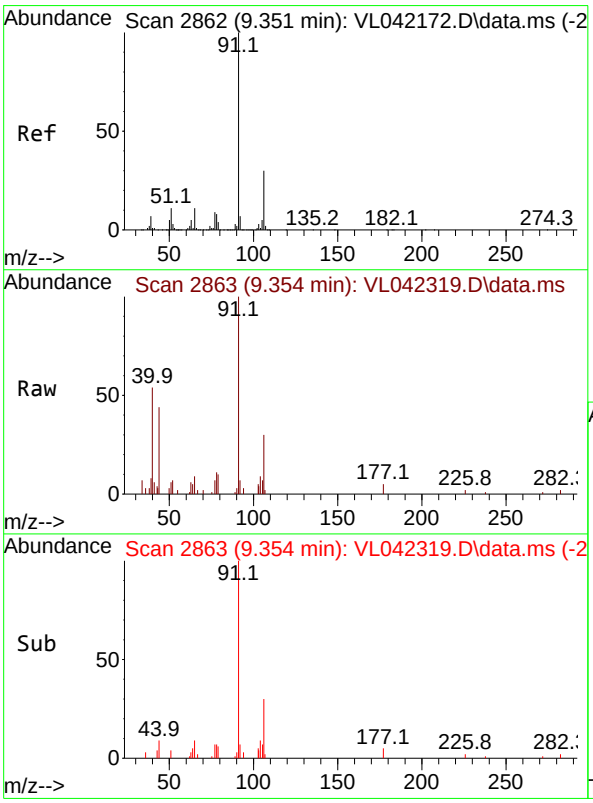

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025

Tgt Ion:117 Resp: 383940

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 65.1 | 55.8 | 83.6 |
| 119 | 31.7 | 25.5 | 38.3 |

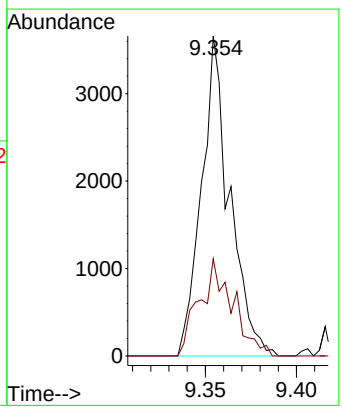


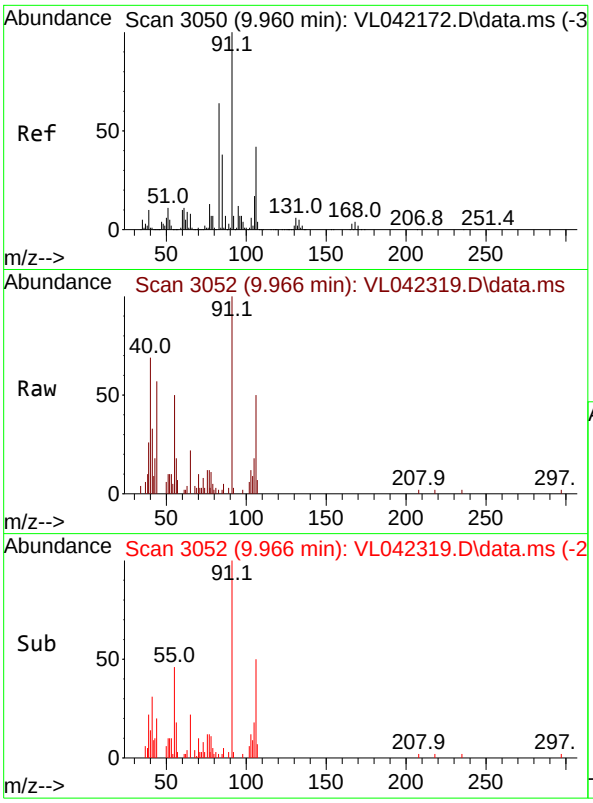




#58
Ethyl Benzene
Concen: 0.058 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion: 91 Resp: 3931

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 32.7 | 24.2 | 36.2 |



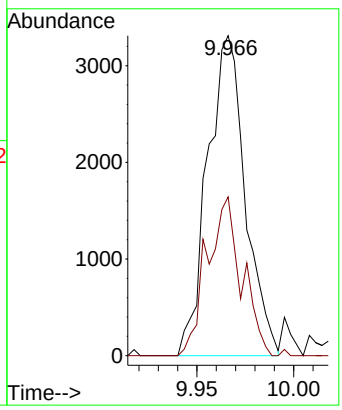


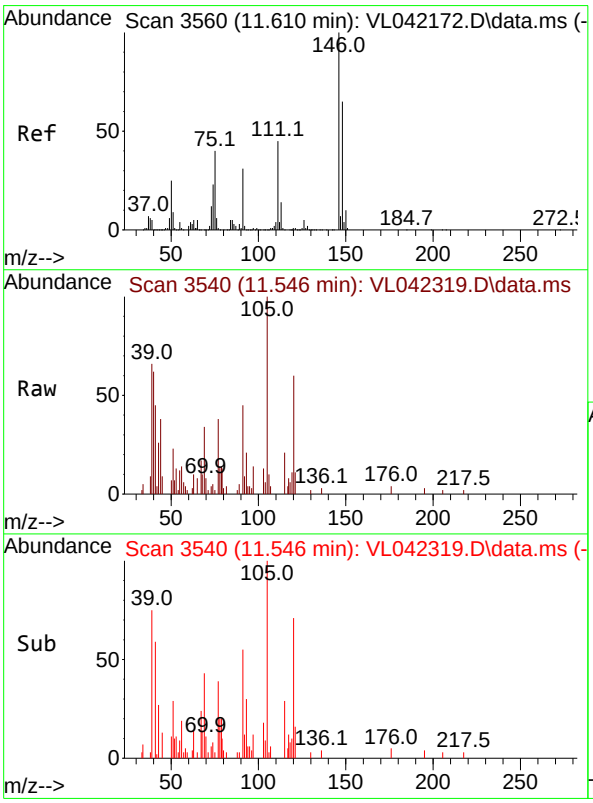

#60
o-Xylene
Concen: 0.082 ppbv
RT: 9.966 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025

Tgt Ion: 91 Resp: 4483

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 46.1 | 20.8 | 62.5 |

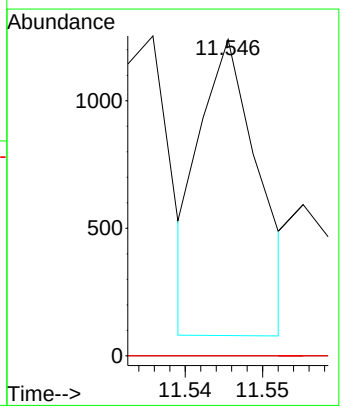


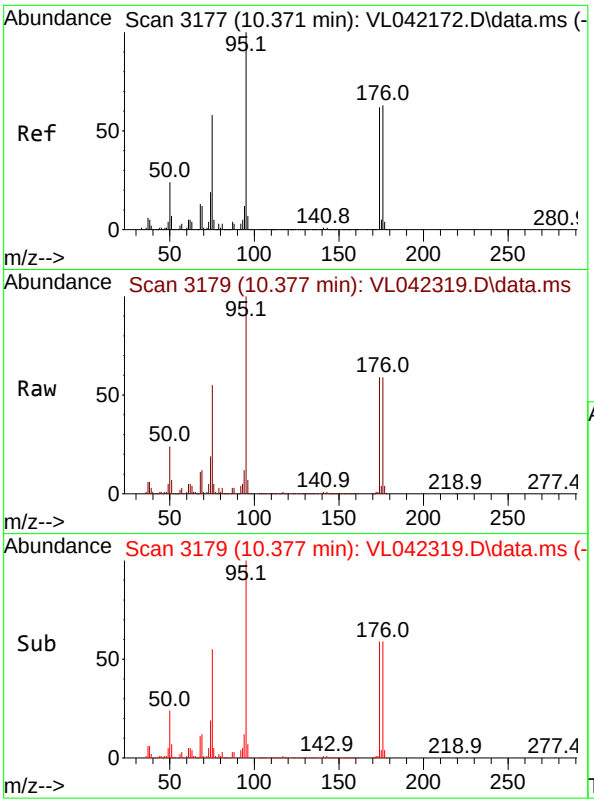




#66
Benzyl Chloride
Concen: 0.076 ppbv
RT: 11.546 min Scan# 3540
Delta R.T. -0.065 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion: 91 Resp: 609

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 0.0 | 13.8 | 20.6# |
| 128 | 3.4 | 4.5 | 6.7# |



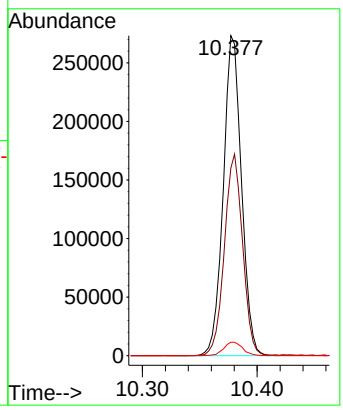


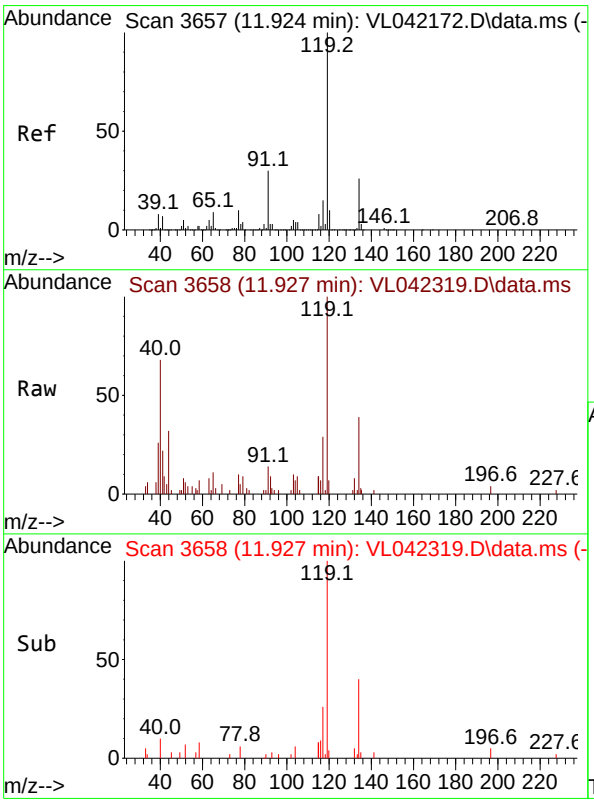

#68
1-Bromo-4-Fluorobenzene
Concen: 9.573 ppbv
RT: 10.377 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025

Tgt Ion: 95 Resp: 301822

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 63.1 | 50.6 | 76.0 |
| 175 | 4.4 | 3.8 | 5.6 |

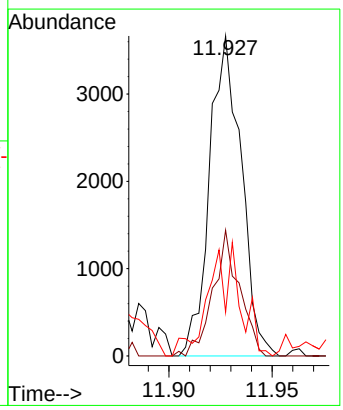


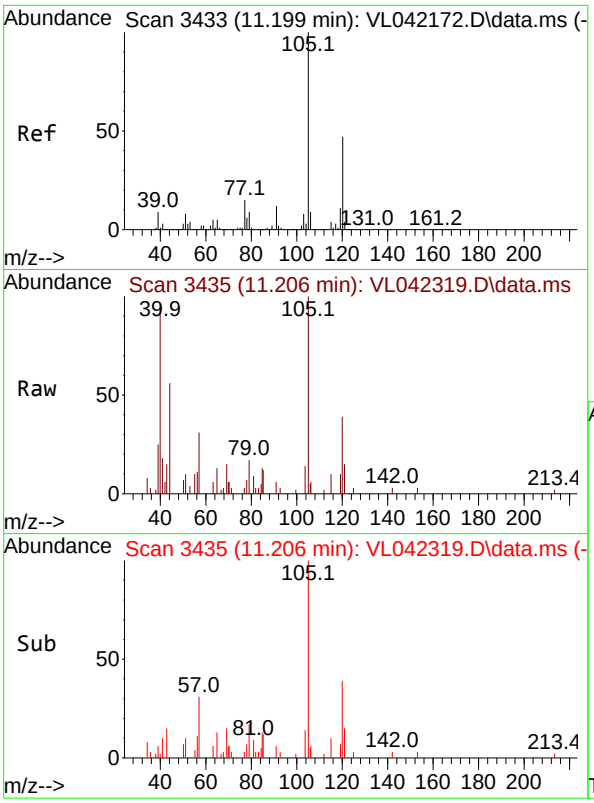




#69
p-Isopropyltoluene
Concen: 0.043 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. 0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion:119 Resp: 3908

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 32.7 | 20.4 | 30.6# |
| 91 | 36.4 | 23.7 | 35.5# |



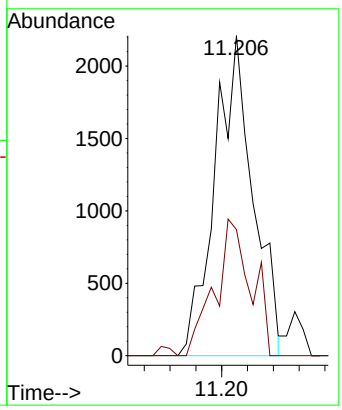


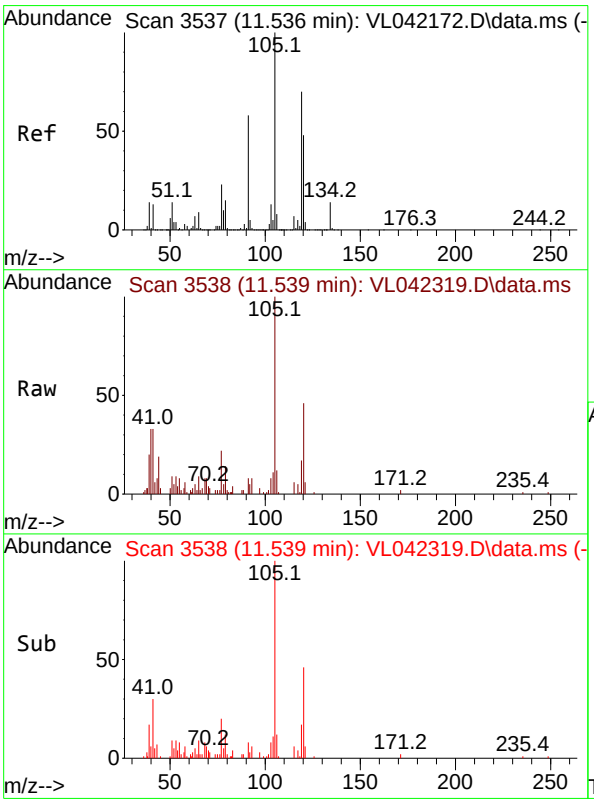

#73
1,3,5-Trimethylbenzene
Concen: 0.038 ppbv
RT: 11.206 min Scan# 34
Delta R.T. 0.006 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025

Tgt Ion:105 Resp: 2285

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 39.4 | 37.4 | 56.0 |

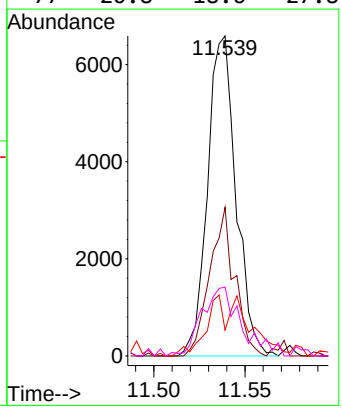


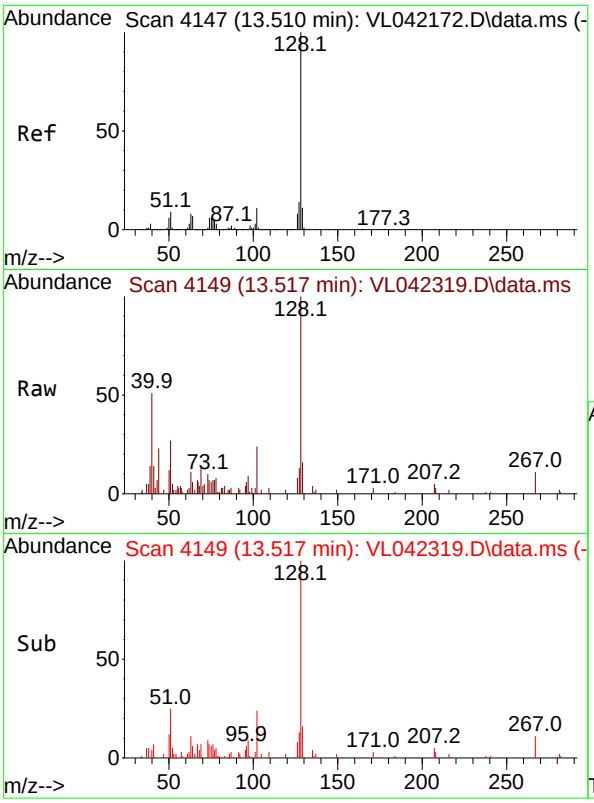




#74
1,2,4-Trimethylbenzene
Concen: 0.105 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.003 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion:105 Resp: 7147

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.5 | 38.6 | 58.0 |
| 91 | 6.7 | 46.2 | 69.2# |
| 77 | 20.8 | 18.6 | 27.8 |



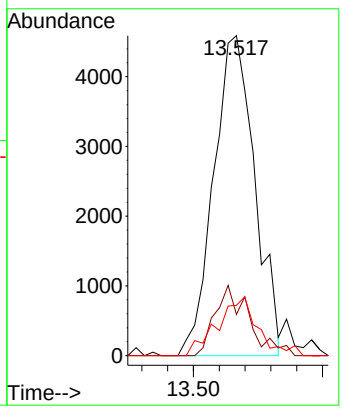


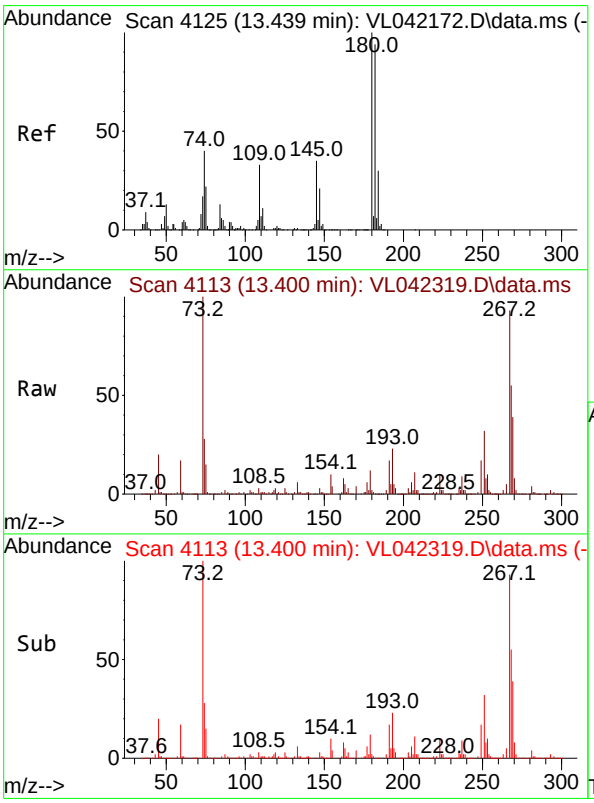

#79
Naphthalene
Concen: 0.068 ppbv
RT: 13.517 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025

Tgt Ion:128 Resp: 5078

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.9 | 10.8 | 16.2 |
| 129 | 15.7 | 9.0 | 13.4# |

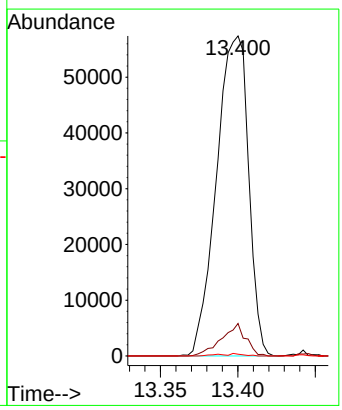



#81
1,2,4-Trichlorobenzene
Concen: 2.392 ppbv
RT: 13.400 min Scan# 4113
Delta R.T. -0.039 min
Lab File: VL042319.D
Acq: 11 Apr 2025 14:27

Tgt Ion:180 Resp: 82529

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 7.7 | 75.1 | 112.7# |
| 184 | 0.5 | 24.4 | 36.6# |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042320.D
Acq On : 11 Apr 2025 15:01
Operator : SY/MD
Sample : Q1665-11
Misc : 400mL/MSVOA_L
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025

Quant Time: Apr 11 23:01:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

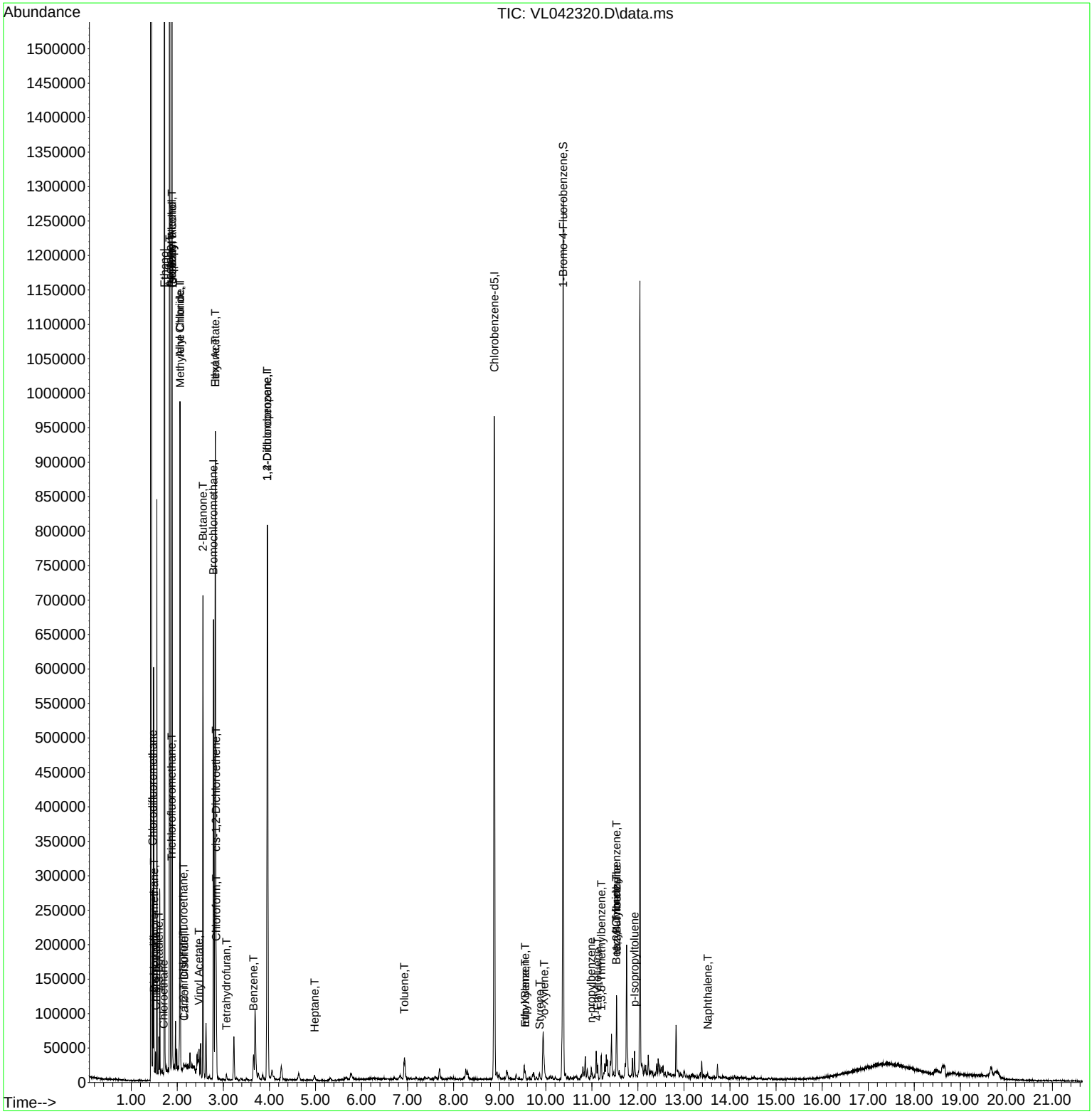
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) Bromochloromethane | 2.787 | 49 | 183875 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.955 | 114 | 460651 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.882 | 117 | 381290 | 10.000 | ppbv | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95 | 314052 | 10.030 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 100.300% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.496 | 85 | 11636 | 0.429 | ppbv | | 90 |
| 3) Chlorodifluoromethane | 1.466 | 51 | 68850 | 2.482 | ppbv | # | 64 |
| 4) Chloromethane | 1.531 | 50 | 6489 | 0.585 | ppbv | # | 86 |
| 7) Chloroethane | 1.703 | 64 | 241 | 0.054 | ppbv | # | 78 |
| 9) Propene | 1.884 | 41 | 70001 | 5.507 | ppbv | | 90 |
| 10) Heptane | 4.981 | 43 | 1831 | 0.054 | ppbv | # | 73 |
| 11) Trichlorofluoromethane | 1.877 | 101 | 5866 | 0.222 | ppbv | | 100 |
| 12) 1,1,2-Trichlorotrifluo... | 2.136 | 101 | 1596 | 0.074 | ppbv | | 91 |
| 13) Ethanol | 1.722 | 45 | 1300122 | 1081.877 | ppbv | | 88 |
| 15) Acetone | 1.832 | 43 | 2018088 | 78.476 | ppbv | # | 79 |
| 16) 1,3-Butadiene | 1.599 | 39 | 5944 | 0.473 | ppbv | # | 38 |
| 17) tert-Butyl alcohol | 1.887 | 59 | 28350 | 0.885 | ppbv | | 96 |
| 19) Isopropyl Alcohol | 1.884 | 45 | 743440 | 51.238 | ppbv | # | 5 |
| 20) Methylene Chloride | 2.062 | 84 | 141997 | 14.826 | ppbv | | 96 |
| 21) Allyl Chloride | 2.059 | 41 | 5466 | 0.301 | ppbv | # | 21 |
| 23) Vinyl Acetate | 2.470 | 43 | 9354 | 0.840 | ppbv | # | 55 |
| 25) Ethyl Acetate | 2.826 | 43 | 195625 | 2.931 | ppbv | # | 85 |
| 26) Hexane | 2.826 | 57 | 208675 | 8.094 | ppbv | # | 41 |
| 27) Carbon Disulfide | 2.149 | 76 | 1070 | 0.039 | ppbv | # | 1 |
| 29) Chloroform | 2.848 | 83 | 40045 | 1.061 | ppbv | | 96 |
| 31) cis-1,2-Dichloroethene | 2.839 | 61 | 6478 | 0.248 | ppbv | # | 25 |
| 34) 2-Butanone | 2.557 | 43 | 411404 | 12.316 | ppbv | | 98 |
| 36) Benzene | 3.654 | 78 | 21158 | 0.463 | ppbv | | 98 |
| 39) 1,2-Dichloropropane | 3.955 | 63 | 115727 | 6.958 | ppbv | # | 22 |
| 41) Tetrahydrofuran | 3.065 | 42 | 2565 | 0.133 | ppbv | # | 59 |
| 53) Toluene | 6.930 | 91 | 14263 | 0.263 | ppbv | # | 59 |
| 58) Ethyl Benzene | 9.552 | 91 | 2141 | 0.032 | ppbv | | 95 |
| 59) m/p-Xylene | 9.552 | 91 | 2141 | 0.040 | ppbv | # | 31 |
| 60) o-Xylene | 9.966 | 91 | 7975 | 0.147 | ppbv | | 99 |
| 61) Styrene | 9.869 | 104 | 1381 | 0.051 | ppbv | # | 86 |
| 64) n-propylbenzene | 10.985 | 120 | 1262 | 0.060 | ppbv | | 77 |
| 65) tert-Butylbenzene | 11.539 | 119 | 5633 | 0.075 | ppbv | # | 71 |
| 66) Benzyl Chloride | 11.532 | 91 | 5835 | 0.733 | ppbv | # | 66 |
| 69) p-Isopropyltoluene | 11.927 | 119 | 10393 | 0.116 | ppbv | # | 90 |
| 72) 4-Ethyltoluene | 11.125 | 105 | 7507 | 0.111 | ppbv | # | 64 |
| 73) 1,3,5-Trimethylbenzene | 11.205 | 105 | 9483 | 0.161 | ppbv | | 96 |
| 74) 1,2,4-Trimethylbenzene | 11.536 | 105 | 38801 | 0.571 | ppbv | # | 68 |
| 79) Naphthalene | 13.516 | 128 | 2510 | 0.034 | ppbv | # | 88 |

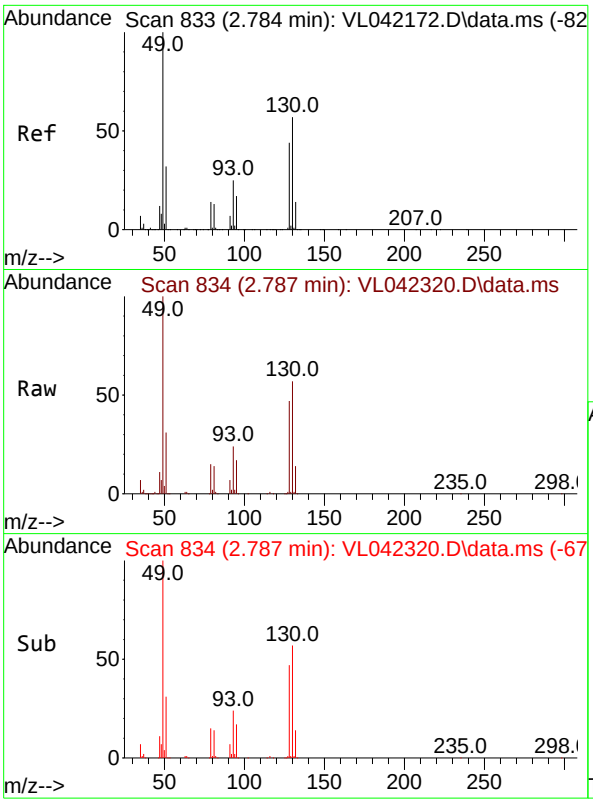
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042320.D
Acq On : 11 Apr 2025 15:01
Operator : SY/MD
Sample : Q1665-11
Misc : 400mL/MSVOA_L
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025

Quant Time: Apr 11 23:01:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration



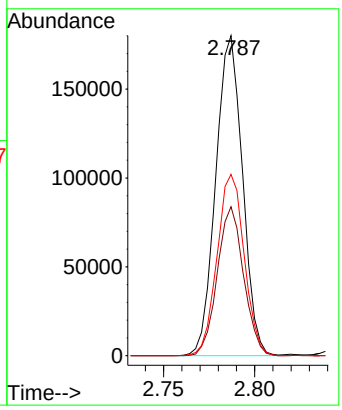


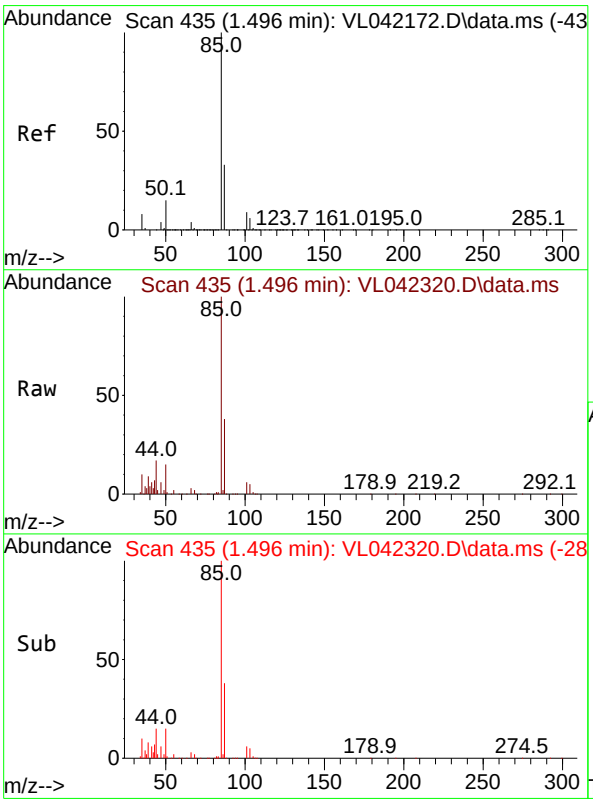

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025

Tgt Ion: 49 Resp: 183875

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 45.7 | 22.9 | 68.5 |
| 130 | 57.5 | 28.8 | 86.4 |

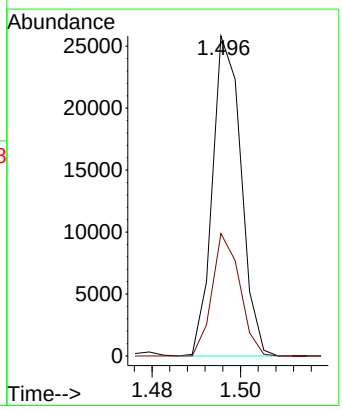


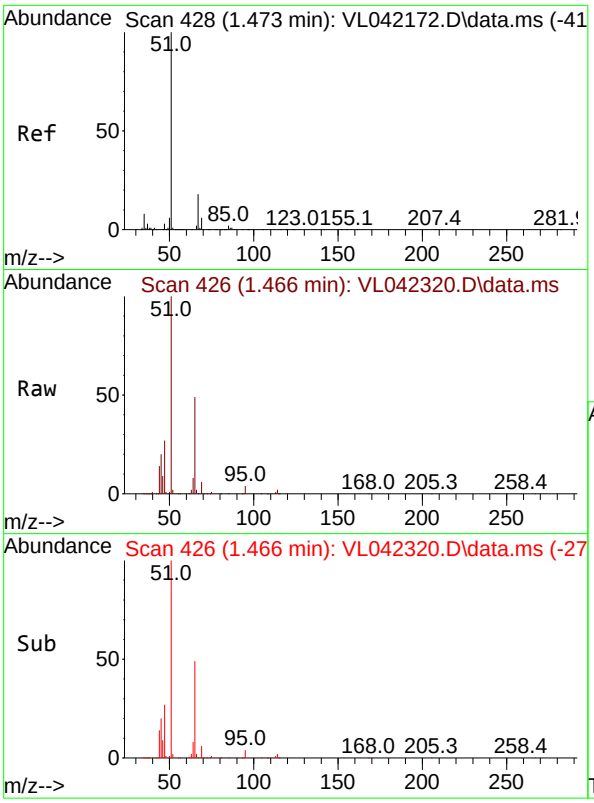




#2
Dichlorodifluoromethane
Concen: 0.429 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion: 85 Resp: 11636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 38.2 | 26.1 | 39.1 |



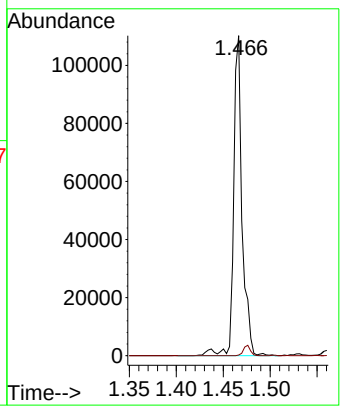


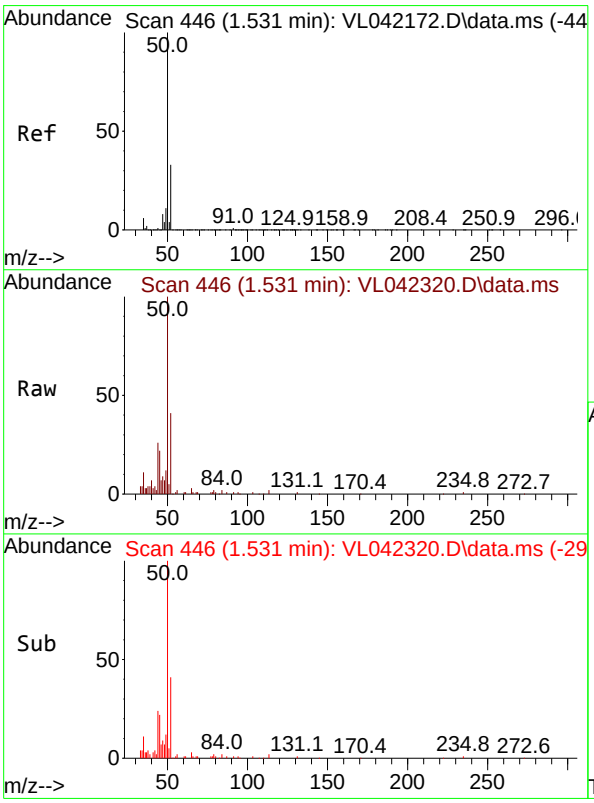

#3
Chlorodifluoromethane
Concen: 2.482 ppbv
RT: 1.466 min Scan# 4
Delta R.T. -0.007 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025

Tgt Ion: 51 Resp: 68850

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 2.7 | 15.0 | 22.6# |

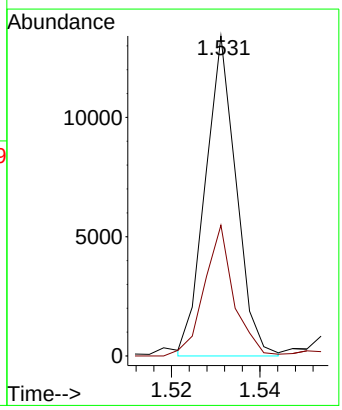


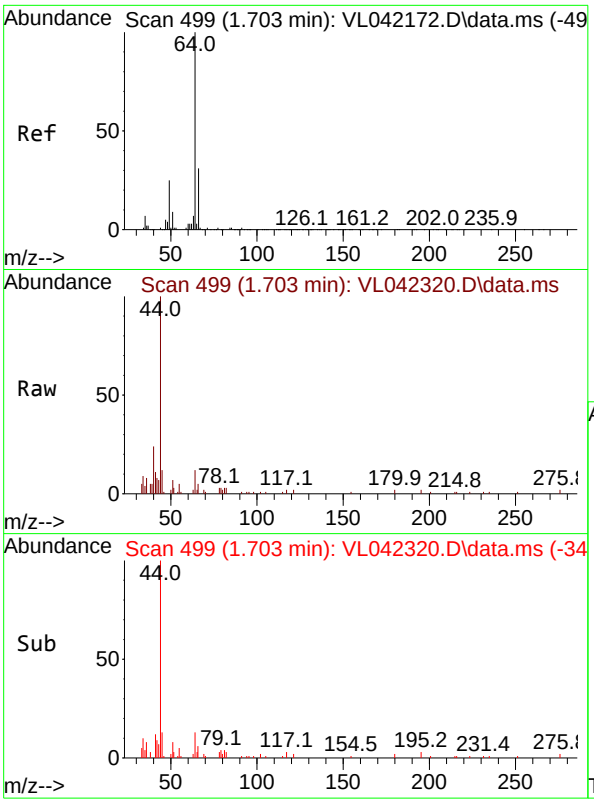




#4
Chloromethane
Concen: 0.585 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion: 50 Resp: 6489

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 40.7 | 26.1 | 39.1# |



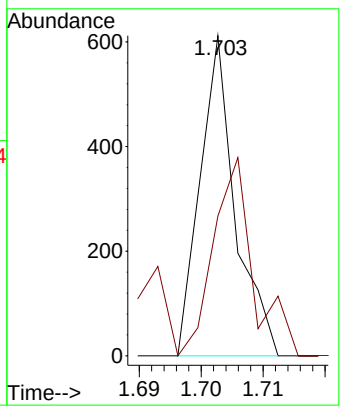


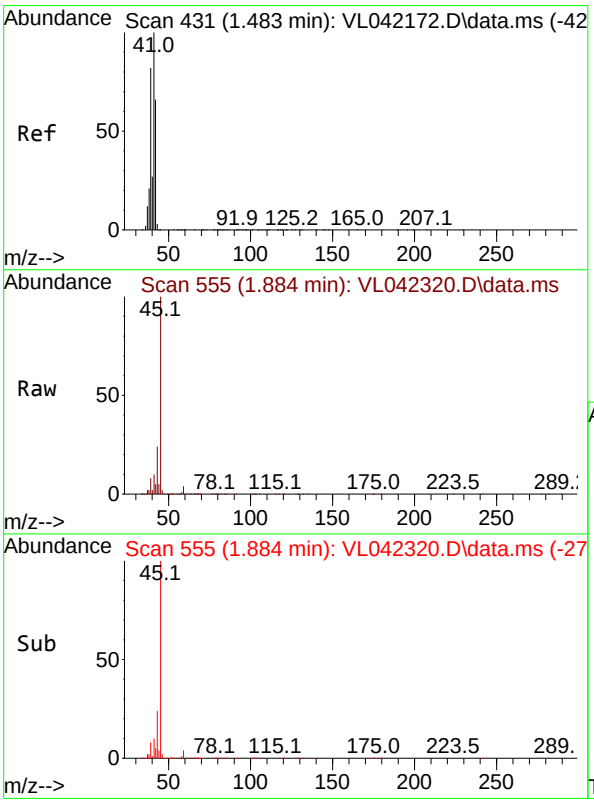

#7
Chloroethane
Concen: 0.054 ppbv
RT: 1.703 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025

Tgt Ion: 64 Resp: 241

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 43.6 | 25.2 | 37.8# |

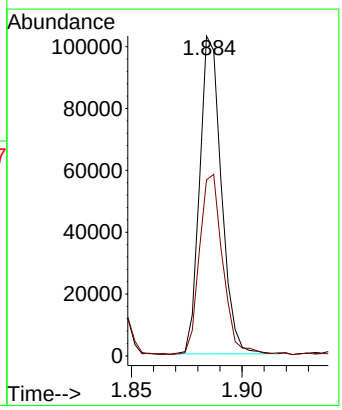


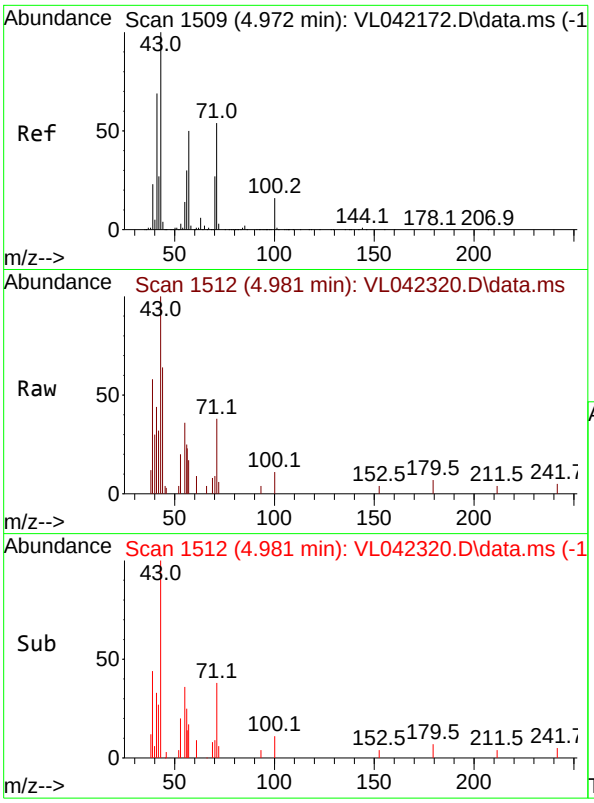




#9
Propene
Concen: 5.507 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.401 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion: 41 Resp: 70001

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 61.0 | 55.4 | 83.2 |



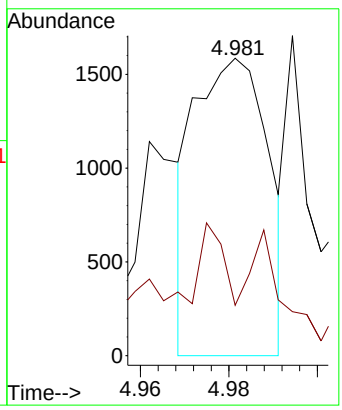


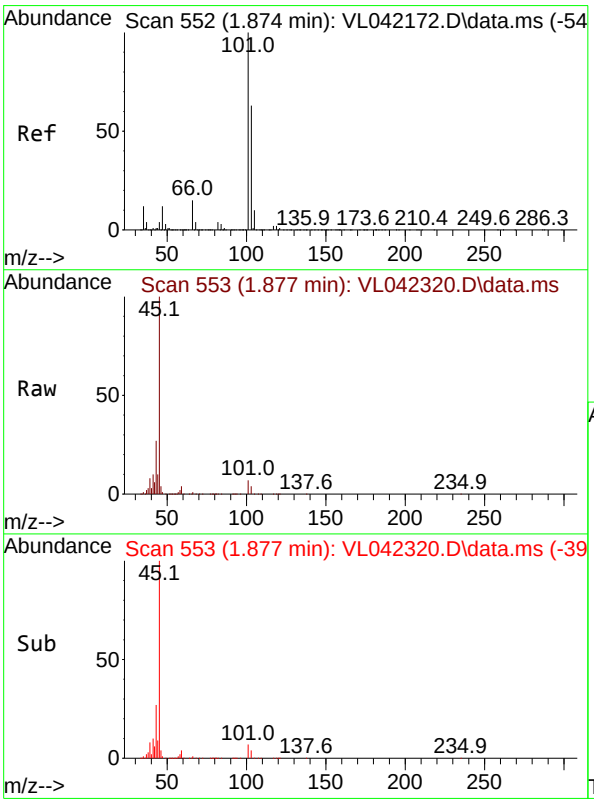

#10
Heptane
Concen: 0.054 ppbv
RT: 4.981 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025

Tgt Ion: 43 Resp: 1831

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 67.6 | 39.4 | 59.2# |

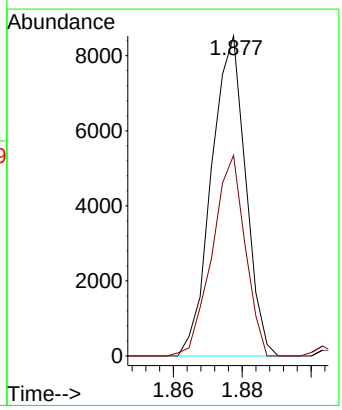


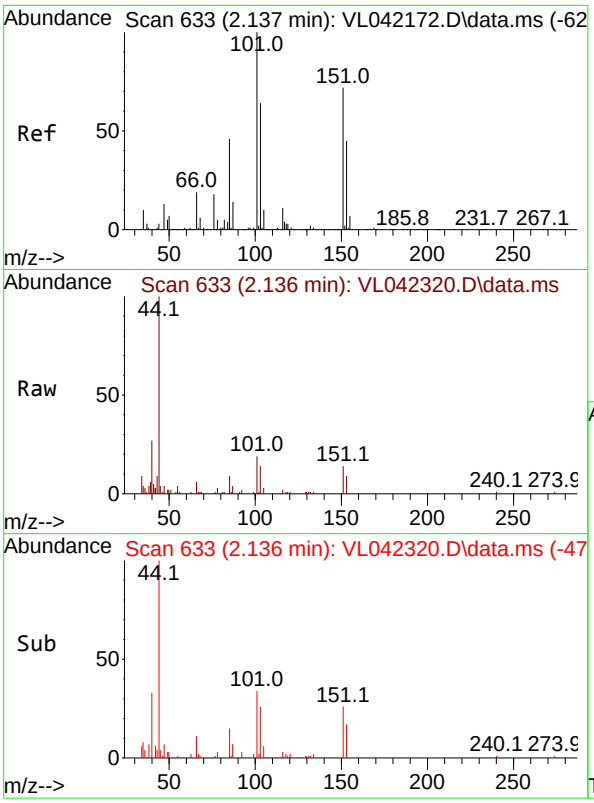




#11
Trichlorofluoromethane
Concen: 0.222 ppbv
RT: 1.877 min Scan# 553
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion:101 Resp: 5866

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 62.7 | 50.2 | 75.2 |



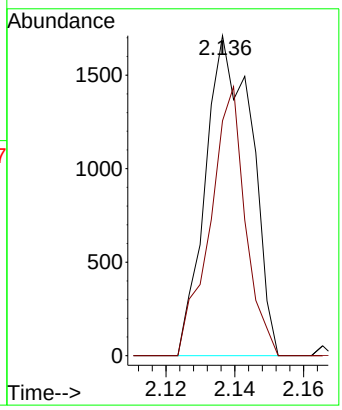


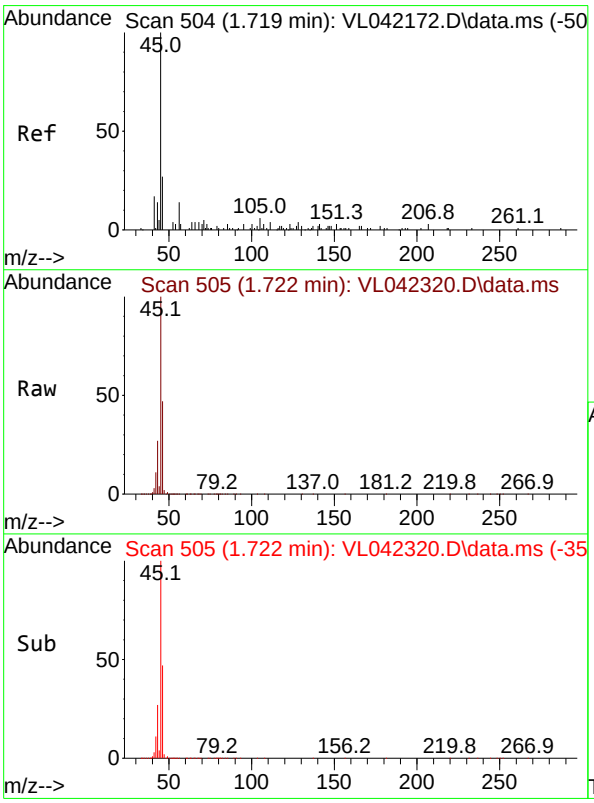

#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.074 ppbv
RT: 2.136 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025

Tgt Ion:101 Resp: 1596

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 64.2 | 57.1 | 85.7 |

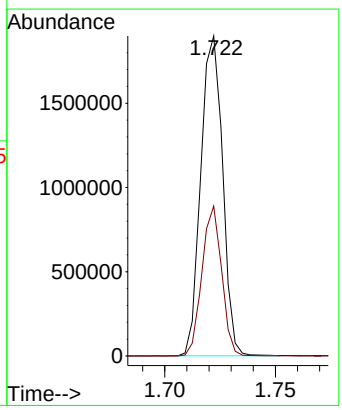


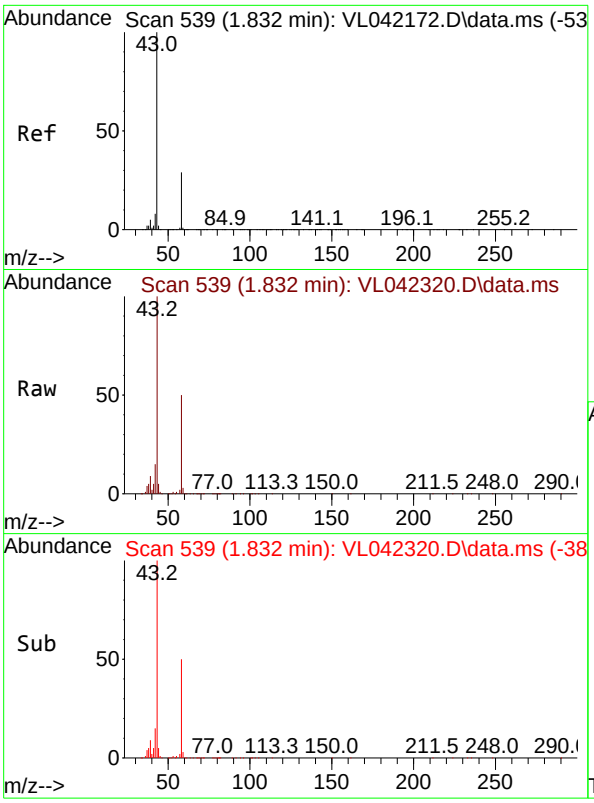




#13
Ethanol
Concen: 1081.877 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion: 45 Resp: 1300122

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 42.5 | 20.2 | 80.8 |



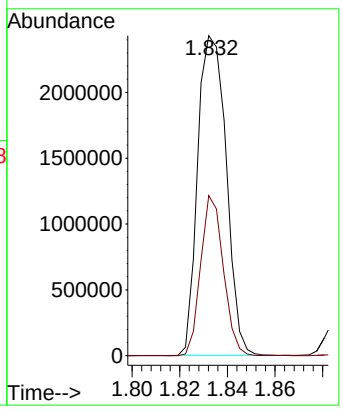


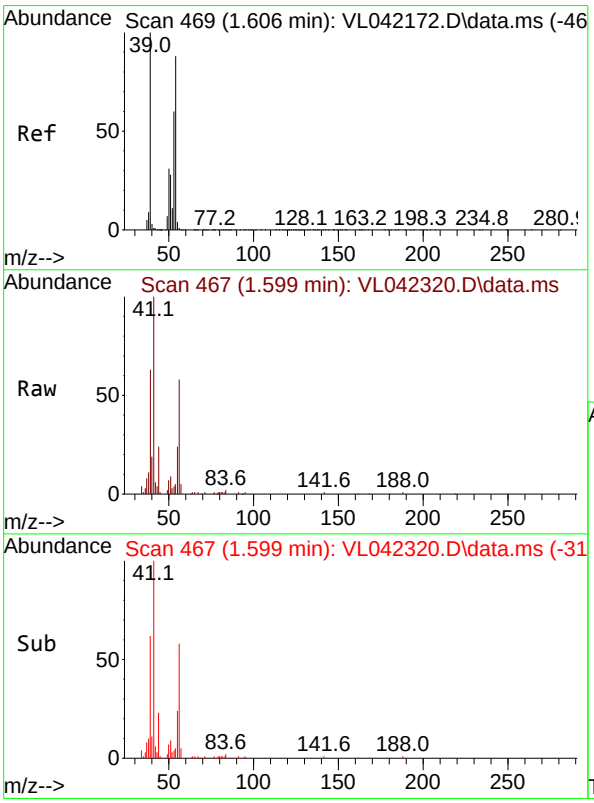

#15
Acetone
Concen: 78.476 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025

Tgt Ion: 43 Resp: 2018088

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 40.0 | 23.2 | 34.8# |

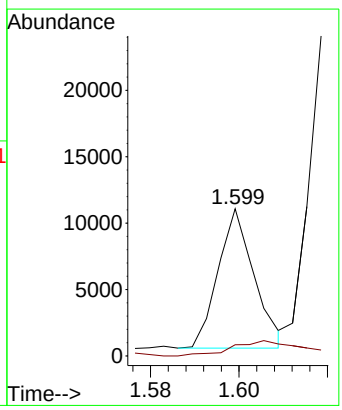


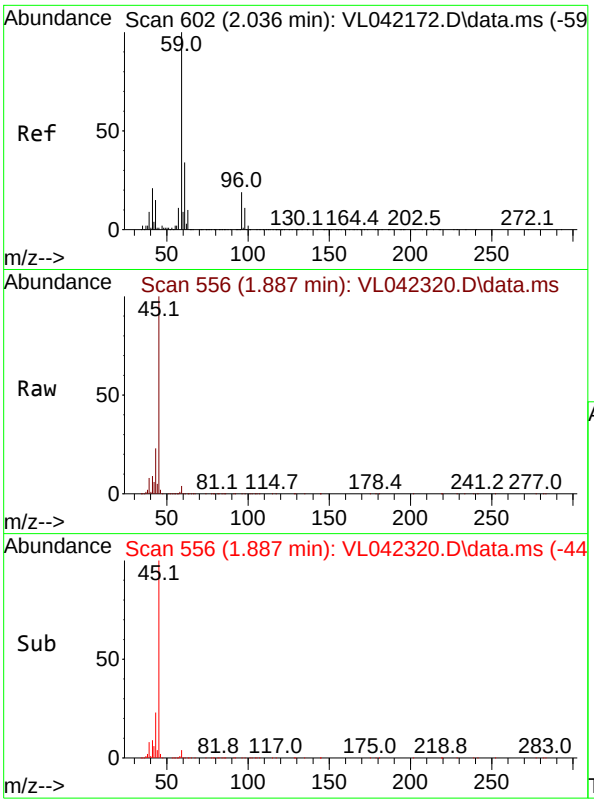




#16
1,3-Butadiene
Concen: 0.473 ppbv
RT: 1.599 min Scan# 467
Delta R.T. -0.007 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion: 39 Resp: 5944

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 22.6 | 60.7 | 91.1# |



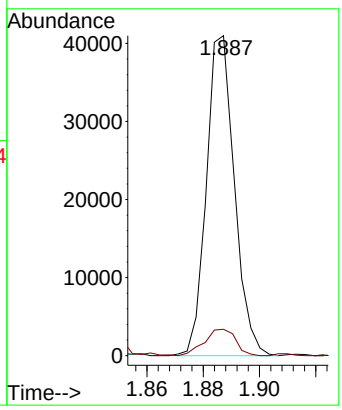


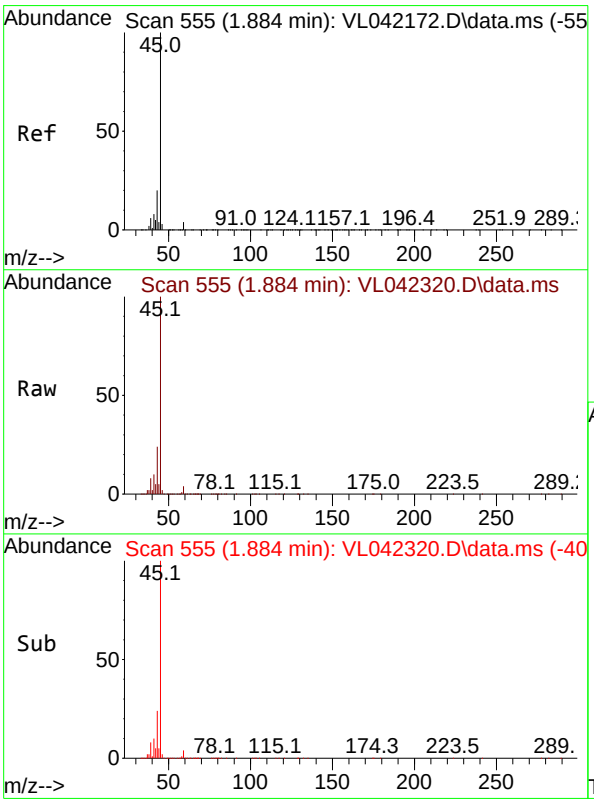

#17
tert-Butyl alcohol
Concen: 0.885 ppbv
RT: 1.887 min Scan# 5
Delta R.T. -0.149 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025

Tgt Ion: 59 Resp: 28350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 9.6 | 8.9 | 13.3 |

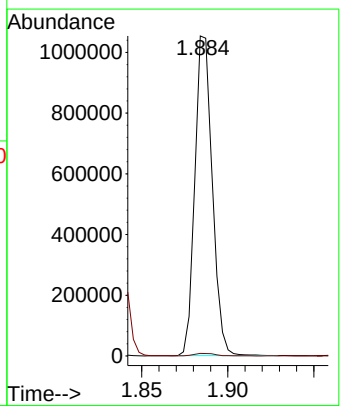


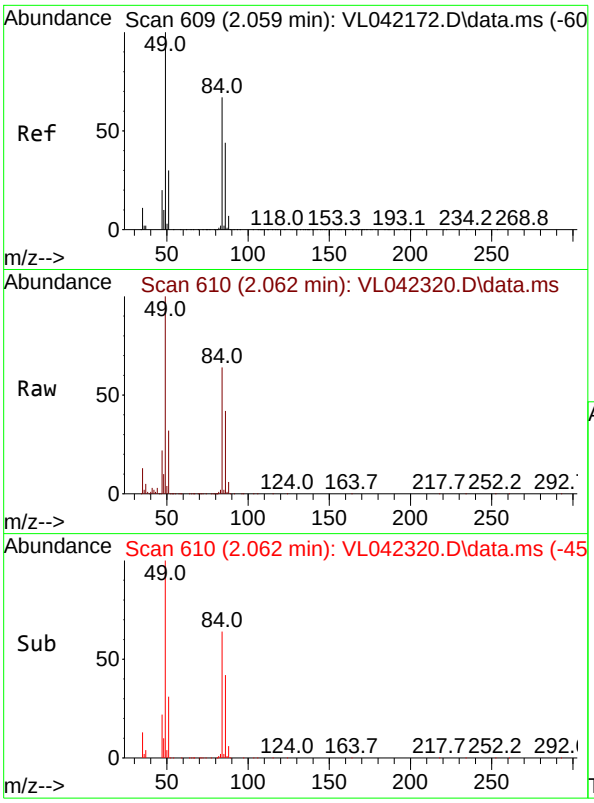




#19
Isopropyl Alcohol
Concen: 51.238 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion: 45 Resp: 743440

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 108.7 | 36.9 | 55.3# |



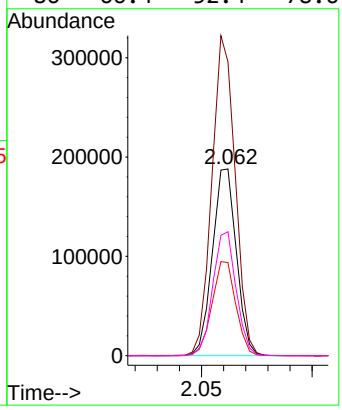


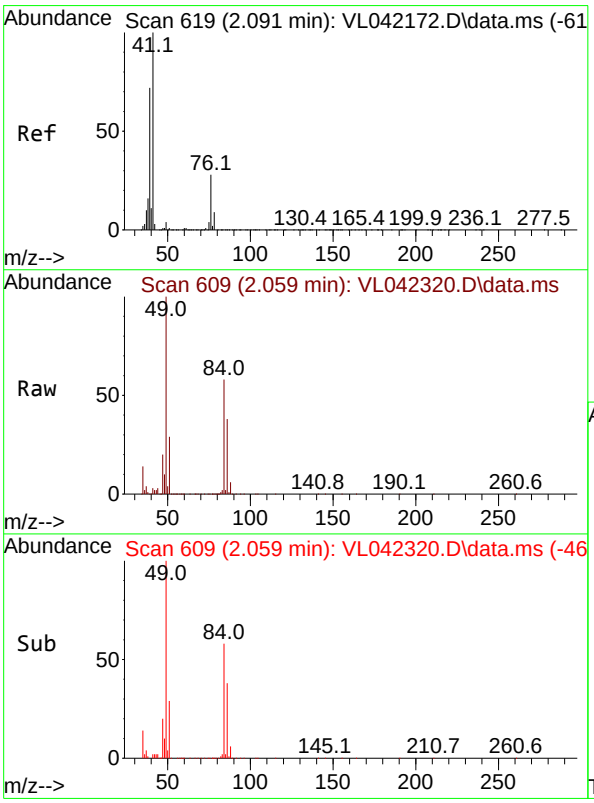

#20
Methylene Chloride
Concen: 14.826 ppbv
RT: 2.062 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025

Tgt Ion: 84 Resp: 141997

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 157.4 | 120.2 | 180.4 |
| 51 | 49.9 | 37.4 | 56.0 |
| 86 | 66.4 | 52.4 | 78.6 |

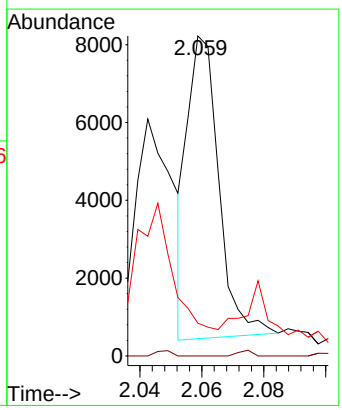


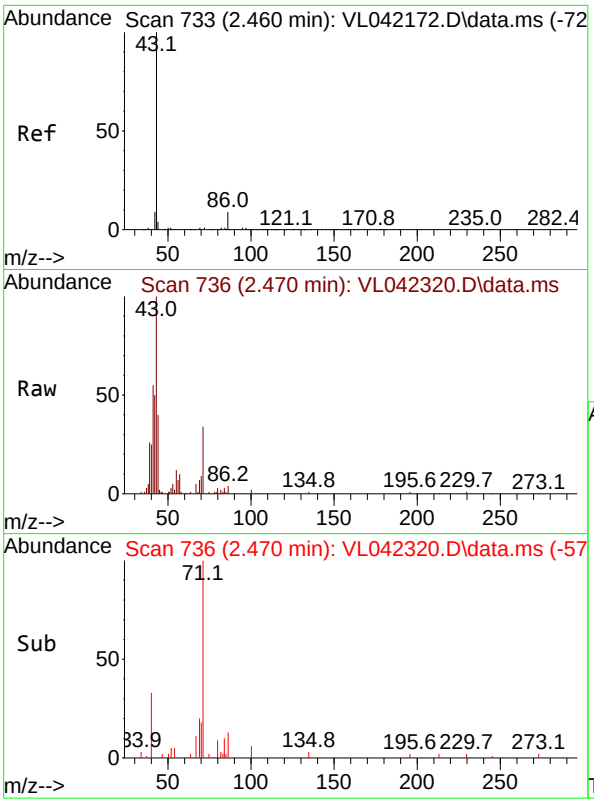




#21
Allyl Chloride
Concen: 0.301 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.033 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion: 41 Resp: 5466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 0.0 | 24.1 | 36.1# |
| 39 | 0.0 | 61.1 | 91.7# |



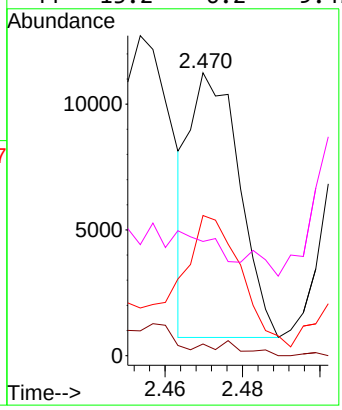


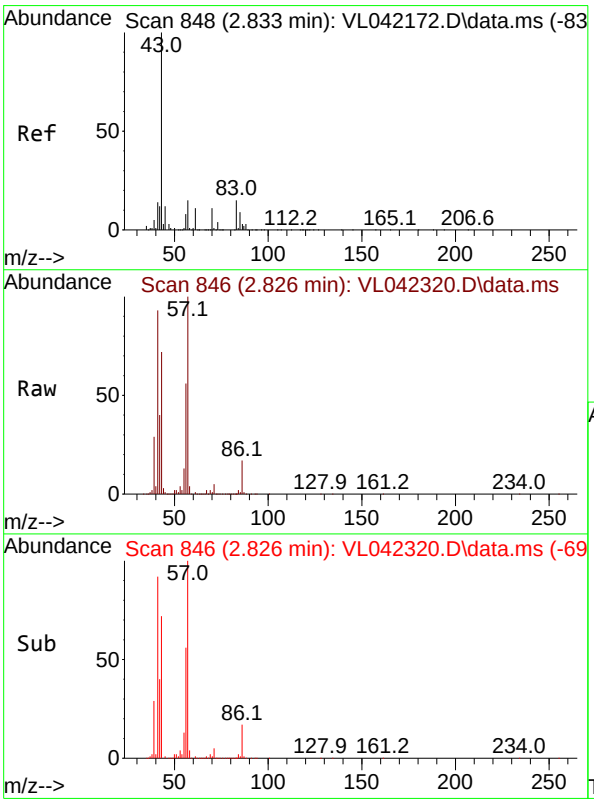

#23
Vinyl Acetate
Concen: 0.840 ppbv
RT: 2.470 min Scan# 7
Delta R.T. 0.010 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025

Tgt Ion: 43 Resp: 9354

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 4.4 | 5.5 | 8.3# |
| 42 | 45.5 | 8.6 | 13.0# |
| 44 | 13.2 | 6.2 | 9.4# |

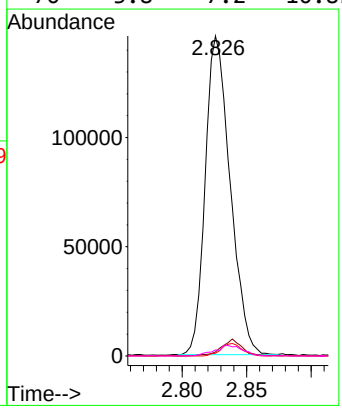


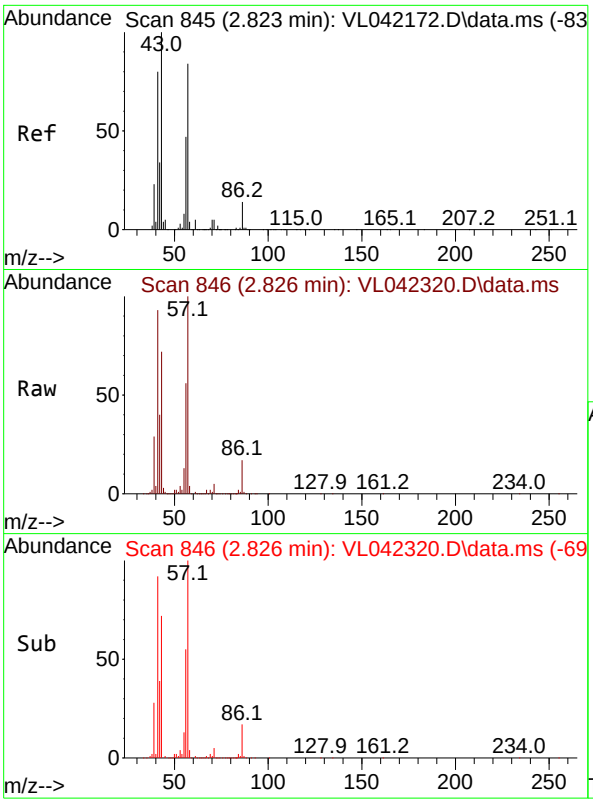




#25
Ethyl Acetate
Concen: 2.931 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.007 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion: 43 Resp: 195625

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 4.7 | 8.2 | 12.2# |
| 61 | 3.3 | 7.3 | 10.9# |
| 70 | 3.8 | 7.2 | 10.8# |



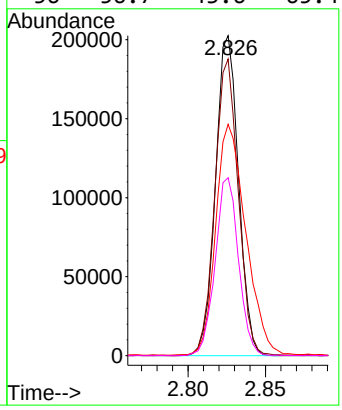


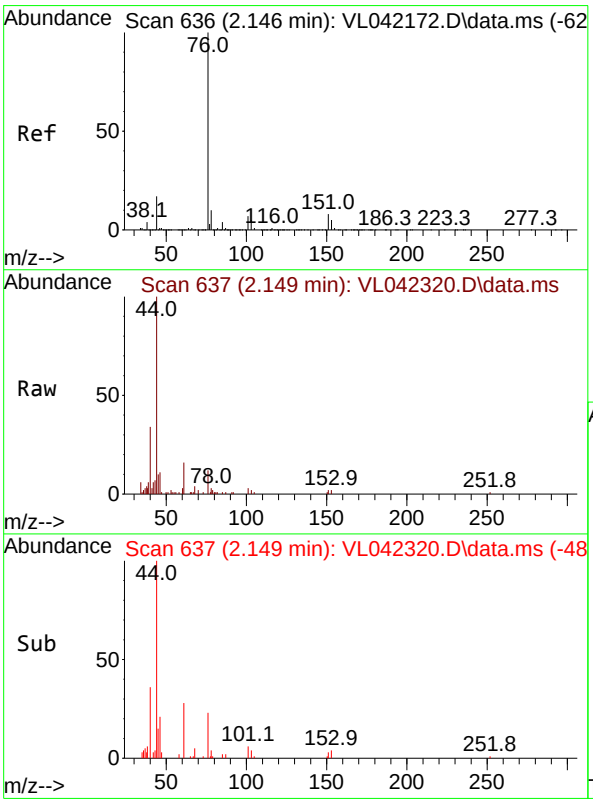

#26
Hexane
Concen: 8.094 ppbv
RT: 2.826 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025

Tgt Ion: 57 Resp: 208675

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 94.9 | 76.6 | 114.8 |
| 43 | 94.7 | 207.8 | 311.8# |
| 56 | 56.7 | 43.6 | 65.4 |

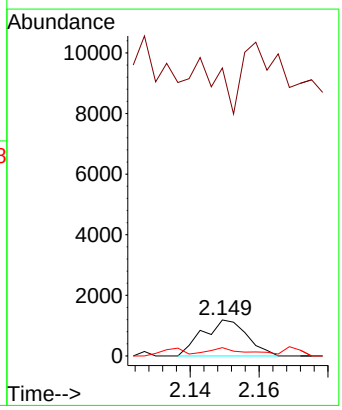


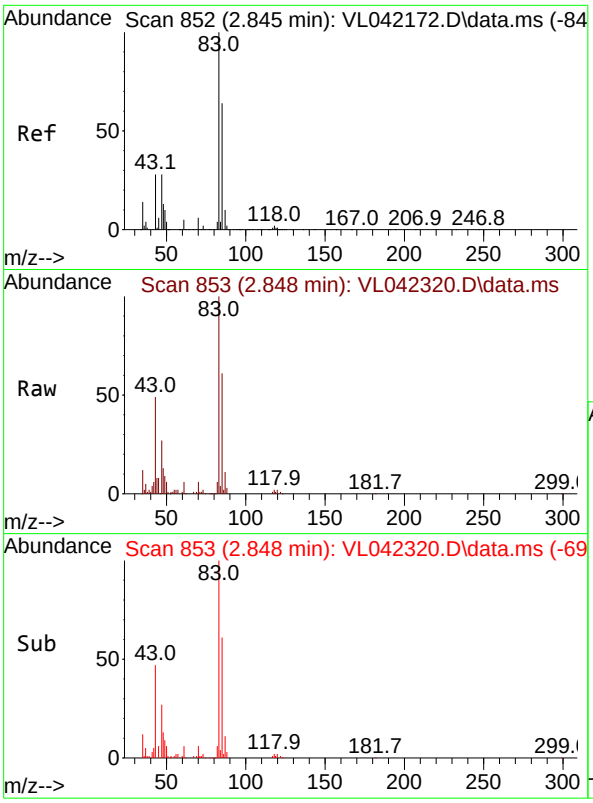




#27
Carbon Disulfide
Concen: 0.039 ppbv
RT: 2.149 min Scan# 637
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion: 76 Resp: 1070

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 350.6 | 14.7 | 22.1# |
| 78 | 31.0 | 9.3 | 13.9# |



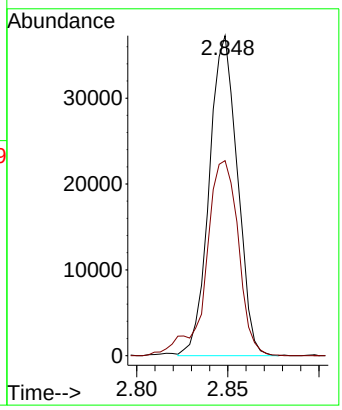


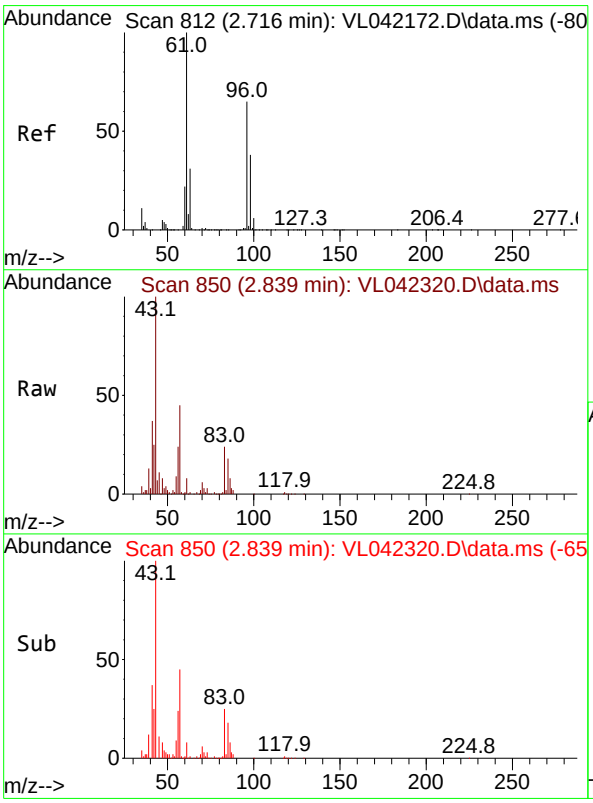

#29
Chloroform
Concen: 1.061 ppbv
RT: 2.848 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025

Tgt Ion: 83 Resp: 40045

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 60.9 | 51.4 | 77.2 |

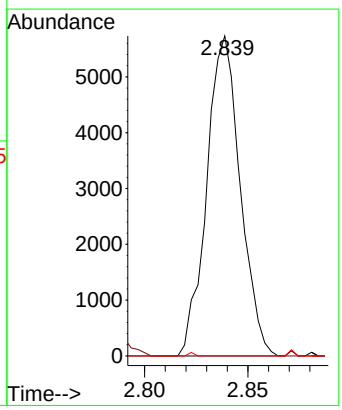


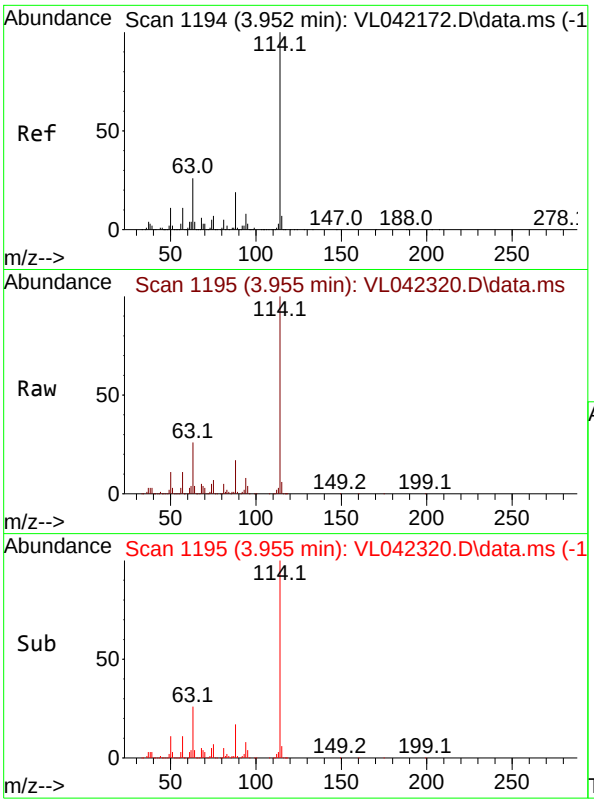




#31
cis-1,2-Dichloroethene
Concen: 0.248 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.123 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion: 61 Resp: 6478

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 0.0 | 51.8 | 77.8# |
| 98 | 0.0 | 30.6 | 46.0# |



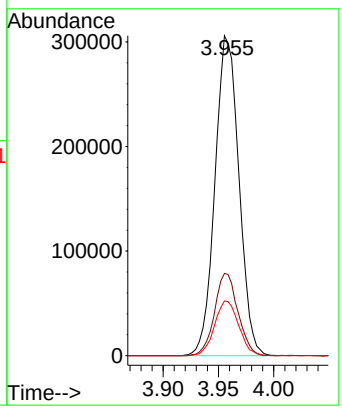


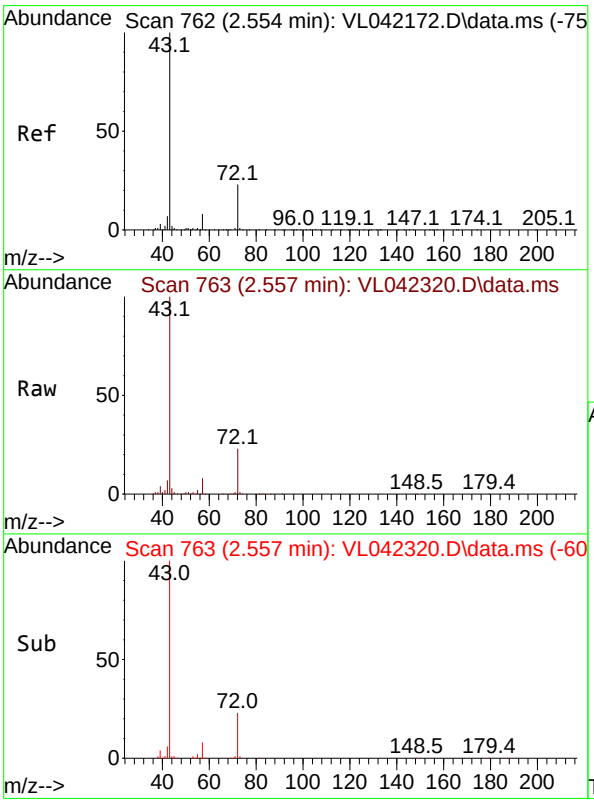

#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025

Tgt Ion:114 Resp: 460651

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.2 | 20.7 | 31.1 |
| 88 | 17.2 | 15.0 | 22.4 |

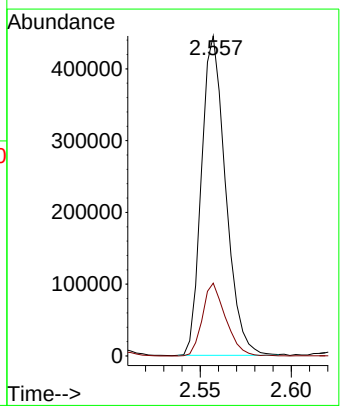


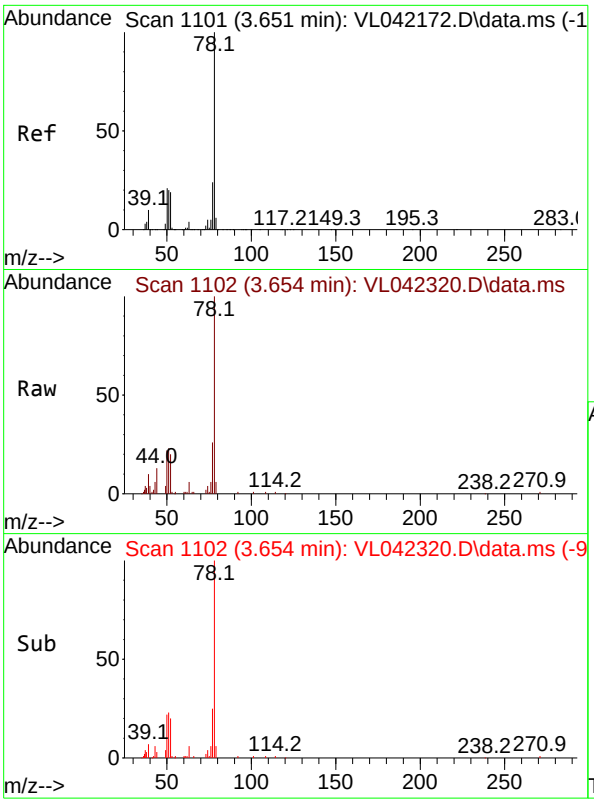




#34
2-Butanone
Concen: 12.316 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion: 43 Resp: 411404

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 21.9 | 18.2 | 27.2 |



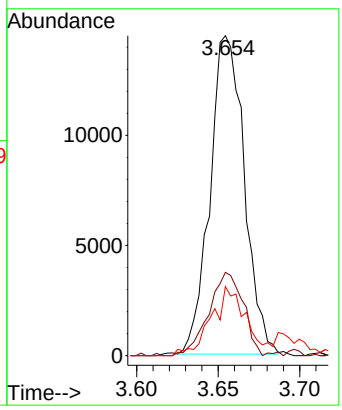


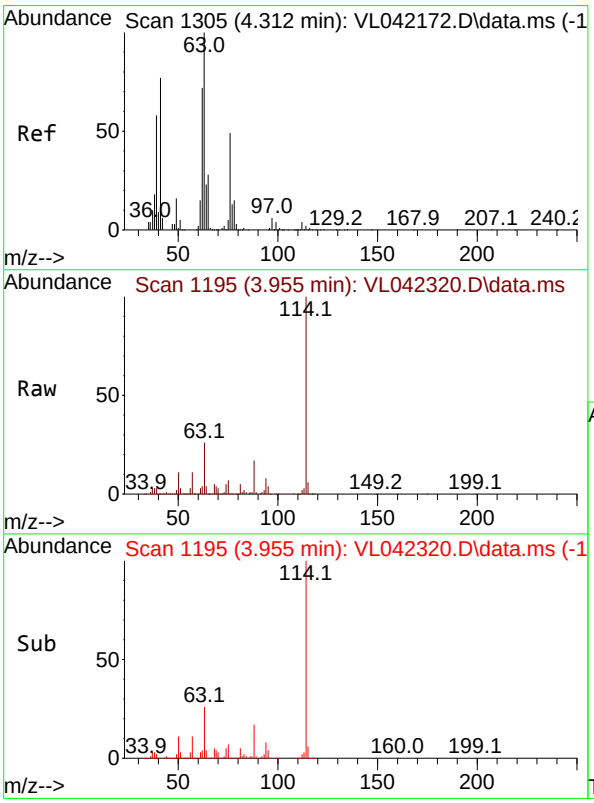

#36
Benzene
Concen: 0.463 ppbv
RT: 3.654 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025

Tgt Ion: 78 Resp: 21158

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 25.2 | 19.1 | 28.7 |
| 50 | 19.8 | 16.6 | 24.8 |

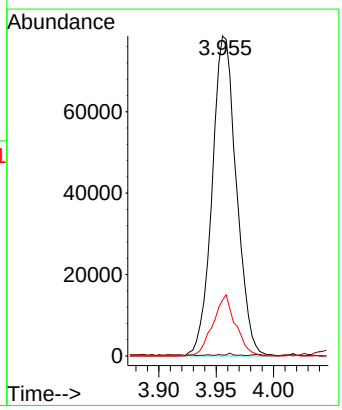


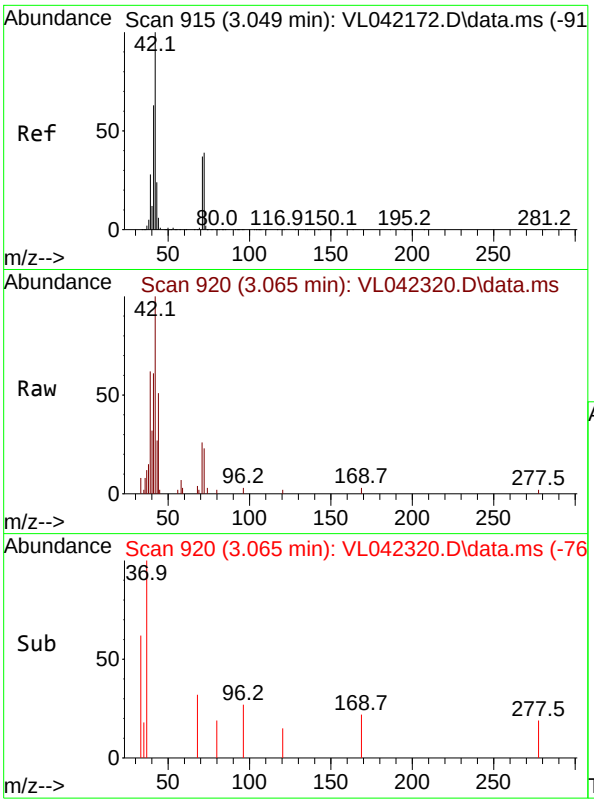




#39
1,2-Dichloropropane
Concen: 6.958 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.356 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion: 63 Resp: 115727

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 0.2 | 61.7 | 92.5# |
| 62 | 17.4 | 57.6 | 86.4# |



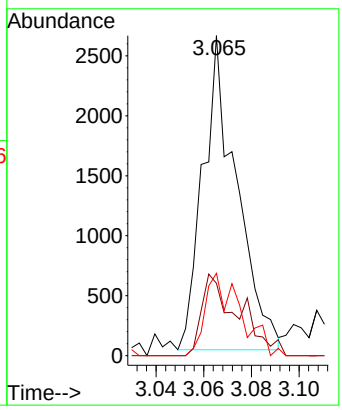


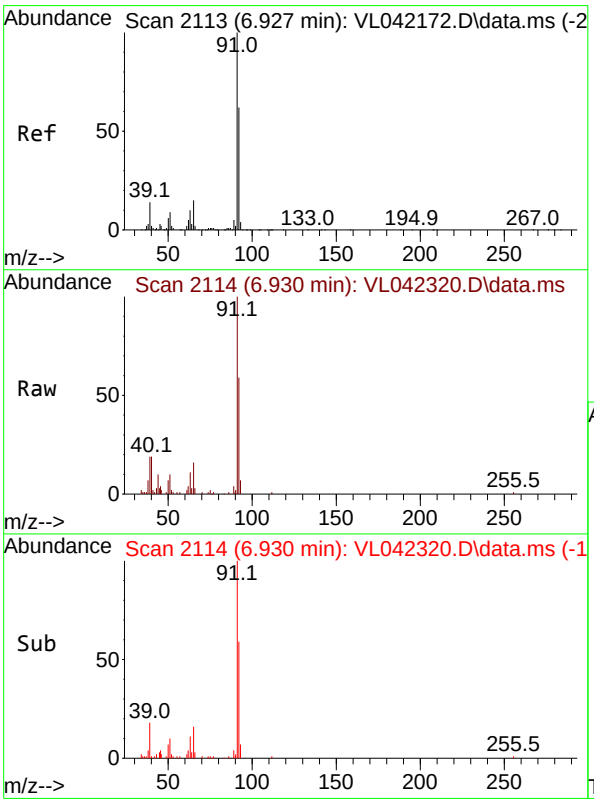

#41
Tetrahydrofuran
Concen: 0.133 ppbv
RT: 3.065 min Scan# 9
Delta R.T. 0.016 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025

Tgt Ion: 42 Resp: 2565

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 0.0 | 31.4 | 47.0# |
| 71 | 27.4 | 30.2 | 45.4# |

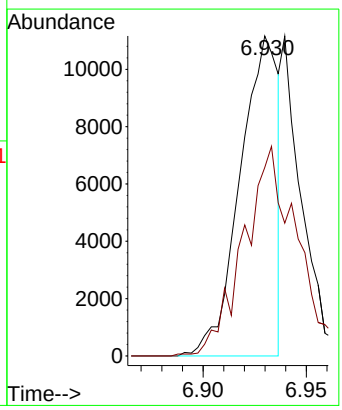


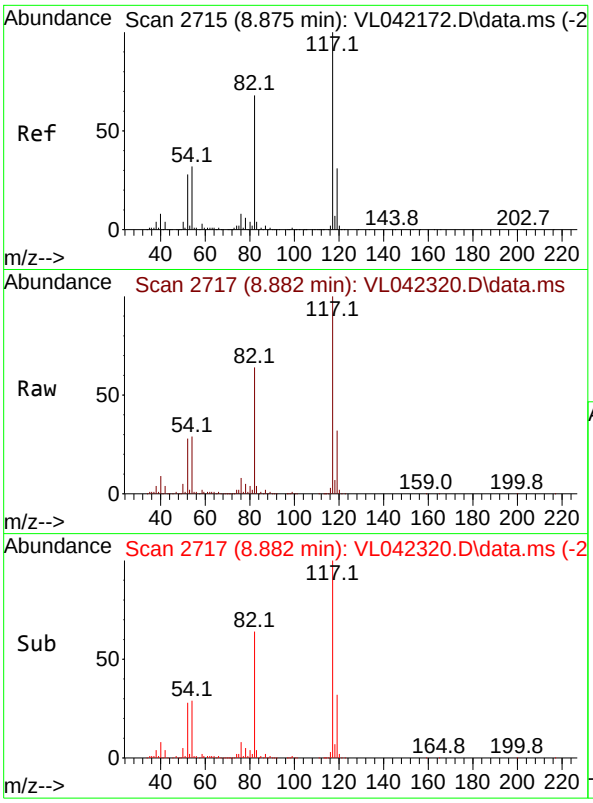




#53
Toluene
Concen: 0.263 ppbv
RT: 6.930 min Scan# 2114
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion: 91 Resp: 14263

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 91.7 | 48.4 | 72.6# |



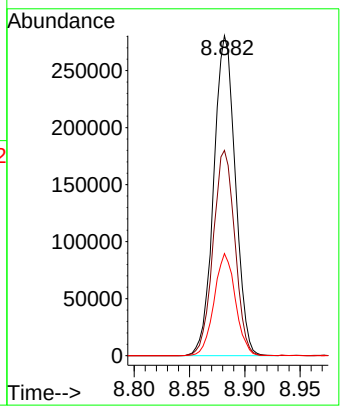


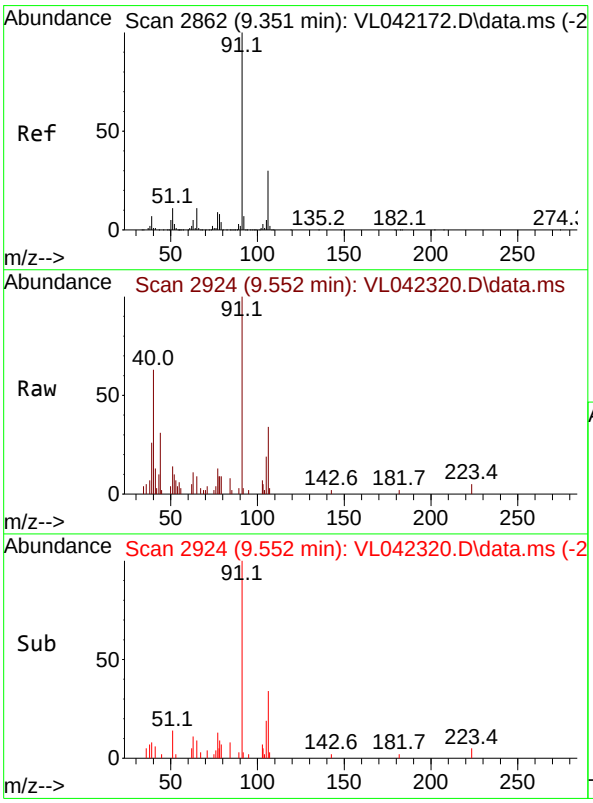

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025

Tgt Ion:117 Resp: 381290

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 64.4 | 55.8 | 83.6 |
| 119 | 31.5 | 25.5 | 38.3 |

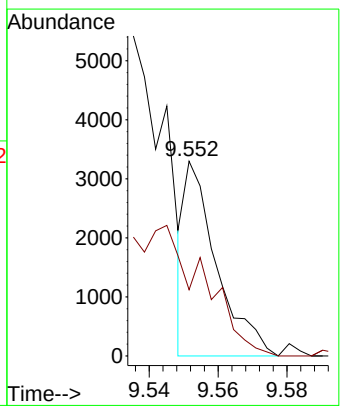


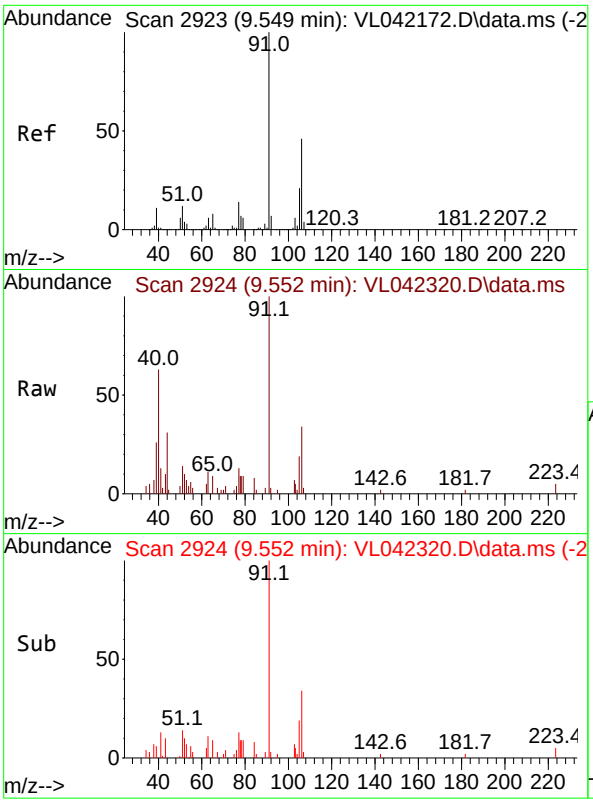




#58
Ethyl Benzene
Concen: 0.032 ppbv
RT: 9.552 min Scan# 2924
Delta R.T. 0.200 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion: 91 Resp: 2141

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 32.9 | 24.2 | 36.2 |



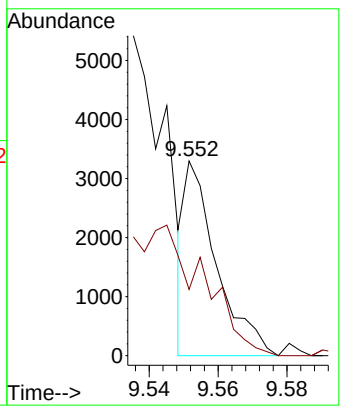


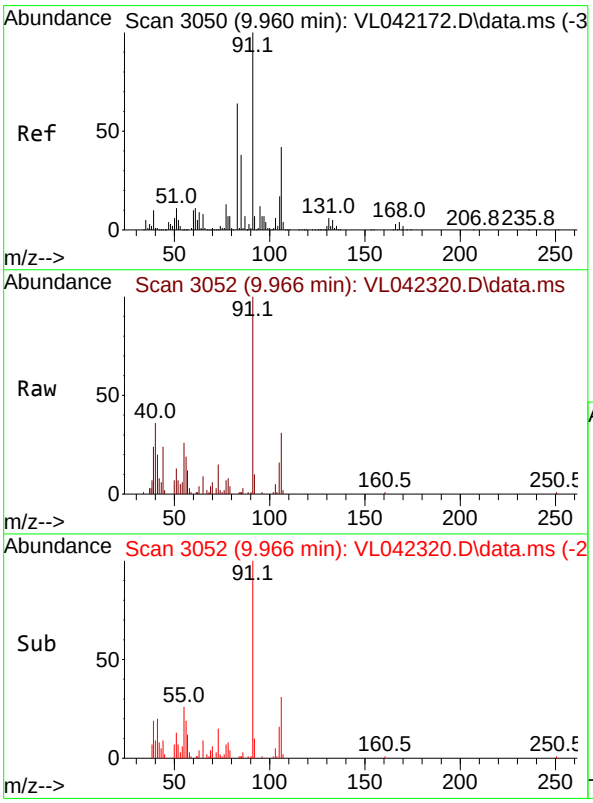

#59
m/p-Xylene
Concen: 0.040 ppbv
RT: 9.552 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025

Tgt Ion: 91 Resp: 2141

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 0.0 | 36.4 | 54.6# |

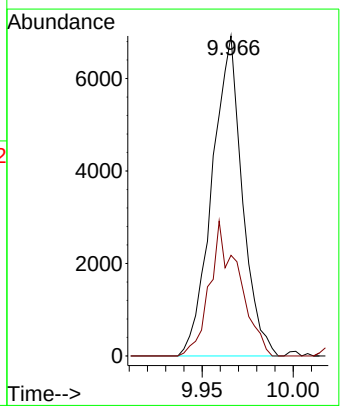


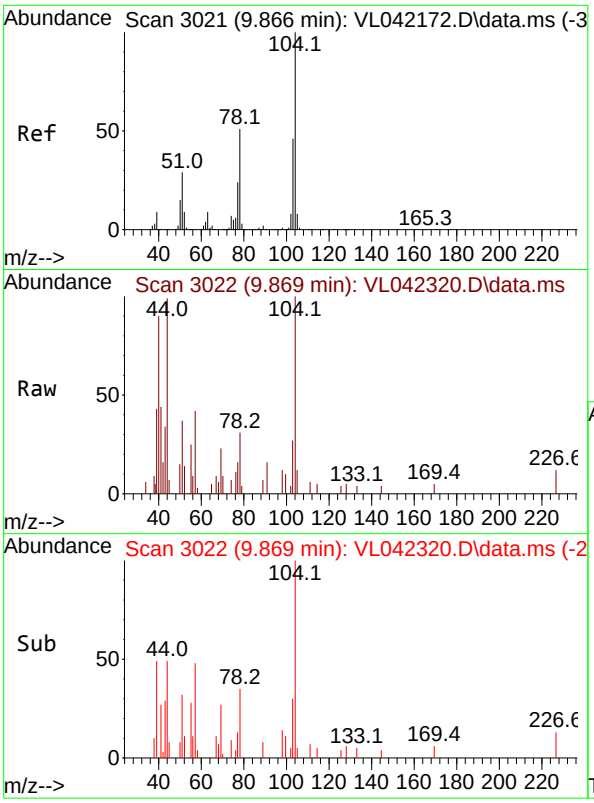




#60
o-Xylene
Concen: 0.147 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.006 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion: 91 Resp: 7975

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 41.2 | 20.8 | 62.5 |



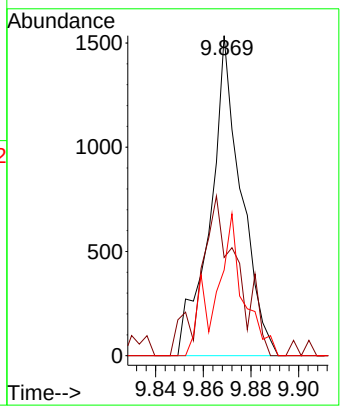


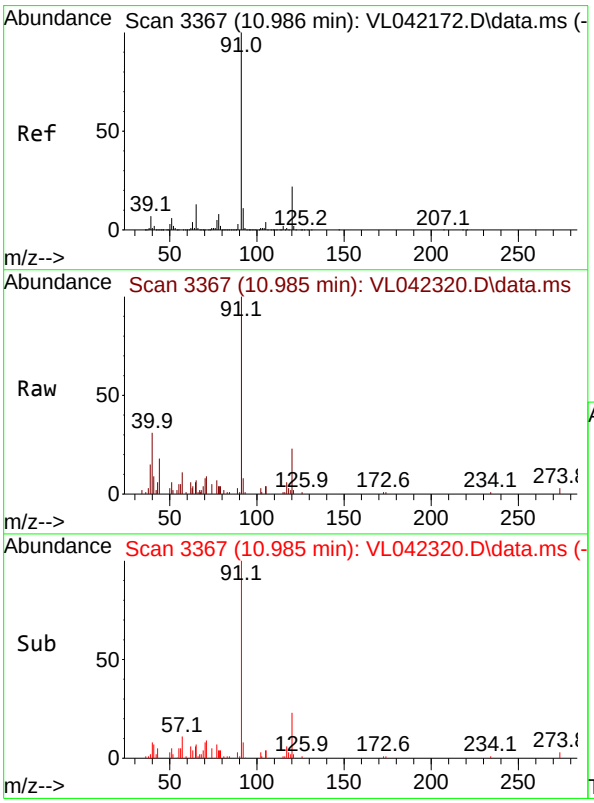

#61
Styrene
Concen: 0.051 ppbv
RT: 9.869 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025

Tgt Ion:104 Resp: 1381

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 65.4 | 41.8 | 62.6# |
| 103 | 40.7 | 37.0 | 55.4 |

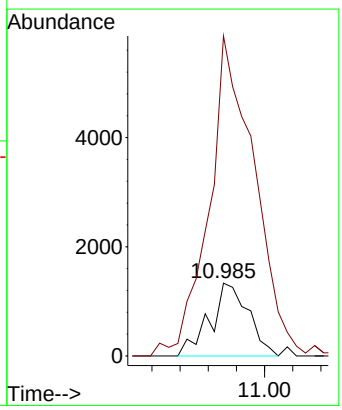


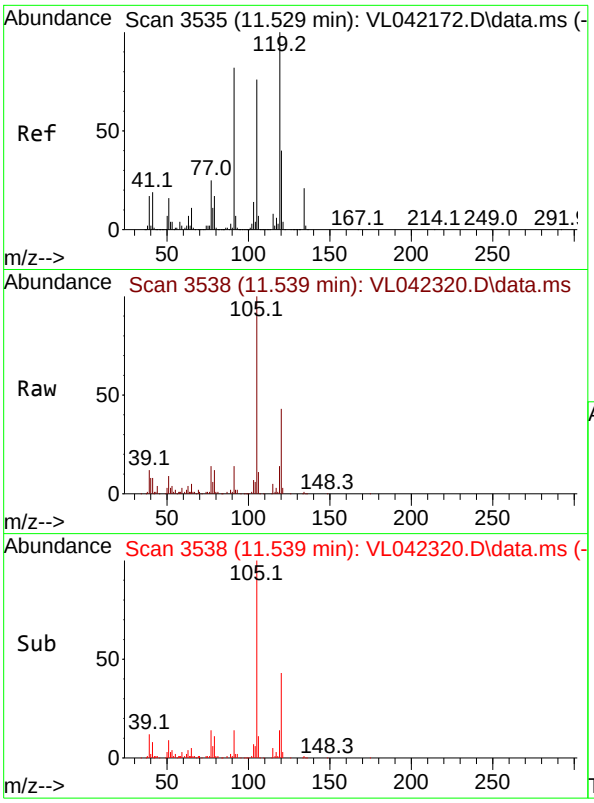




#64
n-propylbenzene
Concen: 0.060 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.000 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion:120 Resp: 1262

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 530.8 | 376.9 | 565.3 |



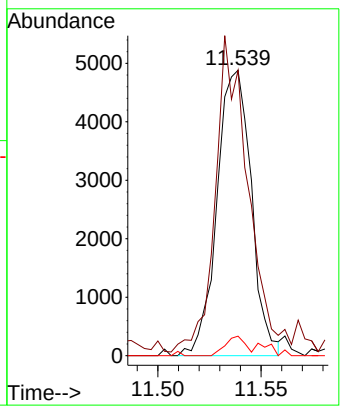


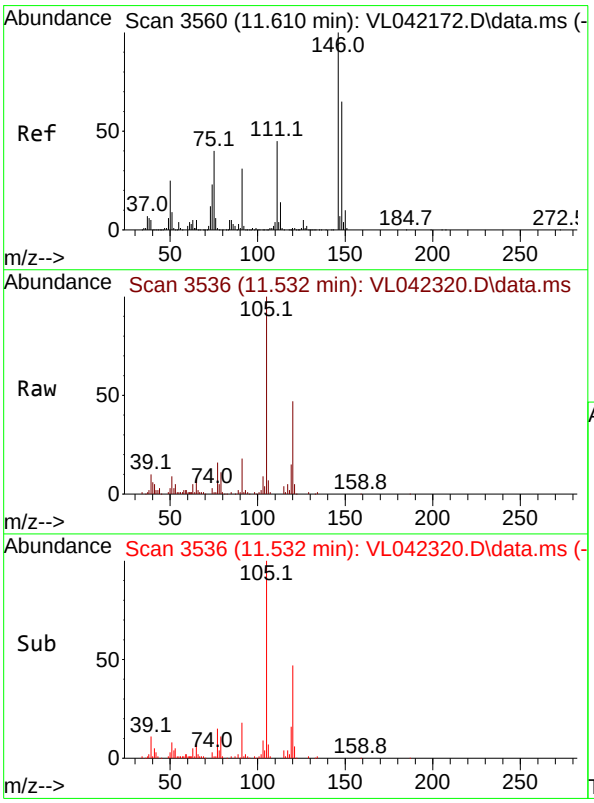

#65
tert-Butylbenzene
Concen: 0.075 ppbv
RT: 11.539 min Scan# 3
Delta R.T. 0.009 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025

Tgt Ion:119 Resp: 5633

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 108.4 | 66.0 | 99.0# |
| 134 | 6.2 | 16.7 | 25.1# |

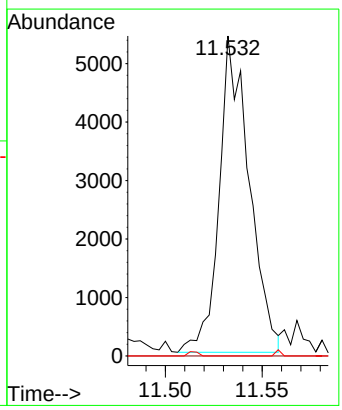


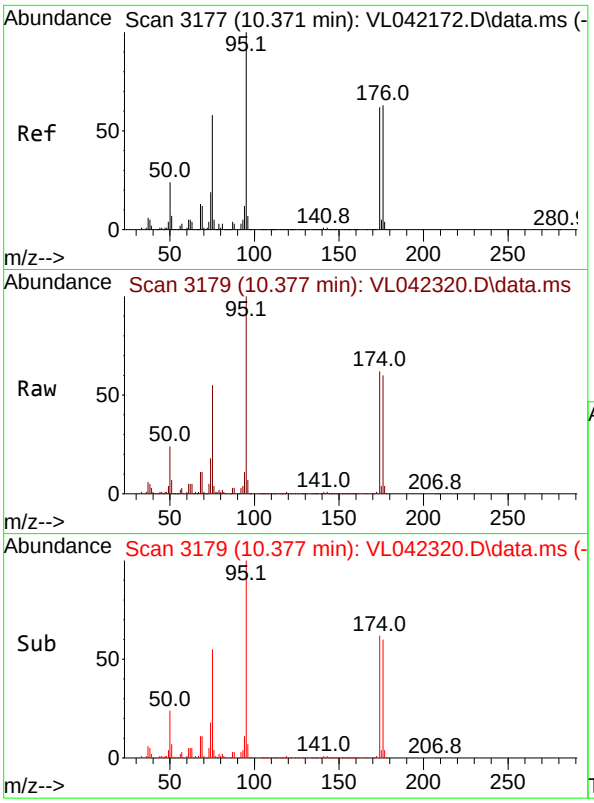




#66
Benzyl Chloride
Concen: 0.733 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.078 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion: 91 Resp: 5835

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 0.0 | 13.8 | 20.6# |
| 128 | 0.5 | 4.5 | 6.7# |



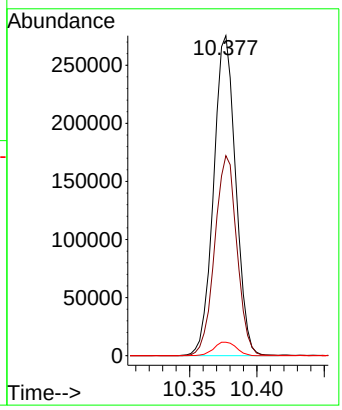


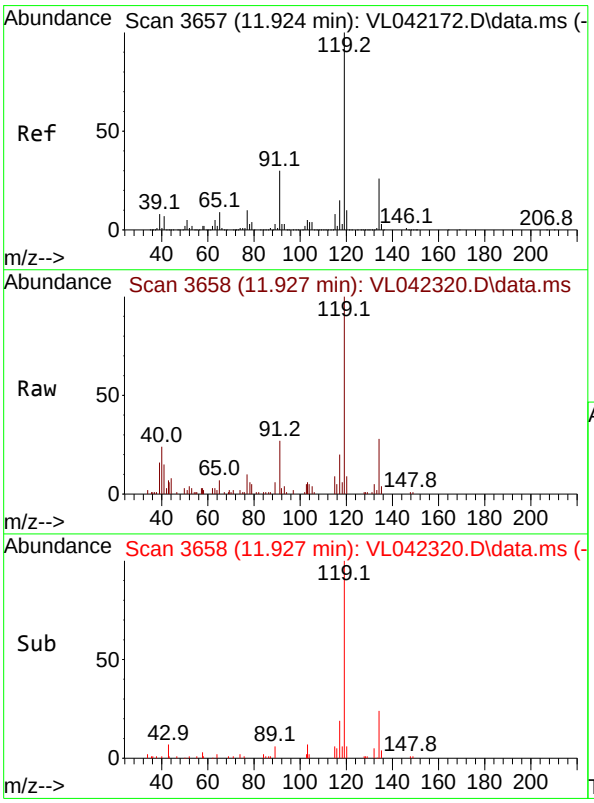

#68
1-Bromo-4-Fluorobenzene
Concen: 10.030 ppbv
RT: 10.377 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025

Tgt Ion: 95 Resp: 314052

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 63.2 | 50.6 | 76.0 |
| 175 | 4.3 | 3.8 | 5.6 |

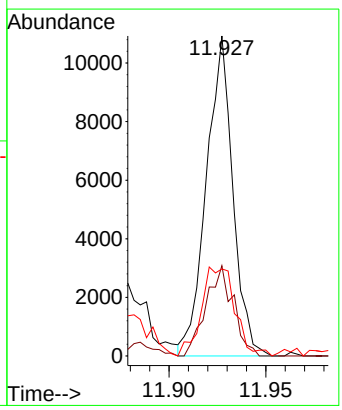


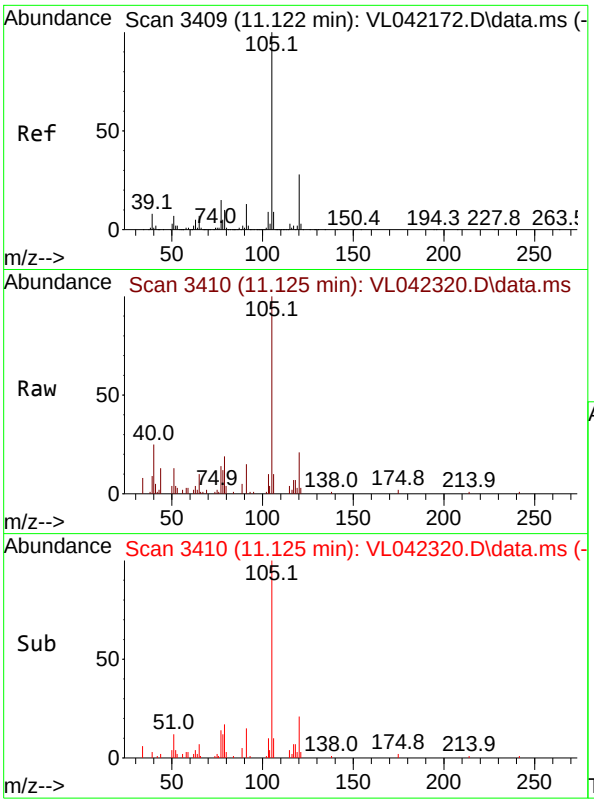




#69
p-Isopropyltoluene
Concen: 0.116 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion:119 Resp: 10393

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 33.8 | 20.4 | 30.6# |
| 91 | 32.3 | 23.7 | 35.5 |



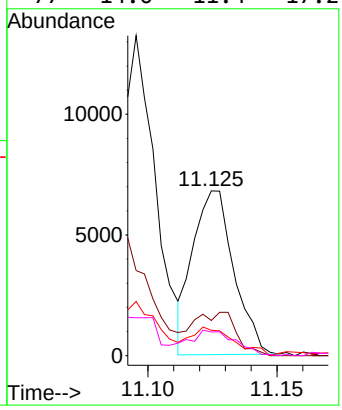


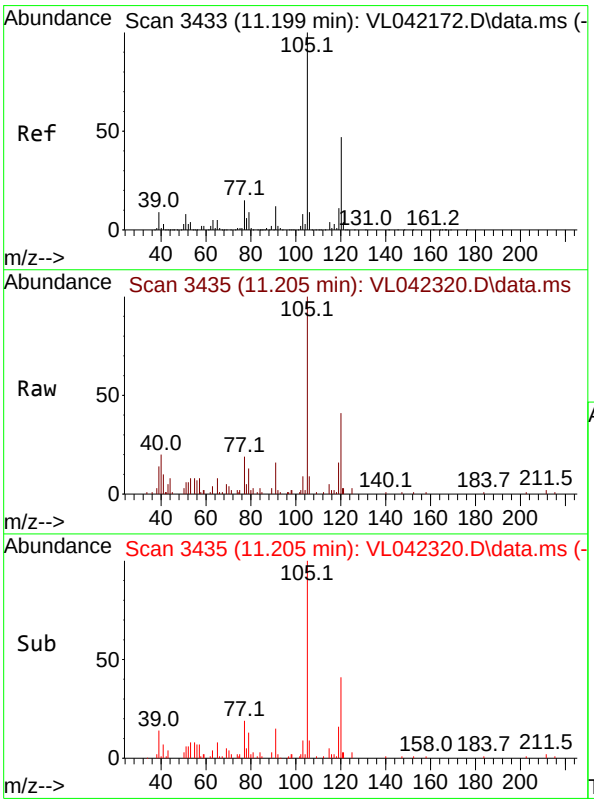

#72
4-Ethyltoluene
Concen: 0.111 ppbv
RT: 11.125 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025

Tgt Ion:105 Resp: 7507

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 0.0 | 23.4 | 35.0# |
| 91 | 0.0 | 10.3 | 15.5# |
| 77 | 14.0 | 11.4 | 17.2 |

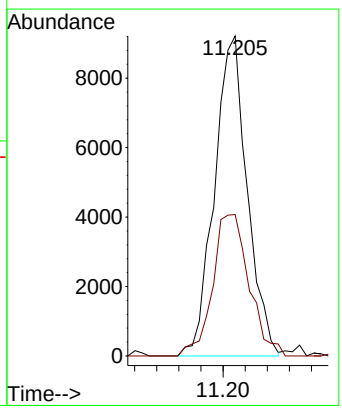


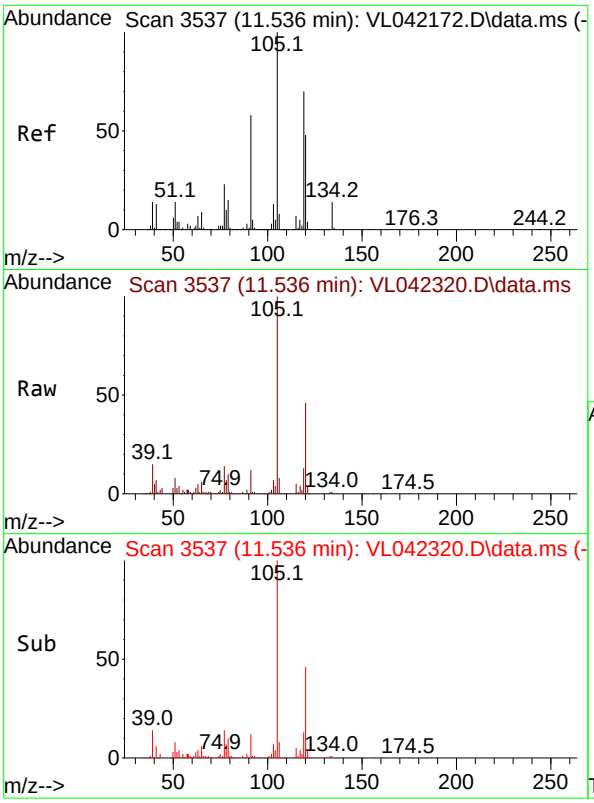




#73
1,3,5-Trimethylbenzene
Concen: 0.161 ppbv
RT: 11.205 min Scan# 3435
Delta R.T. 0.006 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion:105 Resp: 9483

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.2 | 37.4 | 56.0 |



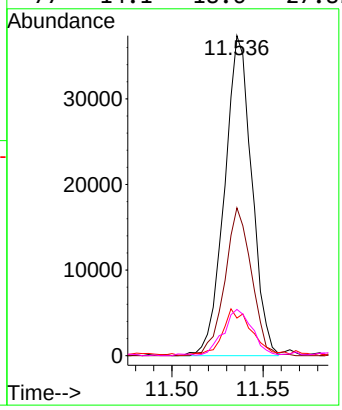


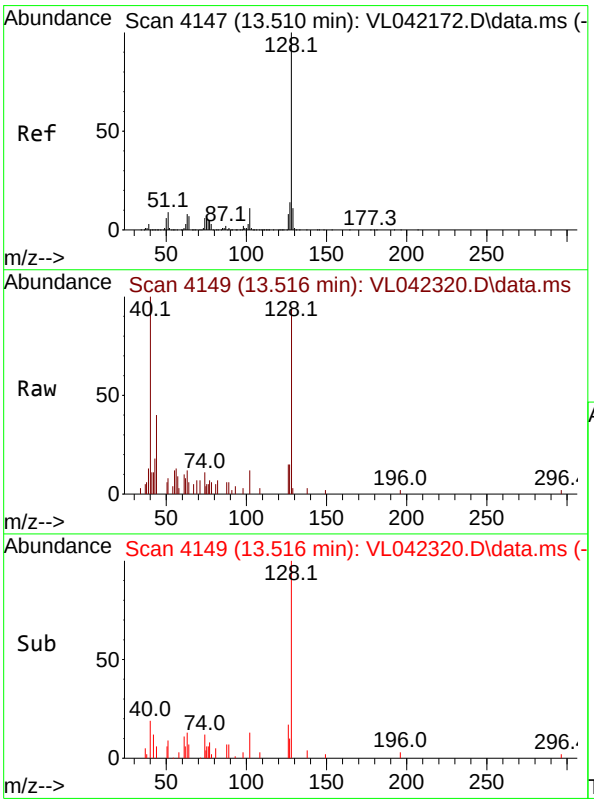

#74
1,2,4-Trimethylbenzene
Concen: 0.571 ppbv
RT: 11.536 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025

Tgt Ion:105 Resp: 38801

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.2 | 38.6 | 58.0 |
| 91 | 11.5 | 46.2 | 69.2# |
| 77 | 14.1 | 18.6 | 27.8# |

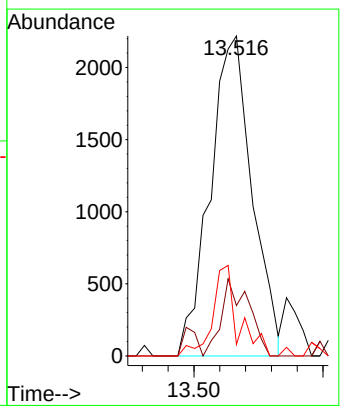



#79
Naphthalene
Concen: 0.034 ppbv
RT: 13.516 min Scan# 4149
Delta R.T. 0.006 min
Lab File: VL042320.D
Acq: 11 Apr 2025 15:01

Tgt Ion:128 Resp: 2510

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 15.7 | 10.8 | 16.2 |
| 129 | 3.6 | 9.0 | 13.4# |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042321.D
Acq On : 11 Apr 2025 15:36
Operator : SY/MD
Sample : Q1665-18
Misc : 400mL/MSVOA_L
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025

Quant Time: Apr 11 23:01:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

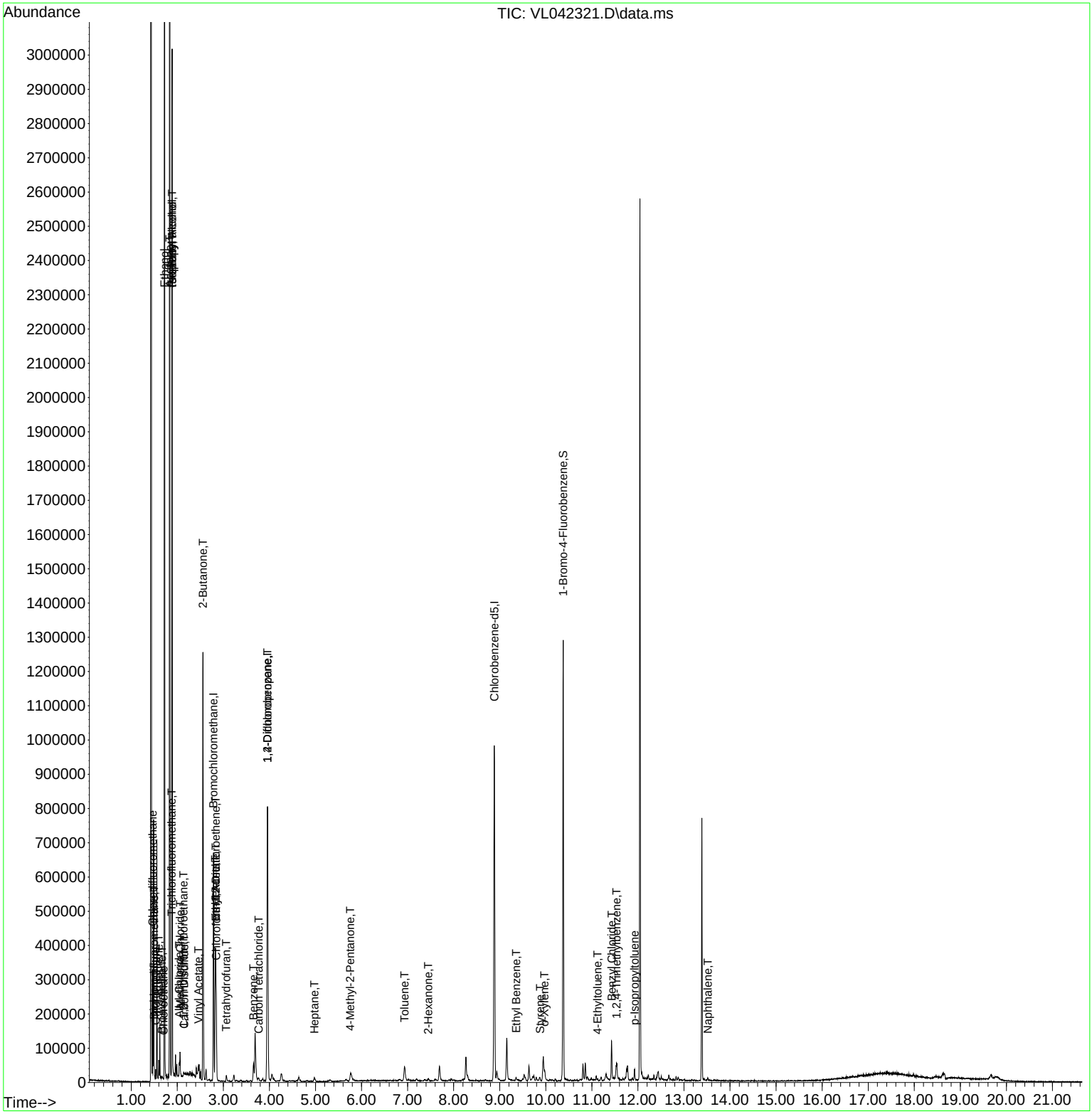
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) Bromochloromethane | 2.787 | 49 | 184452 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.959 | 114 | 454008 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.882 | 117 | 391031 | 10.000 | ppbv | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95 | 301415 | 9.386 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 93.900% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.499 | 85 | 11984 | 0.440 | ppbv | | 90 |
| 3) Chlorodifluoromethane | 1.466 | 51 | 80648 | 2.899 | ppbv | # | 63 |
| 4) Chloromethane | 1.531 | 50 | 6779 | 0.609 | ppbv | | 99 |
| 6) Bromomethane | 1.667 | 94 | 157 | 0.031 | ppbv | # | 66 |
| 7) Chloroethane | 1.703 | 64 | 318 | 0.071 | ppbv | # | 43 |
| 9) Propene | 1.887 | 41 | 128515 | 10.078 | ppbv | | 87 |
| 10) Heptane | 4.975 | 43 | 3329 | 0.098 | ppbv | # | 28 |
| 11) Trichlorofluoromethane | 1.877 | 101 | 5150 | 0.194 | ppbv | | 94 |
| 12) 1,1,2-Trichlorotrifluo... | 2.136 | 101 | 1356 | 0.062 | ppbv | | 97 |
| 13) Ethanol | 1.722 | 45 | 1721714 | 1428.217 | ppbv | | 97 |
| 15) Acetone | 1.832 | 43 | 2336283 | 90.565 | ppbv | # | 69 |
| 16) 1,3-Butadiene | 1.599 | 39 | 7032 | 0.558 | ppbv | # | 35 |
| 17) tert-Butyl alcohol | 1.887 | 59 | 51633 | 1.607 | ppbv | | 95 |
| 19) Isopropyl Alcohol | 1.887 | 45 | 1254135 | 86.165 | ppbv | # | 41 |
| 20) Methylene Chloride | 2.062 | 84 | 8636 | 0.899 | ppbv | # | 76 |
| 21) Allyl Chloride | 2.046 | 41 | 5656 | 0.311 | ppbv | # | 31 |
| 23) Vinyl Acetate | 2.457 | 43 | 22621 | 2.026 | ppbv | # | 90 |
| 25) Ethyl Acetate | 2.836 | 43 | 173110 | 2.586 | ppbv | | 98 |
| 26) Hexane | 2.826 | 57 | 70462 | 2.725 | ppbv | | 92 |
| 27) Carbon Disulfide | 2.149 | 76 | 1144 | 0.041 | ppbv | # | 1 |
| 29) Chloroform | 2.848 | 83 | 55947 | 1.478 | ppbv | | 100 |
| 31) cis-1,2-Dichloroethene | 2.836 | 61 | 15260 | 0.581 | ppbv | # | 25 |
| 34) 2-Butanone | 2.557 | 43 | 746435 | 22.673 | ppbv | | 99 |
| 35) Carbon Tetrachloride | 3.764 | 117 | 2821 | 0.080 | ppbv | # | 68 |
| 36) Benzene | 3.654 | 78 | 30723 | 0.683 | ppbv | | 95 |
| 39) 1,2-Dichloropropane | 3.959 | 63 | 116117 | 7.084 | ppbv | # | 23 |
| 41) Tetrahydrofuran | 3.062 | 42 | 3180 | 0.168 | ppbv | # | 54 |
| 50) 4-Methyl-2-Pentanone | 5.755 | 43 | 6238 | 0.120 | ppbv | # | 39 |
| 51) 2-Hexanone | 7.448 | 43 | 2209 | 0.052 | ppbv | # | 28 |
| 53) Toluene | 6.933 | 91 | 28699 | 0.538 | ppbv | | 98 |
| 58) Ethyl Benzene | 9.357 | 91 | 4656 | 0.067 | ppbv | | 98 |
| 60) o-Xylene | 9.969 | 91 | 2749 | 0.049 | ppbv | # | 3 |
| 61) Styrene | 9.875 | 104 | 2355 | 0.086 | ppbv | # | 83 |
| 66) Benzyl Chloride | 11.432 | 91 | 3998 | 0.490 | ppbv | # | 69 |
| 69) p-Isopropyltoluene | 11.927 | 119 | 10463 | 0.114 | ppbv | # | 93 |
| 72) 4-Ethyltoluene | 11.125 | 105 | 2438 | 0.035 | ppbv | # | 83 |
| 74) 1,2,4-Trimethylbenzene | 11.536 | 105 | 10882 | 0.156 | ppbv | # | 68 |
| 79) Naphthalene | 13.516 | 128 | 3524 | 0.046 | ppbv | # | 92 |

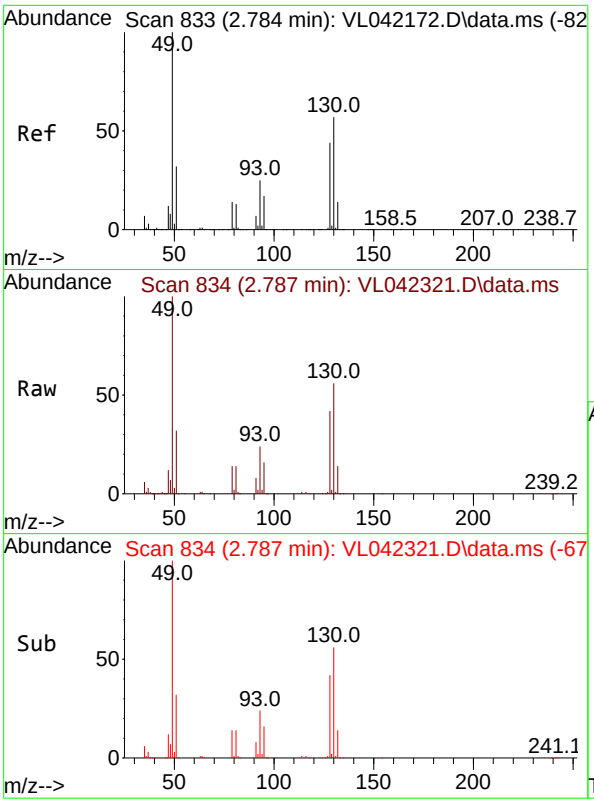
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042321.D
Acq On : 11 Apr 2025 15:36
Operator : SY/MD
Sample : Q1665-18
Misc : 400mL/MSVOA_L
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025

Quant Time: Apr 11 23:01:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration



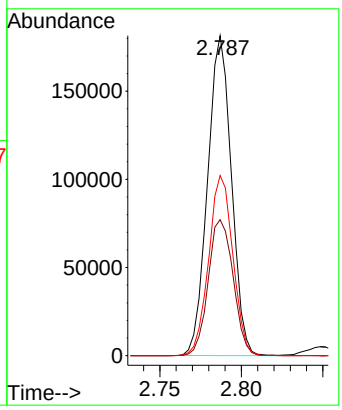


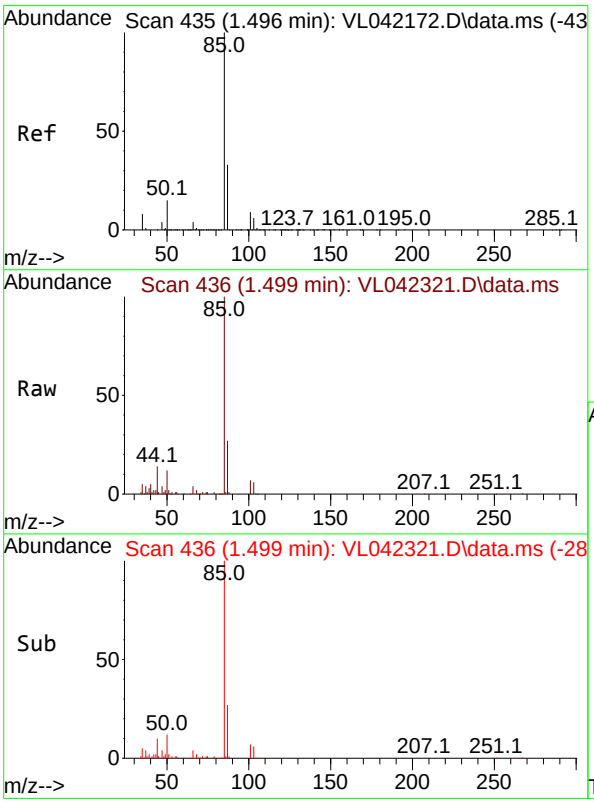

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025

Tgt Ion: 49 Resp: 184452

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 44.5 | 22.9 | 68.5 |
| 130 | 57.1 | 28.8 | 86.4 |

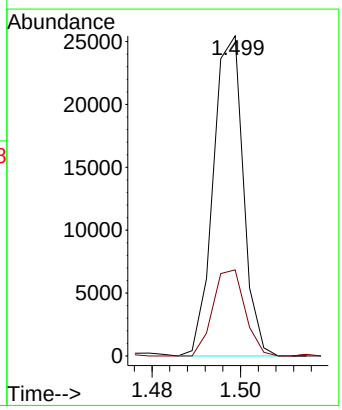


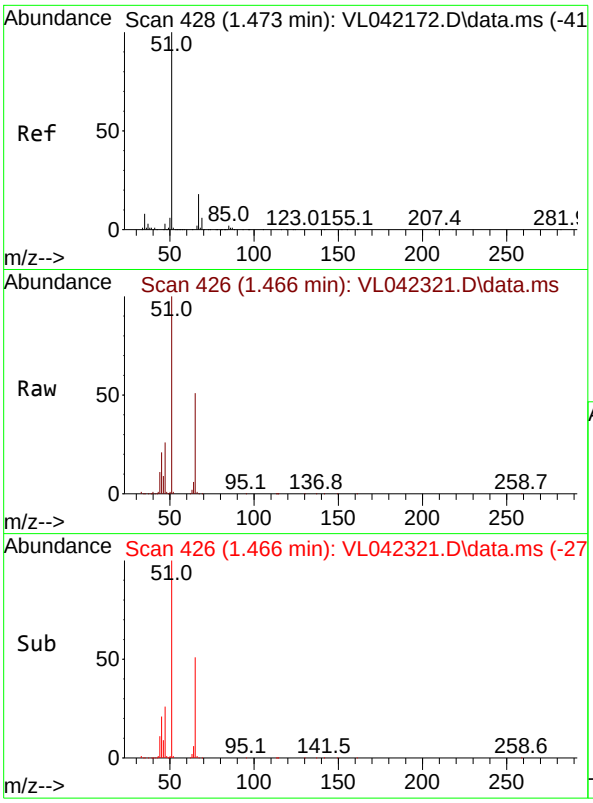




#2
Dichlorodifluoromethane
Concen: 0.440 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion: 85 Resp: 11984

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 26.9 | 26.1 | 39.1 |



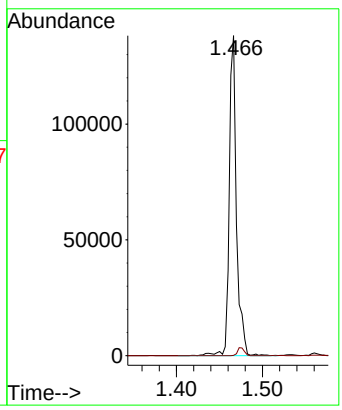


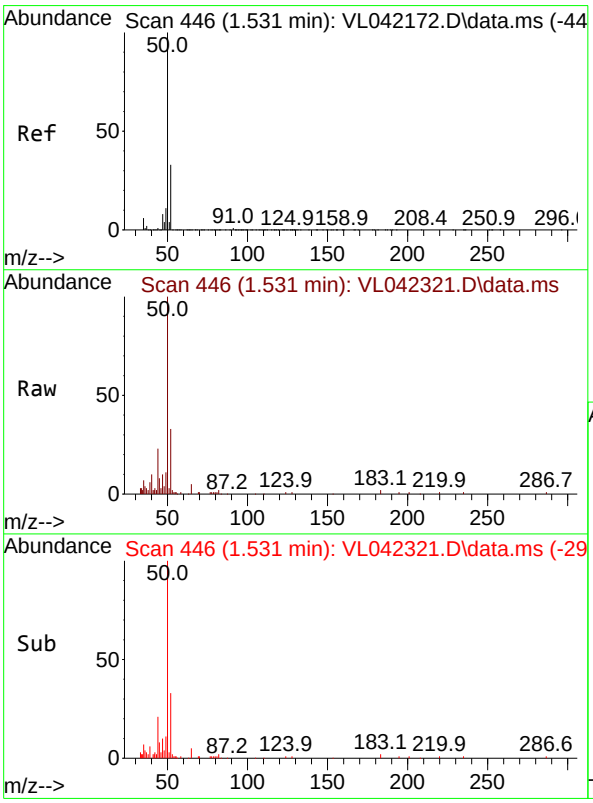

#3
Chlorodifluoromethane
Concen: 2.899 ppbv
RT: 1.466 min Scan# 4
Delta R.T. -0.007 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025

Tgt Ion: 51 Resp: 80648

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 2.3 | 15.0 | 22.6# |

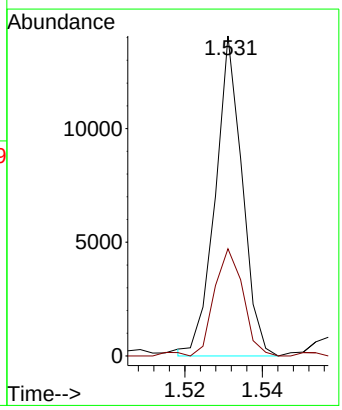


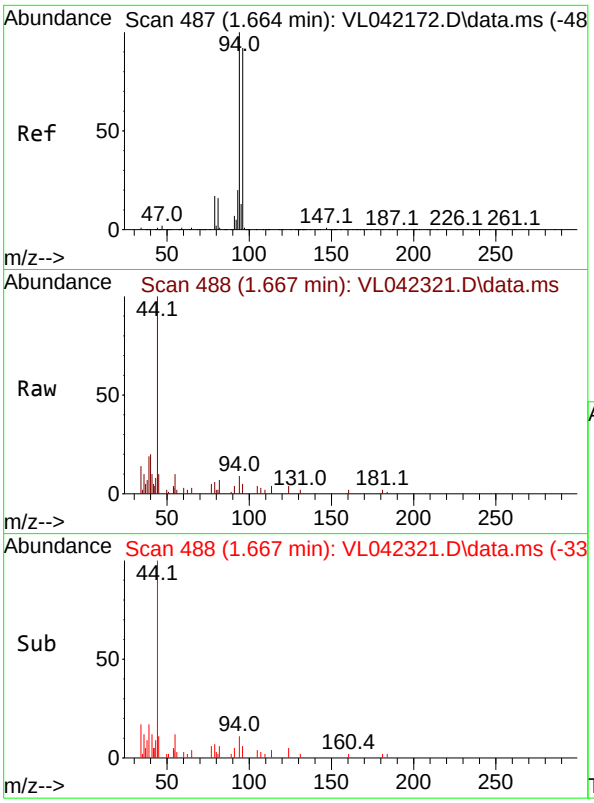




#4
Chloromethane
Concen: 0.609 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion: 50 Resp: 6779

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.0 | 26.1 | 39.1 |



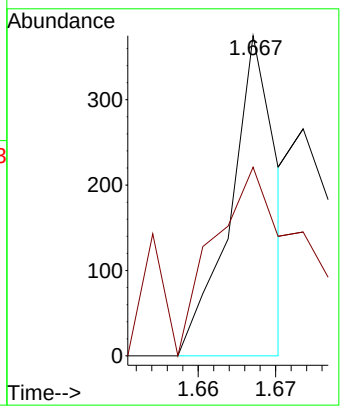


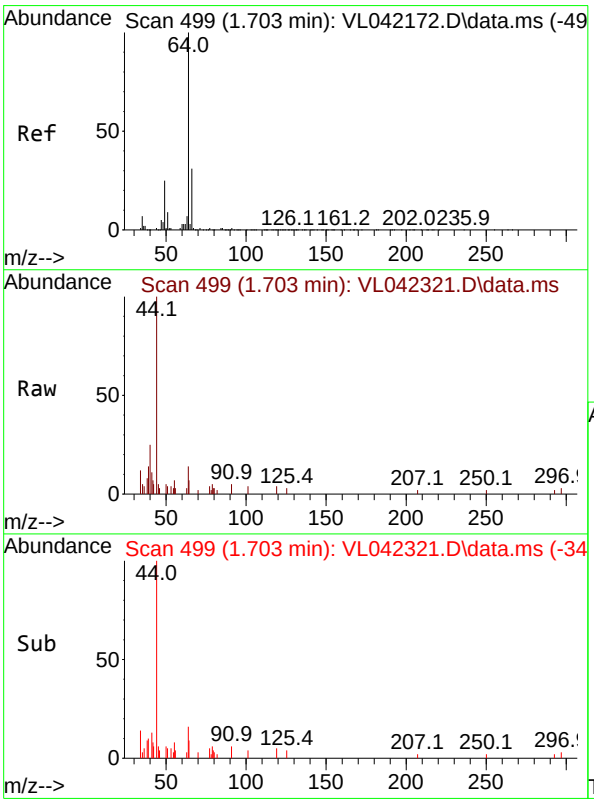

#6
Bromomethane
Concen: 0.031 ppbv
RT: 1.667 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025

Tgt Ion: 94 Resp: 157

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 58.9 | 73.1 | 109.7# |

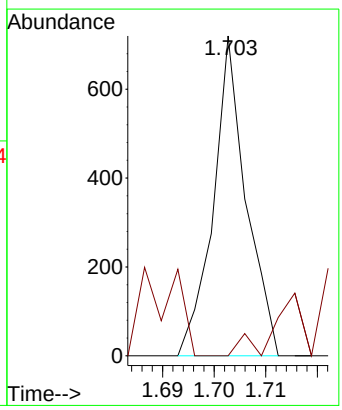


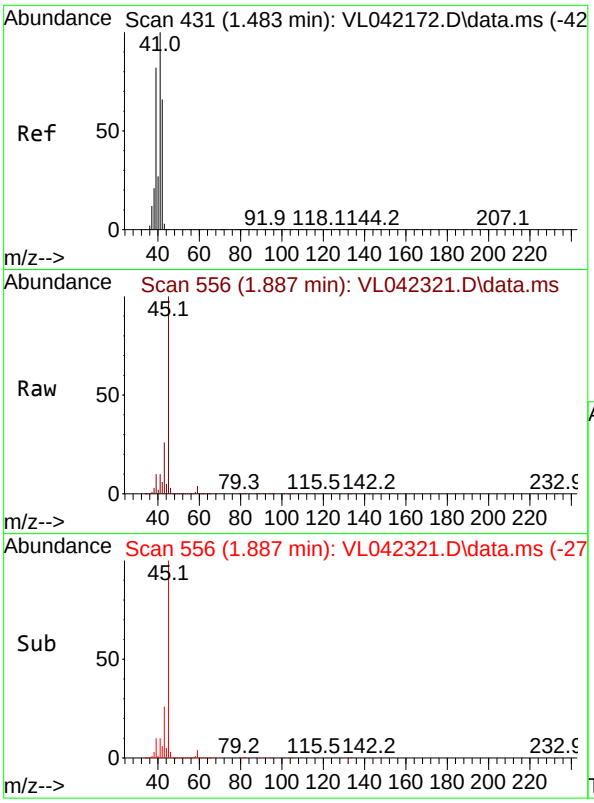




#7
Chloroethane
Concen: 0.071 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion: 64 Resp: 318

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 0.0 | 25.2 | 37.8# |



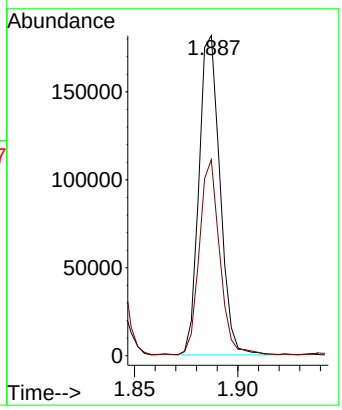


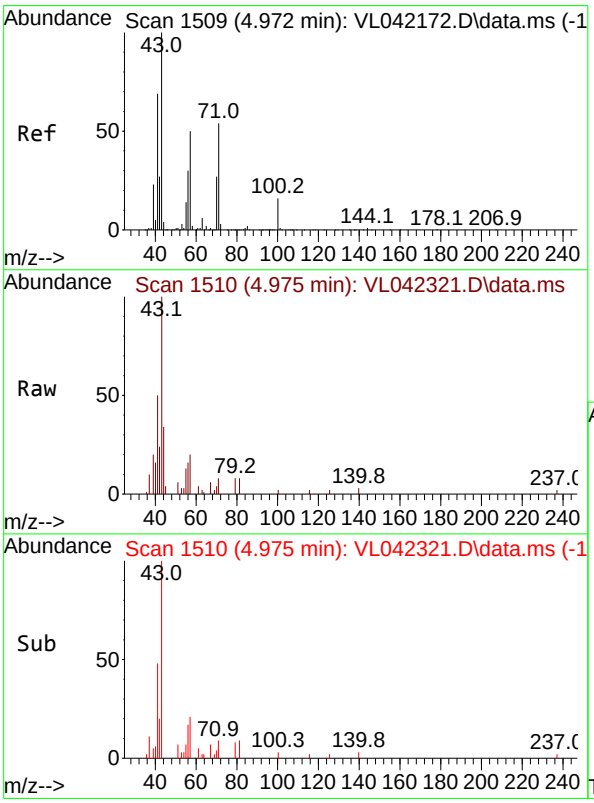

#9
Propene
Concen: 10.078 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.404 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025

Tgt Ion: 41 Resp: 128515

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 58.8 | 55.4 | 83.2 |

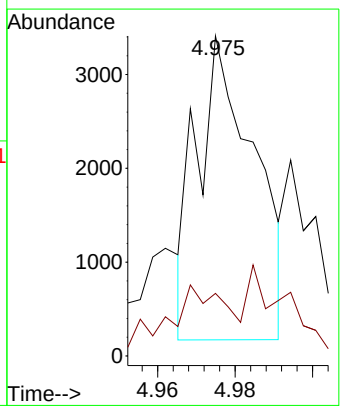


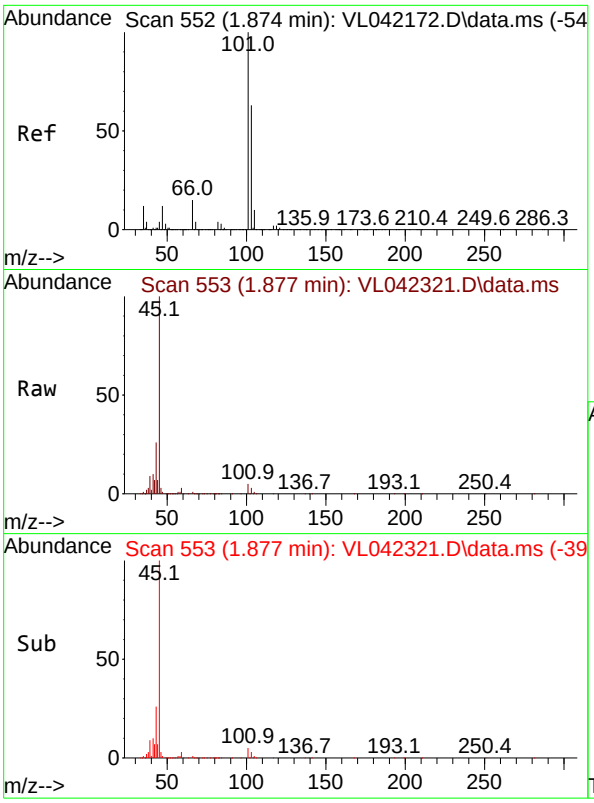




#10
Heptane
Concen: 0.098 ppbv
RT: 4.975 min Scan# 1510
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion: 43 Resp: 3329

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 0.0 | 39.4 | 59.2# |



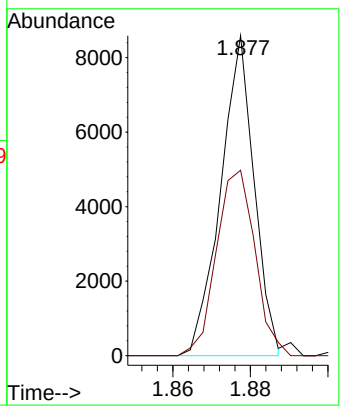


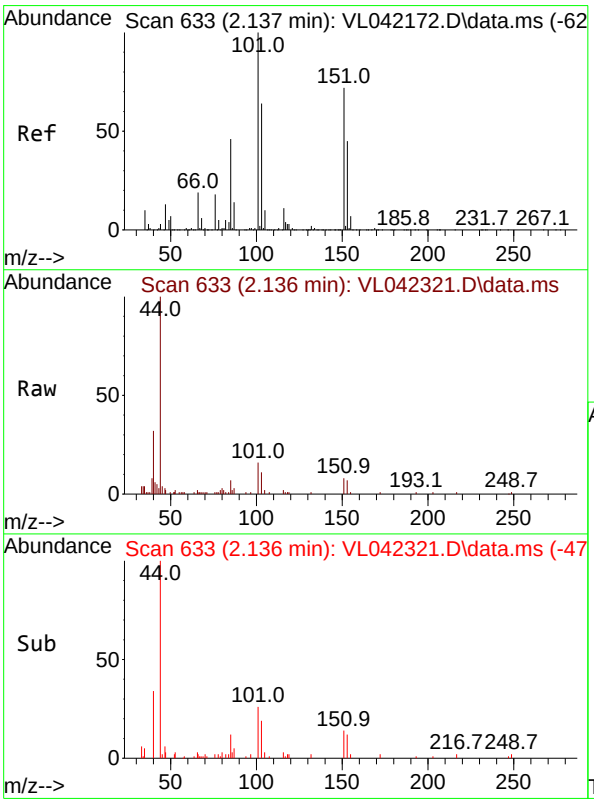

#11
Trichlorofluoromethane
Concen: 0.194 ppbv
RT: 1.877 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025

Tgt Ion:101 Resp: 5150

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 58.0 | 50.2 | 75.2 |

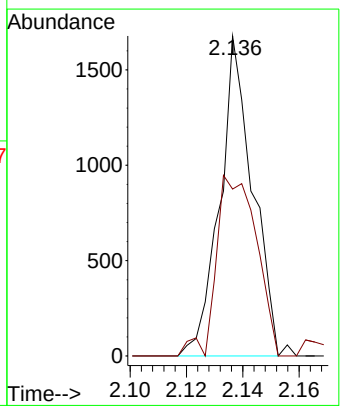


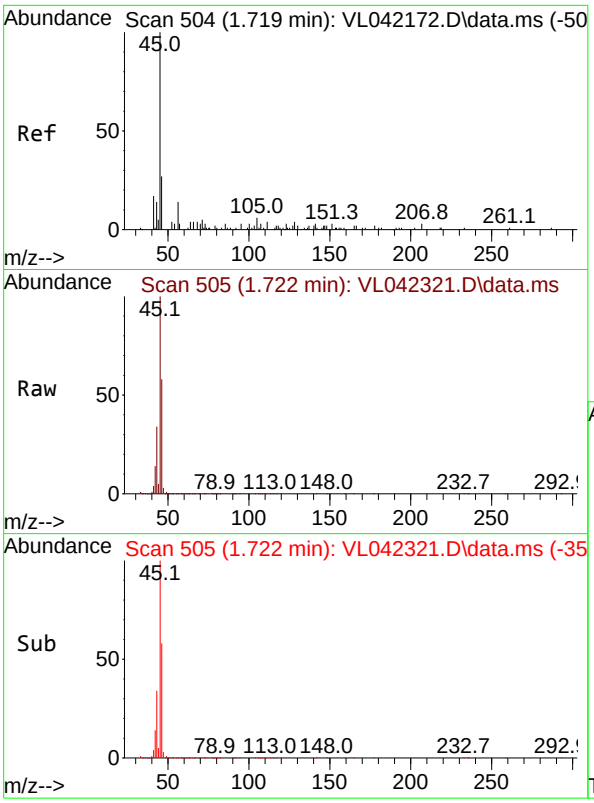




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.062 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion:101 Resp: 1356

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 74.0 | 57.1 | 85.7 |



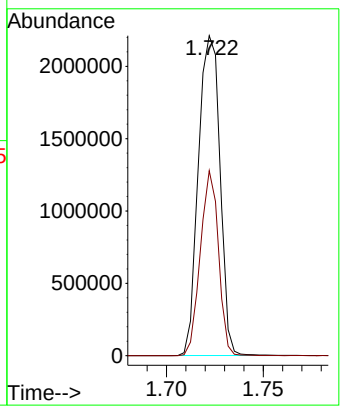


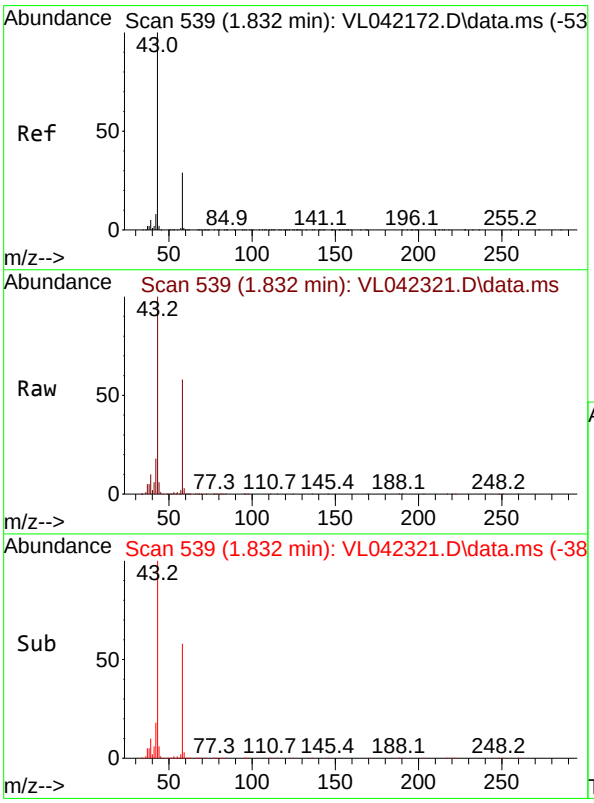

#13
Ethanol
Concen: 1428.217 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025

Tgt Ion: 45 Resp: 1721714

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 48.6 | 20.2 | 80.8 |

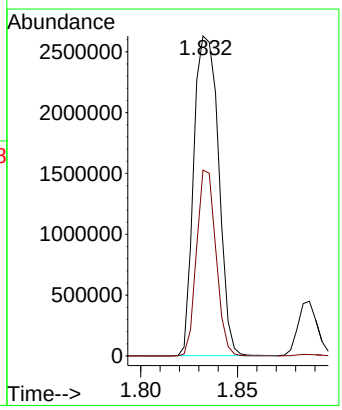


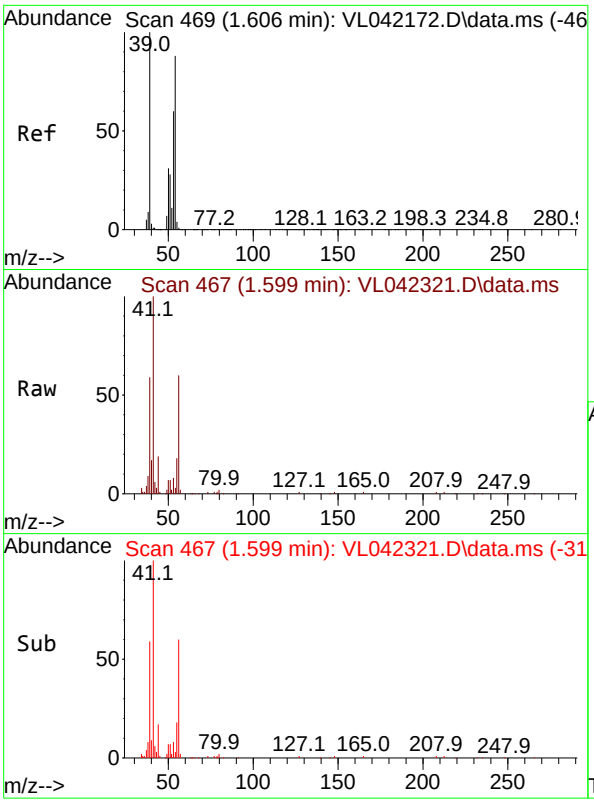




#15
Acetone
Concen: 90.565 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.000 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion: 43 Resp: 2336283

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 45.7 | 23.2 | 34.8# |



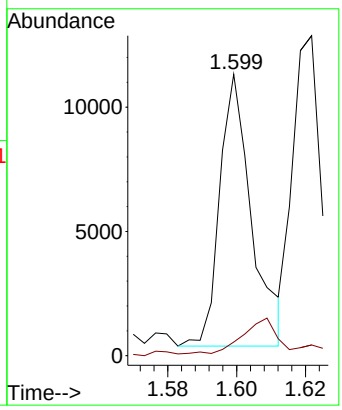


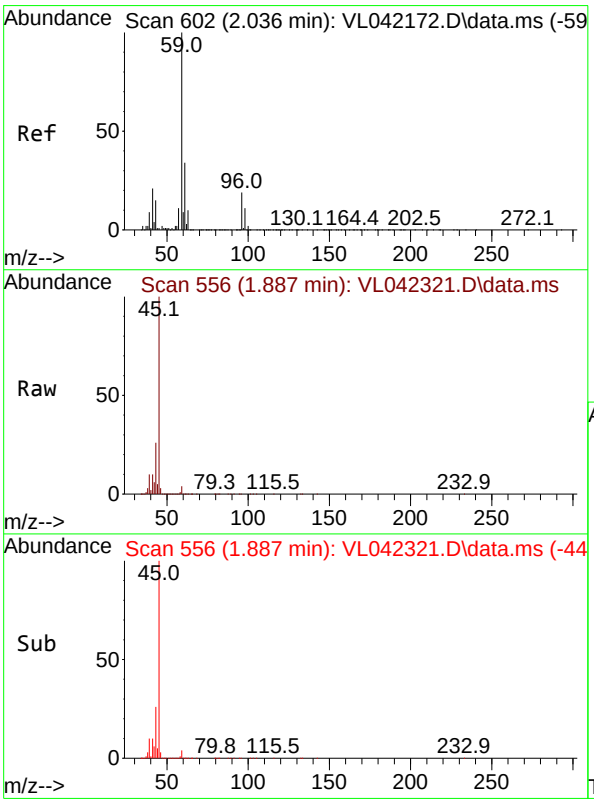

#16
1,3-Butadiene
Concen: 0.558 ppbv
RT: 1.599 min Scan# 4
Delta R.T. -0.007 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025

Tgt Ion: 39 Resp: 7032

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 20.1 | 60.7 | 91.1# |

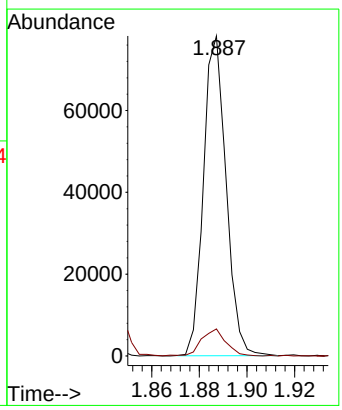


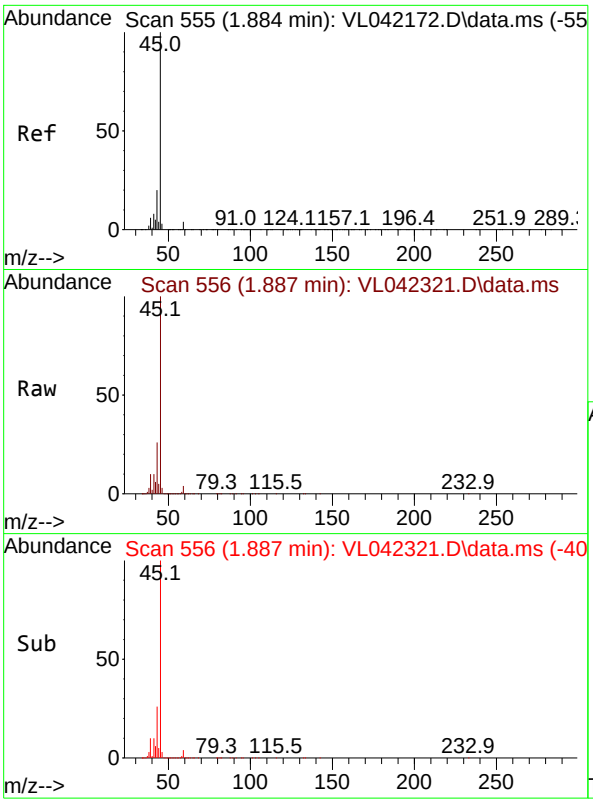




#17
tert-Butyl alcohol
Concen: 1.607 ppbv
RT: 1.887 min Scan# 556
Delta R.T. -0.149 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion: 59 Resp: 51633

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 9.3 | 8.9 | 13.3 |



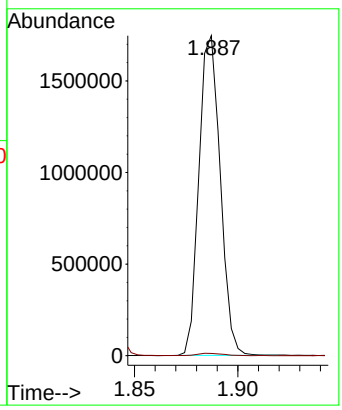


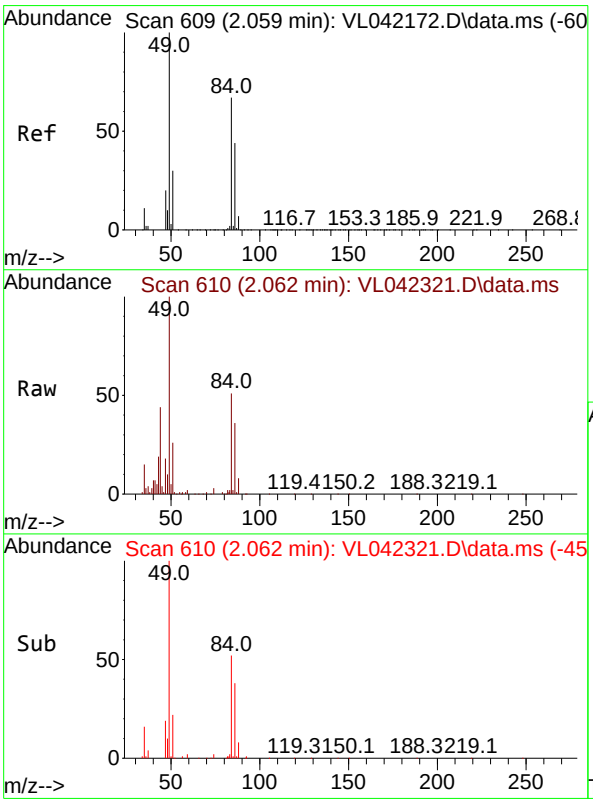

#19
Isopropyl Alcohol
Concen: 86.165 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025

Tgt Ion: 45 Resp: 1254135

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 85.1 | 36.9 | 55.3# |

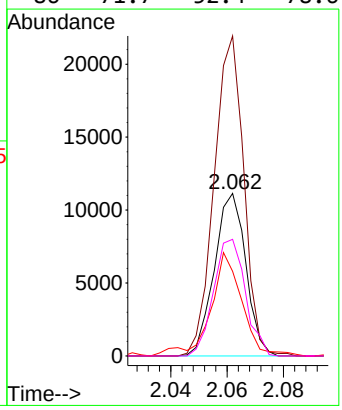


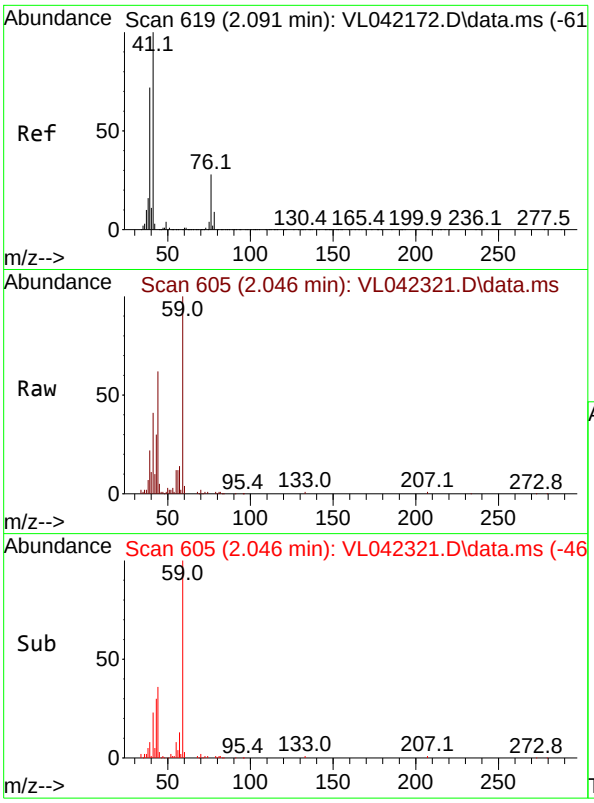




#20
Methylene Chloride
Concen: 0.899 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion: 84 Resp: 8636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 196.9 | 120.2 | 180.4# |
| 51 | 49.7 | 37.4 | 56.0 |
| 86 | 71.7 | 52.4 | 78.6 |



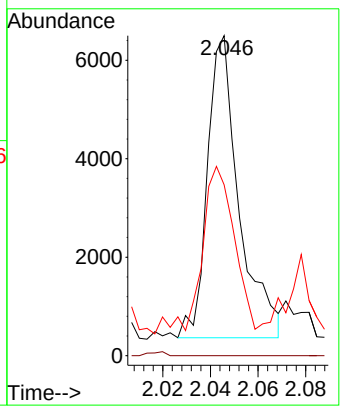


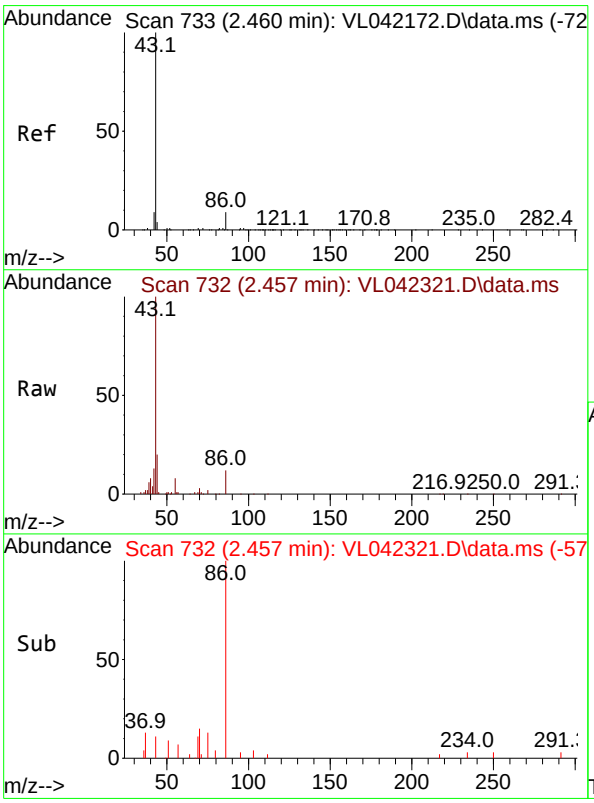

#21
Allyl Chloride
Concen: 0.311 ppbv
RT: 2.046 min Scan# 6
Delta R.T. -0.046 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025

Tgt Ion: 41 Resp: 5656

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 20.2 | 24.1 | 36.1# |
| 39 | 0.0 | 61.1 | 91.7# |

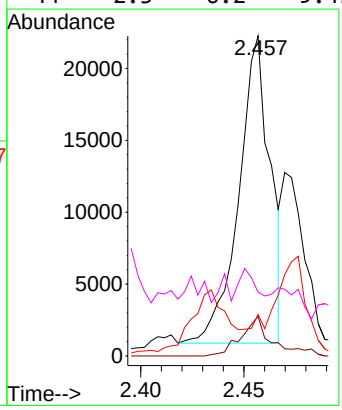


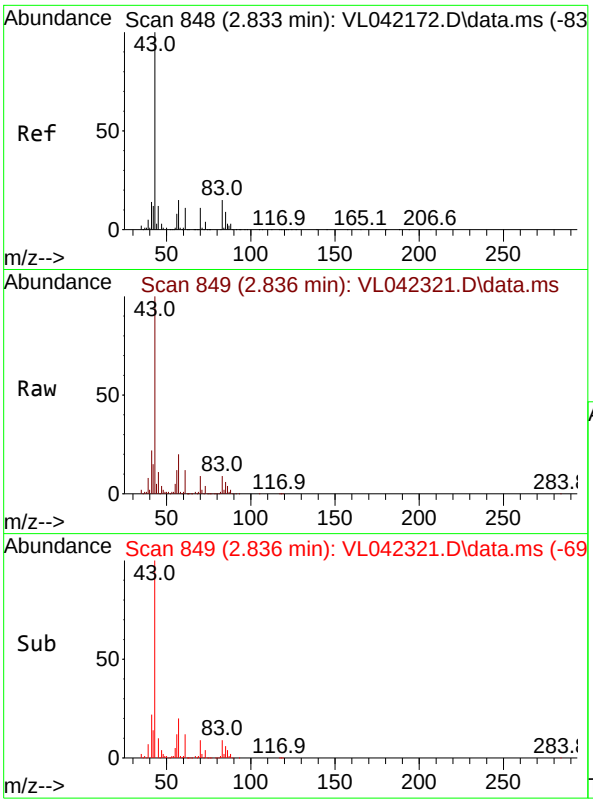




#23
Vinyl Acetate
Concen: 2.026 ppbv
RT: 2.457 min Scan# 732
Delta R.T. -0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion: 43 Resp: 22621

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 12.9 | 5.5 | 8.3# |
| 42 | 9.9 | 8.6 | 13.0 |
| 44 | 2.3 | 6.2 | 9.4# |



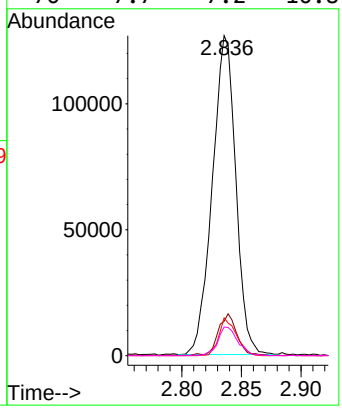


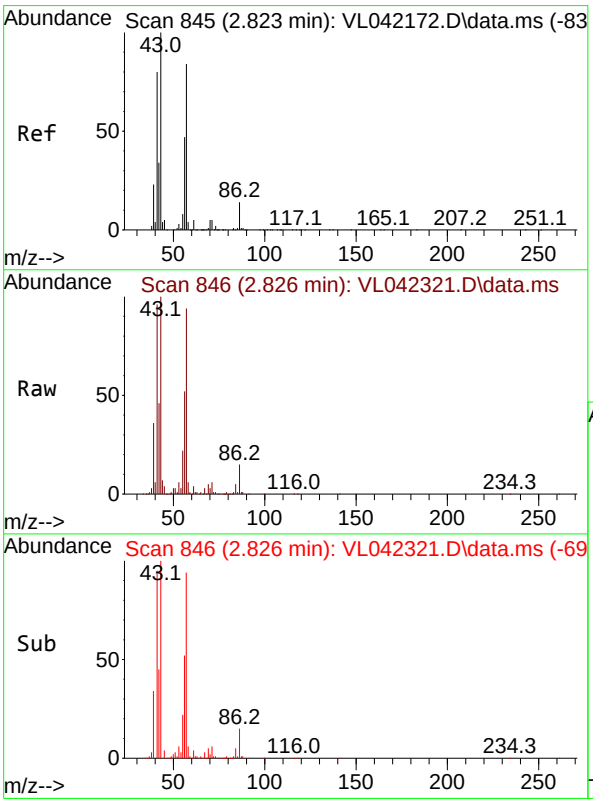

#25
Ethyl Acetate
Concen: 2.586 ppbv
RT: 2.836 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025

Tgt Ion: 43 Resp: 173110

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 10.8 | 8.2 | 12.2 |
| 61 | 8.9 | 7.3 | 10.9 |
| 70 | 7.7 | 7.2 | 10.8 |

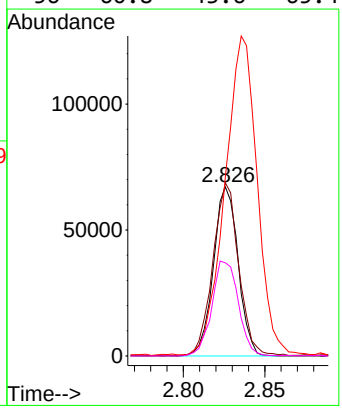


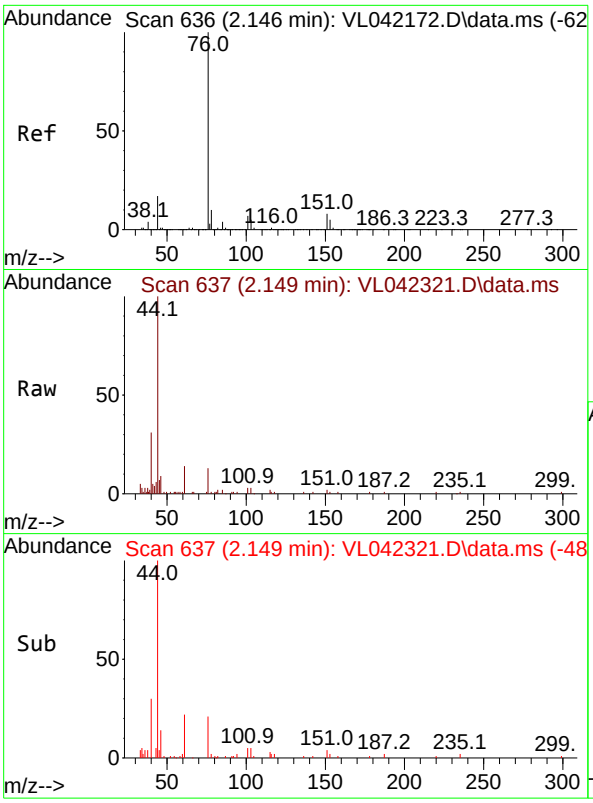




#26
Hexane
Concen: 2.725 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion: 57 Resp: 70462

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 107.0 | 76.6 | 114.8 |
| 43 | 249.4 | 207.8 | 311.8 |
| 56 | 60.8 | 43.6 | 65.4 |



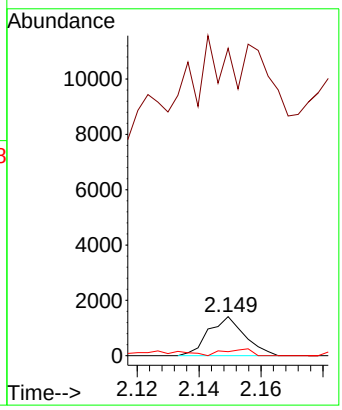


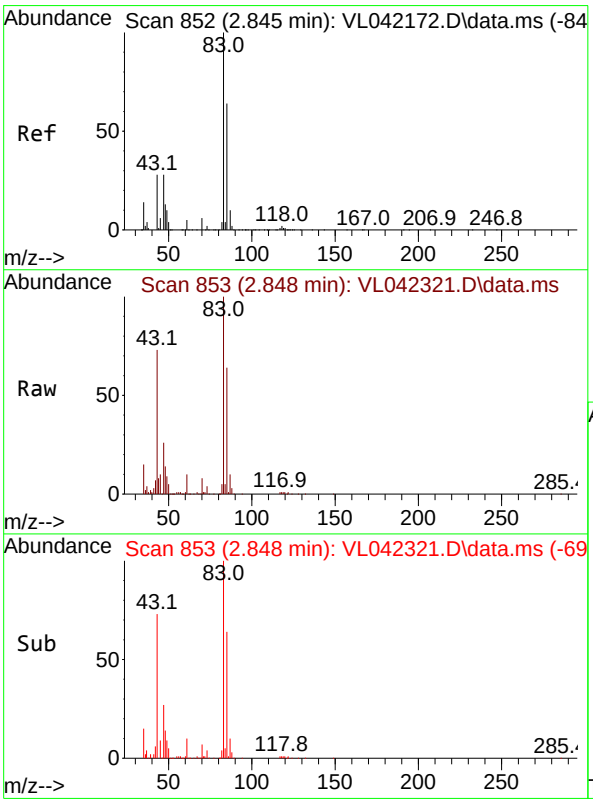

#27
Carbon Disulfide
Concen: 0.041 ppbv
RT: 2.149 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025

Tgt Ion: 76 Resp: 1144

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 1169.8 | 14.7 | 22.1# |
| 78 | 13.1 | 9.3 | 13.9 |

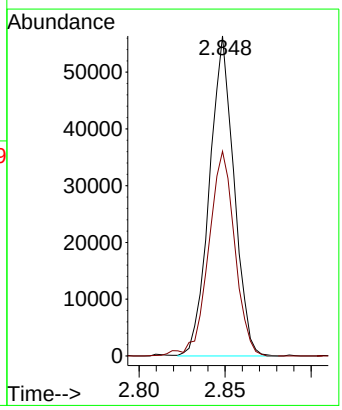


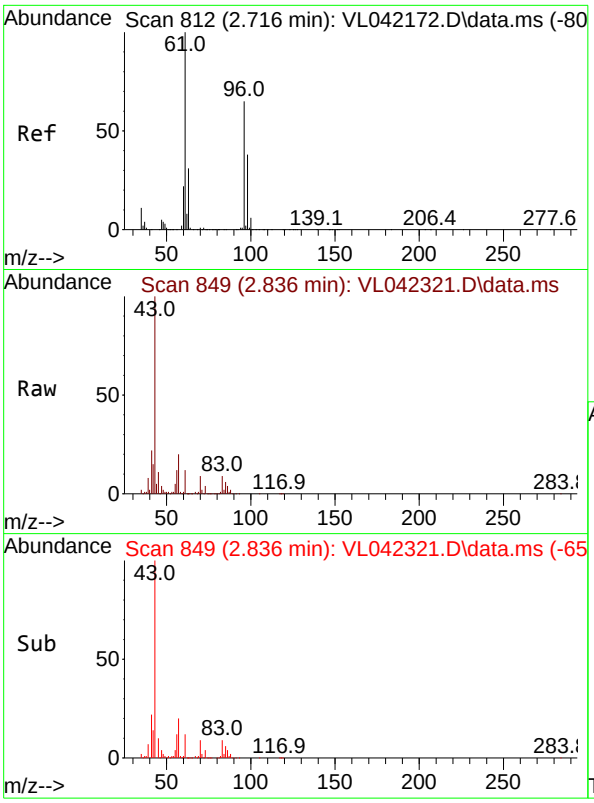




#29
Chloroform
Concen: 1.478 ppbv
RT: 2.848 min Scan# 853
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion: 83 Resp: 55947

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.0 | 51.4 | 77.2 |



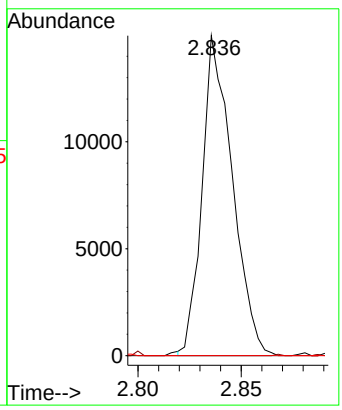


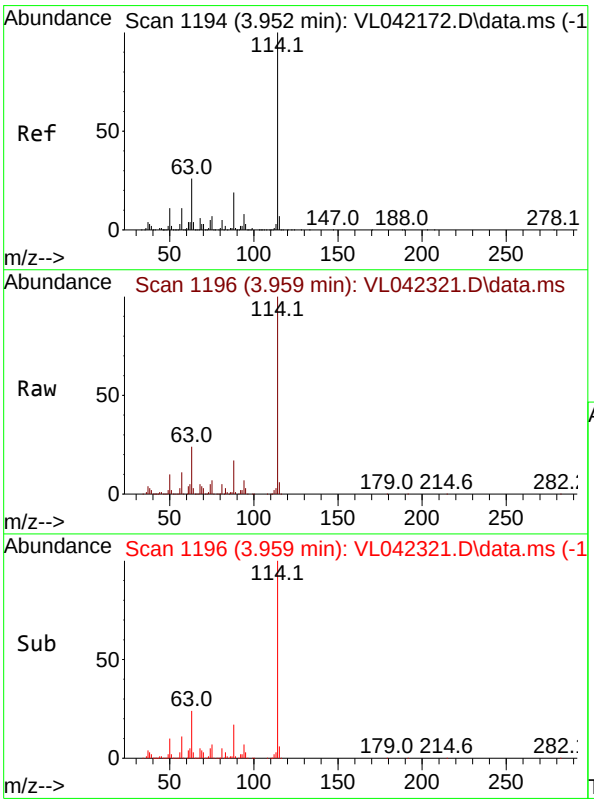

#31
cis-1,2-Dichloroethene
Concen: 0.581 ppbv
RT: 2.836 min Scan# 8
Delta R.T. 0.120 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025

Tgt Ion: 61 Resp: 15260

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 0.0 | 51.8 | 77.8# |
| 98 | 0.0 | 30.6 | 46.0# |

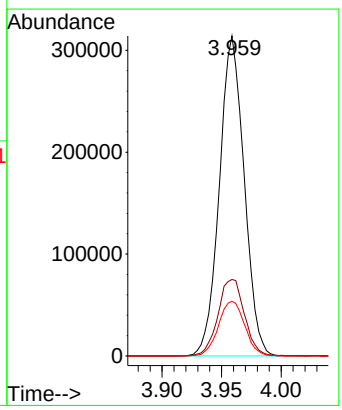


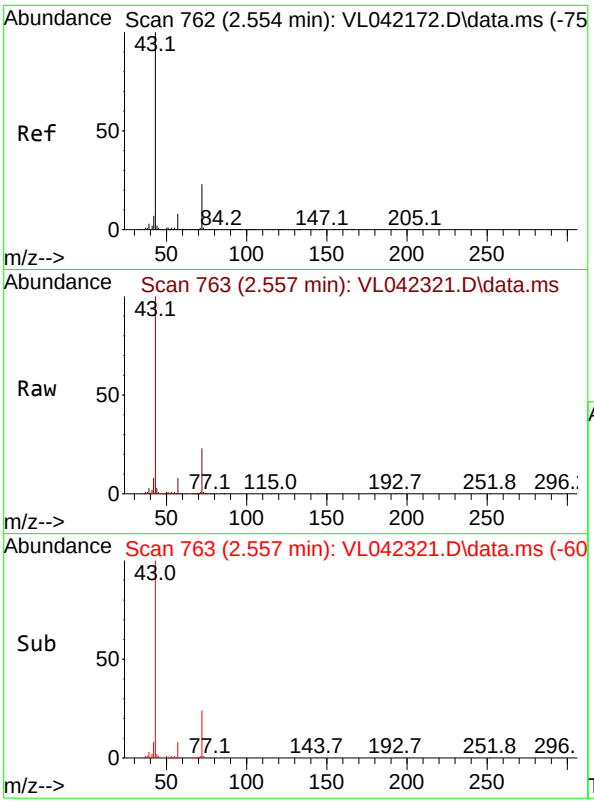




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.006 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion:114 Resp: 454008

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.7 | 20.7 | 31.1 |
| 88 | 18.1 | 15.0 | 22.4 |



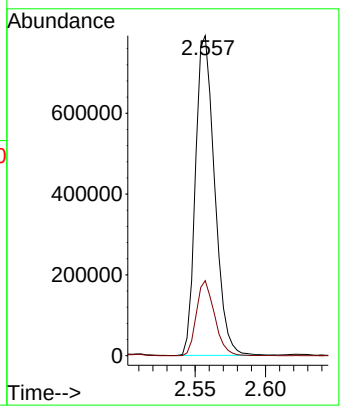


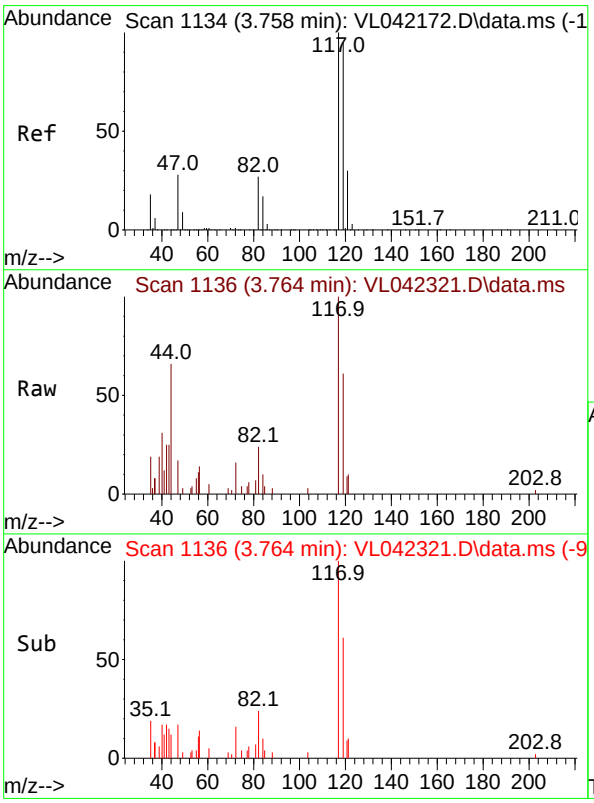

#34
2-Butanone
Concen: 22.673 ppbv
RT: 2.557 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025

Tgt Ion: 43 Resp: 746435

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 22.4 | 18.2 | 27.2 |

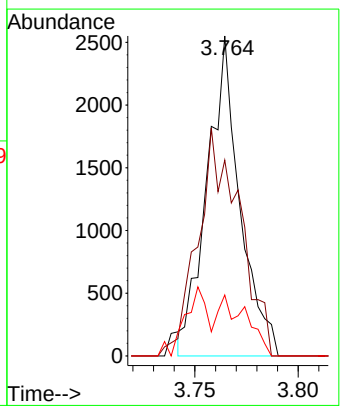


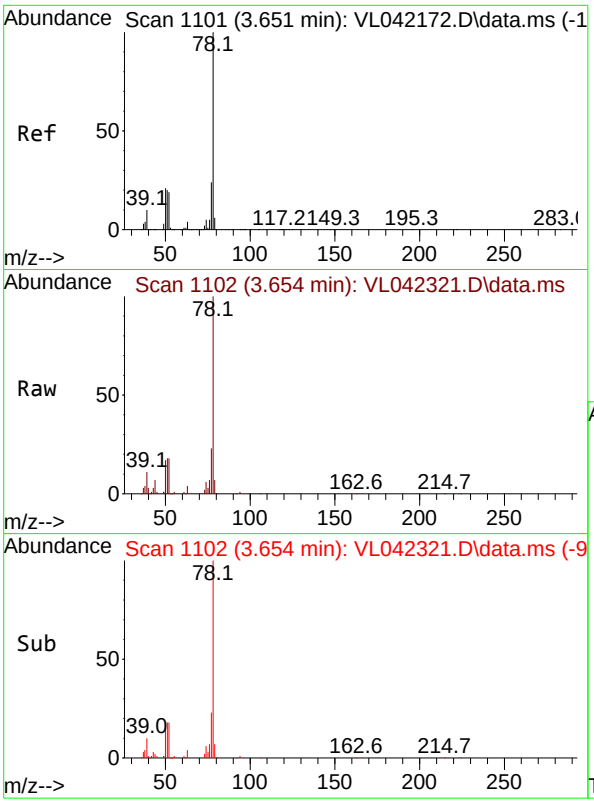




#35
Carbon Tetrachloride
Concen: 0.080 ppbv
RT: 3.764 min Scan# 1136
Delta R.T. 0.006 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion:117 Resp: 2821

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 61.2 | 76.2 | 114.2# |
| 121 | 19.1 | 24.2 | 36.4# |



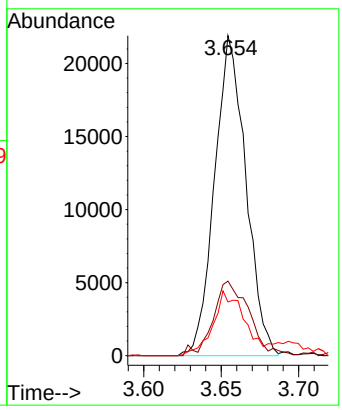


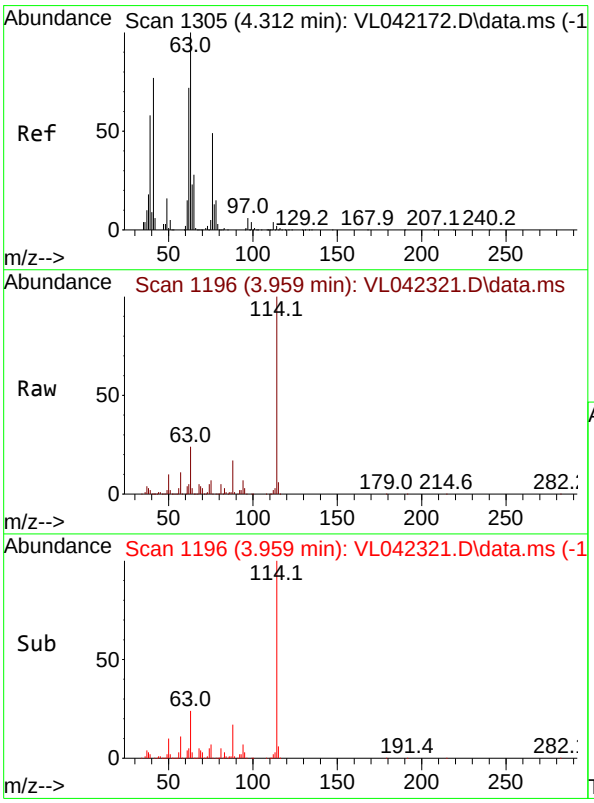

#36
Benzene
Concen: 0.683 ppbv
RT: 3.654 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025

Tgt Ion: 78 Resp: 30723

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.3 | 19.1 | 28.7 |
| 50 | 16.8 | 16.6 | 24.8 |

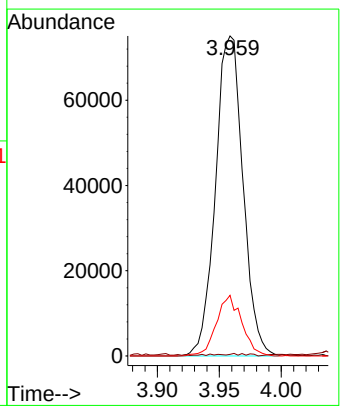


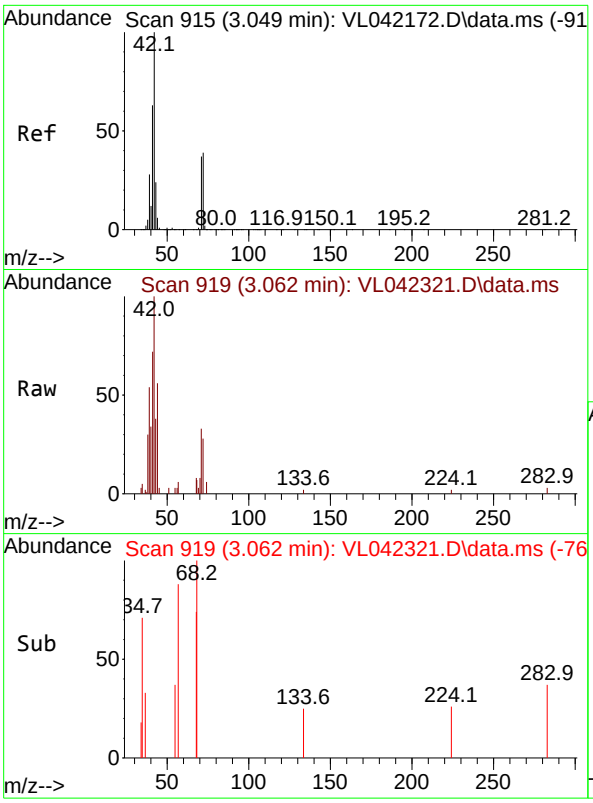




#39
1,2-Dichloropropane
Concen: 7.084 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.353 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion: 63 Resp: 116117

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 0.1 | 61.7 | 92.5# |
| 62 | 19.0 | 57.6 | 86.4# |



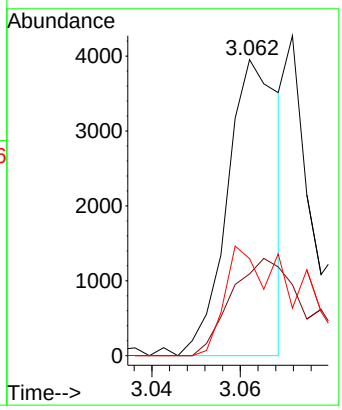


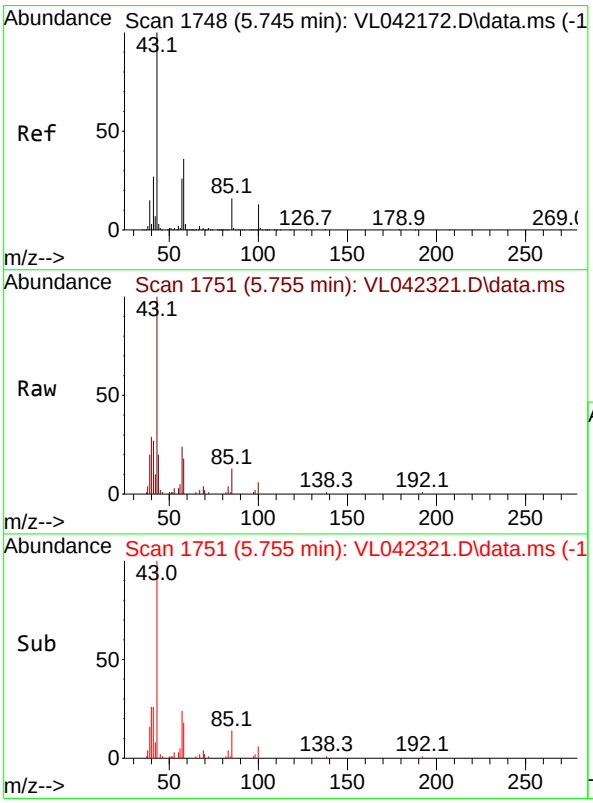

#41
Tetrahydrofuran
Concen: 0.168 ppbv
RT: 3.062 min Scan# 91
Delta R.T. 0.013 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025

Tgt Ion: 42 Resp: 3180

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 0.0 | 31.4 | 47.0# |
| 71 | 54.2 | 30.2 | 45.4# |

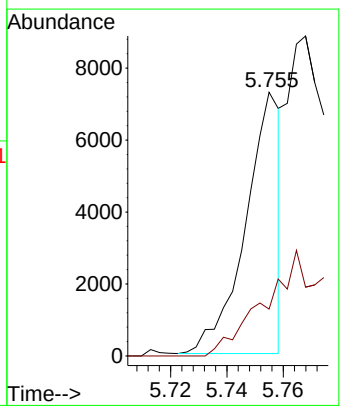


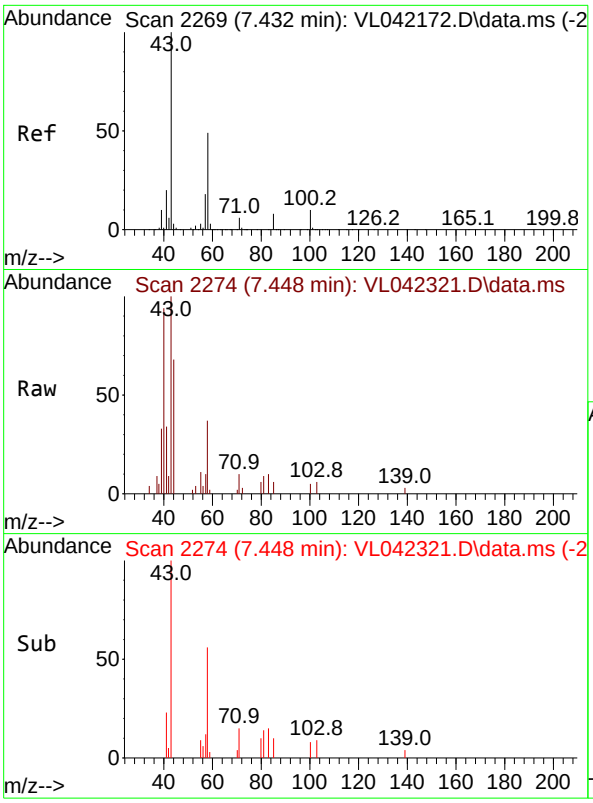




#50
4-Methyl-2-Pentanone
Concen: 0.120 ppbv
RT: 5.755 min Scan# 1751
Delta R.T. 0.009 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion: 43 Resp: 6238

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 0.0 | 29.0 | 43.6# |



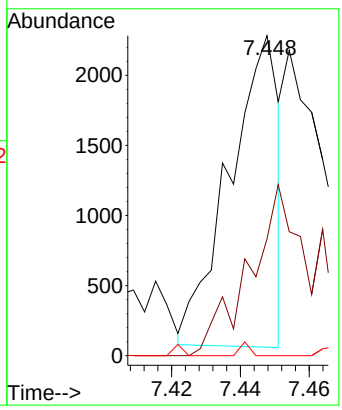


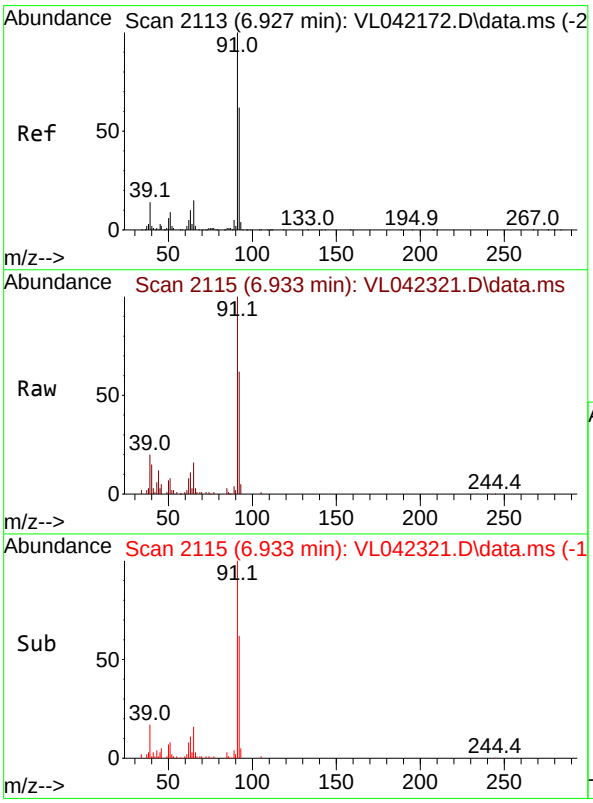

#51
2-Hexanone
Concen: 0.052 ppbv
RT: 7.448 min Scan# 2
Delta R.T. 0.016 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025

Tgt Ion: 43 Resp: 2209

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 0.0 | 39.7 | 59.5# |
| 98 | 0.0 | 0.1 | 0.1# |

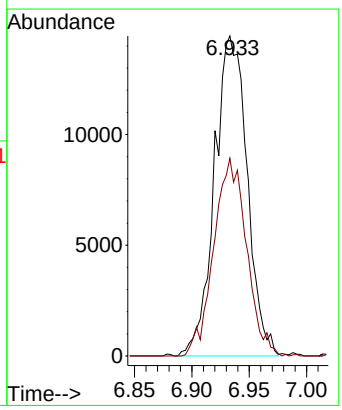


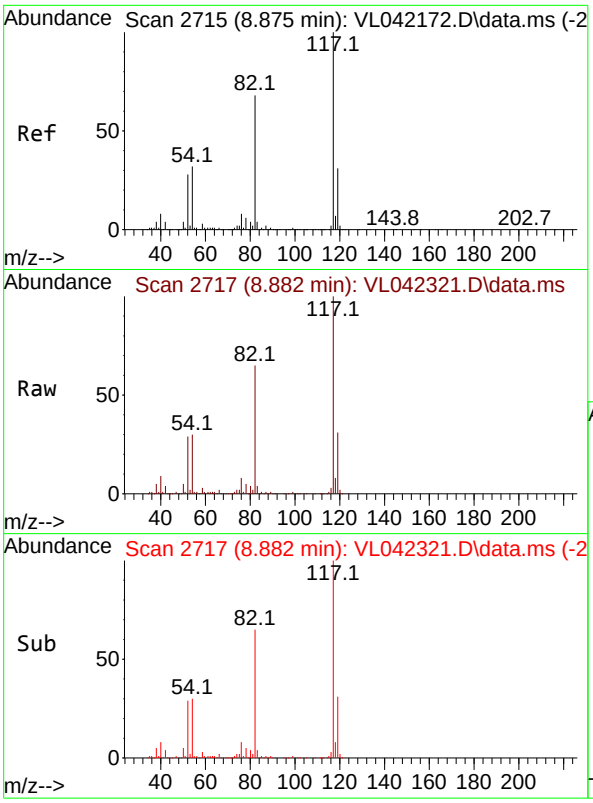




#53
Toluene
Concen: 0.538 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.006 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion: 91 Resp: 28699

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 61.8 | 48.4 | 72.6 |



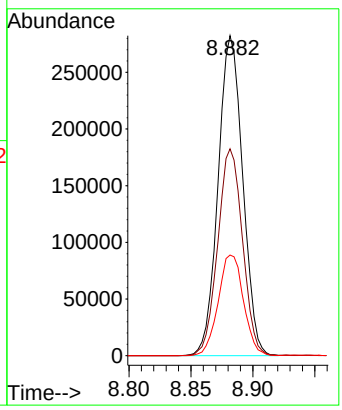


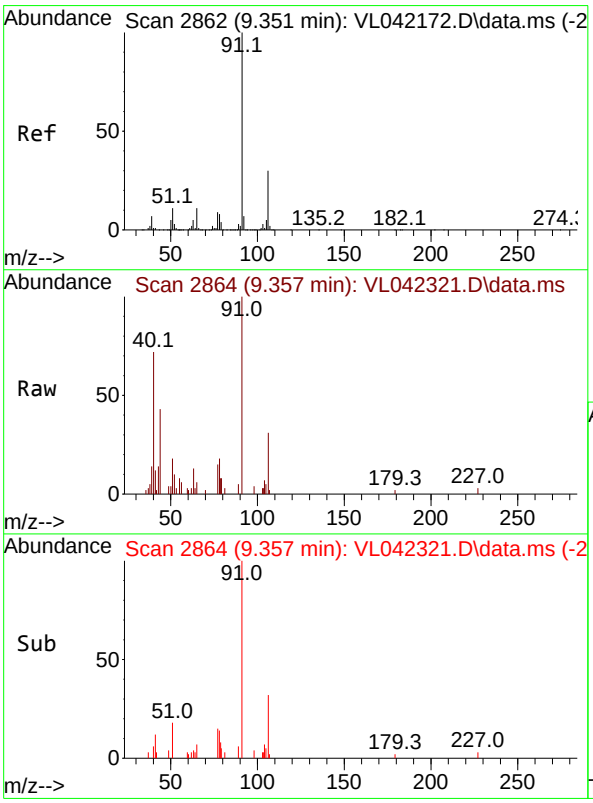

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025

Tgt Ion:117 Resp: 391031

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 65.2 | 55.8 | 83.6 |
| 119 | 32.4 | 25.5 | 38.3 |

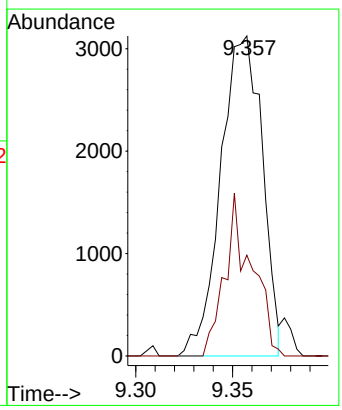


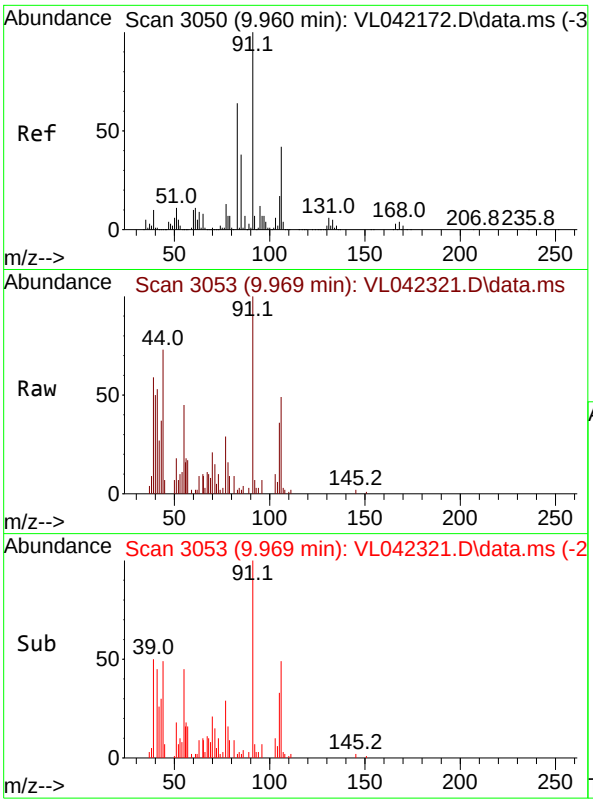




#58
Ethyl Benzene
Concen: 0.067 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. 0.006 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion: 91 Resp: 4656

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.5 | 24.2 | 36.2 |



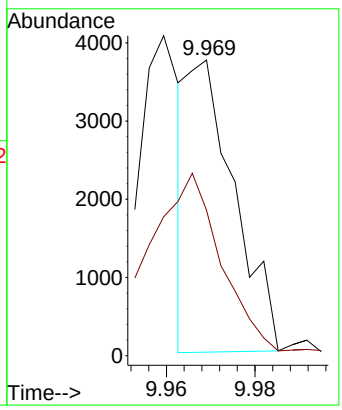


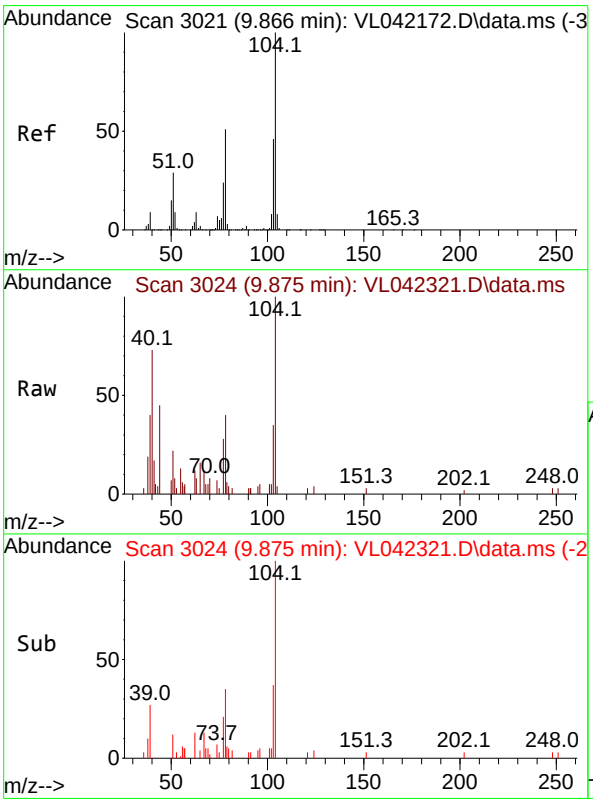

#60
o-Xylene
Concen: 0.049 ppbv
RT: 9.969 min Scan# 3
Delta R.T. 0.009 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025

Tgt Ion: 91 Resp: 2749

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 102.7 | 20.8 | 62.5# |

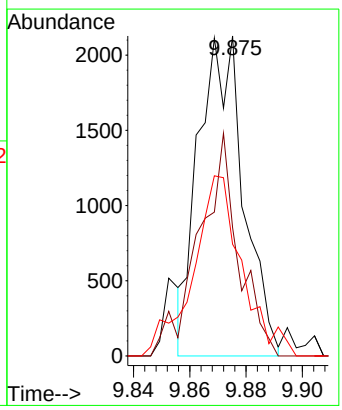


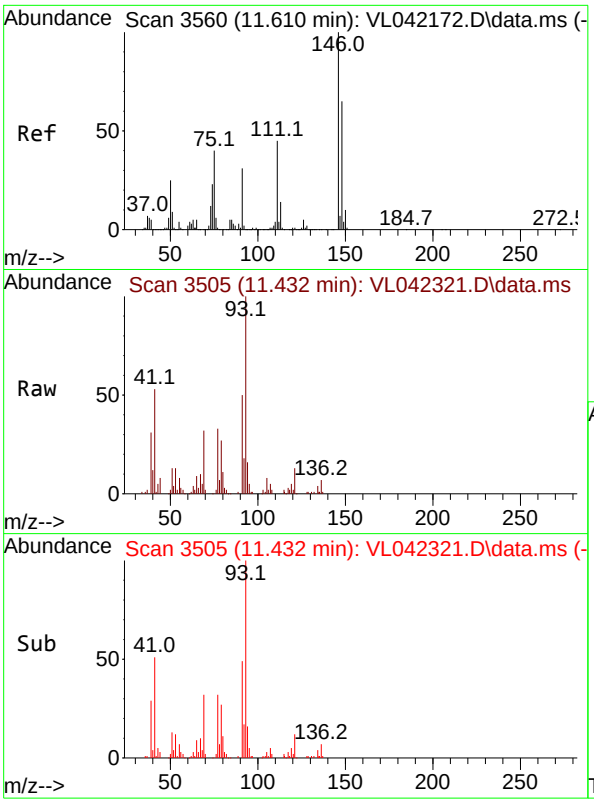




#61
Styrene
Concen: 0.086 ppbv
RT: 9.875 min Scan# 3024
Delta R.T. 0.009 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion:104 Resp: 2355

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 61.0 | 41.8 | 62.6 |
| 103 | 61.4 | 37.0 | 55.4# |



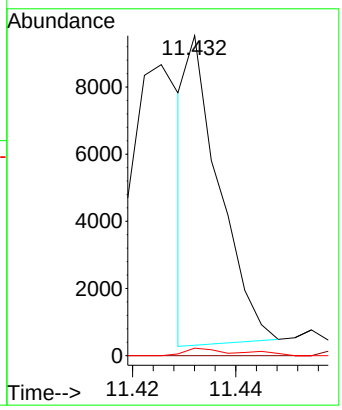


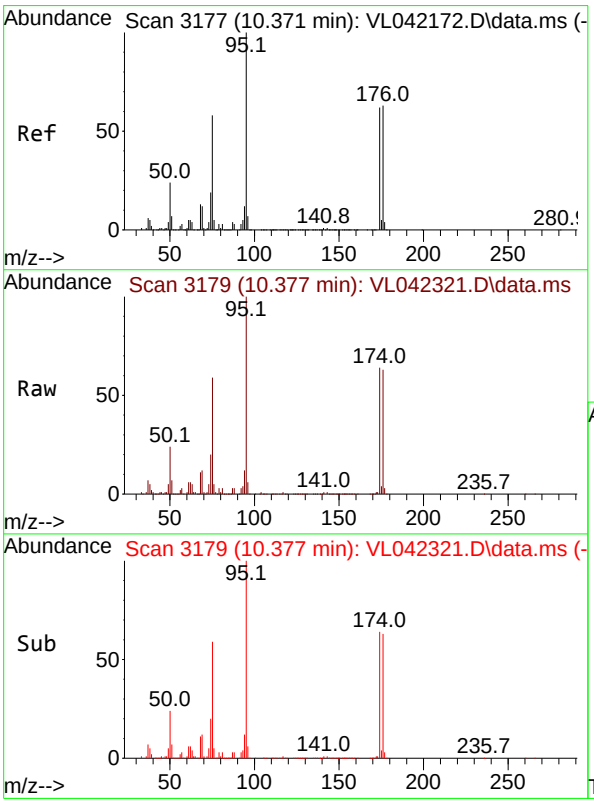

#66
Benzyl Chloride
Concen: 0.490 ppbv
RT: 11.432 min Scan# 3
Delta R.T. -0.178 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025

Tgt Ion: 91 Resp: 3998

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 0.0 | 13.8 | 20.6# |
| 128 | 4.0 | 4.5 | 6.7# |

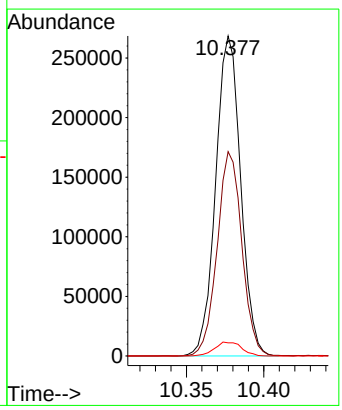


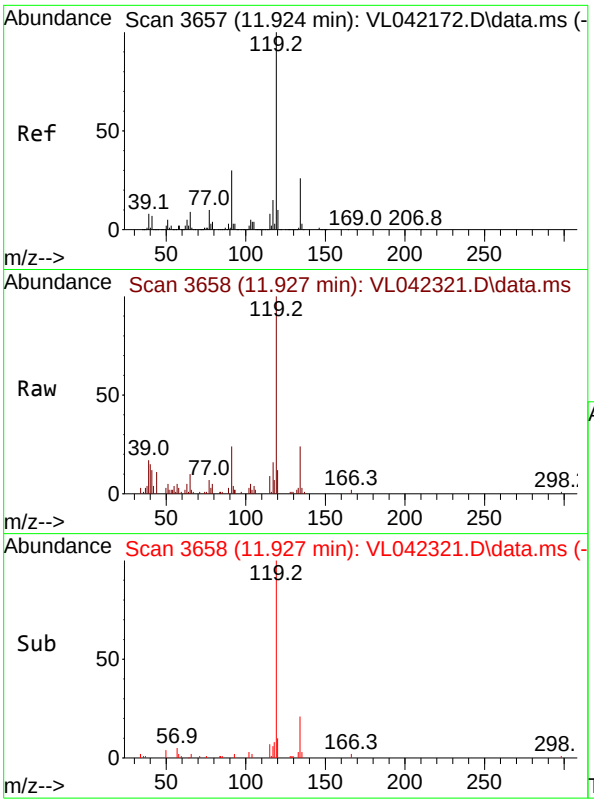




#68
1-Bromo-4-Fluorobenzene
Concen: 9.386 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.006 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion: 95 Resp: 301415

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 63.4 | 50.6 | 76.0 |
| 175 | 4.7 | 3.8 | 5.6 |



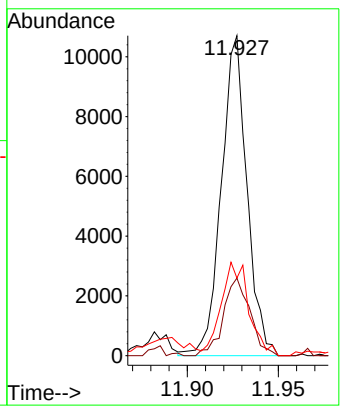


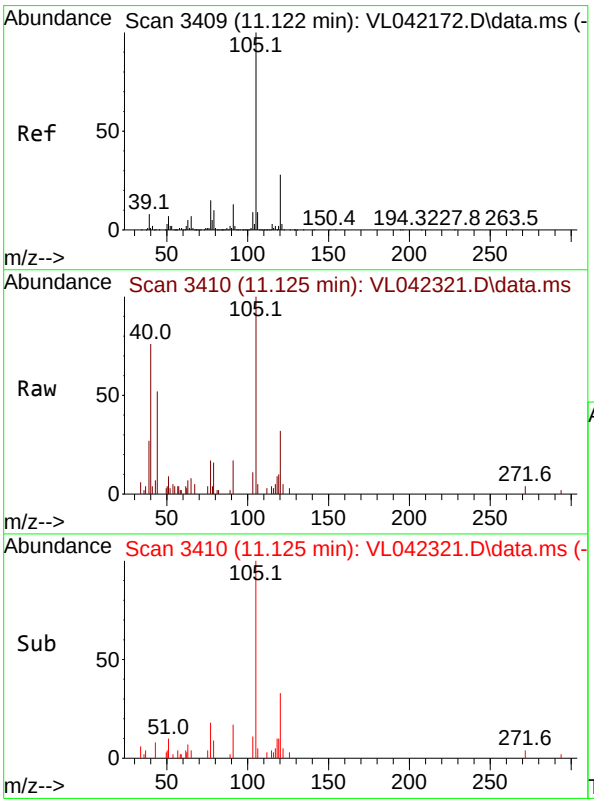

#69
p-Isopropyltoluene
Concen: 0.114 ppbv
RT: 11.927 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025

Tgt Ion:119 Resp: 10463

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.2 | 20.4 | 30.6 |
| 91 | 36.3 | 23.7 | 35.5# |

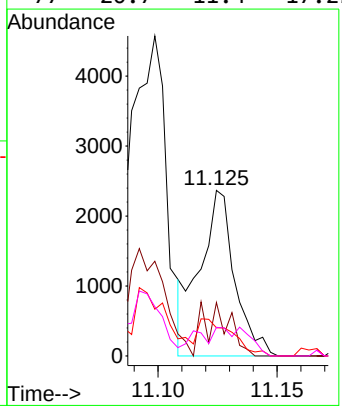


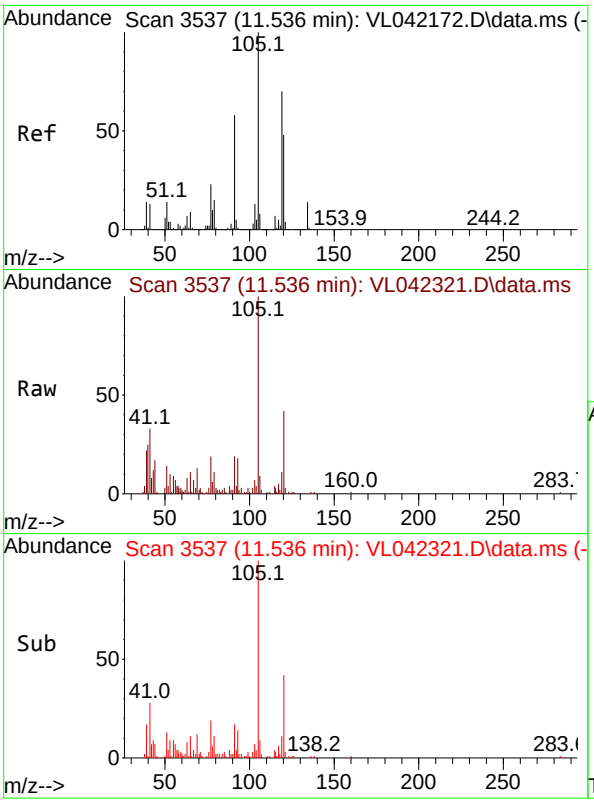




#72
4-Ethyltoluene
Concen: 0.035 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion:105 Resp: 2438

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 23.2 | 23.4 | 35.0# |
| 91 | 0.0 | 10.3 | 15.5# |
| 77 | 20.7 | 11.4 | 17.2# |



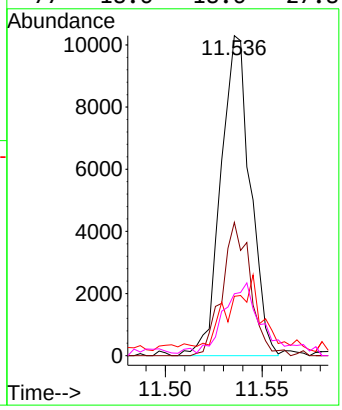


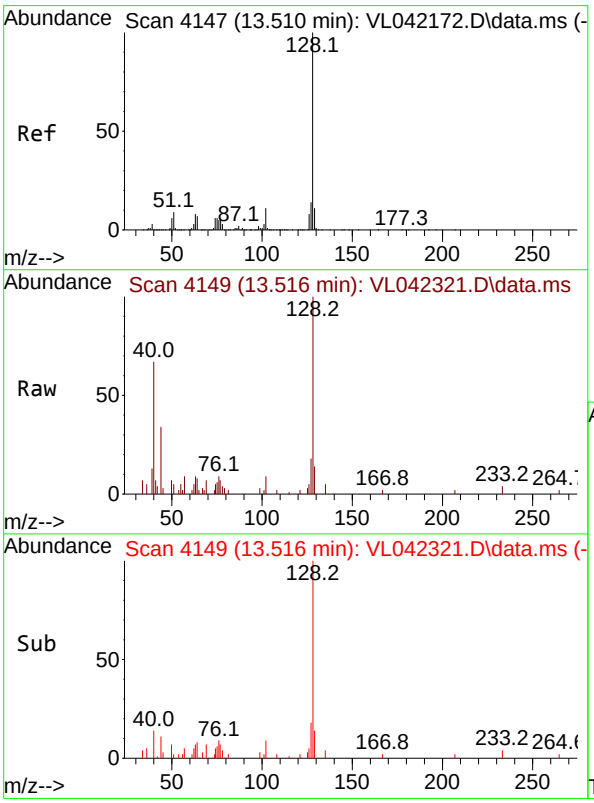

#74
1,2,4-Trimethylbenzene
Concen: 0.156 ppbv
RT: 11.536 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-3-3242025

Tgt Ion:105 Resp: 10882

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 40.0 | 38.6 | 58.0 |
| 91 | 15.8 | 46.2 | 69.2# |
| 77 | 18.6 | 18.6 | 27.8 |

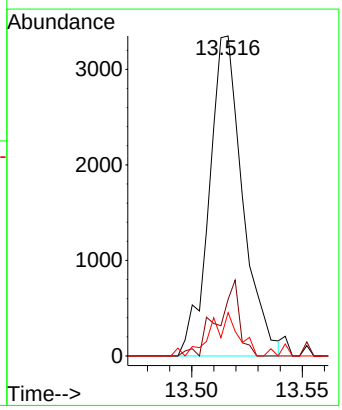



#79
Naphthalene
Concen: 0.046 ppbv
RT: 13.516 min Scan# 4149
Delta R.T. 0.006 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion:128 Resp: 3524

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 17.7 | 10.8 | 16.2# |
| 129 | 13.5 | 9.0 | 13.4# |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042323.D
Acq On : 11 Apr 2025 16:39
Operator : SY/MD
Sample : Q1665-10DL 40X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025DL

Quant Time: Apr 11 23:02:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

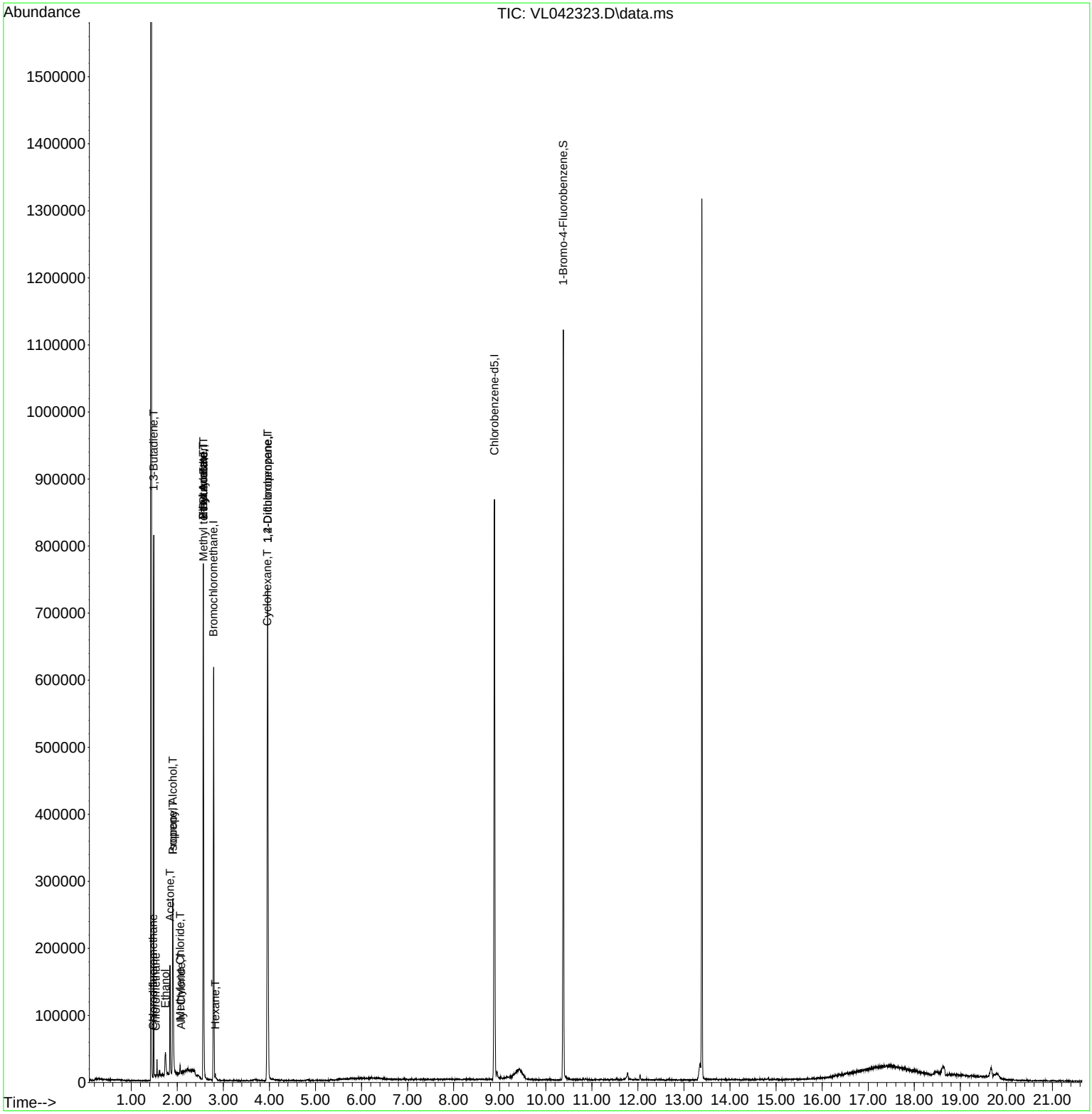
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 2.787 | 49 | 173105 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.962 | 114 | 400666 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.885 | 117 | 338211 | 10.000 | ppbv | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.380 | 95 | 253785 | 9.137 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 91.400% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 3) Chlorodifluoromethane | 1.476 | 51 | 950 | 0.036 | ppbv | # | 58 |
| 4) Chloromethane | 1.531 | 50 | 389 | 0.037 | ppbv | | 89 |
| 9) Propene | 1.900 | 41 | 20921 | 1.748 | ppbv | | 96 |
| 13) Ethanol | 1.742 | 45 | 31113 | 27.501 | ppbv | | 85 |
| 15) Acetone | 1.842 | 43 | 84634 | 3.496 | ppbv | | 95 |
| 16) 1,3-Butadiene | 1.489 | 39 | 85279 | 7.213 | ppbv | # | 12 |
| 19) Isopropyl Alcohol | 1.900 | 45 | 207505 | 15.191 | ppbv | # | 34 |
| 20) Methylene Chloride | 2.062 | 84 | 1746 | 0.194 | ppbv | # | 71 |
| 21) Allyl Chloride | 2.081 | 41 | 584 | 0.034 | ppbv | # | 21 |
| 23) Vinyl Acetate | 2.564 | 43 | 510012 | 48.674 | ppbv | # | 87 |
| 25) Ethyl Acetate | 2.564 | 43 | 510012 | 8.117 | ppbv | # | 76 |
| 26) Hexane | 2.826 | 57 | 1035 | 0.043 | ppbv | # | 1 |
| 28) Methyl tert-Butyl Ether | 2.567 | 73 | 4917 | 0.325 | ppbv | # | 1 |
| 30) Cyclohexane | 3.955 | 84 | 3209 | 0.152 | ppbv | # | 1 |
| 34) 2-Butanone | 2.564 | 43 | 510012 | 17.554 | ppbv | | 98 |
| 39) 1,2-Dichloropropane | 3.962 | 63 | 103631 | 7.164 | ppbv | # | 23 |

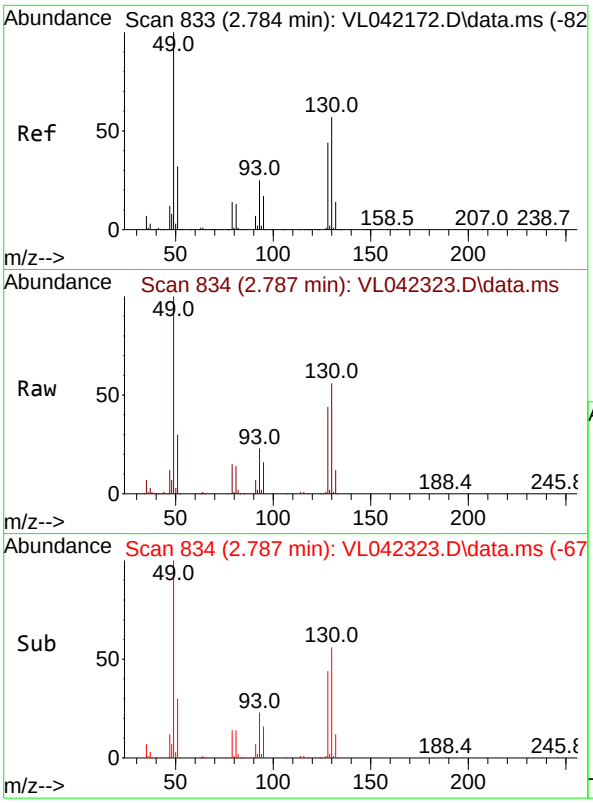
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042323.D
Acq On : 11 Apr 2025 16:39
Operator : SY/MD
Sample : Q1665-10DL 40X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025DL

Quant Time: Apr 11 23:02:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration



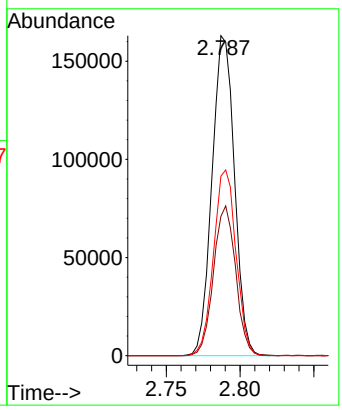


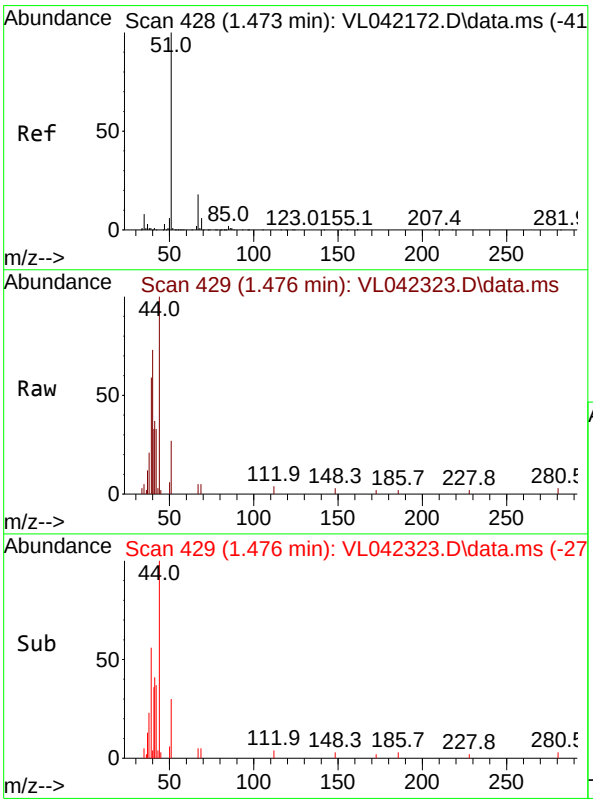

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025DL

Tgt Ion: 49 Resp: 173105

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 46.0 | 22.9 | 68.5 |
| 130 | 58.2 | 28.8 | 86.4 |

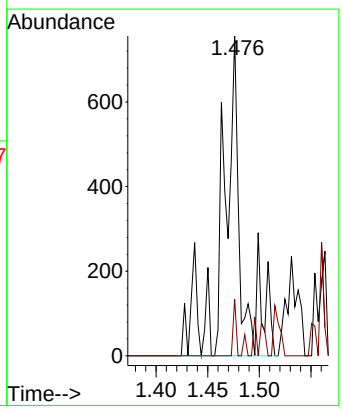


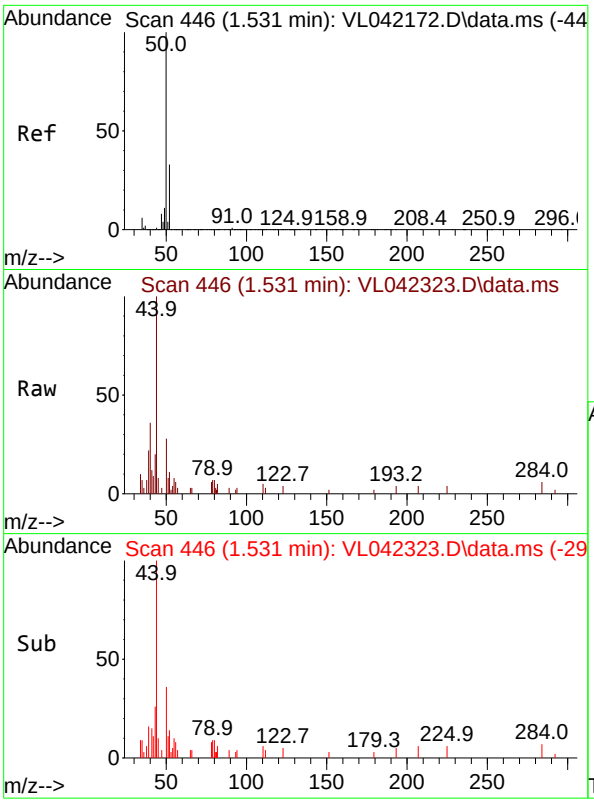




#3
Chlorodifluoromethane
Concen: 0.036 ppbv
RT: 1.476 min Scan# 429
Delta R.T. 0.003 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

Tgt Ion: 51 Resp: 950

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 0.0 | 15.0 | 22.6# |



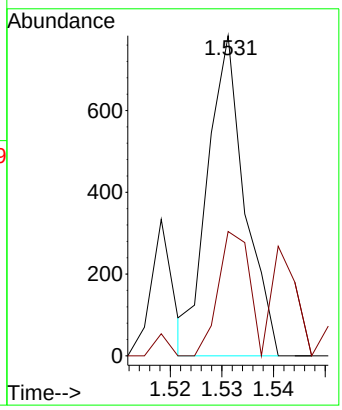


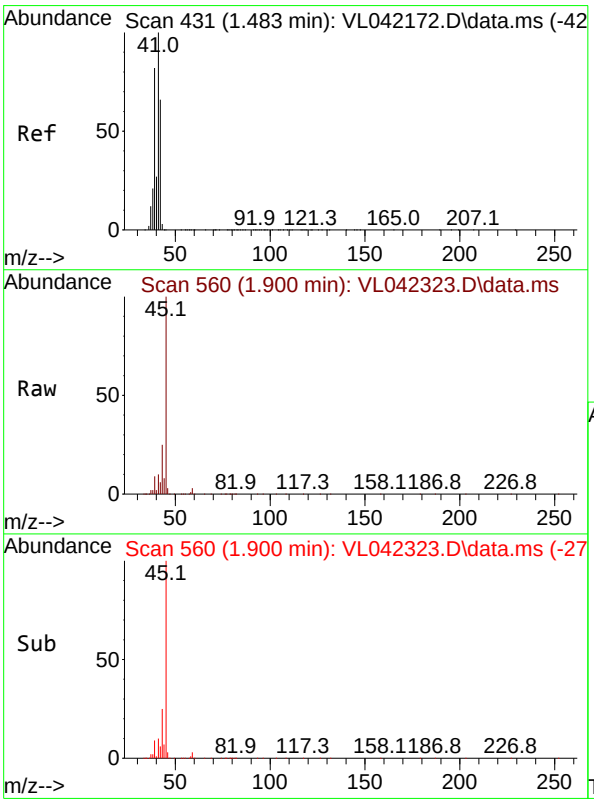

#4
Chloromethane
Concen: 0.037 ppbv
RT: 1.531 min Scan# 44
Delta R.T. -0.000 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025DL

Tgt Ion: 50 Resp: 389

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 38.8 | 26.1 | 39.1 |

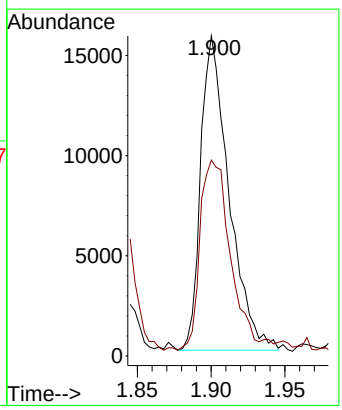


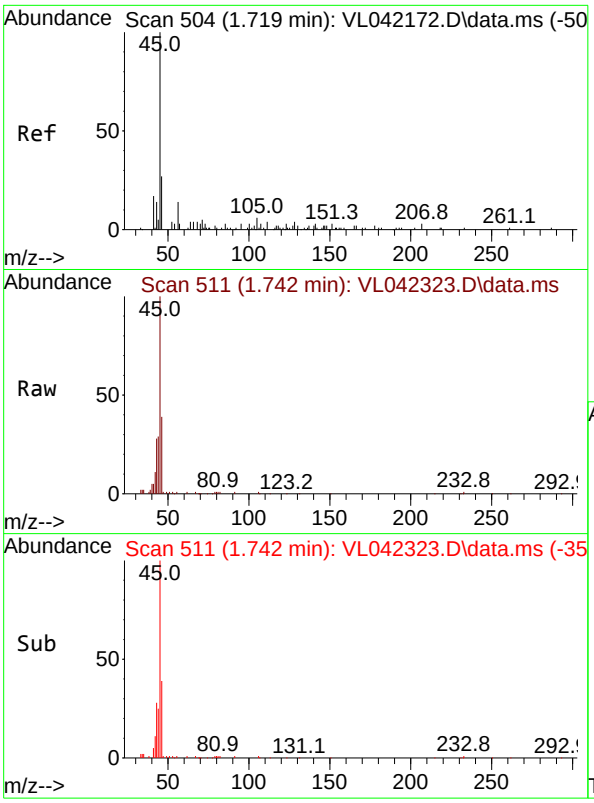




#9
Propene
Concen: 1.748 ppbv
RT: 1.900 min Scan# 560
Delta R.T. 0.417 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

Tgt Ion: 41 Resp: 20921

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 65.9 | 55.4 | 83.2 |



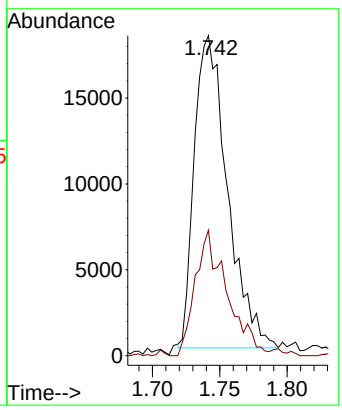


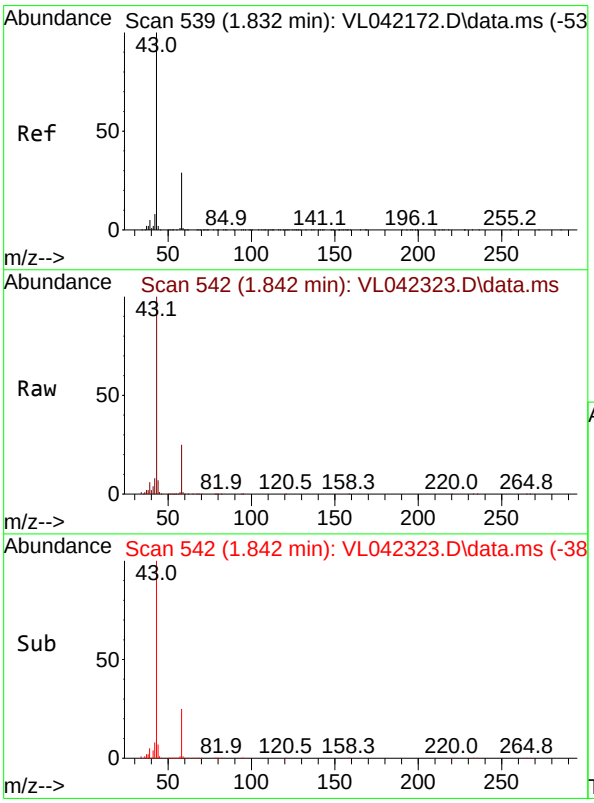

#13
Ethanol
Concen: 27.501 ppbv
RT: 1.742 min Scan# 5
Delta R.T. 0.022 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025DL

Tgt Ion: 45 Resp: 31113

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 40.0 | 20.2 | 80.8 |

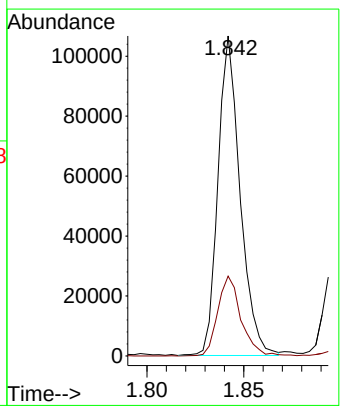


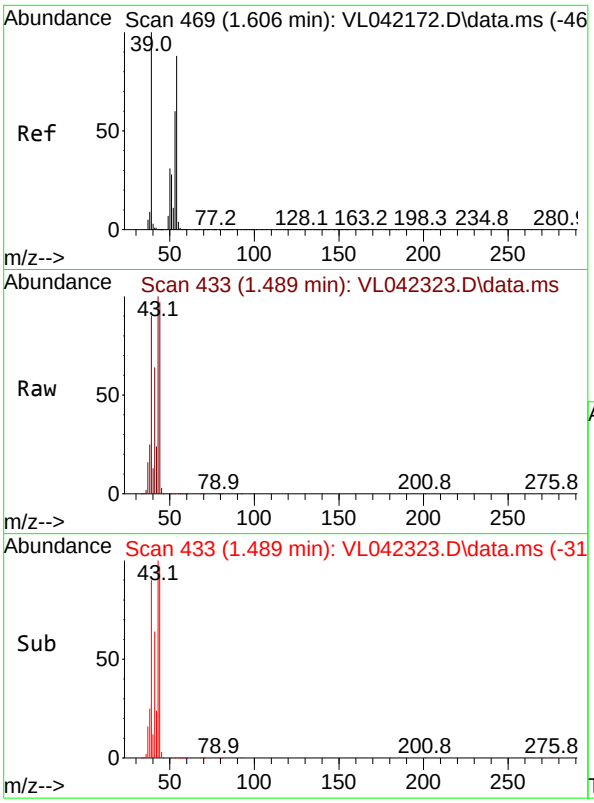




#15
Acetone
Concen: 3.496 ppbv
RT: 1.842 min Scan# 542
Delta R.T. 0.010 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

Tgt Ion: 43 Resp: 84634

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 26.3 | 23.2 | 34.8 |



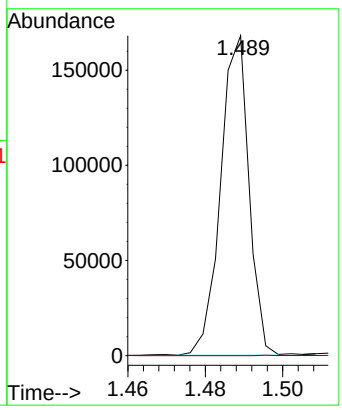


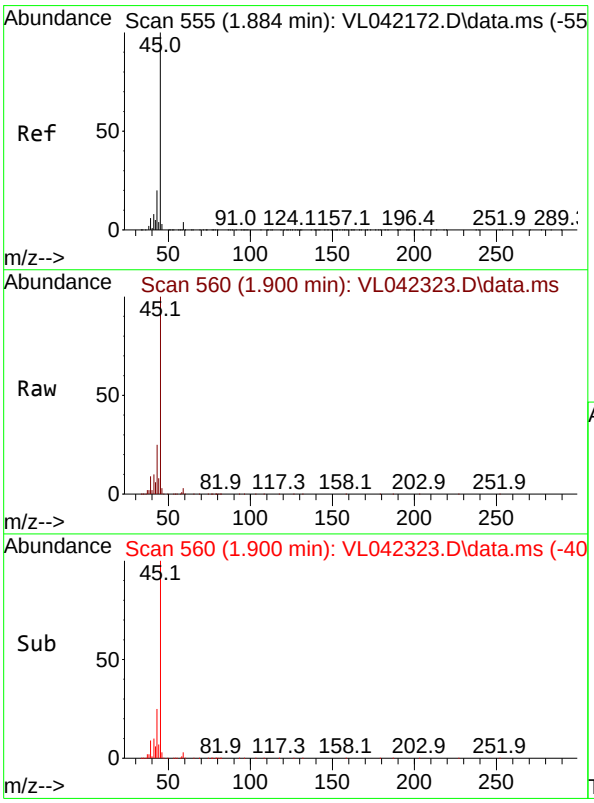

#16
1,3-Butadiene
Concen: 7.213 ppbv
RT: 1.489 min Scan# 4
Delta R.T. -0.117 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025DL

Tgt Ion: 39 Resp: 85279

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 0.2 | 60.7 | 91.1# |

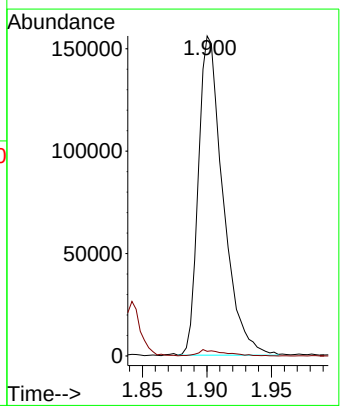


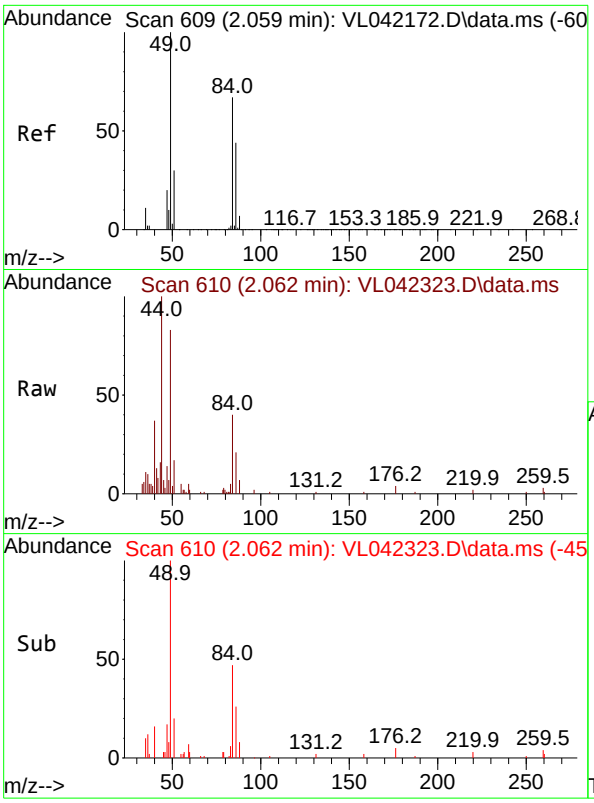




#19
Isopropyl Alcohol
Concen: 15.191 ppbv
RT: 1.900 min Scan# 560
Delta R.T. 0.016 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

Tgt Ion: 45 Resp: 207505

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 2.1 | 36.9 | 55.3# |



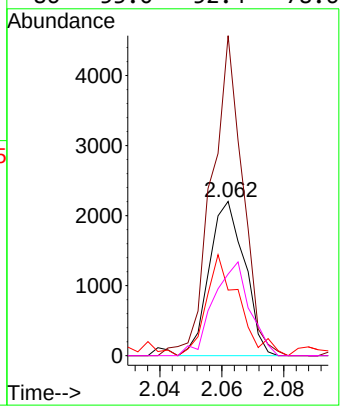


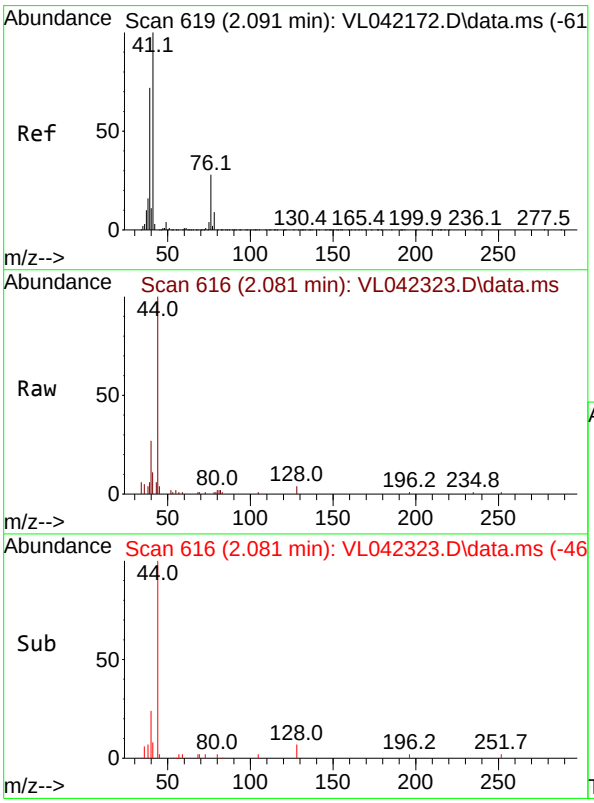

#20
Methylene Chloride
Concen: 0.194 ppbv
RT: 2.062 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025DL

Tgt Ion: 84 Resp: 1746

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 202.1 | 120.2 | 180.4# |
| 51 | 40.0 | 37.4 | 56.0 |
| 86 | 53.0 | 52.4 | 78.6 |

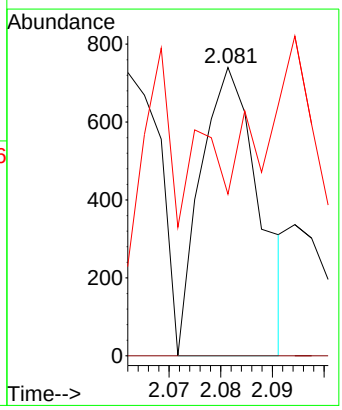


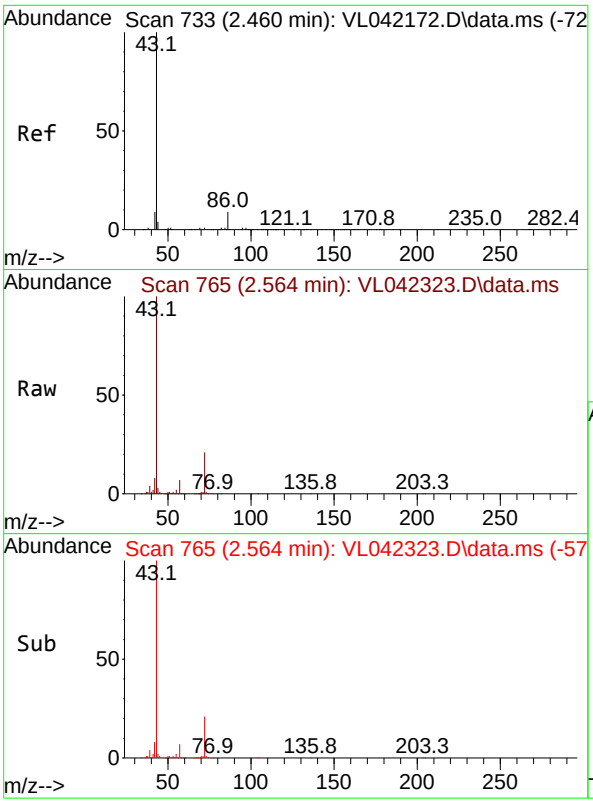




#21
Allyl Chloride
Concen: 0.034 ppbv
RT: 2.081 min Scan# 616
Delta R.T. -0.010 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

Tgt Ion: 41 Resp: 584

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 0.0 | 24.1 | 36.1# |
| 39 | 0.0 | 61.1 | 91.7# |



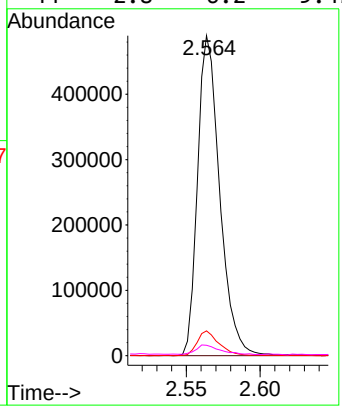


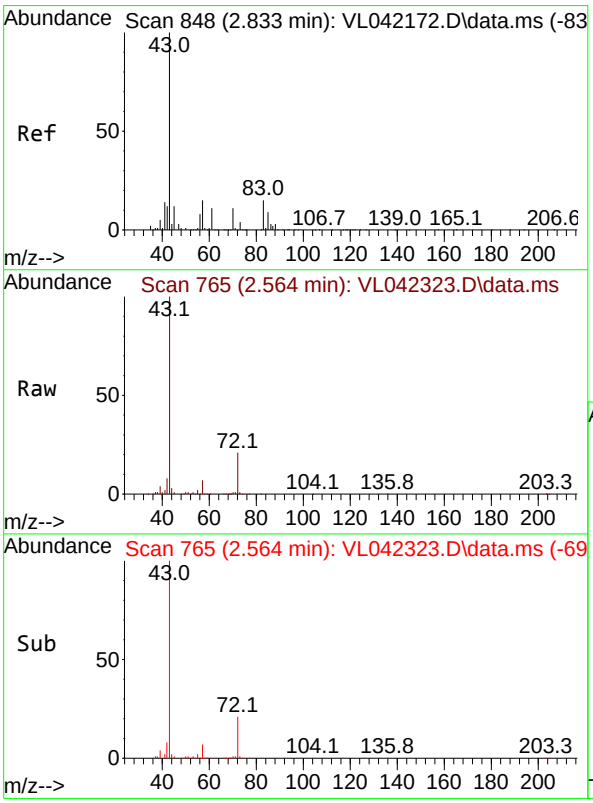

#23
Vinyl Acetate
Concen: 48.674 ppbv
RT: 2.564 min Scan# 7
Delta R.T. 0.103 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025DL

Tgt Ion: 43 Resp: 510012

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 0.0 | 5.5 | 8.3# |
| 42 | 7.7 | 8.6 | 13.0# |
| 44 | 2.8 | 6.2 | 9.4# |

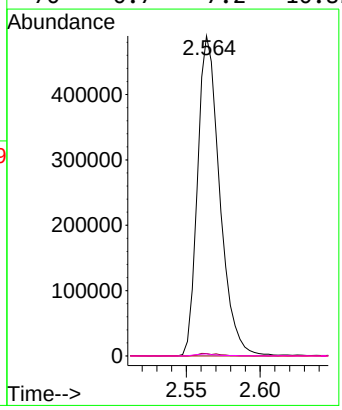


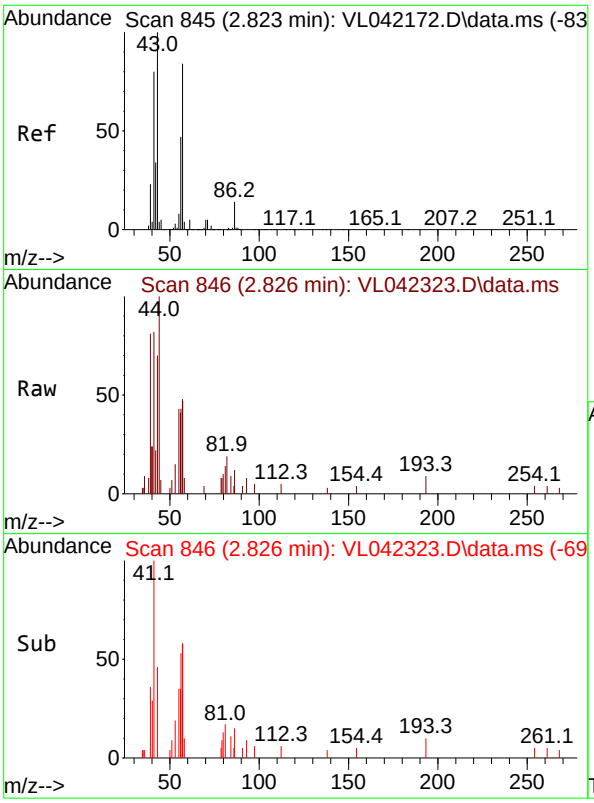




#25
Ethyl Acetate
Concen: 8.117 ppbv
RT: 2.564 min Scan# 765
Delta R.T. -0.269 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

Tgt Ion: 43 Resp: 510012

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 0.8 | 8.2 | 12.2# |
| 61 | 0.0 | 7.3 | 10.9# |
| 70 | 0.7 | 7.2 | 10.8# |



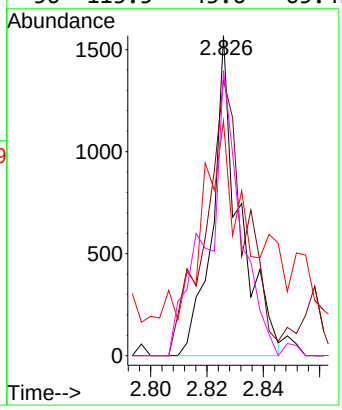


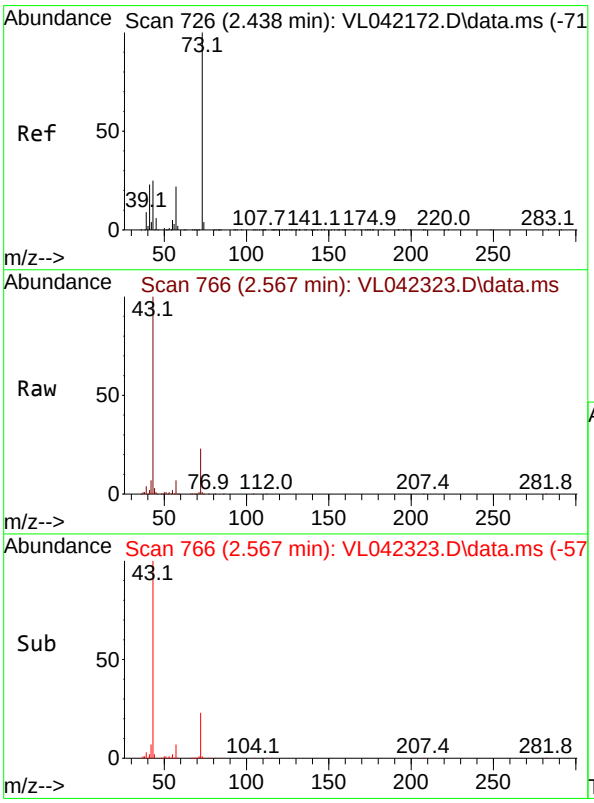

#26
Hexane
Concen: 0.043 ppbv
RT: 2.826 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025DL

Tgt Ion: 57 Resp: 1035

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 146.8 | 76.6 | 114.8# |
| 43 | 0.0 | 207.8 | 311.8# |
| 56 | 113.5 | 43.6 | 65.4# |

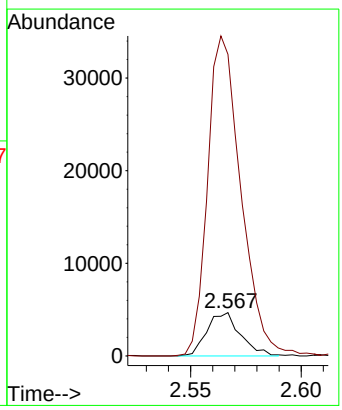


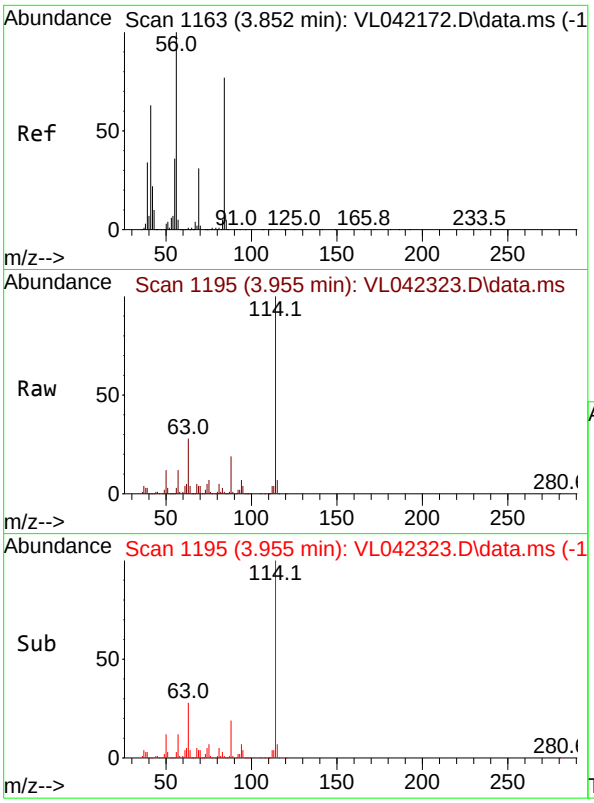




#28
Methyl tert-Butyl Ether
Concen: 0.325 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.129 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

Tgt Ion: 73 Resp: 4917

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 746.1 | 20.5 | 30.7# |



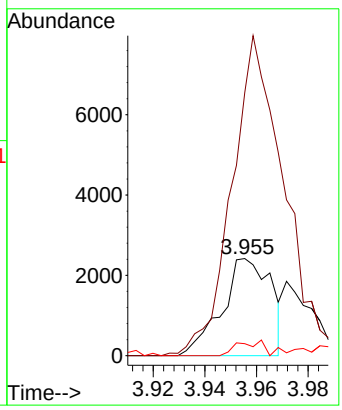


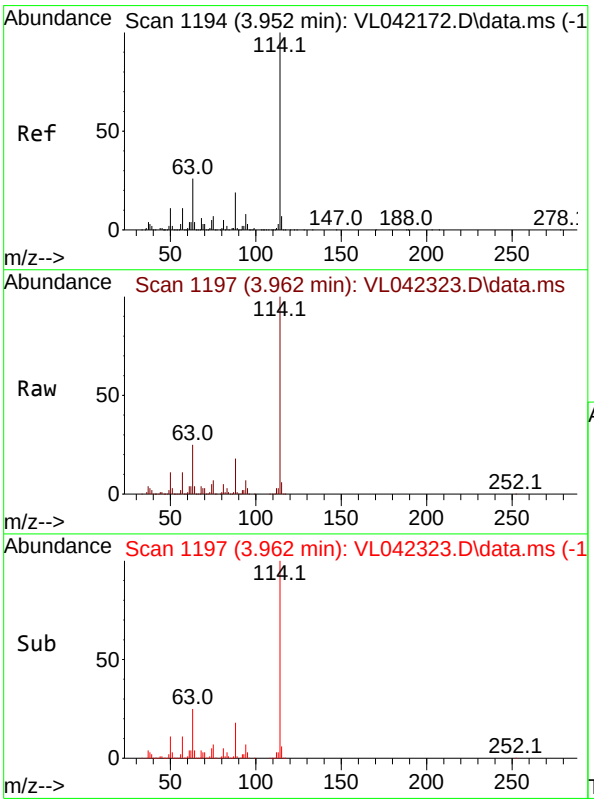

#30
Cyclohexane
Concen: 0.152 ppbv
RT: 3.955 min Scan# 11
Delta R.T. 0.103 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025DL

Tgt Ion: 84 Resp: 3209

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 356.4 | 102.8 | 154.2# |
| 41 | 16.9 | 66.5 | 99.7# |

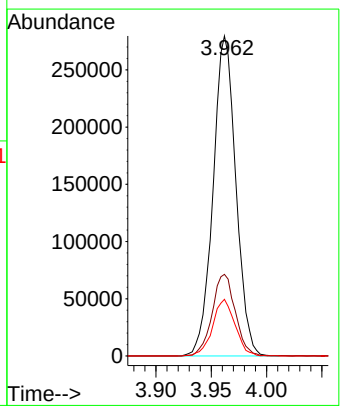


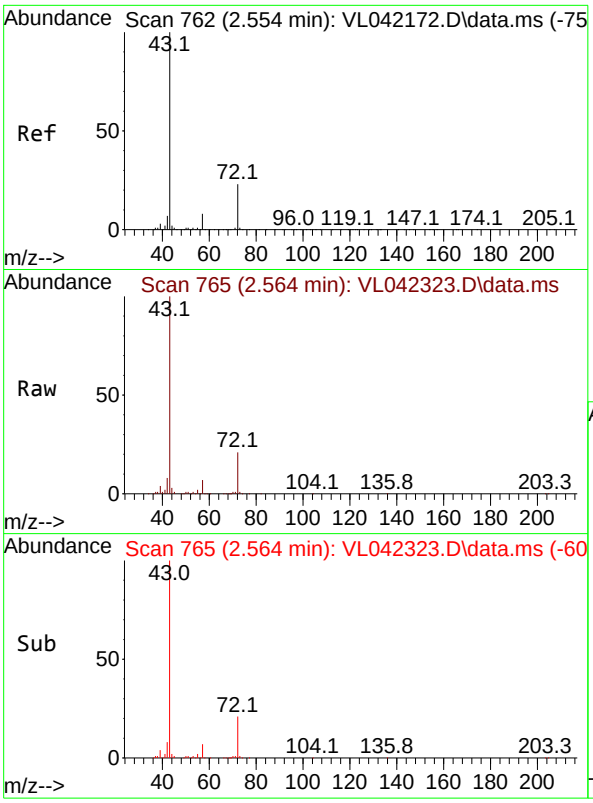




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.010 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

Tgt Ion:114 Resp: 400666

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.9 | 20.7 | 31.1 |
| 88 | 17.4 | 15.0 | 22.4 |



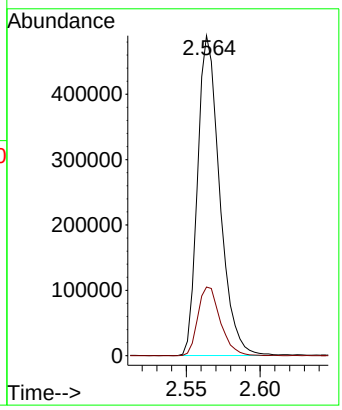


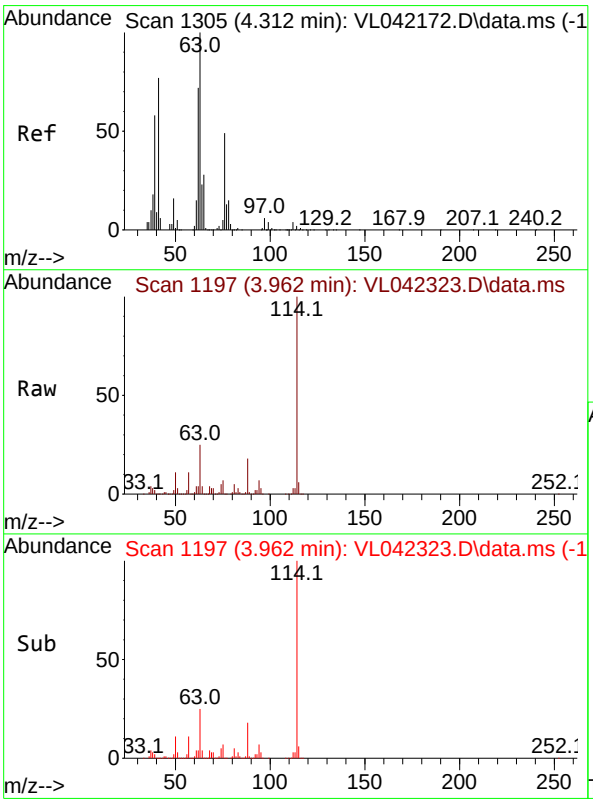

#34
2-Butanone
Concen: 17.554 ppbv
RT: 2.564 min Scan# 7
Delta R.T. 0.010 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025DL

Tgt Ion: 43 Resp: 510012

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 21.9 | 18.2 | 27.2 |

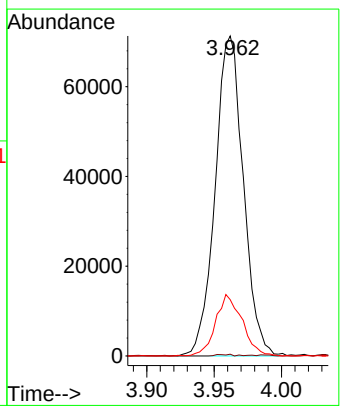


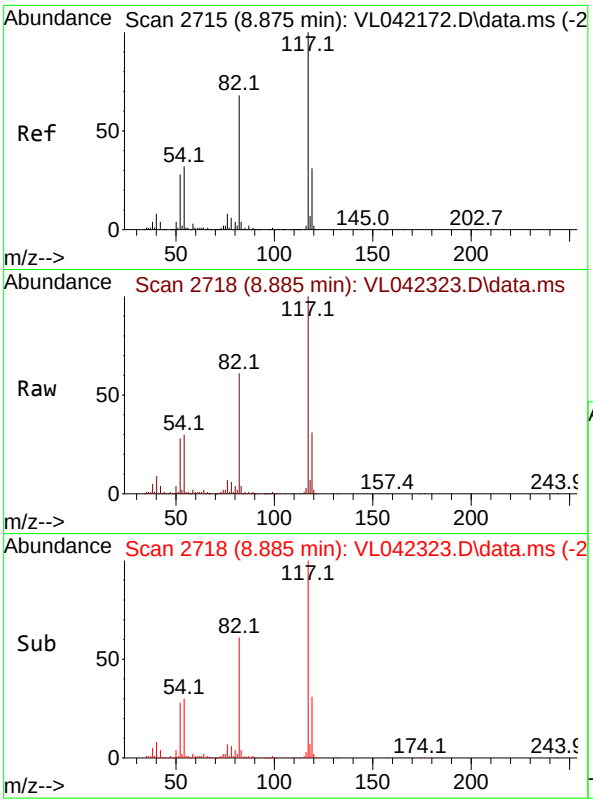




#39
1,2-Dichloropropane
Concen: 7.164 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. -0.350 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

Tgt Ion: 63 Resp: 103631

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 0.5 | 61.7 | 92.5# |
| 62 | 17.4 | 57.6 | 86.4# |



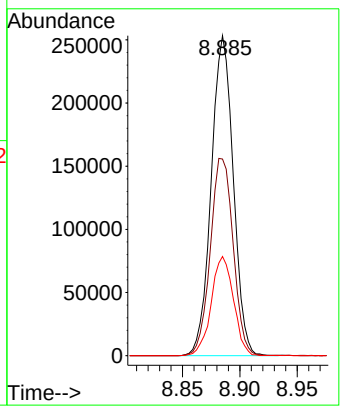


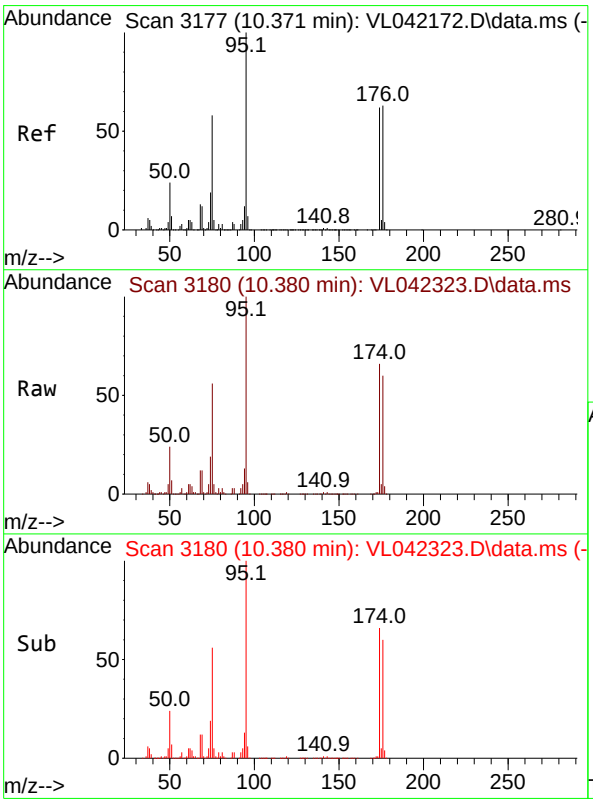

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025DL

Tgt Ion:117 Resp: 338211

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 64.2 | 55.8 | 83.6 |
| 119 | 31.4 | 25.5 | 38.3 |

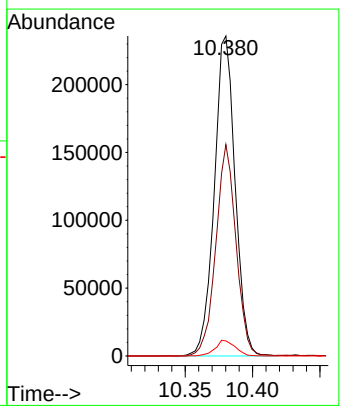



#68
1-Bromo-4-Fluorobenzene
Concen: 9.137 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.010 min
Lab File: VL042323.D
Acq: 11 Apr 2025 16:39

Tgt Ion: 95 Resp: 253785

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 64.4 | 50.6 | 76.0 |
| 175 | 4.7 | 3.8 | 5.6 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042324.D
Acq On : 11 Apr 2025 17:10
Operator : SY/MD
Sample : Q1665-11DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025DL

Quant Time: Apr 11 23:03:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

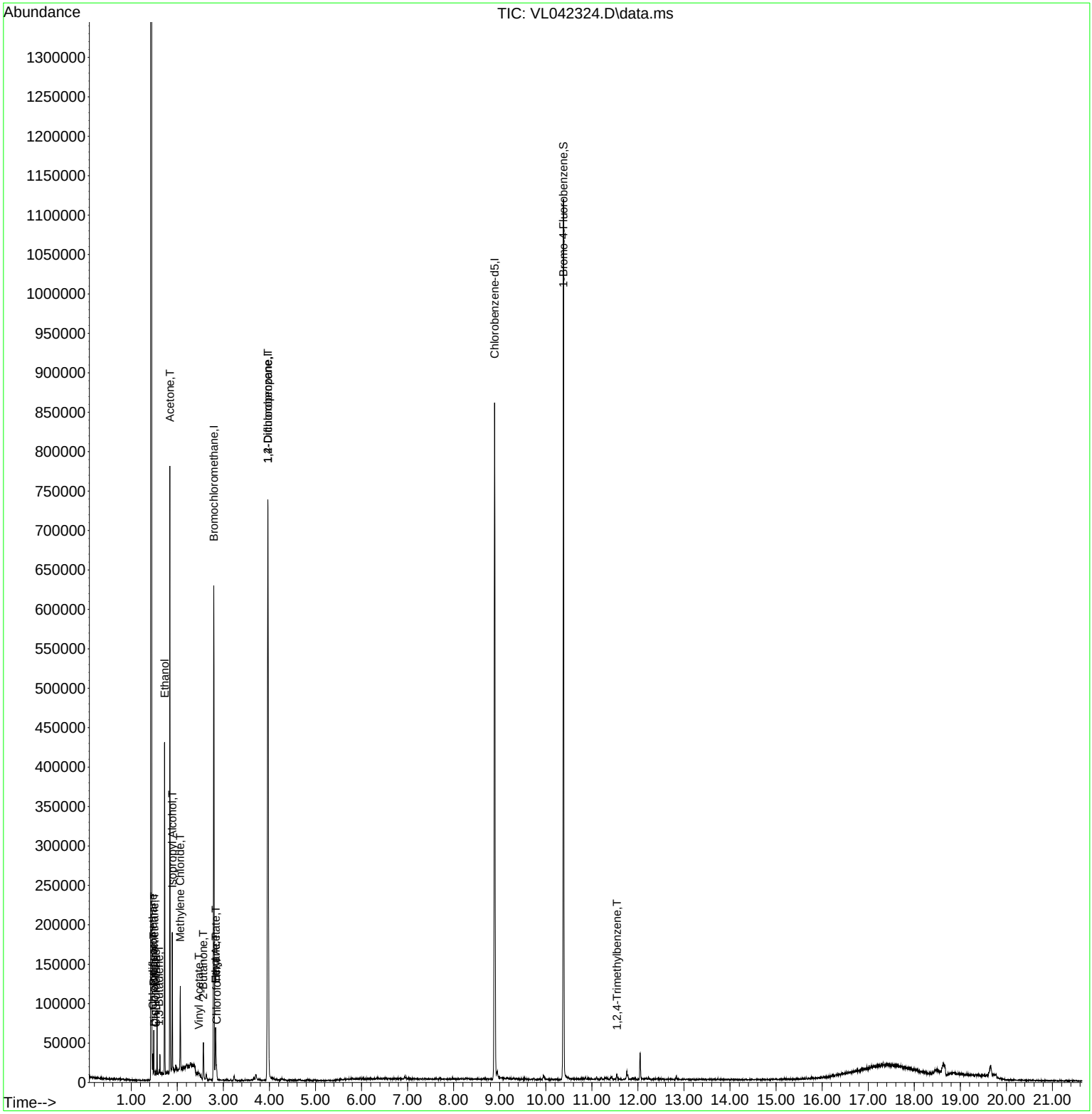
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 2.793 | 49 | 176603 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.968 | 114 | 398133 | 10.000 | ppbv | | 0.02 |
| 55) Chlorobenzene-d5 | 8.888 | 117 | 325777 | 10.000 | ppbv | | 0.01 |
| System Monitoring Compounds | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.383 | 95 | 246592 | 9.217 | ppbv | | 0.01 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 92.200% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.502 | 85 | 1409 | 0.054 | ppbv | | 100 |
| 3) Chlorodifluoromethane | 1.470 | 51 | 7277 | 0.273 | ppbv | # | 64 |
| 4) Chloromethane | 1.534 | 50 | 743 | 0.070 | ppbv | # | 29 |
| 9) Propene | 1.489 | 41 | 4857 | 0.398 | ppbv | | 87 |
| 13) Ethanol | 1.725 | 45 | 151755 | 131.481 | ppbv | | 81 |
| 15) Acetone | 1.839 | 43 | 316091 | 12.798 | ppbv | | 96 |
| 16) 1,3-Butadiene | 1.602 | 39 | 1089 | 0.090 | ppbv | # | 58 |
| 19) Isopropyl Alcohol | 1.890 | 45 | 67257 | 4.826 | ppbv | # | 1 |
| 20) Methylene Chloride | 2.065 | 84 | 15039 | 1.635 | ppbv | | 90 |
| 23) Vinyl Acetate | 2.473 | 43 | 551 | 0.052 | ppbv | # | 38 |
| 25) Ethyl Acetate | 2.832 | 43 | 12443 | 0.194 | ppbv | # | 90 |
| 26) Hexane | 2.832 | 57 | 10875 | 0.439 | ppbv | # | 41 |
| 29) Chloroform | 2.855 | 83 | 3694 | 0.102 | ppbv | | 97 |
| 34) 2-Butanone | 2.564 | 43 | 28789 | 0.997 | ppbv | | 97 |
| 39) 1,2-Dichloropropane | 3.968 | 63 | 104076 | 7.240 | ppbv | # | 21 |
| 74) 1,2,4-Trimethylbenzene | 11.545 | 105 | 2245 | 0.039 | ppbv | # | 66 |

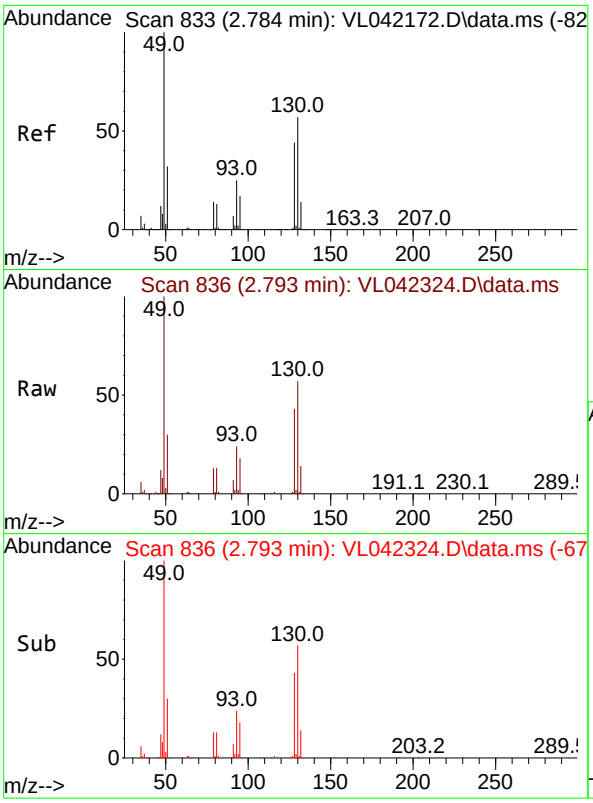
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042324.D
Acq On : 11 Apr 2025 17:10
Operator : SY/MD
Sample : Q1665-11DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025DL

Quant Time: Apr 11 23:03:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration



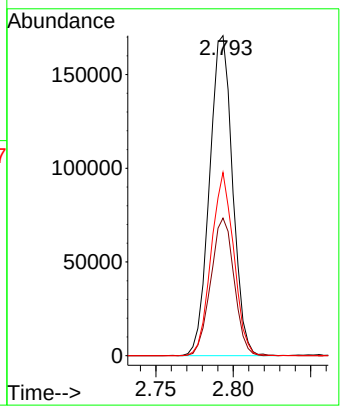


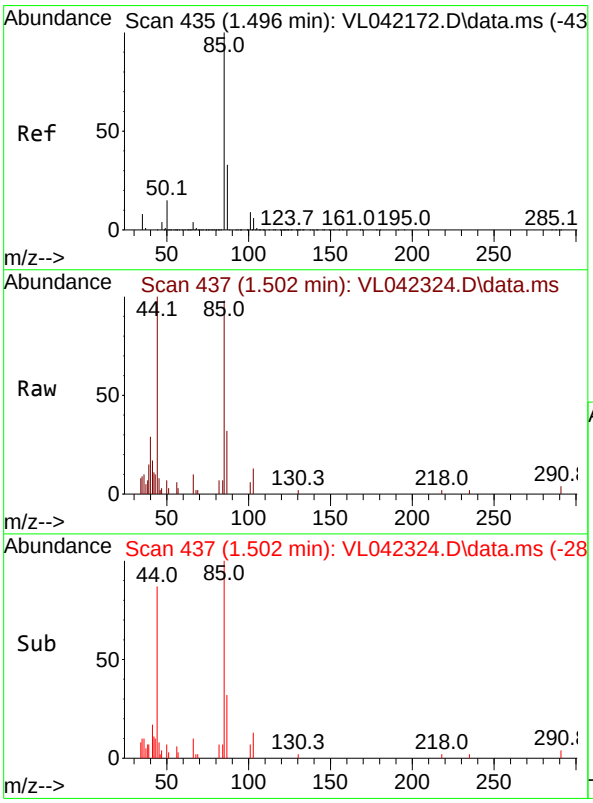

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 8
Delta R.T. 0.009 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025DL

Tgt Ion: 49 Resp: 176603

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 43.4 | 22.9 | 68.5 |
| 130 | 56.0 | 28.8 | 86.4 |

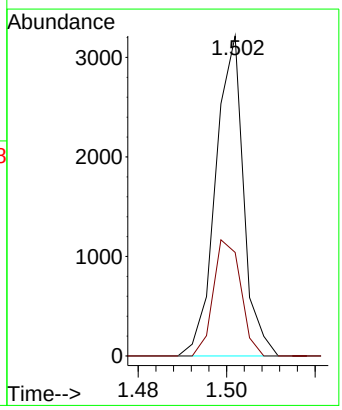


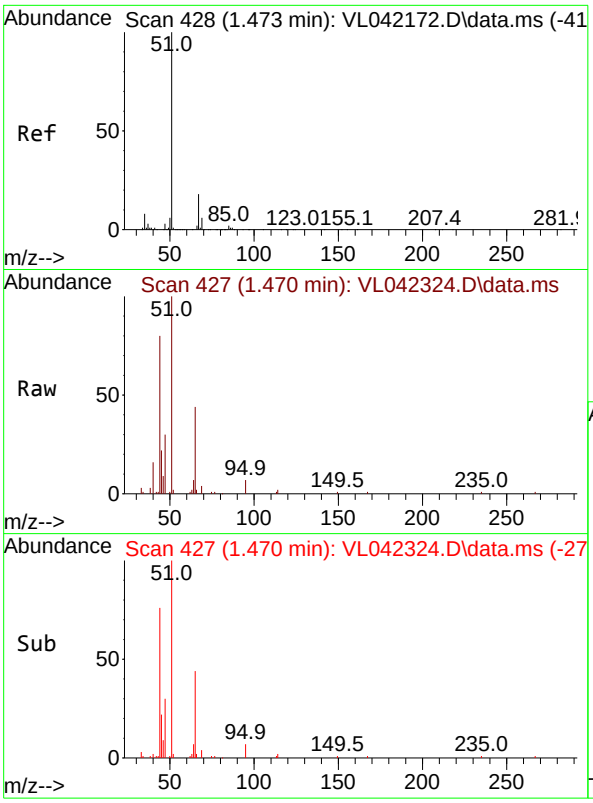




#2
Dichlorodifluoromethane
Concen: 0.054 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.006 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

Tgt Ion: 85 Resp: 1409

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.4 | 26.1 | 39.1 |



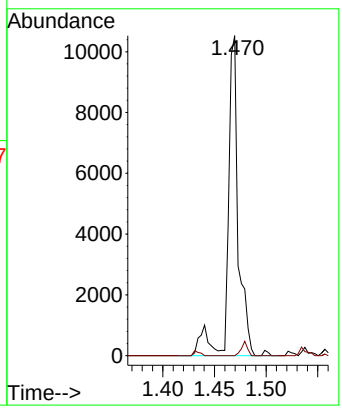


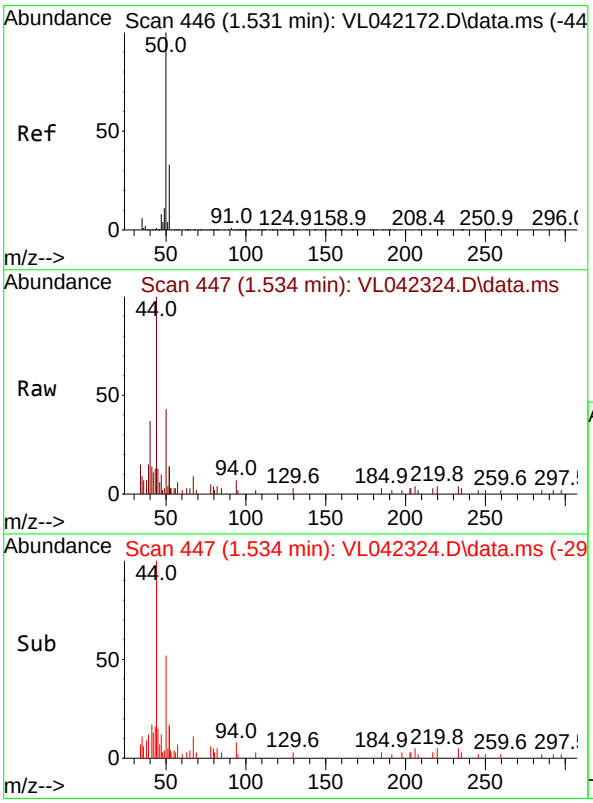

#3
Chlorodifluoromethane
Concen: 0.273 ppbv
RT: 1.470 min Scan# 4
Delta R.T. -0.004 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025DL

Tgt Ion: 51 Resp: 7277

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 2.6 | 15.0 | 22.6# |

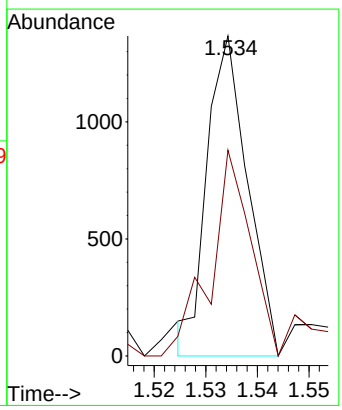


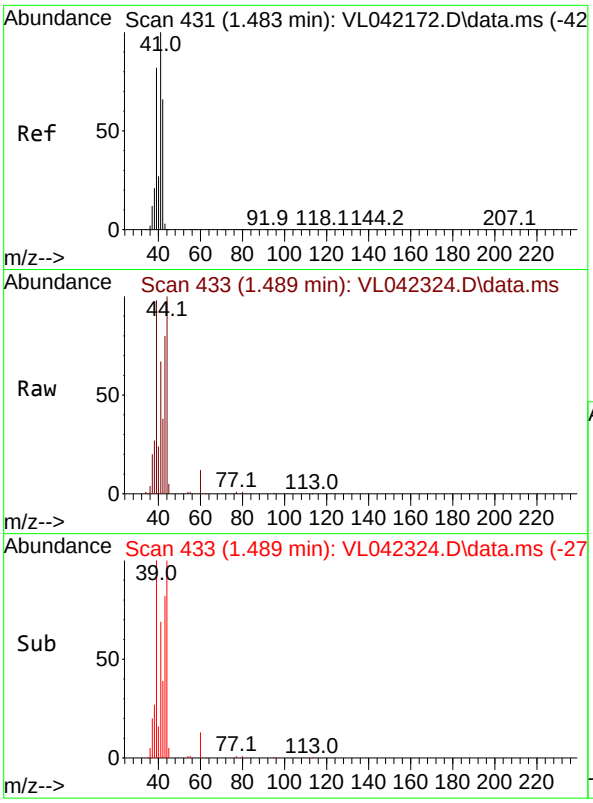




#4
Chloromethane
Concen: 0.070 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

Tgt Ion: 50 Resp: 743

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 72.4 | 26.1 | 39.1# |



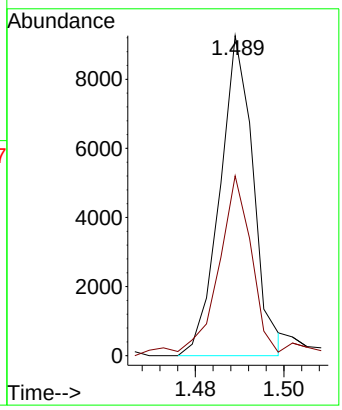


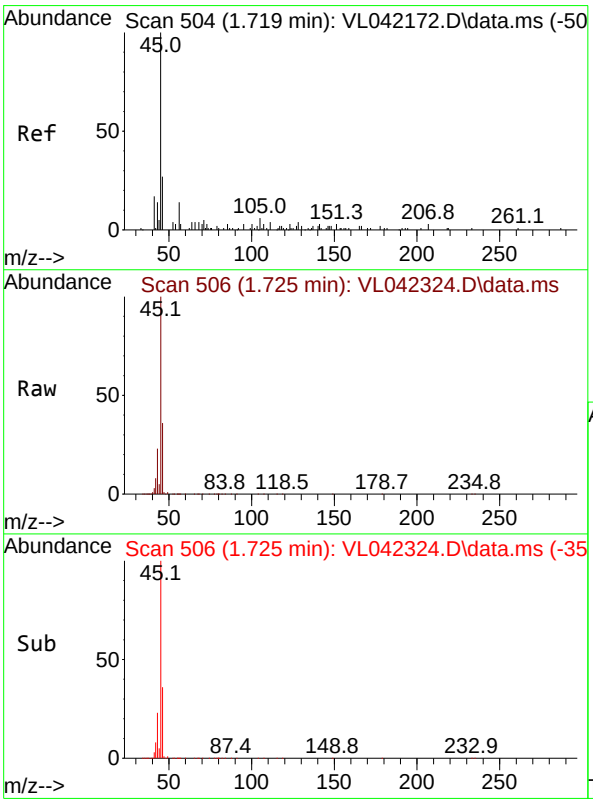

#9
Propene
Concen: 0.398 ppbv
RT: 1.489 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025DL

Tgt Ion: 41 Resp: 4857

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 59.0 | 55.4 | 83.2 |

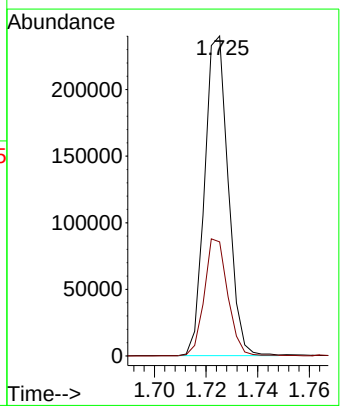


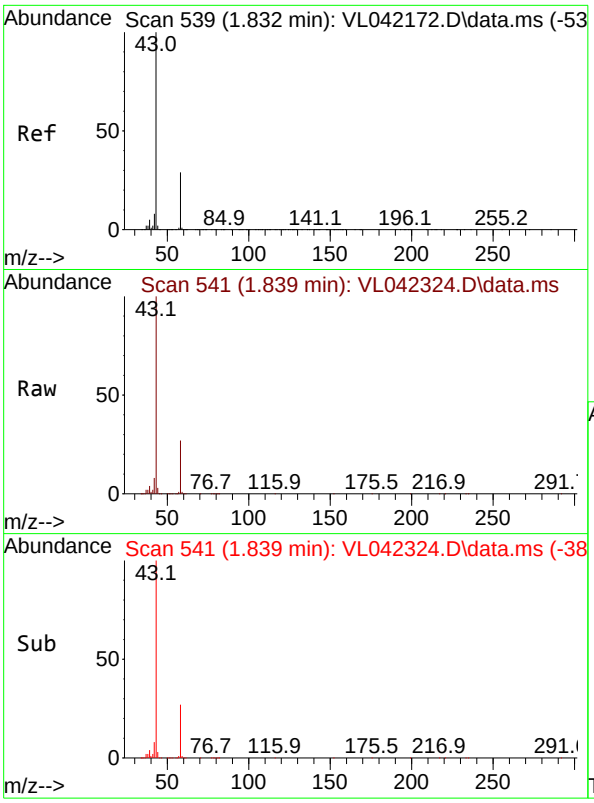




#13
Ethanol
Concen: 131.481 ppbv
RT: 1.725 min Scan# 506
Delta R.T. 0.006 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

Tgt Ion: 45 Resp: 151755

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 37.0 | 20.2 | 80.8 |



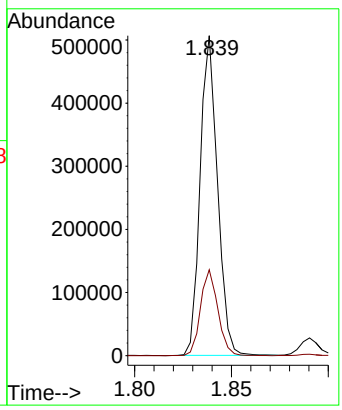


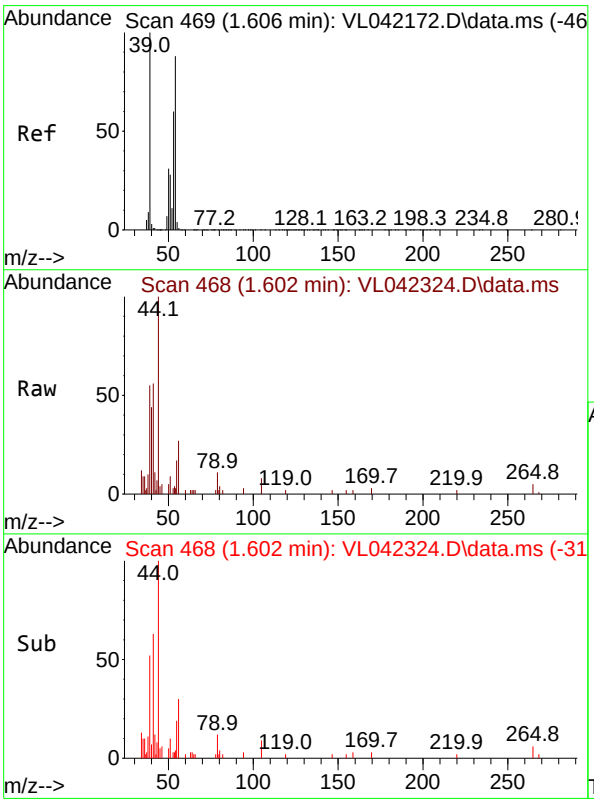

#15
Acetone
Concen: 12.798 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.006 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025DL

Tgt Ion: 43 Resp: 316091

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 26.9 | 23.2 | 34.8 |

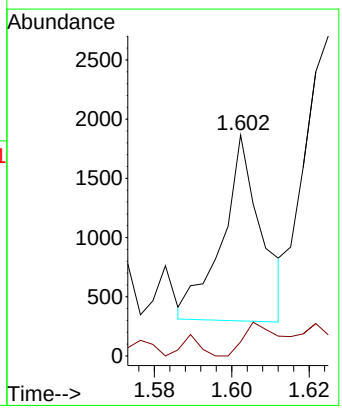


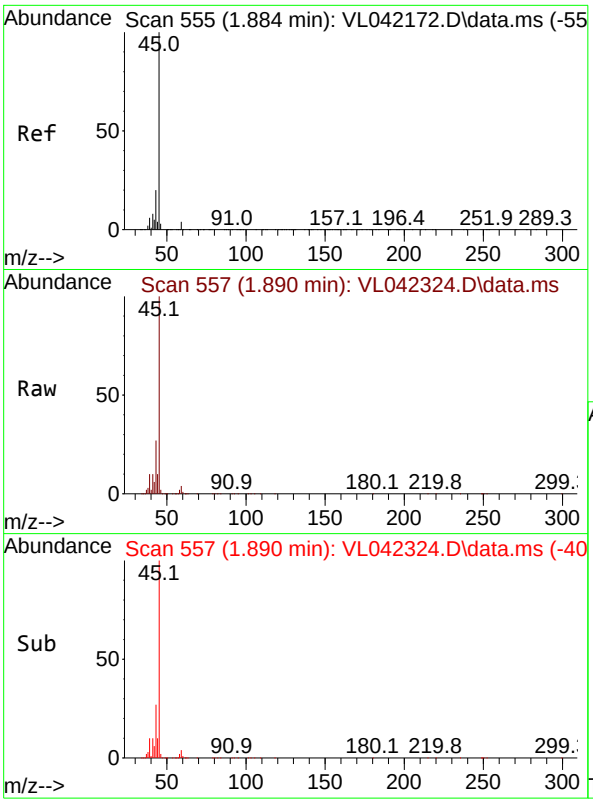




#16
1,3-Butadiene
Concen: 0.090 ppbv
RT: 1.602 min Scan# 468
Delta R.T. -0.004 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

Tgt Ion: 39 Resp: 1089

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 40.1 | 60.7 | 91.1# |



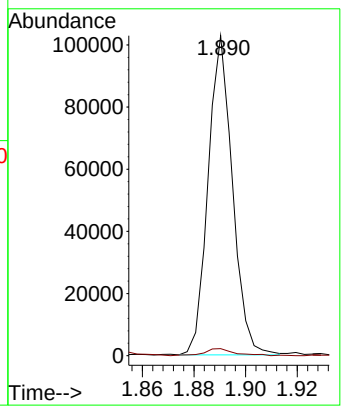


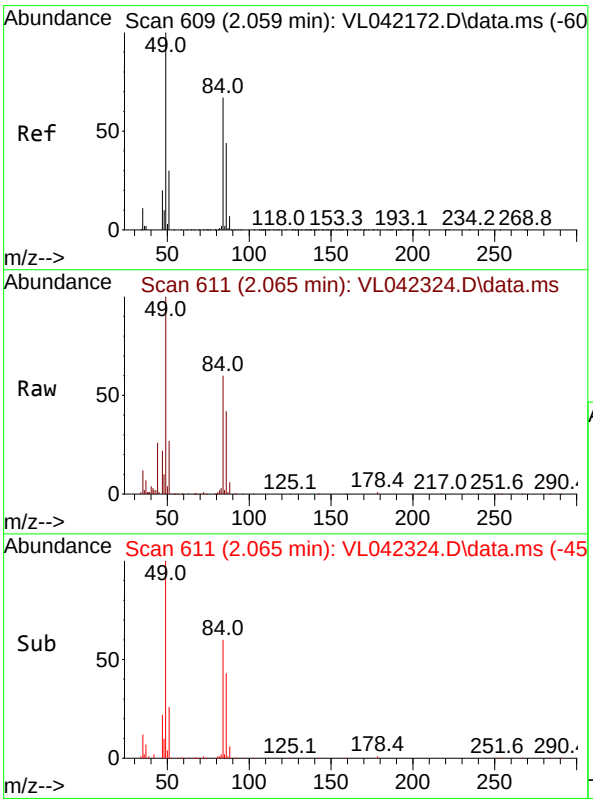

#19
Isopropyl Alcohol
Concen: 4.826 ppbv
RT: 1.890 min Scan# 5
Delta R.T. 0.006 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025DL

Tgt Ion: 45 Resp: 67257

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 126.4 | 36.9 | 55.3# |

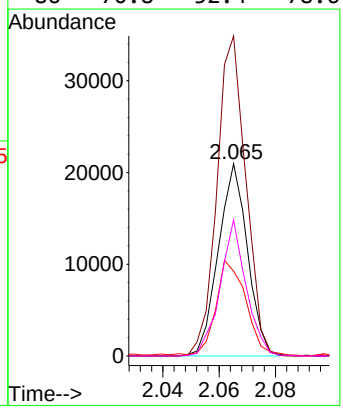


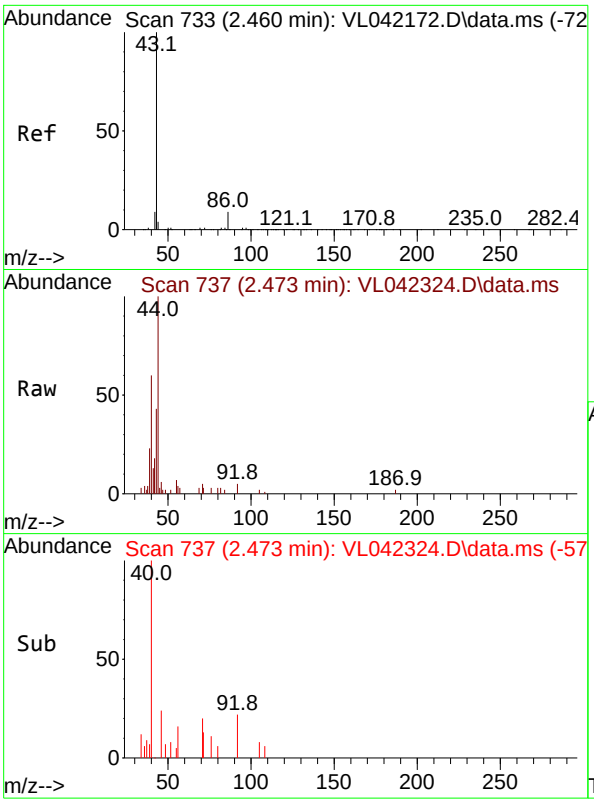




#20
Methylene Chloride
Concen: 1.635 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

Tgt Ion: 84 Resp: 15039

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 166.5 | 120.2 | 180.4 |
| 51 | 42.7 | 37.4 | 56.0 |
| 86 | 70.8 | 52.4 | 78.6 |



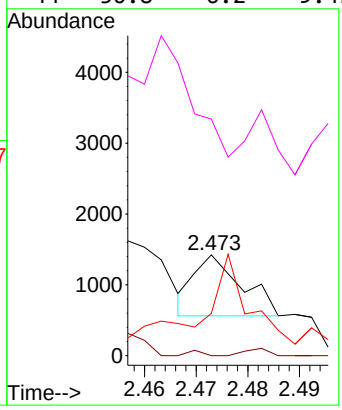


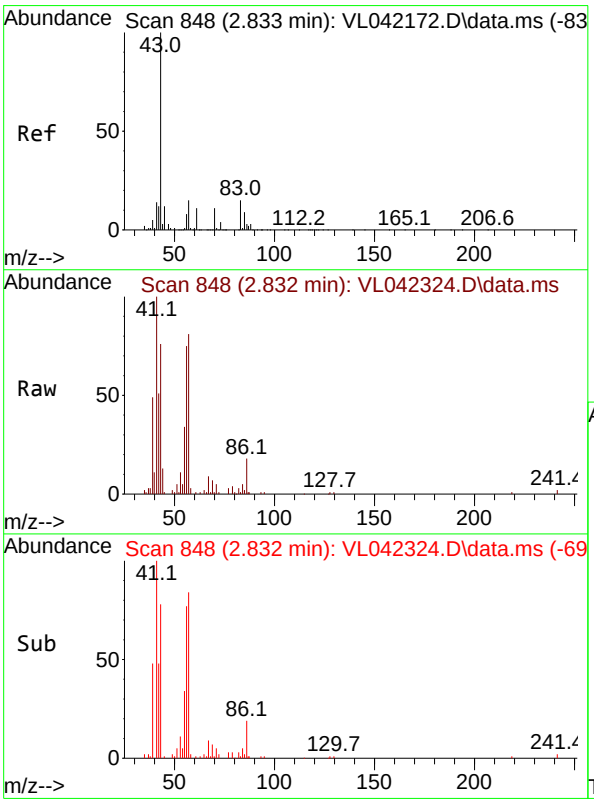

#23
Vinyl Acetate
Concen: 0.052 ppbv
RT: 2.473 min Scan# 7
Delta R.T. 0.013 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025DL

Tgt Ion: 43 Resp: 551

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 0.0 | 5.5 | 8.3# |
| 42 | 27.6 | 8.6 | 13.0# |
| 44 | 50.8 | 6.2 | 9.4# |

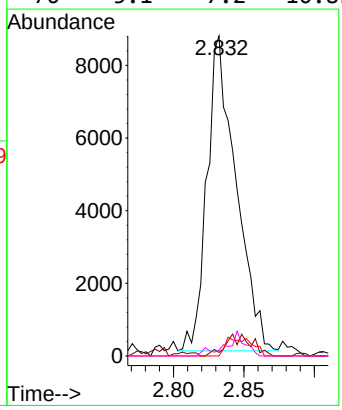


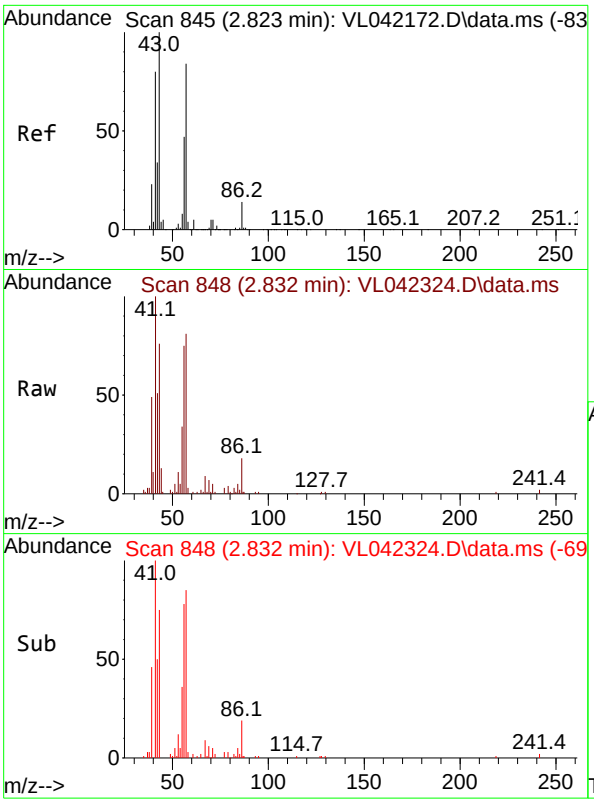




#25
Ethyl Acetate
Concen: 0.194 ppbv
RT: 2.832 min Scan# 848
Delta R.T. -0.000 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

Tgt Ion: 43 Resp: 12443

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 6.9 | 8.2 | 12.2# |
| 61 | 5.2 | 7.3 | 10.9# |
| 70 | 5.1 | 7.2 | 10.8# |



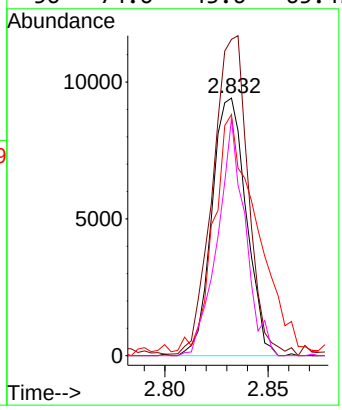


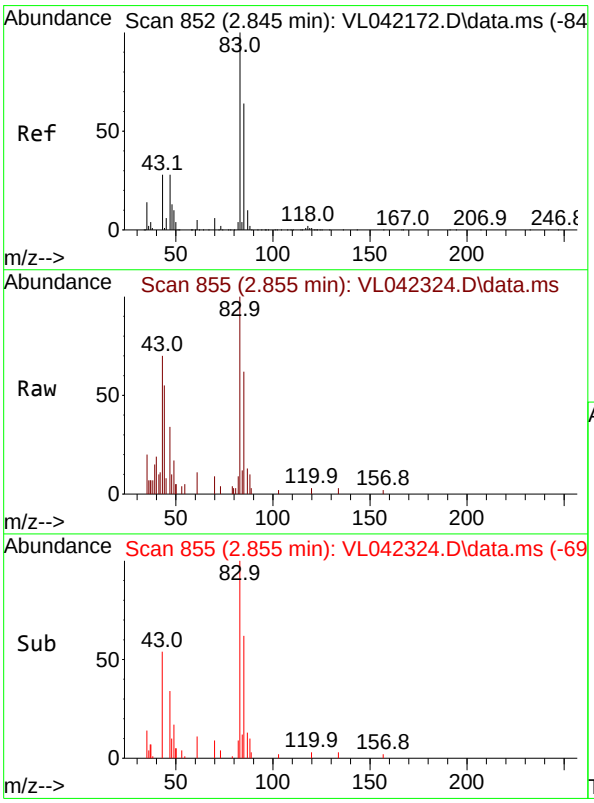

#26
Hexane
Concen: 0.439 ppbv
RT: 2.832 min Scan# 84
Delta R.T. 0.009 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025DL

Tgt Ion: 57 Resp: 10875

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 127.0 | 76.6 | 114.8# |
| 43 | 125.5 | 207.8 | 311.8# |
| 56 | 74.6 | 43.6 | 65.4# |

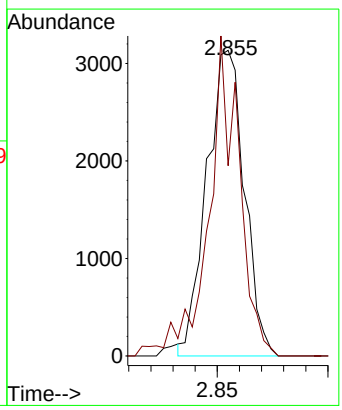


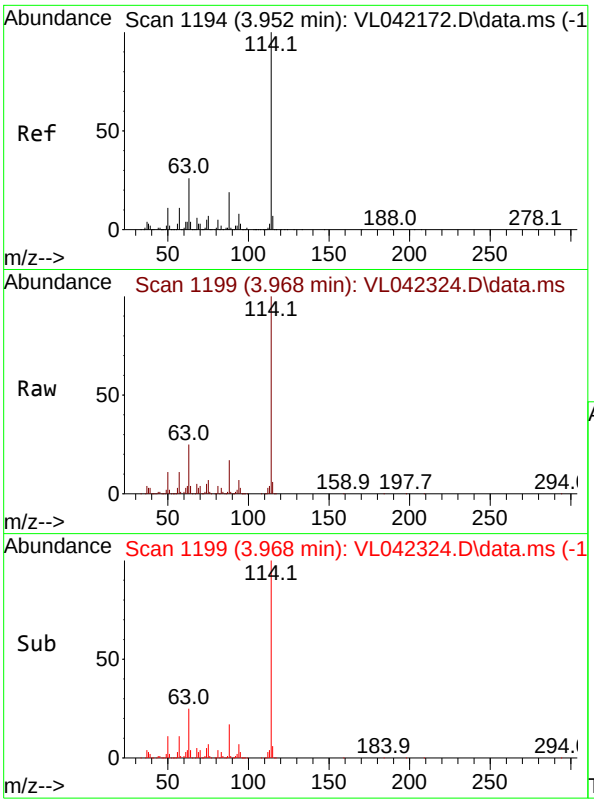




#29
Chloroform
Concen: 0.102 ppbv
RT: 2.855 min Scan# 855
Delta R.T. 0.009 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

Tgt Ion: 83 Resp: 3694

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.2 | 51.4 | 77.2 |



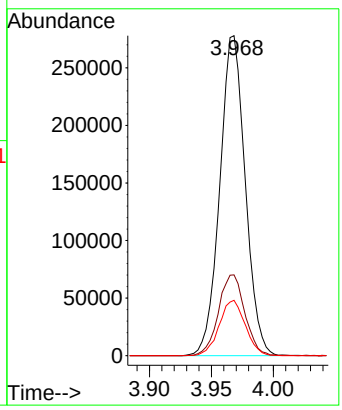


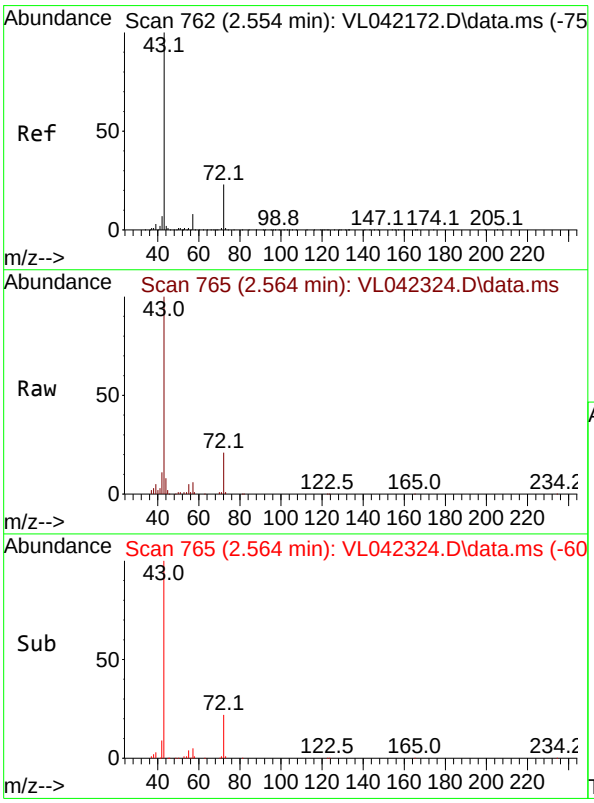

#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.968 min Scan# 11
Delta R.T. 0.016 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025DL

Tgt Ion:114 Resp: 398133

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 26.2 | 20.7 | 31.1 |
| 88 | 17.7 | 15.0 | 22.4 |

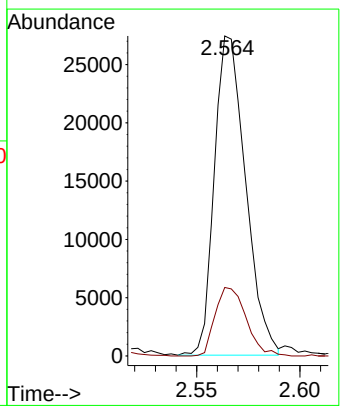


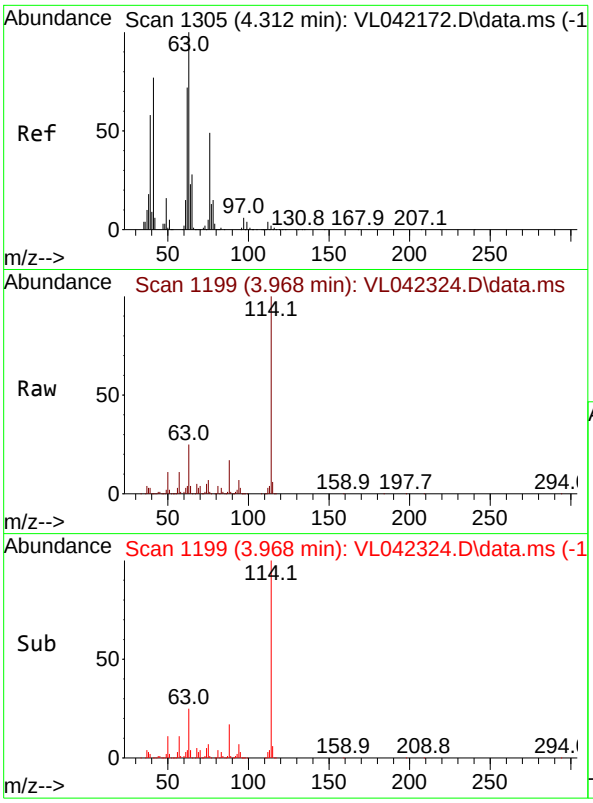




#34
2-Butanone
Concen: 0.997 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.009 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

Tgt Ion: 43 Resp: 28789

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 21.4 | 18.2 | 27.2 |



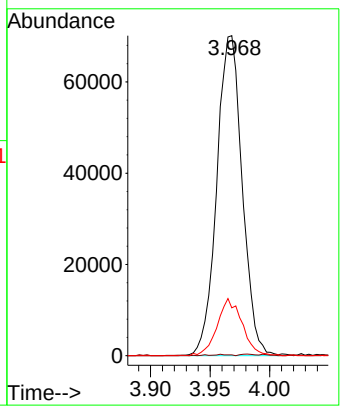


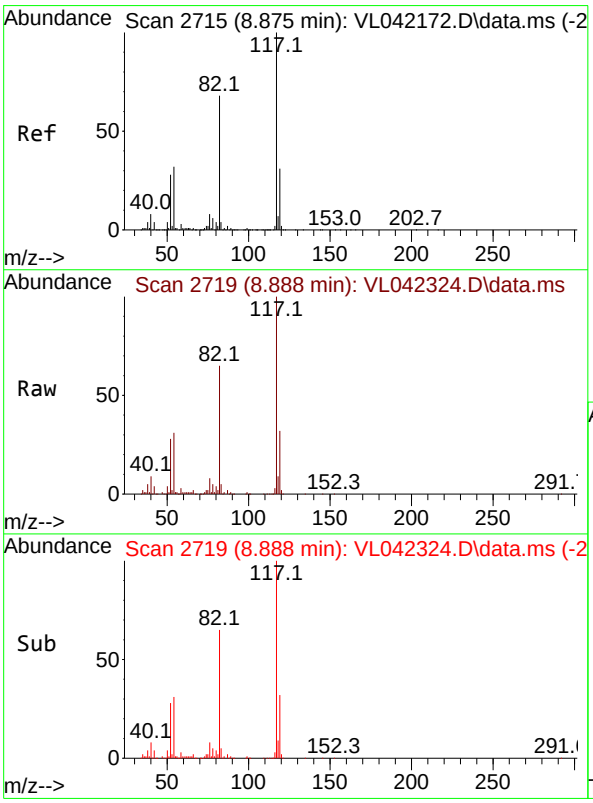

#39
1,2-Dichloropropane
Concen: 7.240 ppbv
RT: 3.968 min Scan# 11
Delta R.T. -0.343 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025DL

Tgt Ion: 63 Resp: 104076

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 0.5 | 61.7 | 92.5# |
| 62 | 15.0 | 57.6 | 86.4# |

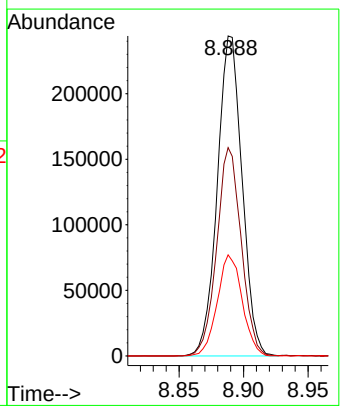


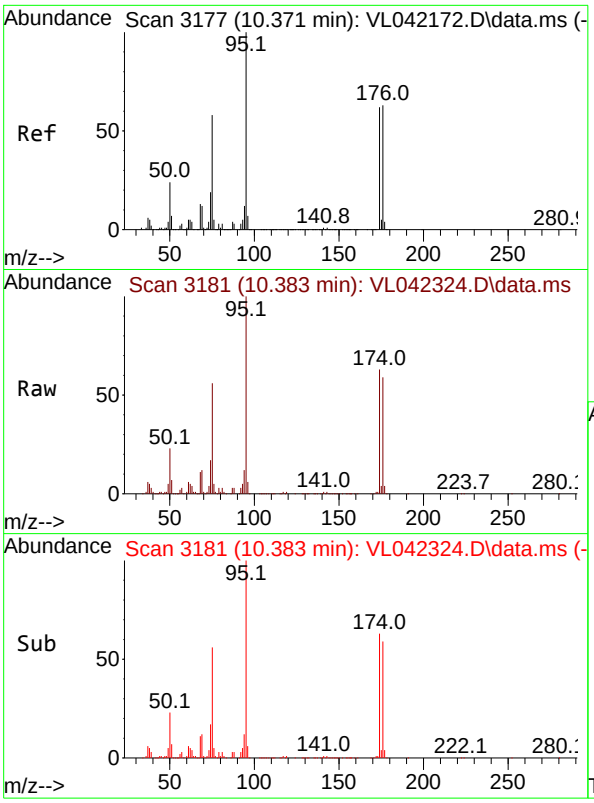




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.013 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

Tgt Ion:117 Resp: 325777

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 64.5 | 55.8 | 83.6 |
| 119 | 31.8 | 25.5 | 38.3 |



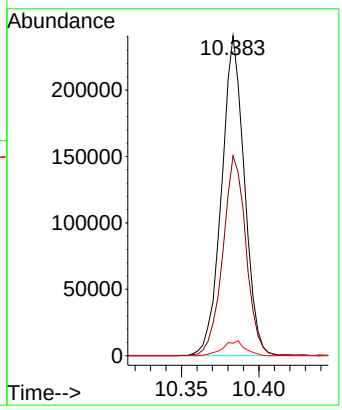


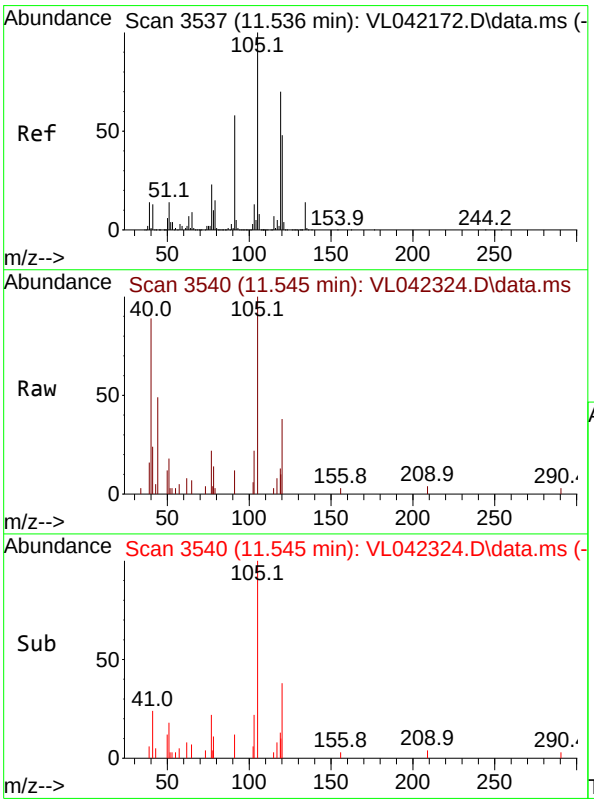

#68
1-Bromo-4-Fluorobenzene
Concen: 9.217 ppbv
RT: 10.383 min Scan# 3
Delta R.T. 0.013 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-1-3242025DL

Tgt Ion: 95 Resp: 246592

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 63.8 | 50.6 | 76.0 |
| 175 | 4.5 | 3.8 | 5.6 |

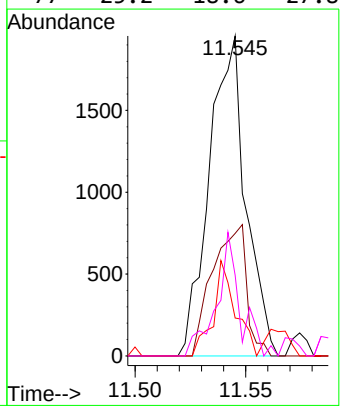



#74
1,2,4-Trimethylbenzene
Concen: 0.039 ppbv
RT: 11.545 min Scan# 3540
Delta R.T. 0.009 min
Lab File: VL042324.D
Acq: 11 Apr 2025 17:10

Tgt Ion:105 Resp: 2245

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 38.3 | 38.6 | 58.0# |
| 91 | 11.8 | 46.2 | 69.2# |
| 77 | 25.2 | 18.6 | 27.8 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
Data File : VL042326.D
Acq On : 15 Apr 2025 11:30
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Quant Time: Apr 16 01:29:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.806 | 49 | 172263 | 10.000 | ppbv | 0.02 |
| 33) 1,4-Difluorobenzene | 3.988 | 114 | 457227 | 10.000 | ppbv | 0.04 |
| 55) Chlorobenzene-d5 | 8.911 | 117 | 411493 | 10.000 | ppbv | 0.04 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.403 | 95 | 325960 | 9.646 | ppbv | 0.03 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 96.500% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.505 | 85 | 214541 | 8.435 | ppbv | 99 |
| 3) Chlorodifluoromethane | 1.483 | 51 | 235250 | 9.054 | ppbv | 98 |
| 4) Chloromethane | 1.541 | 50 | 89653 | 8.625 | ppbv | 98 |
| 5) Vinyl Chloride | 1.589 | 62 | 83204 | 7.554 | ppbv | 96 |
| 6) Bromomethane | 1.677 | 94 | 36297 | 7.705 | ppbv | 99 |
| 7) Chloroethane | 1.716 | 64 | 32145 | 7.704 | ppbv | 97 |
| 8) Dichlorotetrafluoroethane | 1.564 | 85 | 182884 | 8.443 | ppbv | 94 |
| 9) Propene | 1.492 | 41 | 101034 | 8.483 | ppbv | 98 |
| 10) Heptane | 5.020 | 43 | 276748 | 8.736 | ppbv | 98 |
| 11) Trichlorofluoromethane | 1.887 | 101 | 202387 | 8.178 | ppbv | 99 |
| 12) 1,1,2-Trichlorotrifluo... | 2.153 | 101 | 157030 | 7.719 | ppbv | 98 |
| 13) Ethanol | 1.732 | 45 | 4440 | 3.944 | ppbv | 93 |
| 14) Bromoethene | 1.793 | 108 | 59588 | 7.646 | ppbv | 99 |
| 15) Acetone | 1.845 | 43 | 183439 | 7.614 | ppbv | 96 |
| 16) 1,3-Butadiene | 1.619 | 39 | 90954 | 7.731 | ppbv | 100 |
| 17) tert-Butyl alcohol | 2.052 | 59 | 209737 | 6.990 | ppbv | 100 |
| 18) 1,1-Dichloroethene | 2.046 | 96 | 72322 | 7.605 | ppbv | 96 |
| 19) Isopropyl Alcohol | 1.897 | 45 | 104424 | 7.682 | ppbv | 98 |
| 20) Methylene Chloride | 2.075 | 84 | 60337 | 6.725 | ppbv | 90 |
| 21) Allyl Chloride | 2.111 | 41 | 132956 | 7.825 | ppbv | 98 |
| 22) trans-1,2-Dichloroethene | 2.357 | 96 | 81572 | 7.422 | ppbv | 96 |
| 23) Vinyl Acetate | 2.480 | 43 | 72160 | 6.920 | ppbv | 97 |
| 24) 1,1-Dichloroethane | 2.425 | 63 | 169411 | 8.315 | ppbv | 100 |
| 25) Ethyl Acetate | 2.855 | 43 | 564611 | 9.030 | ppbv | 99 |
| 26) Hexane | 2.845 | 57 | 213782 | 8.851 | ppbv | 98 |
| 27) Carbon Disulfide | 2.166 | 76 | 195452 | 7.547 | ppbv | 97 |
| 28) Methyl tert-Butyl Ether | 2.457 | 73 | 116301 | 7.734 | ppbv | 96 |
| 29) Chloroform | 2.868 | 83 | 314164 | 8.888 | ppbv | 100 |
| 30) Cyclohexane | 3.884 | 84 | 173360 | 8.266 | ppbv | 98 |
| 31) cis-1,2-Dichloroethene | 2.739 | 61 | 208160 | 8.490 | ppbv | 96 |
| 32) 1,1,1-Trichloroethane | 3.392 | 97 | 311758 | 7.704 | ppbv | 98 |
| 34) 2-Butanone | 2.577 | 43 | 317117 | 9.565 | ppbv | 97 |
| 35) Carbon Tetrachloride | 3.790 | 117 | 317942 | 8.902 | ppbv | 99 |
| 36) Benzene | 3.684 | 78 | 424254 | 9.360 | ppbv | 94 |
| 37) 1,2-Dichloroethane | 3.243 | 62 | 239556 | 9.231 | ppbv | 100 |
| 38) Trichloroethene | 4.583 | 130 | 172146 | 9.102 | ppbv | 96 |
| 39) 1,2-Dichloropropane | 4.350 | 63 | 151707 | 9.190 | ppbv | 96 |
| 40) 1,4-Dioxane | 4.622 | 88 | 72075 | 8.226 | ppbv # | 98 |
| 41) Tetrahydrofuran | 3.075 | 42 | 181471 | 9.505 | ppbv | 95 |
| 42) Bromodichloromethane | 4.525 | 83 | 333167 | 9.313 | ppbv | 97 |
| 43) Methyl Methacrylate | 4.923 | 69 | 155399 | 8.098 | ppbv | 96 |
| 44) 2,2,4-Trimethylpentane | 4.677 | 57 | 728571 | 9.511 | ppbv | 99 |
| 45) t-1,3-Dichloropropene | 6.461 | 75 | 151063 | 7.338 | ppbv | 96 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
Data File : VL042326.D
Acq On : 15 Apr 2025 11:30
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Quant Time: Apr 16 01:29:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.648 | 75 | 204339 | 8.097 | ppbv | | 98 |
| 47) 1,1,2-Trichloroethane | 6.626 | 97 | 163132 | 9.348 | ppbv | | 97 |
| 48) Dibromochloromethane | 7.425 | 129 | 272592 | 9.217 | ppbv | | 99 |
| 49) Bromoform | 9.513 | 173 | 238880 | 8.997 | ppbv | | 100 |
| 50) 4-Methyl-2-Pentanone | 5.800 | 43 | 442851 | 8.428 | ppbv | | 97 |
| 51) 2-Hexanone | 7.474 | 43 | 353471 | 8.192 | ppbv | # | 97 |
| 52) Tetrachloroethene | 8.260 | 164 | 144481 | 8.037 | ppbv | | 98 |
| 53) Toluene | 6.975 | 91 | 461854 | 8.595 | ppbv | | 100 |
| 54) 1,2-Dibromoethane | 7.687 | 107 | 220075 | 9.047 | ppbv | | 97 |
| 56) 1,1,1,2-Tetrachloroethane | 8.956 | 131 | 214175 | 9.455 | ppbv | | 99 |
| 57) Chlorobenzene | 8.953 | 112 | 375357 | 9.617 | ppbv | | 97 |
| 58) Ethyl Benzene | 9.383 | 91 | 639857 | 8.754 | ppbv | | 99 |
| 59) m/p-Xylene | 9.581 | 91 | 488646 | 8.372 | ppbv | # | 13 |
| 60) o-Xylene | 9.992 | 91 | 528896 | 9.040 | ppbv | | 95 |
| 61) Styrene | 9.898 | 104 | 245300 | 8.474 | ppbv | | 97 |
| 62) Isopropylbenzene | 10.565 | 105 | 794408 | 9.079 | ppbv | | 98 |
| 63) 1,1,2,2-Tetrachloroethane | 9.992 | 83 | 343786 | 9.671 | ppbv | | 100 |
| 64) n-propylbenzene | 11.015 | 120 | 212879 | 9.452 | ppbv | | 95 |
| 65) tert-Butylbenzene | 11.555 | 119 | 721078 | 8.911 | ppbv | | 97 |
| 66) Benzyl Chloride | 11.639 | 91 | 54427 | 6.339 | ppbv | | 98 |
| 67) sec-Butylbenzene | 11.791 | 105 | 1026079 | 9.123 | ppbv | | 99 |
| 69) p-Isopropyltoluene | 11.947 | 119 | 865385 | 8.935 | ppbv | | 99 |
| 70) n-Butylbenzene | 12.303 | 91 | 884265 | 8.928 | ppbv | | 99 |
| 71) 2-Chlorotoluene | 10.927 | 91 | 599592 | 8.830 | ppbv | | 98 |
| 72) 4-Ethyltoluene | 11.147 | 105 | 657765 | 9.029 | ppbv | | 99 |
| 73) 1,3,5-Trimethylbenzene | 11.228 | 105 | 557593 | 8.764 | ppbv | | 99 |
| 74) 1,2,4-Trimethylbenzene | 11.558 | 105 | 623563 | 8.507 | ppbv | # | 86 |
| 75) 1,3-Dichlorobenzene | 11.630 | 146 | 381572 | 9.492 | ppbv | | 98 |
| 76) 1,4-Dichlorobenzene | 11.694 | 146 | 380035 | 9.499 | ppbv | | 98 |
| 77) 1,2-Dichlorobenzene | 11.969 | 146 | 379896 | 9.706 | ppbv | | 97 |
| 78) Hexachloro-1,3-Butadiene | 13.902 | 225 | 311900 | 7.828 | ppbv | | 99 |
| 79) Naphthalene | 13.533 | 128 | 760876 | 9.490 | ppbv | | 99 |
| 80) Naphthalene,2-methyl- | 14.478 | 142 | 365398 | 9.294 | ppbv | | 98 |
| 81) 1,2,4-Trichlorobenzene | 13.461 | 180 | 337032 | 9.114 | ppbv | | 99 |

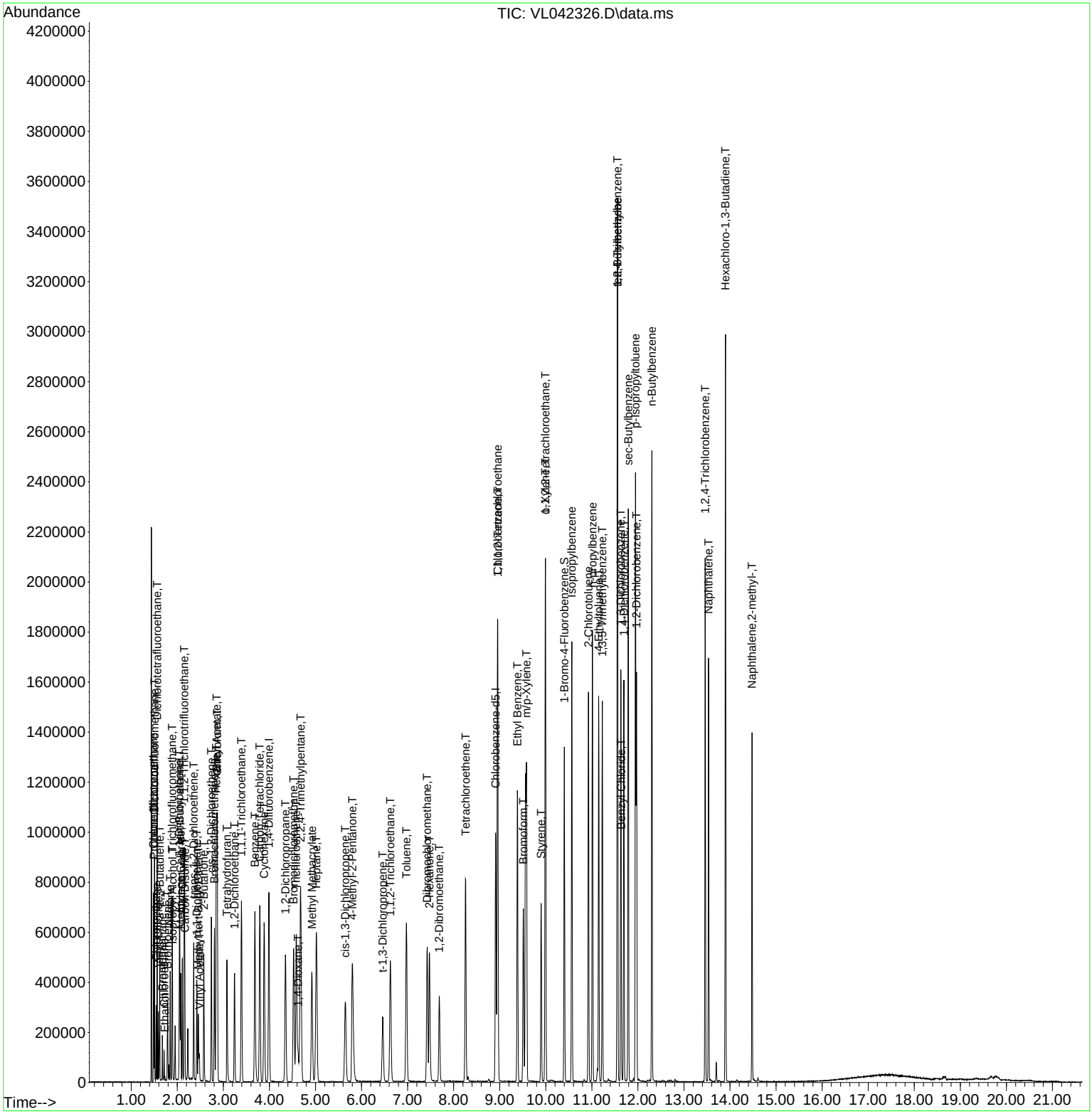
(#) = qualifier out of range (m) = manual integration (+) = signals summed

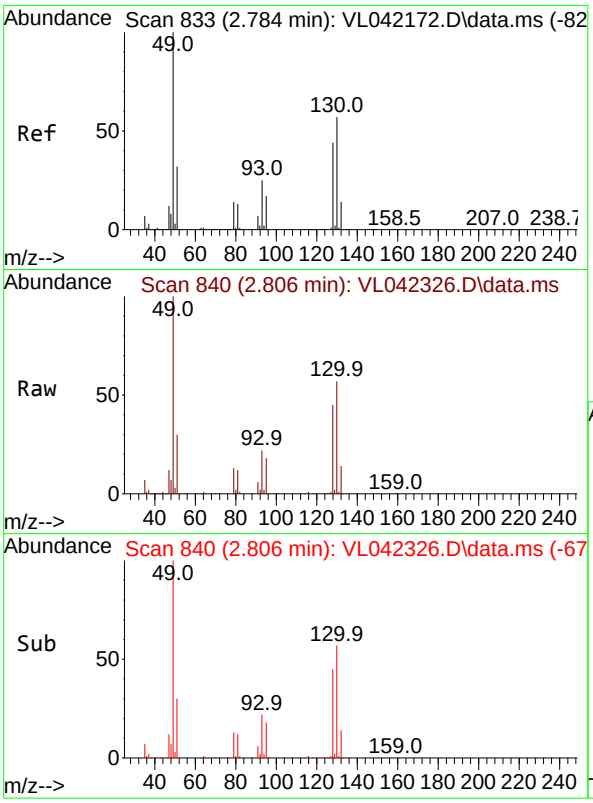
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
Data File : VL042326.D
Acq On : 15 Apr 2025 11:30
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Quant Time: Apr 16 01:29:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration



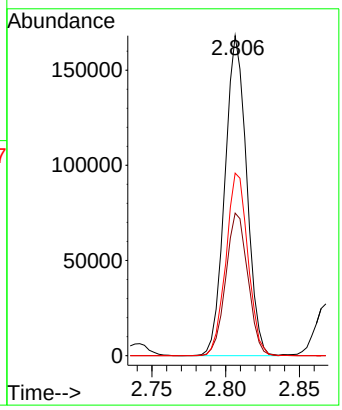


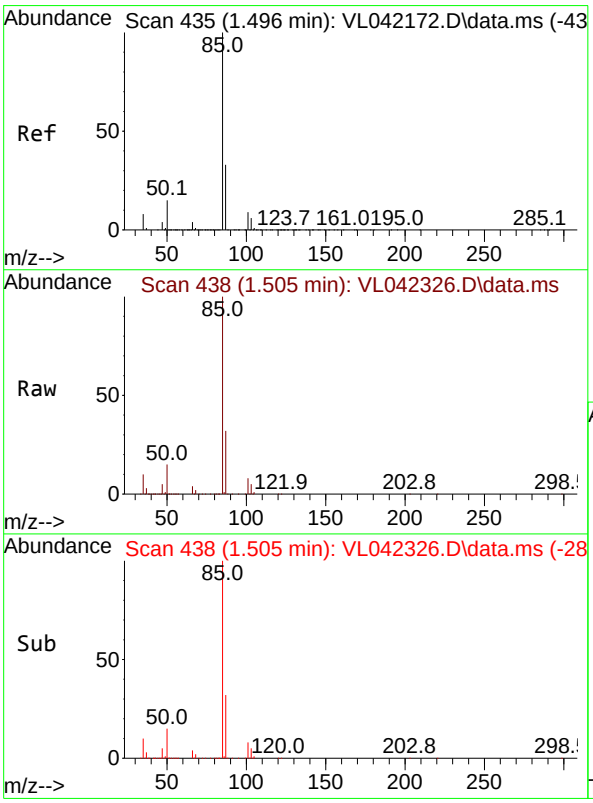

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.806 min Scan# 84
Delta R.T. 0.022 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 49 Resp: 172263

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 45.3 | 22.9 | 68.5 |
| 130 | 57.8 | 28.8 | 86.4 |

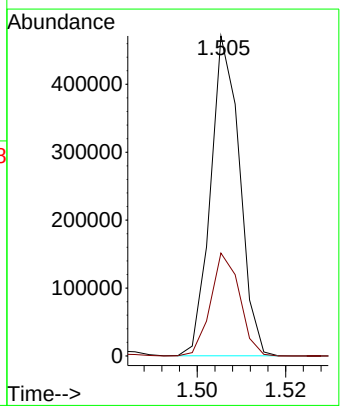


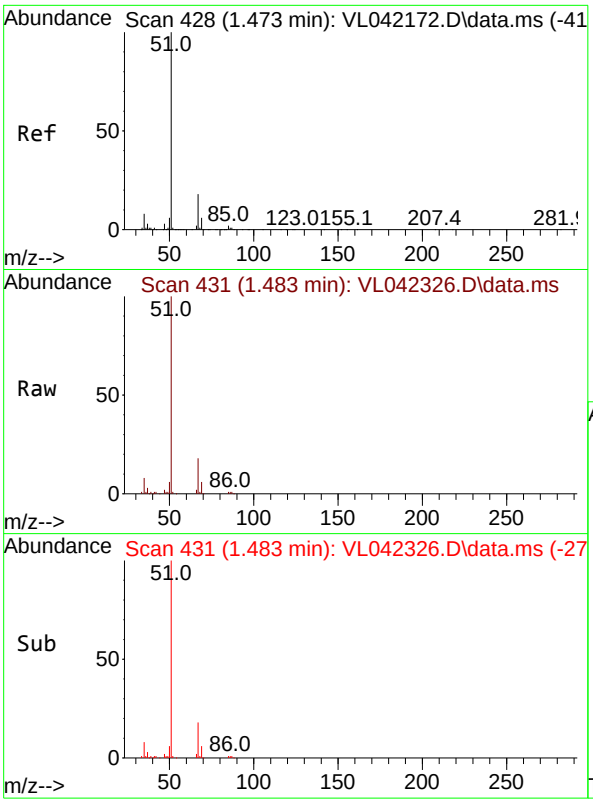




#2
Dichlorodifluoromethane
Concen: 8.435 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.010 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 85 Resp: 214541

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.1 | 26.1 | 39.1 |



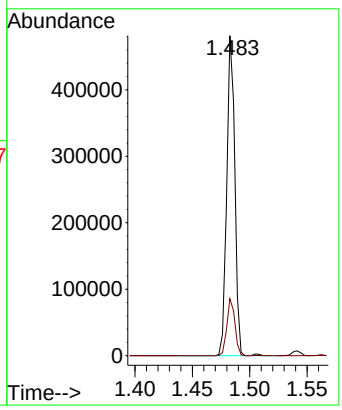


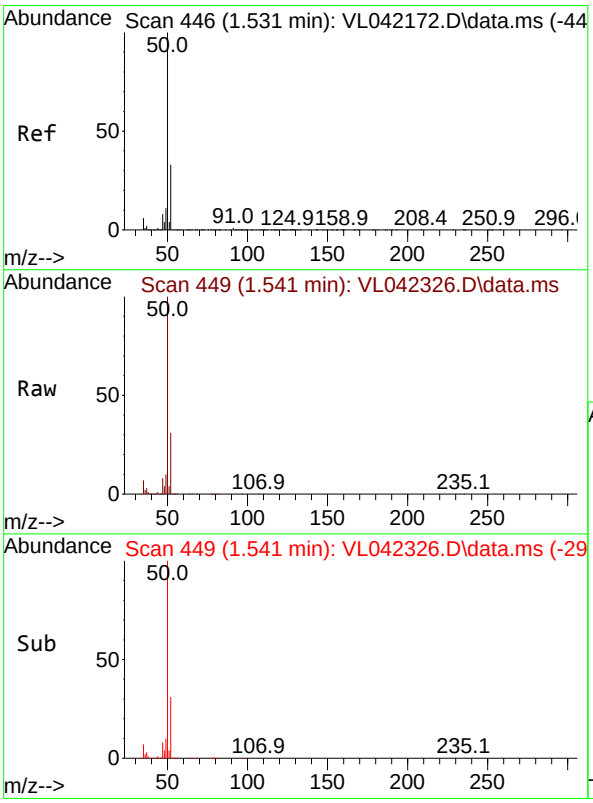

#3
Chlorodifluoromethane
Concen: 9.054 ppbv
RT: 1.483 min Scan# 4
Delta R.T. 0.010 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 51 Resp: 235250

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 17.7 | 15.0 | 22.6 |

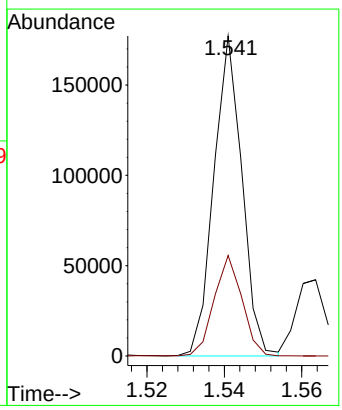


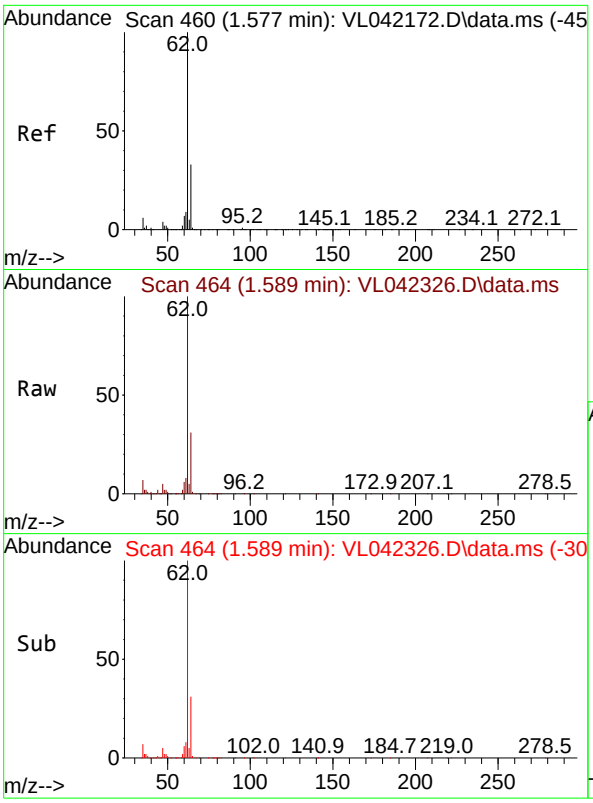




#4
Chloromethane
Concen: 8.625 ppbv
RT: 1.541 min Scan# 449
Delta R.T. 0.010 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 50 Resp: 89653

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 31.4 | 26.1 | 39.1 |



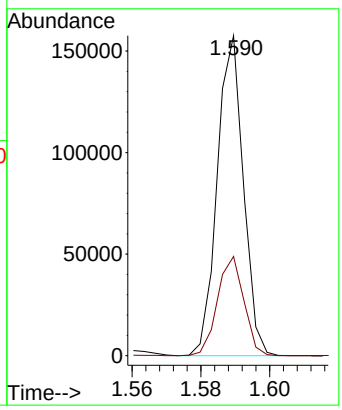


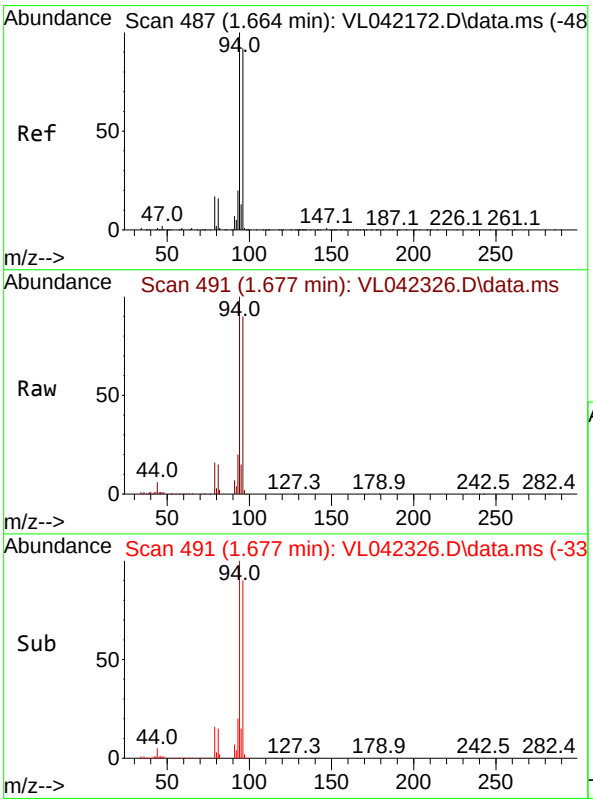

#5
Vinyl Chloride
Concen: 7.554 ppbv
RT: 1.589 min Scan# 4
Delta R.T. 0.013 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 62 Resp: 83204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.0 | 26.6 | 40.0 |

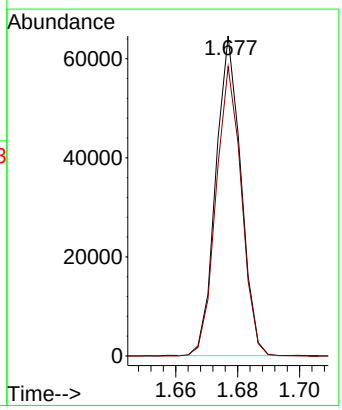


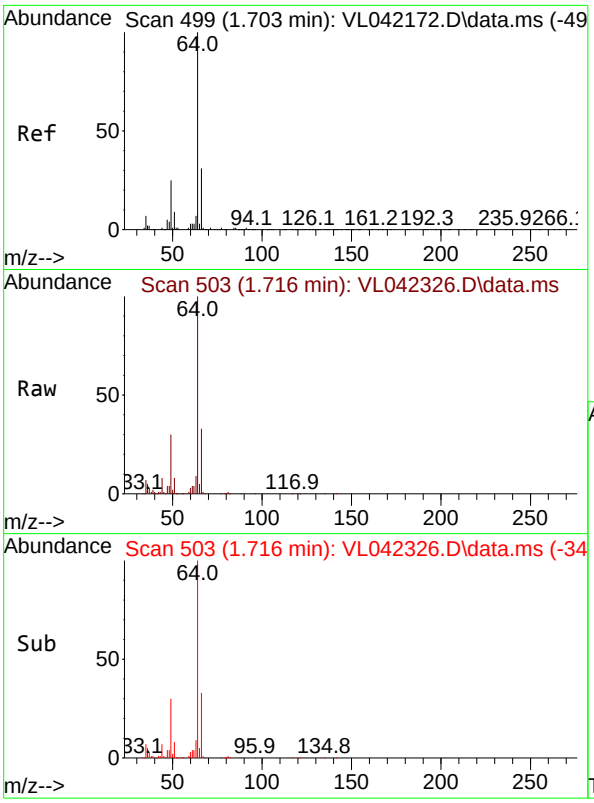




#6
Bromomethane
Concen: 7.705 ppbv
RT: 1.677 min Scan# 491
Delta R.T. 0.013 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 94 Resp: 36297

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 90.5 | 73.1 | 109.7 |



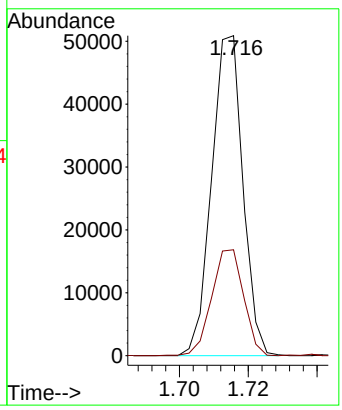


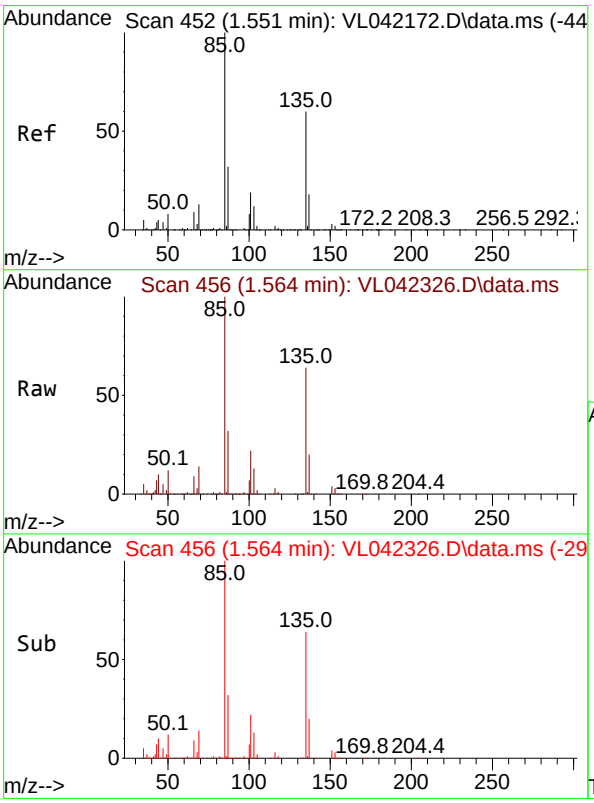

#7
Chloroethane
Concen: 7.704 ppbv
RT: 1.716 min Scan# 5
Delta R.T. 0.013 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 64 Resp: 32145

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 33.1 | 25.2 | 37.8 |

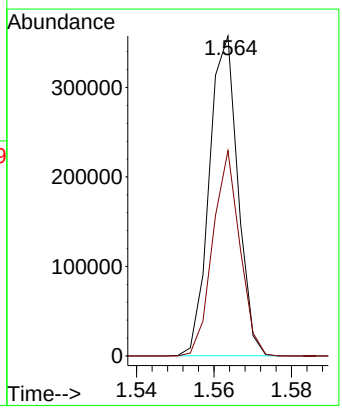


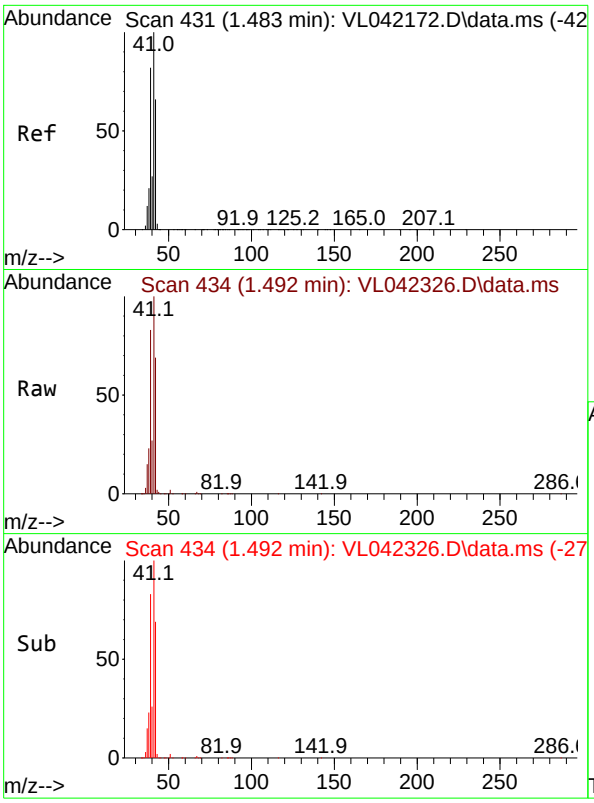




#8
Dichlorotetrafluoroethane
Concen: 8.443 ppbv
RT: 1.564 min Scan# 456
Delta R.T. 0.013 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 85 Resp: 182884

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 60.9 | 52.4 | 78.6 |



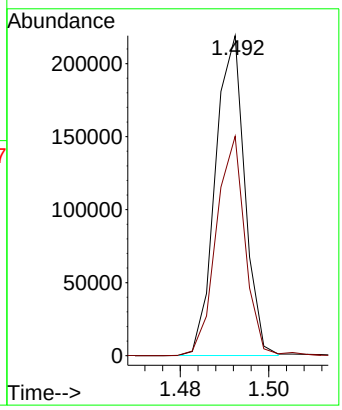


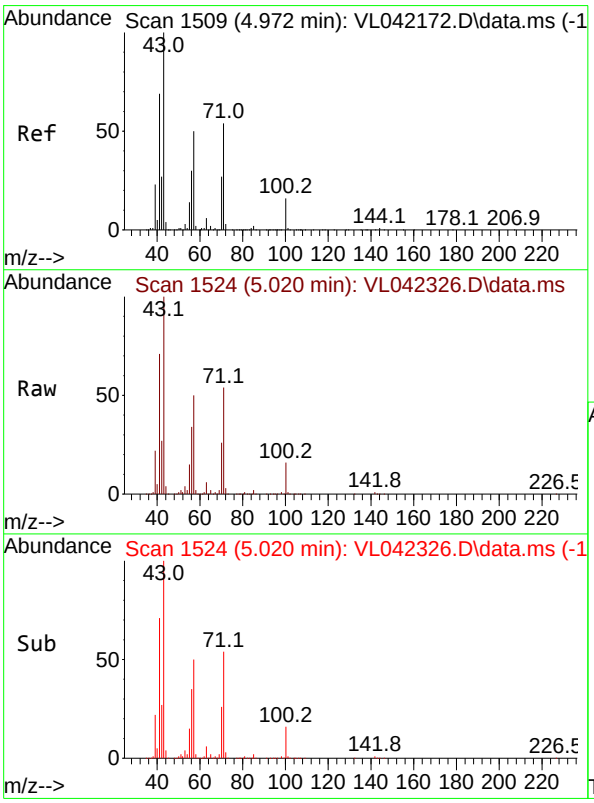

#9
Propene
Concen: 8.483 ppbv
RT: 1.492 min Scan# 4
Delta R.T. 0.010 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 41 Resp: 101034

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 67.9 | 55.4 | 83.2 |

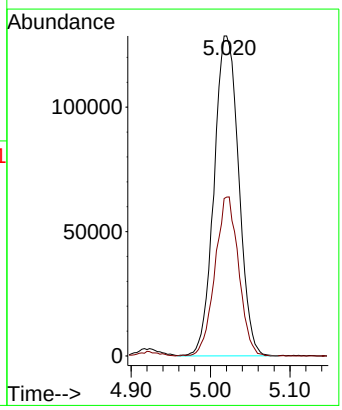


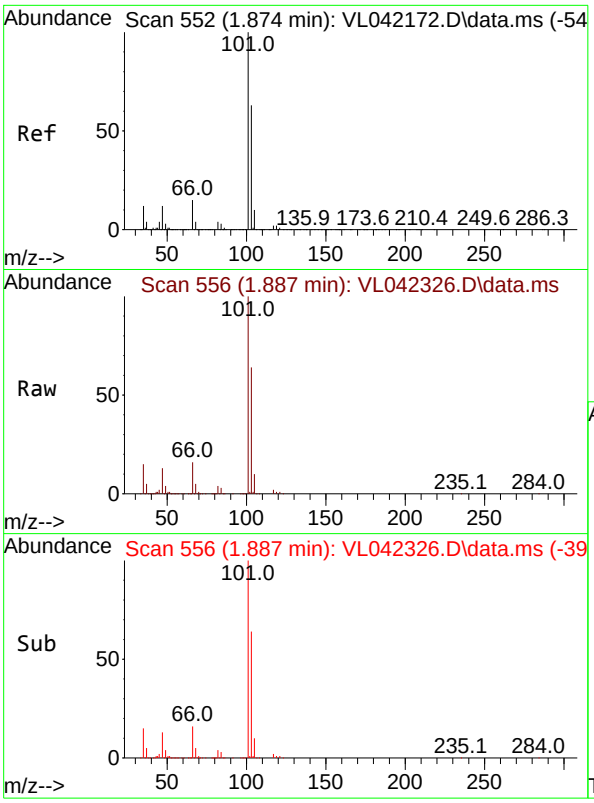




#10
Heptane
Concen: 8.736 ppbv
RT: 5.020 min Scan# 1524
Delta R.T. 0.048 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 43 Resp: 276748

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 47.8 | 39.4 | 59.2 |



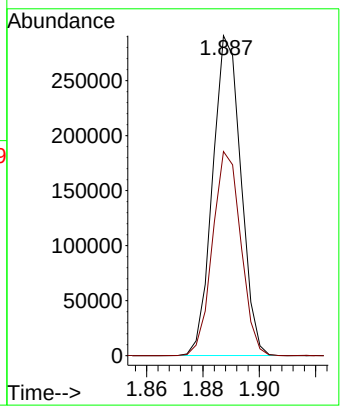


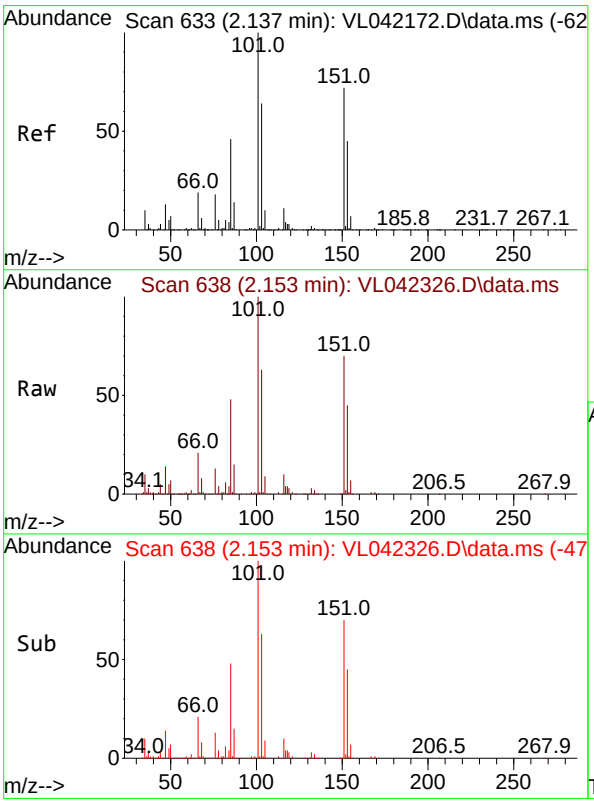

#11
Trichlorofluoromethane
Concen: 8.178 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.013 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:101 Resp: 202387

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.8 | 50.2 | 75.2 |

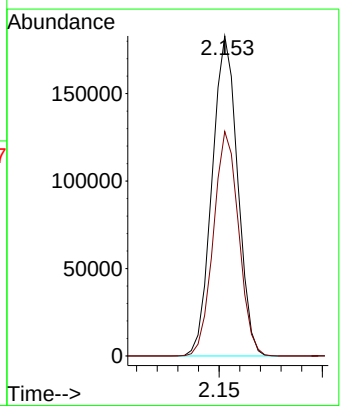


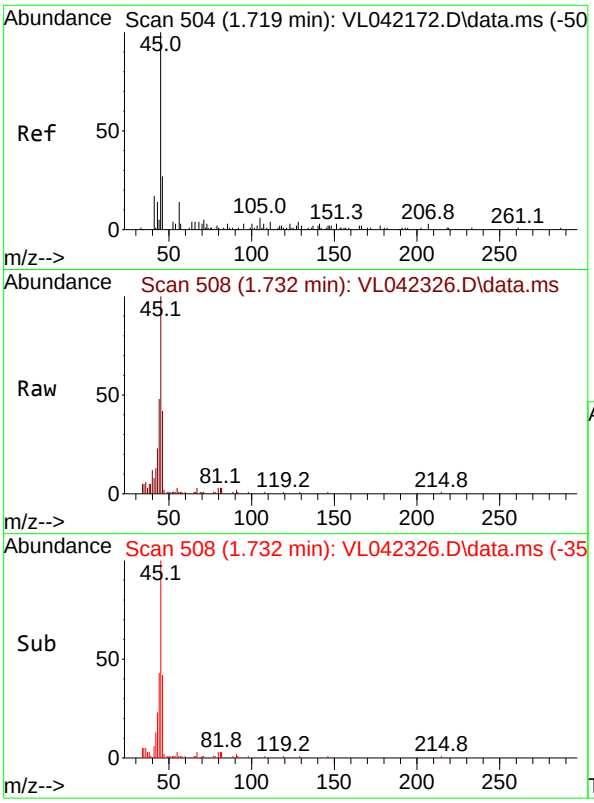




#12
1,1,2-Trichlorotrifluoroethane
Concen: 7.719 ppbv
RT: 2.153 min Scan# 638
Delta R.T. 0.016 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion:101 Resp: 157030

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 69.5 | 57.1 | 85.7 |



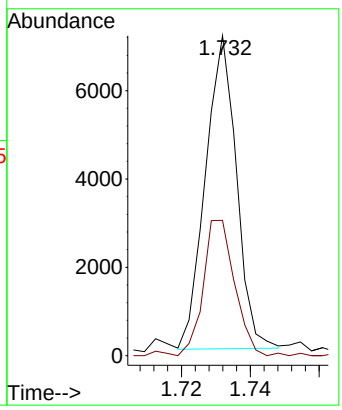


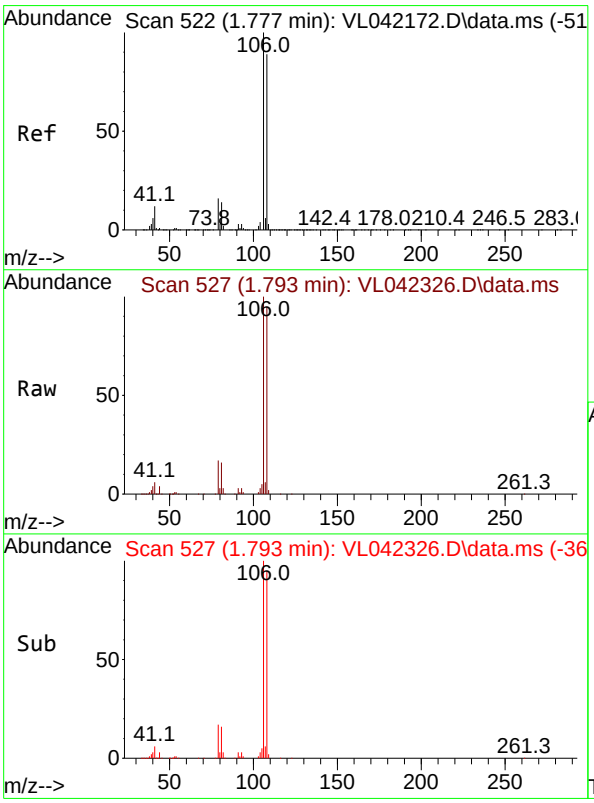

#13
Ethanol
Concen: 3.944 ppbv
RT: 1.732 min Scan# 5
Delta R.T. 0.013 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 45 Resp: 4440

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 45.7 | 20.2 | 80.8 |

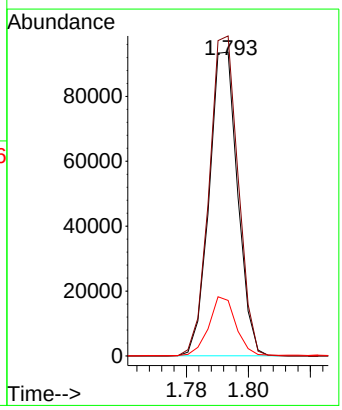


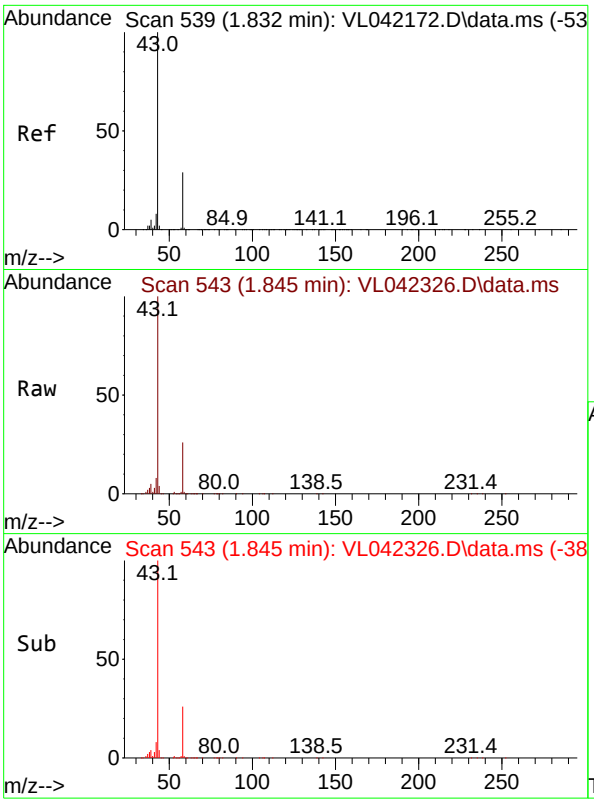




#14
Bromoethene
Concen: 7.646 ppbv
RT: 1.793 min Scan# 527
Delta R.T. 0.016 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion:108 Resp: 59588

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 106 | 107.3 | 86.8 | 130.2 |
| 79 | 19.2 | 15.0 | 22.6 |



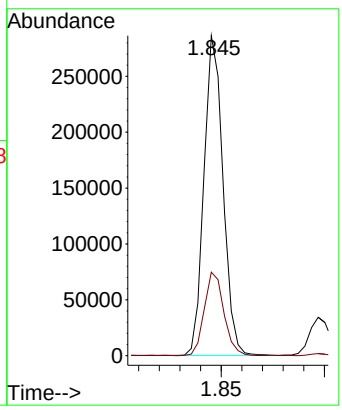


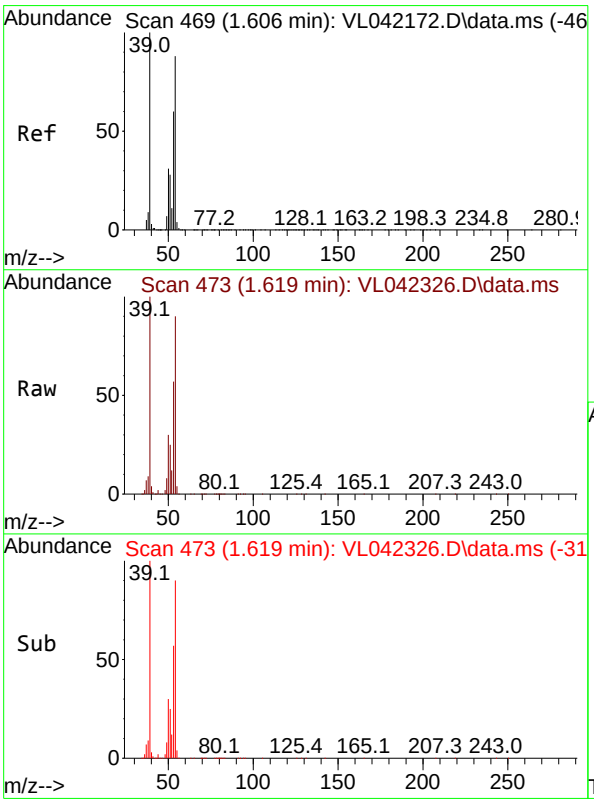

#15
Acetone
Concen: 7.614 ppbv
RT: 1.845 min Scan# 54
Delta R.T. 0.013 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 43 Resp: 183439

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 27.0 | 23.2 | 34.8 |

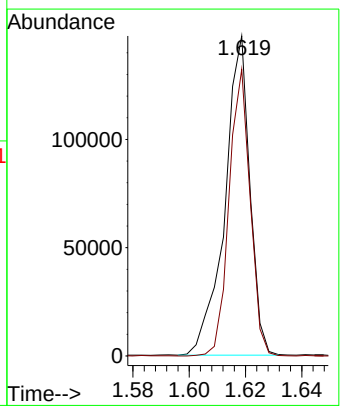


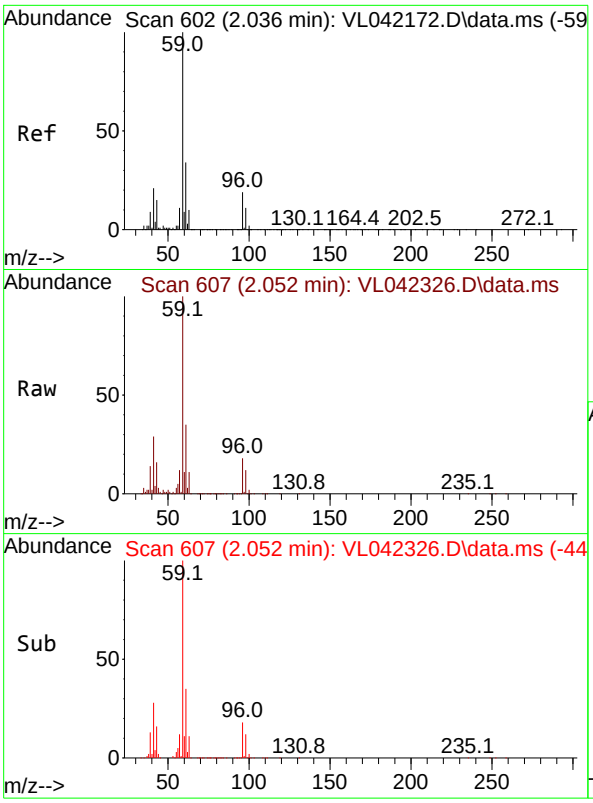




#16
1,3-Butadiene
Concen: 7.731 ppbv
RT: 1.619 min Scan# 473
Delta R.T. 0.013 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 39 Resp: 90954

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 75.6 | 60.7 | 91.1 |



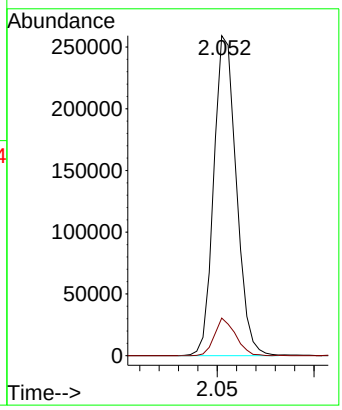


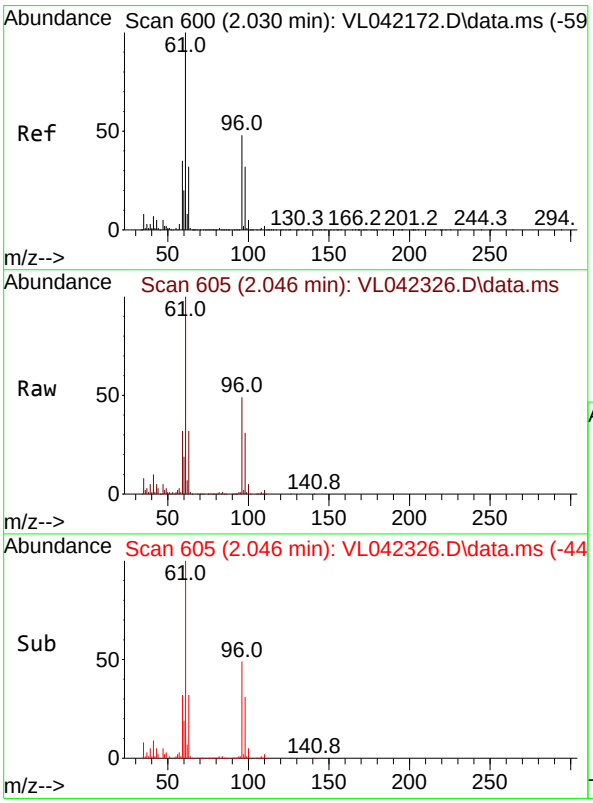

#17
tert-Butyl alcohol
Concen: 6.990 ppbv
RT: 2.052 min Scan# 6
Delta R.T. 0.016 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 59 Resp: 209737

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 11.0 | 8.9 | 13.3 |

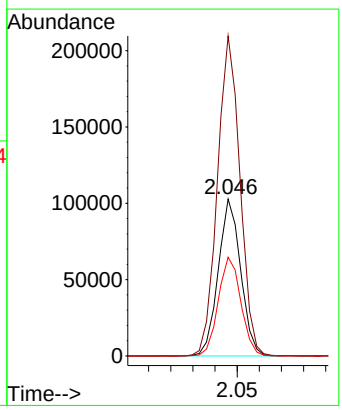


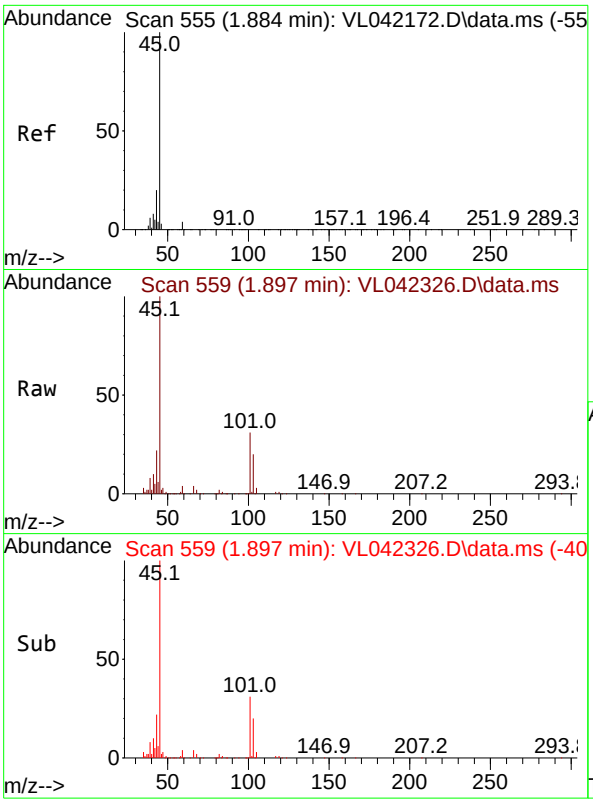




#18
1,1-Dichloroethene
Concen: 7.605 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.016 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 96 Resp: 72322

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 203.8 | 167.6 | 251.4 |
| 98 | 62.9 | 53.5 | 80.3 |



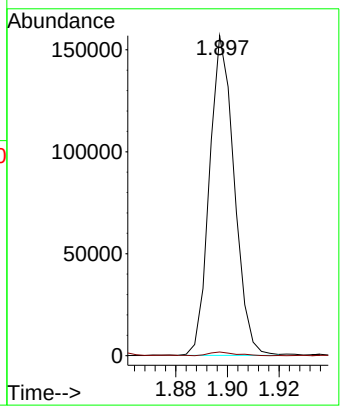


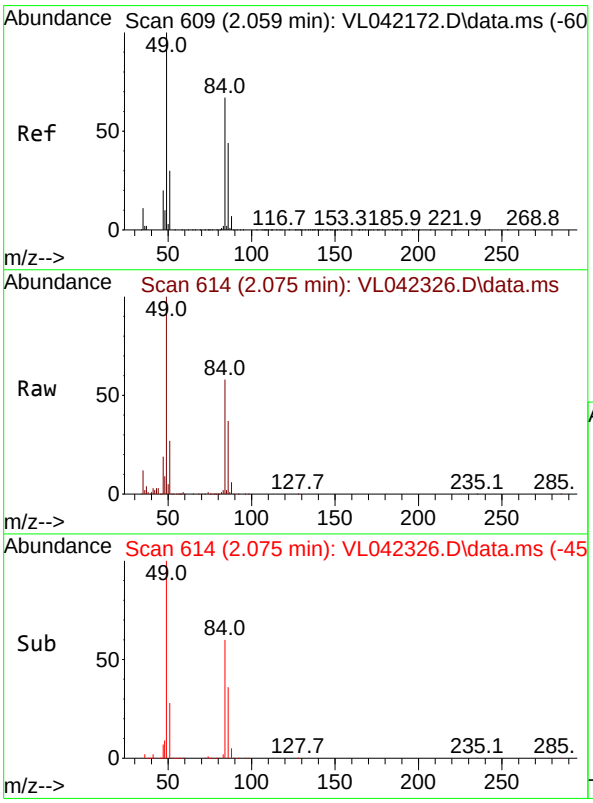

#19
Isopropyl Alcohol
Concen: 7.682 ppbv
RT: 1.897 min Scan# 5
Delta R.T. 0.013 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 45 Resp: 104424

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 47.5 | 36.9 | 55.3 |

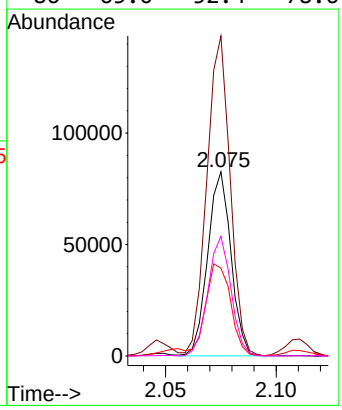


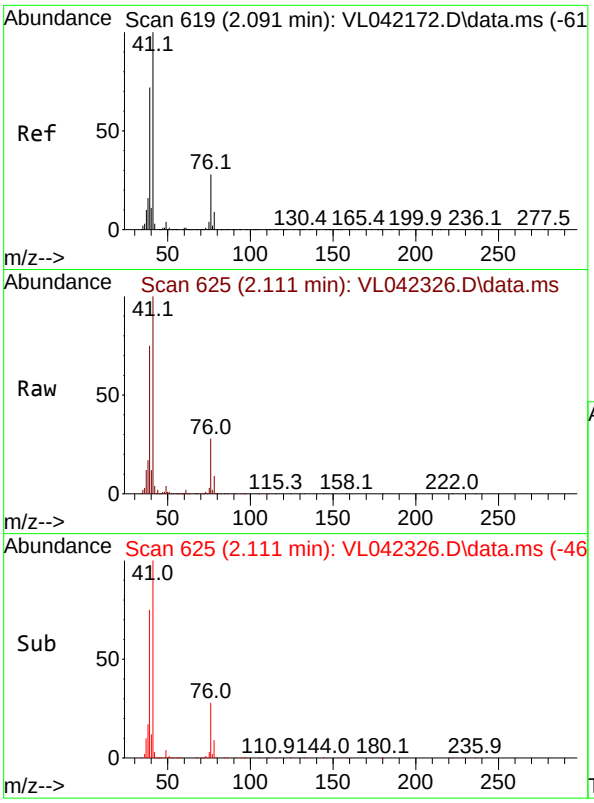




#20
Methylene Chloride
Concen: 6.725 ppbv
RT: 2.075 min Scan# 614
Delta R.T. 0.016 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 84 Resp: 60337

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 172.1 | 120.2 | 180.4 |
| 51 | 47.0 | 37.4 | 56.0 |
| 86 | 65.0 | 52.4 | 78.6 |



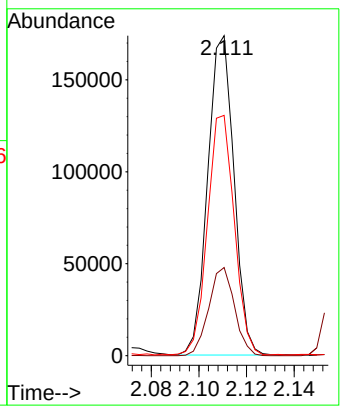


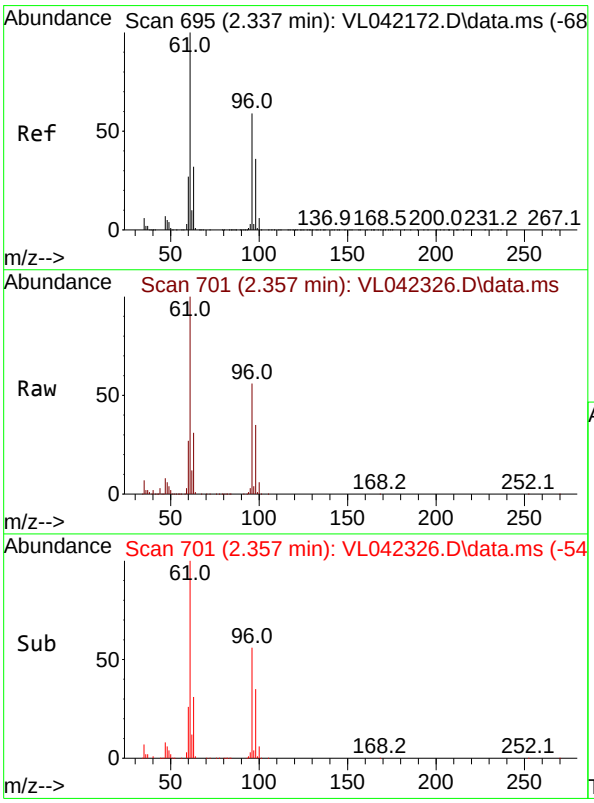

#21
Allyl Chloride
Concen: 7.825 ppbv
RT: 2.111 min Scan# 6
Delta R.T. 0.019 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 41 Resp: 132956

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 27.1 | 24.1 | 36.1 |
| 39 | 76.9 | 61.1 | 91.7 |

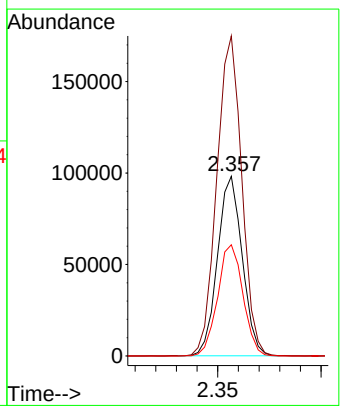


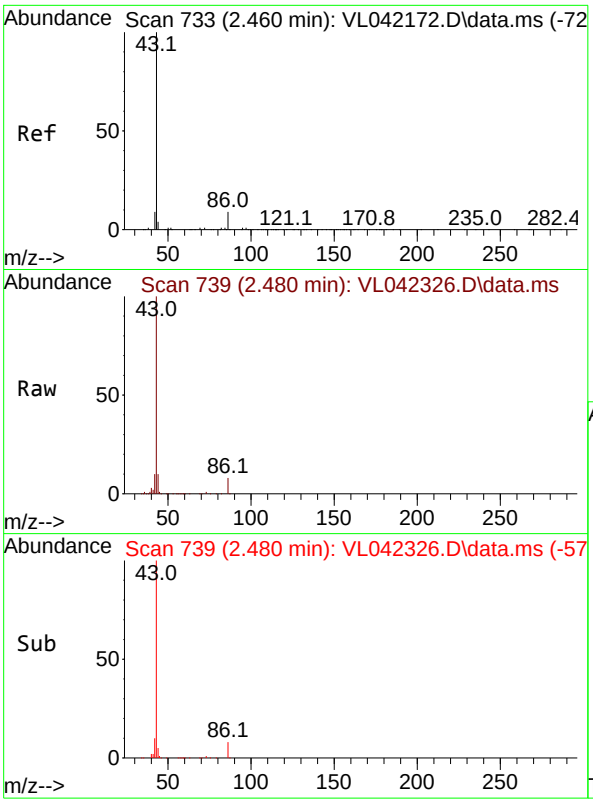




#22
trans-1,2-Dichloroethene
Concen: 7.422 ppbv
RT: 2.357 min Scan# 701
Delta R.T. 0.019 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 96 Resp: 81572

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 178.1 | 136.6 | 204.8 |
| 98 | 61.9 | 49.4 | 74.2 |



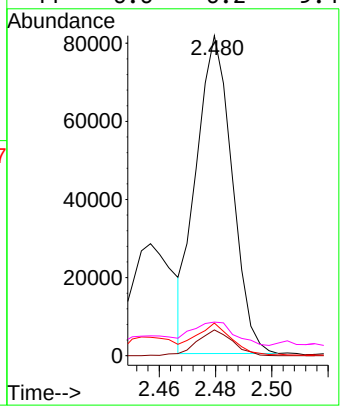


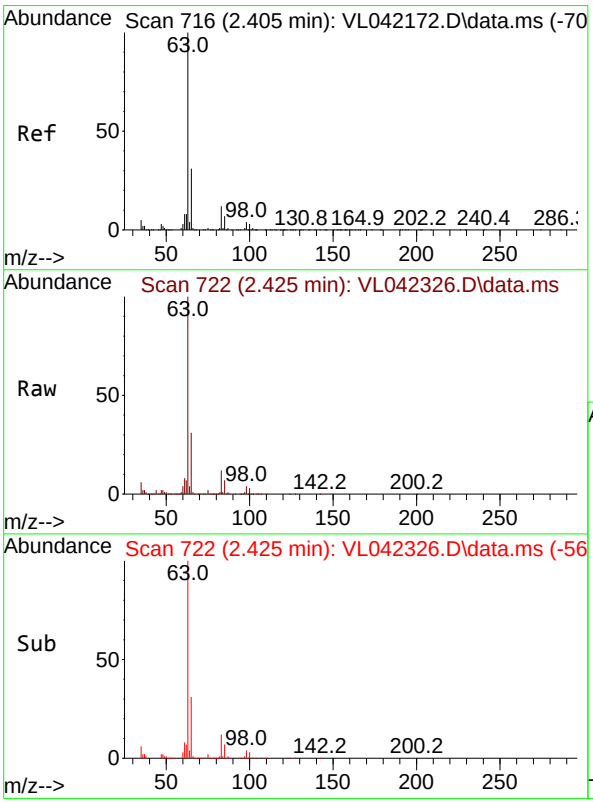

#23
Vinyl Acetate
Concen: 6.920 ppbv
RT: 2.480 min Scan# 7
Delta R.T. 0.019 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 43 Resp: 72160

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 8.1 | 5.5 | 8.3 |
| 42 | 9.8 | 8.6 | 13.0 |
| 44 | 6.6 | 6.2 | 9.4 |

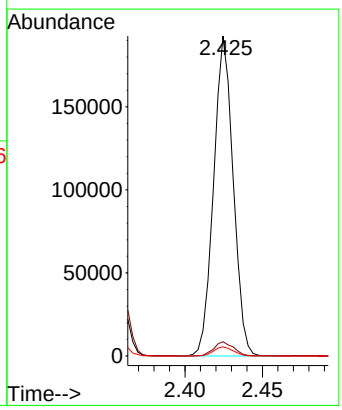


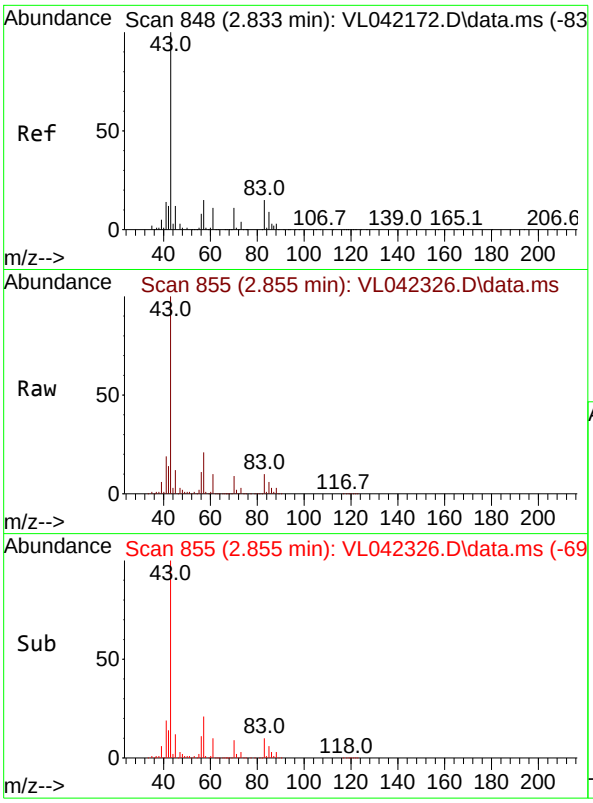




#24
1,1-Dichloroethane
Concen: 8.315 ppbv
RT: 2.425 min Scan# 722
Delta R.T. 0.019 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 63 Resp: 169411

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 4.4 | 2.3 | 6.8 |
| 100 | 2.8 | 1.6 | 4.7 |



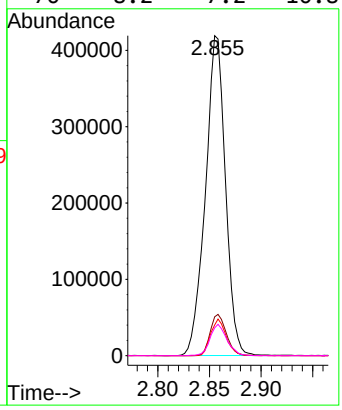


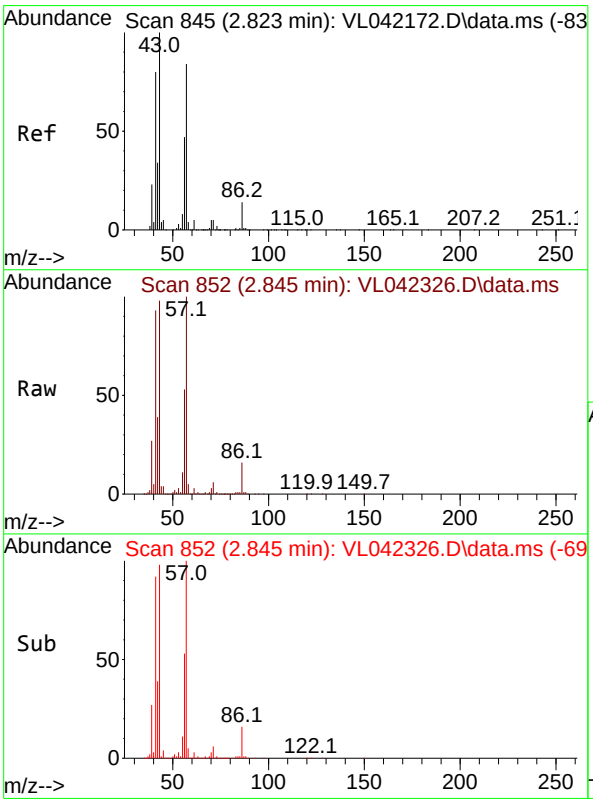

#25
Ethyl Acetate
Concen: 9.030 ppbv
RT: 2.855 min Scan# 8
Delta R.T. 0.023 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 43 Resp: 564611

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 10.4 | 8.2 | 12.2 |
| 61 | 9.0 | 7.3 | 10.9 |
| 70 | 8.2 | 7.2 | 10.8 |

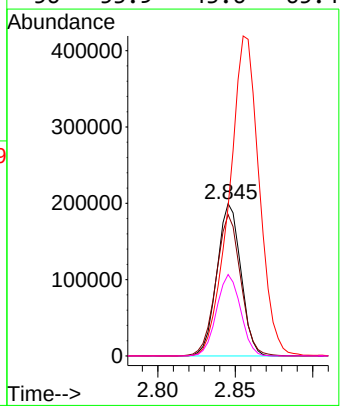


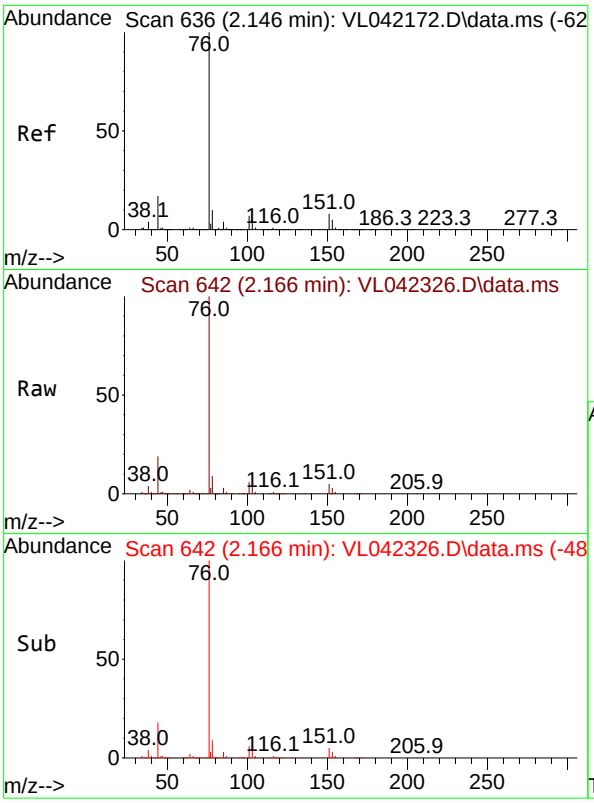




#26
Hexane
Concen: 8.851 ppbv
RT: 2.845 min Scan# 852
Delta R.T. 0.023 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 57 Resp: 213782

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 95.9 | 76.6 | 114.8 |
| 43 | 264.9 | 207.8 | 311.8 |
| 56 | 53.9 | 43.6 | 65.4 |



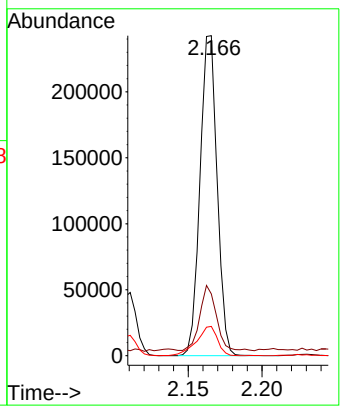


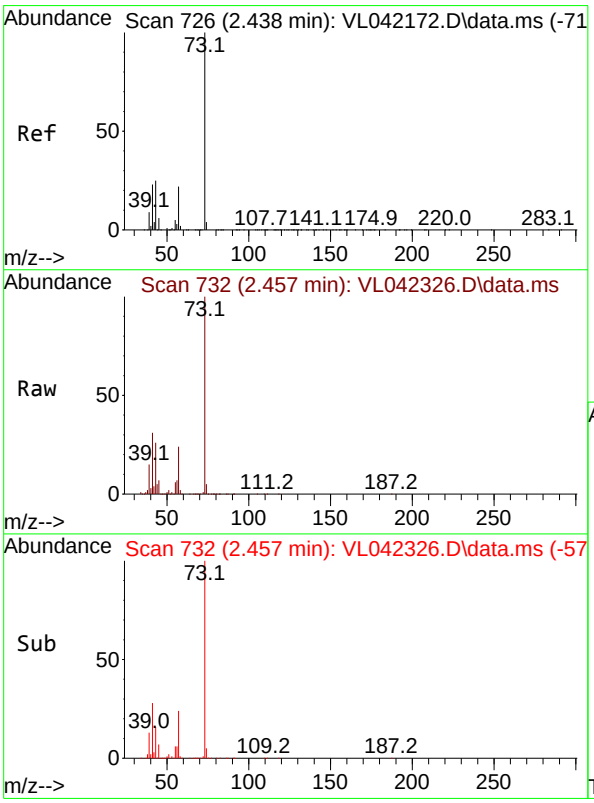

#27
Carbon Disulfide
Concen: 7.547 ppbv
RT: 2.166 min Scan# 64
Delta R.T. 0.019 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 76 Resp: 195452

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 20.1 | 14.7 | 22.1 |
| 78 | 11.2 | 9.3 | 13.9 |

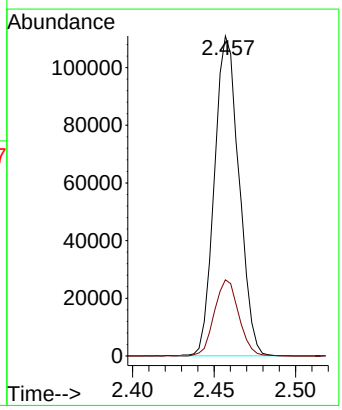


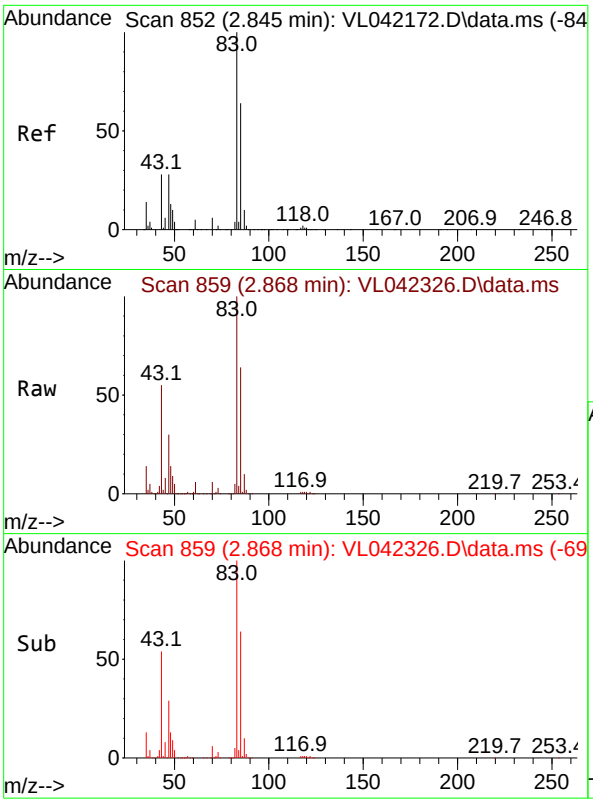




#28
Methyl tert-Butyl Ether
Concen: 7.734 ppbv
RT: 2.457 min Scan# 732
Delta R.T. 0.019 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 73 Resp: 116301

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 23.7 | 20.5 | 30.7 |



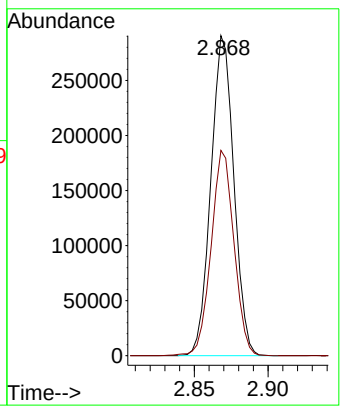


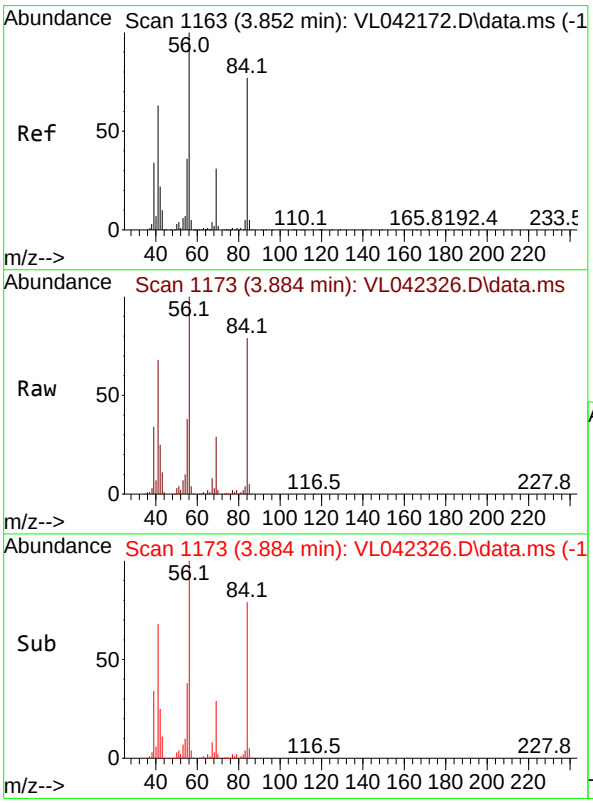

#29
Chloroform
Concen: 8.888 ppbv
RT: 2.868 min Scan# 8
Delta R.T. 0.023 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 83 Resp: 314164

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.2 | 51.4 | 77.2 |

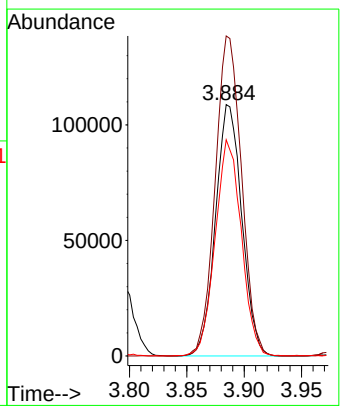


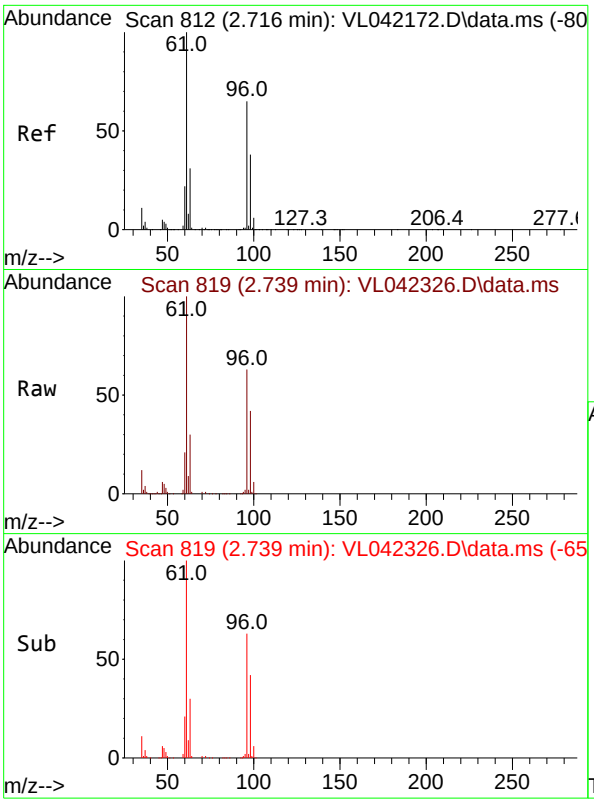




#30
Cyclohexane
Concen: 8.266 ppbv
RT: 3.884 min Scan# 1173
Delta R.T. 0.032 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 84 Resp: 173360

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 127.7 | 102.8 | 154.2 |
| 41 | 85.6 | 66.5 | 99.7 |



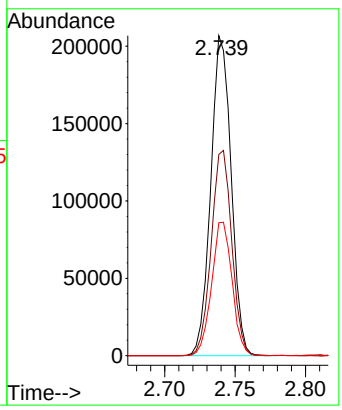


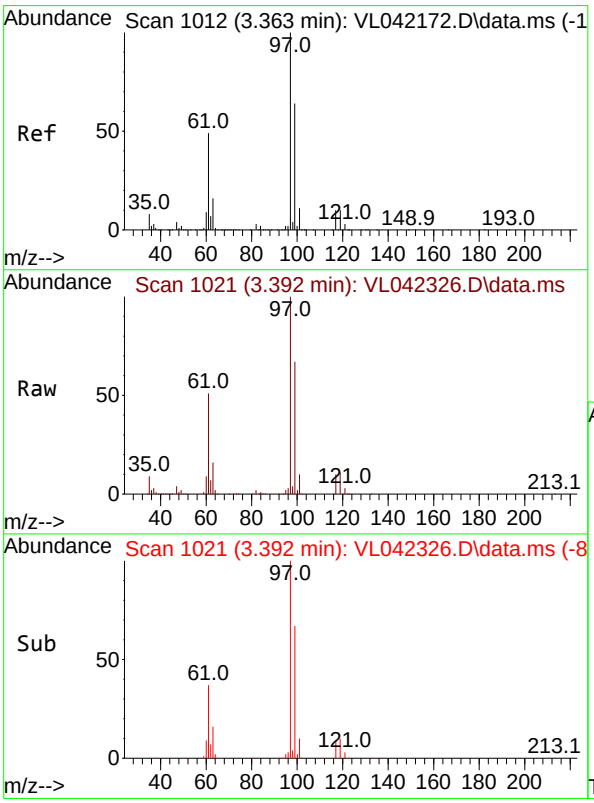

#31
cis-1,2-Dichloroethene
Concen: 8.490 ppbv
RT: 2.739 min Scan# 8
Delta R.T. 0.023 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 61 Resp: 208160

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 62.9 | 51.8 | 77.8 |
| 98 | 41.5 | 30.6 | 46.0 |

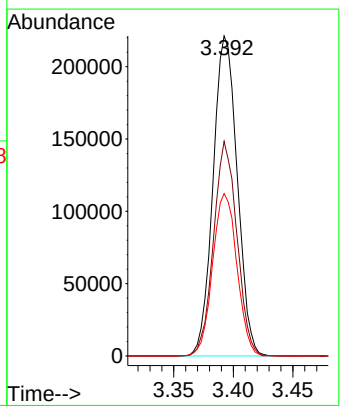


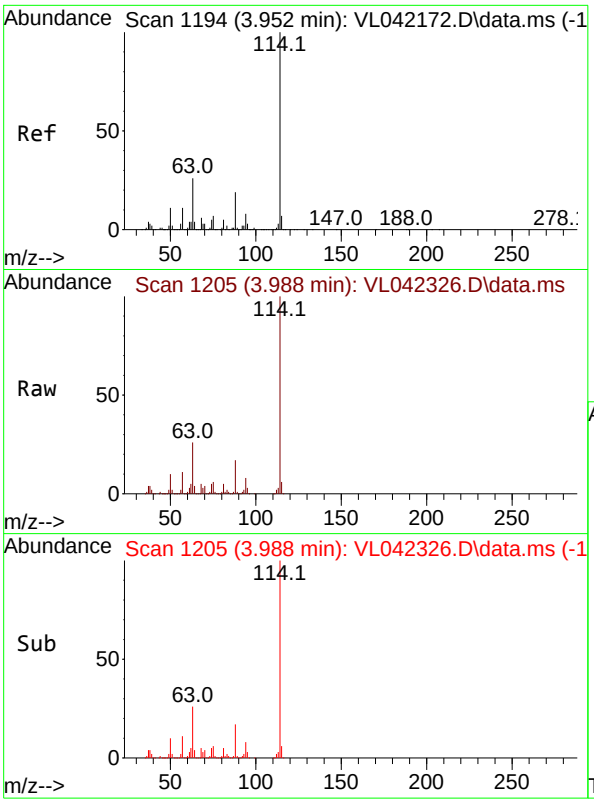




#32
1,1,1-Trichloroethane
Concen: 7.704 ppbv
RT: 3.392 min Scan# 1021
Delta R.T. 0.029 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 97 Resp: 311758

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.8 | 51.5 | 77.3 |
| 61 | 51.1 | 38.7 | 58.1 |



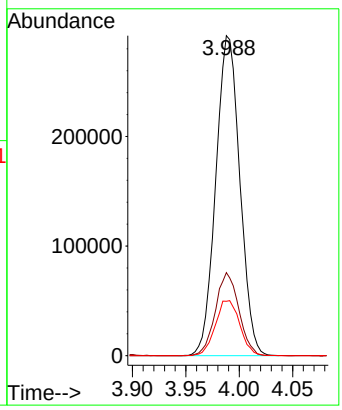


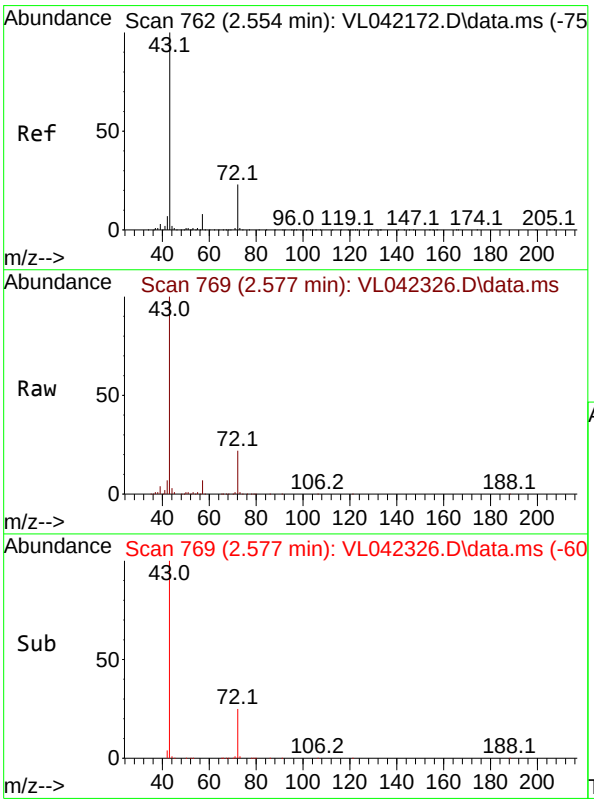

#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.988 min Scan# 1
Delta R.T. 0.035 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:114 Resp: 457227

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.4 | 20.7 | 31.1 |
| 88 | 17.7 | 15.0 | 22.4 |

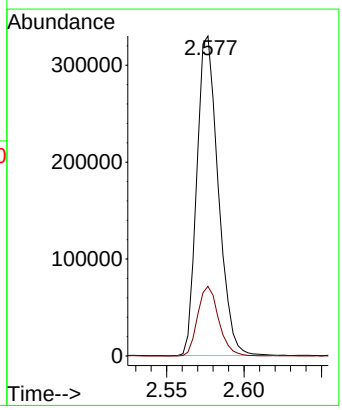


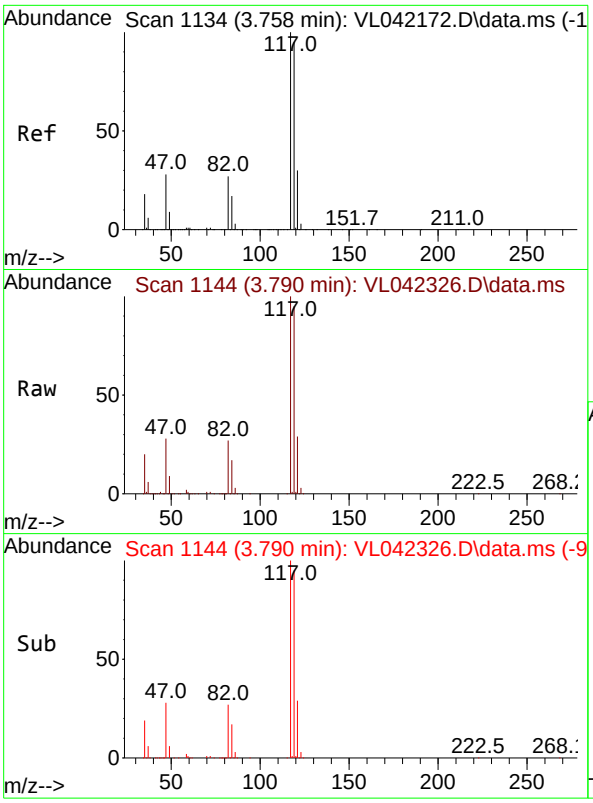




#34
2-Butanone
Concen: 9.565 ppbv
RT: 2.577 min Scan# 769
Delta R.T. 0.023 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 43 Resp: 317117

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 21.5 | 18.2 | 27.2 |



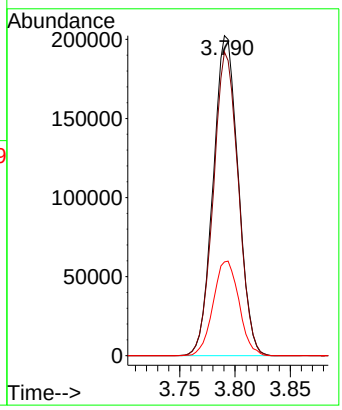


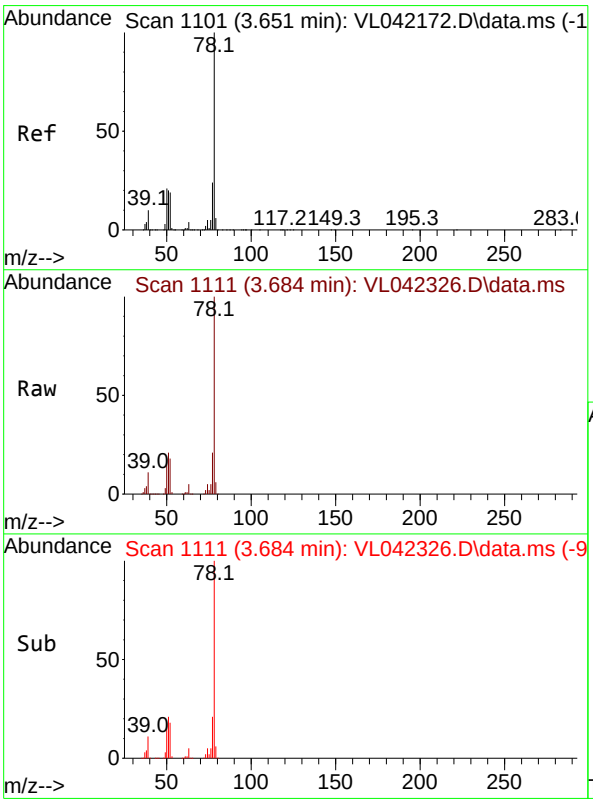

#35
Carbon Tetrachloride
Concen: 8.902 ppbv
RT: 3.790 min Scan# 11
Delta R.T. 0.032 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:117 Resp: 317942

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 94.9 | 76.2 | 114.2 |
| 121 | 29.3 | 24.2 | 36.4 |

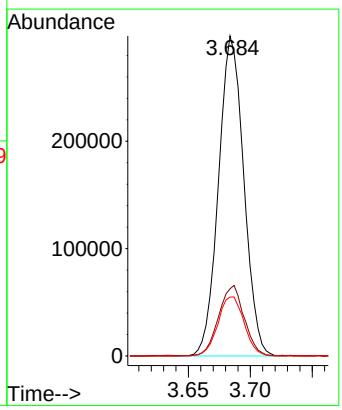


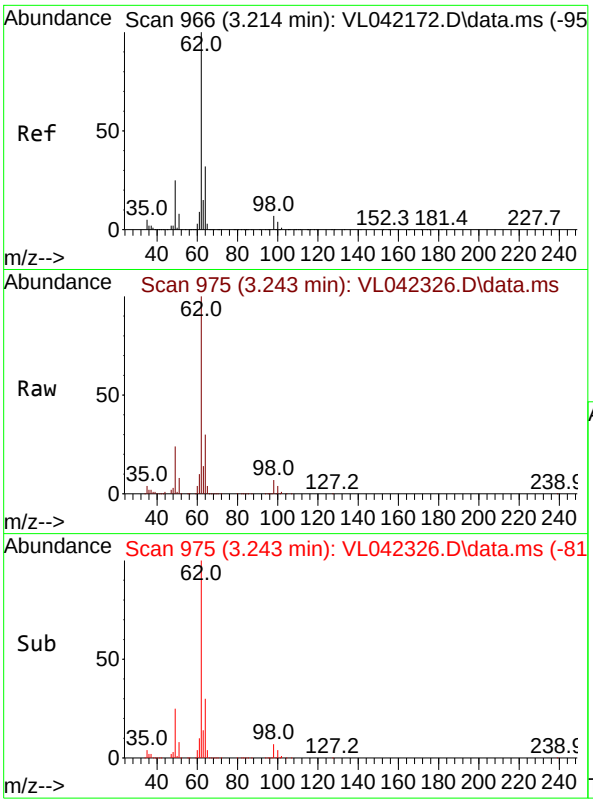




#36
Benzene
Concen: 9.360 ppbv
RT: 3.684 min Scan# 1111
Delta R.T. 0.032 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 78 Resp: 424254

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 20.9 | 19.1 | 28.7 |
| 50 | 18.4 | 16.6 | 24.8 |



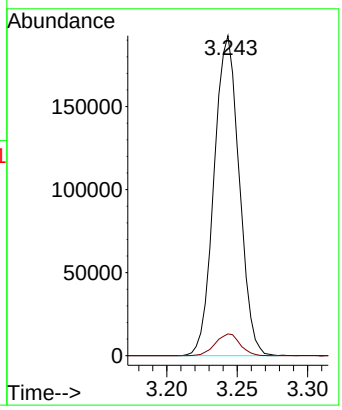


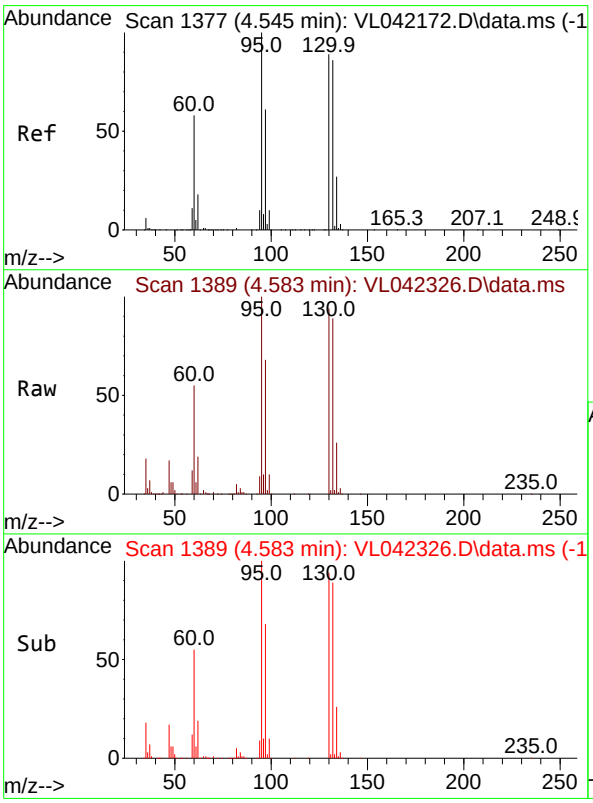

#37
1,2-Dichloroethane
Concen: 9.231 ppbv
RT: 3.243 min Scan# 9
Delta R.T. 0.029 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 62 Resp: 239556

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 6.7 | 5.4 | 8.2 |

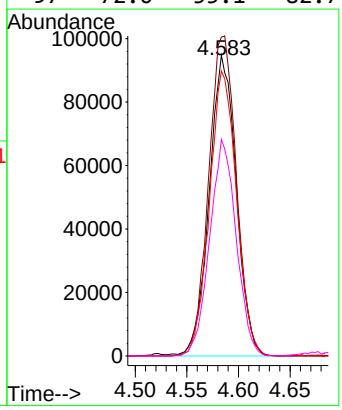


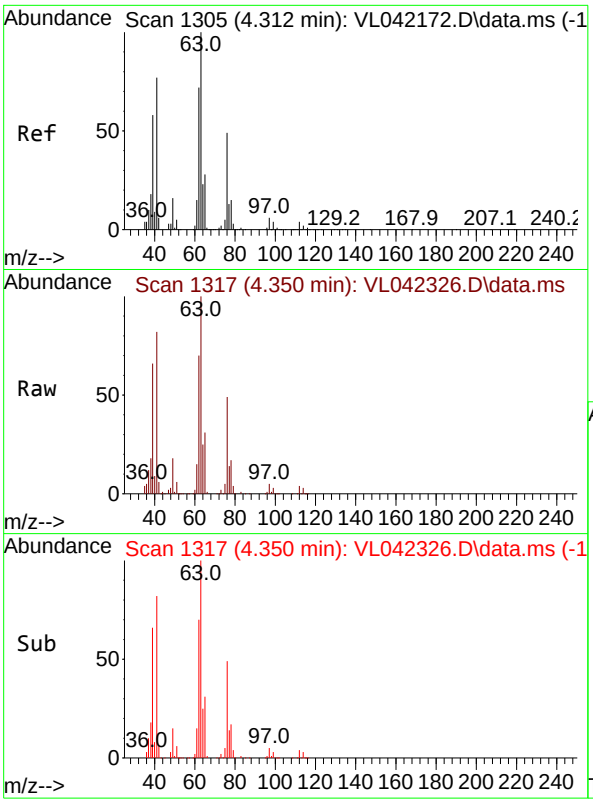




#38
Trichloroethene
Concen: 9.102 ppbv
RT: 4.583 min Scan# 1389
Delta R.T. 0.039 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion:130 Resp: 172146

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 106.1 | 89.8 | 134.8 |
| 132 | 94.8 | 77.4 | 116.2 |
| 97 | 72.0 | 55.1 | 82.7 |



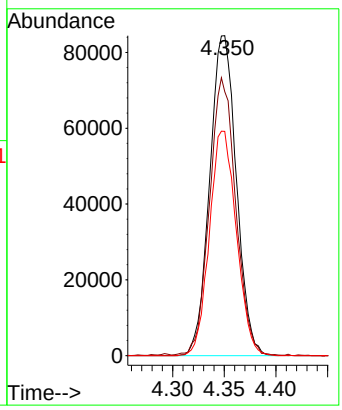


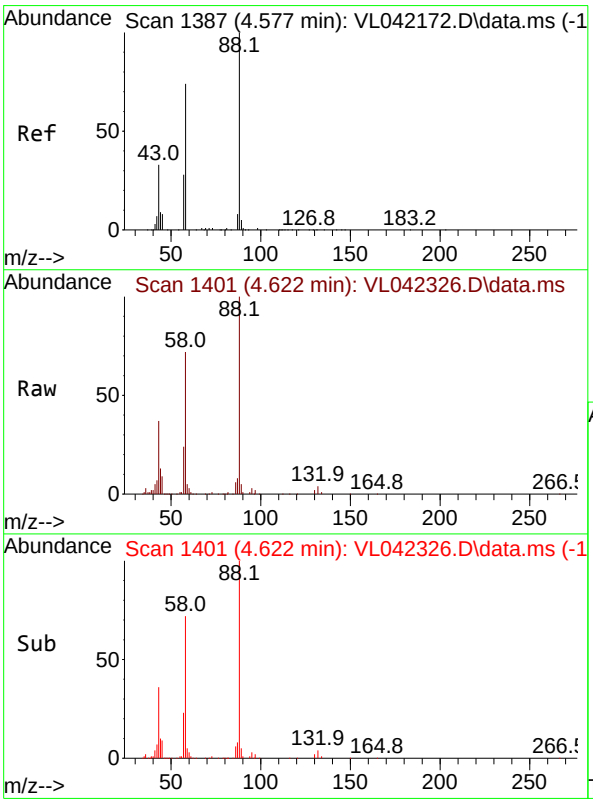

#39
1,2-Dichloropropane
Concen: 9.190 ppbv
RT: 4.350 min Scan# 1
Delta R.T. 0.039 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 63 Resp: 151707

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 82.3 | 61.7 | 92.5 |
| 62 | 70.1 | 57.6 | 86.4 |

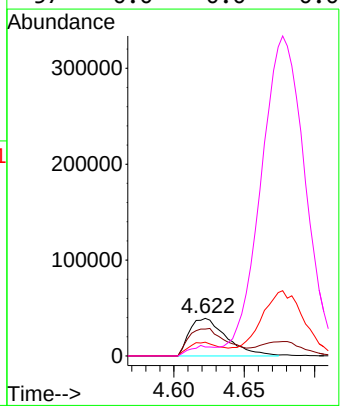


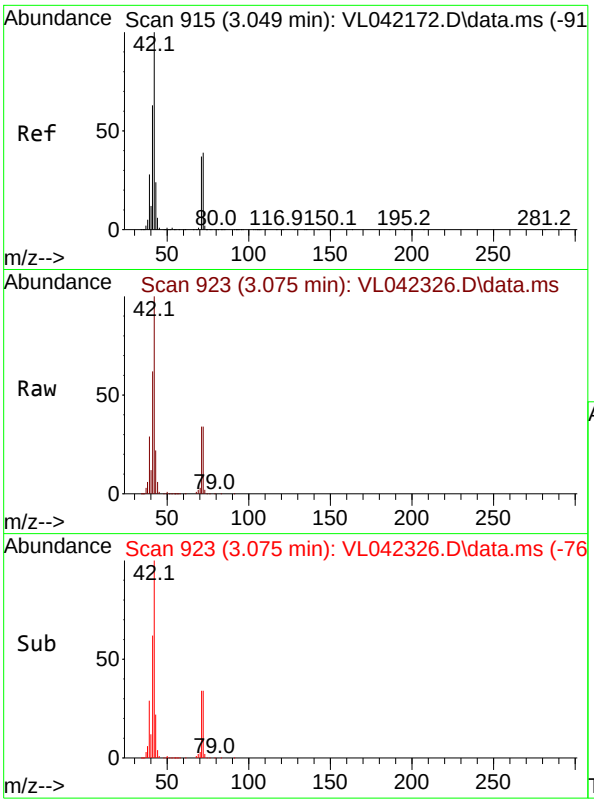




#40
1,4-Dioxane
Concen: 8.226 ppbv
RT: 4.622 min Scan# 1401
Delta R.T. 0.045 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 88 Resp: 72075

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 79.6 | 62.7 | 94.1 |
| 43 | 31.4 | 23.0 | 34.4 |
| 57 | 0.0 | 0.0 | 0.0 |



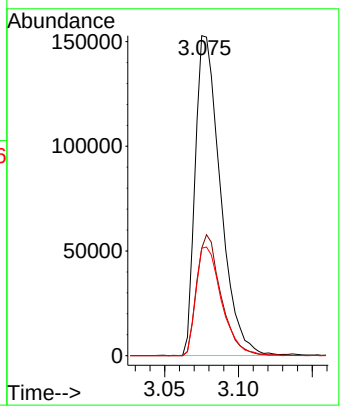


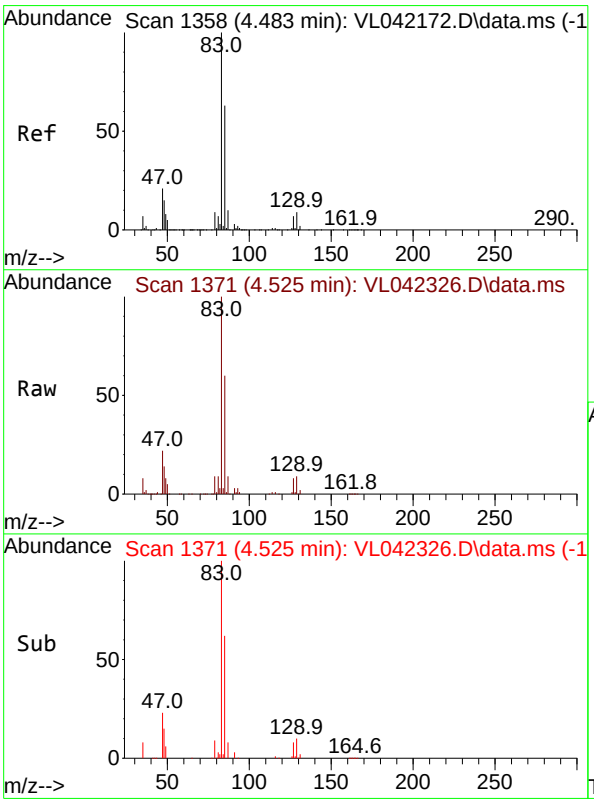

#41
Tetrahydrofuran
Concen: 9.505 ppbv
RT: 3.075 min Scan# 9
Delta R.T. 0.026 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 42 Resp: 181471

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 36.5 | 31.4 | 47.0 |
| 71 | 34.6 | 30.2 | 45.4 |

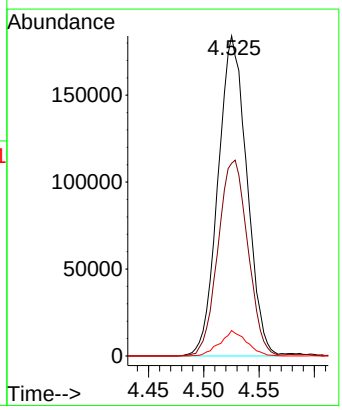


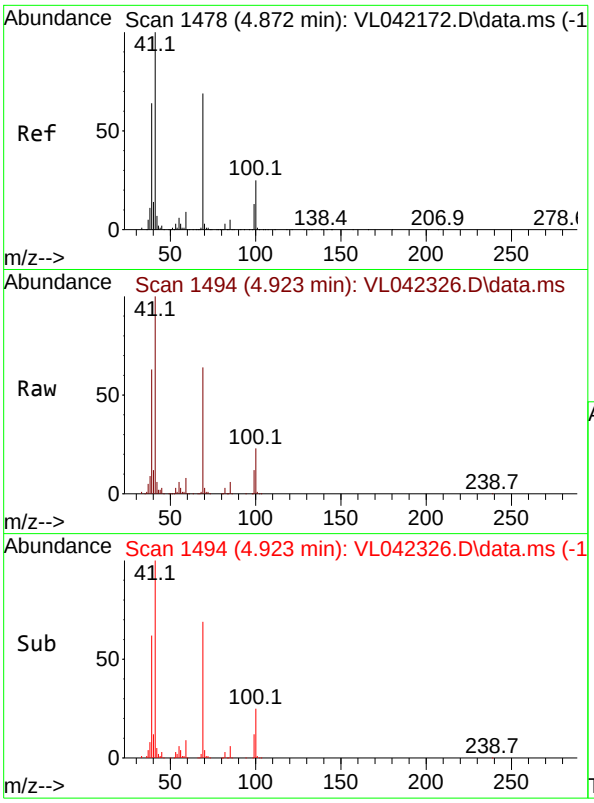




#42
Bromodichloromethane
Concen: 9.313 ppbv
RT: 4.525 min Scan# 1371
Delta R.T. 0.042 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 83 Resp: 333167

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 60.2 | 50.5 | 75.7 |
| 127 | 7.9 | 5.9 | 8.9 |



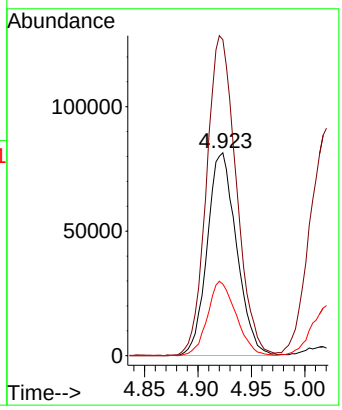


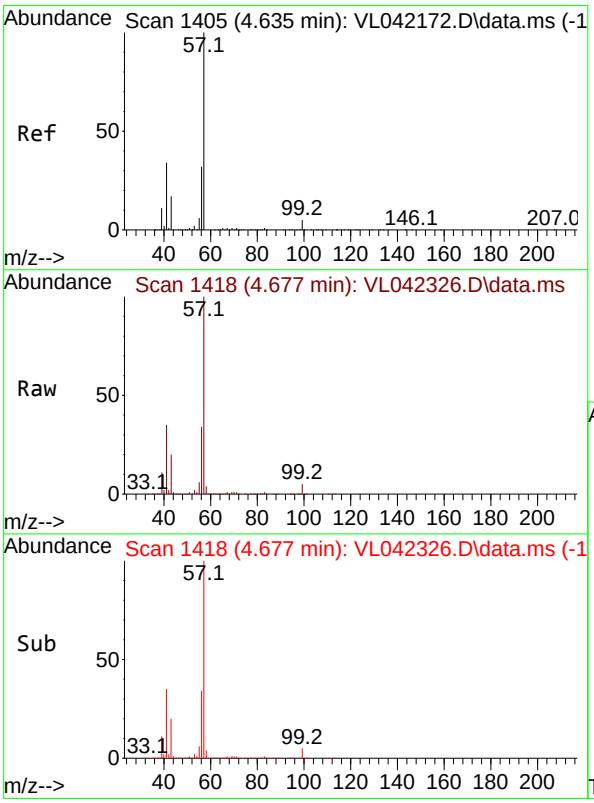

#43
Methyl Methacrylate
Concen: 8.098 ppbv
RT: 4.923 min Scan# 14
Delta R.T. 0.052 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 69 Resp: 155399

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 160.2 | 123.8 | 185.6 |
| 100 | 35.9 | 28.4 | 42.6 |

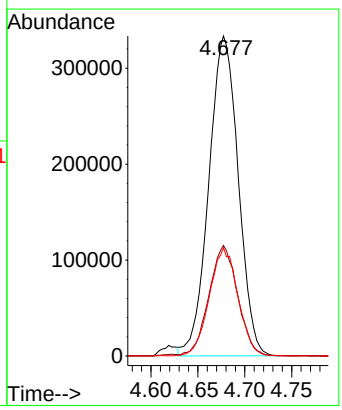


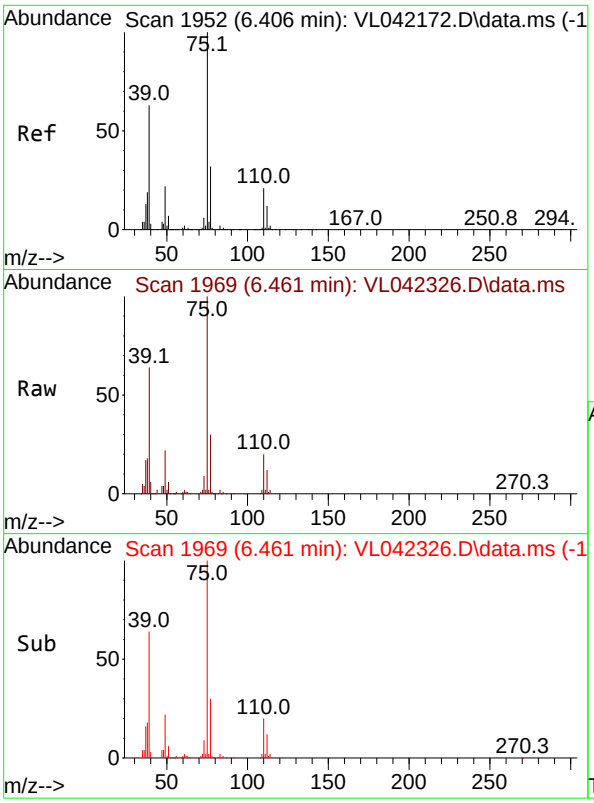




#44
2,2,4-Trimethylpentane
Concen: 9.511 ppbv
RT: 4.677 min Scan# 1418
Delta R.T. 0.042 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 57 Resp: 728571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 33.8 | 26.8 | 40.2 |
| 56 | 32.8 | 25.6 | 38.4 |



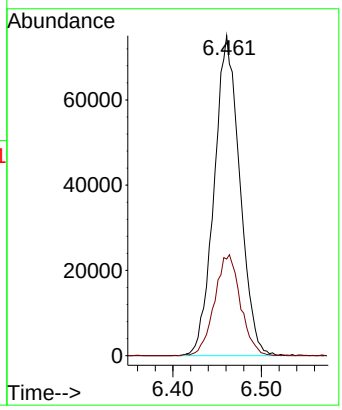


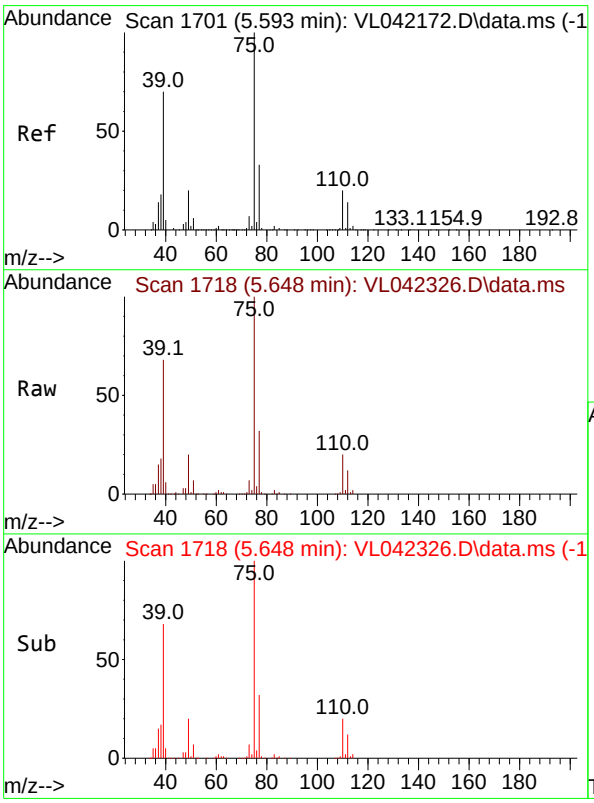

#45
t-1,3-Dichloropropene
Concen: 7.338 ppbv
RT: 6.461 min Scan# 1
Delta R.T. 0.055 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 75 Resp: 151063

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.2 | 26.0 | 39.0 |

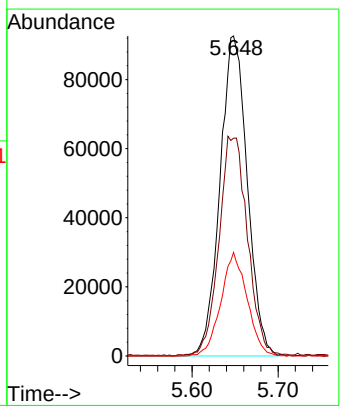


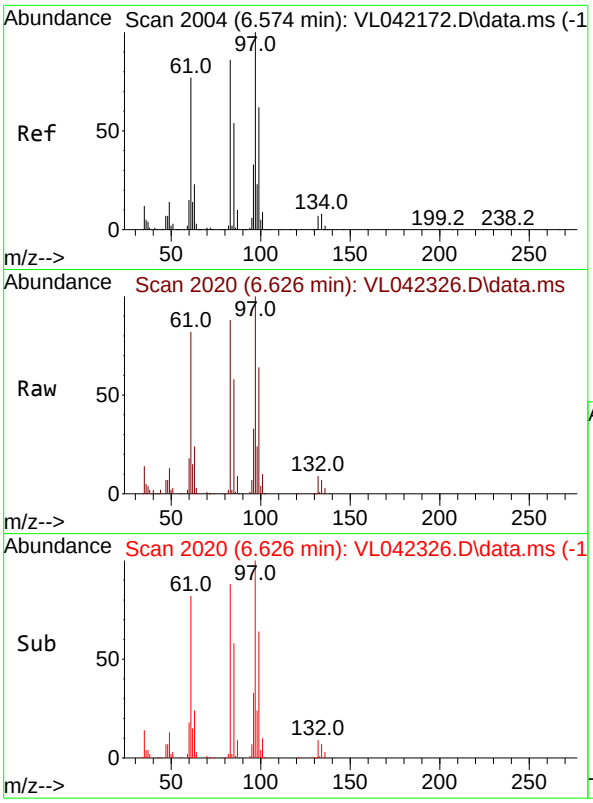




#46
cis-1,3-Dichloropropene
Concen: 8.097 ppbv
RT: 5.648 min Scan# 1718
Delta R.T. 0.055 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 75 Resp: 204339

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 39 | 67.6 | 55.8 | 83.6 |
| 77 | 32.3 | 26.0 | 39.0 |



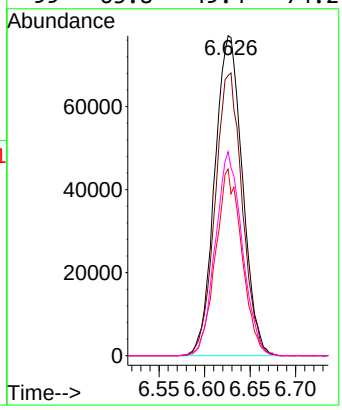


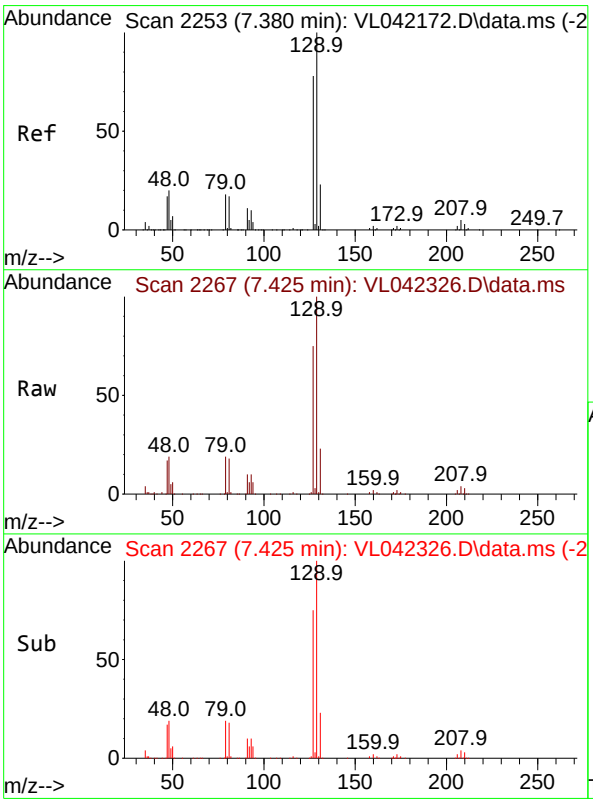

#47
1,1,2-Trichloroethane
Concen: 9.348 ppbv
RT: 6.626 min Scan# 2
Delta R.T. 0.052 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 97 Resp: 163132

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 87.6 | 69.2 | 103.8 |
| 85 | 58.3 | 43.1 | 64.7 |
| 99 | 63.8 | 49.4 | 74.2 |

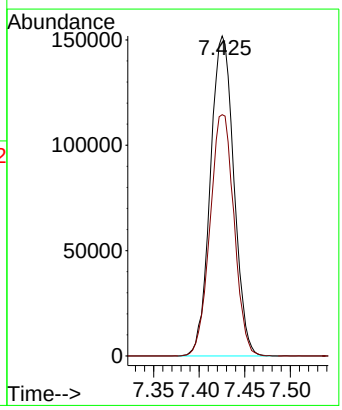


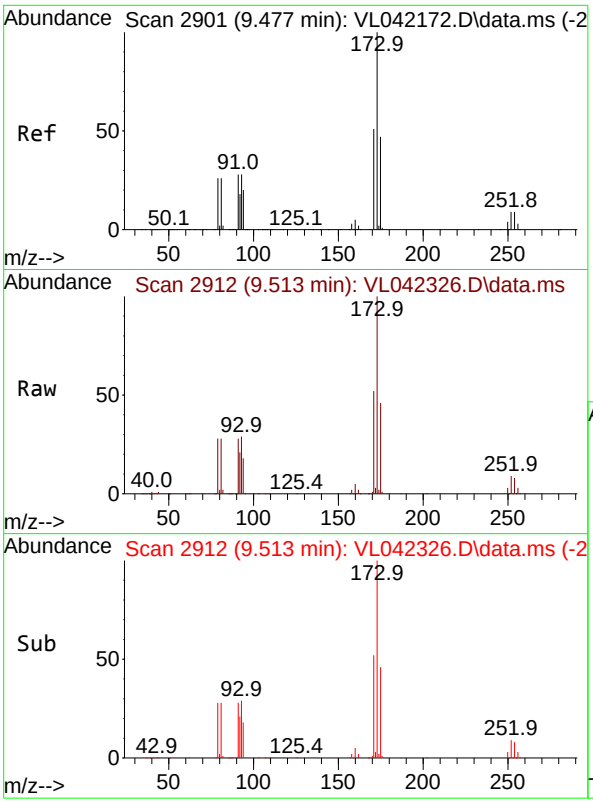




#48
Dibromochloromethane
Concen: 9.217 ppbv
RT: 7.425 min Scan# 2267
Delta R.T. 0.045 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion:129 Resp: 272592

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.0 | 39.1 | 117.2 |



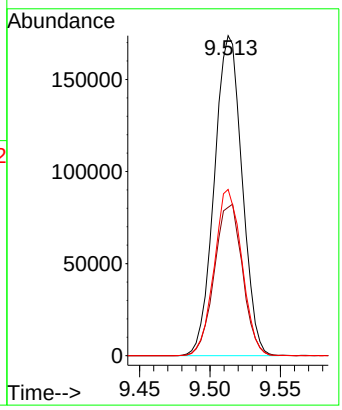


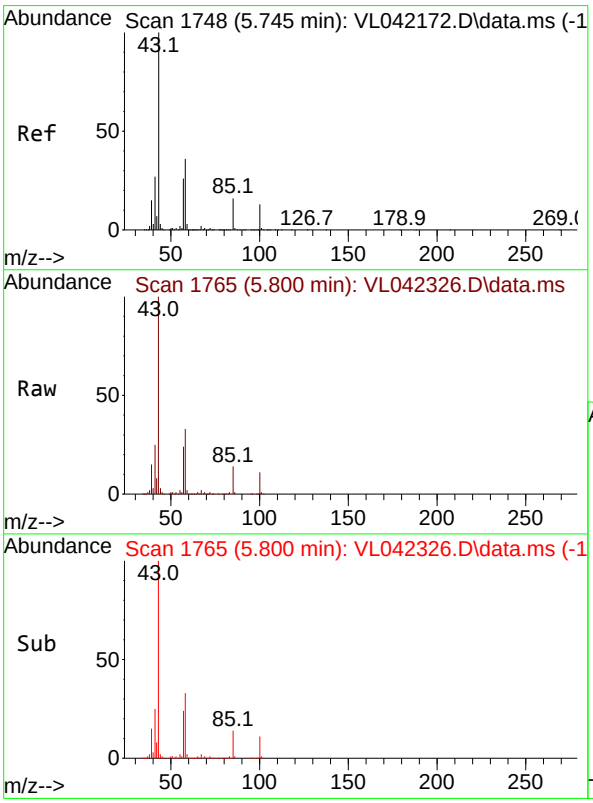

#49
Bromoform
Concen: 8.997 ppbv
RT: 9.513 min Scan# 2
Delta R.T. 0.035 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:173 Resp: 238880

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.1 | 38.6 | 57.8 |
| 171 | 51.7 | 41.8 | 62.6 |

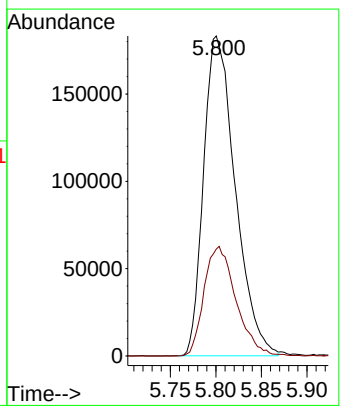


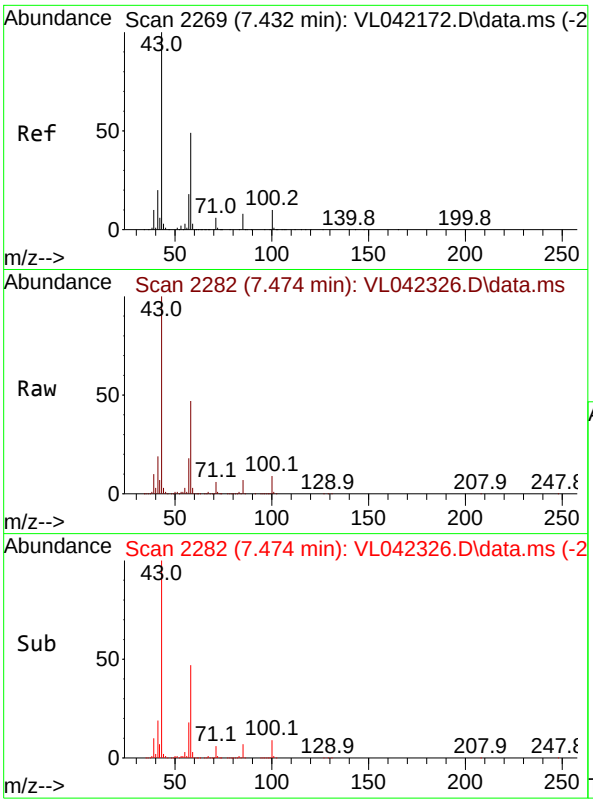




#50
4-Methyl-2-Pentanone
Concen: 8.428 ppbv
RT: 5.800 min Scan# 1765
Delta R.T. 0.055 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 43 Resp: 442851

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 34.6 | 29.0 | 43.6 |



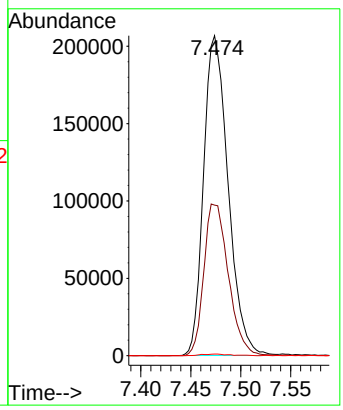


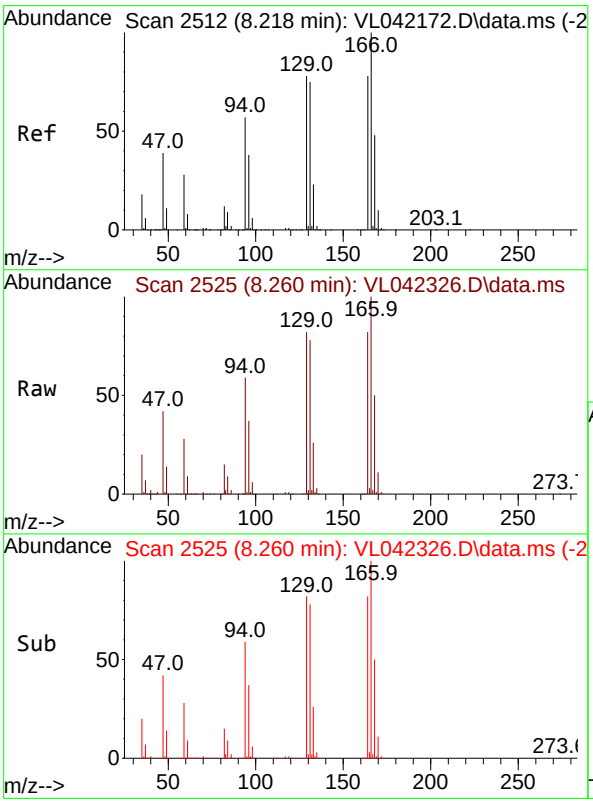

#51
2-Hexanone
Concen: 8.192 ppbv
RT: 7.474 min Scan# 2
Delta R.T. 0.042 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 43 Resp: 353471

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 47.5 | 39.7 | 59.5 |
| 98 | 0.6 | 0.1 | 0.1# |

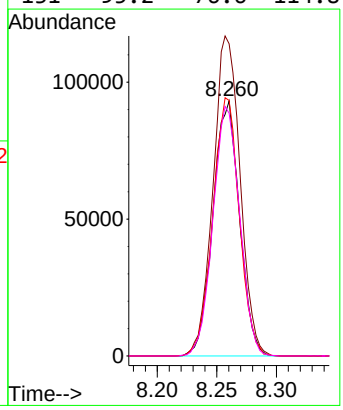


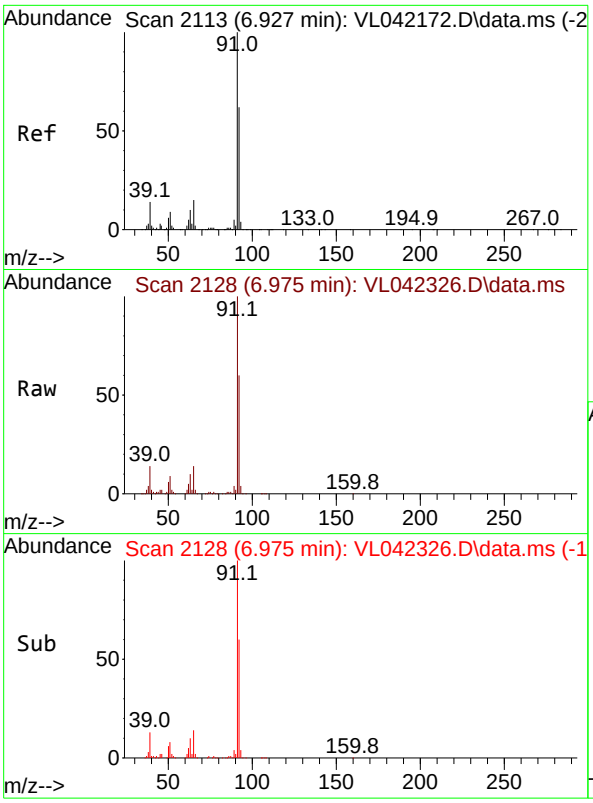




#52
Tetrachloroethene
Concen: 8.037 ppbv
RT: 8.260 min Scan# 2525
Delta R.T. 0.042 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion:164 Resp: 144481

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 122.4 | 102.5 | 153.7 |
| 129 | 100.2 | 79.8 | 119.8 |
| 131 | 95.2 | 76.6 | 114.8 |



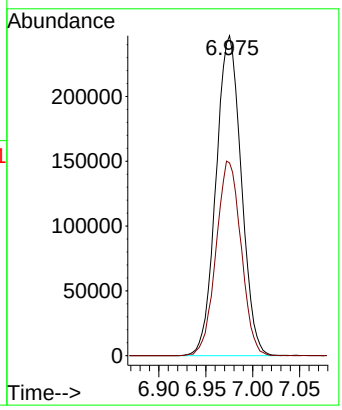


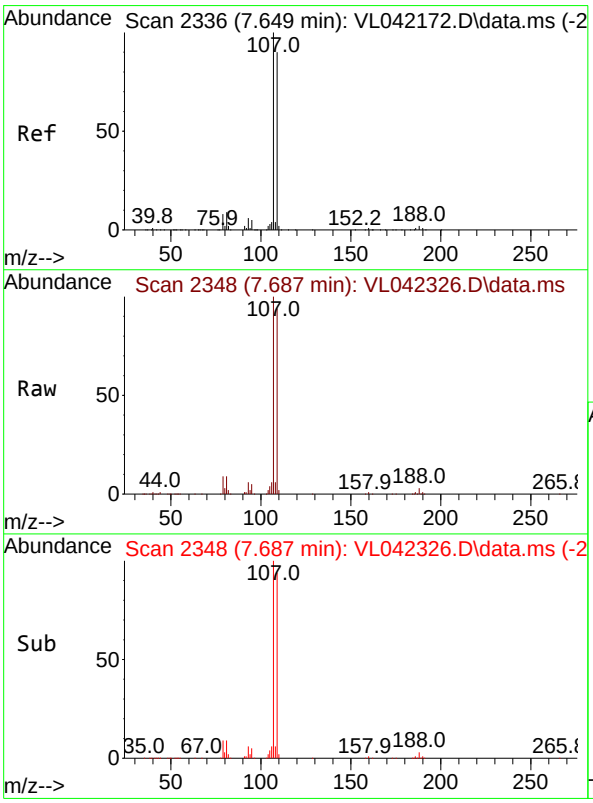

#53
Toluene
Concen: 8.595 ppbv
RT: 6.975 min Scan# 21
Delta R.T. 0.048 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 91 Resp: 461854

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 60.2 | 48.4 | 72.6 |

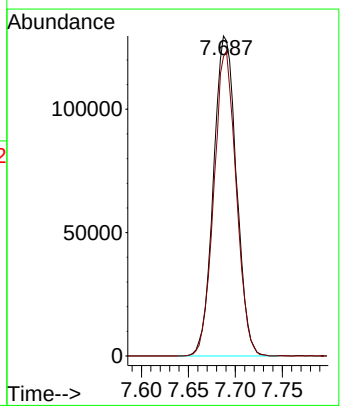


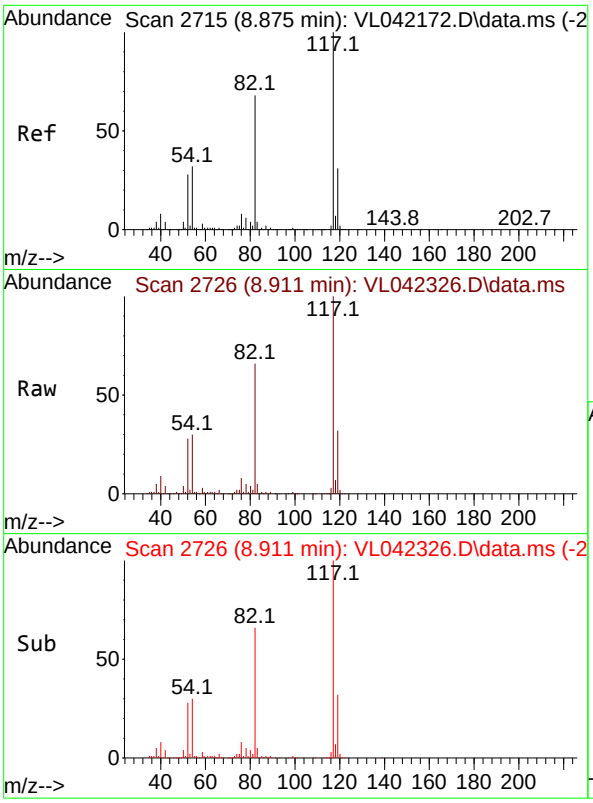




#54
1,2-Dibromoethane
Concen: 9.047 ppbv
RT: 7.687 min Scan# 2348
Delta R.T. 0.039 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion:107 Resp: 220075

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 93.6 | 72.2 | 108.4 |



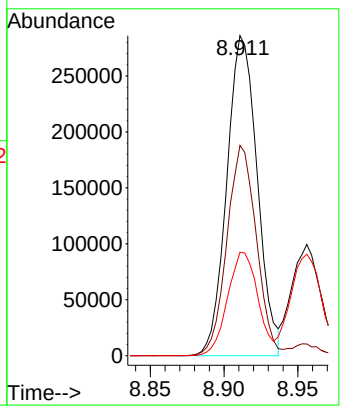


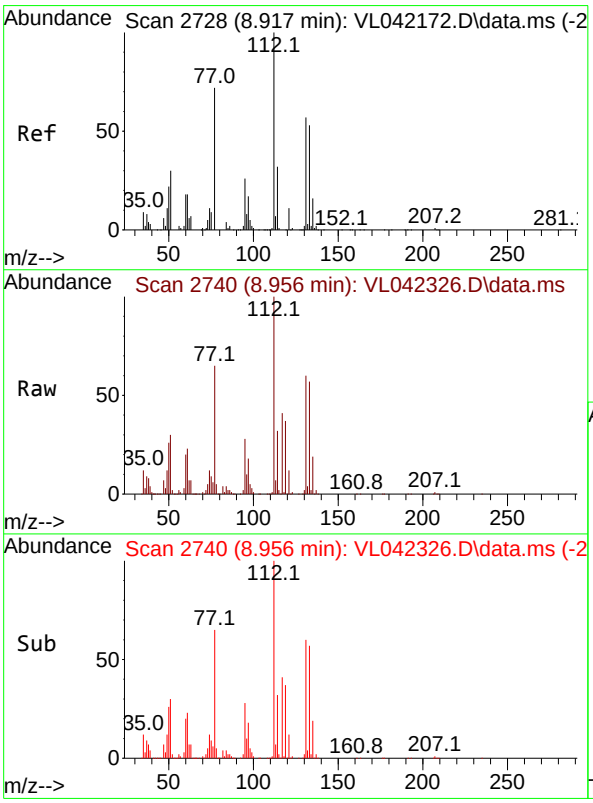

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.911 min Scan# 2
Delta R.T. 0.035 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:117 Resp: 411493

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 67.0 | 55.8 | 83.6 |
| 119 | 33.0 | 25.5 | 38.3 |

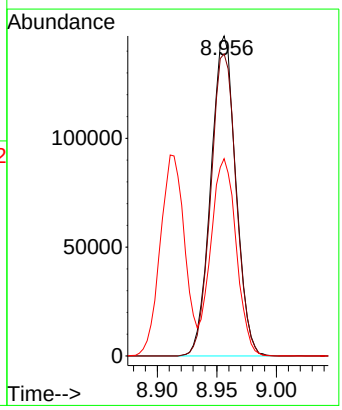


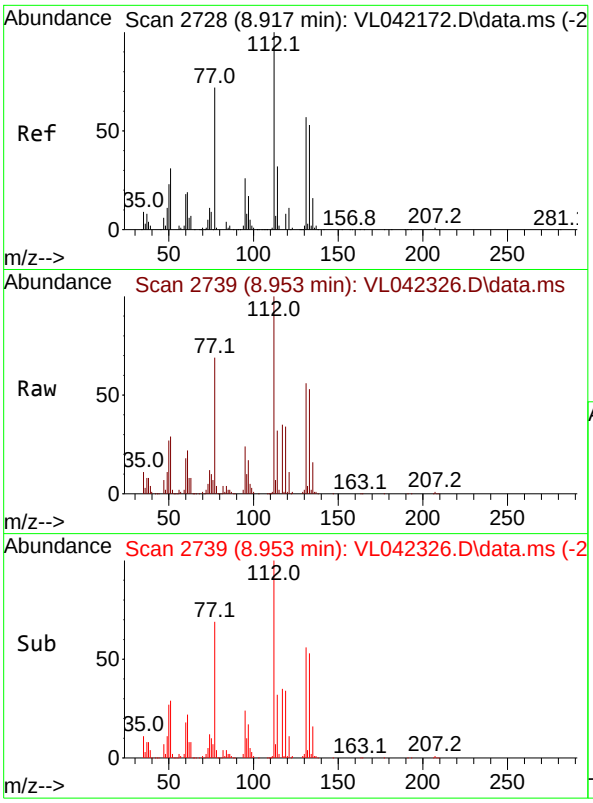




#56
1,1,1,2-Tetrachloroethane
Concen: 9.455 ppbv
RT: 8.956 min Scan# 2740
Delta R.T. 0.039 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion:131 Resp: 214175

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.9 | 76.6 | 114.8 |
| 119 | 61.1 | 49.8 | 74.6 |



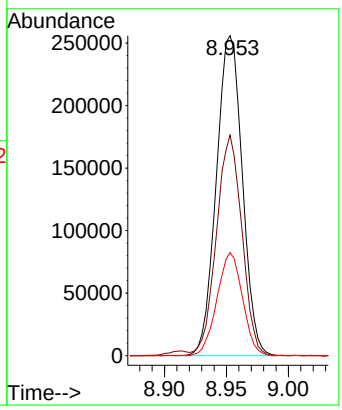


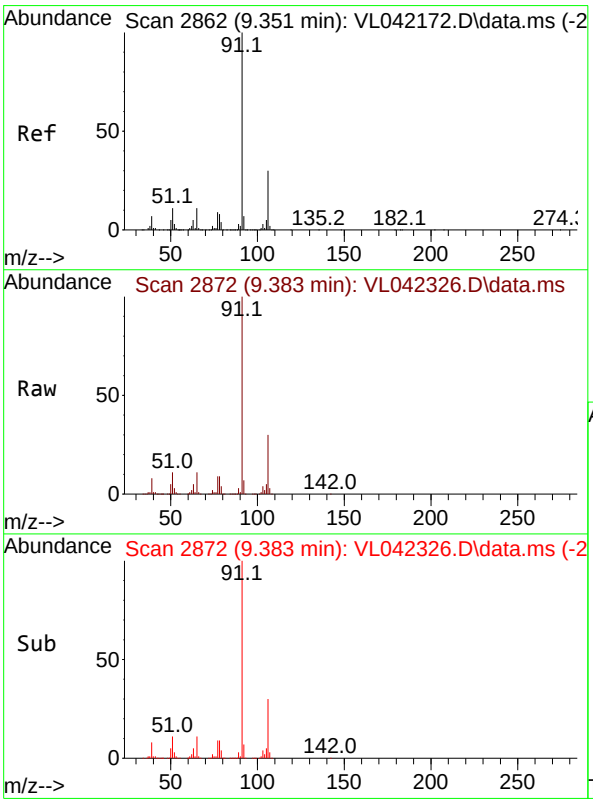

#57
Chlorobenzene
Concen: 9.617 ppbv
RT: 8.953 min Scan# 2
Delta R.T. 0.035 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:112 Resp: 375357

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 68.8 | 58.2 | 87.2 |
| 114 | 32.2 | 29.1 | 35.5 |

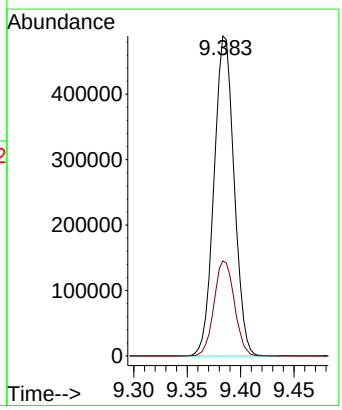


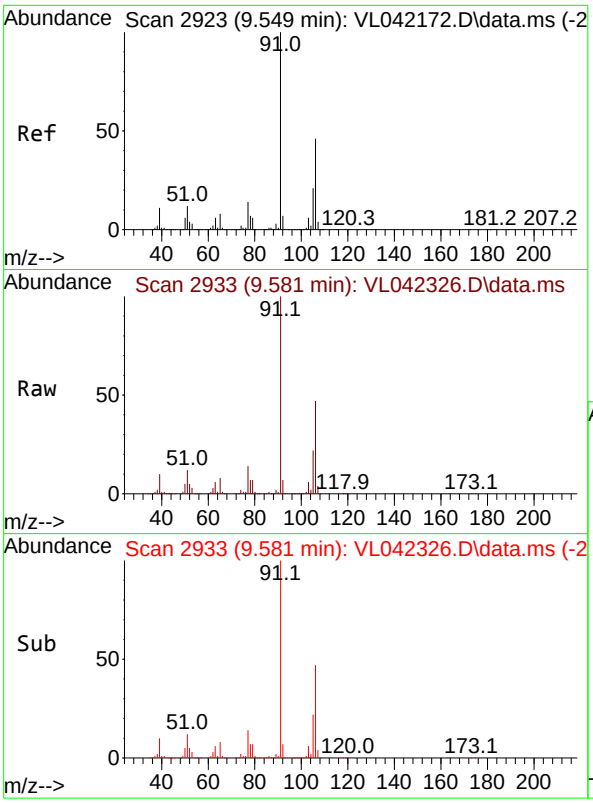




#58
Ethyl Benzene
Concen: 8.754 ppbv
RT: 9.383 min Scan# 2872
Delta R.T. 0.032 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 91 Resp: 639857

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.7 | 24.2 | 36.2 |



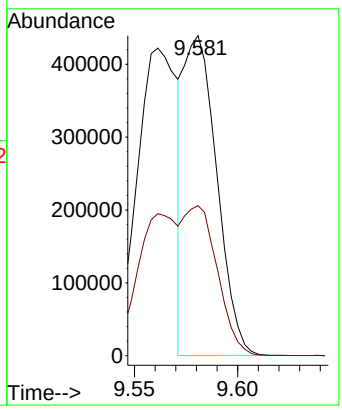


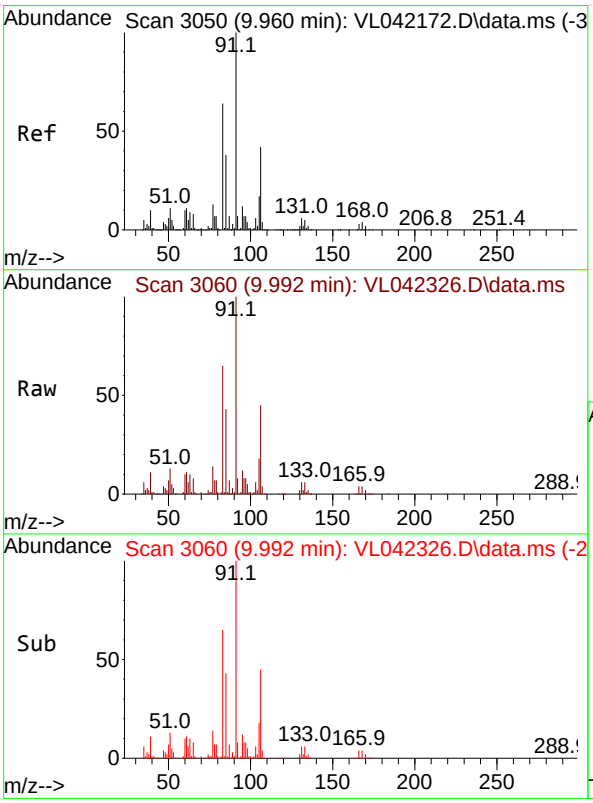

#59
m/p-Xylene
Concen: 8.372 ppbv
RT: 9.581 min Scan# 2
Delta R.T. 0.032 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 91 Resp: 488646

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 102.5 | 36.4 | 54.6# |

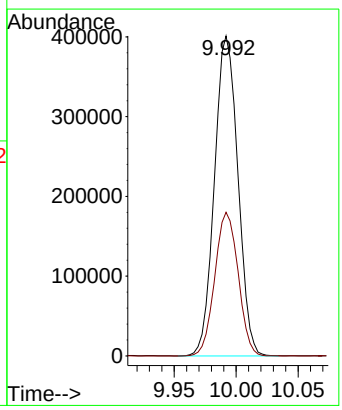


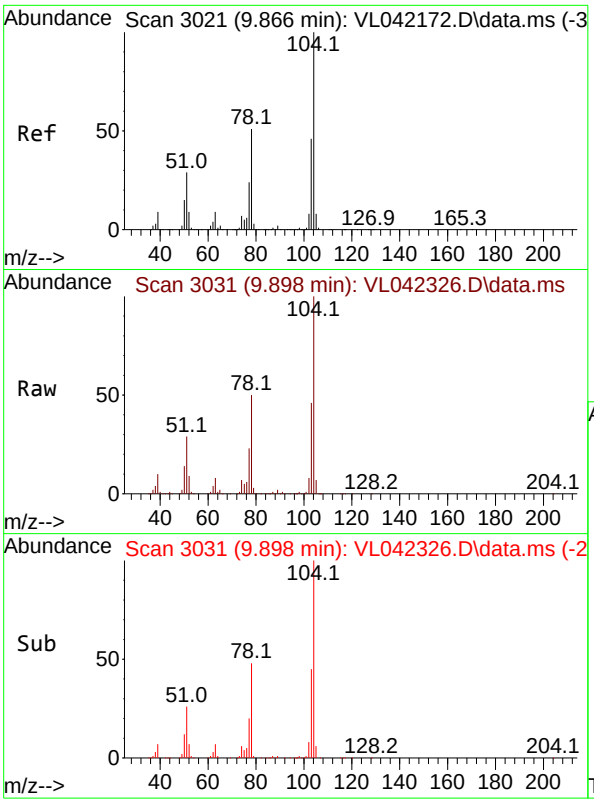




#60
o-Xylene
Concen: 9.040 ppbv
RT: 9.992 min Scan# 3060
Delta R.T. 0.032 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 91 Resp: 528896

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 44.8 | 20.8 | 62.5 |



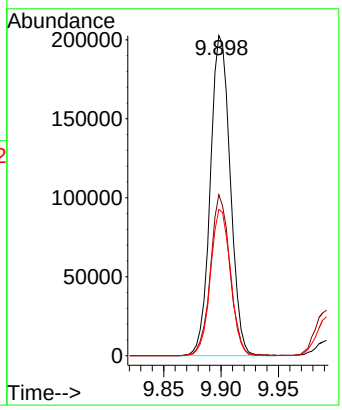


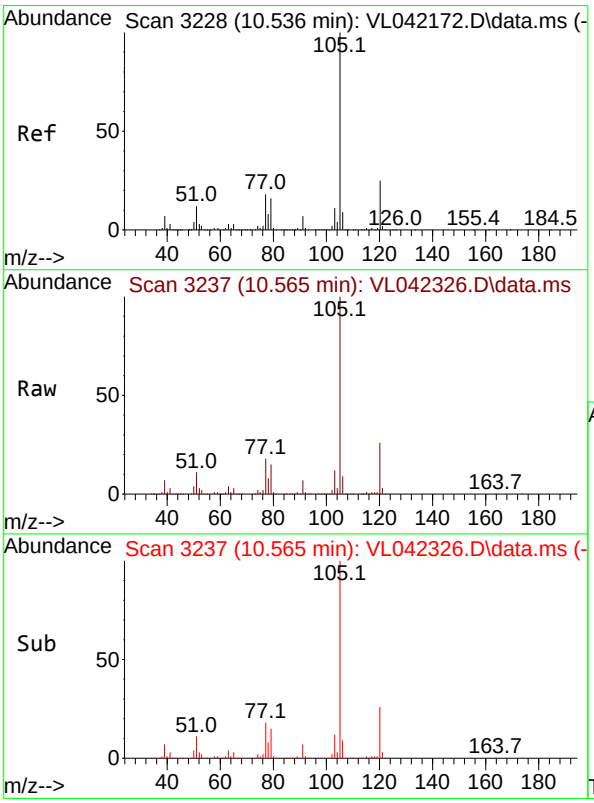

#61
Styrene
Concen: 8.474 ppbv
RT: 9.898 min Scan# 3
Delta R.T. 0.032 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:104 Resp: 245300

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 49.0 | 41.8 | 62.6 |
| 103 | 46.0 | 37.0 | 55.4 |

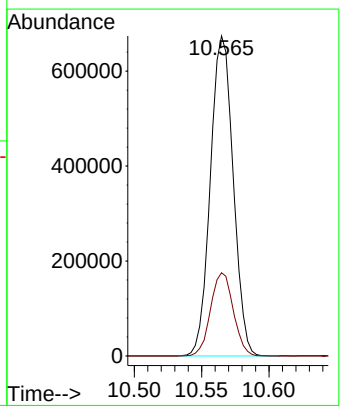


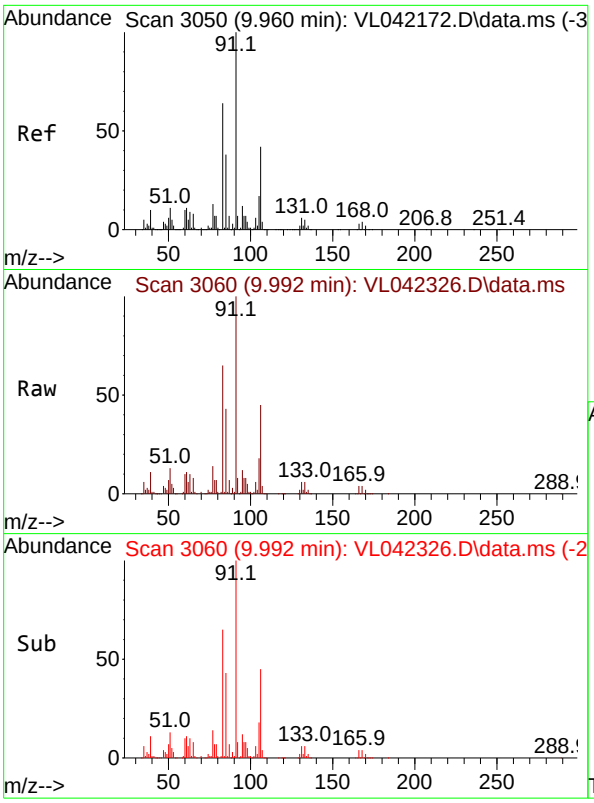




#62
Isopropylbenzene
Concen: 9.079 ppbv
RT: 10.565 min Scan# 3237
Delta R.T. 0.029 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion:105 Resp: 794408

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.9 | 19.9 | 29.9 |



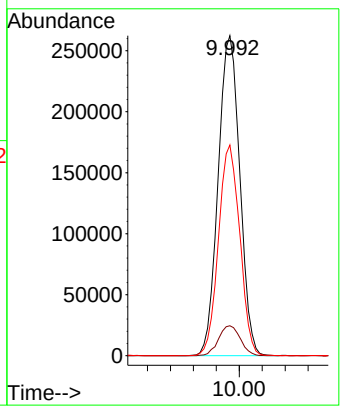


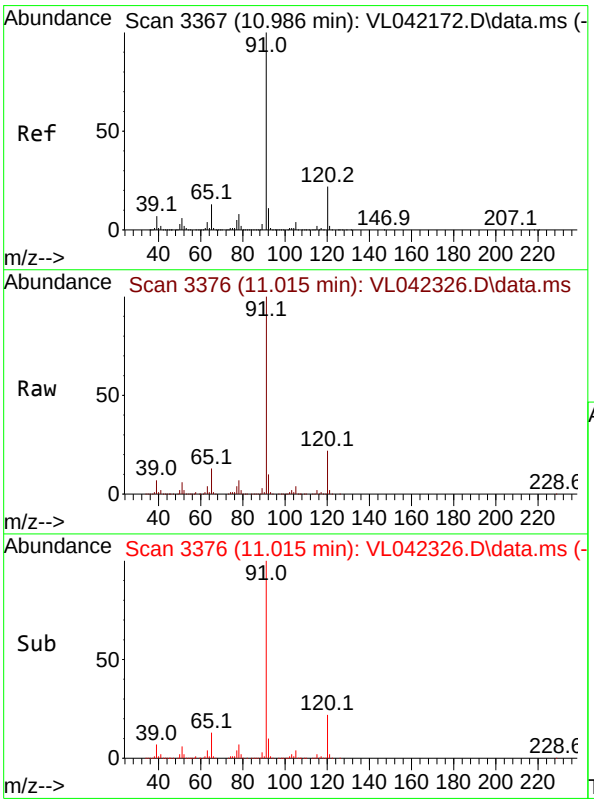

#63
1,1,2,2-Tetrachloroethane
Concen: 9.671 ppbv
RT: 9.992 min Scan# 3
Delta R.T. 0.032 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 83 Resp: 343786

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.4 | 4.8 | 14.4 |
| 85 | 64.8 | 32.5 | 97.5 |

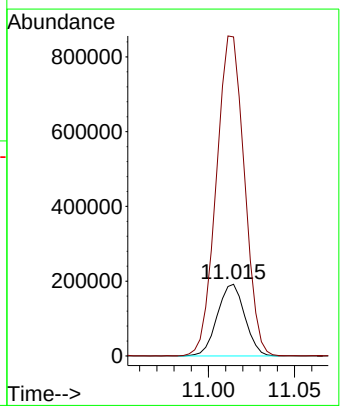


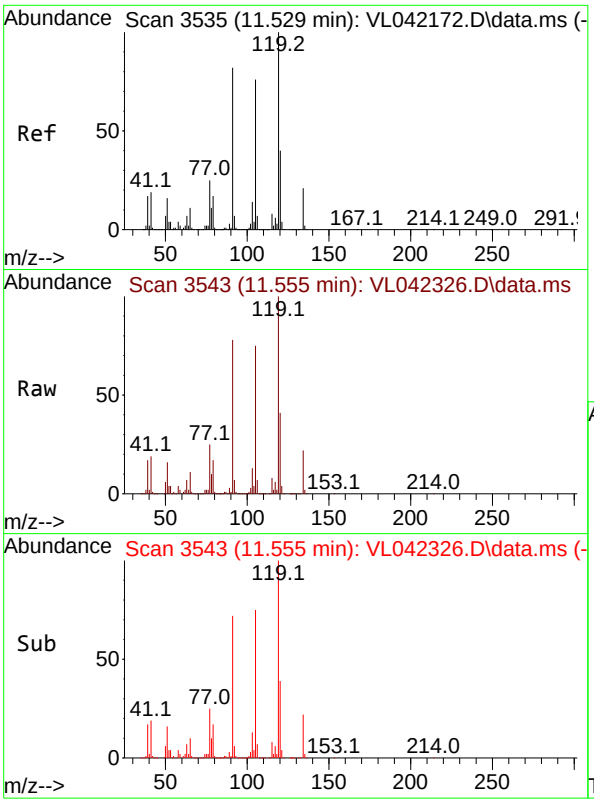




#64
n-propylbenzene
Concen: 9.452 ppbv
RT: 11.015 min Scan# 3376
Delta R.T. 0.029 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion:120 Resp: 212879

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 456.6 | 376.9 | 565.3 |



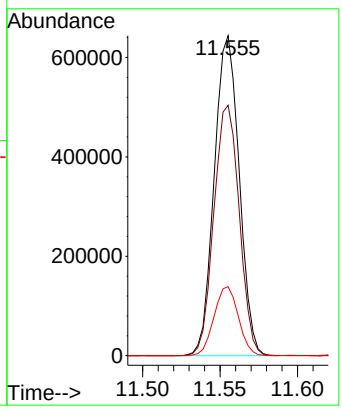


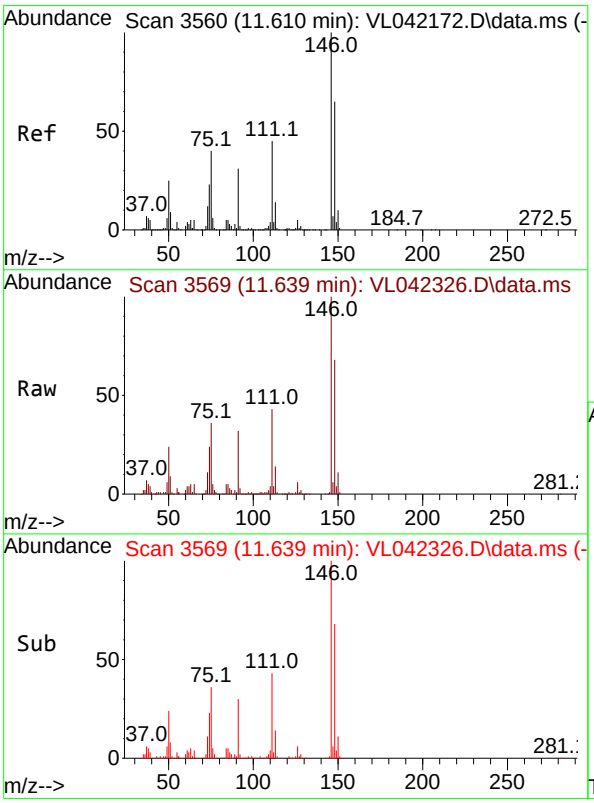

#65
tert-Butylbenzene
Concen: 8.911 ppbv
RT: 11.555 min Scan# 3
Delta R.T. 0.026 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:119 Resp: 721078

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 79.7 | 66.0 | 99.0 |
| 134 | 21.1 | 16.7 | 25.1 |

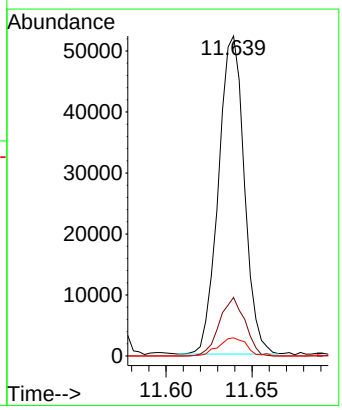


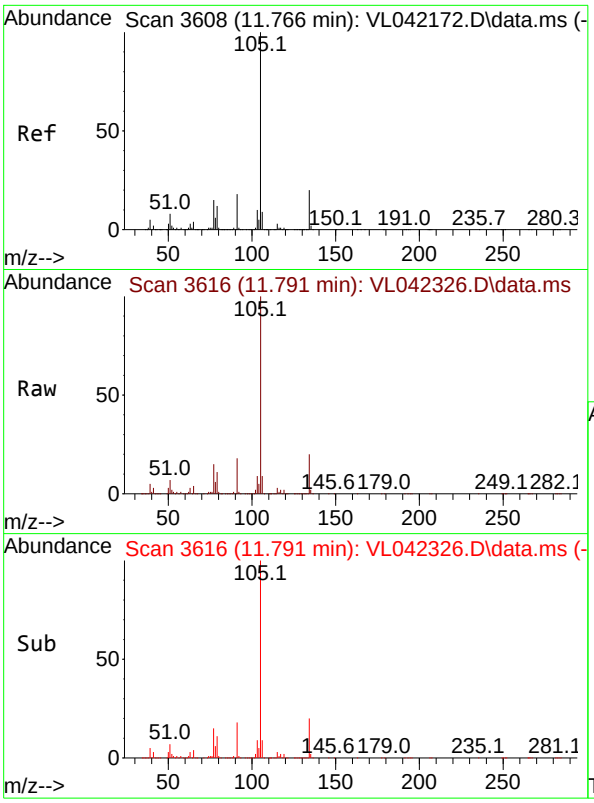




#66
Benzyl Chloride
Concen: 6.339 ppbv
RT: 11.639 min Scan# 3569
Delta R.T. 0.029 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 91 Resp: 54427

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 18.2 | 13.8 | 20.6 |
| 128 | 6.3 | 4.5 | 6.7 |



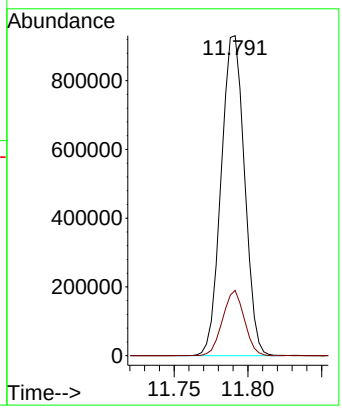


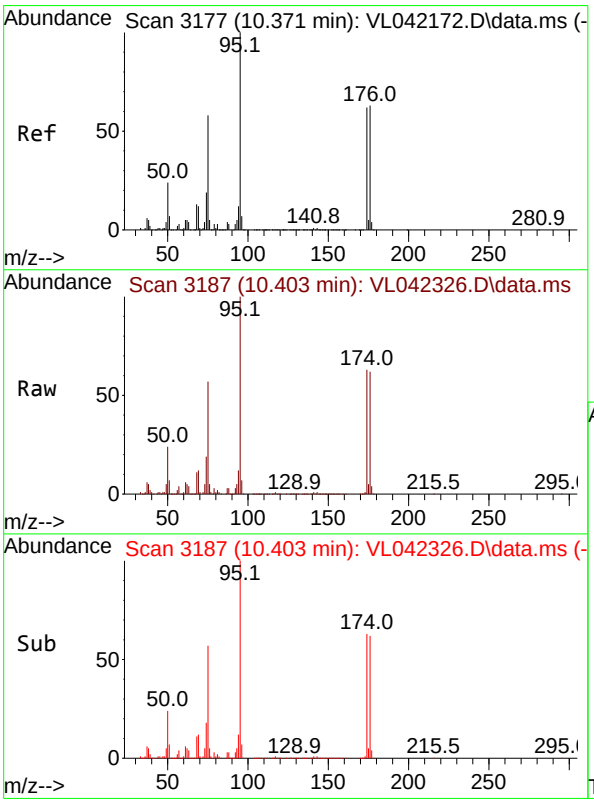

#67
sec-Butylbenzene
Concen: 9.123 ppbv
RT: 11.791 min Scan# 3
Delta R.T. 0.026 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:105 Resp: 1026079

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.0 | 15.5 | 23.3 |

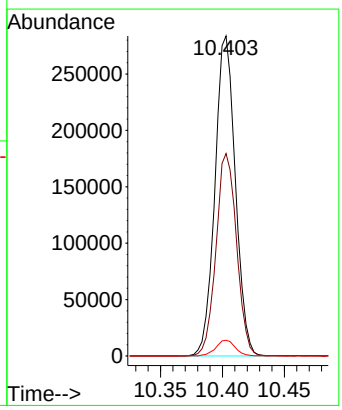


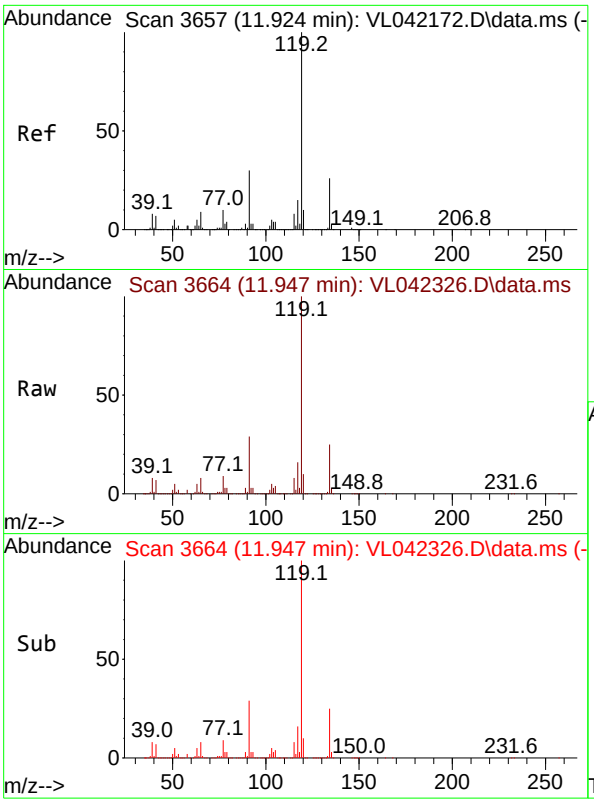




#68
1-Bromo-4-Fluorobenzene
Concen: 9.646 ppbv
RT: 10.403 min Scan# 3187
Delta R.T. 0.032 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 95 Resp: 325960

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 63.6 | 50.6 | 76.0 |
| 175 | 4.7 | 3.8 | 5.6 |



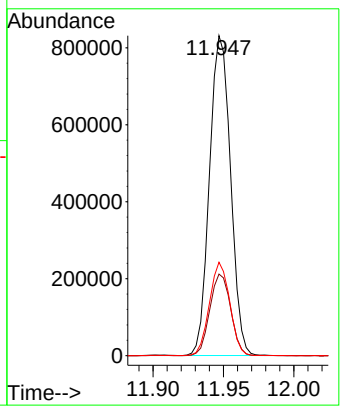


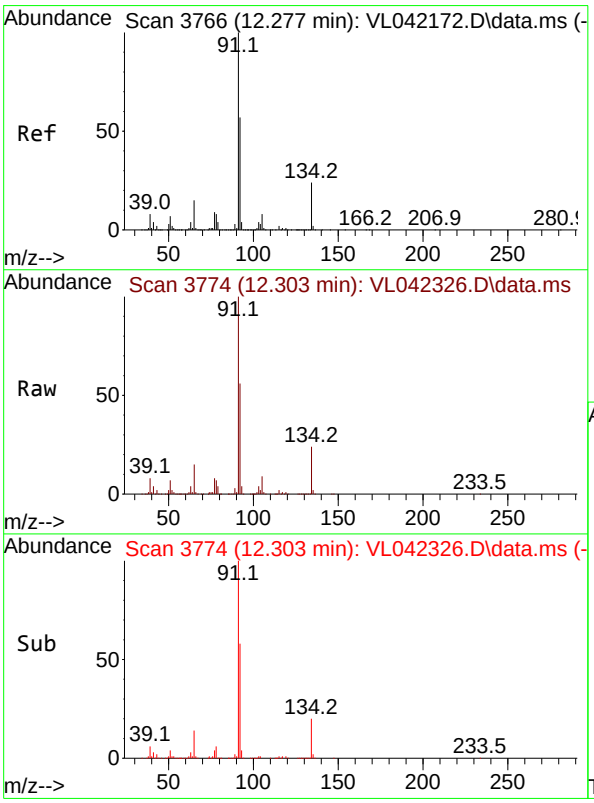

#69
p-Isopropyltoluene
Concen: 8.935 ppbv
RT: 11.947 min Scan# 3
Delta R.T. 0.023 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:119 Resp: 865385

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.4 | 20.4 | 30.6 |
| 91 | 28.4 | 23.7 | 35.5 |

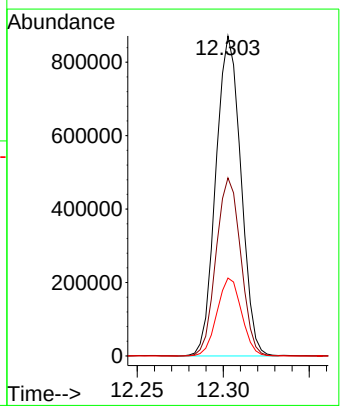


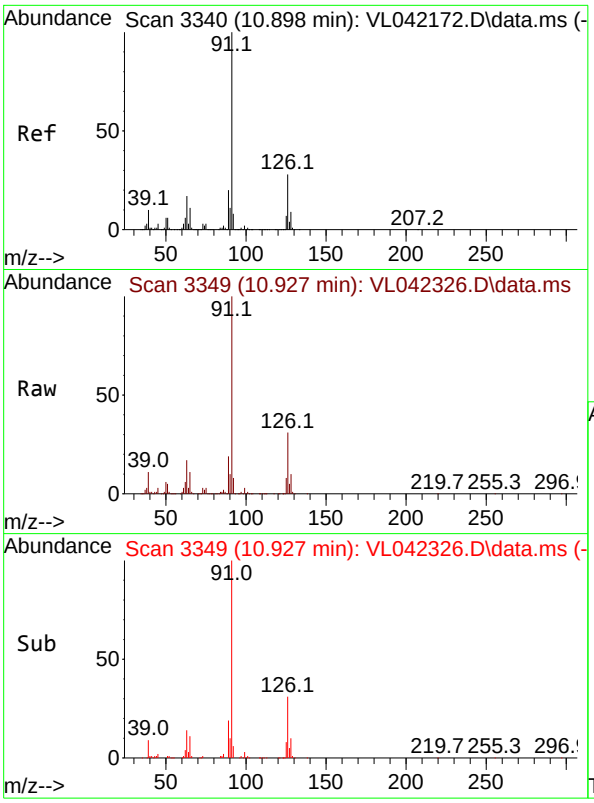




#70
n-Butylbenzene
Concen: 8.928 ppbv
RT: 12.303 min Scan# 3774
Delta R.T. 0.026 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion: 91 Resp: 884265

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 55.0 | 44.9 | 67.3 |
| 134 | 23.8 | 19.2 | 28.8 |



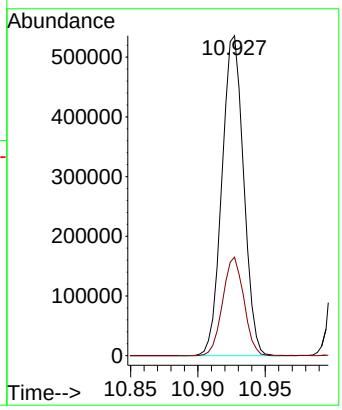


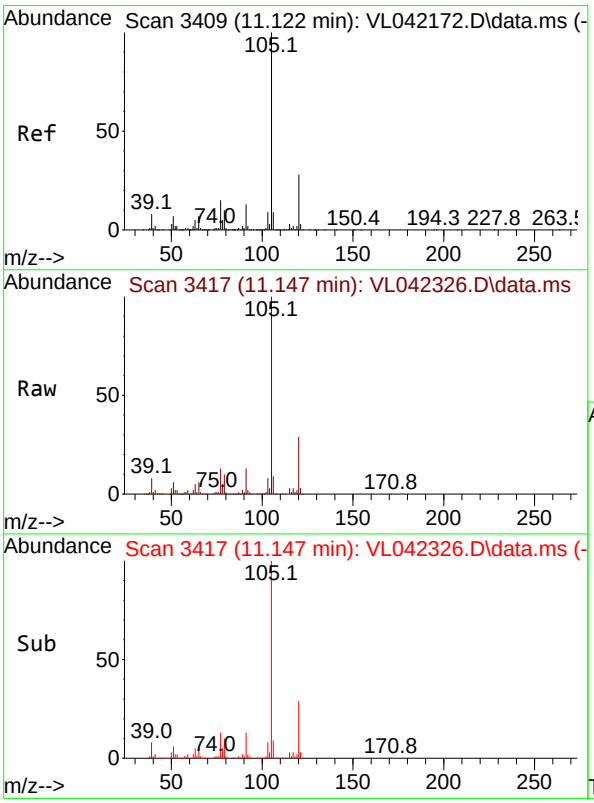

#71
2-Chlorotoluene
Concen: 8.830 ppbv
RT: 10.927 min Scan# 3
Delta R.T. 0.029 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 91 Resp: 599592

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 30.1 | 11.6 | 46.4 |

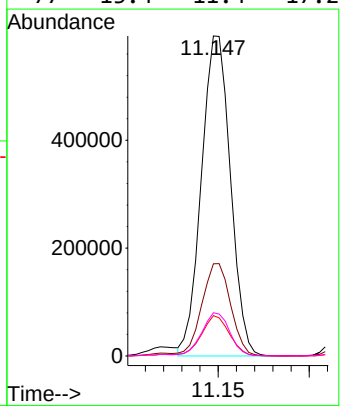


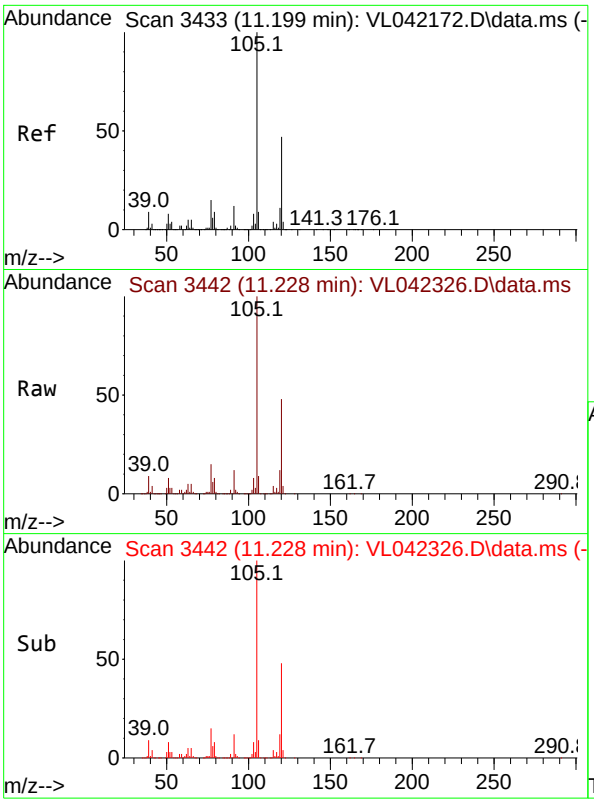




#72
4-Ethyltoluene
Concen: 9.029 ppbv
RT: 11.147 min Scan# 3417
Delta R.T. 0.026 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion:105 Resp: 657765

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 29.5 | 23.4 | 35.0 |
| 91 | 12.6 | 10.3 | 15.5 |
| 77 | 13.4 | 11.4 | 17.2 |



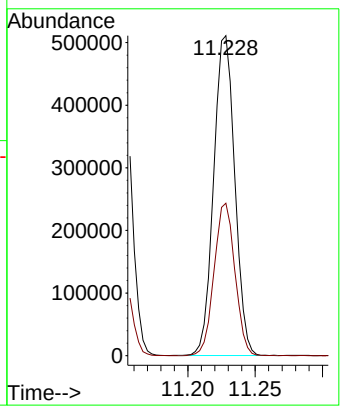


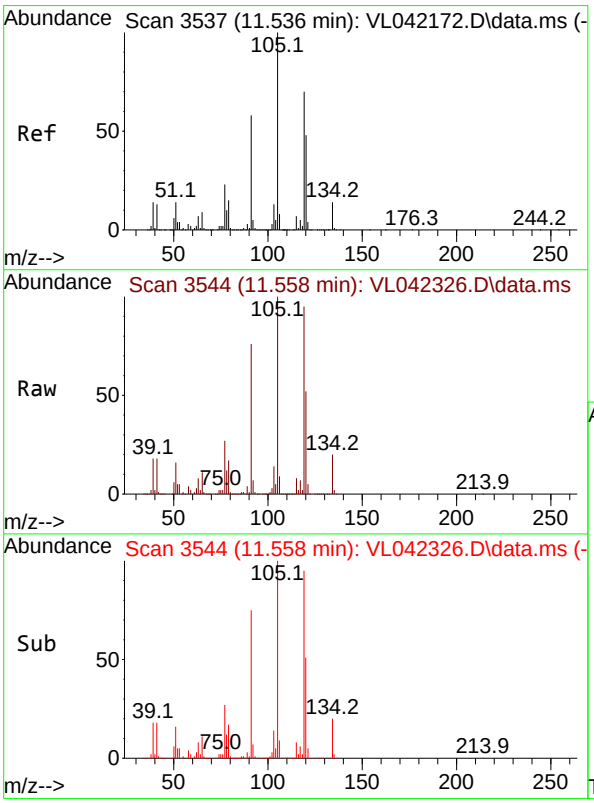

#73
1,3,5-Trimethylbenzene
Concen: 8.764 ppbv
RT: 11.228 min Scan# 34
Delta R.T. 0.029 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:105 Resp: 557593

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.7 | 37.4 | 56.0 |

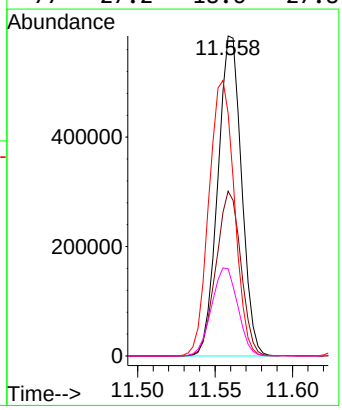


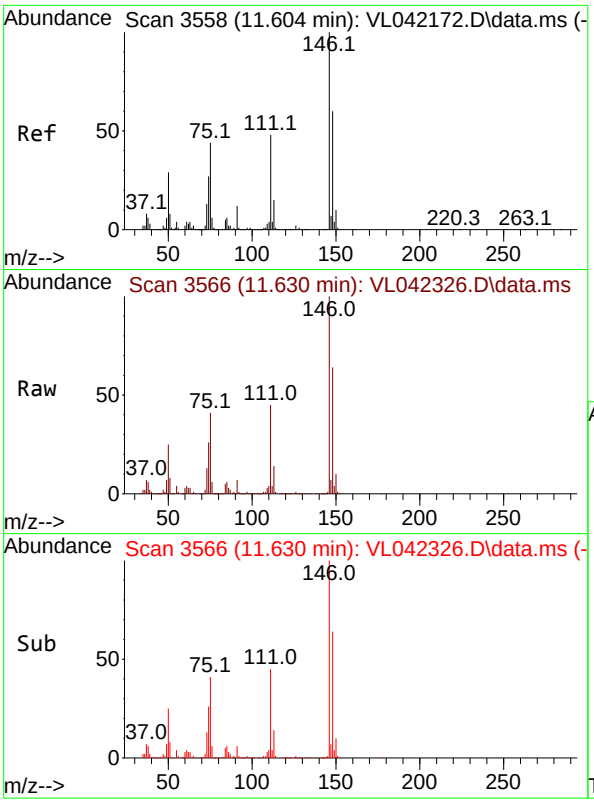




#74
1,2,4-Trimethylbenzene
Concen: 8.507 ppbv
RT: 11.558 min Scan# 3544
Delta R.T. 0.023 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion:105 Resp: 623563

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 51.5 | 38.6 | 58.0 |
| 91 | 75.8 | 46.2 | 69.2# |
| 77 | 27.2 | 18.6 | 27.8 |



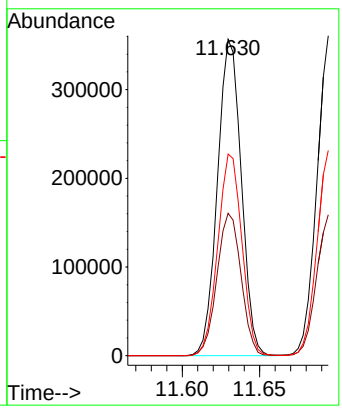


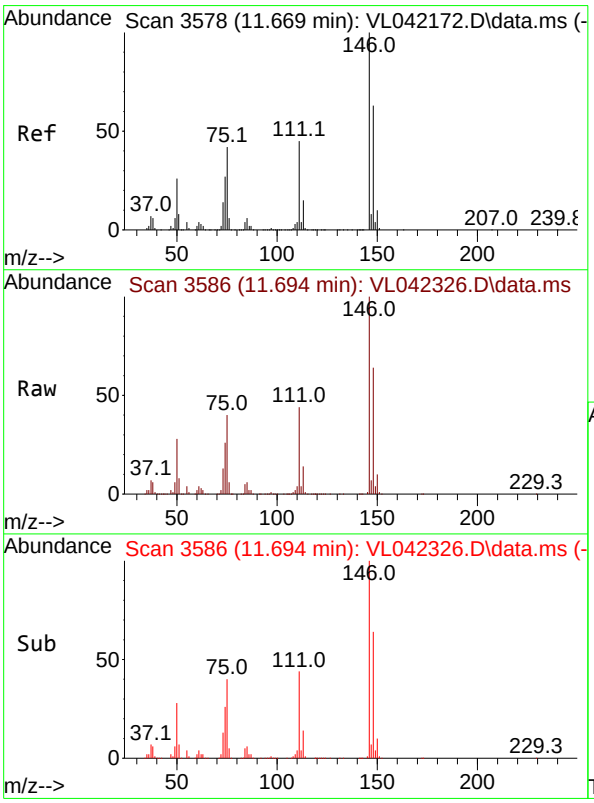

#75
1,3-Dichlorobenzene
Concen: 9.492 ppbv
RT: 11.630 min Scan# 3
Delta R.T. 0.026 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:146 Resp: 381572

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 45.6 | 23.8 | 71.2 |
| 148 | 64.4 | 31.9 | 95.9 |

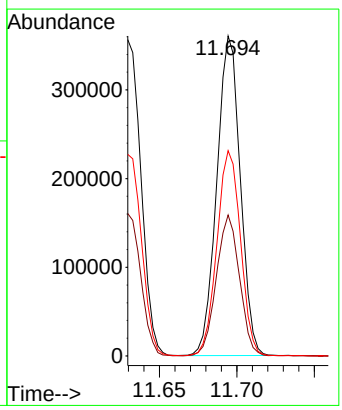


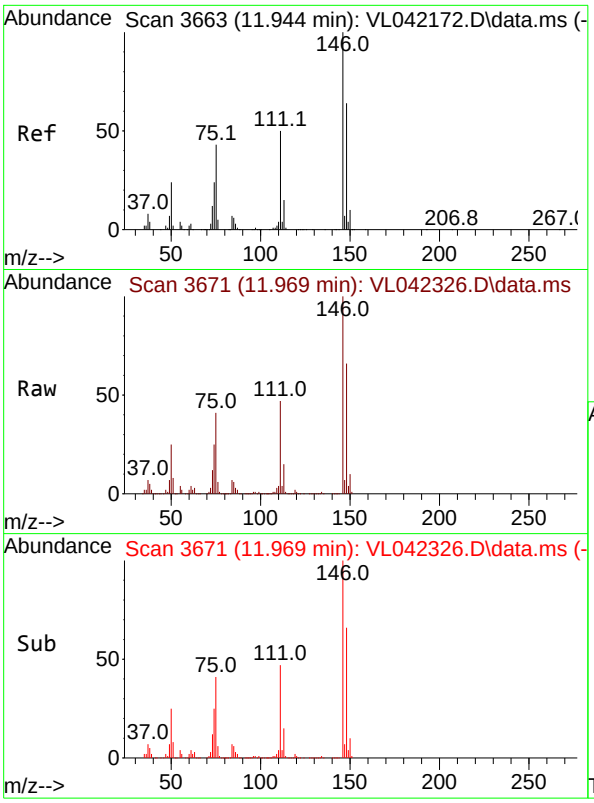




#76
1,4-Dichlorobenzene
Concen: 9.499 ppbv
RT: 11.694 min Scan# 3586
Delta R.T. 0.026 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion:146 Resp: 380035

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.7 | 23.0 | 69.0 |
| 148 | 64.7 | 31.9 | 95.7 |



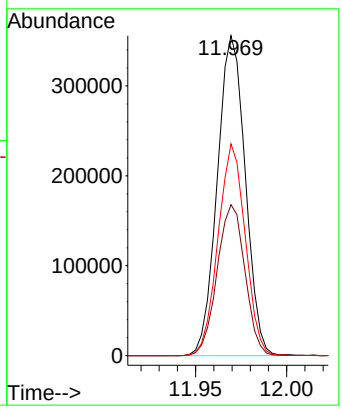


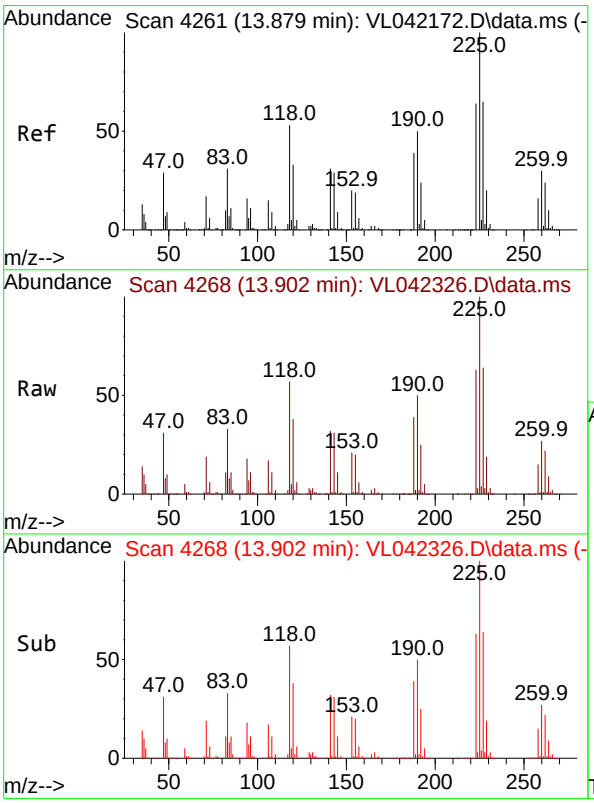

#77
1,2-Dichlorobenzene
Concen: 9.706 ppbv
RT: 11.969 min Scan# 3
Delta R.T. 0.026 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:146 Resp: 379896

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 47.0 | 24.8 | 74.3 |
| 148 | 64.5 | 31.6 | 94.8 |

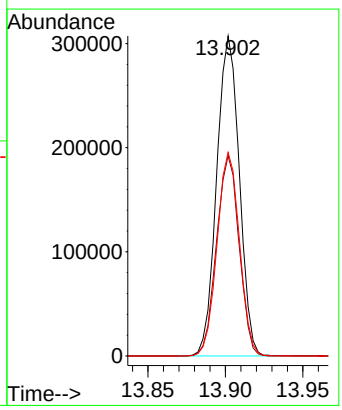


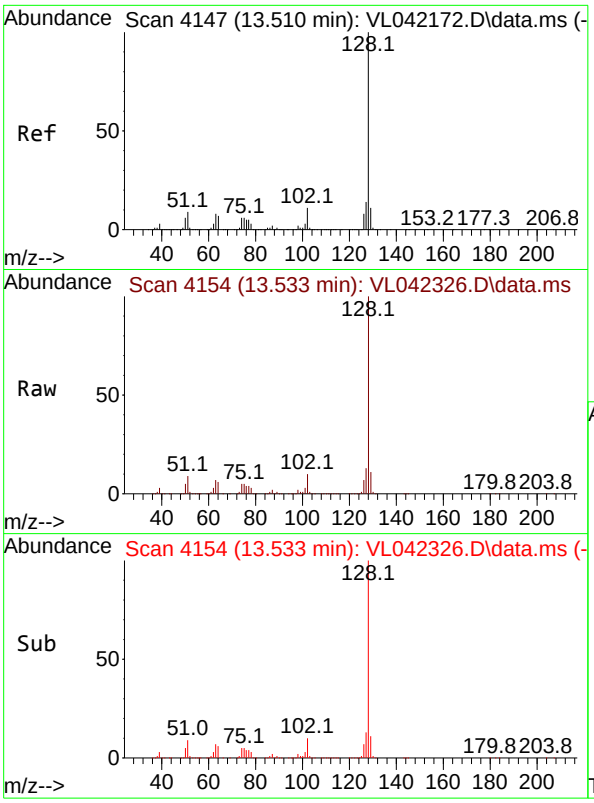




#78
Hexachloro-1,3-Butadiene
Concen: 7.828 ppbv
RT: 13.902 min Scan# 4268
Delta R.T. 0.023 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion:225 Resp: 311900

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.4 | 50.6 | 76.0 |
| 227 | 63.0 | 51.2 | 76.8 |



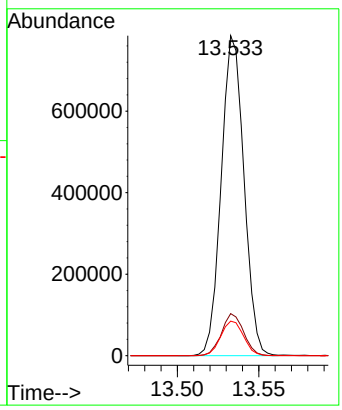


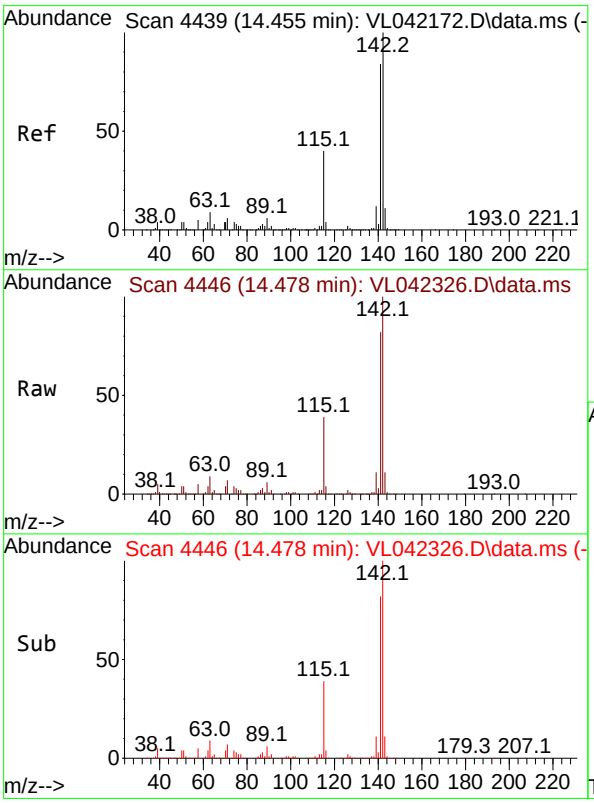

#79
Naphthalene
Concen: 9.490 ppbv
RT: 13.533 min Scan# 4
Delta R.T. 0.023 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:128 Resp: 760876

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.2 | 10.8 | 16.2 |
| 129 | 10.8 | 9.0 | 13.4 |

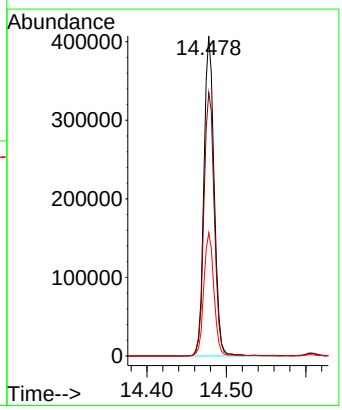


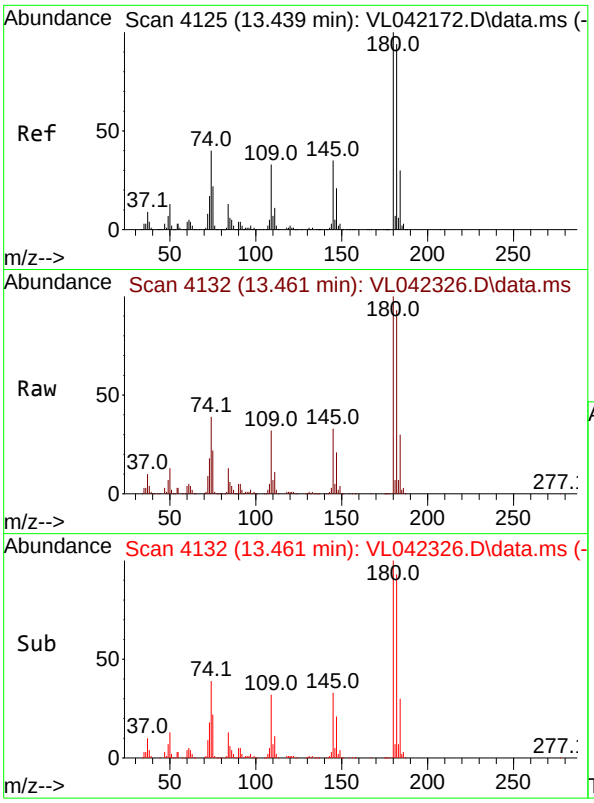




#80
Naphthalene,2-methyl-
Concen: 9.294 ppbv
RT: 14.478 min Scan# 4446
Delta R.T. 0.023 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

Tgt Ion:142 Resp: 365398

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 84.6 | 66.3 | 99.5 |
| 115 | 38.5 | 31.6 | 47.4 |



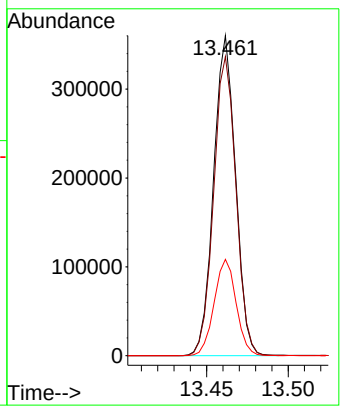



#81
1,2,4-Trichlorobenzene
Concen: 9.114 ppbv
RT: 13.461 min Scan# 4
Delta R.T. 0.023 min
Lab File: VL042326.D
Acq: 15 Apr 2025 11:30

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:180 Resp: 337032

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.1 | 75.1 | 112.7 |
| 184 | 30.2 | 24.4 | 36.6 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
Data File : VL042328.D
Acq On : 15 Apr 2025 12:54
Operator : SY/MD
Sample : VL0415ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

Quant Time: Apr 16 01:30:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.810 | 49 | 171986 | 10.000 | ppbv | 0.03 |
| 33) 1,4-Difluorobenzene | 3.994 | 114 | 444595 | 10.000 | ppbv | 0.04 |
| 55) Chlorobenzene-d5 | 8.917 | 117 | 399604 | 10.000 | ppbv | 0.04 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.406 | 95 | 318902 | 9.718 | ppbv | 0.04 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 97.200% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.509 | 85 | 214241 | 8.437 | ppbv | 99 |
| 3) Chlorodifluoromethane | 1.486 | 51 | 234966 | 9.058 | ppbv | 97 |
| 4) Chloromethane | 1.541 | 50 | 88230 | 8.502 | ppbv | 98 |
| 5) Vinyl Chloride | 1.589 | 62 | 82221 | 7.476 | ppbv | 94 |
| 6) Bromomethane | 1.680 | 94 | 36050 | 7.665 | ppbv | 100 |
| 7) Chloroethane | 1.716 | 64 | 33039 | 7.931 | ppbv | 97 |
| 8) Dichlorotetrafluoroethane | 1.564 | 85 | 178173 | 8.239 | ppbv | 95 |
| 9) Propene | 1.492 | 41 | 94136 | 7.917 | ppbv | 99 |
| 10) Heptane | 5.027 | 43 | 267288 | 8.451 | ppbv | 99 |
| 11) Trichlorofluoromethane | 1.890 | 101 | 201665 | 8.162 | ppbv | 99 |
| 12) 1,1,2-Trichlorotrifluo... | 2.156 | 101 | 154306 | 7.598 | ppbv | 98 |
| 13) Ethanol | 1.732 | 45 | 4407 | 3.921 | ppbv | 97 |
| 14) Bromoethene | 1.793 | 108 | 57635 | 7.408 | ppbv | 99 |
| 15) Acetone | 1.848 | 43 | 178724 | 7.430 | ppbv | 96 |
| 16) 1,3-Butadiene | 1.619 | 39 | 89479 | 7.617 | ppbv | 96 |
| 17) tert-Butyl alcohol | 2.055 | 59 | 202421 | 6.757 | ppbv | 99 |
| 18) 1,1-Dichloroethene | 2.049 | 96 | 69013 | 7.269 | ppbv | 97 |
| 19) Isopropyl Alcohol | 1.900 | 45 | 100289 | 7.390 | ppbv | 97 |
| 20) Methylene Chloride | 2.075 | 84 | 60054 | 6.704 | ppbv | 88 |
| 21) Allyl Chloride | 2.111 | 41 | 127800 | 7.534 | ppbv | 98 |
| 22) trans-1,2-Dichloroethene | 2.360 | 96 | 78991 | 7.198 | ppbv | 98 |
| 23) Vinyl Acetate | 2.483 | 43 | 64777 | 6.222 | ppbv | 98 |
| 24) 1,1-Dichloroethane | 2.428 | 63 | 168373 | 8.277 | ppbv | 99 |
| 25) Ethyl Acetate | 2.861 | 43 | 545140 | 8.732 | ppbv | 99 |
| 26) Hexane | 2.848 | 57 | 205629 | 8.528 | ppbv | 97 |
| 27) Carbon Disulfide | 2.166 | 76 | 191388 | 7.402 | ppbv | 99 |
| 28) Methyl tert-Butyl Ether | 2.460 | 73 | 107667 | 7.172 | ppbv | 96 |
| 29) Chloroform | 2.874 | 83 | 309262 | 8.763 | ppbv | 100 |
| 30) Cyclohexane | 3.891 | 84 | 165914 | 7.924 | ppbv | 98 |
| 31) cis-1,2-Dichloroethene | 2.742 | 61 | 197651 | 8.074 | ppbv | 99 |
| 32) 1,1,1-Trichloroethane | 3.395 | 97 | 304143 | 7.528 | ppbv | 97 |
| 34) 2-Butanone | 2.580 | 43 | 300576 | 9.323 | ppbv | 98 |
| 35) Carbon Tetrachloride | 3.797 | 117 | 314849 | 9.065 | ppbv | 99 |
| 36) Benzene | 3.690 | 78 | 407959 | 9.256 | ppbv | 98 |
| 37) 1,2-Dichloroethane | 3.247 | 62 | 235609 | 9.337 | ppbv | 99 |
| 38) Trichloroethene | 4.590 | 130 | 164664 | 8.954 | ppbv | 96 |
| 39) 1,2-Dichloropropane | 4.354 | 63 | 149260 | 9.299 | ppbv | 97 |
| 40) 1,4-Dioxane | 4.625 | 88 | 68773 | 8.072 | ppbv # | 95 |
| 41) Tetrahydrofuran | 3.082 | 42 | 173776 | 9.361 | ppbv | 95 |
| 42) Bromodichloromethane | 4.532 | 83 | 327497 | 9.414 | ppbv | 99 |
| 43) Methyl Methacrylate | 4.930 | 69 | 151531 | 8.121 | ppbv | 98 |
| 44) 2,2,4-Trimethylpentane | 4.680 | 57 | 707832 | 9.503 | ppbv | 98 |
| 45) t-1,3-Dichloropropene | 6.470 | 75 | 143714 | 7.179 | ppbv | 91 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
Data File : VL042328.D
Acq On : 15 Apr 2025 12:54
Operator : SY/MD
Sample : VL0415ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

Quant Time: Apr 16 01:30:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.658 | 75 | 192419 | 7.841 | ppbv | | 96 |
| 47) 1,1,2-Trichloroethane | 6.635 | 97 | 163251 | 9.621 | ppbv | | 98 |
| 48) Dibromochloromethane | 7.428 | 129 | 266192 | 9.256 | ppbv | | 100 |
| 49) Bromoform | 9.519 | 173 | 236686 | 9.168 | ppbv | | 99 |
| 50) 4-Methyl-2-Pentanone | 5.807 | 43 | 429988 | 8.416 | ppbv | | 95 |
| 51) 2-Hexanone | 7.480 | 43 | 344172 | 8.203 | ppbv | # | 96 |
| 52) Tetrachloroethene | 8.263 | 164 | 139845 | 8.000 | ppbv | | 95 |
| 53) Toluene | 6.978 | 91 | 447178 | 8.559 | ppbv | | 99 |
| 54) 1,2-Dibromoethane | 7.694 | 107 | 214982 | 9.089 | ppbv | | 98 |
| 56) 1,1,1,2-Tetrachloroethane | 8.959 | 131 | 216770 | 9.855 | ppbv | | 98 |
| 57) Chlorobenzene | 8.956 | 112 | 369132 | 9.739 | ppbv | | 95 |
| 58) Ethyl Benzene | 9.390 | 91 | 618669 | 8.716 | ppbv | | 100 |
| 59) m/p-Xylene | 9.584 | 91 | 510187 | 9.001 | ppbv | # | 21 |
| 60) o-Xylene | 9.995 | 91 | 517471 | 9.107 | ppbv | | 96 |
| 61) Styrene | 9.904 | 104 | 229601 | 8.168 | ppbv | | 97 |
| 62) Isopropylbenzene | 10.568 | 105 | 785673 | 9.247 | ppbv | | 99 |
| 63) 1,1,2,2-Tetrachloroethane | 9.995 | 83 | 351308 | 10.176 | ppbv | | 99 |
| 64) n-propylbenzene | 11.018 | 120 | 210294 | 9.615 | ppbv | | 98 |
| 65) tert-Butylbenzene | 11.558 | 119 | 718948 | 9.149 | ppbv | | 97 |
| 66) Benzyl Chloride | 11.642 | 91 | 55150 | 6.614 | ppbv | | 99 |
| 67) sec-Butylbenzene | 11.795 | 105 | 1018861 | 9.328 | ppbv | | 100 |
| 69) p-Isopropyltoluene | 11.950 | 119 | 863264 | 9.179 | ppbv | | 99 |
| 70) n-Butylbenzene | 12.306 | 91 | 891883 | 9.273 | ppbv | | 99 |
| 71) 2-Chlorotoluene | 10.930 | 91 | 590408 | 8.953 | ppbv | | 99 |
| 72) 4-Ethyltoluene | 11.150 | 105 | 652962 | 9.230 | ppbv | | 98 |
| 73) 1,3,5-Trimethylbenzene | 11.231 | 105 | 559451 | 9.055 | ppbv | | 100 |
| 74) 1,2,4-Trimethylbenzene | 11.565 | 105 | 632271 | 8.883 | ppbv | | 97 |
| 75) 1,3-Dichlorobenzene | 11.633 | 146 | 381882 | 9.782 | ppbv | | 98 |
| 76) 1,4-Dichlorobenzene | 11.697 | 146 | 383116 | 9.861 | ppbv | | 98 |
| 77) 1,2-Dichlorobenzene | 11.973 | 146 | 386768 | 10.175 | ppbv | | 98 |
| 78) Hexachloro-1,3-Butadiene | 13.905 | 225 | 314860 | 8.138 | ppbv | | 100 |
| 79) Naphthalene | 13.539 | 128 | 777722 | 9.989 | ppbv | | 99 |
| 80) Naphthalene,2-methyl- | 14.481 | 142 | 375541 | 9.836 | ppbv | | 98 |
| 81) 1,2,4-Trichlorobenzene | 13.465 | 180 | 343011 | 9.551 | ppbv | | 99 |

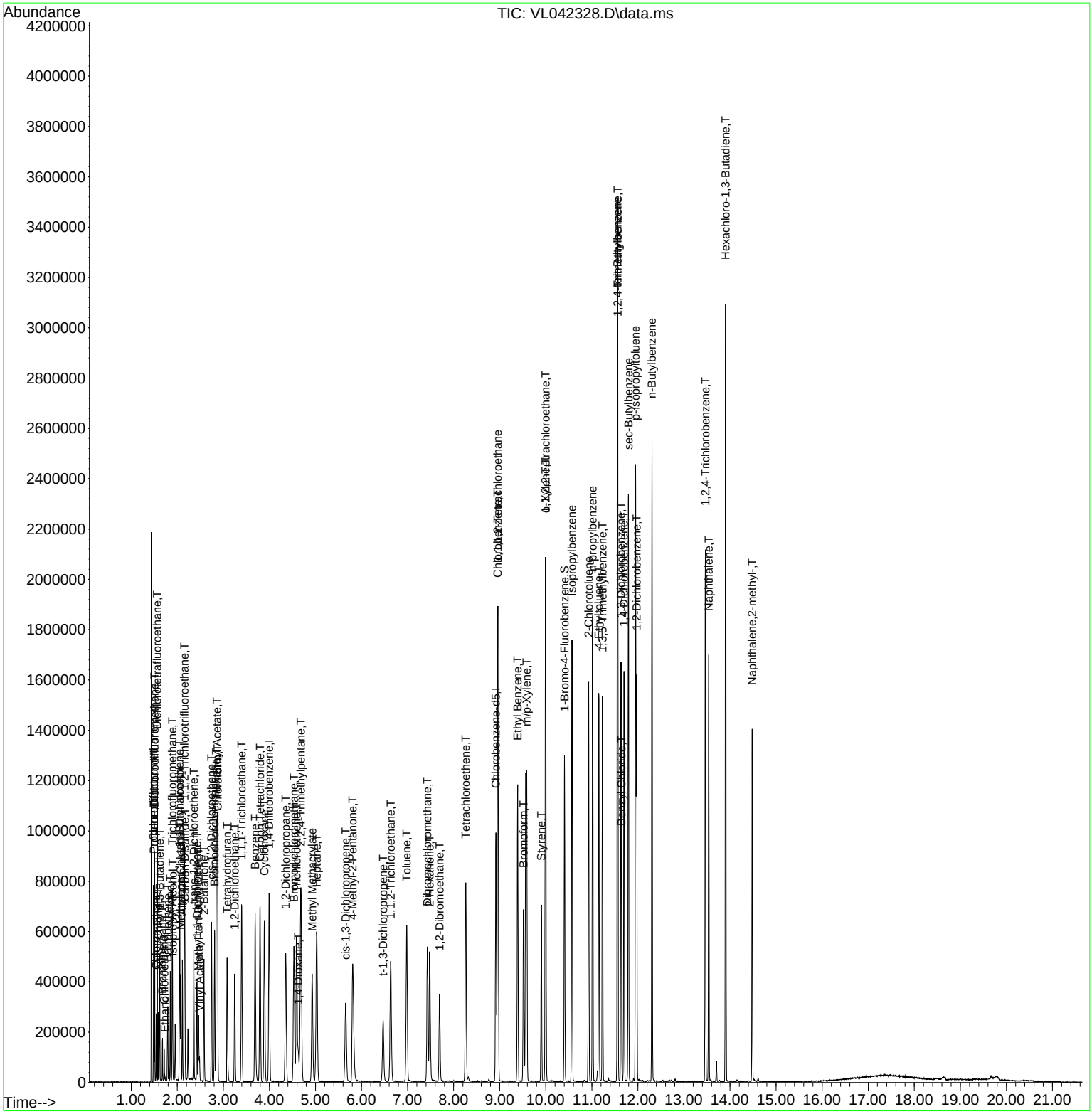
(#) = qualifier out of range (m) = manual integration (+) = signals summed

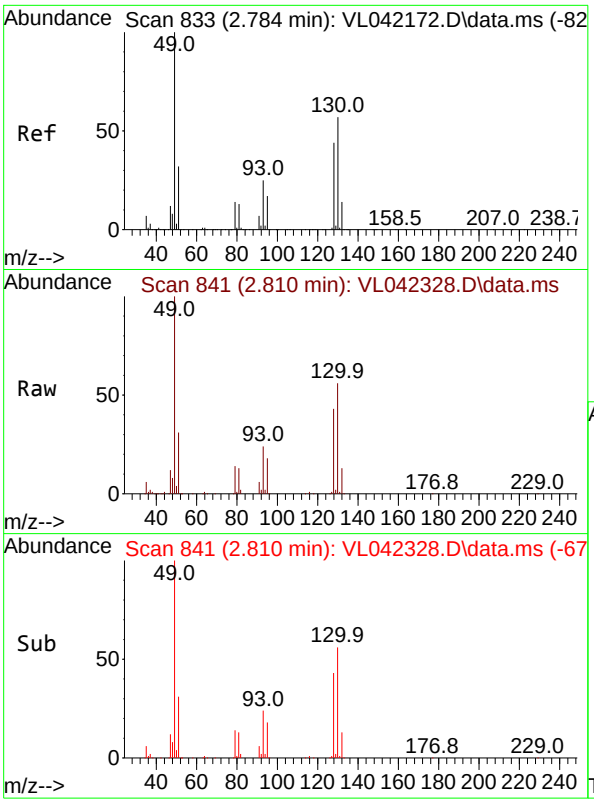
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
Data File : VL042328.D
Acq On : 15 Apr 2025 12:54
Operator : SY/MD
Sample : VL0415ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

Quant Time: Apr 16 01:30:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration



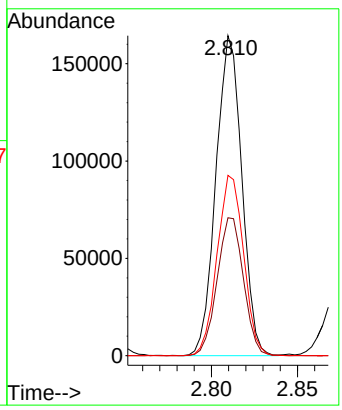


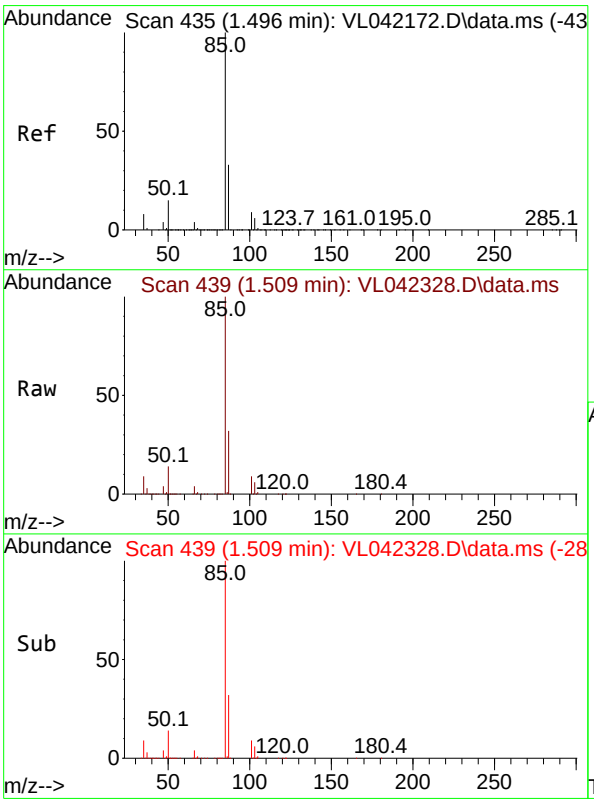

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.810 min Scan# 84
Delta R.T. 0.026 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

Tgt Ion: 49 Resp: 171986

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 43.9 | 22.9 | 68.5 |
| 130 | 57.7 | 28.8 | 86.4 |

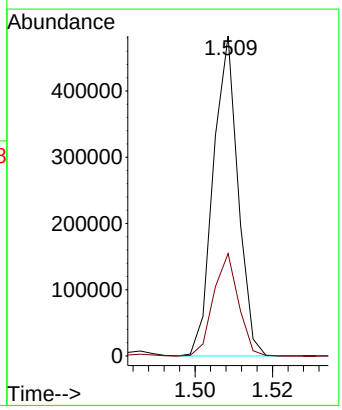


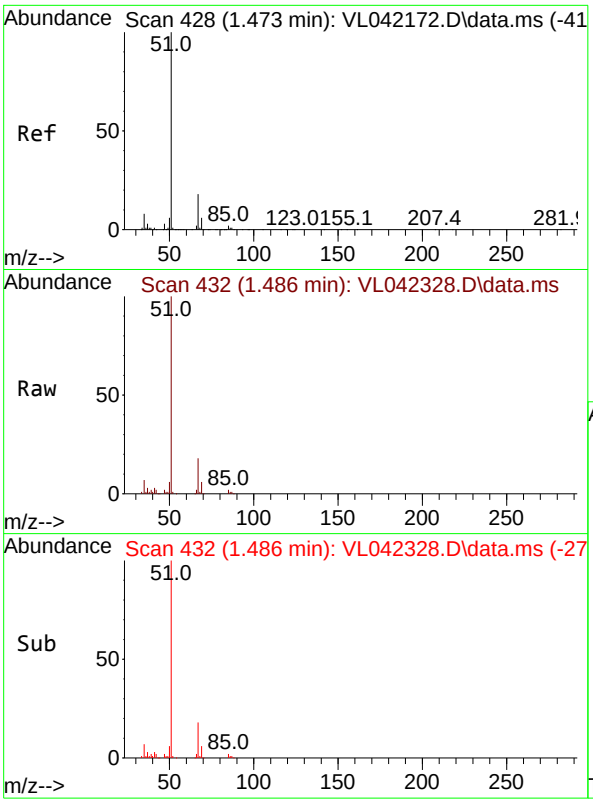




#2
Dichlorodifluoromethane
Concen: 8.437 ppbv
RT: 1.509 min Scan# 439
Delta R.T. 0.013 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 85 Resp: 214241

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.0 | 26.1 | 39.1 |



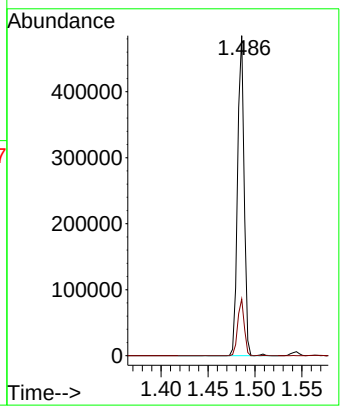


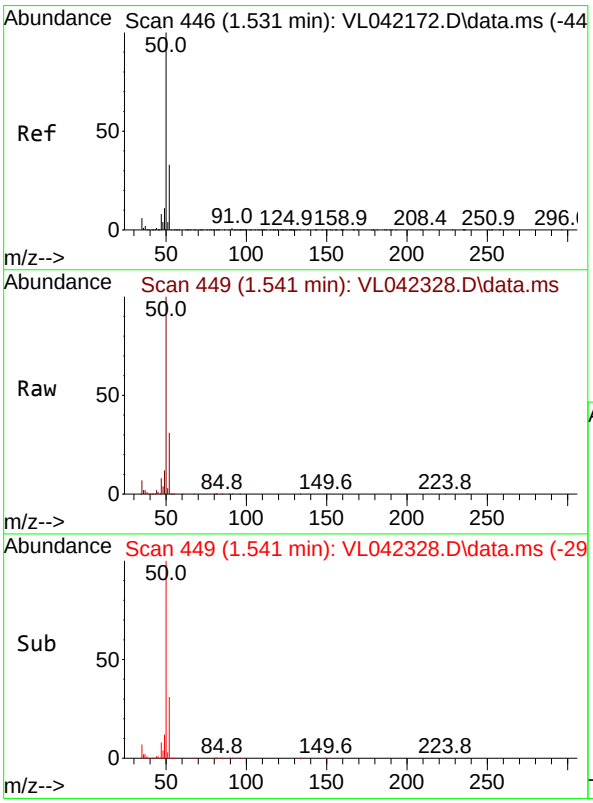

#3
Chlorodifluoromethane
Concen: 9.058 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.013 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

Tgt Ion: 51 Resp: 234966

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 17.6 | 15.0 | 22.6 |

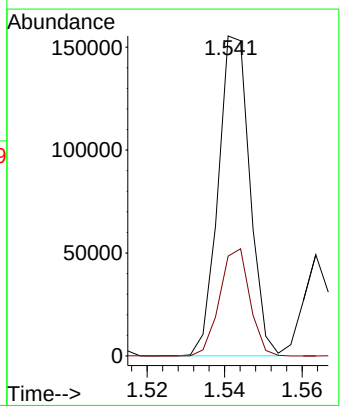


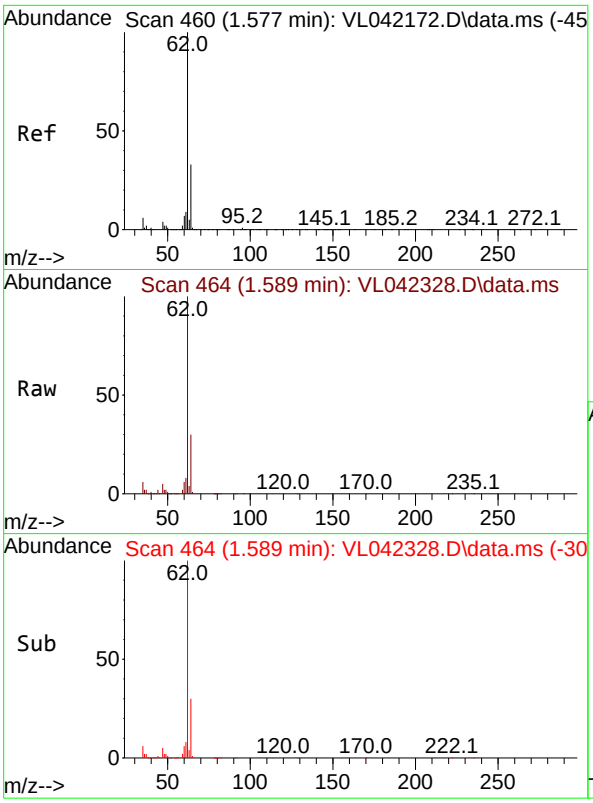




#4
Chloromethane
Concen: 8.502 ppbv
RT: 1.541 min Scan# 449
Delta R.T. 0.010 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 50 Resp: 88230

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 31.2 | 26.1 | 39.1 |



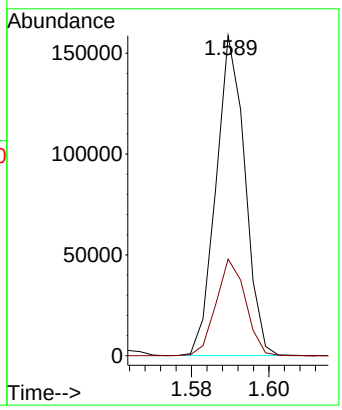


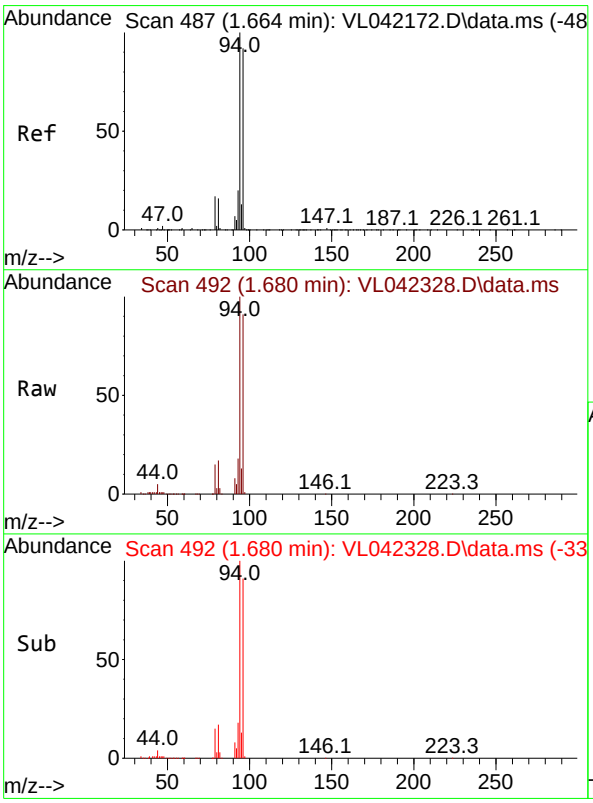

#5
Vinyl Chloride
Concen: 7.476 ppbv
RT: 1.589 min Scan# 4
Delta R.T. 0.013 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

Tgt Ion: 62 Resp: 82221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 30.2 | 26.6 | 40.0 |

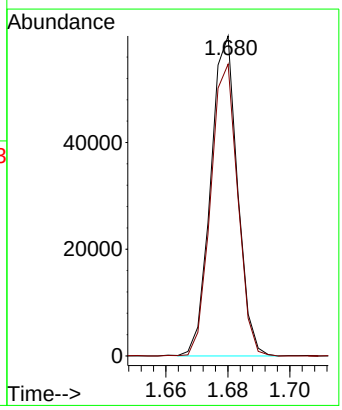


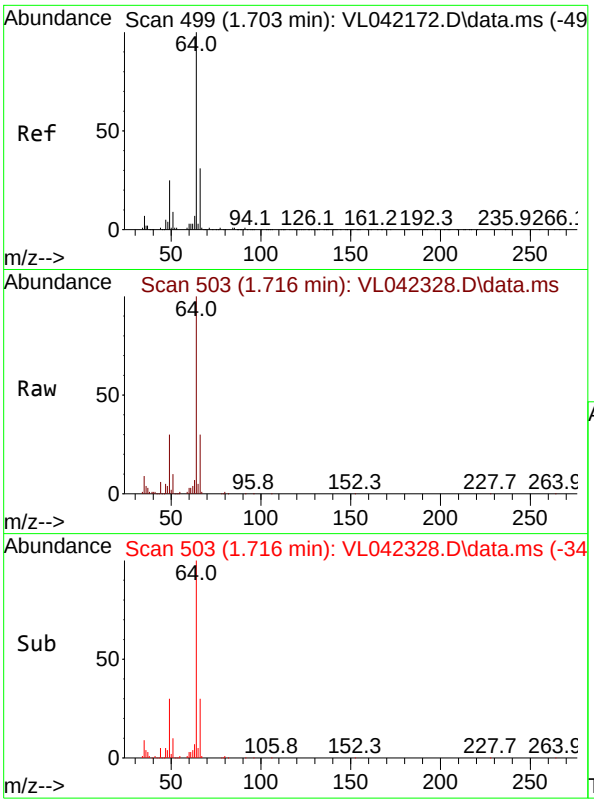




#6
Bromomethane
Concen: 7.665 ppbv
RT: 1.680 min Scan# 492
Delta R.T. 0.016 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 94 Resp: 36050

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 91.2 | 73.1 | 109.7 |



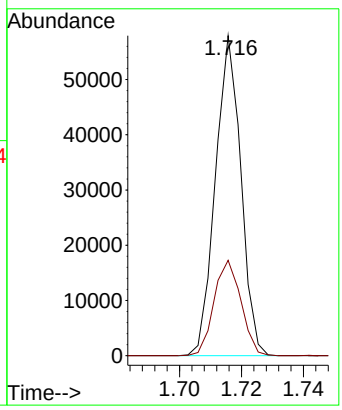


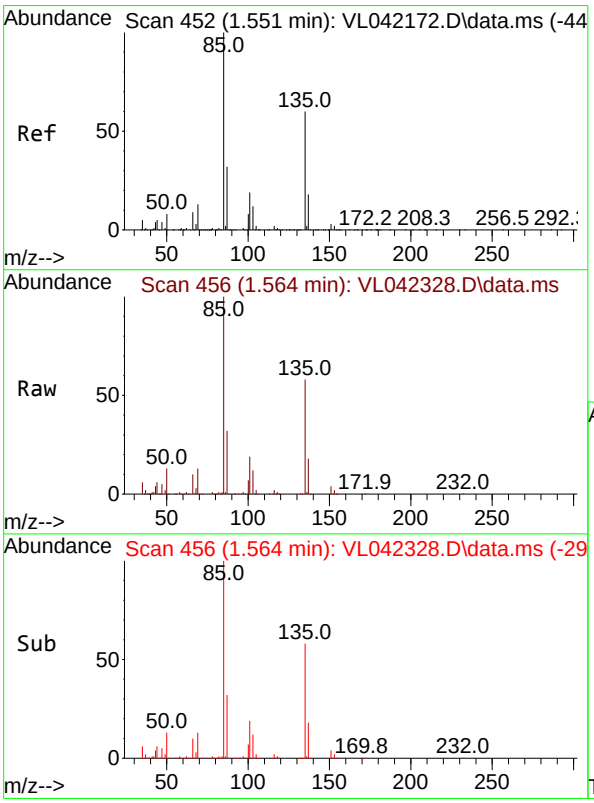

#7
Chloroethane
Concen: 7.931 ppbv
RT: 1.716 min Scan# 5
Delta R.T. 0.013 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

Tgt Ion: 64 Resp: 33039

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 29.8 | 25.2 | 37.8 |

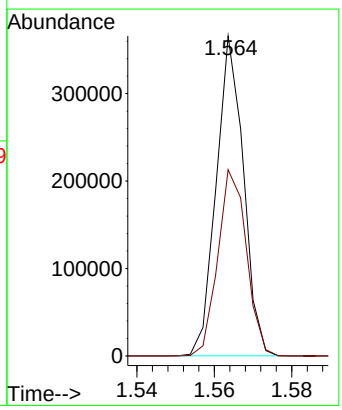


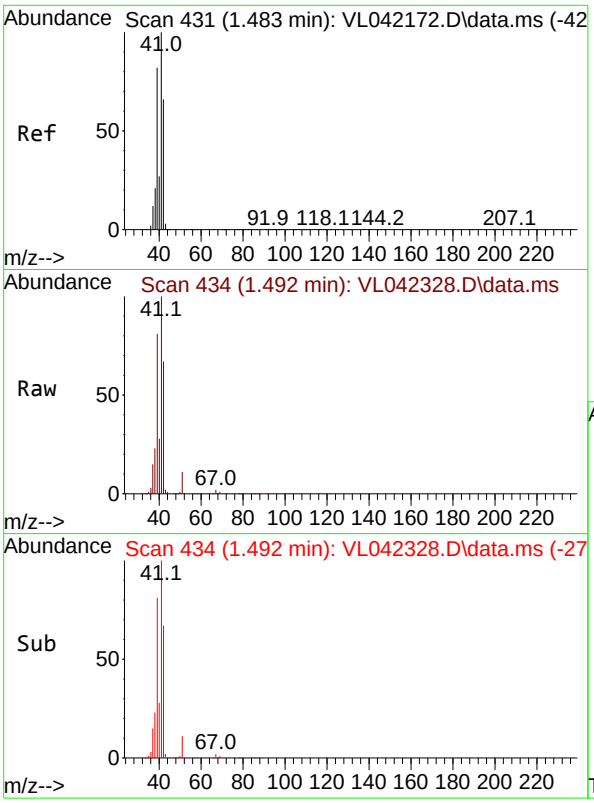




#8
Dichlorotetrafluoroethane
Concen: 8.239 ppbv
RT: 1.564 min Scan# 456
Delta R.T. 0.013 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 85 Resp: 178173

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 61.3 | 52.4 | 78.6 |



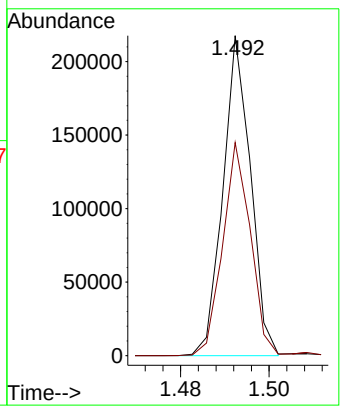


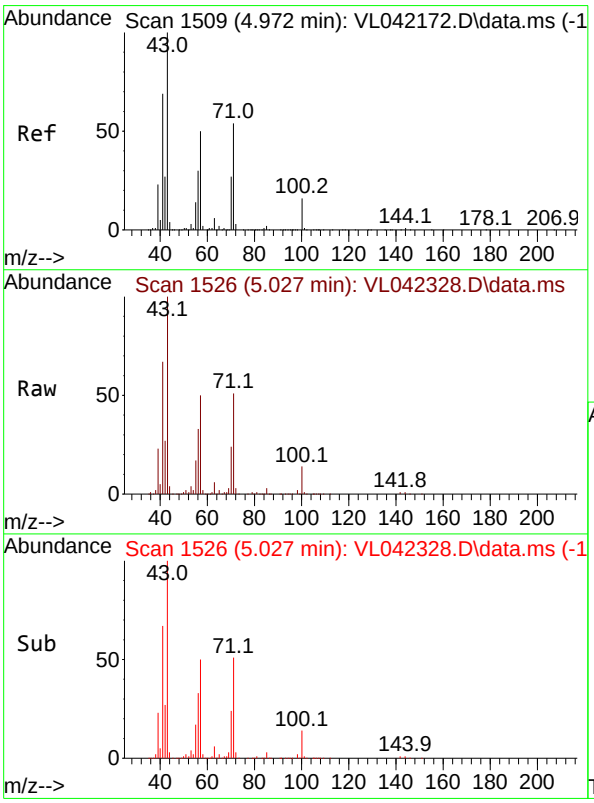

#9
Propene
Concen: 7.917 ppbv
RT: 1.492 min Scan# 4
Delta R.T. 0.010 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

Tgt Ion: 41 Resp: 94136

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 68.2 | 55.4 | 83.2 |

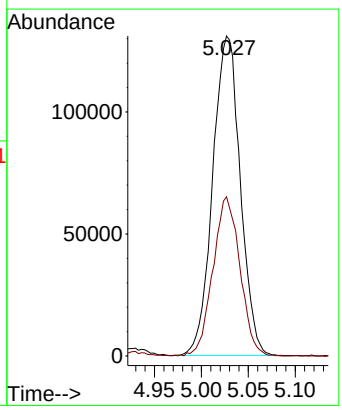


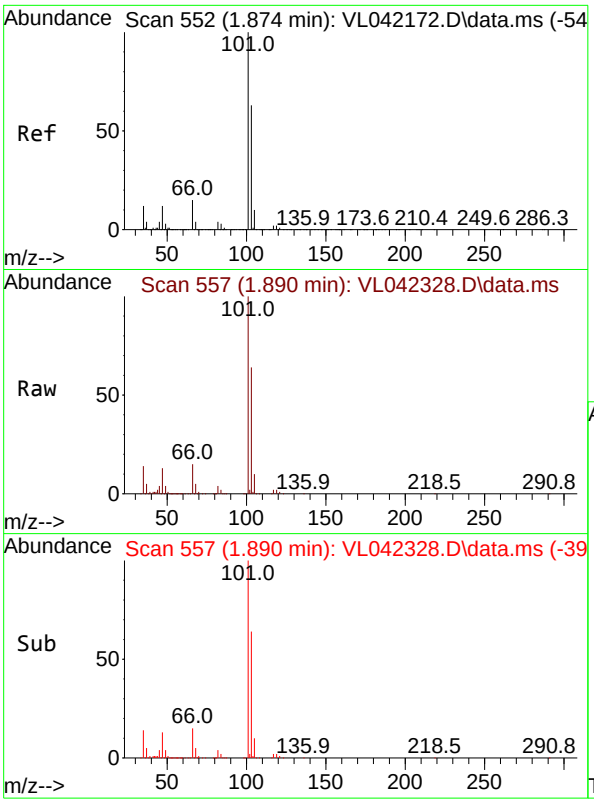




#10
Heptane
Concen: 8.451 ppbv
RT: 5.027 min Scan# 1526
Delta R.T. 0.055 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 43 Resp: 267288

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 48.8 | 39.4 | 59.2 |



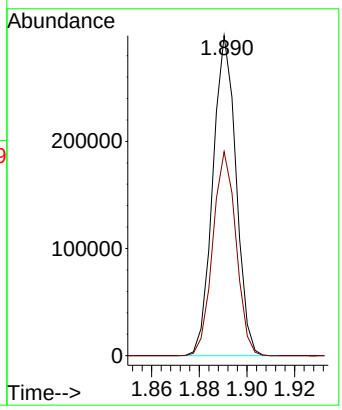


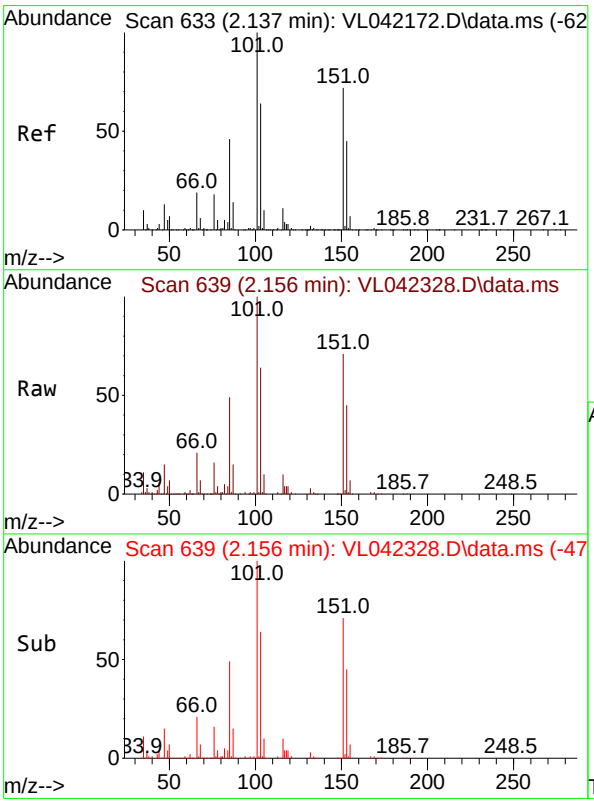

#11
Trichlorofluoromethane
Concen: 8.162 ppbv
RT: 1.890 min Scan# 5
Delta R.T. 0.016 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

Tgt Ion:101 Resp: 201665

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.7 | 50.2 | 75.2 |

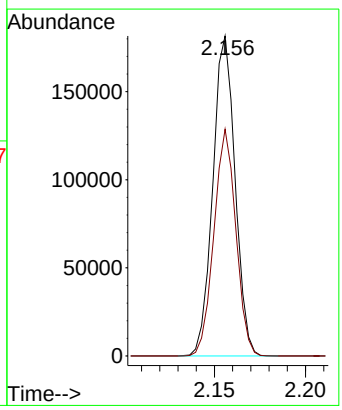


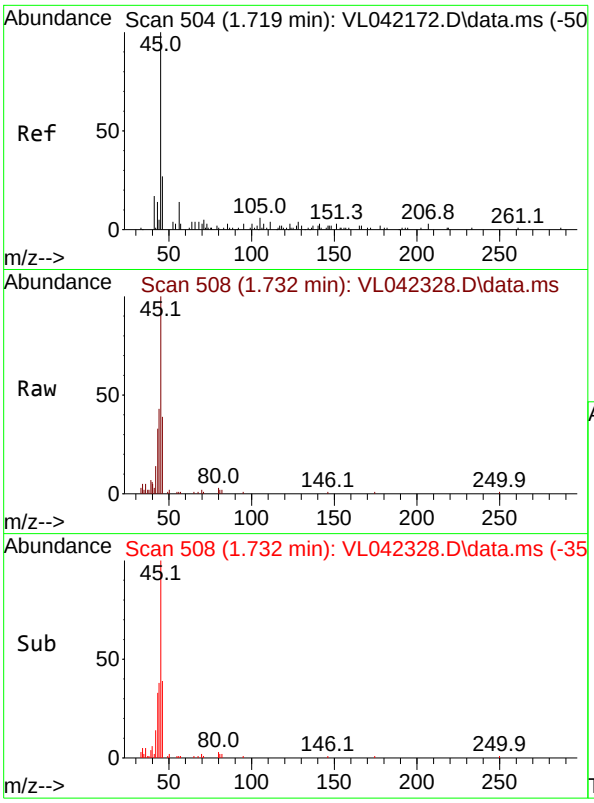




#12
1,1,2-Trichlorotrifluoroethane
Concen: 7.598 ppbv
RT: 2.156 min Scan# 639
Delta R.T. 0.019 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion:101 Resp: 154306

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 69.6 | 57.1 | 85.7 |



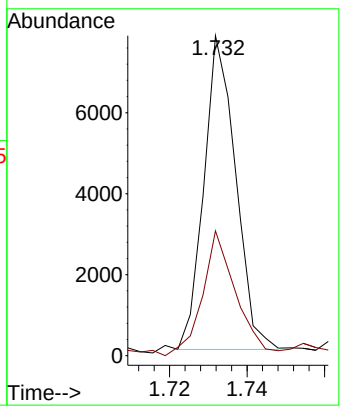


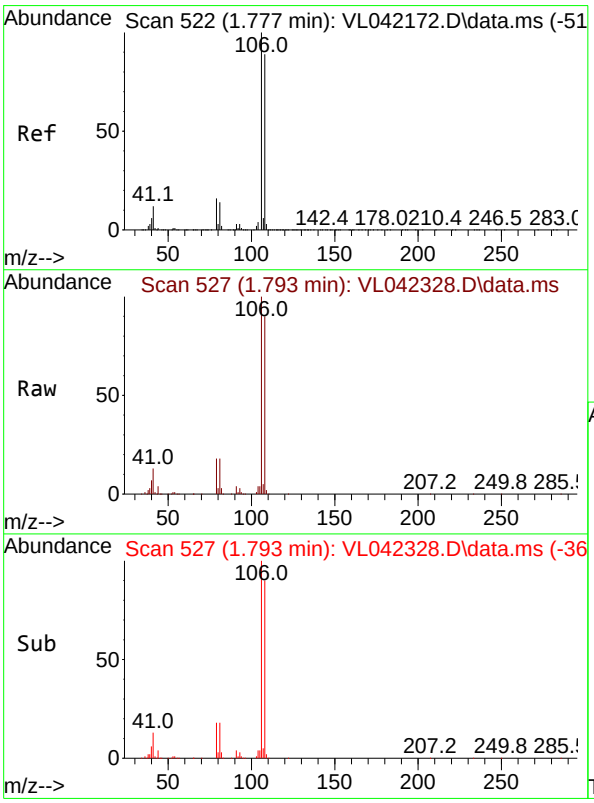

#13
Ethanol
Concen: 3.921 ppbv
RT: 1.732 min Scan# 5
Delta R.T. 0.013 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

Tgt Ion: 45 Resp: 4407

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 48.1 | 20.2 | 80.8 |

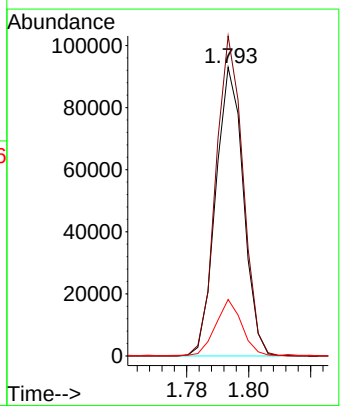


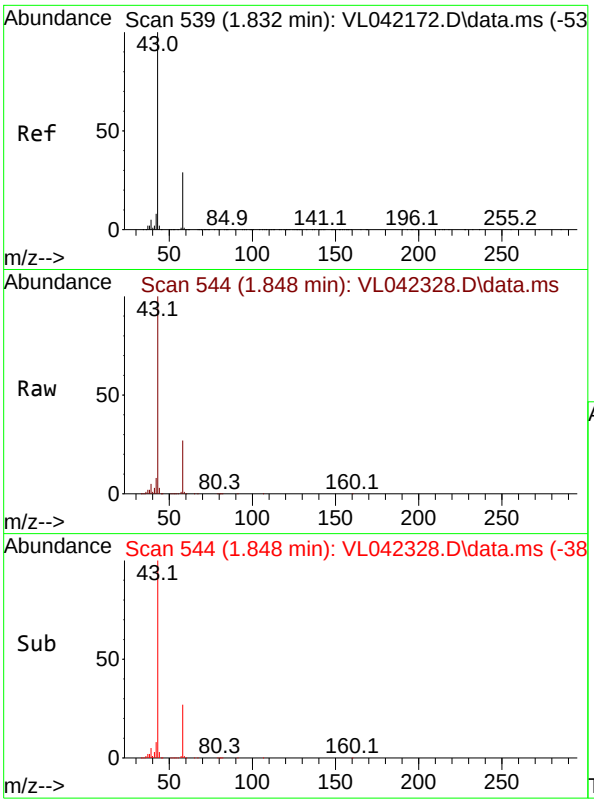




#14
Bromoethene
Concen: 7.408 ppbv
RT: 1.793 min Scan# 527
Delta R.T. 0.016 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion:108 Resp: 57635

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 106 | 108.9 | 86.8 | 130.2 |
| 79 | 19.8 | 15.0 | 22.6 |



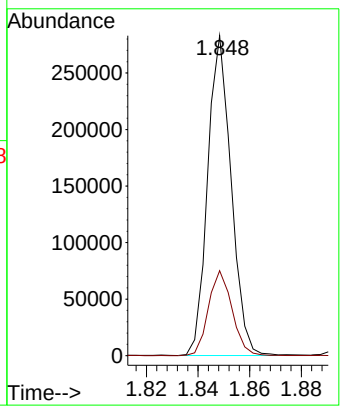


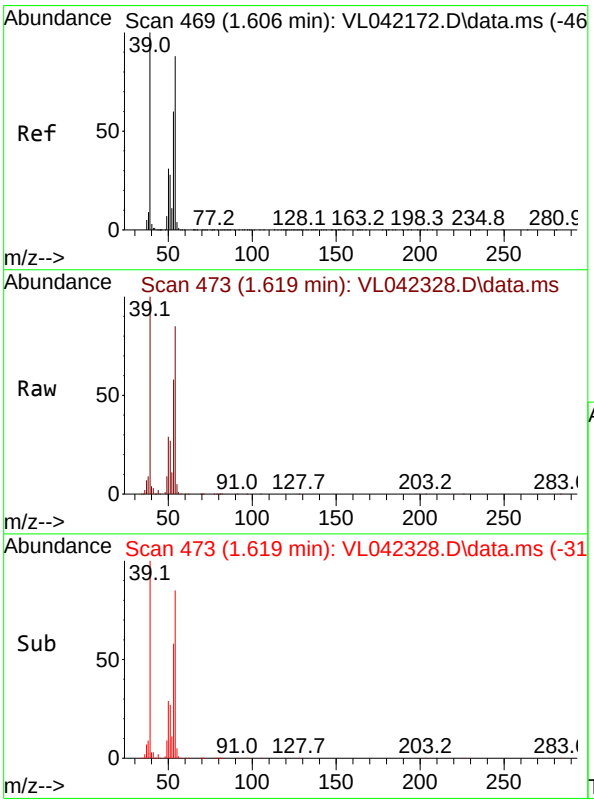

#15
Acetone
Concen: 7.430 ppbv
RT: 1.848 min Scan# 54
Delta R.T. 0.016 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

Tgt Ion: 43 Resp: 178724

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 26.8 | 23.2 | 34.8 |

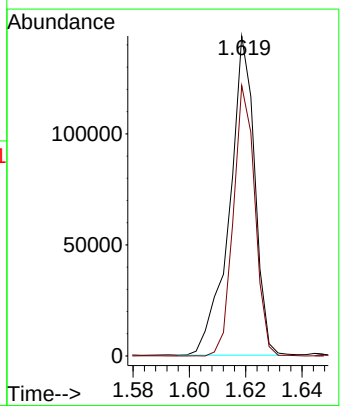


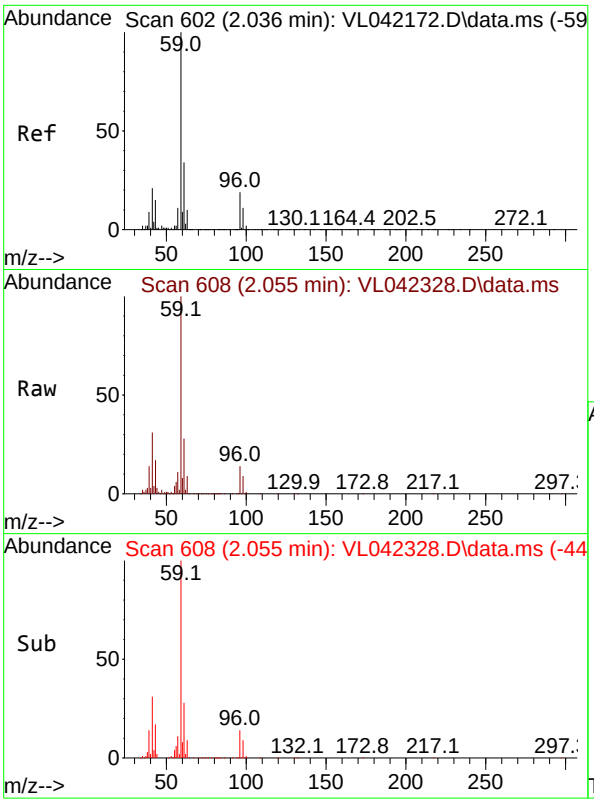




#16
1,3-Butadiene
Concen: 7.617 ppbv
RT: 1.619 min Scan# 473
Delta R.T. 0.013 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 39 Resp: 89479

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 72.1 | 60.7 | 91.1 |



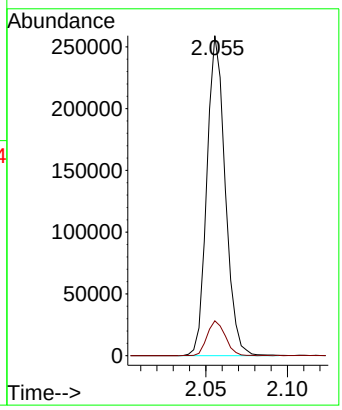


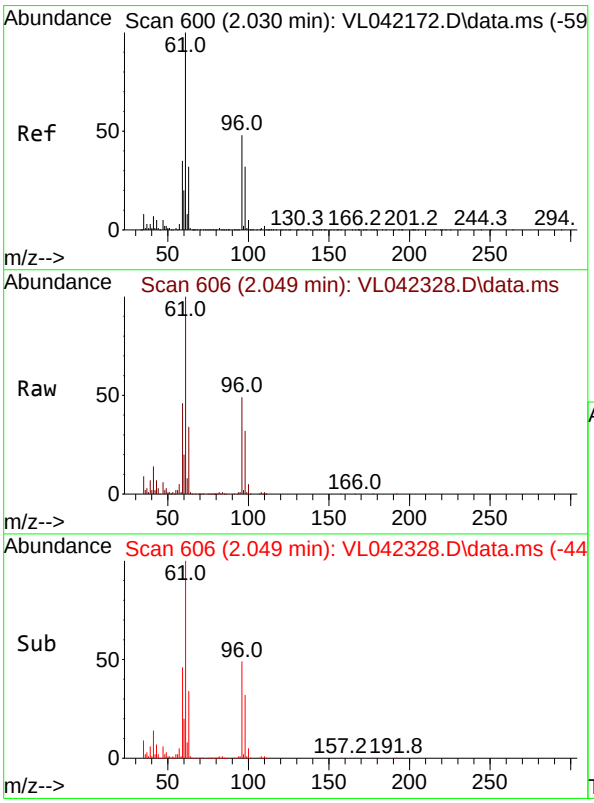

#17
tert-Butyl alcohol
Concen: 6.757 ppbv
RT: 2.055 min Scan# 6
Delta R.T. 0.019 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

Tgt Ion: 59 Resp: 202421

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.8 | 8.9 | 13.3 |

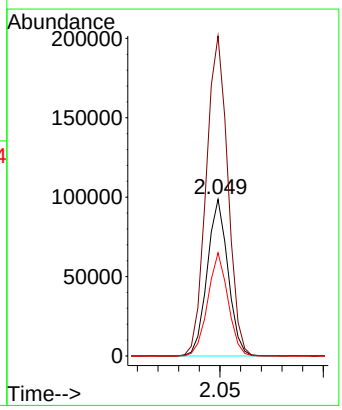


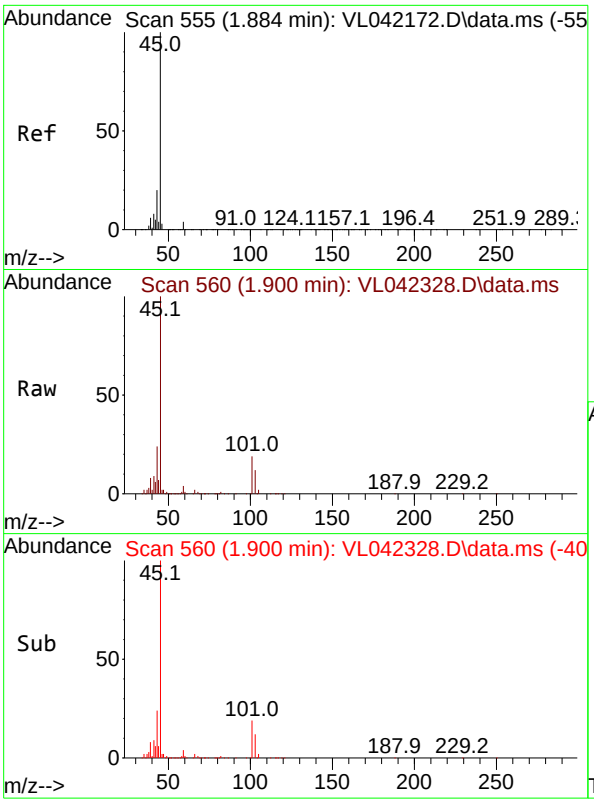




#18
1,1-Dichloroethene
Concen: 7.269 ppbv
RT: 2.049 min Scan# 606
Delta R.T. 0.019 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 96 Resp: 69013

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 204.2 | 167.6 | 251.4 |
| 98 | 65.9 | 53.5 | 80.3 |



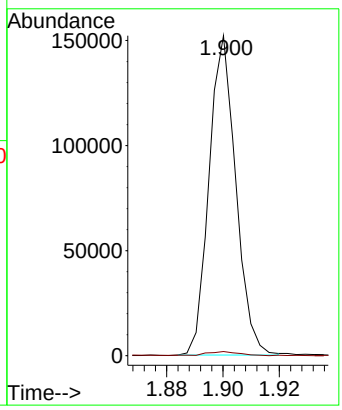


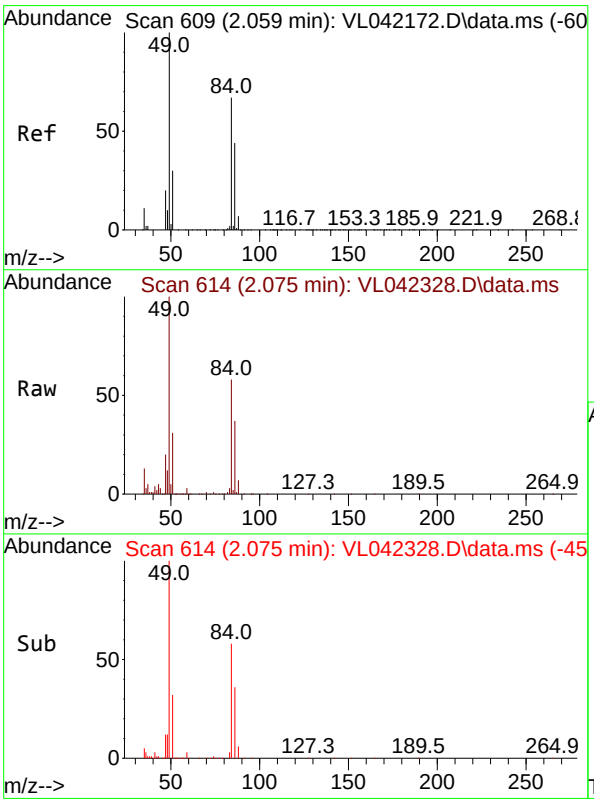

#19
Isopropyl Alcohol
Concen: 7.390 ppbv
RT: 1.900 min Scan# 5
Delta R.T. 0.016 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

Tgt Ion: 45 Resp: 100289

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 47.9 | 36.9 | 55.3 |

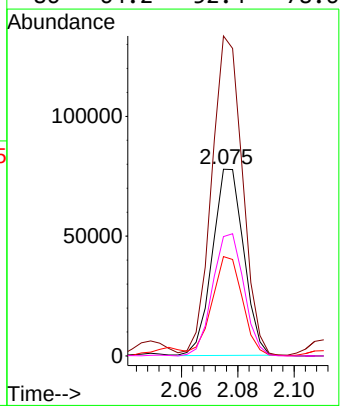


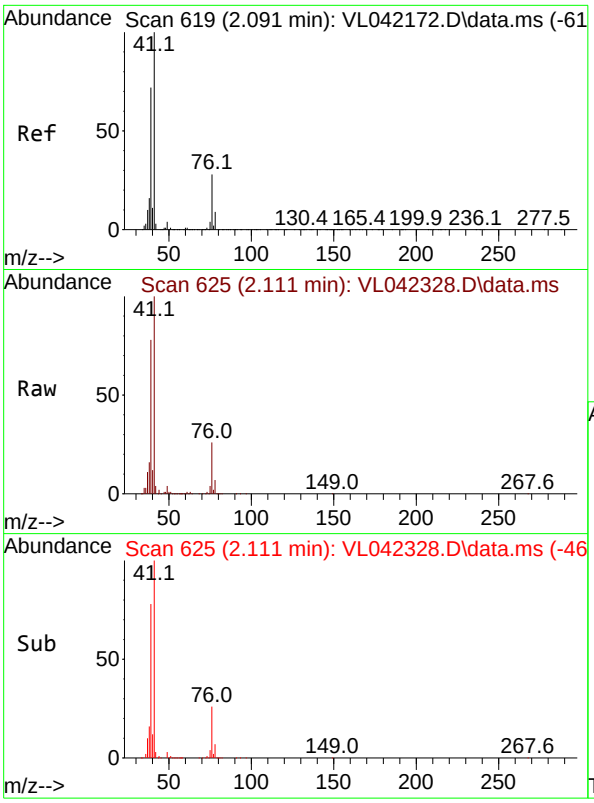




#20
Methylene Chloride
Concen: 6.704 ppbv
RT: 2.075 min Scan# 614
Delta R.T. 0.016 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 84 Resp: 60054

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 171.6 | 120.2 | 180.4 |
| 51 | 53.0 | 37.4 | 56.0 |
| 86 | 64.2 | 52.4 | 78.6 |



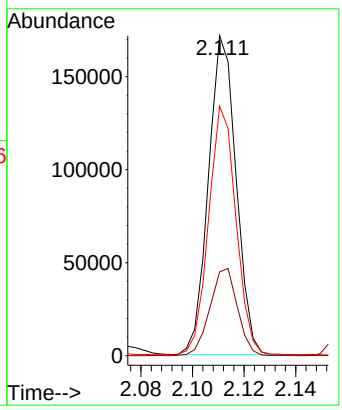


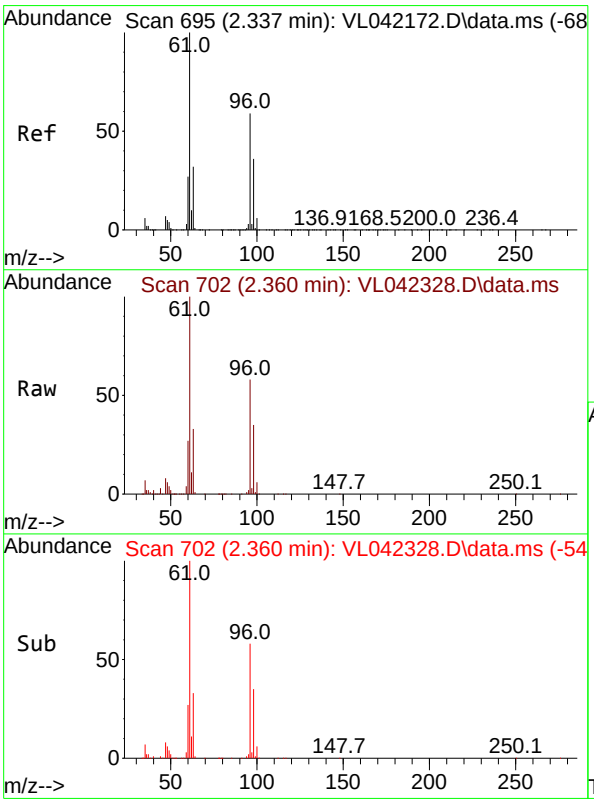

#21
Allyl Chloride
Concen: 7.534 ppbv
RT: 2.111 min Scan# 6
Delta R.T. 0.019 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

Tgt Ion: 41 Resp: 127800

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 27.3 | 24.1 | 36.1 |
| 39 | 76.8 | 61.1 | 91.7 |

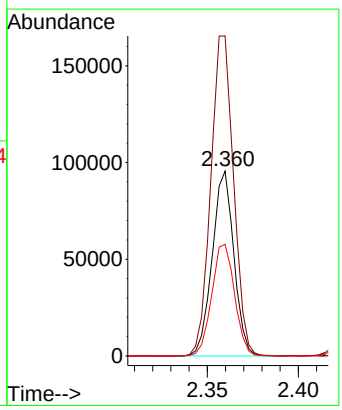


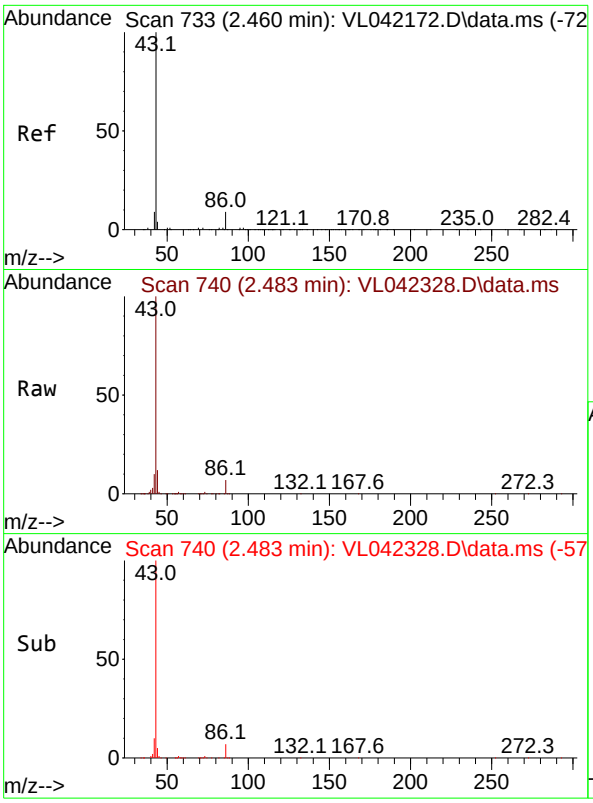




#22
trans-1,2-Dichloroethene
Concen: 7.198 ppbv
RT: 2.360 min Scan# 702
Delta R.T. 0.022 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 96 Resp: 78991

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 173.2 | 136.6 | 204.8 |
| 98 | 60.4 | 49.4 | 74.2 |



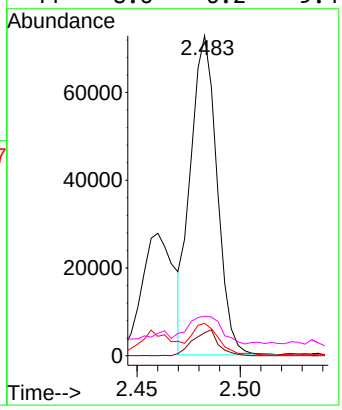


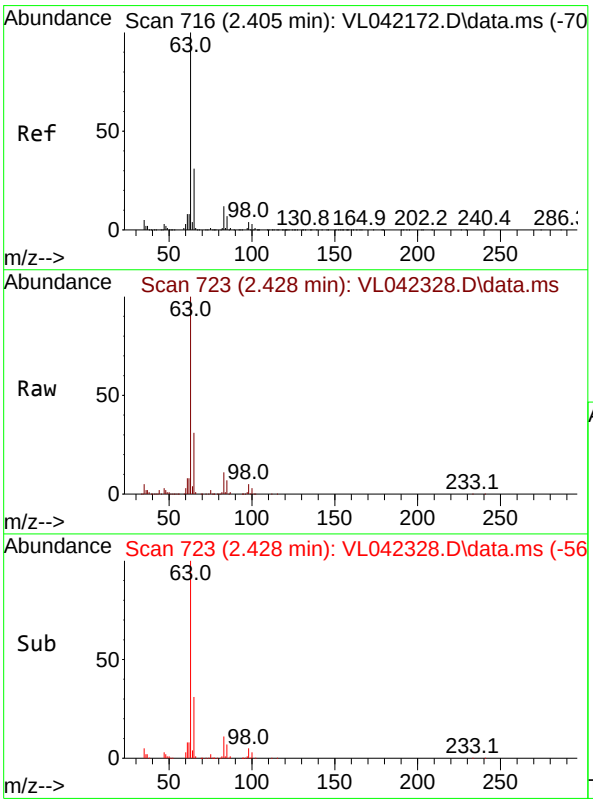

#23
Vinyl Acetate
Concen: 6.222 ppbv
RT: 2.483 min Scan# 74
Delta R.T. 0.022 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

Tgt Ion: 43 Resp: 64777

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 7.2 | 5.5 | 8.3 |
| 42 | 9.9 | 8.6 | 13.0 |
| 44 | 8.6 | 6.2 | 9.4 |

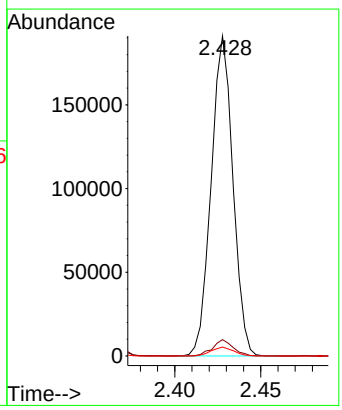


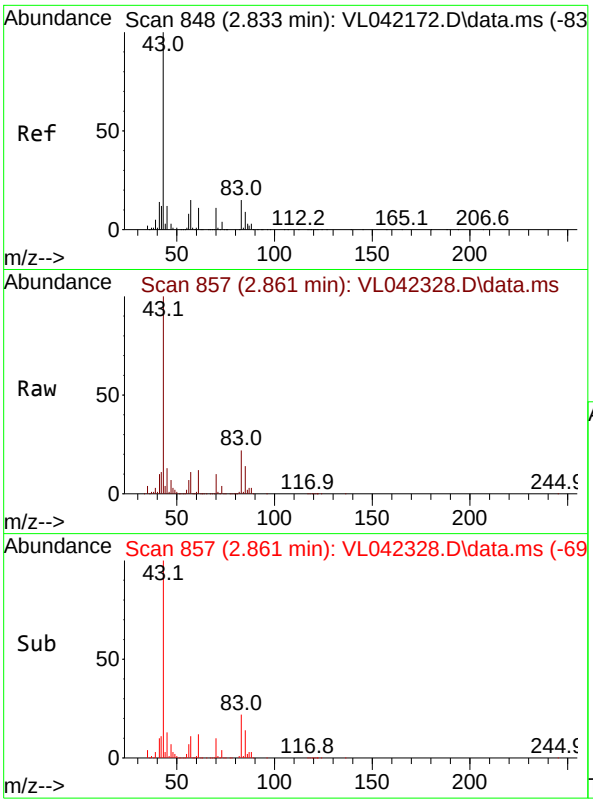




#24
1,1-Dichloroethane
Concen: 8.277 ppbv
RT: 2.428 min Scan# 723
Delta R.T. 0.022 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 63 Resp: 168373

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 5.1 | 2.3 | 6.8 |
| 100 | 2.8 | 1.6 | 4.7 |



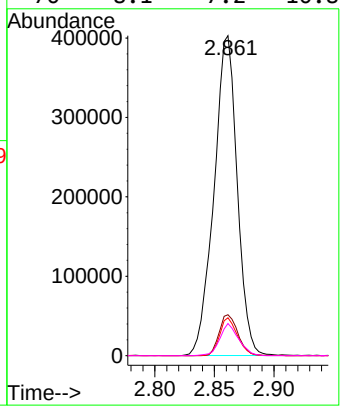


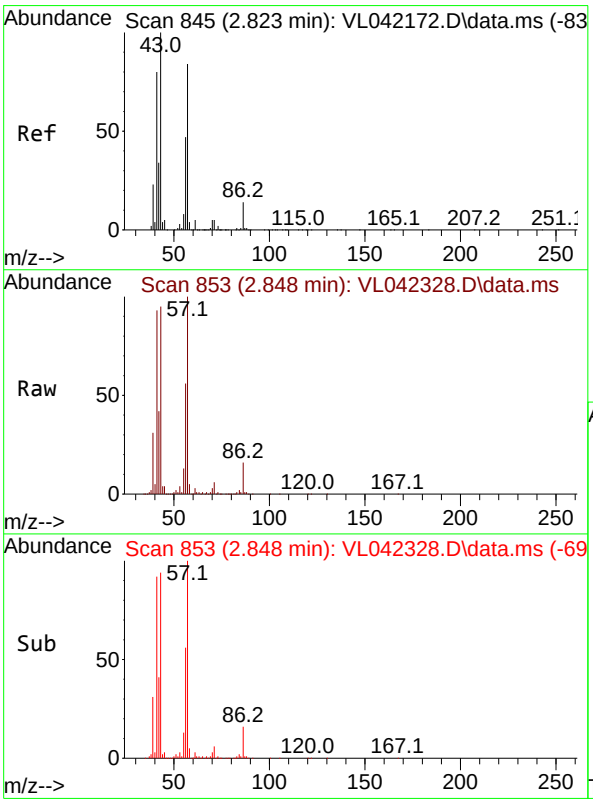

#25
Ethyl Acetate
Concen: 8.732 ppbv
RT: 2.861 min Scan# 8
Delta R.T. 0.029 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

Tgt Ion: 43 Resp: 545140

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 10.5 | 8.2 | 12.2 |
| 61 | 9.1 | 7.3 | 10.9 |
| 70 | 8.1 | 7.2 | 10.8 |

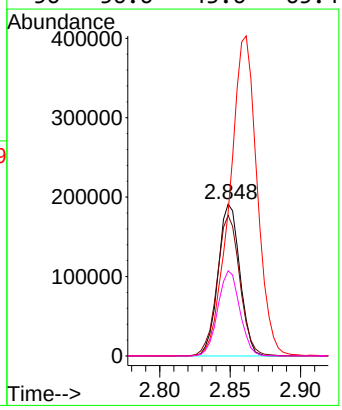


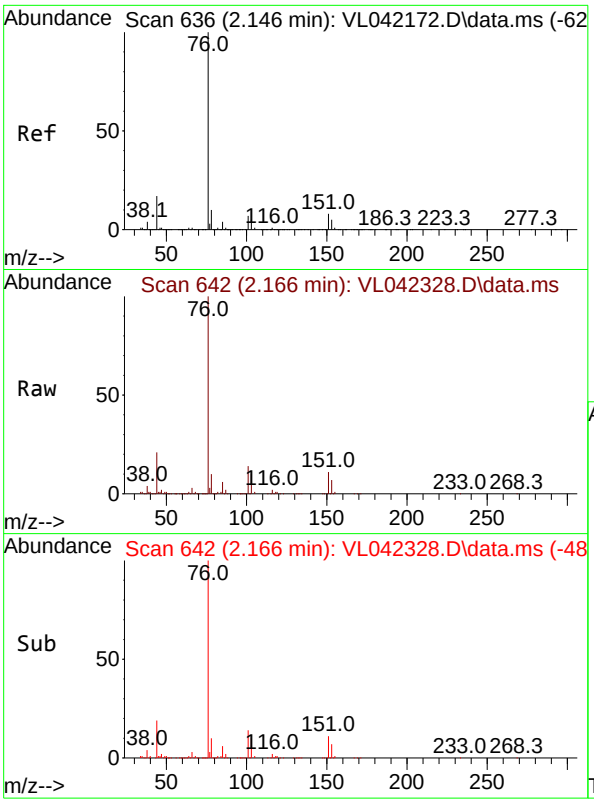




#26
Hexane
Concen: 8.528 ppbv
RT: 2.848 min Scan# 853
Delta R.T. 0.026 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 57 Resp: 205629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 97.2 | 76.6 | 114.8 |
| 43 | 265.7 | 207.8 | 311.8 |
| 56 | 56.6 | 43.6 | 65.4 |



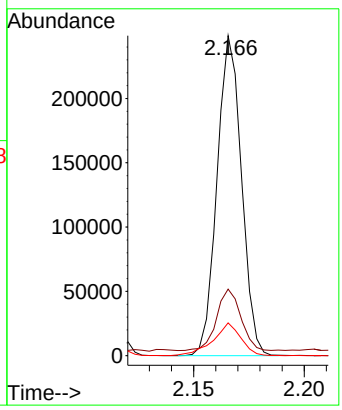


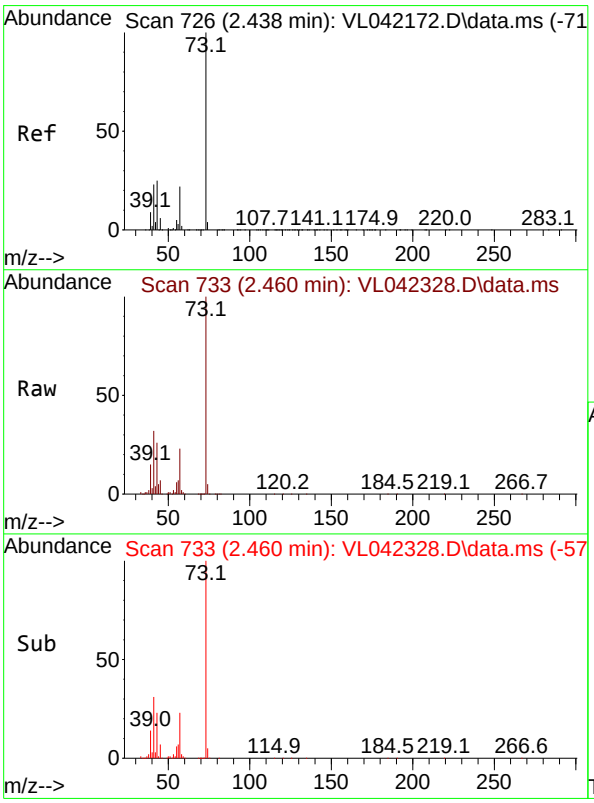

#27
Carbon Disulfide
Concen: 7.402 ppbv
RT: 2.166 min Scan# 64
Delta R.T. 0.019 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

Tgt Ion: 76 Resp: 191388

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 19.3 | 14.7 | 22.1 |
| 78 | 11.6 | 9.3 | 13.9 |

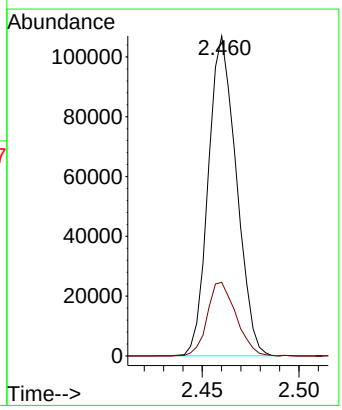


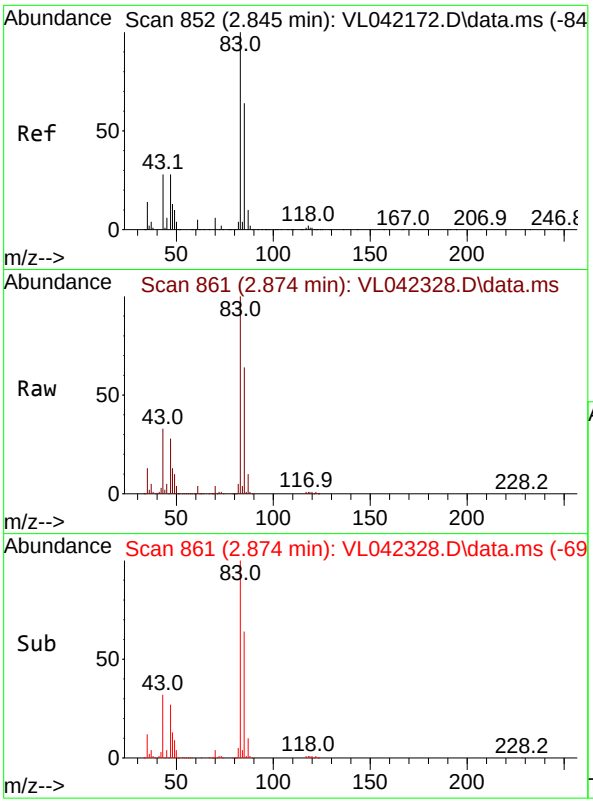




#28
Methyl tert-Butyl Ether
Concen: 7.172 ppbv
RT: 2.460 min Scan# 733
Delta R.T. 0.022 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 73 Resp: 107667

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 23.7 | 20.5 | 30.7 |



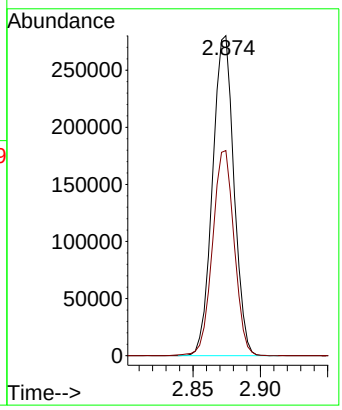


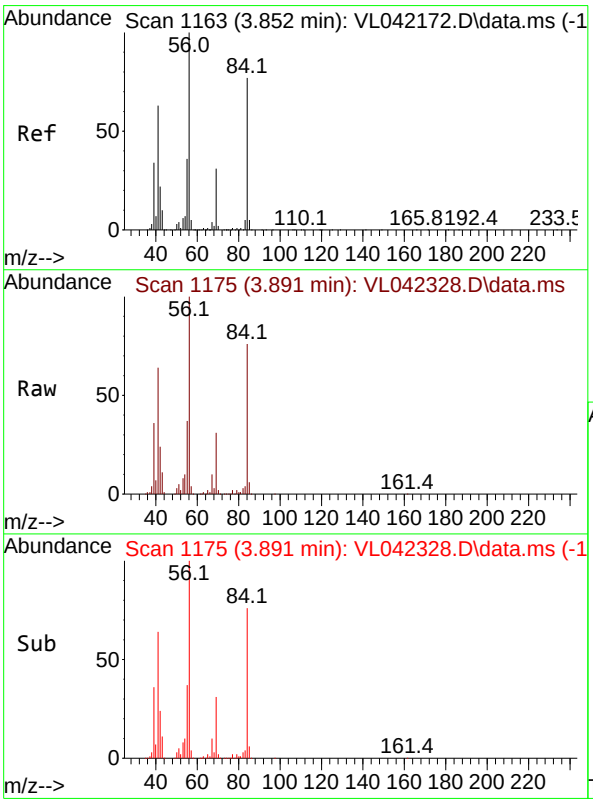

#29
Chloroform
Concen: 8.763 ppbv
RT: 2.874 min Scan# 8
Delta R.T. 0.029 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

Tgt Ion: 83 Resp: 309262

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.1 | 51.4 | 77.2 |

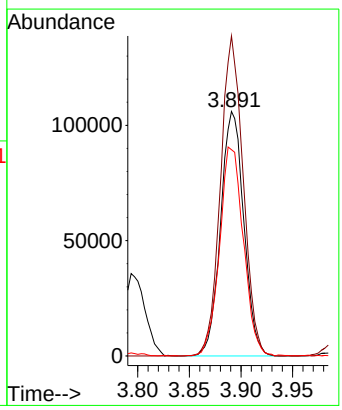


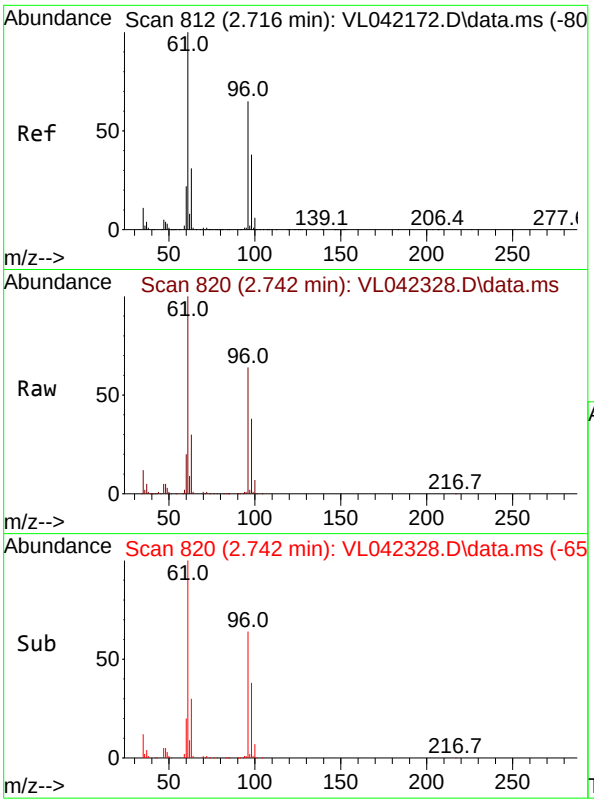




#30
Cyclohexane
Concen: 7.924 ppbv
RT: 3.891 min Scan# 1175
Delta R.T. 0.039 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 84 Resp: 165914

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 127.7 | 102.8 | 154.2 |
| 41 | 87.6 | 66.5 | 99.7 |



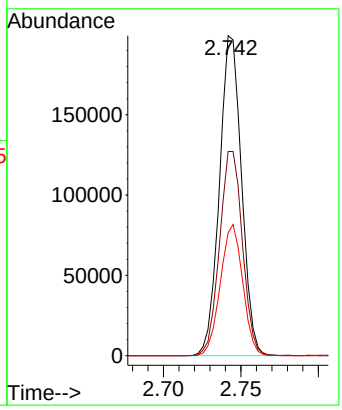


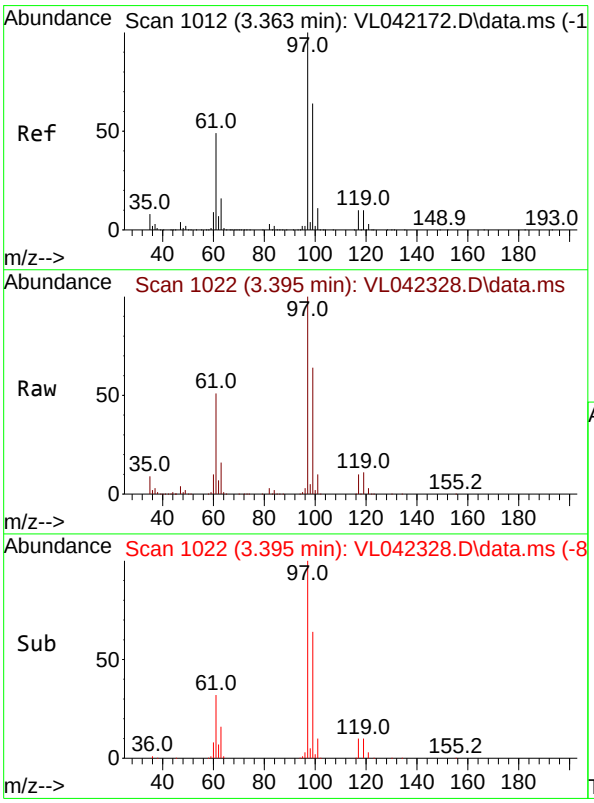

#31
cis-1,2-Dichloroethene
Concen: 8.074 ppbv
RT: 2.742 min Scan# 8
Delta R.T. 0.026 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

Tgt Ion: 61 Resp: 197651

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 63.8 | 51.8 | 77.8 |
| 98 | 38.4 | 30.6 | 46.0 |

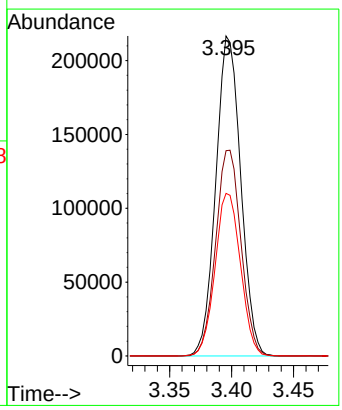


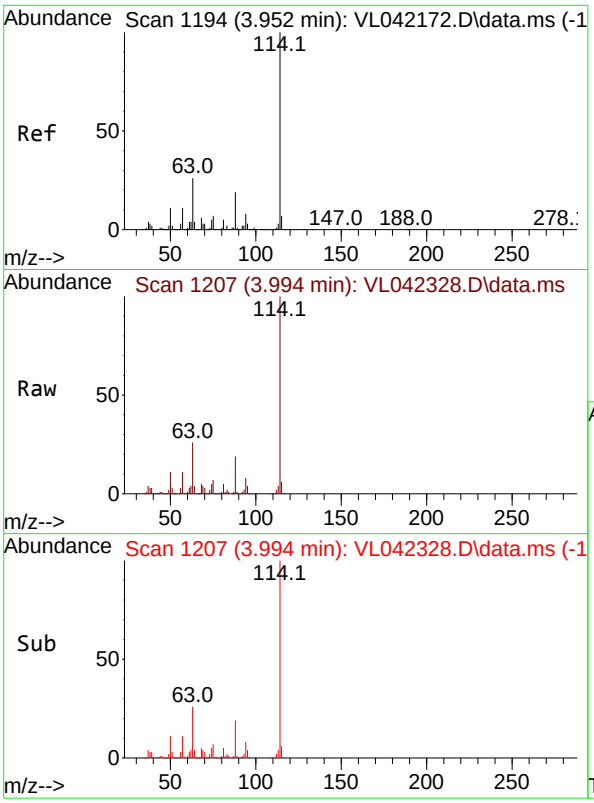




#32
1,1,1-Trichloroethane
Concen: 7.528 ppbv
RT: 3.395 min Scan# 1022
Delta R.T. 0.032 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 97 Resp: 304143

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 65.2 | 51.5 | 77.3 |
| 61 | 51.8 | 38.7 | 58.1 |



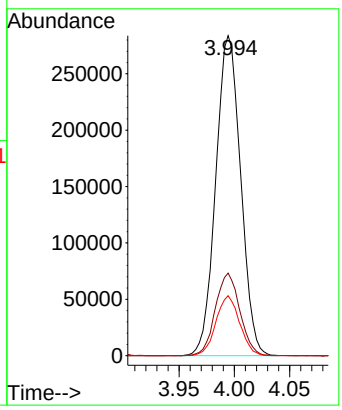


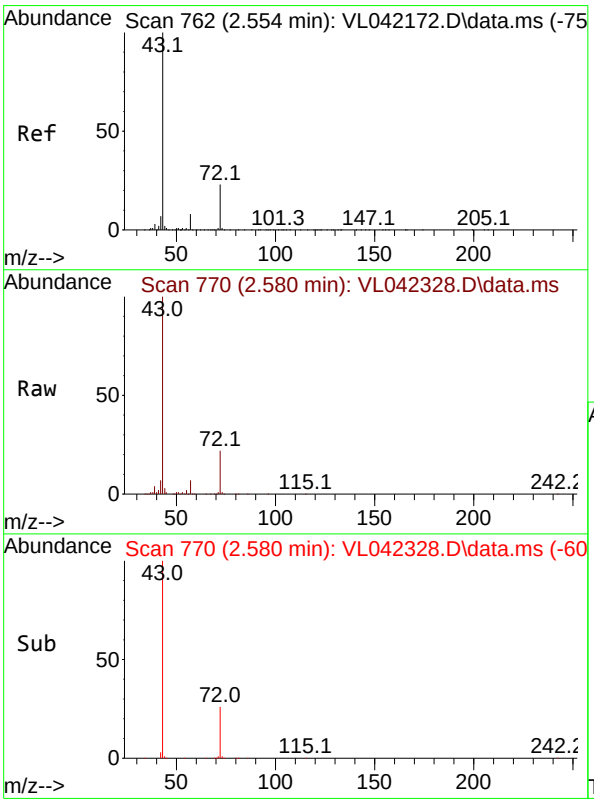

#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.994 min Scan# 1
Delta R.T. 0.042 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

Tgt Ion:114 Resp: 444595

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.4 | 20.7 | 31.1 |
| 88 | 17.8 | 15.0 | 22.4 |

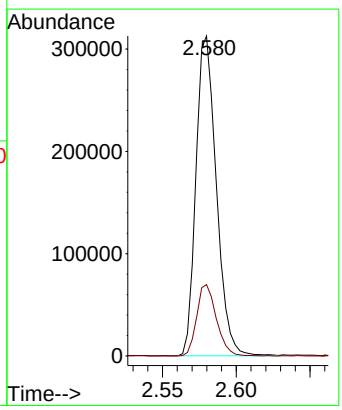


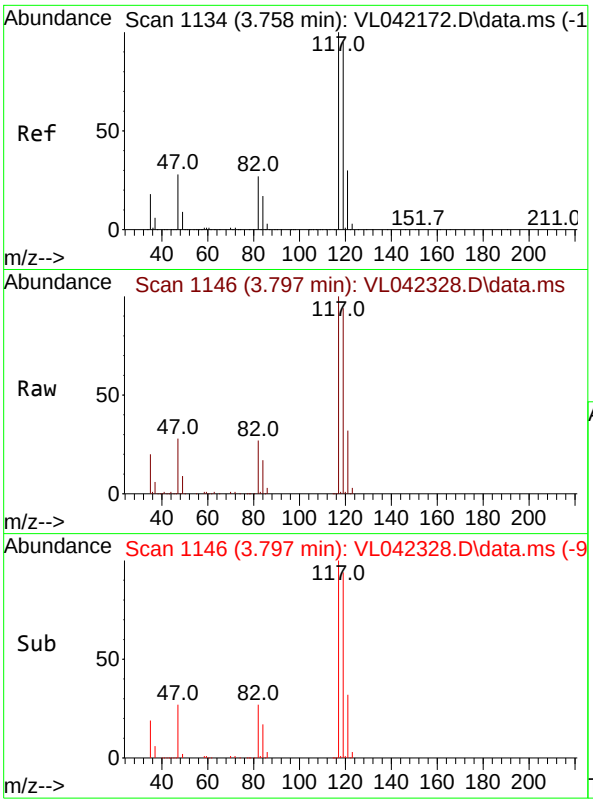




#34
2-Butanone
Concen: 9.323 ppbv
RT: 2.580 min Scan# 770
Delta R.T. 0.026 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 43 Resp: 300576

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 21.6 | 18.2 | 27.2 |



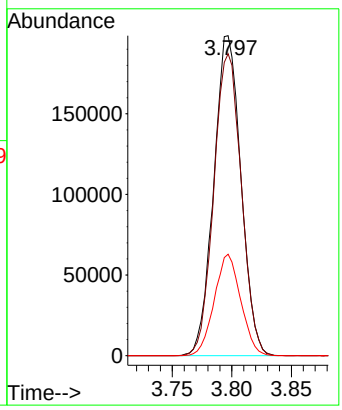


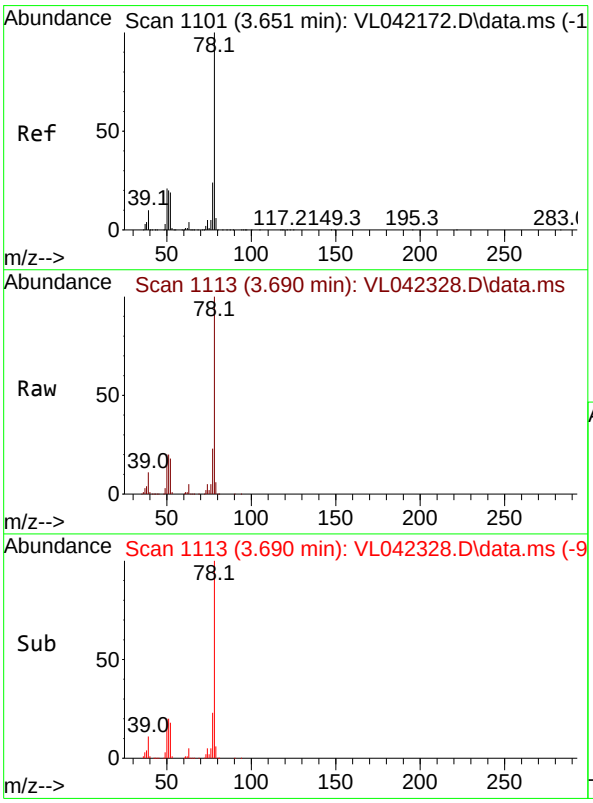

#35
Carbon Tetrachloride
Concen: 9.065 ppbv
RT: 3.797 min Scan# 11
Delta R.T. 0.039 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

Tgt Ion:117 Resp: 314849

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 94.3 | 76.2 | 114.2 |
| 121 | 31.7 | 24.2 | 36.4 |

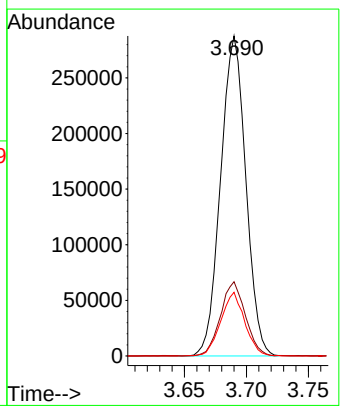


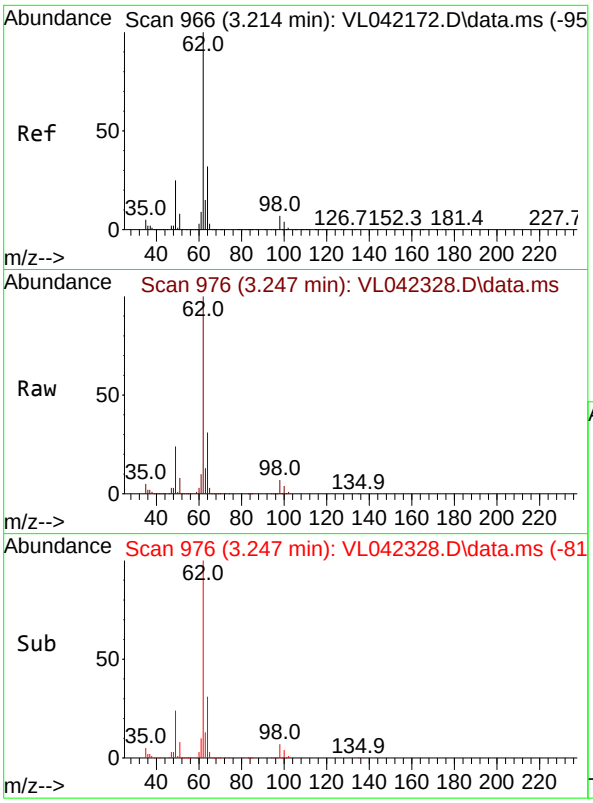




#36
Benzene
Concen: 9.256 ppbv
RT: 3.690 min Scan# 1113
Delta R.T. 0.039 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 78 Resp: 407959

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.1 | 19.1 | 28.7 |
| 50 | 19.9 | 16.6 | 24.8 |



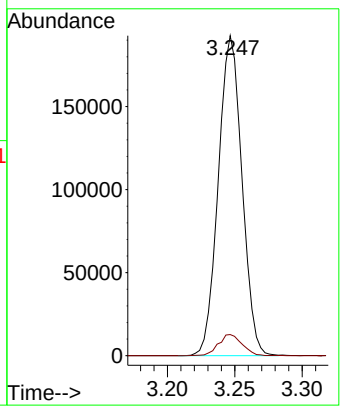


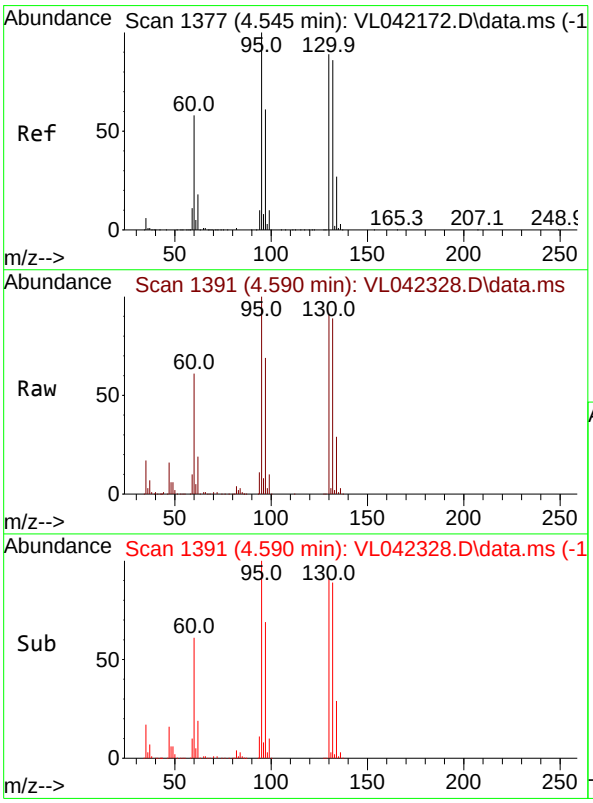

#37
1,2-Dichloroethane
Concen: 9.337 ppbv
RT: 3.247 min Scan# 9
Delta R.T. 0.032 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

Tgt Ion: 62 Resp: 235609

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 6.6 | 5.4 | 8.2 |

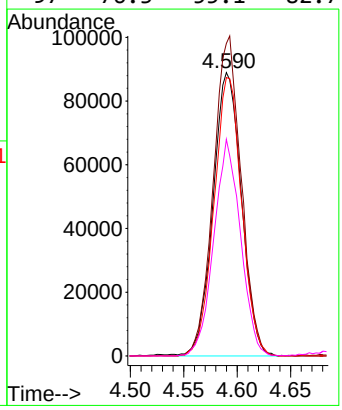


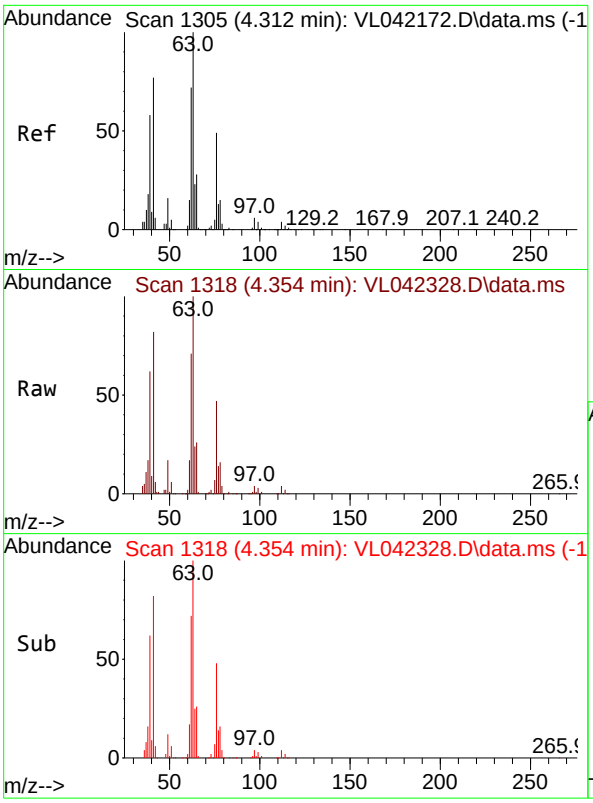




#38
Trichloroethene
Concen: 8.954 ppbv
RT: 4.590 min Scan# 1391
Delta R.T. 0.045 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion:130 Resp: 164664

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 110.3 | 89.8 | 134.8 |
| 132 | 98.2 | 77.4 | 116.2 |
| 97 | 76.3 | 55.1 | 82.7 |



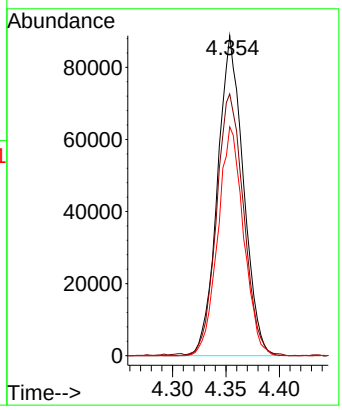


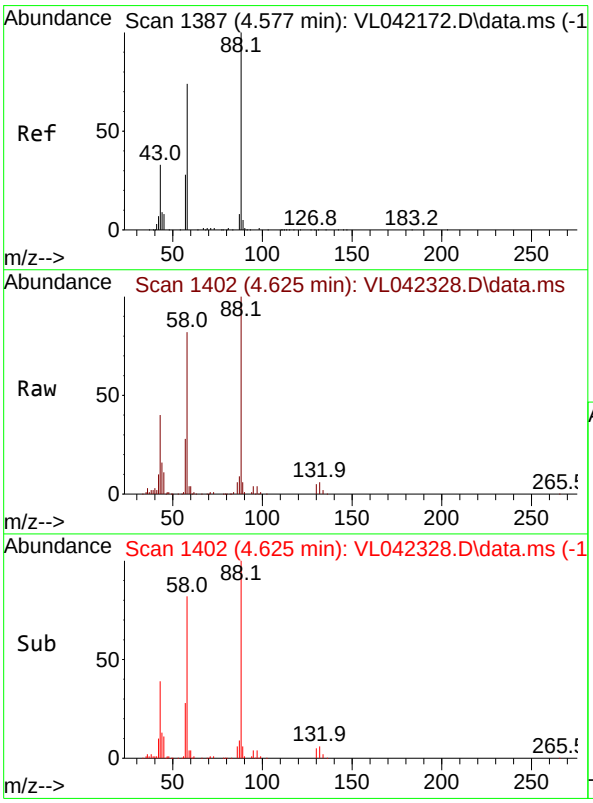

#39
1,2-Dichloropropane
Concen: 9.299 ppbv
RT: 4.354 min Scan# 1
Delta R.T. 0.042 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

Tgt Ion: 63 Resp: 149260

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 81.2 | 61.7 | 92.5 |
| 62 | 71.5 | 57.6 | 86.4 |

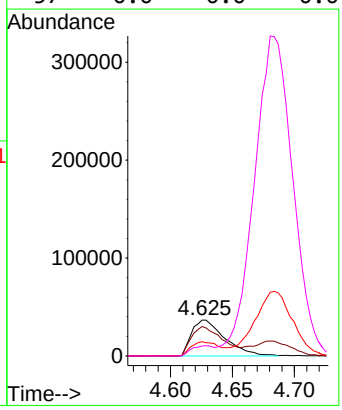


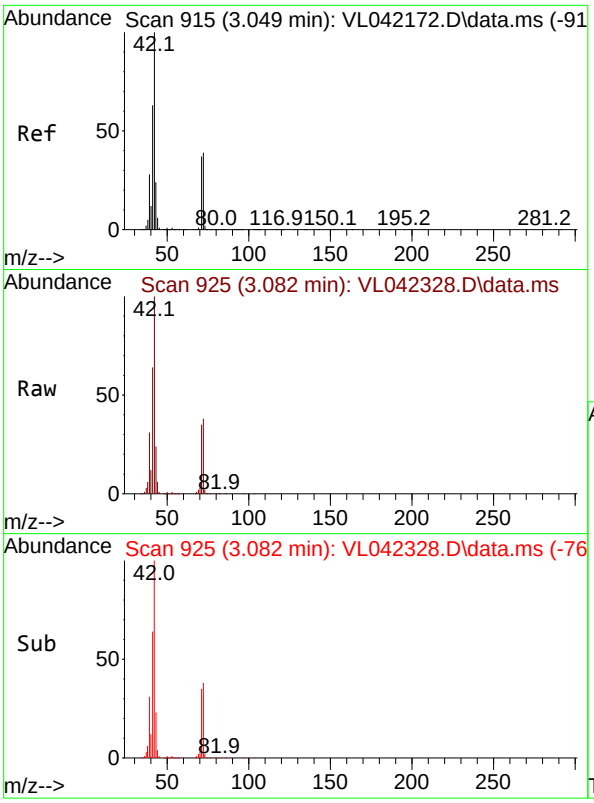




#40
1,4-Dioxane
Concen: 8.072 ppbv
RT: 4.625 min Scan# 1402
Delta R.T. 0.048 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 88 Resp: 68773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 75.9 | 62.7 | 94.1 |
| 43 | 34.0 | 23.0 | 34.4 |
| 57 | 0.0 | 0.0 | 0.0 |



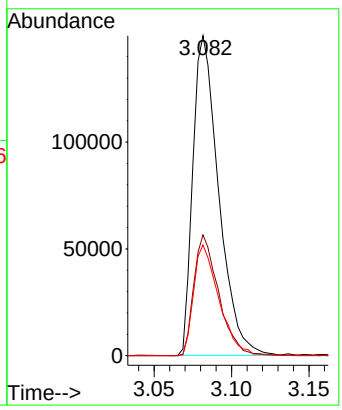


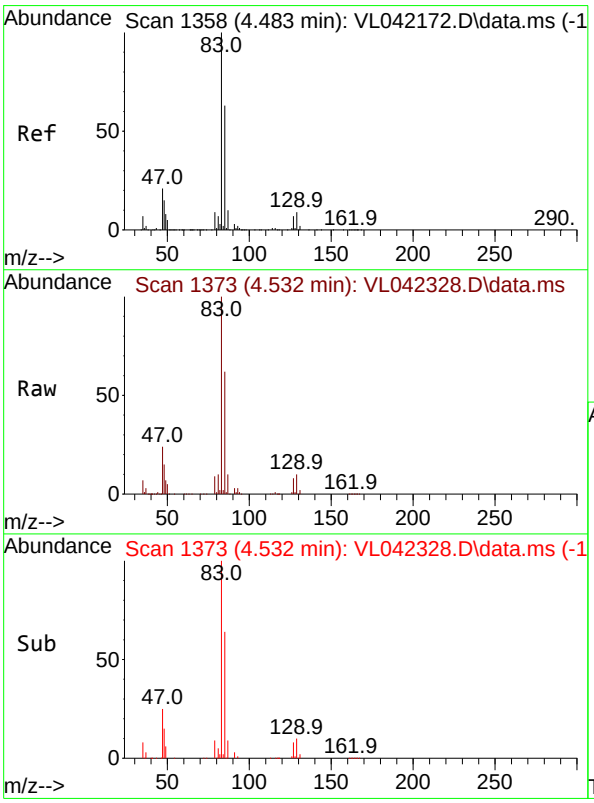

#41
Tetrahydrofuran
Concen: 9.361 ppbv
RT: 3.082 min Scan# 9
Delta R.T. 0.032 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

Tgt Ion: 42 Resp: 173776

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 36.4 | 31.4 | 47.0 |
| 71 | 33.9 | 30.2 | 45.4 |

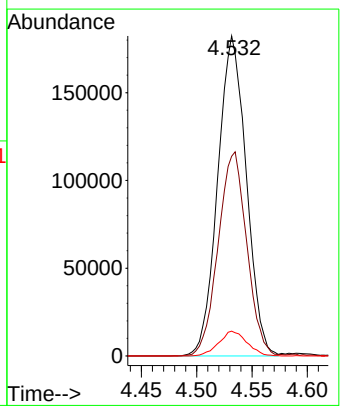


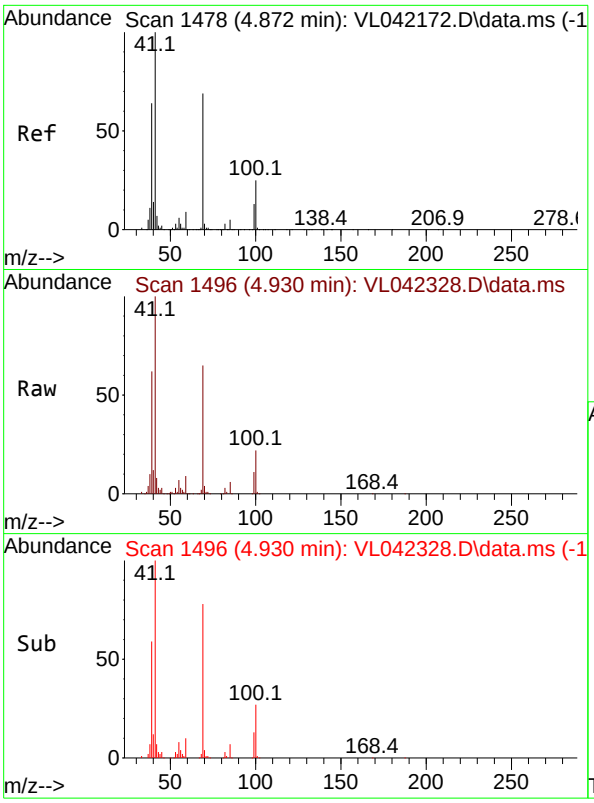




#42
Bromodichloromethane
Concen: 9.414 ppbv
RT: 4.532 min Scan# 1373
Delta R.T. 0.048 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 83 Resp: 327497

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.4 | 50.5 | 75.7 |
| 127 | 7.7 | 5.9 | 8.9 |



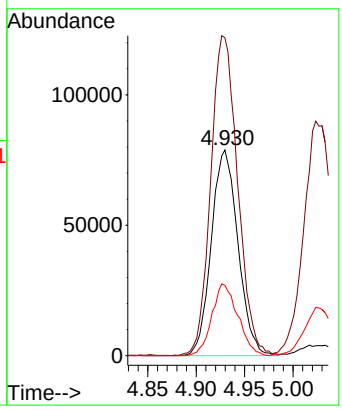


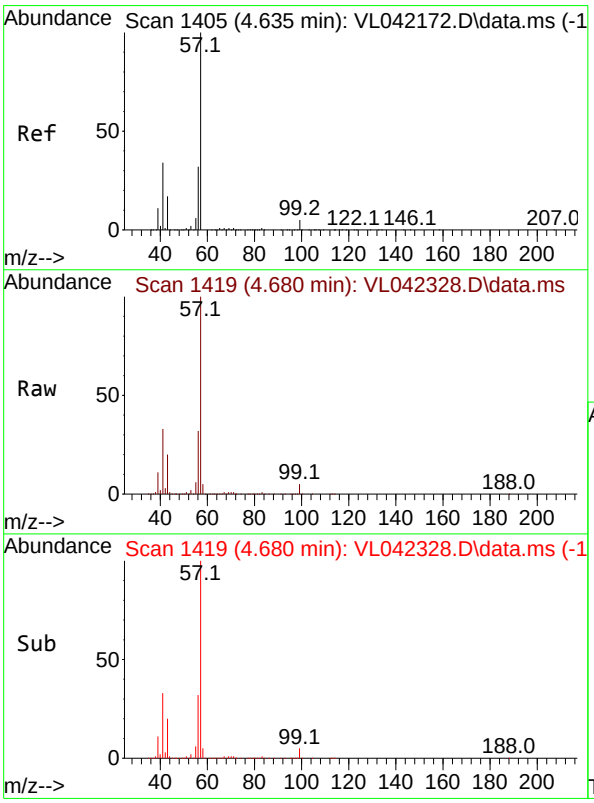

#43
Methyl Methacrylate
Concen: 8.121 ppbv
RT: 4.930 min Scan# 14
Delta R.T. 0.058 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

Tgt Ion: 69 Resp: 151531

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 156.5 | 123.8 | 185.6 |
| 100 | 33.9 | 28.4 | 42.6 |

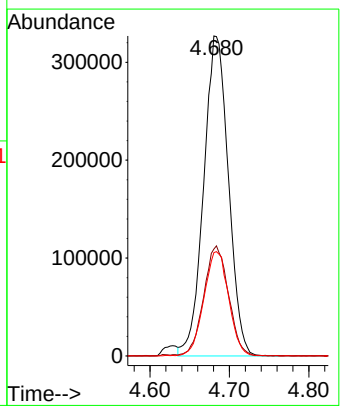


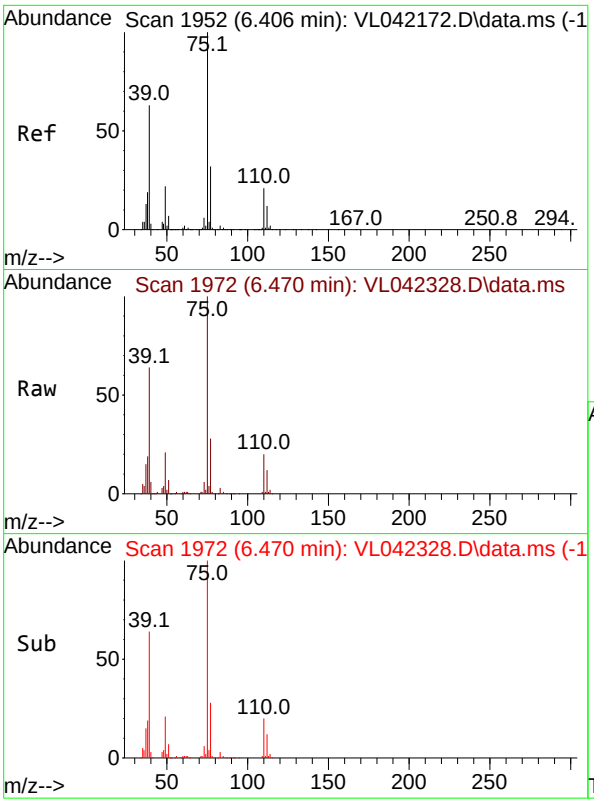




#44
2,2,4-Trimethylpentane
Concen: 9.503 ppbv
RT: 4.680 min Scan# 1419
Delta R.T. 0.045 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 57 Resp: 707832

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 34.7 | 26.8 | 40.2 |
| 56 | 32.7 | 25.6 | 38.4 |



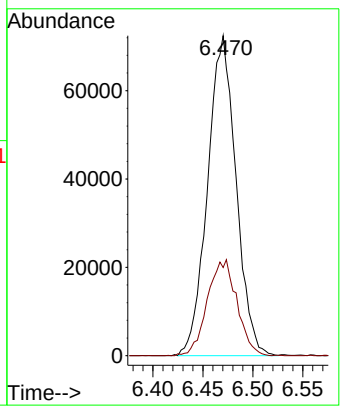


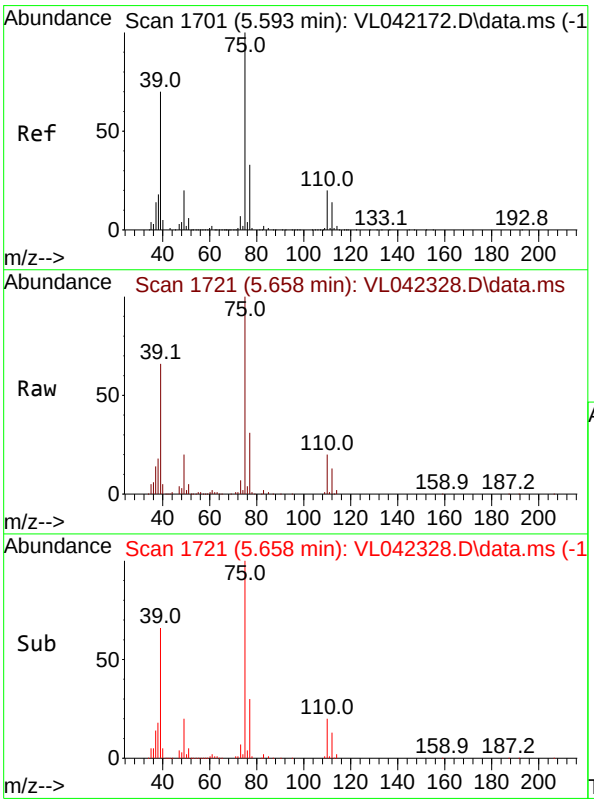

#45
t-1,3-Dichloropropene
Concen: 7.179 ppbv
RT: 6.470 min Scan# 1
Delta R.T. 0.065 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

Tgt Ion: 75 Resp: 143714

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 27.5 | 26.0 | 39.0 |

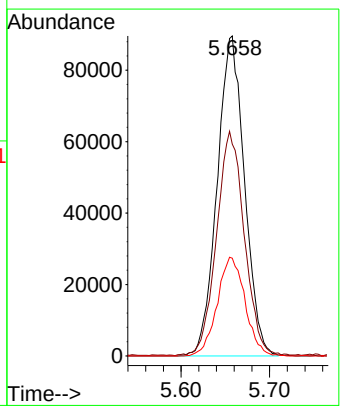


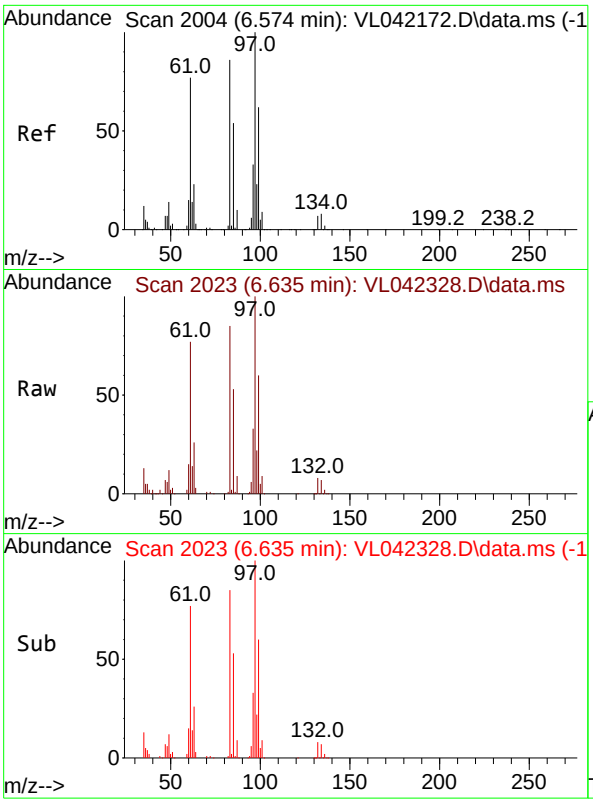




#46
cis-1,3-Dichloropropene
Concen: 7.841 ppbv
RT: 5.658 min Scan# 1721
Delta R.T. 0.065 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 75 Resp: 192419

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 39 | 65.8 | 55.8 | 83.6 |
| 77 | 30.6 | 26.0 | 39.0 |



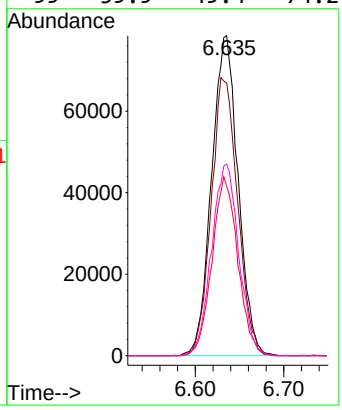


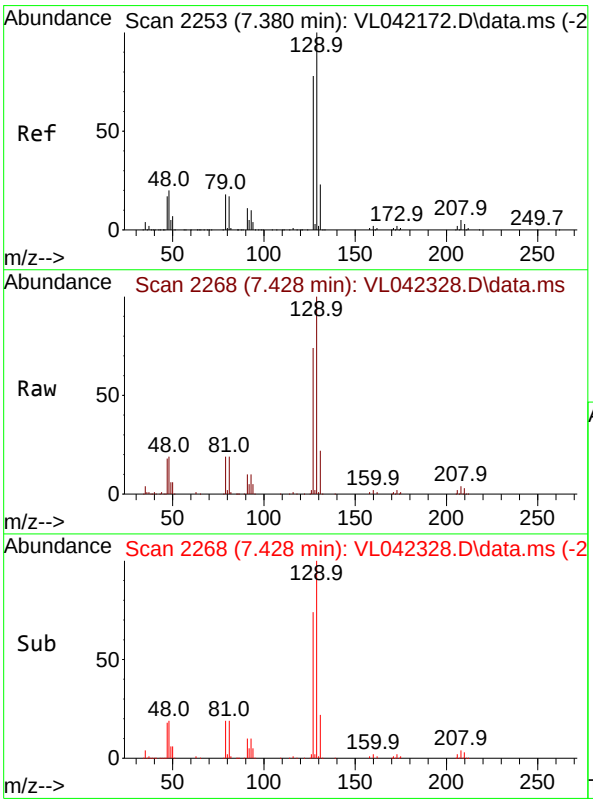

#47
1,1,2-Trichloroethane
Concen: 9.621 ppbv
RT: 6.635 min Scan# 2
Delta R.T. 0.061 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

Tgt Ion: 97 Resp: 163251

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 85.2 | 69.2 | 103.8 |
| 85 | 52.9 | 43.1 | 64.7 |
| 99 | 59.9 | 49.4 | 74.2 |

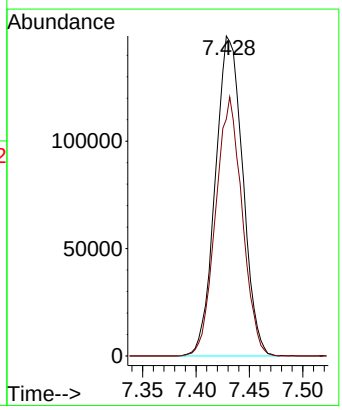


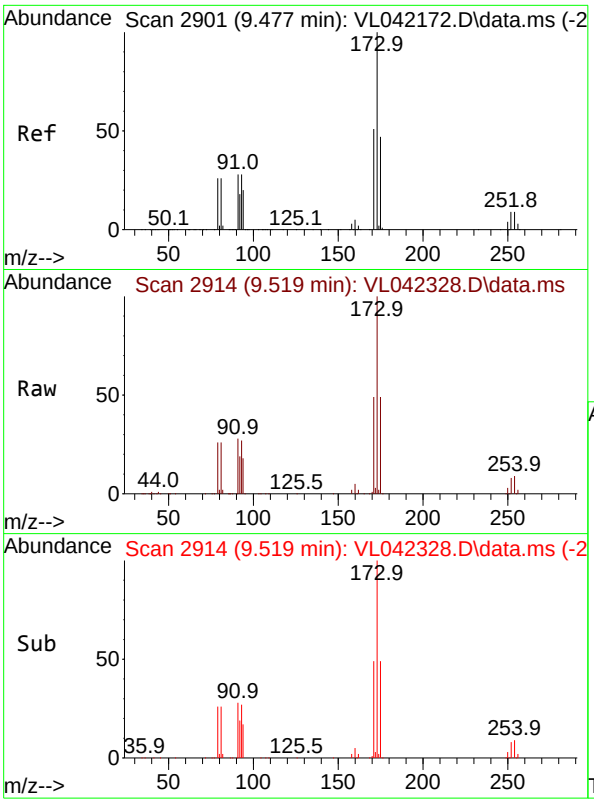




#48
Dibromochloromethane
Concen: 9.256 ppbv
RT: 7.428 min Scan# 2268
Delta R.T. 0.048 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion:129 Resp: 266192

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.3 | 39.1 | 117.2 |



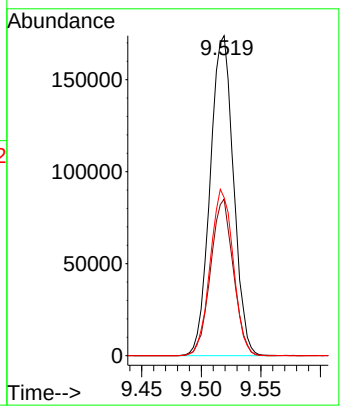


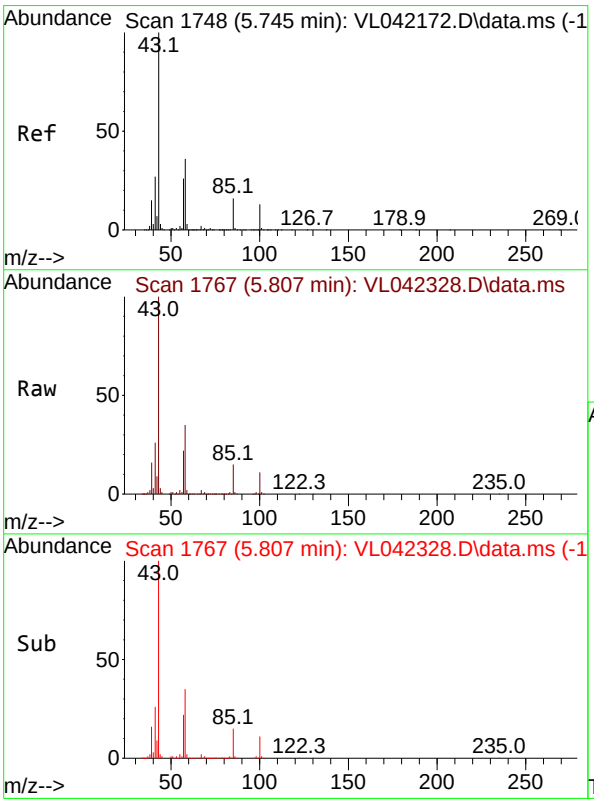

#49
Bromoform
Concen: 9.168 ppbv
RT: 9.519 min Scan# 2
Delta R.T. 0.042 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

Tgt Ion:173 Resp: 236686

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 47.8 | 38.6 | 57.8 |
| 171 | 51.4 | 41.8 | 62.6 |

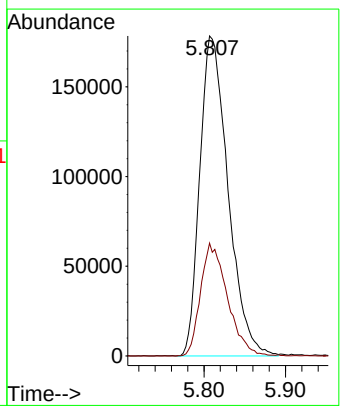


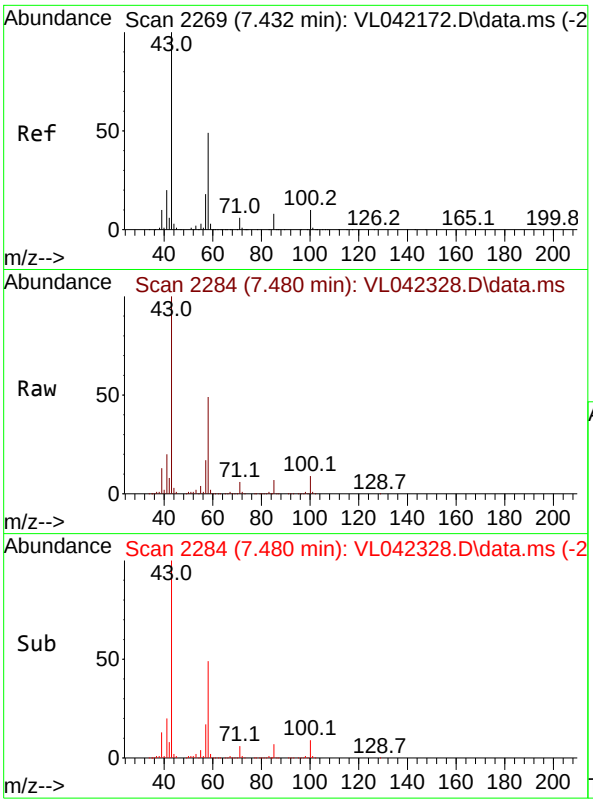




#50
4-Methyl-2-Pentanone
Concen: 8.416 ppbv
RT: 5.807 min Scan# 1767
Delta R.T. 0.061 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 43 Resp: 429988

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 33.5 | 29.0 | 43.6 |



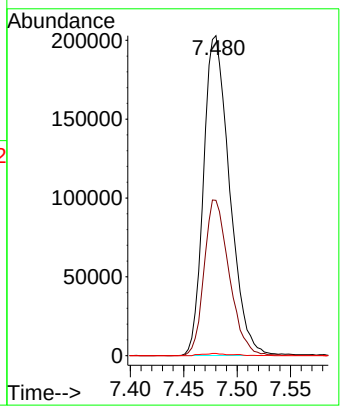


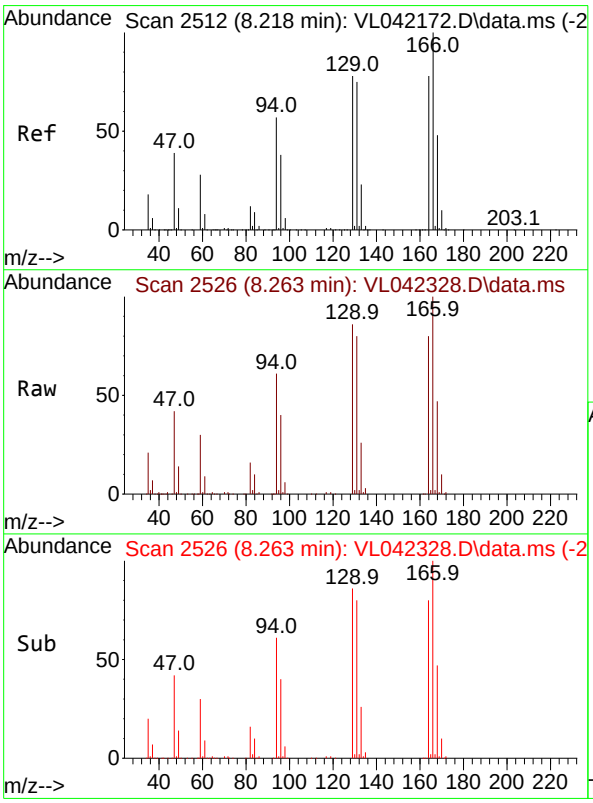

#51
2-Hexanone
Concen: 8.203 ppbv
RT: 7.480 min Scan# 2
Delta R.T. 0.048 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

Tgt Ion: 43 Resp: 344172

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 47.1 | 39.7 | 59.5 |
| 98 | 0.8 | 0.1 | 0.1# |

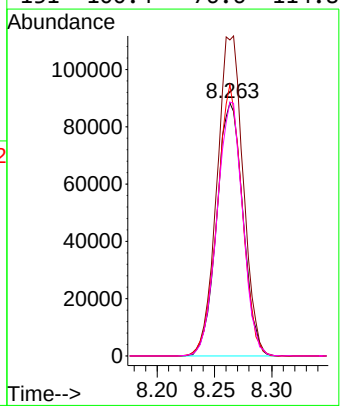


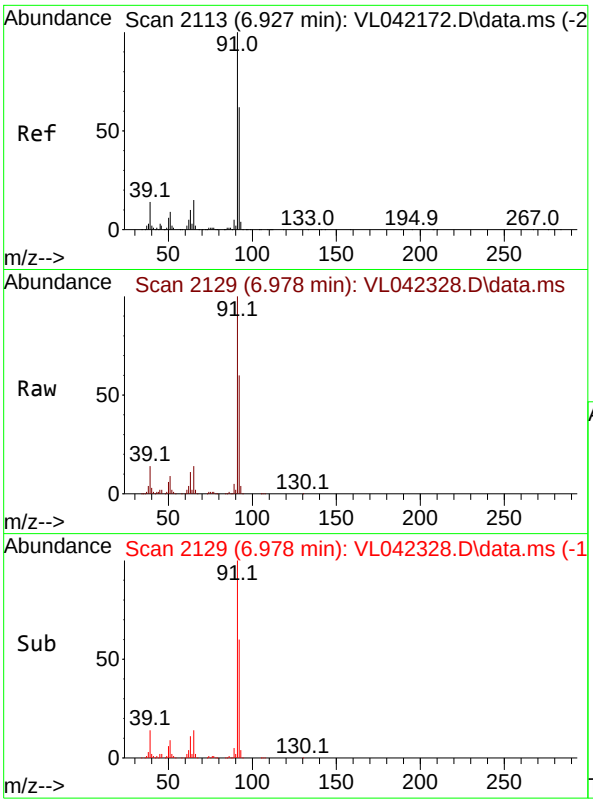




#52
Tetrachloroethene
Concen: 8.000 ppbv
RT: 8.263 min Scan# 2526
Delta R.T. 0.045 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion:164 Resp: 139845

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 124.9 | 102.5 | 153.7 |
| 129 | 107.2 | 79.8 | 119.8 |
| 131 | 100.4 | 76.6 | 114.8 |



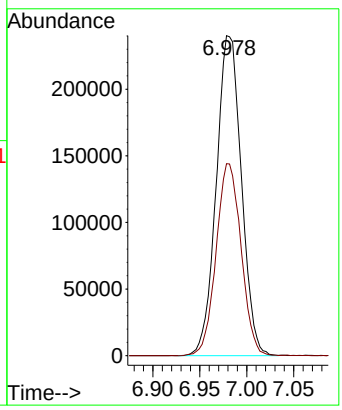


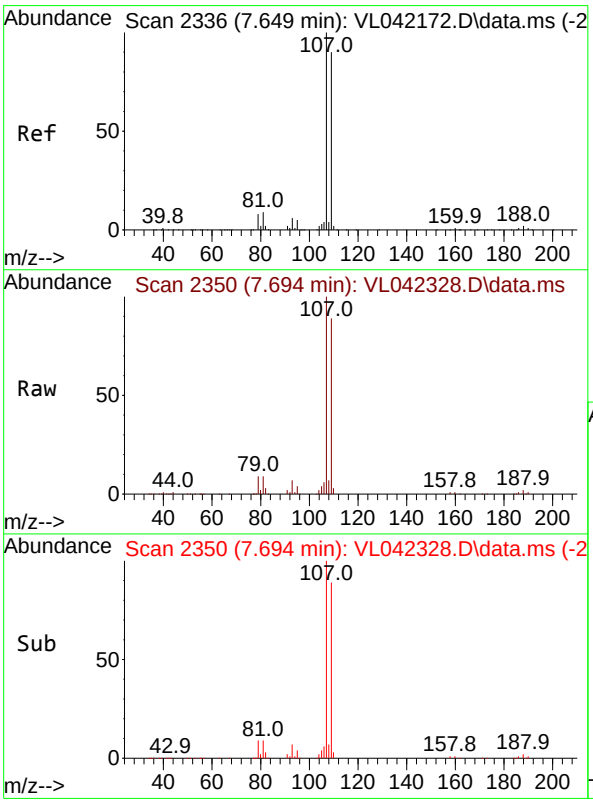

#53
Toluene
Concen: 8.559 ppbv
RT: 6.978 min Scan# 21
Delta R.T. 0.052 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

Tgt Ion: 91 Resp: 447178

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 59.6 | 48.4 | 72.6 |

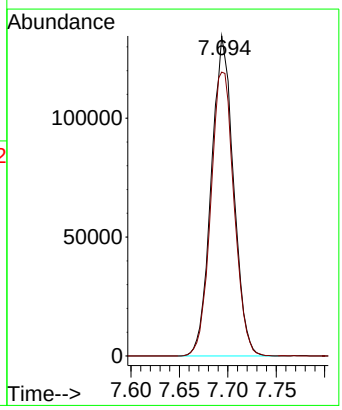


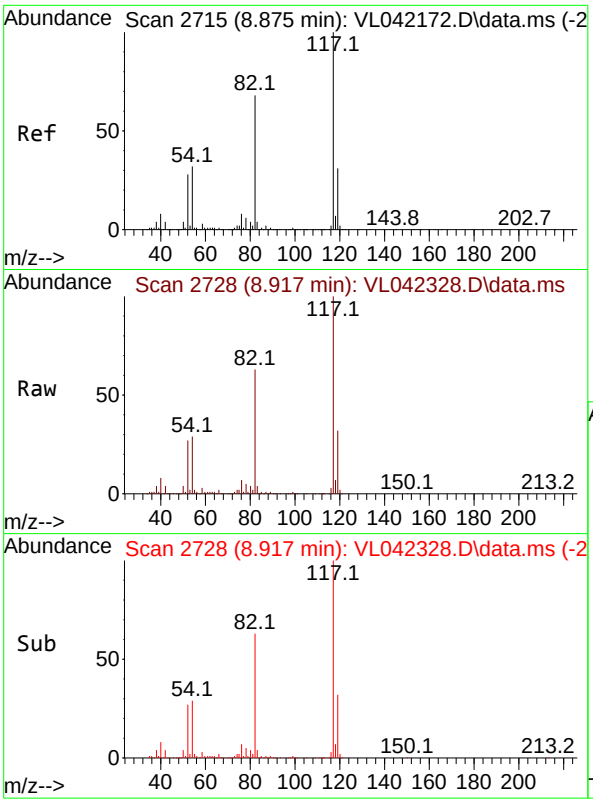




#54
1,2-Dibromoethane
Concen: 9.089 ppbv
RT: 7.694 min Scan# 2350
Delta R.T. 0.045 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion:107 Resp: 214982

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 88.7 | 72.2 | 108.4 |



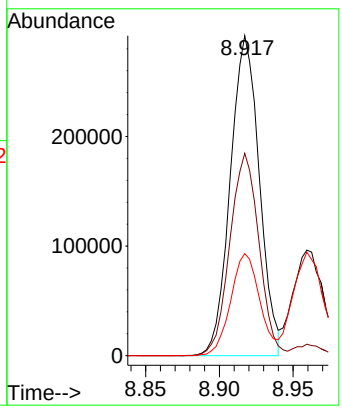


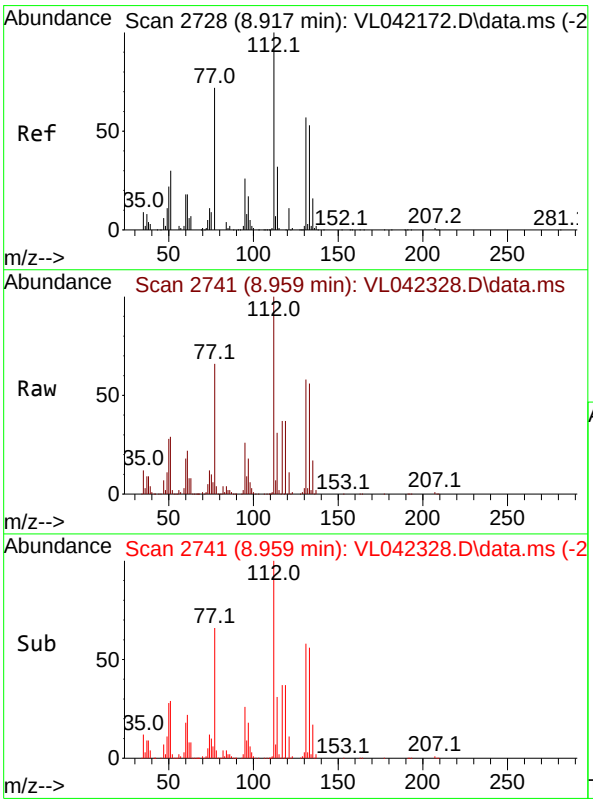

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.917 min Scan# 2
Delta R.T. 0.042 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

Tgt Ion:117 Resp: 399604

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 66.8 | 55.8 | 83.6 |
| 119 | 32.4 | 25.5 | 38.3 |

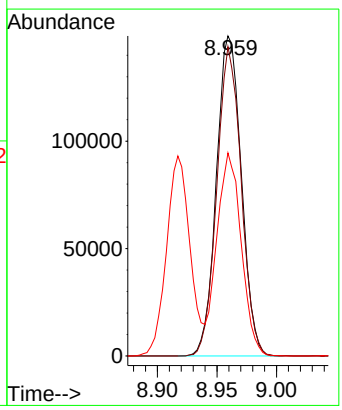


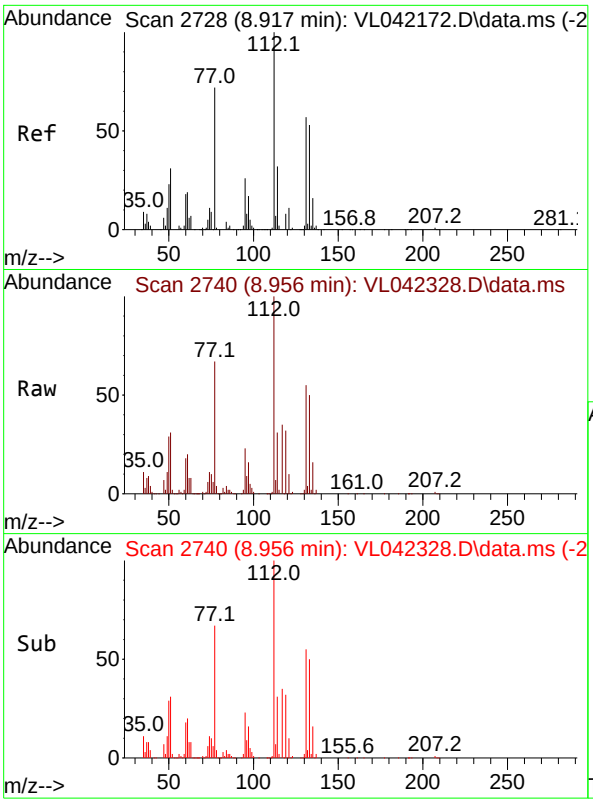




#56
1,1,1,2-Tetrachloroethane
Concen: 9.855 ppbv
RT: 8.959 min Scan# 2741
Delta R.T. 0.042 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion:131 Resp: 216770

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.3 | 76.6 | 114.8 |
| 119 | 59.8 | 49.8 | 74.6 |



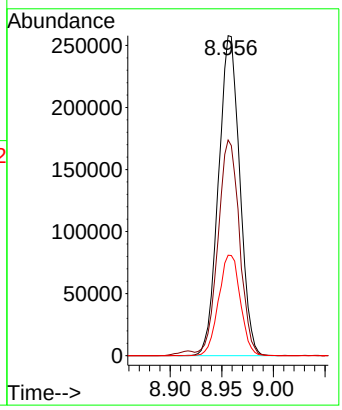


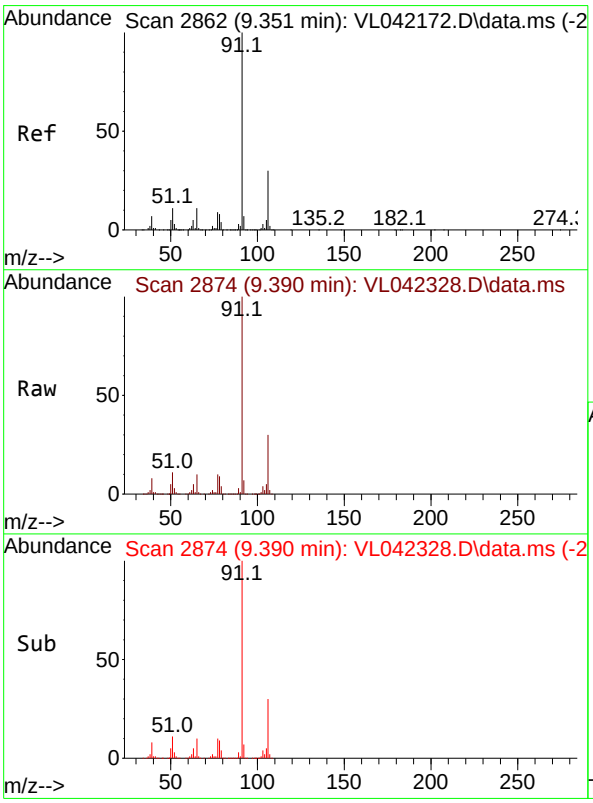

#57
Chlorobenzene
Concen: 9.739 ppbv
RT: 8.956 min Scan# 2
Delta R.T. 0.039 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

Tgt Ion:112 Resp: 369132

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 67.4 | 58.2 | 87.2 |
| 114 | 31.4 | 29.1 | 35.5 |

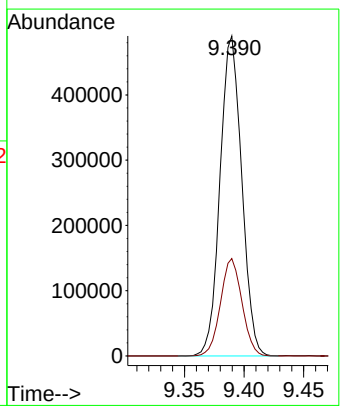


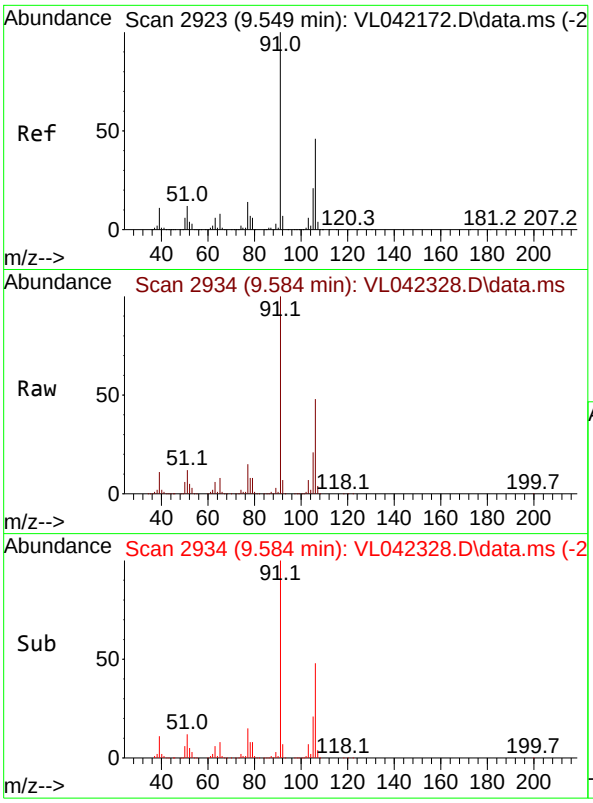




#58
Ethyl Benzene
Concen: 8.716 ppbv
RT: 9.390 min Scan# 2874
Delta R.T. 0.039 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 91 Resp: 618669

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.4 | 24.2 | 36.2 |



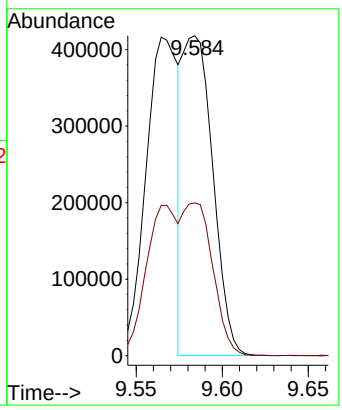


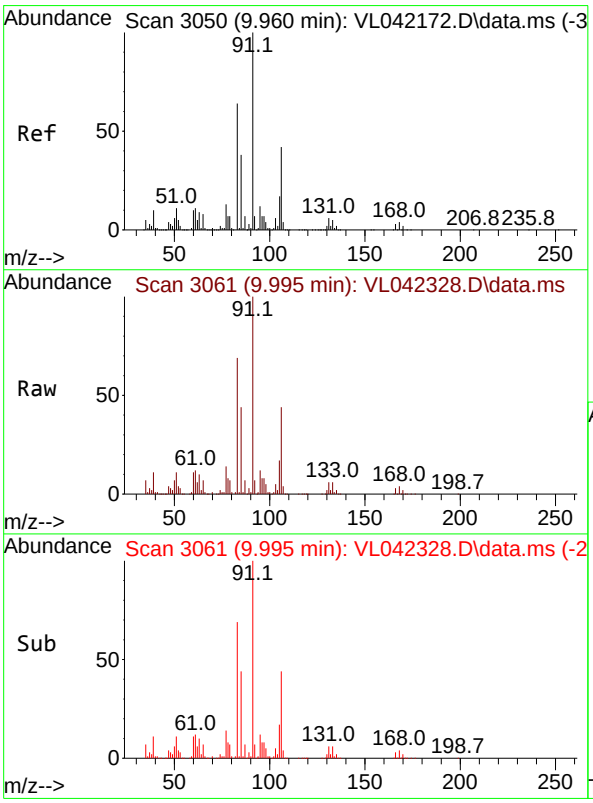

#59
m/p-Xylene
Concen: 9.001 ppbv
RT: 9.584 min Scan# 2
Delta R.T. 0.035 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

Tgt Ion: 91 Resp: 510187

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 97.2 | 36.4 | 54.6# |

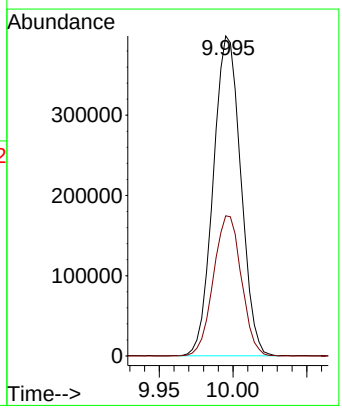


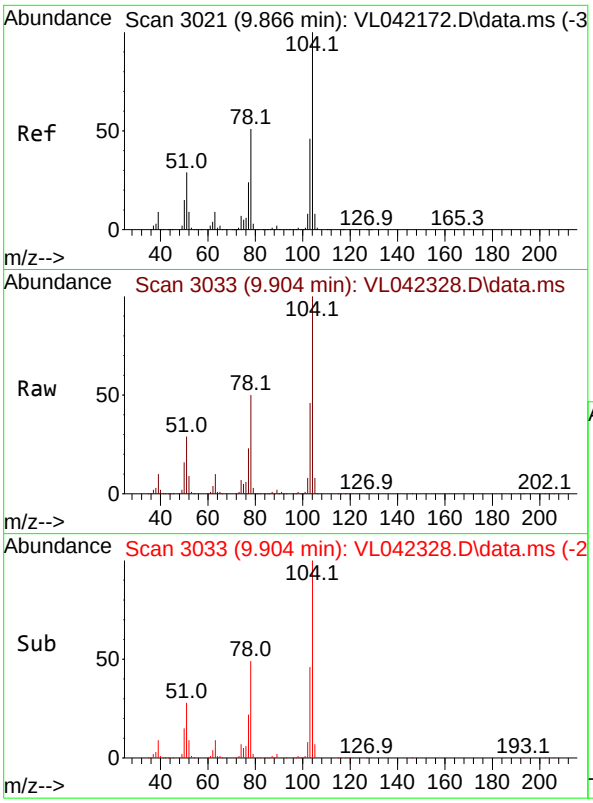




#60
o-Xylene
Concen: 9.107 ppbv
RT: 9.995 min Scan# 3061
Delta R.T. 0.035 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 91 Resp: 517471

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 44.5 | 20.8 | 62.5 |



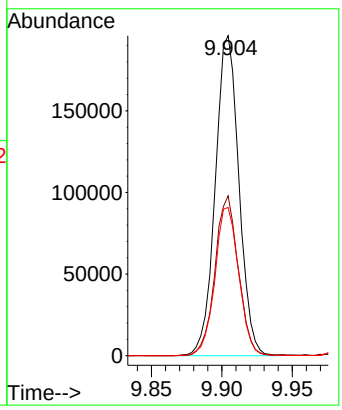


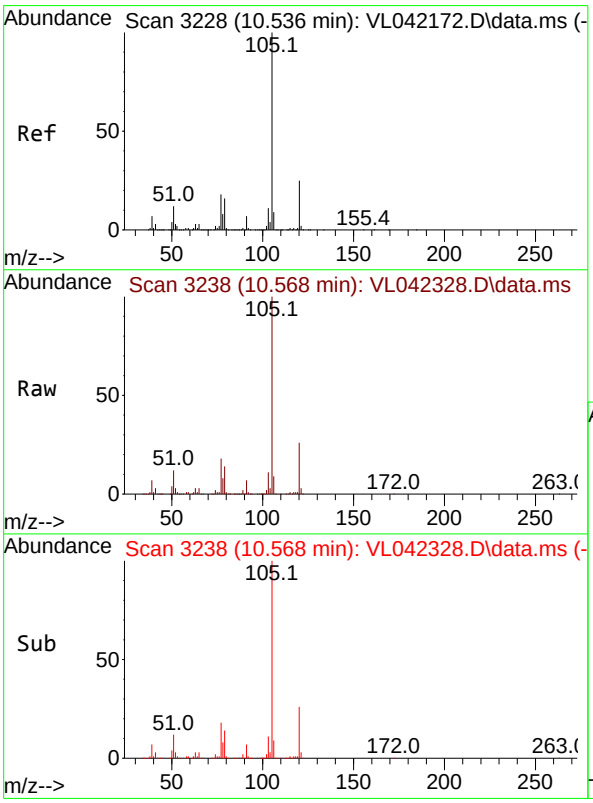

#61
Styrene
Concen: 8.168 ppbv
RT: 9.904 min Scan# 3
Delta R.T. 0.039 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

Tgt Ion:104 Resp: 229601

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 49.5 | 41.8 | 62.6 |
| 103 | 47.0 | 37.0 | 55.4 |

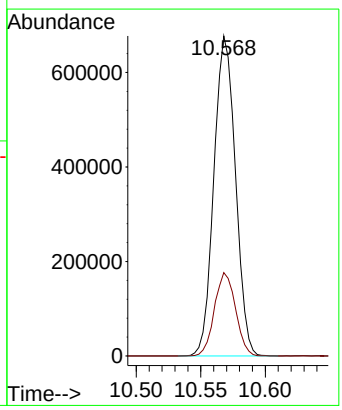


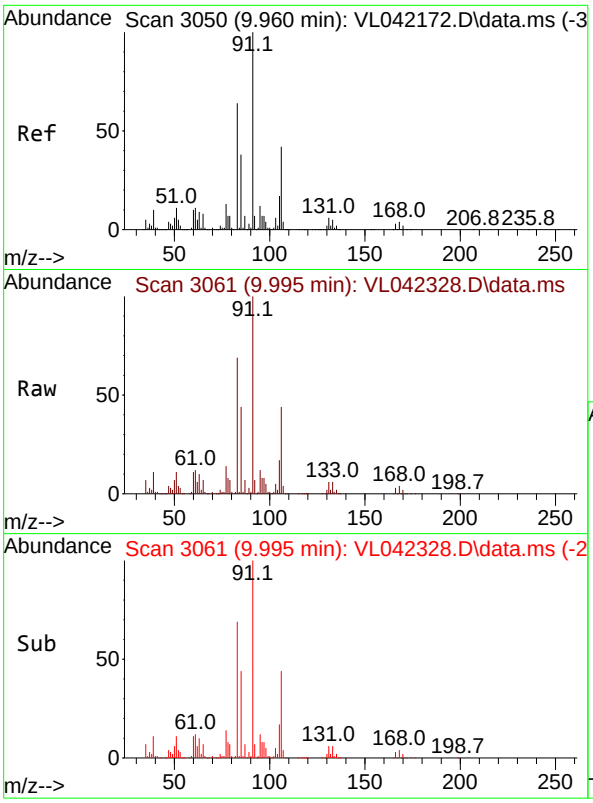




#62
Isopropylbenzene
Concen: 9.247 ppbv
RT: 10.568 min Scan# 3238
Delta R.T. 0.032 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion:105 Resp: 785673

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.5 | 19.9 | 29.9 |



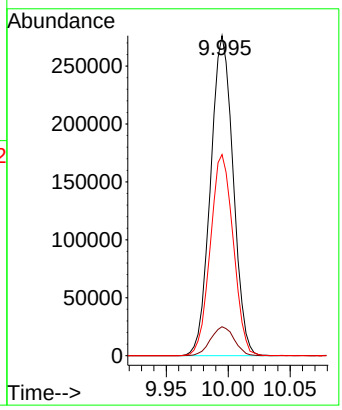


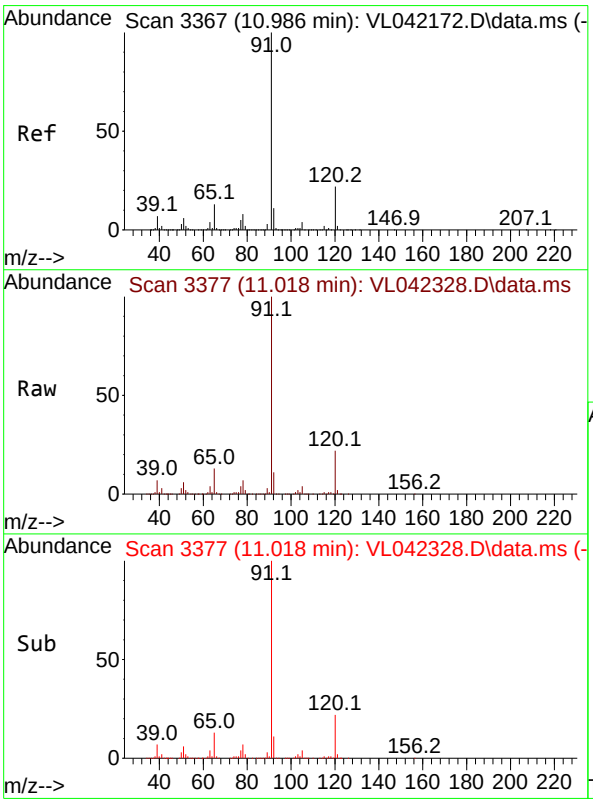

#63
1,1,2,2-Tetrachloroethane
Concen: 10.176 ppbv
RT: 9.995 min Scan# 3
Delta R.T. 0.035 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

Tgt Ion: 83 Resp: 351308

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.4 | 4.8 | 14.4 |
| 85 | 63.9 | 32.5 | 97.5 |

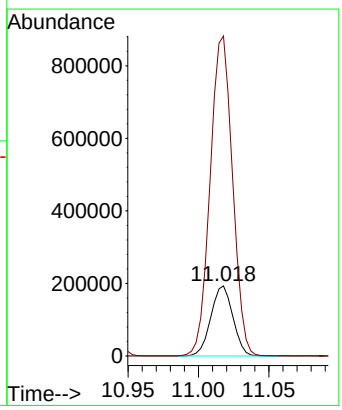


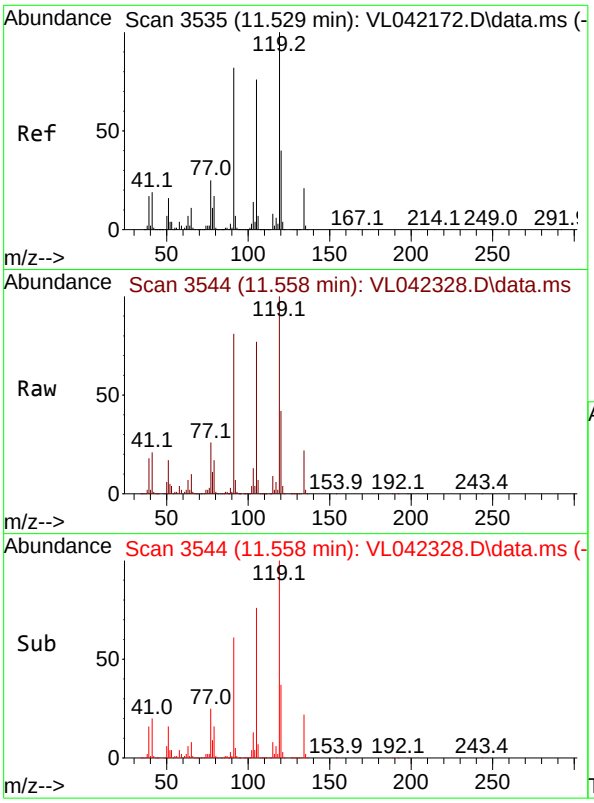




#64
n-propylbenzene
Concen: 9.615 ppbv
RT: 11.018 min Scan# 3377
Delta R.T. 0.032 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion:120 Resp: 210294

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 465.9 | 376.9 | 565.3 |



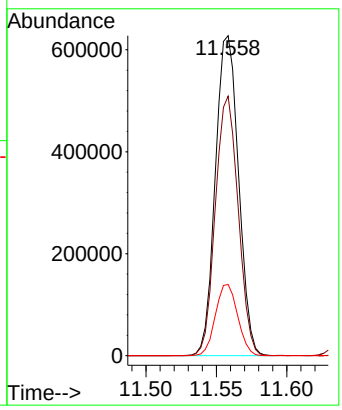


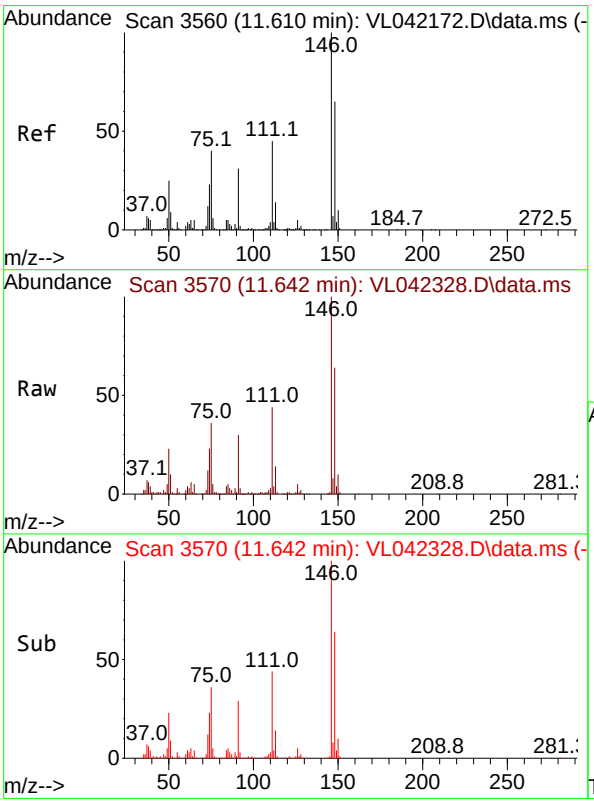

#65
tert-Butylbenzene
Concen: 9.149 ppbv
RT: 11.558 min Scan# 3
Delta R.T. 0.029 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

Tgt Ion:119 Resp: 718948

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 79.8 | 66.0 | 99.0 |
| 134 | 21.4 | 16.7 | 25.1 |

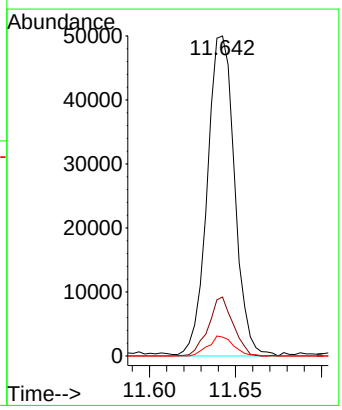


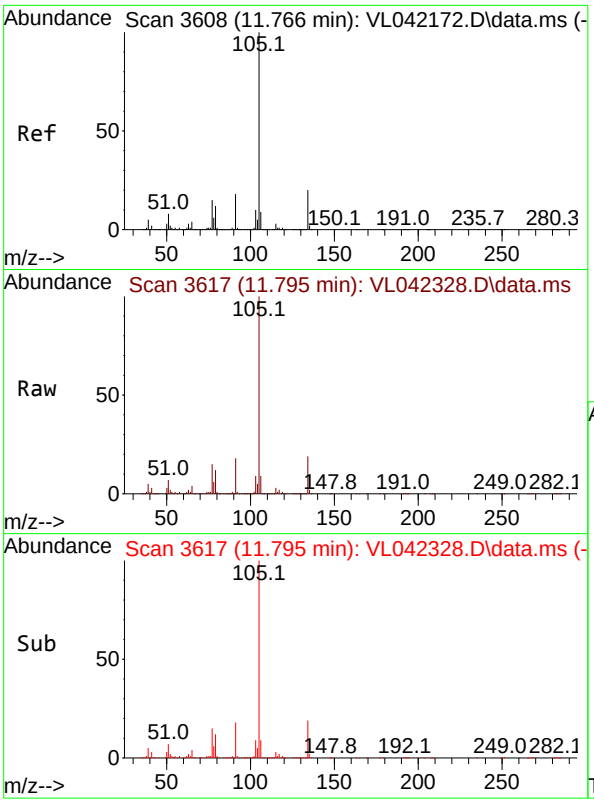




#66
Benzyl Chloride
Concen: 6.614 ppbv
RT: 11.642 min Scan# 3570
Delta R.T. 0.032 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 91 Resp: 55150

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 16.6 | 13.8 | 20.6 |
| 128 | 5.7 | 4.5 | 6.7 |



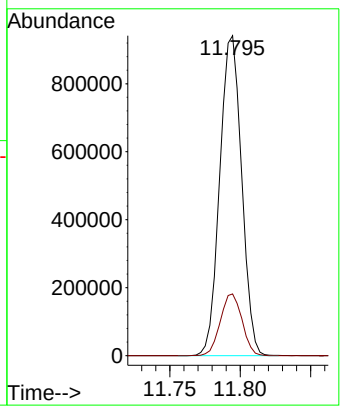


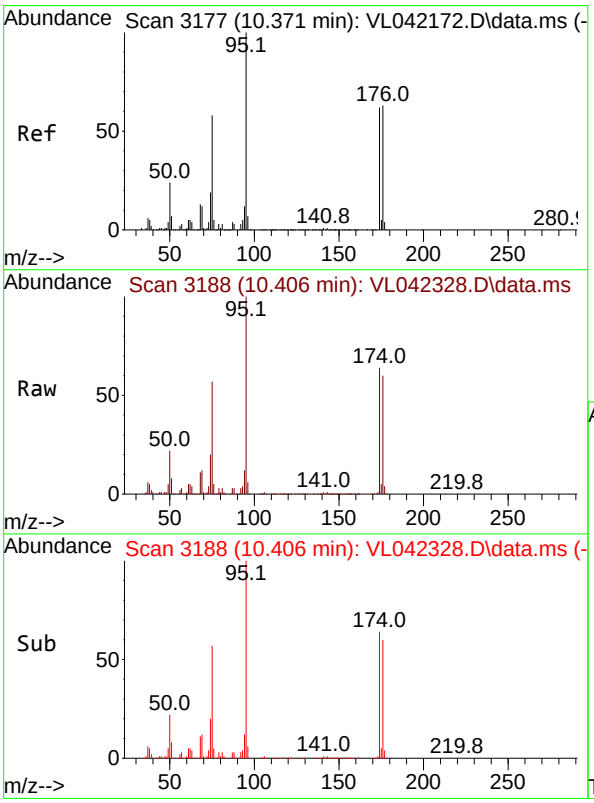

#67
sec-Butylbenzene
Concen: 9.328 ppbv
RT: 11.795 min Scan# 3
Delta R.T. 0.029 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

Tgt Ion:105 Resp: 1018861

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.2 | 15.5 | 23.3 |

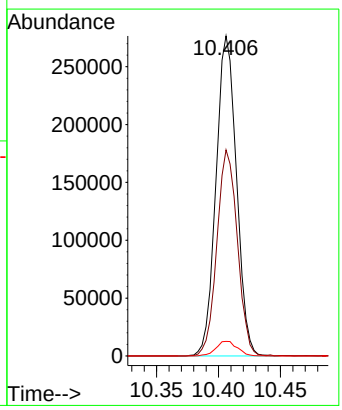


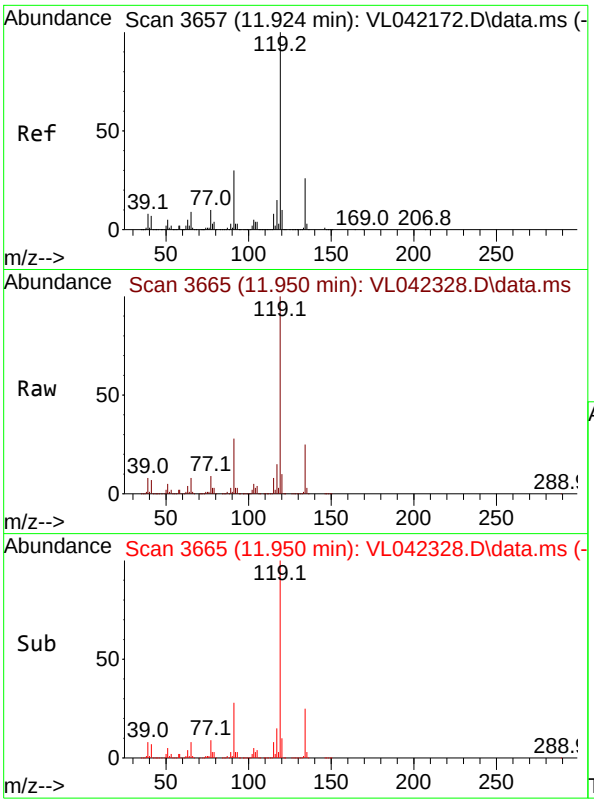




#68
1-Bromo-4-Fluorobenzene
Concen: 9.718 ppbv
RT: 10.406 min Scan# 3188
Delta R.T. 0.035 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 95 Resp: 318902

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 64.4 | 50.6 | 76.0 |
| 175 | 4.8 | 3.8 | 5.6 |



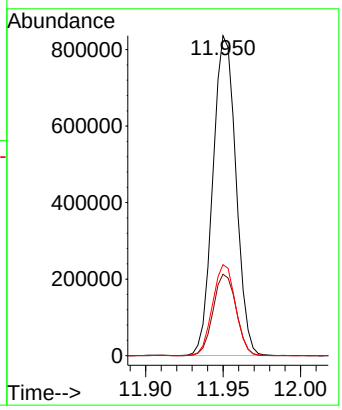


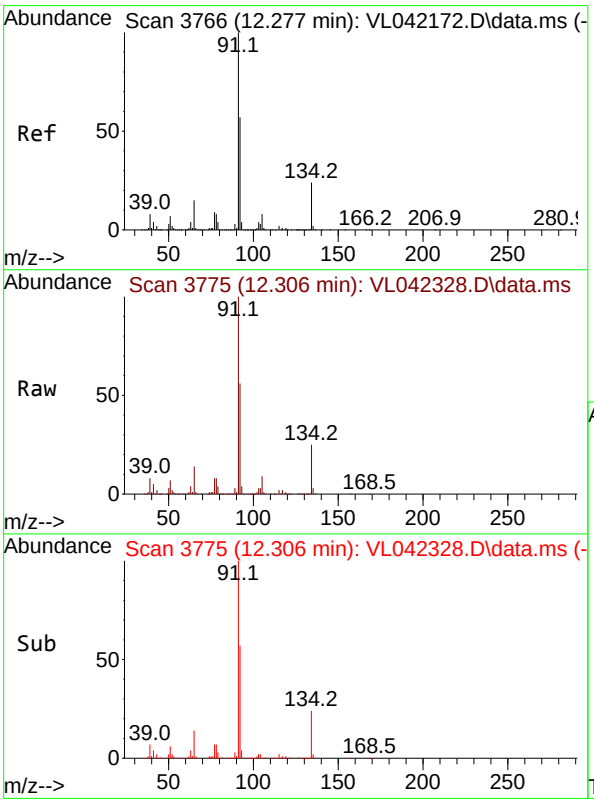

#69
p-Isopropyltoluene
Concen: 9.179 ppbv
RT: 11.950 min Scan# 3
Delta R.T. 0.026 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

Tgt Ion:119 Resp: 863264

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.6 | 20.4 | 30.6 |
| 91 | 28.5 | 23.7 | 35.5 |

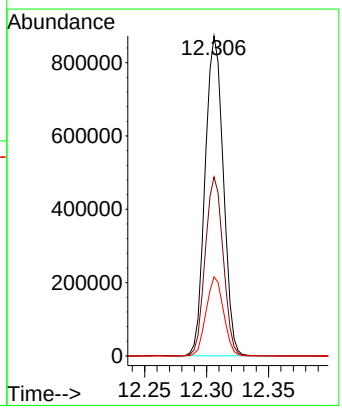


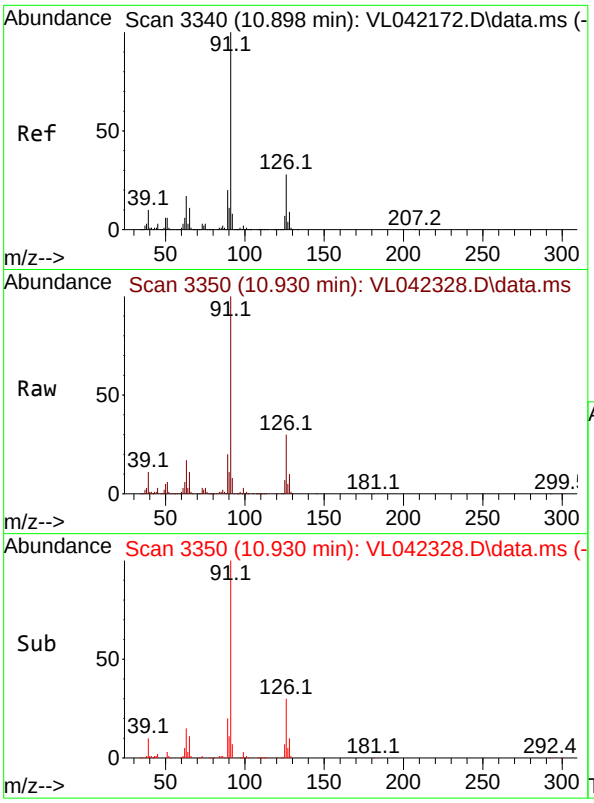




#70
n-Butylbenzene
Concen: 9.273 ppbv
RT: 12.306 min Scan# 3775
Delta R.T. 0.029 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion: 91 Resp: 891883

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 55.3 | 44.9 | 67.3 |
| 134 | 23.8 | 19.2 | 28.8 |



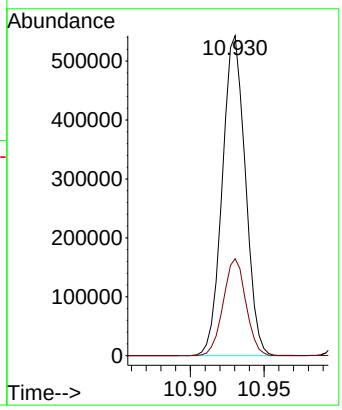


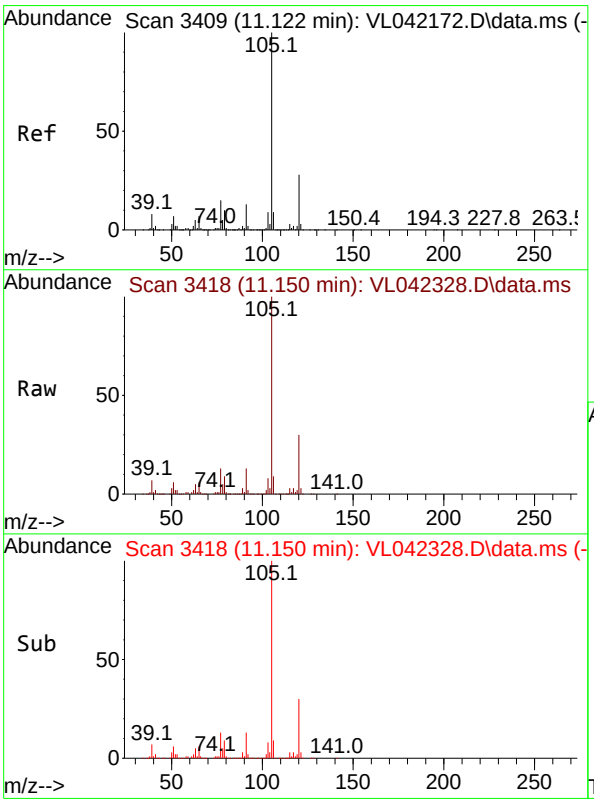

#71
2-Chlorotoluene
Concen: 8.953 ppbv
RT: 10.930 min Scan# 3
Delta R.T. 0.032 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

Tgt Ion: 91 Resp: 590408

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 29.8 | 11.6 | 46.4 |

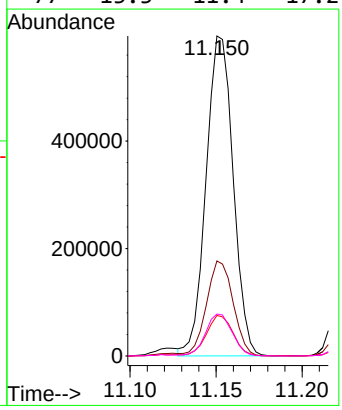


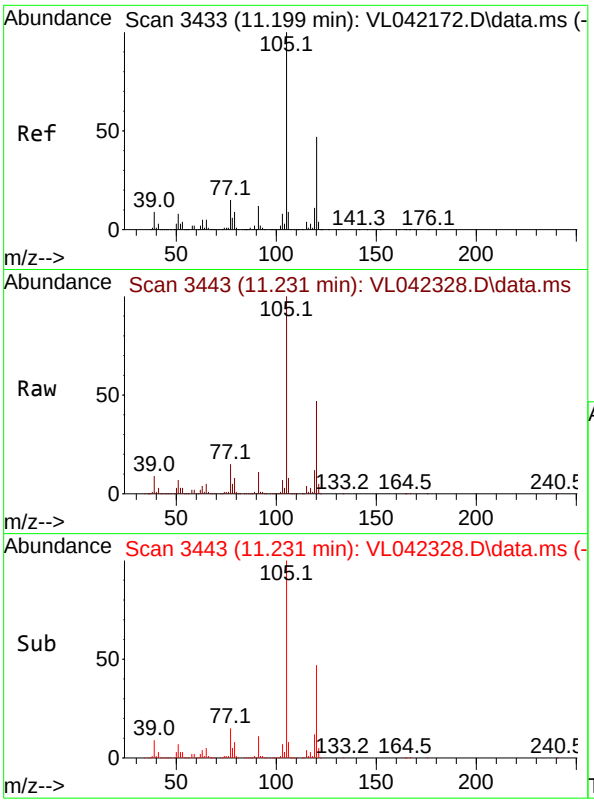




#72
4-Ethyltoluene
Concen: 9.230 ppbv
RT: 11.150 min Scan# 3418
Delta R.T. 0.029 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion:105 Resp: 652962

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 30.0 | 23.4 | 35.0 |
| 91 | 13.0 | 10.3 | 15.5 |
| 77 | 13.3 | 11.4 | 17.2 |



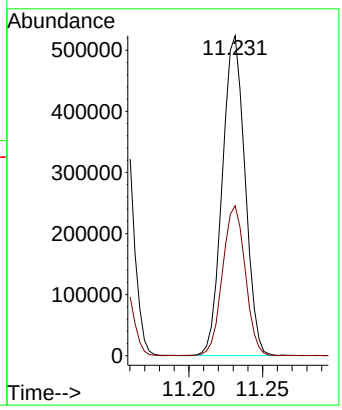


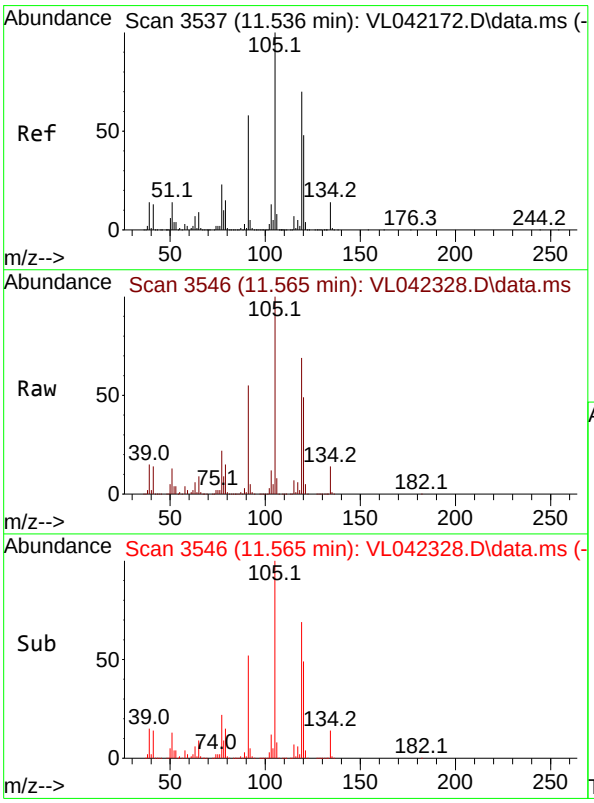

#73
1,3,5-Trimethylbenzene
Concen: 9.055 ppbv
RT: 11.231 min Scan# 34
Delta R.T. 0.032 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

Tgt Ion:105 Resp: 559451

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.8 | 37.4 | 56.0 |

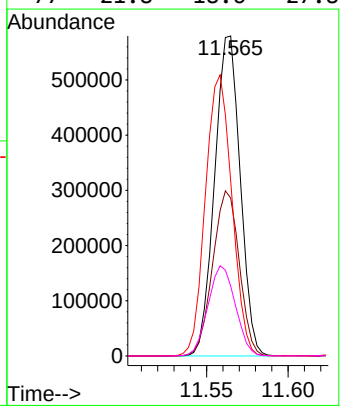


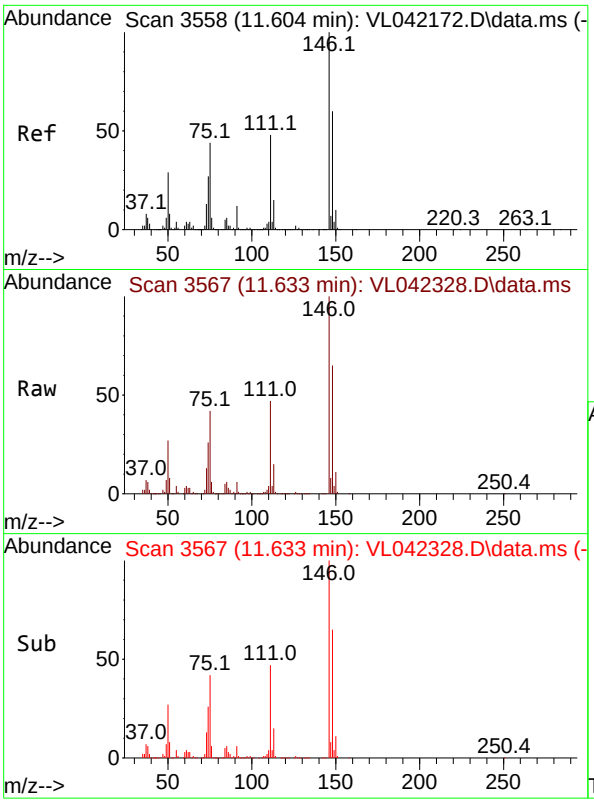




#74
1,2,4-Trimethylbenzene
Concen: 8.883 ppbv
RT: 11.565 min Scan# 3546
Delta R.T. 0.029 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion:105 Resp: 632271

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 49.3 | 38.6 | 58.0 |
| 91 | 54.7 | 46.2 | 69.2 |
| 77 | 21.8 | 18.6 | 27.8 |



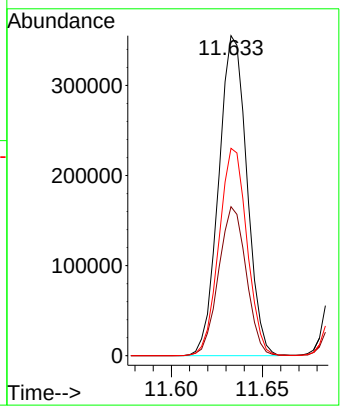


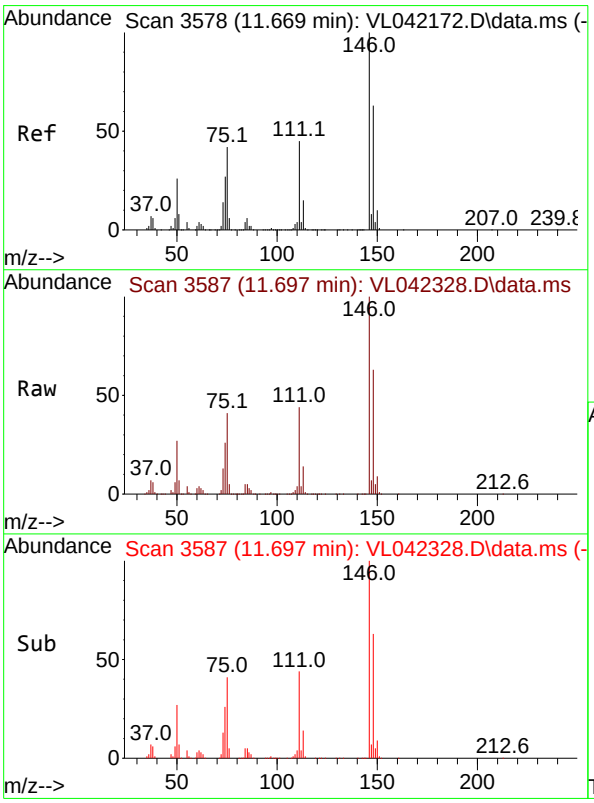

#75
1,3-Dichlorobenzene
Concen: 9.782 ppbv
RT: 11.633 min Scan# 3
Delta R.T. 0.029 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

Tgt Ion:146 Resp: 381882

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 45.7 | 23.8 | 71.2 |
| 148 | 64.5 | 31.9 | 95.9 |

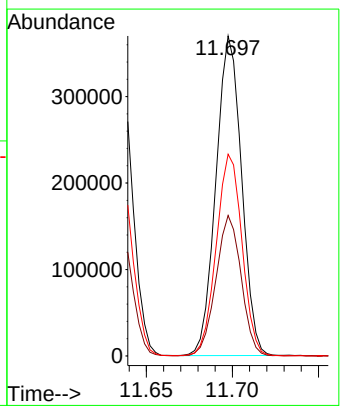


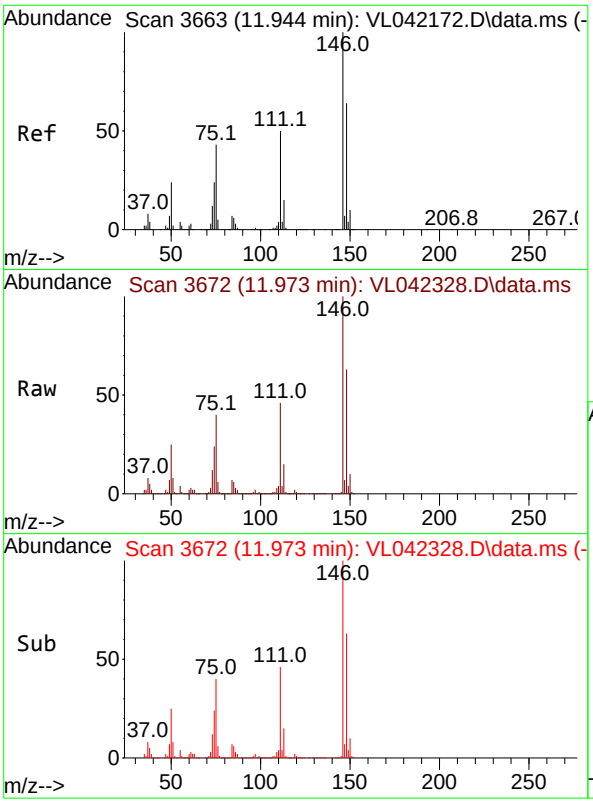




#76
1,4-Dichlorobenzene
Concen: 9.861 ppbv
RT: 11.697 min Scan# 3587
Delta R.T. 0.029 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion:146 Resp: 383116

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.4 | 23.0 | 69.0 |
| 148 | 63.6 | 31.9 | 95.7 |



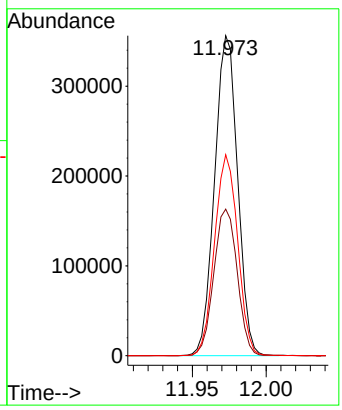


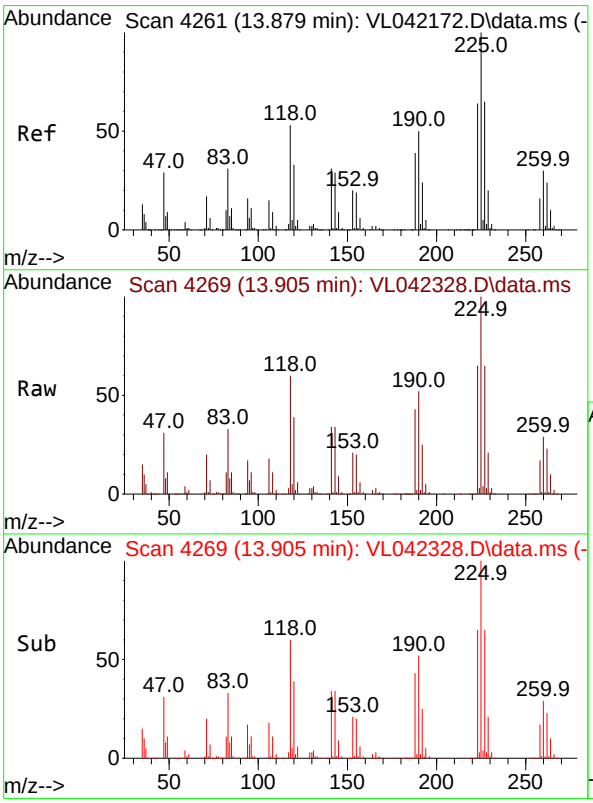

#77
1,2-Dichlorobenzene
Concen: 10.175 ppbv
RT: 11.973 min Scan# 3
Delta R.T. 0.029 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

Tgt Ion:146 Resp: 386768

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 46.7 | 24.8 | 74.3 |
| 148 | 63.1 | 31.6 | 94.8 |

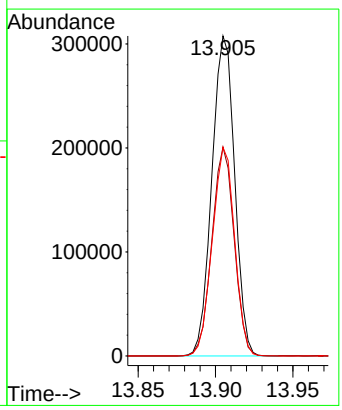


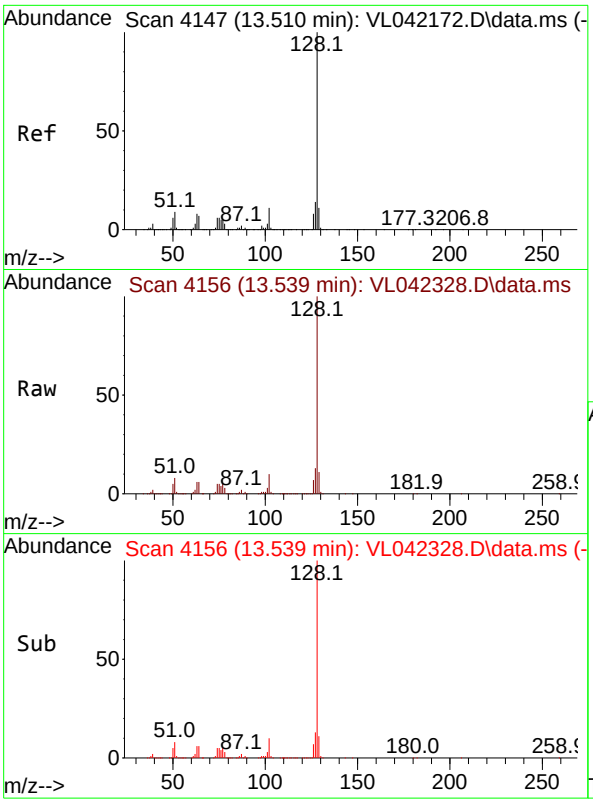




#78
Hexachloro-1,3-Butadiene
Concen: 8.138 ppbv
RT: 13.905 min Scan# 4269
Delta R.T. 0.026 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion:225 Resp: 314860

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.7 | 50.6 | 76.0 |
| 227 | 64.0 | 51.2 | 76.8 |



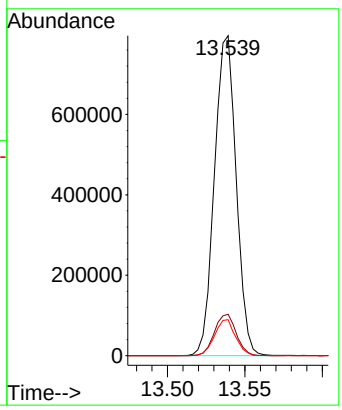


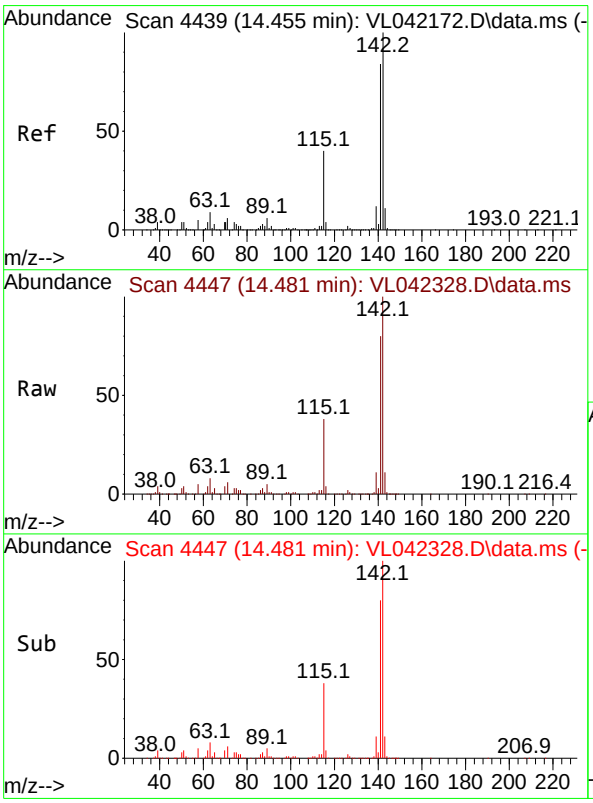

#79
Naphthalene
Concen: 9.989 ppbv
RT: 13.539 min Scan# 4
Delta R.T. 0.029 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

Tgt Ion:128 Resp: 777722

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.0 | 10.8 | 16.2 |
| 129 | 11.2 | 9.0 | 13.4 |

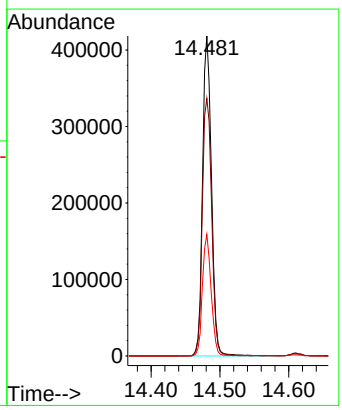


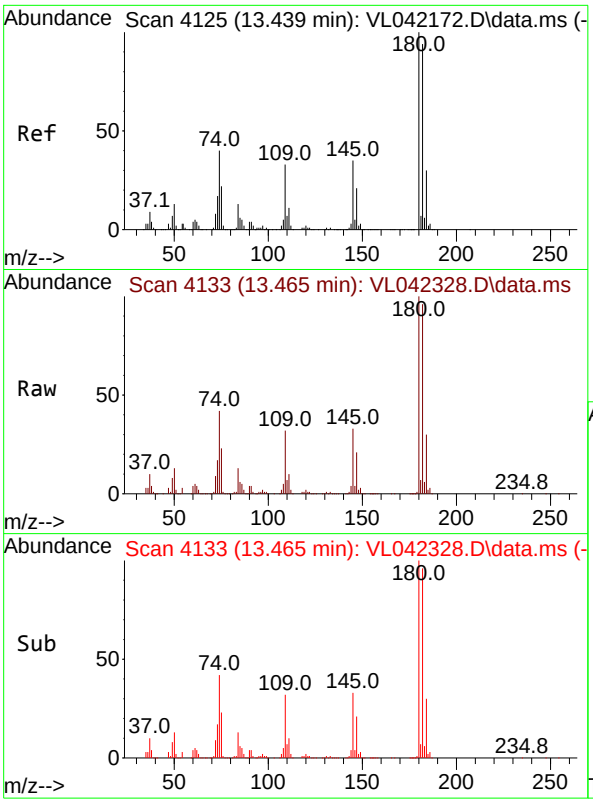




#80
Naphthalene,2-methyl-
Concen: 9.836 ppbv
RT: 14.481 min Scan# 4447
Delta R.T. 0.026 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

Tgt Ion:142 Resp: 375541

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 84.5 | 66.3 | 99.5 |
| 115 | 37.5 | 31.6 | 47.4 |



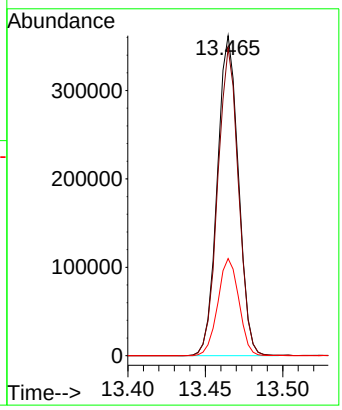



#81
1,2,4-Trichlorobenzene
Concen: 9.551 ppbv
RT: 13.465 min Scan# 4
Delta R.T. 0.026 min
Lab File: VL042328.D
Acq: 15 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0415ABS01

Tgt Ion:180 Resp: 343011

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.8 | 75.1 | 112.7 |
| 184 | 30.3 | 24.4 | 36.6 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
Data File : VL042332.D
Acq On : 15 Apr 2025 15:01
Operator : SY/MD
Sample : Q1665-10DL2 100X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025DL2

Quant Time: Apr 16 01:32:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 2.810 | 49 | 164444 | 10.000 | ppbv | | 0.03 |
| 33) 1,4-Difluorobenzene | 3.998 | 114 | 385228 | 10.000 | ppbv | | 0.05 |
| 55) Chlorobenzene-d5 | 8.917 | 117 | 327587 | 10.000 | ppbv | | 0.04 |
| System Monitoring Compounds | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.406 | 95 | 251001 | 9.330 | ppbv | | 0.04 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 93.300% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 9) Propene | 1.900 | 41 | 5702 | 0.502 | ppbv | | 98 |
| 13) Ethanol | 1.732 | 45 | 8531 | 7.938 | ppbv | | 83 |
| 15) Acetone | 1.848 | 43 | 26934 | 1.171 | ppbv | | 95 |
| 16) 1,3-Butadiene | 1.499 | 39 | 26482 | 2.358 | ppbv | # | 12 |
| 19) Isopropyl Alcohol | 1.900 | 45 | 55262 | 4.259 | ppbv | # | 34 |
| 20) Methylene Chloride | 2.075 | 84 | 1828 | 0.213 | ppbv | # | 78 |
| 23) Vinyl Acetate | 2.580 | 43 | 135118 | 13.574 | ppbv | # | 87 |
| 25) Ethyl Acetate | 2.580 | 43 | 135118 | 2.264 | ppbv | # | 76 |
| 28) Methyl tert-Butyl Ether | 2.583 | 73 | 1168 | 0.081 | ppbv | # | 1 |
| 34) 2-Butanone | 2.580 | 43 | 135118 | 4.837 | ppbv | | 97 |
| 39) 1,2-Dichloropropane | 3.994 | 63 | 99113 | 7.126 | ppbv | # | 23 |

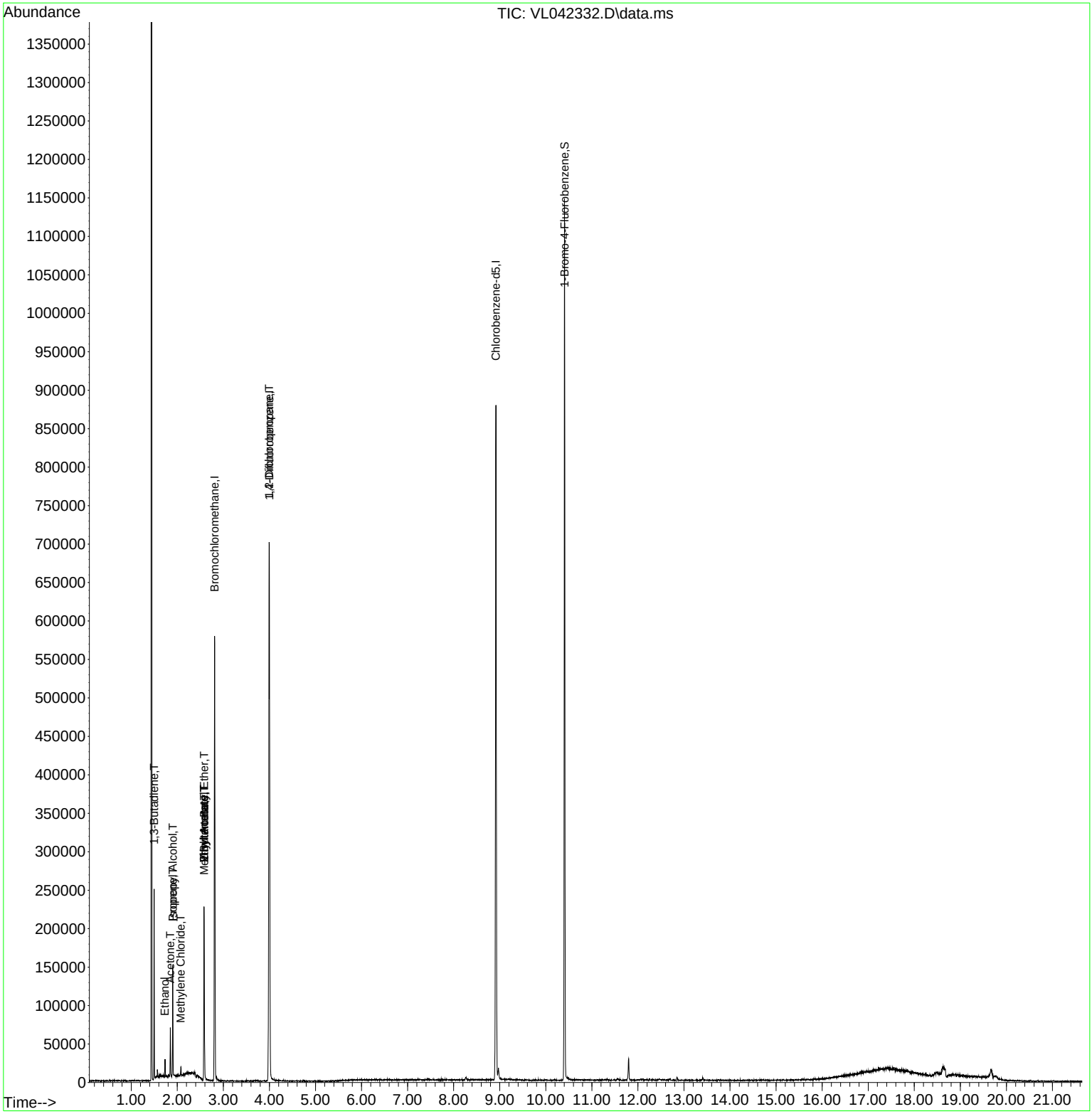
(#) = qualifier out of range (m) = manual integration (+) = signals summed

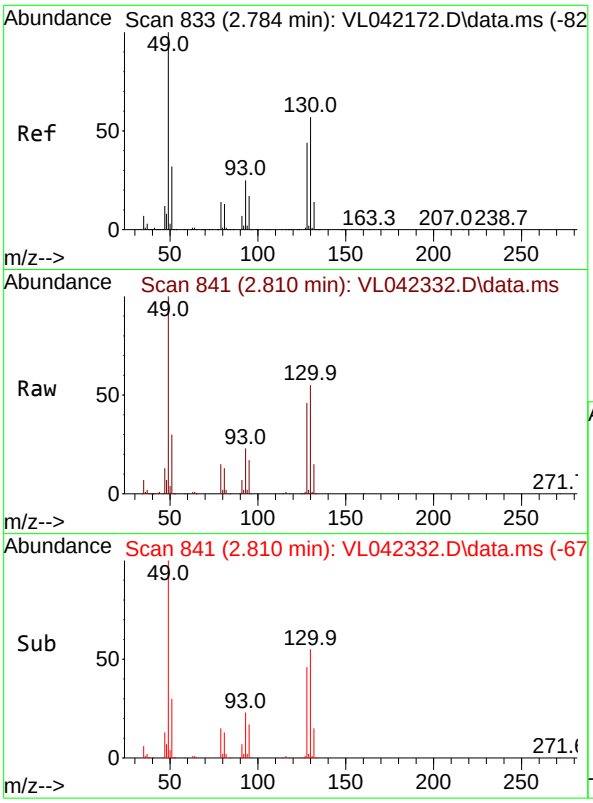
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
Data File : VL042332.D
Acq On : 15 Apr 2025 15:01
Operator : SY/MD
Sample : Q1665-10DL2 100X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025DL2

Quant Time: Apr 16 01:32:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration



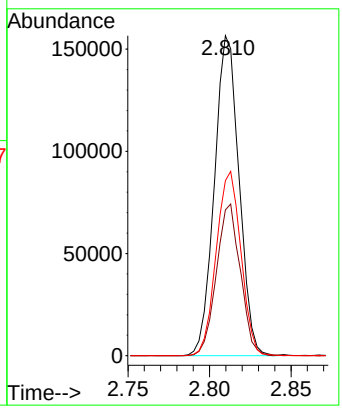


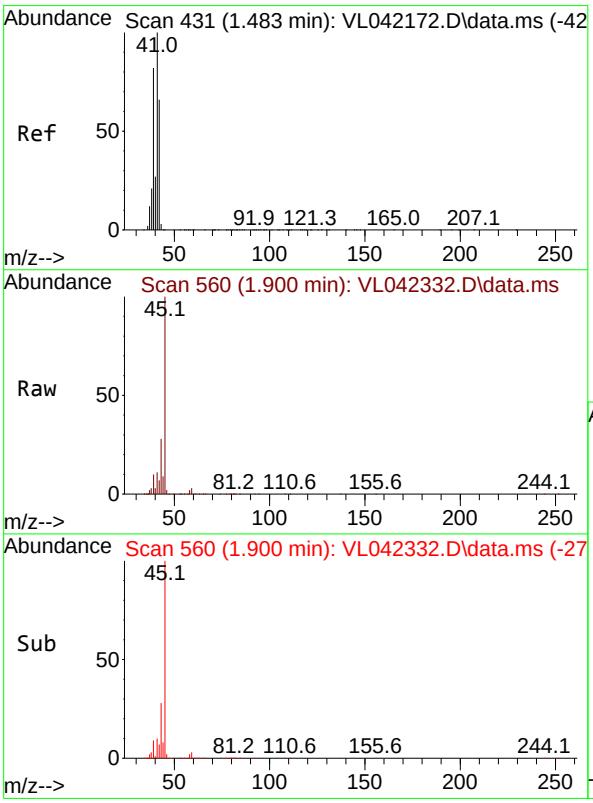

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.810 min Scan# 84
Delta R.T. 0.026 min
Lab File: VL042332.D
Acq: 15 Apr 2025 15:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025DL2

Tgt Ion: 49 Resp: 164444

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 46.1 | 22.9 | 68.5 |
| 130 | 57.7 | 28.8 | 86.4 |

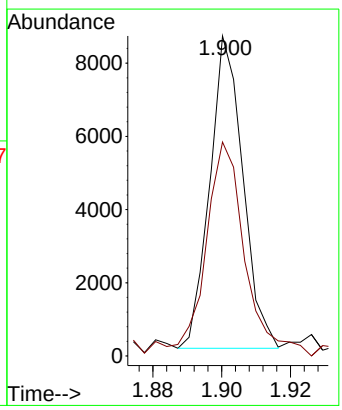


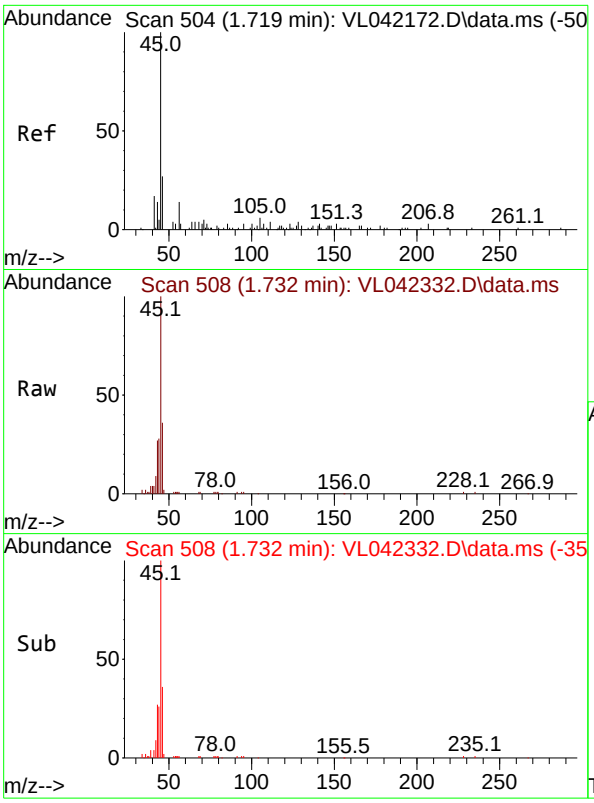




#9
Propene
Concen: 0.502 ppbv
RT: 1.900 min Scan# 560
Delta R.T. 0.417 min
Lab File: VL042332.D
Acq: 15 Apr 2025 15:01

Tgt Ion: 41 Resp: 5702

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 70.7 | 55.4 | 83.2 |



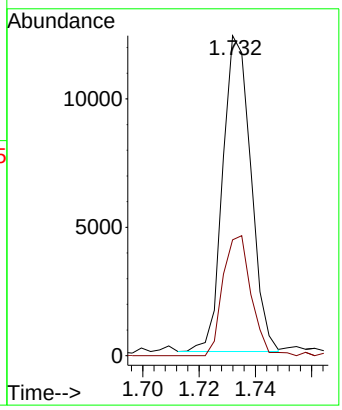


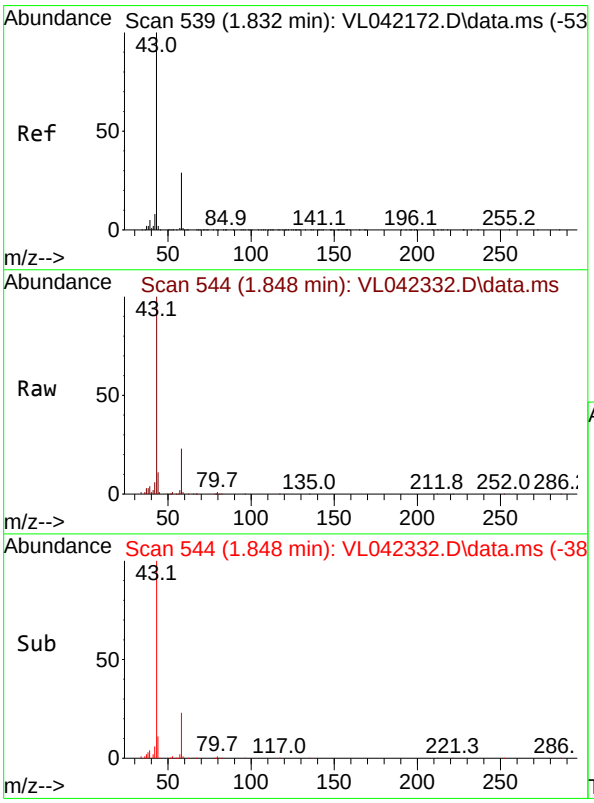

#13
Ethanol
Concen: 7.938 ppbv
RT: 1.732 min Scan# 5
Delta R.T. 0.013 min
Lab File: VL042332.D
Acq: 15 Apr 2025 15:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025DL2

Tgt Ion: 45 Resp: 8531

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 39.0 | 20.2 | 80.8 |

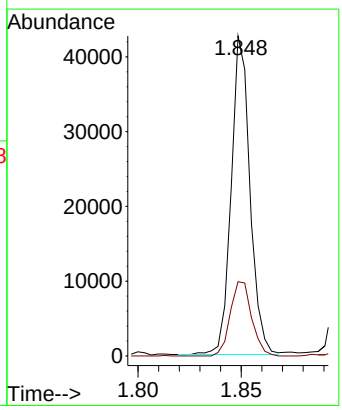


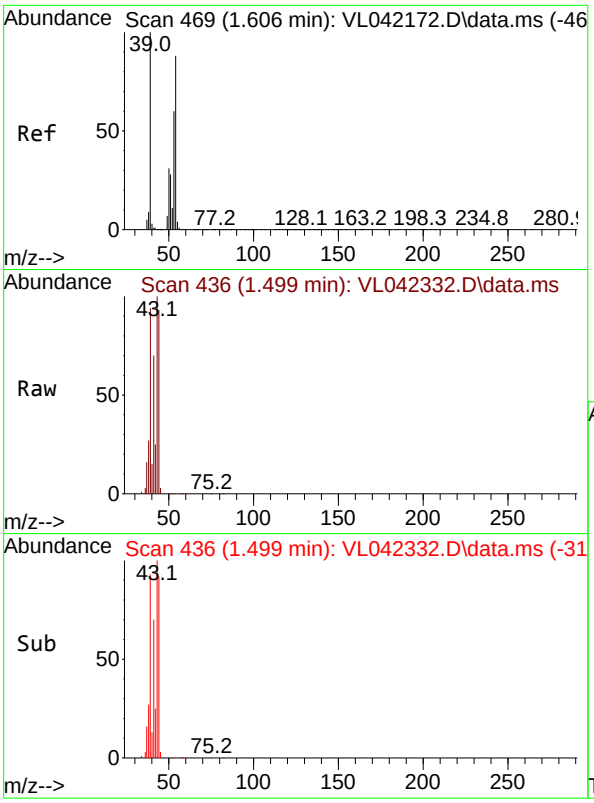




#15
Acetone
Concen: 1.171 ppbv
RT: 1.848 min Scan# 544
Delta R.T. 0.016 min
Lab File: VL042332.D
Acq: 15 Apr 2025 15:01

Tgt Ion: 43 Resp: 26934

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 26.6 | 23.2 | 34.8 |



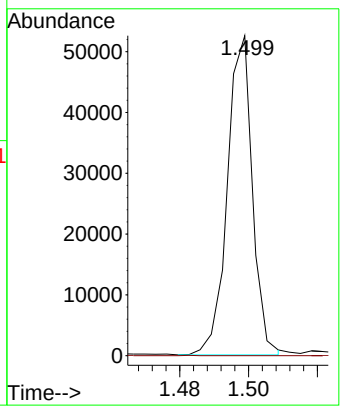


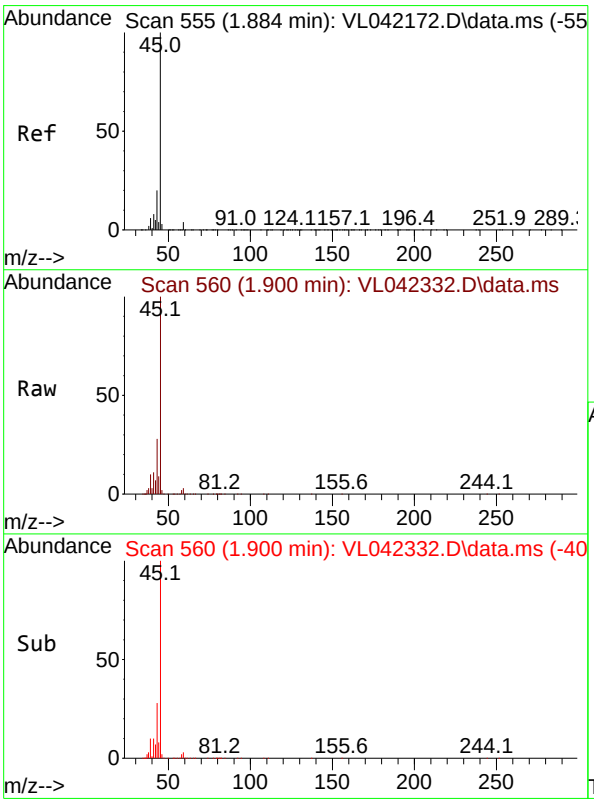

#16
1,3-Butadiene
Concen: 2.358 ppbv
RT: 1.499 min Scan# 4
Delta R.T. -0.107 min
Lab File: VL042332.D
Acq: 15 Apr 2025 15:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025DL2

Tgt Ion: 39 Resp: 26482

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 0.1 | 60.7 | 91.1# |

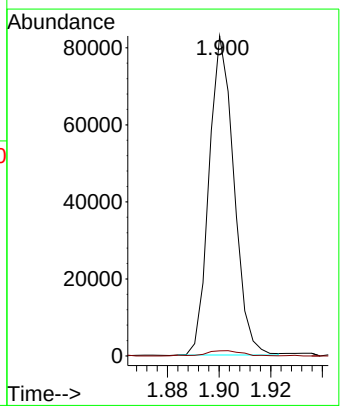


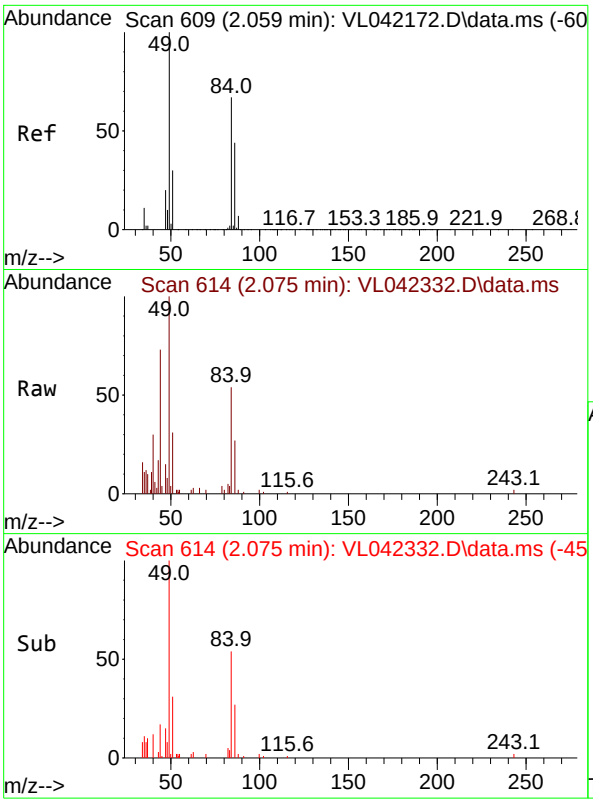




#19
Isopropyl Alcohol
Concen: 4.259 ppbv
RT: 1.900 min Scan# 560
Delta R.T. 0.016 min
Lab File: VL042332.D
Acq: 15 Apr 2025 15:01

Tgt Ion: 45 Resp: 55262

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 2.5 | 36.9 | 55.3# |



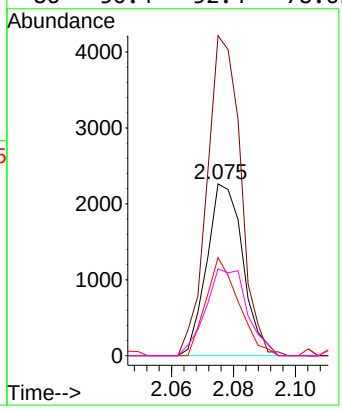


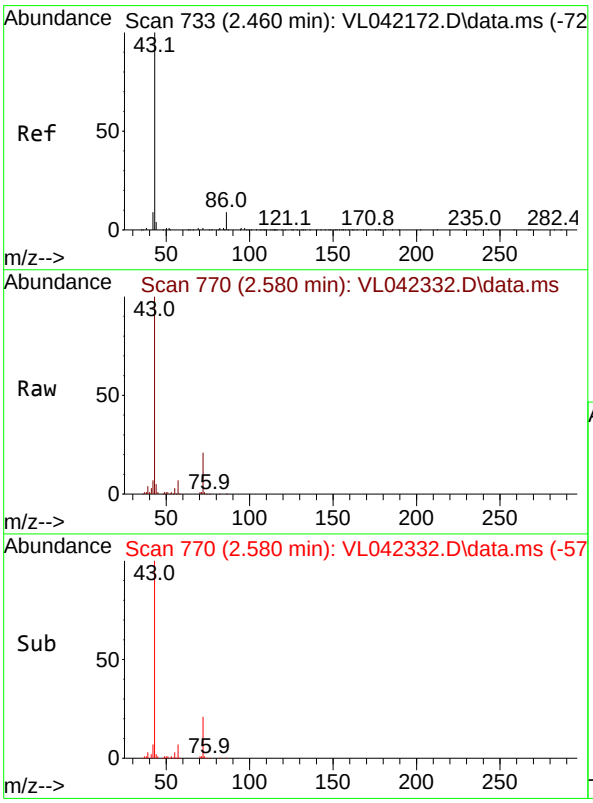

#20
Methylene Chloride
Concen: 0.213 ppbv
RT: 2.075 min Scan# 6
Delta R.T. 0.016 min
Lab File: VL042332.D
Acq: 15 Apr 2025 15:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025DL2

Tgt Ion: 84 Resp: 1828

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 182.7 | 120.2 | 180.4# |
| 51 | 57.1 | 37.4 | 56.0# |
| 86 | 50.4 | 52.4 | 78.6# |

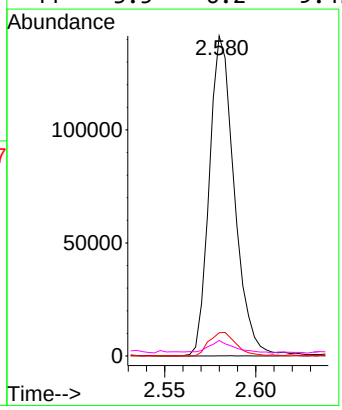


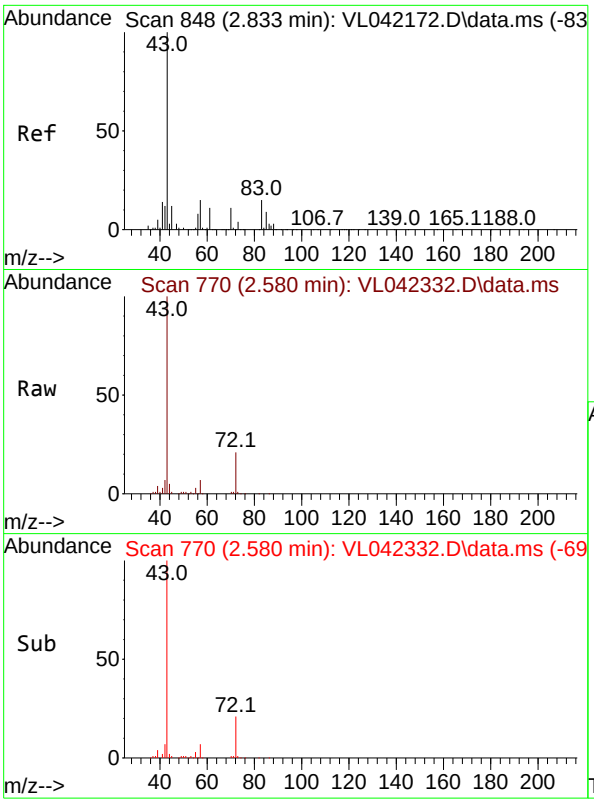




#23
Vinyl Acetate
Concen: 13.574 ppbv
RT: 2.580 min Scan# 770
Delta R.T. 0.120 min
Lab File: VL042332.D
Acq: 15 Apr 2025 15:01

Tgt Ion: 43 Resp: 135118

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 0.1 | 5.5 | 8.3# |
| 42 | 7.2 | 8.6 | 13.0# |
| 44 | 3.5 | 6.2 | 9.4# |



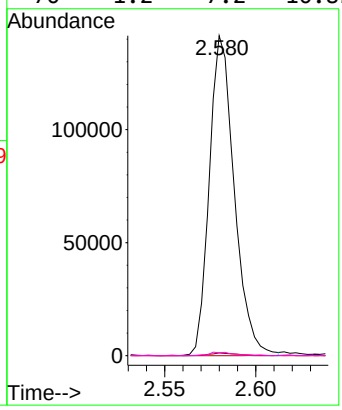


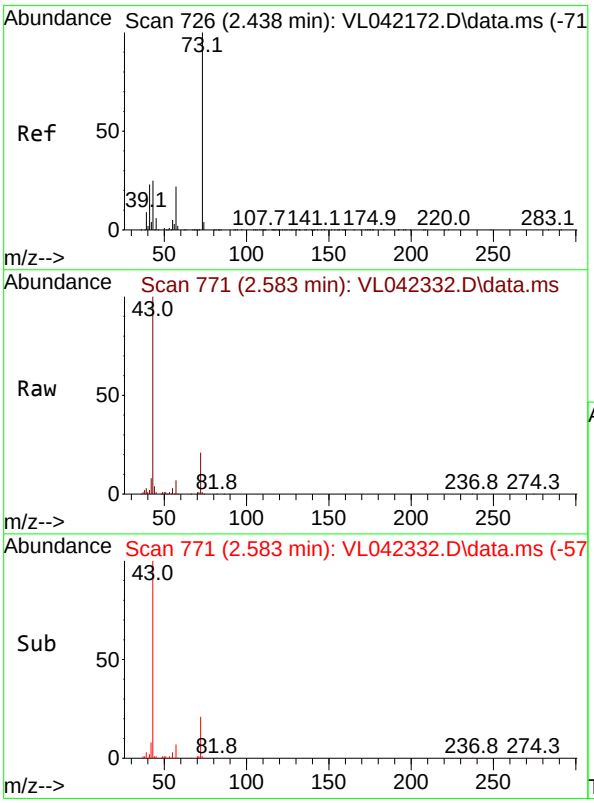

#25
Ethyl Acetate
Concen: 2.264 ppbv
RT: 2.580 min Scan# 7
Delta R.T. -0.253 min
Lab File: VL042332.D
Acq: 15 Apr 2025 15:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025DL2

Tgt Ion: 43 Resp: 135118

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 1.1 | 8.2 | 12.2# |
| 61 | 0.0 | 7.3 | 10.9# |
| 70 | 1.2 | 7.2 | 10.8# |

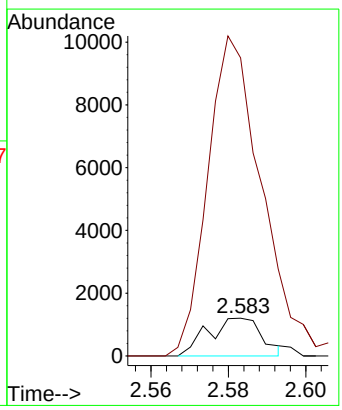


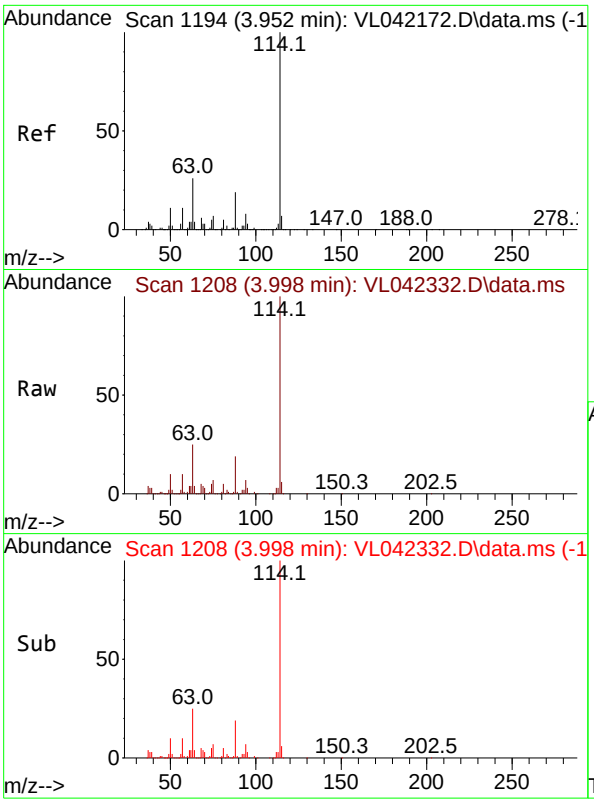




#28
Methyl tert-Butyl Ether
Concen: 0.081 ppbv
RT: 2.583 min Scan# 771
Delta R.T. 0.146 min
Lab File: VL042332.D
Acq: 15 Apr 2025 15:01

Tgt Ion: 73 Resp: 1168

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 849.7 | 20.5 | 30.7# |



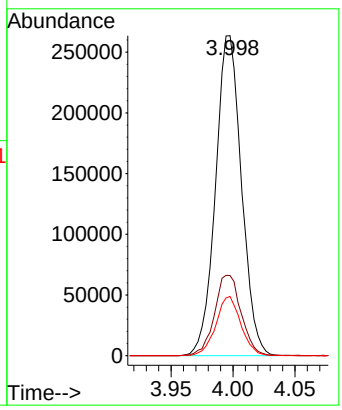


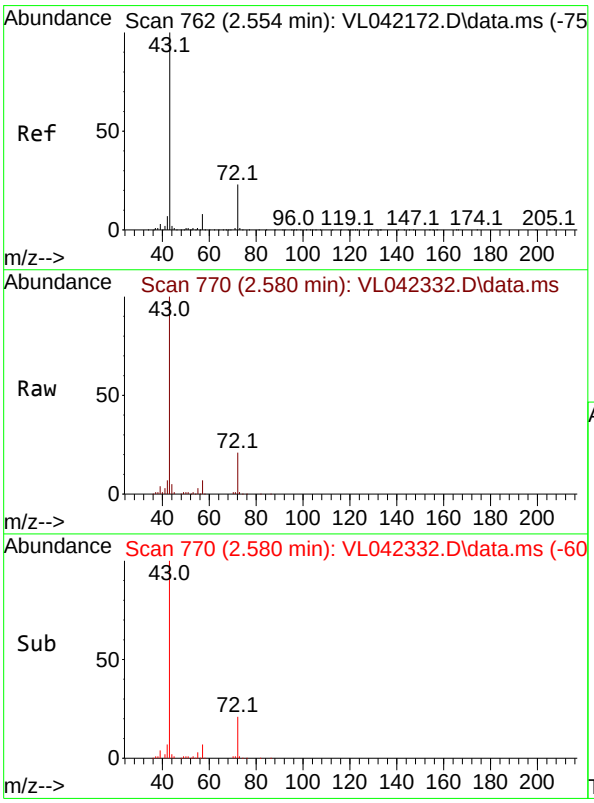

#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.998 min Scan# 1
Delta R.T. 0.045 min
Lab File: VL042332.D
Acq: 15 Apr 2025 15:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025DL2

Tgt Ion:114 Resp: 385228

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.9 | 20.7 | 31.1 |
| 88 | 17.9 | 15.0 | 22.4 |

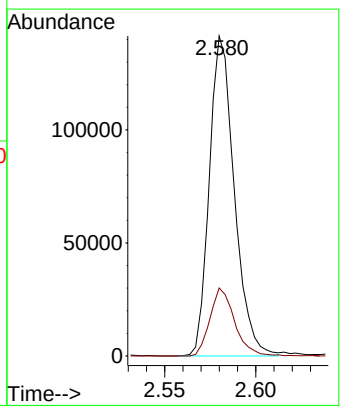


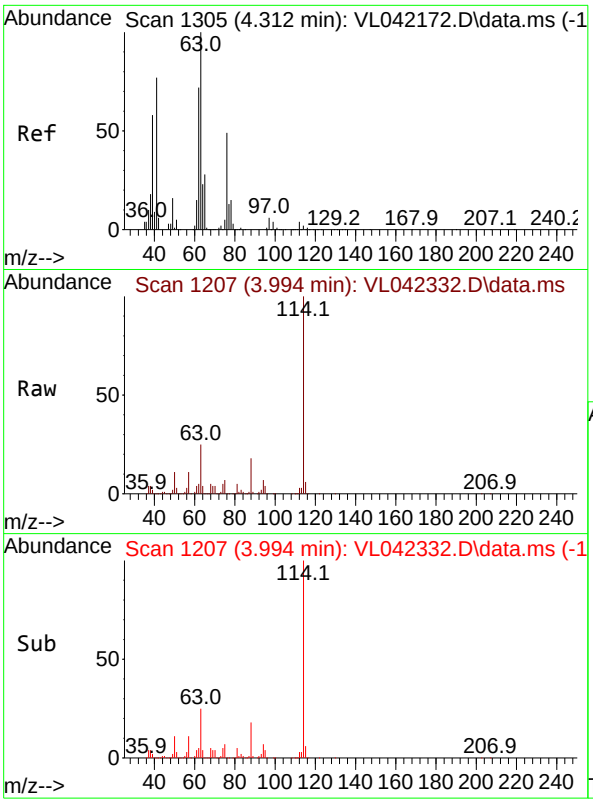




#34
2-Butanone
Concen: 4.837 ppbv
RT: 2.580 min Scan# 770
Delta R.T. 0.026 min
Lab File: VL042332.D
Acq: 15 Apr 2025 15:01

Tgt Ion: 43 Resp: 135118

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 21.0 | 18.2 | 27.2 |



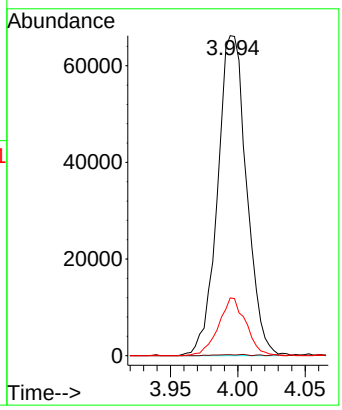


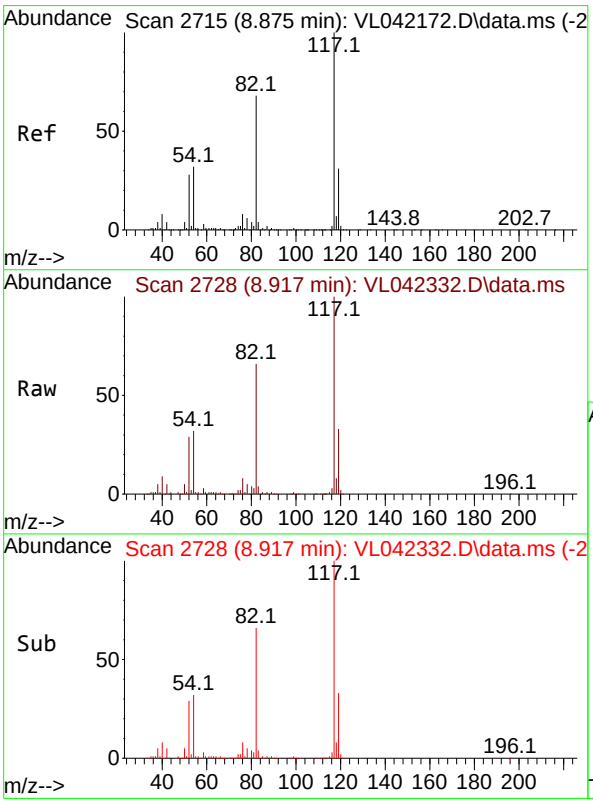

#39
1,2-Dichloropropane
Concen: 7.126 ppbv
RT: 3.994 min Scan# 1
Delta R.T. -0.317 min
Lab File: VL042332.D
Acq: 15 Apr 2025 15:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025DL2

Tgt Ion: 63 Resp: 99113

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 0.6 | 61.7 | 92.5# |
| 62 | 18.1 | 57.6 | 86.4# |

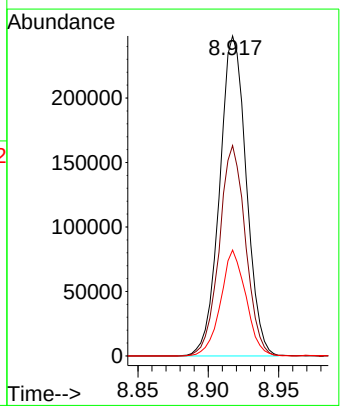


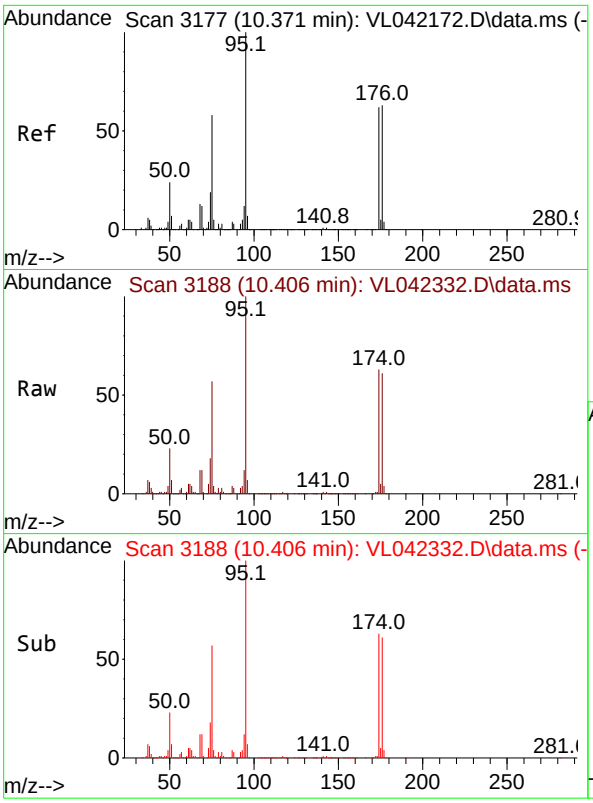




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. 0.042 min
Lab File: VL042332.D
Acq: 15 Apr 2025 15:01

Tgt Ion:117 Resp: 327587

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 64.9 | 55.8 | 83.6 |
| 119 | 31.5 | 25.5 | 38.3 |



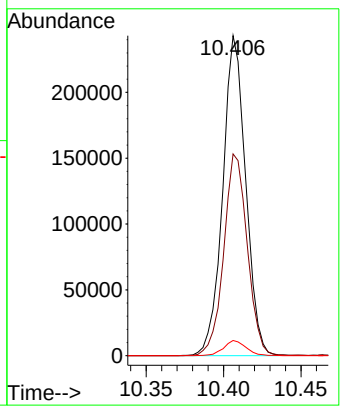



#68
1-Bromo-4-Fluorobenzene
Concen: 9.330 ppbv
RT: 10.406 min Scan# 3
Delta R.T. 0.035 min
Lab File: VL042332.D
Acq: 15 Apr 2025 15:01

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B10-4-3242025DL2

Tgt Ion: 95 Resp: 251001

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 64.9 | 50.6 | 76.0 |
| 175 | 4.6 | 3.8 | 5.6 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042349.D
Acq On : 17 Apr 2025 09:44
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Quant Time: Apr 18 01:25:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.787 | 49 | 125455 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.959 | 114 | 366544 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.882 | 117 | 338126 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95 | 281013 | 10.114 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 101.100% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.499 | 85 | 207962 | 9.382 | ppbv | 100 |
| 3) Chlorodifluoromethane | 1.476 | 51 | 197334 | 9.350 | ppbv | 100 |
| 4) Chloromethane | 1.531 | 50 | 81843 | 9.330 | ppbv | 100 |
| 5) Vinyl Chloride | 1.580 | 62 | 80068 | 8.385 | ppbv | 100 |
| 6) Bromomethane | 1.667 | 94 | 38128 | 9.219 | ppbv | 100 |
| 7) Chloroethane | 1.703 | 64 | 31705 | 9.182 | ppbv | 100 |
| 8) Dichlorotetrafluoroethane | 1.554 | 85 | 179696 | 9.442 | ppbv | 100 |
| 9) Propene | 1.483 | 41 | 86530 | 9.002 | ppbv | 100 |
| 10) Heptane | 4.978 | 43 | 236341 | 9.138 | ppbv | 100 |
| 11) Trichlorofluoromethane | 1.877 | 101 | 196596 | 9.327 | ppbv | 100 |
| 12) 1,1,2-Trichlorotrifluo... | 2.136 | 101 | 160682 | 9.323 | ppbv | 100 |
| 13) Ethanol | 1.719 | 45 | 4439 | 5.651 | ppbv | 100 |
| 14) Bromoethene | 1.780 | 108 | 61493 | 9.466 | ppbv | 100 |
| 15) Acetone | 1.835 | 43 | 158490 | 7.717 | ppbv | 100 |
| 16) 1,3-Butadiene | 1.609 | 39 | 81688 | 8.470 | ppbv | 100 |
| 17) tert-Butyl alcohol | 2.039 | 59 | 226280 | 8.891 | ppbv | 100 |
| 18) 1,1-Dichloroethene | 2.033 | 96 | 73186 | 8.833 | ppbv | 100 |
| 19) Isopropyl Alcohol | 1.884 | 45 | 103029 | 9.031 | ppbv | 100 |
| 20) Methylene Chloride | 2.062 | 84 | 62414 | 7.760 | ppbv | 100 |
| 21) Allyl Chloride | 2.094 | 41 | 122115 | 8.611 | ppbv | 100 |
| 22) trans-1,2-Dichloroethene | 2.340 | 96 | 83278 | 9.084 | ppbv | 100 |
| 23) Vinyl Acetate | 2.460 | 43 | 69649 | 8.378 | ppbv | 100 |
| 24) 1,1-Dichloroethane | 2.408 | 63 | 161102 | 9.251 | ppbv | 100 |
| 25) Ethyl Acetate | 2.836 | 43 | 461315 | 9.110 | ppbv | 100 |
| 26) Hexane | 2.826 | 57 | 178691 | 8.720 | ppbv | 100 |
| 27) Carbon Disulfide | 2.149 | 76 | 209297 | 9.539 | ppbv | 100 |
| 28) Methyl tert-Butyl Ether | 2.441 | 73 | 117924 | 8.783 | ppbv | 100 |
| 29) Chloroform | 2.848 | 83 | 269088 | 9.290 | ppbv | 100 |
| 30) Cyclohexane | 3.855 | 84 | 157035 | 9.517 | ppbv | 100 |
| 31) cis-1,2-Dichloroethene | 2.719 | 61 | 183082 | 9.397 | ppbv | 100 |
| 32) 1,1,1-Trichloroethane | 3.366 | 97 | 285336 | 9.187 | ppbv | 100 |
| 34) 2-Butanone | 2.557 | 43 | 251704 | 8.683 | ppbv | 100 |
| 35) Carbon Tetrachloride | 3.761 | 117 | 282402 | 8.513 | ppbv | 100 |
| 36) Benzene | 3.654 | 78 | 367355 | 9.292 | ppbv | 100 |
| 37) 1,2-Dichloroethane | 3.217 | 62 | 216999 | 9.145 | ppbv | 100 |
| 38) Trichloroethene | 4.548 | 130 | 144767 | 8.352 | ppbv | 100 |
| 39) 1,2-Dichloropropane | 4.311 | 63 | 135605 | 9.197 | ppbv | 100 |
| 40) 1,4-Dioxane | 4.580 | 88 | 66662 | 8.348 | ppbv # | 100 |
| 41) Tetrahydrofuran | 3.052 | 42 | 149905 | 8.950 | ppbv | 100 |
| 42) Bromodichloromethane | 4.489 | 83 | 312268 | 9.456 | ppbv | 100 |
| 43) Methyl Methacrylate | 4.881 | 69 | 157501 | 8.876 | ppbv | 100 |
| 44) 2,2,4-Trimethylpentane | 4.642 | 57 | 626085 | 9.157 | ppbv | 100 |
| 45) t-1,3-Dichloropropene | 6.415 | 75 | 168223 | 9.233 | ppbv | 100 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042349.D
Acq On : 17 Apr 2025 09:44
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Quant Time: Apr 18 01:25:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.600 | 75 | 208811 | 9.377 | ppbv | | 100 |
| 47) 1,1,2-Trichloroethane | 6.580 | 97 | 137898 | 9.181 | ppbv | | 100 |
| 48) Dibromochloromethane | 7.386 | 129 | 248954 | 9.388 | ppbv | | 100 |
| 49) Bromoform | 9.480 | 173 | 225706 | 9.734 | ppbv | | 100 |
| 50) 4-Methyl-2-Pentanone | 5.752 | 43 | 396548 | 8.215 | ppbv | | 100 |
| 51) 2-Hexanone | 7.435 | 43 | 327165 | 7.511 | ppbv | | 100 |
| 52) Tetrachloroethene | 8.225 | 164 | 130720 | 8.553 | ppbv | | 100 |
| 53) Toluene | 6.933 | 91 | 437258 | 9.216 | ppbv | | 100 |
| 54) 1,2-Dibromoethane | 7.652 | 107 | 197665 | 9.235 | ppbv | | 100 |
| 56) 1,1,1,2-Tetrachloroethane | 8.927 | 131 | 186041 | 9.091 | ppbv | | 100 |
| 57) Chlorobenzene | 8.920 | 112 | 323084 | 9.187 | ppbv | | 100 |
| 58) Ethyl Benzene | 9.354 | 91 | 619581 | 9.248 | ppbv | | 100 |
| 59) m/p-Xylene | 9.552 | 91 | 449222 | 8.299 | ppbv | # | 19 |
| 60) o-Xylene | 9.963 | 91 | 487616 | 8.972 | ppbv | | 100 |
| 61) Styrene | 9.869 | 104 | 245487 | 9.464 | ppbv | | 100 |
| 62) Isopropylbenzene | 10.539 | 105 | 733788 | 9.197 | ppbv | | 100 |
| 63) 1,1,2,2-Tetrachloroethane | 9.963 | 83 | 295041 | 8.355 | ppbv | | 100 |
| 64) n-propylbenzene | 10.989 | 120 | 183390 | 9.144 | ppbv | | 100 |
| 65) tert-Butylbenzene | 11.532 | 119 | 644953 | 8.795 | ppbv | | 100 |
| 66) Benzyl Chloride | 11.617 | 91 | 83269 | 10.333 | ppbv | | 100 |
| 67) sec-Butylbenzene | 11.769 | 105 | 900074 | 8.824 | ppbv | | 100 |
| 69) p-Isopropyltoluene | 11.927 | 119 | 778987 | 8.790 | ppbv | | 100 |
| 70) n-Butylbenzene | 12.283 | 91 | 801364 | 8.682 | ppbv | | 100 |
| 71) 2-Chlorotoluene | 10.901 | 91 | 573039 | 9.157 | ppbv | | 100 |
| 72) 4-Ethyltoluene | 11.125 | 105 | 596757 | 8.982 | ppbv | | 100 |
| 73) 1,3,5-Trimethylbenzene | 11.205 | 105 | 512855 | 8.743 | ppbv | | 100 |
| 74) 1,2,4-Trimethylbenzene | 11.539 | 105 | 565064 | 8.248 | ppbv | | 100 |
| 75) 1,3-Dichlorobenzene | 11.607 | 146 | 320380 | 8.997 | ppbv | | 100 |
| 76) 1,4-Dichlorobenzene | 11.672 | 146 | 319089 | 8.915 | ppbv | | 100 |
| 77) 1,2-Dichlorobenzene | 11.947 | 146 | 305822 | 8.832 | ppbv | | 100 |
| 78) Hexachloro-1,3-Butadiene | 13.882 | 225 | 291833 | 8.346 | ppbv | | 100 |
| 79) Naphthalene | 13.513 | 128 | 677578 | 8.271 | ppbv | | 100 |
| 80) Naphthalene,2-methyl- | 14.458 | 142 | 376995 | 8.074 | ppbv | | 100 |
| 81) 1,2,4-Trichlorobenzene | 13.442 | 180 | 306119 | 8.702 | ppbv | | 100 |

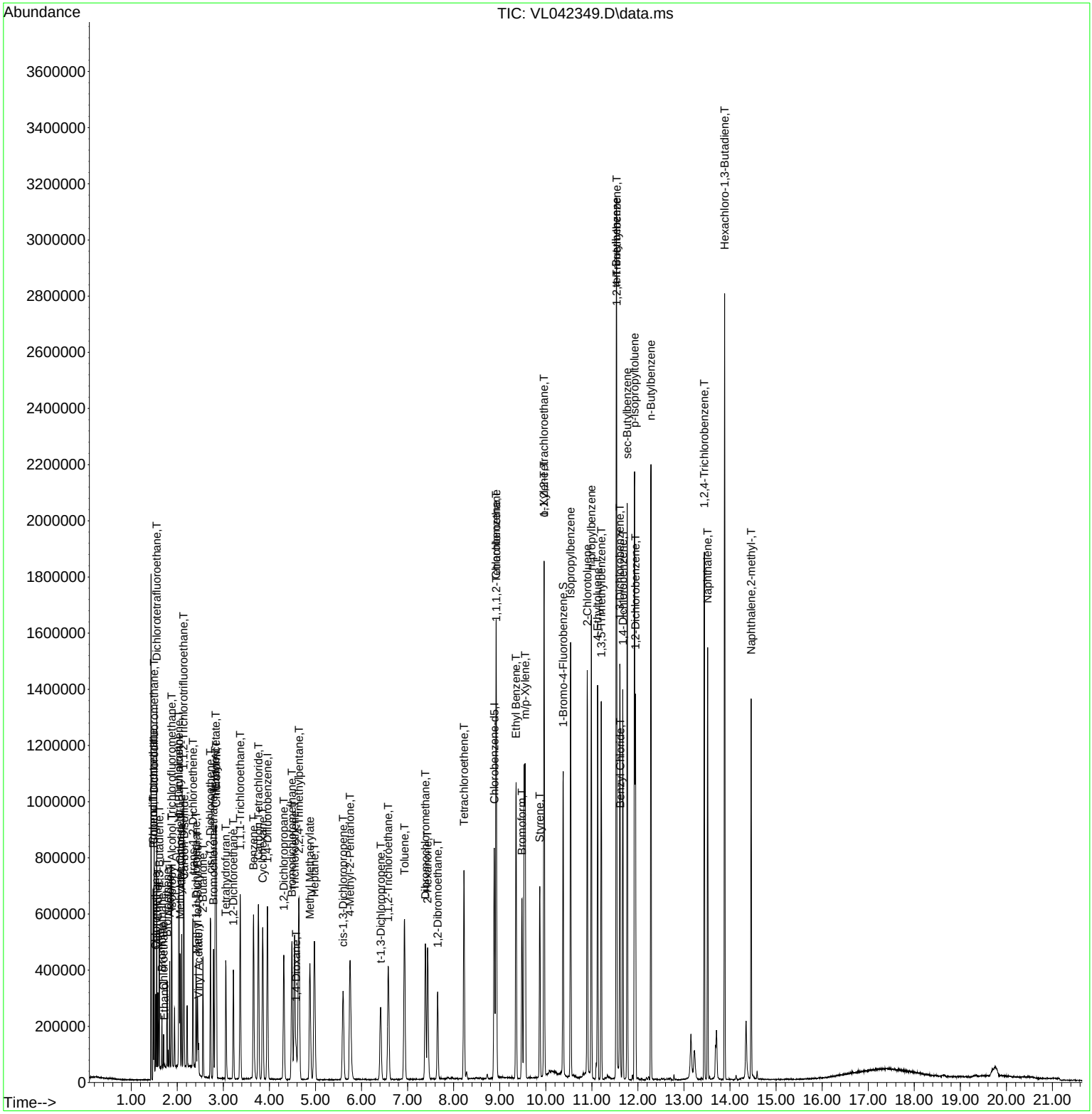
(#) = qualifier out of range (m) = manual integration (+) = signals summed

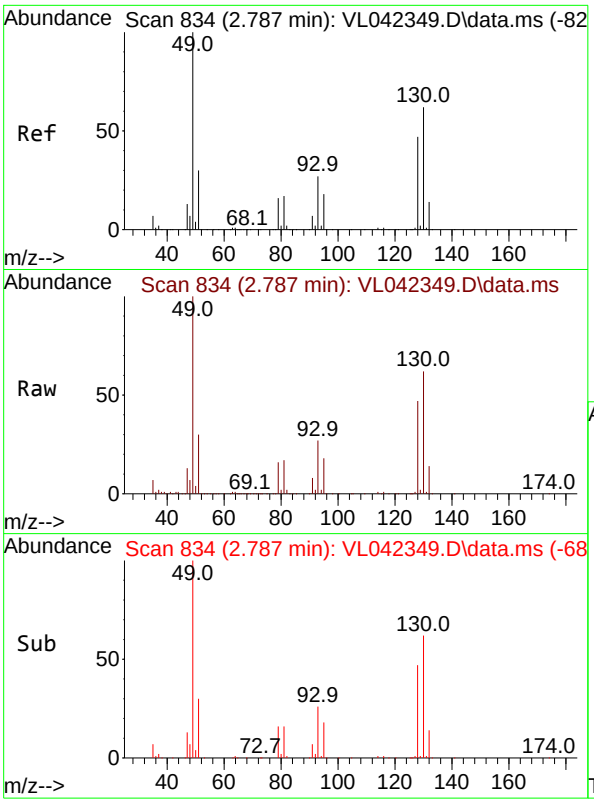
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042349.D
Acq On : 17 Apr 2025 09:44
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Quant Time: Apr 18 01:25:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration



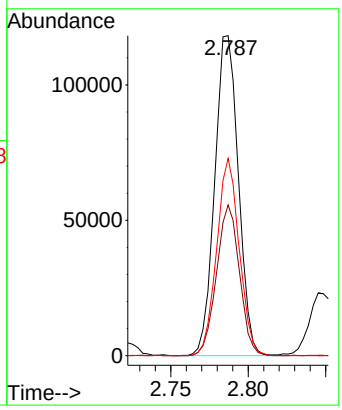


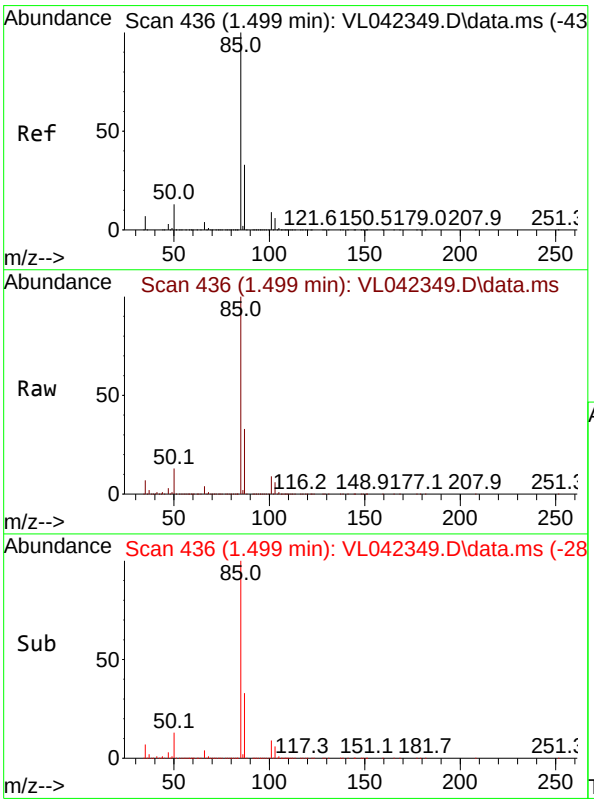

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion: 49 Resp: 125455

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 45.6 | 22.8 | 68.4 |
| 130 | 58.7 | 29.3 | 88.0 |

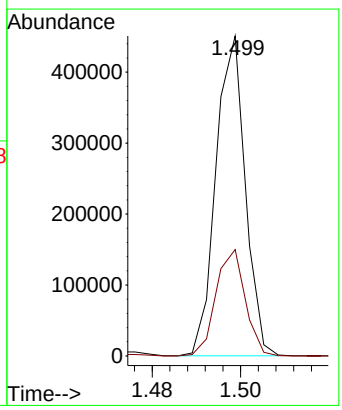


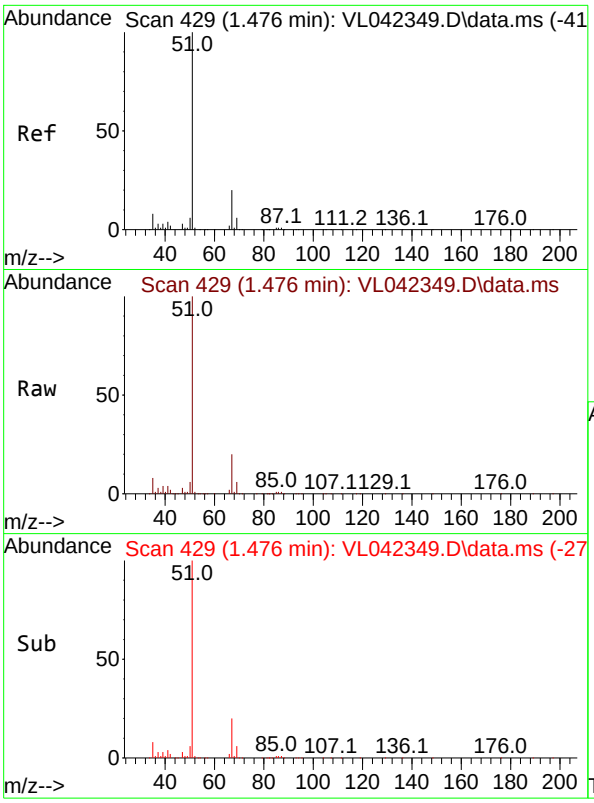




#2
Dichlorodifluoromethane
Concen: 9.382 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 85 Resp: 207962

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.2 | 26.6 | 39.8 |



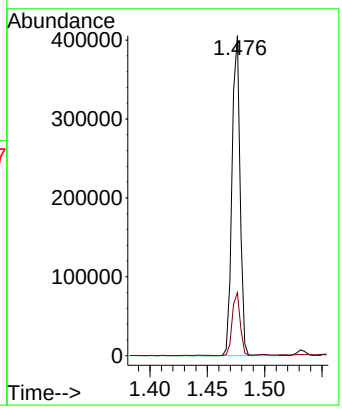


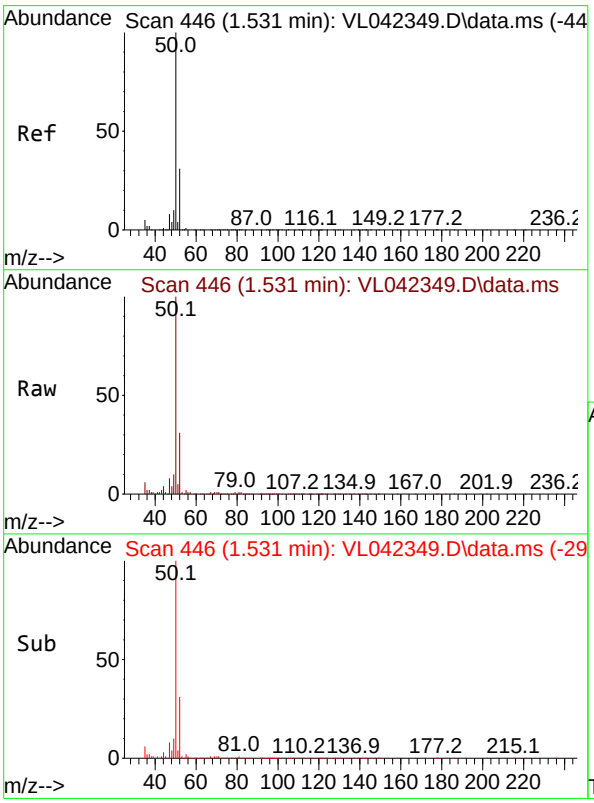

#3
Chlorodifluoromethane
Concen: 9.350 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion: 51 Resp: 197334

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 20.3 | 16.2 | 24.4 |

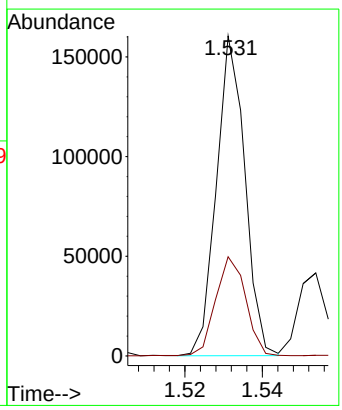


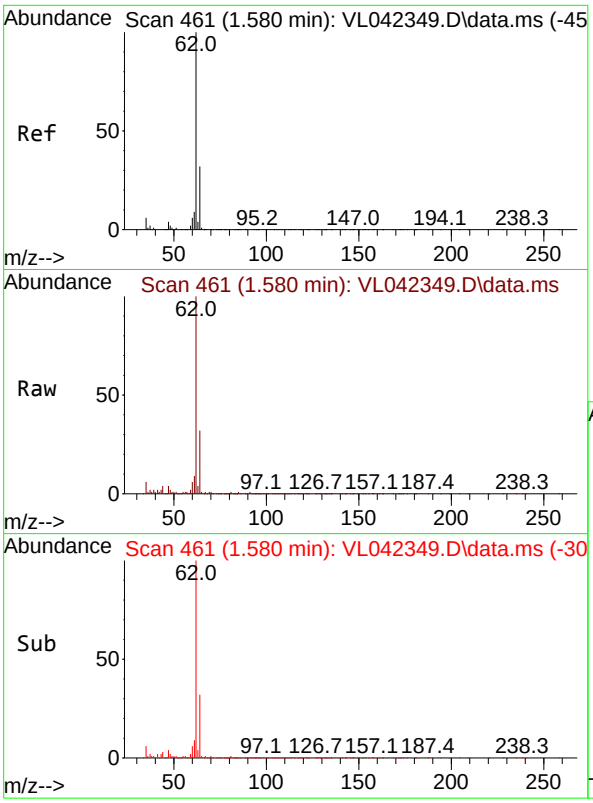




#4
Chloromethane
Concen: 9.330 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 50 Resp: 81843

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 30.9 | 24.7 | 37.1 |



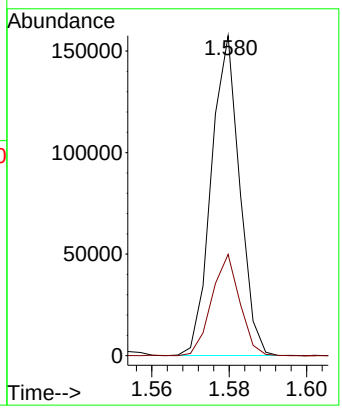


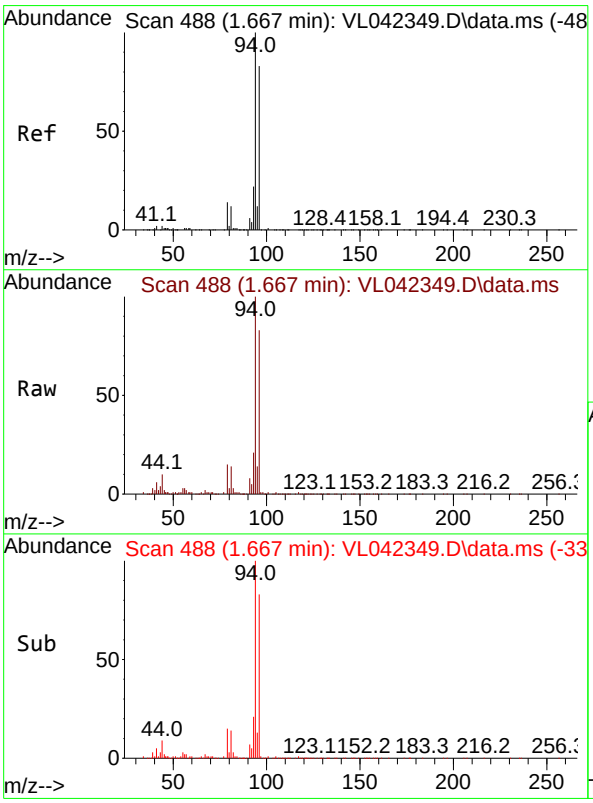

#5
Vinyl Chloride
Concen: 8.385 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion: 62 Resp: 80068

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.7 | 25.4 | 38.0 |

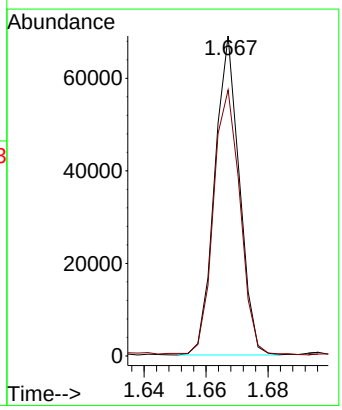


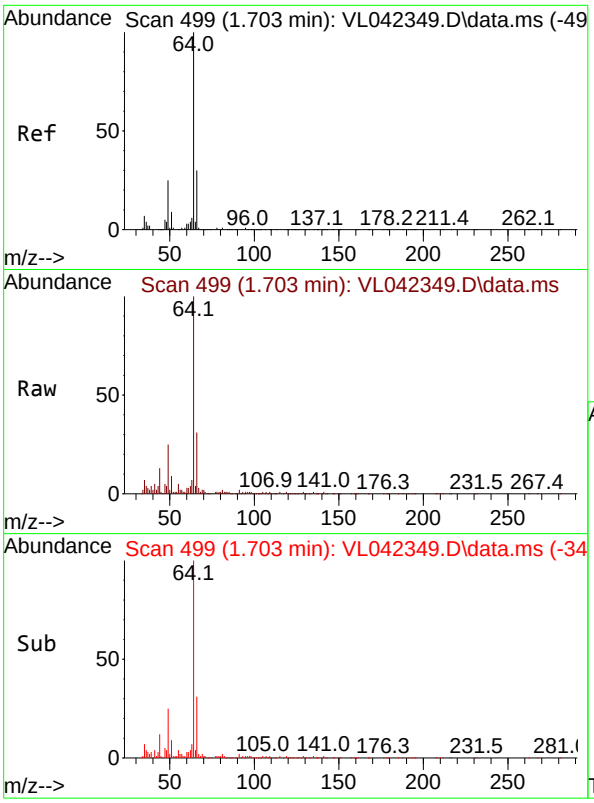




#6
Bromomethane
Concen: 9.219 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 94 Resp: 38128

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 82.7 | 66.2 | 99.2 |



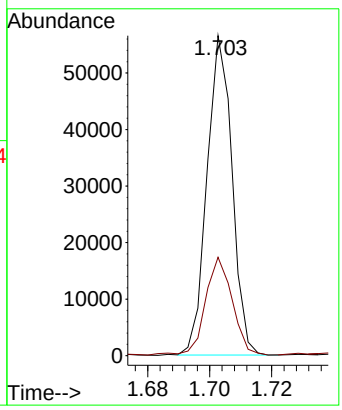


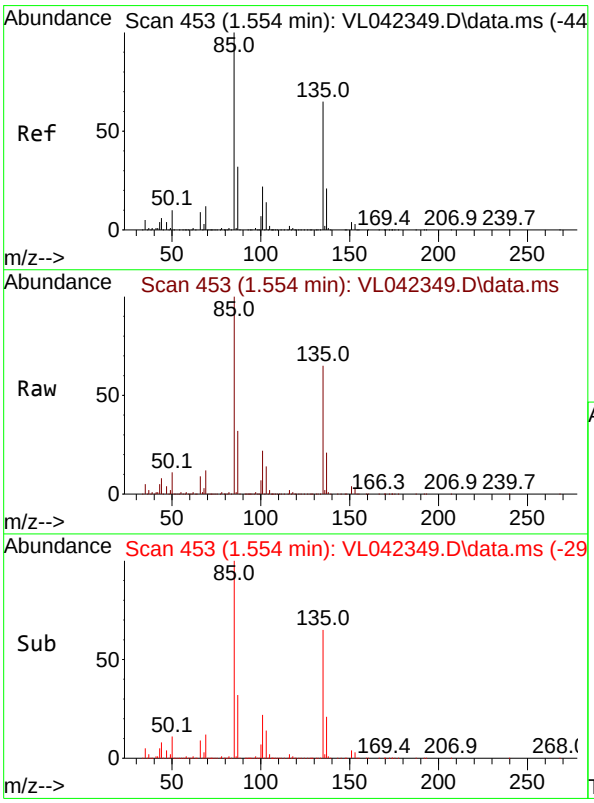

#7
Chloroethane
Concen: 9.182 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion: 64 Resp: 31705

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 30.8 | 24.6 | 37.0 |

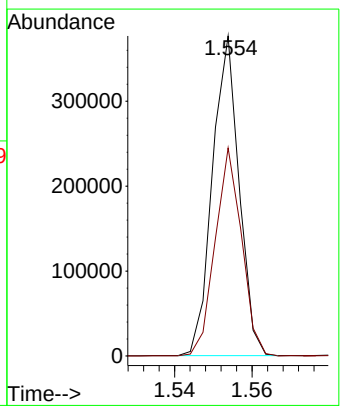


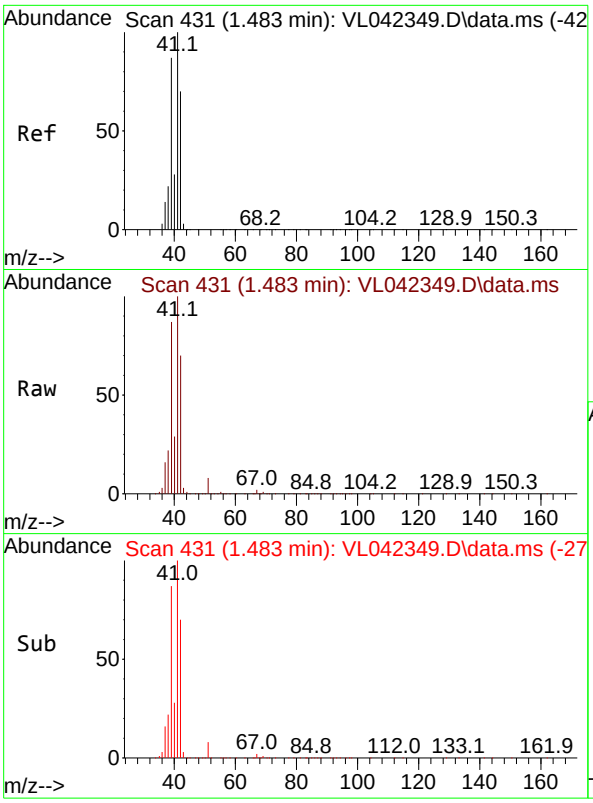




#8
Dichlorotetrafluoroethane
Concen: 9.442 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 85 Resp: 179696

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 65.2 | 52.2 | 78.2 |



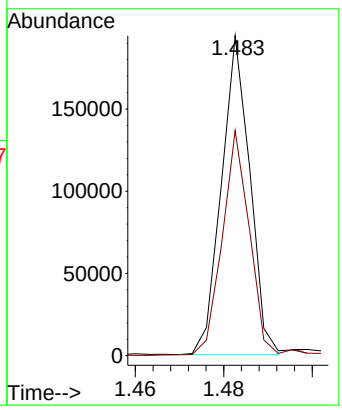


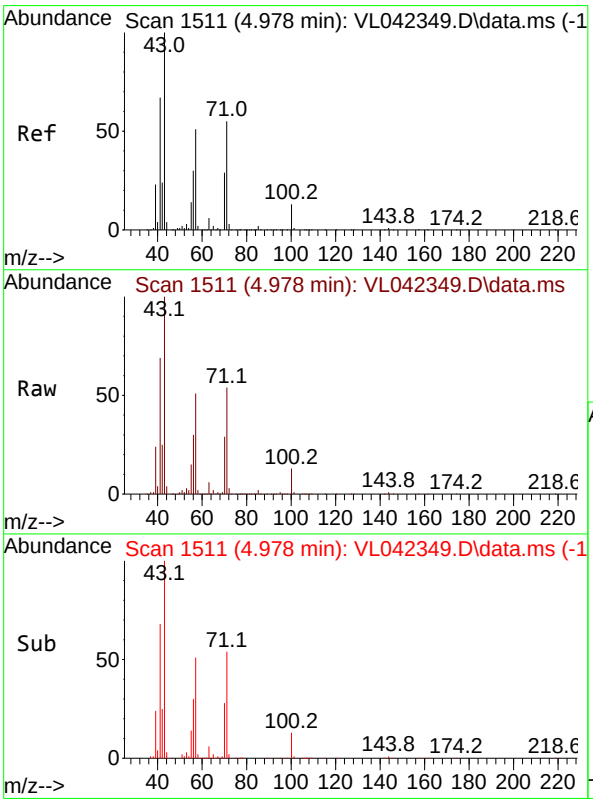

#9
Propene
Concen: 9.002 ppbv
RT: 1.483 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion: 41 Resp: 86530

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 70.3 | 56.2 | 84.4 |

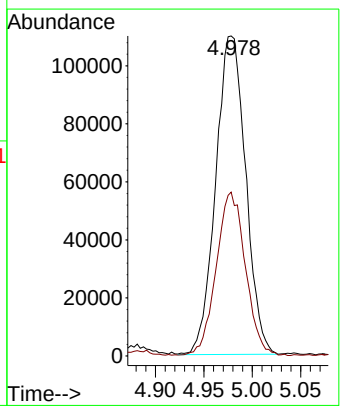


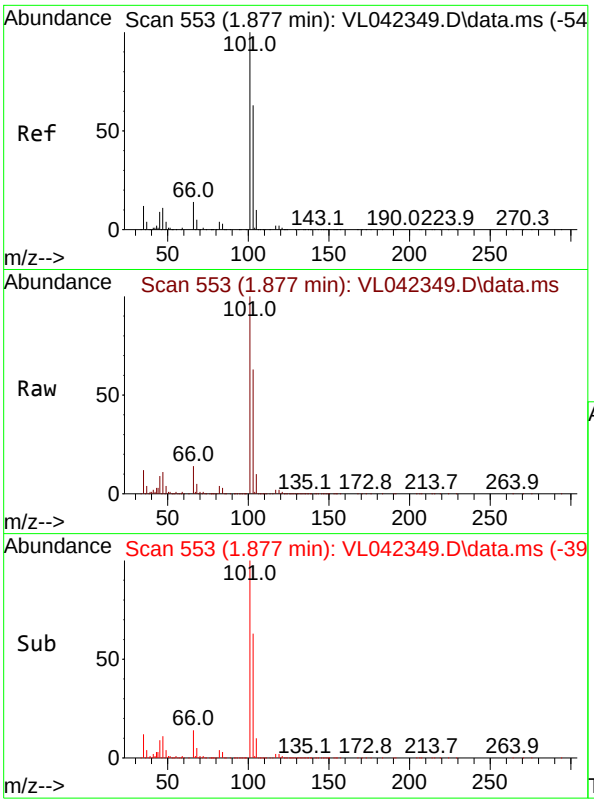




#10
Heptane
Concen: 9.138 ppbv
RT: 4.978 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 43 Resp: 236341

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 49.9 | 39.9 | 59.9 |



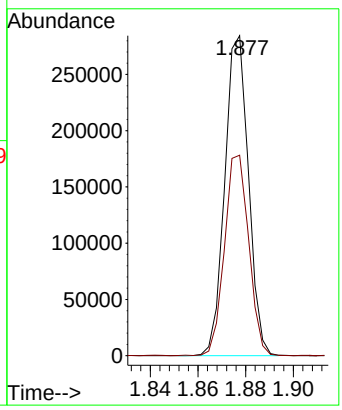


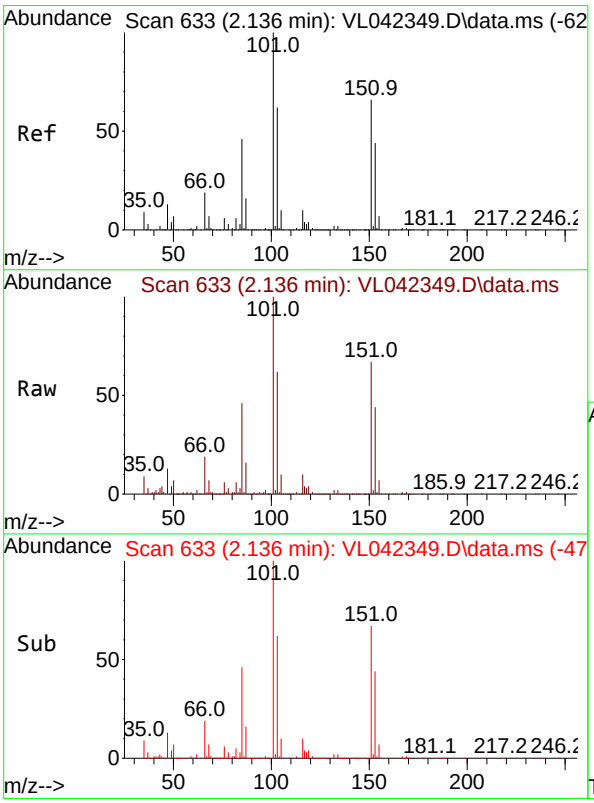

#11
Trichlorofluoromethane
Concen: 9.327 ppbv
RT: 1.877 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion:101 Resp: 196596

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 62.6 | 50.1 | 75.1 |

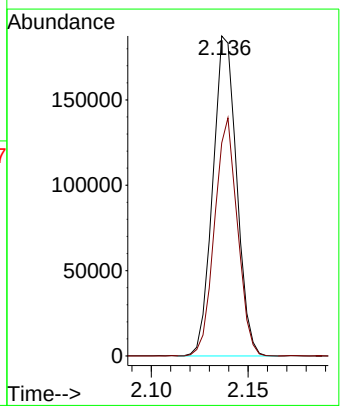


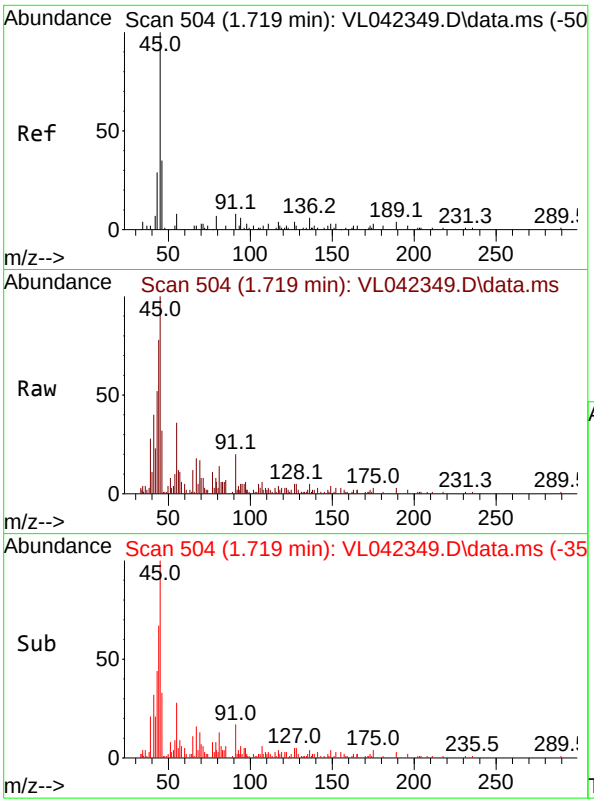




#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.323 ppbv
RT: 2.136 min Scan# 633
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:101 Resp: 160682

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 71.3 | 57.0 | 85.6 |



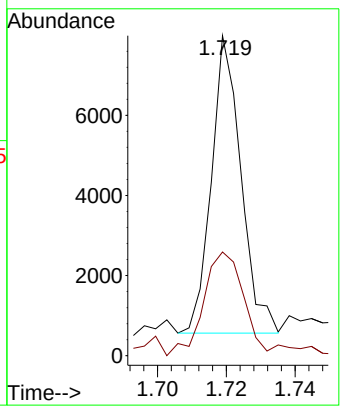


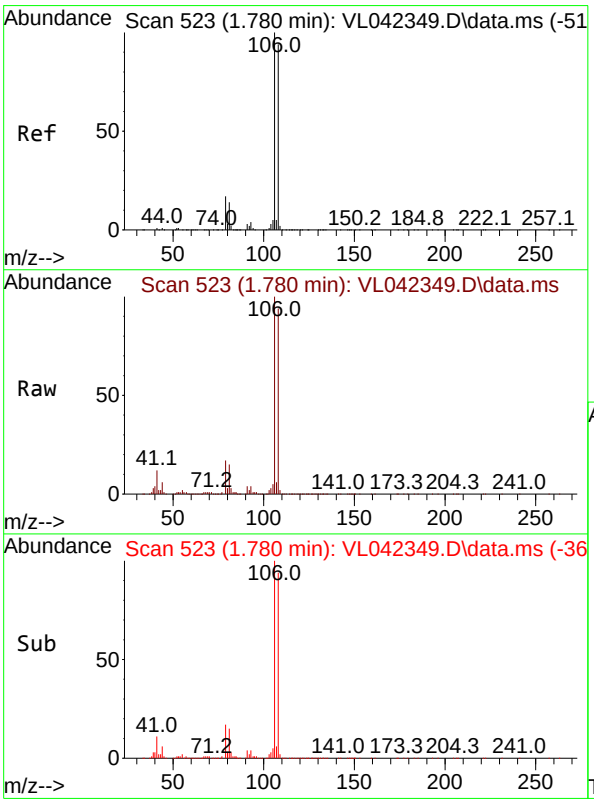

#13
Ethanol
Concen: 5.651 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion: 45 Resp: 4439

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 54.8 | 21.9 | 87.7 |

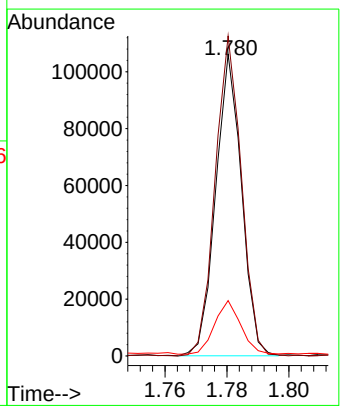


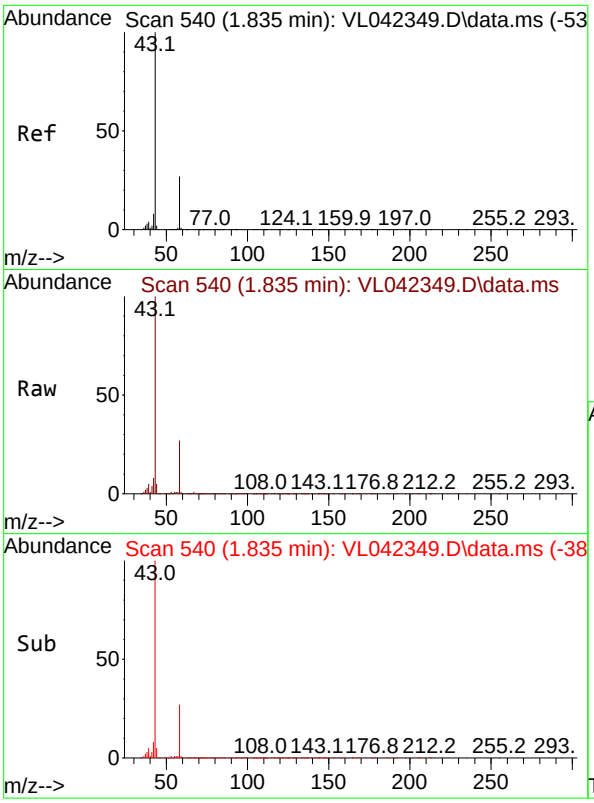




#14
Bromoethene
Concen: 9.466 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:108 Resp: 61493

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 106 | 107.4 | 85.9 | 128.9 |
| 79 | 17.4 | 13.9 | 20.9 |



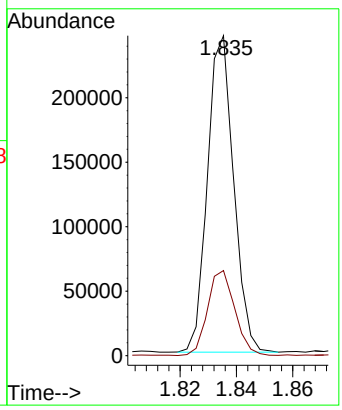


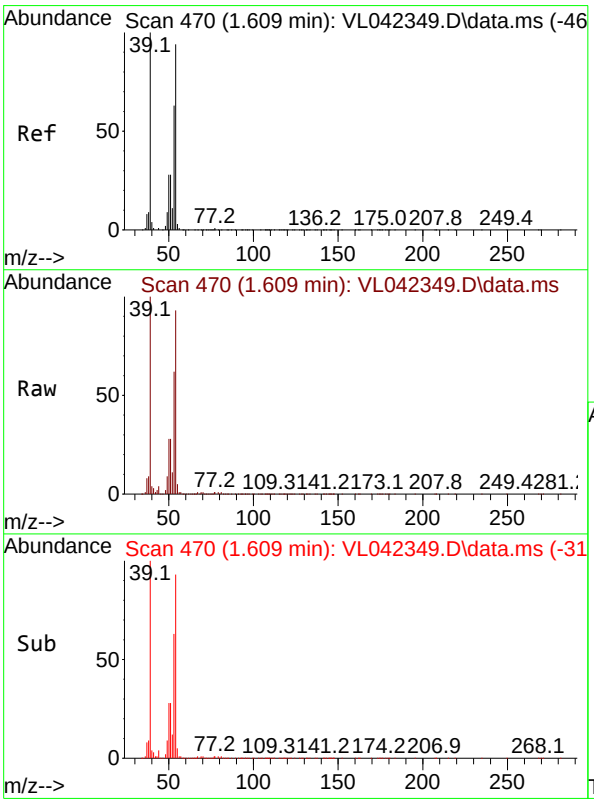

#15
Acetone
Concen: 7.717 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion: 43 Resp: 158490

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 28.0 | 22.4 | 33.6 |

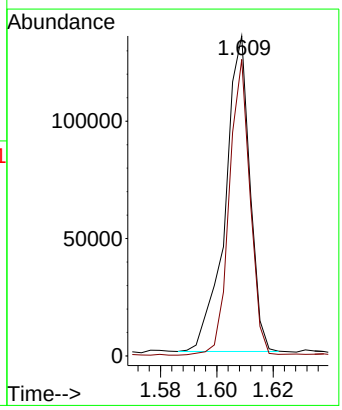


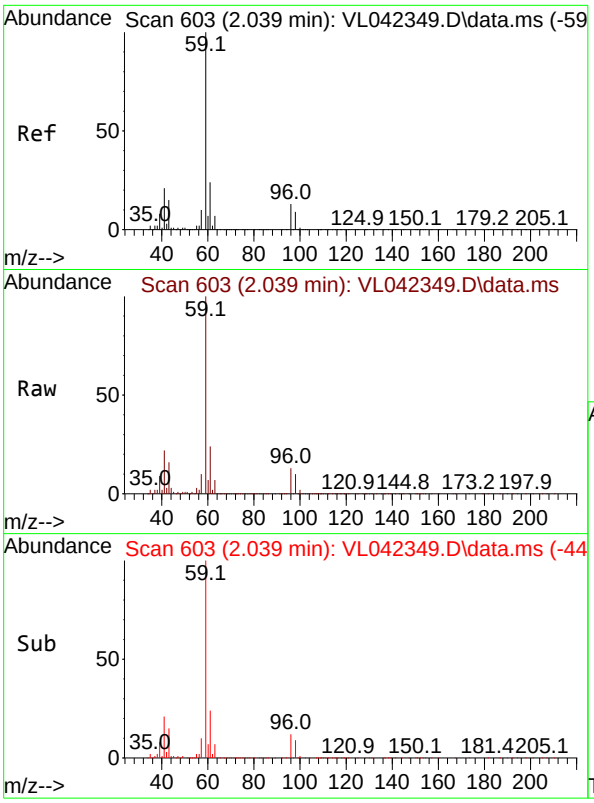




#16
1,3-Butadiene
Concen: 8.470 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 39 Resp: 81688

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 81.1 | 64.9 | 97.3 |



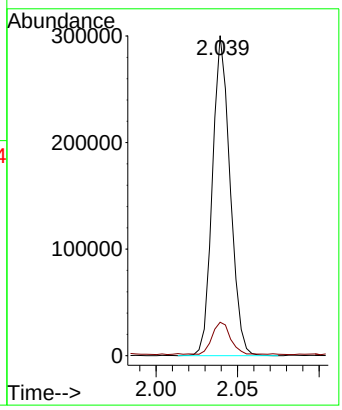


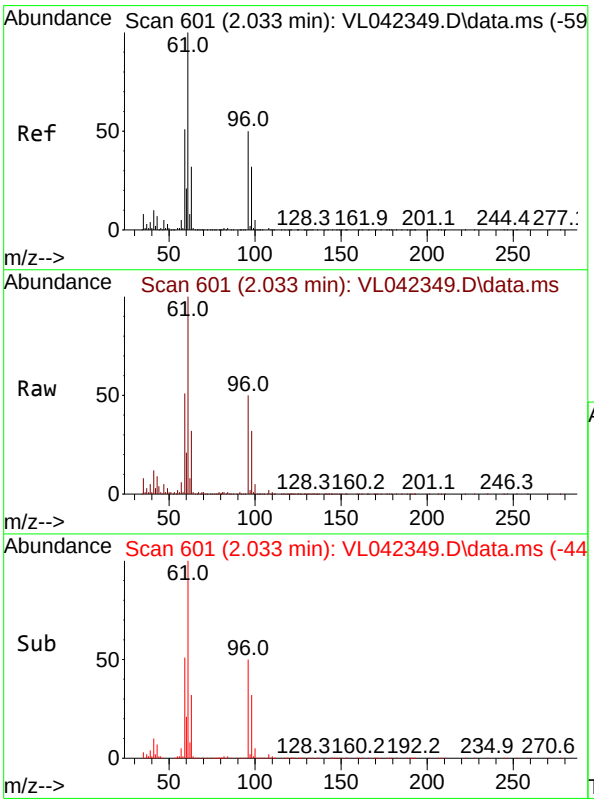

#17
tert-Butyl alcohol
Concen: 8.891 ppbv
RT: 2.039 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion: 59 Resp: 226280

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.9 | 8.7 | 13.1 |

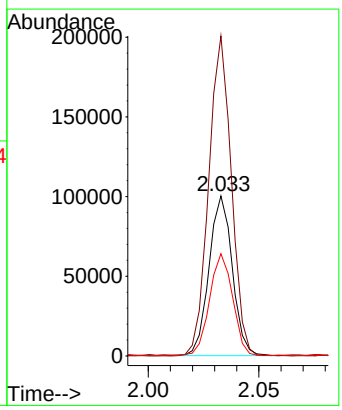


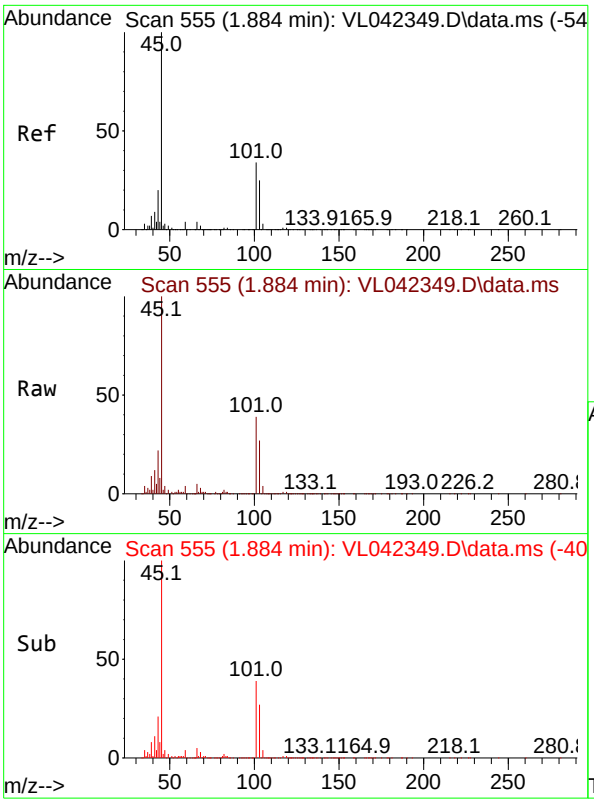




#18
1,1-Dichloroethene
Concen: 8.833 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 96 Resp: 73186

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 200.2 | 160.2 | 240.2 |
| 98 | 63.7 | 51.0 | 76.4 |



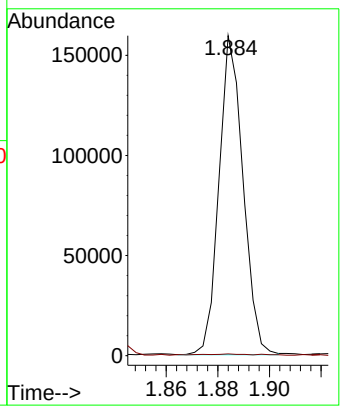


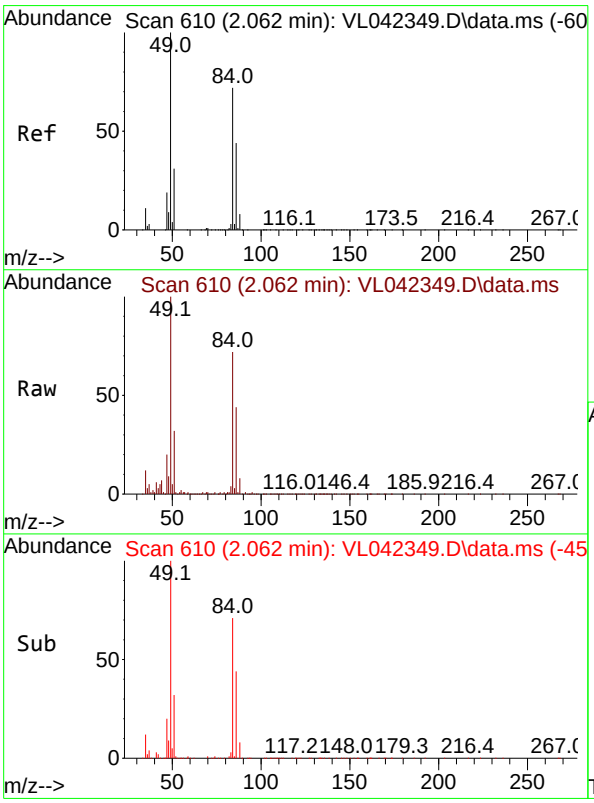

#19
Isopropyl Alcohol
Concen: 9.031 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion: 45 Resp: 103029

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 43.1 | 34.5 | 51.7 |

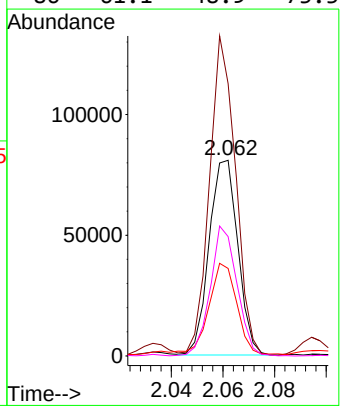


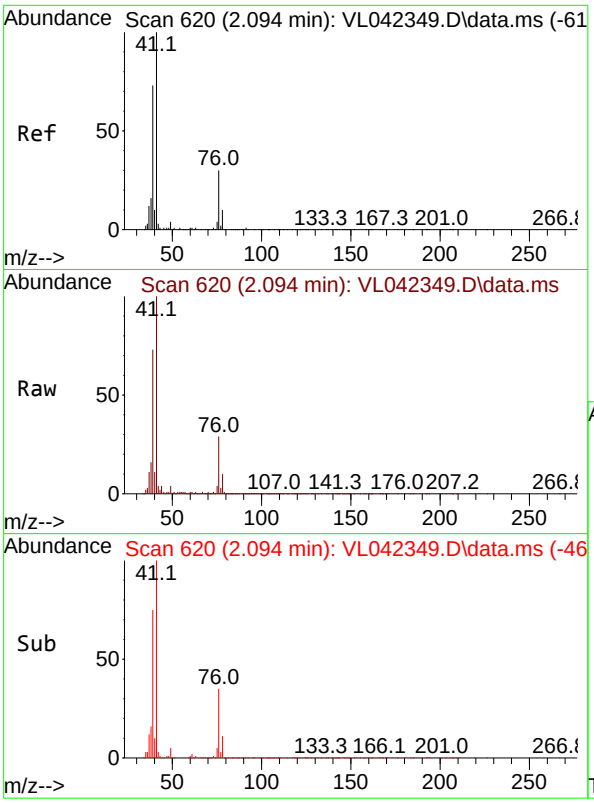




#20
Methylene Chloride
Concen: 7.760 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 84 Resp: 62414

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 139.5 | 111.6 | 167.4 |
| 51 | 43.9 | 35.1 | 52.7 |
| 86 | 61.1 | 48.9 | 73.3 |



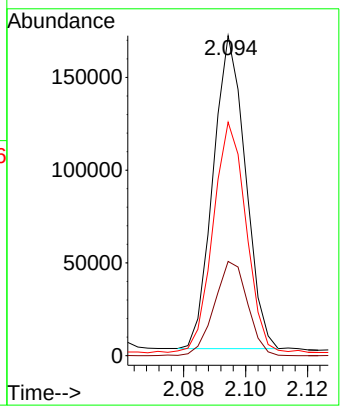


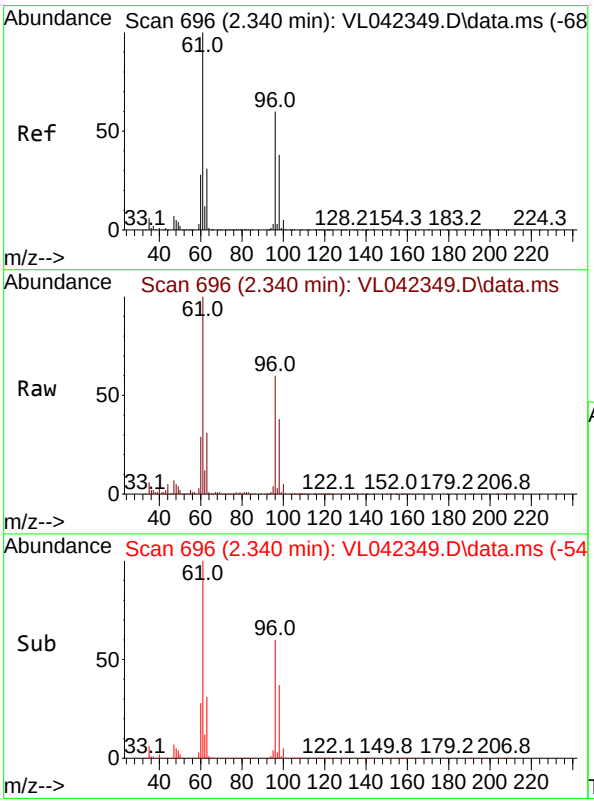

#21
Allyl Chloride
Concen: 8.611 ppbv
RT: 2.094 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion: 41 Resp: 122115

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 31.0 | 24.8 | 37.2 |
| 39 | 75.7 | 60.6 | 90.8 |

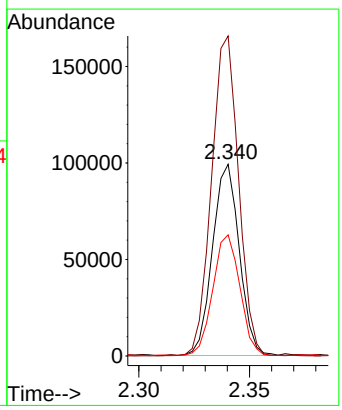


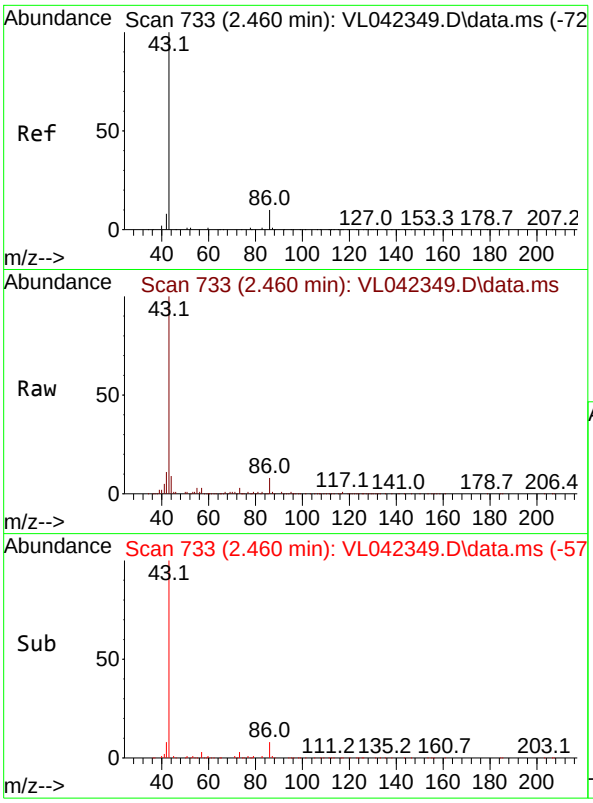




#22
trans-1,2-Dichloroethene
Concen: 9.084 ppbv
RT: 2.340 min Scan# 696
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 96 Resp: 83278

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 167.1 | 133.7 | 200.5 |
| 98 | 62.9 | 50.3 | 75.5 |



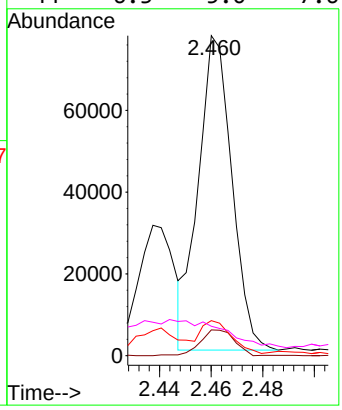


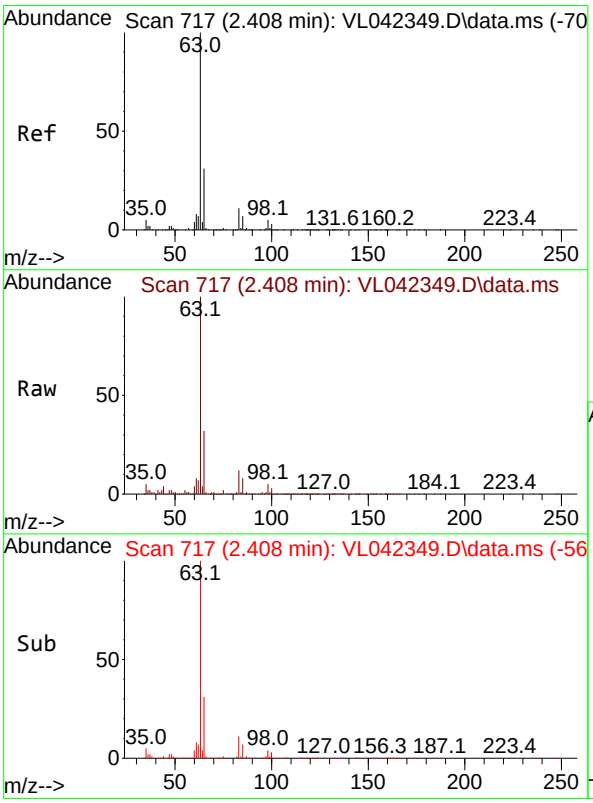

#23
Vinyl Acetate
Concen: 8.378 ppbv
RT: 2.460 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion: 43 Resp: 69649

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 8.1 | 6.5 | 9.7 |
| 42 | 9.8 | 7.8 | 11.8 |
| 44 | 6.3 | 5.0 | 7.6 |

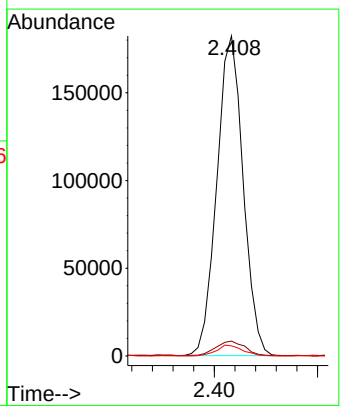


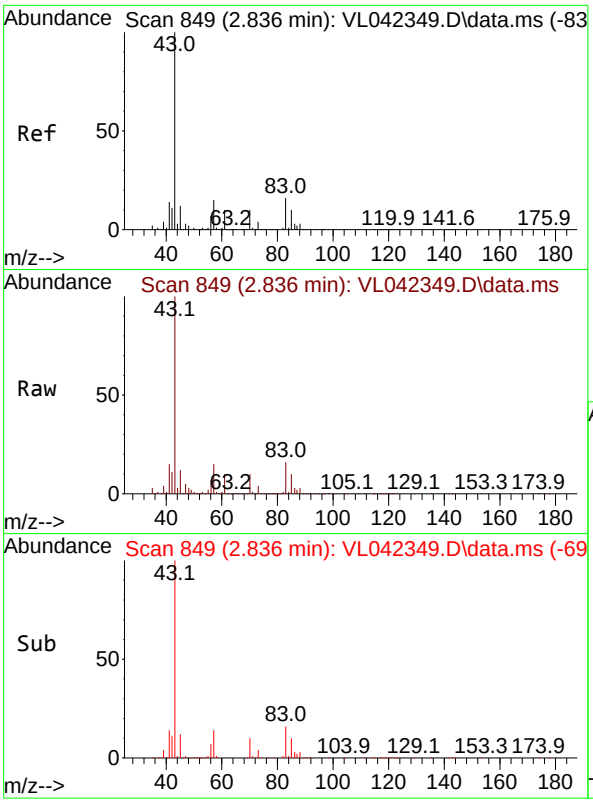




#24
1,1-Dichloroethane
Concen: 9.251 ppbv
RT: 2.408 min Scan# 717
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 63 Resp: 161102

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 4.5 | 2.3 | 6.8 |
| 100 | 3.2 | 1.6 | 4.8 |



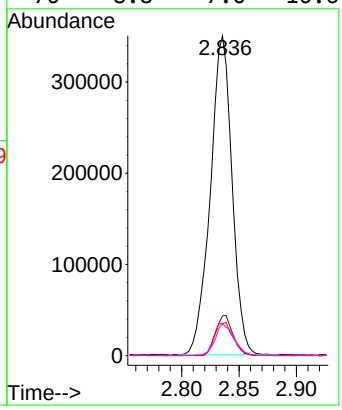


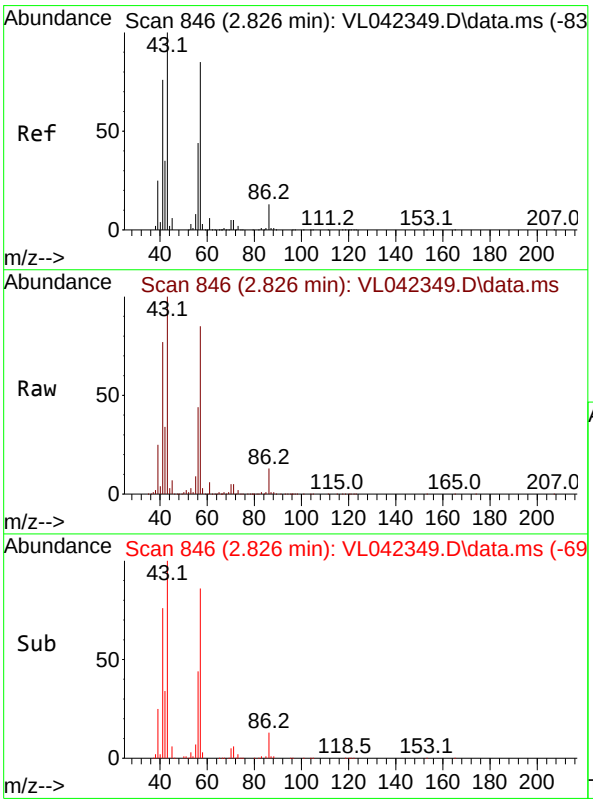

#25
Ethyl Acetate
Concen: 9.110 ppbv
RT: 2.836 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion: 43 Resp: 461315

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 10.4 | 8.3 | 12.5 |
| 61 | 9.1 | 7.3 | 10.9 |
| 70 | 8.8 | 7.0 | 10.6 |

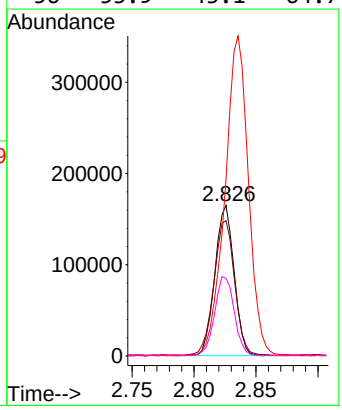


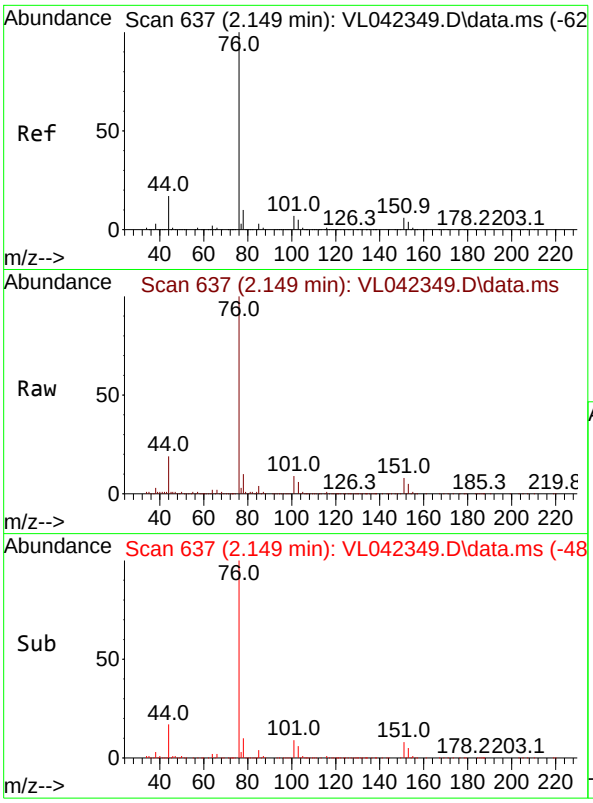




#26
Hexane
Concen: 8.720 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 57 Resp: 178691

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 97.4 | 77.9 | 116.9 |
| 43 | 260.5 | 208.4 | 312.6 |
| 56 | 53.9 | 43.1 | 64.7 |



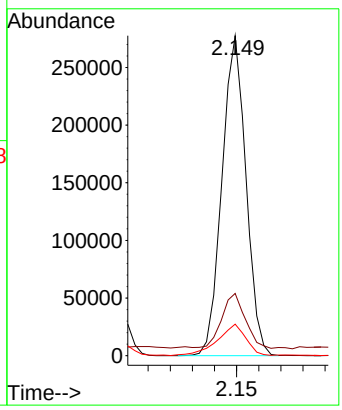


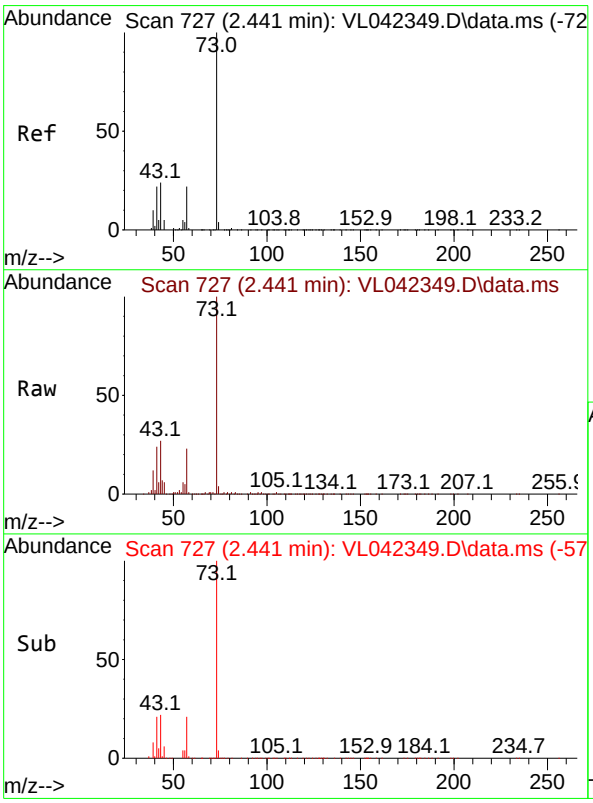

#27
Carbon Disulfide
Concen: 9.539 ppbv
RT: 2.149 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion: 76 Resp: 209297

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 19.4 | 15.5 | 23.3 |
| 78 | 11.6 | 9.3 | 13.9 |

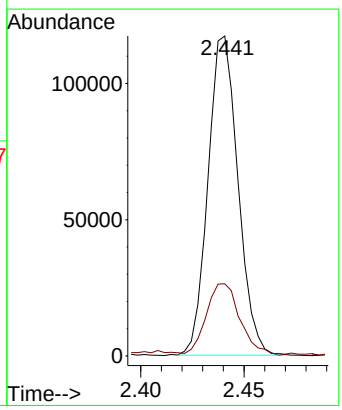


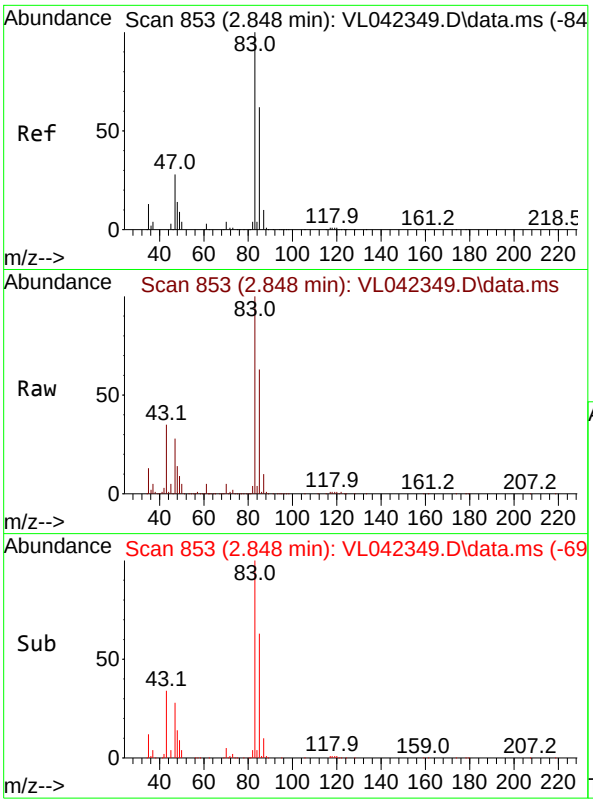




#28
Methyl tert-Butyl Ether
Concen: 8.783 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 73 Resp: 117924

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 26.6 | 21.3 | 31.9 |



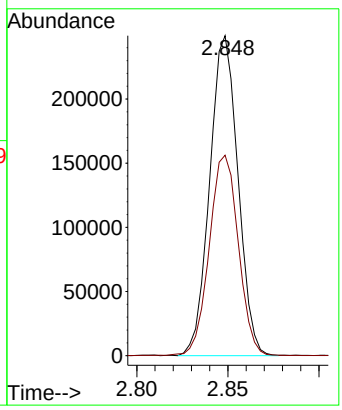


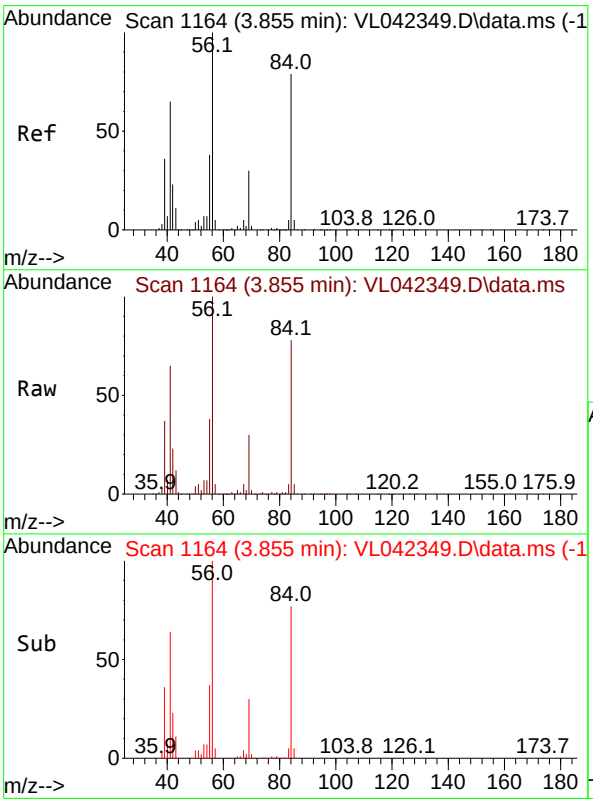

#29
Chloroform
Concen: 9.290 ppbv
RT: 2.848 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion: 83 Resp: 269088

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.5 | 50.0 | 75.0 |

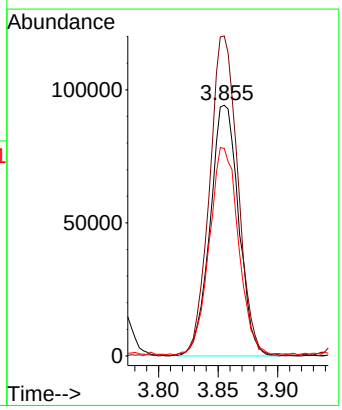


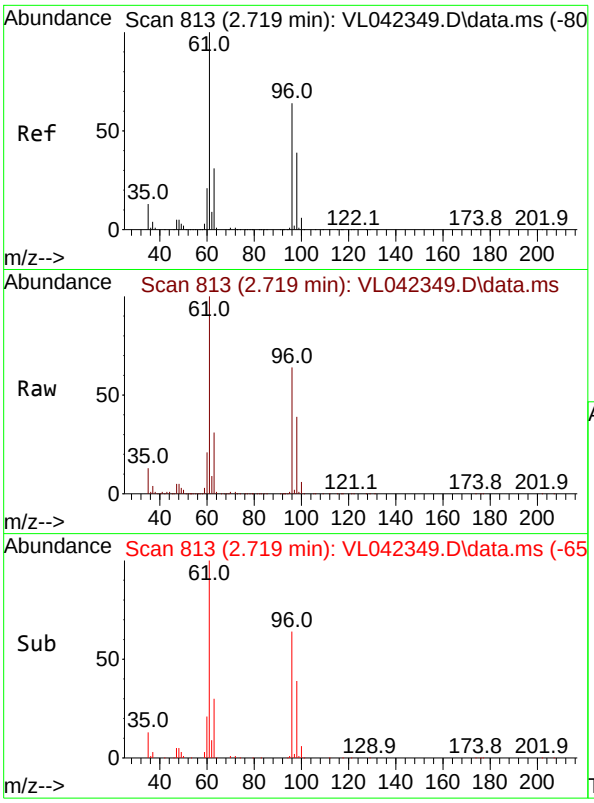




#30
Cyclohexane
Concen: 9.517 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 84 Resp: 157035

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 126.2 | 101.0 | 151.4 |
| 41 | 84.2 | 67.4 | 101.0 |



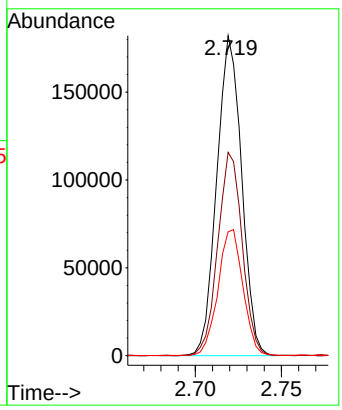


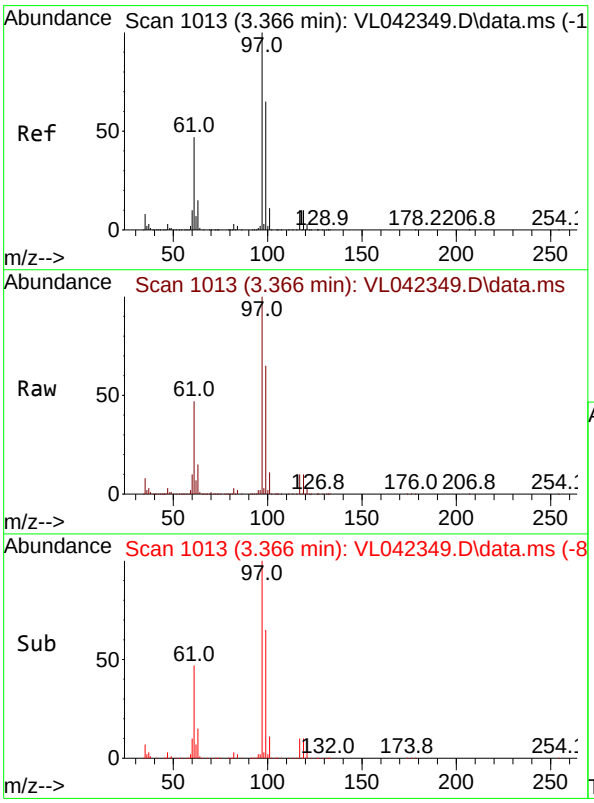

#31
cis-1,2-Dichloroethene
Concen: 9.397 ppbv
RT: 2.719 min Scan# 81
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion: 61 Resp: 183082

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 63.5 | 50.8 | 76.2 |
| 98 | 38.6 | 30.9 | 46.3 |

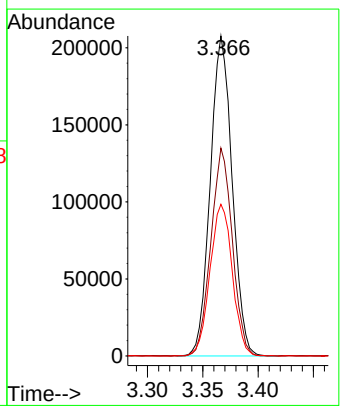


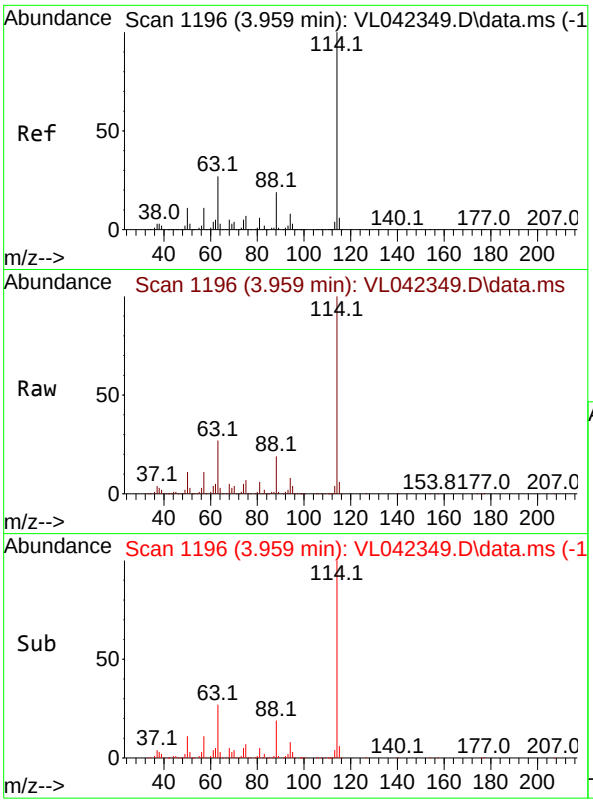




#32
1,1,1-Trichloroethane
Concen: 9.187 ppbv
RT: 3.366 min Scan# 1013
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 97 Resp: 285336

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.7 | 51.0 | 76.4 |
| 61 | 48.5 | 38.8 | 58.2 |



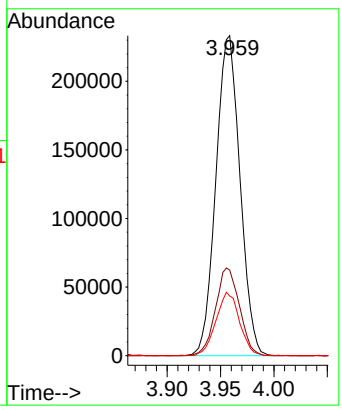


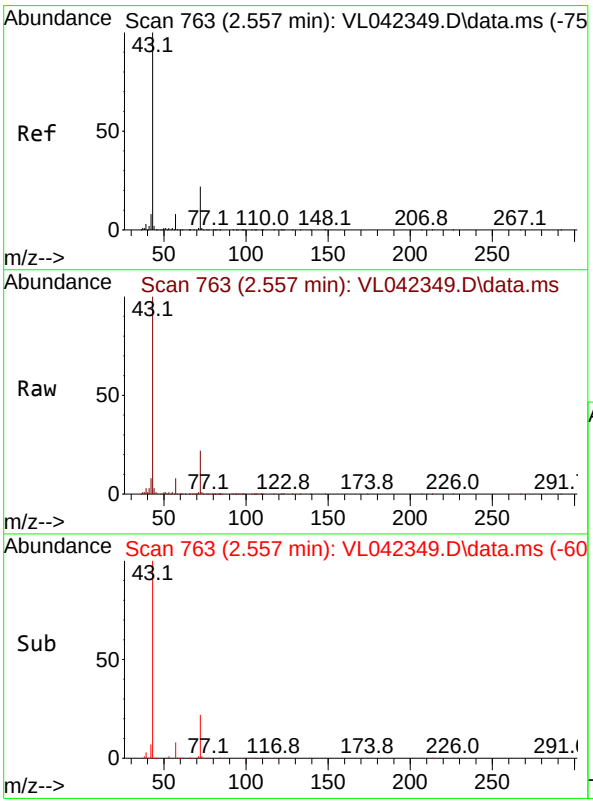

#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion:114 Resp: 366544

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 27.2 | 21.8 | 32.6 |
| 88 | 19.4 | 15.5 | 23.3 |

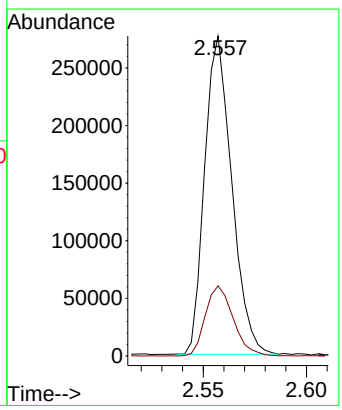


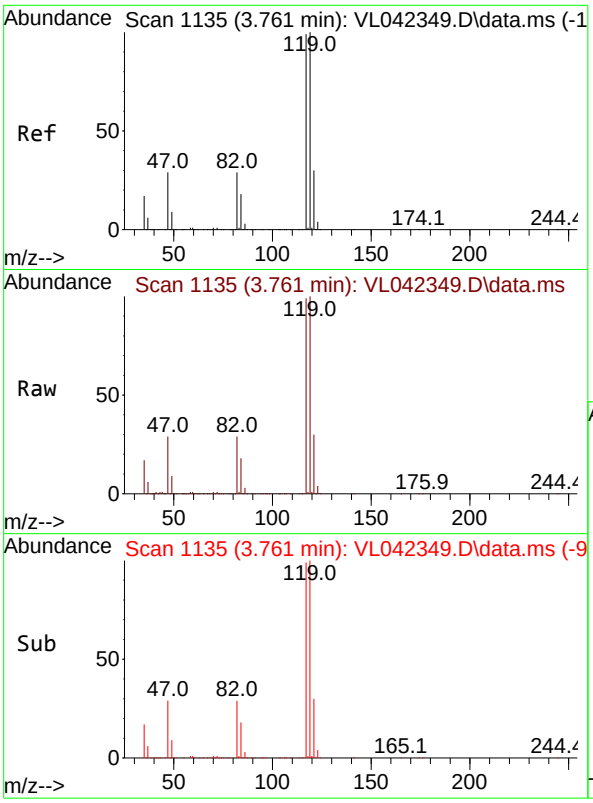




#34
2-Butanone
Concen: 8.683 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 43 Resp: 251704

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 22.7 | 18.2 | 27.2 |



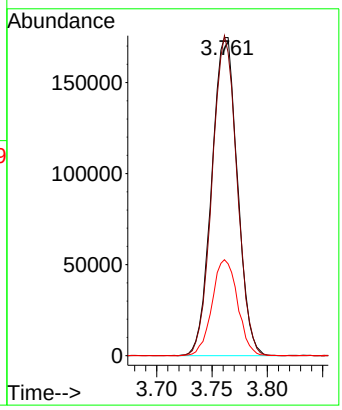


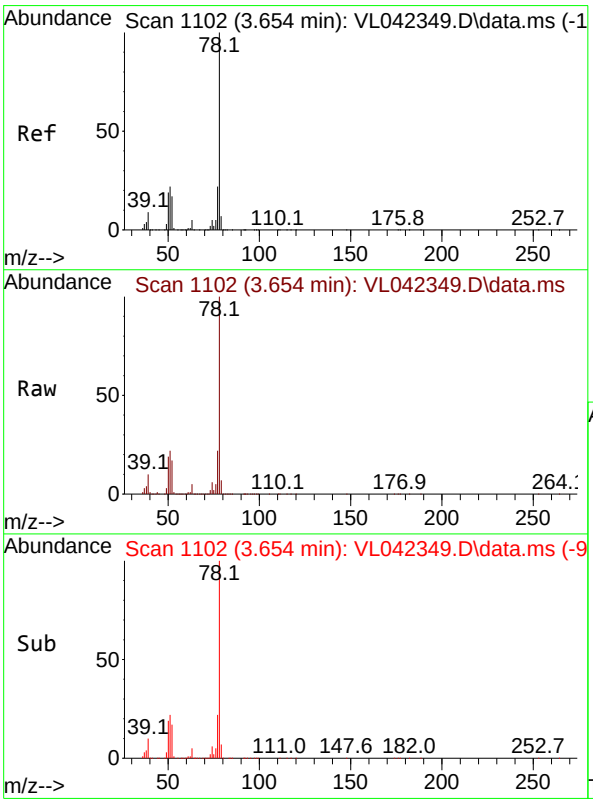

#35
Carbon Tetrachloride
Concen: 8.513 ppbv
RT: 3.761 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion:117 Resp: 282402

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 100.6 | 80.5 | 120.7 |
| 121 | 30.2 | 24.2 | 36.2 |

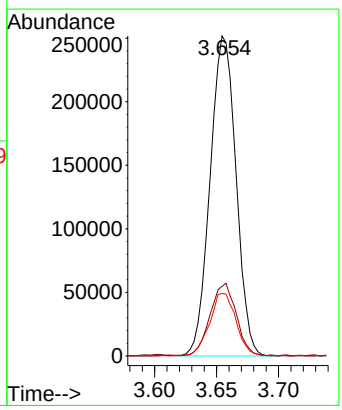


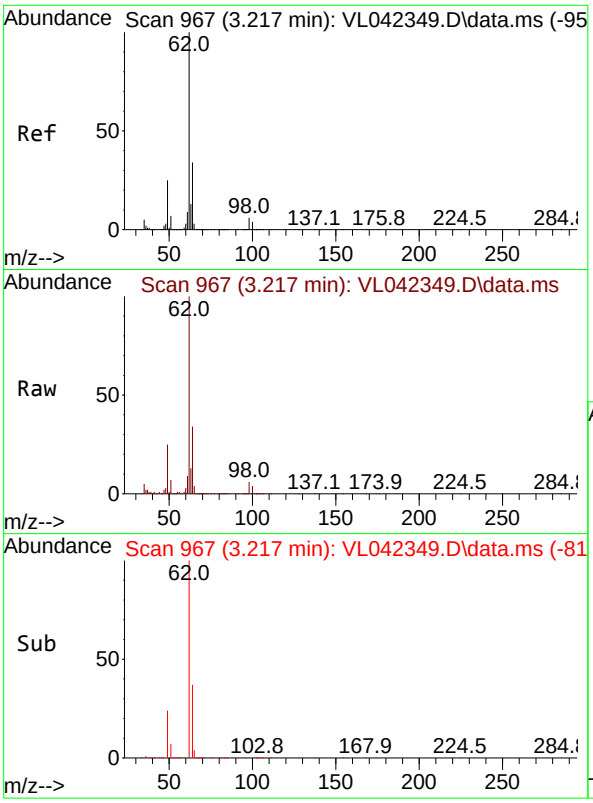




#36
Benzene
Concen: 9.292 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 78 Resp: 367355

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 21.7 | 17.4 | 26.0 |
| 50 | 19.4 | 15.5 | 23.3 |



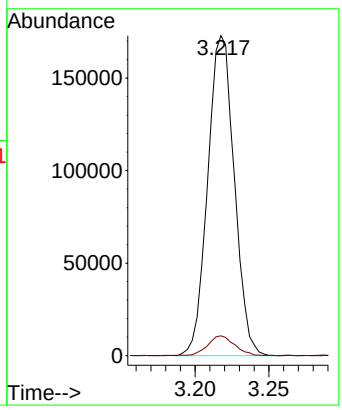


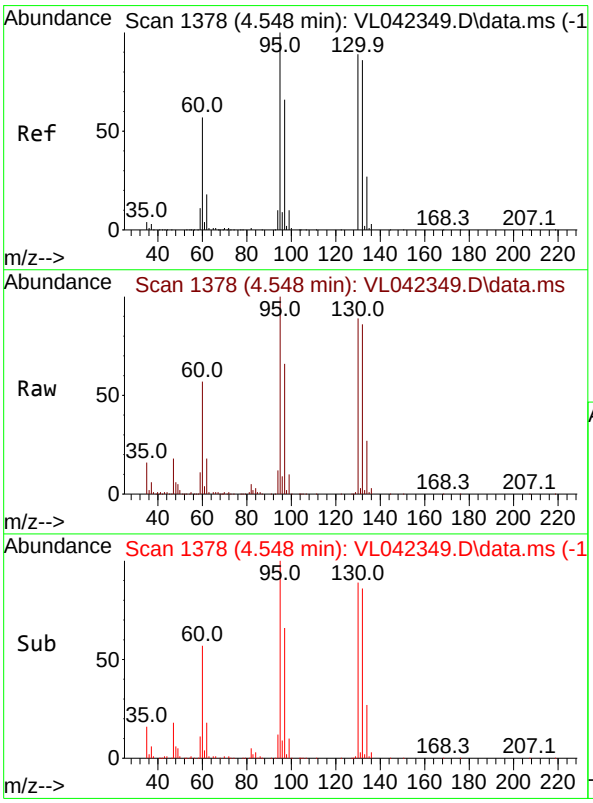

#37
1,2-Dichloroethane
Concen: 9.145 ppbv
RT: 3.217 min Scan# 9
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion: 62 Resp: 216999

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 6.4 | 5.1 | 7.7 |

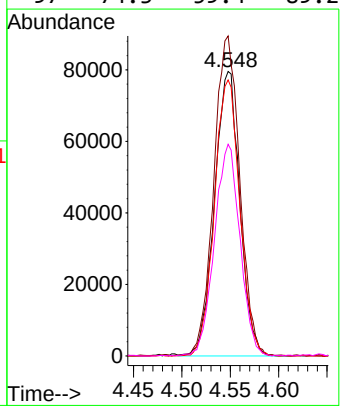


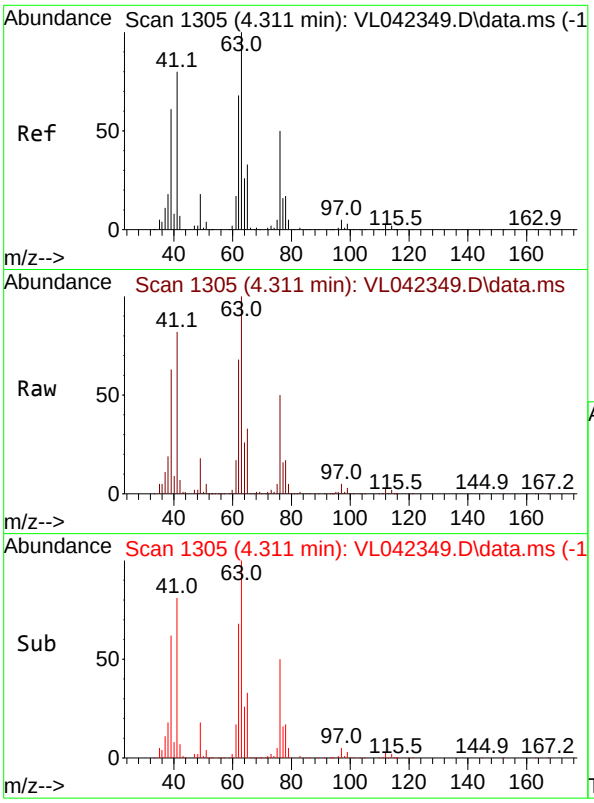




#38
Trichloroethene
Concen: 8.352 ppbv
RT: 4.548 min Scan# 1378
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:130 Resp: 144767

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 112.2 | 89.8 | 134.6 |
| 132 | 97.1 | 77.7 | 116.5 |
| 97 | 74.3 | 59.4 | 89.2 |



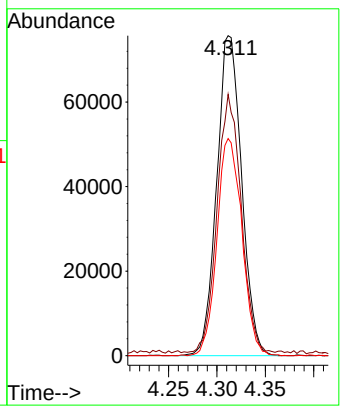


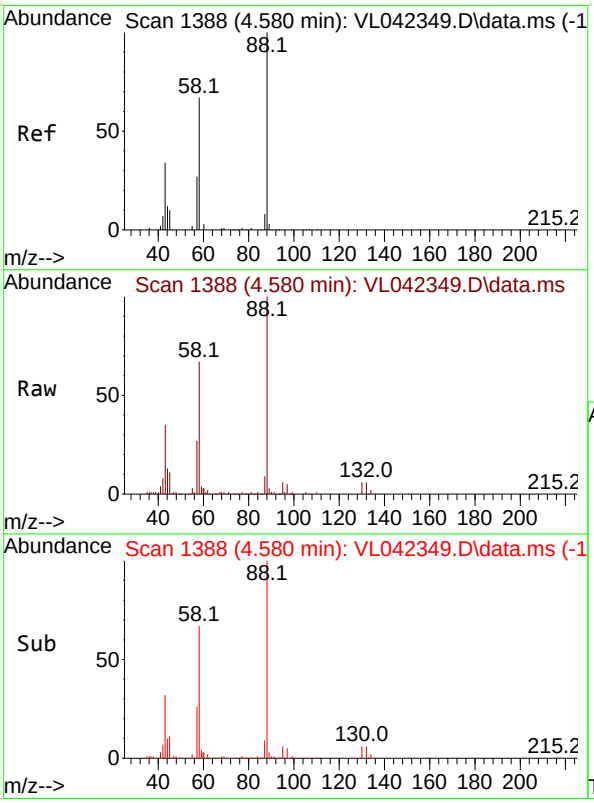

#39
1,2-Dichloropropane
Concen: 9.197 ppbv
RT: 4.311 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion: 63 Resp: 135605

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 80.2 | 64.2 | 96.2 |
| 62 | 67.9 | 54.3 | 81.5 |

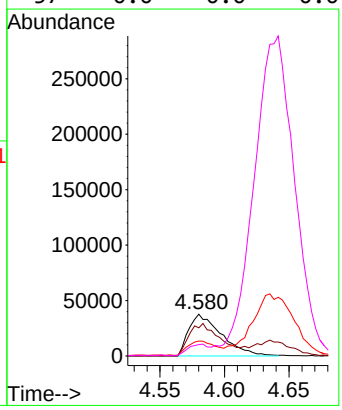


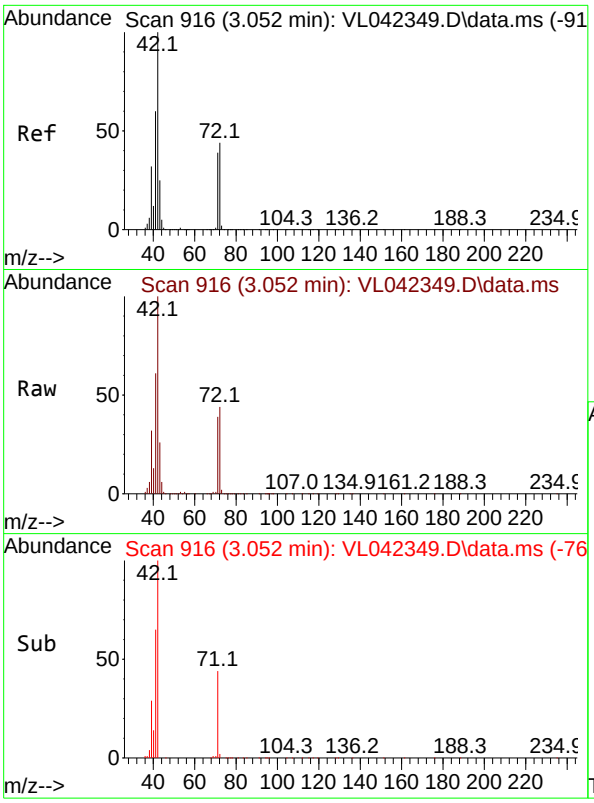




#40
1,4-Dioxane
Concen: 8.348 ppbv
RT: 4.580 min Scan# 1388
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 88 Resp: 66662

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 76.7 | 61.4 | 92.0 |
| 43 | 29.0 | 23.2 | 34.8 |
| 57 | 0.0 | 0.0 | 0.0 |



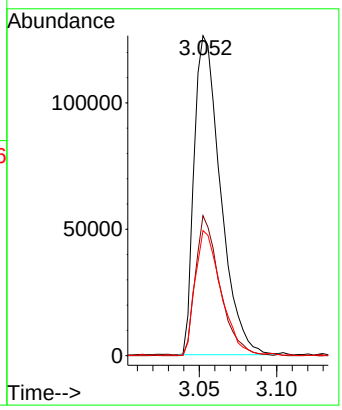


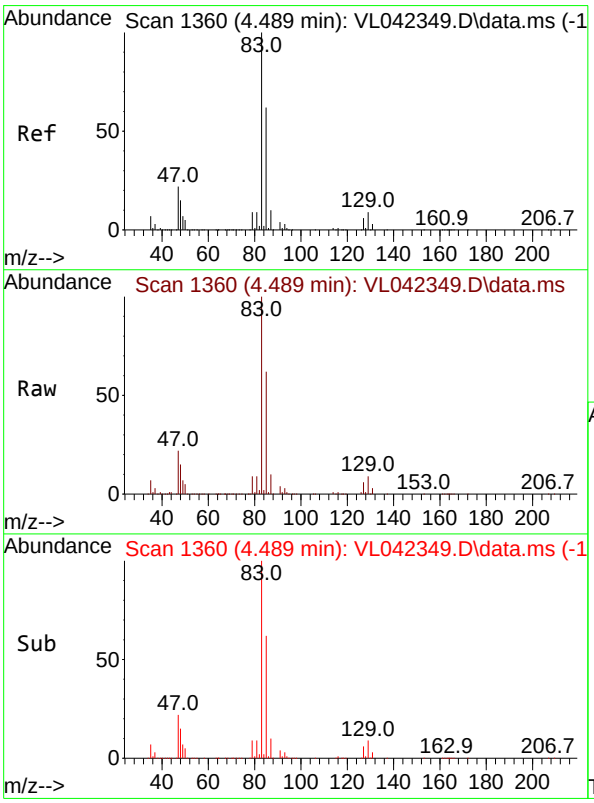

#41
Tetrahydrofuran
Concen: 8.950 ppbv
RT: 3.052 min Scan# 91
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion: 42 Resp: 149905

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 40.4 | 32.3 | 48.5 |
| 71 | 39.3 | 31.4 | 47.2 |

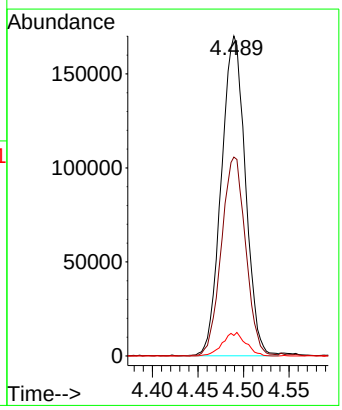


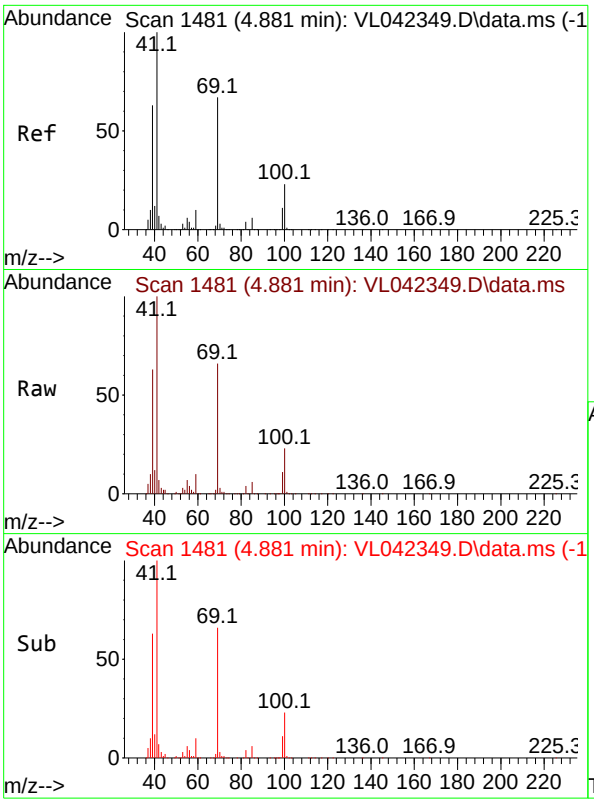




#42
Bromodichloromethane
Concen: 9.456 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 83 Resp: 312268

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.1 | 49.7 | 74.5 |
| 127 | 6.4 | 5.1 | 7.7 |



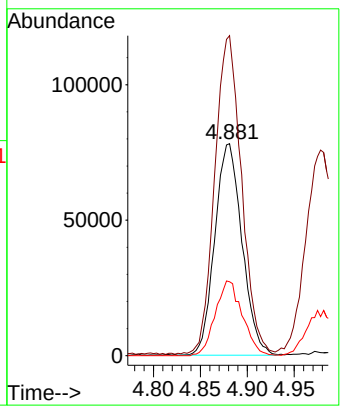


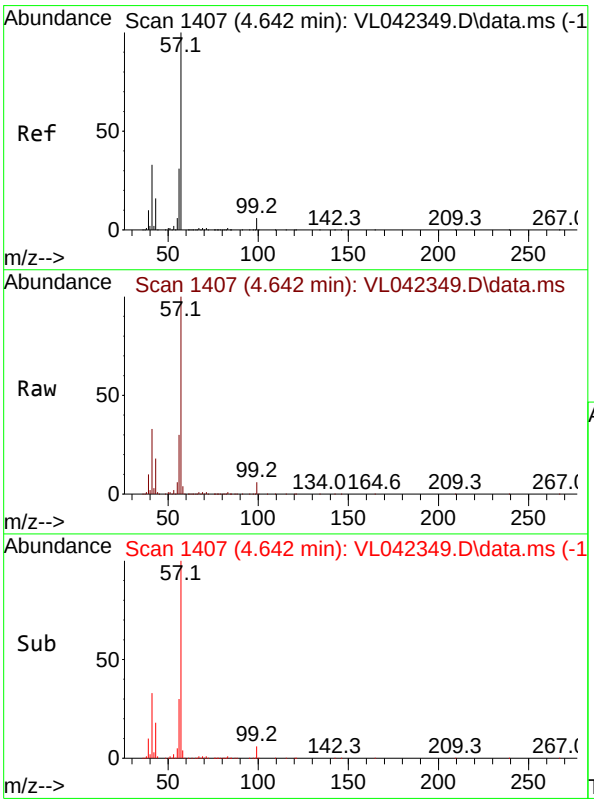

#43
Methyl Methacrylate
Concen: 8.876 ppbv
RT: 4.881 min Scan# 14
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion: 69 Resp: 157501

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 148.2 | 118.6 | 177.8 |
| 100 | 35.2 | 28.2 | 42.2 |

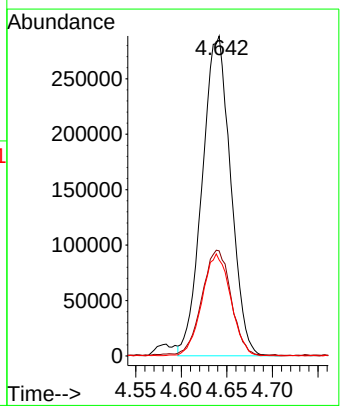


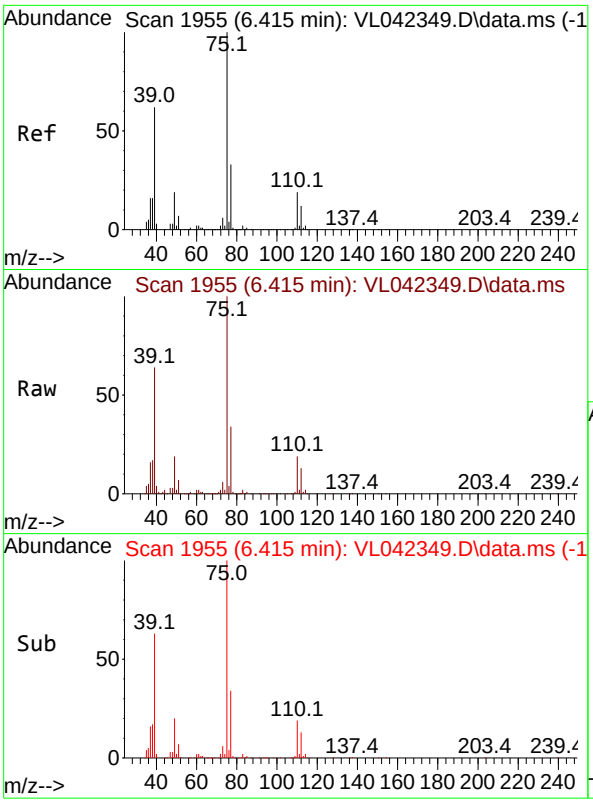




#44
2,2,4-Trimethylpentane
Concen: 9.157 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 57 Resp: 626085

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 34.0 | 27.2 | 40.8 |
| 56 | 32.1 | 25.7 | 38.5 |



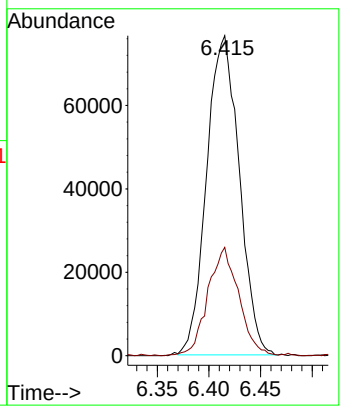


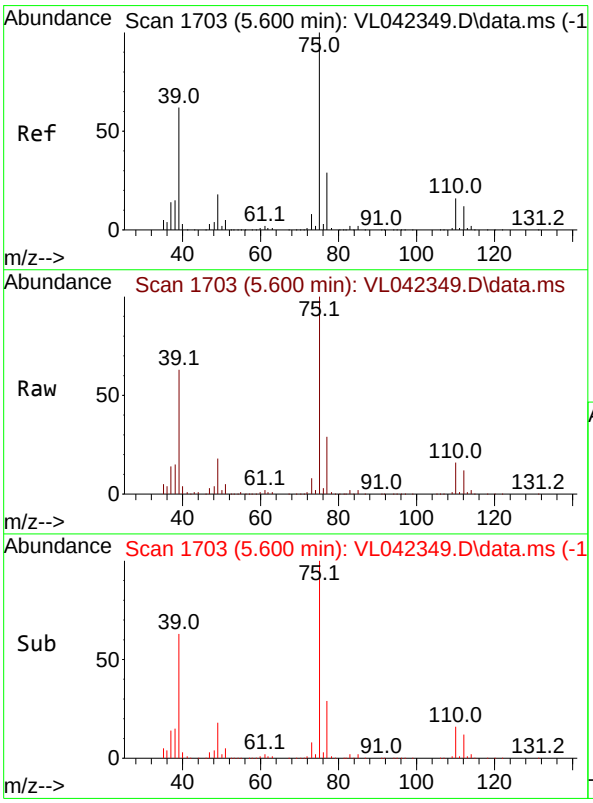

#45
t-1,3-Dichloropropene
Concen: 9.233 ppbv
RT: 6.415 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion: 75 Resp: 168223

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 33.8 | 27.0 | 40.6 |

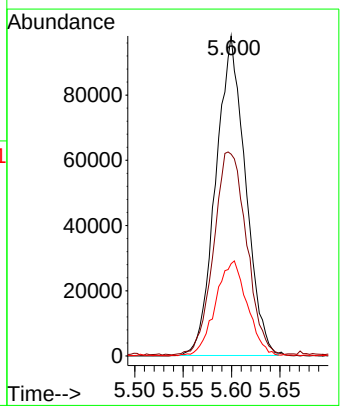


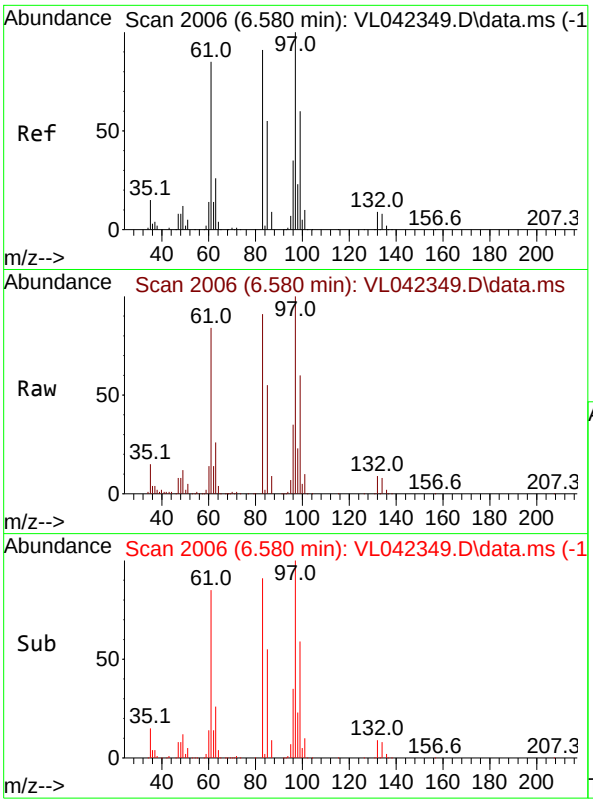




#46
cis-1,3-Dichloropropene
Concen: 9.377 ppbv
RT: 5.600 min Scan# 1703
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 75 Resp: 208811

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 39 | 62.5 | 50.0 | 75.0 |
| 77 | 28.8 | 23.0 | 34.6 |



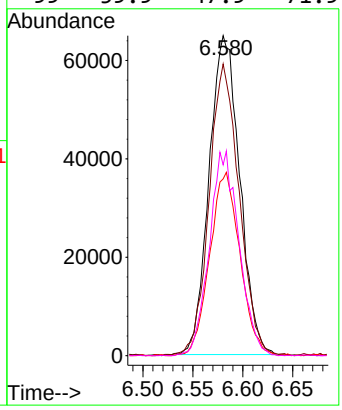


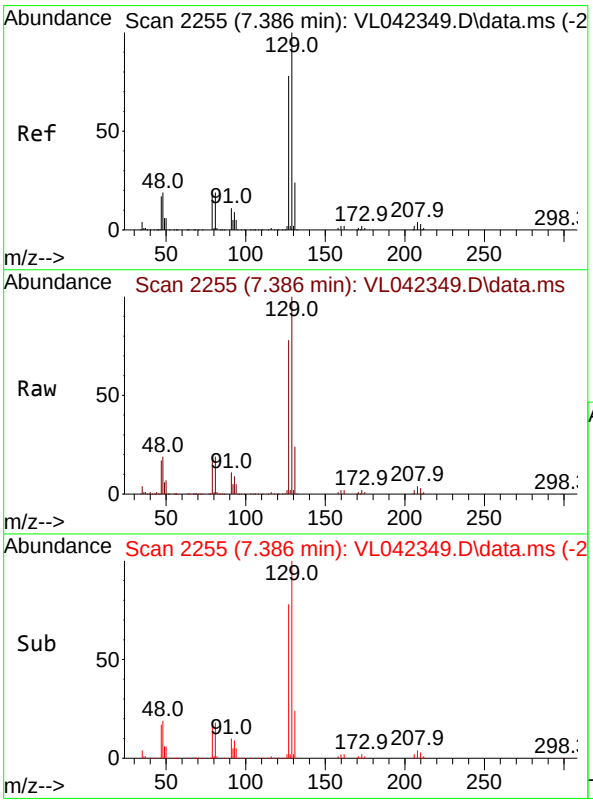

#47
1,1,2-Trichloroethane
Concen: 9.181 ppbv
RT: 6.580 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion: 97 Resp: 137898

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 91.0 | 72.8 | 109.2 |
| 85 | 55.3 | 44.2 | 66.4 |
| 99 | 59.9 | 47.9 | 71.9 |

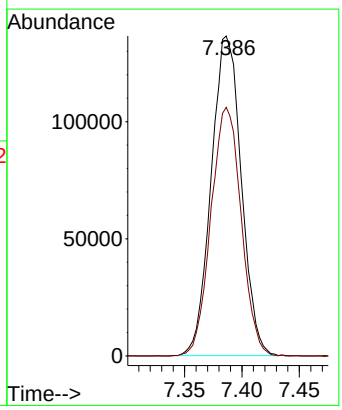


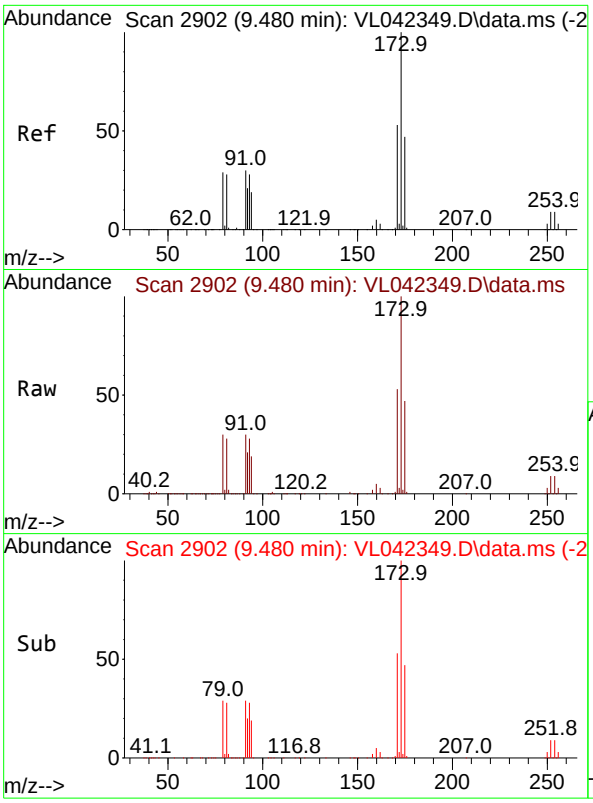




#48
Dibromochloromethane
Concen: 9.388 ppbv
RT: 7.386 min Scan# 2255
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:129 Resp: 248954

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.2 | 39.1 | 117.3 |



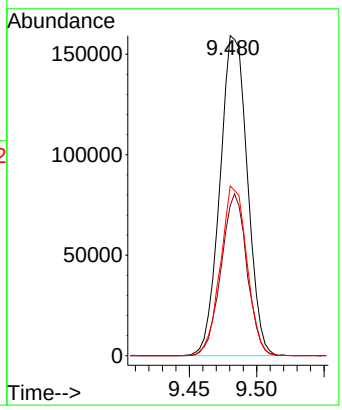


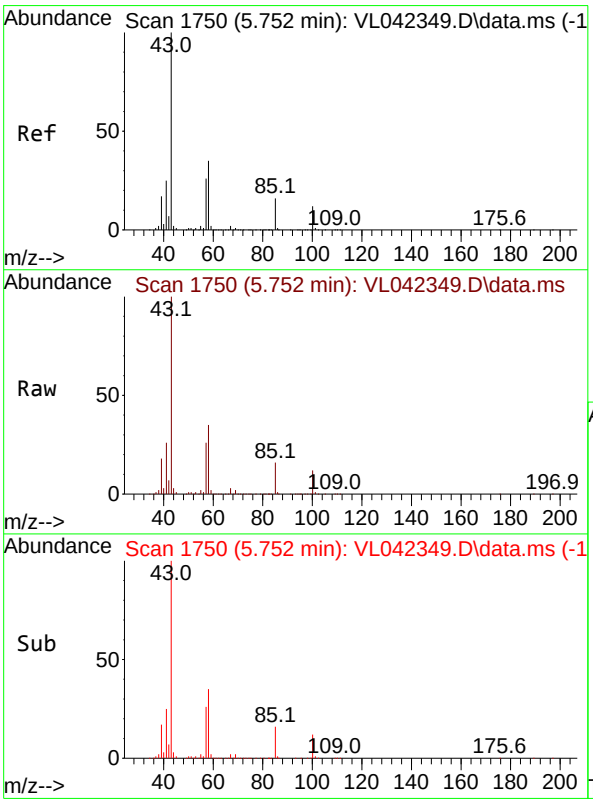

#49
Bromoform
Concen: 9.734 ppbv
RT: 9.480 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion:173 Resp: 225706

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 47.7 | 38.2 | 57.2 |
| 171 | 51.1 | 40.9 | 61.3 |

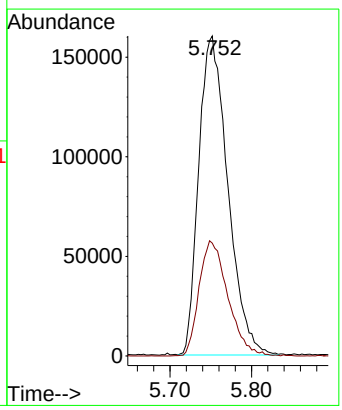


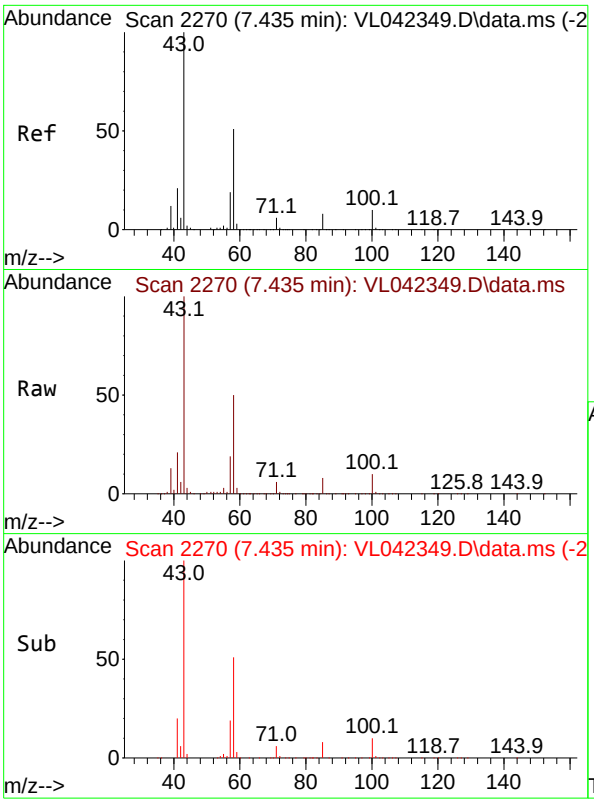




#50
4-Methyl-2-Pentanone
Concen: 8.215 ppbv
RT: 5.752 min Scan# 1750
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 43 Resp: 396548

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 35.8 | 28.6 | 43.0 |



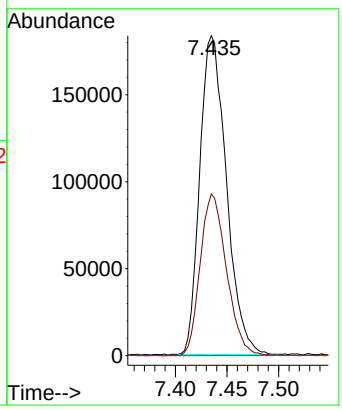


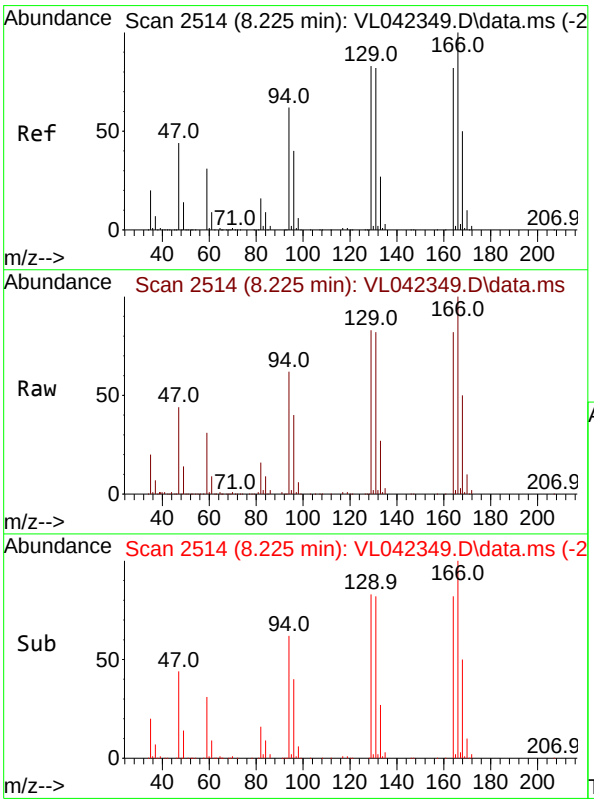

#51
2-Hexanone
Concen: 7.511 ppbv
RT: 7.435 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion: 43 Resp: 327165

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 50.3 | 40.2 | 60.4 |
| 98 | 0.1 | 0.1 | 0.1 |

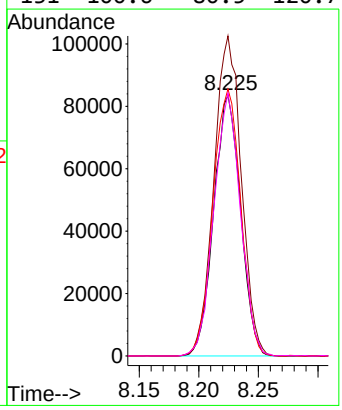


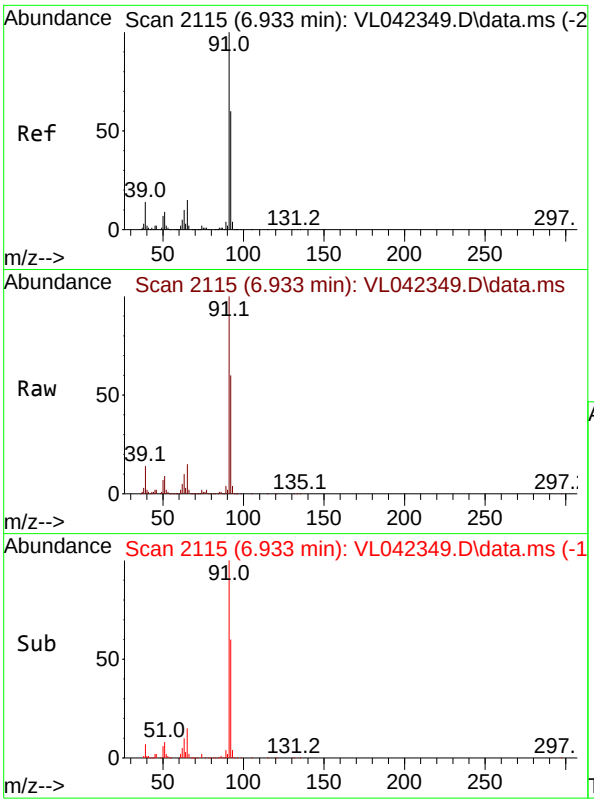




#52
Tetrachloroethene
Concen: 8.553 ppbv
RT: 8.225 min Scan# 2514
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:164 Resp: 130720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 122.7 | 98.2 | 147.2 |
| 129 | 102.3 | 81.8 | 122.8 |
| 131 | 100.6 | 80.5 | 120.7 |



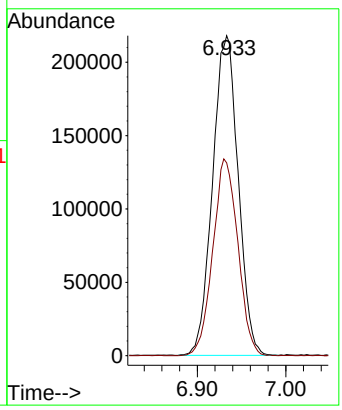


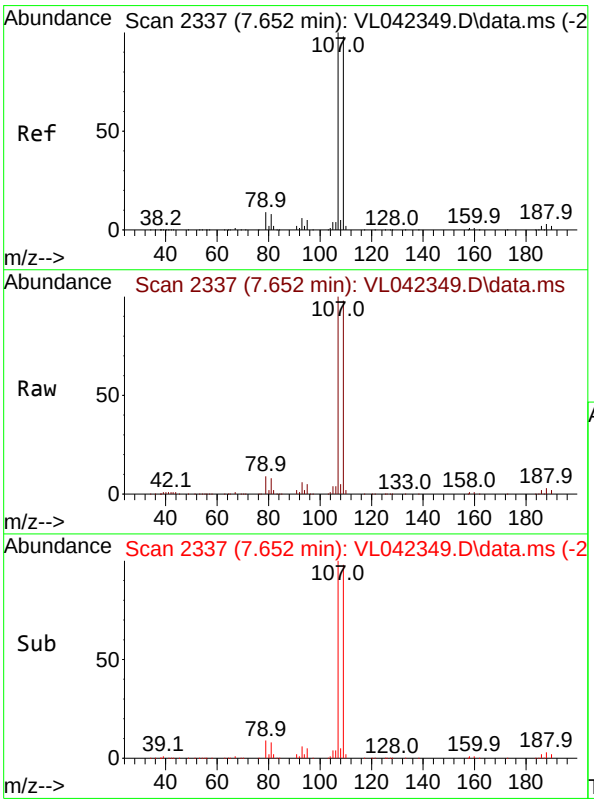

#53
Toluene
Concen: 9.216 ppbv
RT: 6.933 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion: 91 Resp: 437258

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 60.3 | 48.2 | 72.4 |

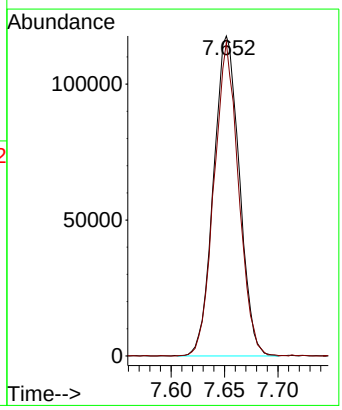


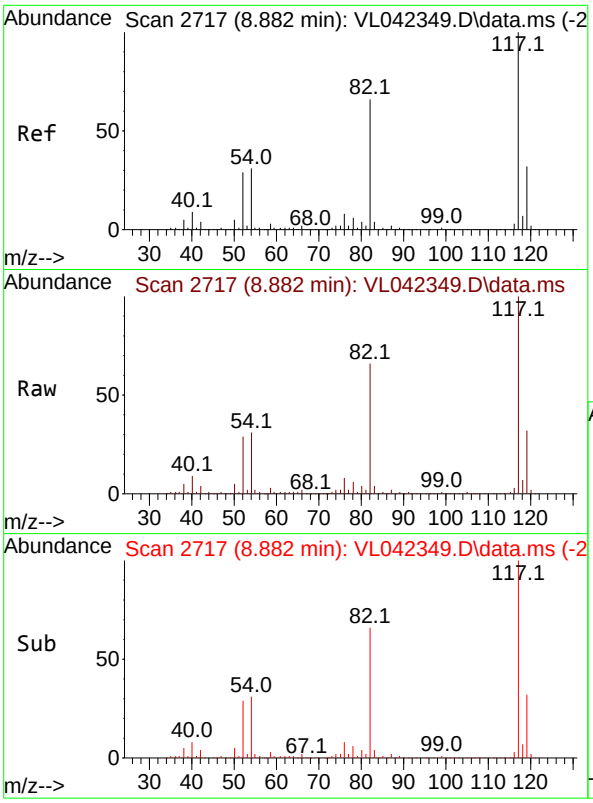




#54
1,2-Dibromoethane
Concen: 9.235 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:107 Resp: 197665

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 97.8 | 78.2 | 117.4 |



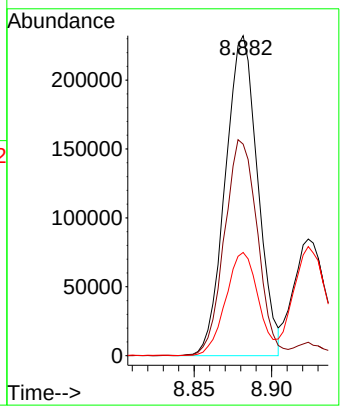


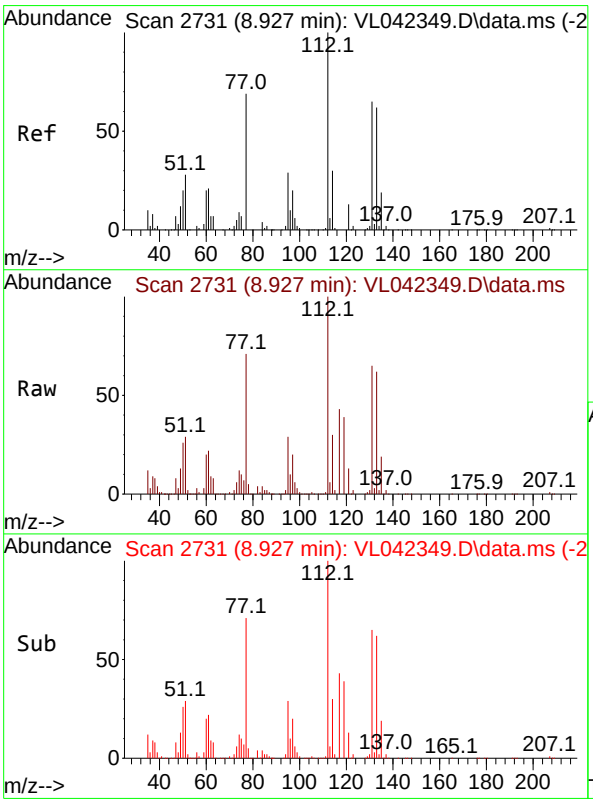

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion:117 Resp: 338126

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 72.2 | 57.8 | 86.6 |
| 119 | 31.5 | 25.2 | 37.8 |

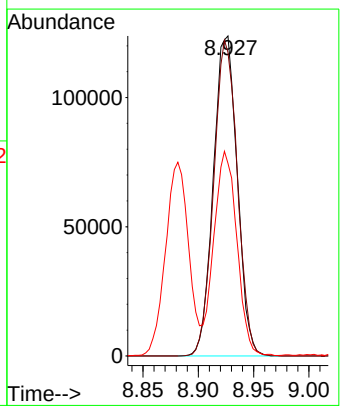


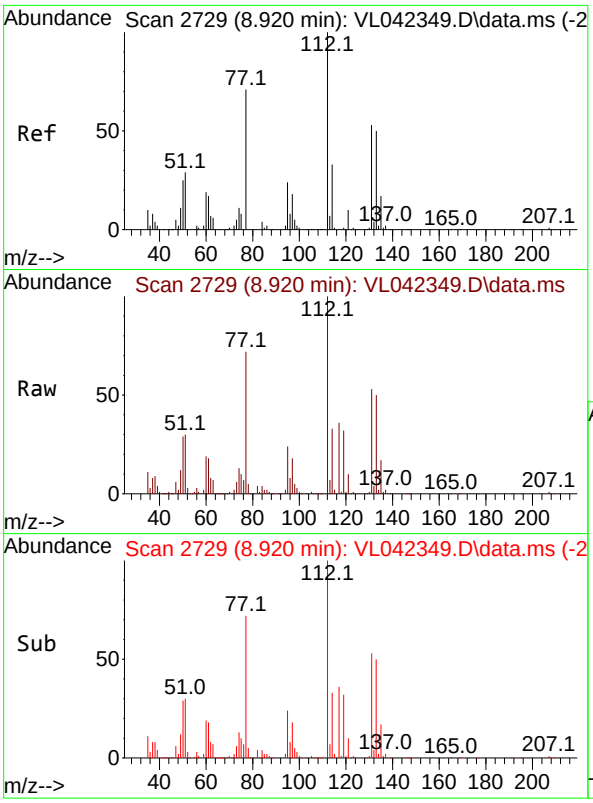




#56
1,1,1,2-Tetrachloroethane
Concen: 9.091 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:131 Resp: 186041

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 97.9 | 78.3 | 117.5 |
| 119 | 60.9 | 48.7 | 73.1 |



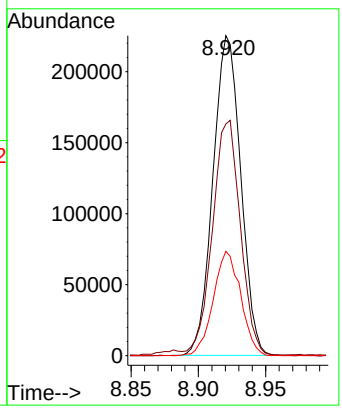


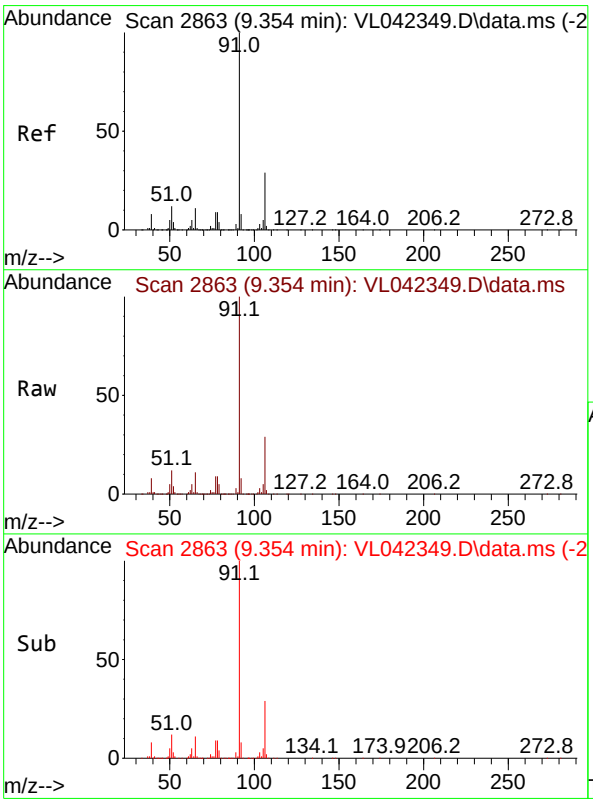

#57
Chlorobenzene
Concen: 9.187 ppbv
RT: 8.920 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion:112 Resp: 323084

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 72.2 | 57.8 | 86.6 |
| 114 | 32.6 | 29.3 | 35.9 |

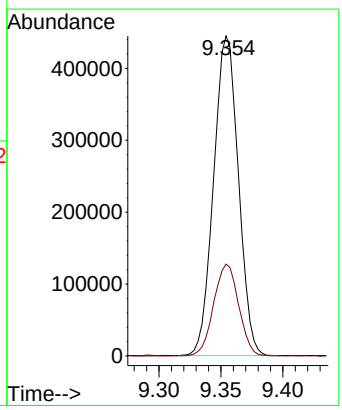


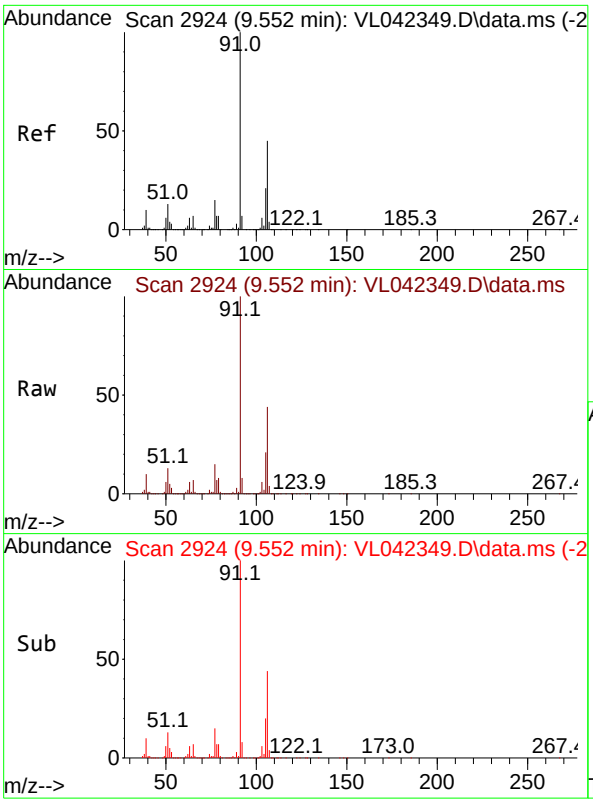




#58
Ethyl Benzene
Concen: 9.248 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 91 Resp: 619581

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 28.7 | 23.0 | 34.4 |



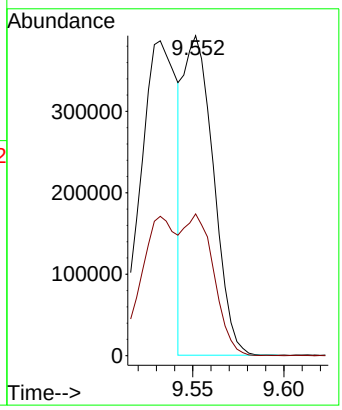


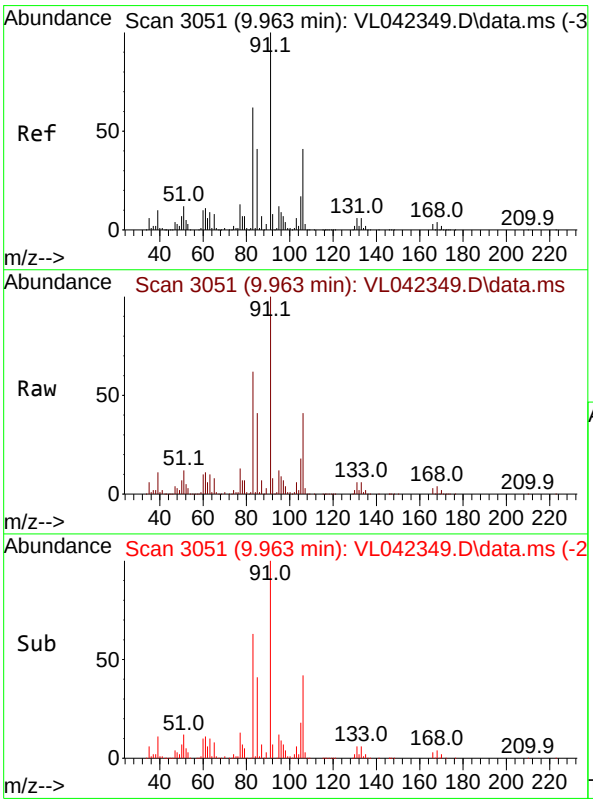

#59
m/p-Xylene
Concen: 8.299 ppbv
RT: 9.552 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion: 91 Resp: 449222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 97.0 | 35.4 | 53.2# |

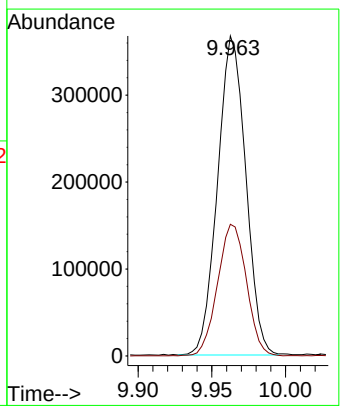


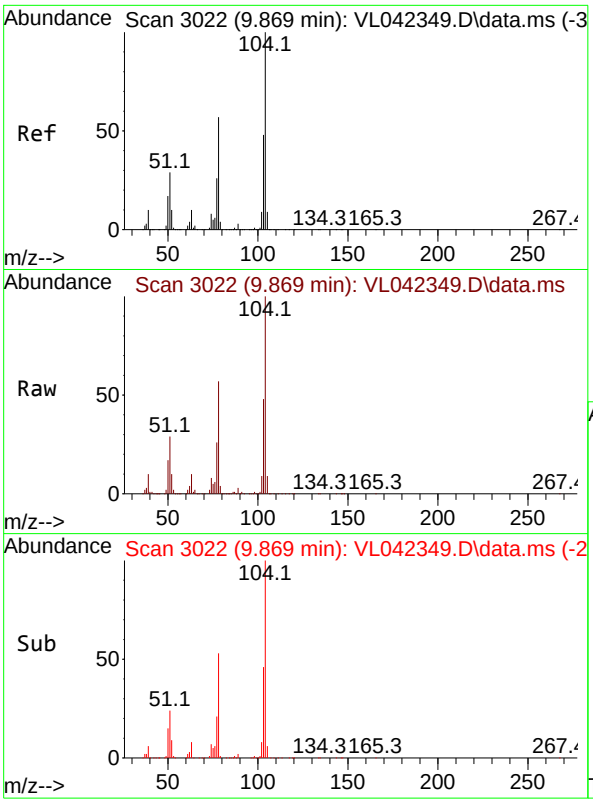




#60
o-Xylene
Concen: 8.972 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 91 Resp: 487616

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 42.3 | 21.1 | 63.4 |



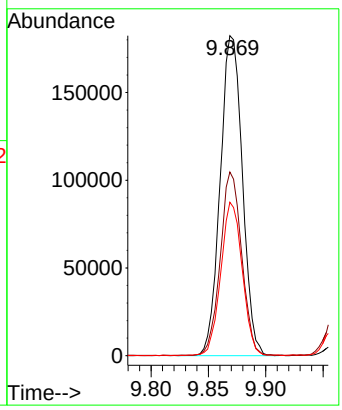


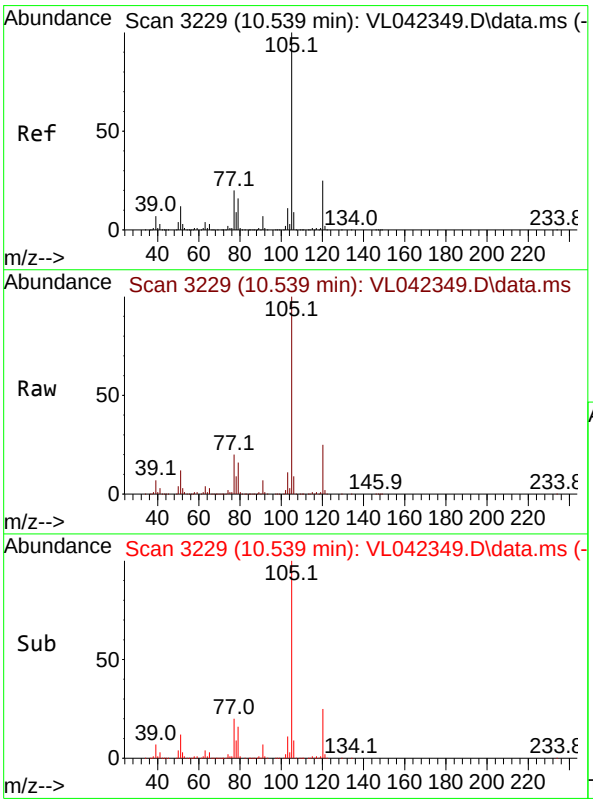

#61
Styrene
Concen: 9.464 ppbv
RT: 9.869 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion:104 Resp: 245487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 55.7 | 44.6 | 66.8 |
| 103 | 46.7 | 37.4 | 56.0 |

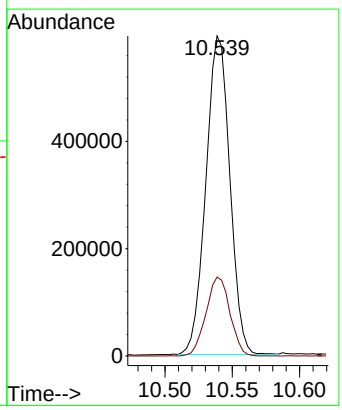


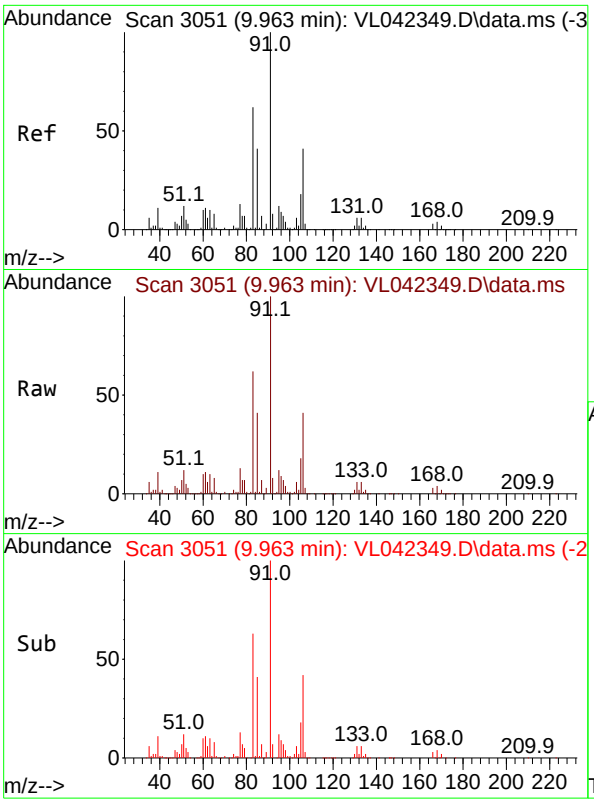




#62
Isopropylbenzene
Concen: 9.197 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:105 Resp: 733788

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 24.8 | 19.8 | 29.8 |



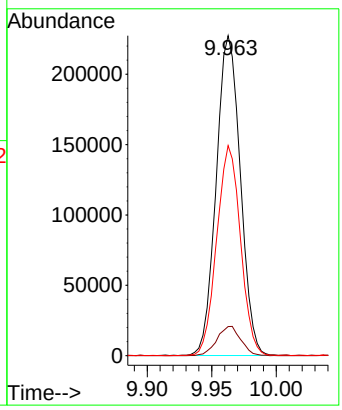


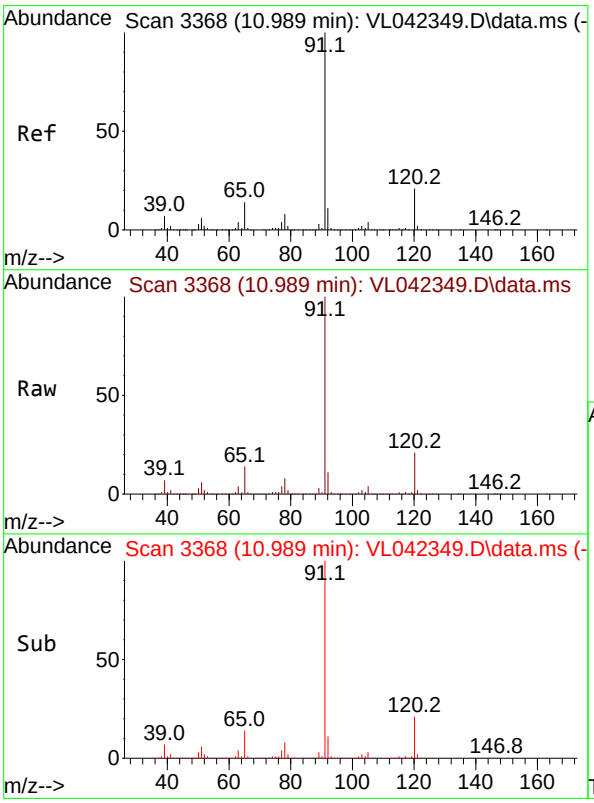

#63
1,1,2,2-Tetrachloroethane
Concen: 8.355 ppbv
RT: 9.963 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion: 83 Resp: 295041

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.1 | 4.5 | 13.7 |
| 85 | 64.7 | 32.4 | 97.0 |

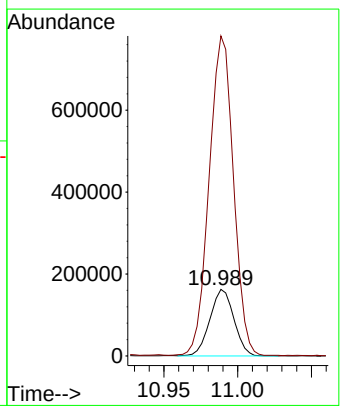


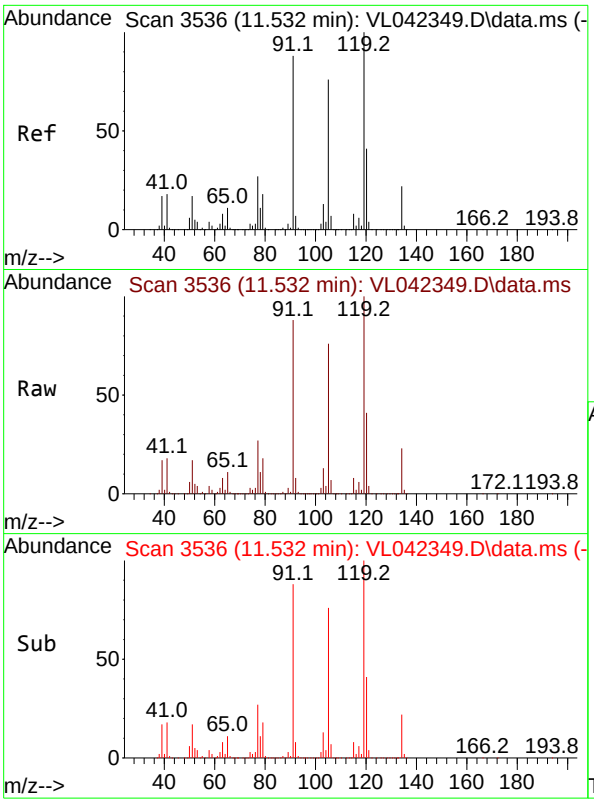




#64
n-propylbenzene
Concen: 9.144 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:120 Resp: 183390

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 490.5 | 392.4 | 588.6 |



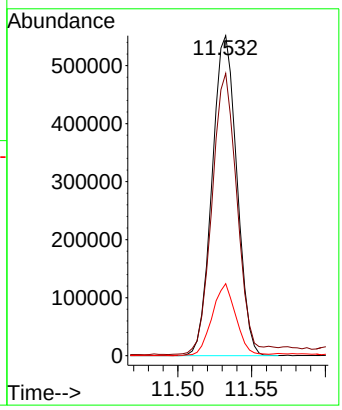


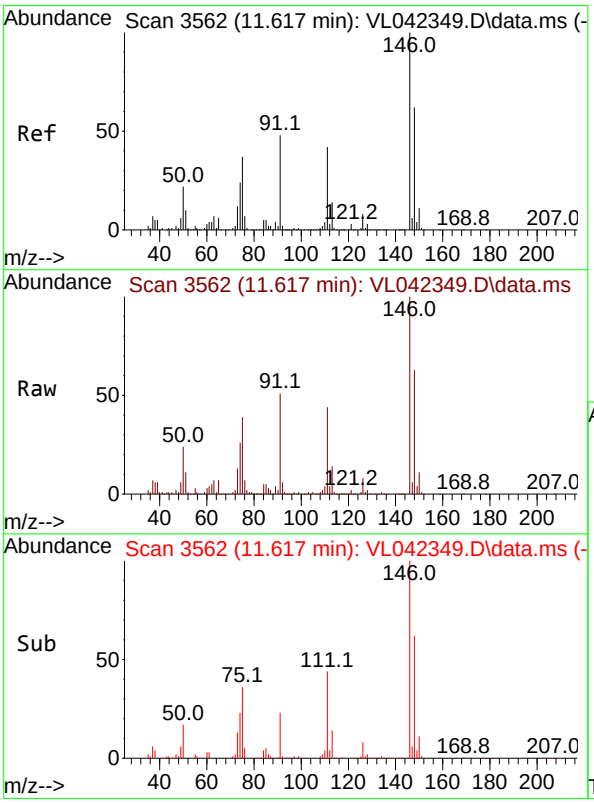

#65
tert-Butylbenzene
Concen: 8.795 ppbv
RT: 11.532 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion:119 Resp: 644953

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 93.2 | 74.6 | 111.8 |
| 134 | 23.5 | 18.8 | 28.2 |

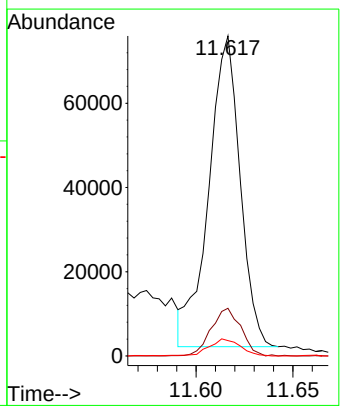


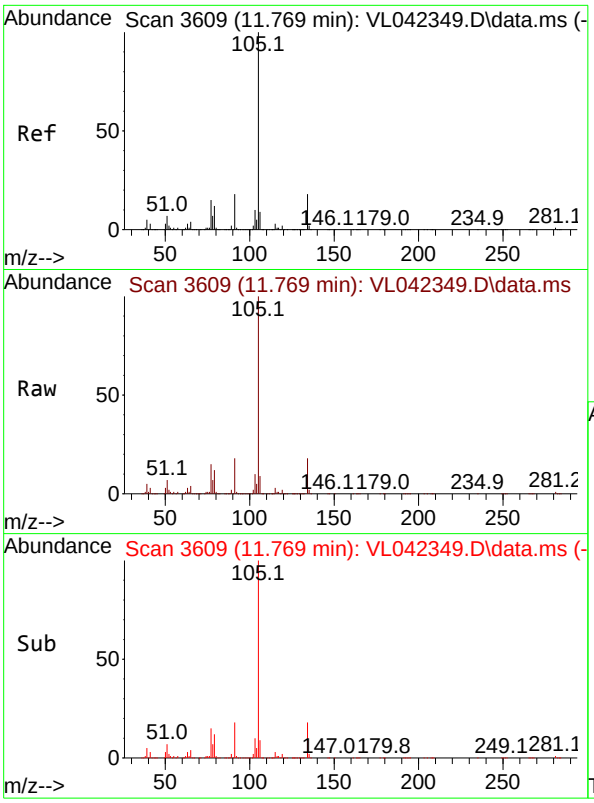




#66
Benzyl Chloride
Concen: 10.333 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 91 Resp: 83269

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 14.7 | 11.8 | 17.6 |
| 128 | 5.6 | 4.5 | 6.7 |



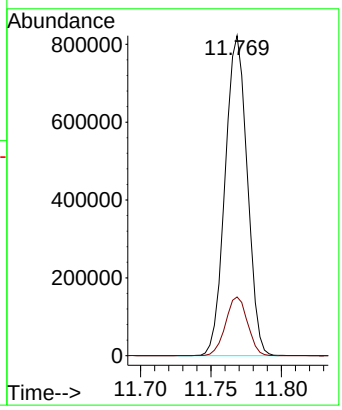


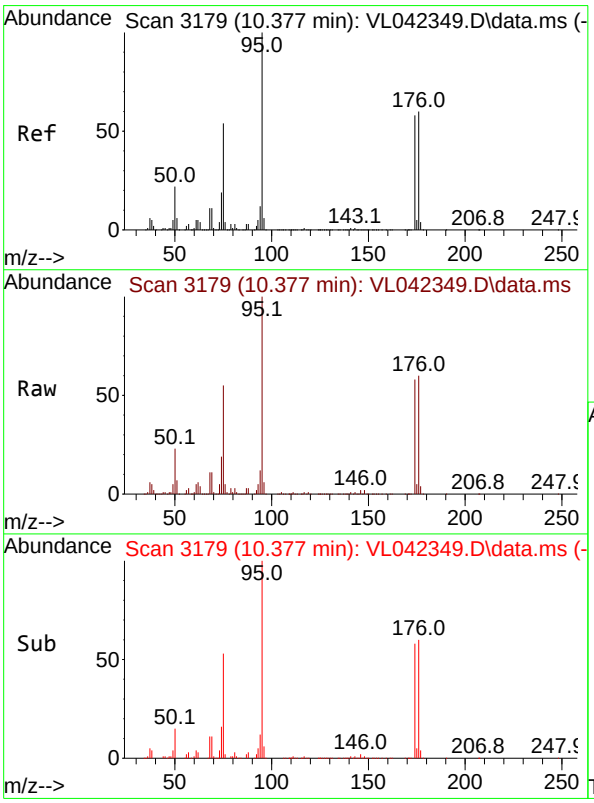

#67
sec-Butylbenzene
Concen: 8.824 ppbv
RT: 11.769 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion:105 Resp: 900074

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 18.2 | 14.6 | 21.8 |

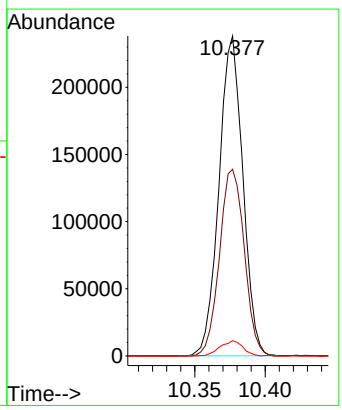


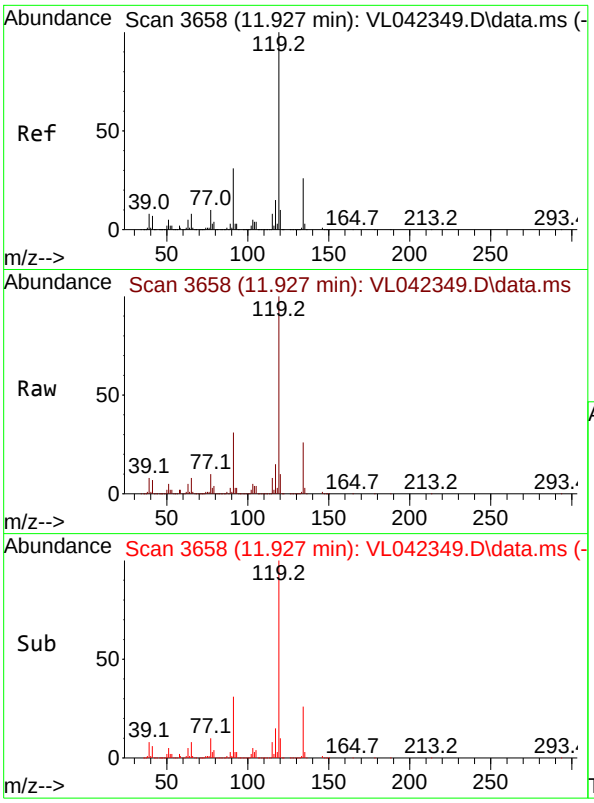




#68
1-Bromo-4-Fluorobenzene
Concen: 10.114 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 95 Resp: 281013

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 60.6 | 48.5 | 72.7 |
| 175 | 4.6 | 3.7 | 5.5 |



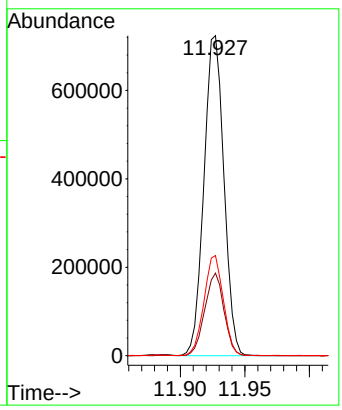


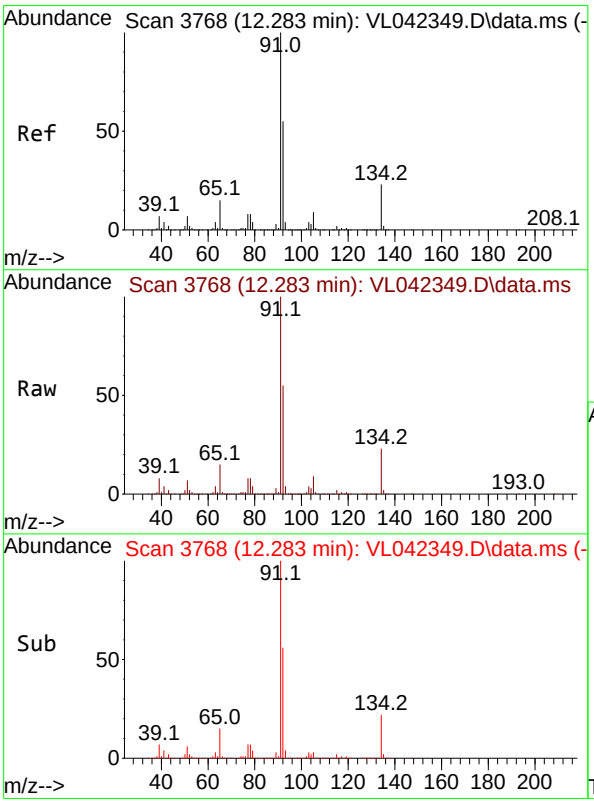

#69
p-Isopropyltoluene
Concen: 8.790 ppbv
RT: 11.927 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion:119 Resp: 778987

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.0 | 20.0 | 30.0 |
| 91 | 30.5 | 24.4 | 36.6 |

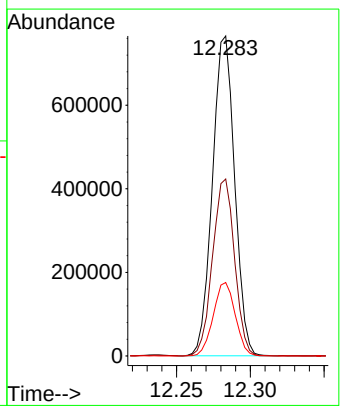


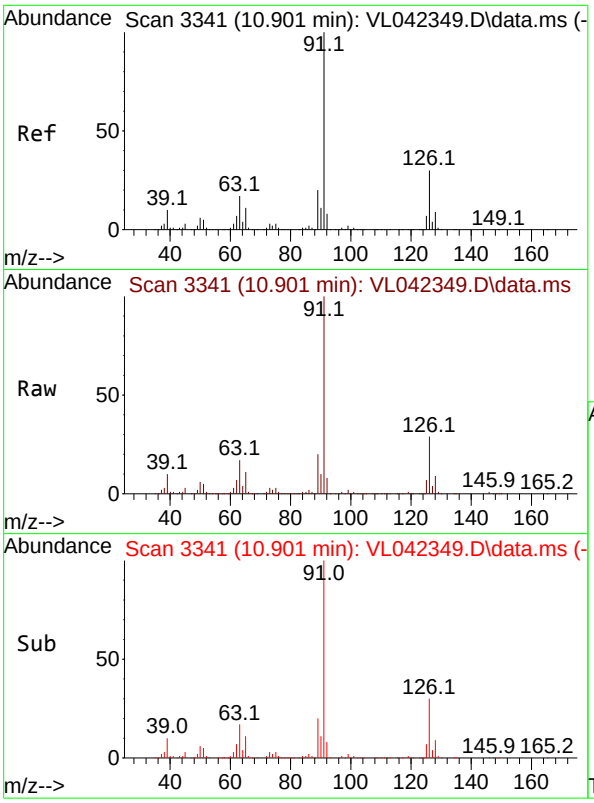




#70
n-Butylbenzene
Concen: 8.682 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 91 Resp: 801364

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 55.3 | 44.2 | 66.4 |
| 134 | 22.8 | 18.2 | 27.4 |



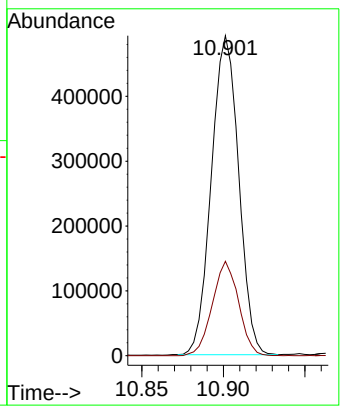


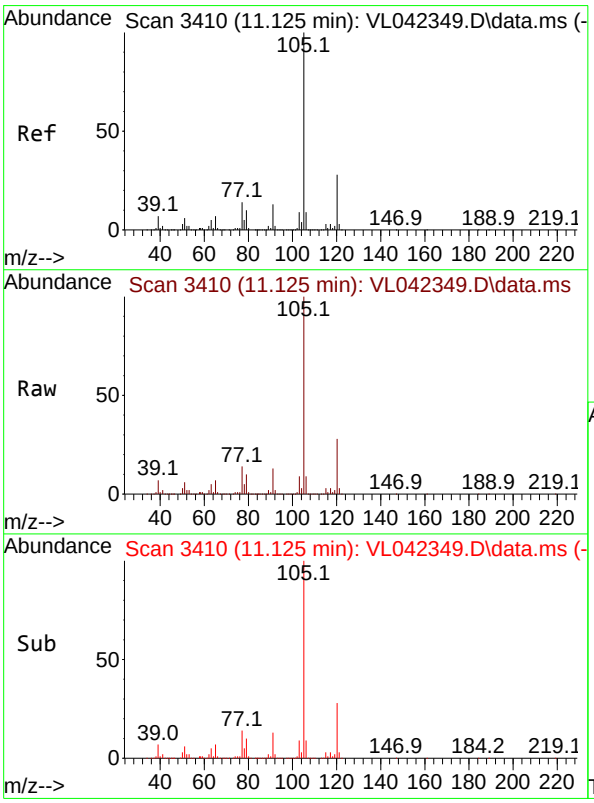

#71
2-Chlorotoluene
Concen: 9.157 ppbv
RT: 10.901 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion: 91 Resp: 573039

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 28.4 | 11.4 | 45.4 |

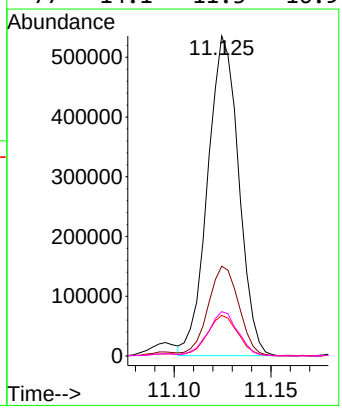


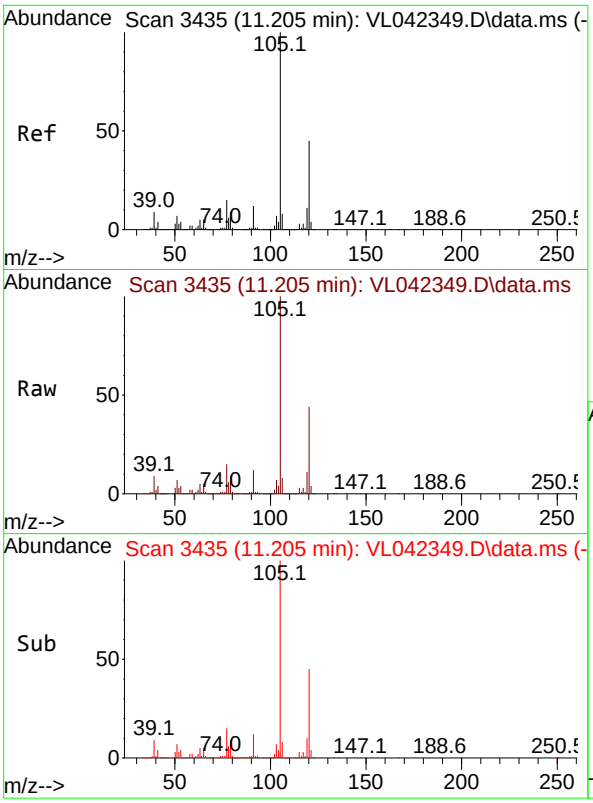




#72
4-Ethyltoluene
Concen: 8.982 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:105 Resp: 596757

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 29.0 | 23.2 | 34.8 |
| 91 | 13.0 | 10.4 | 15.6 |
| 77 | 14.1 | 11.3 | 16.9 |



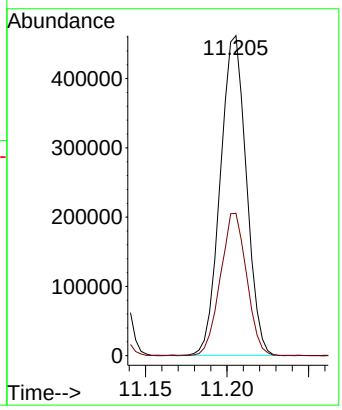


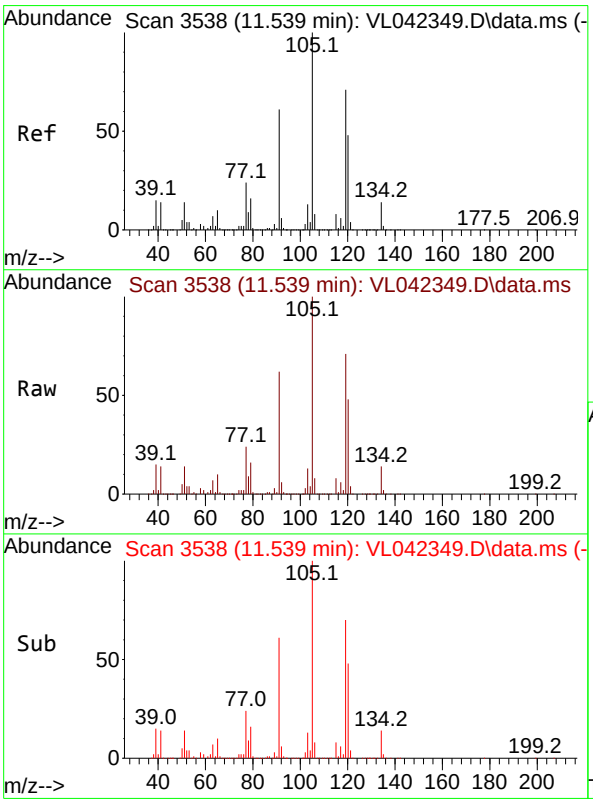

#73
1,3,5-Trimethylbenzene
Concen: 8.743 ppbv
RT: 11.205 min Scan# 34
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion:105 Resp: 512855

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.5 | 35.6 | 53.4 |

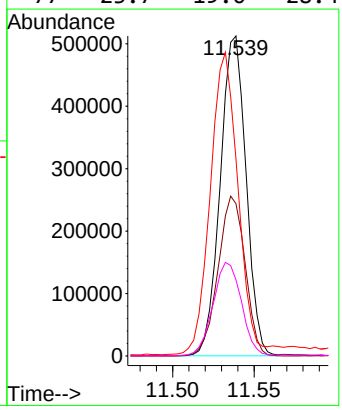


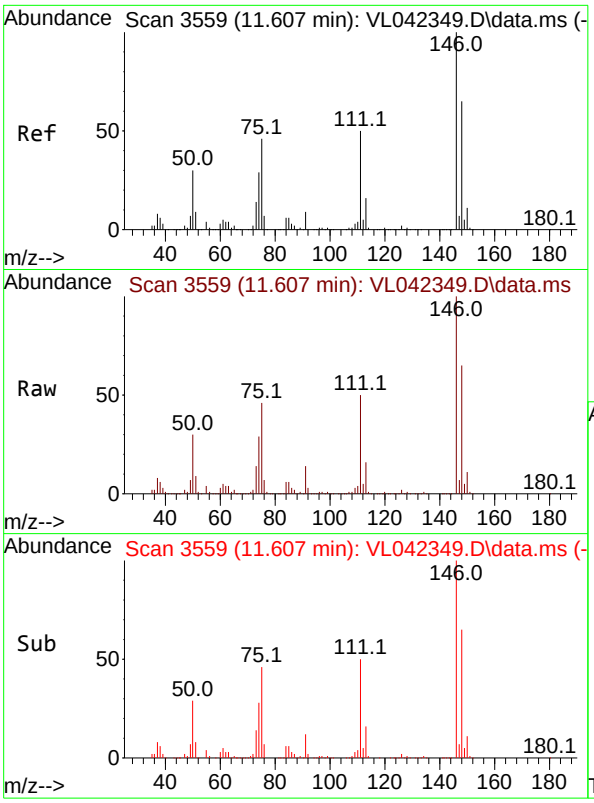




#74
1,2,4-Trimethylbenzene
Concen: 8.248 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:105 Resp: 565064

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.6 | 38.1 | 57.1 |
| 91 | 61.0 | 48.8 | 73.2 |
| 77 | 23.7 | 19.0 | 28.4 |



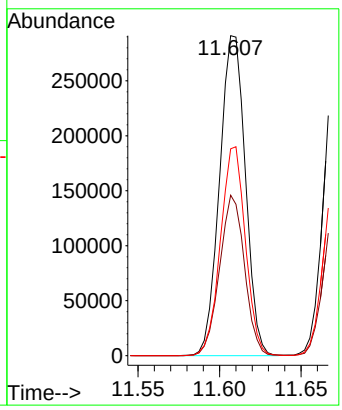


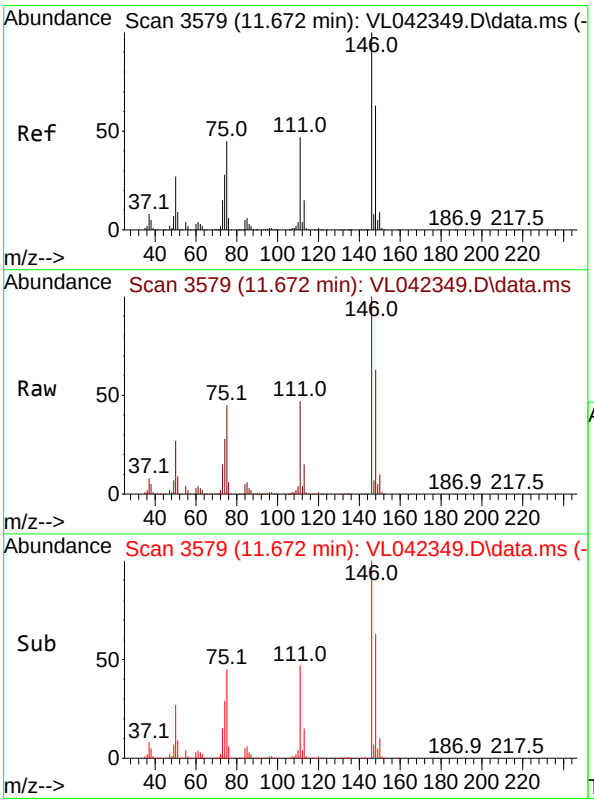

#75
1,3-Dichlorobenzene
Concen: 8.997 ppbv
RT: 11.607 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion:146 Resp: 320380

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 48.5 | 24.3 | 72.8 |
| 148 | 63.2 | 31.6 | 94.8 |

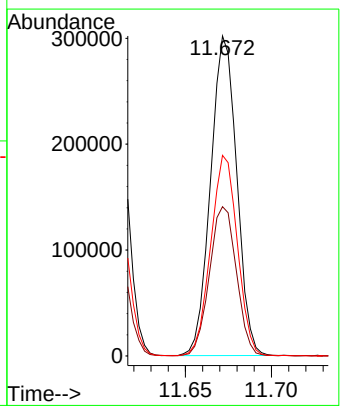


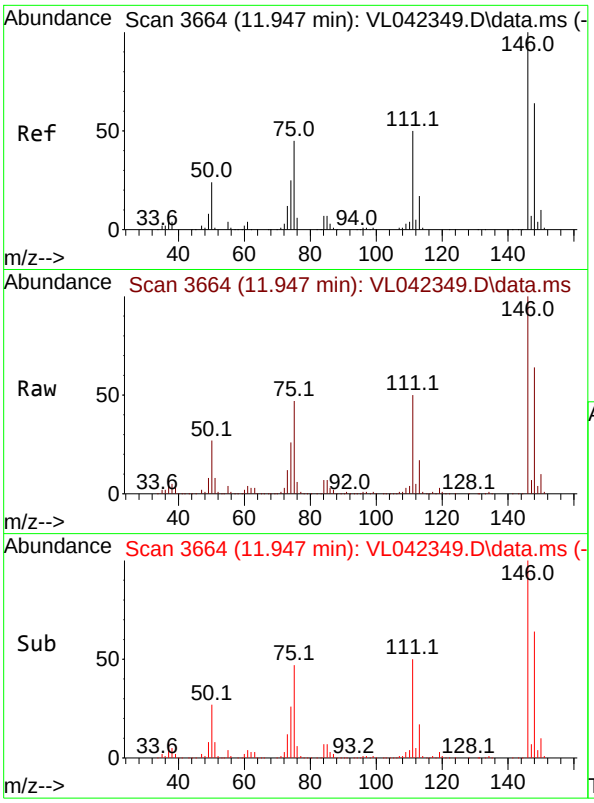




#76
1,4-Dichlorobenzene
Concen: 8.915 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:146 Resp: 319089

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 48.4 | 24.2 | 72.6 |
| 148 | 64.3 | 32.1 | 96.5 |



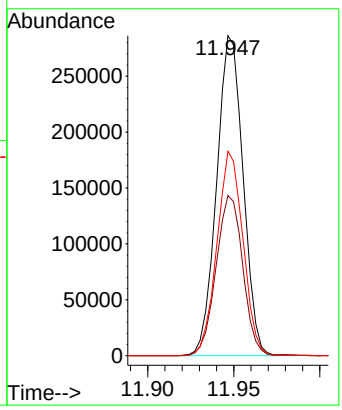


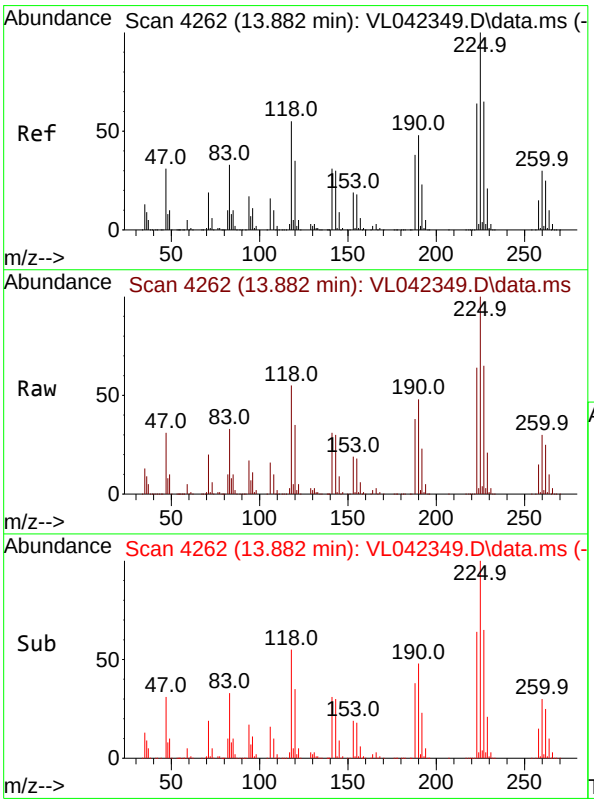

#77
1,2-Dichlorobenzene
Concen: 8.832 ppbv
RT: 11.947 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion:146 Resp: 305822

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 50.6 | 25.3 | 75.9 |
| 148 | 63.0 | 31.5 | 94.5 |

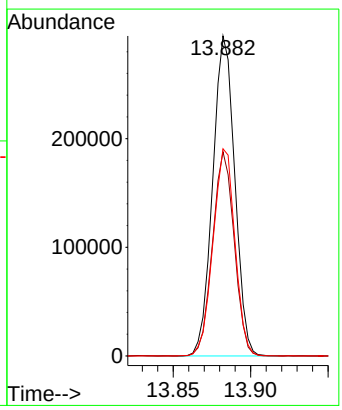


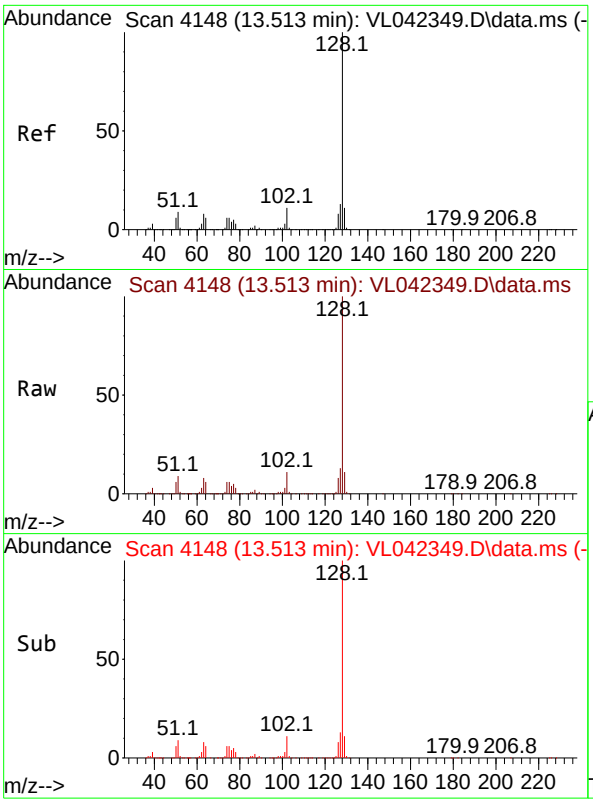




#78
Hexachloro-1,3-Butadiene
Concen: 8.346 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:225 Resp: 291833

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.9 | 50.3 | 75.5 |
| 227 | 64.4 | 51.5 | 77.3 |



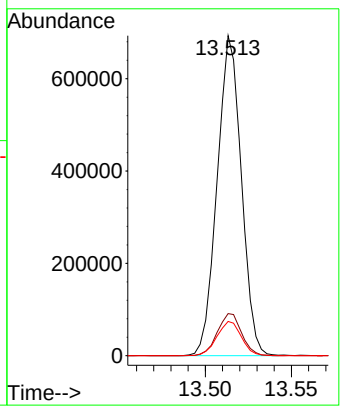


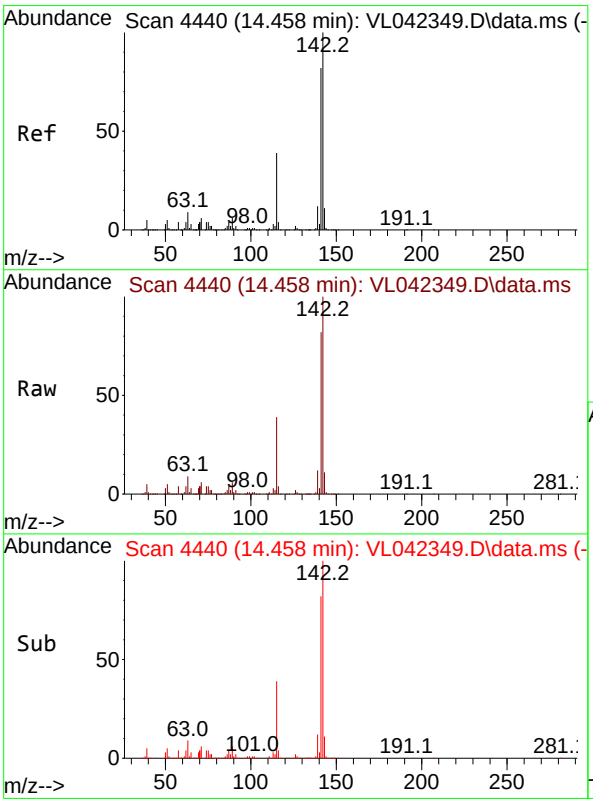

#79
Naphthalene
Concen: 8.271 ppbv
RT: 13.513 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion:128 Resp: 677578

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.2 | 10.6 | 15.8 |
| 129 | 10.7 | 8.6 | 12.8 |

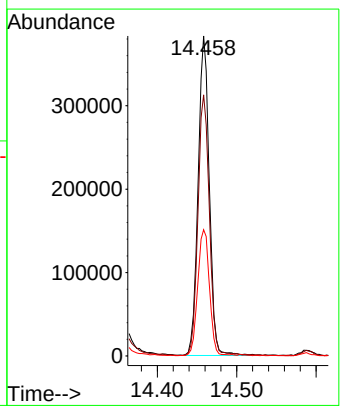


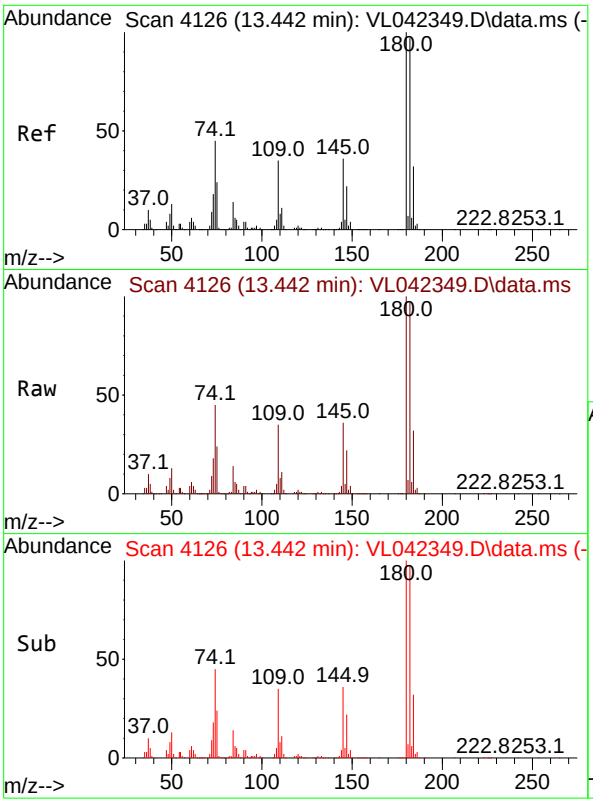




#80
Naphthalene,2-methyl-
Concen: 8.074 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:142 Resp: 376995

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 83.5 | 66.8 | 100.2 |
| 115 | 41.8 | 33.4 | 50.2 |



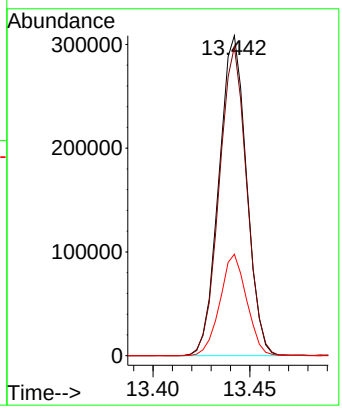



#81
1,2,4-Trichlorobenzene
Concen: 8.702 ppbv
RT: 13.442 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICCC010

Tgt Ion:180 Resp: 306119

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.0 | 76.8 | 115.2 |
| 184 | 30.7 | 24.6 | 36.8 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042350.D
Acq On : 17 Apr 2025 10:17
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Quant Time: Apr 18 01:26:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 2.787 | 49 | 123206 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.959 | 114 | 355918 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.881 | 117 | 335603 | 10.000 | ppbv | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95 | 275715 | 9.998 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 100.000% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.499 | 85 | 45008 | 2.068 | ppbv | | 95 |
| 3) Chlorodifluoromethane | 1.476 | 51 | 41853 | 2.019 | ppbv | | 97 |
| 4) Chloromethane | 1.534 | 50 | 17272 | 2.005 | ppbv | | 93 |
| 5) Vinyl Chloride | 1.580 | 62 | 16979 | 1.811 | ppbv | | 92 |
| 6) Bromomethane | 1.667 | 94 | 7398 | 1.821 | ppbv | # | 80 |
| 7) Chloroethane | 1.706 | 64 | 6889 | 2.031 | ppbv | | 98 |
| 8) Dichlorotetrafluoroethane | 1.554 | 85 | 38955 | 2.084 | ppbv | | 98 |
| 9) Propene | 1.483 | 41 | 18671 | 1.978 | ppbv | | 97 |
| 10) Heptane | 4.978 | 43 | 34658 | 1.364 | ppbv | # | 62 |
| 11) Trichlorofluoromethane | 1.877 | 101 | 43035 | 2.079 | ppbv | | 99 |
| 12) 1,1,2-Trichlorotrifluo... | 2.140 | 101 | 35415 | 2.092 | ppbv | | 100 |
| 13) Ethanol | 1.722 | 45 | 1417 | 1.837 | ppbv | | 59 |
| 14) Bromoethene | 1.780 | 108 | 13049 | 2.045 | ppbv | # | 92 |
| 15) Acetone | 1.835 | 43 | 42949 | 2.129 | ppbv | | 93 |
| 16) 1,3-Butadiene | 1.609 | 39 | 18110 | 1.912 | ppbv | | 96 |
| 17) tert-Butyl alcohol | 2.042 | 59 | 51829 | 2.074 | ppbv | # | 94 |
| 18) 1,1-Dichloroethene | 2.036 | 96 | 15690 | 1.928 | ppbv | | 87 |
| 19) Isopropyl Alcohol | 1.887 | 45 | 22106 | 1.973 | ppbv | # | 38 |
| 20) Methylene Chloride | 2.062 | 84 | 14329 | 1.814 | ppbv | # | 82 |
| 21) Allyl Chloride | 2.098 | 41 | 27340 | 1.963 | ppbv | | 95 |
| 22) trans-1,2-Dichloroethene | 2.340 | 96 | 18142 | 2.015 | ppbv | | 97 |
| 23) Vinyl Acetate | 2.463 | 43 | 18454 | 2.260 | ppbv | # | 91 |
| 24) 1,1-Dichloroethane | 2.411 | 63 | 34077 | 1.993 | ppbv | | 96 |
| 25) Ethyl Acetate | 2.835 | 43 | 101467 | 2.040 | ppbv | | 99 |
| 26) Hexane | 2.826 | 57 | 40046 | 1.990 | ppbv | | 99 |
| 27) Carbon Disulfide | 2.149 | 76 | 43975 | 2.041 | ppbv | # | 64 |
| 28) Methyl tert-Butyl Ether | 2.441 | 73 | 27905 | 2.116 | ppbv | | 97 |
| 29) Chloroform | 2.848 | 83 | 58946 | 2.072 | ppbv | | 100 |
| 30) Cyclohexane | 3.858 | 84 | 33195 | 2.048 | ppbv | | 94 |
| 31) cis-1,2-Dichloroethene | 2.722 | 61 | 39249 | 2.051 | ppbv | | 98 |
| 32) 1,1,1-Trichloroethane | 3.366 | 97 | 61442 | 2.014 | ppbv | | 99 |
| 34) 2-Butanone | 2.560 | 43 | 58249 | 2.069 | ppbv | | 100 |
| 35) Carbon Tetrachloride | 3.761 | 117 | 60291 | 1.872 | ppbv | | 88 |
| 36) Benzene | 3.658 | 78 | 79814 | 2.079 | ppbv | | 98 |
| 37) 1,2-Dichloroethane | 3.217 | 62 | 47398 | 2.057 | ppbv | | 100 |
| 38) Trichloroethene | 4.544 | 130 | 16602 | 0.986 | ppbv | | 94 |
| 39) 1,2-Dichloropropane | 4.315 | 63 | 28806 | 2.012 | ppbv | | 96 |
| 40) 1,4-Dioxane | 4.593 | 88 | 16026 | 2.067 | ppbv | # | 81 |
| 41) Tetrahydrofuran | 3.059 | 42 | 33298 | 2.047 | ppbv | | 98 |
| 42) Bromodichloromethane | 4.489 | 83 | 64941 | 2.025 | ppbv | | 97 |
| 43) Methyl Methacrylate | 4.881 | 69 | 35256 | 2.046 | ppbv | | 97 |
| 44) 2,2,4-Trimethylpentane | 4.645 | 57 | 139641 | 2.103 | ppbv | | 99 |
| 45) t-1,3-Dichloropropene | 6.415 | 75 | 36265 | 2.050 | ppbv | | 94 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042350.D
Acq On : 17 Apr 2025 10:17
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Quant Time: Apr 18 01:26:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

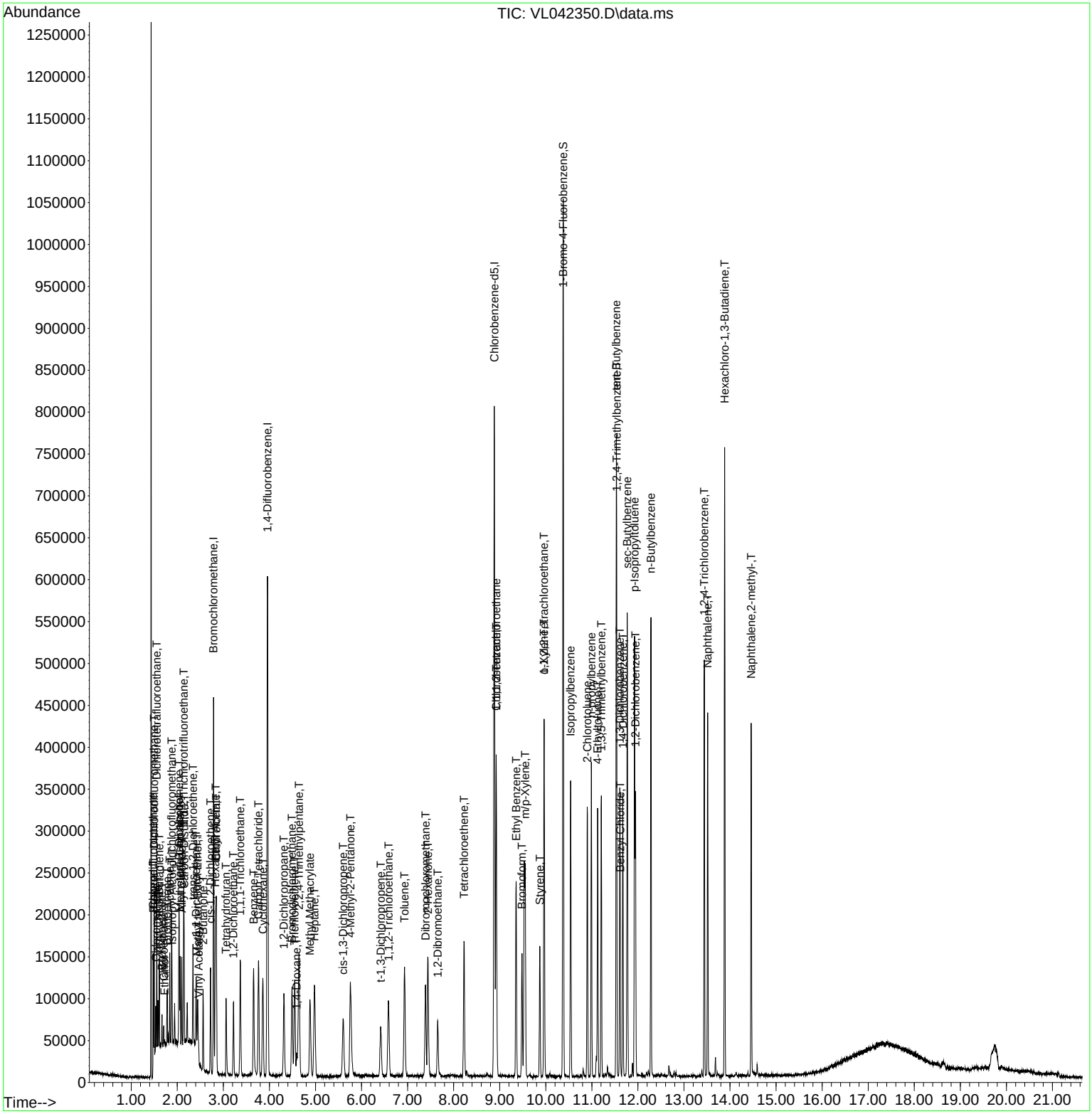
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.600 | 75 | 25569 | 1.183 | ppbv | | 90 |
| 47) 1,1,2-Trichloroethane | 6.590 | 97 | 29879 | 2.049 | ppbv | | 88 |
| 48) Dibromochloromethane | 7.389 | 129 | 53069 | 2.061 | ppbv | | 100 |
| 49) Bromoform | 9.483 | 173 | 48069 | 2.135 | ppbv | | 97 |
| 50) 4-Methyl-2-Pentanone | 5.758 | 43 | 102182 | 2.180 | ppbv | | 99 |
| 51) 2-Hexanone | 7.441 | 43 | 100443 | 2.375 | ppbv | | 98 |
| 52) Tetrachloroethene | 8.228 | 164 | 27854 | 1.877 | ppbv | | 96 |
| 53) Toluene | 6.933 | 91 | 97493 | 2.116 | ppbv | | 98 |
| 54) 1,2-Dibromoethane | 7.655 | 107 | 43153 | 2.076 | ppbv | | 87 |
| 56) 1,1,1,2-Tetrachloroethane | 8.924 | 131 | 42601 | 2.097 | ppbv | | 95 |
| 57) Chlorobenzene | 8.924 | 112 | 71685 | 2.054 | ppbv | | 98 |
| 58) Ethyl Benzene | 9.357 | 91 | 138810 | 2.088 | ppbv | | 98 |
| 59) m/p-Xylene | 9.551 | 91 | 103886 | 1.934 | ppbv | # | 32 |
| 60) o-Xylene | 9.963 | 91 | 111972 | 2.076 | ppbv | | 98 |
| 61) Styrene | 9.872 | 104 | 54229 | 2.106 | ppbv | | 98 |
| 62) Isopropylbenzene | 10.539 | 105 | 163716 | 2.067 | ppbv | | 100 |
| 63) 1,1,2,2-Tetrachloroethane | 9.963 | 83 | 64952 | 1.853 | ppbv | | 99 |
| 64) n-propylbenzene | 10.989 | 120 | 40956 | 2.058 | ppbv | | 96 |
| 65) tert-Butylbenzene | 11.532 | 119 | 155401 | 2.135 | ppbv | | 92 |
| 66) Benzyl Chloride | 11.616 | 91 | 17300 | 2.163 | ppbv | | 98 |
| 67) sec-Butylbenzene | 11.769 | 105 | 218327 | 2.156 | ppbv | | 100 |
| 69) p-Isopropyltoluene | 11.927 | 119 | 188657 | 2.145 | ppbv | | 99 |
| 70) n-Butylbenzene | 12.283 | 91 | 198221 | 2.164 | ppbv | | 99 |
| 71) 2-Chlorotoluene | 10.901 | 91 | 128858 | 2.075 | ppbv | | 98 |
| 72) 4-Ethyltoluene | 11.124 | 105 | 137872 | 2.091 | ppbv | | 97 |
| 73) 1,3,5-Trimethylbenzene | 11.205 | 105 | 123580 | 2.123 | ppbv | | 98 |
| 74) 1,2,4-Trimethylbenzene | 11.539 | 105 | 145510 | 2.140 | ppbv | | 92 |
| 75) 1,3-Dichlorobenzene | 11.607 | 146 | 75082 | 2.124 | ppbv | | 98 |
| 76) 1,4-Dichlorobenzene | 11.671 | 146 | 75323 | 2.120 | ppbv | | 99 |
| 77) 1,2-Dichlorobenzene | 11.947 | 146 | 74786 | 2.176 | ppbv | | 98 |
| 78) Hexachloro-1,3-Butadiene | 13.882 | 225 | 76158 | 2.194 | ppbv | | 100 |
| 79) Naphthalene | 13.513 | 128 | 195233 | 2.401 | ppbv | | 99 |
| 80) Naphthalene,2-methyl- | 14.458 | 142 | 119262 | 2.574 | ppbv | | 99 |
| 81) 1,2,4-Trichlorobenzene | 13.442 | 180 | 82156 | 2.353 | ppbv | | 99 |

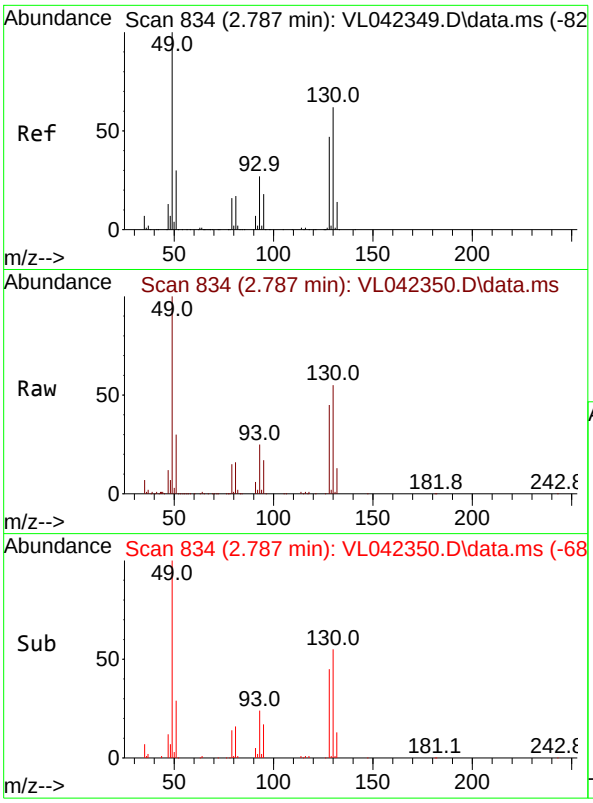
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042350.D
Acq On : 17 Apr 2025 10:17
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Quant Time: Apr 18 01:26:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration



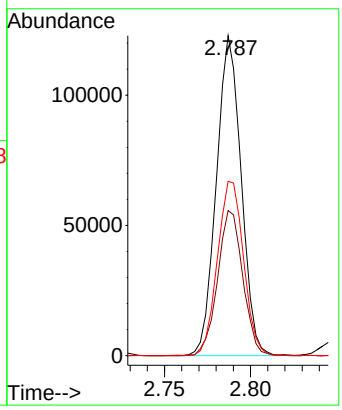


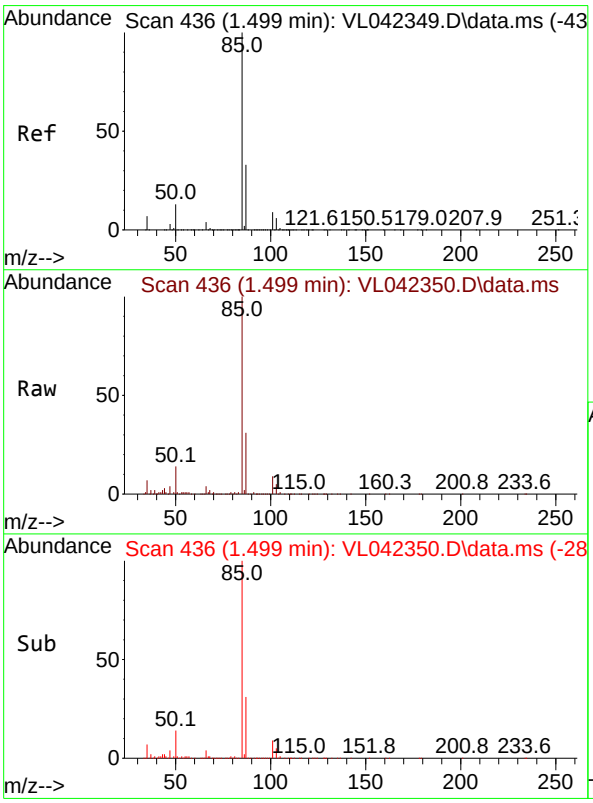

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion: 49 Resp: 123206

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 46.2 | 22.8 | 68.4 |
| 130 | 57.3 | 29.3 | 88.0 |

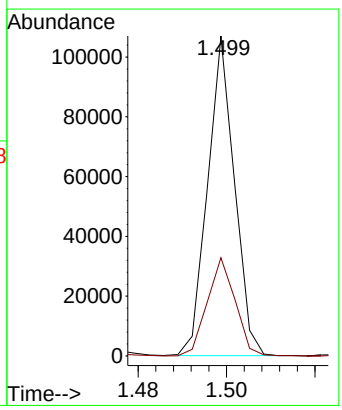


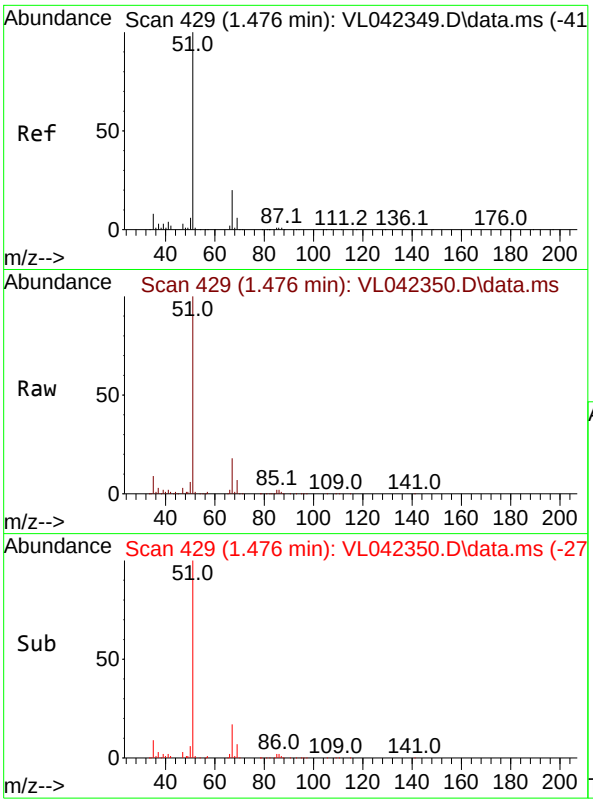




#2
Dichlorodifluoromethane
Concen: 2.068 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 85 Resp: 45008

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 30.6 | 26.6 | 39.8 |



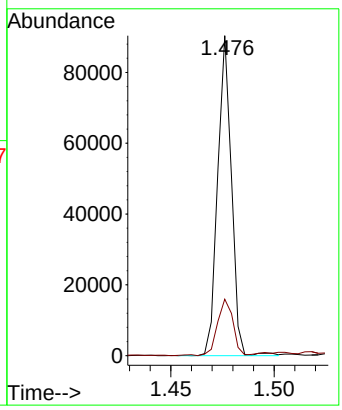


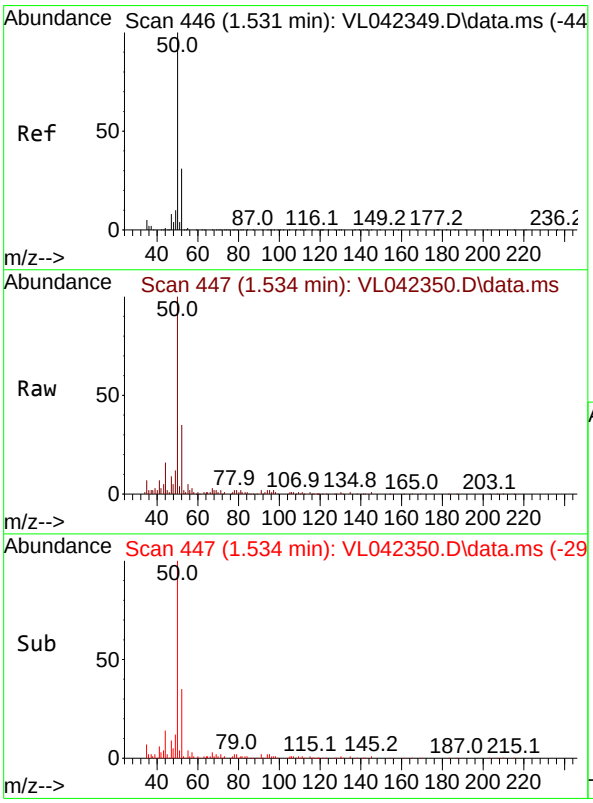

#3
Chlorodifluoromethane
Concen: 2.019 ppbv
RT: 1.476 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion: 51 Resp: 41853

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 21.7 | 16.2 | 24.4 |

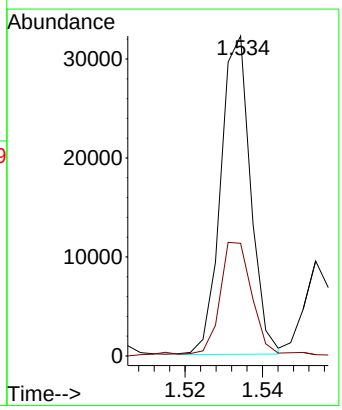


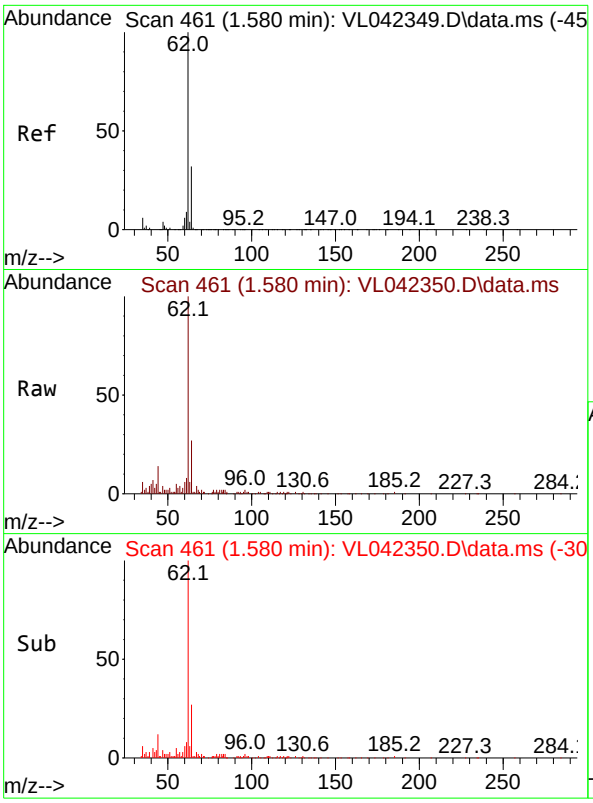




#4
Chloromethane
Concen: 2.005 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 50 Resp: 17272

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 34.9 | 24.7 | 37.1 |



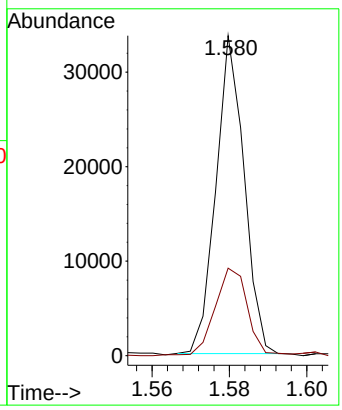


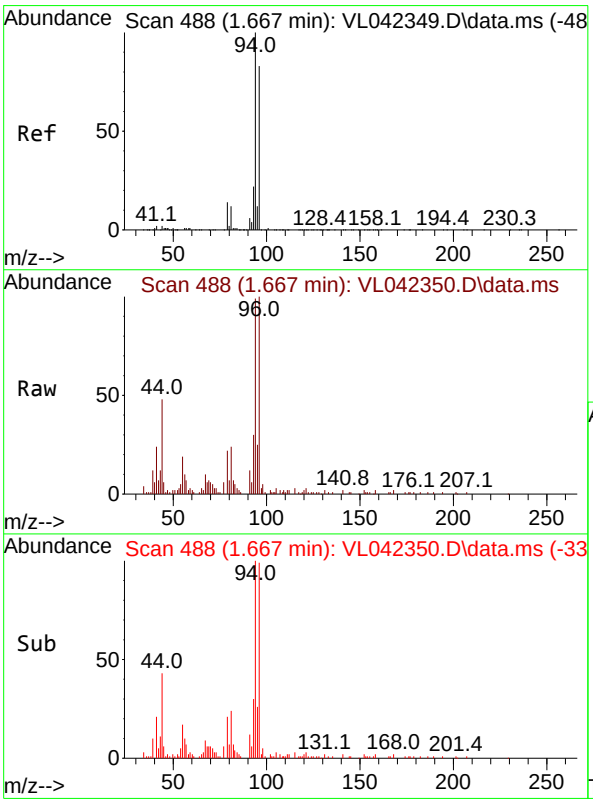

#5
Vinyl Chloride
Concen: 1.811 ppbv
RT: 1.580 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion: 62 Resp: 16979

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 27.2 | 25.4 | 38.0 |

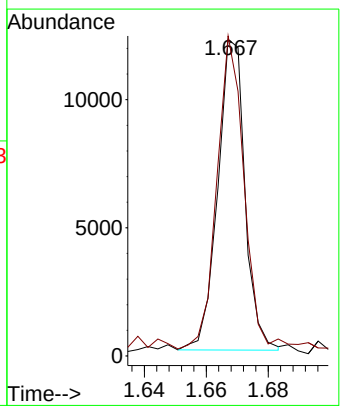


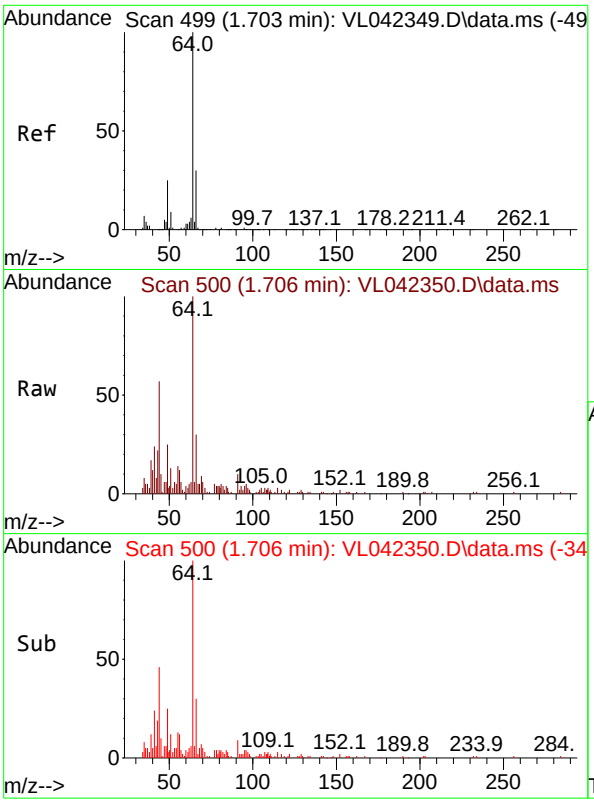




#6
Bromomethane
Concen: 1.821 ppbv
RT: 1.667 min Scan# 488
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 94 Resp: 7398

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 100.8 | 66.2 | 99.2# |



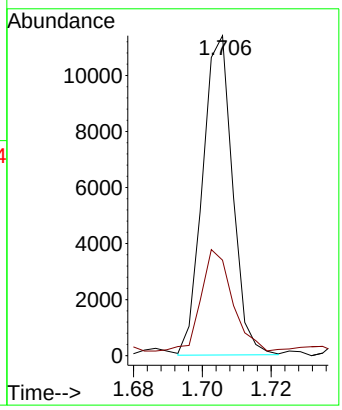


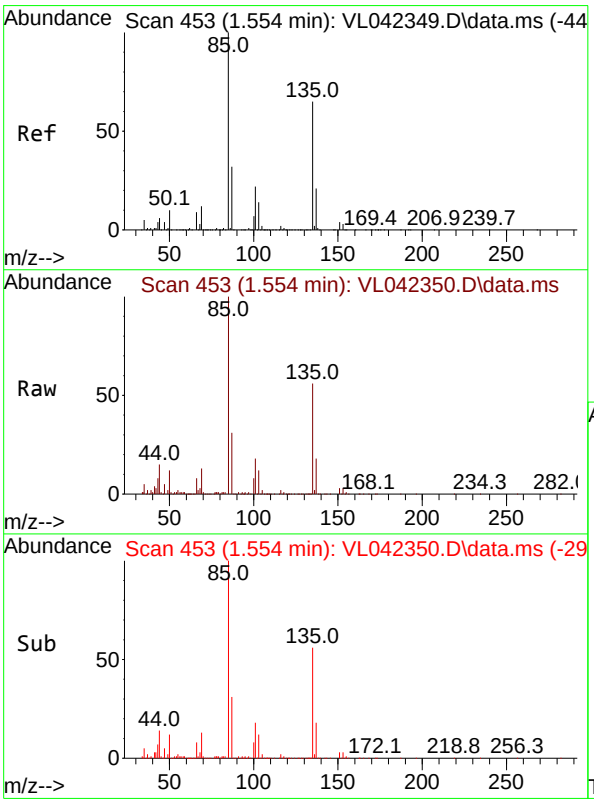

#7
Chloroethane
Concen: 2.031 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion: 64 Resp: 6889

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 29.8 | 24.6 | 37.0 |

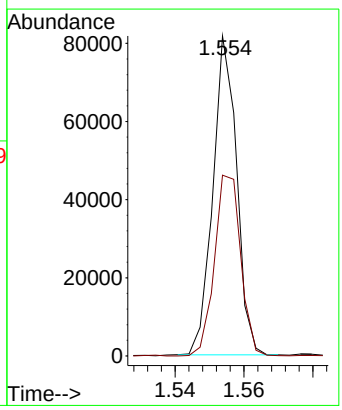


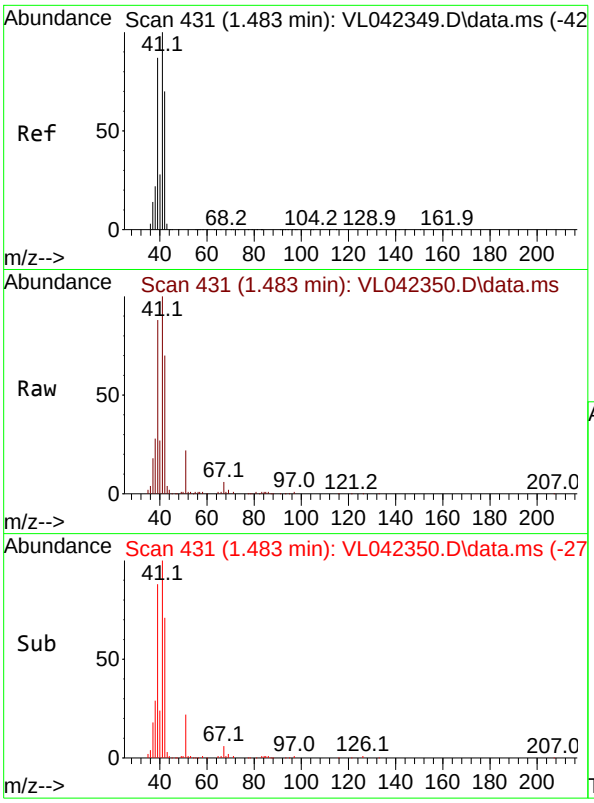




#8
Dichlorotetrafluoroethane
Concen: 2.084 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 85 Resp: 38955

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 63.3 | 52.2 | 78.2 |



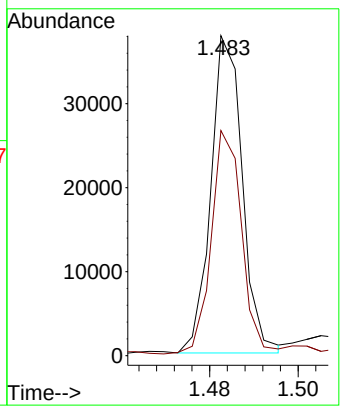


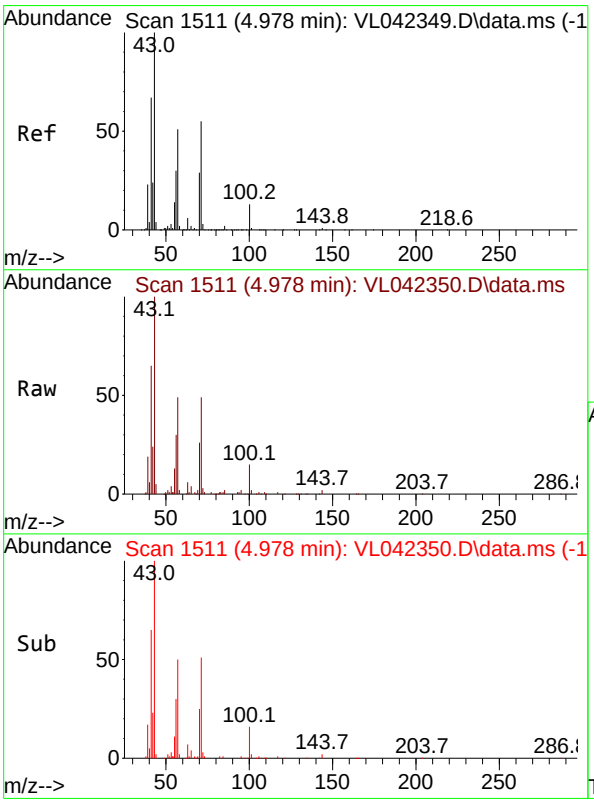

#9
Propene
Concen: 1.978 ppbv
RT: 1.483 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion: 41 Resp: 18671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 72.7 | 56.2 | 84.4 |

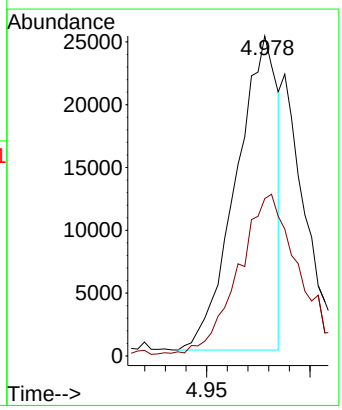


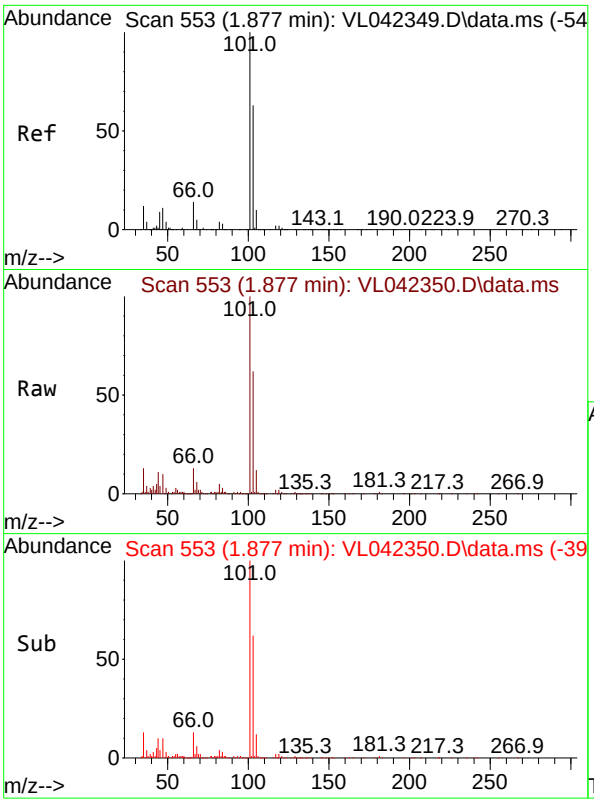




#10
Heptane
Concen: 1.364 ppbv
RT: 4.978 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 43 Resp: 34658

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 75.9 | 39.9 | 59.9# |



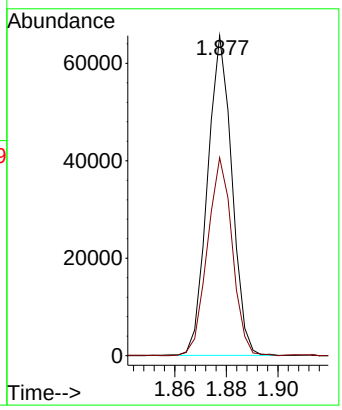


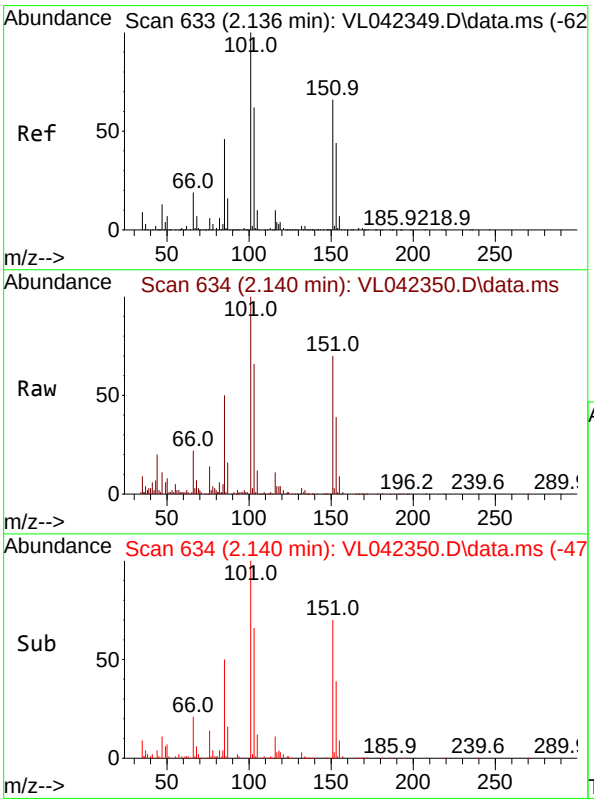

#11
Trichlorofluoromethane
Concen: 2.079 ppbv
RT: 1.877 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion:101 Resp: 43035

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 61.9 | 50.1 | 75.1 |

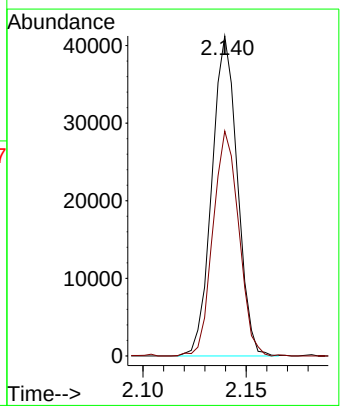


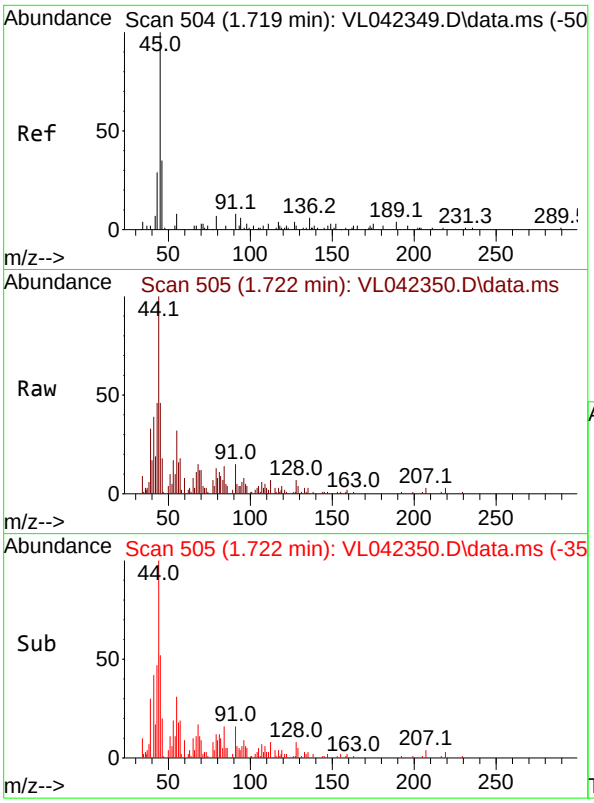




#12
1,1,2-Trichlorotrifluoroethane
Concen: 2.092 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:101 Resp: 35415

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 71.5 | 57.0 | 85.6 |



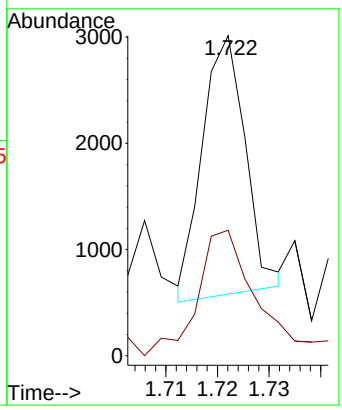


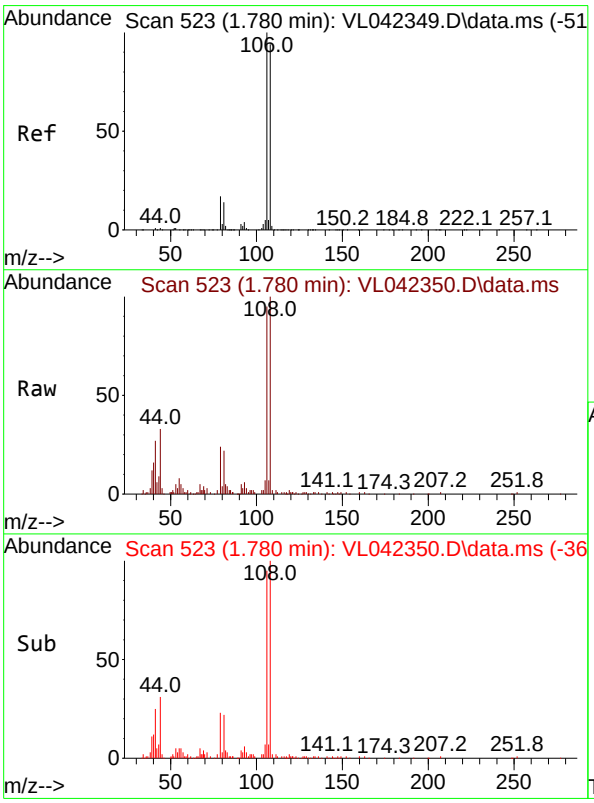

#13
Ethanol
Concen: 1.837 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion: 45 Resp: 1417

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 84.1 | 21.9 | 87.7 |

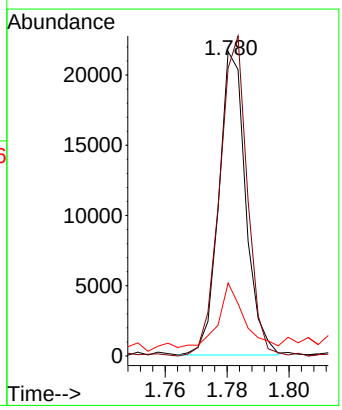


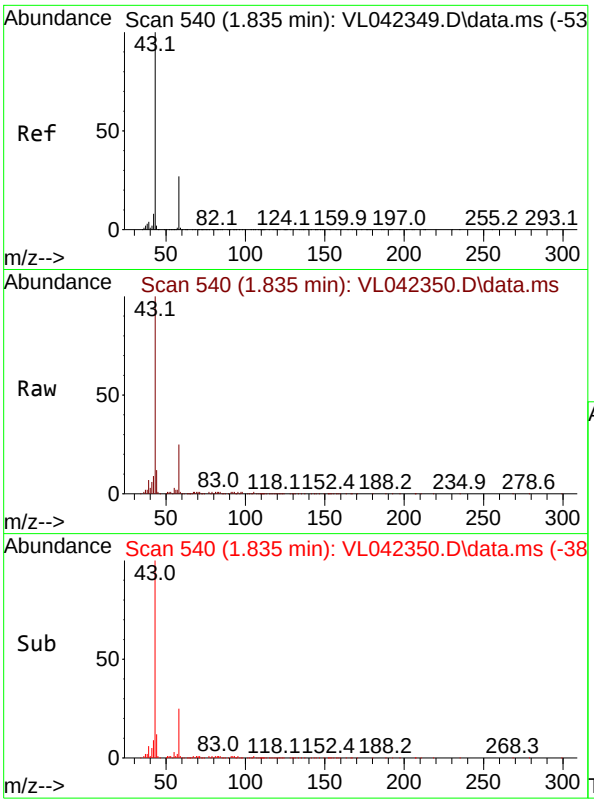




#14
Bromoethene
Concen: 2.045 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:108 Resp: 13049

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 106 | 110.2 | 85.9 | 128.9 |
| 79 | 34.0 | 13.9 | 20.9# |



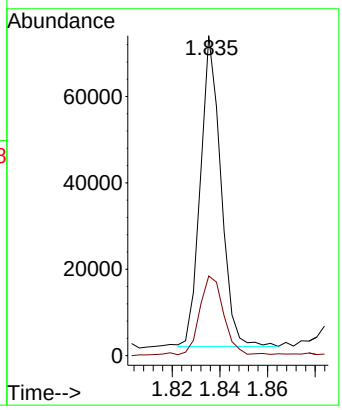


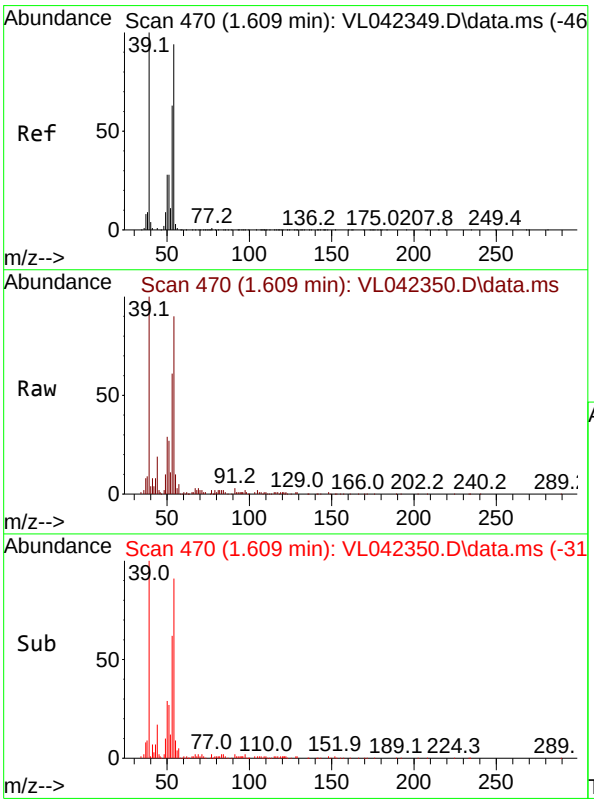

#15
Acetone
Concen: 2.129 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion: 43 Resp: 42949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 31.4 | 22.4 | 33.6 |

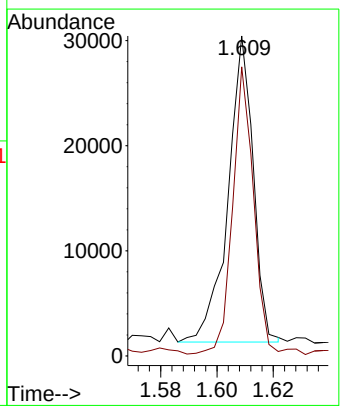


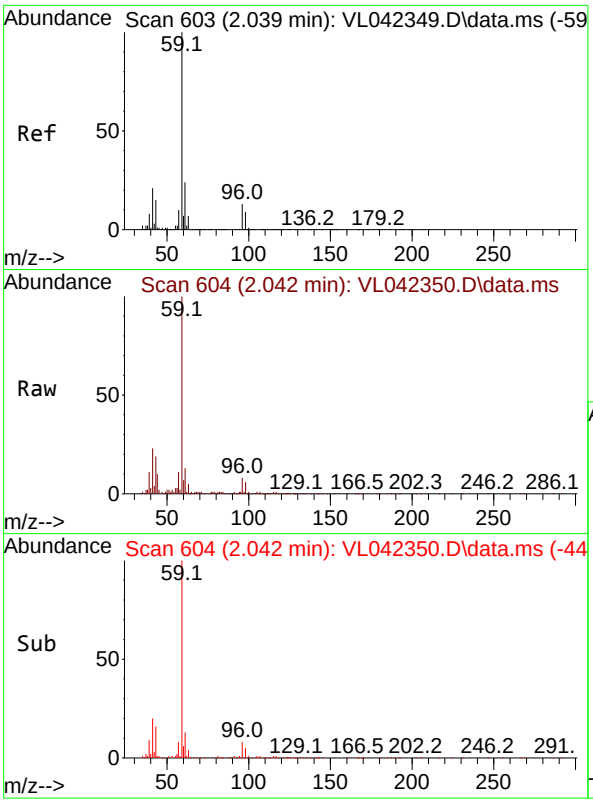




#16
1,3-Butadiene
Concen: 1.912 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 39 Resp: 18110

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 77.2 | 64.9 | 97.3 |



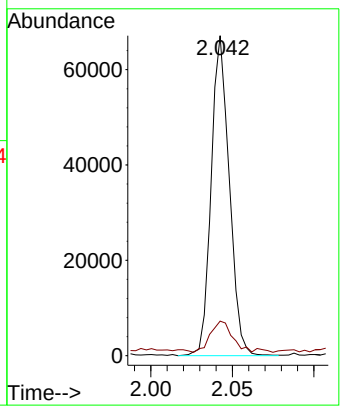


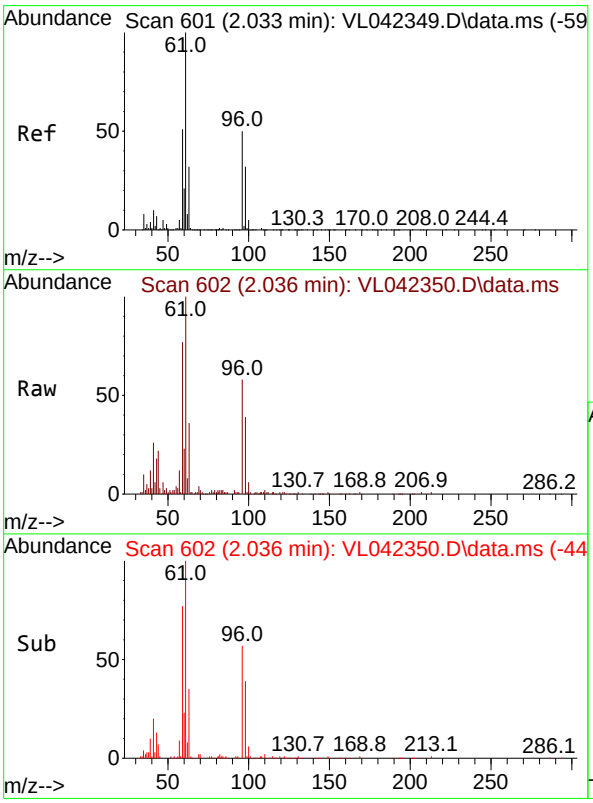

#17
tert-Butyl alcohol
Concen: 2.074 ppbv
RT: 2.042 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion: 59 Resp: 51829

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 13.2 | 8.7 | 13.1# |

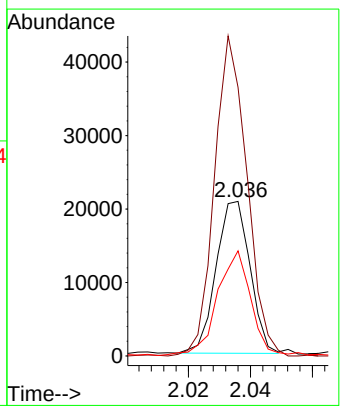


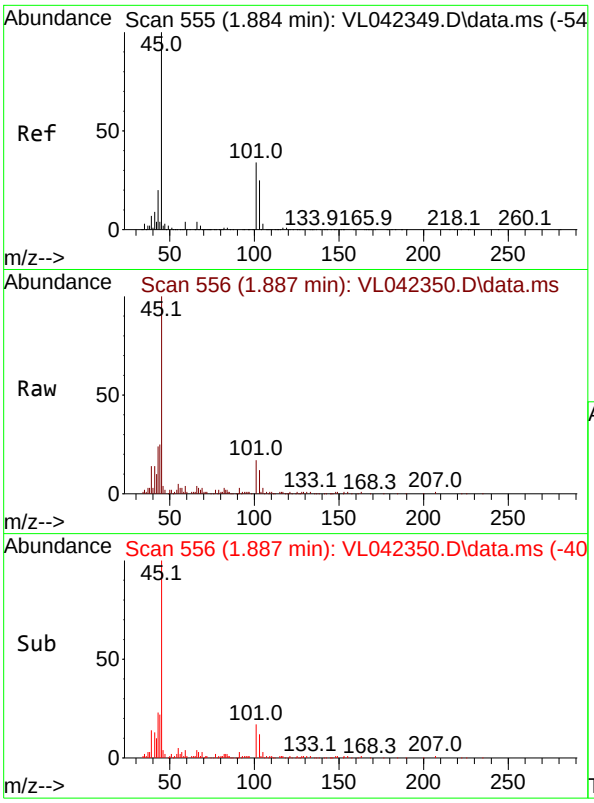




#18
1,1-Dichloroethene
Concen: 1.928 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 96 Resp: 15690

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 176.1 | 160.2 | 240.2 |
| 98 | 67.2 | 51.0 | 76.4 |



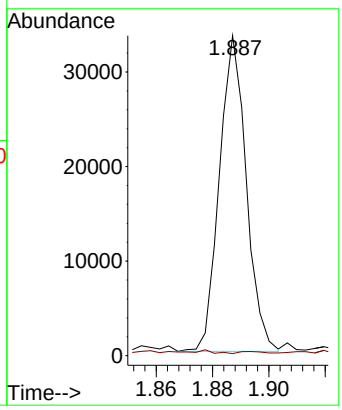


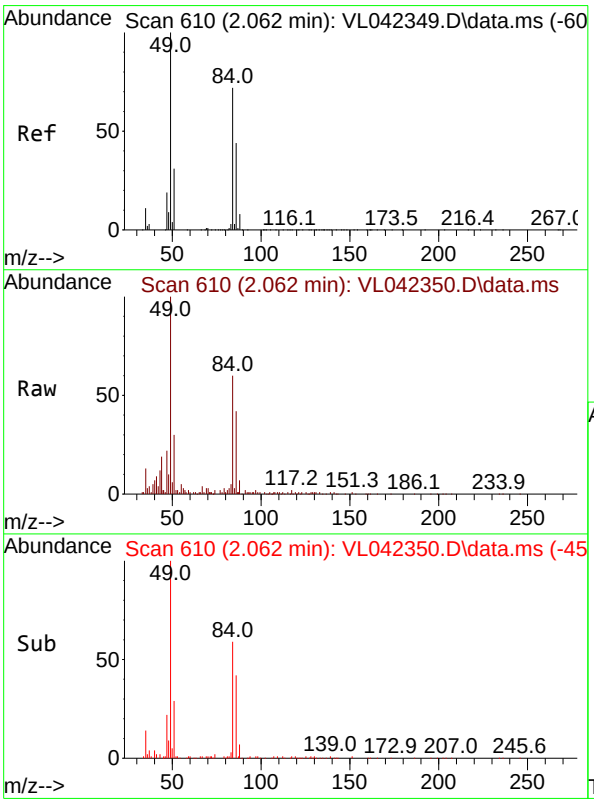

#19
Isopropyl Alcohol
Concen: 1.973 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion: 45 Resp: 22106

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 3.6 | 34.5 | 51.7# |

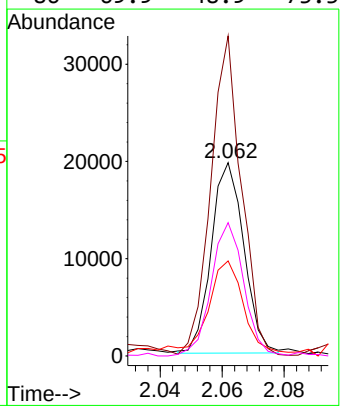


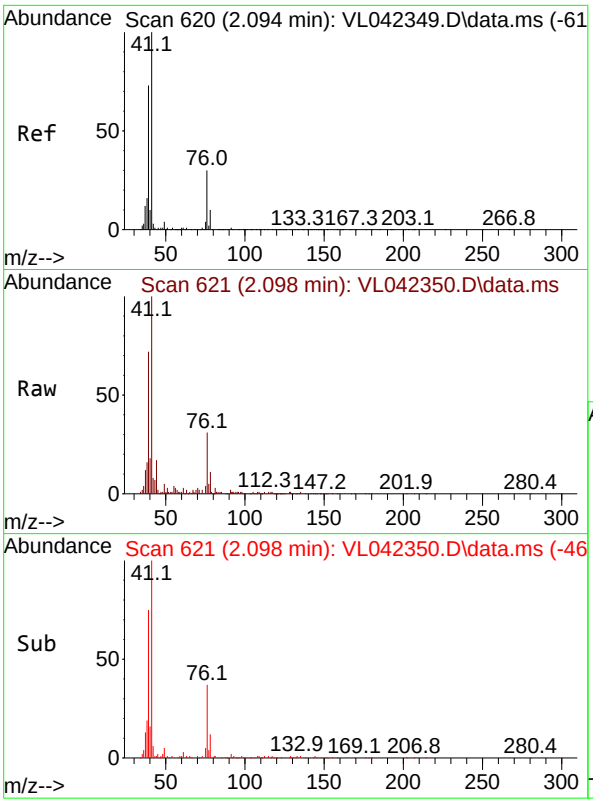




#20
Methylene Chloride
Concen: 1.814 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 84 Resp: 14329

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 169.1 | 111.6 | 167.4# |
| 51 | 47.9 | 35.1 | 52.7 |
| 86 | 69.9 | 48.9 | 73.3 |



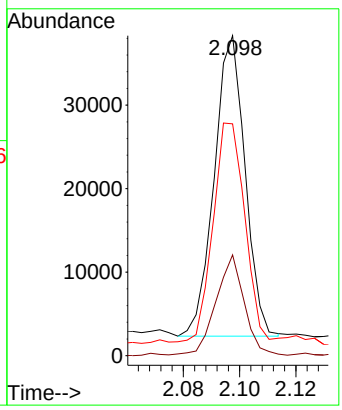


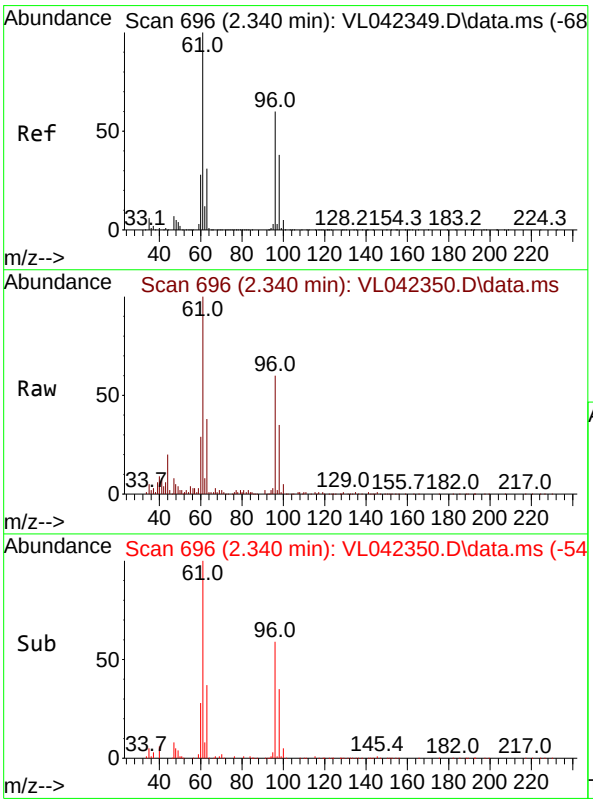

#21
Allyl Chloride
Concen: 1.963 ppbv
RT: 2.098 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion: 41 Resp: 27340

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 31.9 | 24.8 | 37.2 |
| 39 | 81.2 | 60.6 | 90.8 |

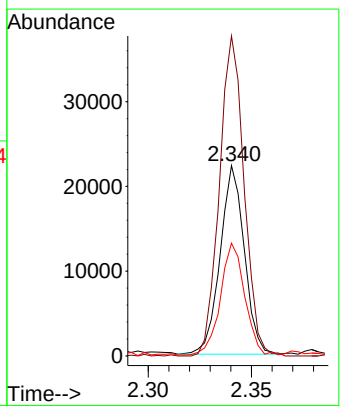


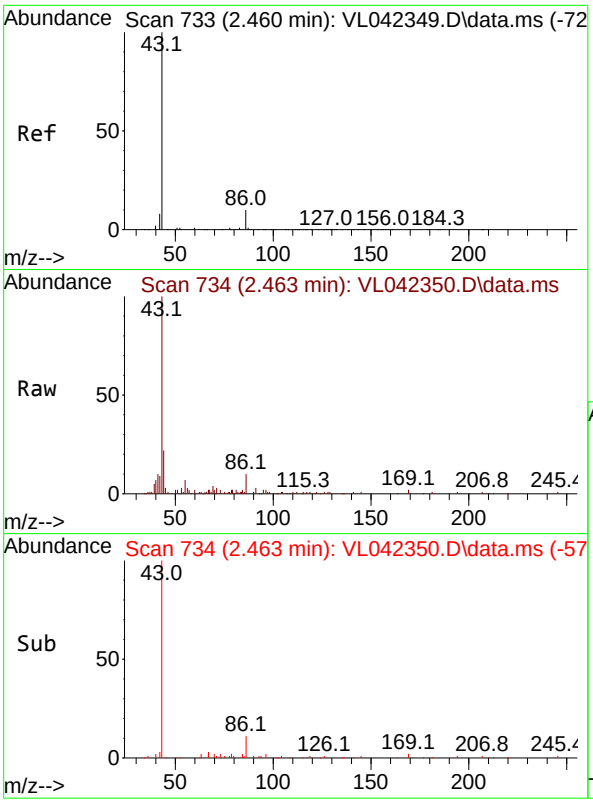




#22
trans-1,2-Dichloroethene
Concen: 2.015 ppbv
RT: 2.340 min Scan# 696
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 96 Resp: 18142

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 169.6 | 133.7 | 200.5 |
| 98 | 59.3 | 50.3 | 75.5 |



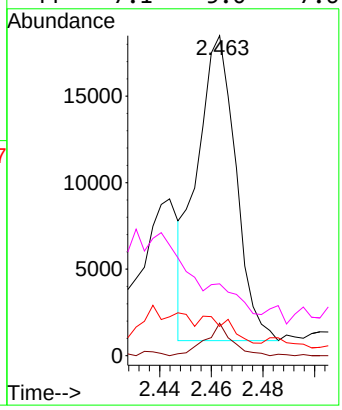


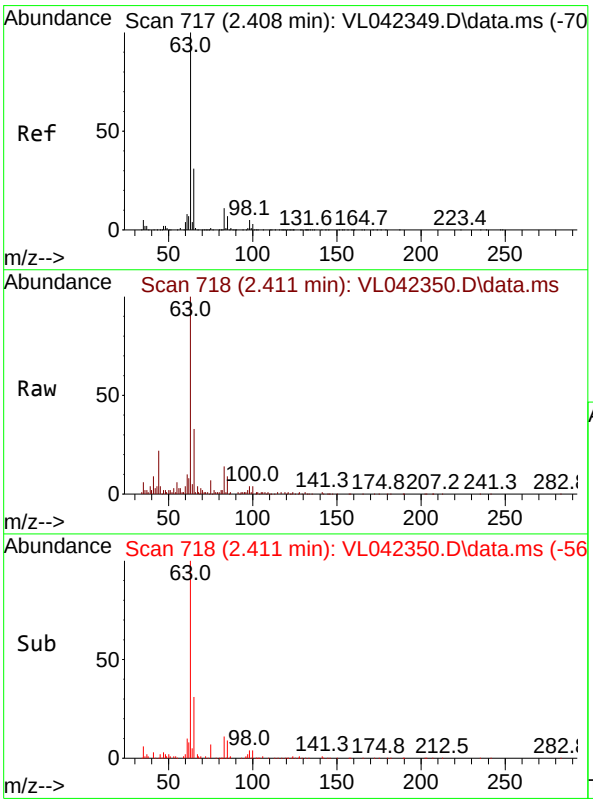

#23
Vinyl Acetate
Concen: 2.260 ppbv
RT: 2.463 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion: 43 Resp: 18454

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.2 | 6.5 | 9.7# |
| 42 | 3.7 | 7.8 | 11.8# |
| 44 | 7.1 | 5.0 | 7.6 |

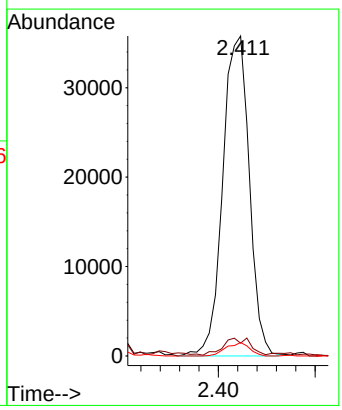


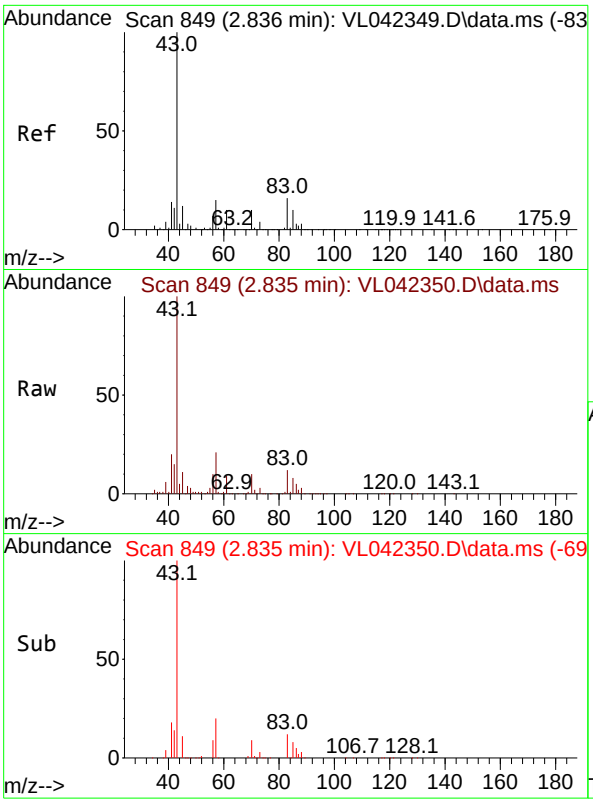




#24
1,1-Dichloroethane
Concen: 1.993 ppbv
RT: 2.411 min Scan# 718
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 63 Resp: 34077

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 3.1 | 2.3 | 6.8 |
| 100 | 4.2 | 1.6 | 4.8 |



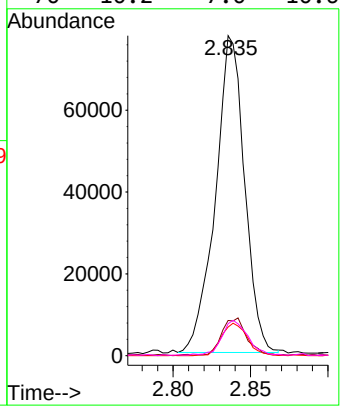


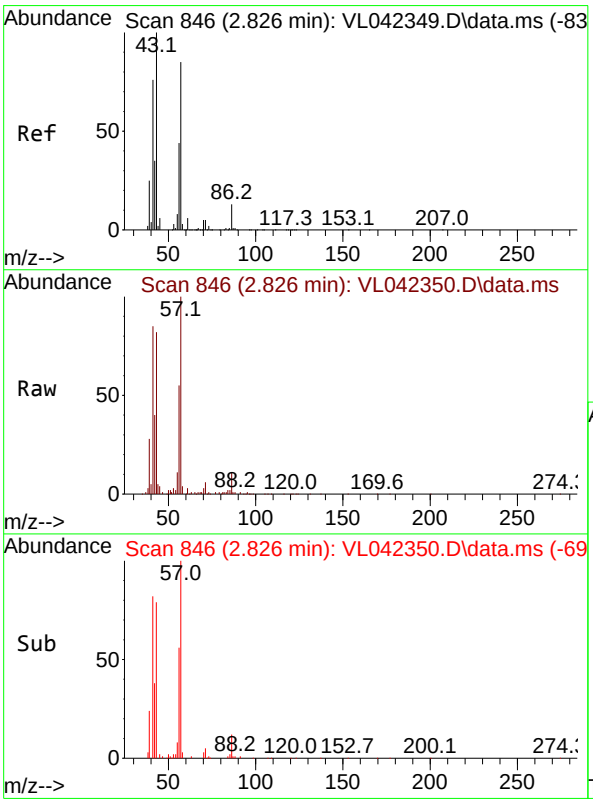

#25
Ethyl Acetate
Concen: 2.040 ppbv
RT: 2.835 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion: 43 Resp: 101467

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 10.4 | 8.3 | 12.5 |
| 61 | 9.2 | 7.3 | 10.9 |
| 70 | 10.2 | 7.0 | 10.6 |

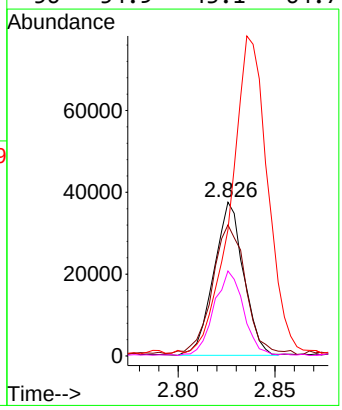


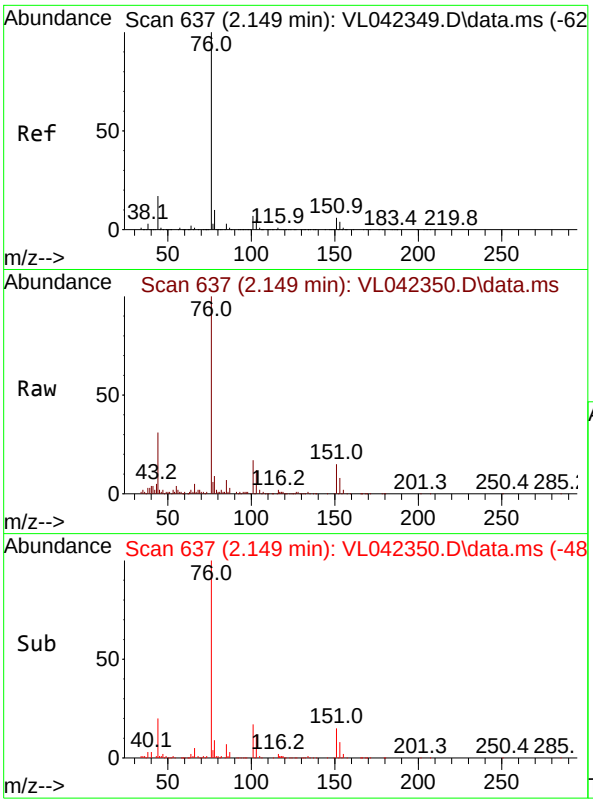




#26
Hexane
Concen: 1.990 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 57 Resp: 40046

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 94.1 | 77.9 | 116.9 |
| 43 | 260.7 | 208.4 | 312.6 |
| 56 | 54.9 | 43.1 | 64.7 |



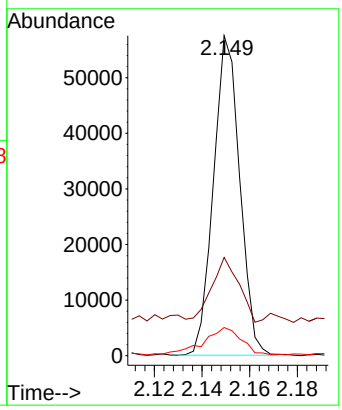


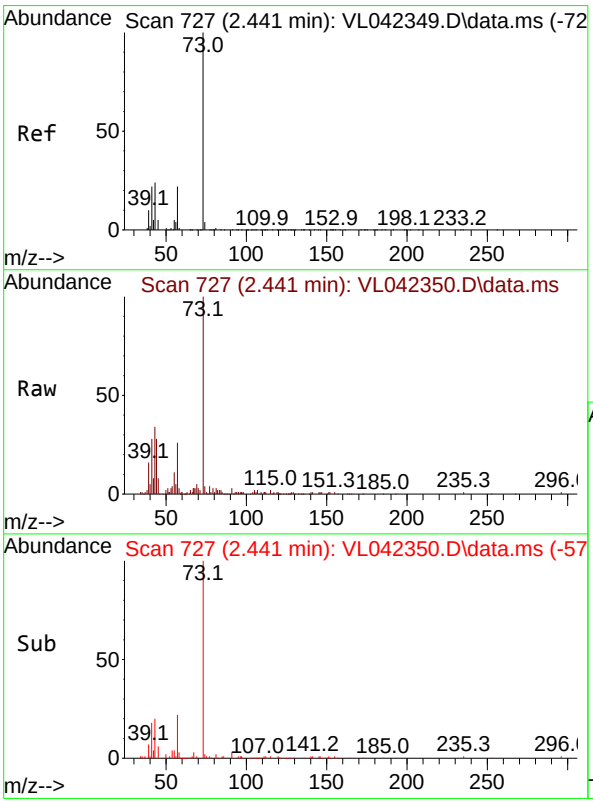

#27
Carbon Disulfide
Concen: 2.041 ppbv
RT: 2.149 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion: 76 Resp: 43975

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 44.3 | 15.5 | 23.3# |
| 78 | 13.6 | 9.3 | 13.9 |

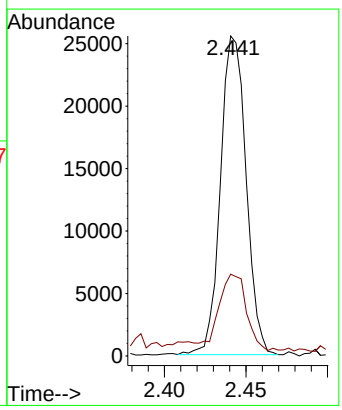


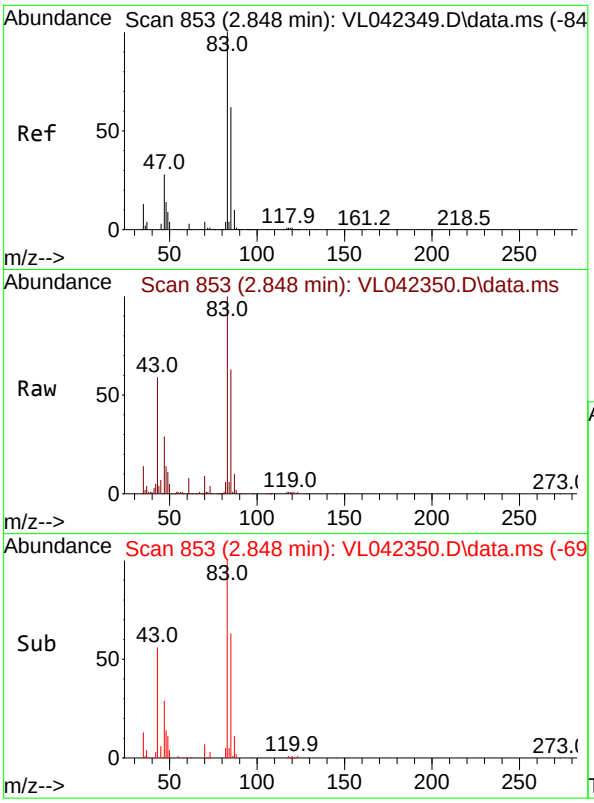




#28
Methyl tert-Butyl Ether
Concen: 2.116 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 73 Resp: 27905

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 28.1 | 21.3 | 31.9 |



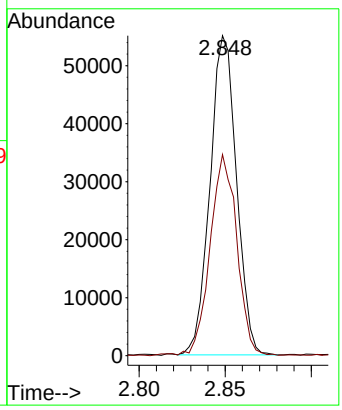


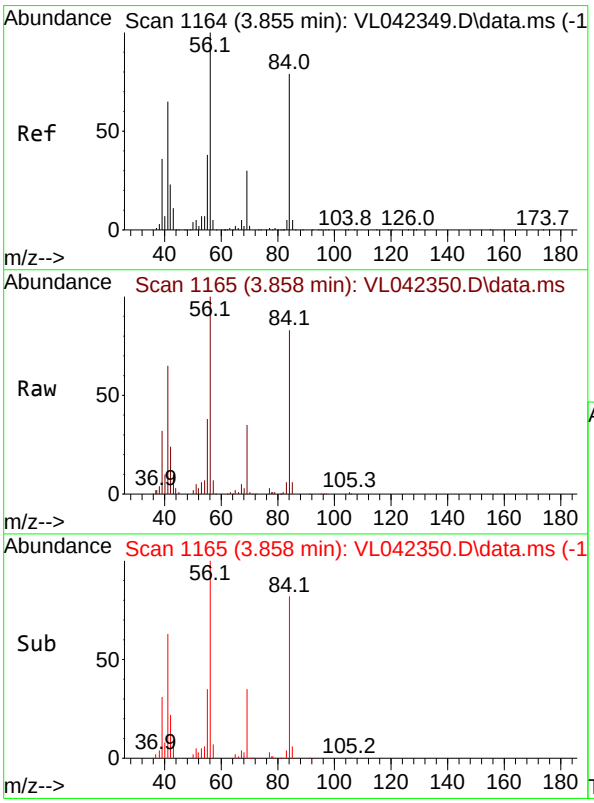

#29
Chloroform
Concen: 2.072 ppbv
RT: 2.848 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion: 83 Resp: 58946

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.9 | 50.0 | 75.0 |

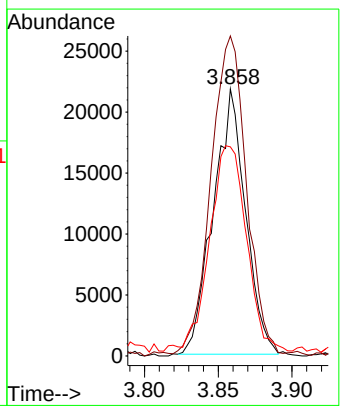


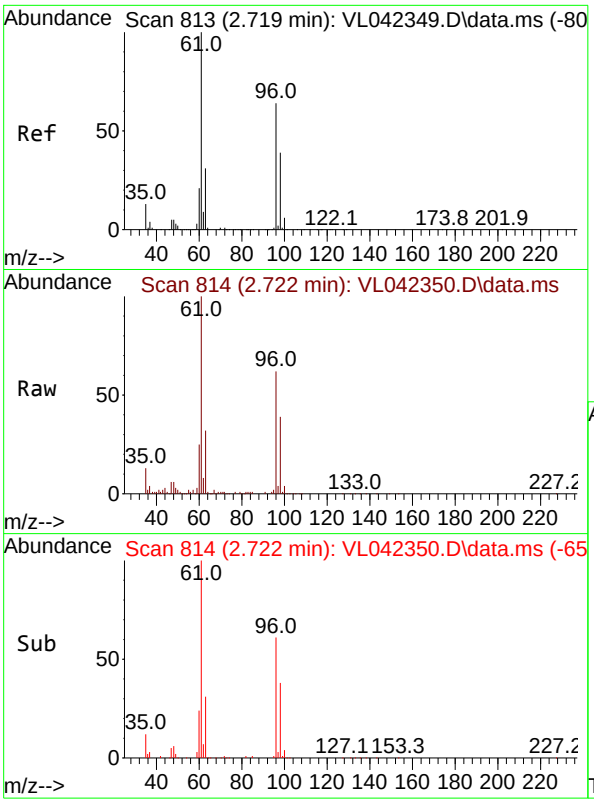




#30
Cyclohexane
Concen: 2.048 ppbv
RT: 3.858 min Scan# 1165
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 84 Resp: 33195

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 134.5 | 101.0 | 151.4 |
| 41 | 88.1 | 67.4 | 101.0 |



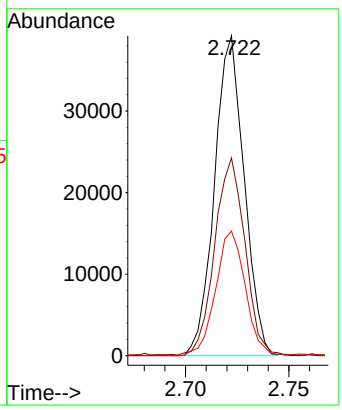


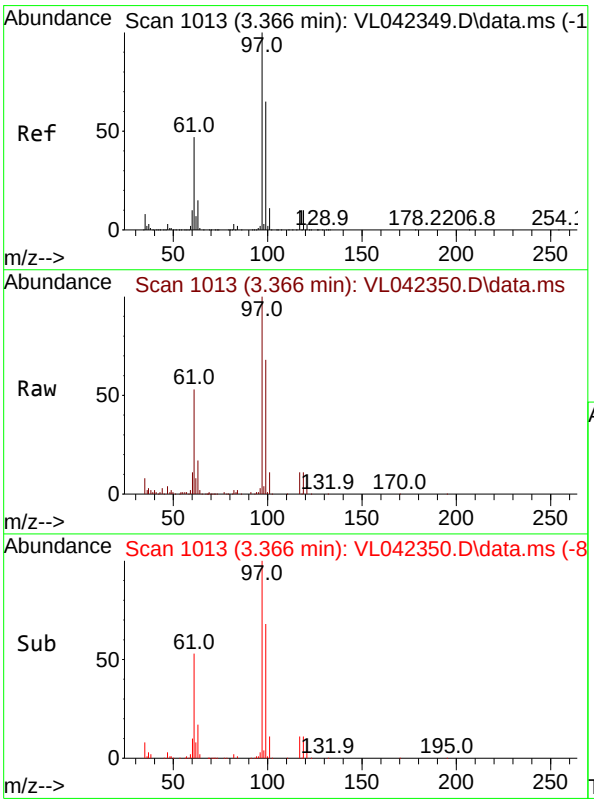

#31
cis-1,2-Dichloroethene
Concen: 2.051 ppbv
RT: 2.722 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion: 61 Resp: 39249

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 61.6 | 50.8 | 76.2 |
| 98 | 39.0 | 30.9 | 46.3 |

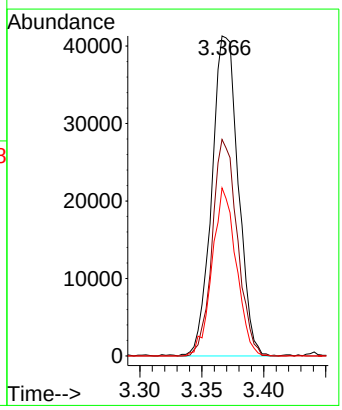


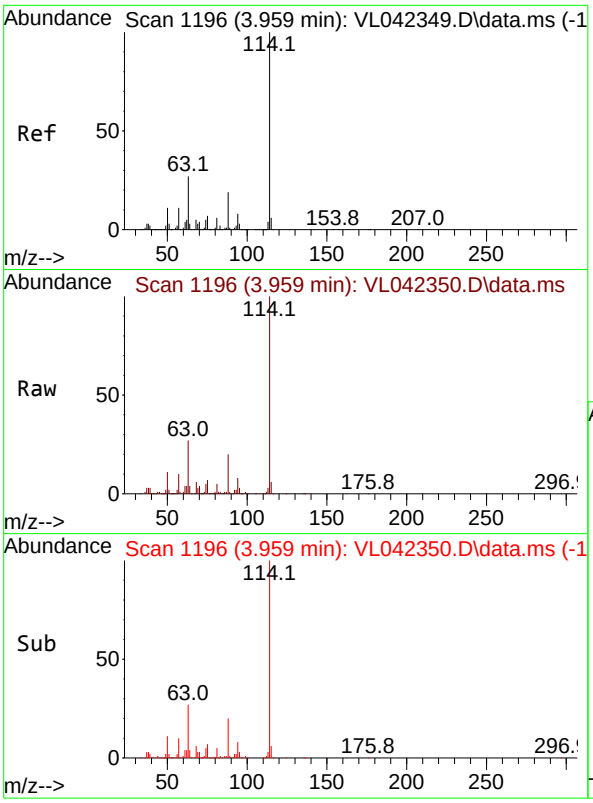




#32
1,1,1-Trichloroethane
Concen: 2.014 ppbv
RT: 3.366 min Scan# 1013
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 97 Resp: 61442

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.0 | 51.0 | 76.4 |
| 61 | 48.0 | 38.8 | 58.2 |



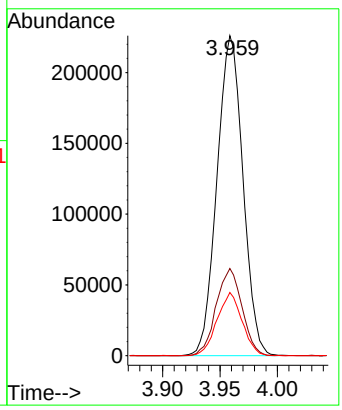


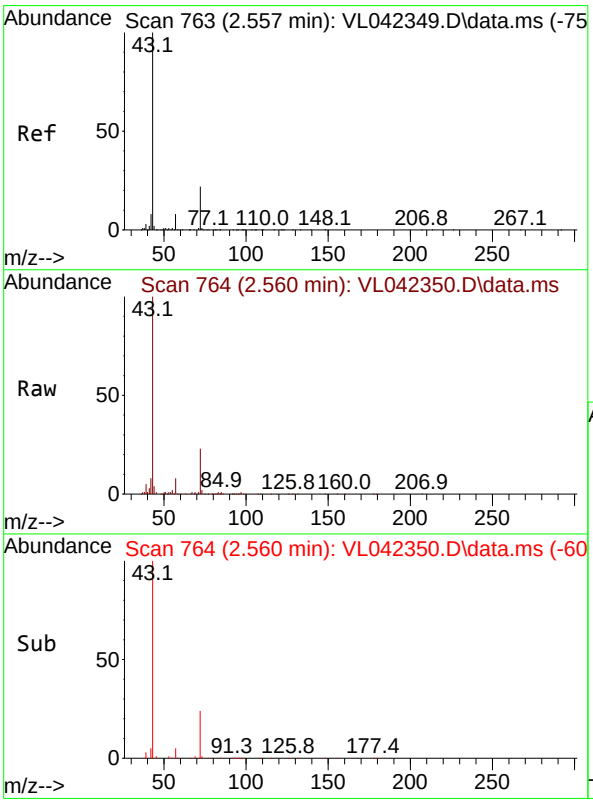

#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion:114 Resp: 355918

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 27.1 | 21.8 | 32.6 |
| 88 | 19.0 | 15.5 | 23.3 |

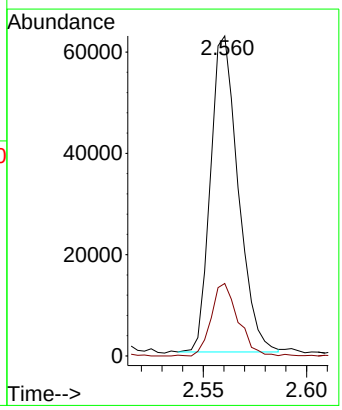


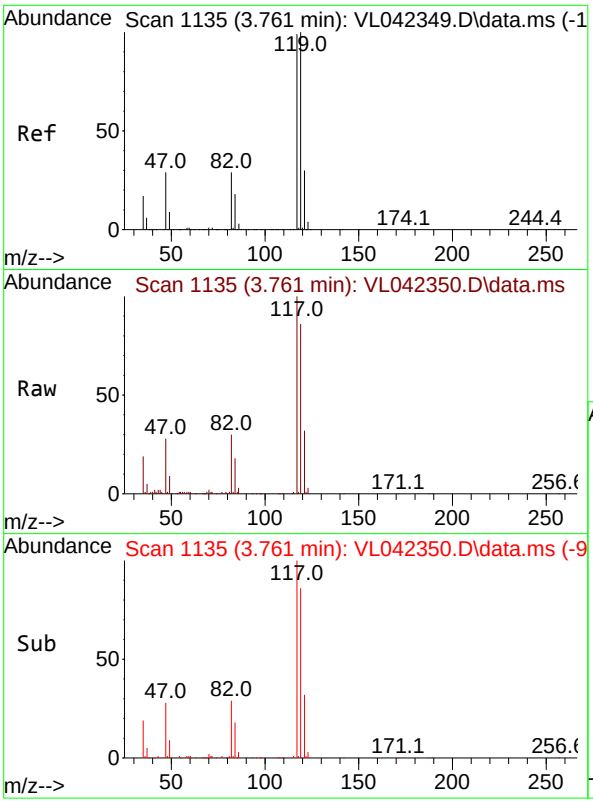




#34
2-Butanone
Concen: 2.069 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 43 Resp: 58249

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 22.5 | 18.2 | 27.2 |



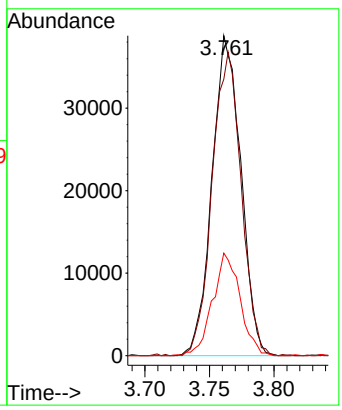


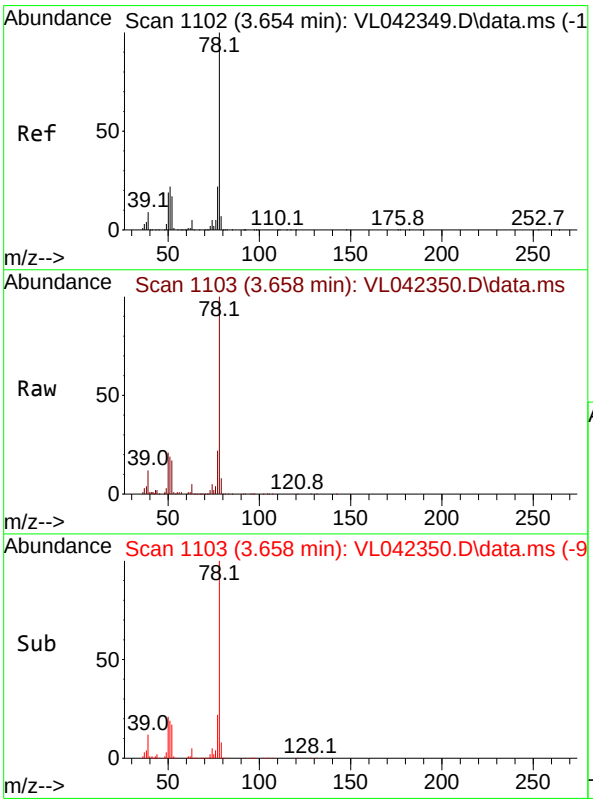

#35
Carbon Tetrachloride
Concen: 1.872 ppbv
RT: 3.761 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion:117 Resp: 60291

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 86.4 | 80.5 | 120.7 |
| 121 | 32.1 | 24.2 | 36.2 |

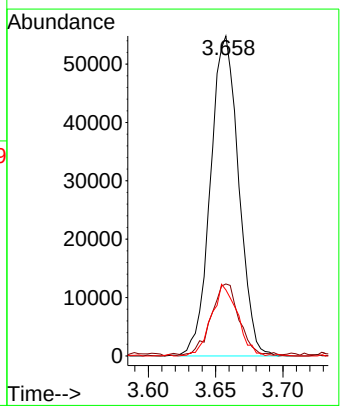


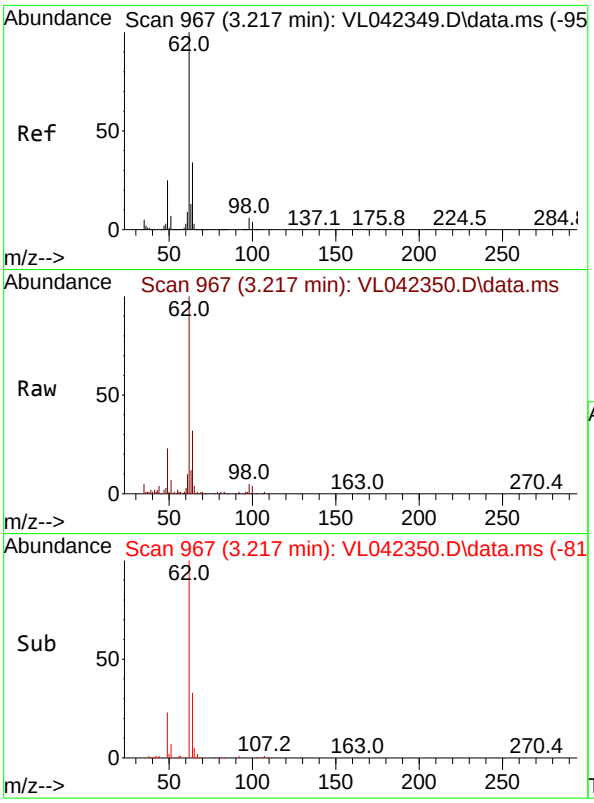




#36
Benzene
Concen: 2.079 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 78 Resp: 79814

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 22.0 | 17.4 | 26.0 |
| 50 | 20.6 | 15.5 | 23.3 |



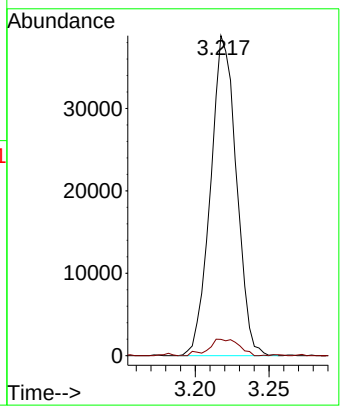


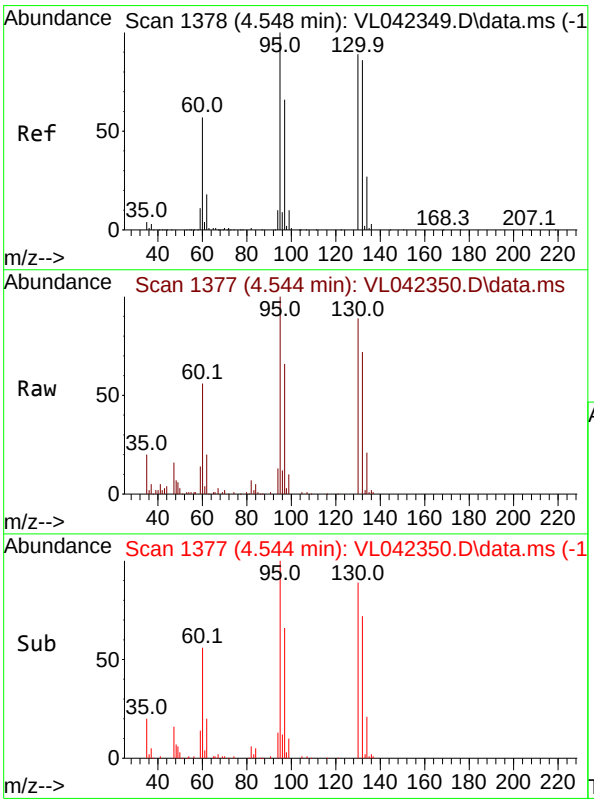

#37
1,2-Dichloroethane
Concen: 2.057 ppbv
RT: 3.217 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion: 62 Resp: 47398

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 6.4 | 5.1 | 7.7 |

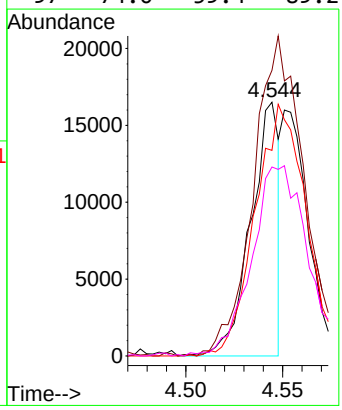


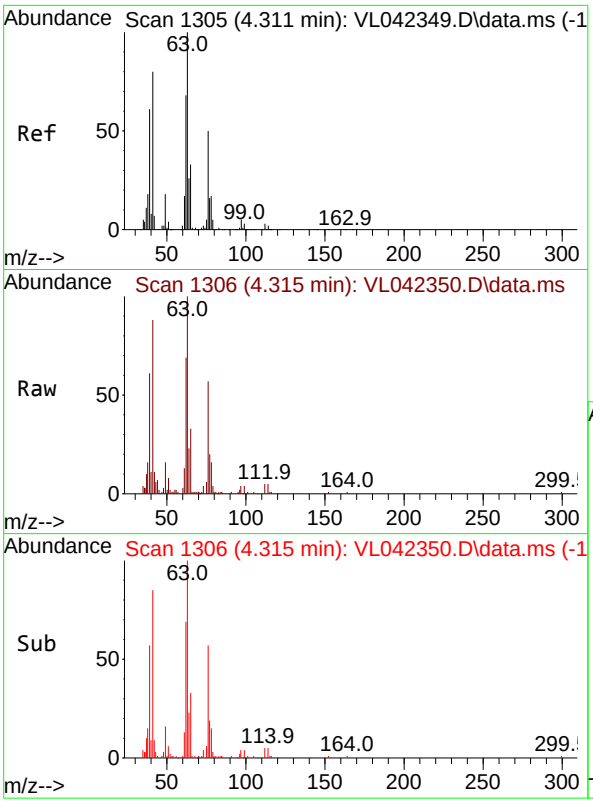




#38
Trichloroethene
Concen: 0.986 ppbv
RT: 4.544 min Scan# 1377
Delta R.T. -0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:130 Resp: 16602

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 112.6 | 89.8 | 134.6 |
| 132 | 81.1 | 77.7 | 116.5 |
| 97 | 74.0 | 59.4 | 89.2 |



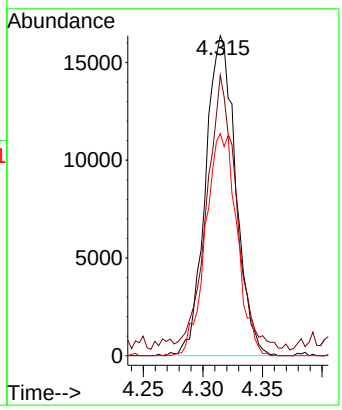


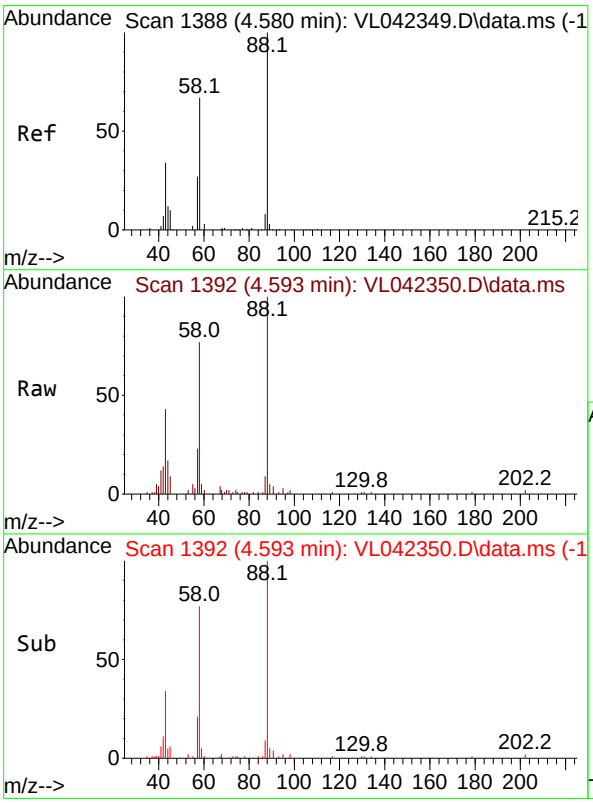

#39
1,2-Dichloropropane
Concen: 2.012 ppbv
RT: 4.315 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion: 63 Resp: 28806

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 85.2 | 64.2 | 96.2 |
| 62 | 69.4 | 54.3 | 81.5 |

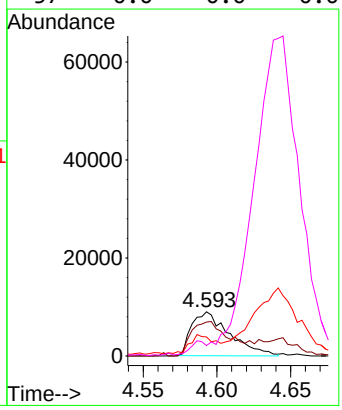


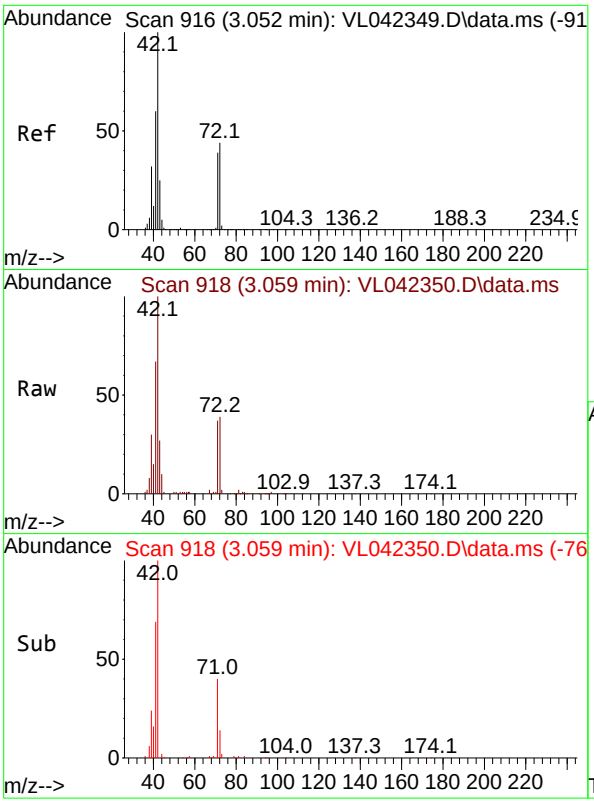




#40
1,4-Dioxane
Concen: 2.067 ppbv
RT: 4.593 min Scan# 1392
Delta R.T. 0.013 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 88 Resp: 16026

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 84.9 | 61.4 | 92.0 |
| 43 | 6.3 | 23.2 | 34.8# |
| 57 | 0.0 | 0.0 | 0.0 |



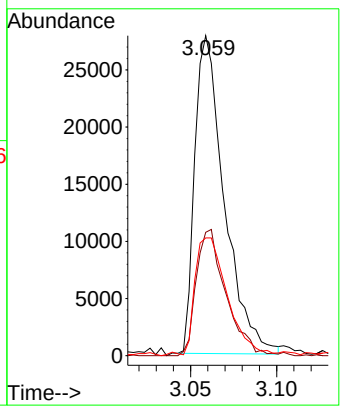


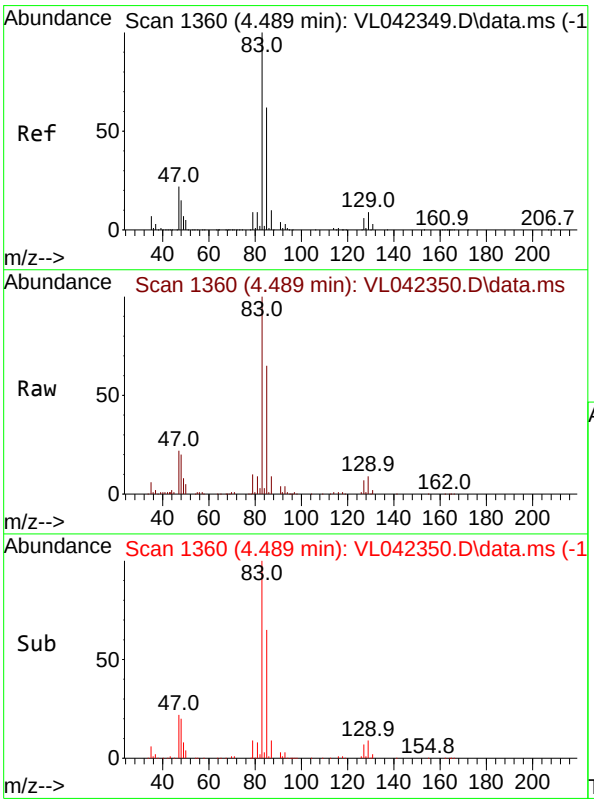

#41
Tetrahydrofuran
Concen: 2.047 ppbv
RT: 3.059 min Scan# 91
Delta R.T. 0.006 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion: 42 Resp: 33298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 39.9 | 32.3 | 48.5 |
| 71 | 41.5 | 31.4 | 47.2 |

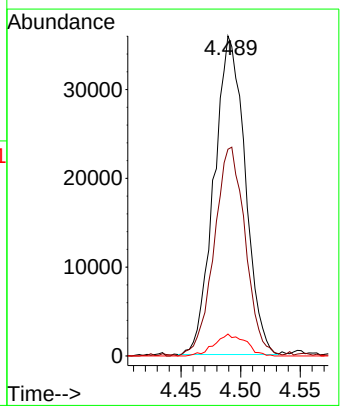


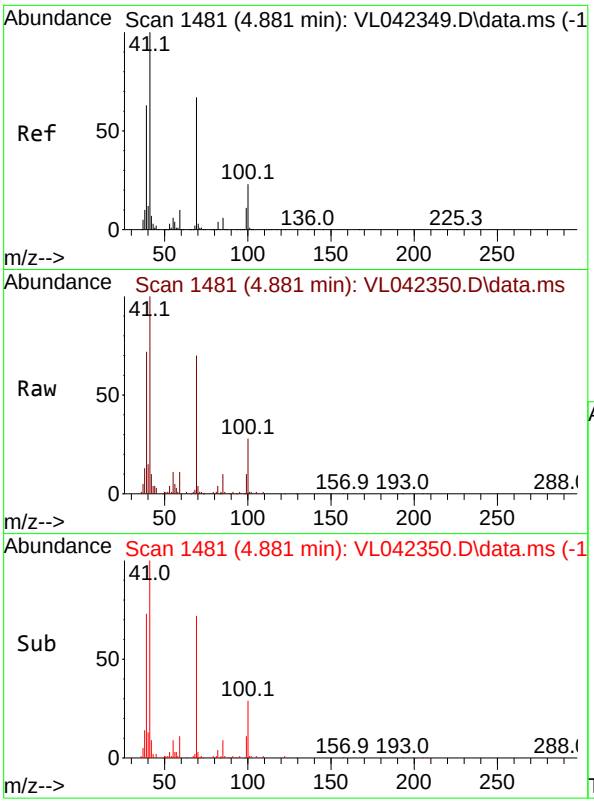




#42
Bromodichloromethane
Concen: 2.025 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 83 Resp: 64941

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.9 | 49.7 | 74.5 |
| 127 | 6.9 | 5.1 | 7.7 |



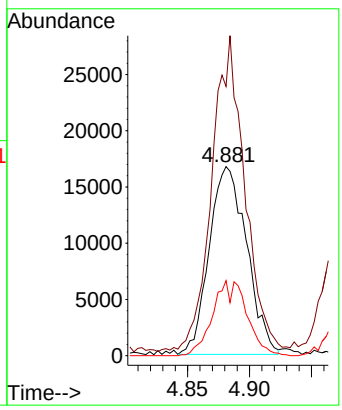


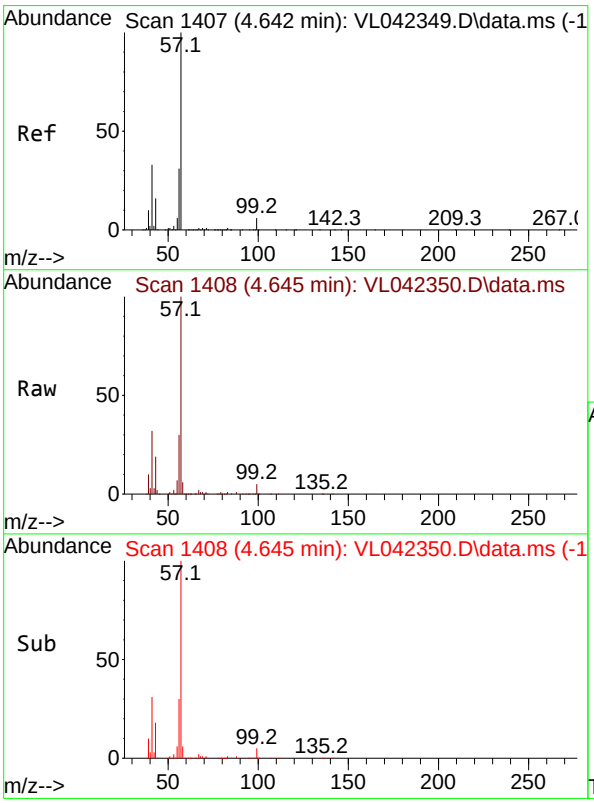

#43
Methyl Methacrylate
Concen: 2.046 ppbv
RT: 4.881 min Scan# 14
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion: 69 Resp: 35256

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 144.4 | 118.6 | 177.8 |
| 100 | 36.5 | 28.2 | 42.2 |

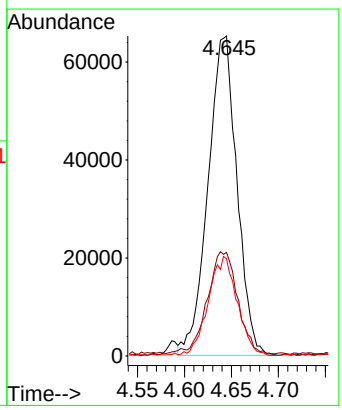


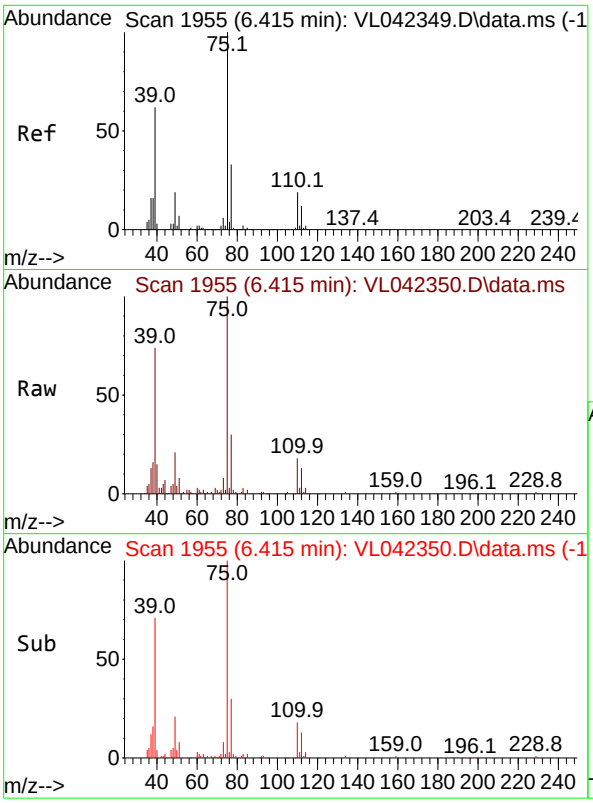




#44
2,2,4-Trimethylpentane
Concen: 2.103 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 57 Resp: 139641

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 34.4 | 27.2 | 40.8 |
| 56 | 31.3 | 25.7 | 38.5 |



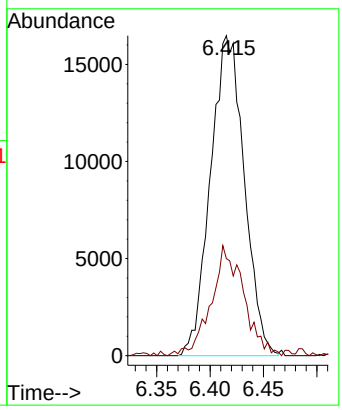


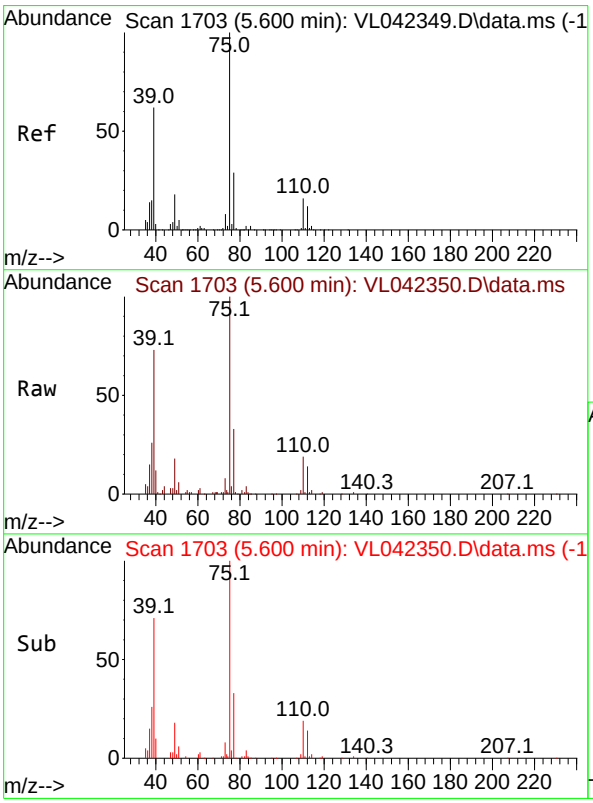

#45
t-1,3-Dichloropropene
Concen: 2.050 ppbv
RT: 6.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion: 75 Resp: 36265

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.4 | 27.0 | 40.6 |

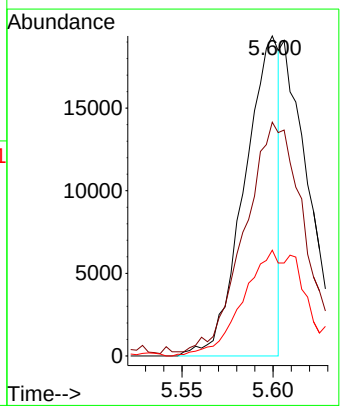


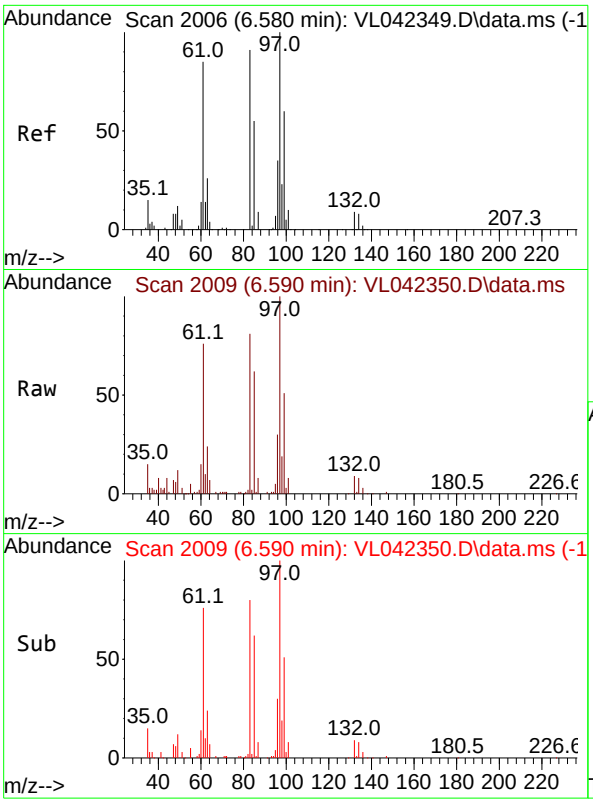




#46
cis-1,3-Dichloropropene
Concen: 1.183 ppbv
RT: 5.600 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 75 Resp: 25569

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 39 | 71.8 | 50.0 | 75.0 |
| 77 | 32.5 | 23.0 | 34.6 |



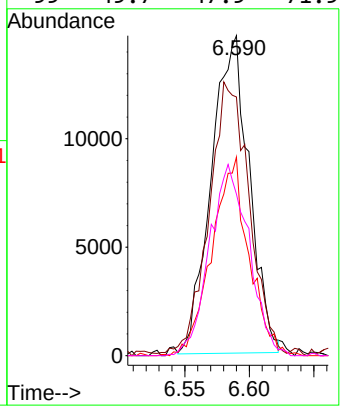


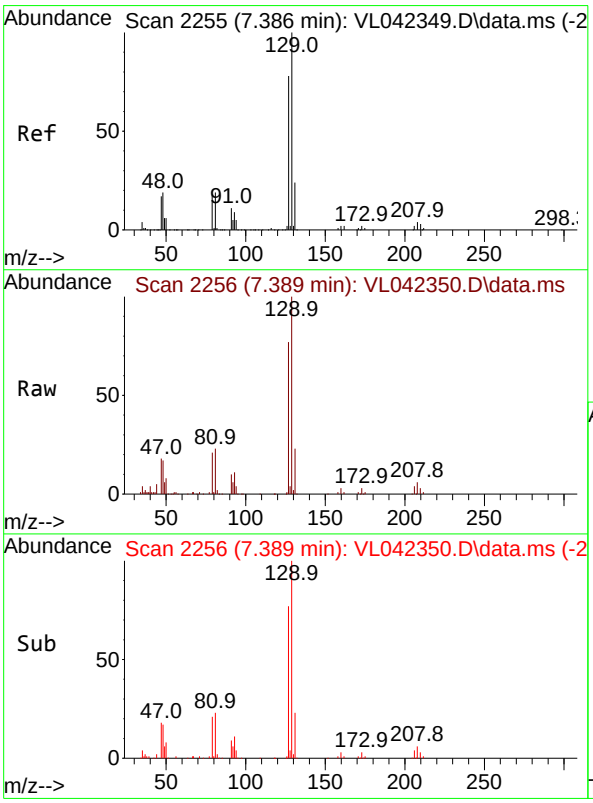

#47
1,1,2-Trichloroethane
Concen: 2.049 ppbv
RT: 6.590 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion: 97 Resp: 29879

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 78.8 | 72.8 | 109.2 |
| 85 | 61.7 | 44.2 | 66.4 |
| 99 | 49.7 | 47.9 | 71.9 |

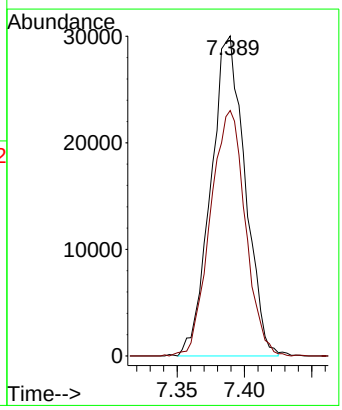


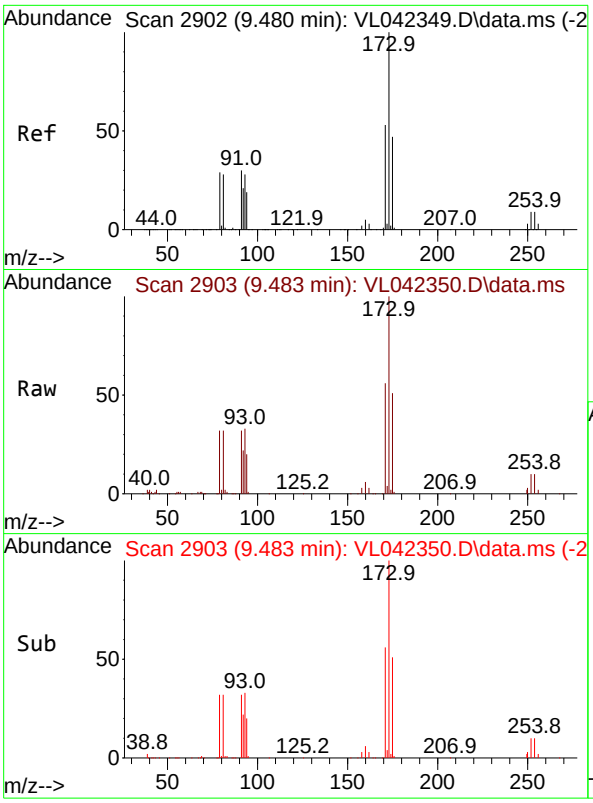




#48
Dibromochloromethane
Concen: 2.061 ppbv
RT: 7.389 min Scan# 2256
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:129 Resp: 53069

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.4 | 39.1 | 117.3 |



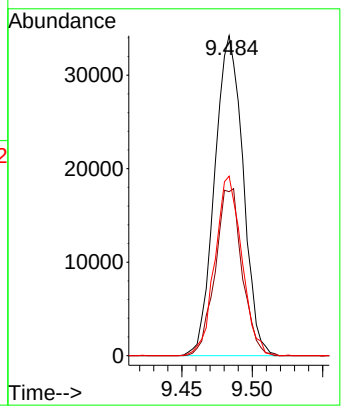


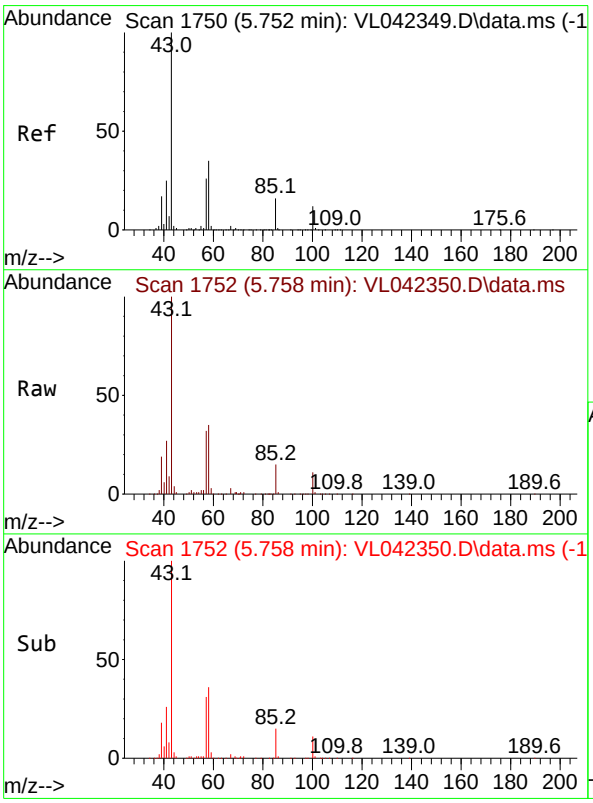

#49
Bromoform
Concen: 2.135 ppbv
RT: 9.483 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion:173 Resp: 48069

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.4 | 38.2 | 57.2 |
| 171 | 53.0 | 40.9 | 61.3 |

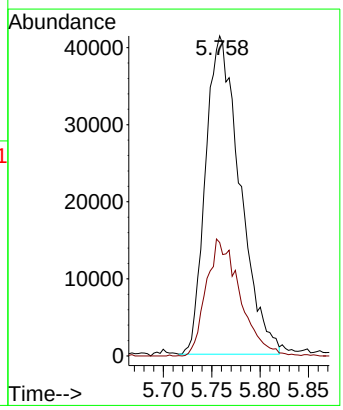


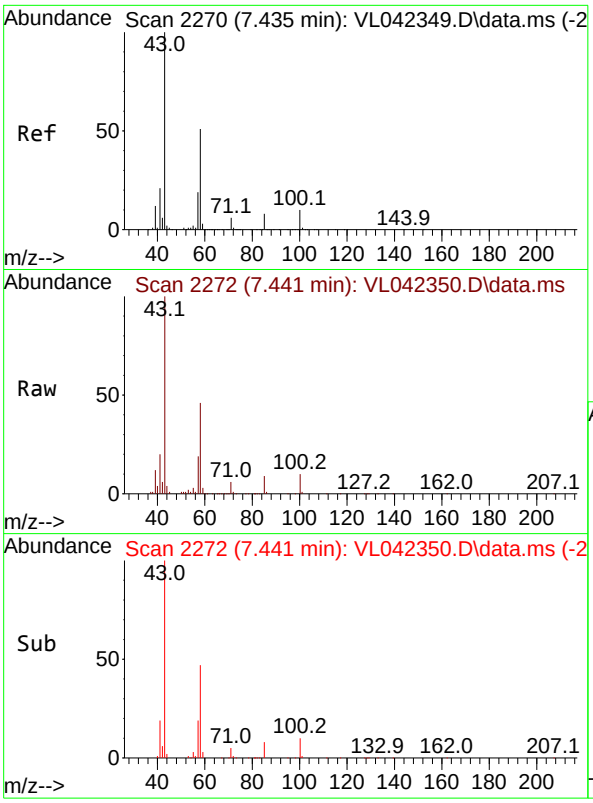




#50
4-Methyl-2-Pentanone
Concen: 2.180 ppbv
RT: 5.758 min Scan# 1752
Delta R.T. 0.006 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 43 Resp: 102182

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 36.3 | 28.6 | 43.0 |



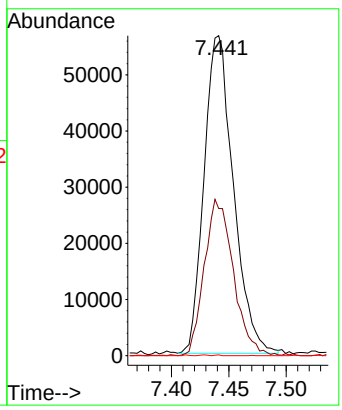


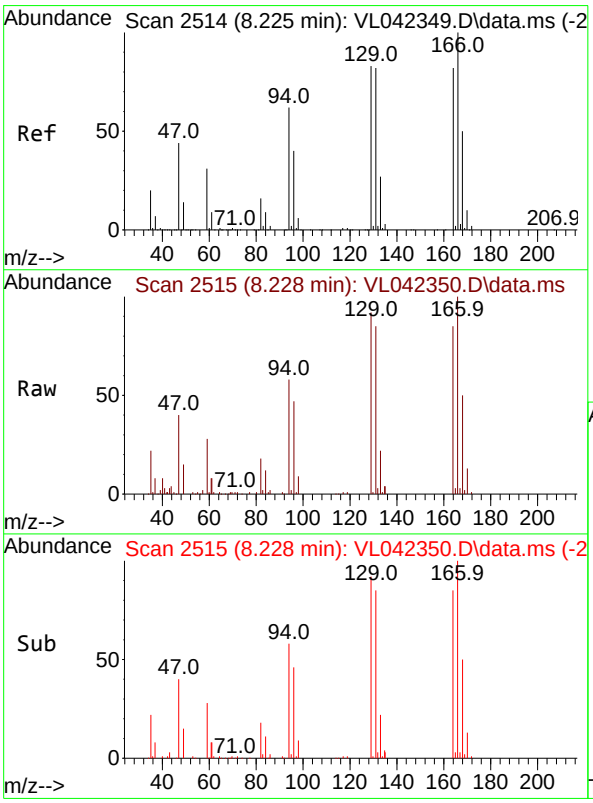

#51
2-Hexanone
Concen: 2.375 ppbv
RT: 7.441 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion: 43 Resp: 100443

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 49.0 | 40.2 | 60.4 |
| 98 | 0.1 | 0.1 | 0.1 |

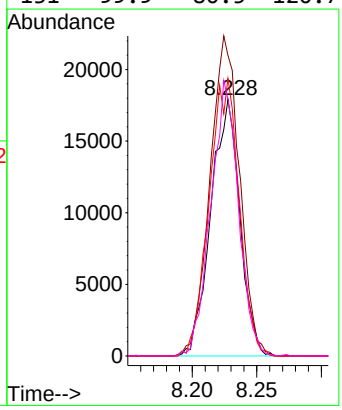


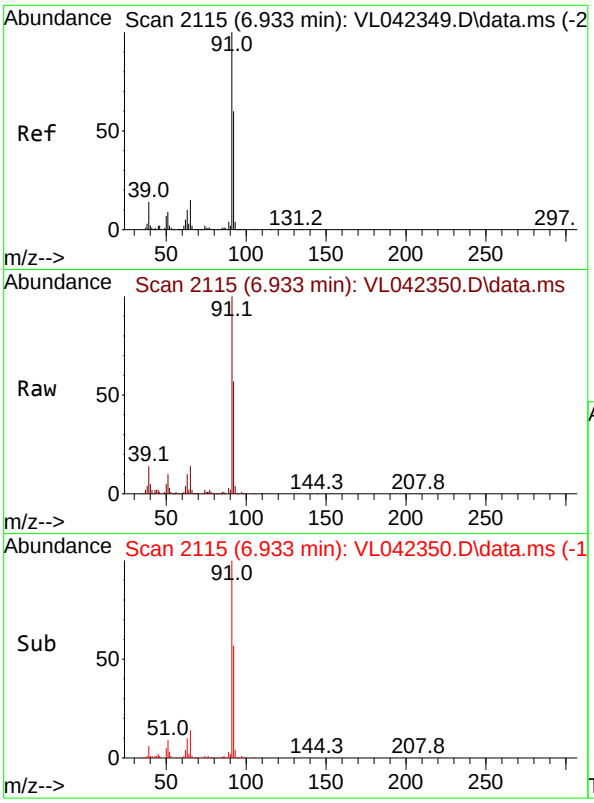




#52
Tetrachloroethene
Concen: 1.877 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:164 Resp: 27854

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 117.2 | 98.2 | 147.2 |
| 129 | 108.2 | 81.8 | 122.8 |
| 131 | 99.9 | 80.5 | 120.7 |



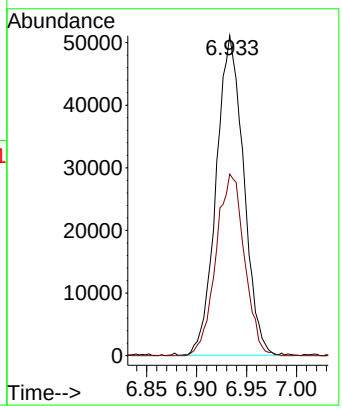


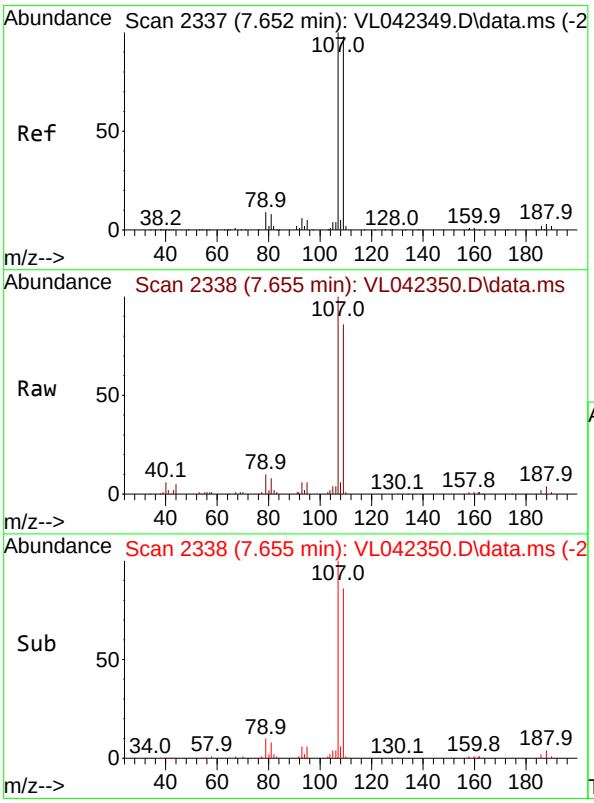

#53
Toluene
Concen: 2.116 ppbv
RT: 6.933 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion: 91 Resp: 97493

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 59.1 | 48.2 | 72.4 |

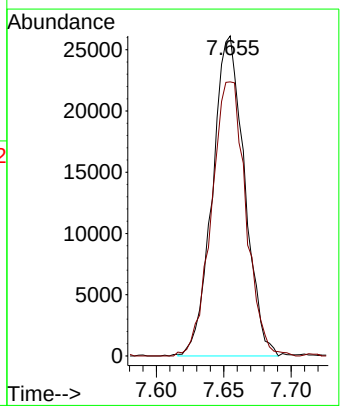


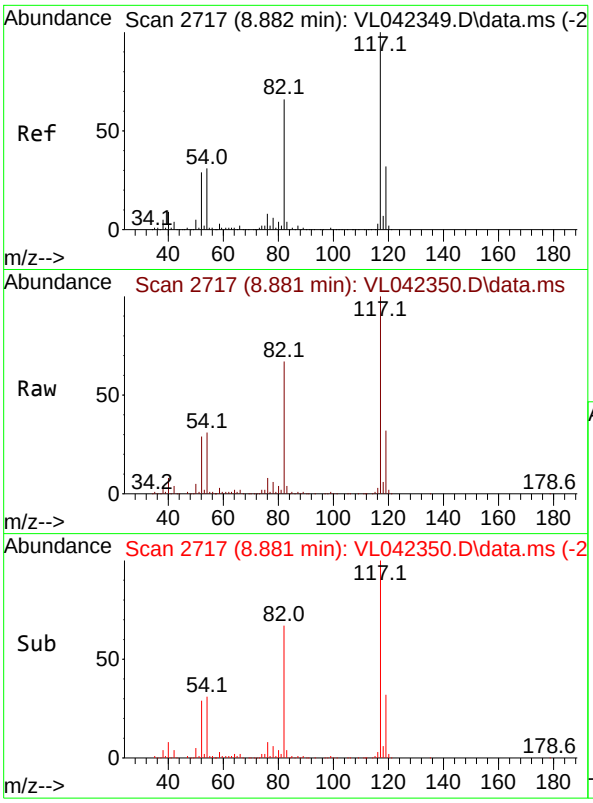




#54
1,2-Dibromoethane
Concen: 2.076 ppbv
RT: 7.655 min Scan# 2338
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:107 Resp: 43153

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 84.5 | 78.2 | 117.4 |



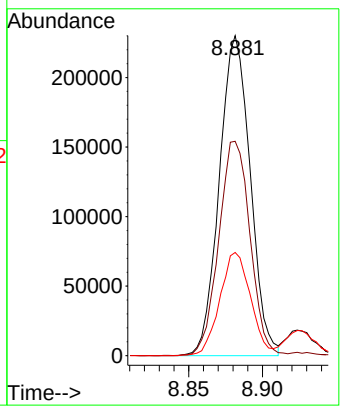


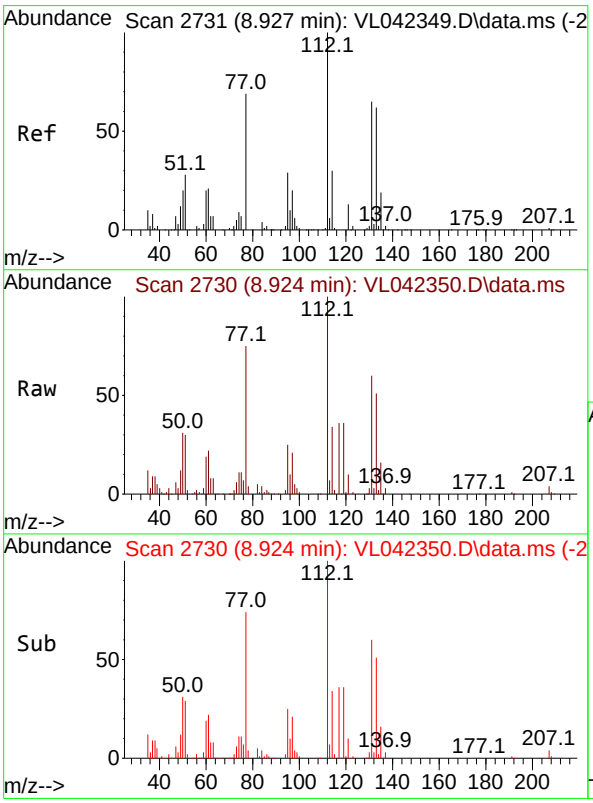

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion:117 Resp: 335603

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 68.8 | 57.8 | 86.6 |
| 119 | 32.2 | 25.2 | 37.8 |

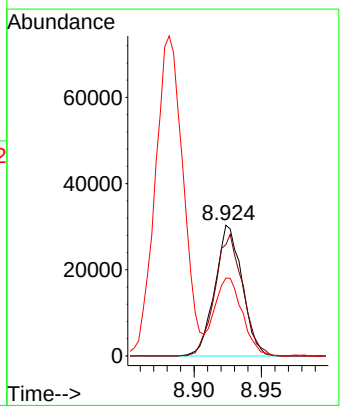


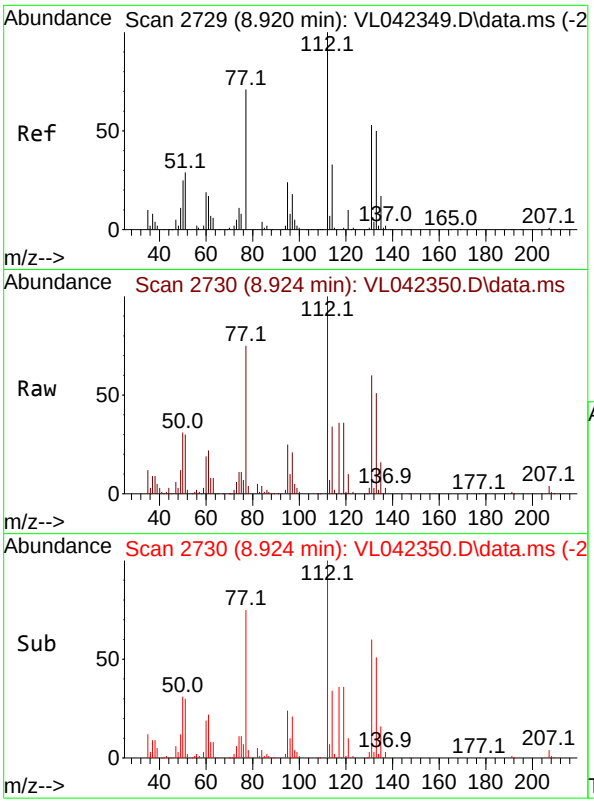




#56
1,1,1,2-Tetrachloroethane
Concen: 2.097 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. -0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:131 Resp: 42601

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.3 | 78.3 | 117.5 |
| 119 | 53.8 | 48.7 | 73.1 |



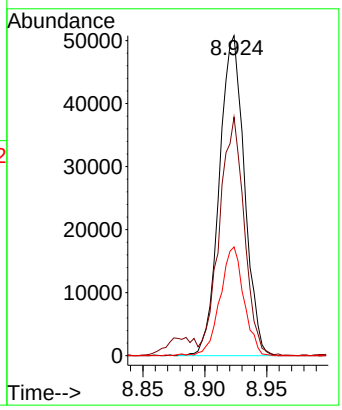


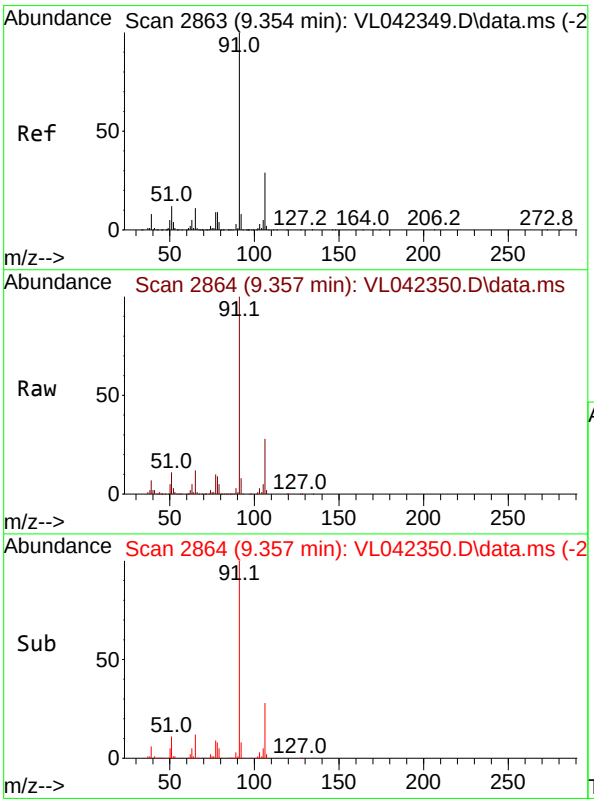

#57
Chlorobenzene
Concen: 2.054 ppbv
RT: 8.924 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion:112 Resp: 71685

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 74.0 | 57.8 | 86.6 |
| 114 | 34.0 | 29.3 | 35.9 |

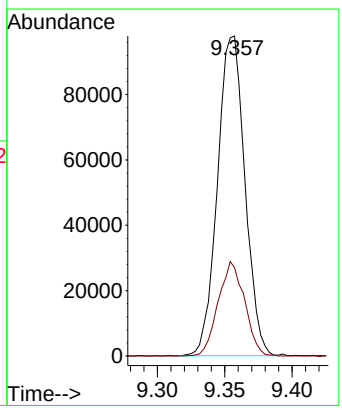


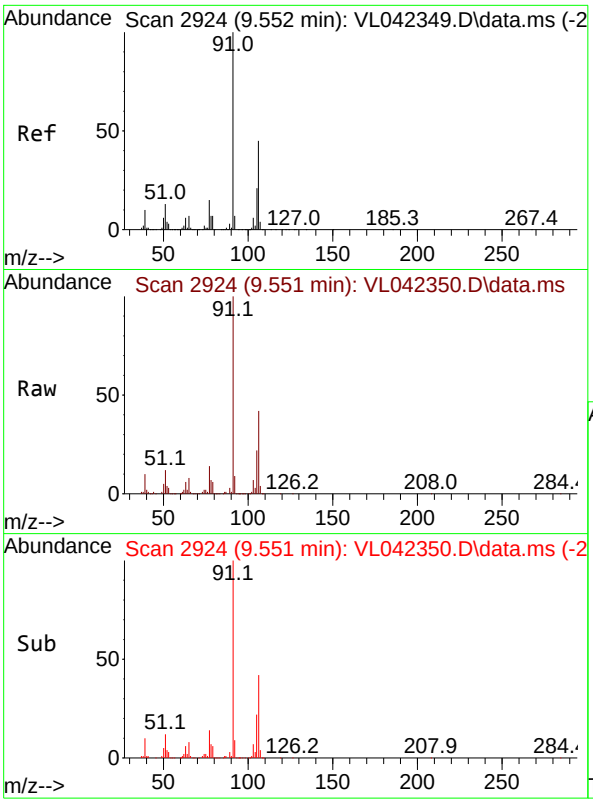




#58
Ethyl Benzene
Concen: 2.088 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 91 Resp: 138810

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 27.7 | 23.0 | 34.4 |



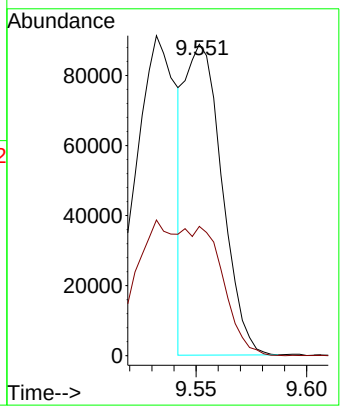


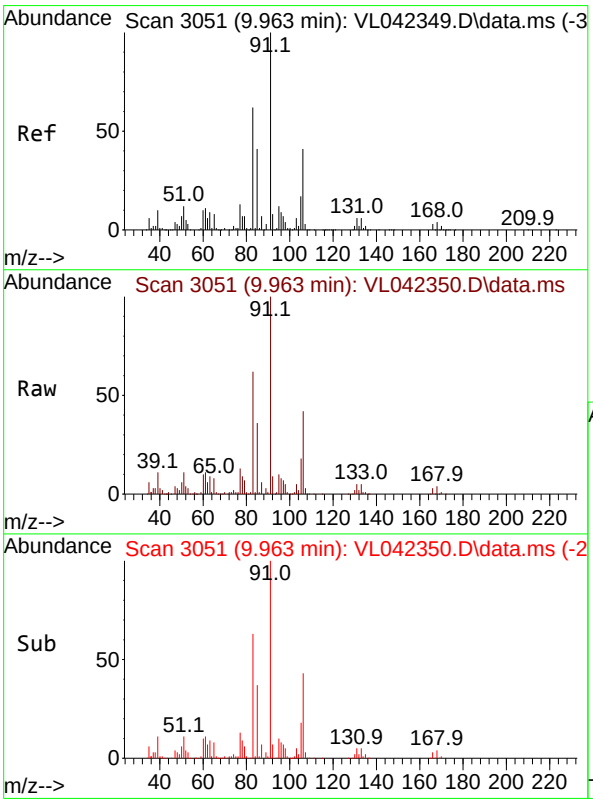

#59
m/p-Xylene
Concen: 1.934 ppbv
RT: 9.551 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion: 91 Resp: 103886

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 0.0 | 35.4 | 53.2# |

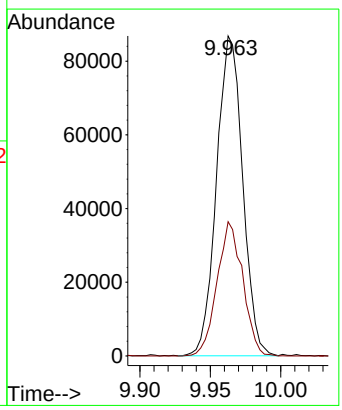


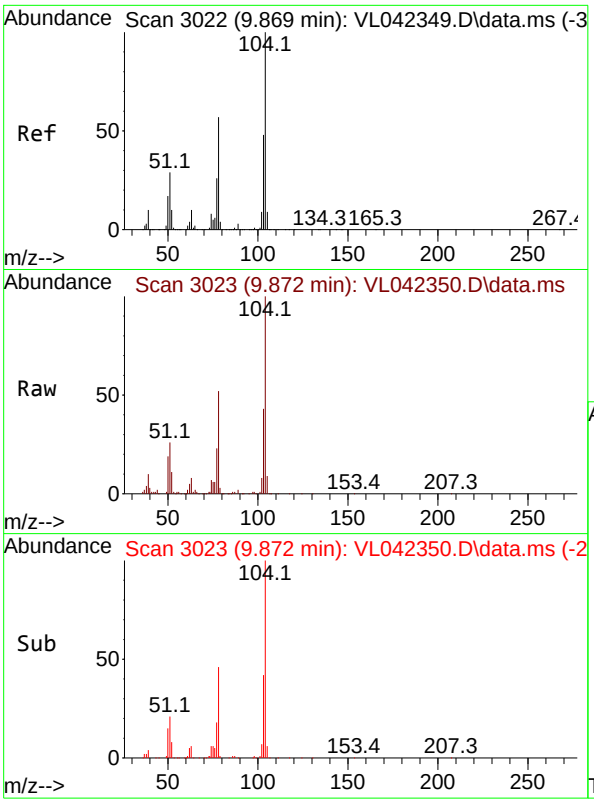




#60
o-Xylene
Concen: 2.076 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 91 Resp: 111972

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 41.2 | 21.1 | 63.4 |



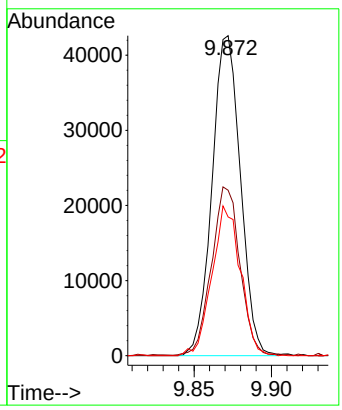


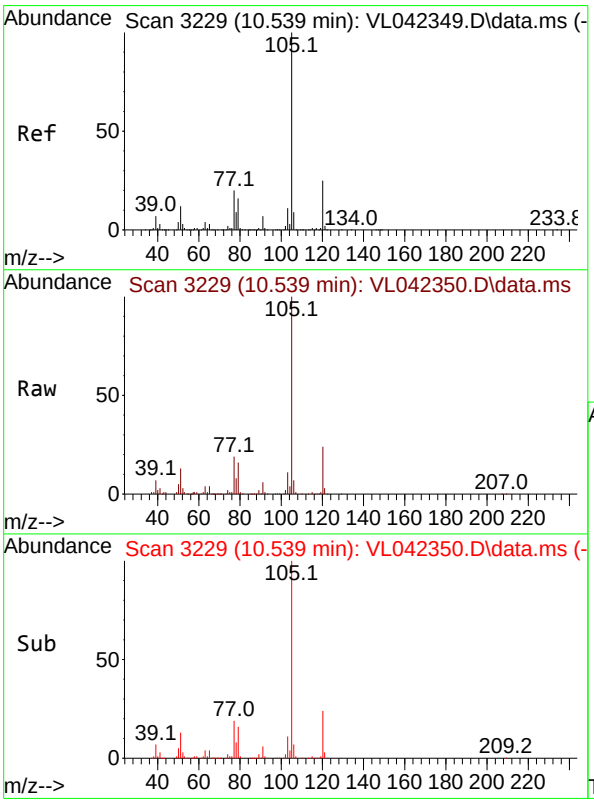

#61
Styrene
Concen: 2.106 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion:104 Resp: 54229

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 53.4 | 44.6 | 66.8 |
| 103 | 47.1 | 37.4 | 56.0 |

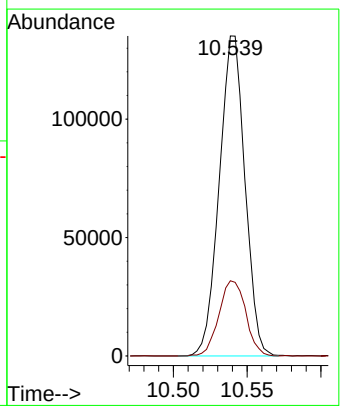


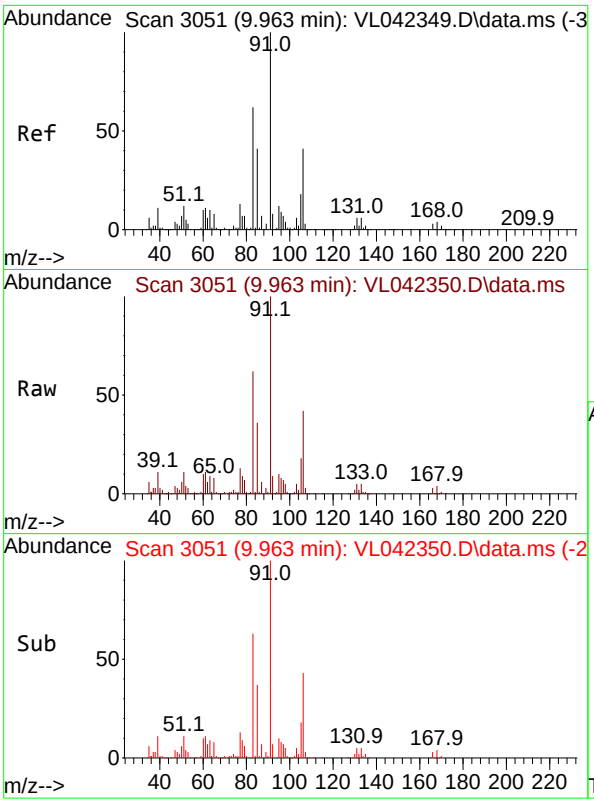




#62
Isopropylbenzene
Concen: 2.067 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:105 Resp: 163716

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 24.6 | 19.8 | 29.8 |



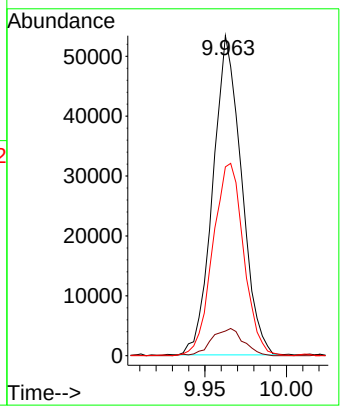


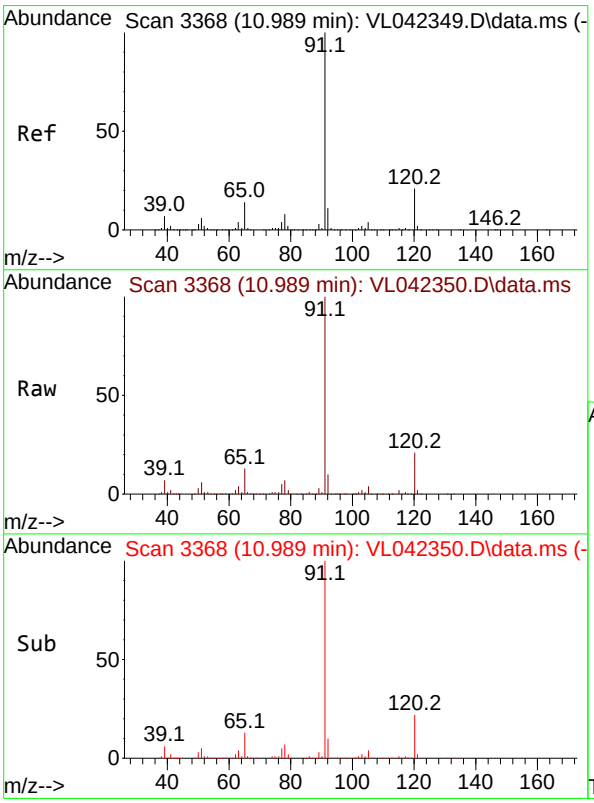

#63
1,1,2,2-Tetrachloroethane
Concen: 1.853 ppbv
RT: 9.963 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion: 83 Resp: 64952

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.6 | 4.5 | 13.7 |
| 85 | 65.4 | 32.4 | 97.0 |

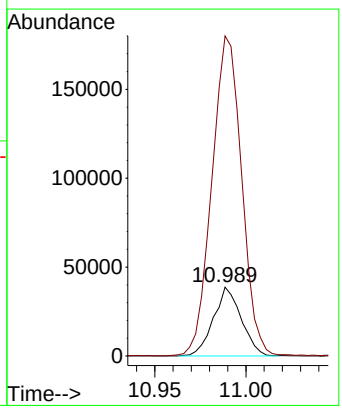


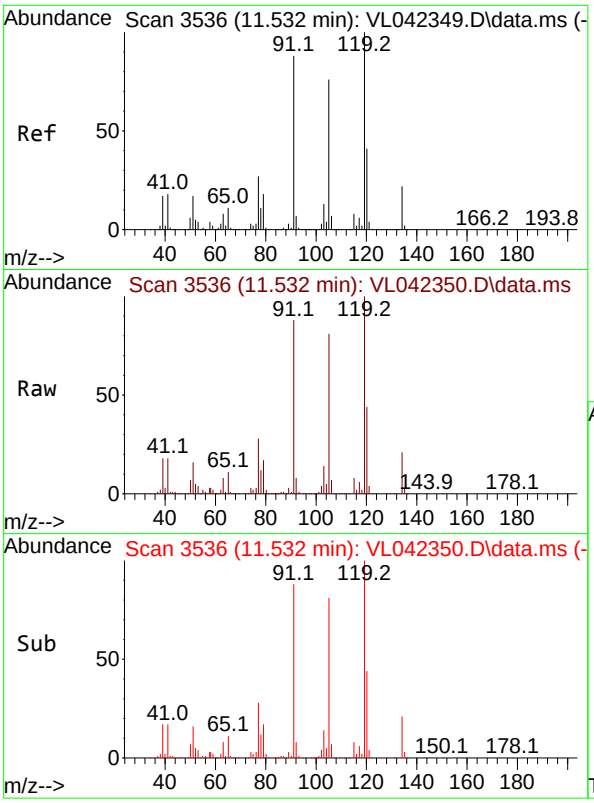




#64
n-propylbenzene
Concen: 2.058 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:120 Resp: 40956

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 502.0 | 392.4 | 588.6 |



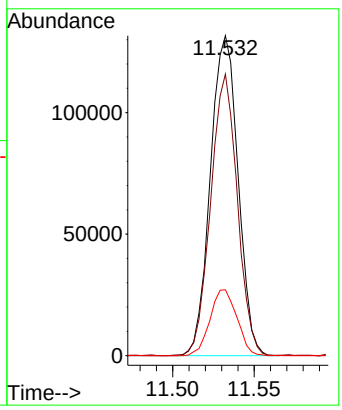


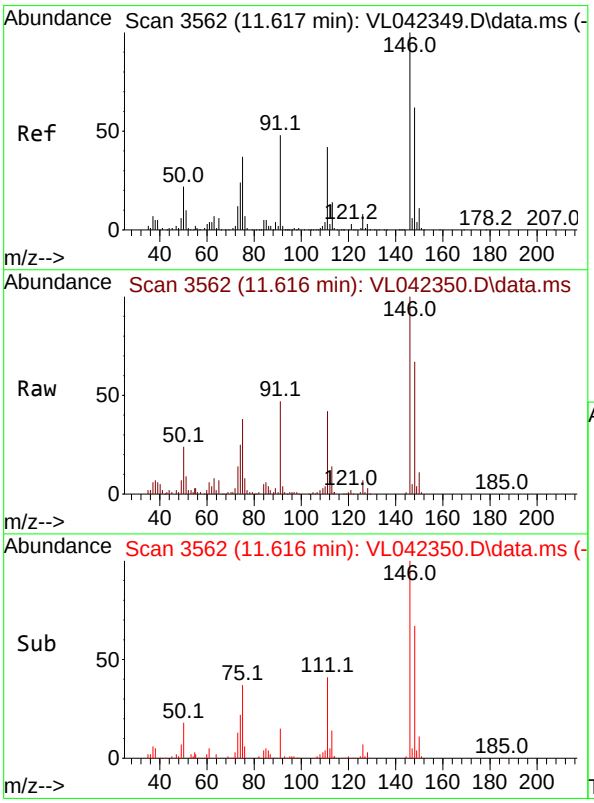

#65
tert-Butylbenzene
Concen: 2.135 ppbv
RT: 11.532 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion:119 Resp: 155401

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 85.0 | 74.6 | 111.8 |
| 134 | 20.1 | 18.8 | 28.2 |

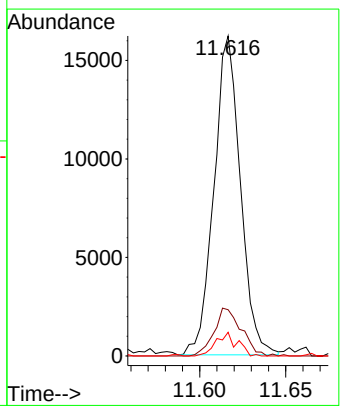


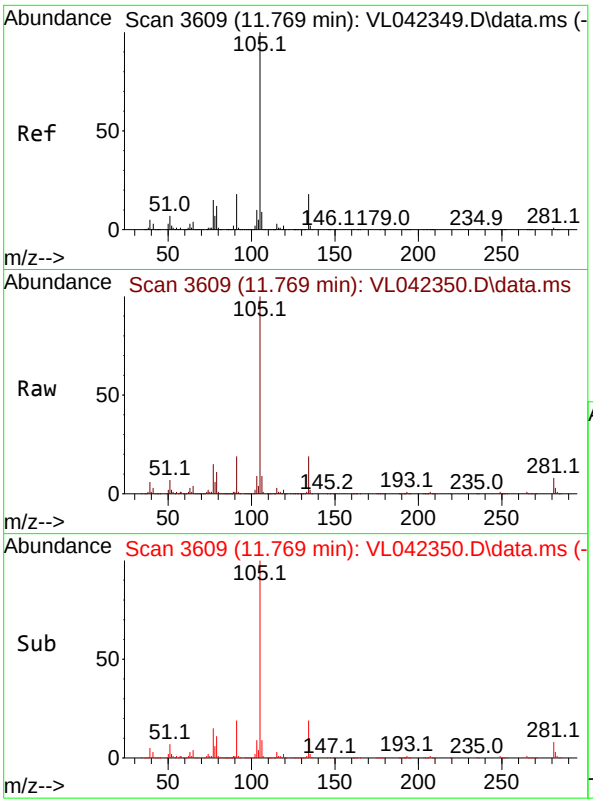




#66
Benzyl Chloride
Concen: 2.163 ppbv
RT: 11.616 min Scan# 3562
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 91 Resp: 17300

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 15.6 | 11.8 | 17.6 |
| 128 | 6.1 | 4.5 | 6.7 |



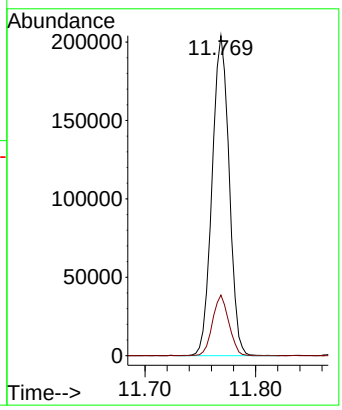


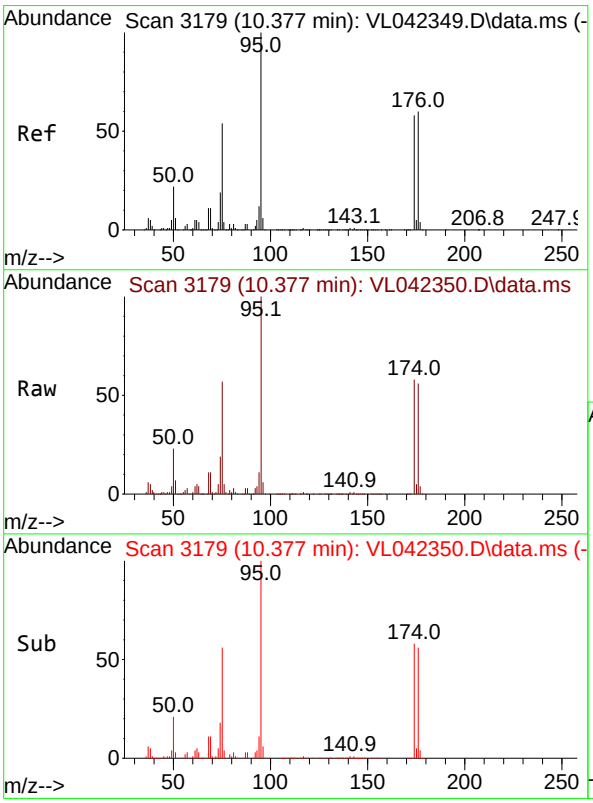

#67
sec-Butylbenzene
Concen: 2.156 ppbv
RT: 11.769 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion:105 Resp: 218327

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 18.1 | 14.6 | 21.8 |

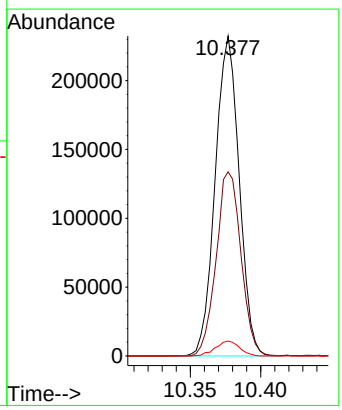


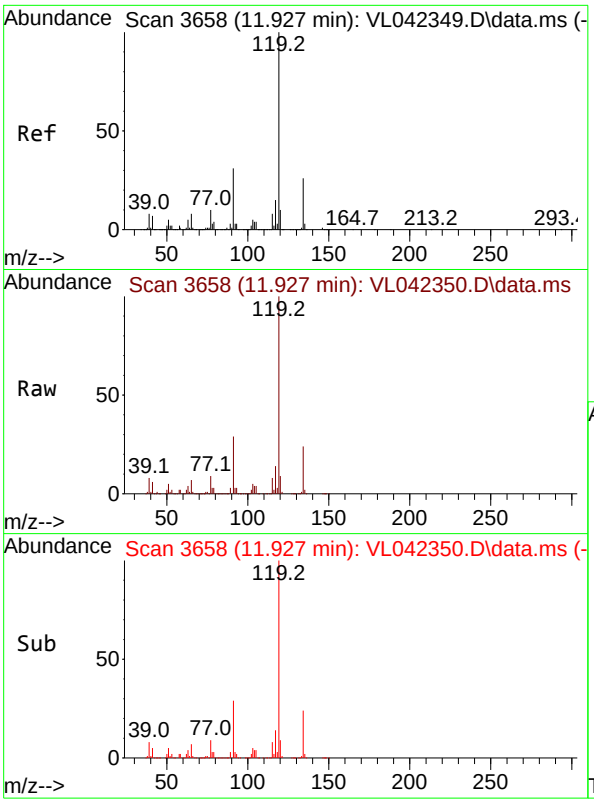




#68
1-Bromo-4-Fluorobenzene
Concen: 9.998 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 95 Resp: 275715

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 59.6 | 48.5 | 72.7 |
| 175 | 4.7 | 3.7 | 5.5 |



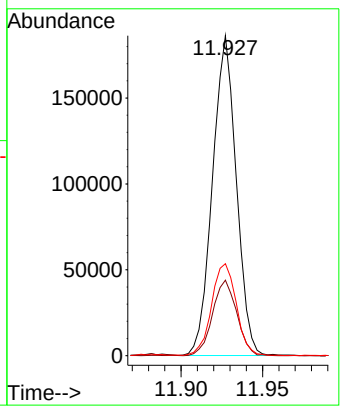


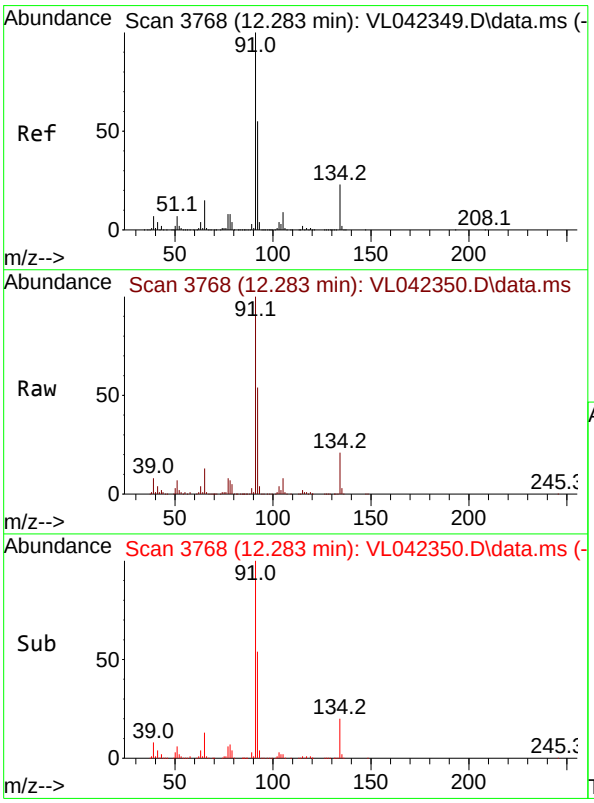

#69
p-Isopropyltoluene
Concen: 2.145 ppbv
RT: 11.927 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion:119 Resp: 188657

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 24.2 | 20.0 | 30.0 |
| 91 | 30.8 | 24.4 | 36.6 |

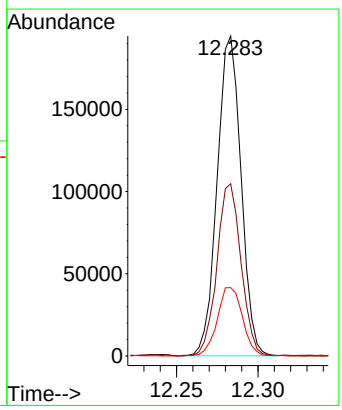


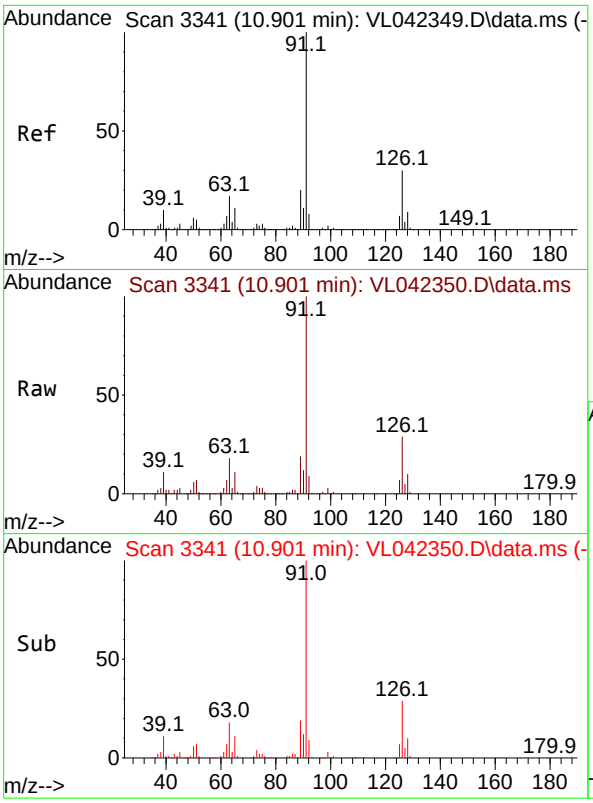




#70
n-Butylbenzene
Concen: 2.164 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 91 Resp: 198221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 54.4 | 44.2 | 66.4 |
| 134 | 22.6 | 18.2 | 27.4 |



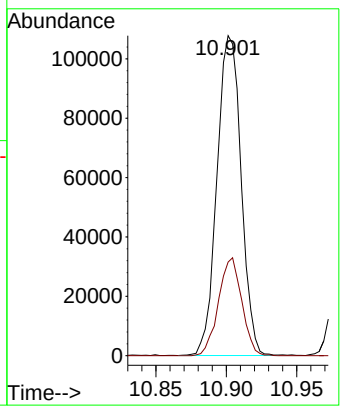


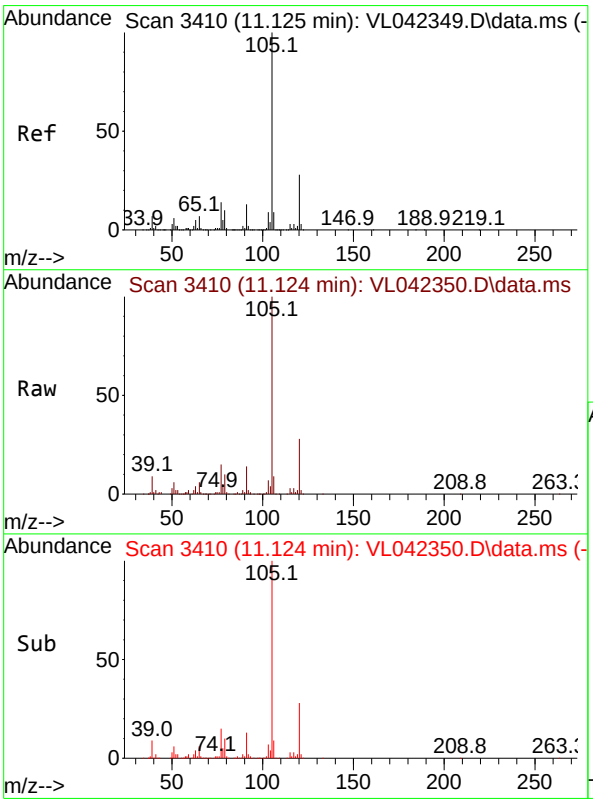

#71
2-Chlorotoluene
Concen: 2.075 ppbv
RT: 10.901 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion: 91 Resp: 128858

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 29.5 | 11.4 | 45.4 |

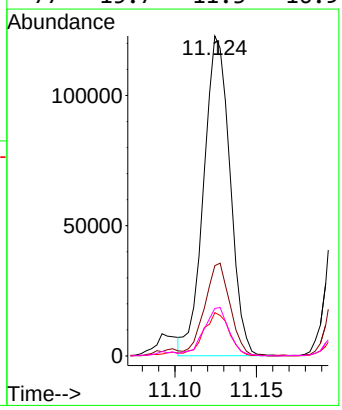


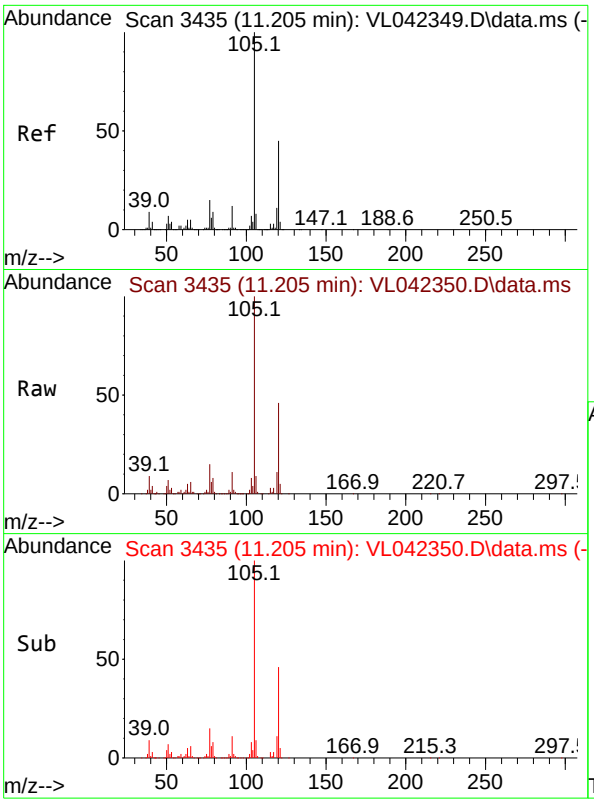




#72
4-Ethyltoluene
Concen: 2.091 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:105 Resp: 137872

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 30.1 | 23.2 | 34.8 |
| 91 | 14.4 | 10.4 | 15.6 |
| 77 | 15.7 | 11.3 | 16.9 |



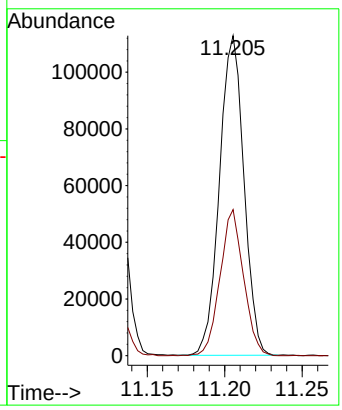


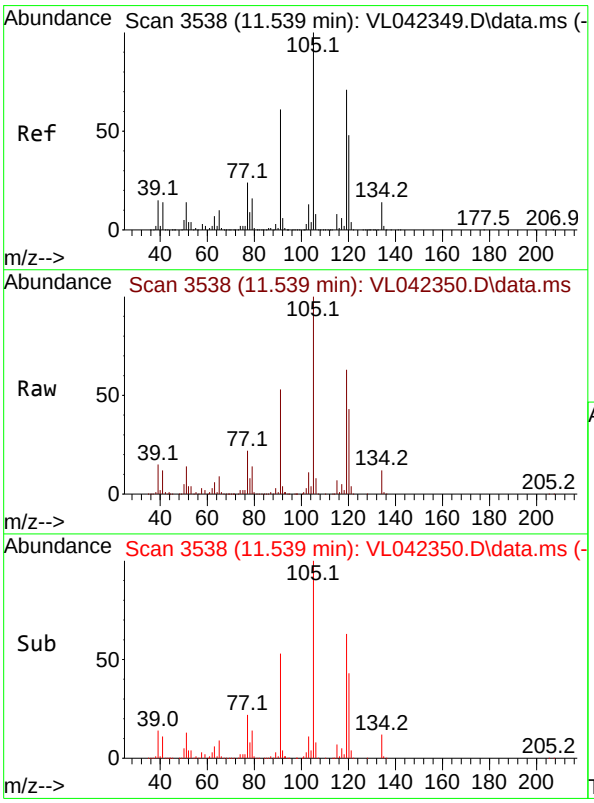

#73
1,3,5-Trimethylbenzene
Concen: 2.123 ppbv
RT: 11.205 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion:105 Resp: 123580

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.7 | 35.6 | 53.4 |

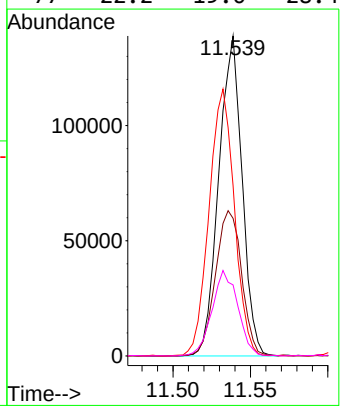


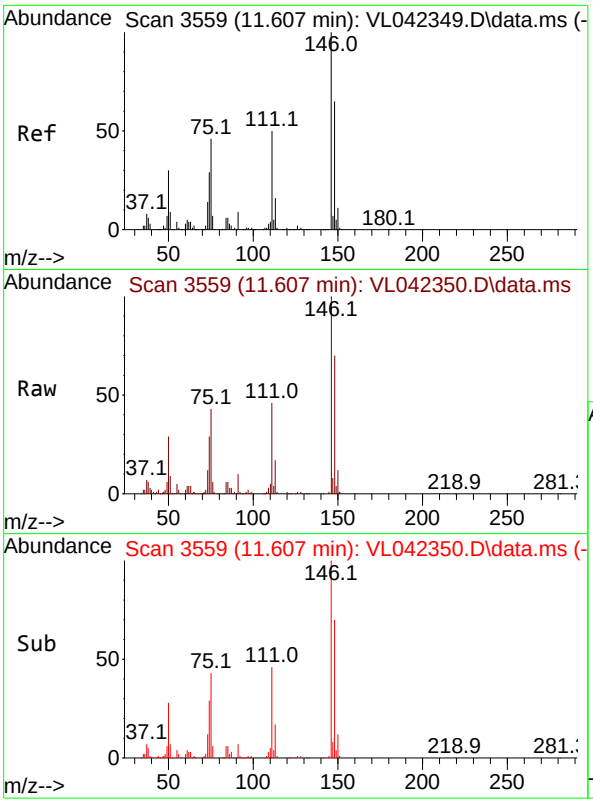




#74
1,2,4-Trimethylbenzene
Concen: 2.140 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:105 Resp: 145510

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 43.0 | 38.1 | 57.1 |
| 91 | 53.1 | 48.8 | 73.2 |
| 77 | 22.2 | 19.0 | 28.4 |



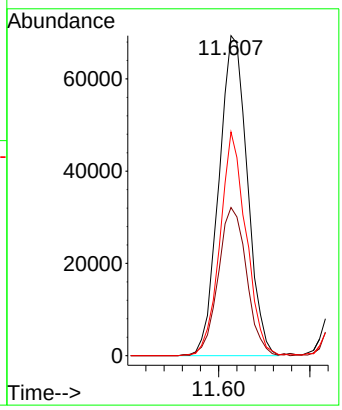


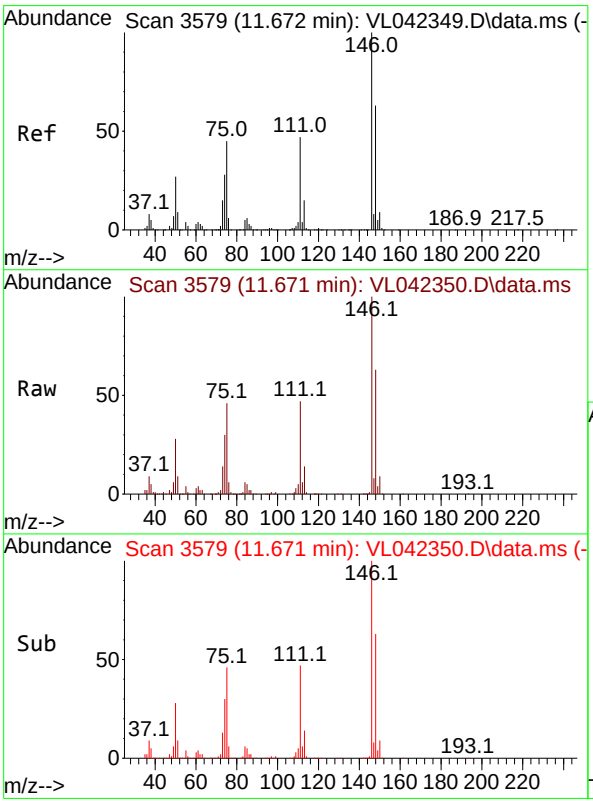

#75
1,3-Dichlorobenzene
Concen: 2.124 ppbv
RT: 11.607 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion:146 Resp: 75082

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 46.3 | 24.3 | 72.8 |
| 148 | 64.3 | 31.6 | 94.8 |

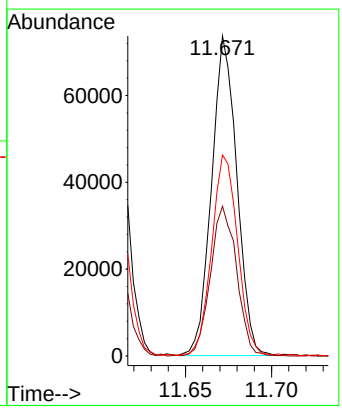


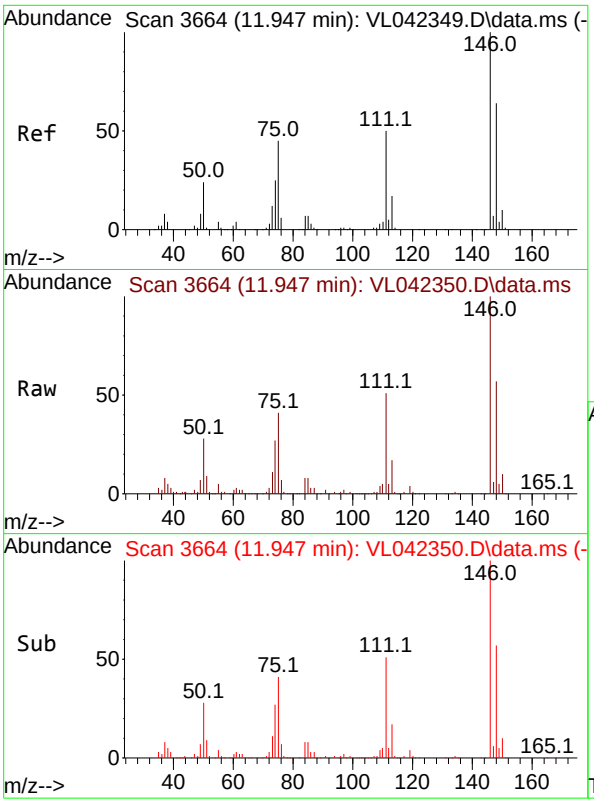




#76
1,4-Dichlorobenzene
Concen: 2.120 ppbv
RT: 11.671 min Scan# 3579
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:146 Resp: 75323

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 48.4 | 24.2 | 72.6 |
| 148 | 65.1 | 32.1 | 96.5 |



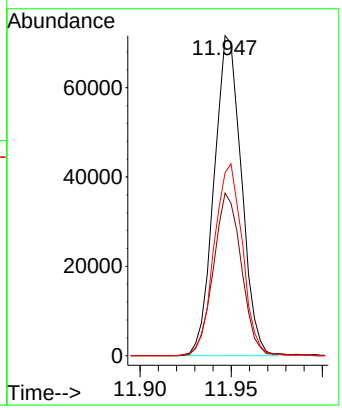


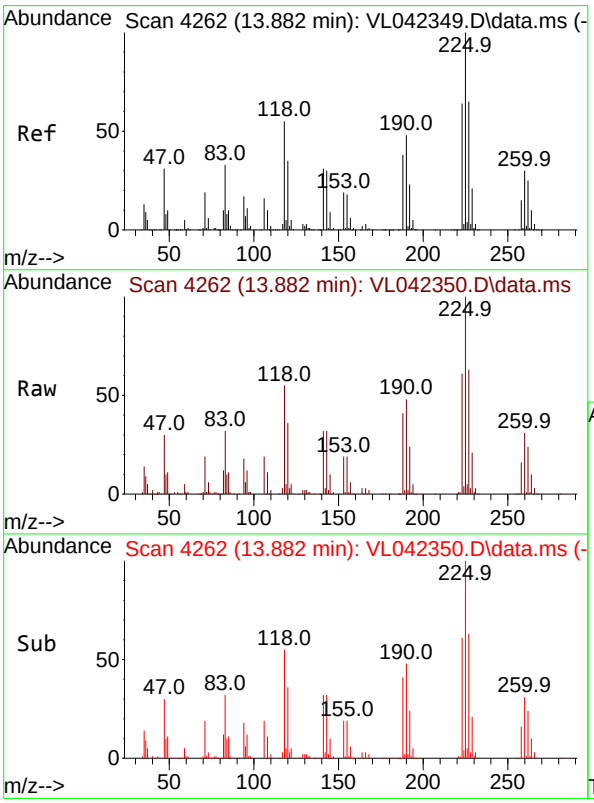

#77
1,2-Dichlorobenzene
Concen: 2.176 ppbv
RT: 11.947 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion:146 Resp: 74786

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 52.0 | 25.3 | 75.9 |
| 148 | 61.8 | 31.5 | 94.5 |

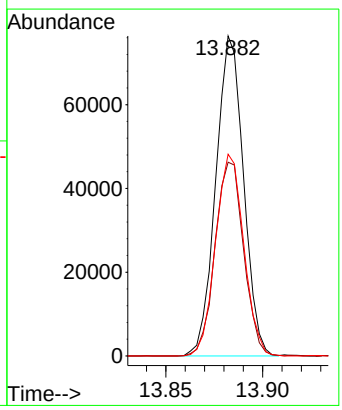


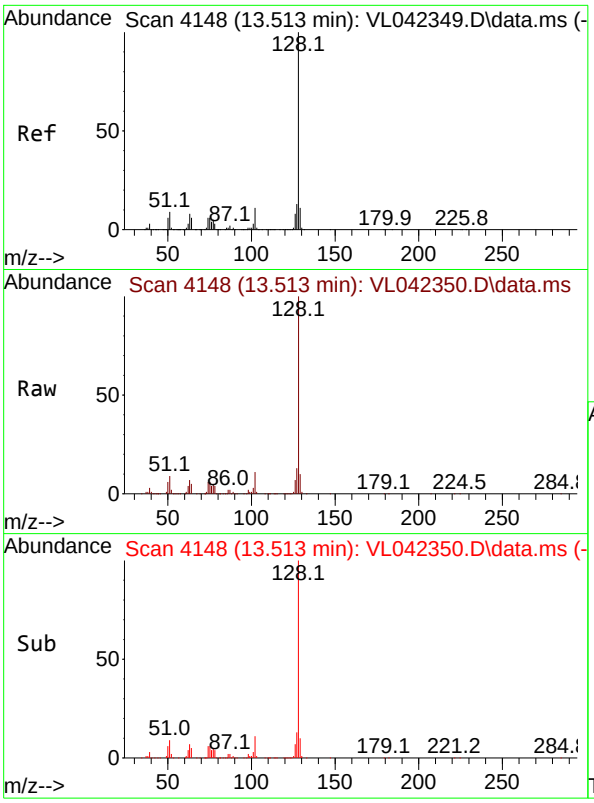




#78
Hexachloro-1,3-Butadiene
Concen: 2.194 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:225 Resp: 76158

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.6 | 50.3 | 75.5 |
| 227 | 64.1 | 51.5 | 77.3 |



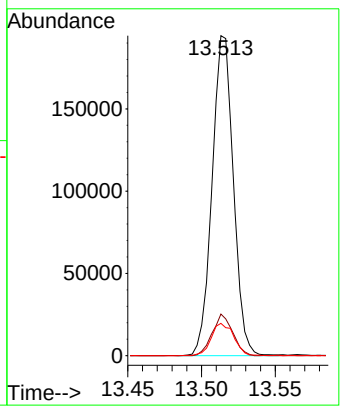


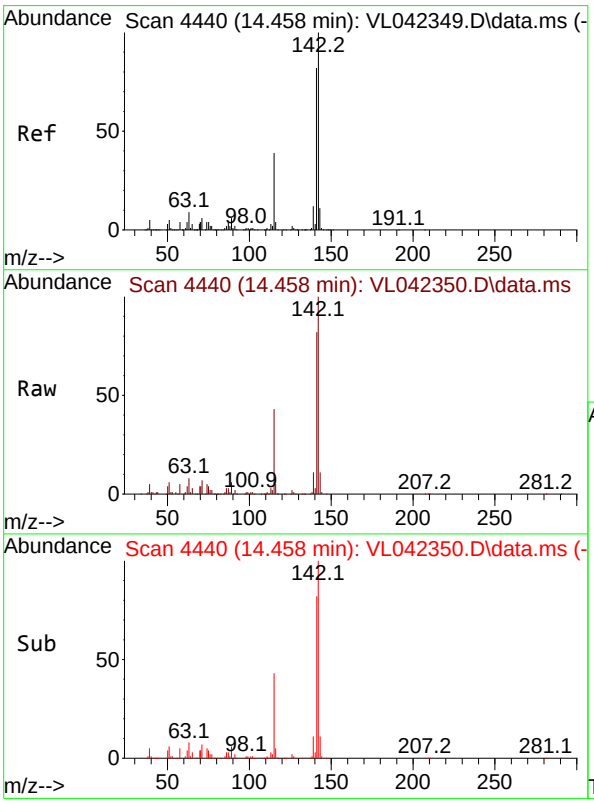

#79
Naphthalene
Concen: 2.401 ppbv
RT: 13.513 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion:128 Resp: 195233

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.0 | 10.6 | 15.8 |
| 129 | 10.1 | 8.6 | 12.8 |

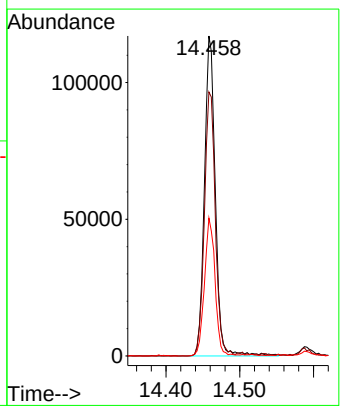


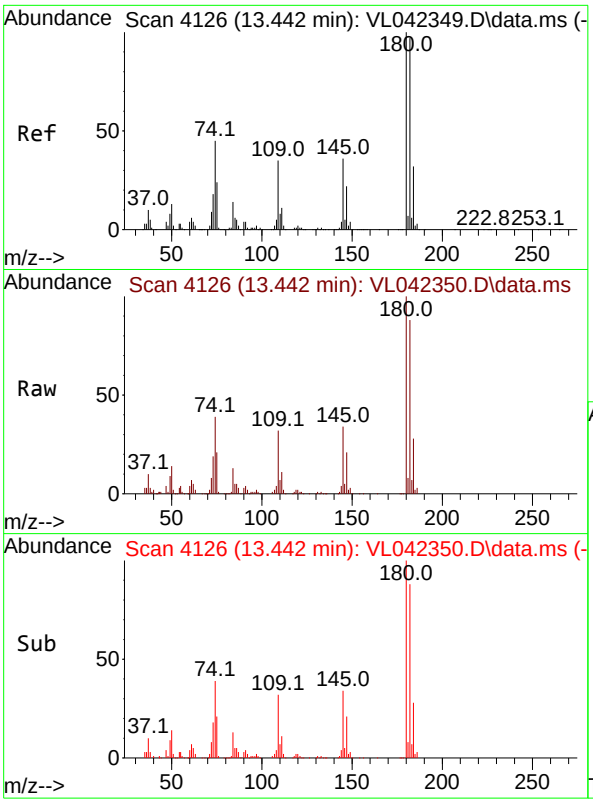




#80
Naphthalene,2-methyl-
Concen: 2.574 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:142 Resp: 119262

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 84.7 | 66.8 | 100.2 |
| 115 | 42.2 | 33.4 | 50.2 |



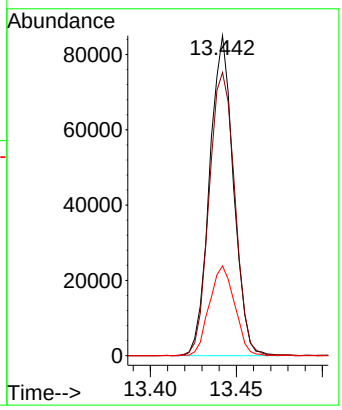



#81
1,2,4-Trichlorobenzene
Concen: 2.353 ppbv
RT: 13.442 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC002

Tgt Ion:180 Resp: 82156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.1 | 76.8 | 115.2 |
| 184 | 29.8 | 24.6 | 36.8 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042351.D
Acq On : 17 Apr 2025 10:48
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Quant Time: Apr 18 01:27:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 2.791 | 49 | 124177 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.962 | 114 | 359907 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.885 | 117 | 329090 | 10.000 | ppbv | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95 | 269087 | 9.950 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 99.500% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.499 | 85 | 22816 | 1.040 | ppbv | | 93 |
| 3) Chlorodifluoromethane | 1.476 | 51 | 20573 | 0.985 | ppbv | | 97 |
| 4) Chloromethane | 1.535 | 50 | 9008 | 1.038 | ppbv | | 99 |
| 5) Vinyl Chloride | 1.580 | 62 | 8807 | 0.932 | ppbv | | 98 |
| 6) Bromomethane | 1.671 | 94 | 4099 | 1.001 | ppbv | | 91 |
| 7) Chloroethane | 1.706 | 64 | 3559 | 1.041 | ppbv | | 90 |
| 8) Dichlorotetrafluoroethane | 1.554 | 85 | 19251 | 1.022 | ppbv | | 100 |
| 9) Propene | 1.486 | 41 | 9892 | 1.040 | ppbv | | 92 |
| 10) Heptane | 4.982 | 43 | 16193 | 0.633 | ppbv | # | 49 |
| 11) Trichlorofluoromethane | 1.878 | 101 | 22428 | 1.075 | ppbv | | 99 |
| 12) 1,1,2-Trichlorotrifluo... | 2.140 | 101 | 17865 | 1.047 | ppbv | | 98 |
| 13) Ethanol | 1.722 | 45 | 810 | 1.042 | ppbv | # | 43 |
| 14) Bromoethene | 1.784 | 108 | 6766 | 1.052 | ppbv | # | 89 |
| 15) Acetone | 1.839 | 43 | 23537 | 1.158 | ppbv | | 97 |
| 16) 1,3-Butadiene | 1.609 | 39 | 9495 | 0.995 | ppbv | | 96 |
| 17) tert-Butyl alcohol | 2.043 | 59 | 26477 | 1.051 | ppbv | # | 90 |
| 18) 1,1-Dichloroethene | 2.036 | 96 | 7890 | 0.962 | ppbv | | 94 |
| 19) Isopropyl Alcohol | 1.888 | 45 | 12175 | 1.078 | ppbv | # | 39 |
| 20) Methylene Chloride | 2.062 | 84 | 9046 | 1.136 | ppbv | | 87 |
| 21) Allyl Chloride | 2.098 | 41 | 15057 | 1.073 | ppbv | | 91 |
| 22) trans-1,2-Dichloroethene | 2.344 | 96 | 9421 | 1.038 | ppbv | | 96 |
| 23) Vinyl Acetate | 2.467 | 43 | 9234 | 1.122 | ppbv | # | 90 |
| 24) 1,1-Dichloroethane | 2.409 | 63 | 18236 | 1.058 | ppbv | | 99 |
| 25) Ethyl Acetate | 2.842 | 43 | 51494 | 1.027 | ppbv | # | 97 |
| 26) Hexane | 2.826 | 57 | 21350 | 1.053 | ppbv | | 95 |
| 27) Carbon Disulfide | 2.153 | 76 | 20739 | 0.955 | ppbv | # | 1 |
| 28) Methyl tert-Butyl Ether | 2.444 | 73 | 14164 | 1.066 | ppbv | # | 85 |
| 29) Chloroform | 2.852 | 83 | 28973 | 1.011 | ppbv | | 100 |
| 30) Cyclohexane | 3.862 | 84 | 8430 | 0.516 | ppbv | # | 1 |
| 31) cis-1,2-Dichloroethene | 2.723 | 61 | 19904 | 1.032 | ppbv | | 97 |
| 32) 1,1,1-Trichloroethane | 3.376 | 97 | 31653 | 1.030 | ppbv | | 98 |
| 34) 2-Butanone | 2.564 | 43 | 29735 | 1.045 | ppbv | | 99 |
| 35) Carbon Tetrachloride | 3.768 | 117 | 29875 | 0.917 | ppbv | | 94 |
| 36) Benzene | 3.661 | 78 | 38707 | 0.997 | ppbv | | 95 |
| 37) 1,2-Dichloroethane | 3.224 | 62 | 23284 | 0.999 | ppbv | | 97 |
| 38) Trichloroethene | 4.551 | 130 | 16119 | 0.947 | ppbv | | 96 |
| 39) 1,2-Dichloropropane | 4.318 | 63 | 14866 | 1.027 | ppbv | | 96 |
| 40) 1,4-Dioxane | 4.603 | 88 | 967 | 0.123 | ppbv | # | 1 |
| 41) Tetrahydrofuran | 3.062 | 42 | 17259 | 1.049 | ppbv | | 96 |
| 42) Bromodichloromethane | 4.490 | 83 | 32721 | 1.009 | ppbv | # | 98 |
| 43) Methyl Methacrylate | 4.885 | 69 | 13084 | 0.751 | ppbv | # | 47 |
| 44) 2,2,4-Trimethylpentane | 4.648 | 57 | 28653 | 0.427 | ppbv | # | 21 |
| 45) t-1,3-Dichloropropene | 6.416 | 75 | 11763 | 0.658 | ppbv | | 99 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042351.D
Acq On : 17 Apr 2025 10:48
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Quant Time: Apr 18 01:27:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

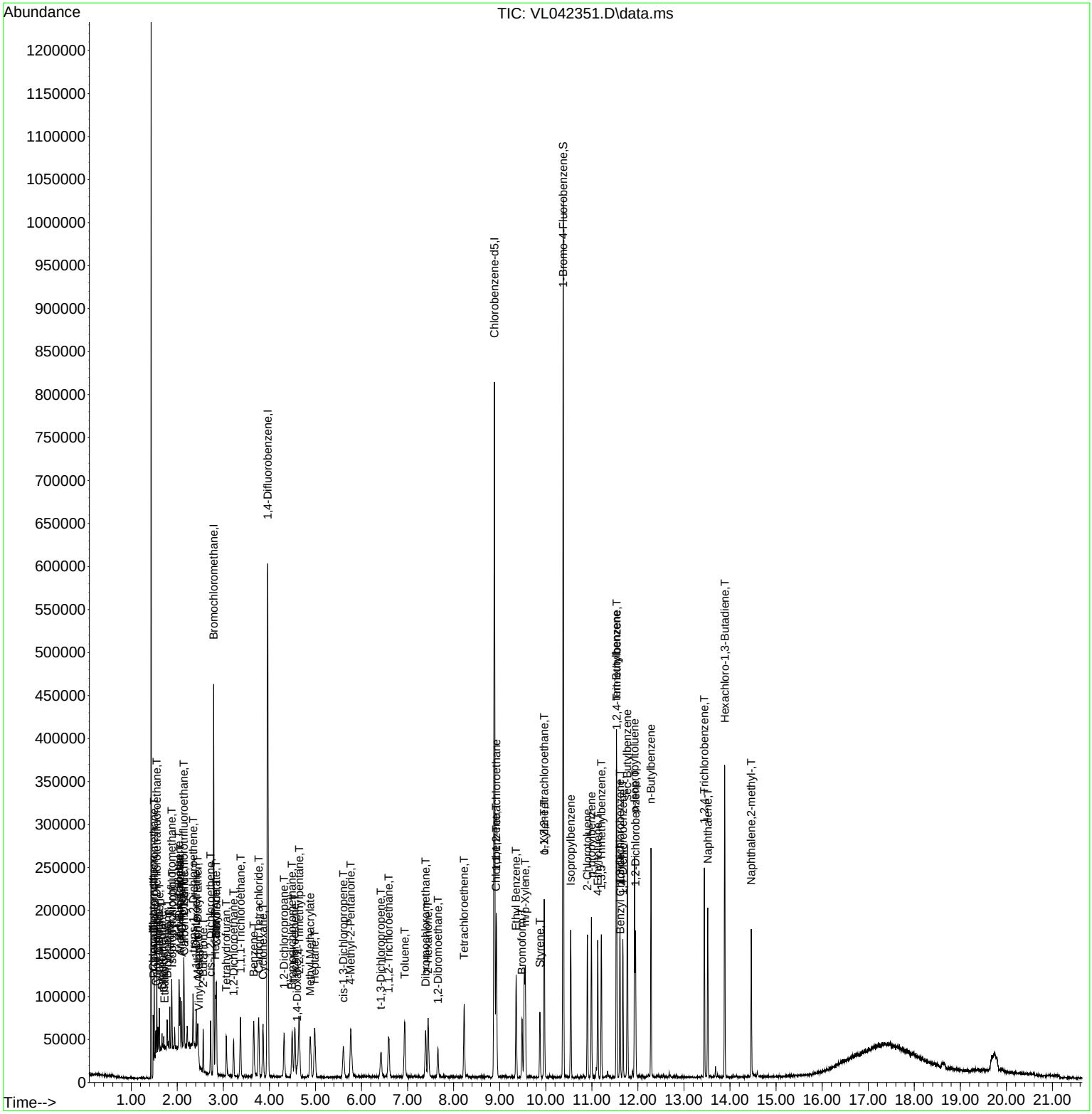
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.603 | 75 | 13028 | 0.596 | ppbv | | 95 |
| 47) 1,1,2-Trichloroethane | 6.587 | 97 | 7690 | 0.521 | ppbv | # | 78 |
| 48) Dibromochloromethane | 7.390 | 129 | 25948 | 0.997 | ppbv | | 100 |
| 49) Bromoform | 9.484 | 173 | 22413 | 0.984 | ppbv | | 98 |
| 50) 4-Methyl-2-Pentanone | 5.765 | 43 | 49725 | 1.049 | ppbv | | 97 |
| 51) 2-Hexanone | 7.445 | 43 | 47178 | 1.103 | ppbv | | 99 |
| 52) Tetrachloroethene | 8.228 | 164 | 14154 | 0.943 | ppbv | | 93 |
| 53) Toluene | 6.940 | 91 | 46611 | 1.001 | ppbv | | 100 |
| 54) 1,2-Dibromoethane | 7.658 | 107 | 21780 | 1.036 | ppbv | | 93 |
| 56) 1,1,1,2-Tetrachloroethane | 8.927 | 131 | 21052 | 1.057 | ppbv | | 95 |
| 57) Chlorobenzene | 8.921 | 112 | 35113 | 1.026 | ppbv | # | 95 |
| 58) Ethyl Benzene | 9.354 | 91 | 68703 | 1.054 | ppbv | | 96 |
| 59) m/p-Xylene | 9.552 | 91 | 48794 | 0.926 | ppbv | # | 32 |
| 60) o-Xylene | 9.966 | 91 | 55831 | 1.056 | ppbv | | 99 |
| 61) Styrene | 9.872 | 104 | 25544 | 1.012 | ppbv | | 100 |
| 62) Isopropylbenzene | 10.542 | 105 | 81286 | 1.047 | ppbv | | 100 |
| 63) 1,1,2,2-Tetrachloroethane | 9.966 | 83 | 32410 | 0.943 | ppbv | | 99 |
| 64) n-propylbenzene | 10.989 | 120 | 19898 | 1.019 | ppbv | | 90 |
| 65) tert-Butylbenzene | 11.533 | 119 | 77598 | 1.087 | ppbv | | 92 |
| 66) Benzyl Chloride | 11.617 | 91 | 7864 | 1.003 | ppbv | # | 91 |
| 67) sec-Butylbenzene | 11.769 | 105 | 105919 | 1.067 | ppbv | | 97 |
| 69) p-Isopropyltoluene | 11.928 | 119 | 92733 | 1.075 | ppbv | | 97 |
| 70) n-Butylbenzene | 12.284 | 91 | 96306 | 1.072 | ppbv | | 99 |
| 71) 2-Chlorotoluene | 10.905 | 91 | 63321 | 1.040 | ppbv | | 99 |
| 72) 4-Ethyltoluene | 11.128 | 105 | 69698 | 1.078 | ppbv | | 99 |
| 73) 1,3,5-Trimethylbenzene | 11.206 | 105 | 60927 | 1.067 | ppbv | | 99 |
| 74) 1,2,4-Trimethylbenzene | 11.539 | 105 | 73888 | 1.108 | ppbv | | 95 |
| 75) 1,3-Dichlorobenzene | 11.610 | 146 | 36877 | 1.064 | ppbv | | 98 |
| 76) 1,4-Dichlorobenzene | 11.675 | 146 | 36692 | 1.053 | ppbv | | 98 |
| 77) 1,2-Dichlorobenzene | 11.950 | 146 | 35977 | 1.068 | ppbv | | 97 |
| 78) Hexachloro-1,3-Butadiene | 13.886 | 225 | 37377 | 1.098 | ppbv | | 99 |
| 79) Naphthalene | 13.517 | 128 | 90710 | 1.138 | ppbv | | 99 |
| 80) Naphthalene,2-methyl- | 14.462 | 142 | 50487 | 1.111 | ppbv | | 98 |
| 81) 1,2,4-Trichlorobenzene | 13.442 | 180 | 36764 | 1.074 | ppbv | | 99 |

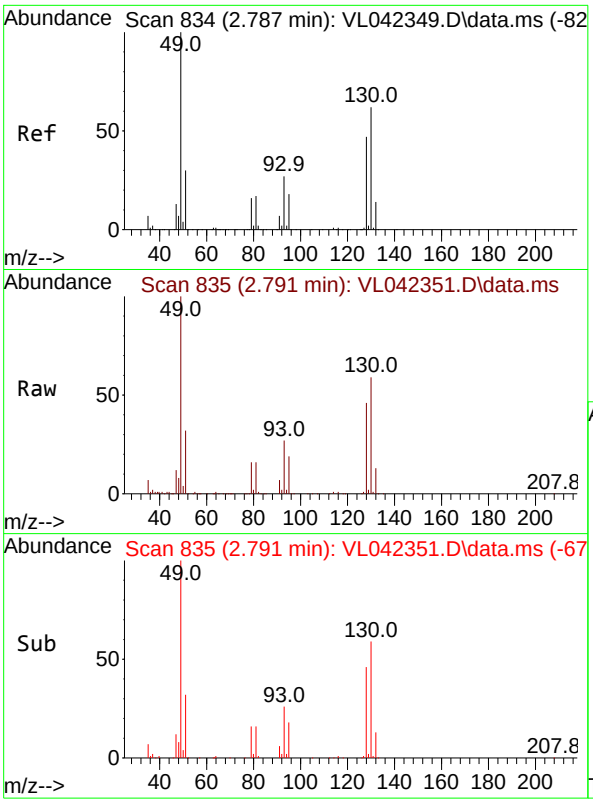
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042351.D
Acq On : 17 Apr 2025 10:48
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Quant Time: Apr 18 01:27:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration



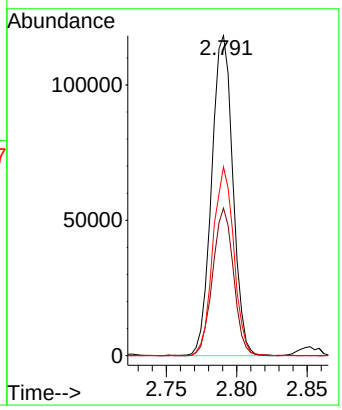


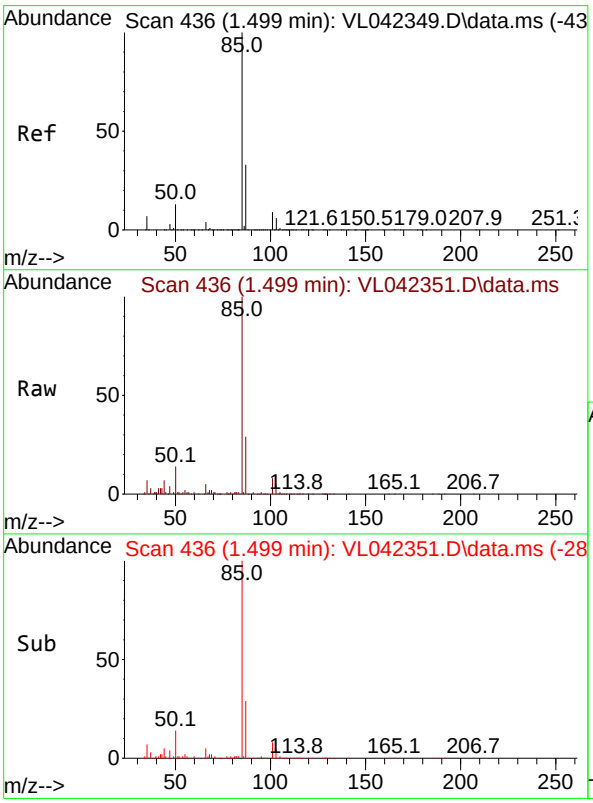

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 8
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion: 49 Resp: 124177

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 45.2 | 22.8 | 68.4 |
| 130 | 58.1 | 29.3 | 88.0 |

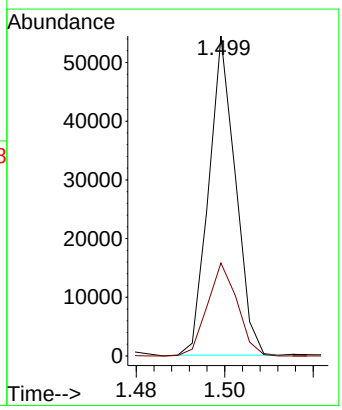


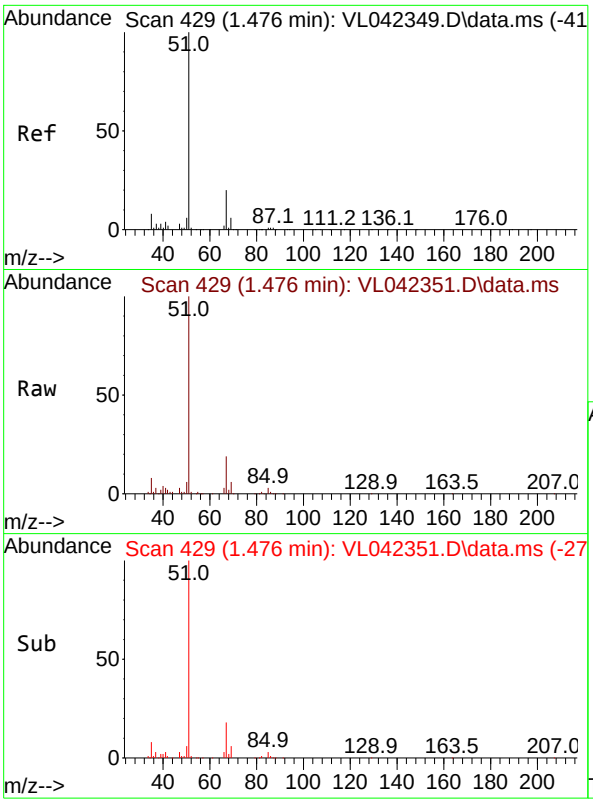




#2
Dichlorodifluoromethane
Concen: 1.040 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 85 Resp: 22816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 29.1 | 26.6 | 39.8 |



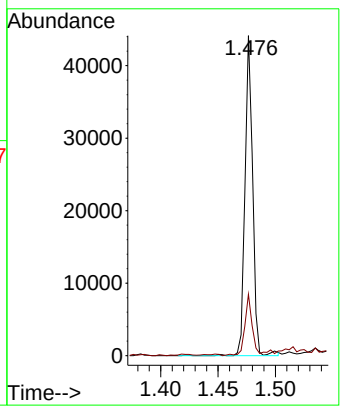


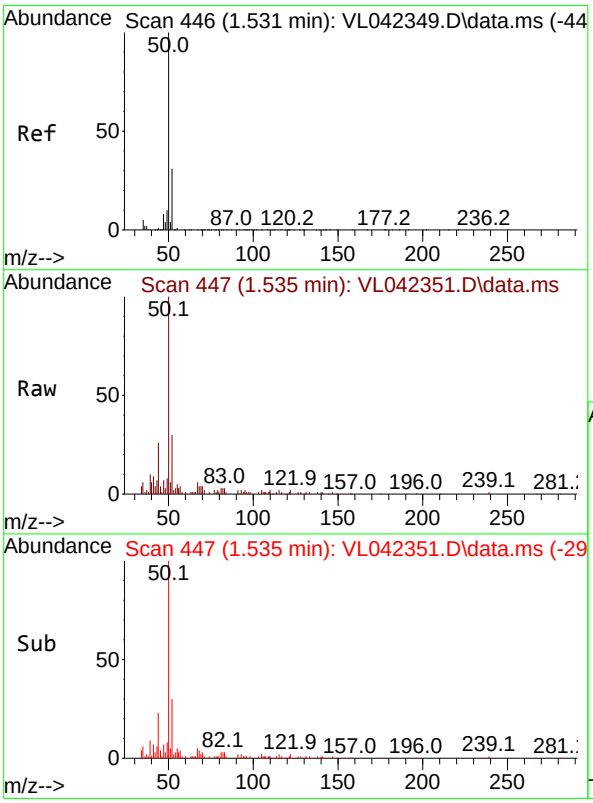

#3
Chlorodifluoromethane
Concen: 0.985 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion: 51 Resp: 20573

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 19.1 | 16.2 | 24.4 |

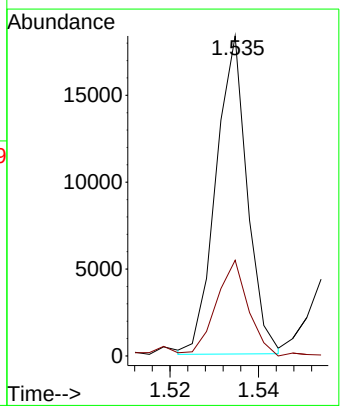


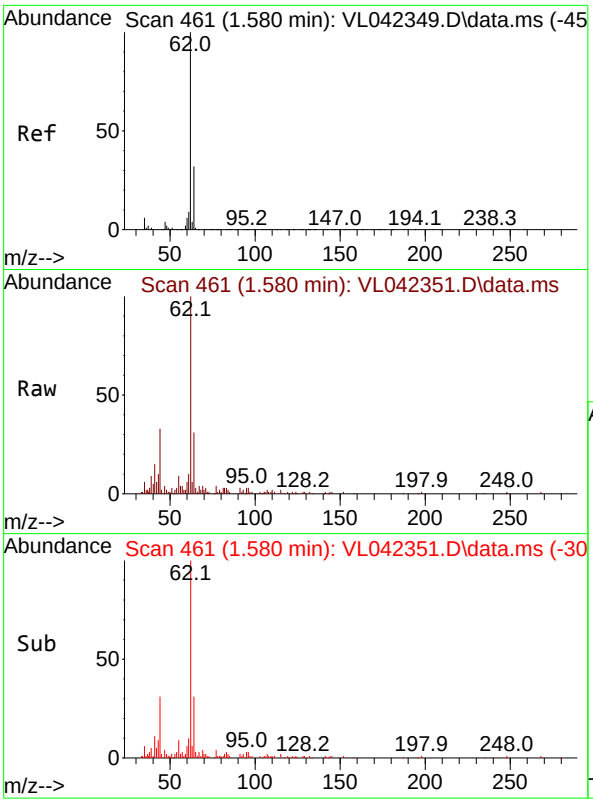




#4
Chloromethane
Concen: 1.038 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 50 Resp: 9008

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 30.4 | 24.7 | 37.1 |



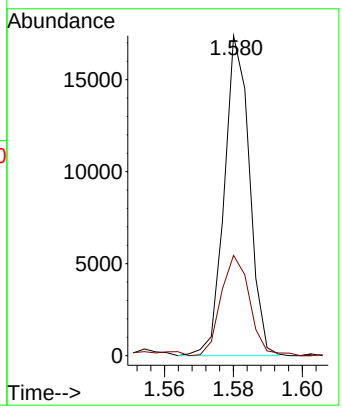


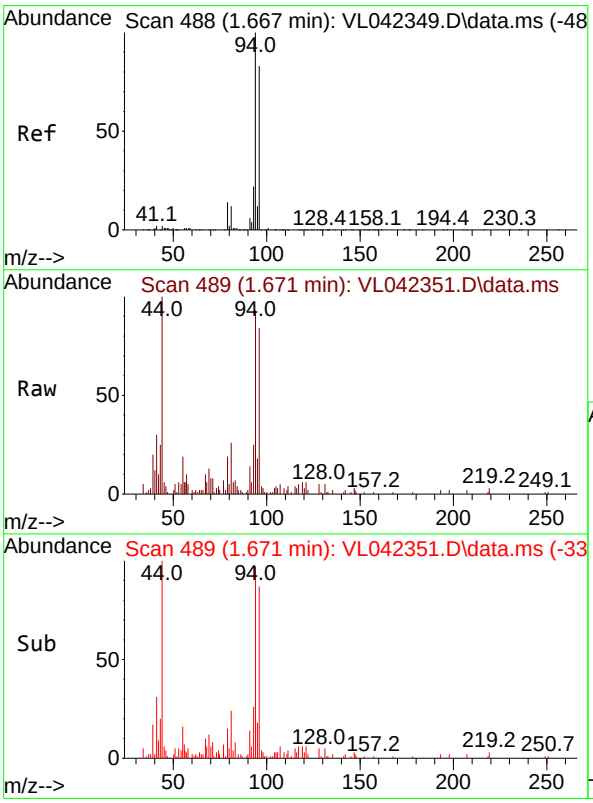

#5
Vinyl Chloride
Concen: 0.932 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion: 62 Resp: 8807

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 30.5 | 25.4 | 38.0 |

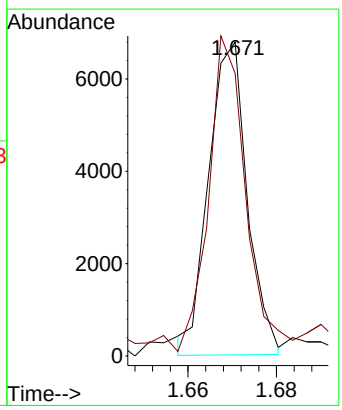


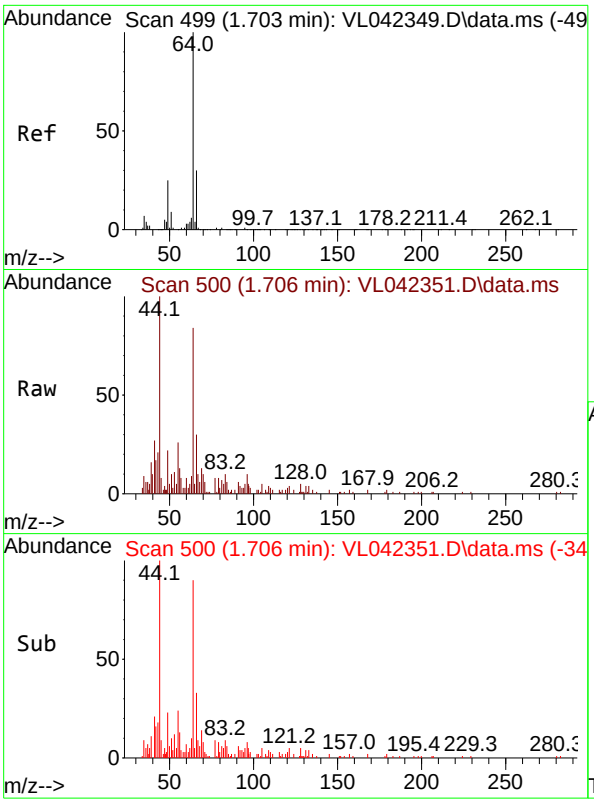




#6
Bromomethane
Concen: 1.001 ppbv
RT: 1.671 min Scan# 489
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 94 Resp: 4099

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 91.0 | 66.2 | 99.2 |



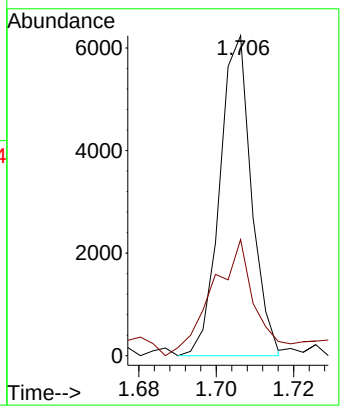


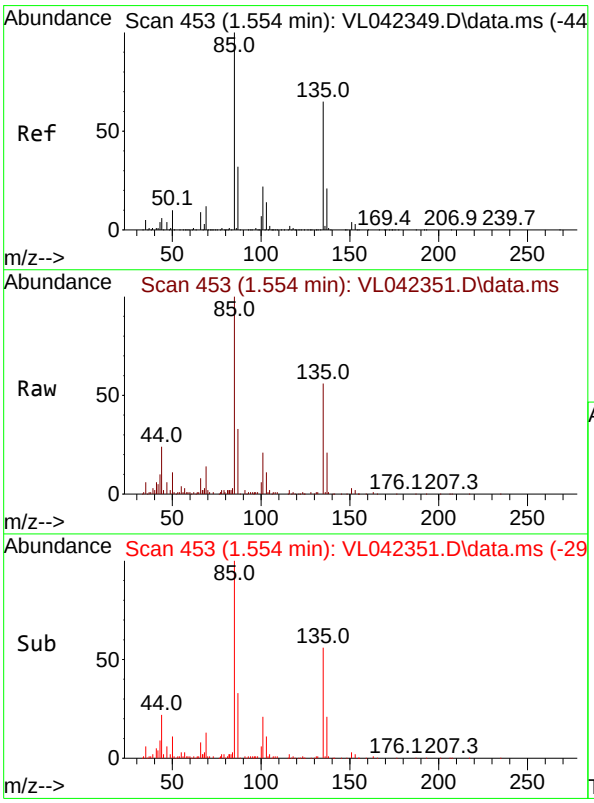

#7
Chloroethane
Concen: 1.041 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion: 64 Resp: 3559

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 36.3 | 24.6 | 37.0 |

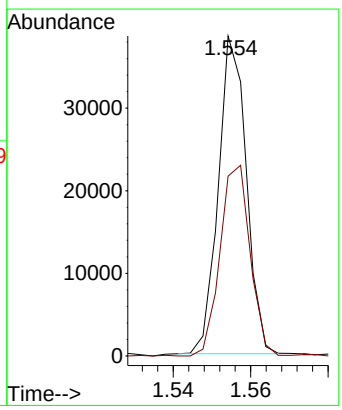


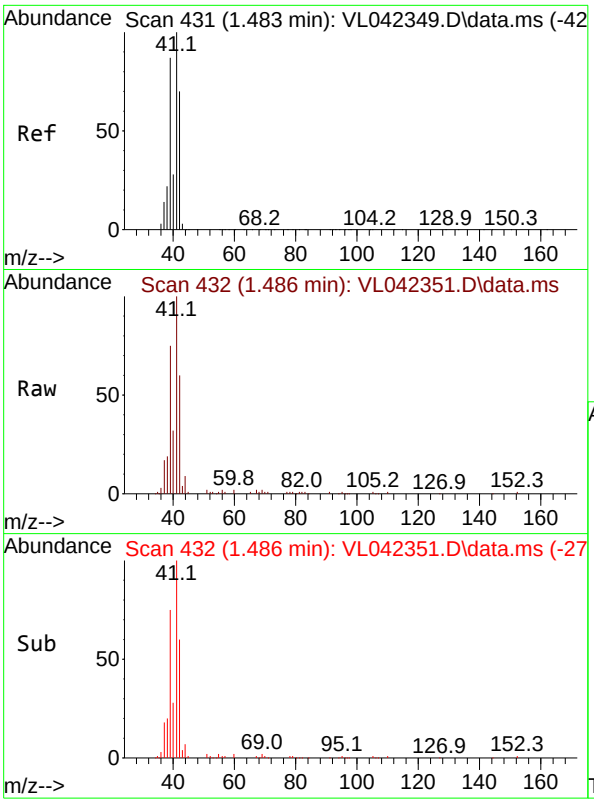




#8
Dichlorotetrafluoroethane
Concen: 1.022 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 85 Resp: 19251

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 65.2 | 52.2 | 78.2 |



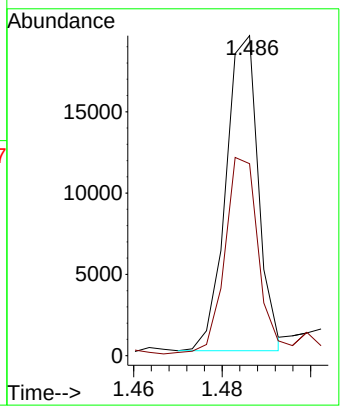


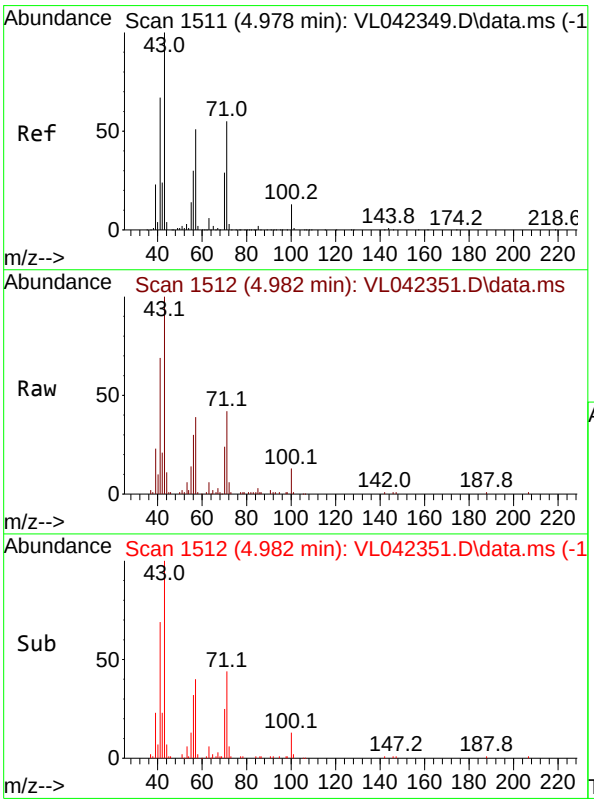

#9
Propene
Concen: 1.040 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion: 41 Resp: 9892

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 77.2 | 56.2 | 84.4 |

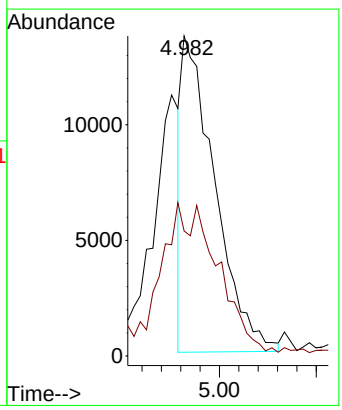


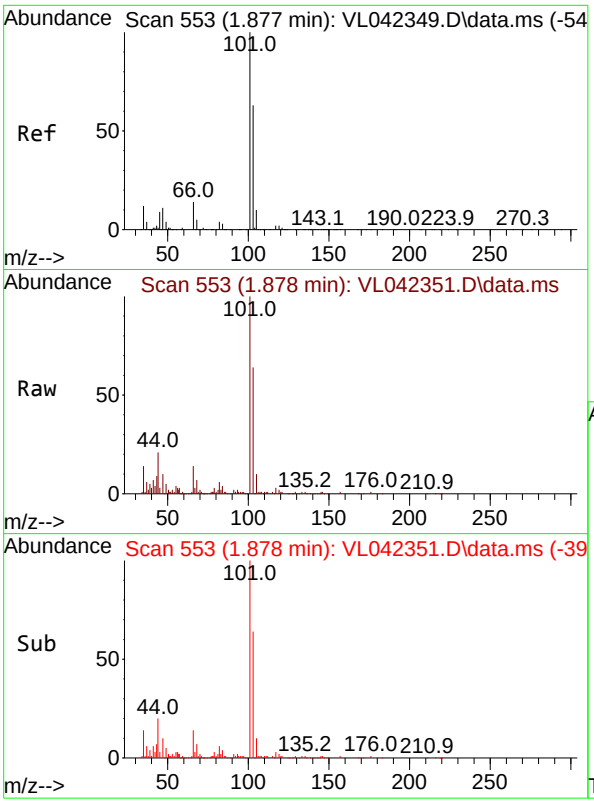




#10
Heptane
Concen: 0.633 ppbv
RT: 4.982 min Scan# 1512
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 43 Resp: 16193

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 84.7 | 39.9 | 59.9# |



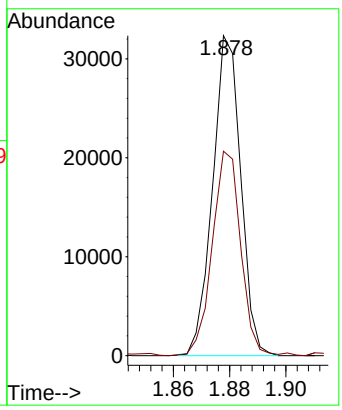


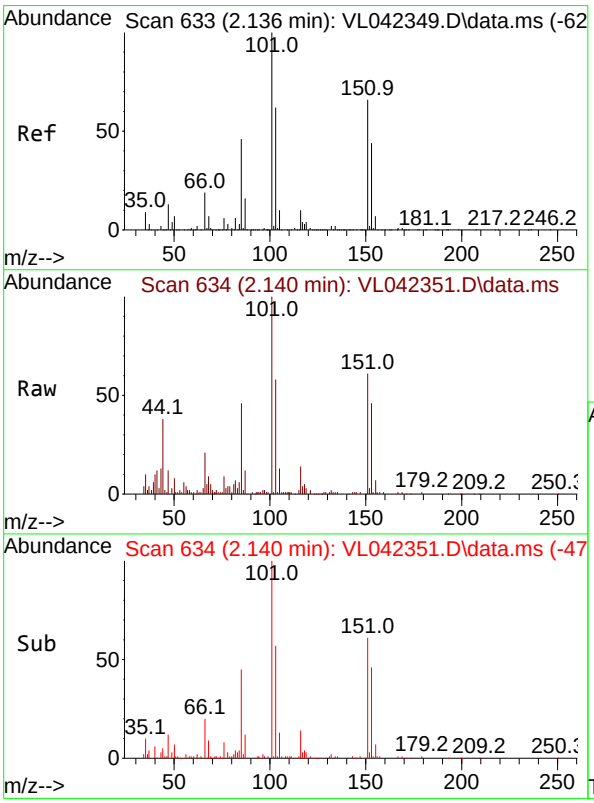

#11
Trichlorofluoromethane
Concen: 1.075 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion:101 Resp: 22428

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.6 | 50.1 | 75.1 |

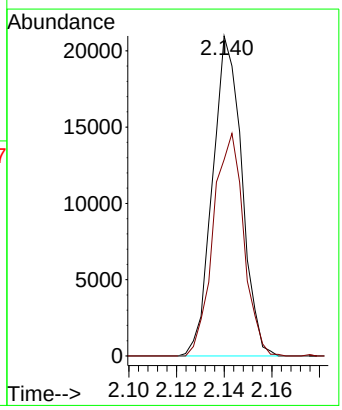


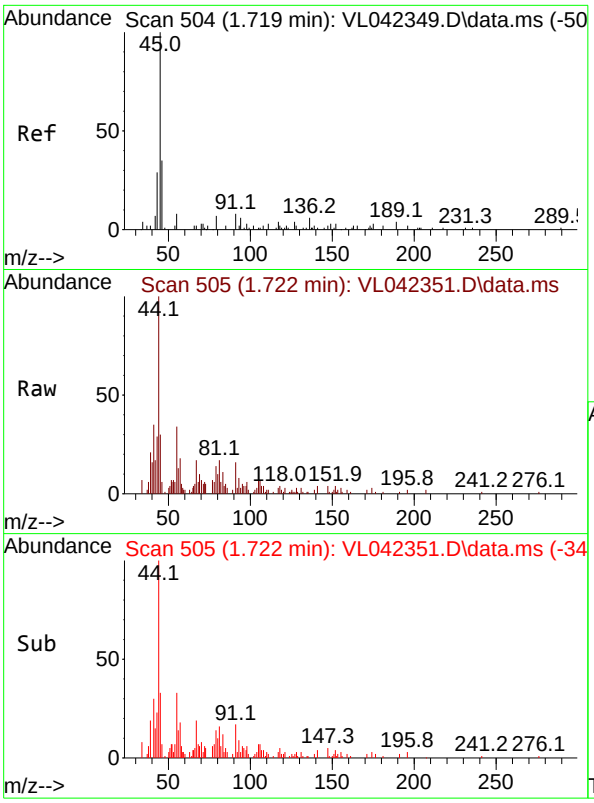




#12
1,1,2-Trichlorotrifluoroethane
Concen: 1.047 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:101 Resp: 17865

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 72.6 | 57.0 | 85.6 |



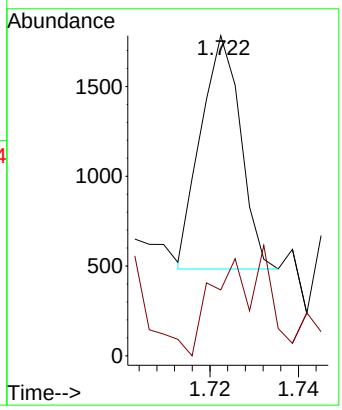


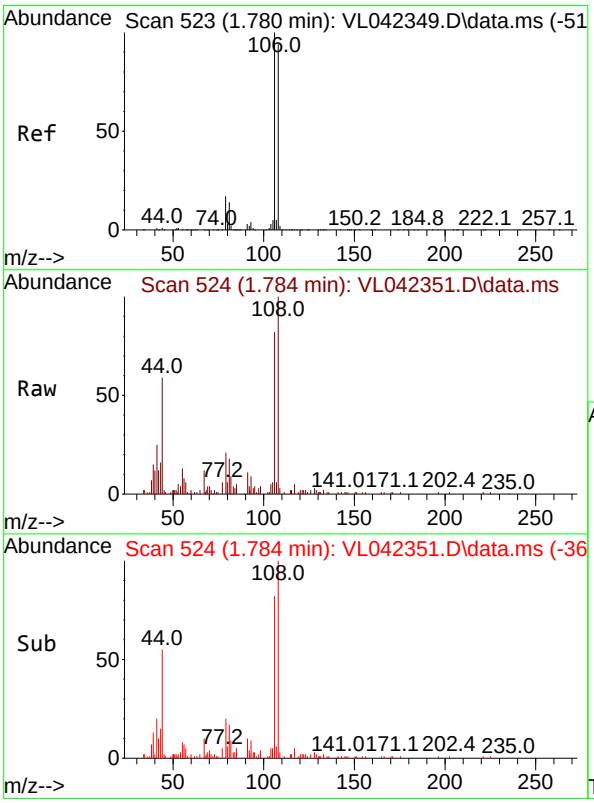

#13
Ethanol
Concen: 1.042 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion: 45 Resp: 810

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 95.8 | 21.9 | 87.7# |

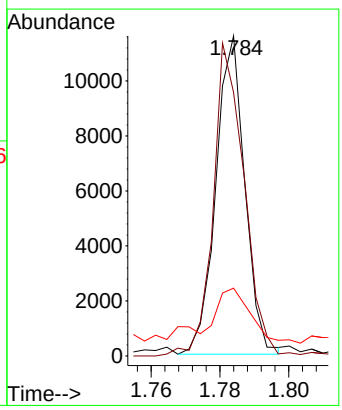


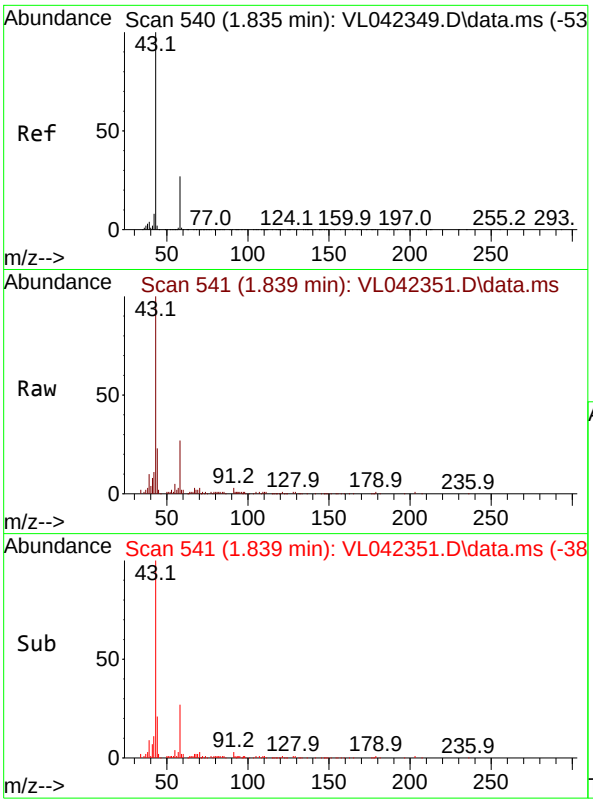




#14
Bromoethene
Concen: 1.052 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:108 Resp: 6766

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 106 | 104.7 | 85.9 | 128.9 |
| 79 | 45.4 | 13.9 | 20.9# |



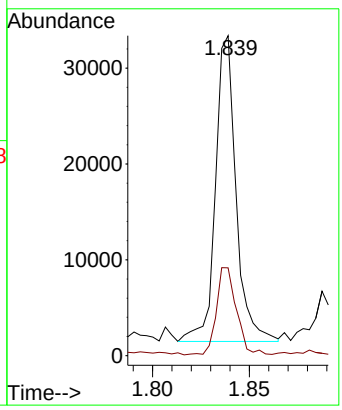


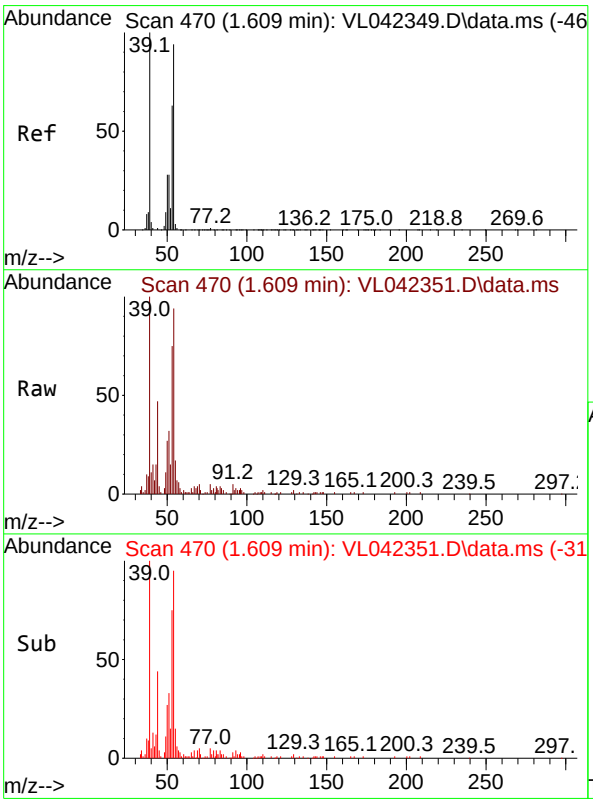

#15
Acetone
Concen: 1.158 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion: 43 Resp: 23537

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 29.4 | 22.4 | 33.6 |

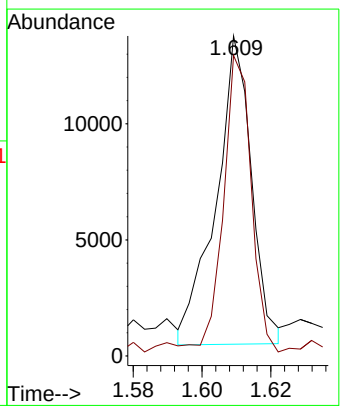


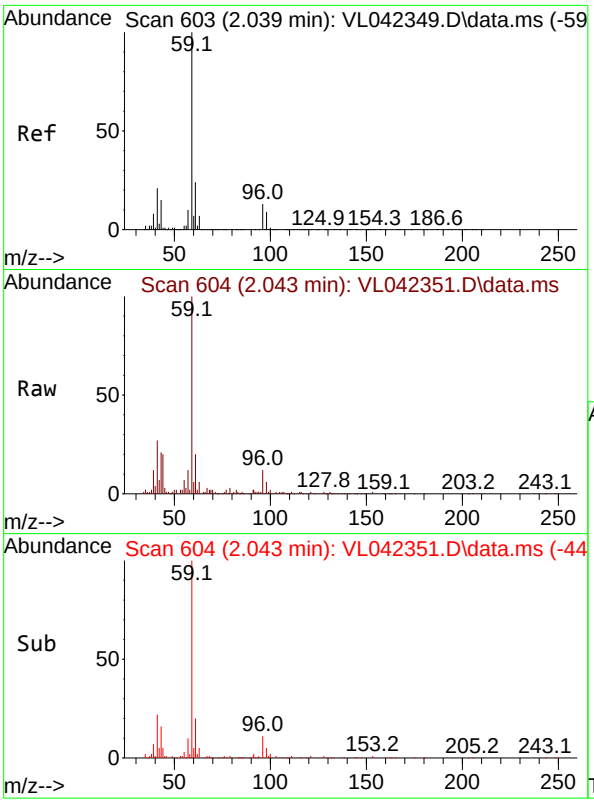




#16
1,3-Butadiene
Concen: 0.995 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 39 Resp: 9495

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 77.6 | 64.9 | 97.3 |



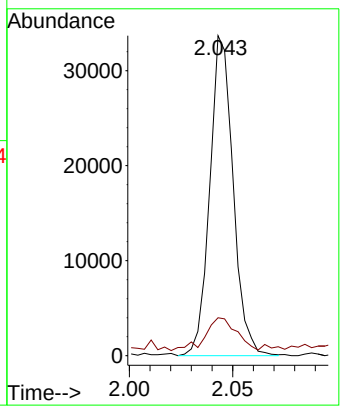


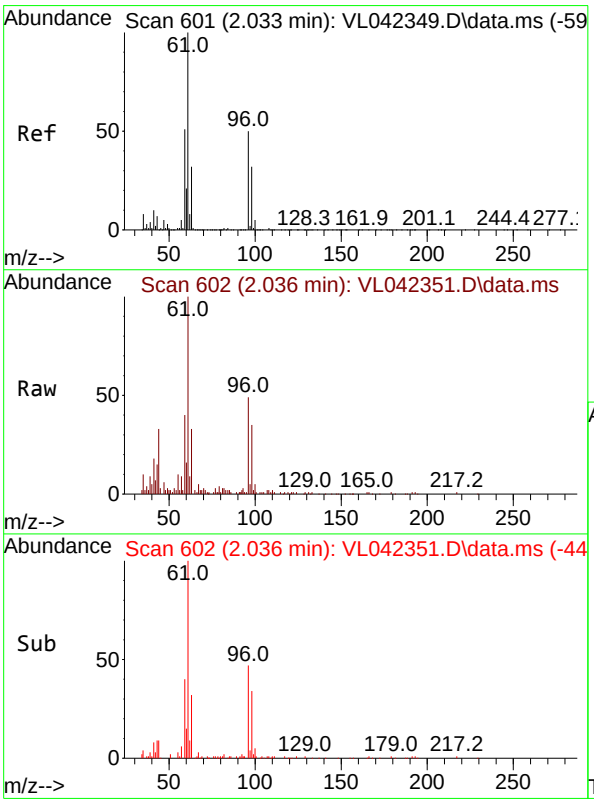

#17
tert-Butyl alcohol
Concen: 1.051 ppbv
RT: 2.043 min Scan# 6
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion: 59 Resp: 26477

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 14.6 | 8.7 | 13.1# |

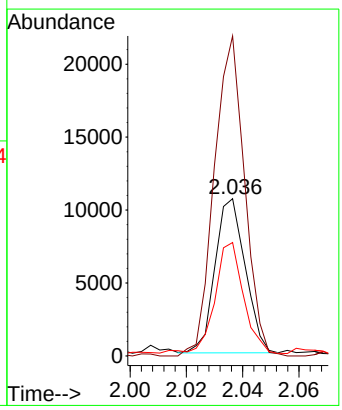


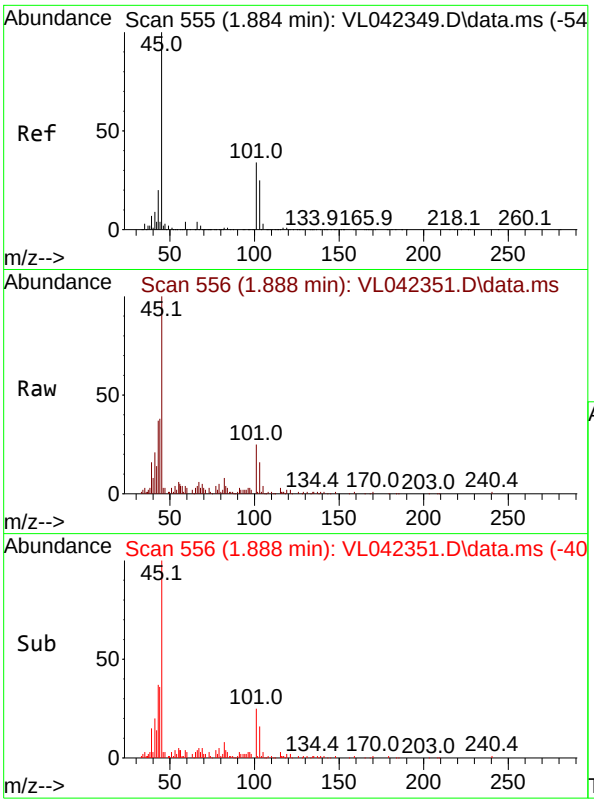




#18
1,1-Dichloroethene
Concen: 0.962 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 96 Resp: 7890

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 207.8 | 160.2 | 240.2 |
| 98 | 71.9 | 51.0 | 76.4 |



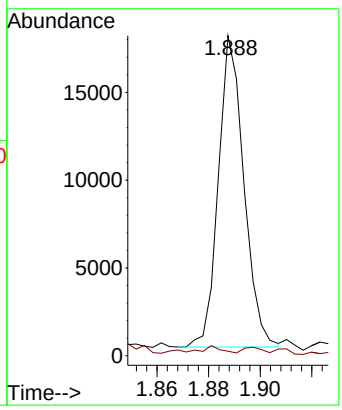


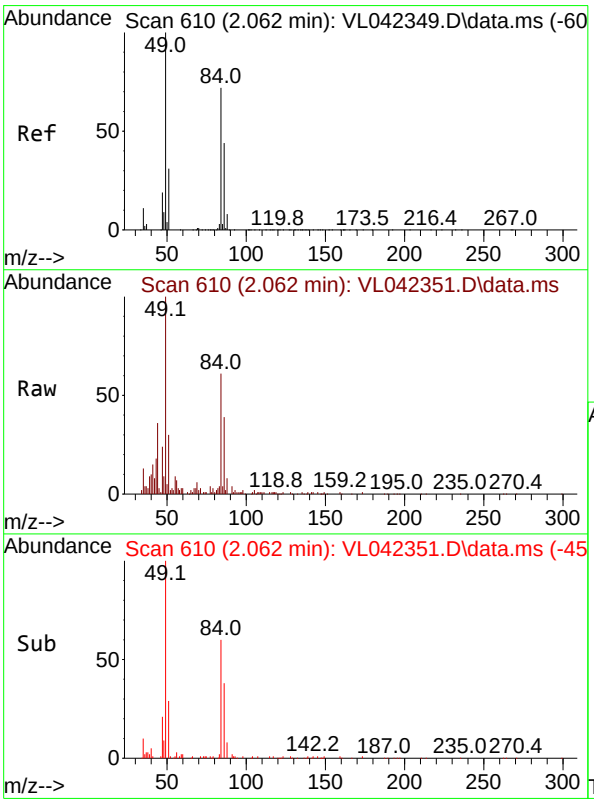

#19
Isopropyl Alcohol
Concen: 1.078 ppbv
RT: 1.888 min Scan# 5
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion: 45 Resp: 12175

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 3.8 | 34.5 | 51.7# |

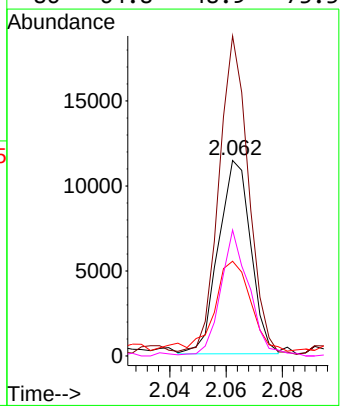


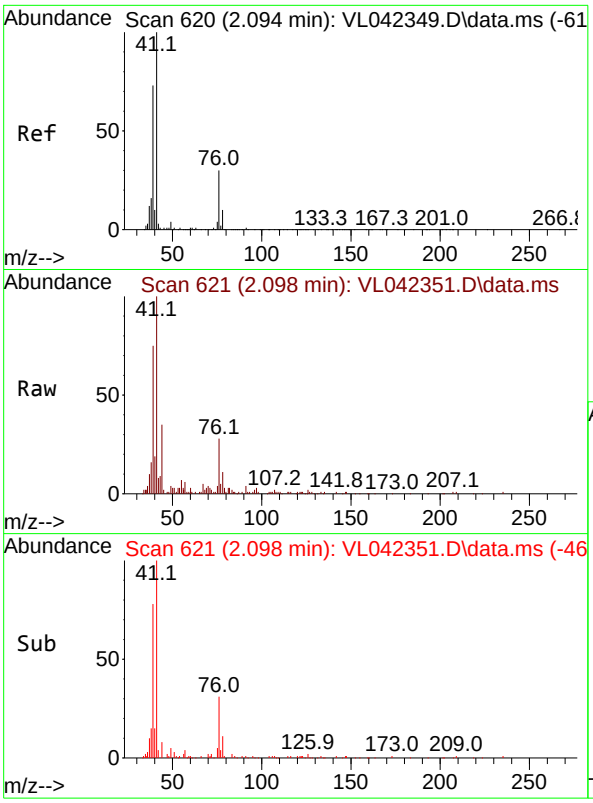




#20
Methylene Chloride
Concen: 1.136 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 84 Resp: 9046

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 164.4 | 111.6 | 167.4 |
| 51 | 44.4 | 35.1 | 52.7 |
| 86 | 64.8 | 48.9 | 73.3 |



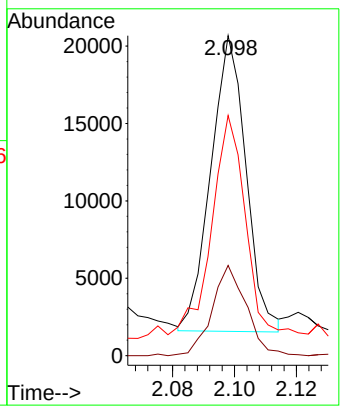


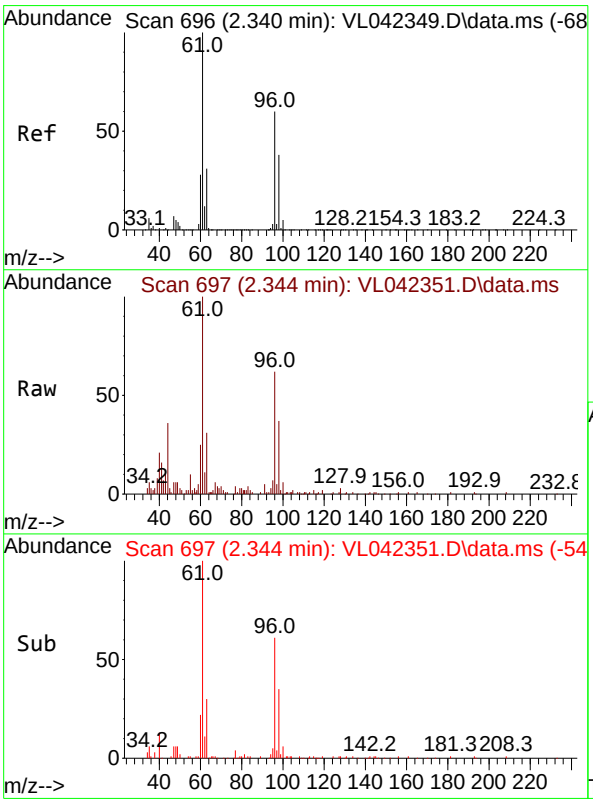

#21
Allyl Chloride
Concen: 1.073 ppbv
RT: 2.098 min Scan# 6
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion: 41 Resp: 15057

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 29.8 | 24.8 | 37.2 |
| 39 | 86.1 | 60.6 | 90.8 |

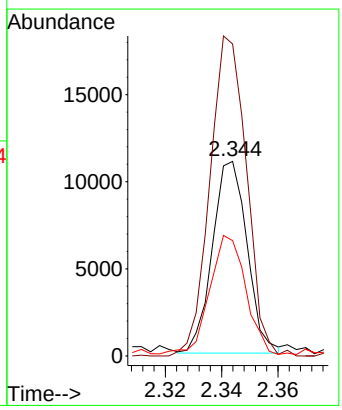


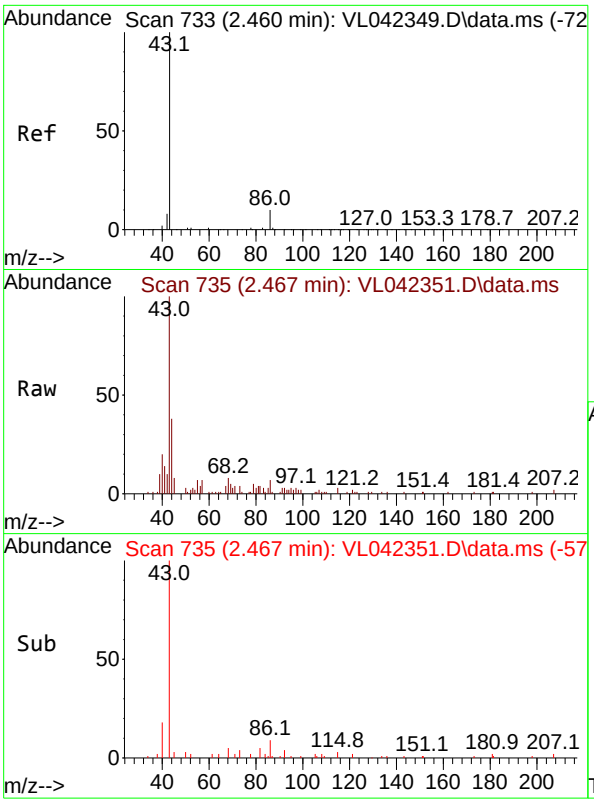




#22
trans-1,2-Dichloroethene
Concen: 1.038 ppbv
RT: 2.344 min Scan# 697
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 96 Resp: 9421

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 161.7 | 133.7 | 200.5 |
| 98 | 59.8 | 50.3 | 75.5 |



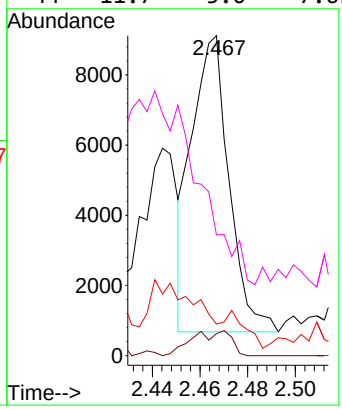


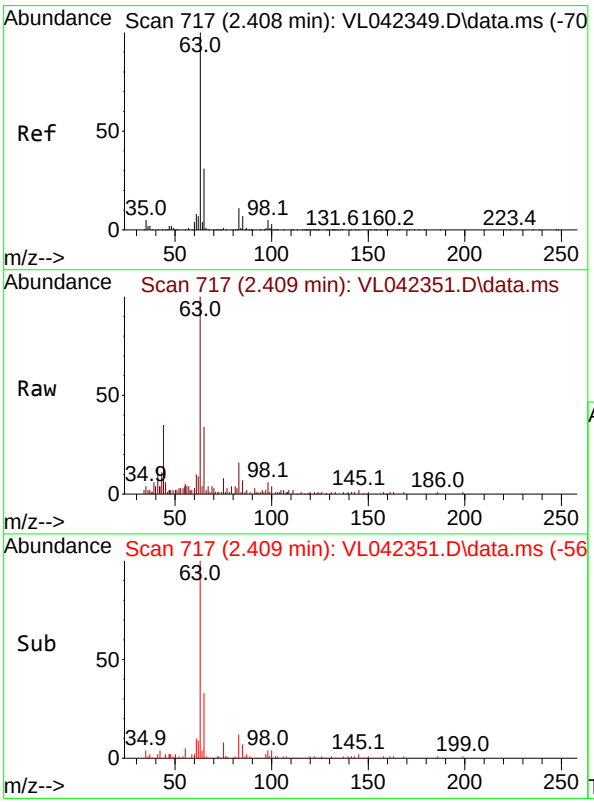

#23
Vinyl Acetate
Concen: 1.122 ppbv
RT: 2.467 min Scan# 7
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion: 43 Resp: 9234

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 7.4 | 6.5 | 9.7 |
| 42 | 4.6 | 7.8 | 11.8# |
| 44 | 11.7 | 5.0 | 7.6# |

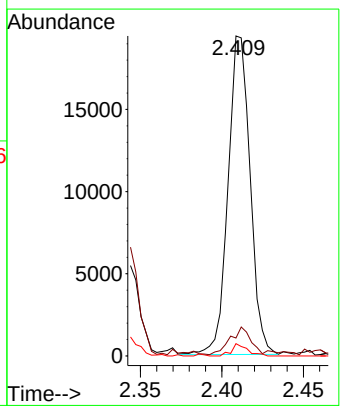


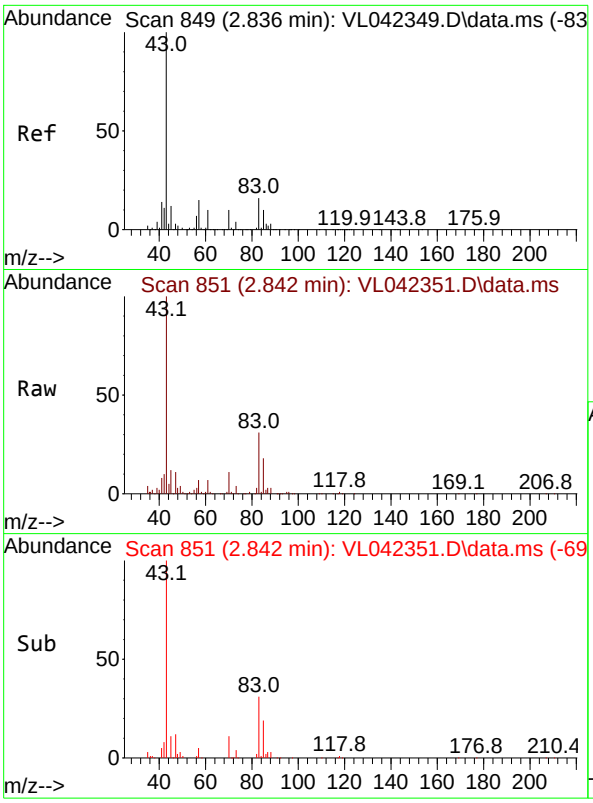




#24
1,1-Dichloroethane
Concen: 1.058 ppbv
RT: 2.409 min Scan# 717
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 63 Resp: 18236

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 4.7 | 2.3 | 6.8 |
| 100 | 3.9 | 1.6 | 4.8 |



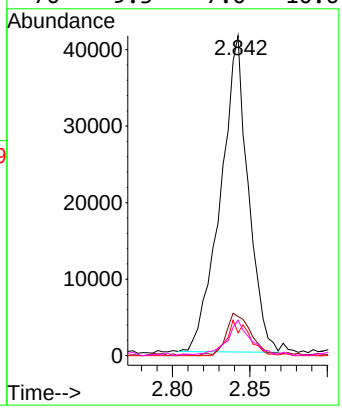


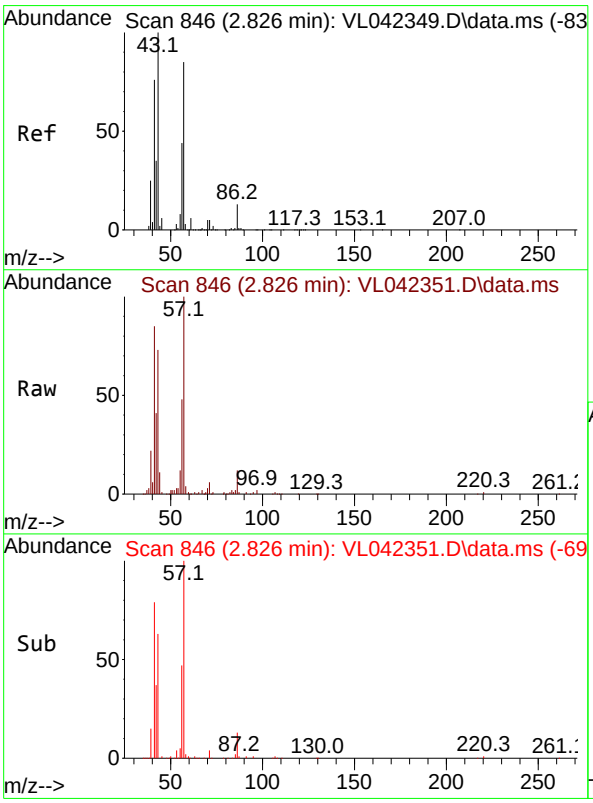

#25
Ethyl Acetate
Concen: 1.027 ppbv
RT: 2.842 min Scan# 8
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion: 43 Resp: 51494

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 13.1 | 8.3 | 12.5# |
| 61 | 9.0 | 7.3 | 10.9 |
| 70 | 9.3 | 7.0 | 10.6 |

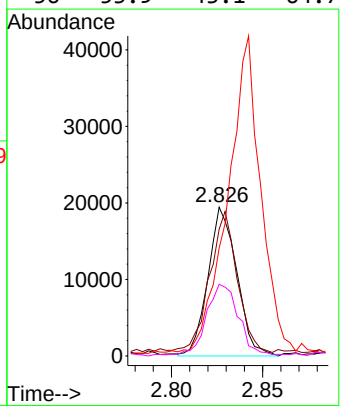


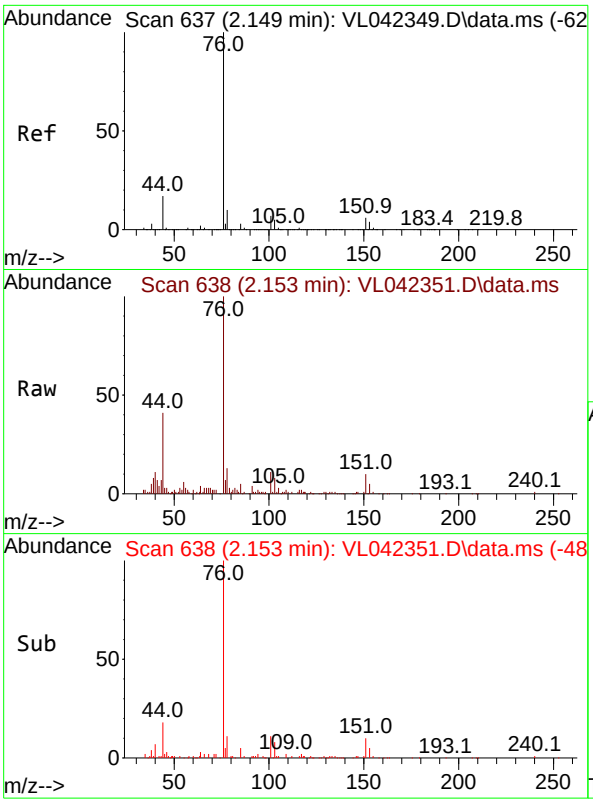




#26
Hexane
Concen: 1.053 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 57 Resp: 21350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 95.3 | 77.9 | 116.9 |
| 43 | 247.5 | 208.4 | 312.6 |
| 56 | 53.9 | 43.1 | 64.7 |



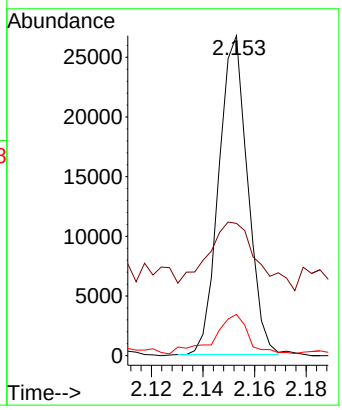


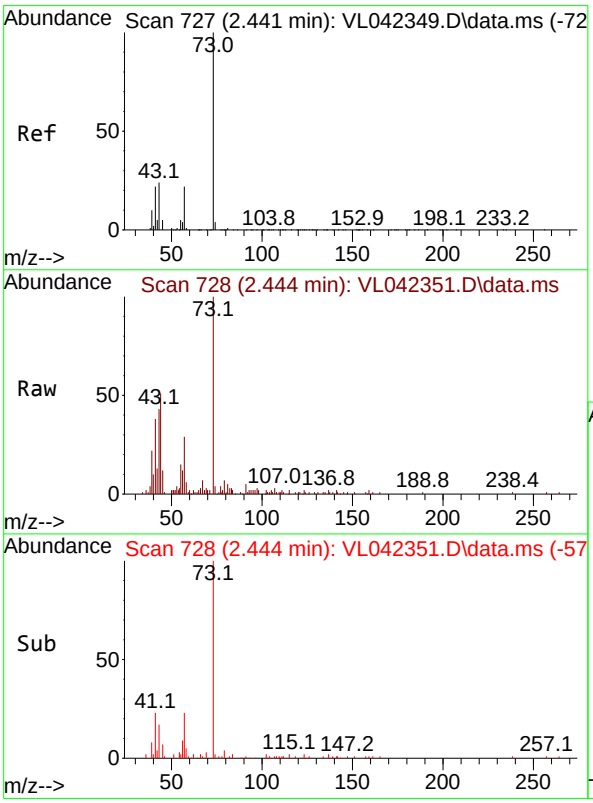

#27
Carbon Disulfide
Concen: 0.955 ppbv
RT: 2.153 min Scan# 6
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion: 76 Resp: 20739

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 93.1 | 15.5 | 23.3# |
| 78 | 19.8 | 9.3 | 13.9# |

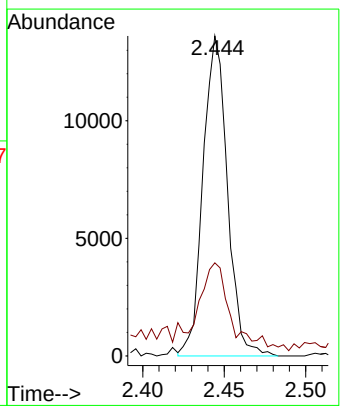


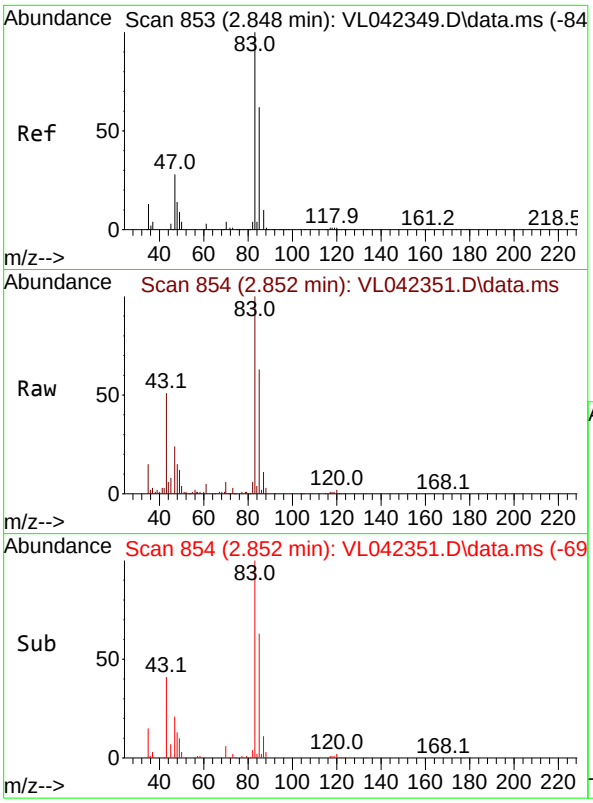




#28
Methyl tert-Butyl Ether
Concen: 1.066 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 73 Resp: 14164

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 34.2 | 21.3 | 31.9# |



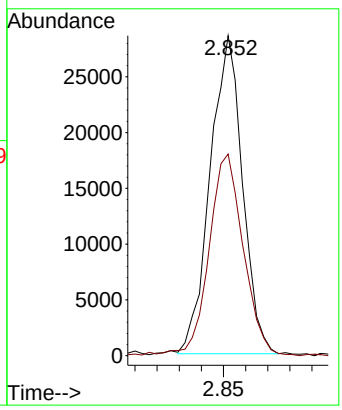


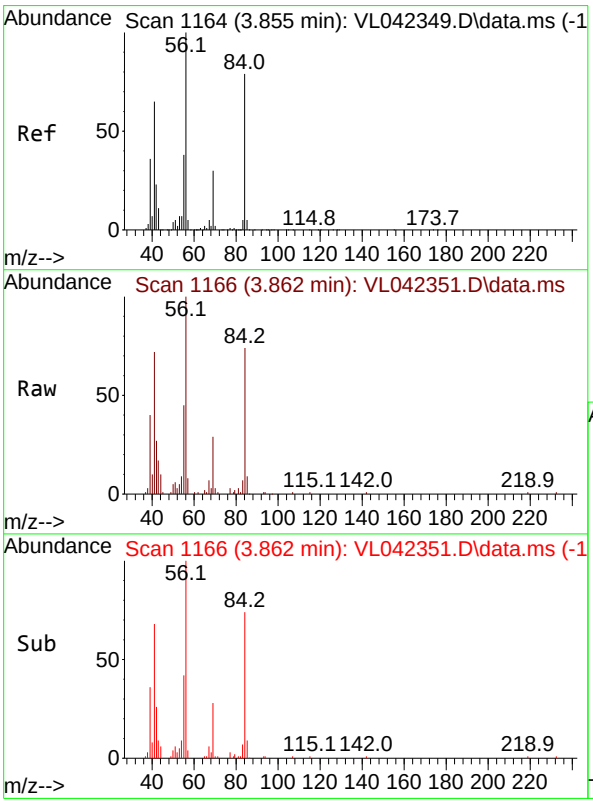

#29
Chloroform
Concen: 1.011 ppbv
RT: 2.852 min Scan# 8
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion: 83 Resp: 28973

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.6 | 50.0 | 75.0 |

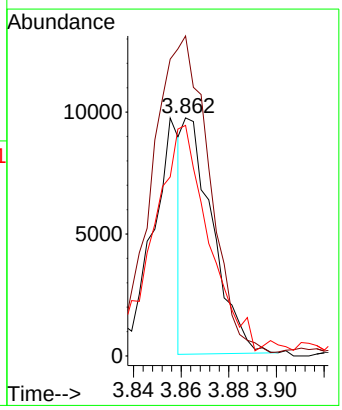


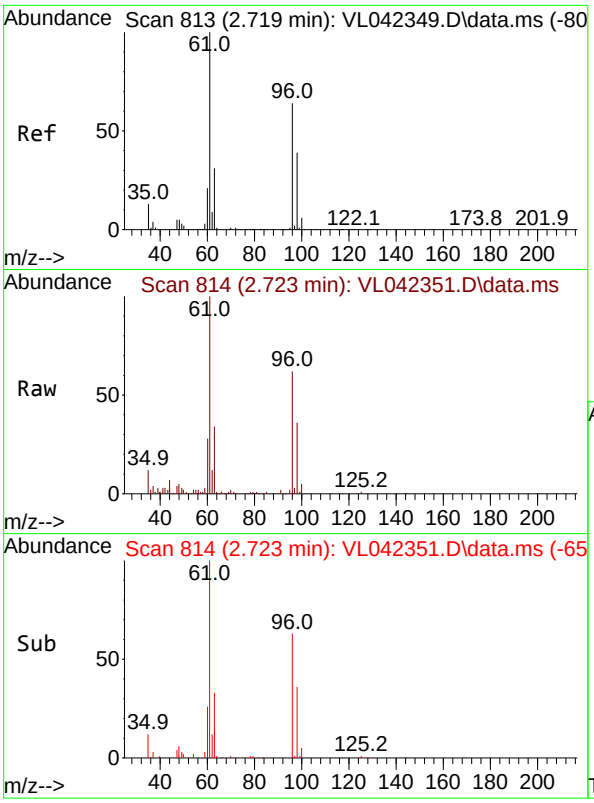




#30
Cyclohexane
Concen: 0.516 ppbv
RT: 3.862 min Scan# 1166
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 84 Resp: 8430

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 263.5 | 101.0 | 151.4# |
| 41 | 167.0 | 67.4 | 101.0# |



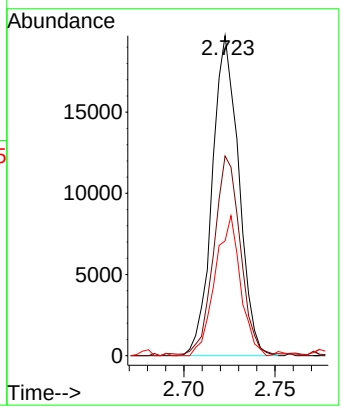


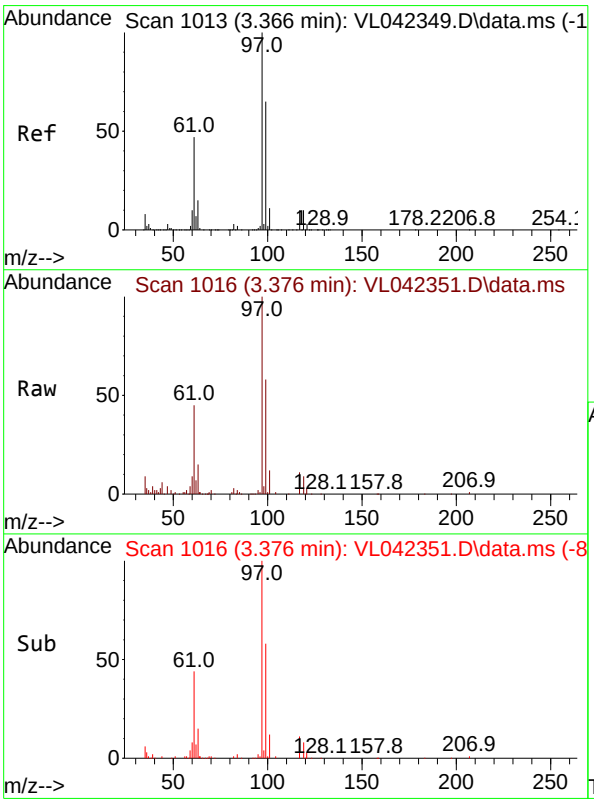

#31
cis-1,2-Dichloroethene
Concen: 1.032 ppbv
RT: 2.723 min Scan# 8
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion: 61 Resp: 19904

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 61.9 | 50.8 | 76.2 |
| 98 | 35.9 | 30.9 | 46.3 |

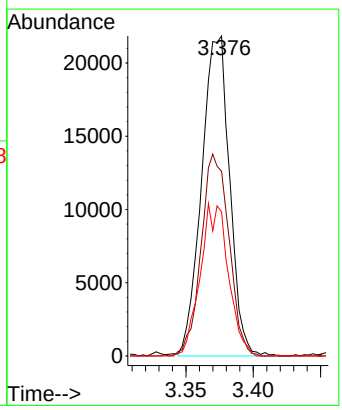


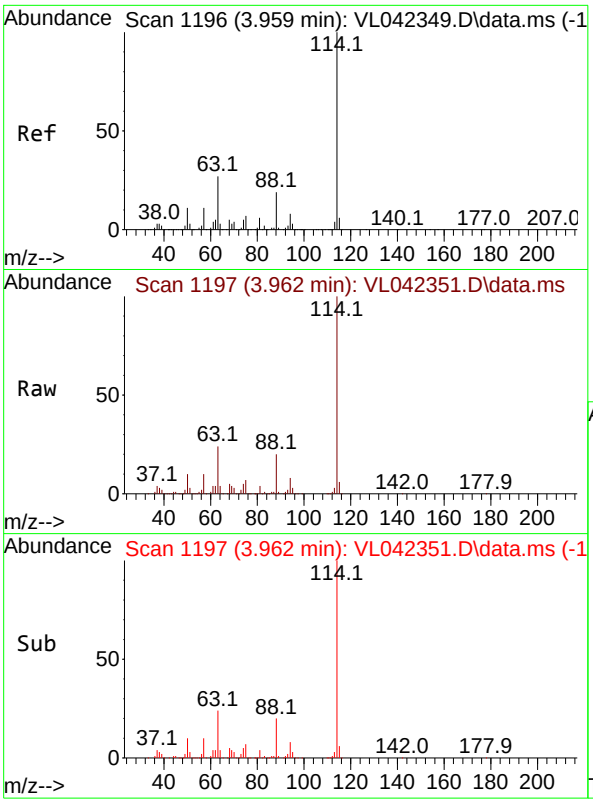




#32
1,1,1-Trichloroethane
Concen: 1.030 ppbv
RT: 3.376 min Scan# 1016
Delta R.T. 0.010 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 97 Resp: 31653

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 62.4 | 51.0 | 76.4 |
| 61 | 47.6 | 38.8 | 58.2 |



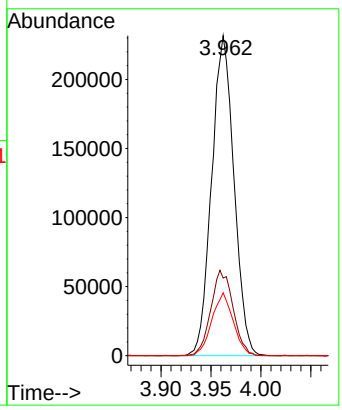


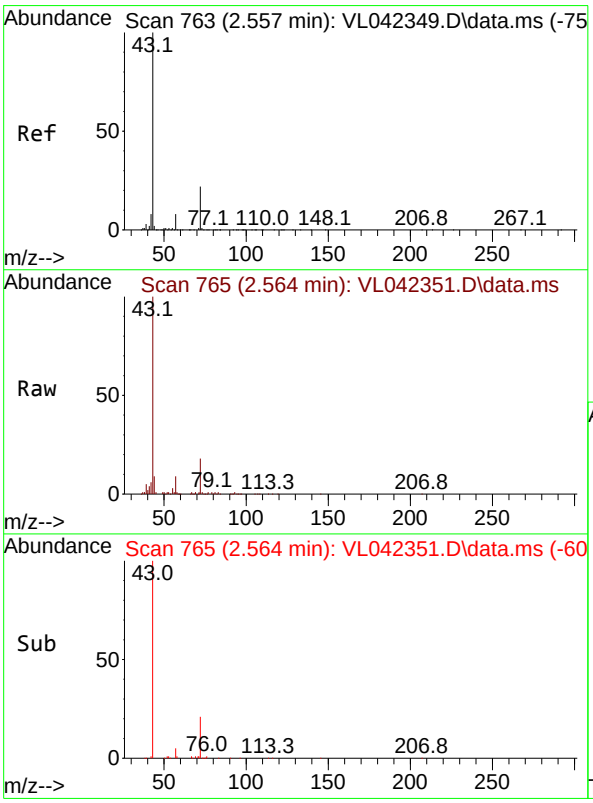

#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 11
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion:114 Resp: 359907

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 26.7 | 21.8 | 32.6 |
| 88 | 18.8 | 15.5 | 23.3 |

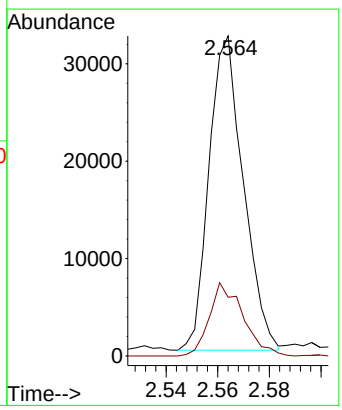


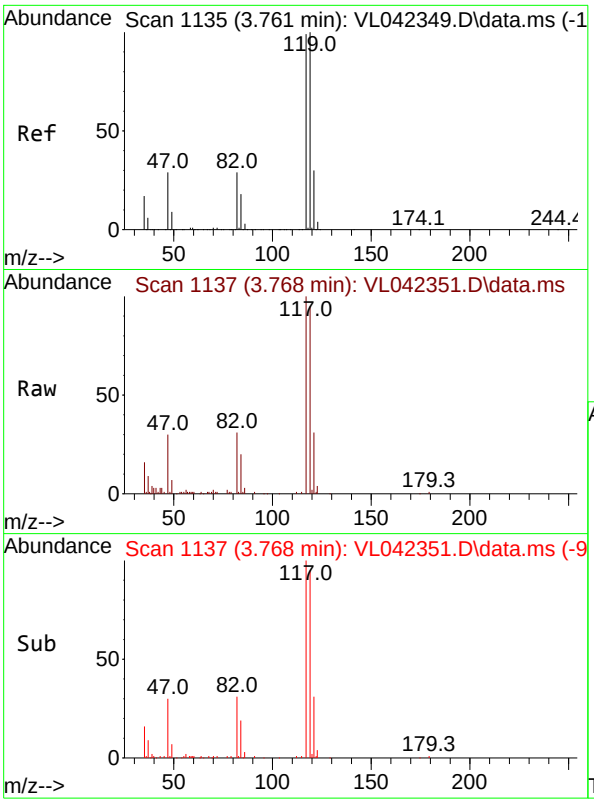




#34
2-Butanone
Concen: 1.045 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 43 Resp: 29735

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 23.1 | 18.2 | 27.2 |



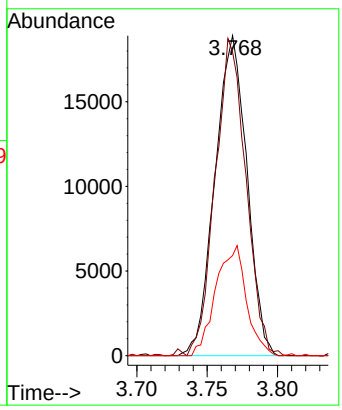


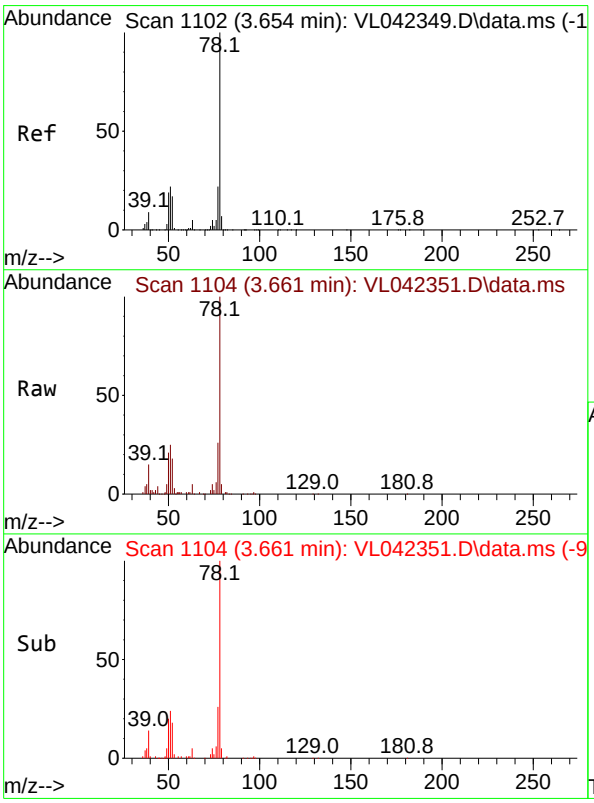

#35
Carbon Tetrachloride
Concen: 0.917 ppbv
RT: 3.768 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion:117 Resp: 29875

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 93.3 | 80.5 | 120.7 |
| 121 | 31.3 | 24.2 | 36.2 |

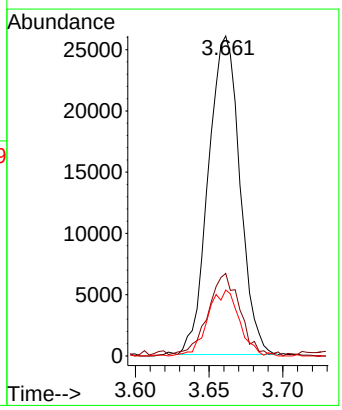


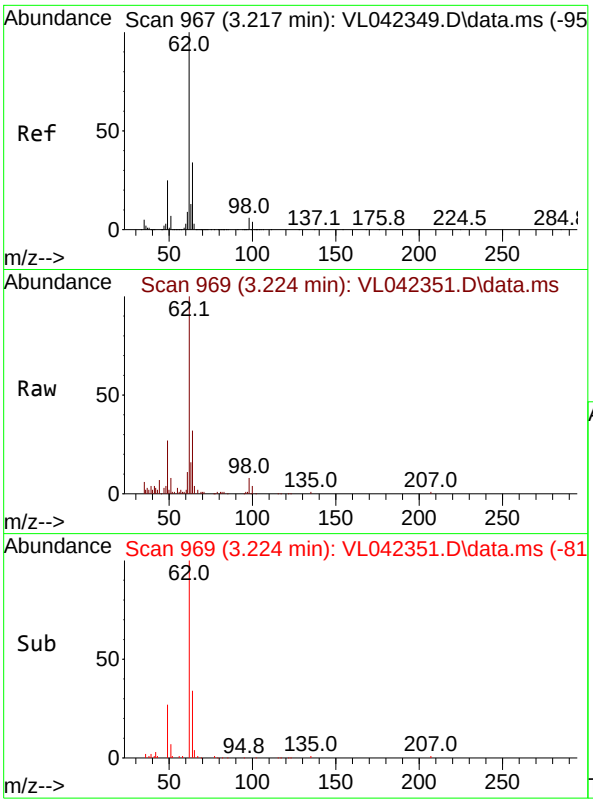




#36
Benzene
Concen: 0.997 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 78 Resp: 38707

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.7 | 17.4 | 26.0 |
| 50 | 20.7 | 15.5 | 23.3 |



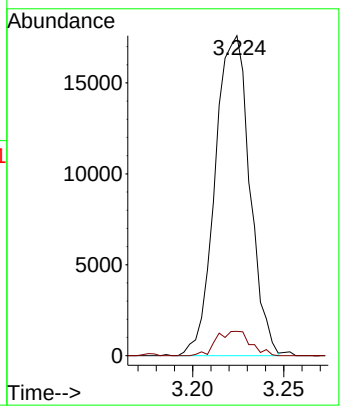


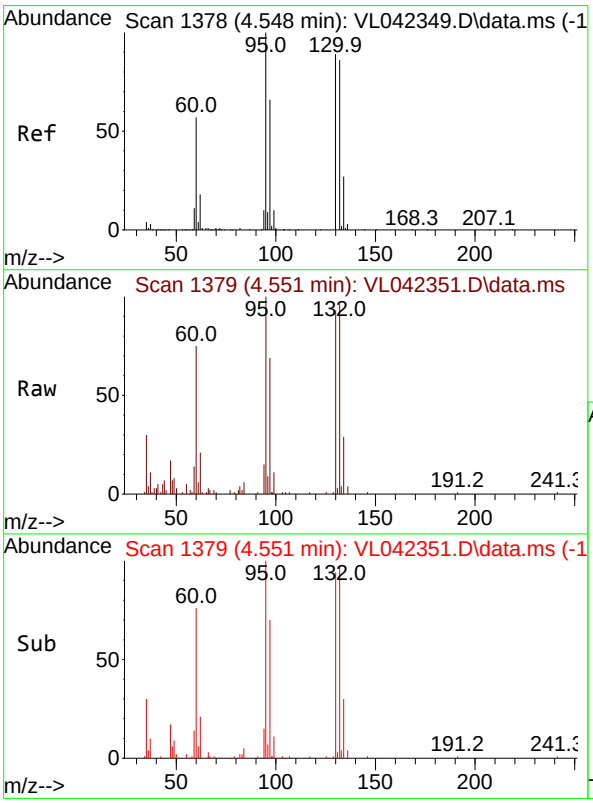

#37
1,2-Dichloroethane
Concen: 0.999 ppbv
RT: 3.224 min Scan# 9
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion: 62 Resp: 23284

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 7.5 | 5.1 | 7.7 |

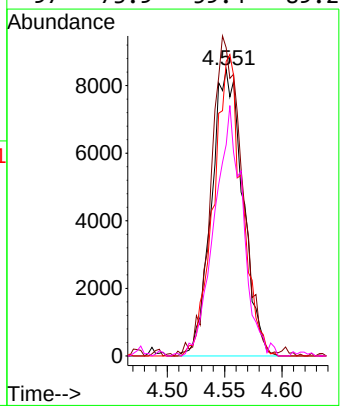


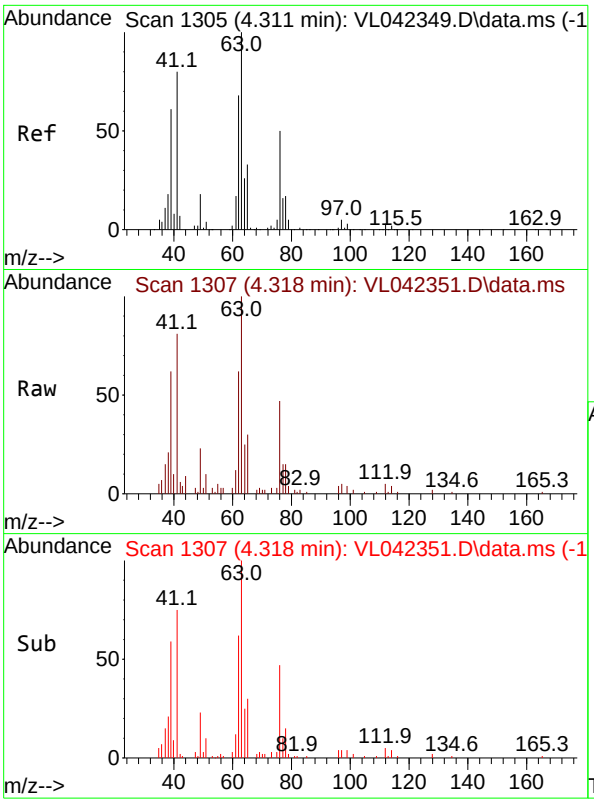




#38
Trichloroethene
Concen: 0.947 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:130 Resp: 16119

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 106.6 | 89.8 | 134.6 |
| 132 | 102.9 | 77.7 | 116.5 |
| 97 | 73.9 | 59.4 | 89.2 |



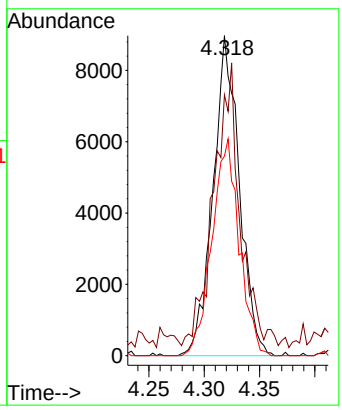


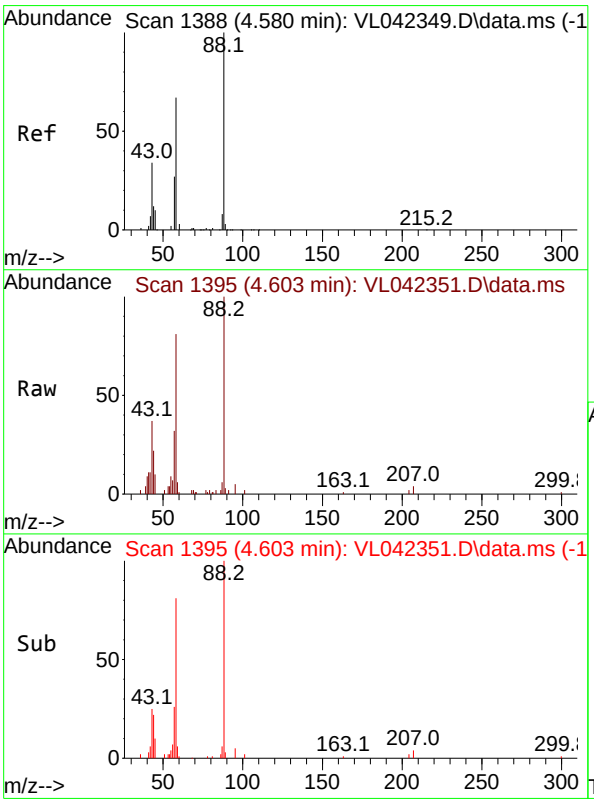

#39
1,2-Dichloropropane
Concen: 1.027 ppbv
RT: 4.318 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion: 63 Resp: 14866

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 78.3 | 64.2 | 96.2 |
| 62 | 62.3 | 54.3 | 81.5 |

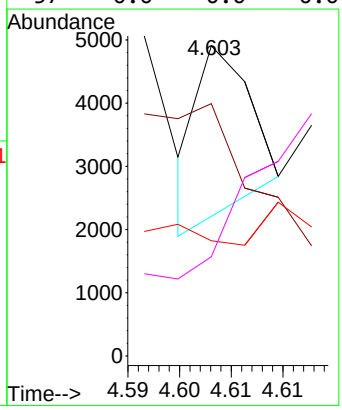


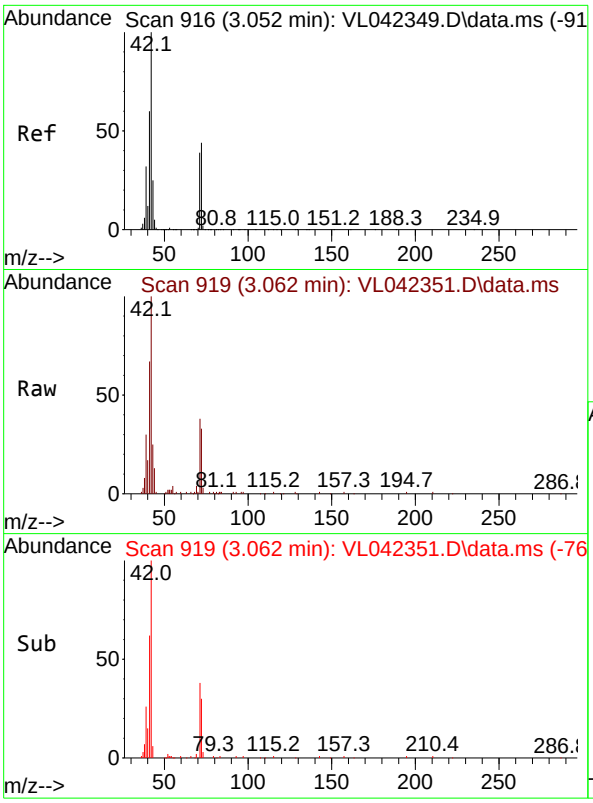




#40
1,4-Dioxane
Concen: 0.123 ppbv
RT: 4.603 min Scan# 1395
Delta R.T. 0.023 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 88 Resp: 967

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 998.9 | 61.4 | 92.0# |
| 43 | 0.0 | 23.2 | 34.8# |
| 57 | 0.0 | 0.0 | 0.0 |



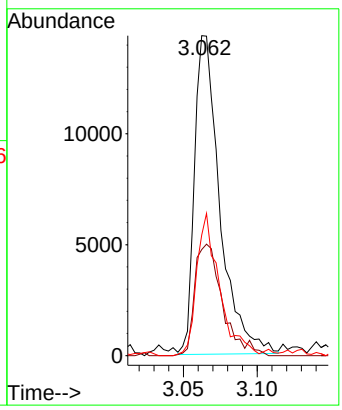


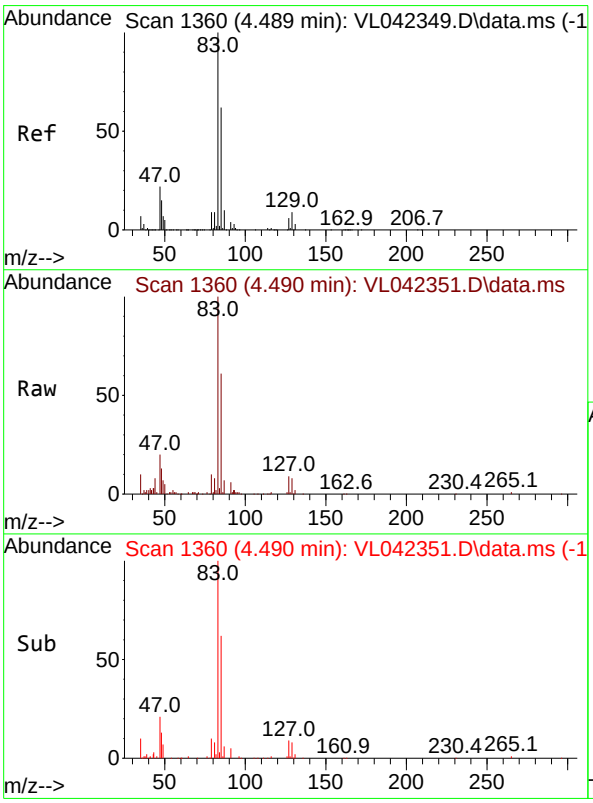

#41
Tetrahydrofuran
Concen: 1.049 ppbv
RT: 3.062 min Scan# 91
Delta R.T. 0.010 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion: 42 Resp: 17259

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 38.1 | 32.3 | 48.5 |
| 71 | 42.3 | 31.4 | 47.2 |

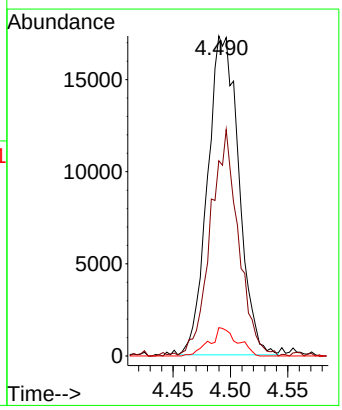


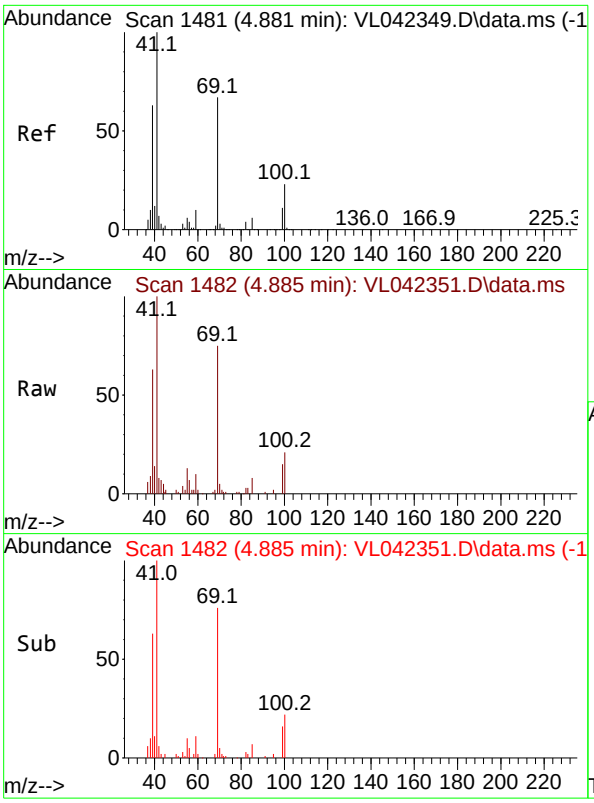




#42
Bromodichloromethane
Concen: 1.009 ppbv
RT: 4.490 min Scan# 1360
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 83 Resp: 32721

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 61.2 | 49.7 | 74.5 |
| 127 | 8.9 | 5.1 | 7.7# |



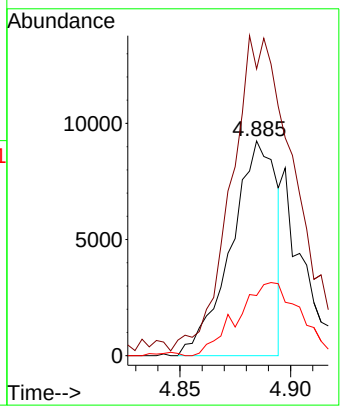


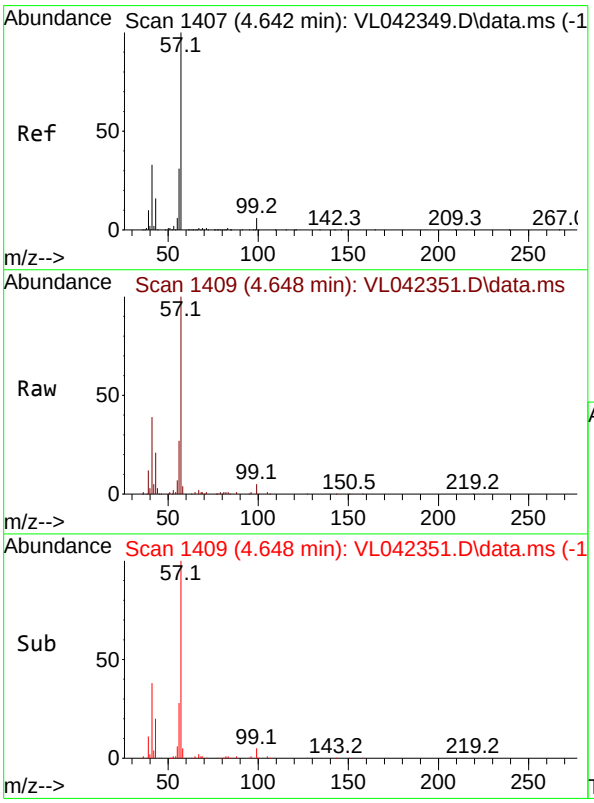

#43
Methyl Methacrylate
Concen: 0.751 ppbv
RT: 4.885 min Scan# 14
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion: 69 Resp: 13084

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 213.4 | 118.6 | 177.8# |
| 100 | 0.0 | 28.2 | 42.2# |

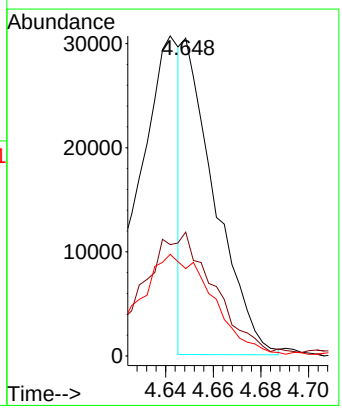


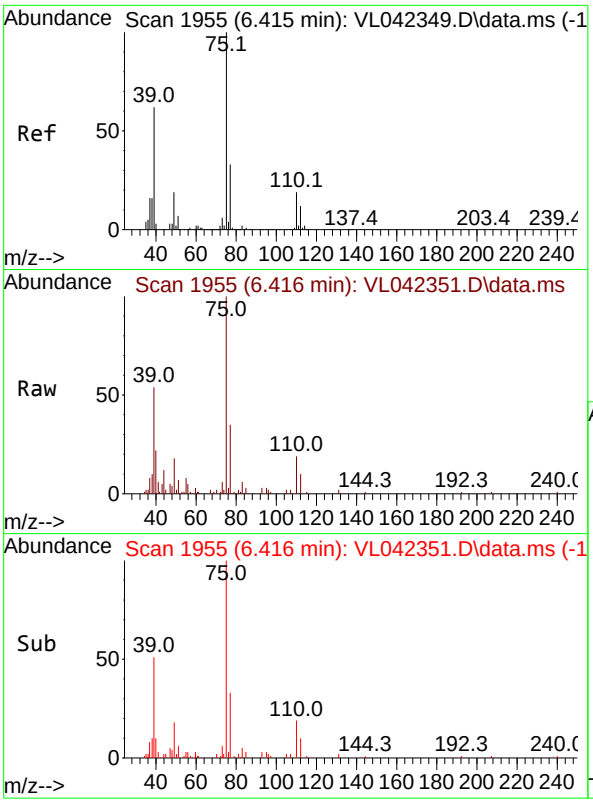




#44
2,2,4-Trimethylpentane
Concen: 0.427 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 57 Resp: 28653

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 91.3 | 27.2 | 40.8# |
| 56 | 0.0 | 25.7 | 38.5# |



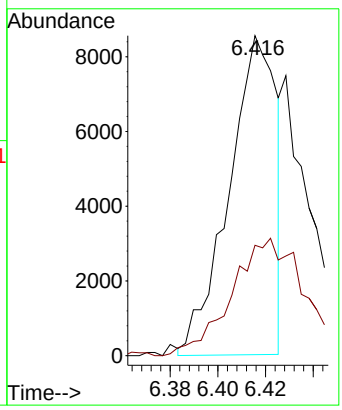


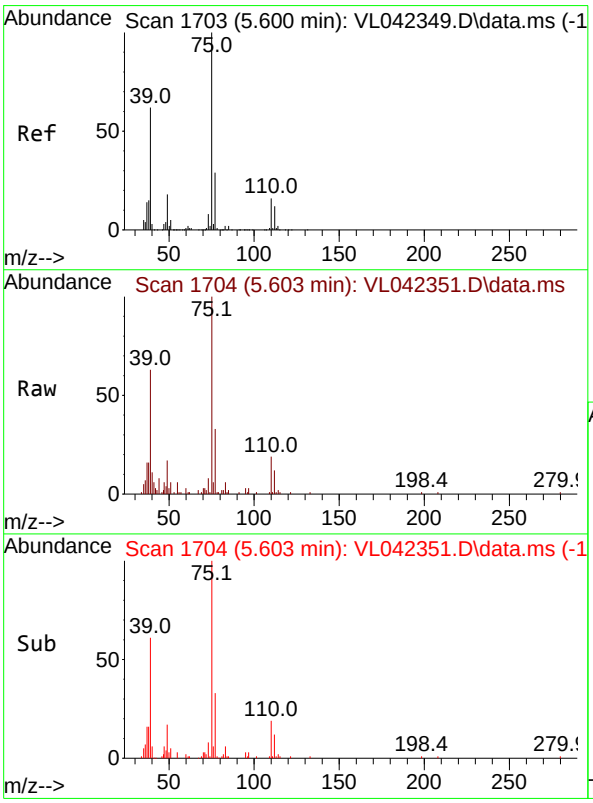

#45
t-1,3-Dichloropropene
Concen: 0.658 ppbv
RT: 6.416 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion: 75 Resp: 11763

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 34.5 | 27.0 | 40.6 |

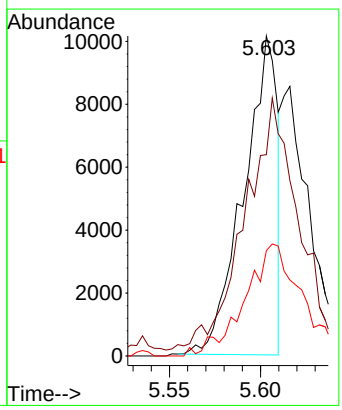


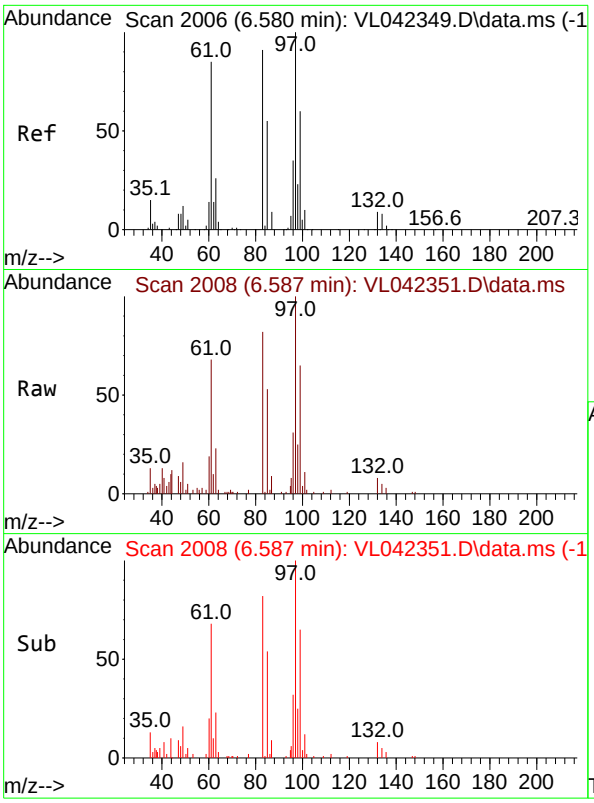




#46
cis-1,3-Dichloropropene
Concen: 0.596 ppbv
RT: 5.603 min Scan# 1704
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 75 Resp: 13028

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 39 | 59.7 | 50.0 | 75.0 |
| 77 | 33.1 | 23.0 | 34.6 |



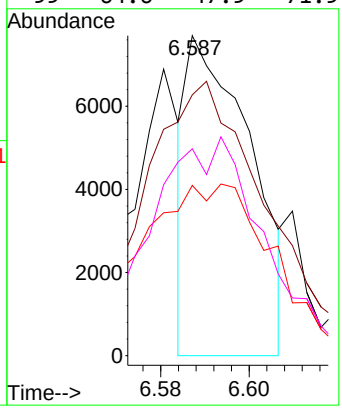


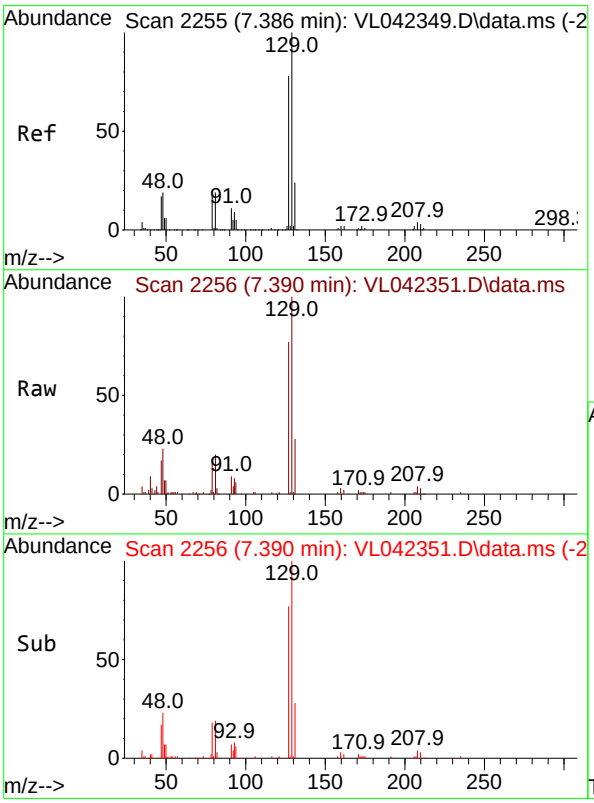

#47
1,1,2-Trichloroethane
Concen: 0.521 ppbv
RT: 6.587 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion: 97 Resp: 7690

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 67.7 | 72.8 | 109.2# |
| 85 | 31.3 | 44.2 | 66.4# |
| 99 | 64.6 | 47.9 | 71.9 |

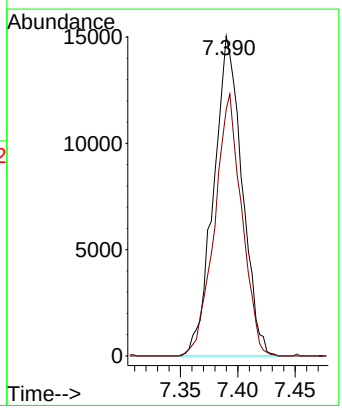


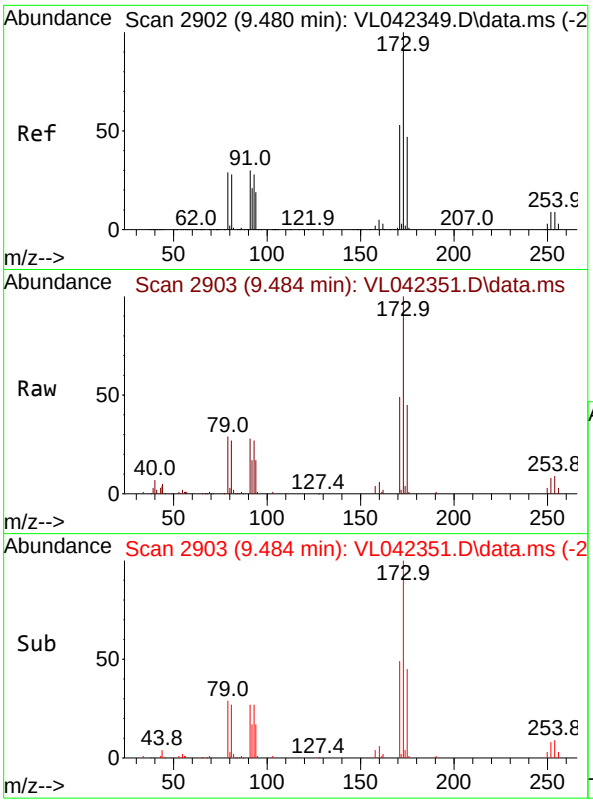




#48
Dibromochloromethane
Concen: 0.997 ppbv
RT: 7.390 min Scan# 2256
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:129 Resp: 25948

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.4 | 39.1 | 117.3 |



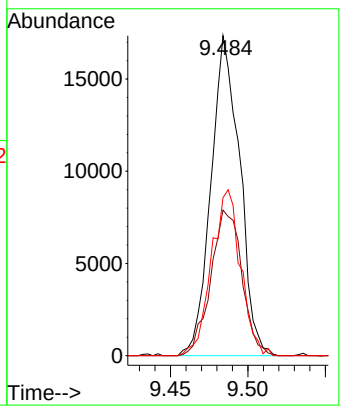


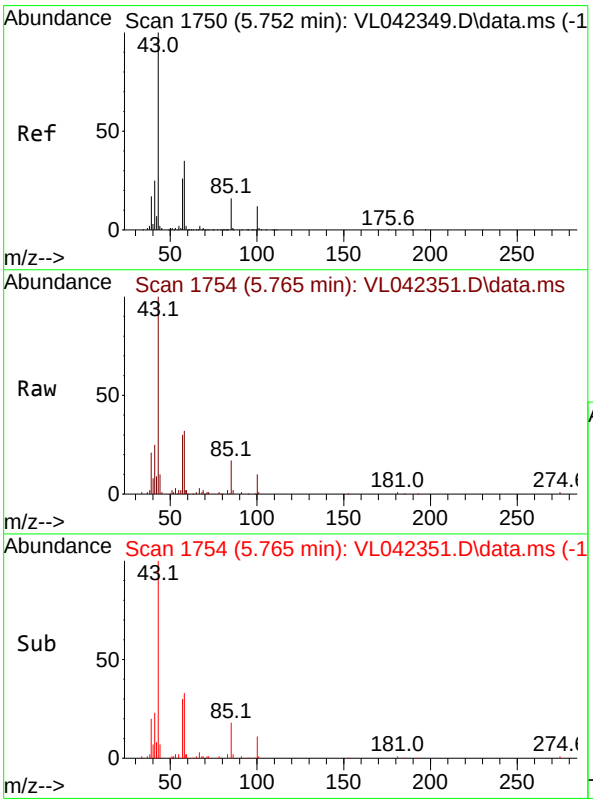

#49
Bromoform
Concen: 0.984 ppbv
RT: 9.484 min Scan# 2
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion:173 Resp: 22413

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.3 | 38.2 | 57.2 |
| 171 | 52.7 | 40.9 | 61.3 |

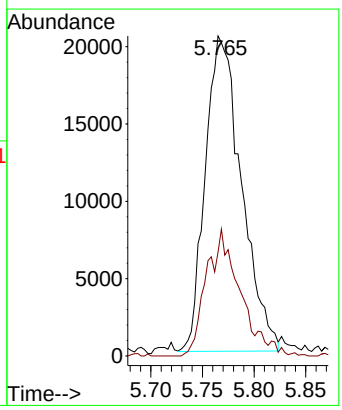


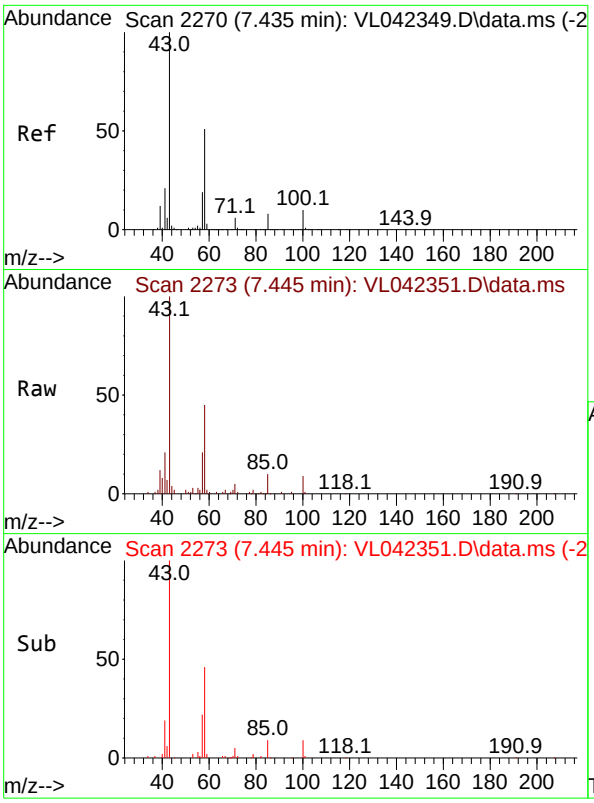




#50
4-Methyl-2-Pentanone
Concen: 1.049 ppbv
RT: 5.765 min Scan# 1754
Delta R.T. 0.013 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 43 Resp: 49725

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 37.7 | 28.6 | 43.0 |



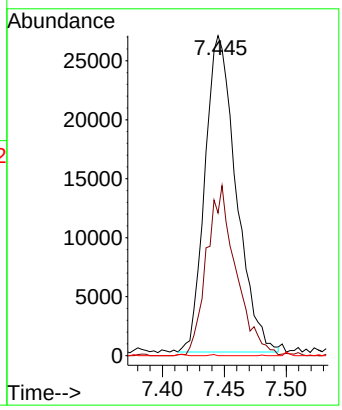


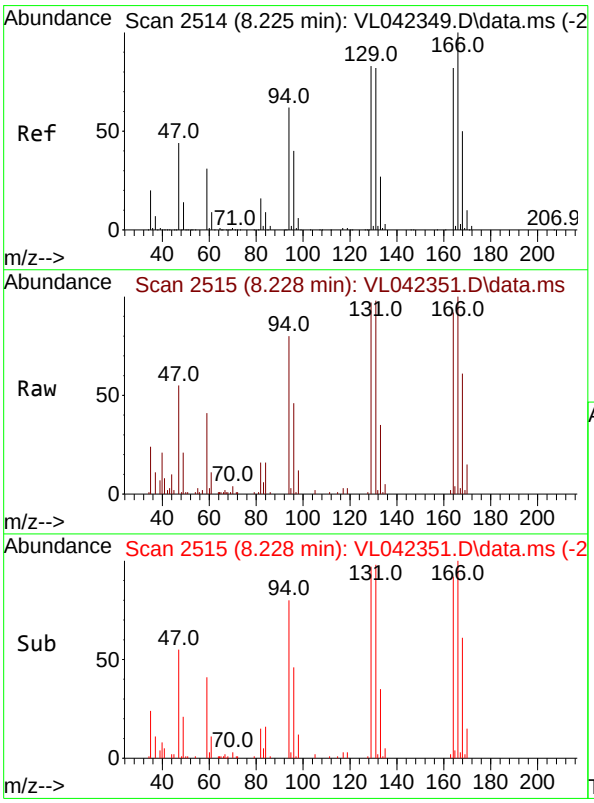

#51
2-Hexanone
Concen: 1.103 ppbv
RT: 7.445 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion: 43 Resp: 47178

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 50.8 | 40.2 | 60.4 |
| 98 | 0.1 | 0.1 | 0.1 |

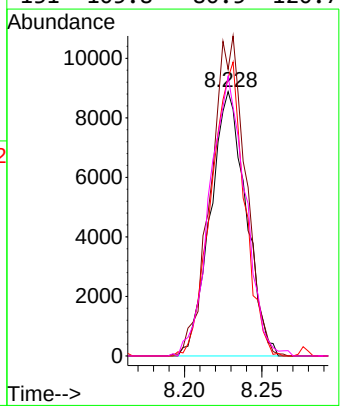


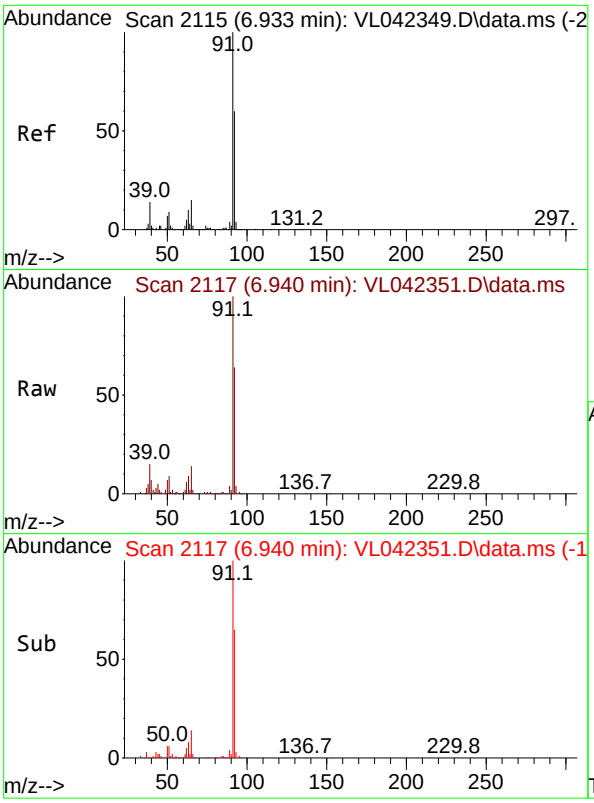




#52
Tetrachloroethene
Concen: 0.943 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:164 Resp: 14154

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 107.7 | 98.2 | 147.2 |
| 129 | 104.2 | 81.8 | 122.8 |
| 131 | 105.8 | 80.5 | 120.7 |



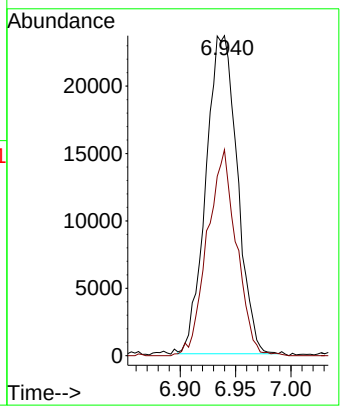


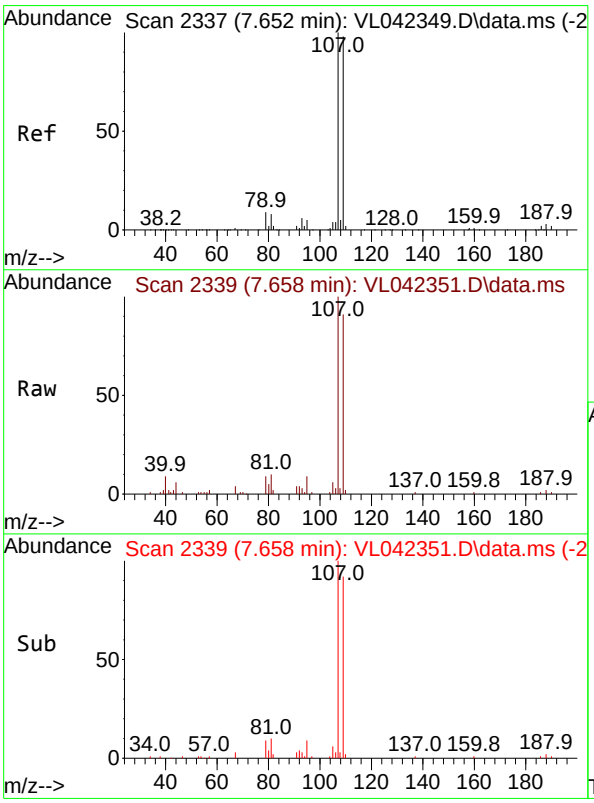

#53
Toluene
Concen: 1.001 ppbv
RT: 6.940 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion: 91 Resp: 46611

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 60.4 | 48.2 | 72.4 |

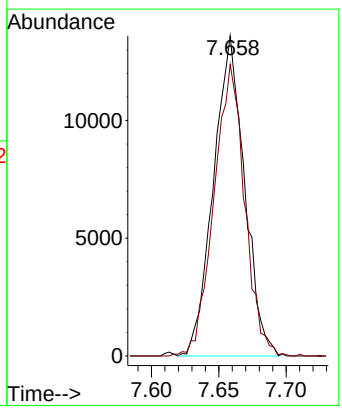


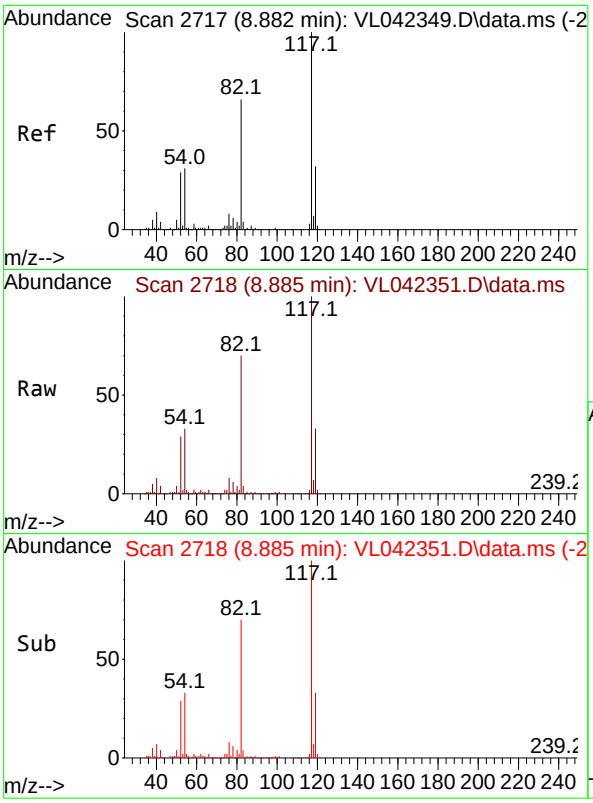




#54
1,2-Dibromoethane
Concen: 1.036 ppbv
RT: 7.658 min Scan# 2339
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:107 Resp: 21780

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 90.7 | 78.2 | 117.4 |



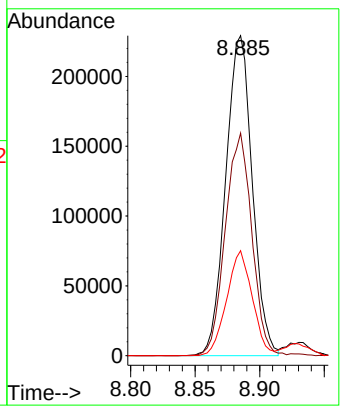


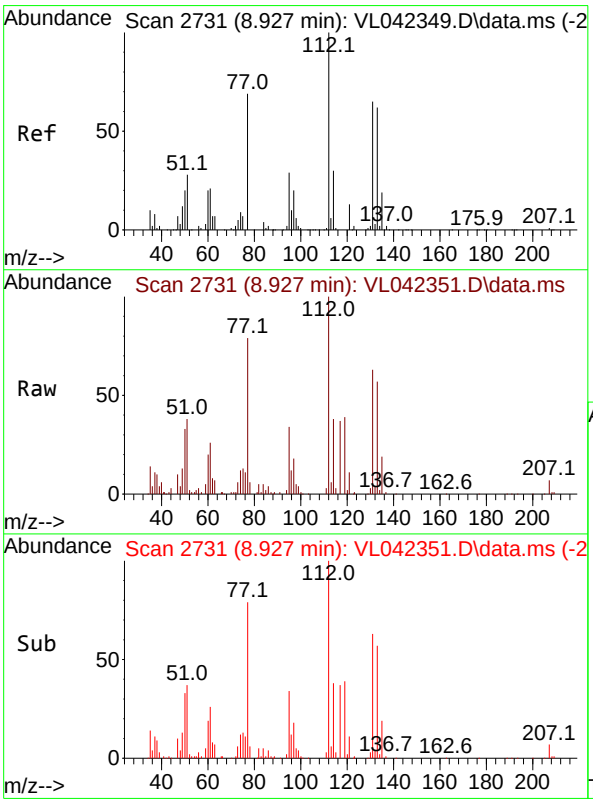

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion:117 Resp: 329090

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 69.7 | 57.8 | 86.6 |
| 119 | 31.8 | 25.2 | 37.8 |

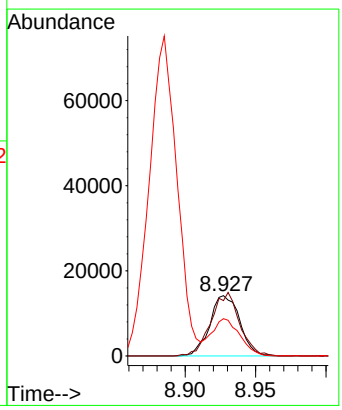


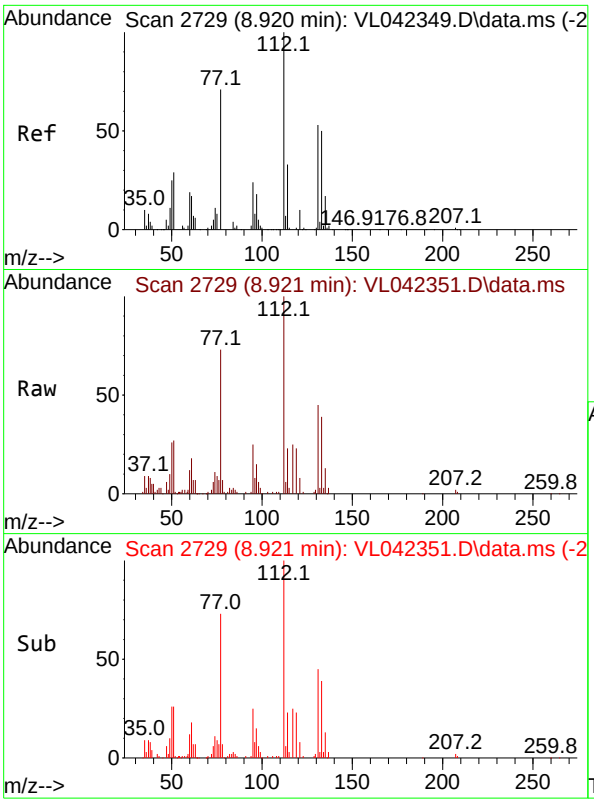




#56
1,1,1,2-Tetrachloroethane
Concen: 1.057 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:131 Resp: 21052

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 100.5 | 78.3 | 117.5 |
| 119 | 55.1 | 48.7 | 73.1 |



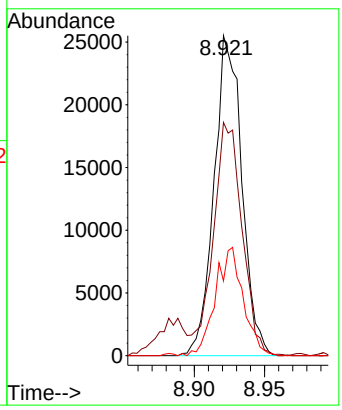


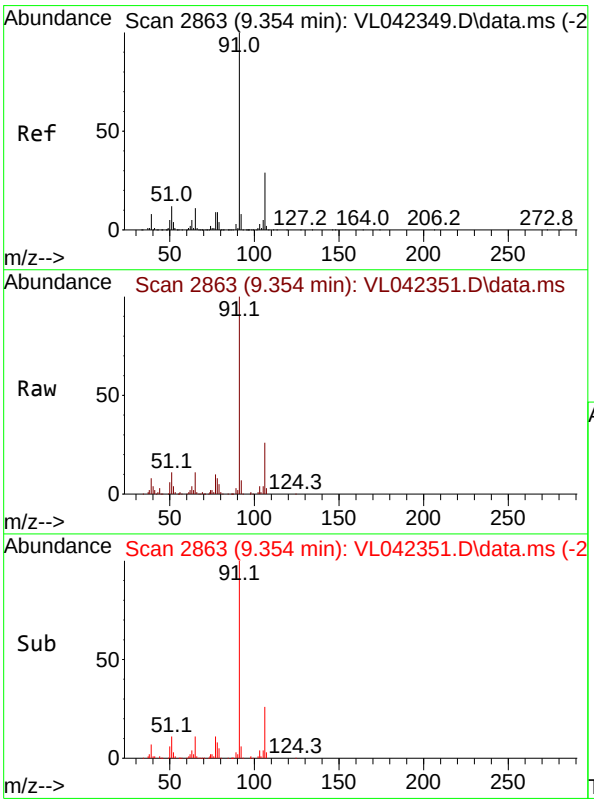

#57
Chlorobenzene
Concen: 1.026 ppbv
RT: 8.921 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion:112 Resp: 35113

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 72.4 | 57.8 | 86.6 |
| 114 | 23.3 | 29.3 | 35.9# |

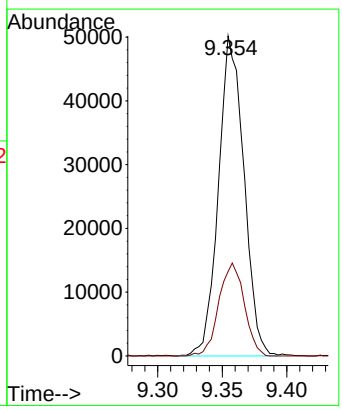


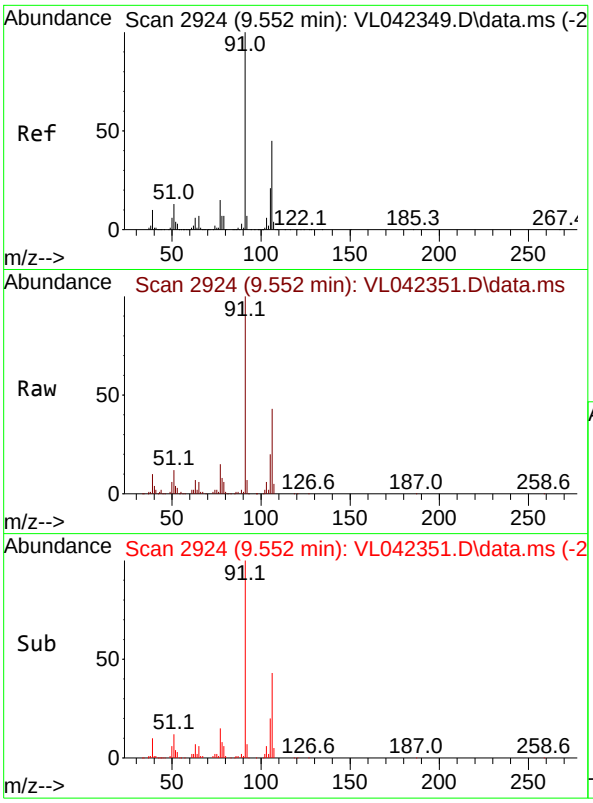




#58
Ethyl Benzene
Concen: 1.054 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 91 Resp: 68703

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 26.5 | 23.0 | 34.4 |



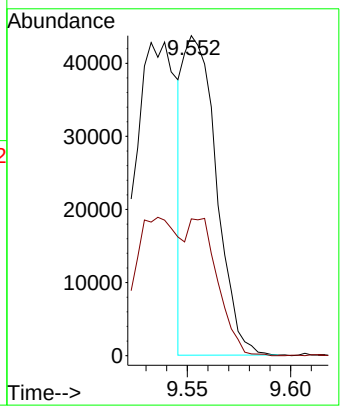


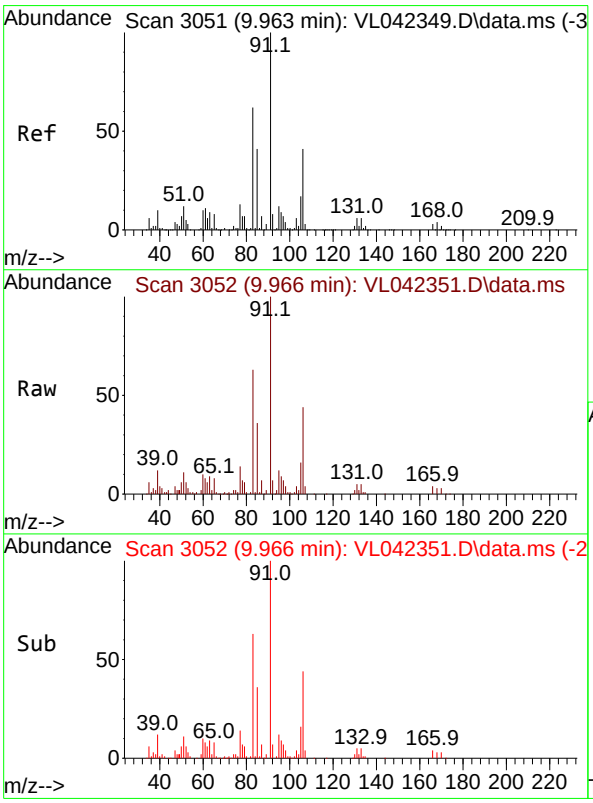

#59
m/p-Xylene
Concen: 0.926 ppbv
RT: 9.552 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion: 91 Resp: 48794

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 0.0 | 35.4 | 53.2# |

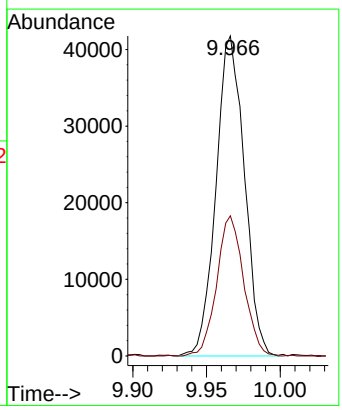


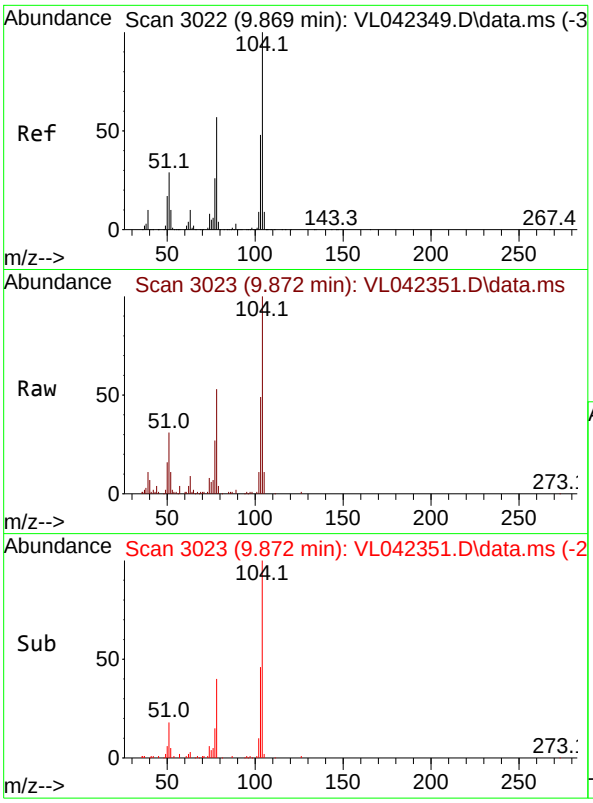




#60
o-Xylene
Concen: 1.056 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 91 Resp: 55831

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 41.6 | 21.1 | 63.4 |



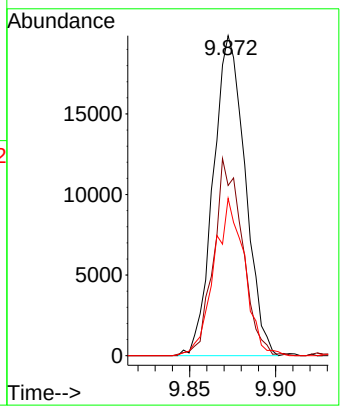


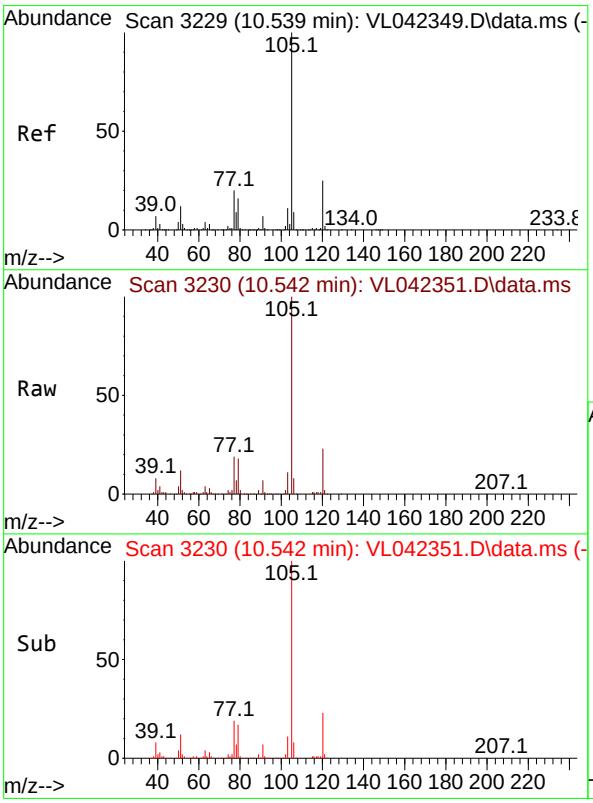

#61
Styrene
Concen: 1.012 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion:104 Resp: 25544

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 55.7 | 44.6 | 66.8 |
| 103 | 47.2 | 37.4 | 56.0 |

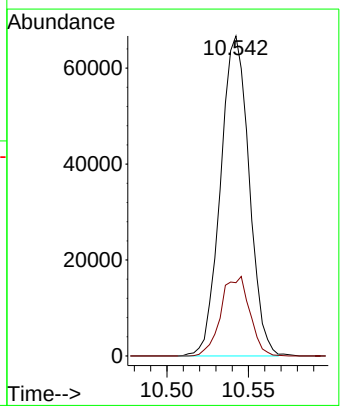


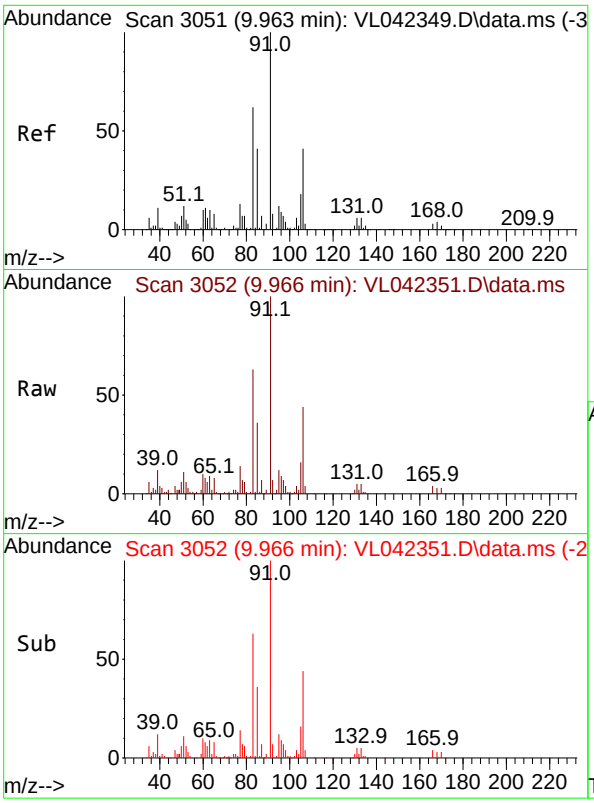




#62
Isopropylbenzene
Concen: 1.047 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:105 Resp: 81286

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.0 | 19.8 | 29.8 |



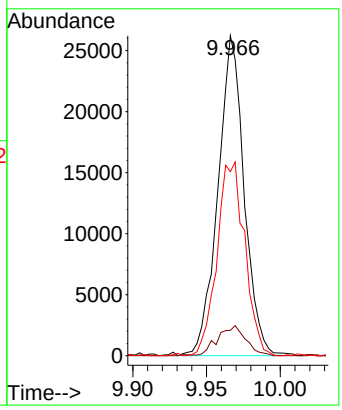


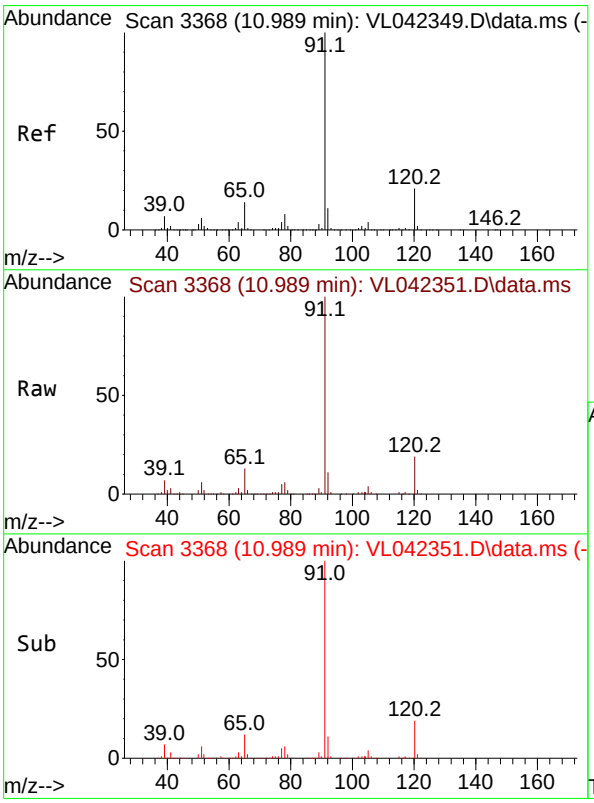

#63
1,1,2,2-Tetrachloroethane
Concen: 0.943 ppbv
RT: 9.966 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion: 83 Resp: 32410

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.2 | 4.5 | 13.7 |
| 85 | 64.4 | 32.4 | 97.0 |

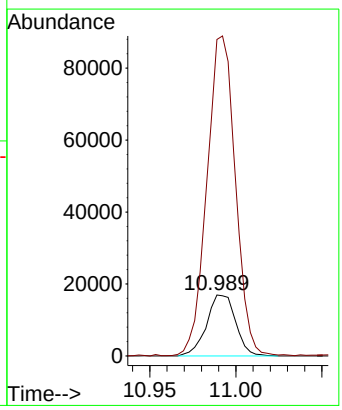


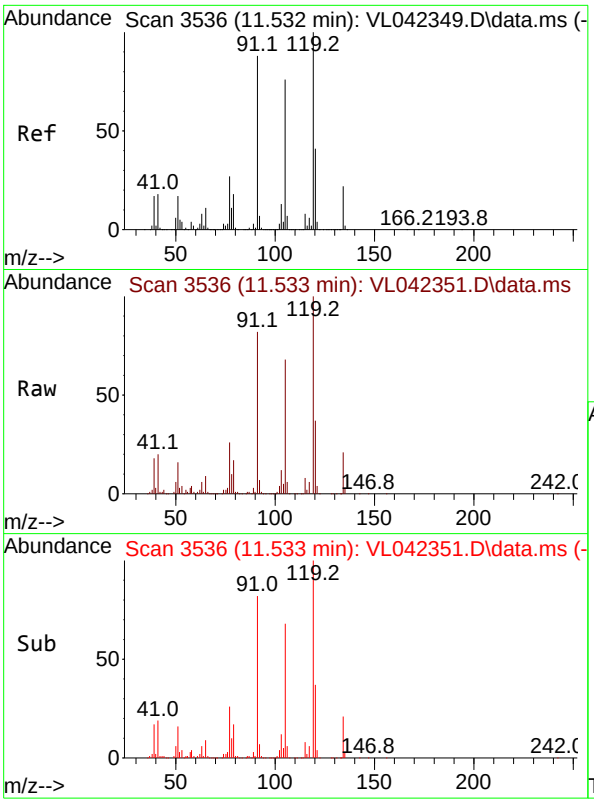




#64
n-propylbenzene
Concen: 1.019 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:120 Resp: 19898

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 517.6 | 392.4 | 588.6 |



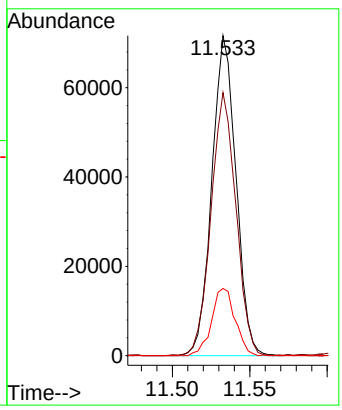


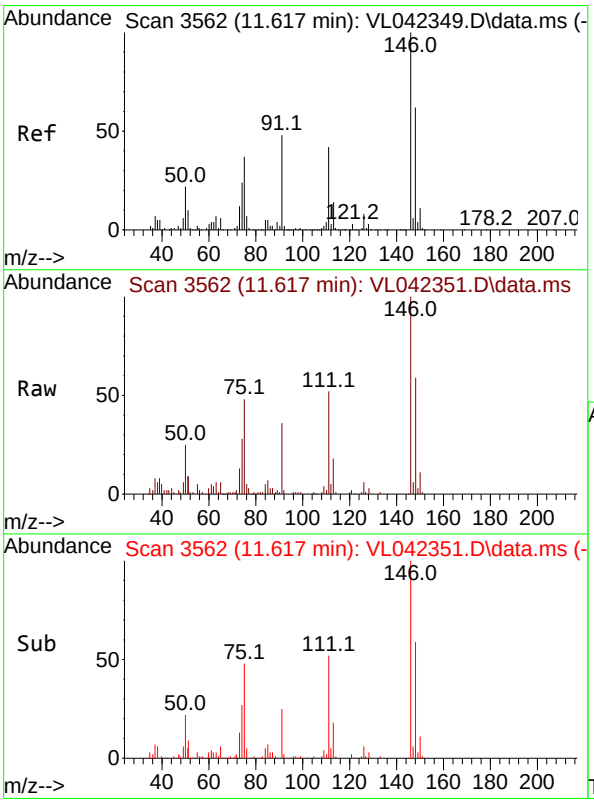

#65
tert-Butylbenzene
Concen: 1.087 ppbv
RT: 11.533 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion:119 Resp: 77598

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 85.0 | 74.6 | 111.8 |
| 134 | 20.5 | 18.8 | 28.2 |

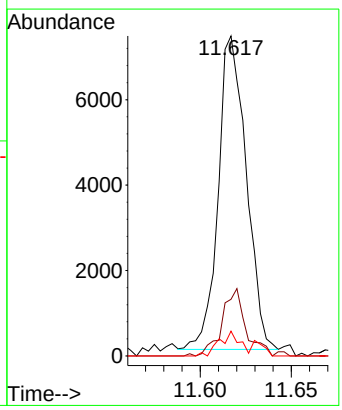


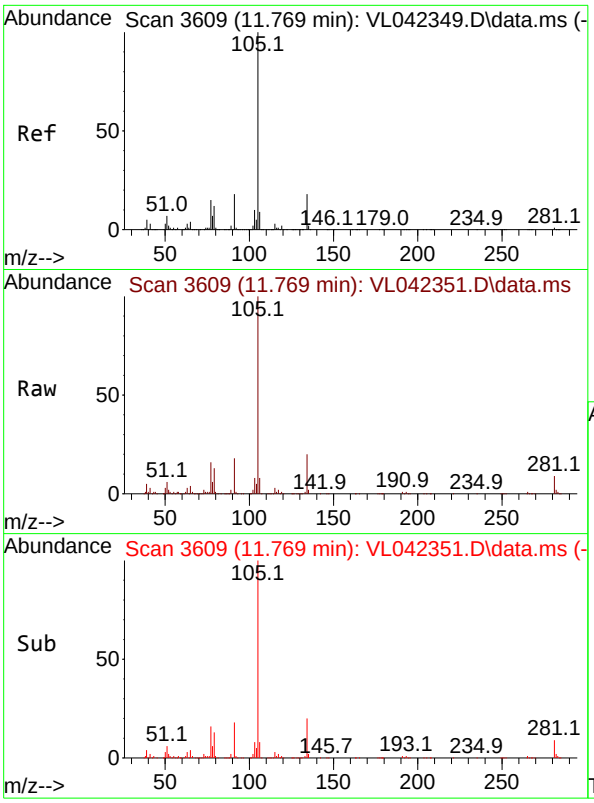




#66
Benzyl Chloride
Concen: 1.003 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 91 Resp: 7864

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 18.6 | 11.8 | 17.6# |
| 128 | 7.7 | 4.5 | 6.7# |



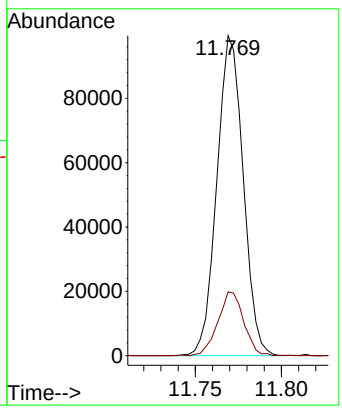


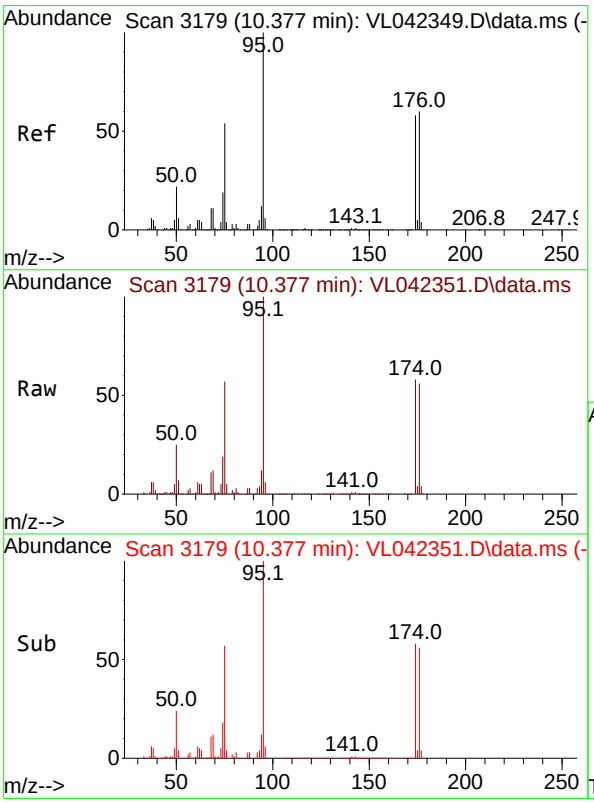

#67
sec-Butylbenzene
Concen: 1.067 ppbv
RT: 11.769 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion:105 Resp: 105919

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.6 | 14.6 | 21.8 |

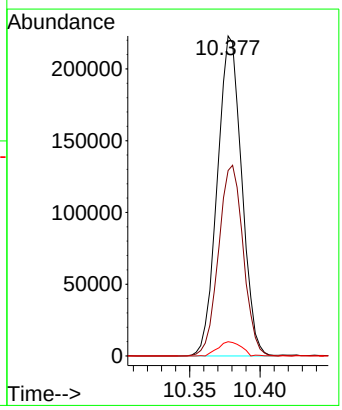


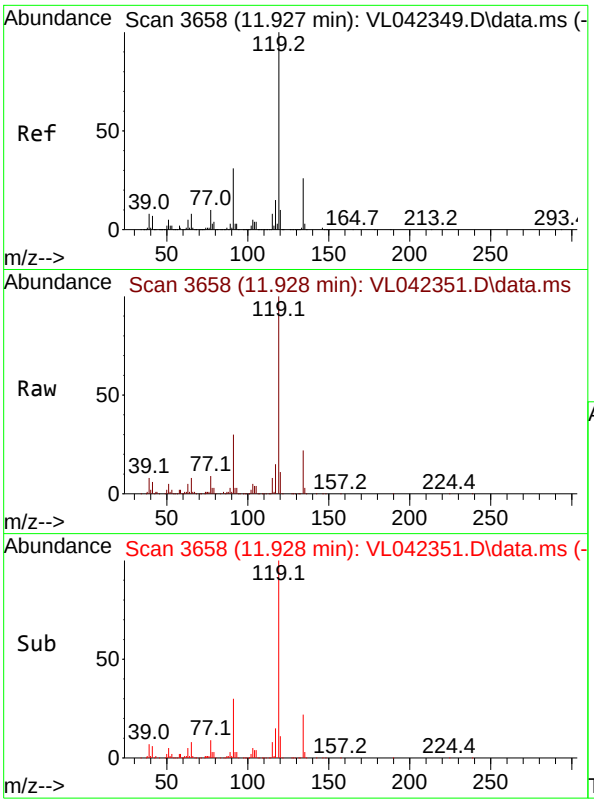




#68
1-Bromo-4-Fluorobenzene
Concen: 9.950 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 95 Resp: 269087

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 60.4 | 48.5 | 72.7 |
| 175 | 4.3 | 3.7 | 5.5 |



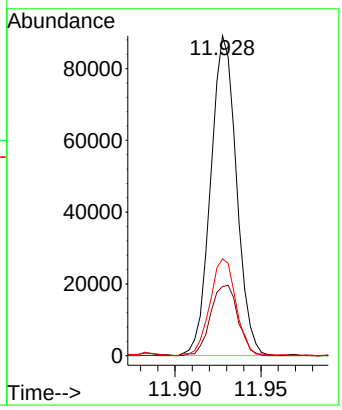


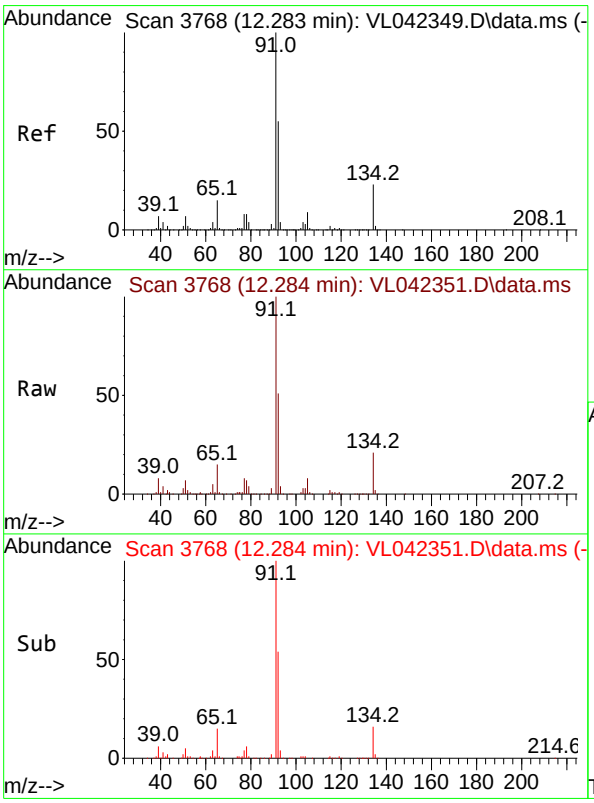

#69
p-Isopropyltoluene
Concen: 1.075 ppbv
RT: 11.928 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion:119 Resp: 92733

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 23.5 | 20.0 | 30.0 |
| 91 | 32.1 | 24.4 | 36.6 |

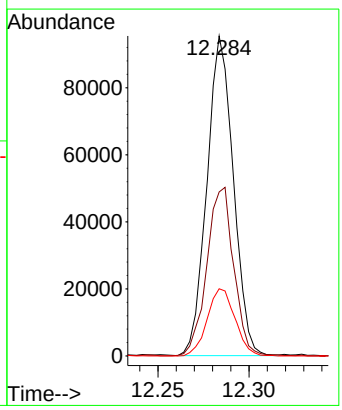


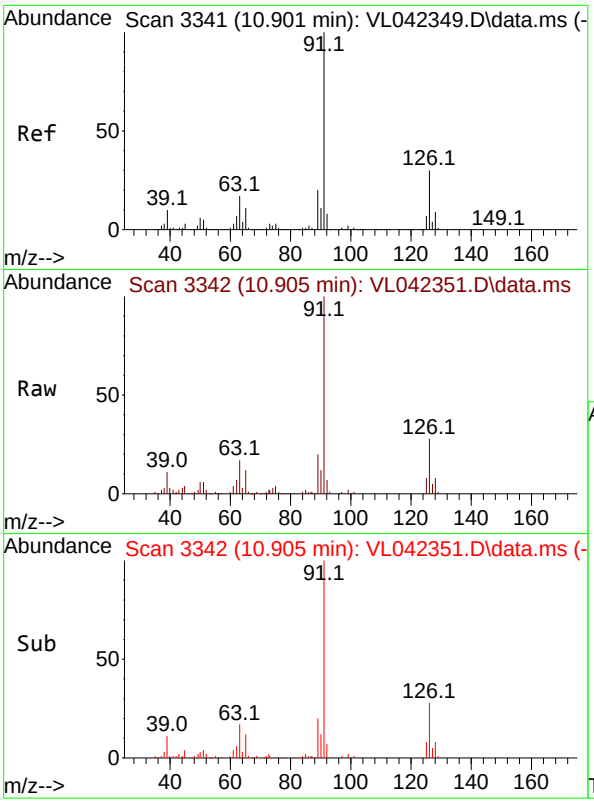




#70
n-Butylbenzene
Concen: 1.072 ppbv
RT: 12.284 min Scan# 3768
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 91 Resp: 96306

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 54.2 | 44.2 | 66.4 |
| 134 | 22.1 | 18.2 | 27.4 |



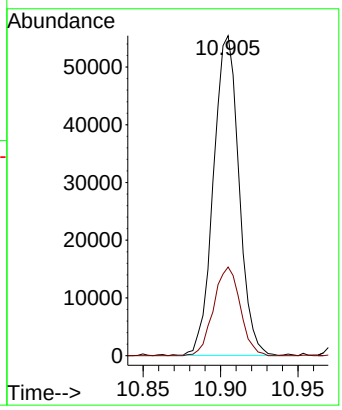


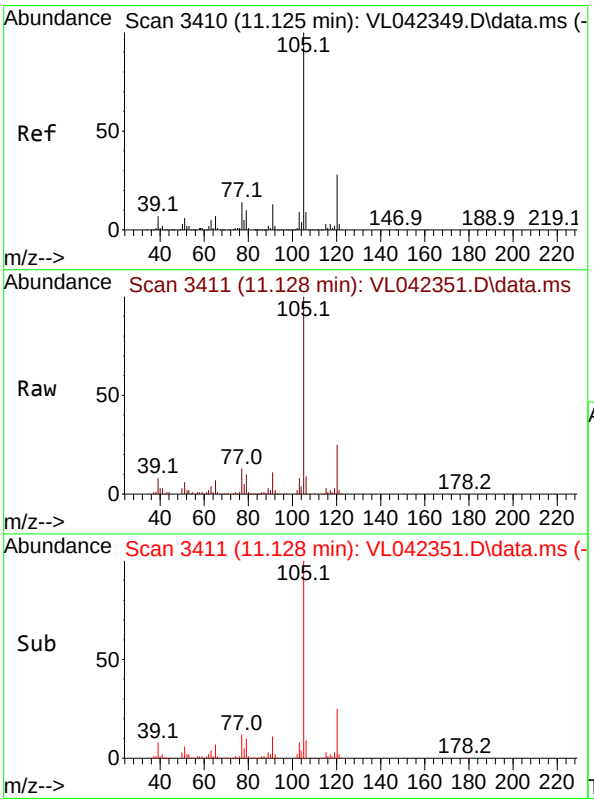

#71
2-Chlorotoluene
Concen: 1.040 ppbv
RT: 10.905 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion: 91 Resp: 63321

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 28.9 | 11.4 | 45.4 |

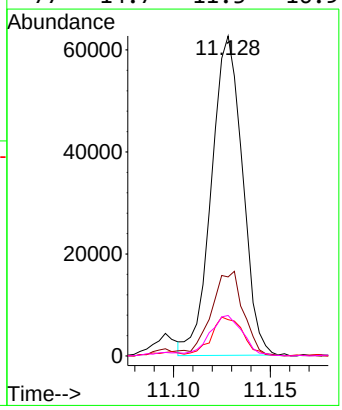


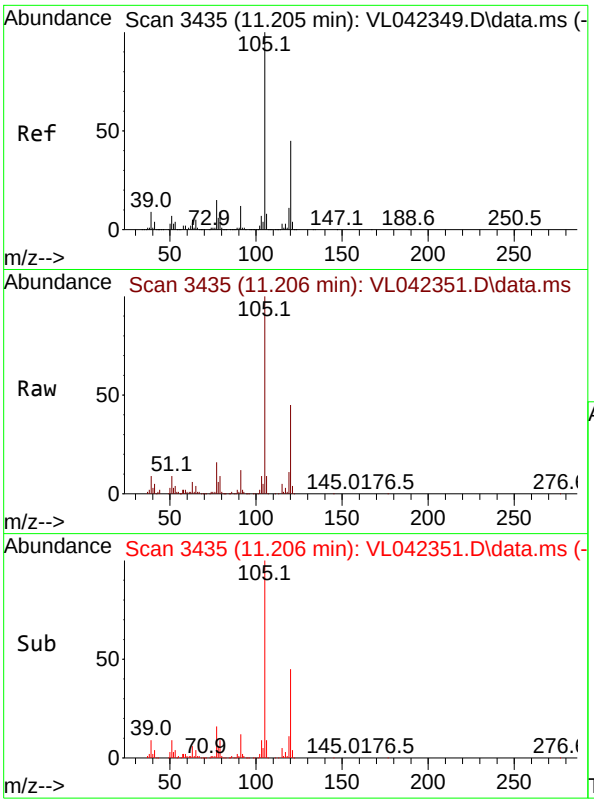




#72
4-Ethyltoluene
Concen: 1.078 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:105 Resp: 69698

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 29.2 | 23.2 | 34.8 |
| 91 | 13.5 | 10.4 | 15.6 |
| 77 | 14.7 | 11.3 | 16.9 |



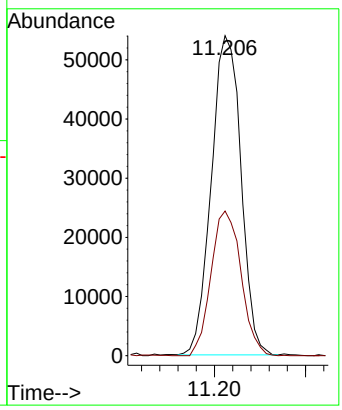


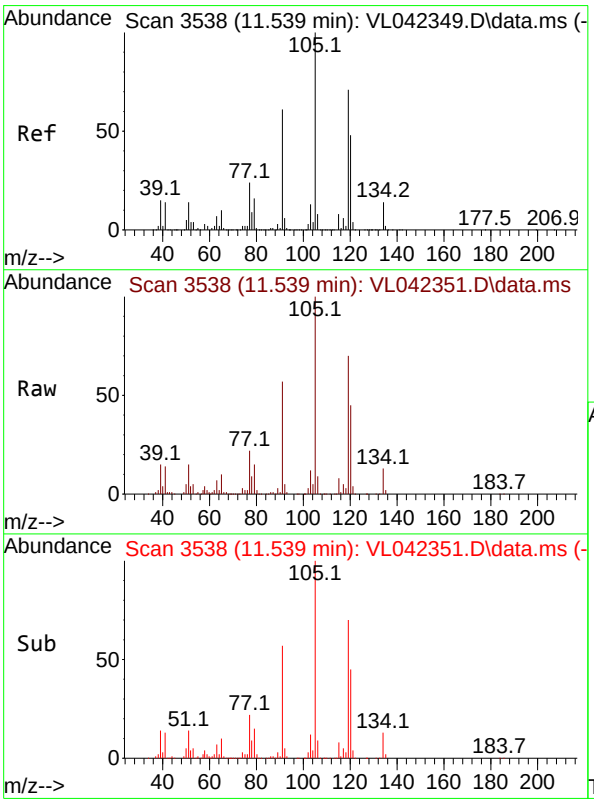

#73
1,3,5-Trimethylbenzene
Concen: 1.067 ppbv
RT: 11.206 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion:105 Resp: 60927

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.3 | 35.6 | 53.4 |

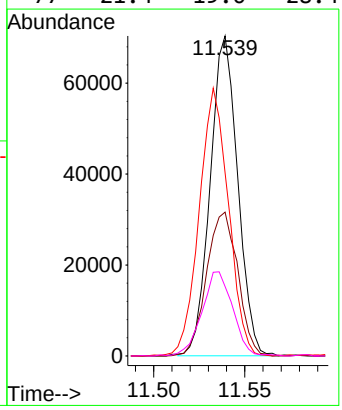


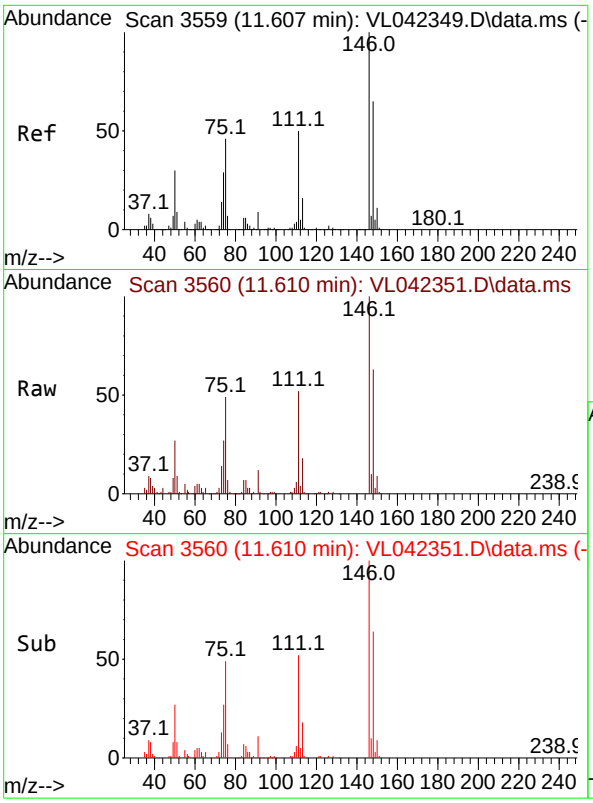




#74
1,2,4-Trimethylbenzene
Concen: 1.108 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:105 Resp: 73888

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.0 | 38.1 | 57.1 |
| 91 | 57.0 | 48.8 | 73.2 |
| 77 | 21.4 | 19.0 | 28.4 |



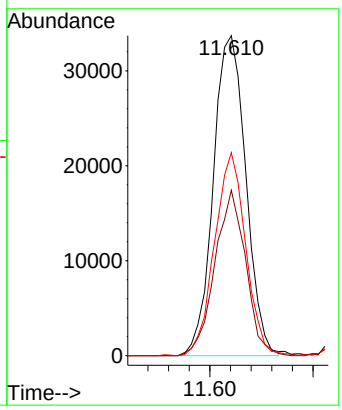


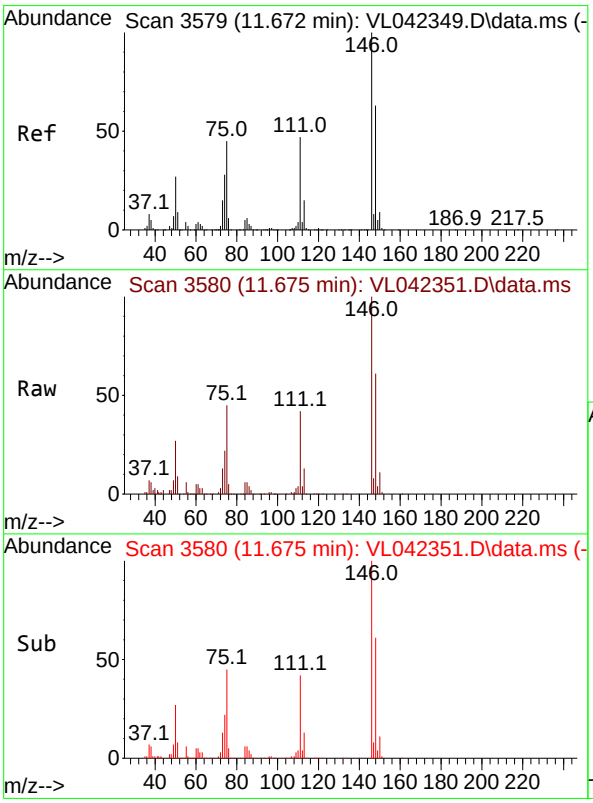

#75
1,3-Dichlorobenzene
Concen: 1.064 ppbv
RT: 11.610 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion:146 Resp: 36877

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 48.9 | 24.3 | 72.8 |
| 148 | 60.8 | 31.6 | 94.8 |

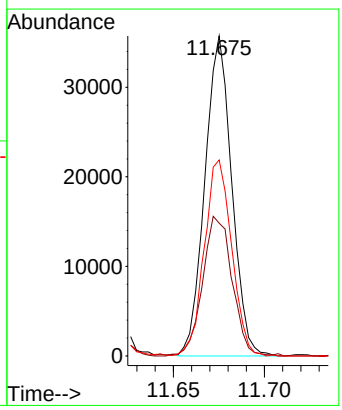


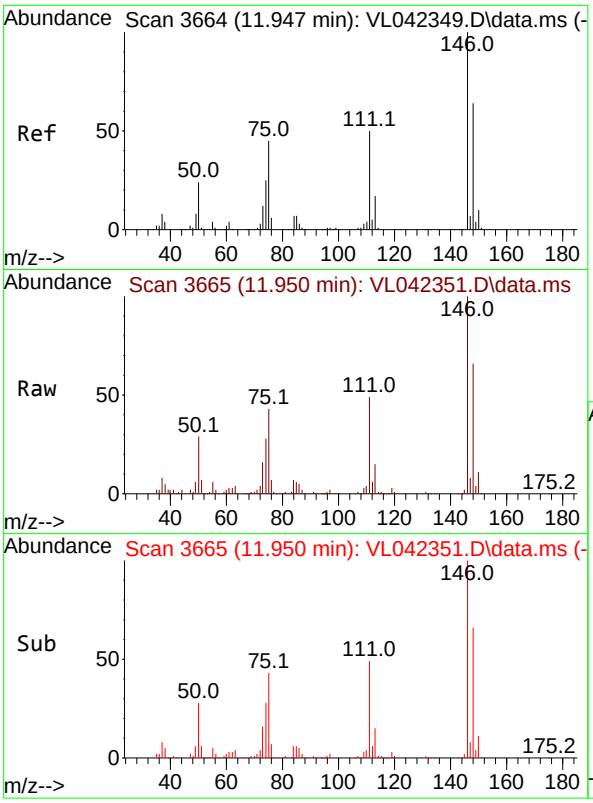




#76
1,4-Dichlorobenzene
Concen: 1.053 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:146 Resp: 36692

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 47.7 | 24.2 | 72.6 |
| 148 | 62.3 | 32.1 | 96.5 |



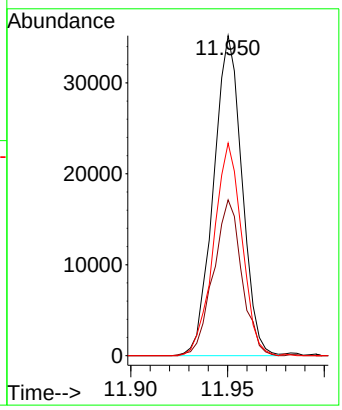


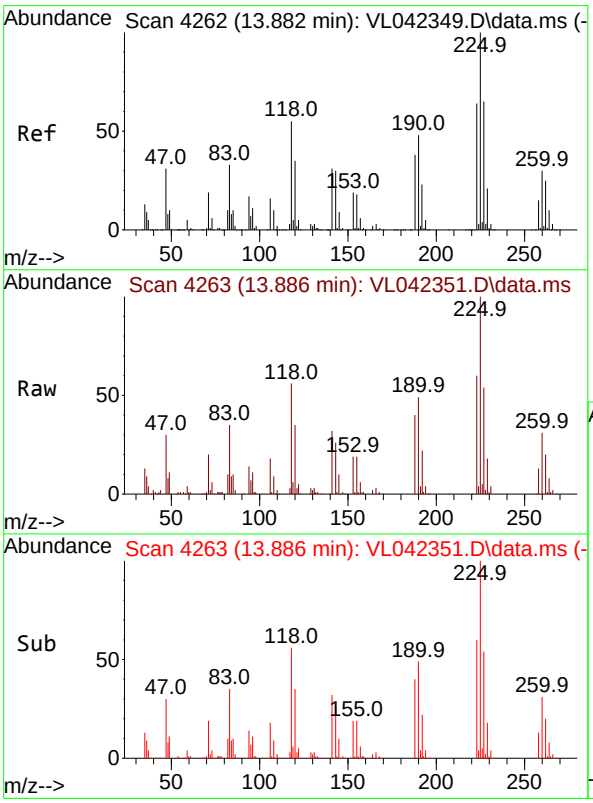

#77
1,2-Dichlorobenzene
Concen: 1.068 ppbv
RT: 11.950 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion:146 Resp: 35977

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 48.7 | 25.3 | 75.9 |
| 148 | 65.9 | 31.5 | 94.5 |

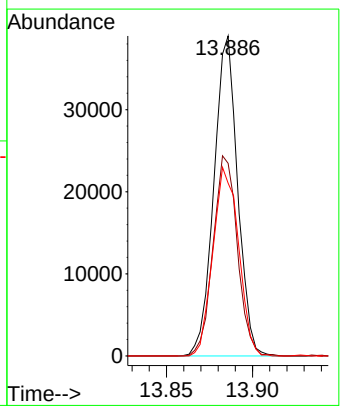


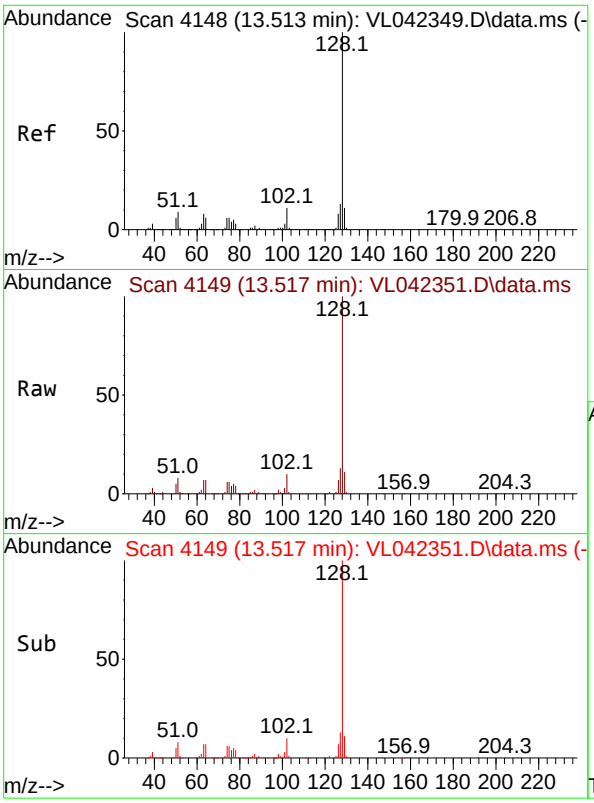




#78
Hexachloro-1,3-Butadiene
Concen: 1.098 ppbv
RT: 13.886 min Scan# 4263
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:225 Resp: 37377

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 64.1 | 50.3 | 75.5 |
| 227 | 63.6 | 51.5 | 77.3 |



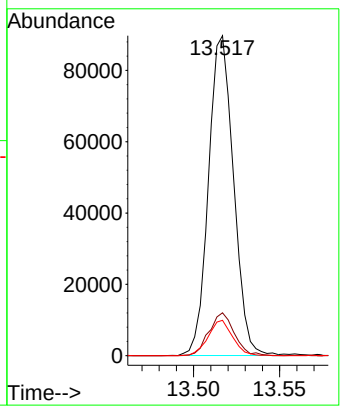


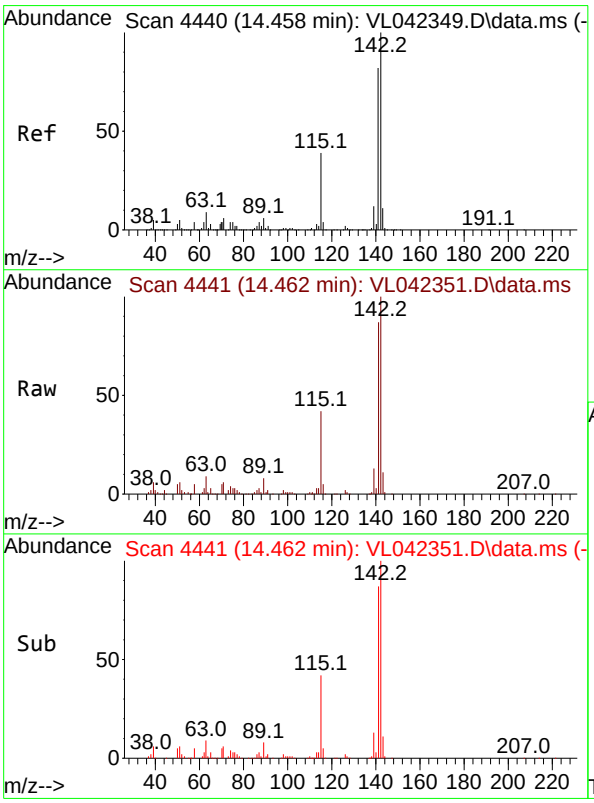

#79
Naphthalene
Concen: 1.138 ppbv
RT: 13.517 min Scan# 4
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion:128 Resp: 90710

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.4 | 10.6 | 15.8 |
| 129 | 11.1 | 8.6 | 12.8 |

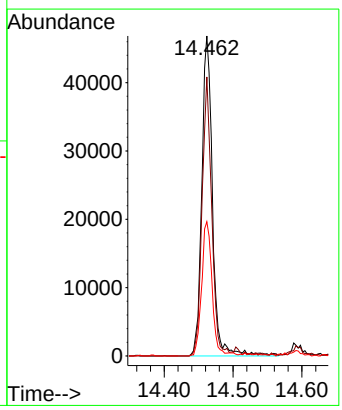


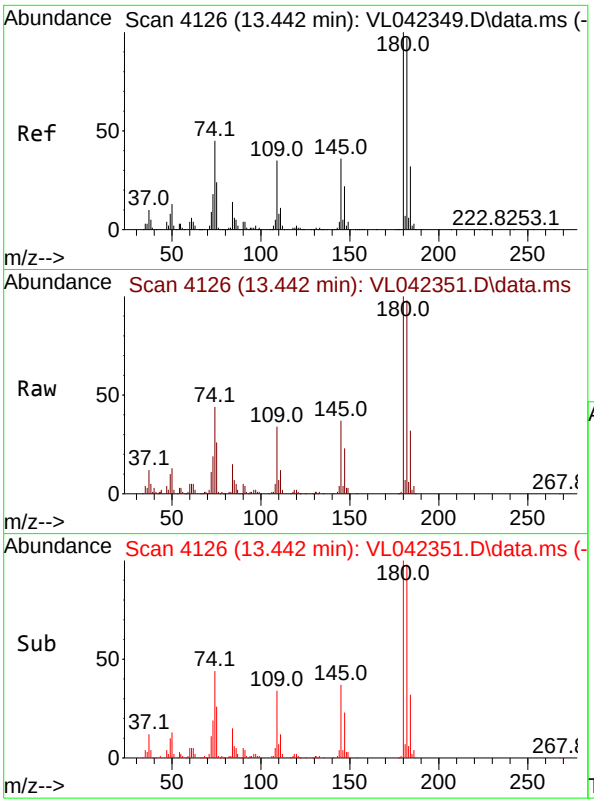




#80
Naphthalene,2-methyl-
Concen: 1.111 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:142 Resp: 50487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 80.9 | 66.8 | 100.2 |
| 115 | 41.2 | 33.4 | 50.2 |



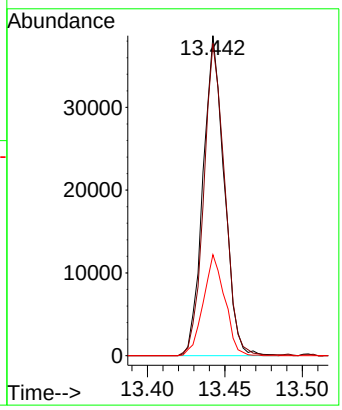



#81
1,2,4-Trichlorobenzene
Concen: 1.074 ppbv
RT: 13.442 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC001

Tgt Ion:180 Resp: 36764

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 97.0 | 76.8 | 115.2 |
| 184 | 32.0 | 24.6 | 36.8 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042352.D
Acq On : 17 Apr 2025 11:19
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Quant Time: Apr 18 01:28:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 2.784 | 49 | 120542 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.952 | 114 | 353137 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.878 | 117 | 321644 | 10.000 | ppbv | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.374 | 95 | 265161 | 10.032 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 100.300% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.499 | 85 | 11036 | 0.518 | ppbv | | 92 |
| 3) Chlorodifluoromethane | 1.476 | 51 | 11304 | 0.557 | ppbv | # | 84 |
| 4) Chloromethane | 1.531 | 50 | 4534 | 0.538 | ppbv | | 97 |
| 5) Vinyl Chloride | 1.580 | 62 | 4406 | 0.480 | ppbv | | 97 |
| 6) Bromomethane | 1.667 | 94 | 2394 | 0.602 | ppbv | | 95 |
| 7) Chloroethane | 1.703 | 64 | 1824 | 0.550 | ppbv | # | 87 |
| 8) Dichlorotetrafluoroethane | 1.554 | 85 | 9381 | 0.513 | ppbv | | 99 |
| 9) Propene | 1.483 | 41 | 5303 | 0.574 | ppbv | | 93 |
| 10) Heptane | 4.978 | 43 | 5438 | 0.219 | ppbv | # | 1 |
| 11) Trichlorofluoromethane | 1.877 | 101 | 10150 | 0.501 | ppbv | | 97 |
| 12) 1,1,2-Trichlorotrifluo... | 2.136 | 101 | 8371 | 0.506 | ppbv | | 93 |
| 13) Ethanol | 1.719 | 45 | 715 | 0.947 | ppbv | # | 24 |
| 14) Bromoethene | 1.780 | 108 | 3238 | 0.519 | ppbv | # | 93 |
| 15) Acetone | 1.835 | 43 | 11859 | 0.601 | ppbv | # | 74 |
| 16) 1,3-Butadiene | 1.609 | 39 | 6120 | 0.660 | ppbv | # | 82 |
| 17) tert-Butyl alcohol | 2.043 | 59 | 13640 | 0.558 | ppbv | # | 85 |
| 18) 1,1-Dichloroethene | 2.033 | 96 | 4430 | 0.556 | ppbv | # | 87 |
| 19) Isopropyl Alcohol | 1.884 | 45 | 6327 | 0.577 | ppbv | # | 39 |
| 20) Methylene Chloride | 2.059 | 84 | 5273 | 0.682 | ppbv | | 93 |
| 21) Allyl Chloride | 2.094 | 41 | 7692 | 0.565 | ppbv | # | 81 |
| 22) trans-1,2-Dichloroethene | 2.340 | 96 | 4908 | 0.557 | ppbv | | 92 |
| 23) Vinyl Acetate | 2.460 | 43 | 3953 | 0.495 | ppbv | # | 57 |
| 24) 1,1-Dichloroethane | 2.408 | 63 | 8753 | 0.523 | ppbv | # | 94 |
| 25) Ethyl Acetate | 2.835 | 43 | 26686 | 0.548 | ppbv | # | 93 |
| 26) Hexane | 2.823 | 57 | 11448 | 0.581 | ppbv | | 91 |
| 27) Carbon Disulfide | 2.149 | 76 | 11472 | 0.544 | ppbv | # | 1 |
| 28) Methyl tert-Butyl Ether | 2.441 | 73 | 6833 | 0.530 | ppbv | # | 32 |
| 29) Chloroform | 2.848 | 83 | 14815 | 0.532 | ppbv | | 93 |
| 30) Cyclohexane | 3.852 | 84 | 8572 | 0.541 | ppbv | | 94 |
| 31) cis-1,2-Dichloroethene | 2.722 | 61 | 9571 | 0.511 | ppbv | | 96 |
| 32) 1,1,1-Trichloroethane | 3.370 | 97 | 15413 | 0.516 | ppbv | | 97 |
| 34) 2-Butanone | 2.560 | 43 | 15640 | 0.560 | ppbv | | 97 |
| 35) Carbon Tetrachloride | 3.761 | 117 | 14683 | 0.459 | ppbv | | 87 |
| 36) Benzene | 3.651 | 78 | 20233 | 0.531 | ppbv | | 97 |
| 37) 1,2-Dichloroethane | 3.217 | 62 | 12194 | 0.533 | ppbv | # | 95 |
| 38) Trichloroethene | 4.551 | 130 | 7819 | 0.468 | ppbv | # | 78 |
| 39) 1,2-Dichloropropane | 4.315 | 63 | 3195 | 0.225 | ppbv | | 89 |
| 40) 1,4-Dioxane | 4.599 | 88 | 2550 | 0.331 | ppbv | # | 1 |
| 41) Tetrahydrofuran | 3.062 | 42 | 8773 | 0.544 | ppbv | | 95 |
| 42) Bromodichloromethane | 4.489 | 83 | 16642 | 0.523 | ppbv | # | 91 |
| 43) Methyl Methacrylate | 4.871 | 69 | 1556 | 0.091 | ppbv | # | 1 |
| 44) 2,2,4-Trimethylpentane | 4.635 | 57 | 34170 | 0.519 | ppbv | | 91 |
| 45) t-1,3-Dichloropropene | 6.393 | 75 | 1332 | 0.076 | ppbv | | 92 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042352.D
Acq On : 17 Apr 2025 11:19
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Quant Time: Apr 18 01:28:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.596 | 75 | 7634 | 0.356 | ppbv | # | 91 |
| 47) 1,1,2-Trichloroethane | 6.590 | 97 | 2374 | 0.164 | ppbv | | 94 |
| 48) Dibromochloromethane | 7.386 | 129 | 13122 | 0.514 | ppbv | | 97 |
| 49) Bromoform | 9.477 | 173 | 10988 | 0.492 | ppbv | | 99 |
| 50) 4-Methyl-2-Pentanone | 5.761 | 43 | 14380 | 0.309 | ppbv | # | 39 |
| 51) 2-Hexanone | 7.441 | 43 | 23684 | 0.564 | ppbv | | 98 |
| 52) Tetrachloroethene | 8.221 | 164 | 7412 | 0.503 | ppbv | # | 88 |
| 53) Toluene | 6.927 | 91 | 24200 | 0.529 | ppbv | | 97 |
| 54) 1,2-Dibromoethane | 7.645 | 107 | 10282 | 0.499 | ppbv | | 84 |
| 56) 1,1,1,2-Tetrachloroethane | 8.930 | 131 | 9987 | 0.513 | ppbv | # | 1 |
| 57) Chlorobenzene | 8.924 | 112 | 6884 | 0.206 | ppbv | | 90 |
| 58) Ethyl Benzene | 9.351 | 91 | 32624 | 0.512 | ppbv | | 97 |
| 59) m/p-Xylene | 9.548 | 91 | 22598 | 0.439 | ppbv | # | 32 |
| 60) o-Xylene | 9.963 | 91 | 27983 | 0.541 | ppbv | | 99 |
| 61) Styrene | 9.869 | 104 | 12736 | 0.516 | ppbv | | 96 |
| 62) Isopropylbenzene | 10.539 | 105 | 40481 | 0.533 | ppbv | | 100 |
| 63) 1,1,2,2-Tetrachloroethane | 9.959 | 83 | 15920 | 0.474 | ppbv | | 99 |
| 64) n-propylbenzene | 10.985 | 120 | 10369 | 0.544 | ppbv | | 97 |
| 65) tert-Butylbenzene | 11.529 | 119 | 37294 | 0.535 | ppbv | | 93 |
| 66) Benzyl Chloride | 11.613 | 91 | 3878 | 0.506 | ppbv | # | 91 |
| 67) sec-Butylbenzene | 11.765 | 105 | 52139 | 0.537 | ppbv | | 97 |
| 69) p-Isopropyltoluene | 11.924 | 119 | 45574 | 0.541 | ppbv | | 98 |
| 70) n-Butylbenzene | 12.280 | 91 | 48004 | 0.547 | ppbv | | 99 |
| 71) 2-Chlorotoluene | 10.898 | 91 | 31709 | 0.533 | ppbv | | 100 |
| 72) 4-Ethyltoluene | 11.125 | 105 | 33048 | 0.523 | ppbv | # | 95 |
| 73) 1,3,5-Trimethylbenzene | 11.202 | 105 | 30464 | 0.546 | ppbv | | 99 |
| 74) 1,2,4-Trimethylbenzene | 11.536 | 105 | 37765 | 0.579 | ppbv | # | 90 |
| 75) 1,3-Dichlorobenzene | 11.607 | 146 | 18003 | 0.531 | ppbv | | 99 |
| 76) 1,4-Dichlorobenzene | 11.668 | 146 | 18300 | 0.537 | ppbv | | 96 |
| 77) 1,2-Dichlorobenzene | 11.947 | 146 | 17446 | 0.530 | ppbv | | 95 |
| 78) Hexachloro-1,3-Butadiene | 13.879 | 225 | 18705 | 0.562 | ppbv | | 98 |
| 79) Naphthalene | 13.513 | 128 | 38521 | 0.494 | ppbv | # | 92 |
| 80) Naphthalene,2-methyl- | 14.458 | 142 | 21076 | 0.475 | ppbv | | 96 |
| 81) 1,2,4-Trichlorobenzene | 13.442 | 180 | 16504 | 0.493 | ppbv | | 97 |

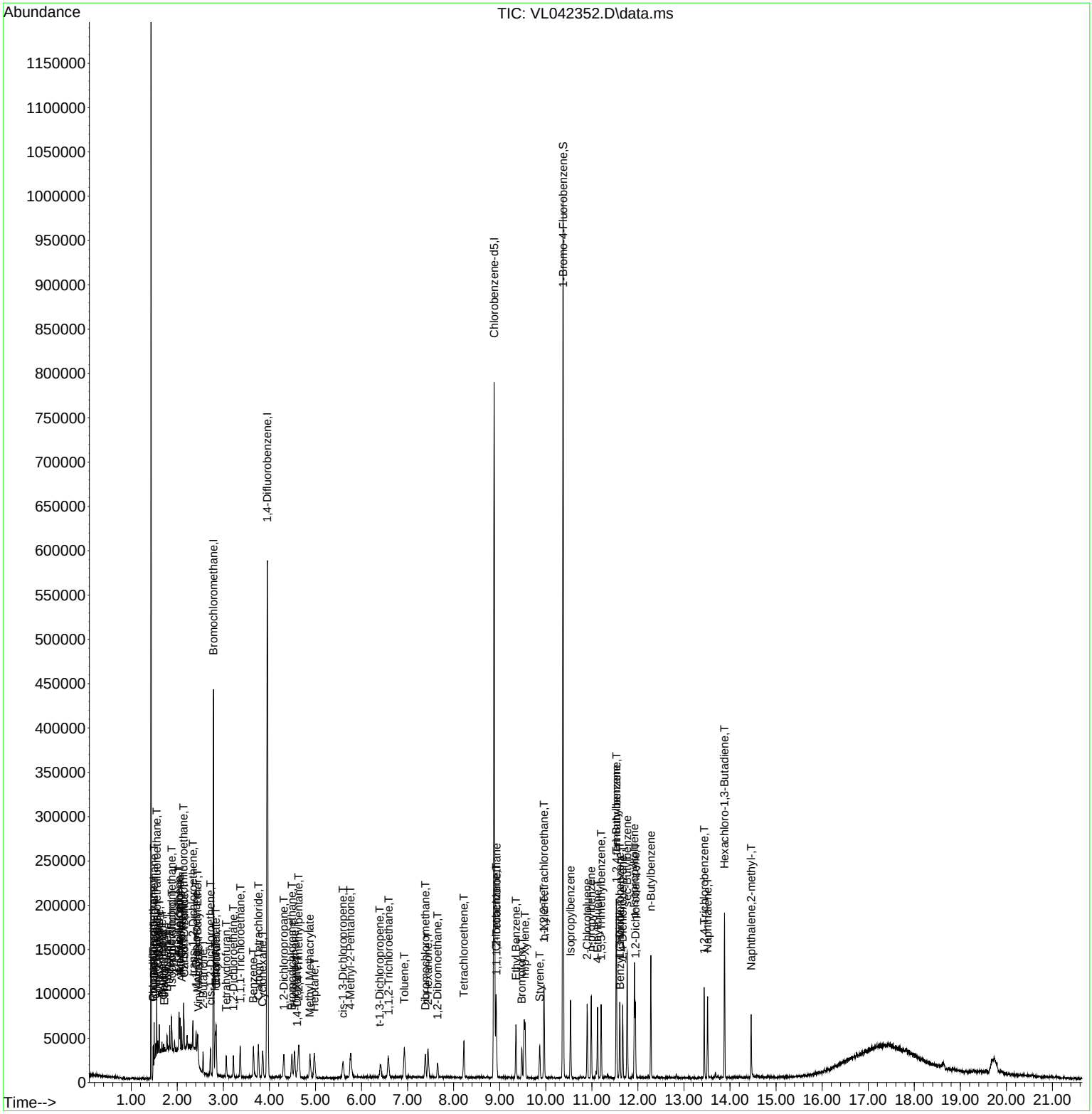
(#) = qualifier out of range (m) = manual integration (+) = signals summed

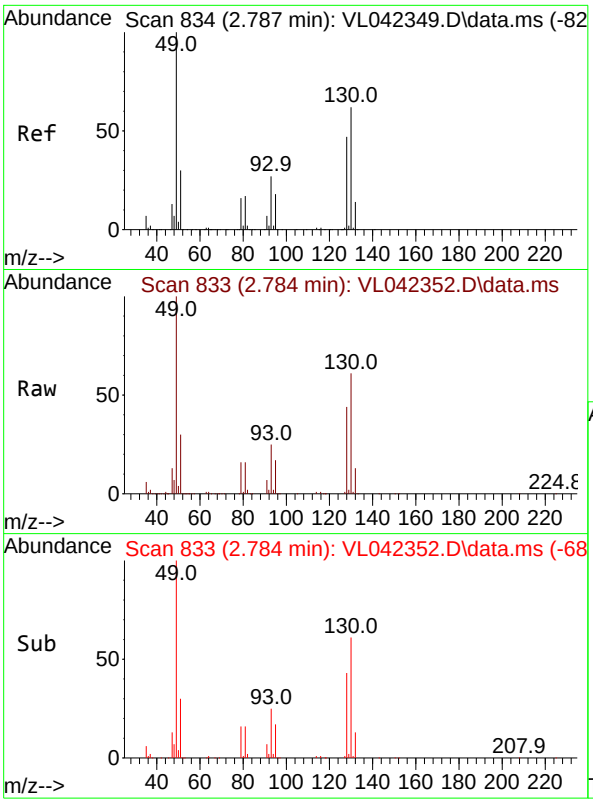
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042352.D
Acq On : 17 Apr 2025 11:19
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Quant Time: Apr 18 01:28:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration



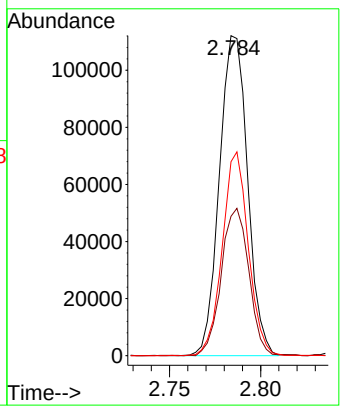


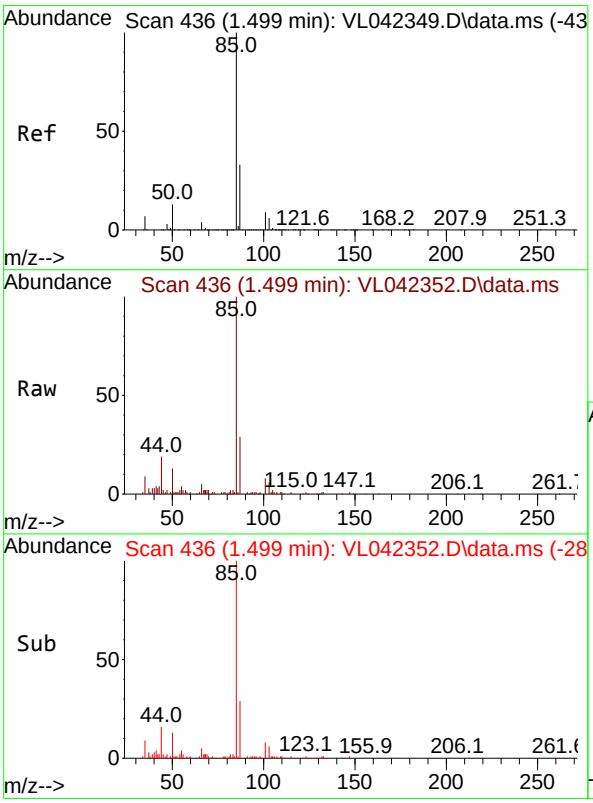

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion: 49 Resp: 120542

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 45.3 | 22.8 | 68.4 |
| 130 | 59.0 | 29.3 | 88.0 |

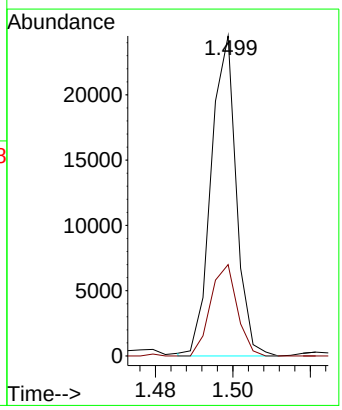


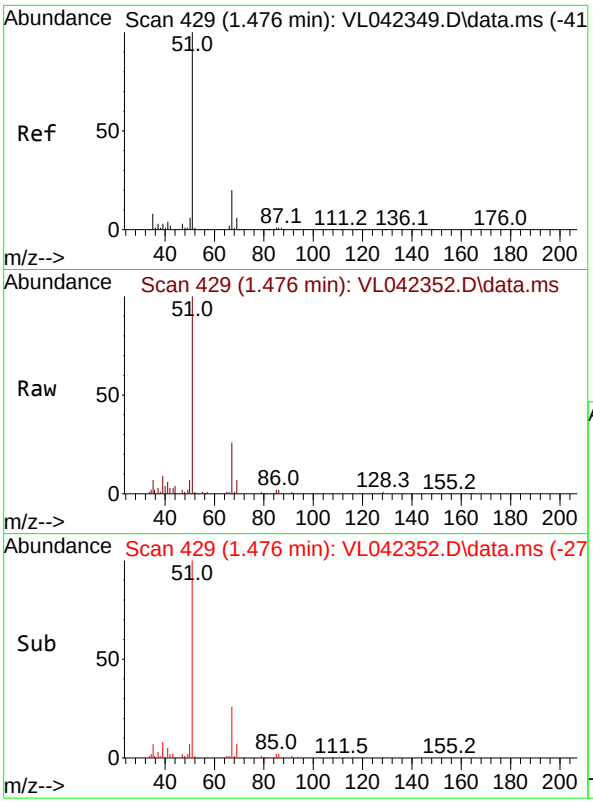




#2
Dichlorodifluoromethane
Concen: 0.518 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 85 Resp: 11036

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 28.6 | 26.6 | 39.8 |



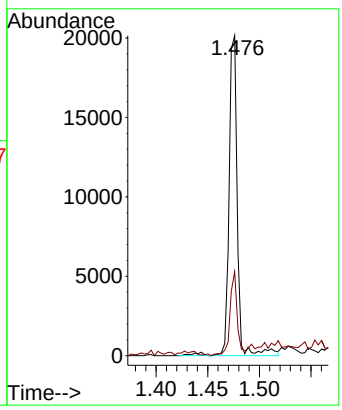


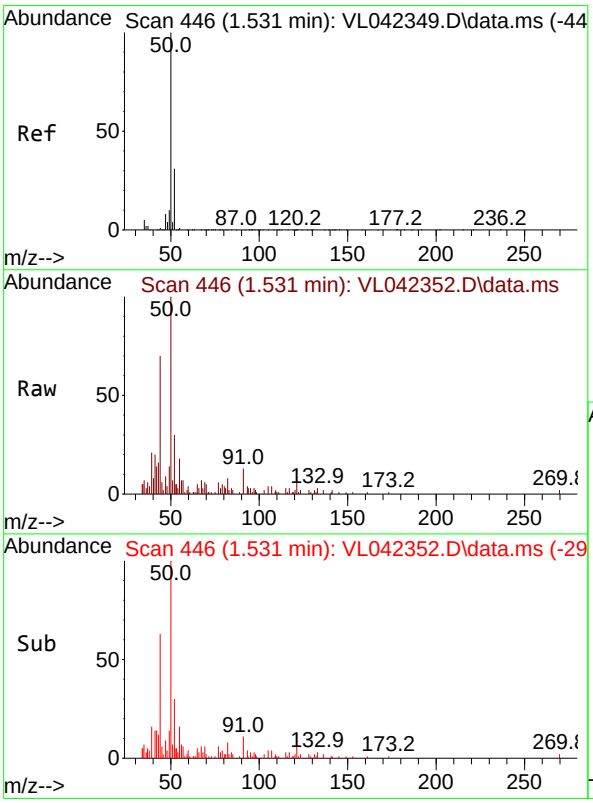

#3
Chlorodifluoromethane
Concen: 0.557 ppbv
RT: 1.476 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion: 51 Resp: 11304

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 27.8 | 16.2 | 24.4# |

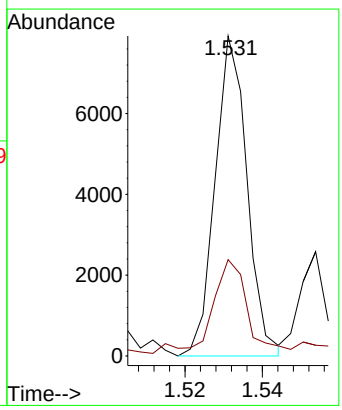


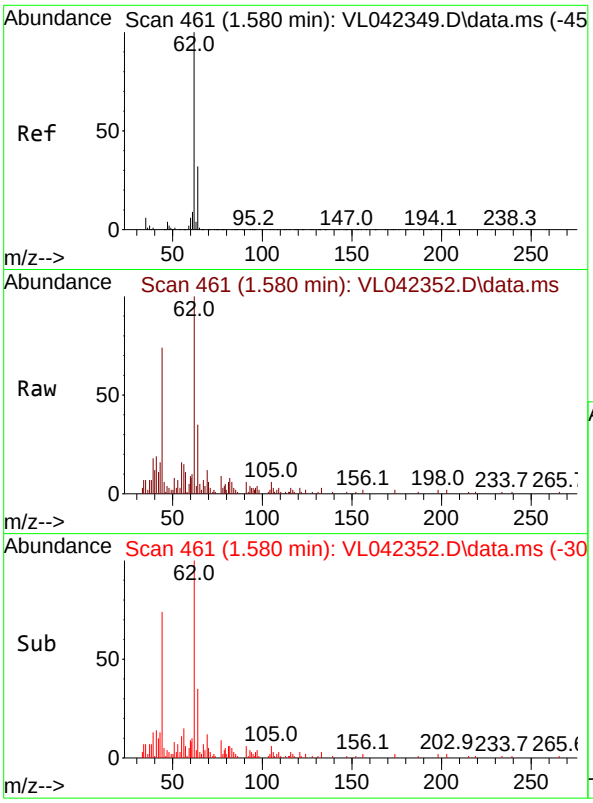




#4
Chloromethane
Concen: 0.538 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 50 Resp: 4534

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.8 | 24.7 | 37.1 |



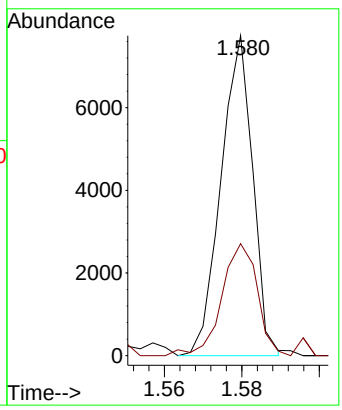


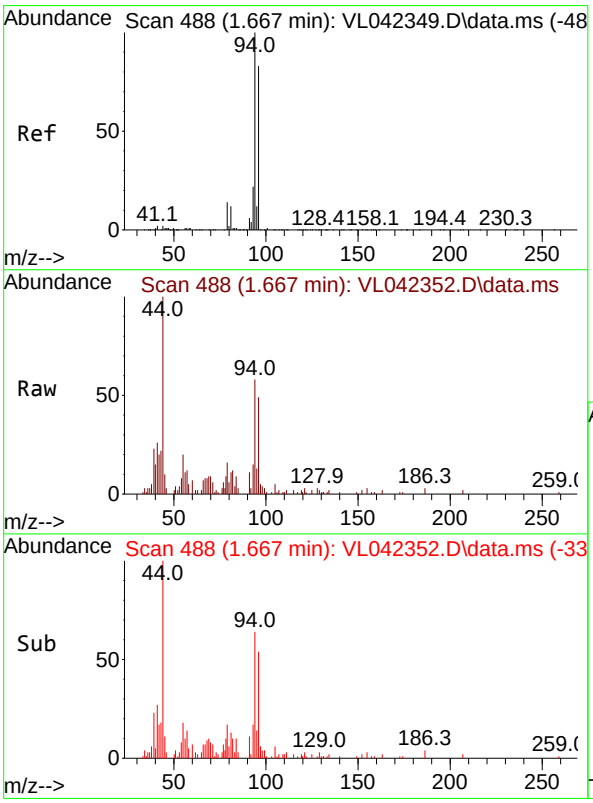

#5
Vinyl Chloride
Concen: 0.480 ppbv
RT: 1.580 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion: 62 Resp: 4406

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 33.5 | 25.4 | 38.0 |

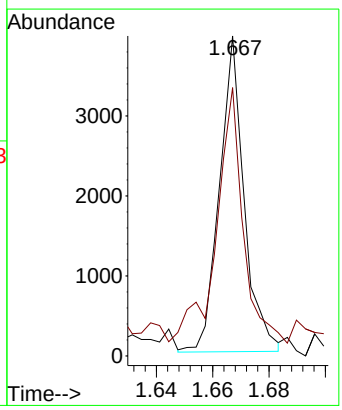


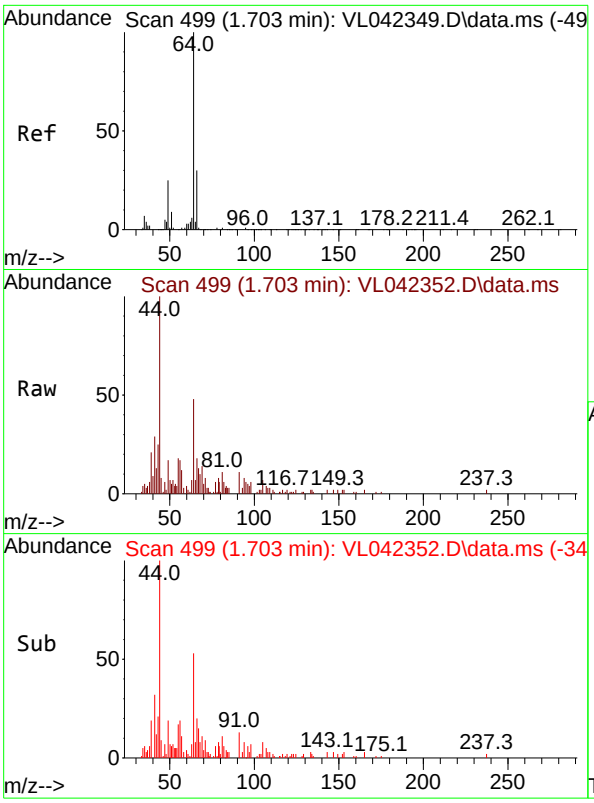




#6
Bromomethane
Concen: 0.602 ppbv
RT: 1.667 min Scan# 488
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 94 Resp: 2394

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 78.1 | 66.2 | 99.2 |



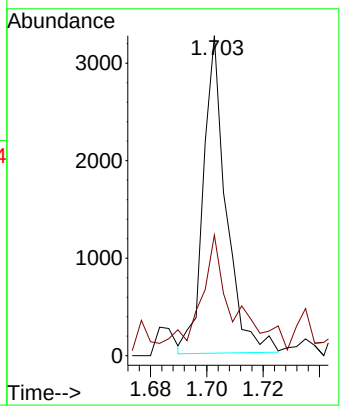


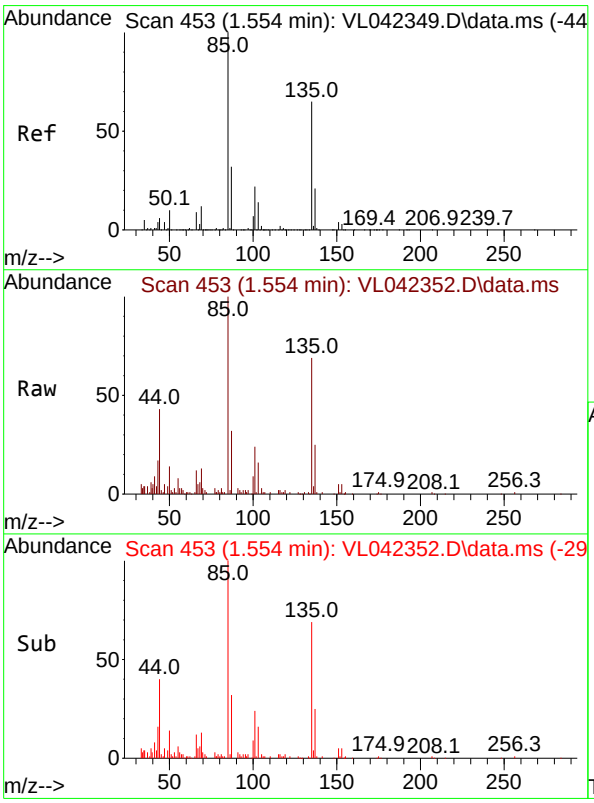

#7
Chloroethane
Concen: 0.550 ppbv
RT: 1.703 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion: 64 Resp: 1824

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 37.7 | 24.6 | 37.0# |

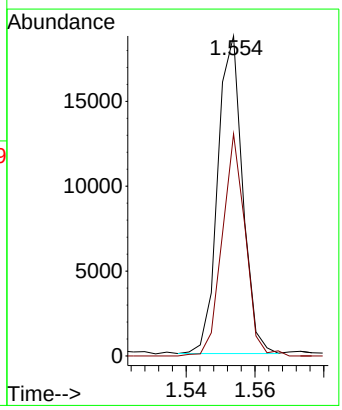


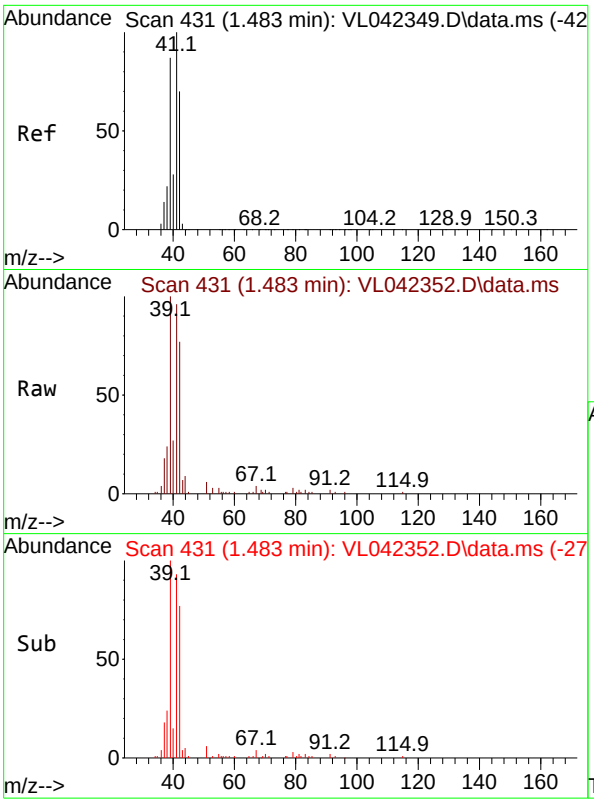




#8
Dichlorotetrafluoroethane
Concen: 0.513 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 85 Resp: 9381

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 66.2 | 52.2 | 78.2 |



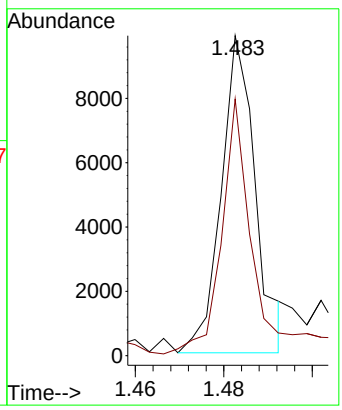


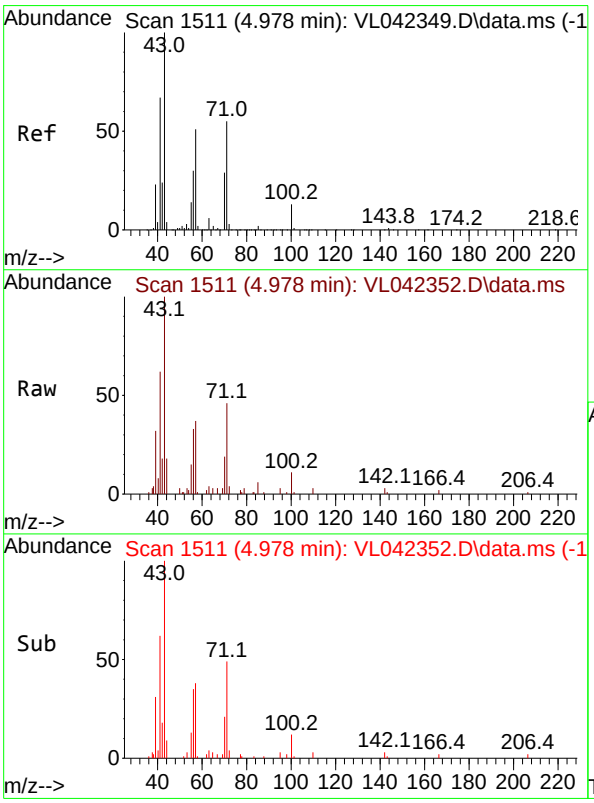

#9
Propene
Concen: 0.574 ppbv
RT: 1.483 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion: 41 Resp: 5303

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 64.8 | 56.2 | 84.4 |

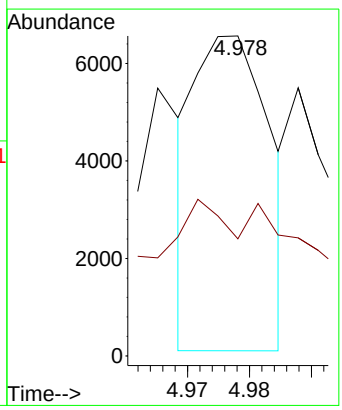


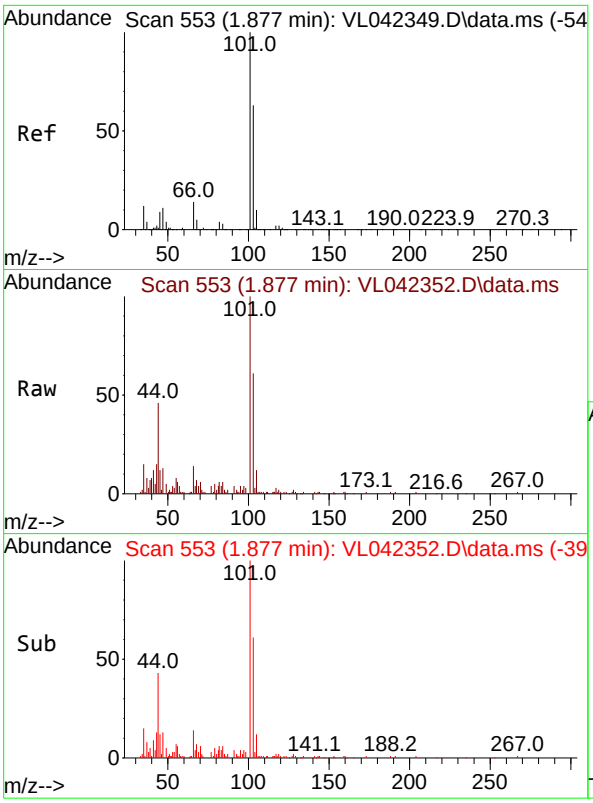




#10
Heptane
Concen: 0.219 ppbv
RT: 4.978 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 43 Resp: 5438

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 138.4 | 39.9 | 59.9# |



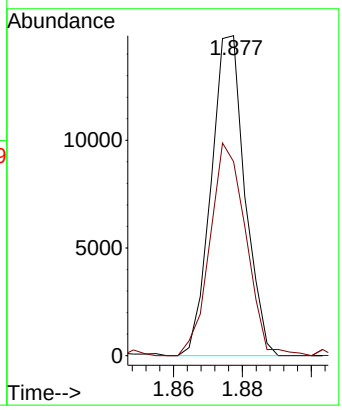


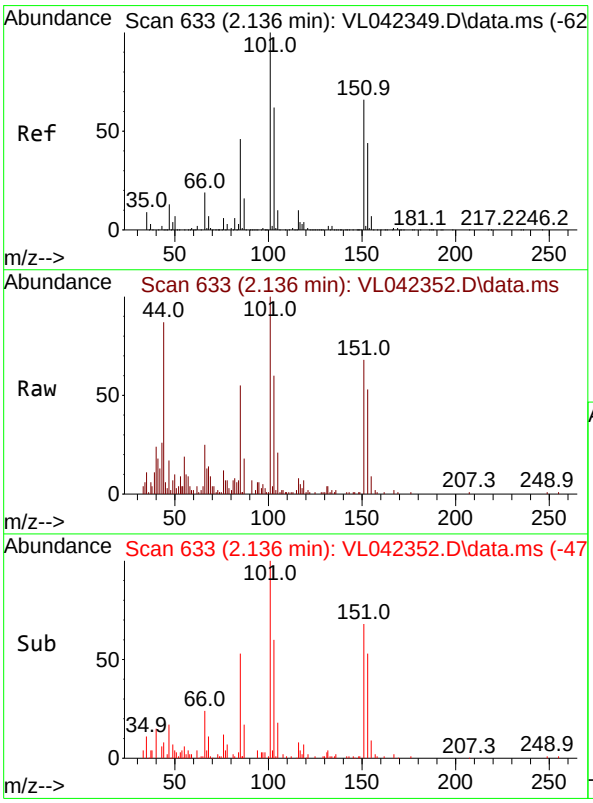

#11
Trichlorofluoromethane
Concen: 0.501 ppbv
RT: 1.877 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion:101 Resp: 10150

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 60.6 | 50.1 | 75.1 |

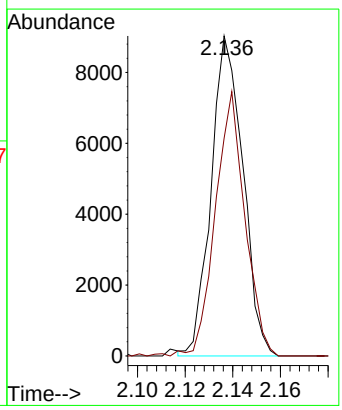


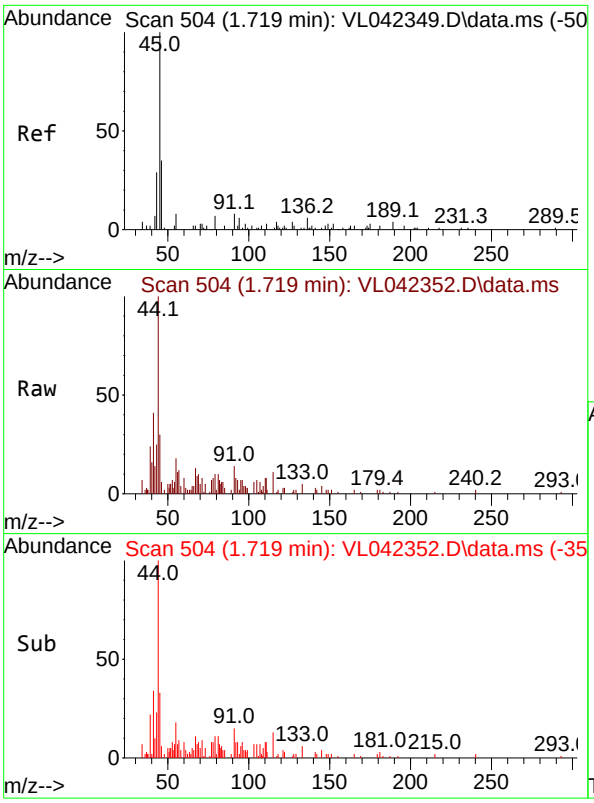




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.506 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:101 Resp: 8371

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 77.4 | 57.0 | 85.6 |



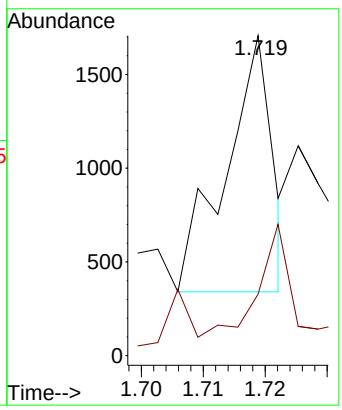


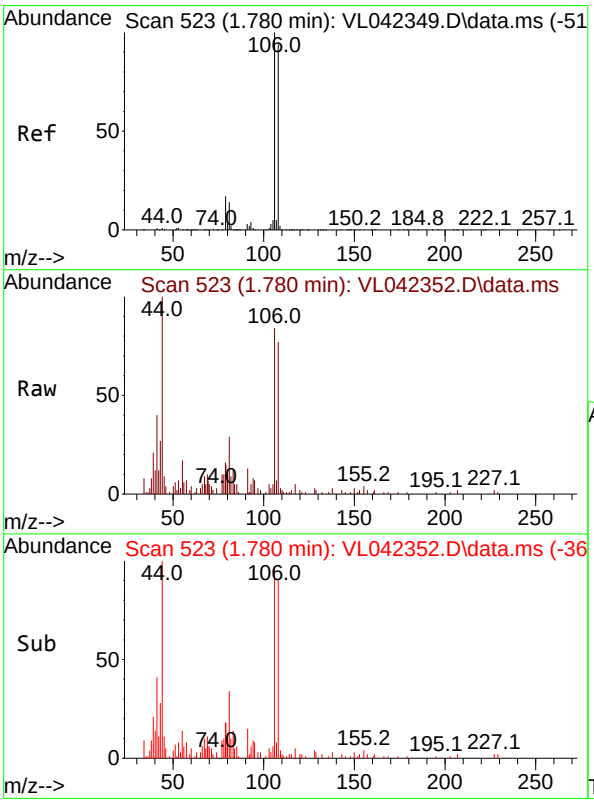

#13
Ethanol
Concen: 0.947 ppbv
RT: 1.719 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion: 45 Resp: 715

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 0.0 | 21.9 | 87.7# |

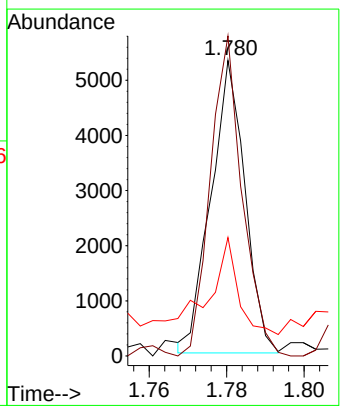


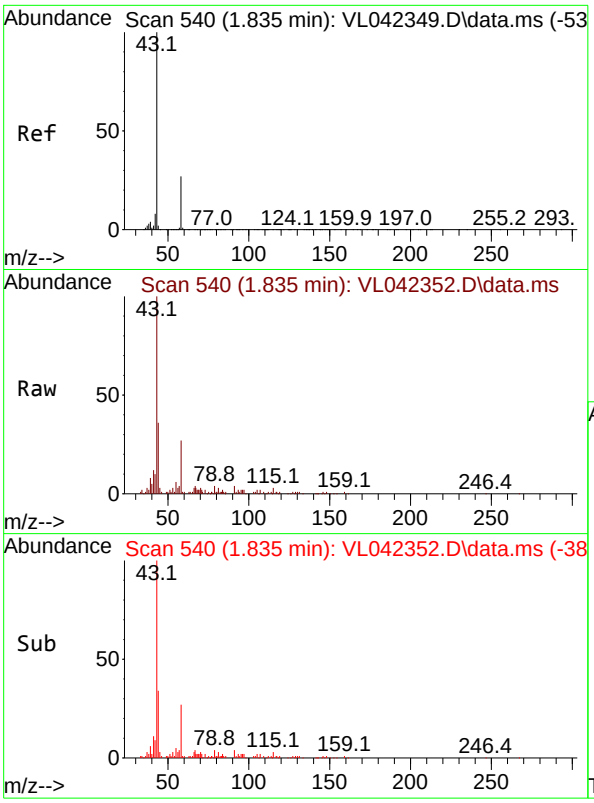




#14
Bromoethene
Concen: 0.519 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:108 Resp: 3238

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 106 | 110.3 | 85.9 | 128.9 |
| 79 | 33.0 | 13.9 | 20.9# |



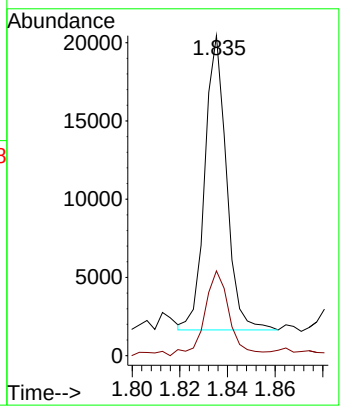


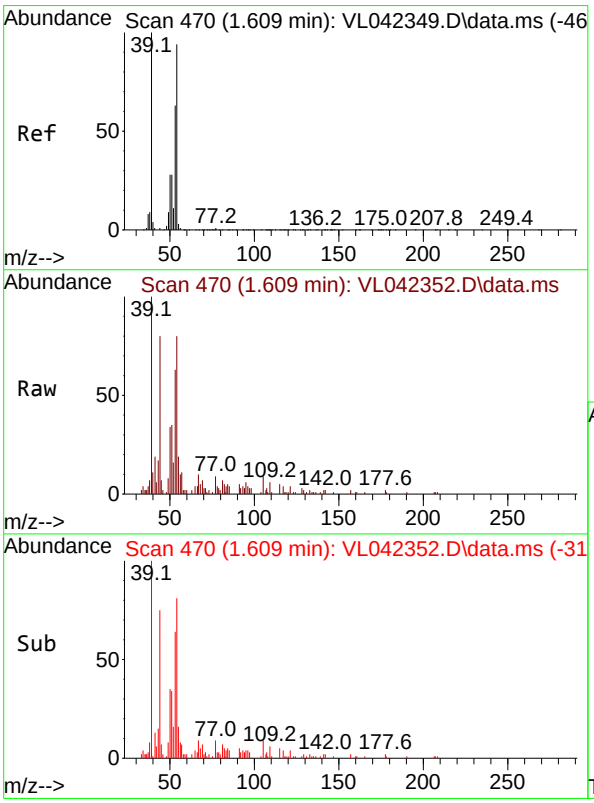

#15
Acetone
Concen: 0.601 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion: 43 Resp: 11859

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 41.7 | 22.4 | 33.6# |

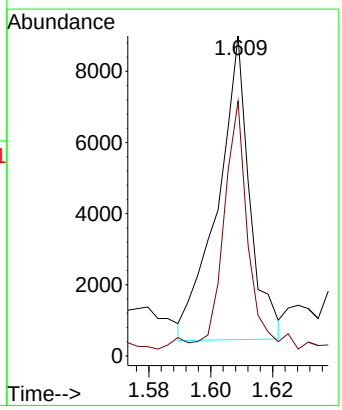


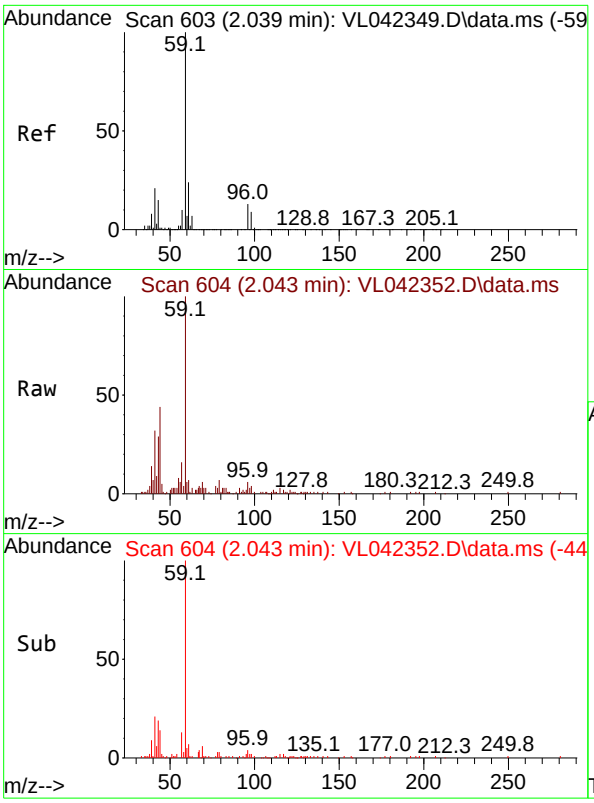




#16
1,3-Butadiene
Concen: 0.660 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 39 Resp: 6120

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 64.7 | 64.9 | 97.3# |



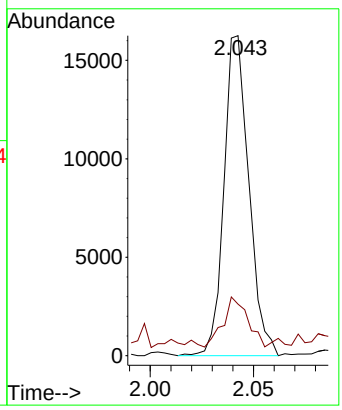


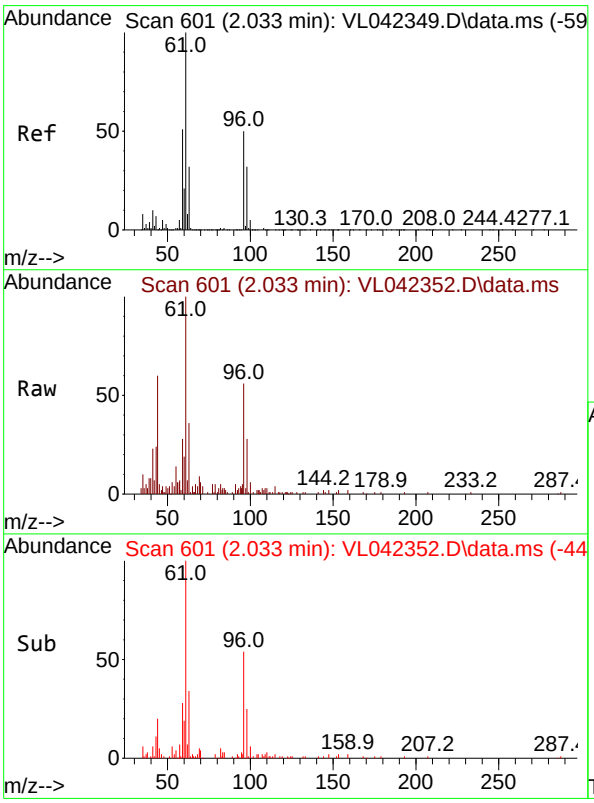

#17
tert-Butyl alcohol
Concen: 0.558 ppbv
RT: 2.043 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion: 59 Resp: 13640

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 16.5 | 8.7 | 13.1# |

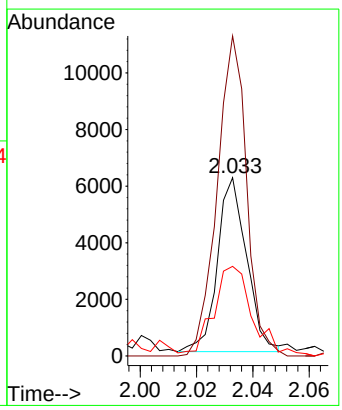


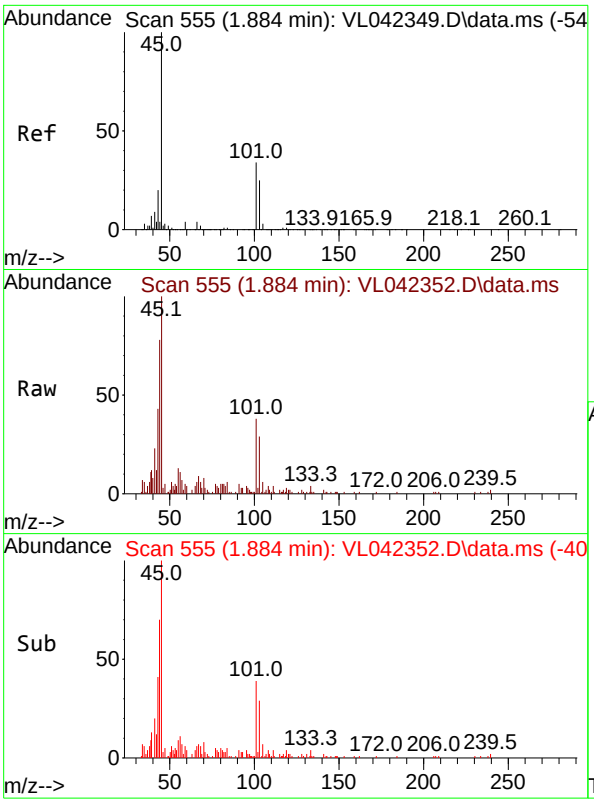




#18
1,1-Dichloroethene
Concen: 0.556 ppbv
RT: 2.033 min Scan# 601
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 96 Resp: 4430

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 183.9 | 160.2 | 240.2 |
| 98 | 49.7 | 51.0 | 76.4# |



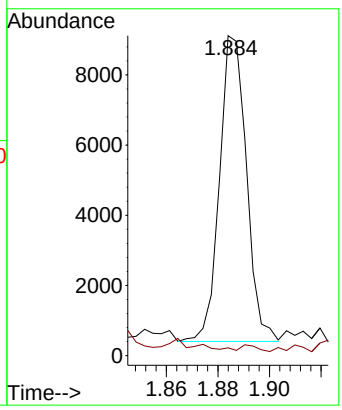


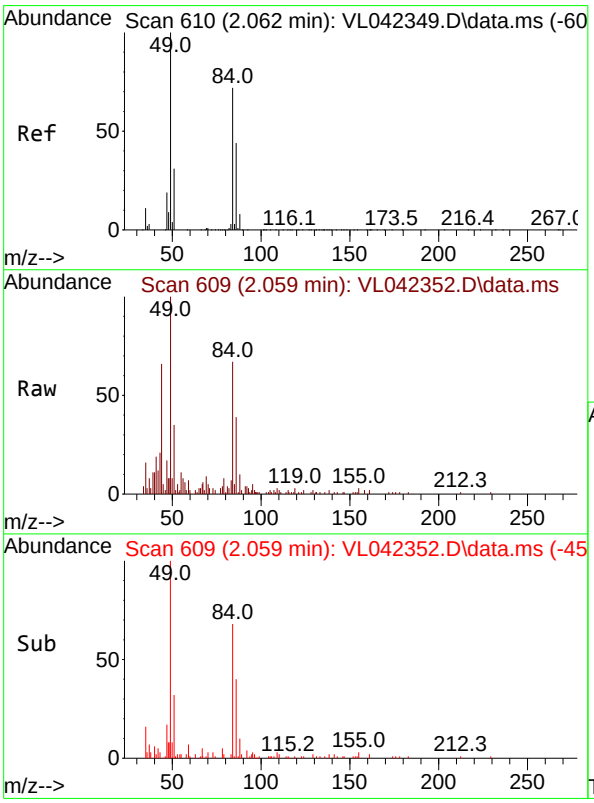

#19
Isopropyl Alcohol
Concen: 0.577 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion: 45 Resp: 6327

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 3.8 | 34.5 | 51.7# |

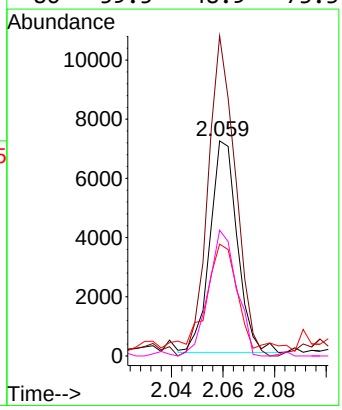


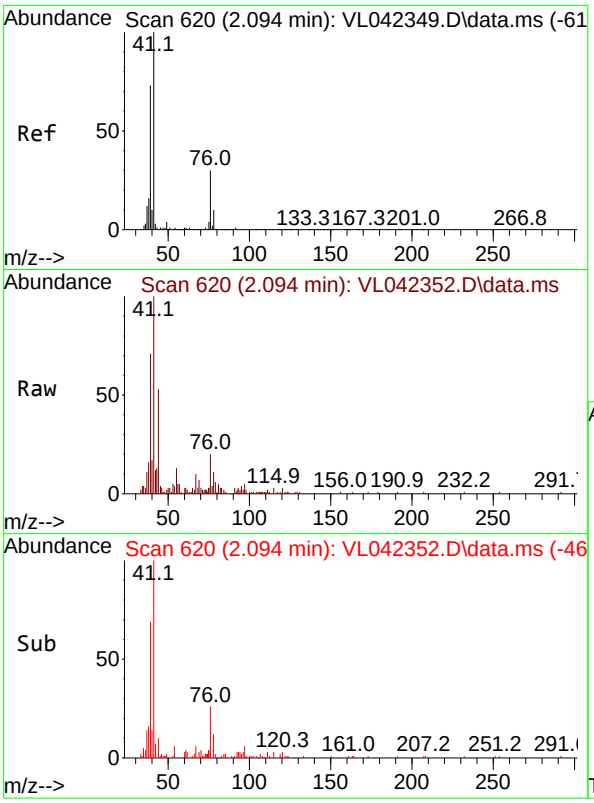




#20
Methylene Chloride
Concen: 0.682 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 84 Resp: 5273

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 151.3 | 111.6 | 167.4 |
| 51 | 48.1 | 35.1 | 52.7 |
| 86 | 59.5 | 48.9 | 73.3 |



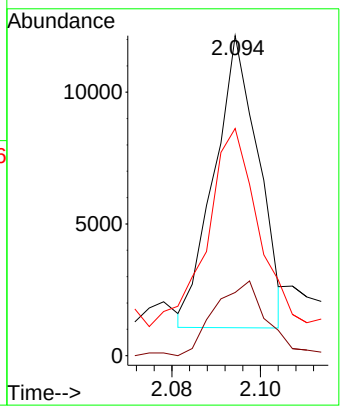


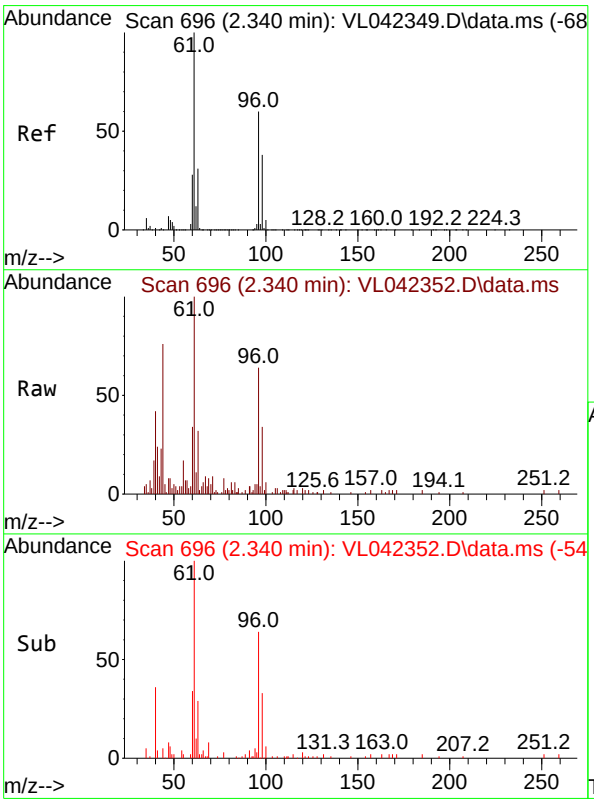

#21
Allyl Chloride
Concen: 0.565 ppbv
RT: 2.094 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion: 41 Resp: 7692

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 31.1 | 24.8 | 37.2 |
| 39 | 98.8 | 60.6 | 90.8# |

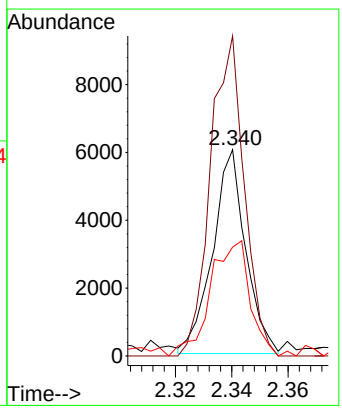


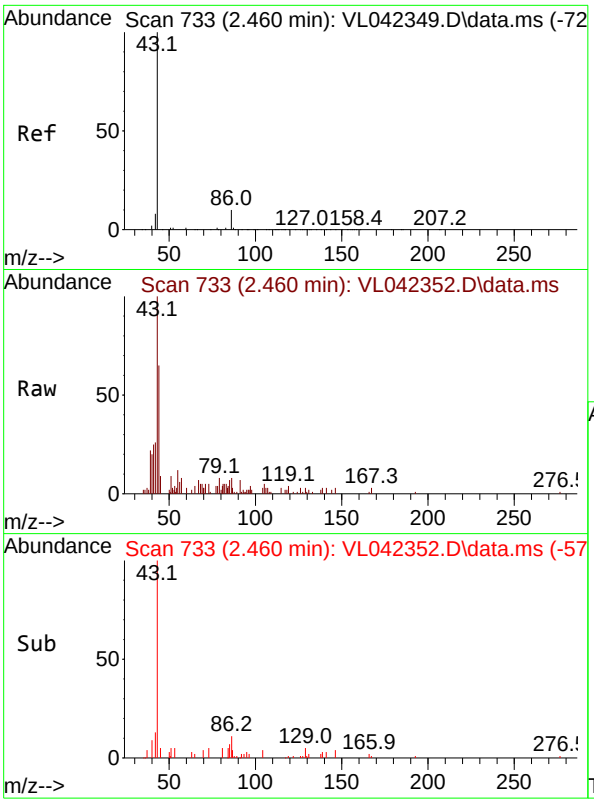




#22
trans-1,2-Dichloroethene
Concen: 0.557 ppbv
RT: 2.340 min Scan# 696
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 96 Resp: 4908

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 158.7 | 133.7 | 200.5 |
| 98 | 54.0 | 50.3 | 75.5 |



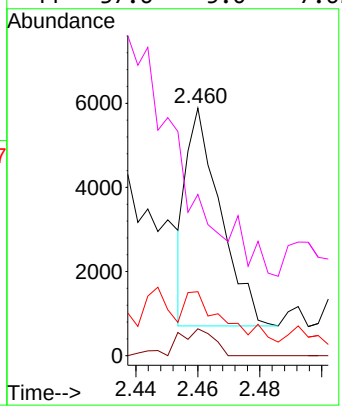


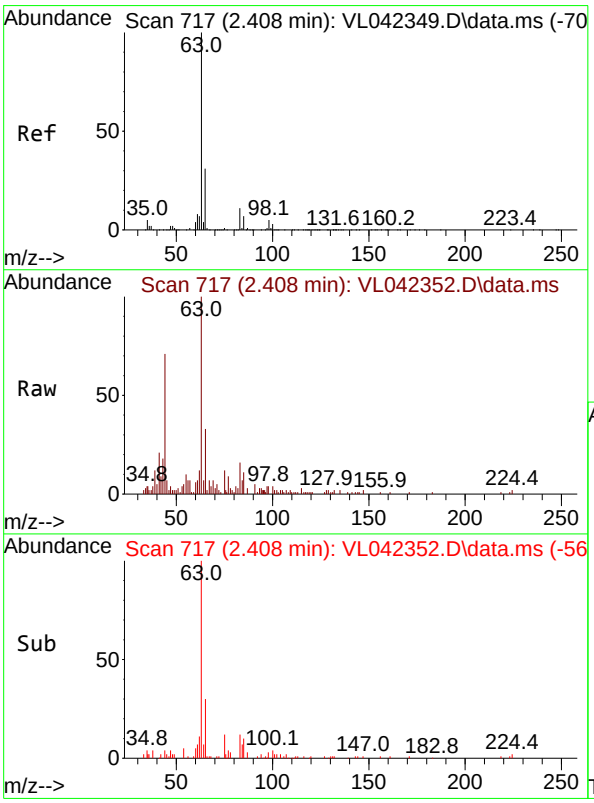

#23
Vinyl Acetate
Concen: 0.495 ppbv
RT: 2.460 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion: 43 Resp: 3953

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 12.4 | 6.5 | 9.7# |
| 42 | 23.2 | 7.8 | 11.8# |
| 44 | 37.6 | 5.0 | 7.6# |

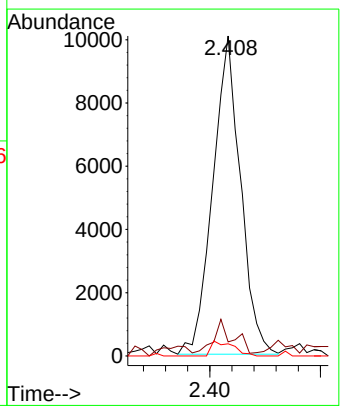


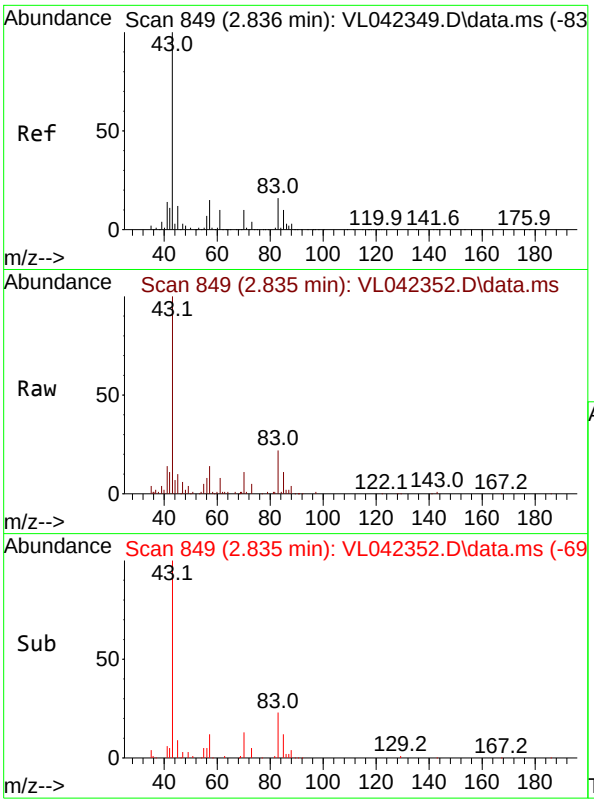




#24
1,1-Dichloroethane
Concen: 0.523 ppbv
RT: 2.408 min Scan# 717
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 63 Resp: 8753

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 1.4 | 2.3 | 6.8# |
| 100 | 3.8 | 1.6 | 4.8 |



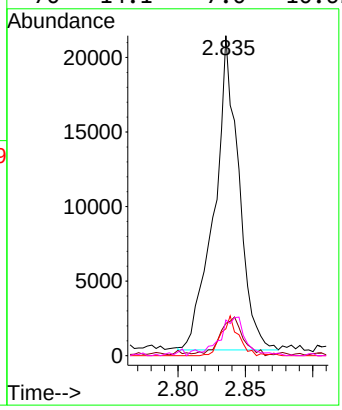


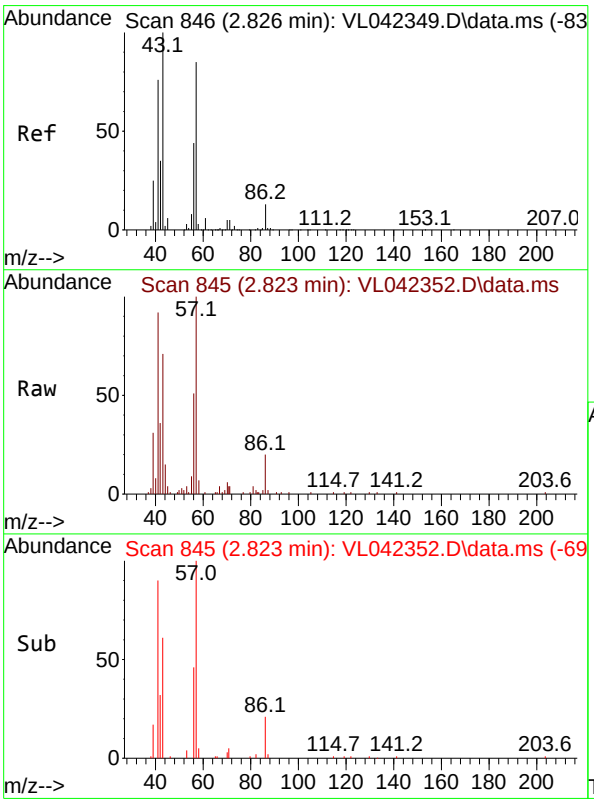

#25
Ethyl Acetate
Concen: 0.548 ppbv
RT: 2.835 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion: 43 Resp: 26686

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 13.3 | 8.3 | 12.5# |
| 61 | 9.0 | 7.3 | 10.9 |
| 70 | 14.1 | 7.0 | 10.6# |

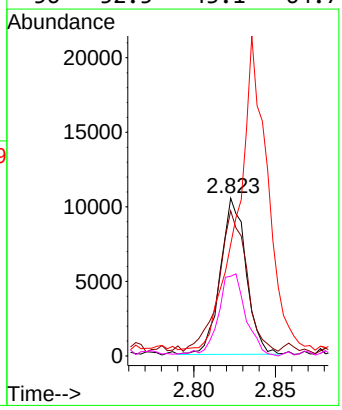


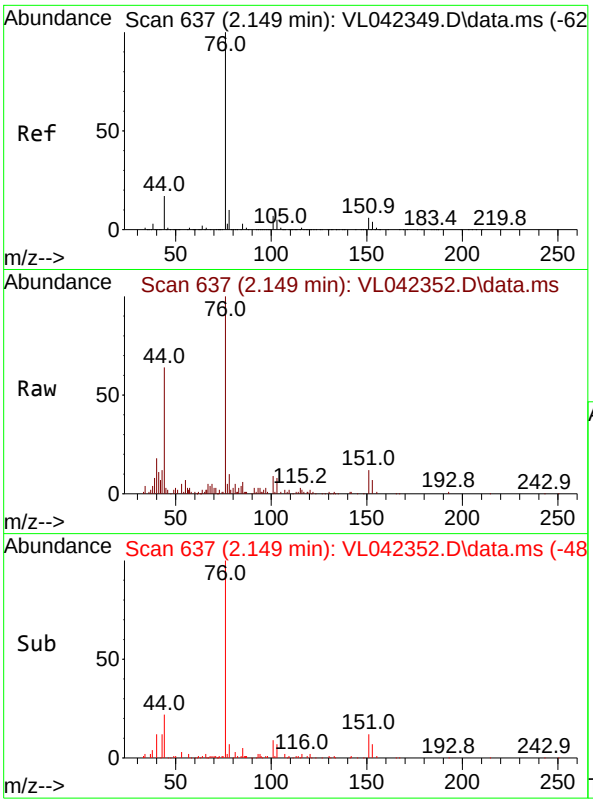




#26
Hexane
Concen: 0.581 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 57 Resp: 11448

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 103.5 | 77.9 | 116.9 |
| 43 | 240.0 | 208.4 | 312.6 |
| 56 | 52.5 | 43.1 | 64.7 |



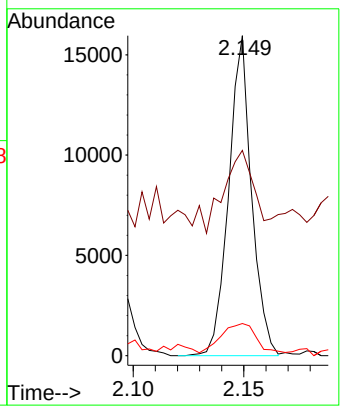


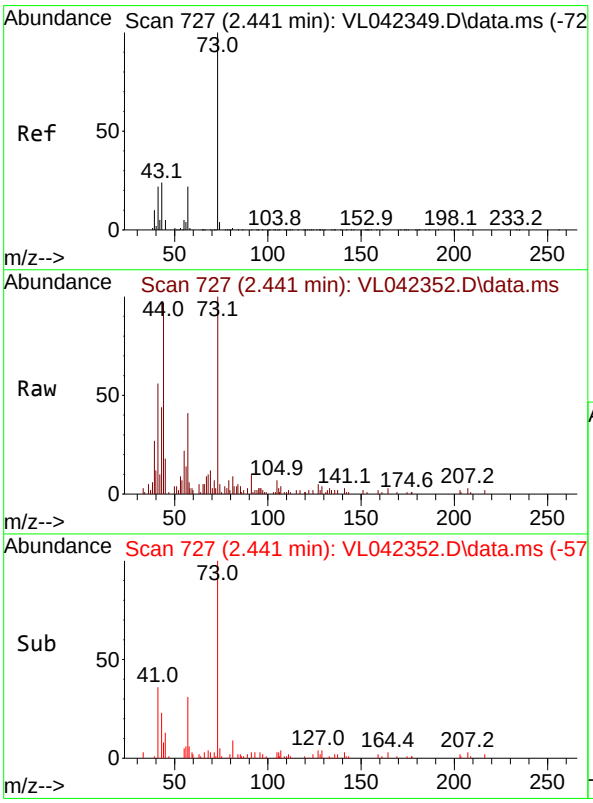

#27
Carbon Disulfide
Concen: 0.544 ppbv
RT: 2.149 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion: 76 Resp: 11472

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 123.7 | 15.5 | 23.3# |
| 78 | 18.8 | 9.3 | 13.9# |

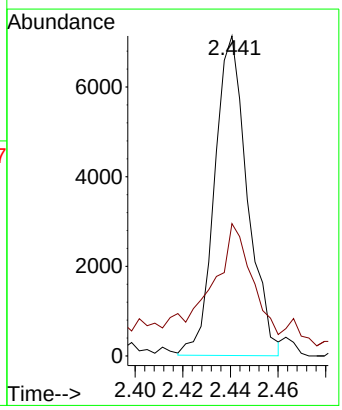


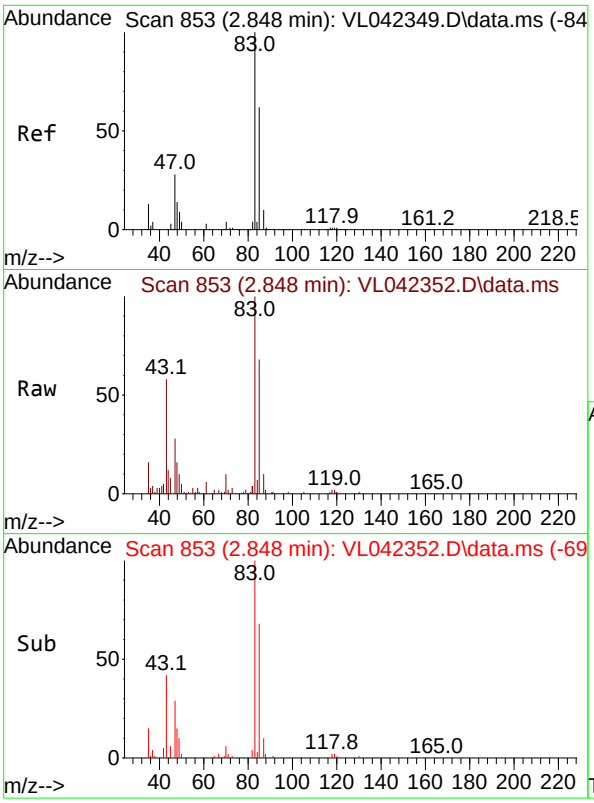




#28
Methyl tert-Butyl Ether
Concen: 0.530 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 73 Resp: 6833

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 61.8 | 21.3 | 31.9# |



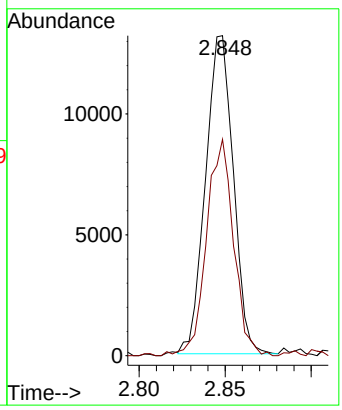


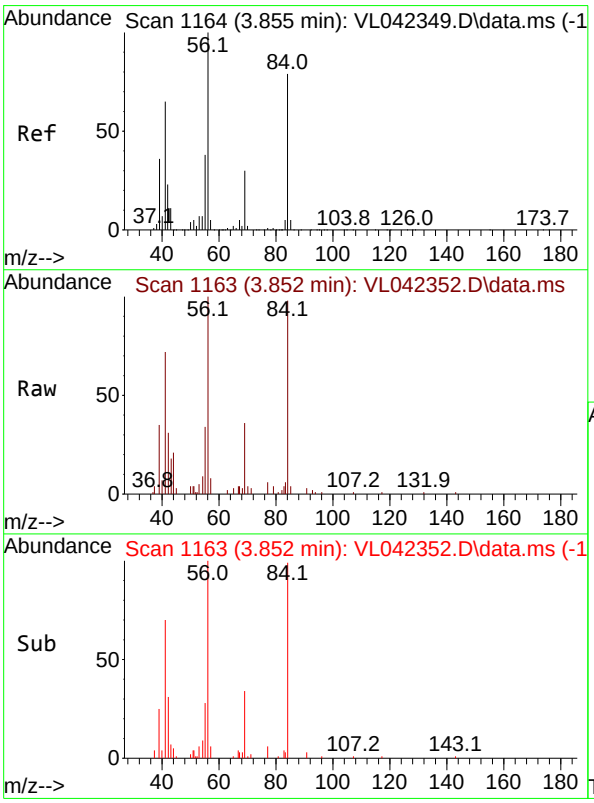

#29
Chloroform
Concen: 0.532 ppbv
RT: 2.848 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion: 83 Resp: 14815

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 68.0 | 50.0 | 75.0 |

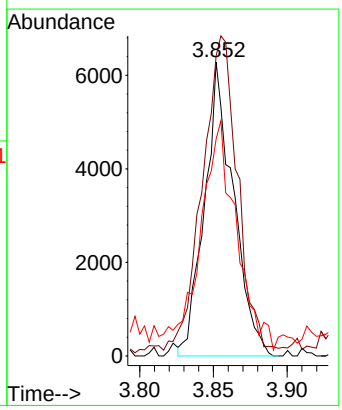


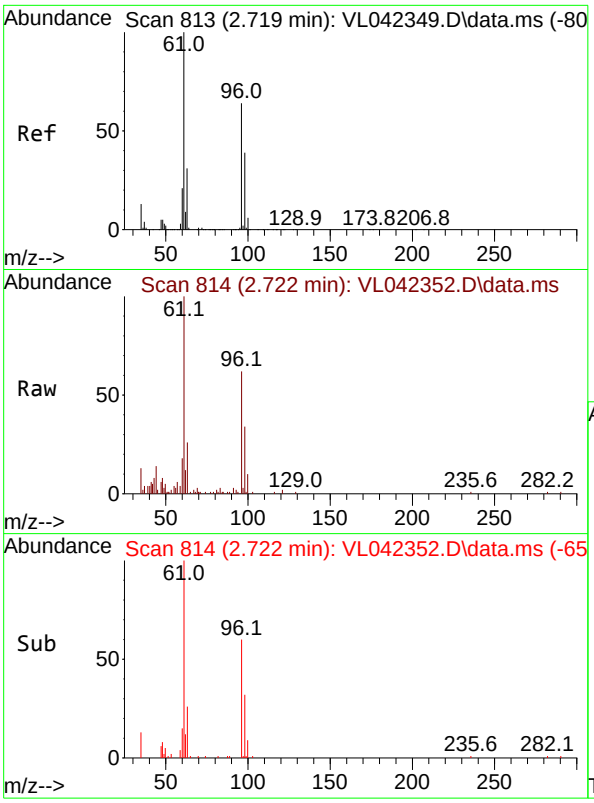




#30
Cyclohexane
Concen: 0.541 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 84 Resp: 8572

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 132.8 | 101.0 | 151.4 |
| 41 | 89.8 | 67.4 | 101.0 |



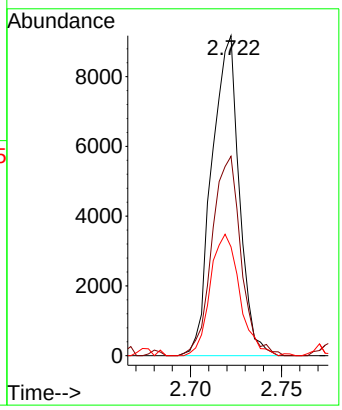


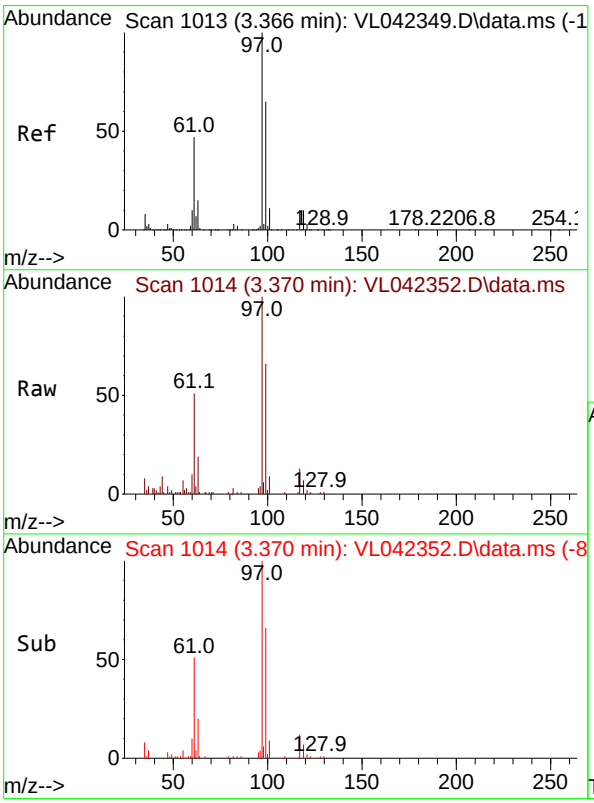

#31
cis-1,2-Dichloroethene
Concen: 0.511 ppbv
RT: 2.722 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion: 61 Resp: 9571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 62.3 | 50.8 | 76.2 |
| 98 | 34.0 | 30.9 | 46.3 |

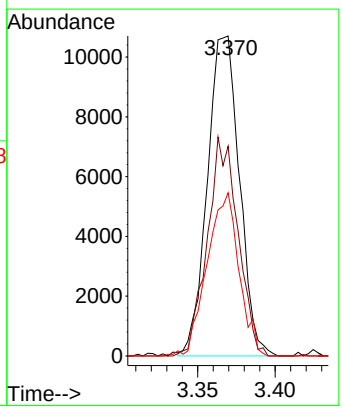


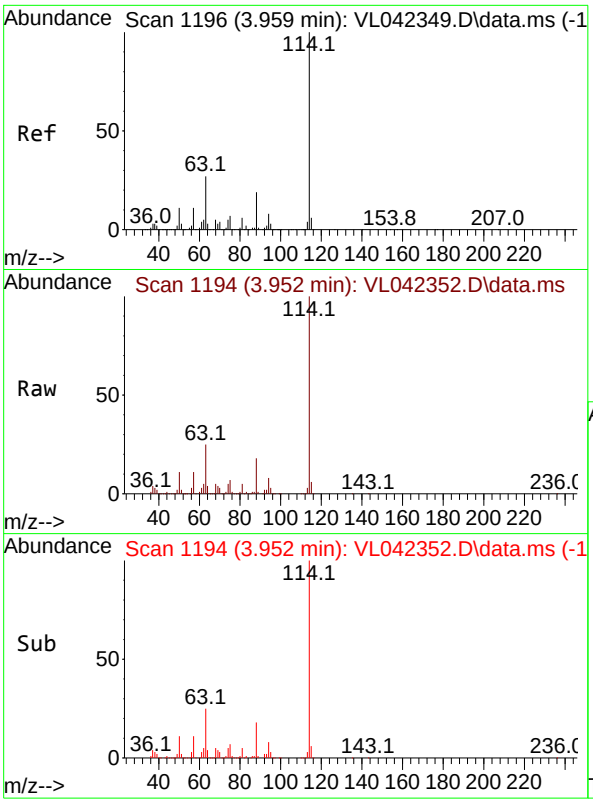




#32
1,1,1-Trichloroethane
Concen: 0.516 ppbv
RT: 3.370 min Scan# 1014
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 97 Resp: 15413

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 65.6 | 51.0 | 76.4 |
| 61 | 50.8 | 38.8 | 58.2 |



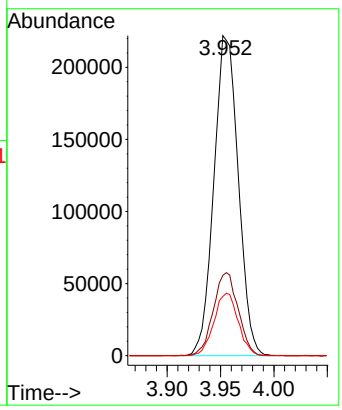


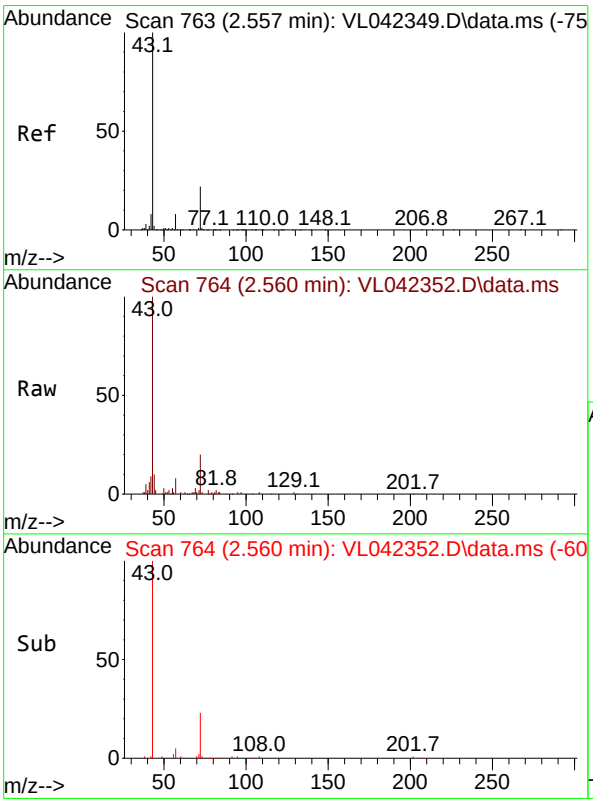

#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 11
Delta R.T. -0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion:114 Resp: 353137

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 26.3 | 21.8 | 32.6 |
| 88 | 19.4 | 15.5 | 23.3 |

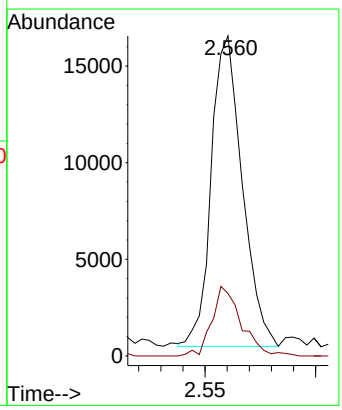


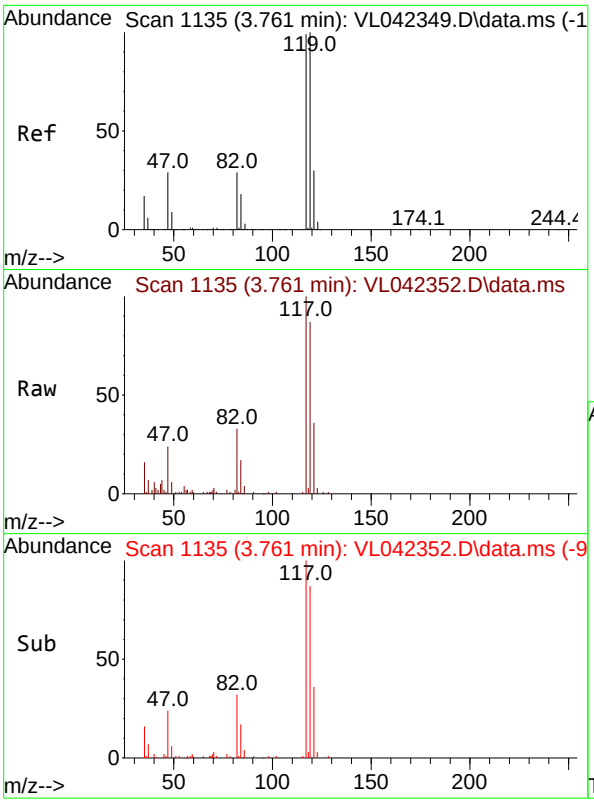




#34
2-Butanone
Concen: 0.560 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 43 Resp: 15640

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 21.3 | 18.2 | 27.2 |



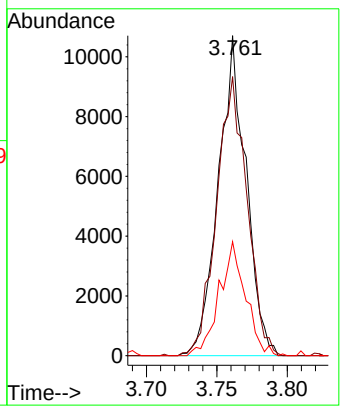


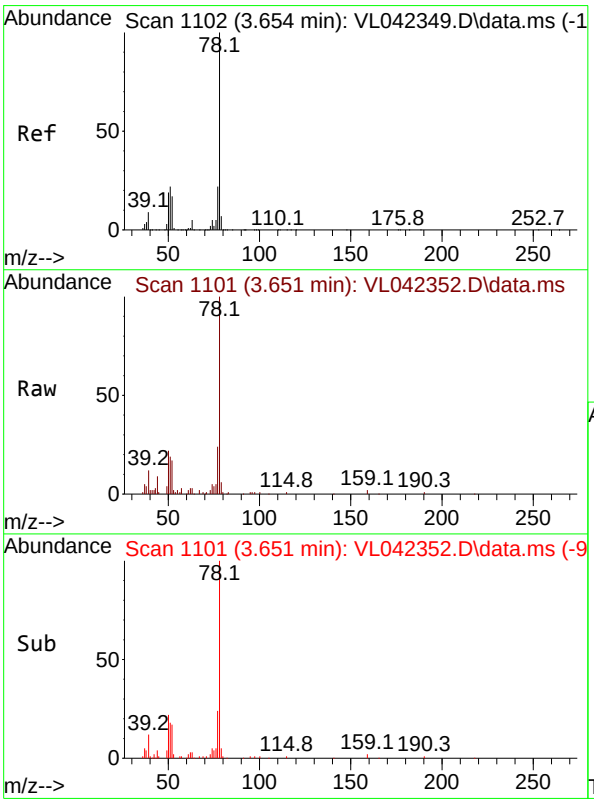

#35
Carbon Tetrachloride
Concen: 0.459 ppbv
RT: 3.761 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion:117 Resp: 14683

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 87.2 | 80.5 | 120.7 |
| 121 | 35.6 | 24.2 | 36.2 |

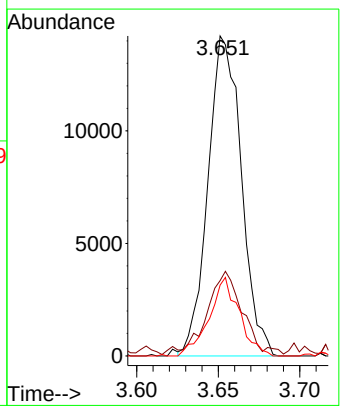


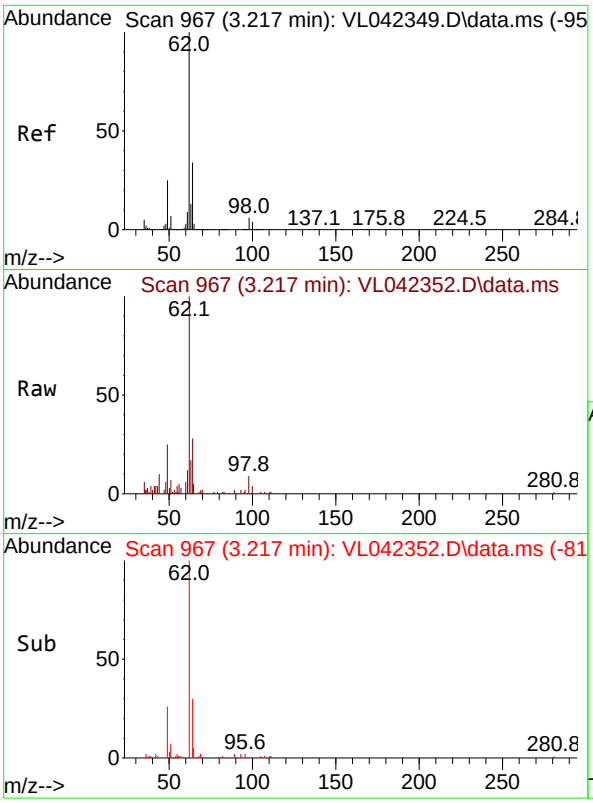




#36
Benzene
Concen: 0.531 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 78 Resp: 20233

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 21.7 | 17.4 | 26.0 |
| 50 | 22.1 | 15.5 | 23.3 |



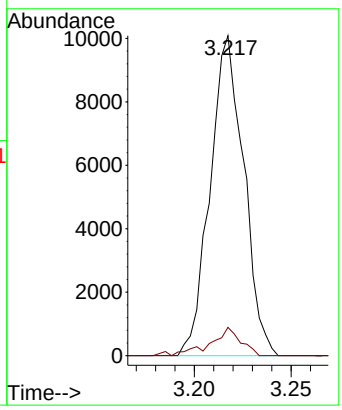


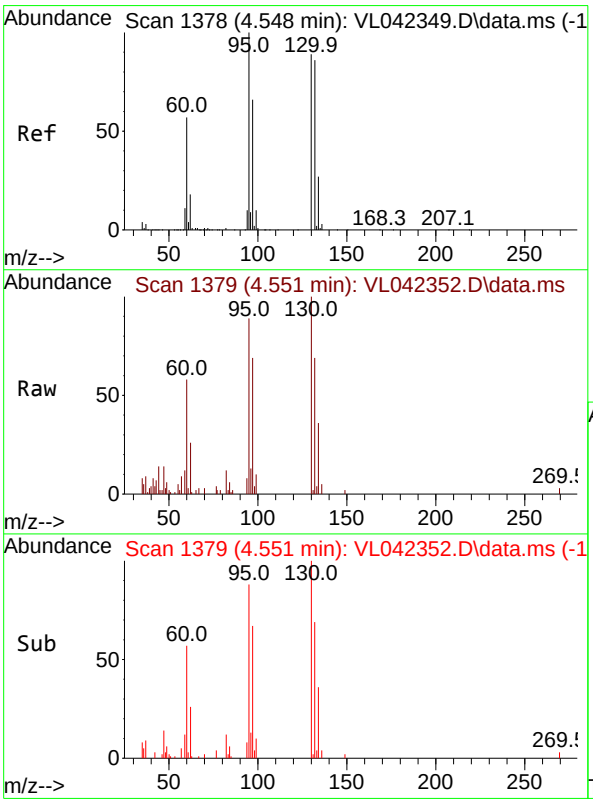

#37
1,2-Dichloroethane
Concen: 0.533 ppbv
RT: 3.217 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion: 62 Resp: 12194

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 8.1 | 5.1 | 7.7# |

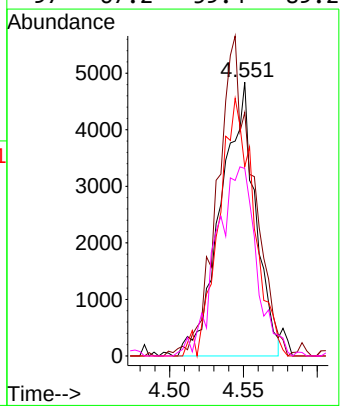


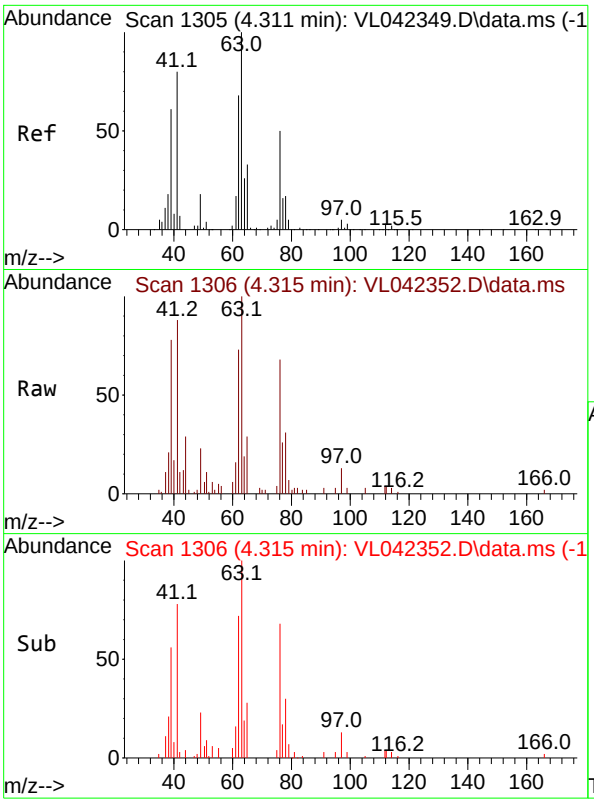




#38
Trichloroethene
Concen: 0.468 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:130 Resp: 7819

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 86.2 | 89.8 | 134.6# |
| 132 | 69.1 | 77.7 | 116.5# |
| 97 | 67.2 | 59.4 | 89.2 |



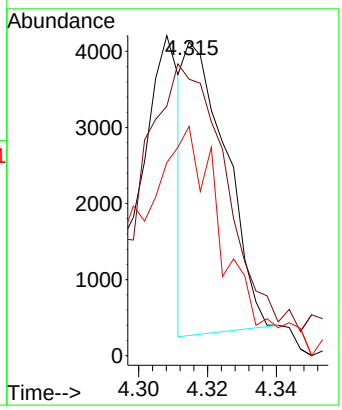


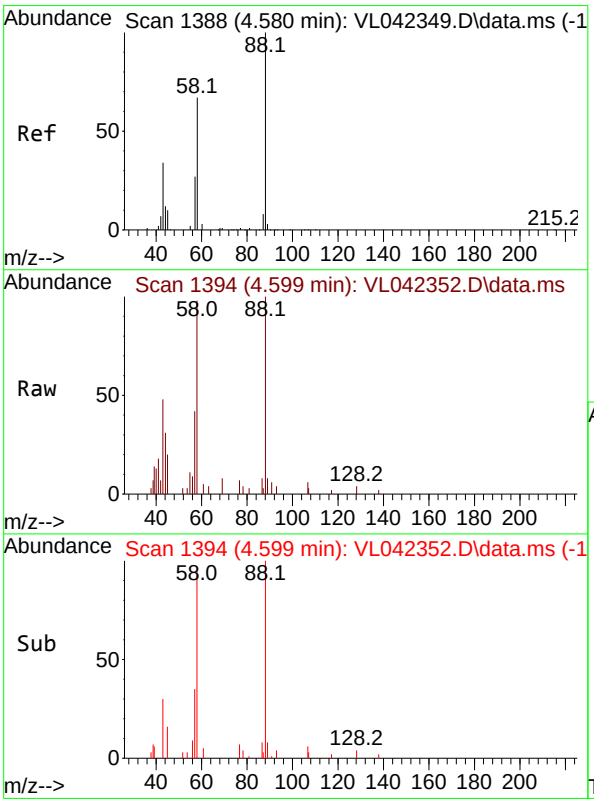

#39
1,2-Dichloropropane
Concen: 0.225 ppbv
RT: 4.315 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion: 63 Resp: 3195

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 90.7 | 64.2 | 96.2 |
| 62 | 75.2 | 54.3 | 81.5 |

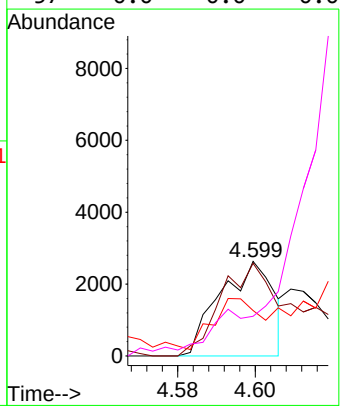


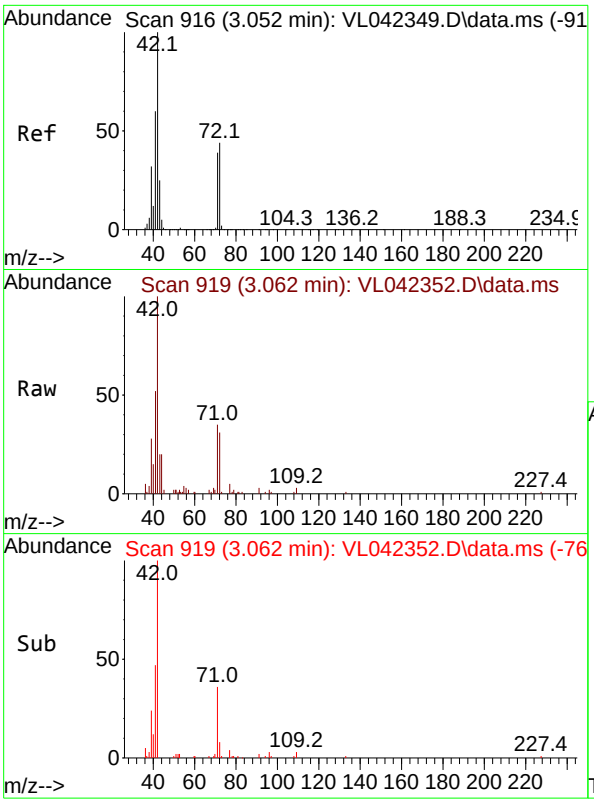




#40
1,4-Dioxane
Concen: 0.331 ppbv
RT: 4.599 min Scan# 1394
Delta R.T. 0.019 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 88 Resp: 2550

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 214.8 | 61.4 | 92.0# |
| 43 | 0.0 | 23.2 | 34.8# |
| 57 | 0.0 | 0.0 | 0.0 |



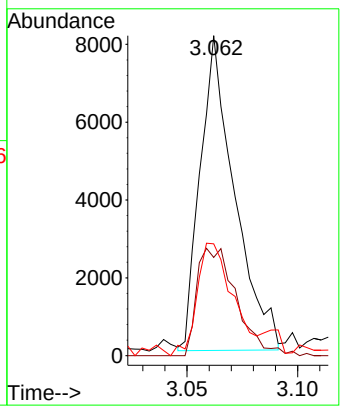


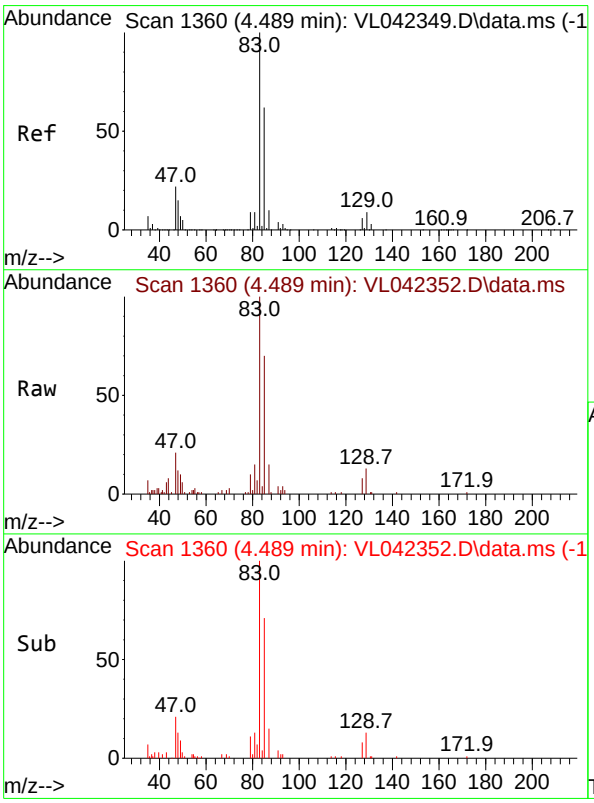

#41
Tetrahydrofuran
Concen: 0.544 ppbv
RT: 3.062 min Scan# 91
Delta R.T. 0.010 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion: 42 Resp: 8773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 39.3 | 32.3 | 48.5 |
| 71 | 44.9 | 31.4 | 47.2 |

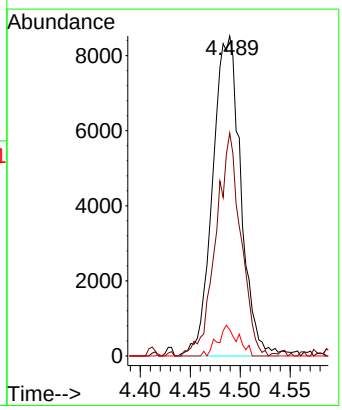


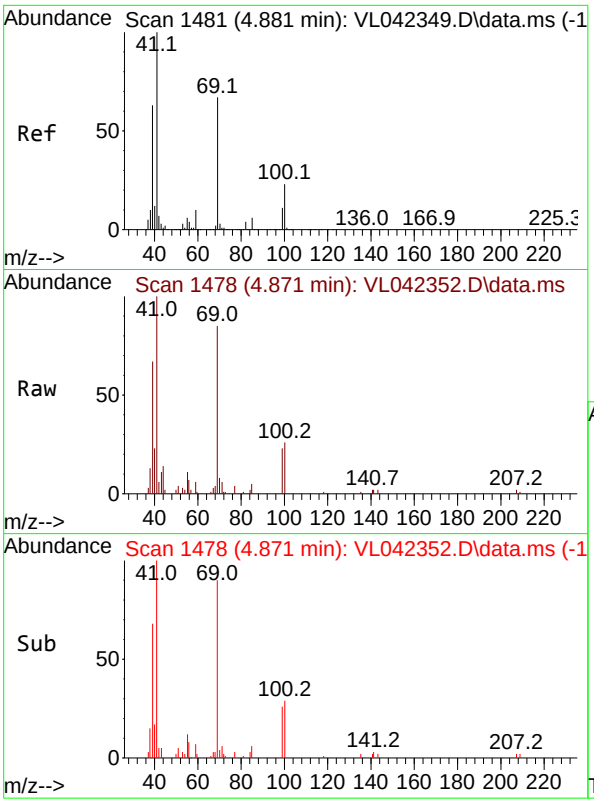




#42
Bromodichloromethane
Concen: 0.523 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 83 Resp: 16642

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 69.6 | 49.7 | 74.5 |
| 127 | 8.2 | 5.1 | 7.7# |



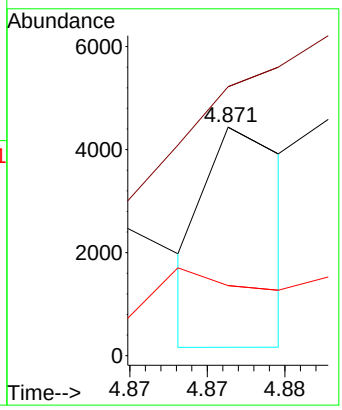


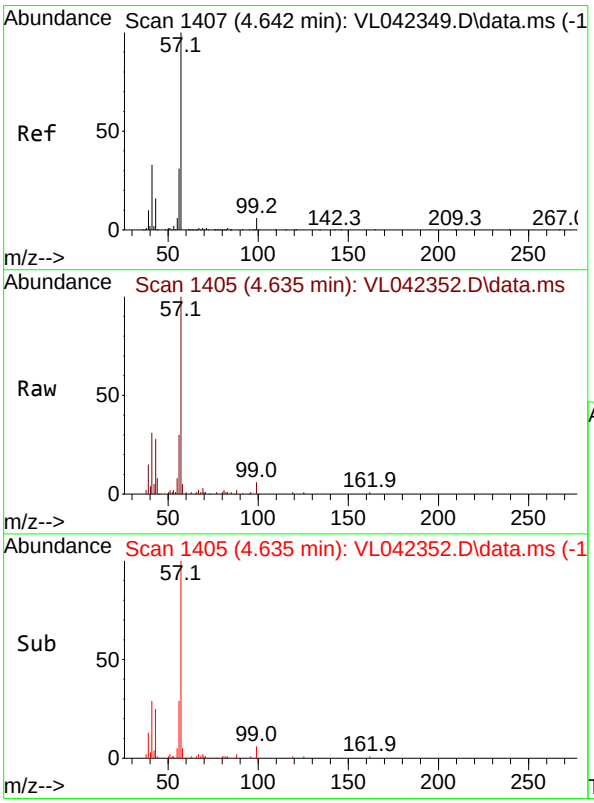

#43
Methyl Methacrylate
Concen: 0.091 ppbv
RT: 4.871 min Scan# 14
Delta R.T. -0.010 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion: 69 Resp: 1556

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 0.0 | 118.6 | 177.8# |
| 100 | 0.0 | 28.2 | 42.2# |

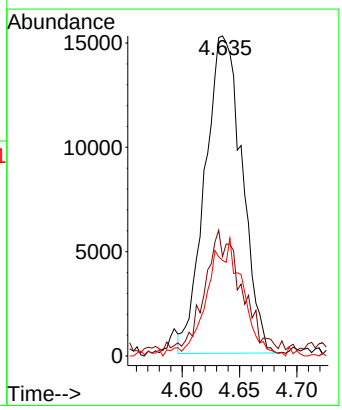


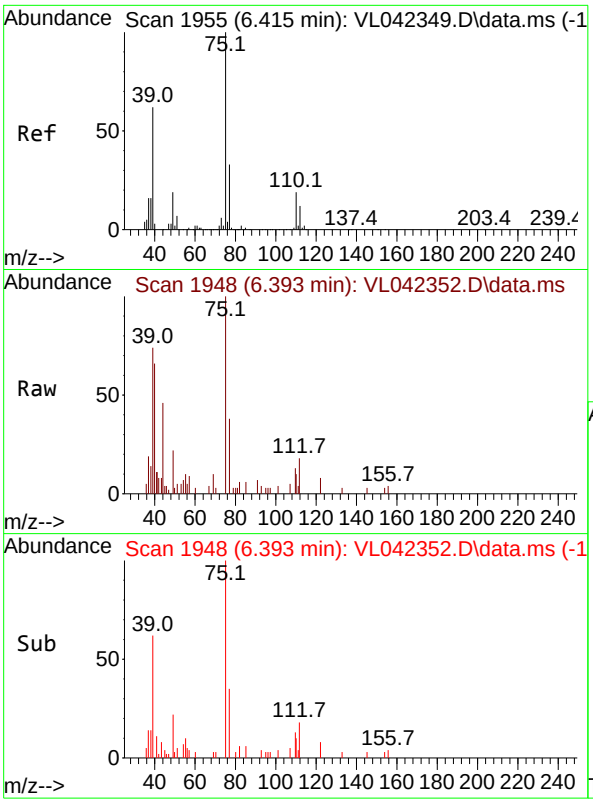




#44
2,2,4-Trimethylpentane
Concen: 0.519 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. -0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 57 Resp: 34170

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 39.1 | 27.2 | 40.8 |
| 56 | 37.1 | 25.7 | 38.5 |



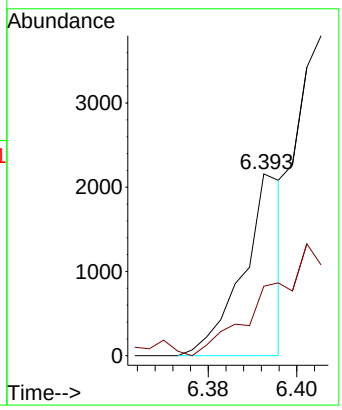


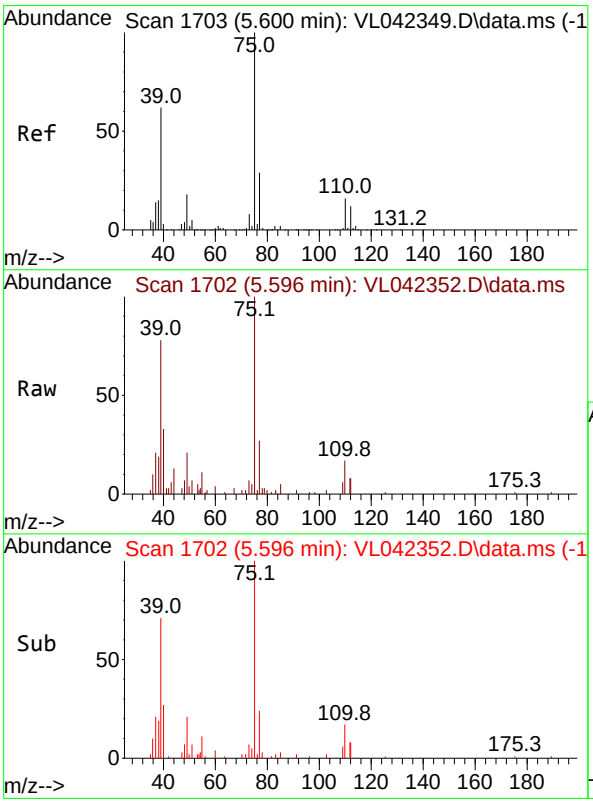

#45
t-1,3-Dichloropropene
Concen: 0.076 ppbv
RT: 6.393 min Scan# 1
Delta R.T. -0.023 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion: 75 Resp: 1332

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 38.2 | 27.0 | 40.6 |

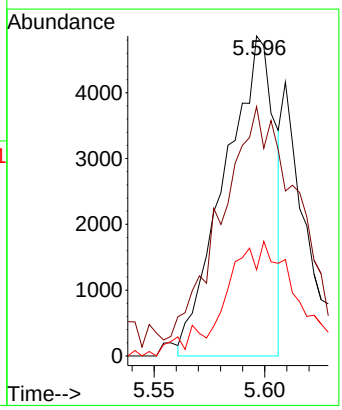


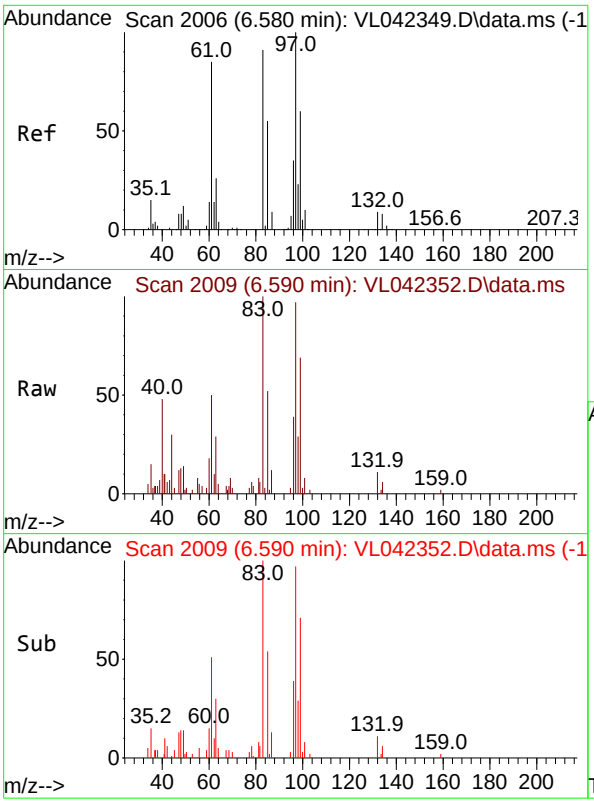




#46
cis-1,3-Dichloropropene
Concen: 0.356 ppbv
RT: 5.596 min Scan# 1702
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 75 Resp: 7634

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 39 | 67.9 | 50.0 | 75.0 |
| 77 | 21.6 | 23.0 | 34.6# |



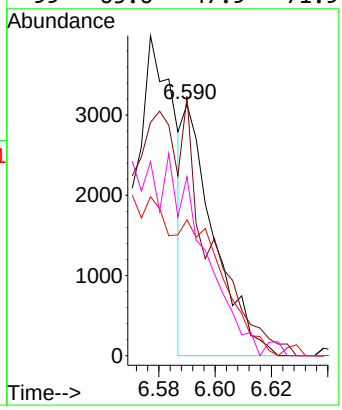


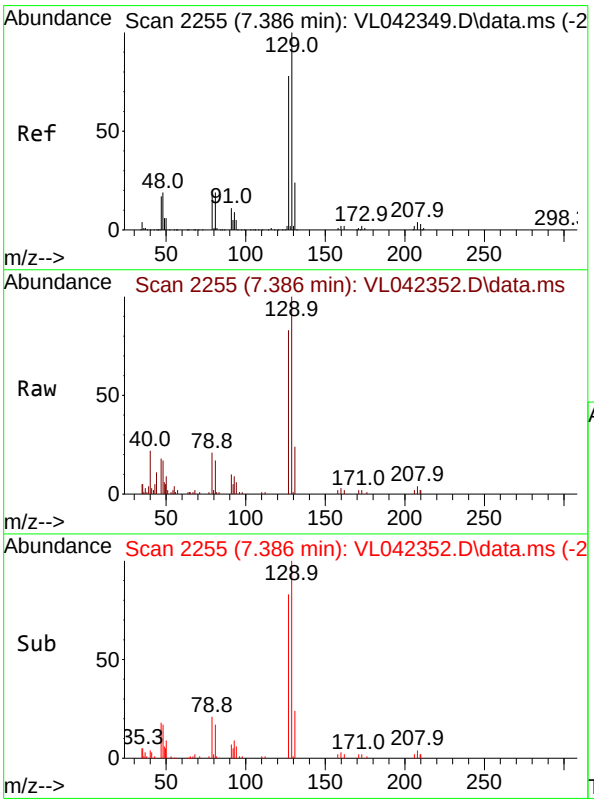

#47
1,1,2-Trichloroethane
Concen: 0.164 ppbv
RT: 6.590 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion: 97 Resp: 2374

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 98.5 | 72.8 | 109.2 |
| 85 | 54.0 | 44.2 | 66.4 |
| 99 | 65.6 | 47.9 | 71.9 |

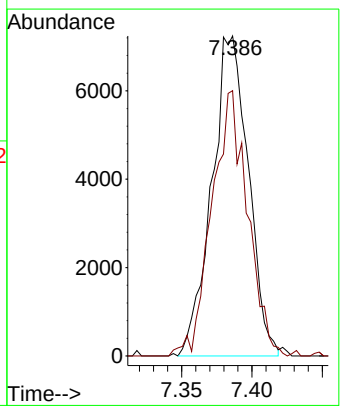


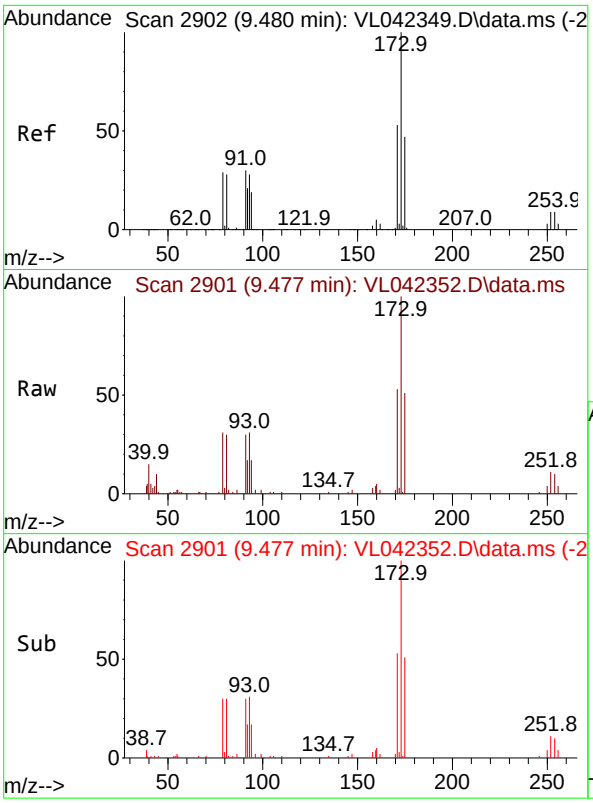




#48
Dibromochloromethane
Concen: 0.514 ppbv
RT: 7.386 min Scan# 2255
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:129 Resp: 13122

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 80.9 | 39.1 | 117.3 |



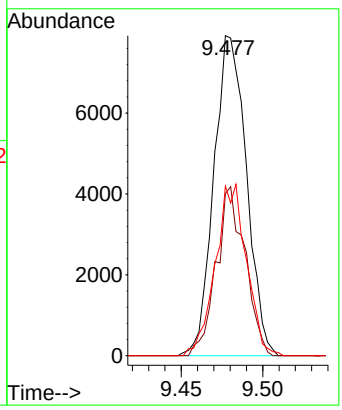


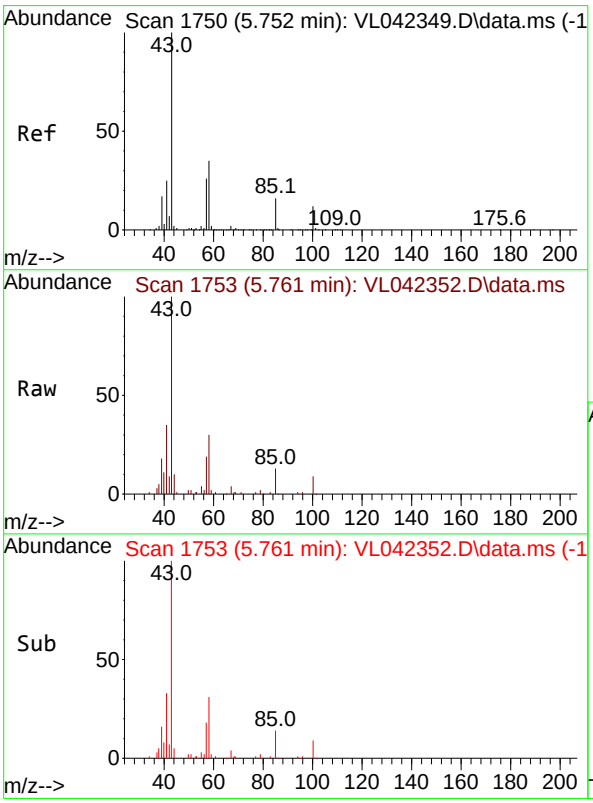

#49
Bromoform
Concen: 0.492 ppbv
RT: 9.477 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion:173 Resp: 10988

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 46.8 | 38.2 | 57.2 |
| 171 | 51.2 | 40.9 | 61.3 |

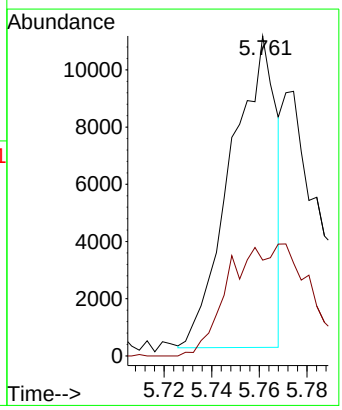


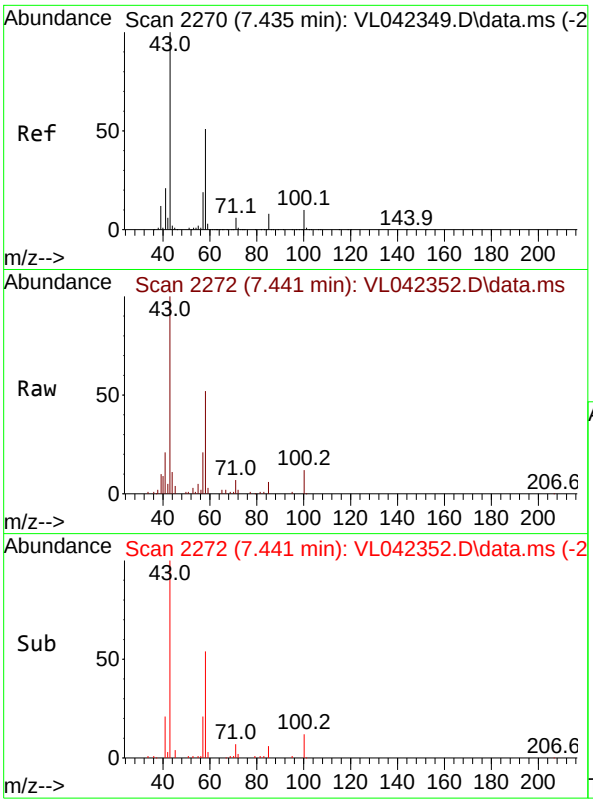




#50
4-Methyl-2-Pentanone
Concen: 0.309 ppbv
RT: 5.761 min Scan# 1753
Delta R.T. 0.010 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 43 Resp: 14380

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 0.0 | 28.6 | 43.0# |



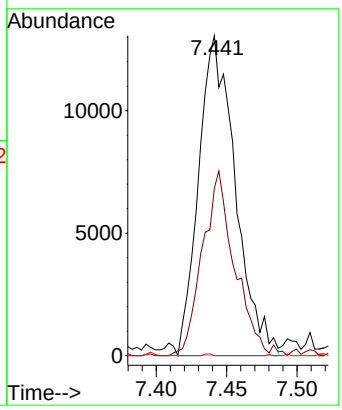


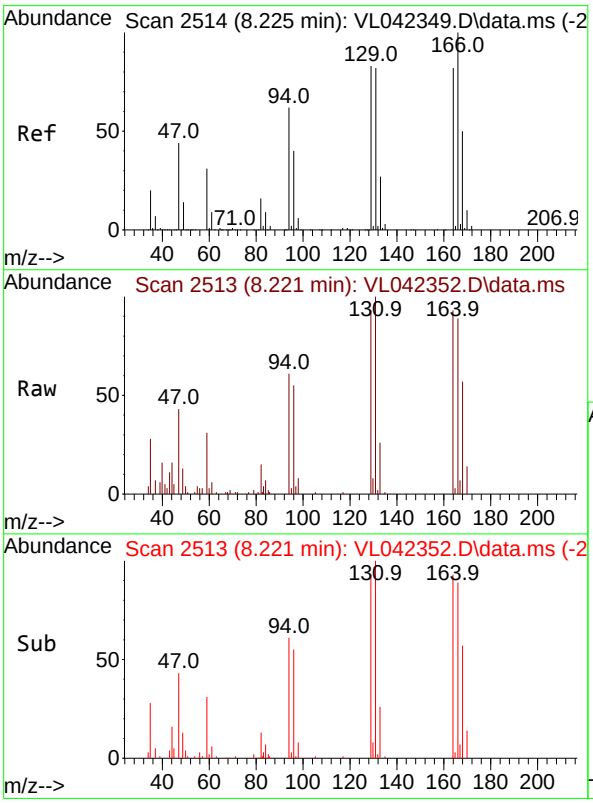

#51
2-Hexanone
Concen: 0.564 ppbv
RT: 7.441 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion: 43 Resp: 23684

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 51.7 | 40.2 | 60.4 |
| 98 | 0.1 | 0.1 | 0.1 |

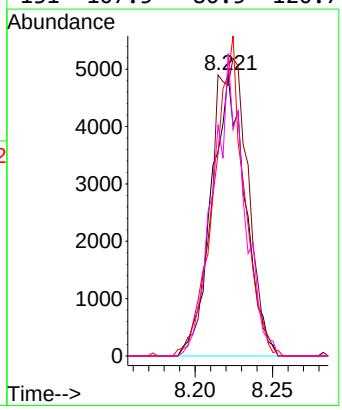


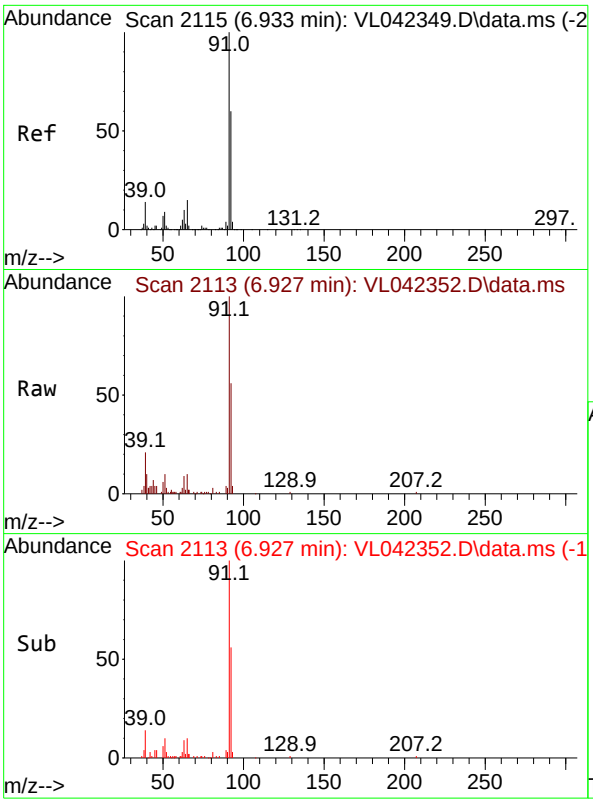




#52
Tetrachloroethene
Concen: 0.503 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:164 Resp: 7412

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 96.1 | 98.2 | 147.2# |
| 129 | 97.8 | 81.8 | 122.8 |
| 131 | 107.5 | 80.5 | 120.7 |



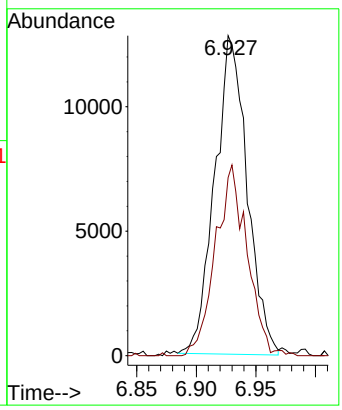


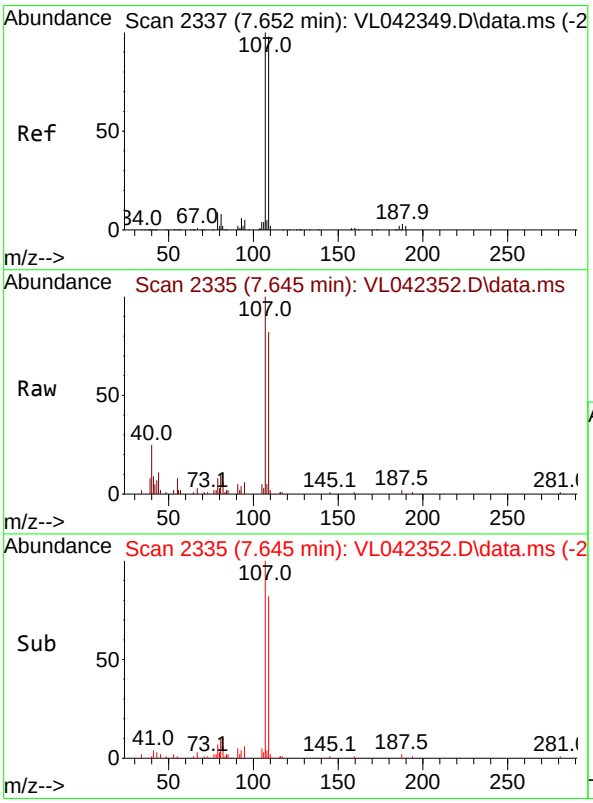

#53
Toluene
Concen: 0.529 ppbv
RT: 6.927 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion: 91 Resp: 24200

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 58.4 | 48.2 | 72.4 |

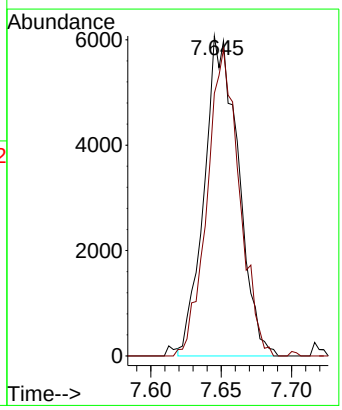


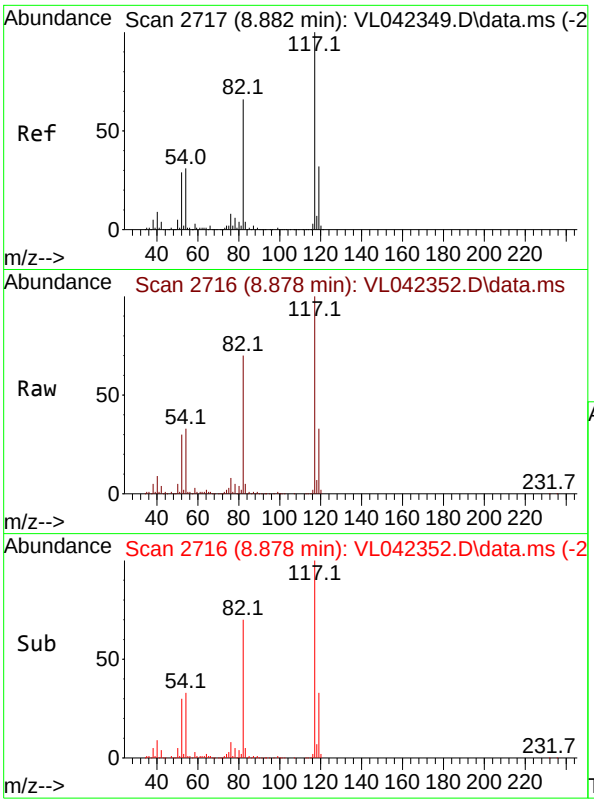




#54
1,2-Dibromoethane
Concen: 0.499 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:107 Resp: 10282

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 82.1 | 78.2 | 117.4 |



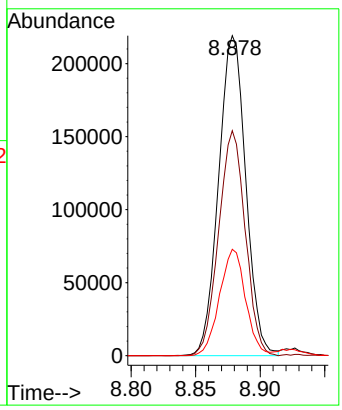


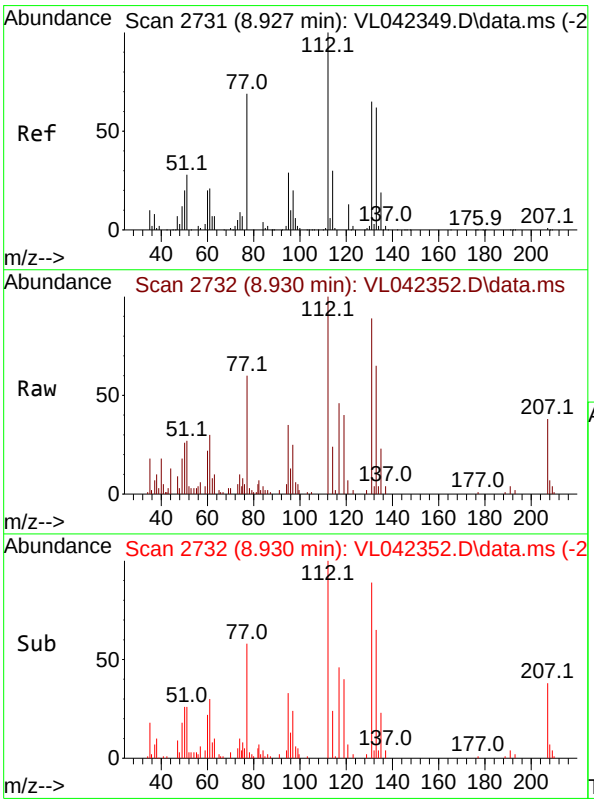

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion:117 Resp: 321644

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 69.0 | 57.8 | 86.6 |
| 119 | 33.8 | 25.2 | 37.8 |

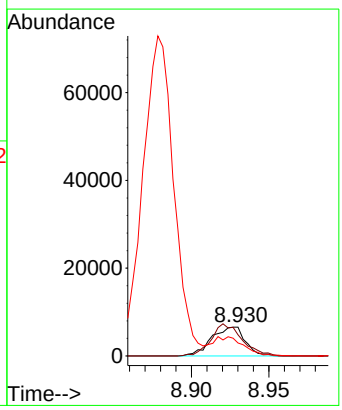


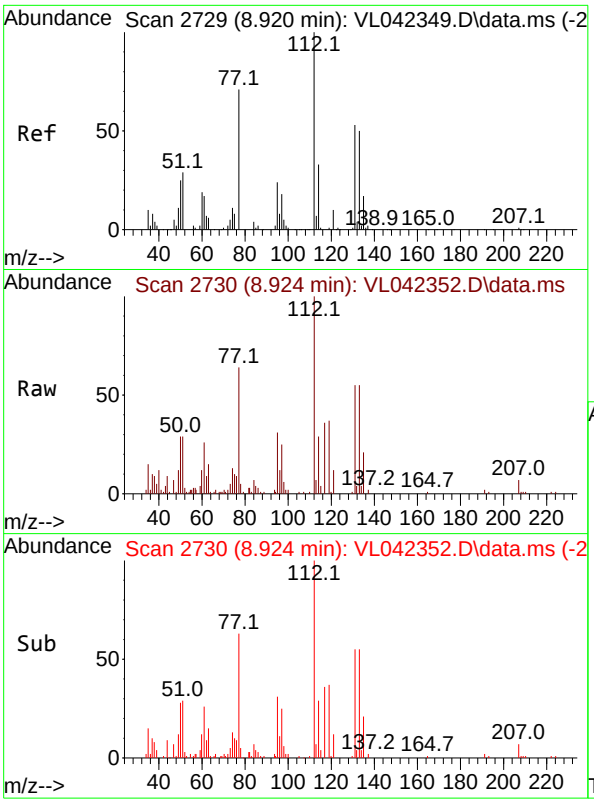




#56
1,1,1,2-Tetrachloroethane
Concen: 0.513 ppbv
RT: 8.930 min Scan# 2732
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:131 Resp: 9987

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 102.0 | 78.3 | 117.5 |
| 119 | 1087.9 | 48.7 | 73.1# |



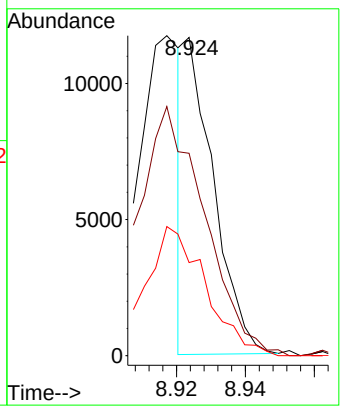


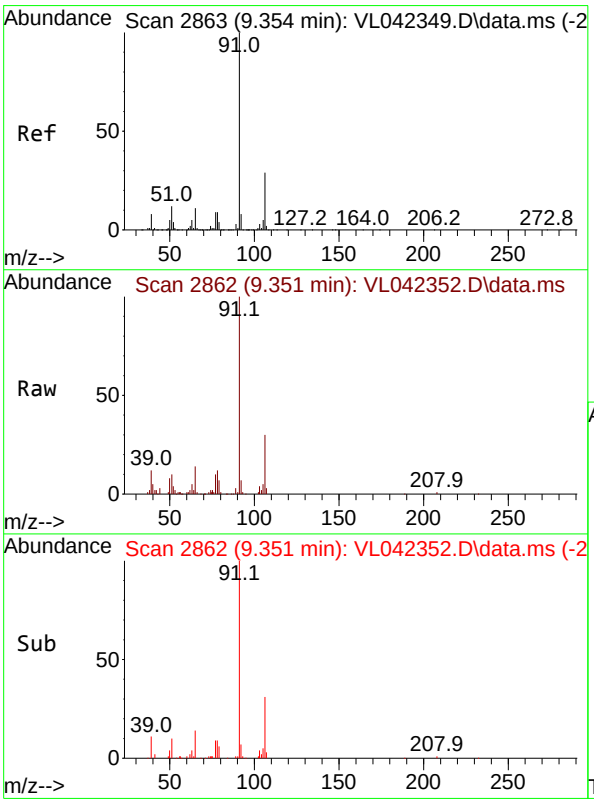

#57
Chlorobenzene
Concen: 0.206 ppbv
RT: 8.924 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion:112 Resp: 6884

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 62.1 | 57.8 | 86.6 |
| 114 | 29.5 | 29.3 | 35.9 |

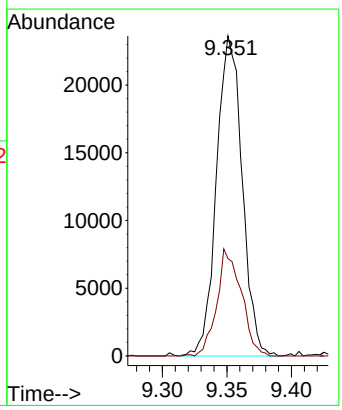


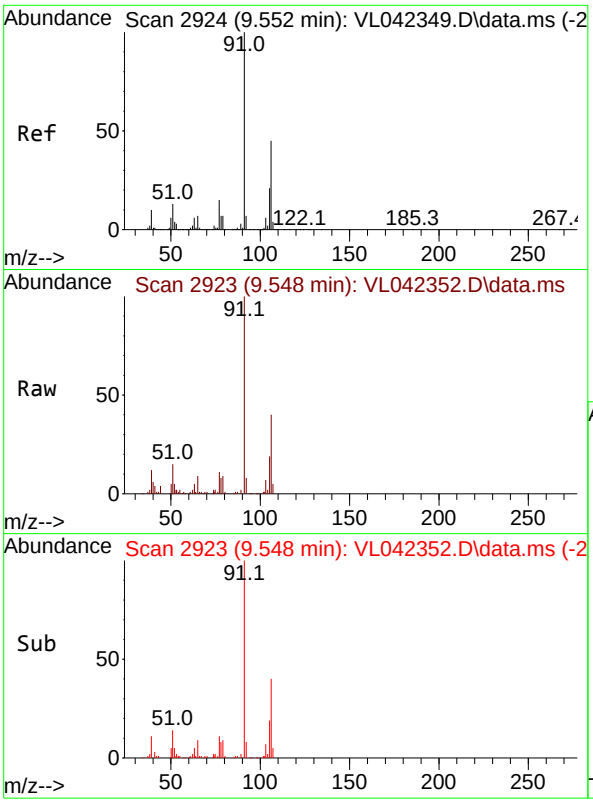




#58
Ethyl Benzene
Concen: 0.512 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 91 Resp: 32624

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.5 | 23.0 | 34.4 |



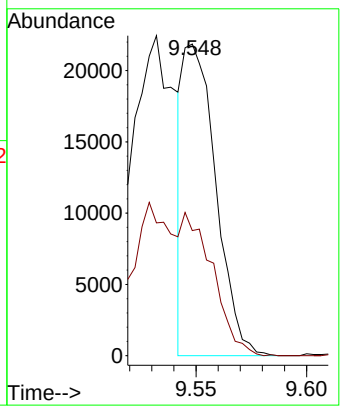


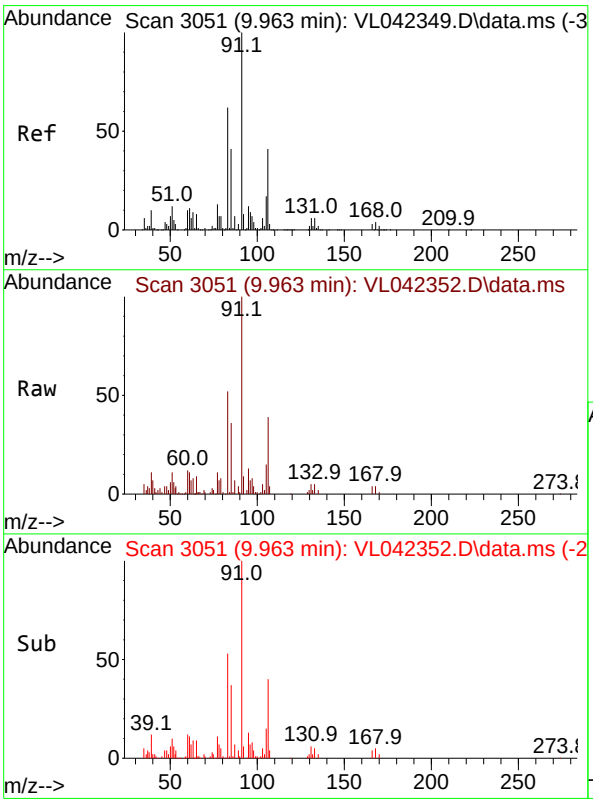

#59
m/p-Xylene
Concen: 0.439 ppbv
RT: 9.548 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion: 91 Resp: 22598

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 0.0 | 35.4 | 53.2# |

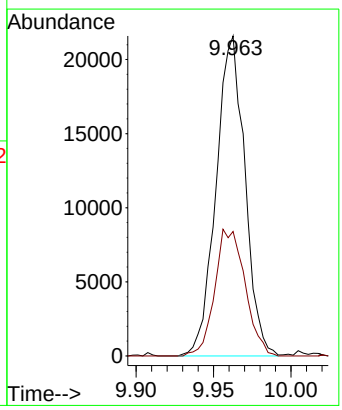


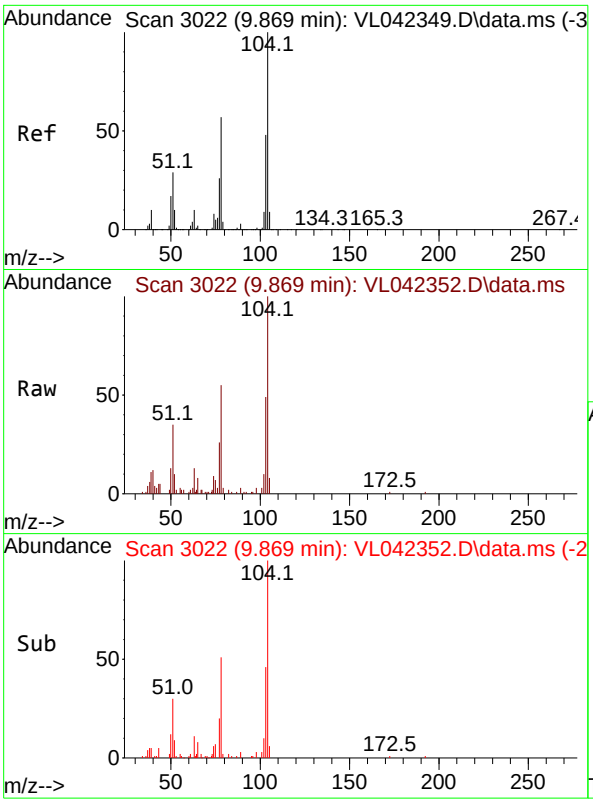




#60
o-Xylene
Concen: 0.541 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 91 Resp: 27983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 41.6 | 21.1 | 63.4 |



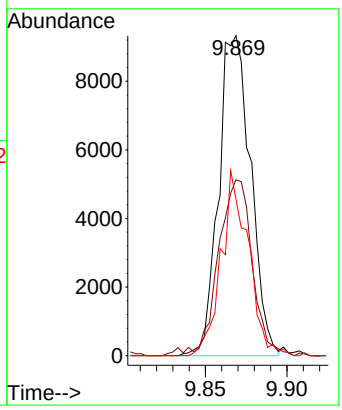


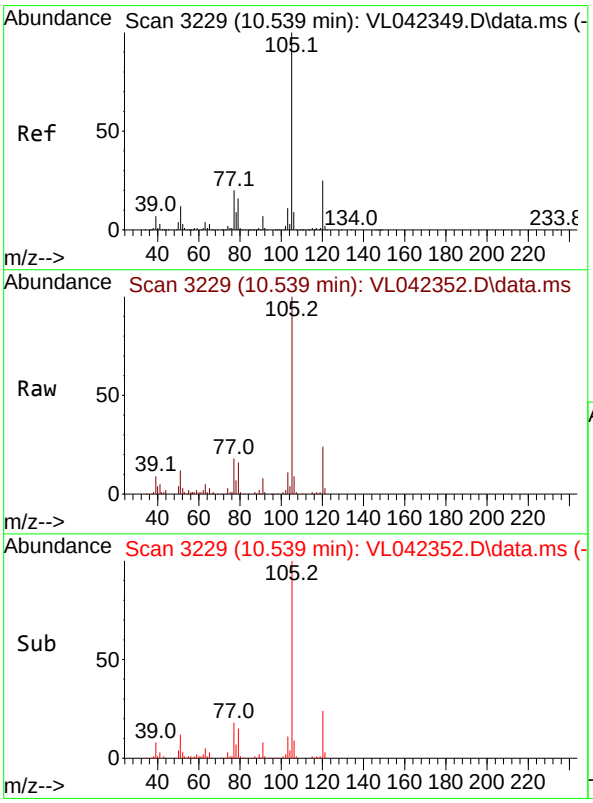

#61
Styrene
Concen: 0.516 ppbv
RT: 9.869 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion:104 Resp: 12736

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 58.6 | 44.6 | 66.8 |
| 103 | 49.2 | 37.4 | 56.0 |

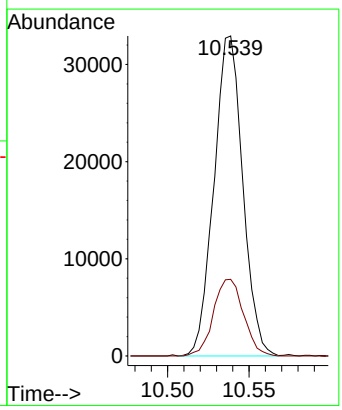


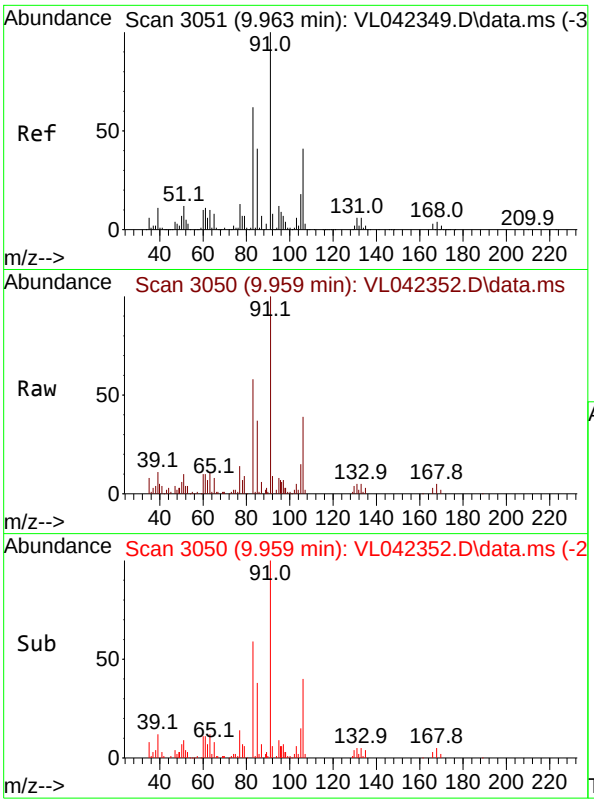




#62
Isopropylbenzene
Concen: 0.533 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:105 Resp: 40481

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 24.9 | 19.8 | 29.8 |



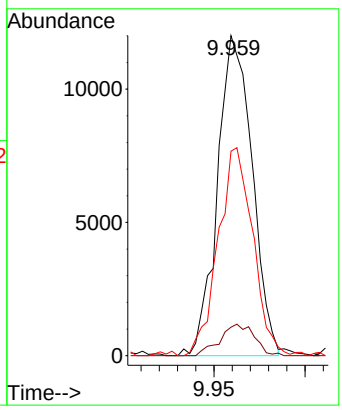


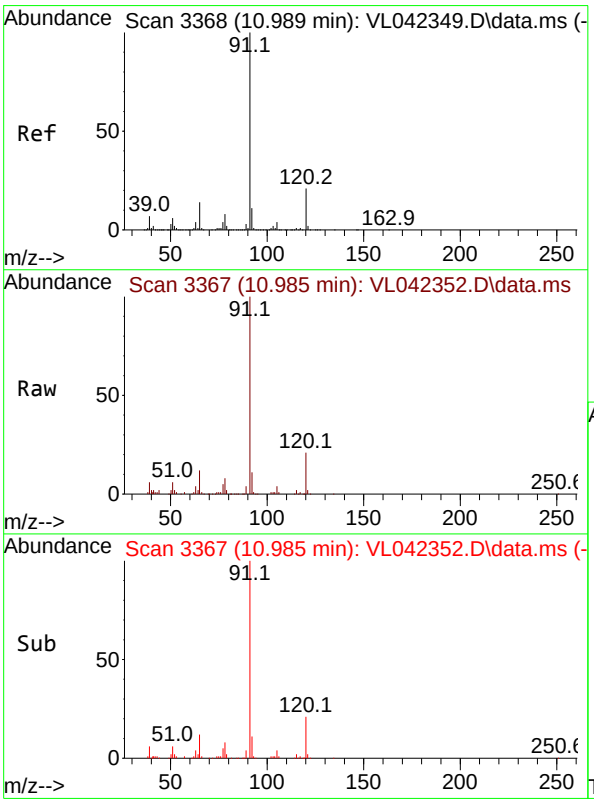

#63
1,1,2,2-Tetrachloroethane
Concen: 0.474 ppbv
RT: 9.959 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion: 83 Resp: 15920

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.8 | 4.5 | 13.7 |
| 85 | 65.6 | 32.4 | 97.0 |

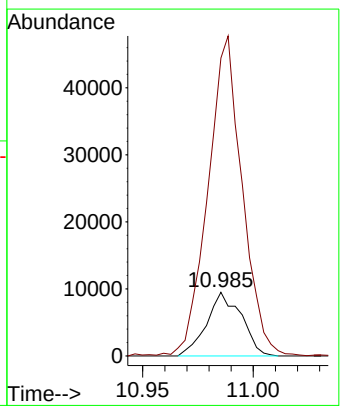


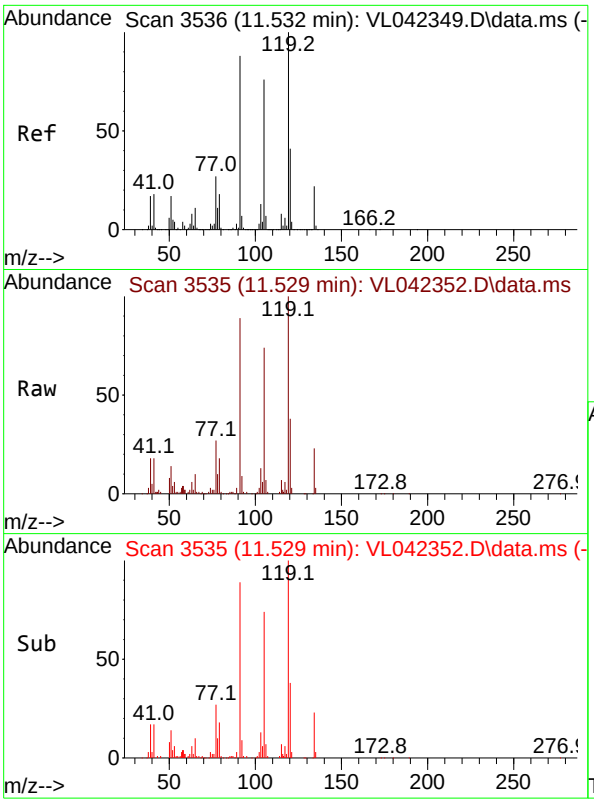




#64
n-propylbenzene
Concen: 0.544 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:120 Resp: 10369

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 499.6 | 392.4 | 588.6 |



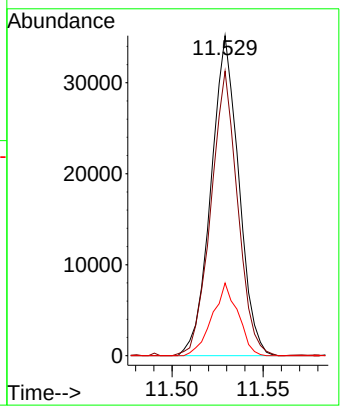


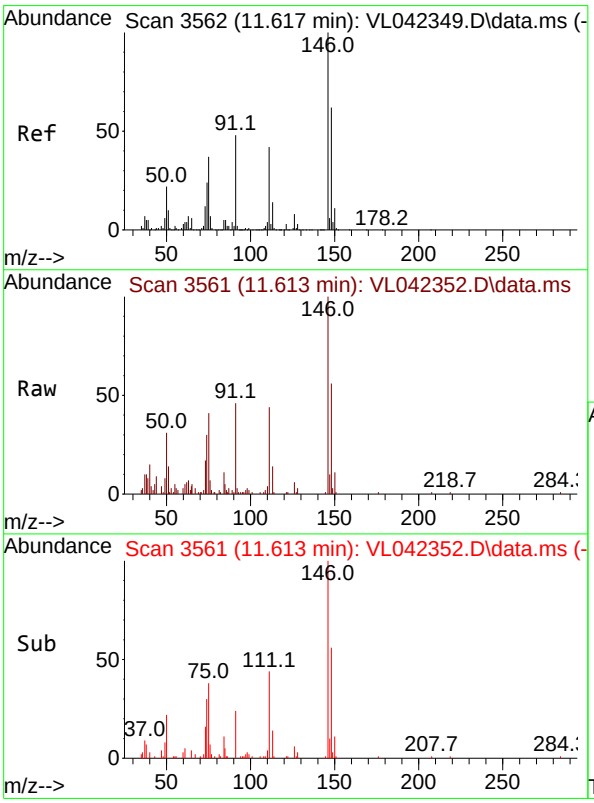

#65
tert-Butylbenzene
Concen: 0.535 ppbv
RT: 11.529 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion:119 Resp: 37294

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 85.8 | 74.6 | 111.8 |
| 134 | 21.1 | 18.8 | 28.2 |

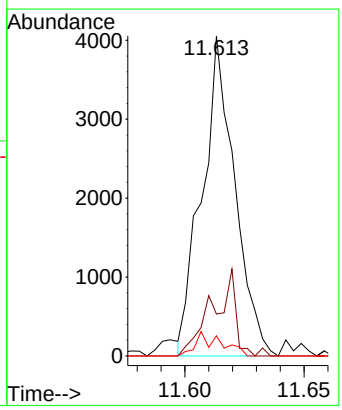


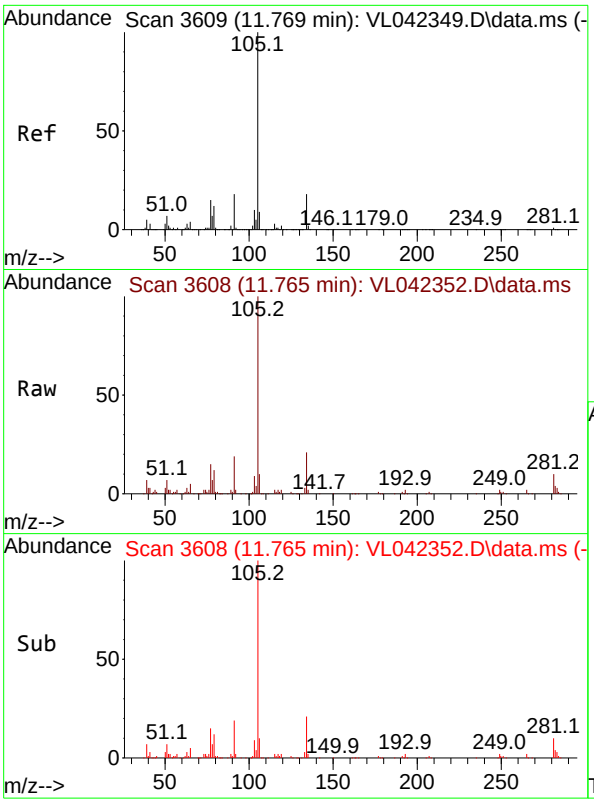




#66
Benzyl Chloride
Concen: 0.506 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 91 Resp: 3878

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 19.8 | 11.8 | 17.6# |
| 128 | 5.8 | 4.5 | 6.7 |



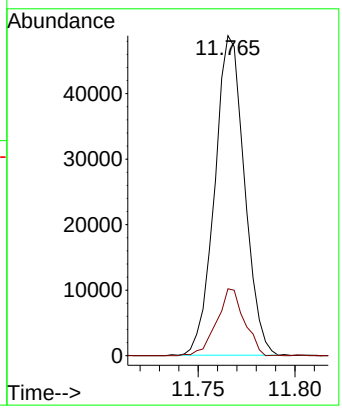


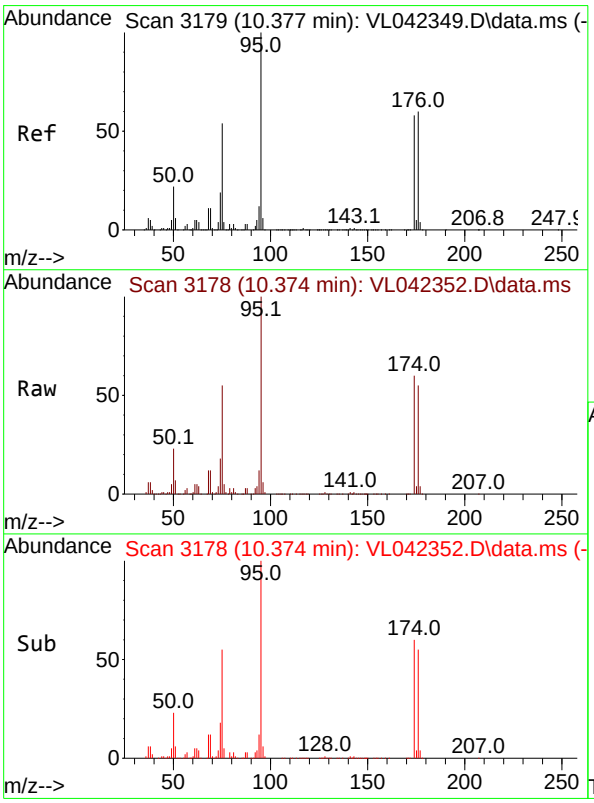

#67
sec-Butylbenzene
Concen: 0.537 ppbv
RT: 11.765 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion:105 Resp: 52139

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.5 | 14.6 | 21.8 |

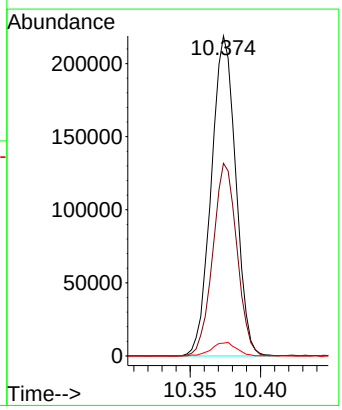


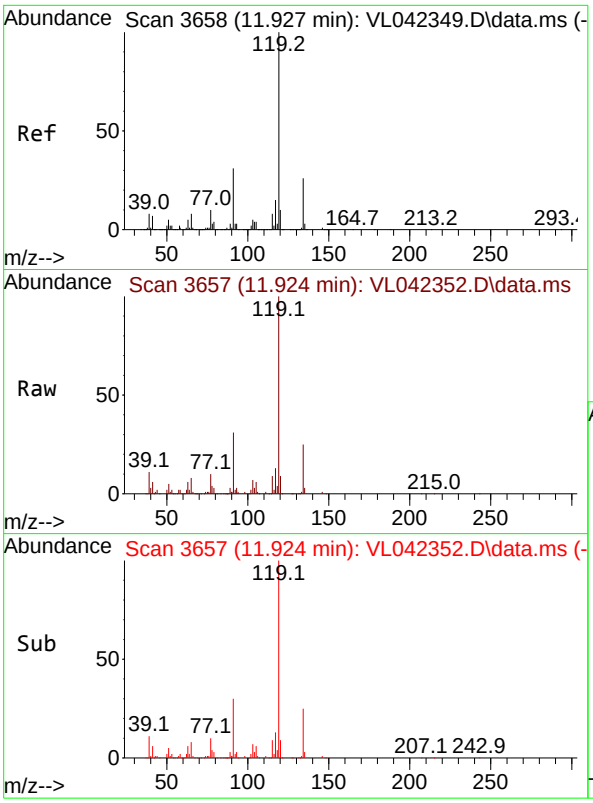




#68
1-Bromo-4-Fluorobenzene
Concen: 10.032 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 95 Resp: 265161

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 59.4 | 48.5 | 72.7 |
| 175 | 4.3 | 3.7 | 5.5 |



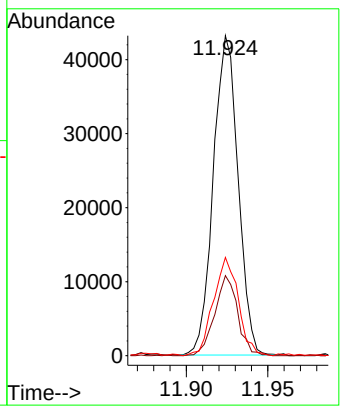


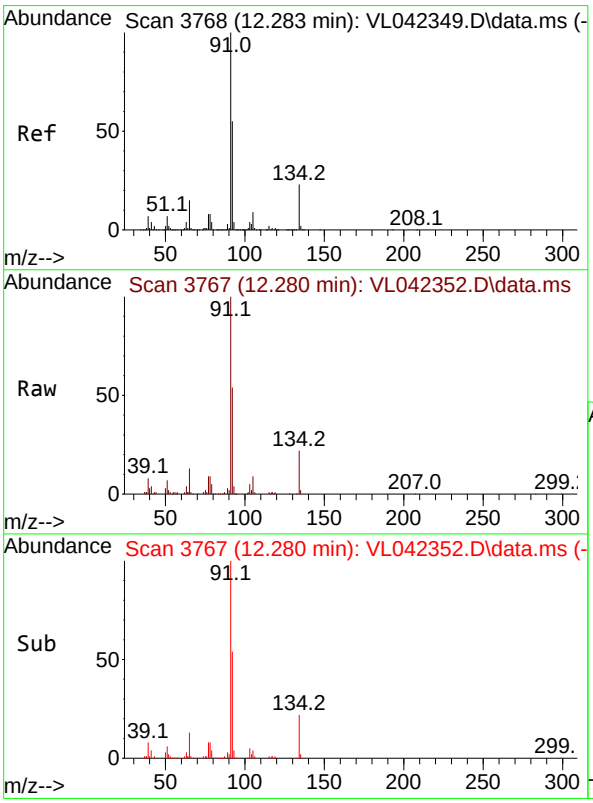

#69
p-Isopropyltoluene
Concen: 0.541 ppbv
RT: 11.924 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion:119 Resp: 45574

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 23.3 | 20.0 | 30.0 |
| 91 | 31.4 | 24.4 | 36.6 |

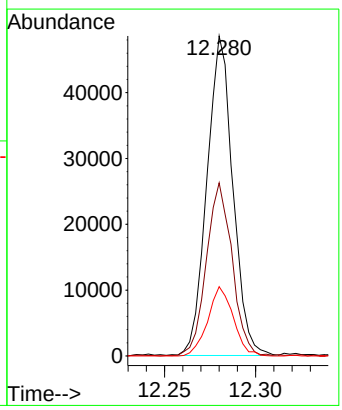


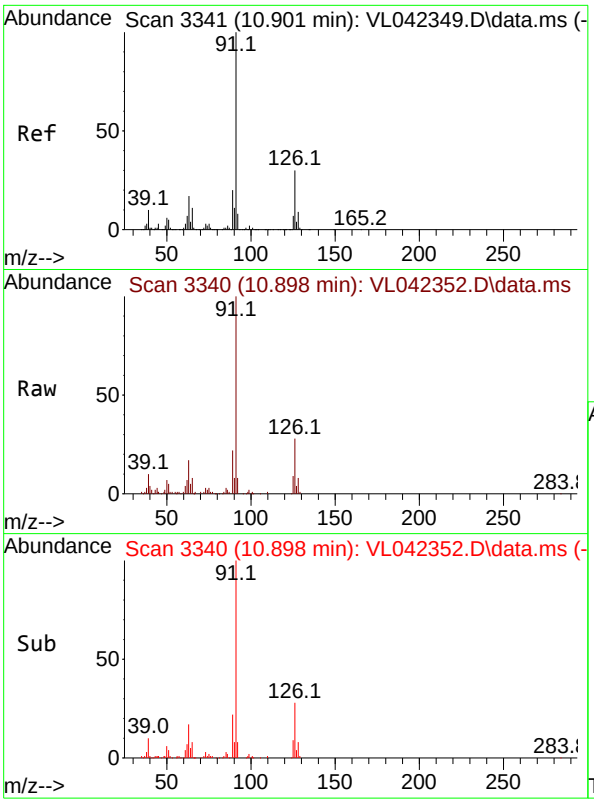




#70
n-Butylbenzene
Concen: 0.547 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 91 Resp: 48004

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 54.7 | 44.2 | 66.4 |
| 134 | 21.4 | 18.2 | 27.4 |



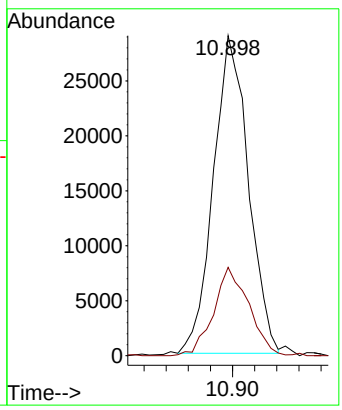


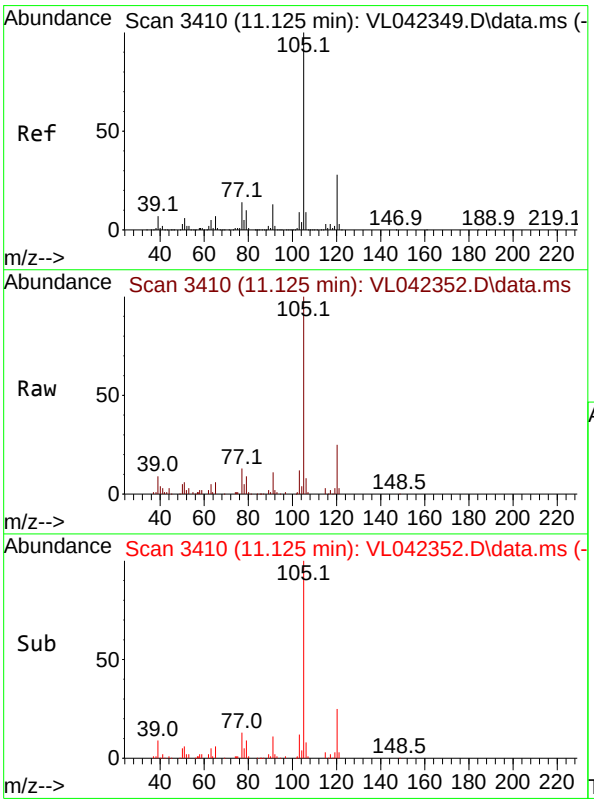

#71
2-Chlorotoluene
Concen: 0.533 ppbv
RT: 10.898 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion: 91 Resp: 31709

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 28.3 | 11.4 | 45.4 |

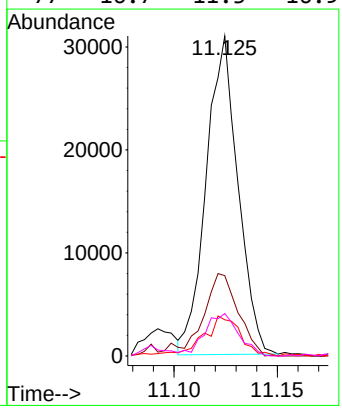


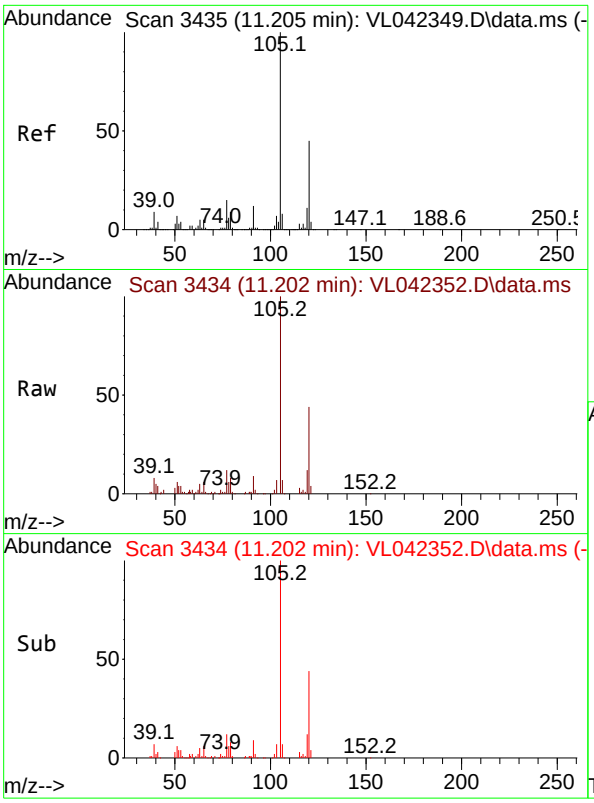




#72
4-Ethyltoluene
Concen: 0.523 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:105 Resp: 33048

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 30.5 | 23.2 | 34.8 |
| 91 | 15.7 | 10.4 | 15.6# |
| 77 | 16.7 | 11.3 | 16.9 |



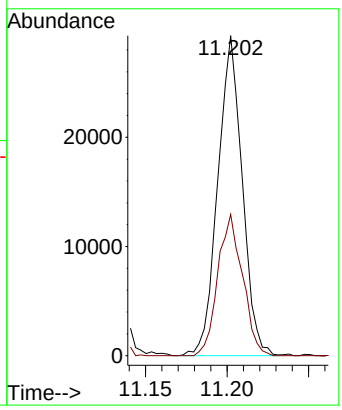


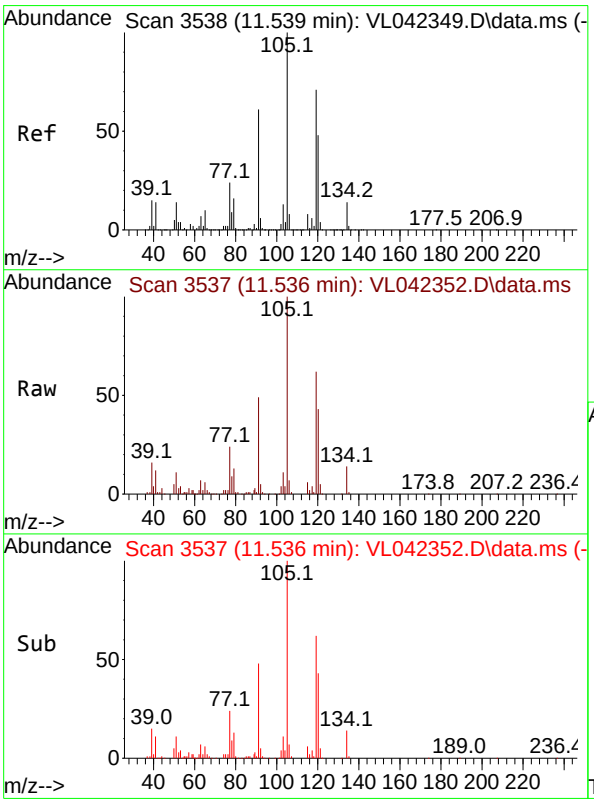

#73
1,3,5-Trimethylbenzene
Concen: 0.546 ppbv
RT: 11.202 min Scan# 34
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion:105 Resp: 30464

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.1 | 35.6 | 53.4 |

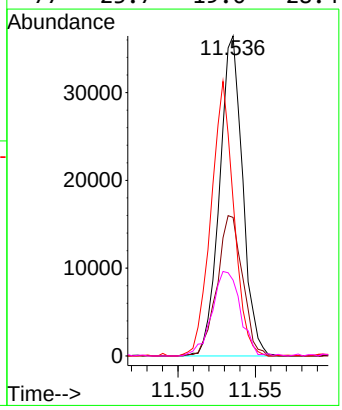


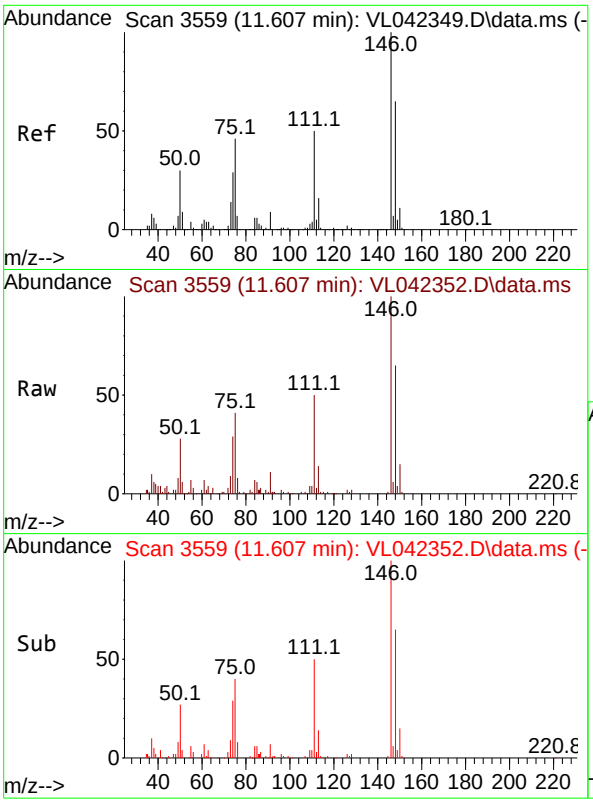




#74
1,2,4-Trimethylbenzene
Concen: 0.579 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:105 Resp: 37765

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 43.3 | 38.1 | 57.1 |
| 91 | 48.7 | 48.8 | 73.2# |
| 77 | 23.7 | 19.0 | 28.4 |



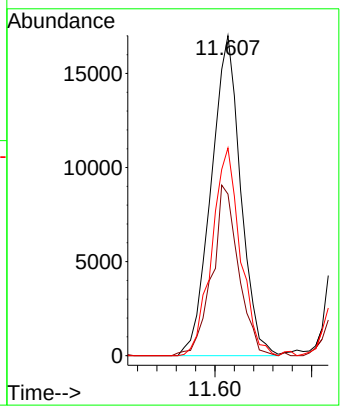


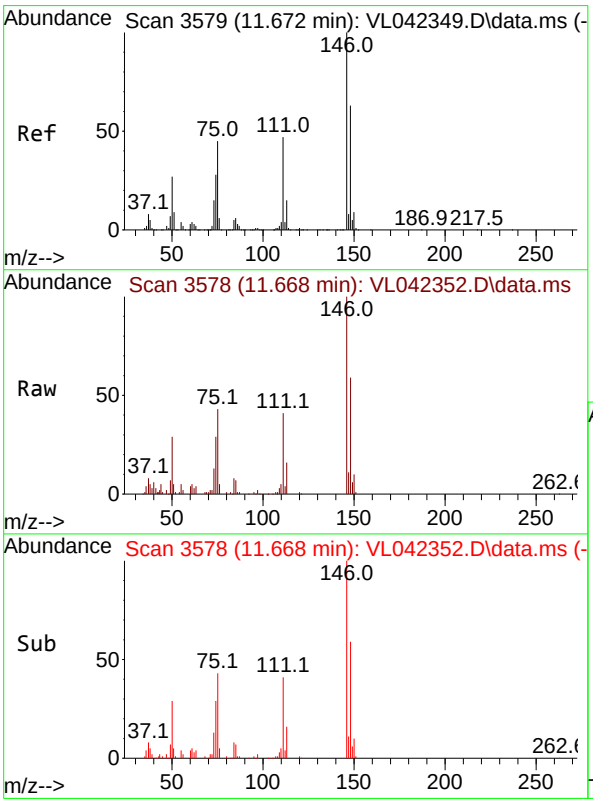

#75
1,3-Dichlorobenzene
Concen: 0.531 ppbv
RT: 11.607 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion:146 Resp: 18003

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 47.9 | 24.3 | 72.8 |
| 148 | 62.9 | 31.6 | 94.8 |

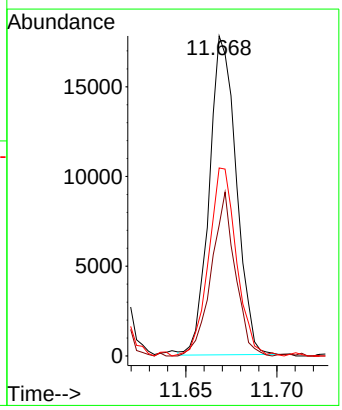


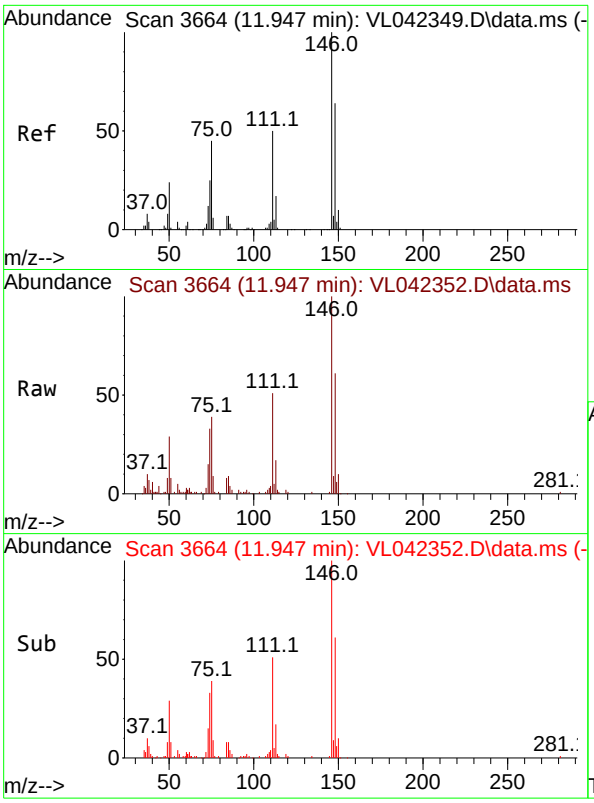




#76
1,4-Dichlorobenzene
Concen: 0.537 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:146 Resp: 18300

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 45.9 | 24.2 | 72.6 |
| 148 | 61.2 | 32.1 | 96.5 |



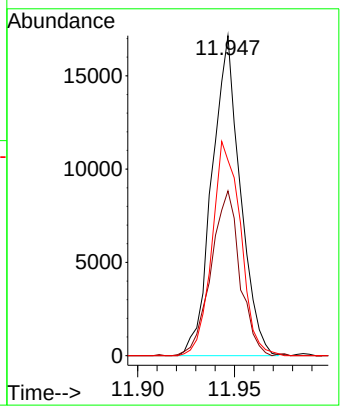


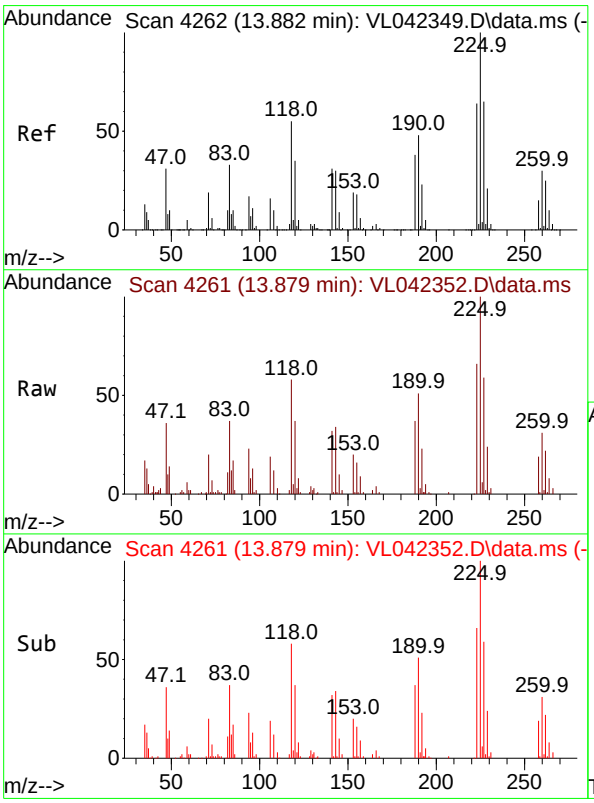

#77
1,2-Dichlorobenzene
Concen: 0.530 ppbv
RT: 11.947 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion:146 Resp: 17446

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 52.6 | 25.3 | 75.9 |
| 148 | 67.5 | 31.5 | 94.5 |

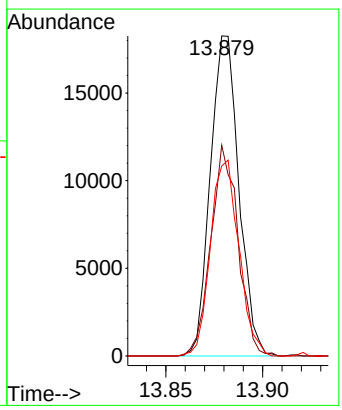


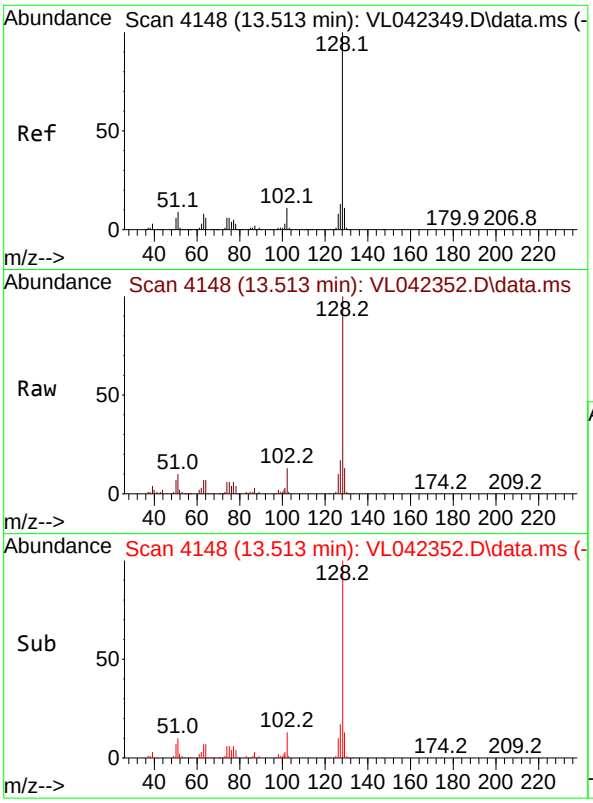




#78
Hexachloro-1,3-Butadiene
Concen: 0.562 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:225 Resp: 18705

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.8 | 50.3 | 75.5 |
| 227 | 61.1 | 51.5 | 77.3 |



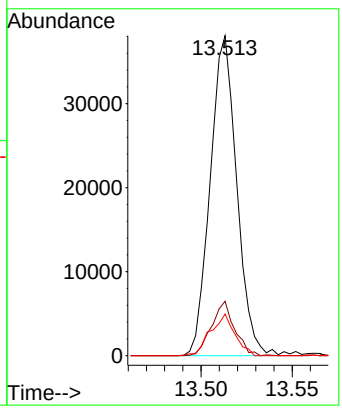


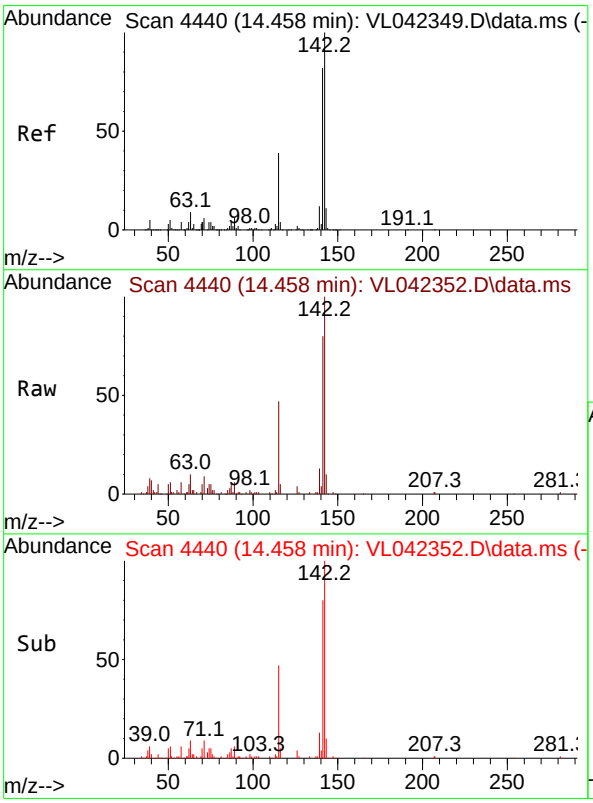

#79
Naphthalene
Concen: 0.494 ppbv
RT: 13.513 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion:128 Resp: 38521

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 17.0 | 10.6 | 15.8# |
| 129 | 13.0 | 8.6 | 12.8# |

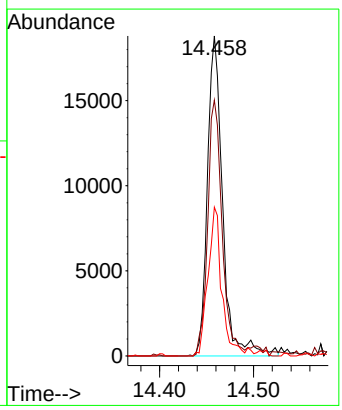


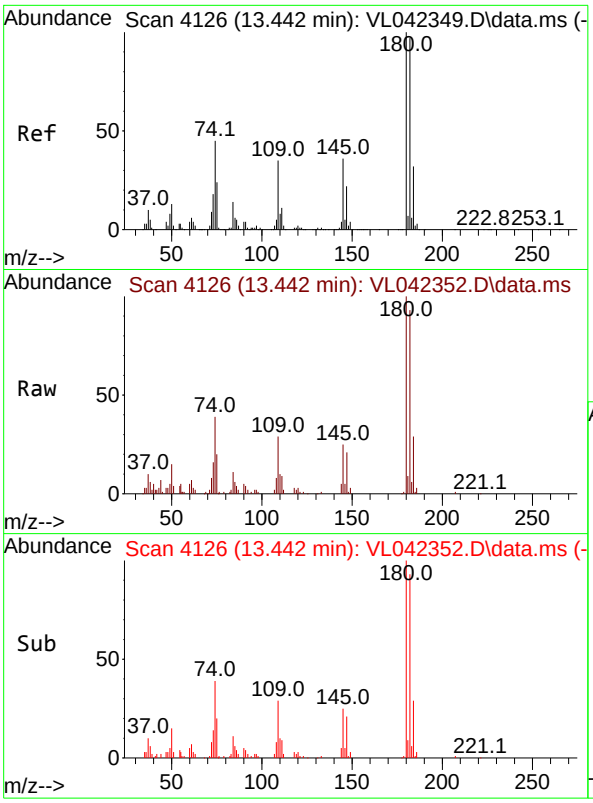




#80
Naphthalene,2-methyl-
Concen: 0.475 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:142 Resp: 21076

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 79.2 | 66.8 | 100.2 |
| 115 | 44.1 | 33.4 | 50.2 |



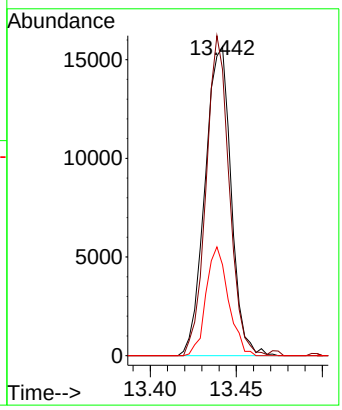



#81
1,2,4-Trichlorobenzene
Concen: 0.493 ppbv
RT: 13.442 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.5

Tgt Ion:180 Resp: 16504

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 92.4 | 76.8 | 115.2 |
| 184 | 30.2 | 24.6 | 36.8 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042353.D
Acq On : 17 Apr 2025 11:50
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Quant Time: Apr 18 01:29:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.791 | 49 | 119461 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.962 | 114 | 350484 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.885 | 117 | 315004 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.381 | 95 | 256417 | 9.906 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 99.100% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.499 | 85 | 2857 | 0.135 | ppbv | 98 |
| 3) Chlorodifluoromethane | 1.477 | 51 | 2706 | 0.135 | ppbv # | 91 |
| 4) Chloromethane | 1.535 | 50 | 1225 | 0.147 | ppbv # | 85 |
| 5) Vinyl Chloride | 1.580 | 62 | 1088 | 0.120 | ppbv # | 74 |
| 6) Bromomethane | 1.668 | 94 | 663 | 0.168 | ppbv # | 72 |
| 7) Chloroethane | 1.703 | 64 | 579 | 0.176 | ppbv # | 78 |
| 8) Dichlorotetrafluoroethane | 1.557 | 85 | 2377 | 0.131 | ppbv | 94 |
| 9) Propene | 1.435 | 41 | 314 | 0.034 | ppbv | 90 |
| 10) Heptane | 4.988 | 43 | 1056 | 0.043 | ppbv # | 1 |
| 12) 1,1,2-Trichlorotrifluo... | 2.140 | 101 | 2017 | 0.123 | ppbv | 94 |
| 13) Ethanol | 1.891 | 45 | 1958 | 2.618 | ppbv # | 24 |
| 14) Bromoethene | 1.781 | 108 | 1015 | 0.164 | ppbv # | 77 |
| 15) Acetone | 1.839 | 43 | 4783 | 0.245 | ppbv # | 82 |
| 16) 1,3-Butadiene | 1.609 | 39 | 1776 | 0.193 | ppbv # | 46 |
| 17) tert-Butyl alcohol | 2.049 | 59 | 3130 | 0.129 | ppbv # | 6 |
| 18) 1,1-Dichloroethene | 2.037 | 96 | 1074 | 0.136 | ppbv | 85 |
| 19) Isopropyl Alcohol | 1.891 | 45 | 1958 | 0.180 | ppbv | 90 |
| 20) Methylene Chloride | 2.066 | 84 | 2741 | 0.358 | ppbv # | 74 |
| 21) Allyl Chloride | 2.098 | 41 | 2786 | 0.206 | ppbv # | 72 |
| 22) trans-1,2-Dichloroethene | 2.347 | 96 | 1201 | 0.138 | ppbv # | 60 |
| 23) Vinyl Acetate | 2.457 | 43 | 326 | 0.041 | ppbv # | 77 |
| 24) 1,1-Dichloroethane | 2.412 | 63 | 2169 | 0.131 | ppbv # | 78 |
| 26) Hexane | 2.833 | 57 | 3260 | 0.167 | ppbv # | 1 |
| 27) Carbon Disulfide | 2.150 | 76 | 2396 | 0.115 | ppbv # | 1 |
| 28) Methyl tert-Butyl Ether | 2.448 | 73 | 1460 | 0.114 | ppbv # | 1 |
| 29) Chloroform | 2.849 | 83 | 3542 | 0.128 | ppbv | 100 |
| 30) Cyclohexane | 3.859 | 84 | 1037 | 0.066 | ppbv # | 1 |
| 32) 1,1,1-Trichloroethane | 3.373 | 97 | 1734 | 0.059 | ppbv # | 20 |
| 34) 2-Butanone | 2.564 | 43 | 3506 | 0.126 | ppbv # | 79 |
| 35) Carbon Tetrachloride | 3.771 | 117 | 3204 | 0.101 | ppbv # | 94 |
| 36) Benzene | 3.665 | 78 | 4424 | 0.117 | ppbv | 97 |
| 37) 1,2-Dichloroethane | 3.224 | 62 | 2523 | 0.111 | ppbv # | 81 |
| 38) Trichloroethene | 4.551 | 130 | 1113 | 0.067 | ppbv # | 63 |
| 39) 1,2-Dichloropropane | 4.315 | 63 | 1007 | 0.071 | ppbv | 96 |
| 40) 1,4-Dioxane | 4.616 | 88 | 431 | 0.056 | ppbv # | 1 |
| 42) Bromodichloromethane | 4.496 | 83 | 2443 | 0.077 | ppbv # | 89 |
| 43) Methyl Methacrylate | 4.894 | 69 | 1683 | 0.099 | ppbv # | 60 |
| 44) 2,2,4-Trimethylpentane | 4.648 | 57 | 2115 | 0.032 | ppbv # | 42 |
| 45) t-1,3-Dichloropropene | 6.429 | 75 | 748 | 0.043 | ppbv | 98 |
| 46) cis-1,3-Dichloropropene | 5.610 | 75 | 1032 | 0.048 | ppbv | 90 |
| 47) 1,1,2-Trichloroethane | 6.584 | 97 | 540 | 0.038 | ppbv # | 39 |
| 48) Dibromochloromethane | 7.393 | 129 | 1149 | 0.045 | ppbv # | 1 |
| 49) Bromoform | 9.484 | 173 | 1973 | 0.089 | ppbv # | 86 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042353.D
Acq On : 17 Apr 2025 11:50
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Quant Time: Apr 18 01:29:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 51) 2-Hexanone | 7.455 | 43 | 4915 | 0.118 | ppbv | # | 99 |
| 52) Tetrachloroethene | 8.222 | 164 | 957 | 0.065 | ppbv | | 88 |
| 54) 1,2-Dibromoethane | 7.662 | 107 | 1470 | 0.072 | ppbv | # | 75 |
| 56) 1,1,1,2-Tetrachloroethane | 8.934 | 131 | 2031 | 0.107 | ppbv | # | 47 |
| 57) Chlorobenzene | 8.924 | 112 | 3842 | 0.117 | ppbv | # | 76 |
| 58) Ethyl Benzene | 9.361 | 91 | 3105 | 0.050 | ppbv | | 95 |
| 59) m/p-Xylene | 9.552 | 91 | 4844 | 0.096 | ppbv | # | 32 |
| 60) o-Xylene | 9.970 | 91 | 5359 | 0.106 | ppbv | | 91 |
| 61) Styrene | 9.872 | 104 | 1549 | 0.064 | ppbv | # | 26 |
| 62) Isopropylbenzene | 10.542 | 105 | 8285 | 0.111 | ppbv | | 97 |
| 63) 1,1,2,2-Tetrachloroethane | 9.966 | 83 | 3646 | 0.111 | ppbv | | 97 |
| 64) n-propylbenzene | 10.996 | 120 | 2186 | 0.117 | ppbv | | 93 |
| 65) tert-Butylbenzene | 11.536 | 119 | 8656 | 0.127 | ppbv | | 85 |
| 66) Benzyl Chloride | 11.617 | 91 | 414 | 0.055 | ppbv | # | 81 |
| 67) sec-Butylbenzene | 11.769 | 105 | 11126 | 0.117 | ppbv | | 96 |
| 69) p-Isopropyltoluene | 11.928 | 119 | 9534 | 0.115 | ppbv | | 98 |
| 70) n-Butylbenzene | 12.284 | 91 | 8684 | 0.101 | ppbv | | 96 |
| 71) 2-Chlorotoluene | 10.905 | 91 | 6703 | 0.115 | ppbv | | 99 |
| 72) 4-Ethyltoluene | 11.128 | 105 | 6463 | 0.104 | ppbv | # | 80 |
| 73) 1,3,5-Trimethylbenzene | 11.206 | 105 | 6797 | 0.124 | ppbv | | 96 |
| 74) 1,2,4-Trimethylbenzene | 11.539 | 105 | 8745 | 0.137 | ppbv | # | 81 |
| 75) 1,3-Dichlorobenzene | 11.610 | 146 | 3258 | 0.098 | ppbv | | 85 |
| 76) 1,4-Dichlorobenzene | 11.678 | 146 | 3366 | 0.101 | ppbv | | 92 |
| 77) 1,2-Dichlorobenzene | 11.950 | 146 | 3996 | 0.124 | ppbv | | 93 |
| 78) Hexachloro-1,3-Butadiene | 13.883 | 225 | 4030 | 0.124 | ppbv | | 97 |
| 79) Naphthalene | 13.517 | 128 | 7664 | 0.100 | ppbv | # | 92 |
| 80) Naphthalene,2-methyl- | 14.468 | 142 | 3339 | 0.077 | ppbv | # | 92 |
| 81) 1,2,4-Trichlorobenzene | 13.442 | 180 | 2245 | 0.069 | ppbv | # | 95 |

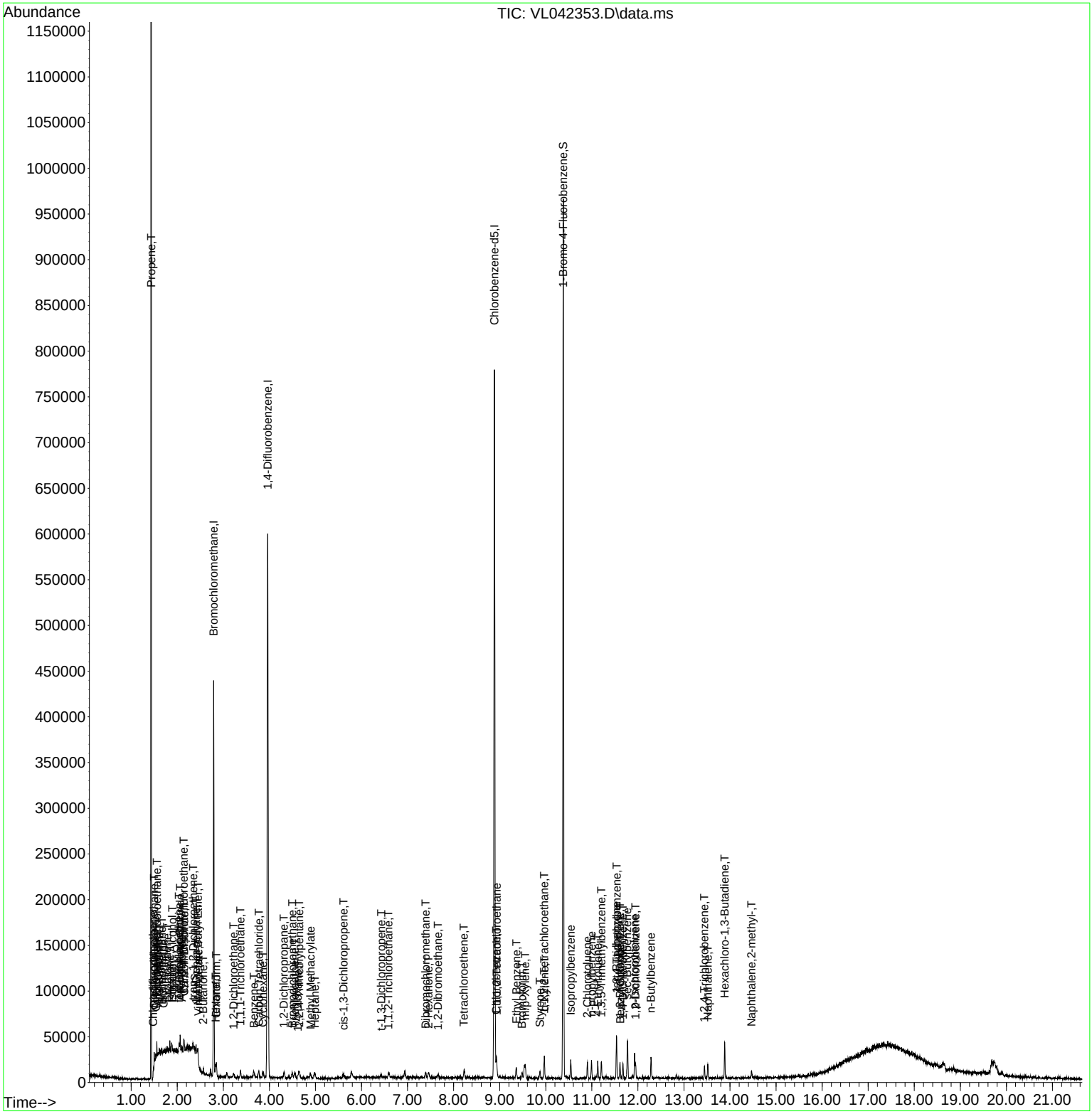
(#) = qualifier out of range (m) = manual integration (+) = signals summed

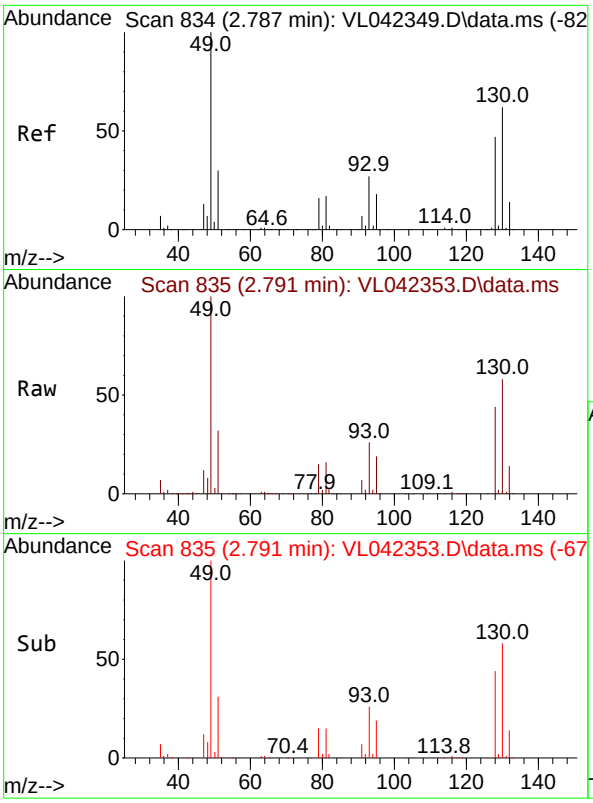
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042353.D
Acq On : 17 Apr 2025 11:50
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Quant Time: Apr 18 01:29:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration



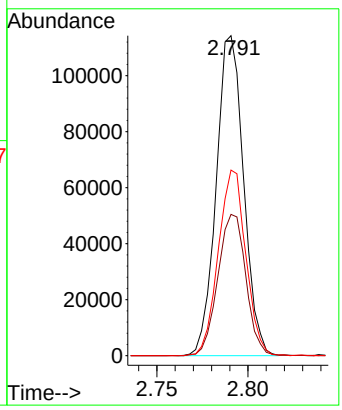


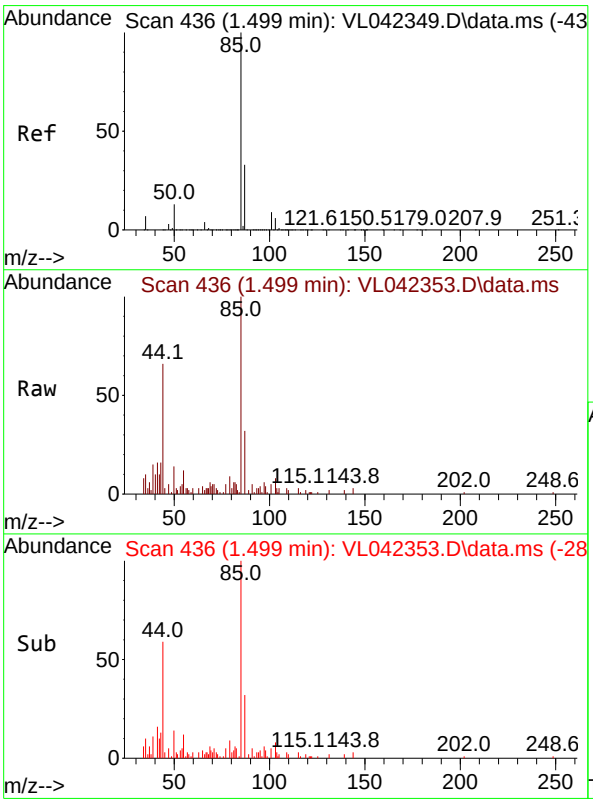

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 8
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion: 49 Resp: 119461

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 45.3 | 22.8 | 68.4 |
| 130 | 58.3 | 29.3 | 88.0 |

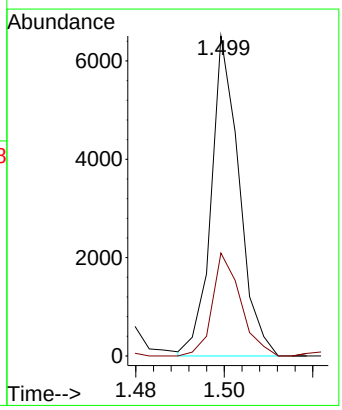


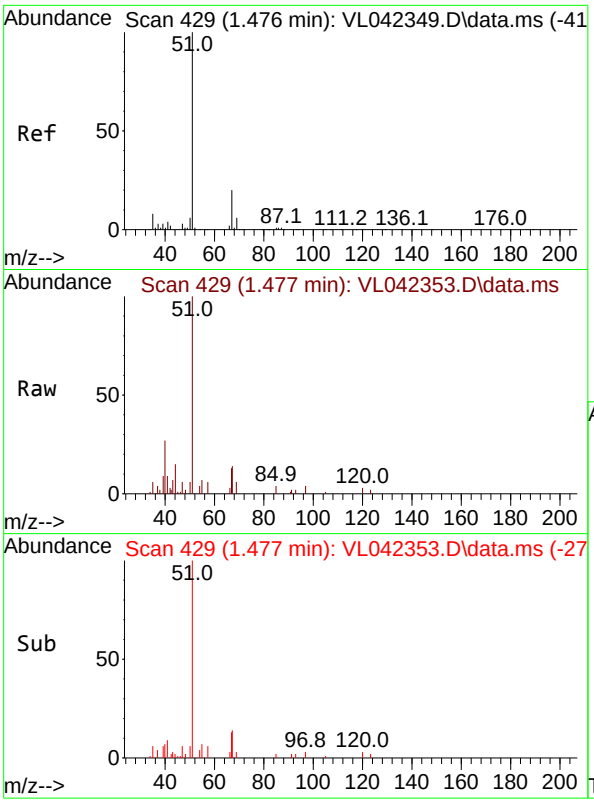




#2
Dichlorodifluoromethane
Concen: 0.135 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 85 Resp: 2857

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.2 | 26.6 | 39.8 |



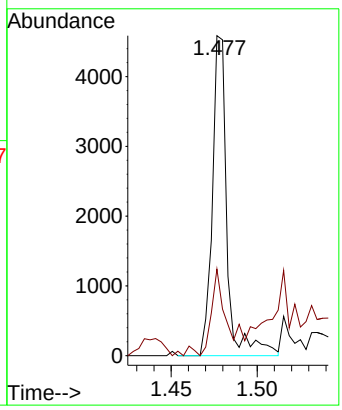


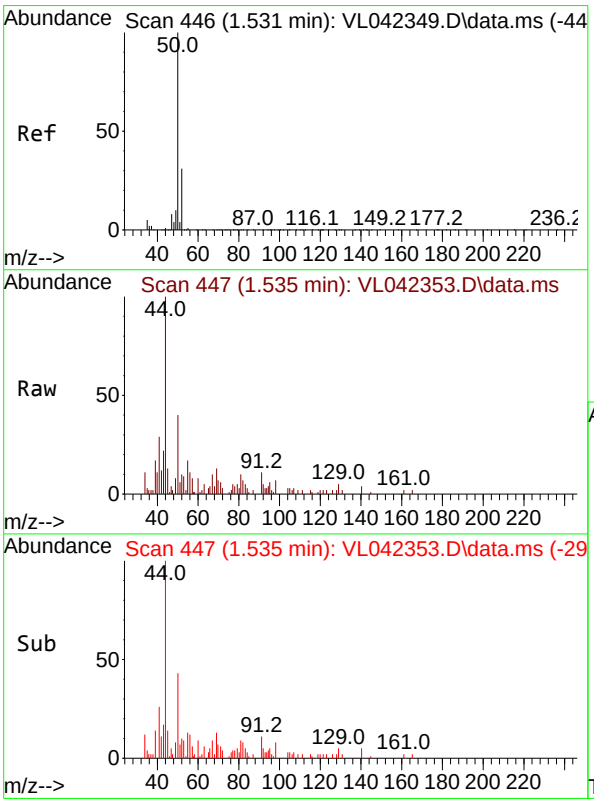

#3
Chlorodifluoromethane
Concen: 0.135 ppbv
RT: 1.477 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion: 51 Resp: 2706

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 24.5 | 16.2 | 24.4# |

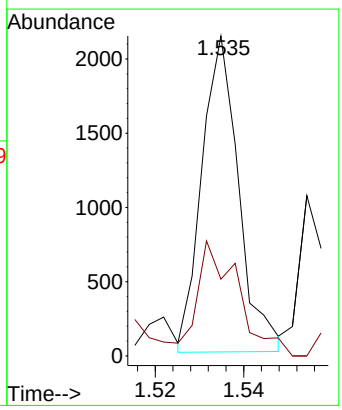


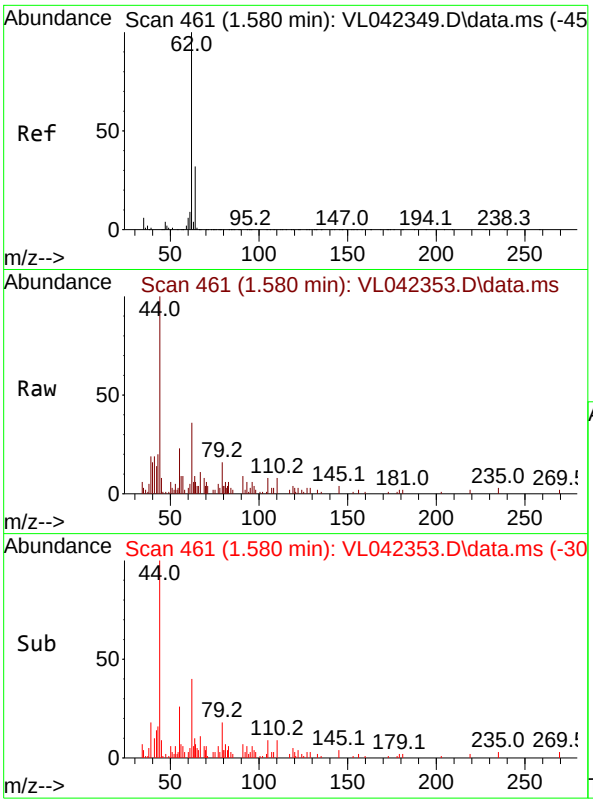




#4
Chloromethane
Concen: 0.147 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 50 Resp: 1225

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 22.9 | 24.7 | 37.1# |



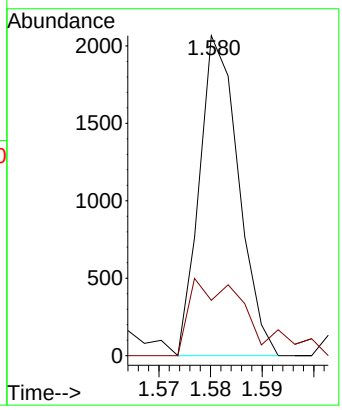


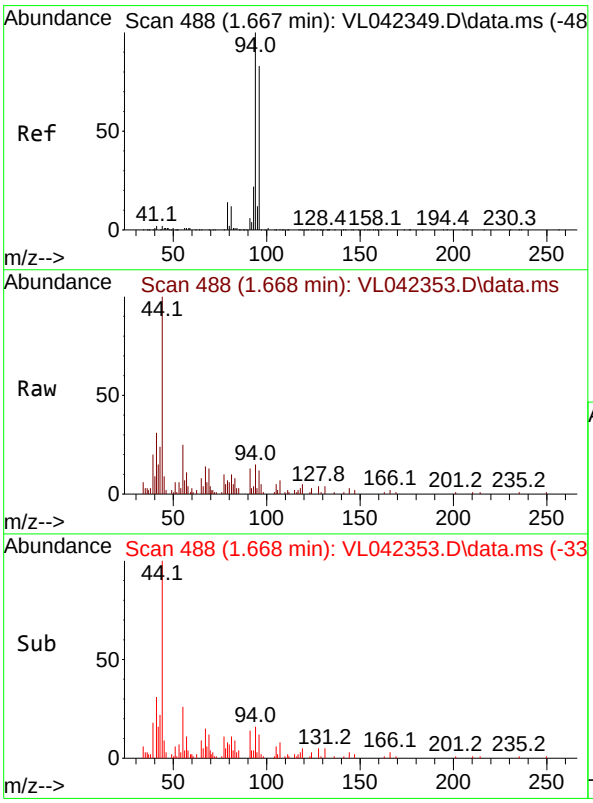

#5
Vinyl Chloride
Concen: 0.120 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion: 62 Resp: 1088

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 17.3 | 25.4 | 38.0# |

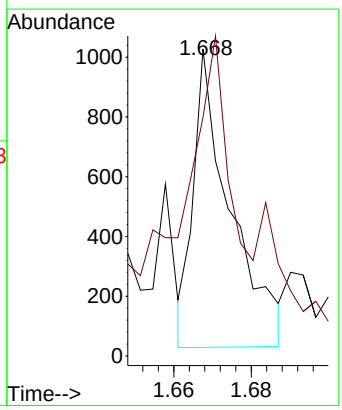


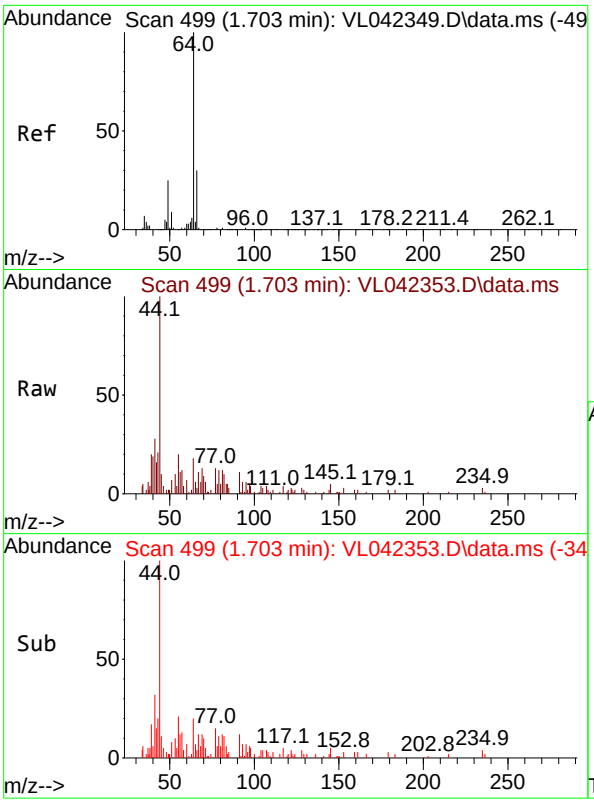




#6
Bromomethane
Concen: 0.168 ppbv
RT: 1.668 min Scan# 488
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 94 Resp: 663

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 57.5 | 66.2 | 99.2# |



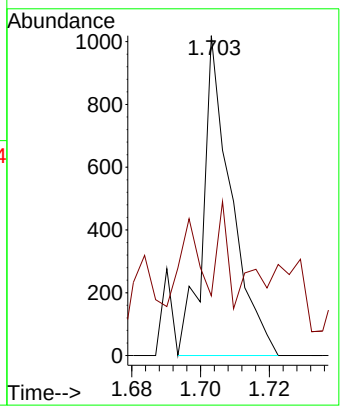


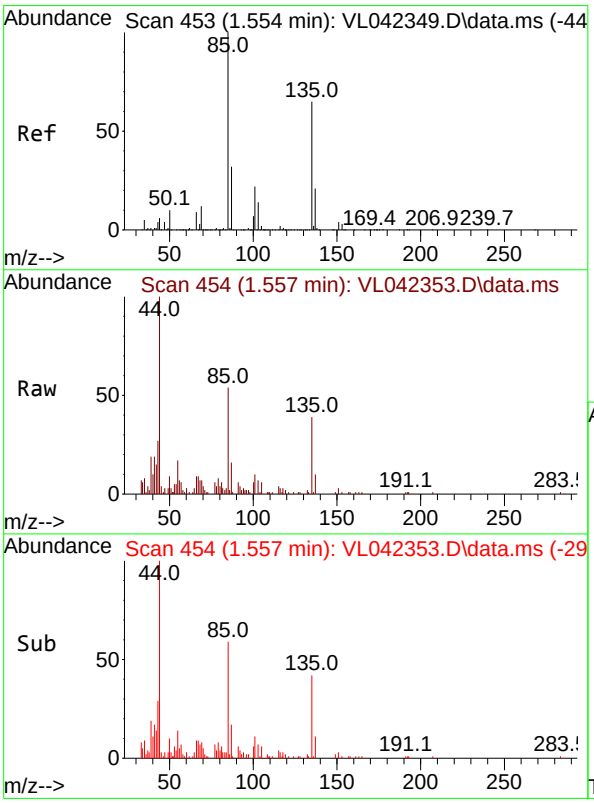

#7
Chloroethane
Concen: 0.176 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion: 64 Resp: 579

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 18.6 | 24.6 | 37.0# |

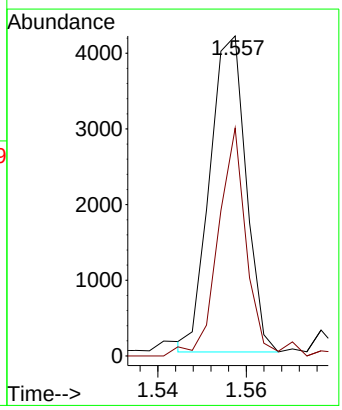


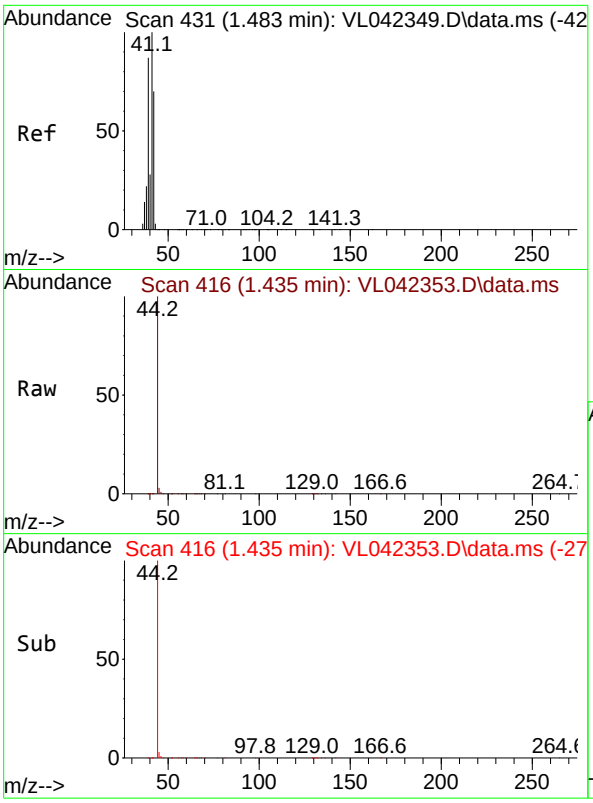




#8
Dichlorotetrafluoroethane
Concen: 0.131 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 85 Resp: 2377

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 60.3 | 52.2 | 78.2 |



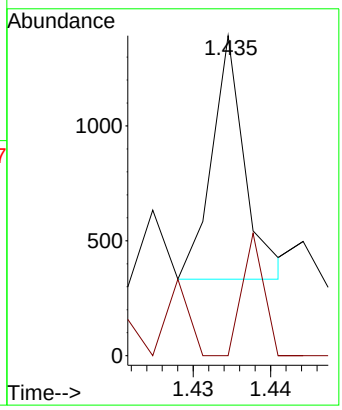


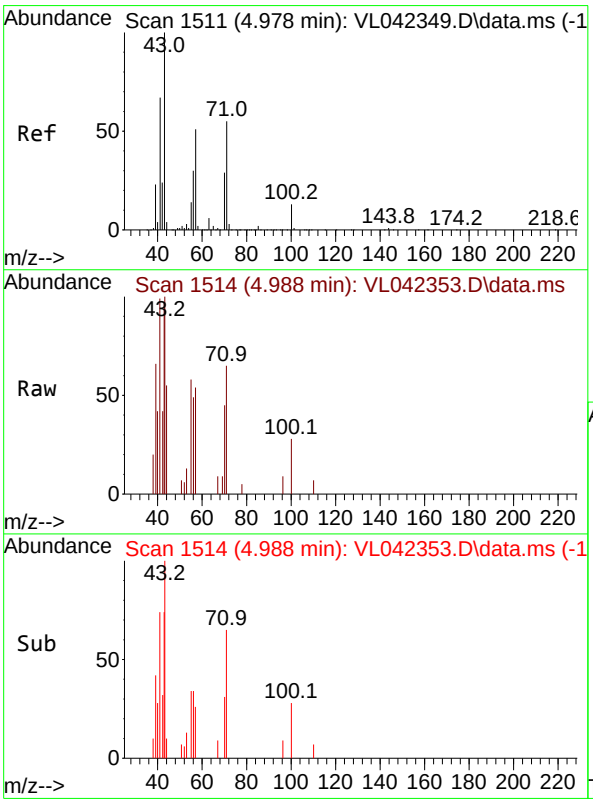

#9
Propene
Concen: 0.034 ppbv
RT: 1.435 min Scan# 4
Delta R.T. -0.048 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion: 41 Resp: 314

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 78.7 | 56.2 | 84.4 |

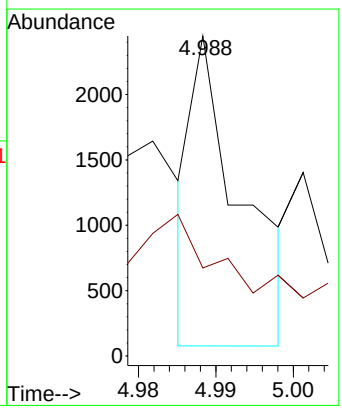


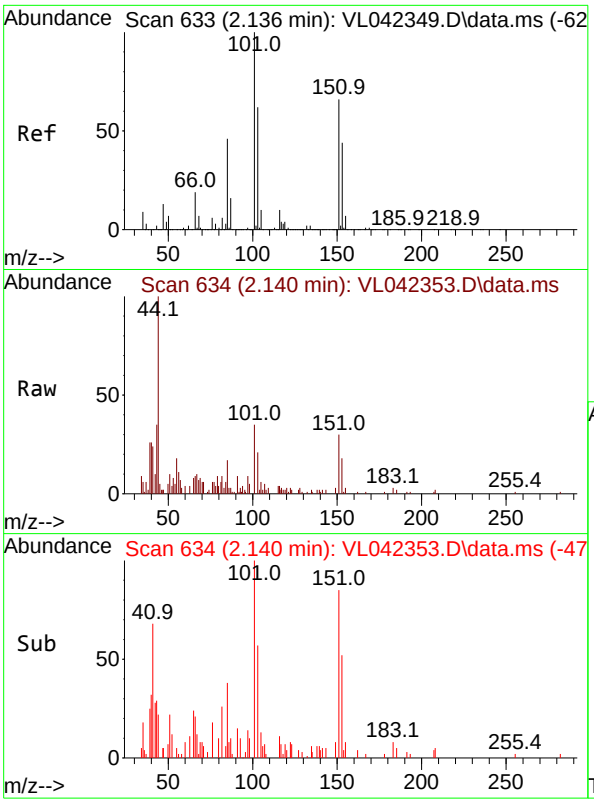




#10
Heptane
Concen: 0.043 ppbv
RT: 4.988 min Scan# 1514
Delta R.T. 0.010 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 43 Resp: 1056

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 220.7 | 39.9 | 59.9# |



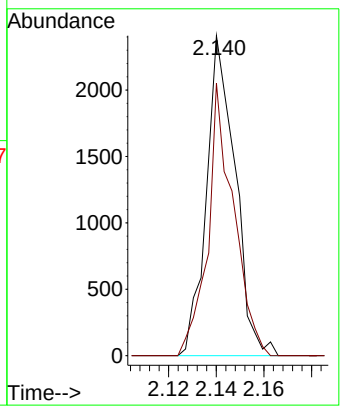


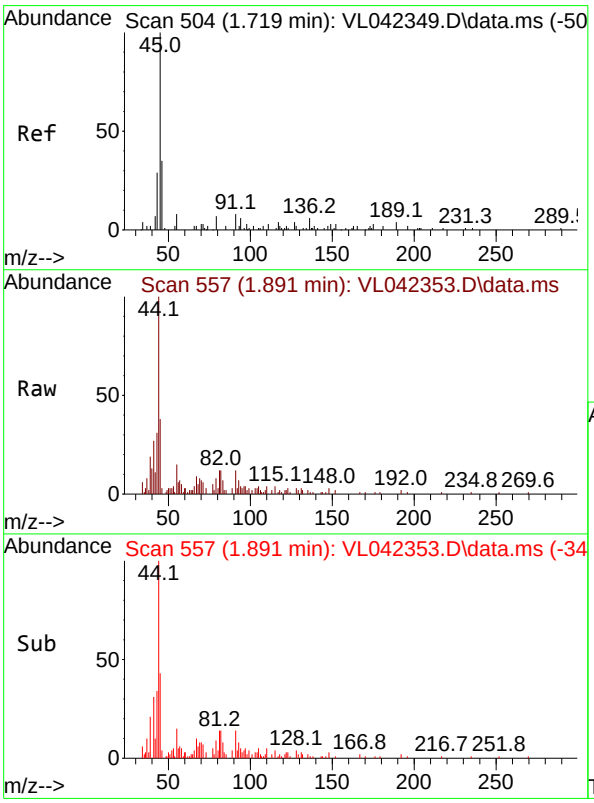

#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.123 ppbv
RT: 2.140 min Scan# 6
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion:101 Resp: 2017

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 76.2 | 57.0 | 85.6 |

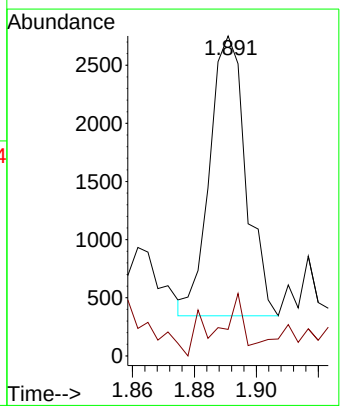


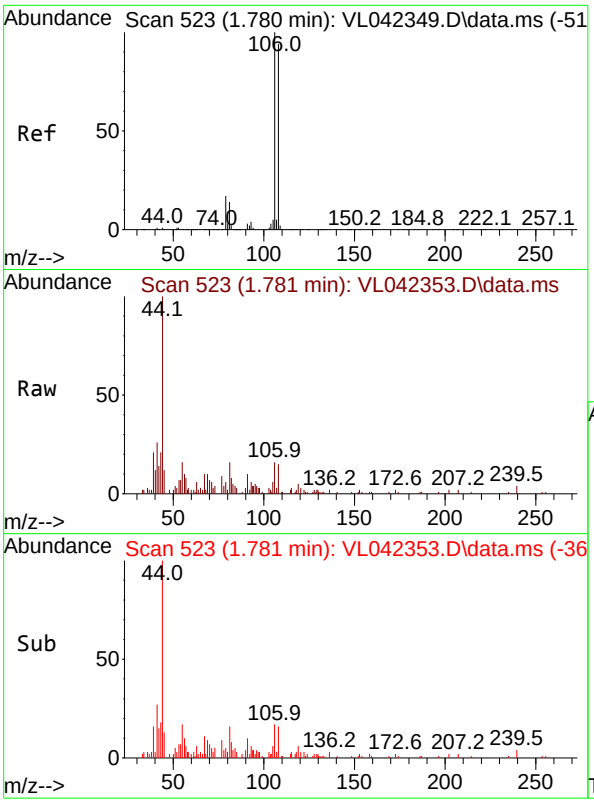




#13
Ethanol
Concen: 2.618 ppbv
RT: 1.891 min Scan# 557
Delta R.T. 0.172 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 45 Resp: 1958

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 0.0 | 21.9 | 87.7# |



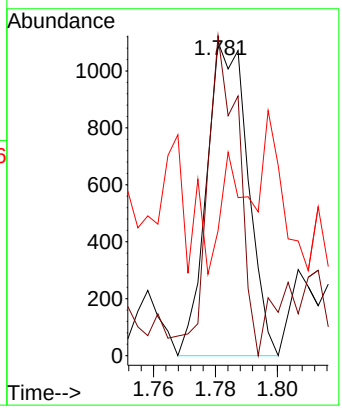


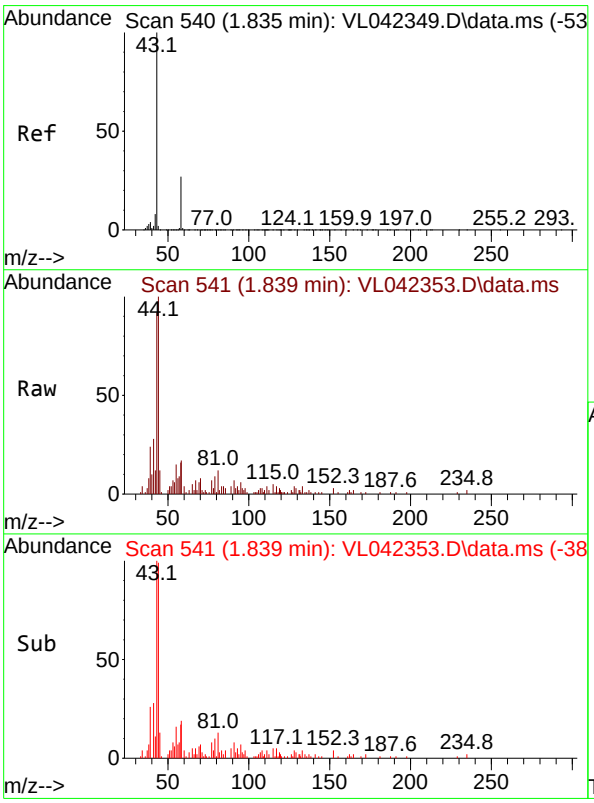

#14
Bromoethene
Concen: 0.164 ppbv
RT: 1.781 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion:108 Resp: 1015

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 106 | 128.3 | 85.9 | 128.9 |
| 79 | 0.0 | 13.9 | 20.9# |

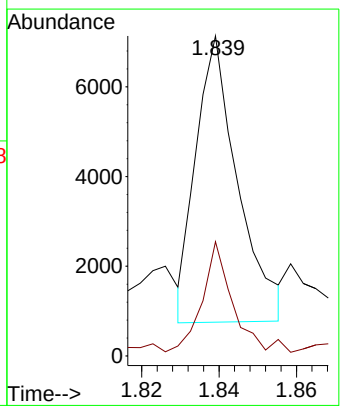


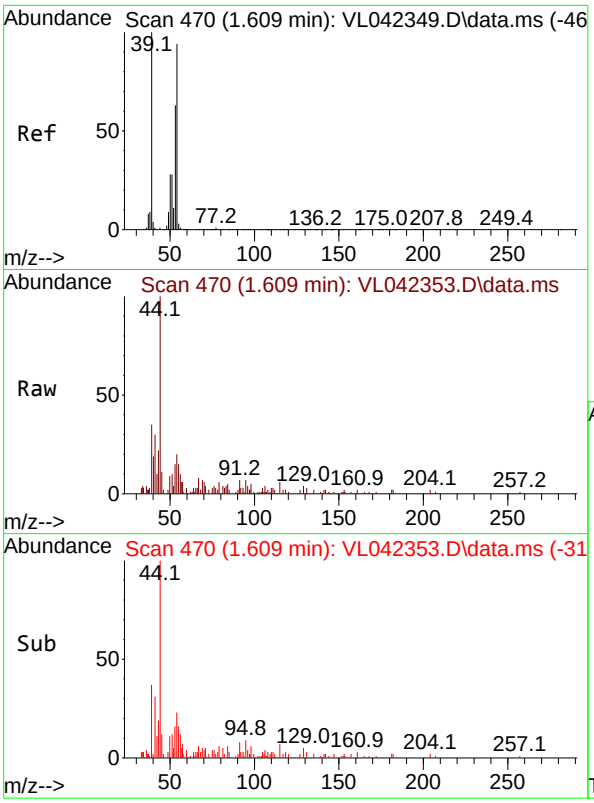




#15
Acetone
Concen: 0.245 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 43 Resp: 4783

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 37.5 | 22.4 | 33.6# |



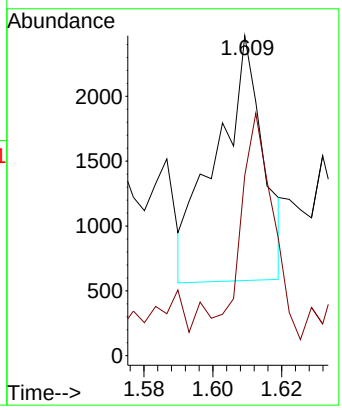


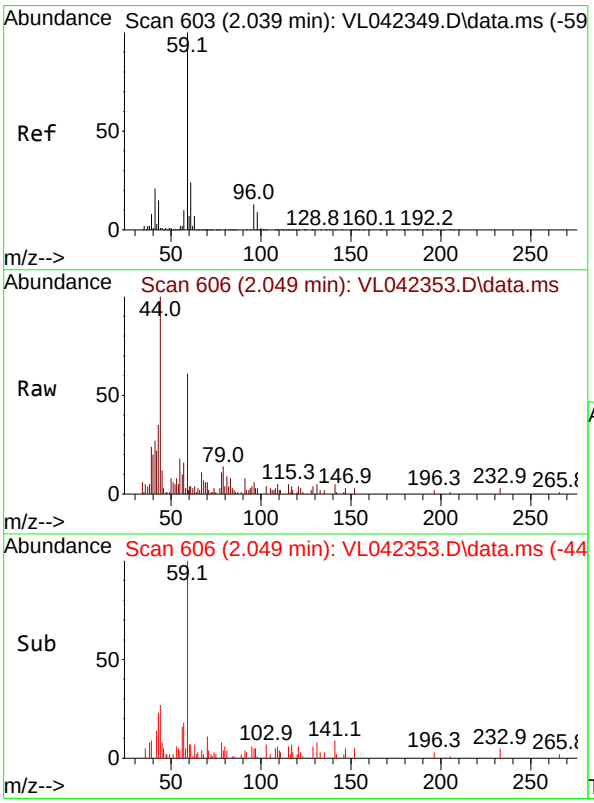

#16
1,3-Butadiene
Concen: 0.193 ppbv
RT: 1.609 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion: 39 Resp: 1776

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 128.7 | 64.9 | 97.3# |

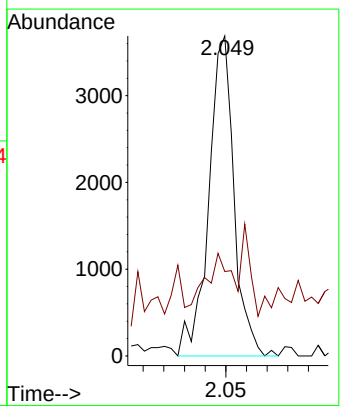


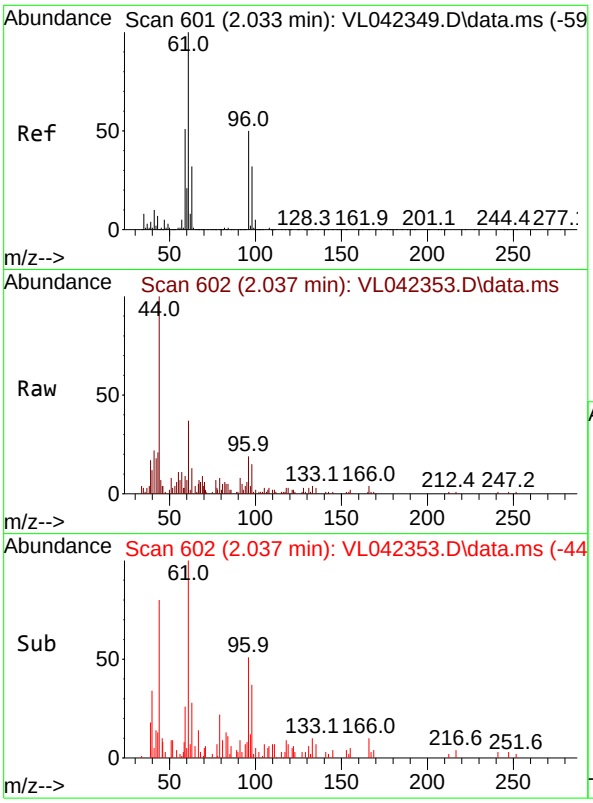




#17
tert-Butyl alcohol
Concen: 0.129 ppbv
RT: 2.049 min Scan# 606
Delta R.T. 0.010 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 59 Resp: 3130

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 46.5 | 8.7 | 13.1# |



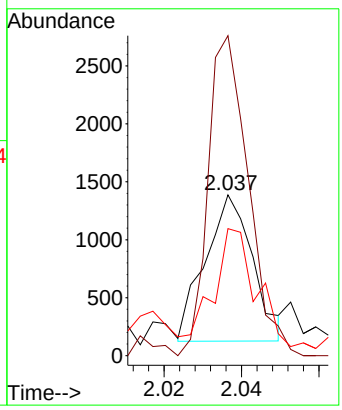


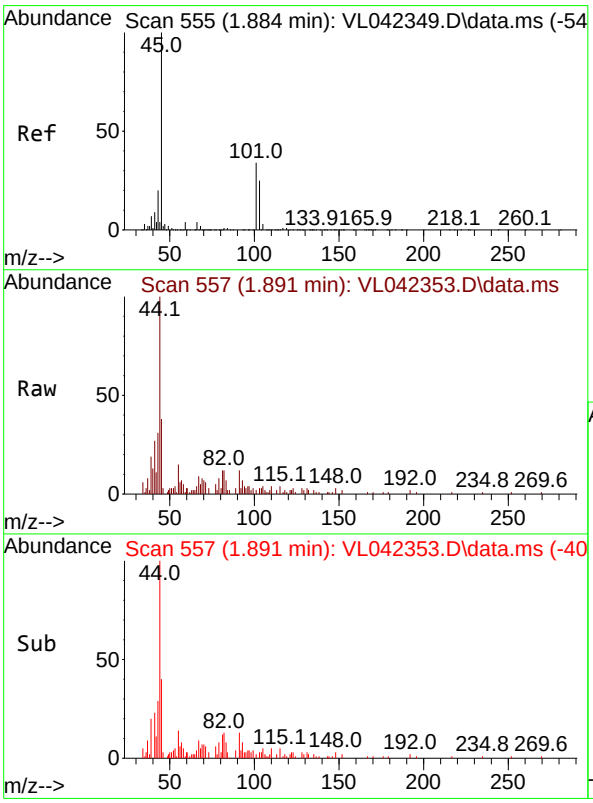

#18
1,1-Dichloroethene
Concen: 0.136 ppbv
RT: 2.037 min Scan# 6
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion: 96 Resp: 1074

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 222.5 | 160.2 | 240.2 |
| 98 | 75.2 | 51.0 | 76.4 |

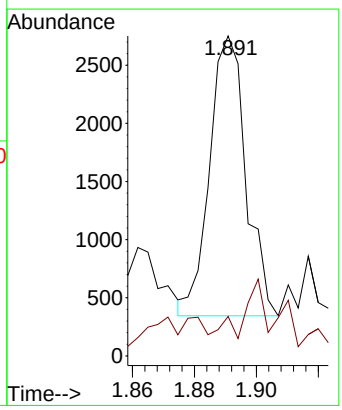


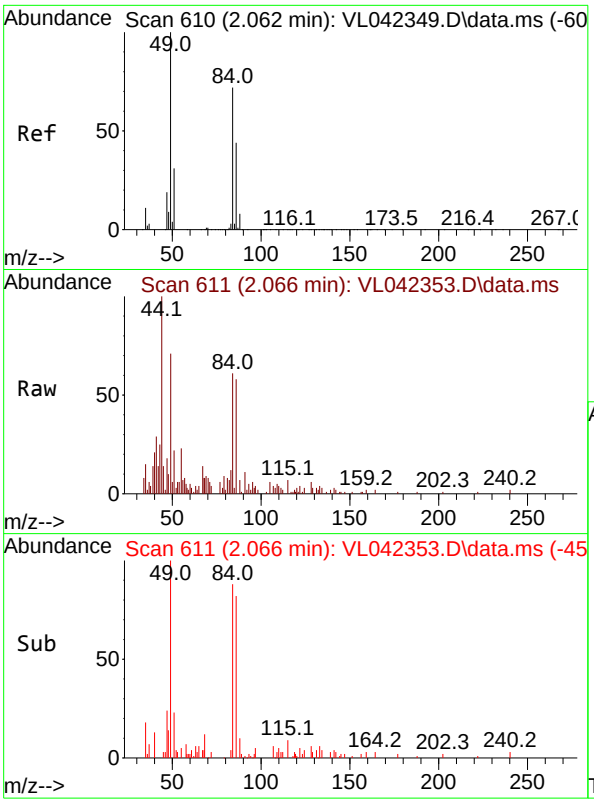




#19
Isopropyl Alcohol
Concen: 0.180 ppbv
RT: 1.891 min Scan# 557
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 45 Resp: 1958

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 49.5 | 34.5 | 51.7 |



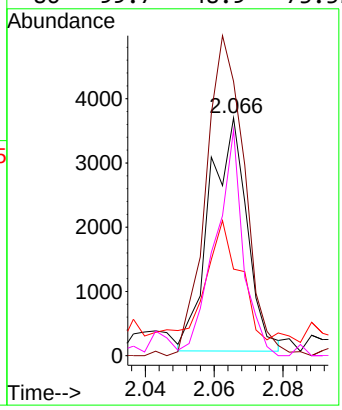


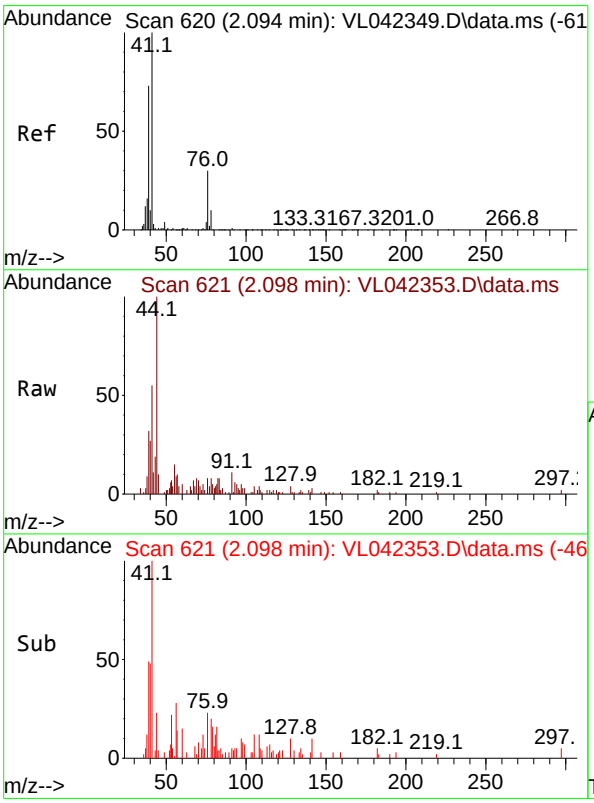

#20
Methylene Chloride
Concen: 0.358 ppbv
RT: 2.066 min Scan# 61
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion: 84 Resp: 2741

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 119.3 | 111.6 | 167.4 |
| 51 | 28.2 | 35.1 | 52.7# |
| 86 | 99.7 | 48.9 | 73.3# |

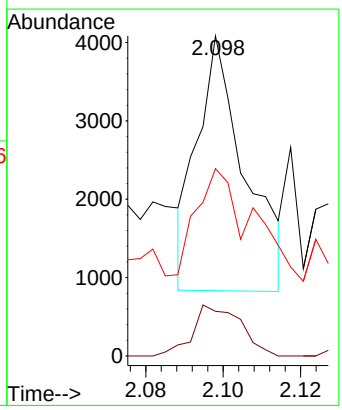


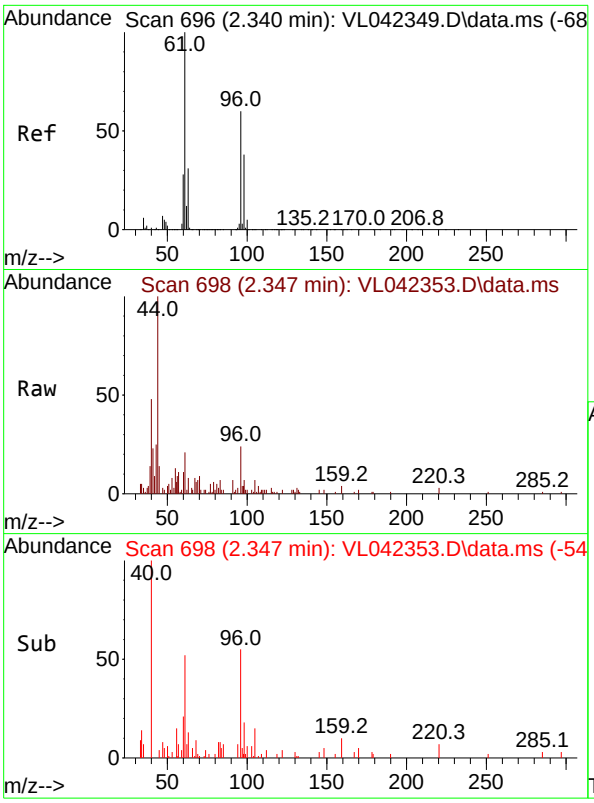




#21
Allyl Chloride
Concen: 0.206 ppbv
RT: 2.098 min Scan# 621
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 41 Resp: 2786

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 20.0 | 24.8 | 37.2# |
| 39 | 102.2 | 60.6 | 90.8# |



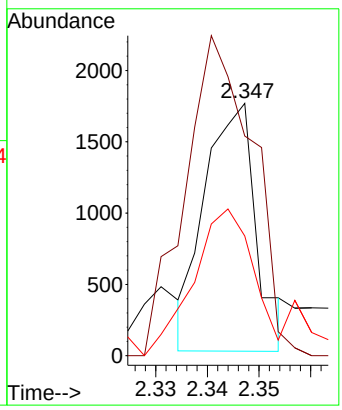


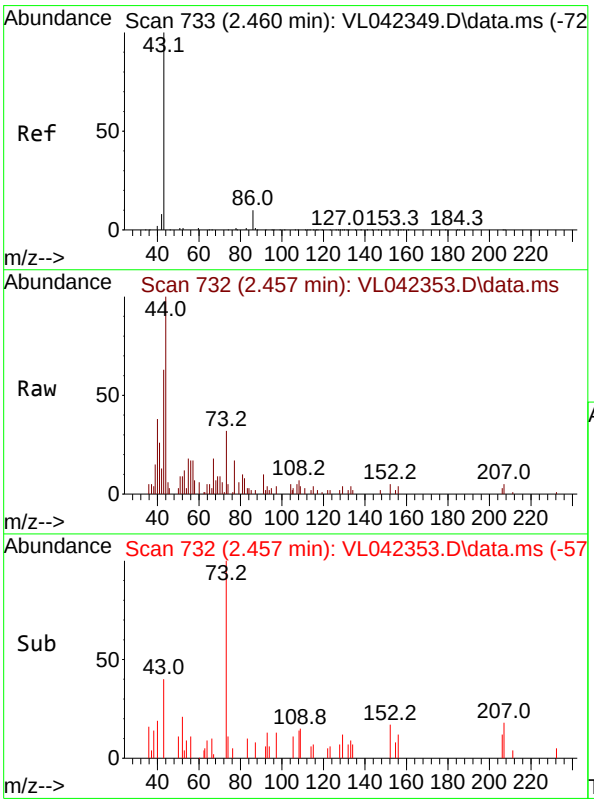

#22
trans-1,2-Dichloroethene
Concen: 0.138 ppbv
RT: 2.347 min Scan# 6
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion: 96 Resp: 1201

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 99.5 | 133.7 | 200.5# |
| 98 | 52.9 | 50.3 | 75.5 |

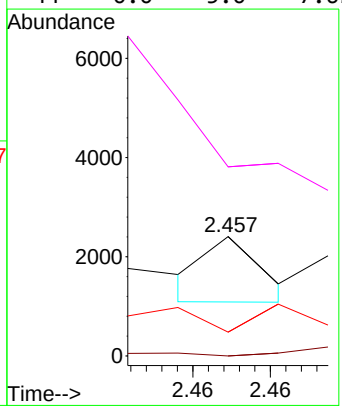


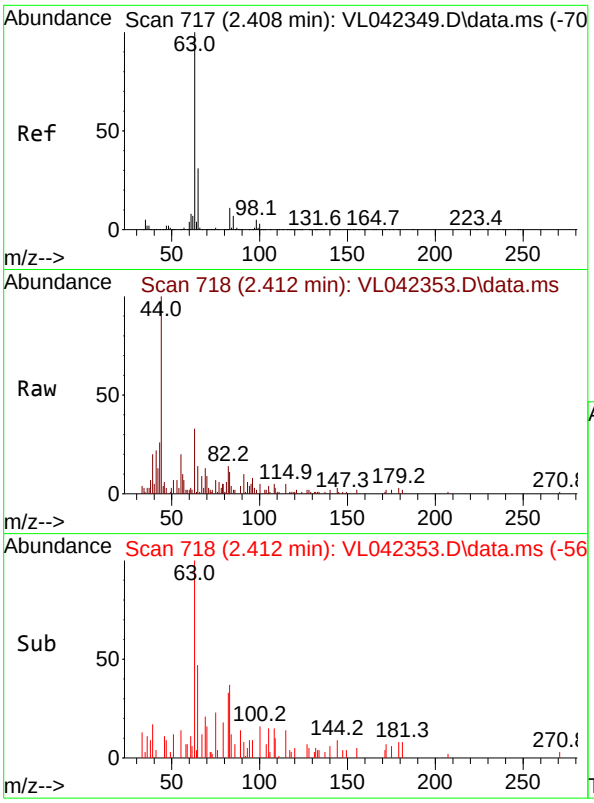




#23
Vinyl Acetate
Concen: 0.041 ppbv
RT: 2.457 min Scan# 732
Delta R.T. -0.003 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 43 Resp: 326

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 0.0 | 6.5 | 9.7# |
| 42 | 0.0 | 7.8 | 11.8# |
| 44 | 0.0 | 5.0 | 7.6# |



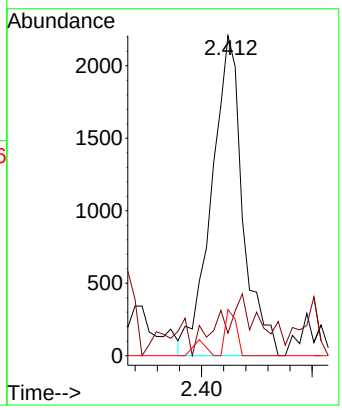


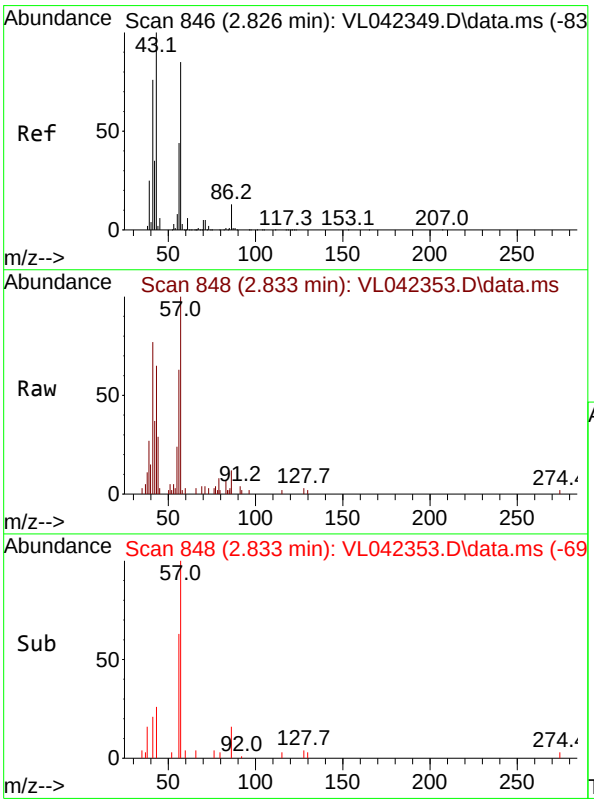

#24
1,1-Dichloroethane
Concen: 0.131 ppbv
RT: 2.412 min Scan# 7
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion: 63 Resp: 2169

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 0.0 | 2.3 | 6.8# |
| 100 | 14.4 | 1.6 | 4.8# |

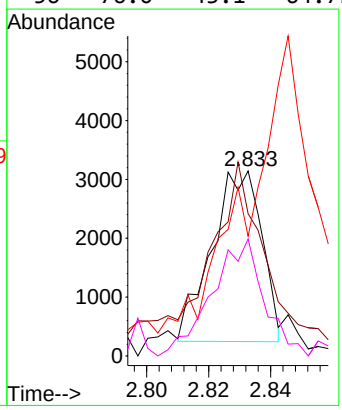


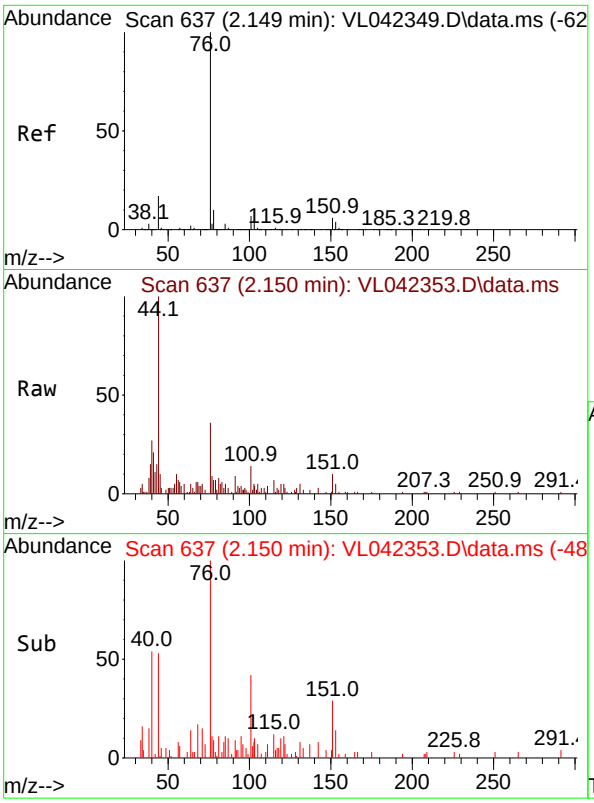




#26
Hexane
Concen: 0.167 ppbv
RT: 2.833 min Scan# 848
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 57 Resp: 3260

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 134.5 | 77.9 | 116.9# |
| 43 | 0.0 | 208.4 | 312.6# |
| 56 | 76.0 | 43.1 | 64.7# |



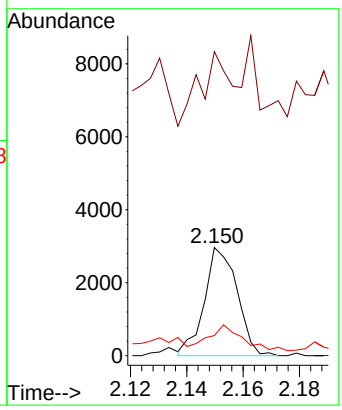


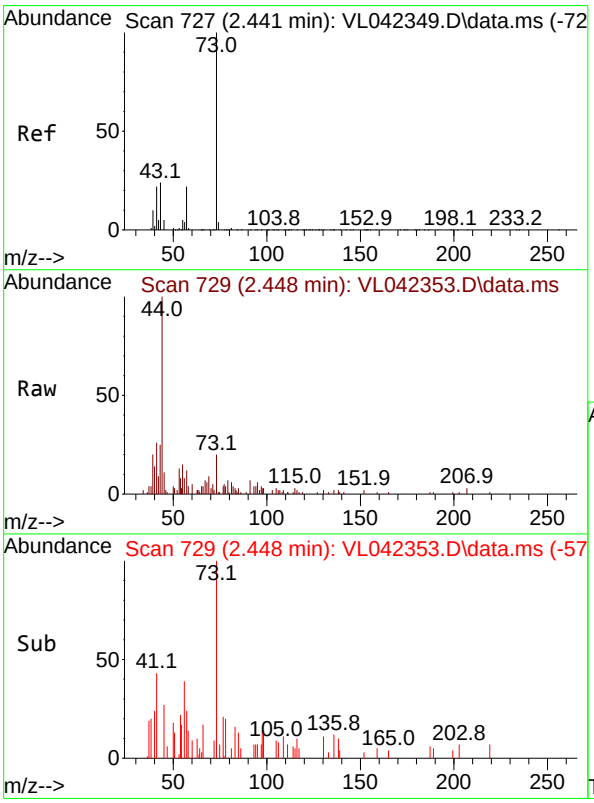

#27
Carbon Disulfide
Concen: 0.115 ppbv
RT: 2.150 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion: 76 Resp: 2396

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 214.1 | 15.5 | 23.3# |
| 78 | 41.9 | 9.3 | 13.9# |

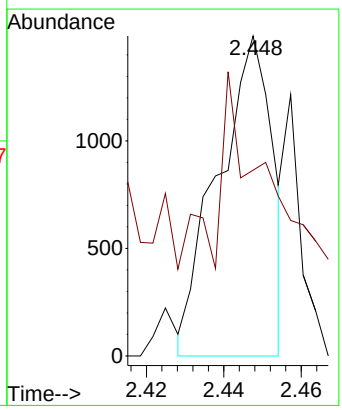


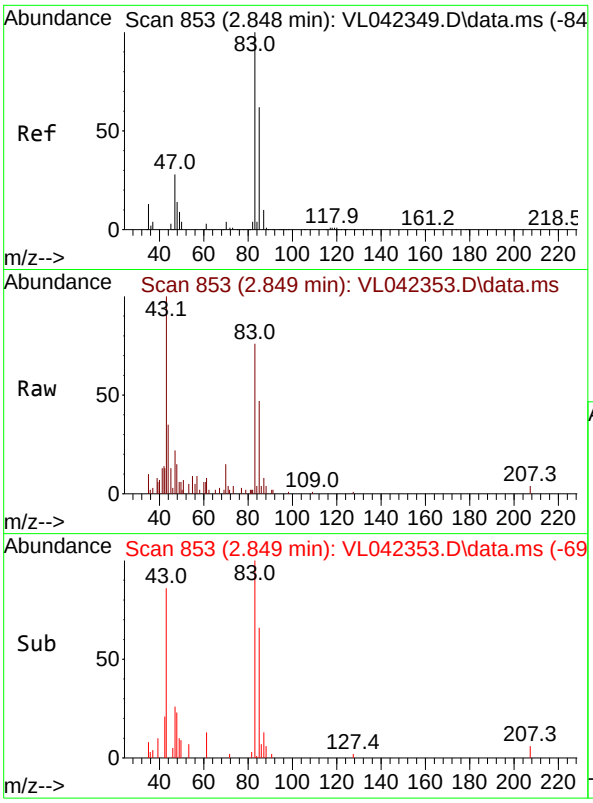




#28
Methyl tert-Butyl Ether
Concen: 0.114 ppbv
RT: 2.448 min Scan# 729
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 73 Resp: 1460

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 84.5 | 21.3 | 31.9# |



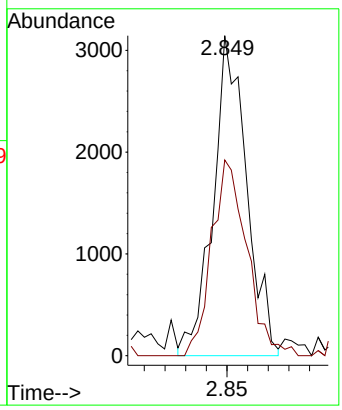


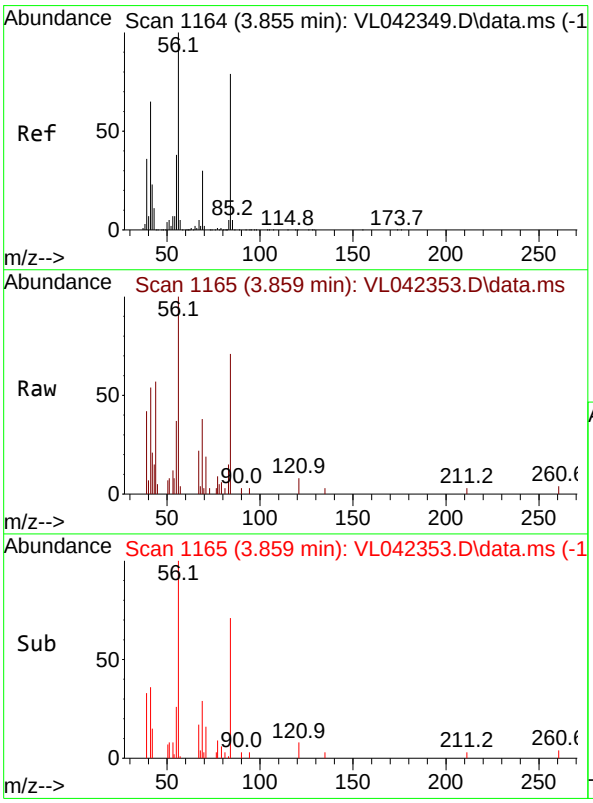

#29
Chloroform
Concen: 0.128 ppbv
RT: 2.849 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion: 83 Resp: 3542

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.5 | 50.0 | 75.0 |

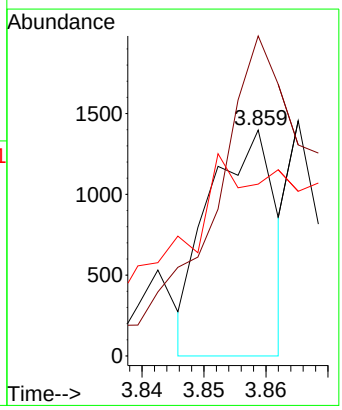


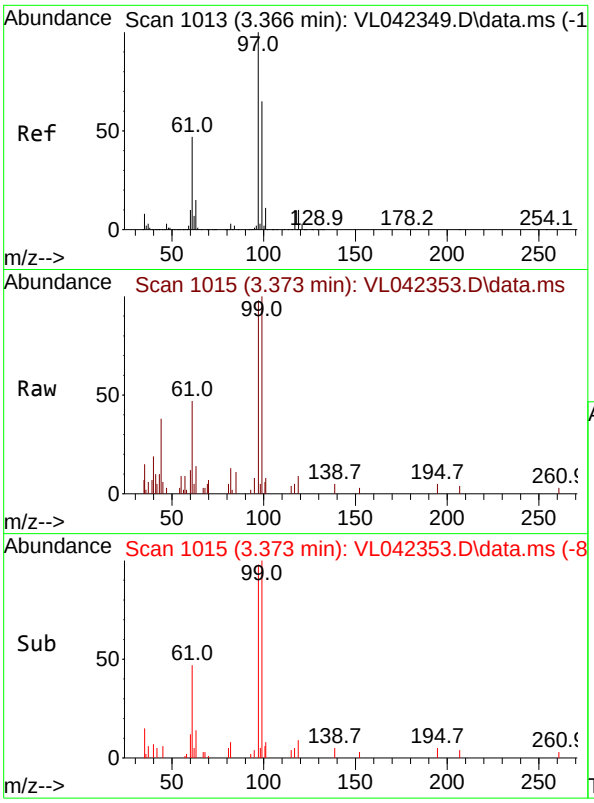




#30
Cyclohexane
Concen: 0.066 ppbv
RT: 3.859 min Scan# 1165
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 84 Resp: 1037

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 278.1 | 101.0 | 151.4# |
| 41 | 346.5 | 67.4 | 101.0# |



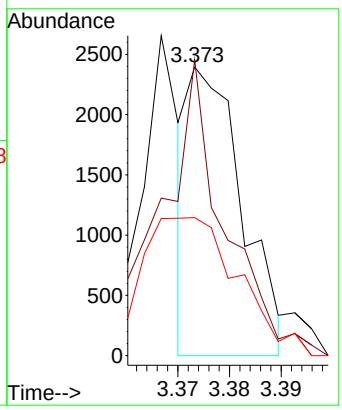


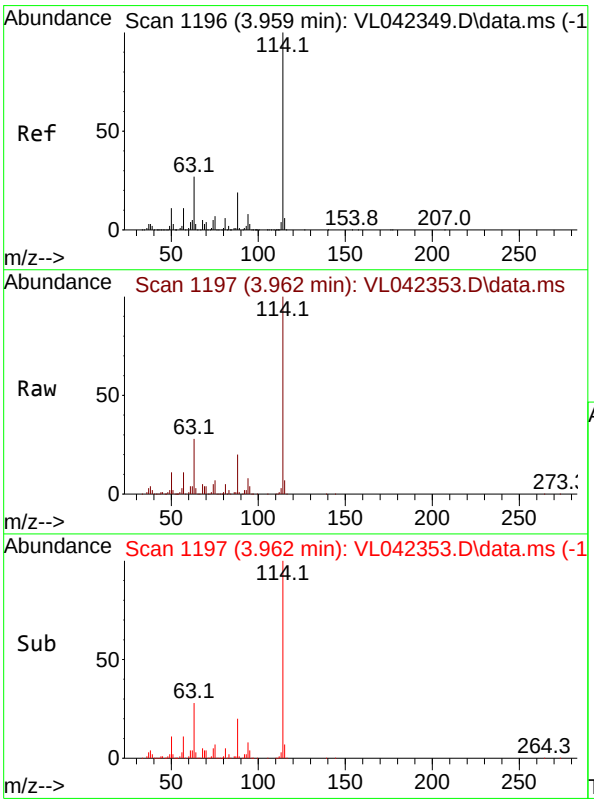

#32
1,1,1-Trichloroethane
Concen: 0.059 ppbv
RT: 3.373 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion: 97 Resp: 1734

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 133.4 | 51.0 | 76.4# |
| 61 | 93.7 | 38.8 | 58.2# |

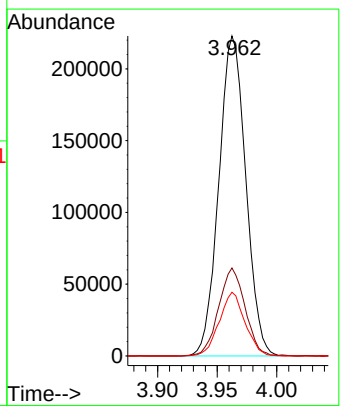


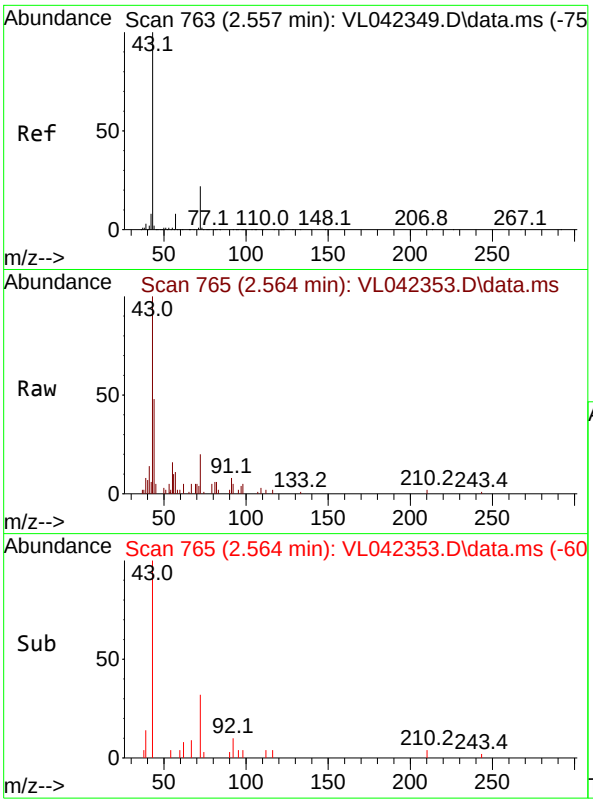




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:114 Resp: 350484

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 26.9 | 21.8 | 32.6 |
| 88 | 19.1 | 15.5 | 23.3 |



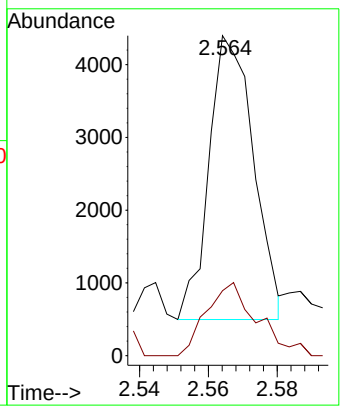


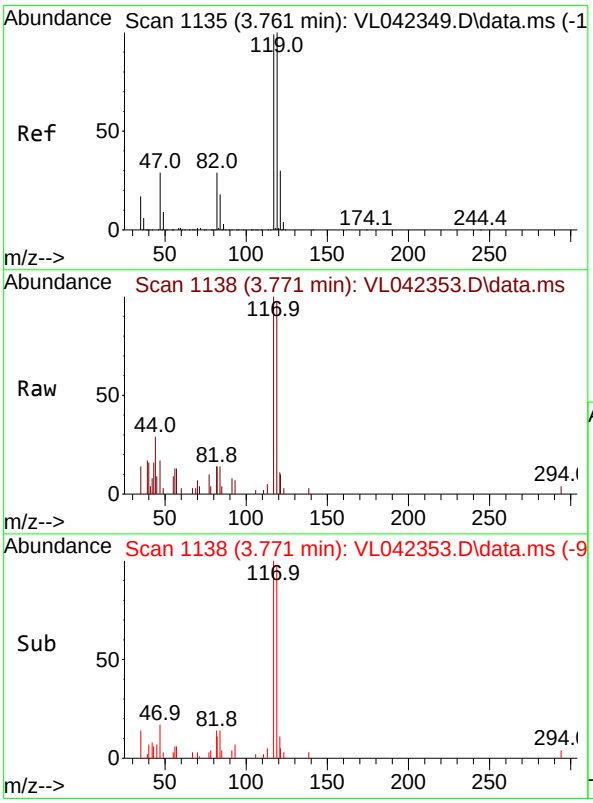

#34
2-Butanone
Concen: 0.126 ppbv
RT: 2.564 min Scan# 7
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion: 43 Resp: 3506

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 32.7 | 18.2 | 27.2# |

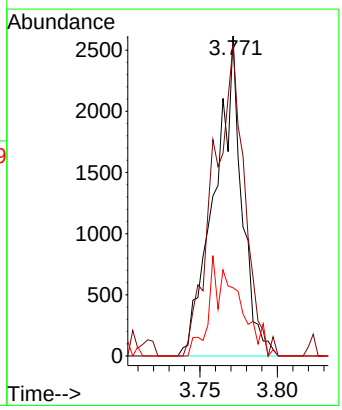


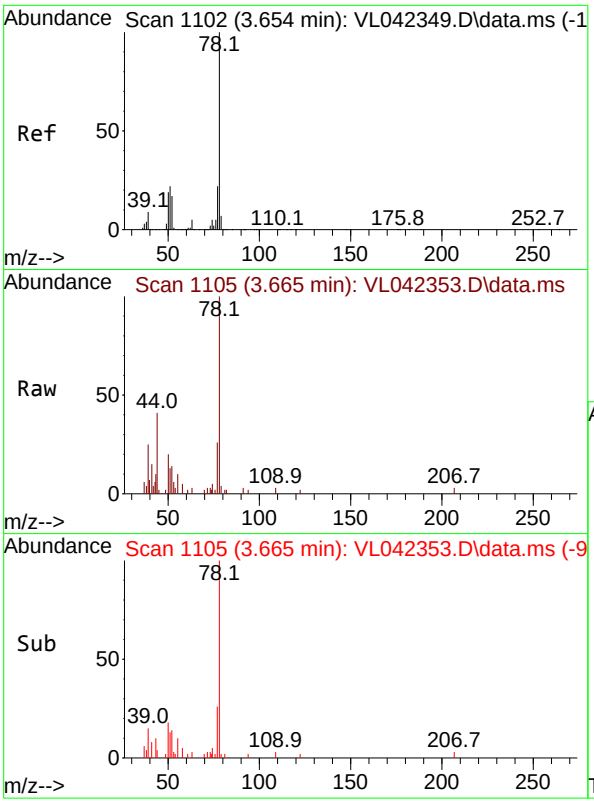




#35
Carbon Tetrachloride
Concen: 0.101 ppbv
RT: 3.771 min Scan# 1138
Delta R.T. 0.010 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:117 Resp: 3204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 97.3 | 80.5 | 120.7 |
| 121 | 21.3 | 24.2 | 36.2# |



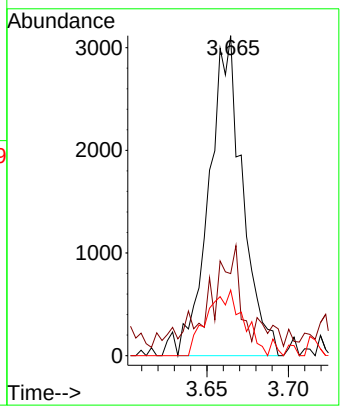


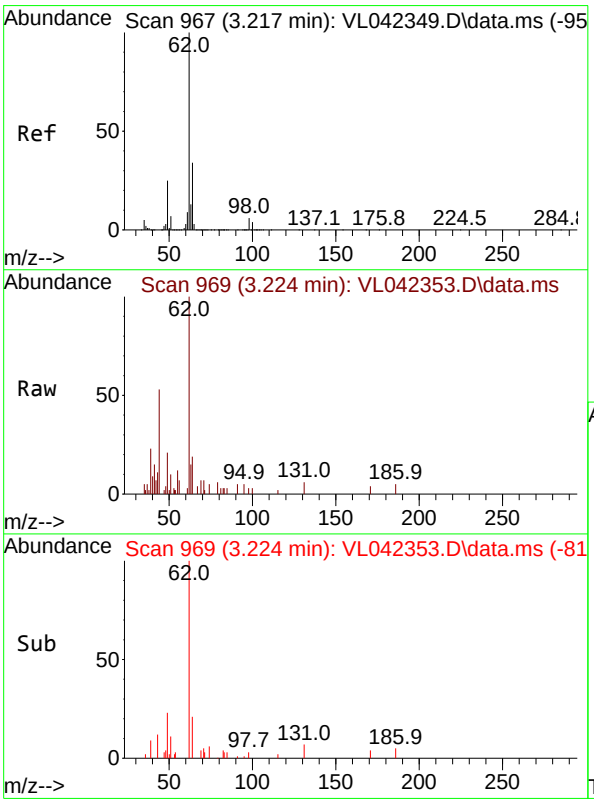

#36
Benzene
Concen: 0.117 ppbv
RT: 3.665 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion: 78 Resp: 4424

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 20.4 | 17.4 | 26.0 |
| 50 | 20.5 | 15.5 | 23.3 |

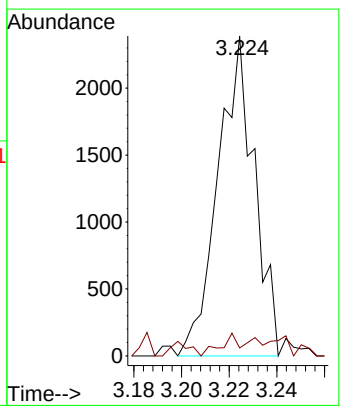


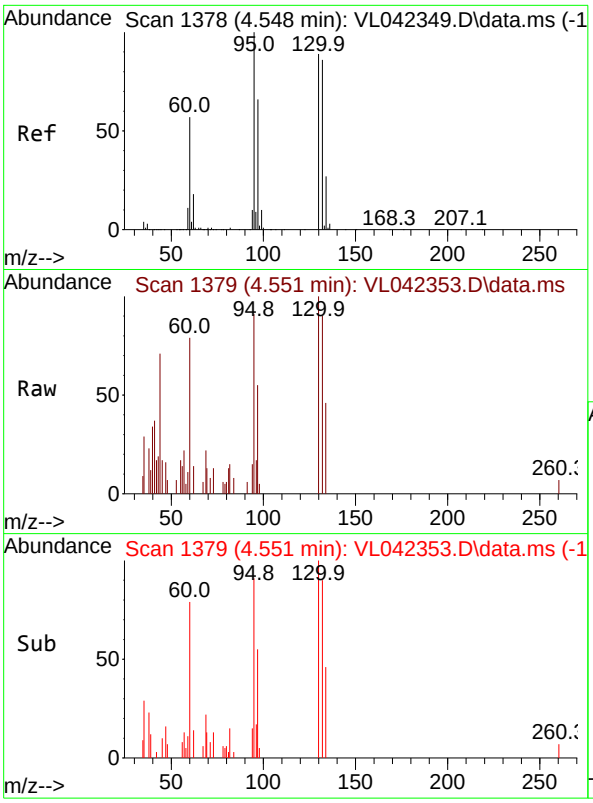




#37
1,2-Dichloroethane
Concen: 0.111 ppbv
RT: 3.224 min Scan# 969
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 62 Resp: 2523

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 0.0 | 5.1 | 7.7# |



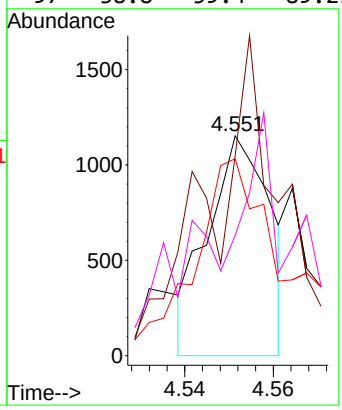


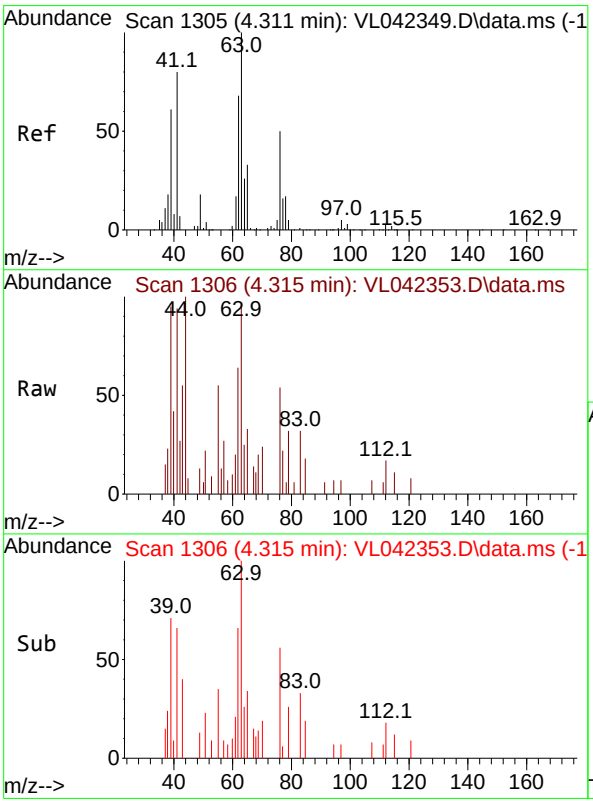

#38
Trichloroethene
Concen: 0.067 ppbv
RT: 4.551 min Scan# 1
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion:130 Resp: 1113

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 60.4 | 89.8 | 134.6# |
| 132 | 78.4 | 77.7 | 116.5 |
| 97 | 38.8 | 59.4 | 89.2# |

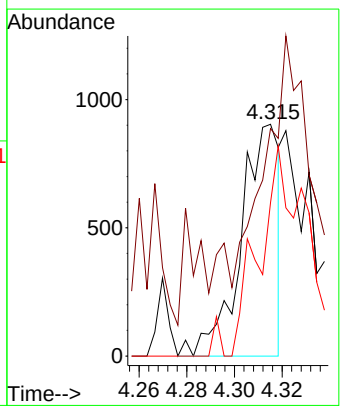


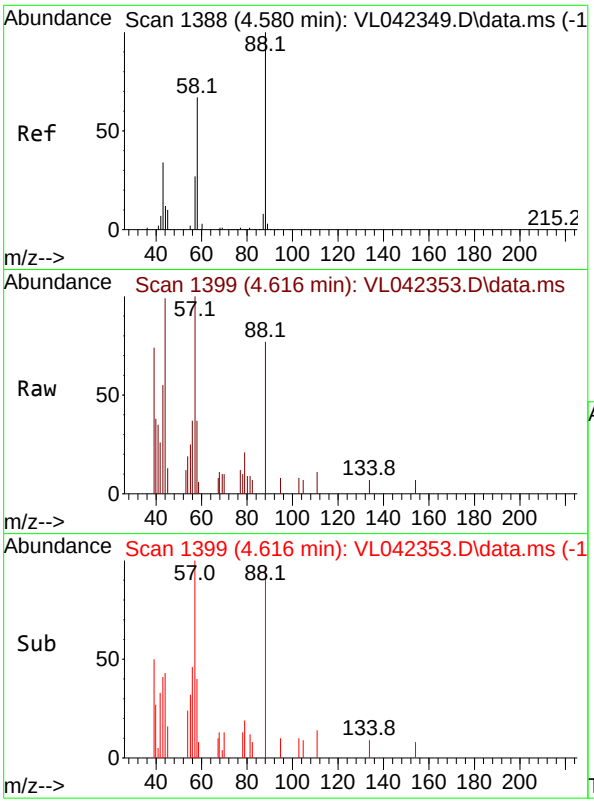




#39
1,2-Dichloropropane
Concen: 0.071 ppbv
RT: 4.315 min Scan# 1306
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 63 Resp: 1007

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 84.8 | 64.2 | 96.2 |
| 62 | 66.2 | 54.3 | 81.5 |



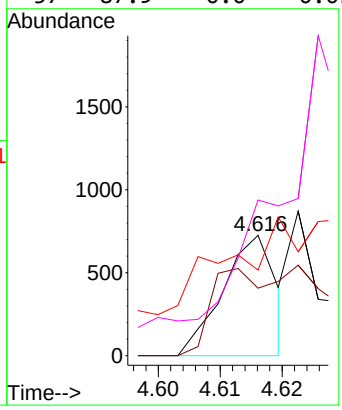


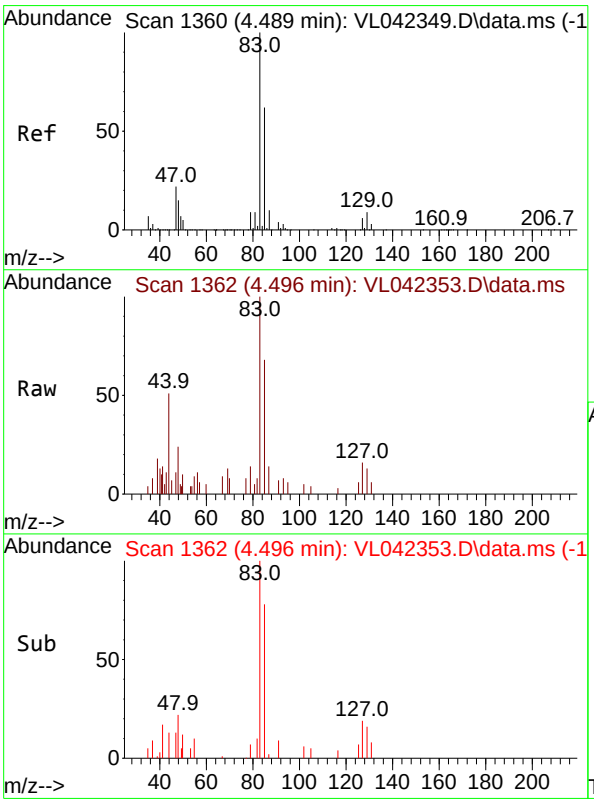

#40
1,4-Dioxane
Concen: 0.056 ppbv
RT: 4.616 min Scan# 1
Delta R.T. 0.036 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion: 88 Resp: 431

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 18.1 | 61.4 | 92.0# |
| 43 | 247.6 | 23.2 | 34.8# |
| 57 | 87.9 | 0.0 | 0.0# |

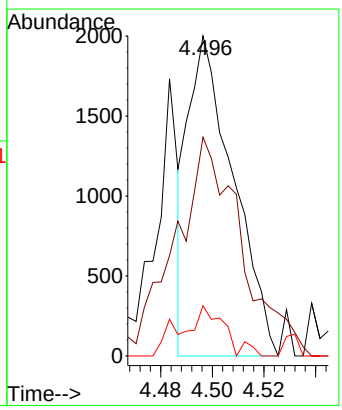


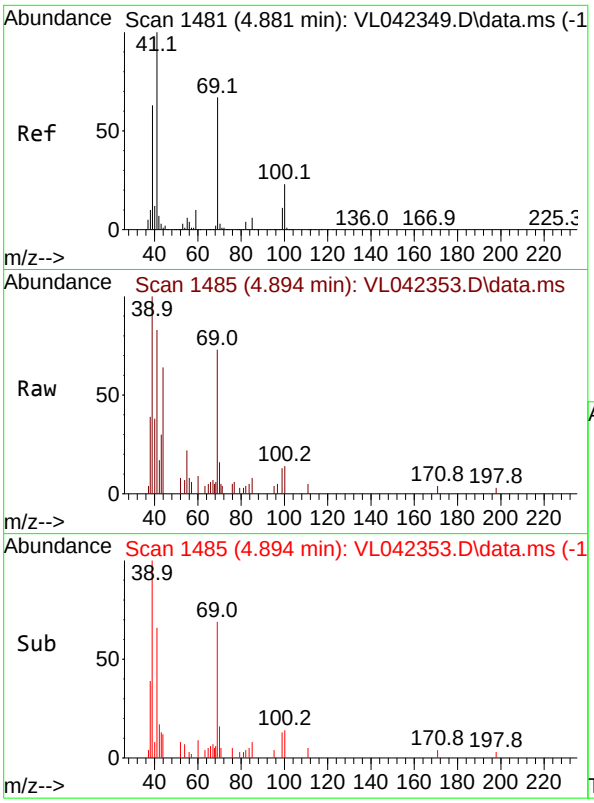




#42
Bromodichloromethane
Concen: 0.077 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 83 Resp: 2443

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 55.0 | 49.7 | 74.5 |
| 127 | 15.7 | 5.1 | 7.7# |



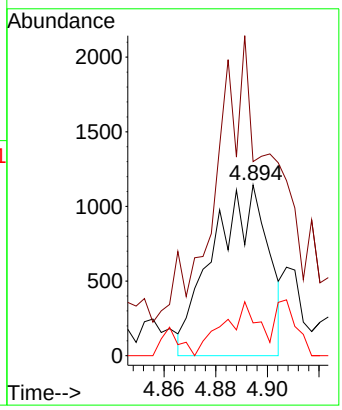


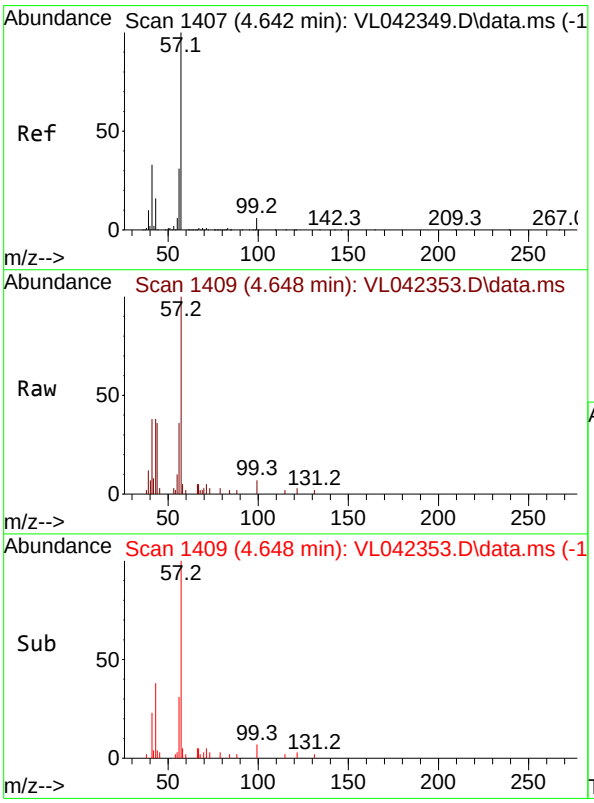

#43
Methyl Methacrylate
Concen: 0.099 ppbv
RT: 4.894 min Scan# 14
Delta R.T. 0.013 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion: 69 Resp: 1683

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 192.5 | 118.6 | 177.8# |
| 100 | 0.0 | 28.2 | 42.2# |

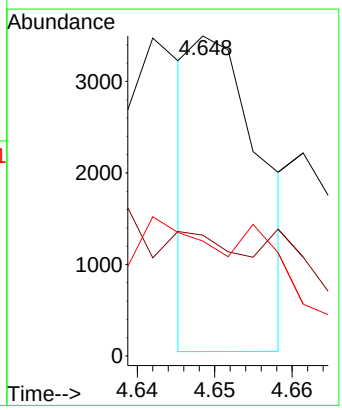


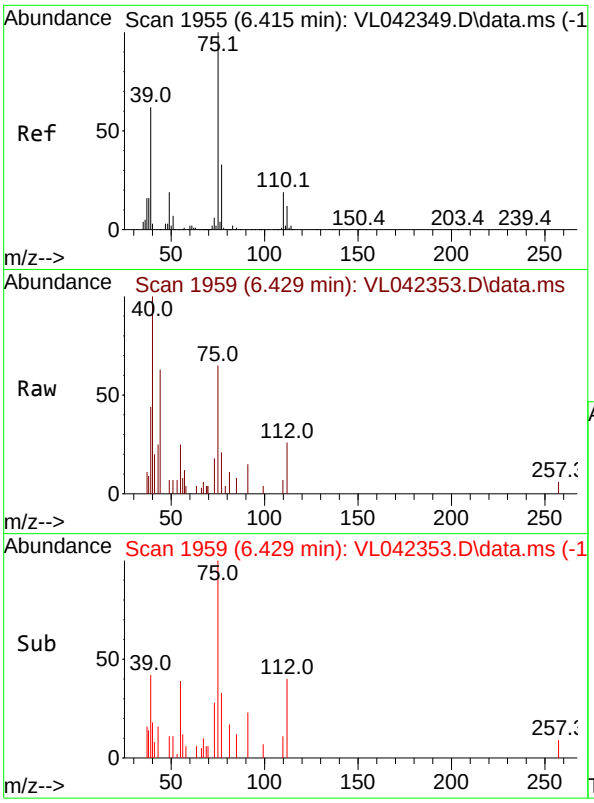




#44
2,2,4-Trimethylpentane
Concen: 0.032 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 57 Resp: 2115

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 0.0 | 27.2 | 40.8# |
| 56 | 0.0 | 25.7 | 38.5# |



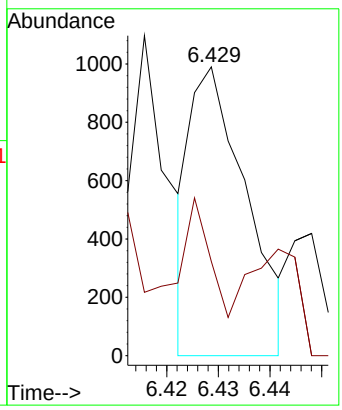


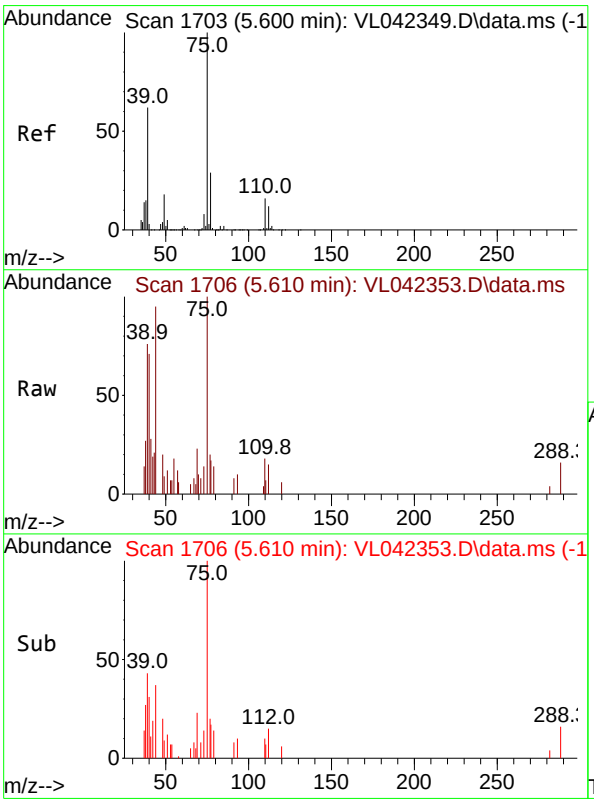

#45
t-1,3-Dichloropropene
Concen: 0.043 ppbv
RT: 6.429 min Scan# 1
Delta R.T. 0.013 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion: 75 Resp: 748

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.6 | 27.0 | 40.6 |

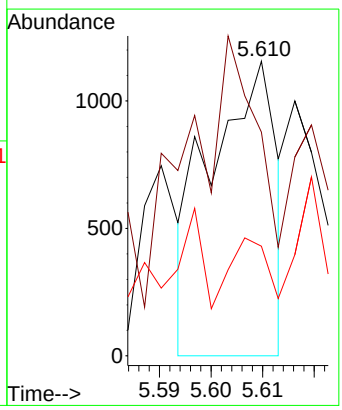


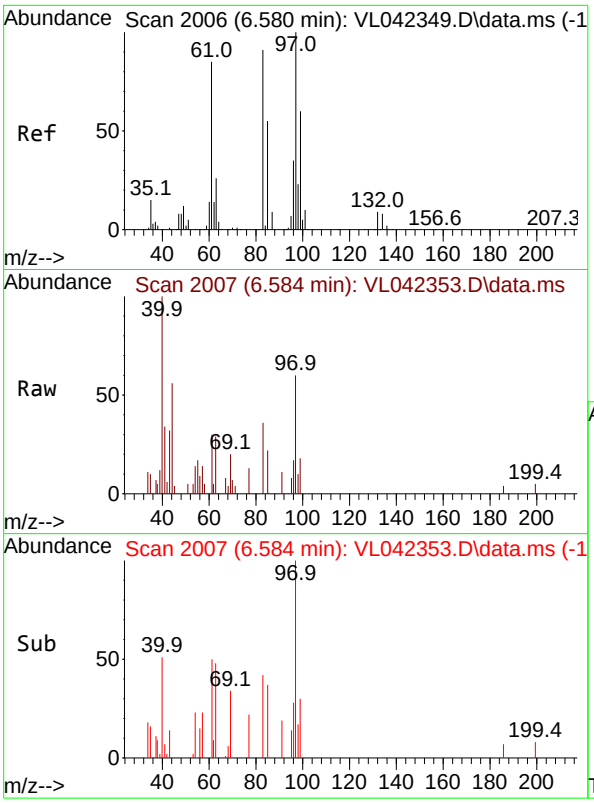




#46
cis-1,3-Dichloropropene
Concen: 0.048 ppbv
RT: 5.610 min Scan# 1706
Delta R.T. 0.010 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 75 Resp: 1032

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 39 | 71.3 | 50.0 | 75.0 |
| 77 | 32.3 | 23.0 | 34.6 |



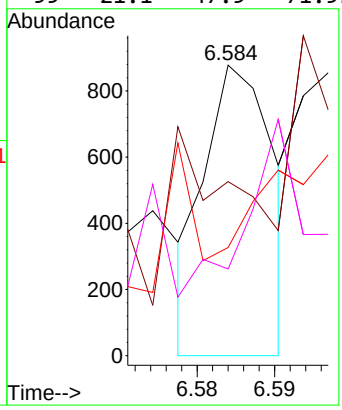


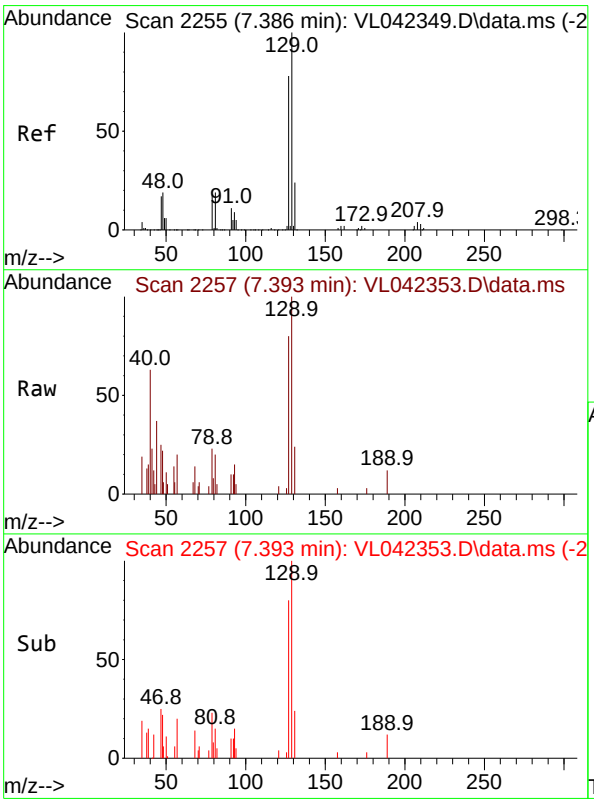

#47
1,1,2-Trichloroethane
Concen: 0.038 ppbv
RT: 6.584 min Scan# 2
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion: 97 Resp: 540

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 36.8 | 72.8 | 109.2# |
| 85 | 0.0 | 44.2 | 66.4# |
| 99 | 21.1 | 47.9 | 71.9# |

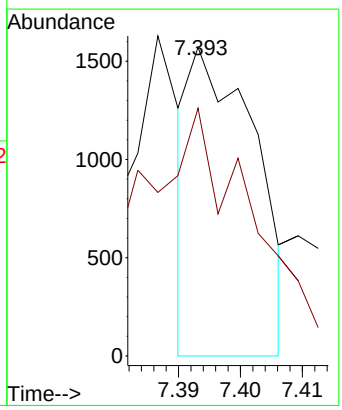


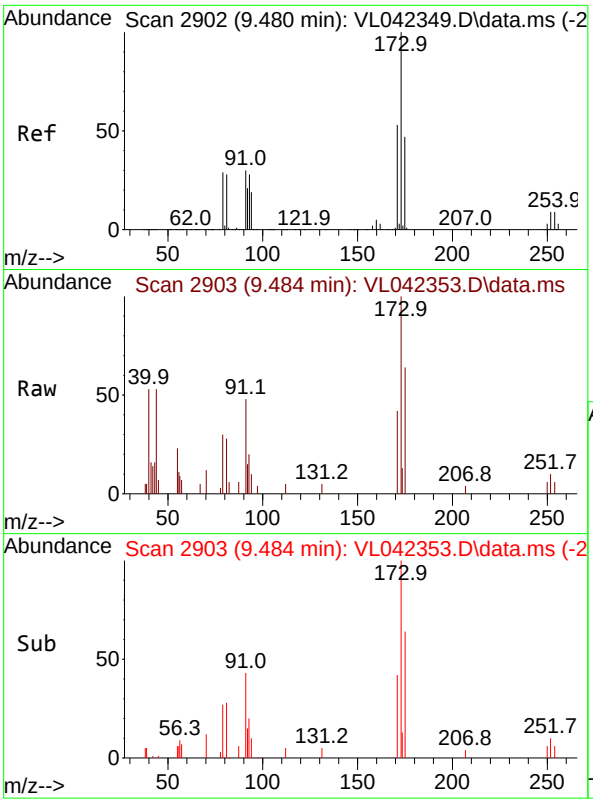




#48
Dibromochloromethane
Concen: 0.045 ppbv
RT: 7.393 min Scan# 2257
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:129 Resp: 1149

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 167.2 | 39.1 | 117.3# |



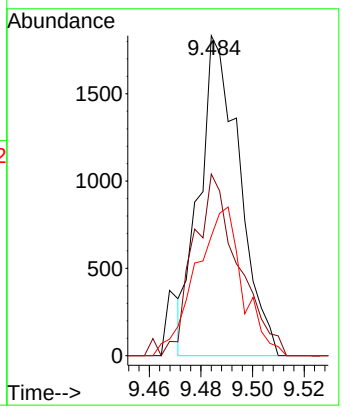


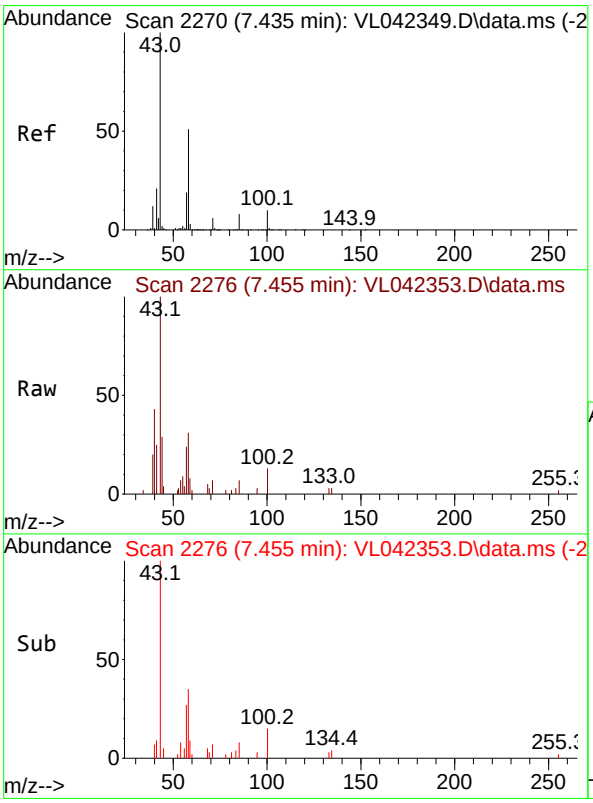

#49
Bromoform
Concen: 0.089 ppbv
RT: 9.484 min Scan# 2
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion:173 Resp: 1973

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 64.7 | 38.2 | 57.2# |
| 171 | 54.2 | 40.9 | 61.3 |

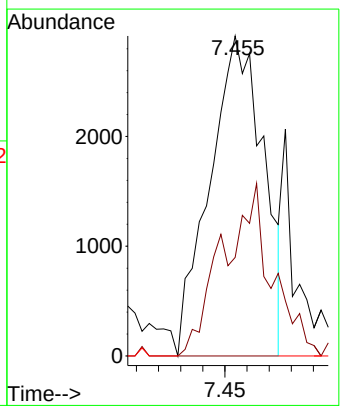


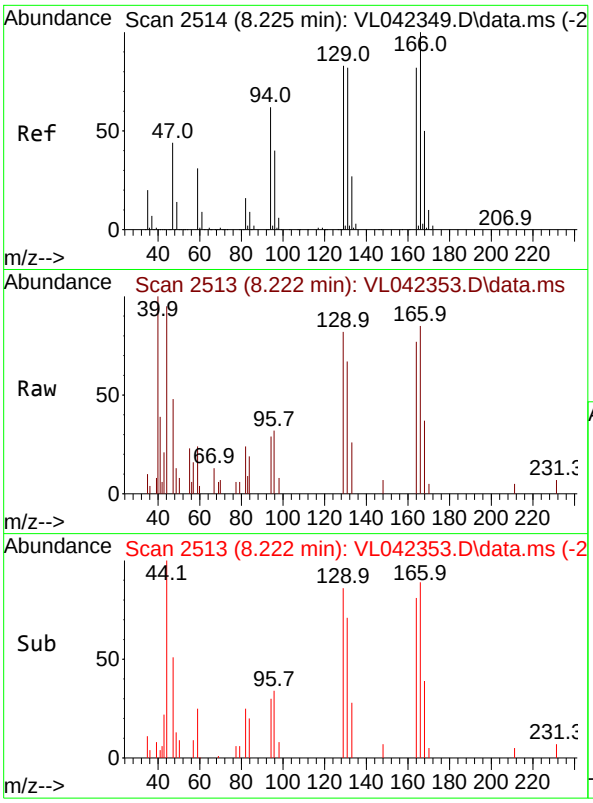




#51
2-Hexanone
Concen: 0.118 ppbv
RT: 7.455 min Scan# 2276
Delta R.T. 0.020 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 43 Resp: 4915

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 49.9 | 40.2 | 60.4 |
| 98 | 0.0 | 0.1 | 0.1# |



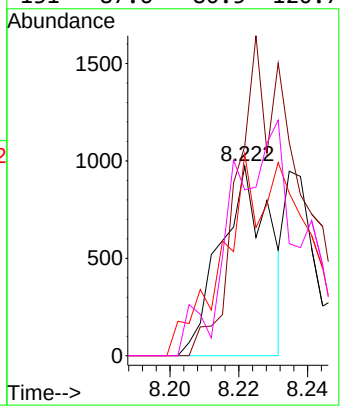


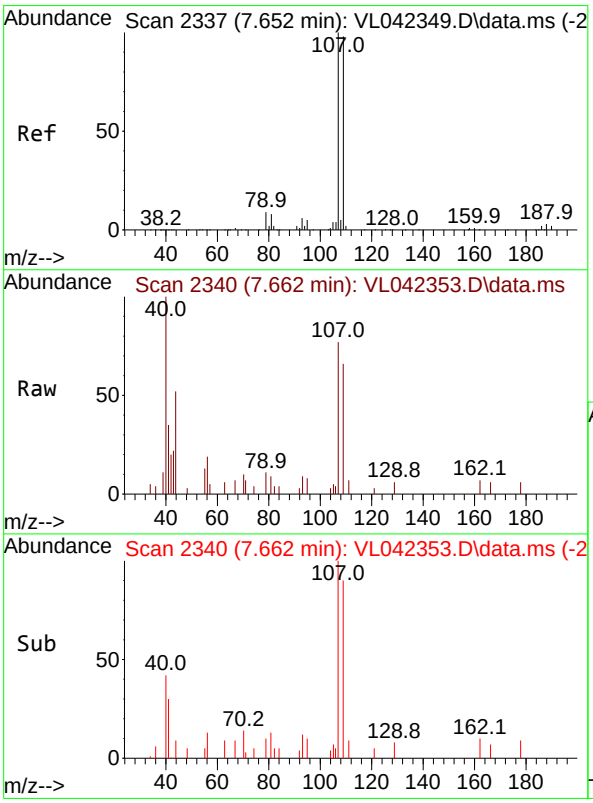

#52
Tetrachloroethene
Concen: 0.065 ppbv
RT: 8.222 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion:164 Resp: 957

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 110.6 | 98.2 | 147.2 |
| 129 | 88.3 | 81.8 | 122.8 |
| 131 | 87.6 | 80.5 | 120.7 |

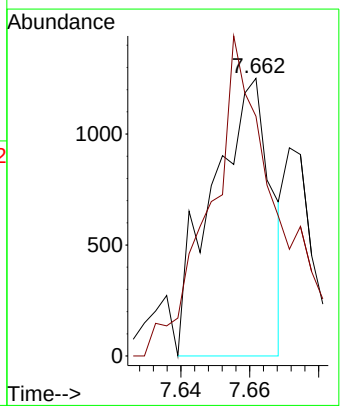


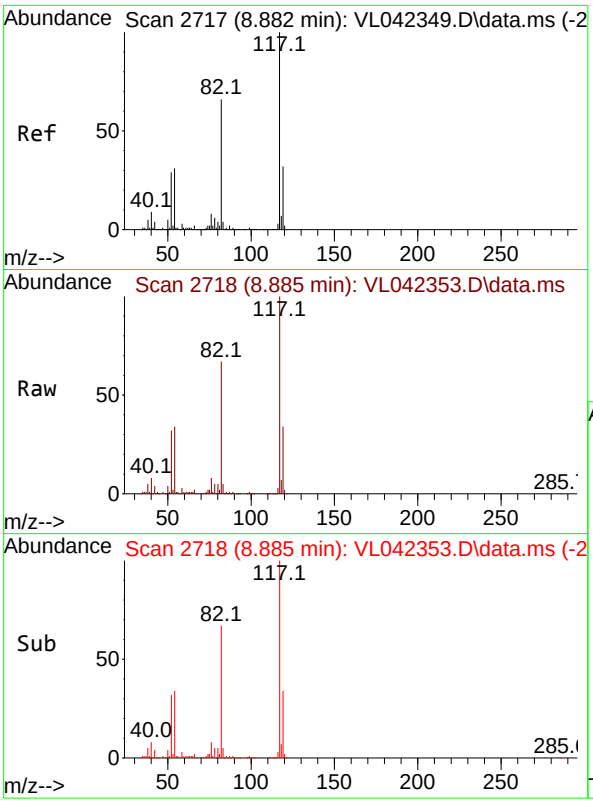




#54
1,2-Dibromoethane
Concen: 0.072 ppbv
RT: 7.662 min Scan# 2340
Delta R.T. 0.010 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:107 Resp: 1470

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 72.7 | 78.2 | 117.4# |



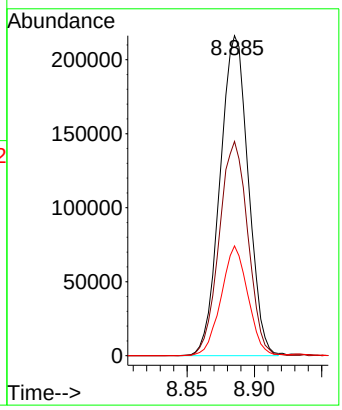


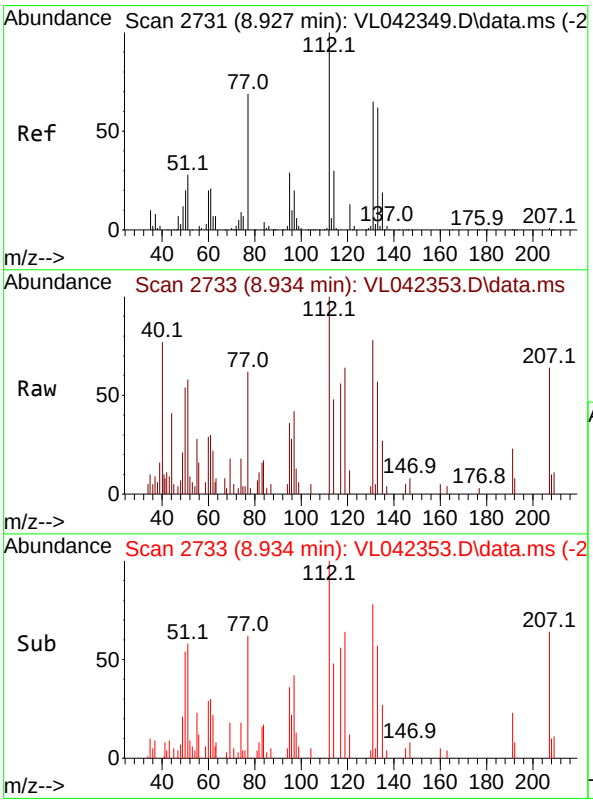

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion:117 Resp: 315004

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 68.1 | 57.8 | 86.6 |
| 119 | 33.0 | 25.2 | 37.8 |

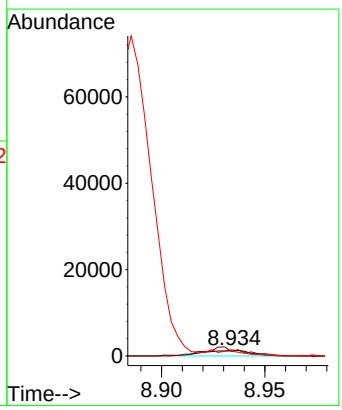


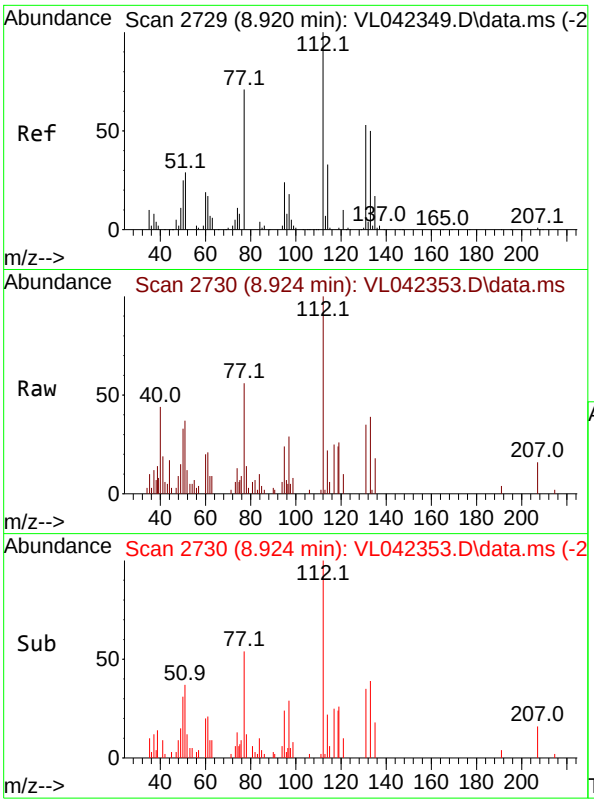




#56
1,1,1,2-Tetrachloroethane
Concen: 0.107 ppbv
RT: 8.934 min Scan# 2733
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:131 Resp: 2031

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 134.2 | 78.3 | 117.5# |
| 119 | 0.0 | 48.7 | 73.1# |



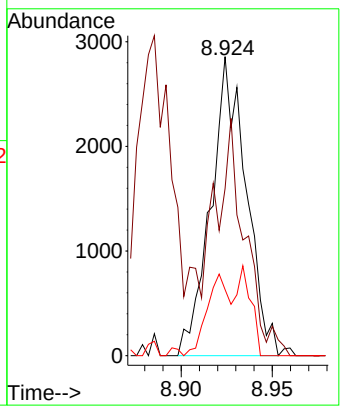


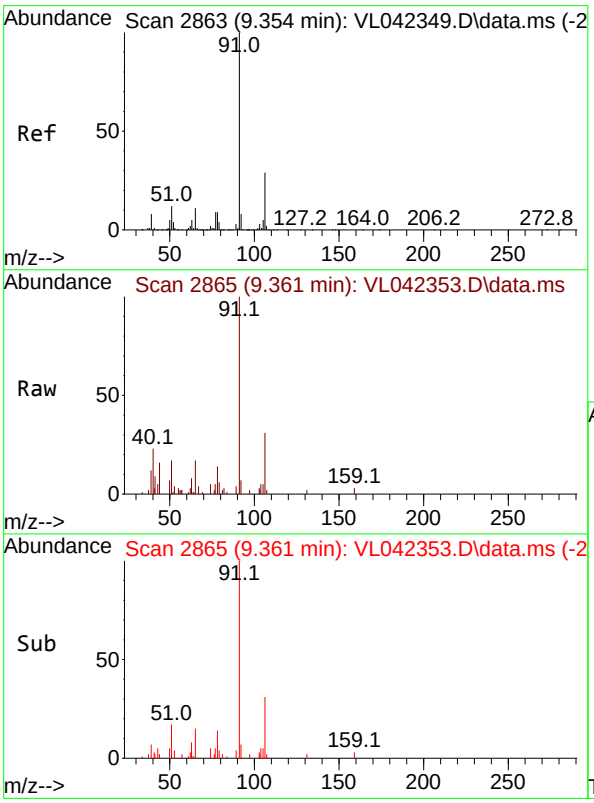

#57
Chlorobenzene
Concen: 0.117 ppbv
RT: 8.924 min Scan# 2
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion:112 Resp: 3842

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 50.6 | 57.8 | 86.6# |
| 114 | 22.1 | 29.3 | 35.9# |

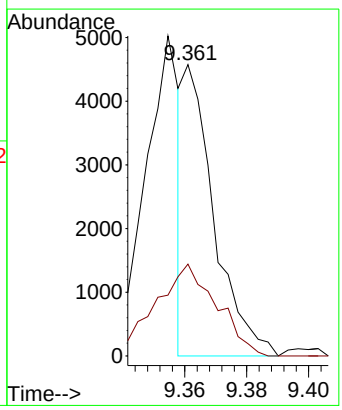


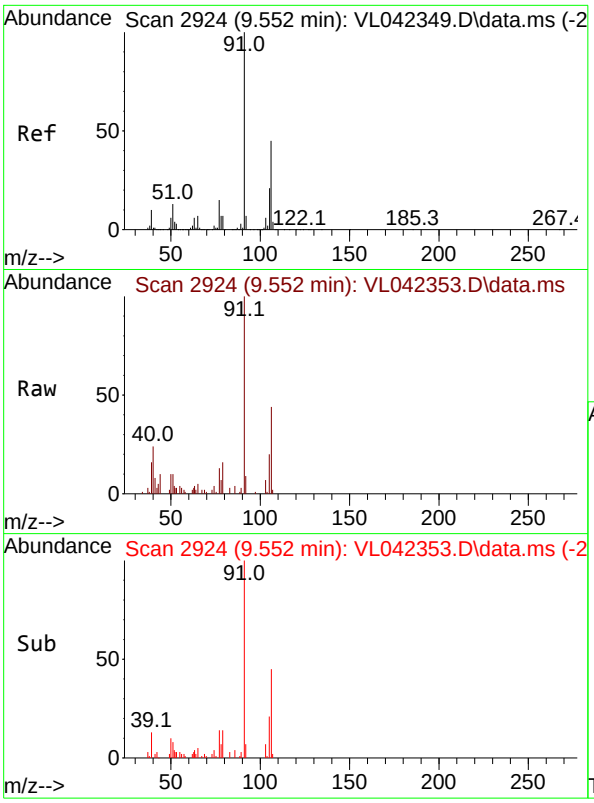




#58
Ethyl Benzene
Concen: 0.050 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 91 Resp: 3105

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.5 | 23.0 | 34.4 |



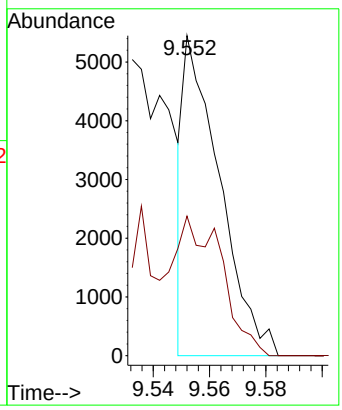


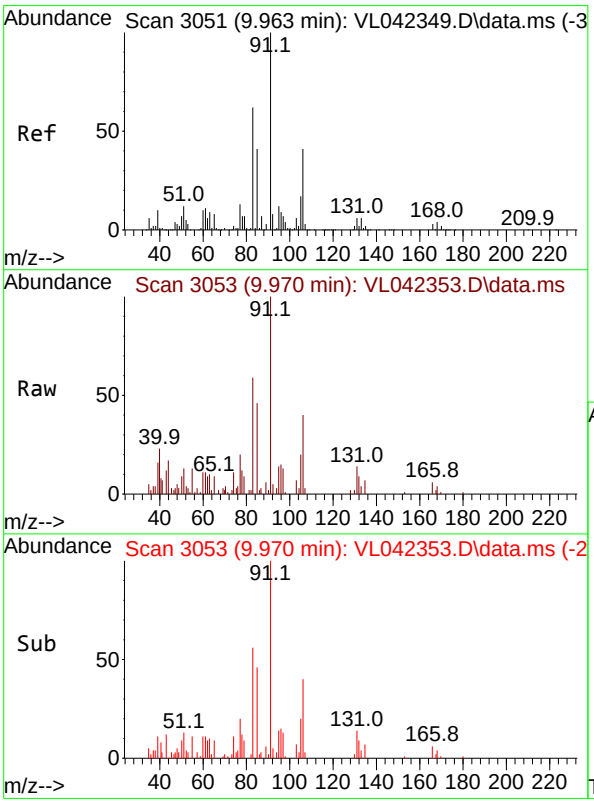

#59
m/p-Xylene
Concen: 0.096 ppbv
RT: 9.552 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion: 91 Resp: 4844

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 0.0 | 35.4 | 53.2# |

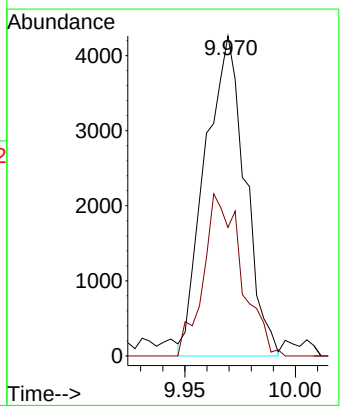


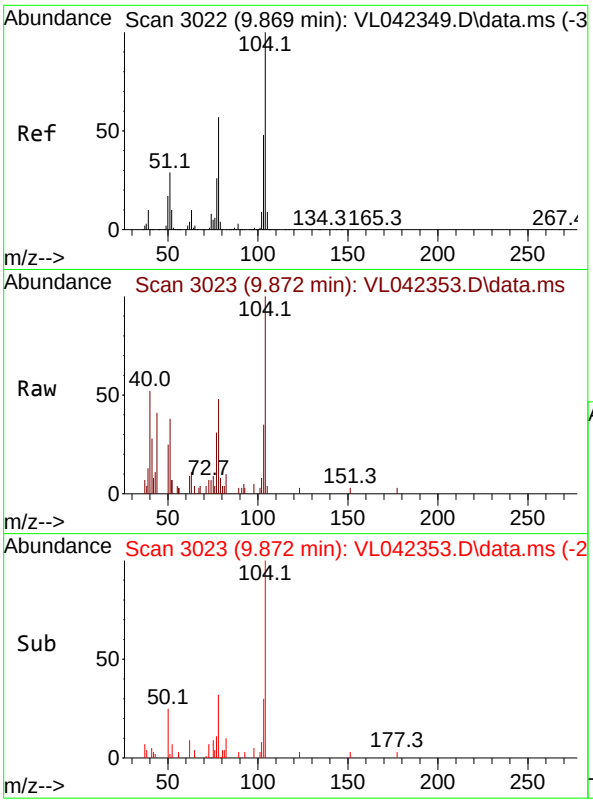




#60
o-Xylene
Concen: 0.106 ppbv
RT: 9.970 min Scan# 3053
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 91 Resp: 5359

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 48.3 | 21.1 | 63.4 |



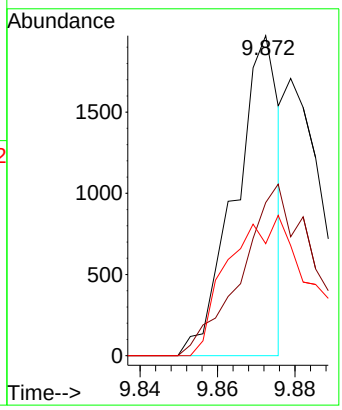


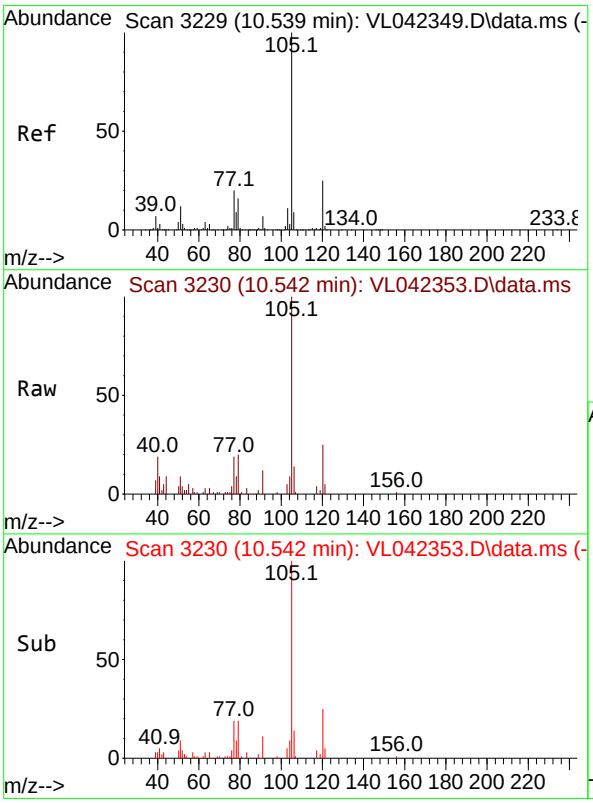

#61
Styrene
Concen: 0.064 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion:104 Resp: 1549

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 0.0 | 44.6 | 66.8# |
| 103 | 0.0 | 37.4 | 56.0# |

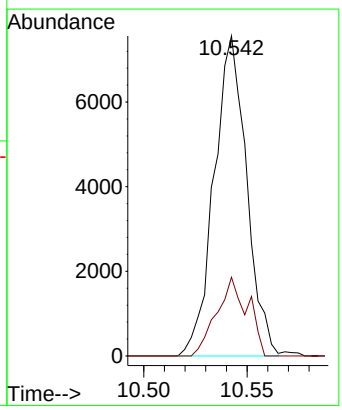


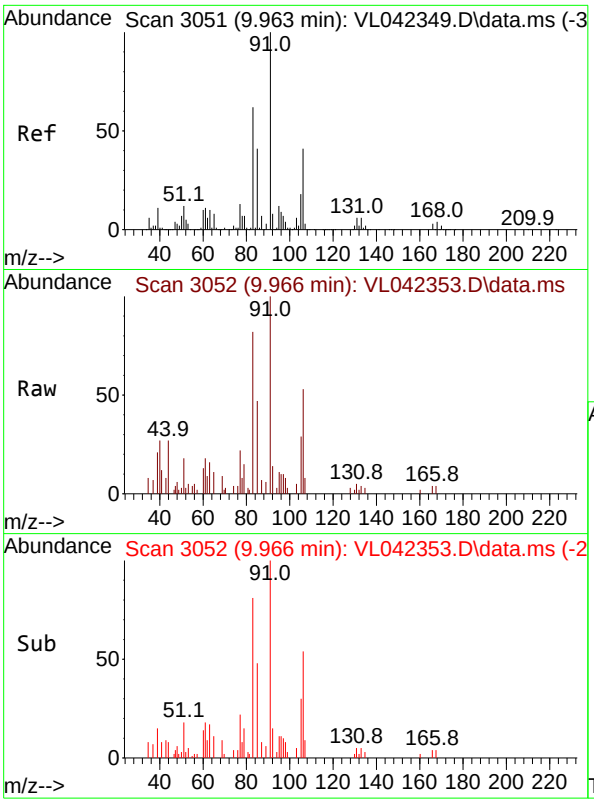




#62
Isopropylbenzene
Concen: 0.111 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:105 Resp: 8285

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 23.5 | 19.8 | 29.8 |



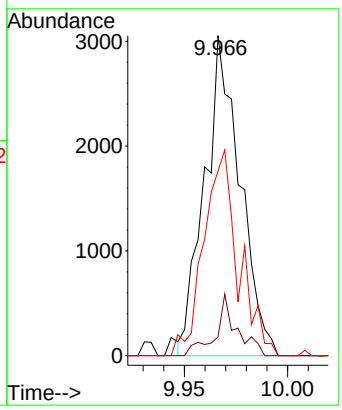


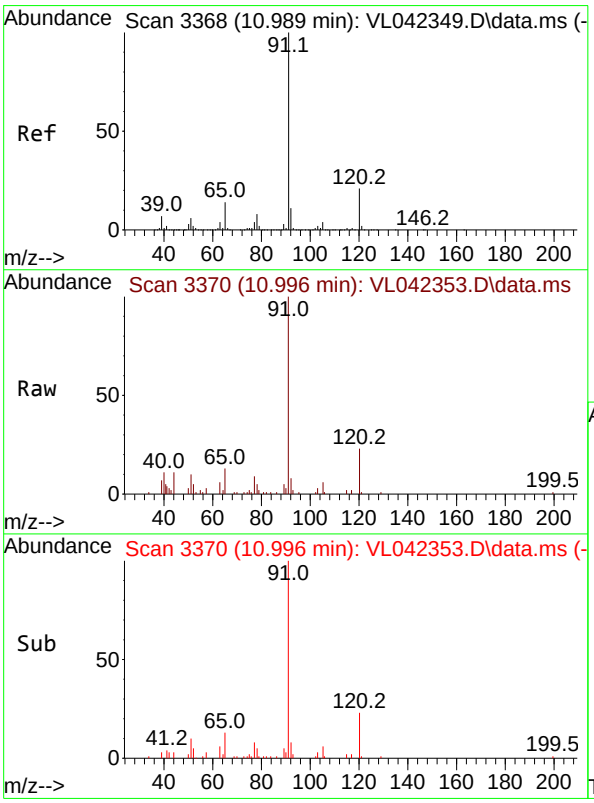

#63
1,1,2,2-Tetrachloroethane
Concen: 0.111 ppbv
RT: 9.966 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion: 83 Resp: 3646

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 11.4 | 4.5 | 13.7 |
| 85 | 62.7 | 32.4 | 97.0 |

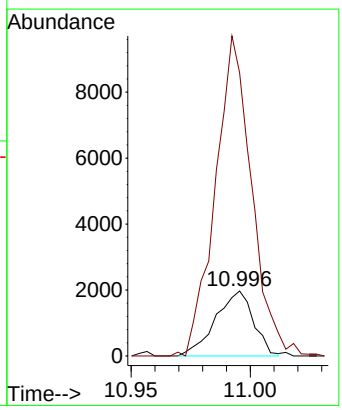


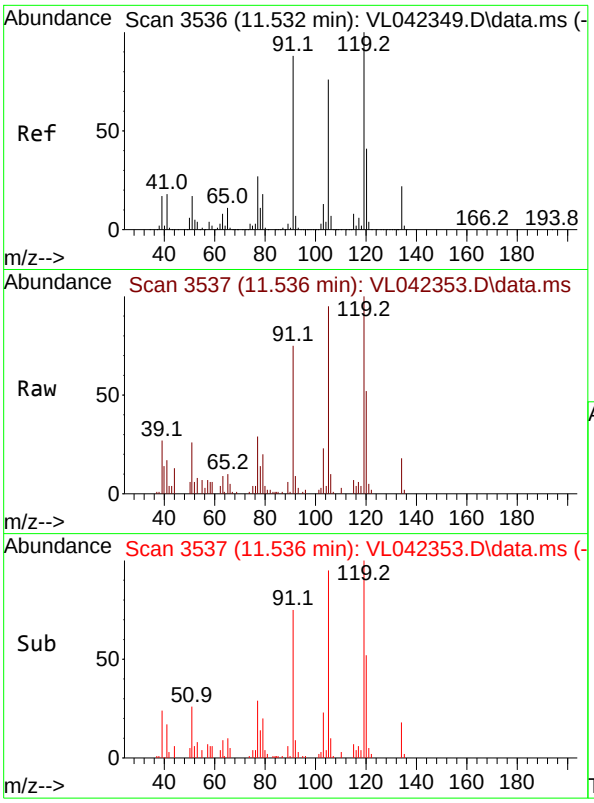




#64
n-propylbenzene
Concen: 0.117 ppbv
RT: 10.996 min Scan# 3370
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:120 Resp: 2186

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 471.4 | 392.4 | 588.6 |



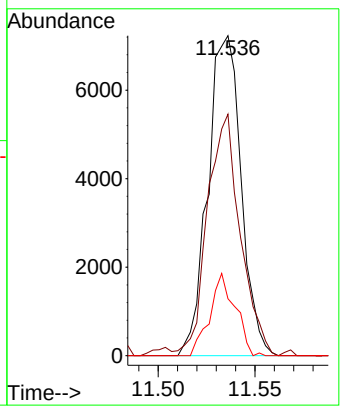


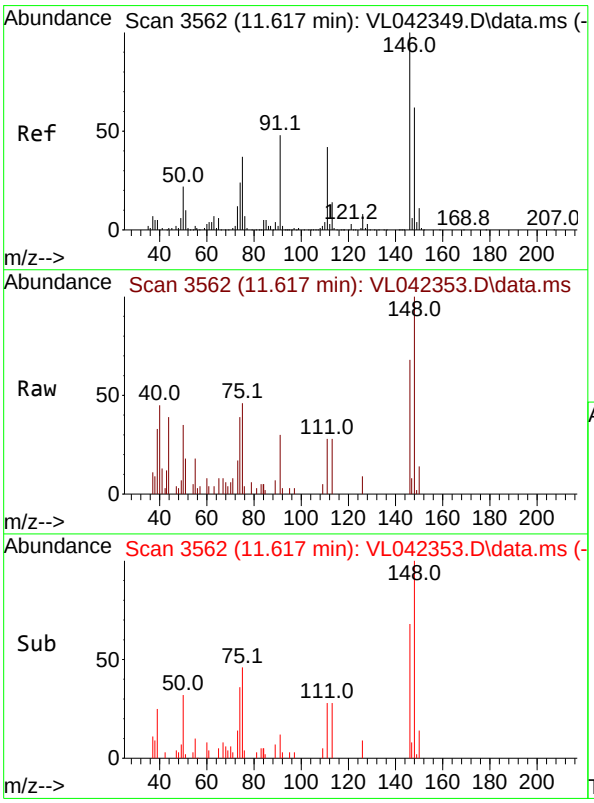

#65
tert-Butylbenzene
Concen: 0.127 ppbv
RT: 11.536 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion:119 Resp: 8656

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 77.2 | 74.6 | 111.8 |
| 134 | 19.6 | 18.8 | 28.2 |

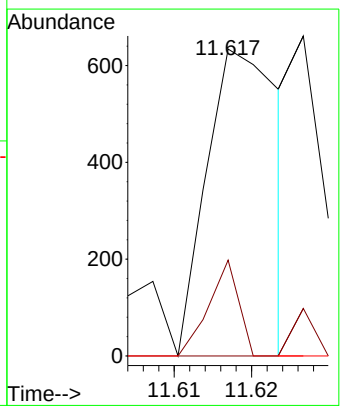


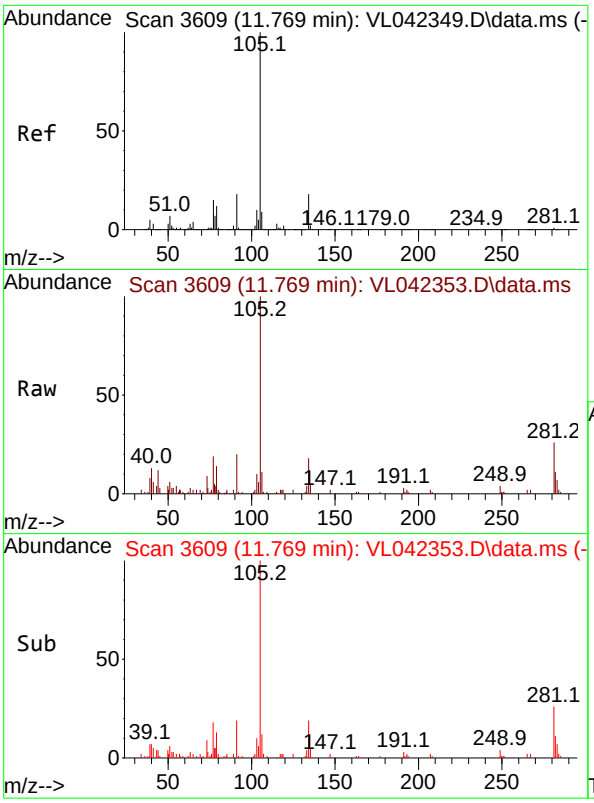




#66
Benzyl Chloride
Concen: 0.055 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 91 Resp: 414

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 23.2 | 11.8 | 17.6# |
| 128 | 0.0 | 4.5 | 6.7# |



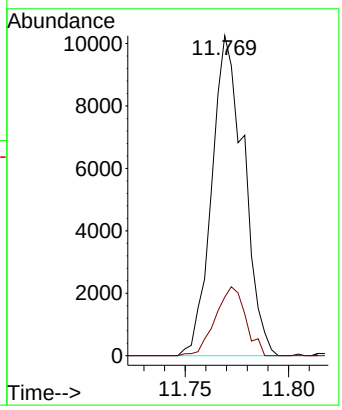


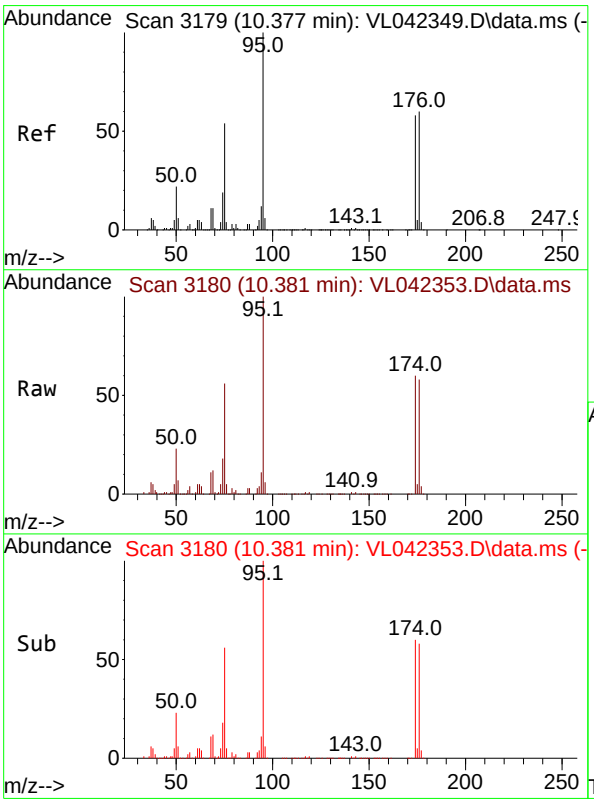

#67
sec-Butylbenzene
Concen: 0.117 ppbv
RT: 11.769 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion:105 Resp: 11126

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 20.2 | 14.6 | 21.8 |

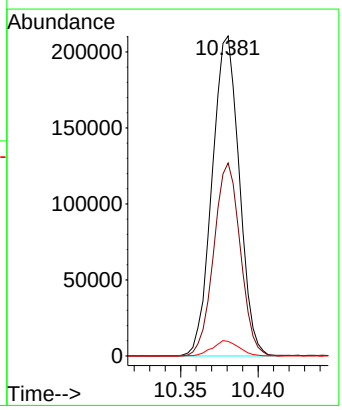


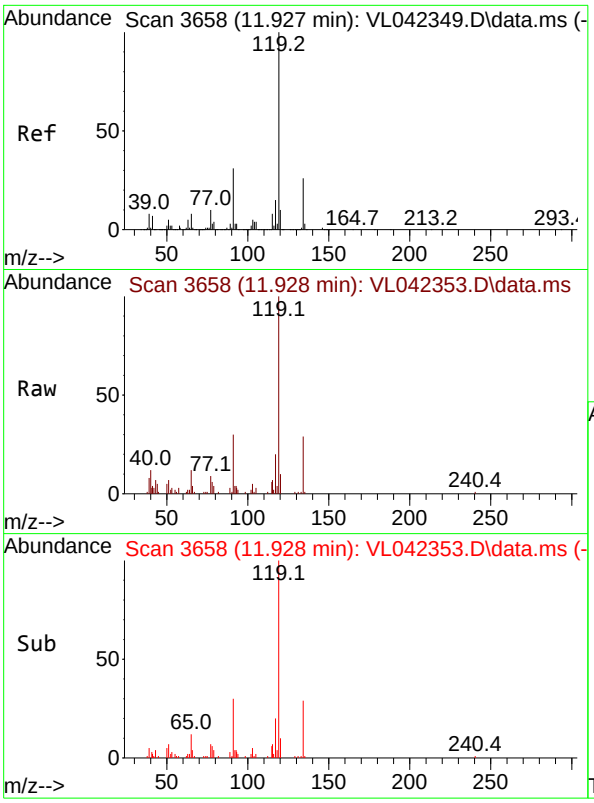




#68
1-Bromo-4-Fluorobenzene
Concen: 9.906 ppbv
RT: 10.381 min Scan# 3180
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 95 Resp: 256417

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 59.3 | 48.5 | 72.7 |
| 175 | 4.7 | 3.7 | 5.5 |



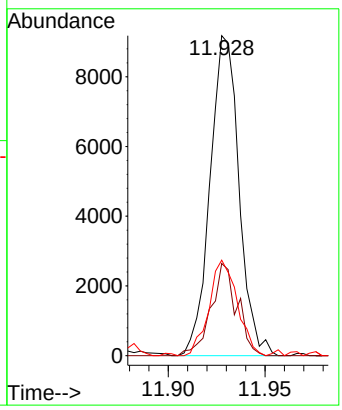


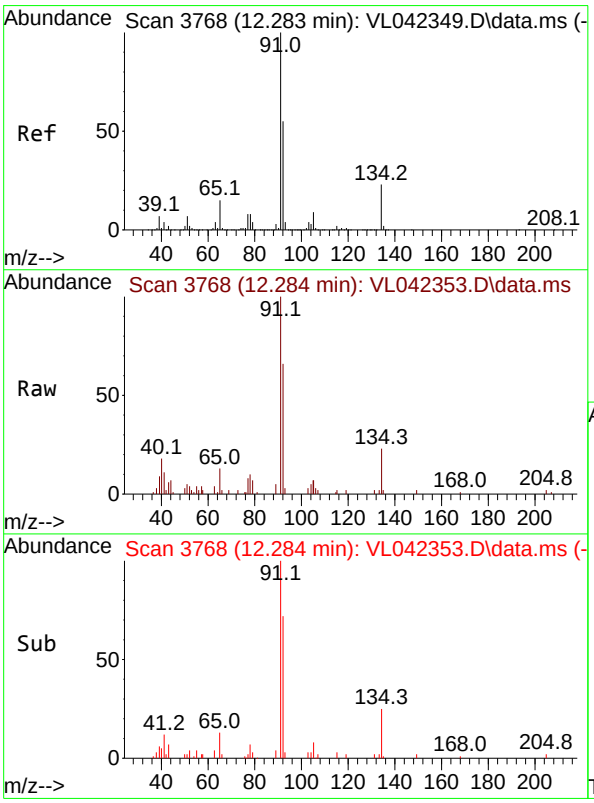

#69
p-Isopropyltoluene
Concen: 0.115 ppbv
RT: 11.928 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion:119 Resp: 9534

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.0 | 20.0 | 30.0 |
| 91 | 31.6 | 24.4 | 36.6 |

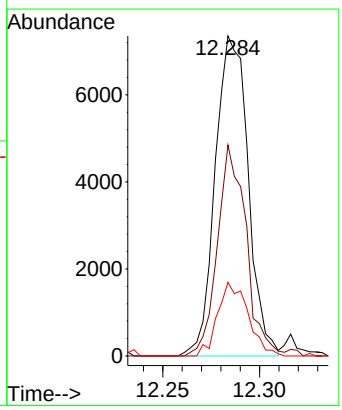


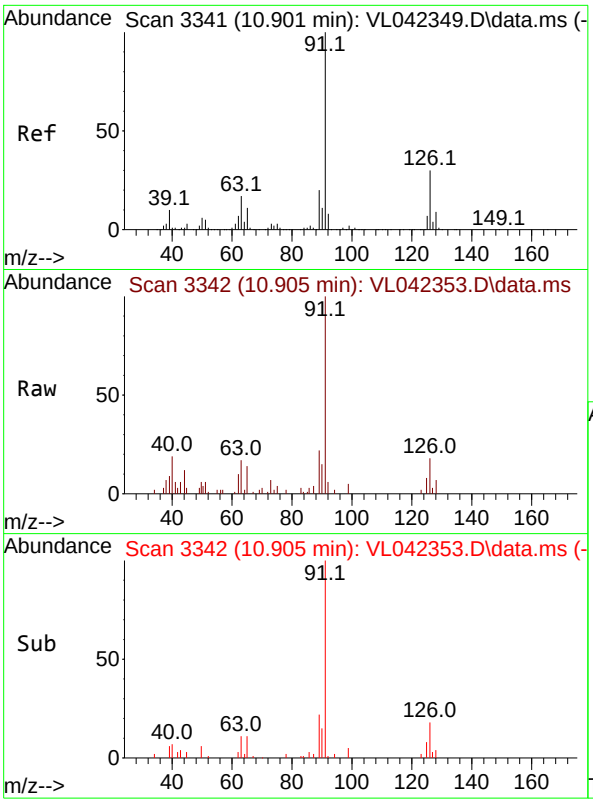




#70
n-Butylbenzene
Concen: 0.101 ppbv
RT: 12.284 min Scan# 3768
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 91 Resp: 8684

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 58.0 | 44.2 | 66.4 |
| 134 | 21.3 | 18.2 | 27.4 |



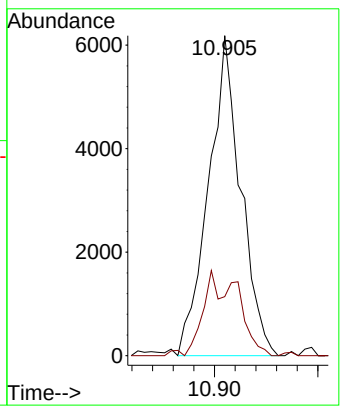


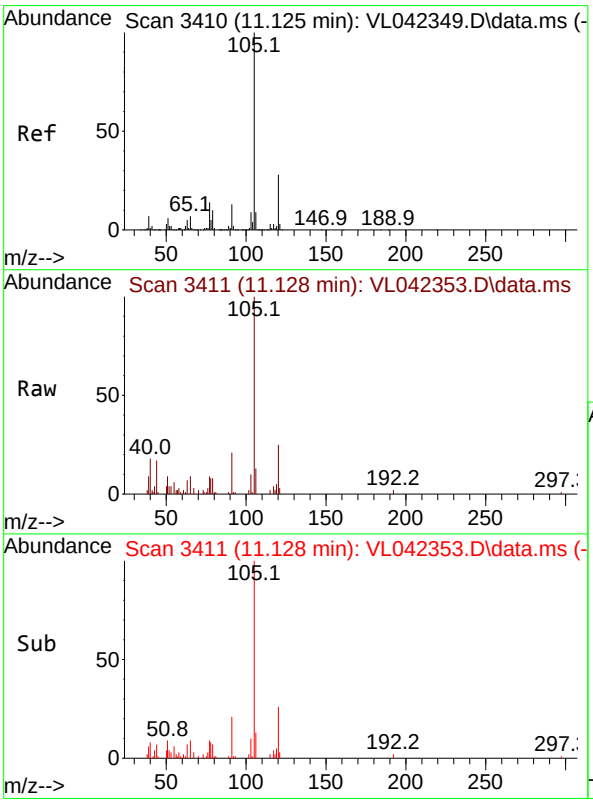

#71
2-Chlorotoluene
Concen: 0.115 ppbv
RT: 10.905 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion: 91 Resp: 6703

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 29.2 | 11.4 | 45.4 |

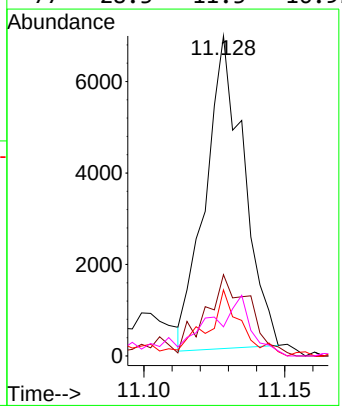


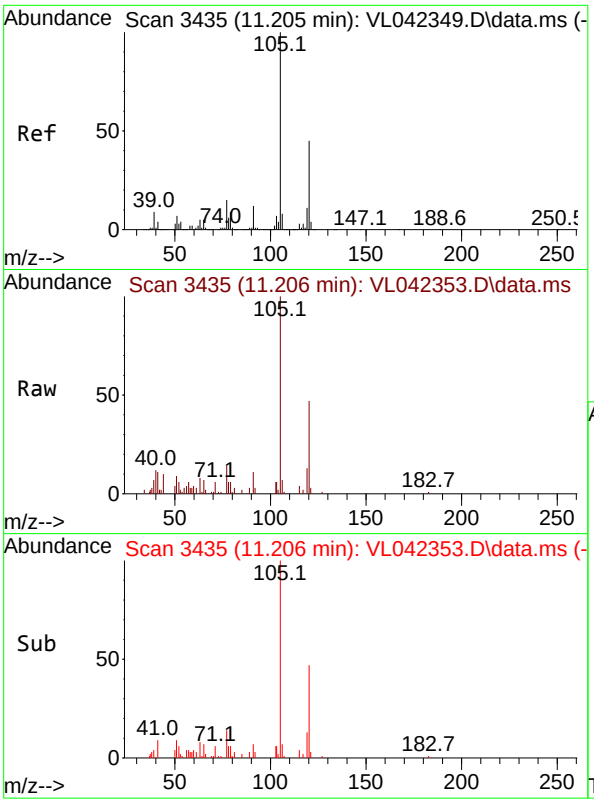




#72
4-Ethyltoluene
Concen: 0.104 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:105 Resp: 6463

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 34.1 | 23.2 | 34.8 |
| 91 | 24.5 | 10.4 | 15.6# |
| 77 | 28.3 | 11.3 | 16.9# |



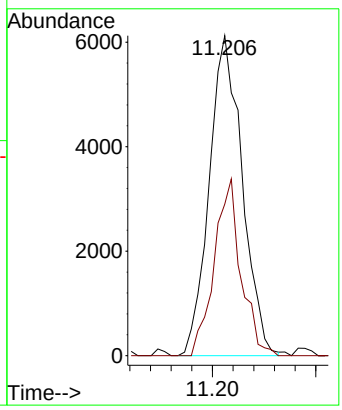


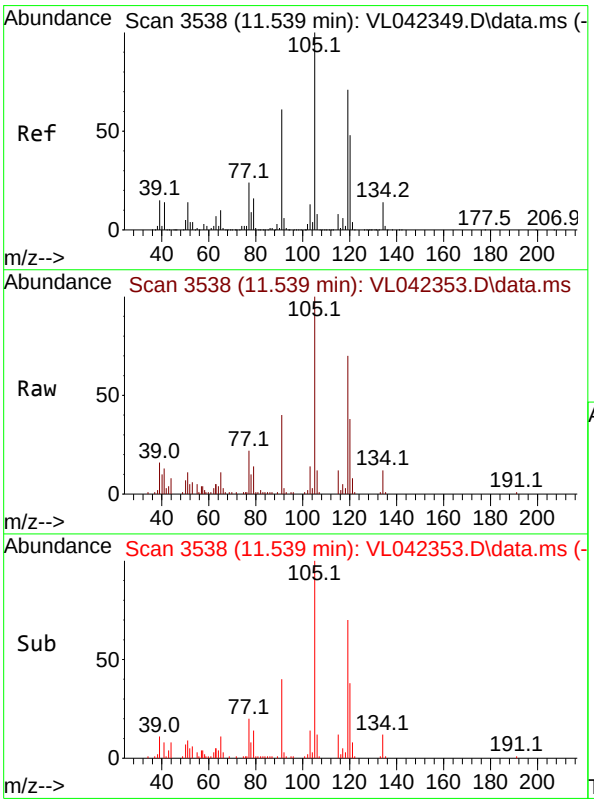

#73
1,3,5-Trimethylbenzene
Concen: 0.124 ppbv
RT: 11.206 min Scan# 34
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion:105 Resp: 6797

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.4 | 35.6 | 53.4 |

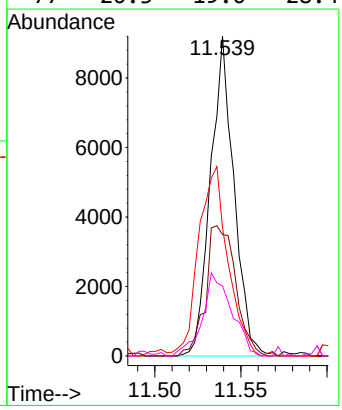


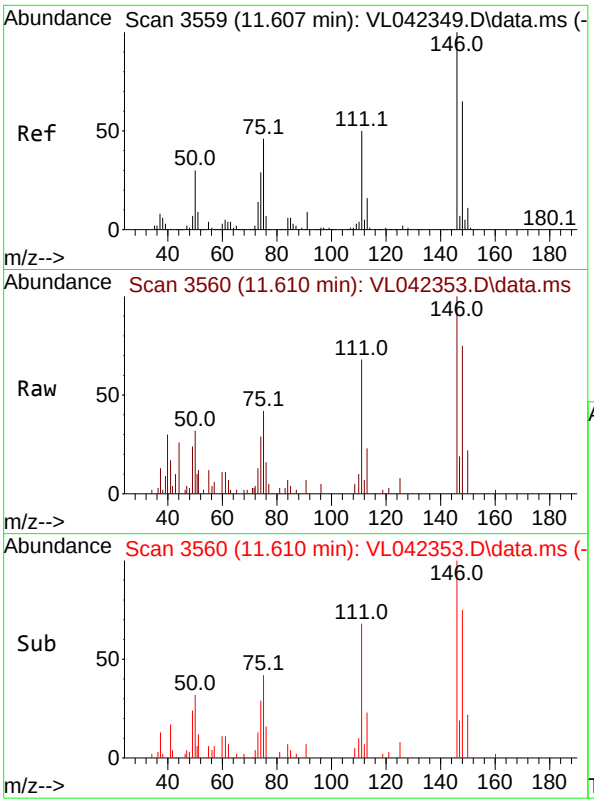




#74
1,2,4-Trimethylbenzene
Concen: 0.137 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:105 Resp: 8745

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 37.9 | 38.1 | 57.1# |
| 91 | 40.1 | 48.8 | 73.2# |
| 77 | 20.3 | 19.0 | 28.4 |



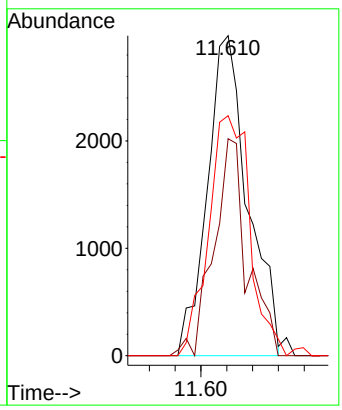


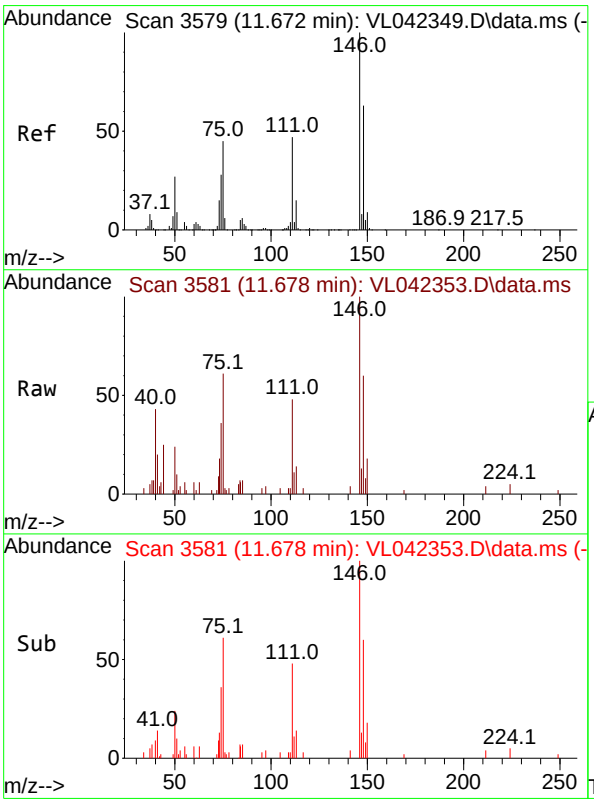

#75
1,3-Dichlorobenzene
Concen: 0.098 ppbv
RT: 11.610 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion:146 Resp: 3258

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 55.9 | 24.3 | 72.8 |
| 148 | 77.0 | 31.6 | 94.8 |

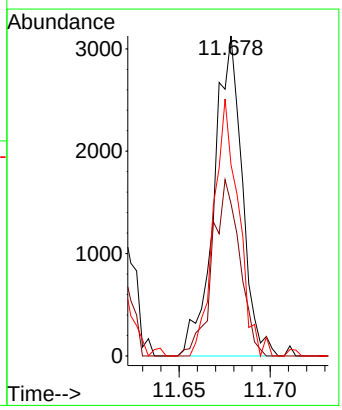


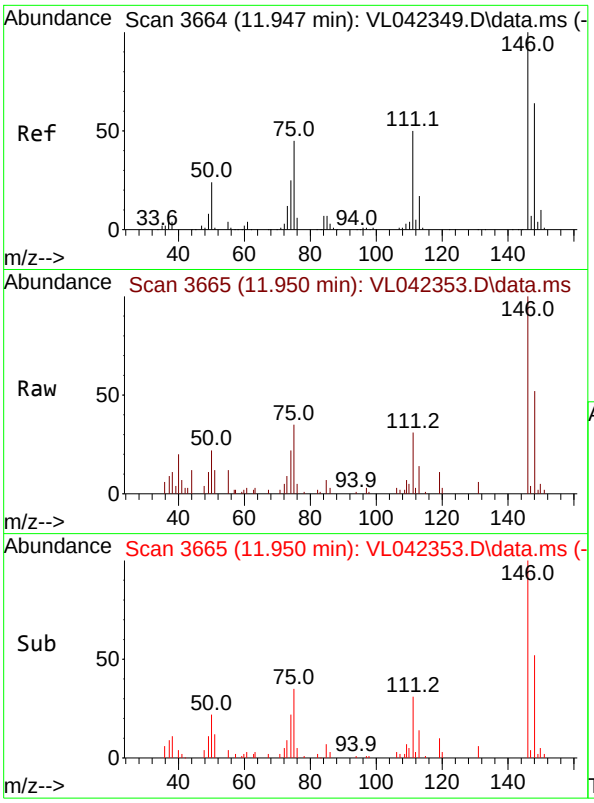




#76
1,4-Dichlorobenzene
Concen: 0.101 ppbv
RT: 11.678 min Scan# 3581
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:146 Resp: 3366

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 53.5 | 24.2 | 72.6 |
| 148 | 71.3 | 32.1 | 96.5 |



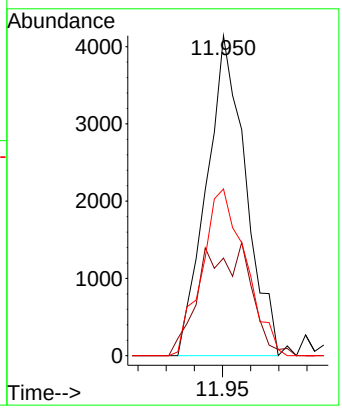


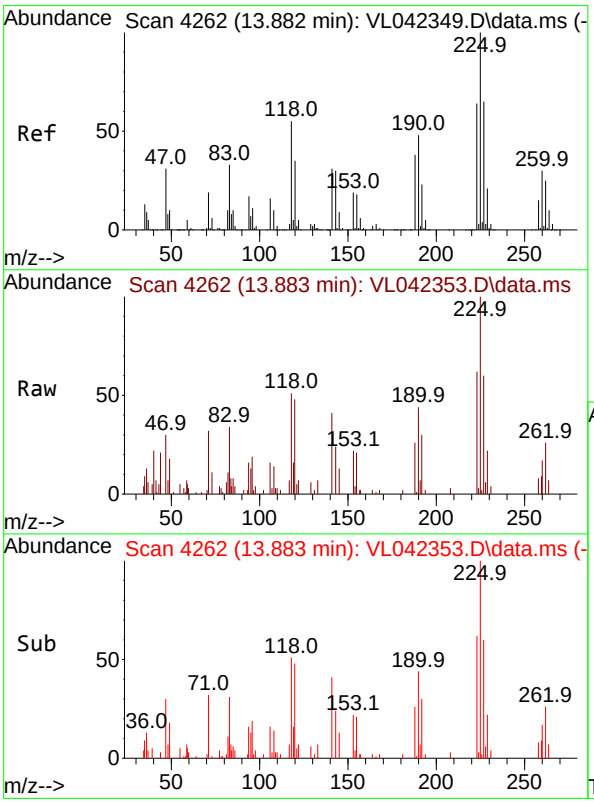

#77
1,2-Dichlorobenzene
Concen: 0.124 ppbv
RT: 11.950 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion:146 Resp: 3996

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 45.1 | 25.3 | 75.9 |
| 148 | 58.1 | 31.5 | 94.5 |

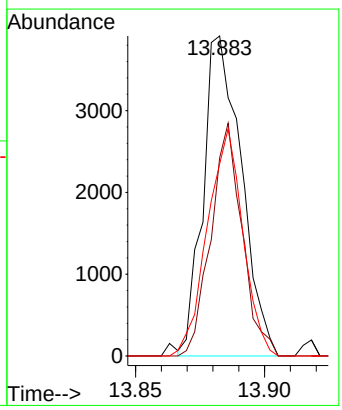


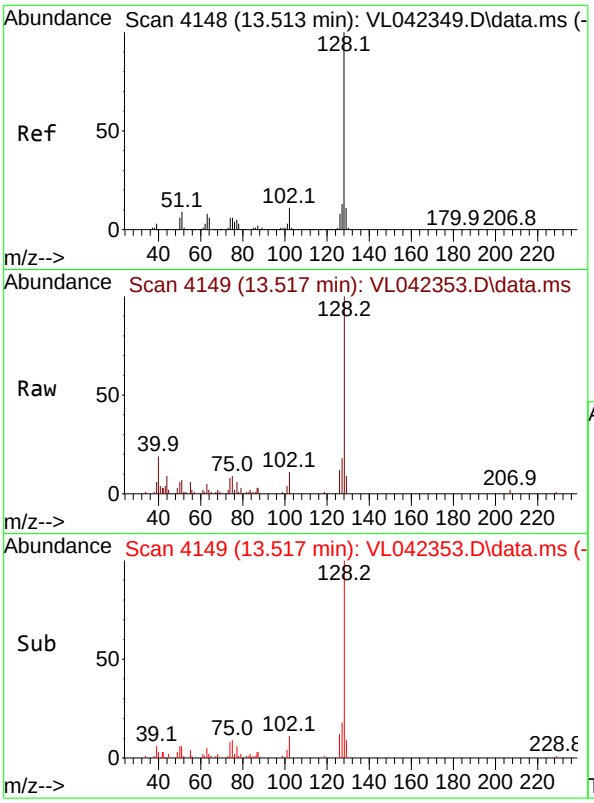




#78
Hexachloro-1,3-Butadiene
Concen: 0.124 ppbv
RT: 13.883 min Scan# 4262
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:225 Resp: 4030

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 59.5 | 50.3 | 75.5 |
| 227 | 65.9 | 51.5 | 77.3 |



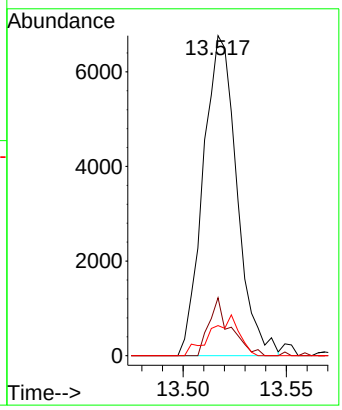


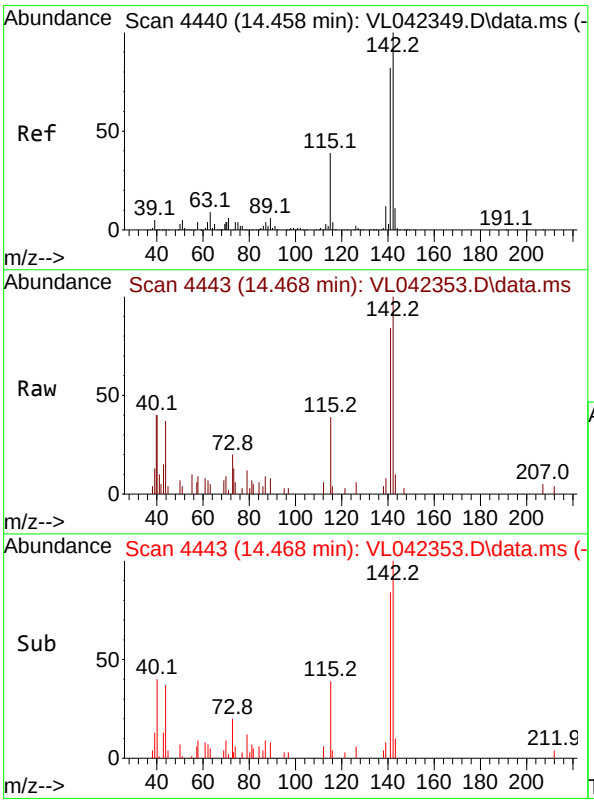

#79
Naphthalene
Concen: 0.100 ppbv
RT: 13.517 min Scan# 41
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion:128 Resp: 7664

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 18.1 | 10.6 | 15.8# |
| 129 | 9.4 | 8.6 | 12.8 |

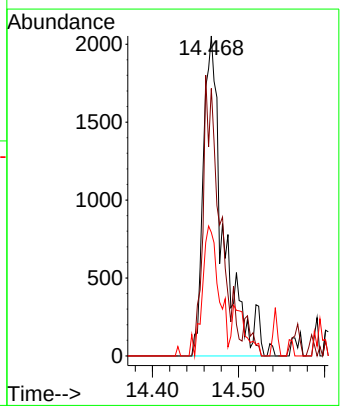


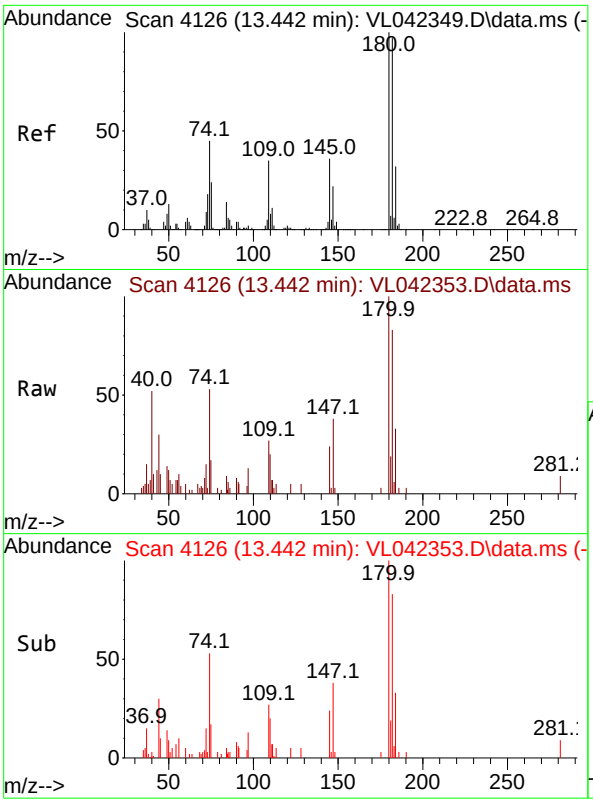




#80
Naphthalene,2-methyl-
Concen: 0.077 ppbv
RT: 14.468 min Scan# 4443
Delta R.T. 0.010 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:142 Resp: 3339

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 78.4 | 66.8 | 100.2 |
| 115 | 33.1 | 33.4 | 50.2# |



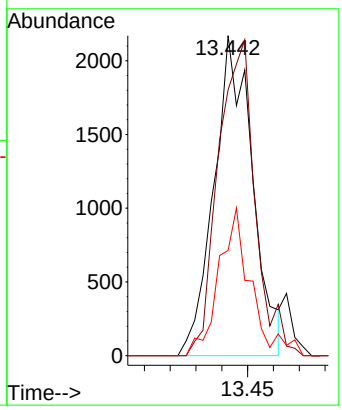



#81
1,2,4-Trichlorobenzene
Concen: 0.069 ppbv
RT: 13.442 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.1

Tgt Ion:180 Resp: 2245

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.3 | 76.8 | 115.2 |
| 184 | 38.4 | 24.6 | 36.8# |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042354.D
Acq On : 17 Apr 2025 12:22
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Quant Time: Apr 18 02:07:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.790 | 49 | 120042 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.965 | 114 | 349264 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.885 | 117 | 312999 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.380 | 95 | 256230 | 9.962 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 99.600% | | | |
| Target Compounds | | | | | | Qvalue |
| 3) Chlorodifluoromethane | 1.479 | 51 | 1404 | 0.070 | ppbv # | 78 |
| 4) Chloromethane | 1.534 | 50 | 773 | 0.092 | ppbv # | 72 |
| 5) Vinyl Chloride | 1.583 | 62 | 361 | 0.040 | ppbv # | 76 |
| 6) Bromomethane | 1.667 | 94 | 232 | 0.059 | ppbv # | 8 |
| 7) Chloroethane | 1.699 | 64 | 237 | 0.072 | ppbv # | 46 |
| 8) Dichlorotetrafluoroethane | 1.554 | 85 | 823 | 0.045 | ppbv | 95 |
| 9) Propene | 1.486 | 41 | 508 | 0.055 | ppbv # | 15 |
| 10) Heptane | 4.981 | 43 | 435 | 0.018 | ppbv # | 1 |
| 12) 1,1,2-Trichlorotrifluo... | 2.143 | 101 | 793 | 0.048 | ppbv # | 73 |
| 13) Ethanol | 1.434 | 45 | 60931 | 81.065 | ppbv | 74 |
| 14) Bromoethene | 1.787 | 108 | 207 | 0.033 | ppbv # | 1 |
| 15) Acetone | 1.839 | 43 | 3597 | 0.183 | ppbv # | 89 |
| 16) 1,3-Butadiene | 1.609 | 39 | 573 | 0.062 | ppbv # | 1 |
| 17) tert-Butyl alcohol | 2.049 | 59 | 991 | 0.041 | ppbv # | 1 |
| 18) 1,1-Dichloroethene | 2.036 | 96 | 455 | 0.057 | ppbv # | 43 |
| 19) Isopropyl Alcohol | 1.434 | 45 | 60931 | 5.582 | ppbv # | 33 |
| 20) Methylene Chloride | 2.065 | 84 | 2904 | 0.377 | ppbv | 86 |
| 21) Allyl Chloride | 2.097 | 41 | 1132 | 0.083 | ppbv # | 1 |
| 22) trans-1,2-Dichloroethene | 2.340 | 96 | 287 | 0.033 | ppbv # | 32 |
| 23) Vinyl Acetate | 2.466 | 43 | 490 | 0.062 | ppbv # | 86 |
| 24) 1,1-Dichloroethane | 2.415 | 63 | 1030 | 0.062 | ppbv # | 74 |
| 25) Ethyl Acetate | 2.835 | 43 | 2744 | 0.057 | ppbv # | 75 |
| 26) Hexane | 2.832 | 57 | 2398 | 0.122 | ppbv # | 65 |
| 27) Carbon Disulfide | 2.152 | 76 | 984 | 0.047 | ppbv # | 1 |
| 28) Methyl tert-Butyl Ether | 2.447 | 73 | 426 | 0.033 | ppbv # | 48 |
| 30) Cyclohexane | 3.855 | 84 | 311 | 0.020 | ppbv # | 1 |
| 31) cis-1,2-Dichloroethene | 2.725 | 61 | 831 | 0.045 | ppbv # | 86 |
| 32) 1,1,1-Trichloroethane | 3.373 | 97 | 809 | 0.027 | ppbv # | 52 |
| 34) 2-Butanone | 2.564 | 43 | 510 | 0.018 | ppbv # | 53 |
| 35) Carbon Tetrachloride | 3.768 | 117 | 862 | 0.027 | ppbv # | 45 |
| 36) Benzene | 3.667 | 78 | 1629 | 0.043 | ppbv # | 75 |
| 38) Trichloroethene | 4.557 | 130 | 271 | 0.016 | ppbv # | 27 |
| 39) 1,2-Dichloropropane | 3.965 | 63 | 90827 | 6.465 | ppbv # | 22 |
| 40) 1,4-Dioxane | 4.625 | 88 | 139 | 0.018 | ppbv # | 1 |
| 42) Bromodichloromethane | 4.496 | 83 | 1093 | 0.035 | ppbv # | 82 |
| 43) Methyl Methacrylate | 4.891 | 69 | 354 | 0.021 | ppbv # | 3 |
| 44) 2,2,4-Trimethylpentane | 4.641 | 57 | 1377 | 0.021 | ppbv # | 1 |
| 45) t-1,3-Dichloropropene | 6.415 | 75 | 183 | 0.011 | ppbv | 100 |
| 46) cis-1,3-Dichloropropene | 5.606 | 75 | 546 | 0.026 | ppbv # | 37 |
| 47) 1,1,2-Trichloroethane | 6.590 | 97 | 225 | 0.016 | ppbv # | 40 |
| 48) Dibromochloromethane | 7.399 | 129 | 258 | 0.010 | ppbv # | 10 |
| 49) Bromoform | 9.493 | 173 | 285 | 0.013 | ppbv # | 1 |
| 53) Toluene | 6.943 | 91 | 464 | 0.010 | ppbv # | 1 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042354.D
Acq On : 17 Apr 2025 12:22
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Quant Time: Apr 18 02:07:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

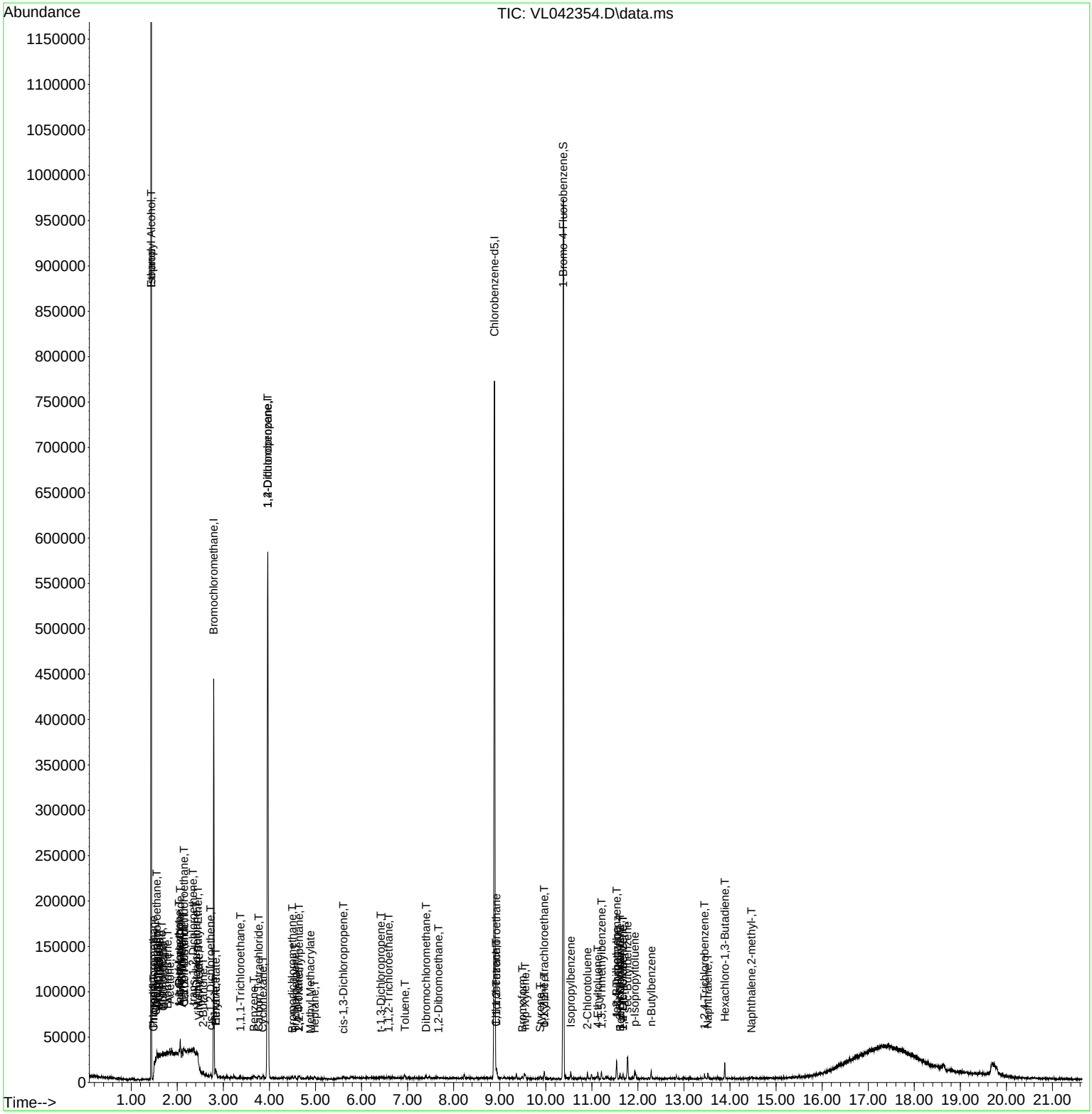
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 54) 1,2-Dibromoethane | 7.668 | 107 | 422 | 0.021 | ppbv | # | 12 |
| 56) 1,1,1,2-Tetrachloroethane | 8.927 | 131 | 589 | 0.031 | ppbv | # | 1 |
| 57) Chlorobenzene | 8.920 | 112 | 567 | 0.017 | ppbv | # | 74 |
| 59) m/p-Xylene | 9.555 | 91 | 1648 | 0.033 | ppbv | # | 32 |
| 60) o-Xylene | 9.966 | 91 | 1938 | 0.039 | ppbv | | 84 |
| 61) Styrene | 9.875 | 104 | 813 | 0.034 | ppbv | | 93 |
| 62) Isopropylbenzene | 10.542 | 105 | 2934 | 0.040 | ppbv | | 92 |
| 63) 1,1,2,2-Tetrachloroethane | 9.966 | 83 | 826 | 0.025 | ppbv | # | 58 |
| 65) tert-Butylbenzene | 11.536 | 119 | 2656 | 0.039 | ppbv | | 90 |
| 66) Benzyl Chloride | 11.620 | 91 | 130 | 0.017 | ppbv | # | 70 |
| 67) sec-Butylbenzene | 11.772 | 105 | 3658 | 0.039 | ppbv | # | 85 |
| 69) p-Isopropyltoluene | 11.930 | 119 | 3139 | 0.038 | ppbv | | 94 |
| 70) n-Butylbenzene | 12.290 | 91 | 2516 | 0.029 | ppbv | # | 81 |
| 71) 2-Chlorotoluene | 10.901 | 91 | 2537 | 0.044 | ppbv | | 99 |
| 72) 4-Ethyltoluene | 11.128 | 105 | 2221 | 0.036 | ppbv | # | 69 |
| 73) 1,3,5-Trimethylbenzene | 11.212 | 105 | 2473 | 0.046 | ppbv | # | 86 |
| 74) 1,2,4-Trimethylbenzene | 11.539 | 105 | 4320 | 0.068 | ppbv | # | 80 |
| 75) 1,3-Dichlorobenzene | 11.613 | 146 | 1056 | 0.032 | ppbv | | 91 |
| 76) 1,4-Dichlorobenzene | 11.671 | 146 | 1180 | 0.036 | ppbv | | 95 |
| 77) 1,2-Dichlorobenzene | 11.671 | 146 | 1180 | 0.037 | ppbv | | 93 |
| 78) Hexachloro-1,3-Butadiene | 13.889 | 225 | 1879 | 0.058 | ppbv | | 92 |
| 79) Naphthalene | 13.516 | 128 | 2354 | 0.031 | ppbv | # | 84 |
| 80) Naphthalene,2-methyl- | 14.468 | 142 | 594 | 0.014 | ppbv | # | 52 |
| 81) 1,2,4-Trichlorobenzene | 13.445 | 180 | 614 | 0.019 | ppbv | # | 71 |

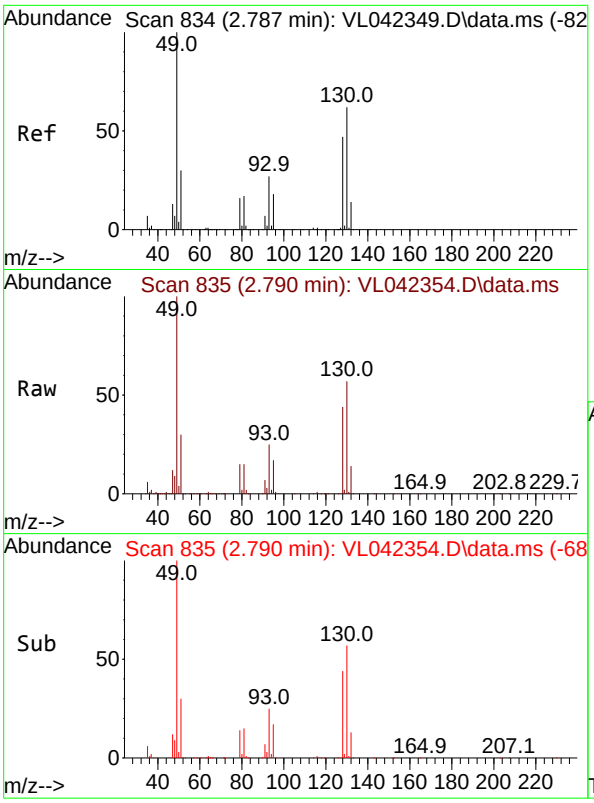
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042354.D
Acq On : 17 Apr 2025 12:22
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Quant Time: Apr 18 02:07:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration



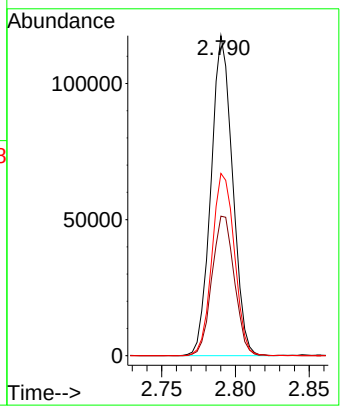


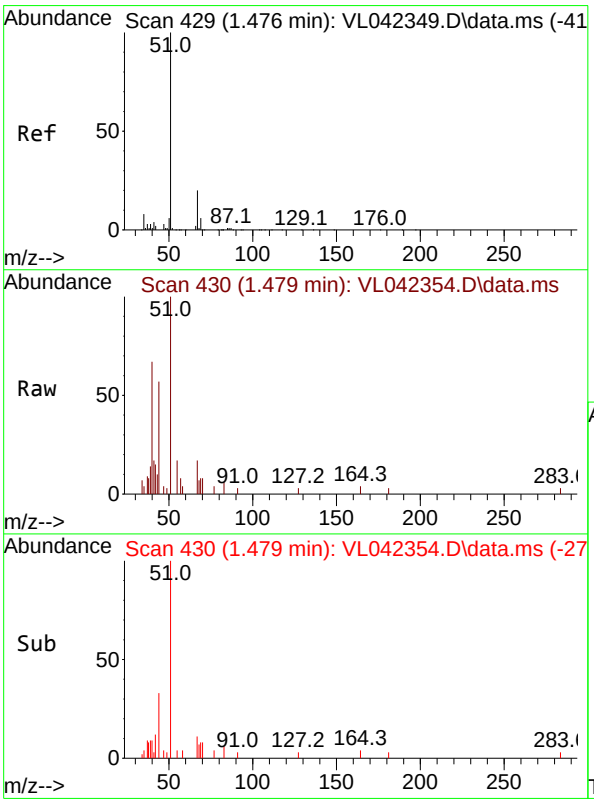

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion: 49 Resp: 120042

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 45.3 | 22.8 | 68.4 |
| 130 | 59.0 | 29.3 | 88.0 |

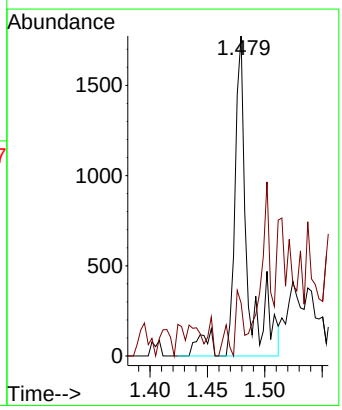


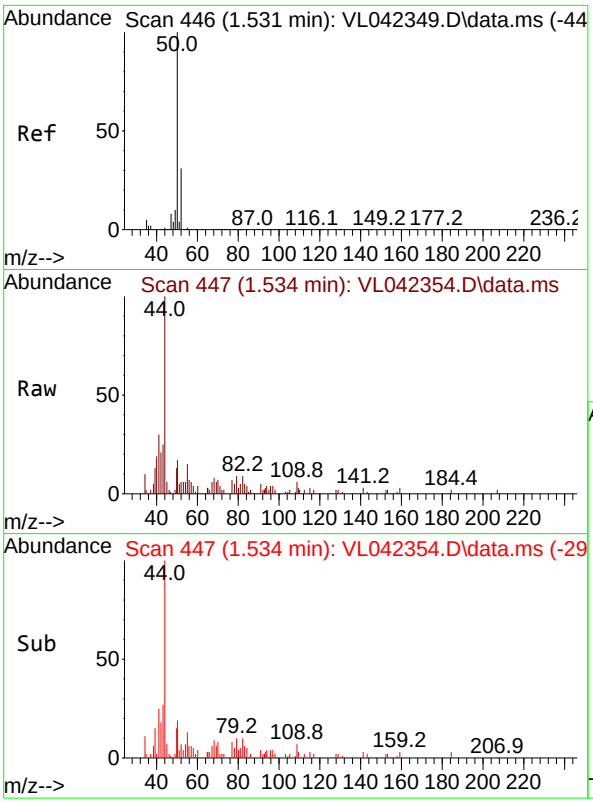




#3
Chlorodifluoromethane
Concen: 0.070 ppbv
RT: 1.479 min Scan# 430
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 51 Resp: 1404

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 30.7 | 16.2 | 24.4# |



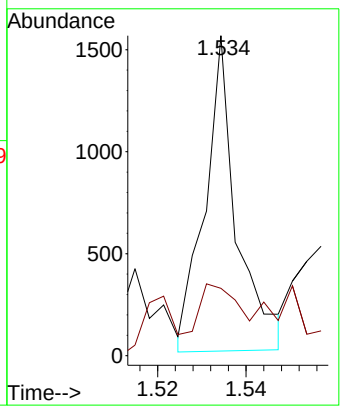


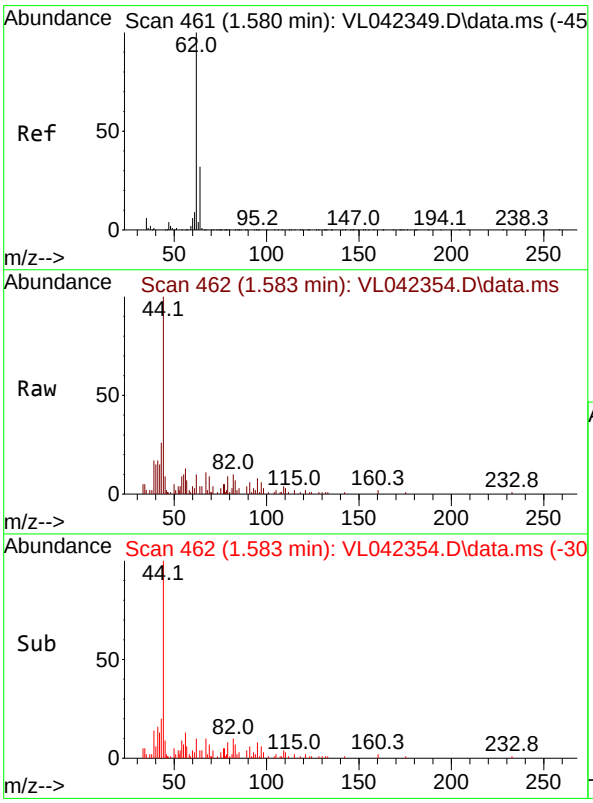

#4
Chloromethane
Concen: 0.092 ppbv
RT: 1.534 min Scan# 44
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion: 50 Resp: 773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 15.3 | 24.7 | 37.1# |

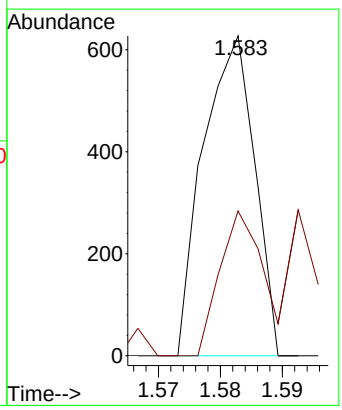


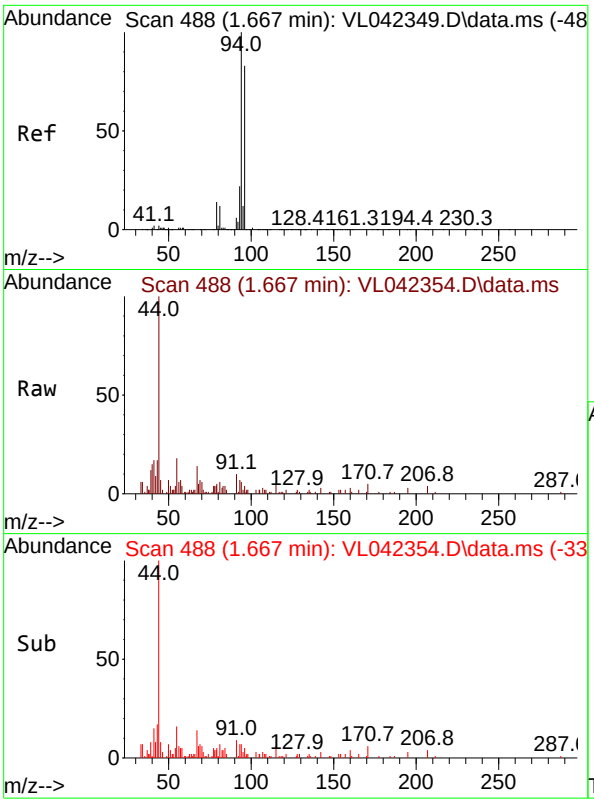




#5
Vinyl Chloride
Concen: 0.040 ppbv
RT: 1.583 min Scan# 462
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 62 Resp: 361

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 45.3 | 25.4 | 38.0# |



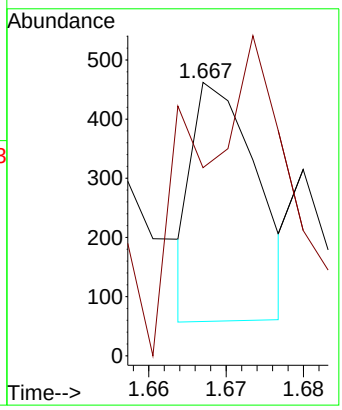


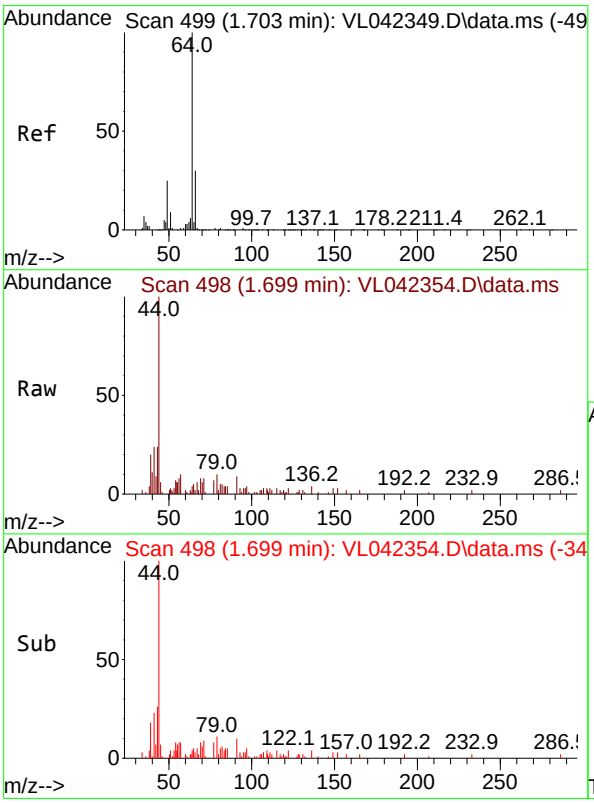

#6
Bromomethane
Concen: 0.059 ppbv
RT: 1.667 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion: 94 Resp: 232

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 0.0 | 66.2 | 99.2# |

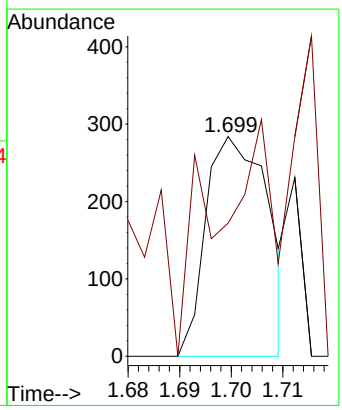


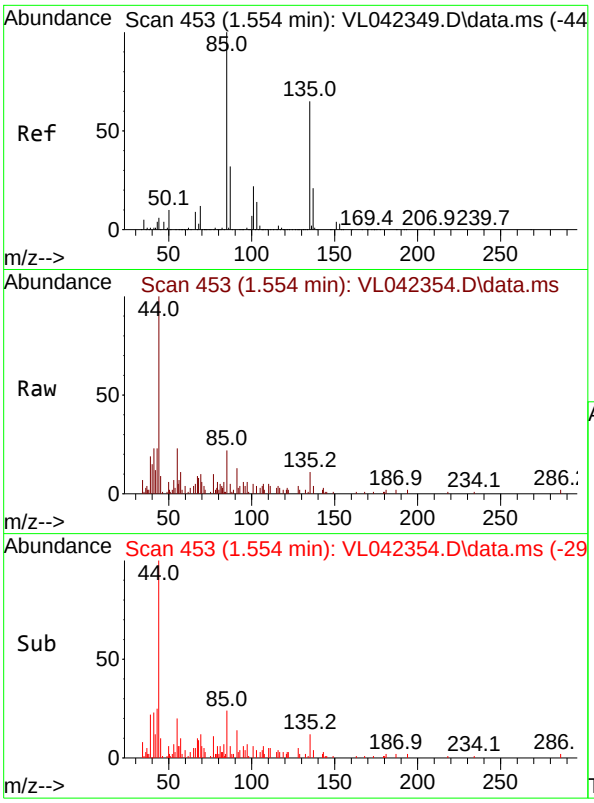




#7
Chloroethane
Concen: 0.072 ppbv
RT: 1.699 min Scan# 498
Delta R.T. -0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 64 Resp: 237

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 60.6 | 24.6 | 37.0# |



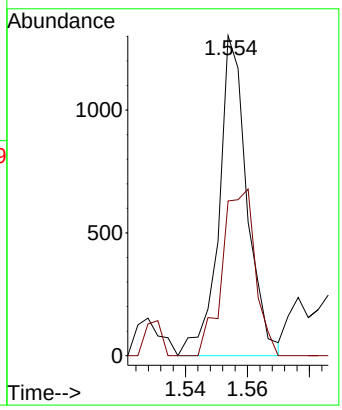


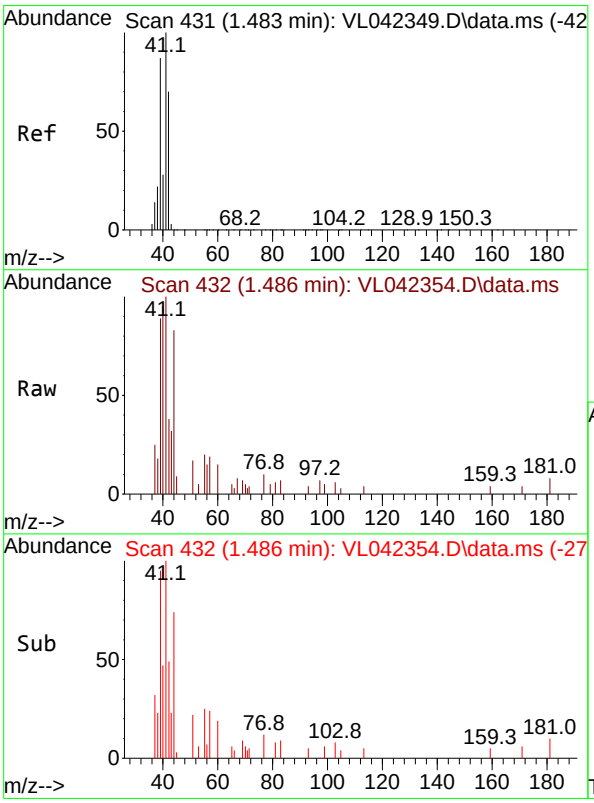

#8
Dichlorotetrafluoroethane
Concen: 0.045 ppbv
RT: 1.554 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion: 85 Resp: 823

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 69.1 | 52.2 | 78.2 |

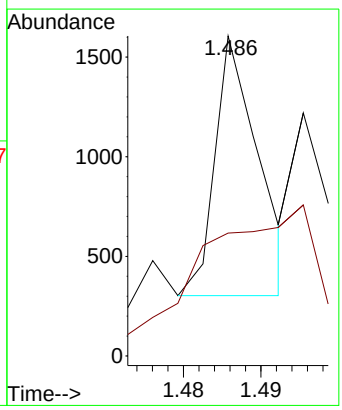


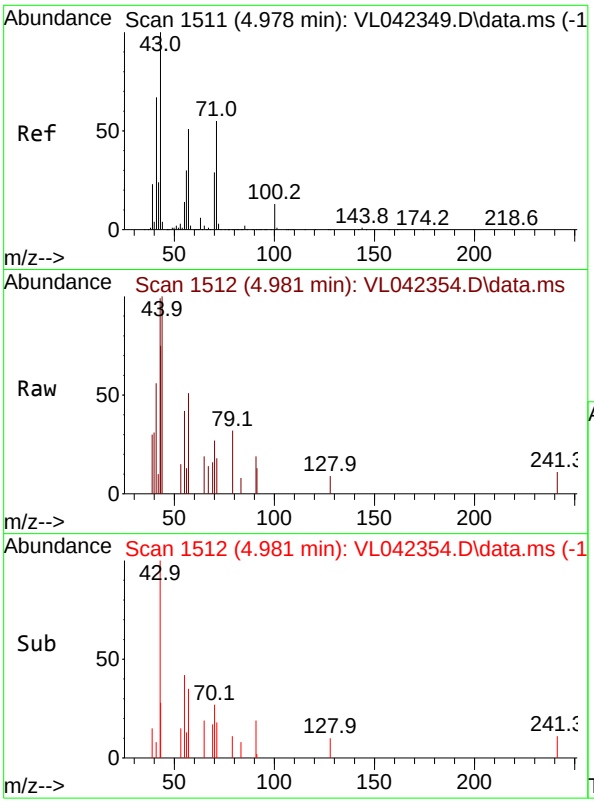




#9
Propene
Concen: 0.055 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 41 Resp: 508

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 0.0 | 56.2 | 84.4# |



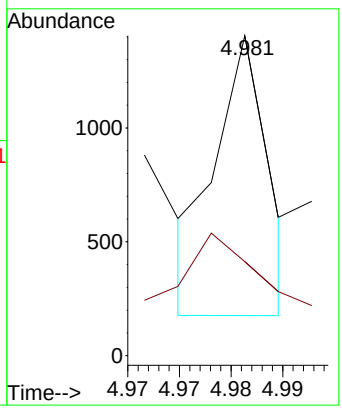


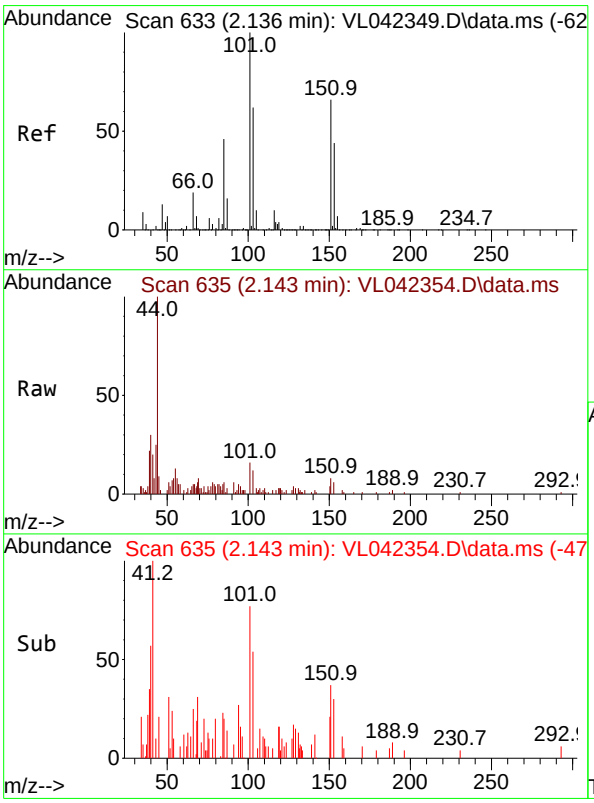

#10
Heptane
Concen: 0.018 ppbv
RT: 4.981 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion: 43 Resp: 435

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 283.4 | 39.9 | 59.9# |

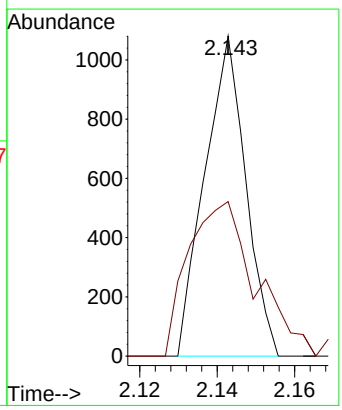


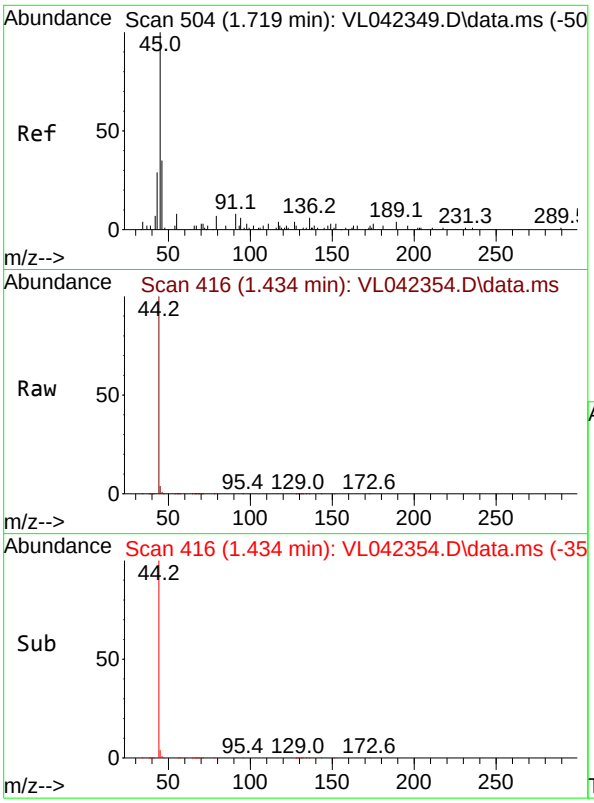




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.048 ppbv
RT: 2.143 min Scan# 635
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:101 Resp: 793

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 93.3 | 57.0 | 85.6# |



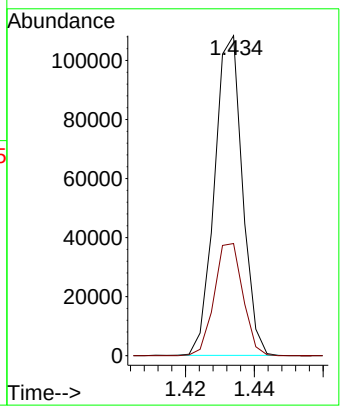


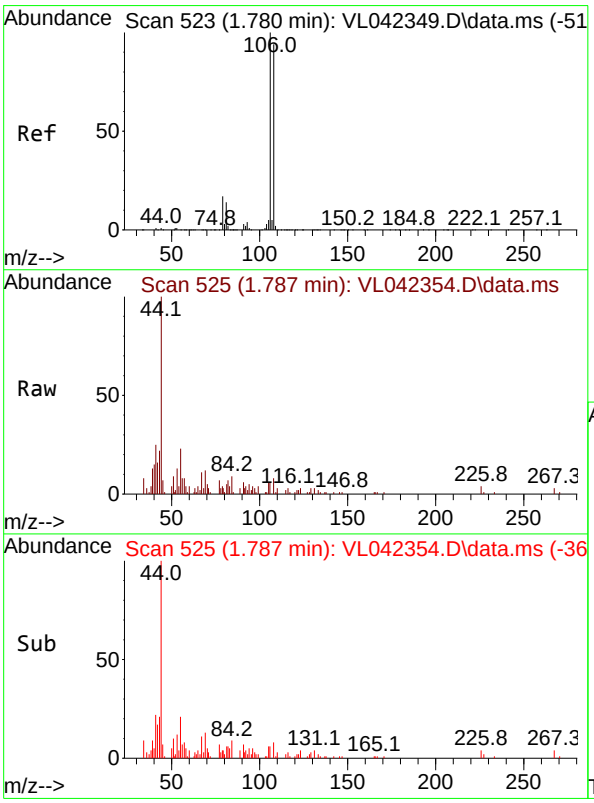

#13
Ethanol
Concen: 81.065 ppbv
RT: 1.434 min Scan# 4
Delta R.T. -0.285 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion: 45 Resp: 60931

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 36.1 | 21.9 | 87.7 |

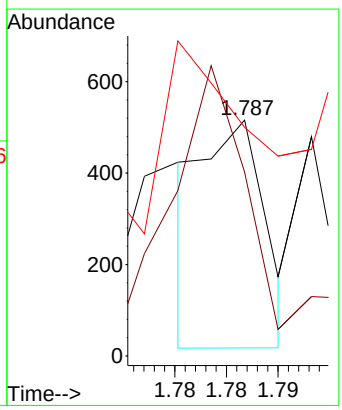


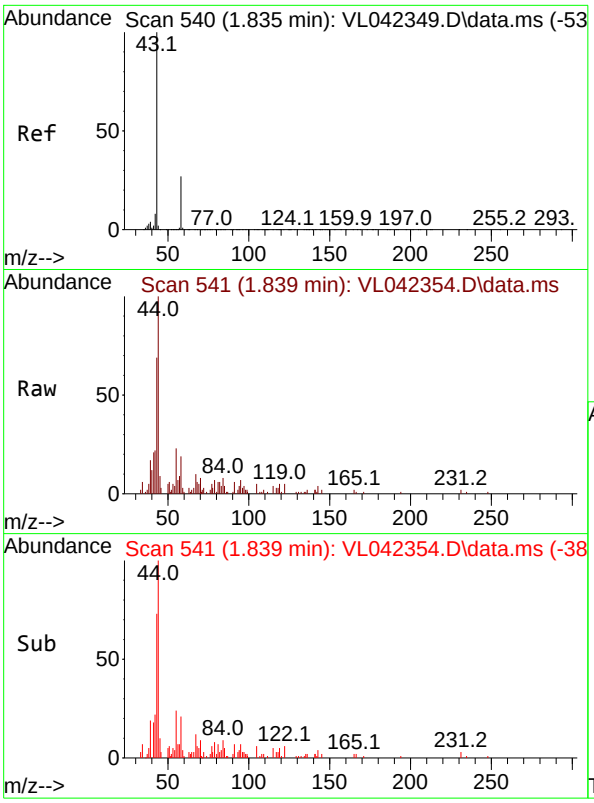




#14
Bromoethene
Concen: 0.033 ppbv
RT: 1.787 min Scan# 525
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:108 Resp: 207

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 106 | 248.3 | 85.9 | 128.9# |
| 79 | 0.0 | 13.9 | 20.9# |



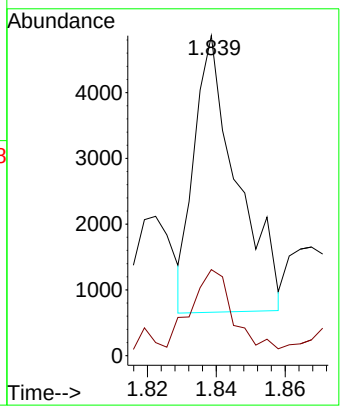


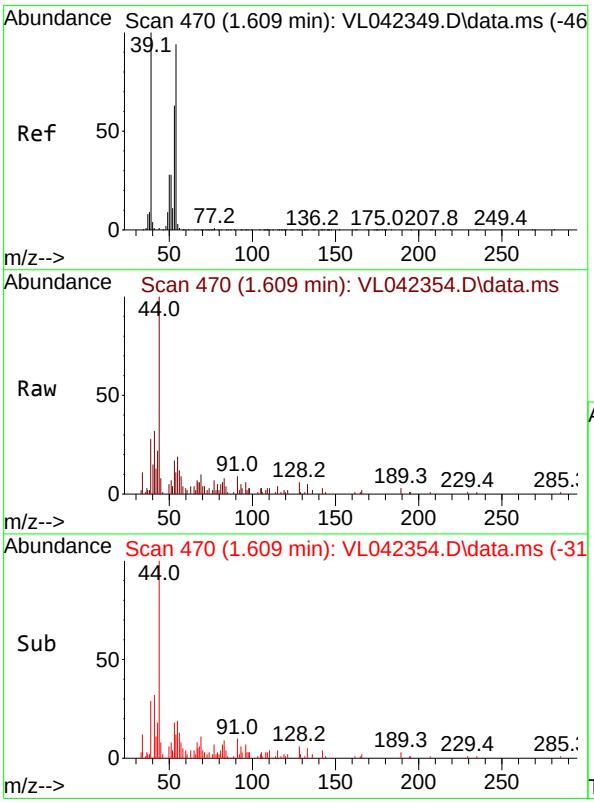

#15
Acetone
Concen: 0.183 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion: 43 Resp: 3597

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 33.7 | 22.4 | 33.6# |

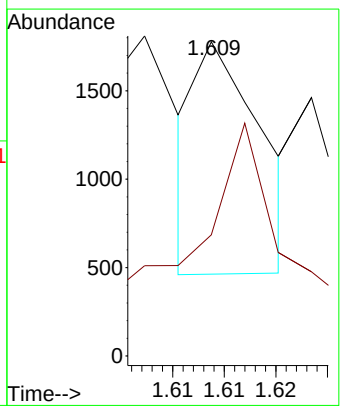


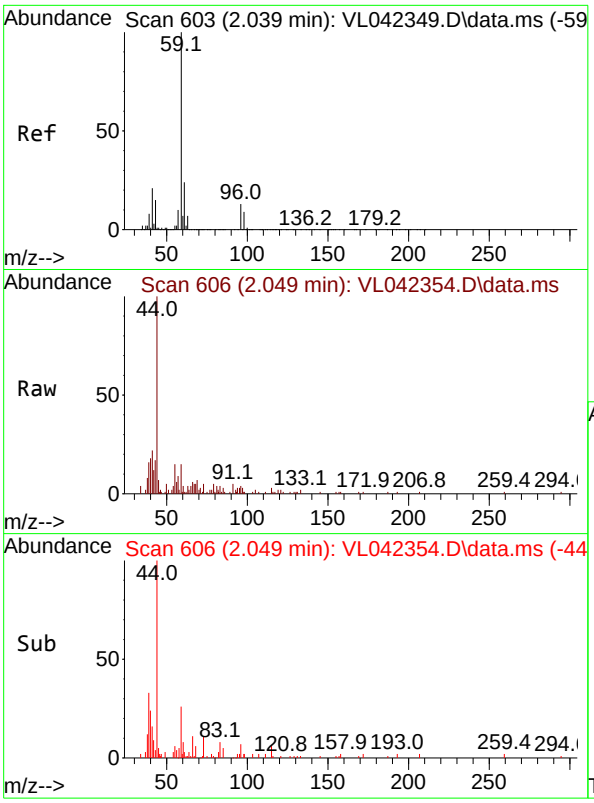




#16
1,3-Butadiene
Concen: 0.062 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 39 Resp: 573

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 377.0 | 64.9 | 97.3# |



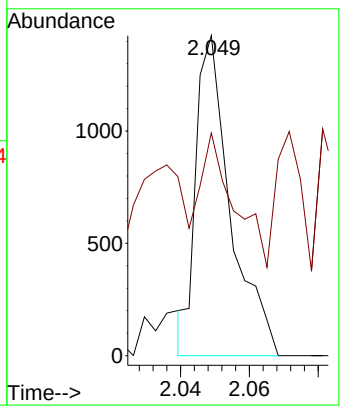


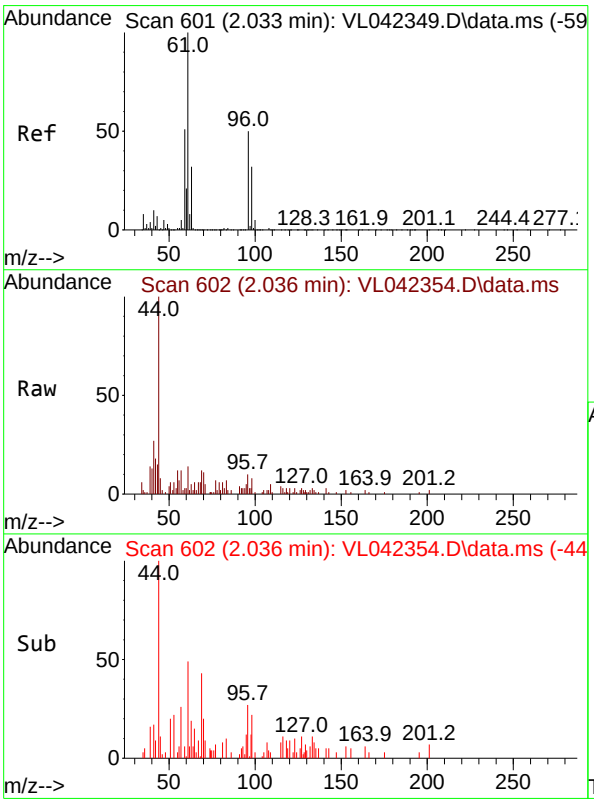

#17
tert-Butyl alcohol
Concen: 0.041 ppbv
RT: 2.049 min Scan# 6
Delta R.T. 0.010 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion: 59 Resp: 991

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 113.2 | 8.7 | 13.1# |

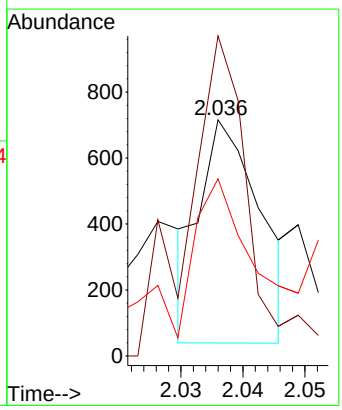


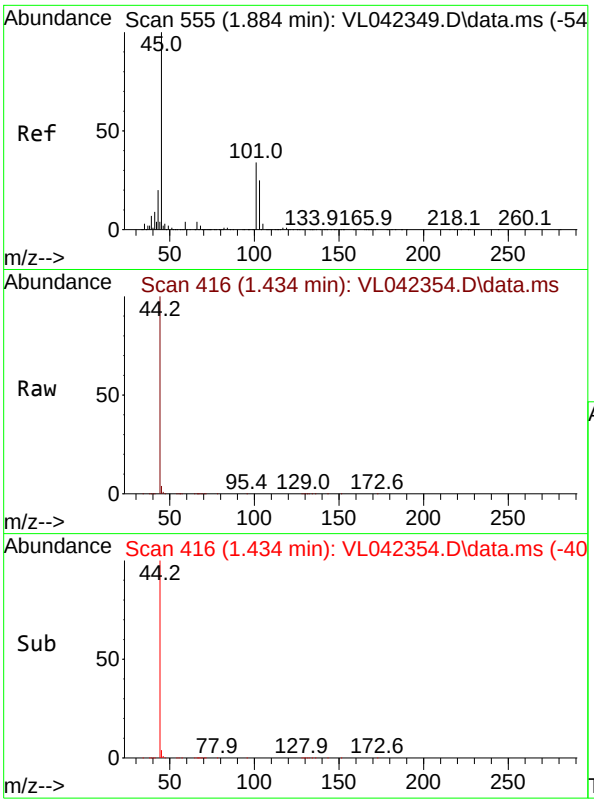




#18
1,1-Dichloroethene
Concen: 0.057 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 96 Resp: 455

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 271.0 | 160.2 | 240.2# |
| 98 | 132.1 | 51.0 | 76.4# |



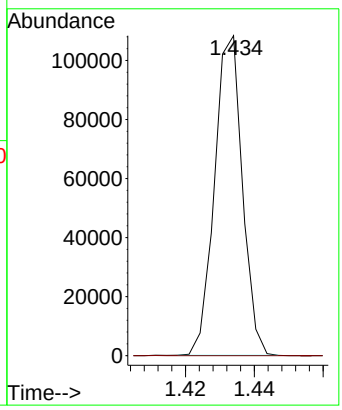


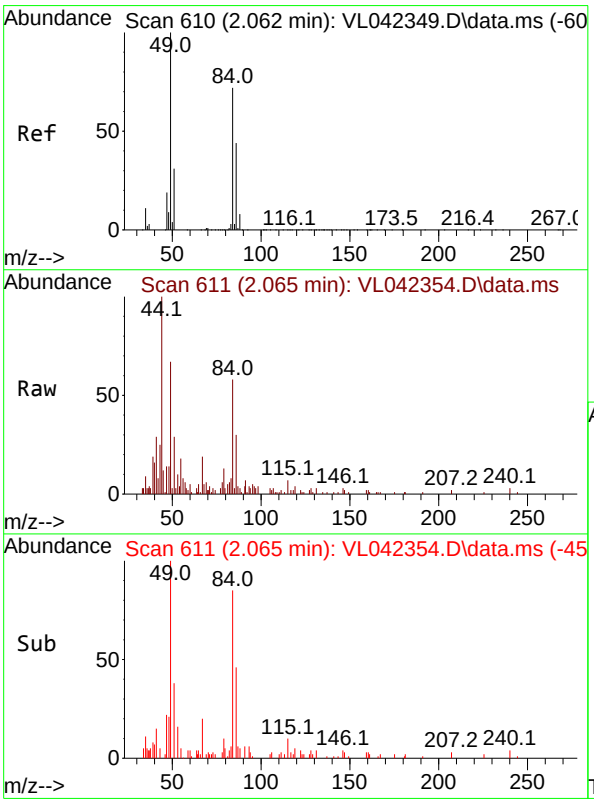

#19
Isopropyl Alcohol
Concen: 5.582 ppbv
RT: 1.434 min Scan# 4
Delta R.T. -0.450 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion: 45 Resp: 60931

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 0.2 | 34.5 | 51.7# |

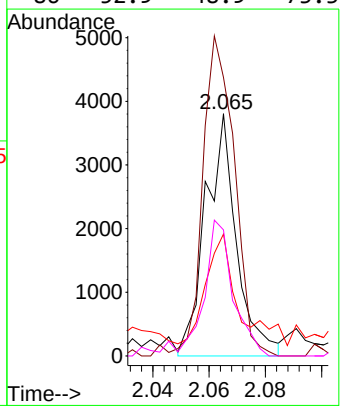


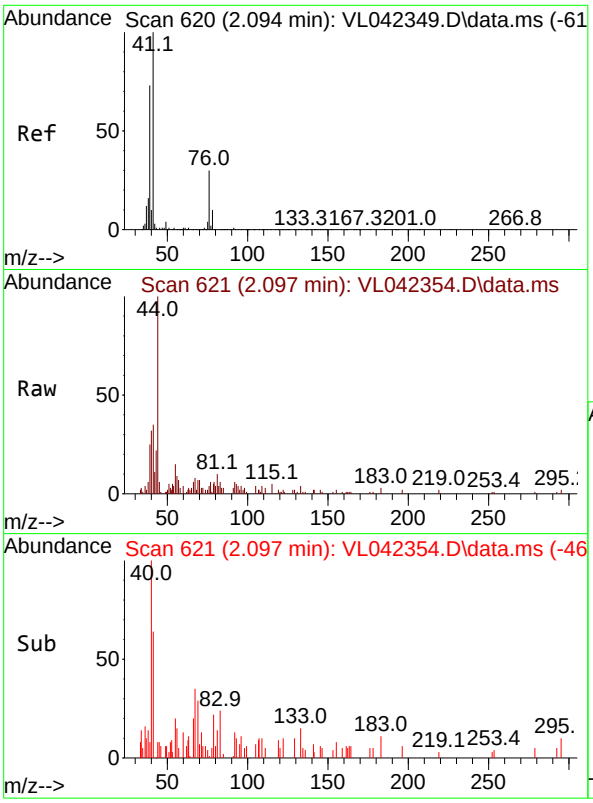




#20
Methylene Chloride
Concen: 0.377 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 84 Resp: 2904

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 116.9 | 111.6 | 167.4 |
| 51 | 46.1 | 35.1 | 52.7 |
| 86 | 52.9 | 48.9 | 73.3 |



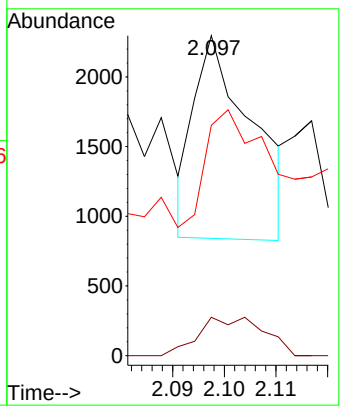


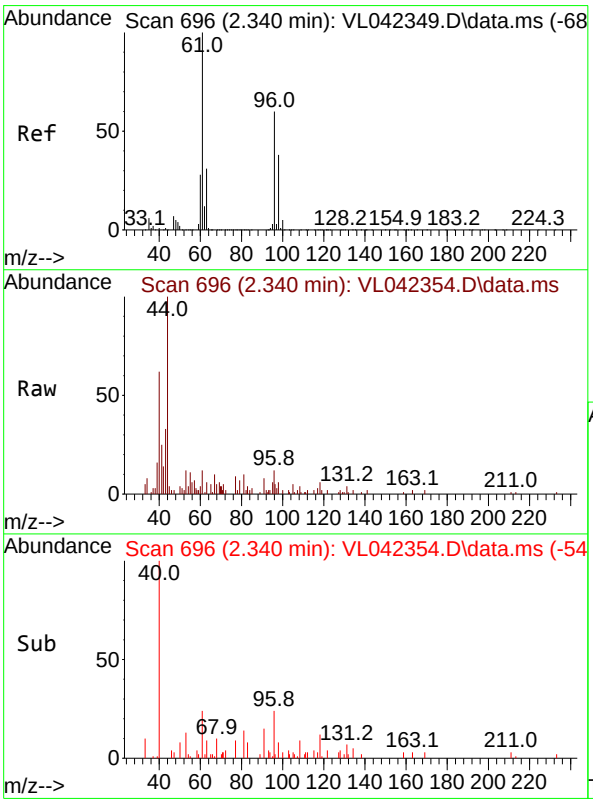

#21
Allyl Chloride
Concen: 0.083 ppbv
RT: 2.097 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion: 41 Resp: 1132

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 21.5 | 24.8 | 37.2# |
| 39 | 407.5 | 60.6 | 90.8# |

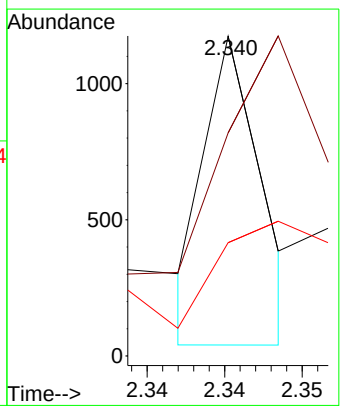


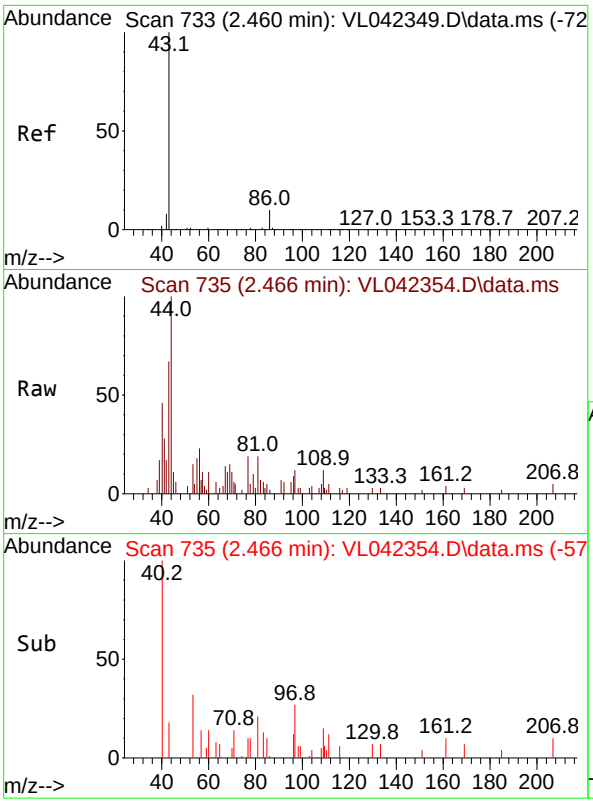




#22
trans-1,2-Dichloroethene
Concen: 0.033 ppbv
RT: 2.340 min Scan# 696
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 96 Resp: 287

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 58.7 | 133.7 | 200.5# |
| 98 | 36.0 | 50.3 | 75.5# |



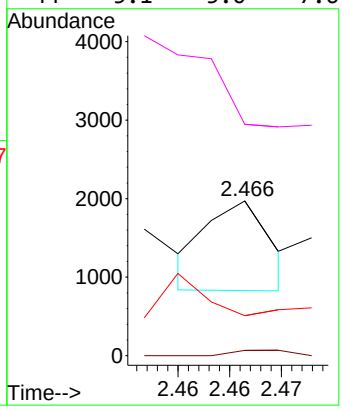


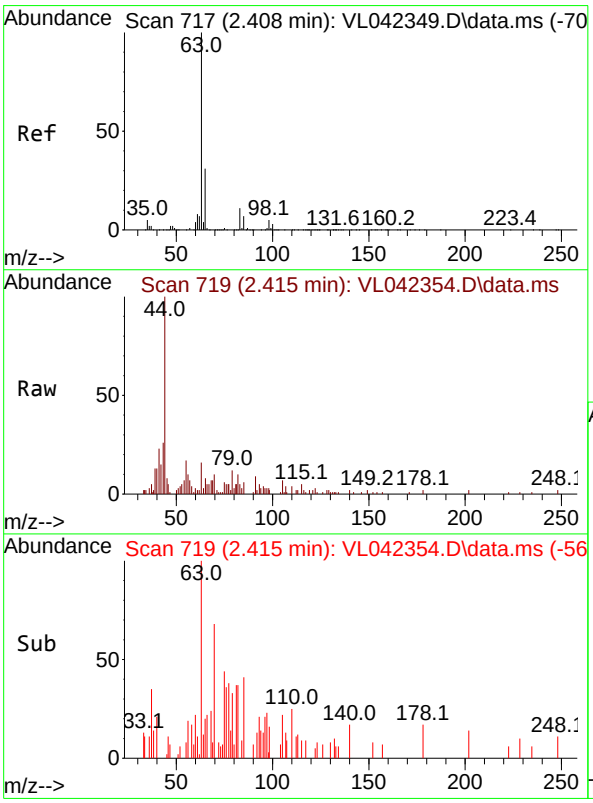

#23
Vinyl Acetate
Concen: 0.062 ppbv
RT: 2.466 min Scan# 7
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion: 43 Resp: 490

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.1 | 6.5 | 9.7# |
| 42 | 0.0 | 7.8 | 11.8# |
| 44 | 5.1 | 5.0 | 7.6 |

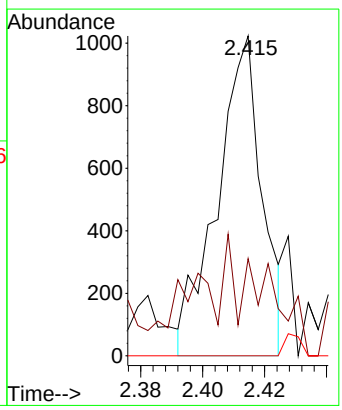


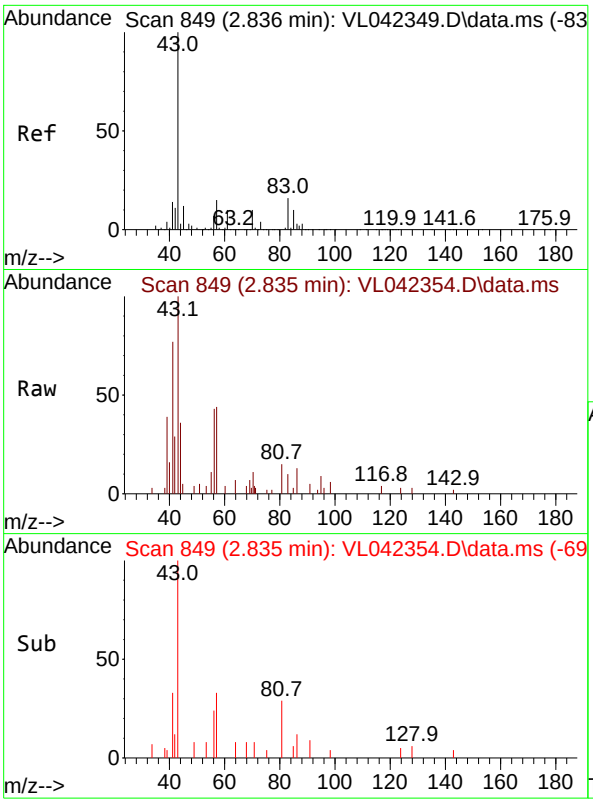




#24
1,1-Dichloroethane
Concen: 0.062 ppbv
RT: 2.415 min Scan# 719
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 63 Resp: 1030

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 17.1 | 2.3 | 6.8# |
| 100 | 0.0 | 1.6 | 4.8# |



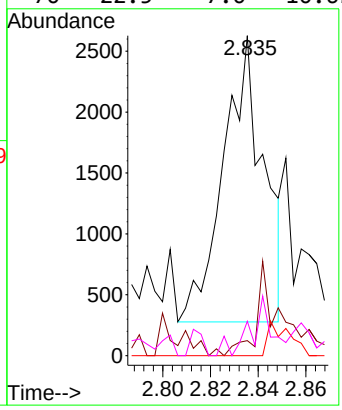


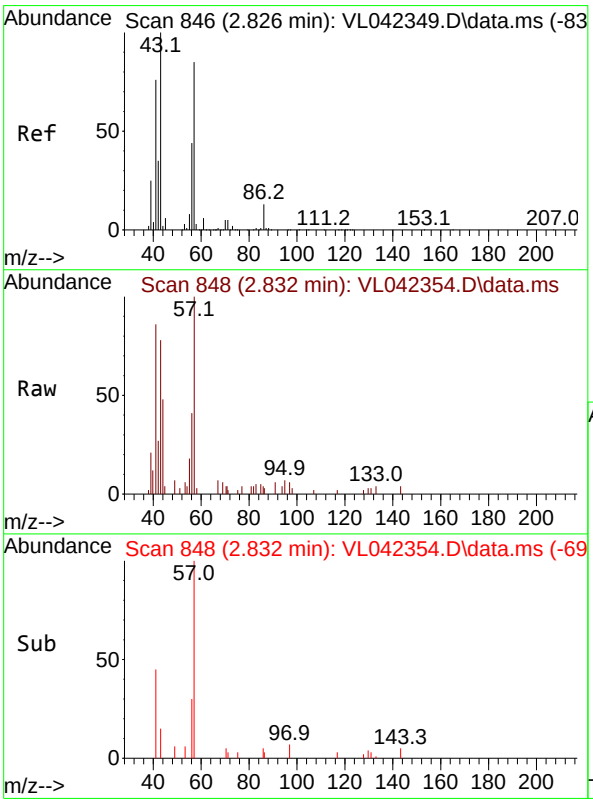

#25
Ethyl Acetate
Concen: 0.057 ppbv
RT: 2.835 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion: 43 Resp: 2744

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 21.1 | 8.3 | 12.5# |
| 61 | 6.4 | 7.3 | 10.9# |
| 70 | 22.5 | 7.0 | 10.6# |

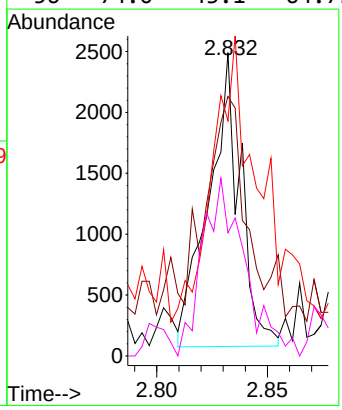


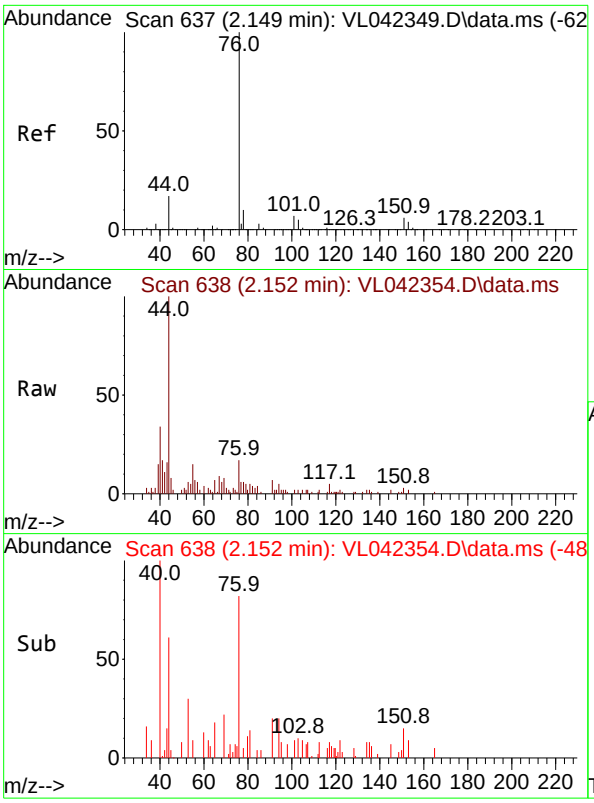




#26
Hexane
Concen: 0.122 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 57 Resp: 2398

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 125.7 | 77.9 | 116.9# |
| 43 | 191.2 | 208.4 | 312.6# |
| 56 | 74.0 | 43.1 | 64.7# |



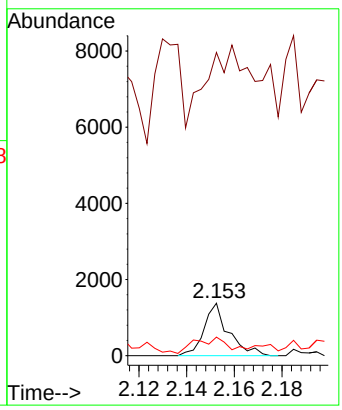


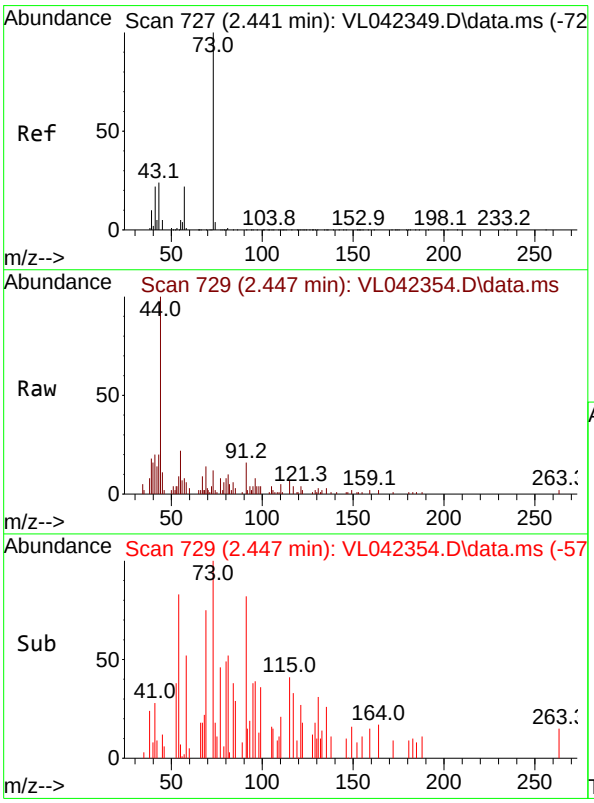

#27
Carbon Disulfide
Concen: 0.047 ppbv
RT: 2.152 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion: 76 Resp: 984

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 1141.4 | 15.5 | 23.3# |
| 78 | 54.0 | 9.3 | 13.9# |

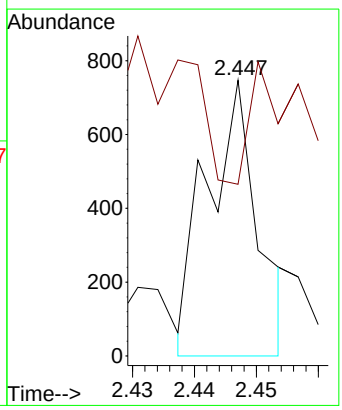


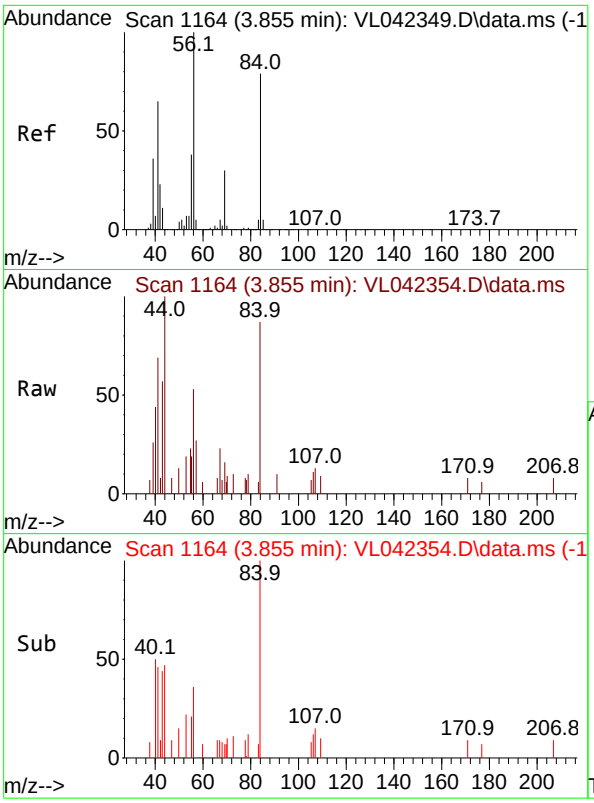




#28
Methyl tert-Butyl Ether
Concen: 0.033 ppbv
RT: 2.447 min Scan# 729
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 73 Resp: 426

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 0.0 | 21.3 | 31.9# |



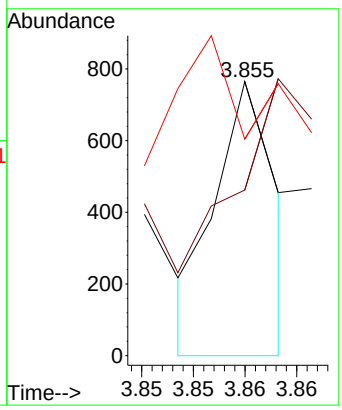


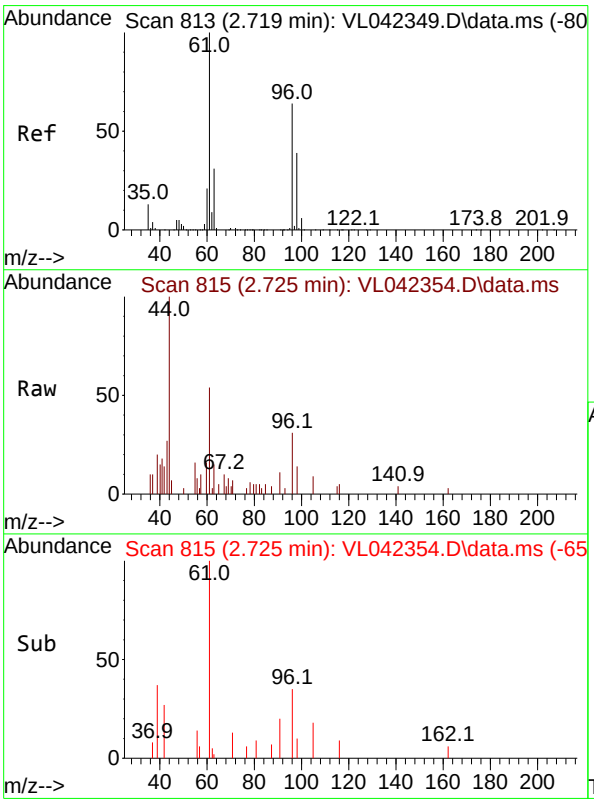

#30
Cyclohexane
Concen: 0.020 ppbv
RT: 3.855 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion: 84 Resp: 311

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 0.0 | 101.0 | 151.4# |
| 41 | 0.0 | 67.4 | 101.0# |

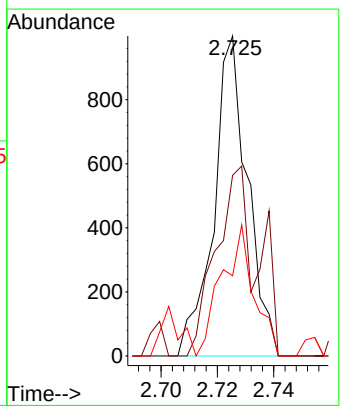


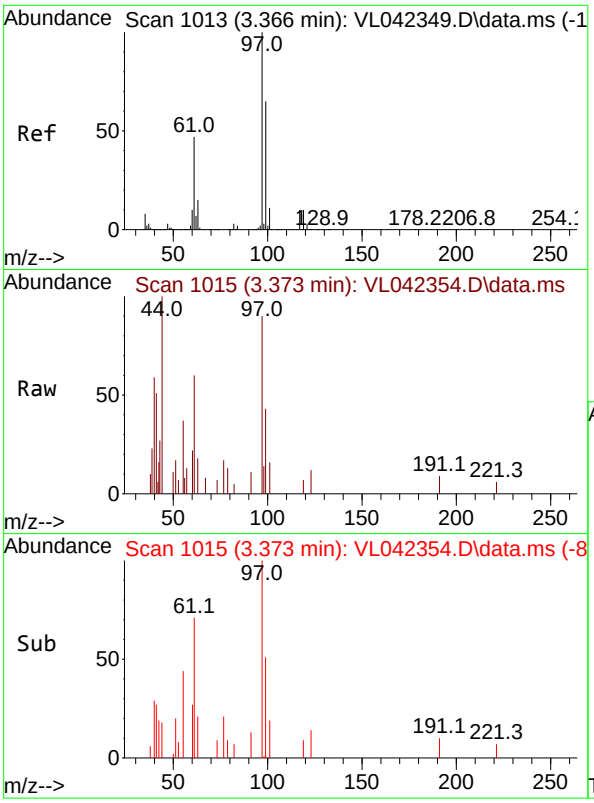




#31
cis-1,2-Dichloroethene
Concen: 0.045 ppbv
RT: 2.725 min Scan# 815
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 61 Resp: 831

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 56.5 | 50.8 | 76.2 |
| 98 | 25.0 | 30.9 | 46.3# |



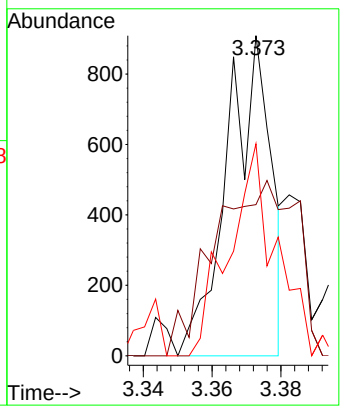


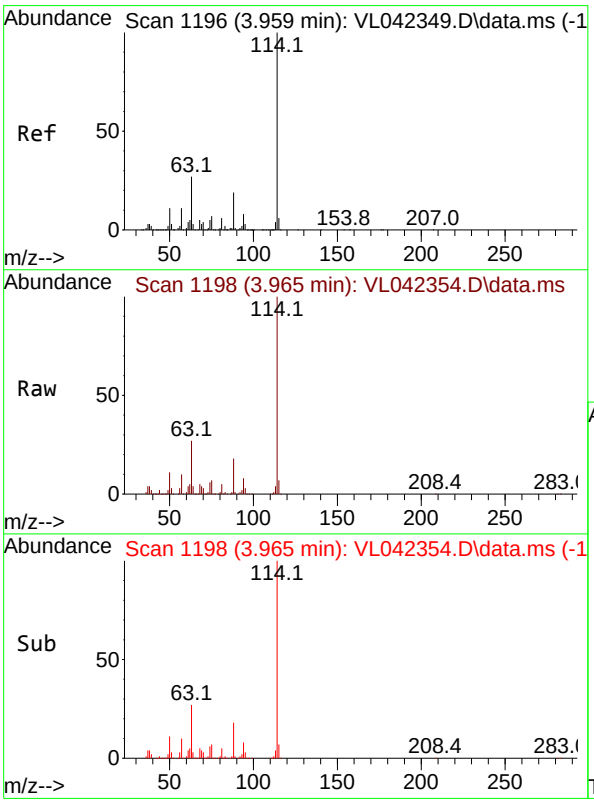

#32
1,1,1-Trichloroethane
Concen: 0.027 ppbv
RT: 3.373 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion: 97 Resp: 809

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 103.0 | 51.0 | 76.4# |
| 61 | 78.7 | 38.8 | 58.2# |

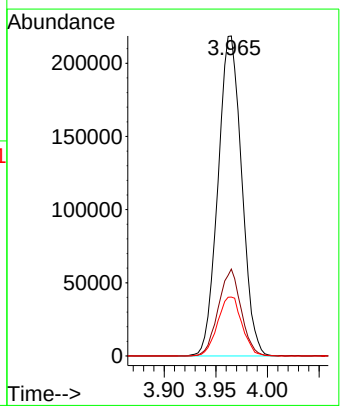


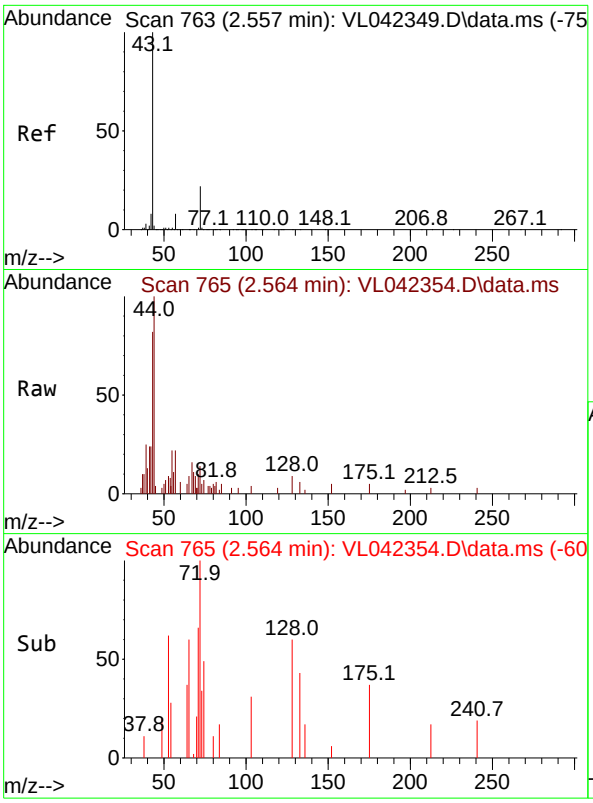




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:114 Resp: 349264

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 26.0 | 21.8 | 32.6 |
| 88 | 19.0 | 15.5 | 23.3 |



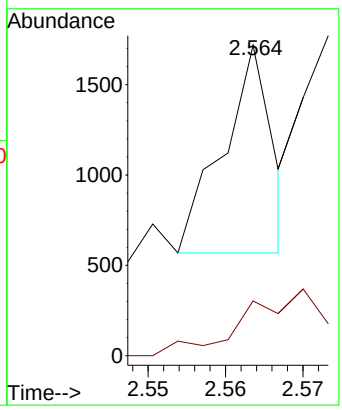


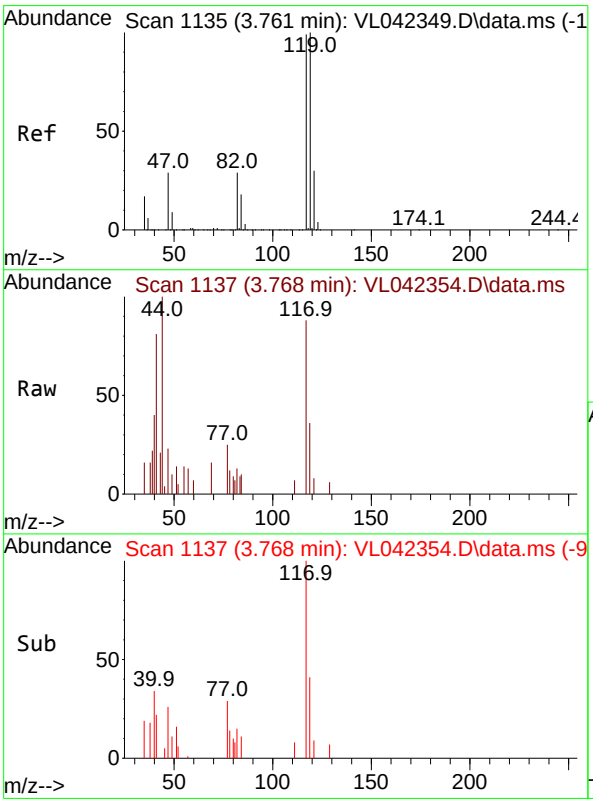

#34
2-Butanone
Concen: 0.018 ppbv
RT: 2.564 min Scan# 7
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion: 43 Resp: 510

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 0.0 | 18.2 | 27.2# |

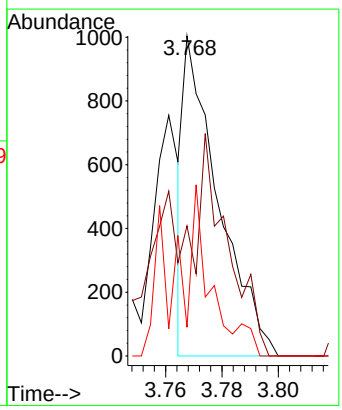


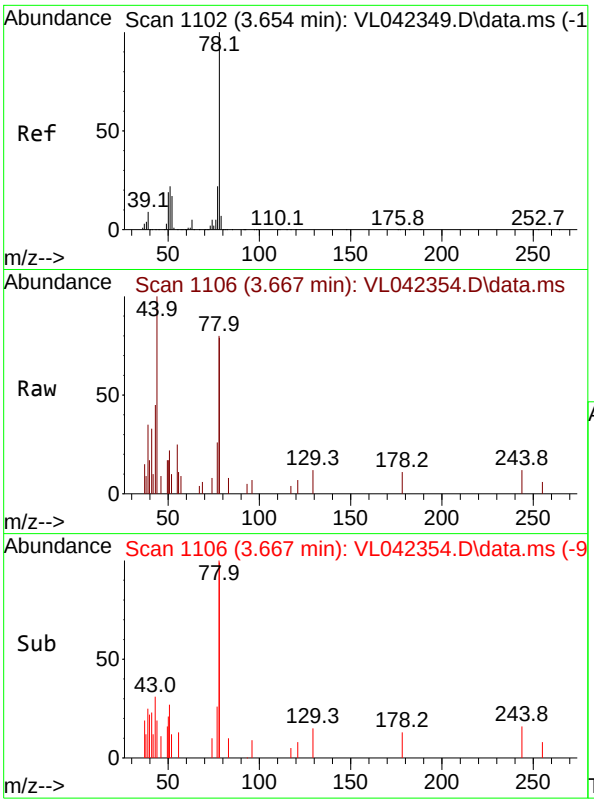




#35
Carbon Tetrachloride
Concen: 0.027 ppbv
RT: 3.768 min Scan# 1137
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:117 Resp: 862

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 40.6 | 80.5 | 120.7# |
| 121 | 9.0 | 24.2 | 36.2# |



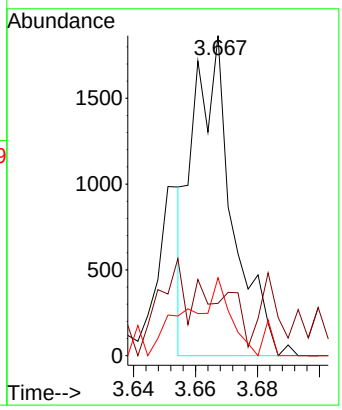


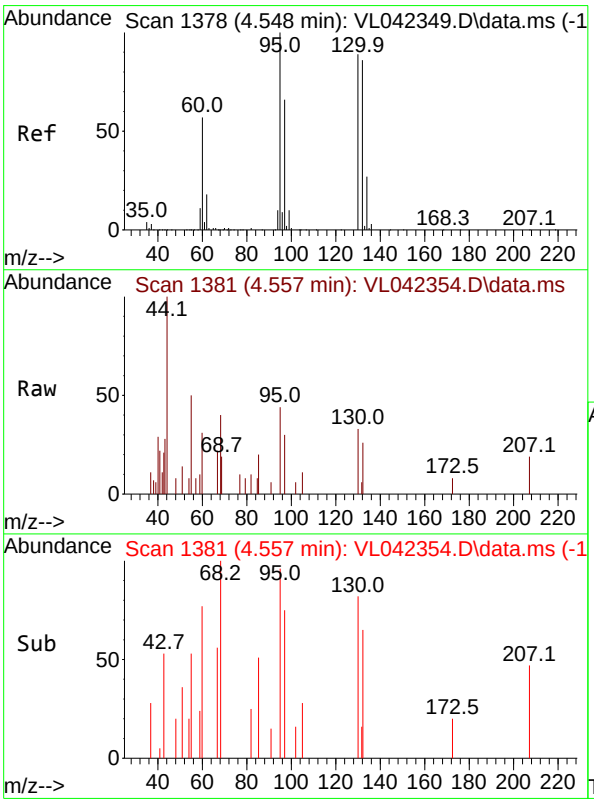

#36
Benzene
Concen: 0.043 ppbv
RT: 3.667 min Scan# 1
Delta R.T. 0.013 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion: 78 Resp: 1629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 4.6 | 17.4 | 26.0# |
| 50 | 25.2 | 15.5 | 23.3# |

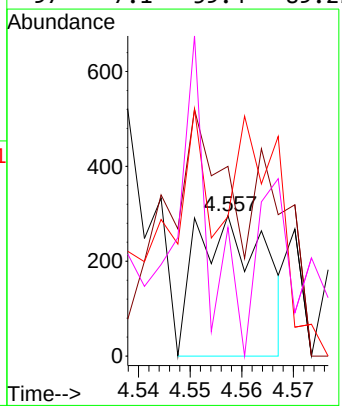


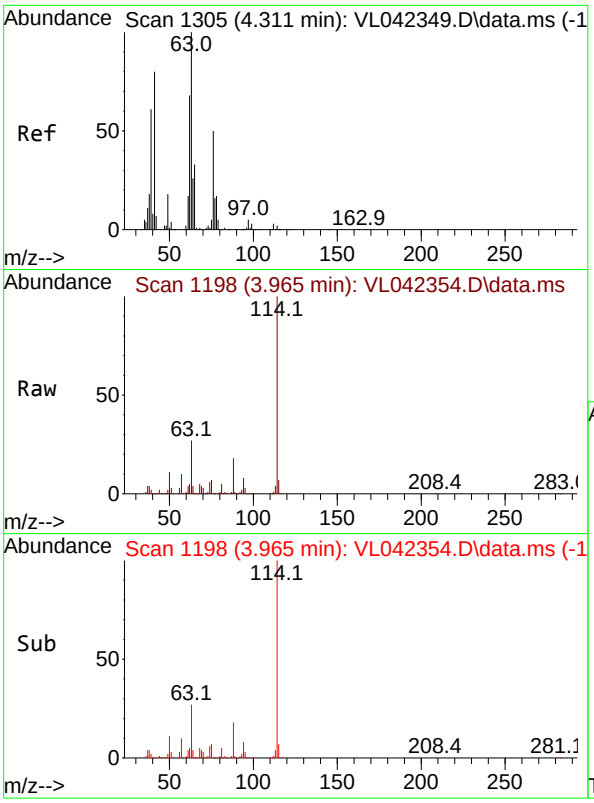




#38
Trichloroethene
Concen: 0.016 ppbv
RT: 4.557 min Scan# 1381
Delta R.T. 0.010 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:130 Resp: 271

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 44.6 | 89.8 | 134.6# |
| 132 | 19.6 | 77.7 | 116.5# |
| 97 | 7.1 | 59.4 | 89.2# |



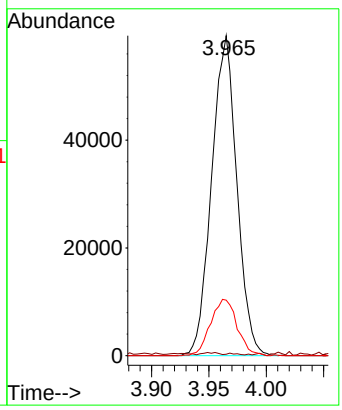


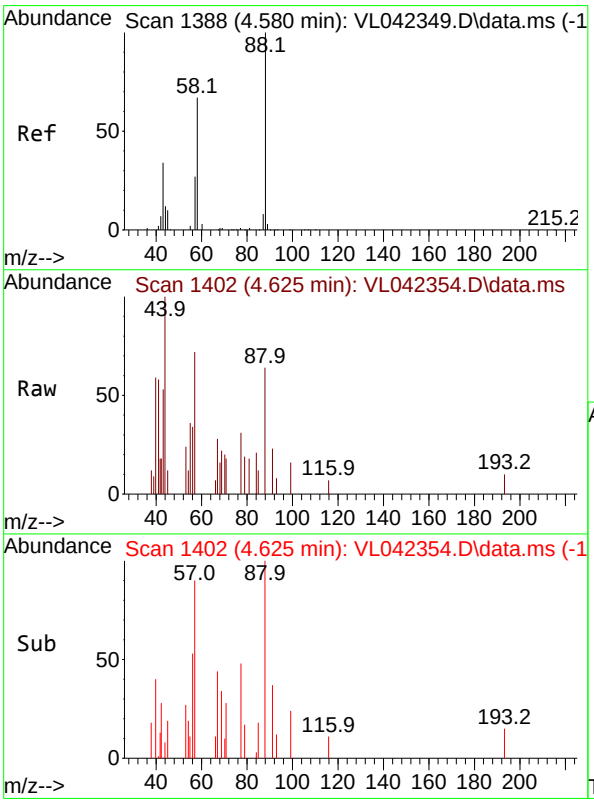

#39
1,2-Dichloropropane
Concen: 6.465 ppbv
RT: 3.965 min Scan# 1
Delta R.T. -0.346 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion: 63 Resp: 90827

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 0.0 | 64.2 | 96.2# |
| 62 | 17.4 | 54.3 | 81.5# |

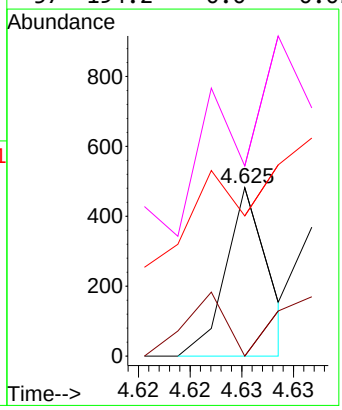


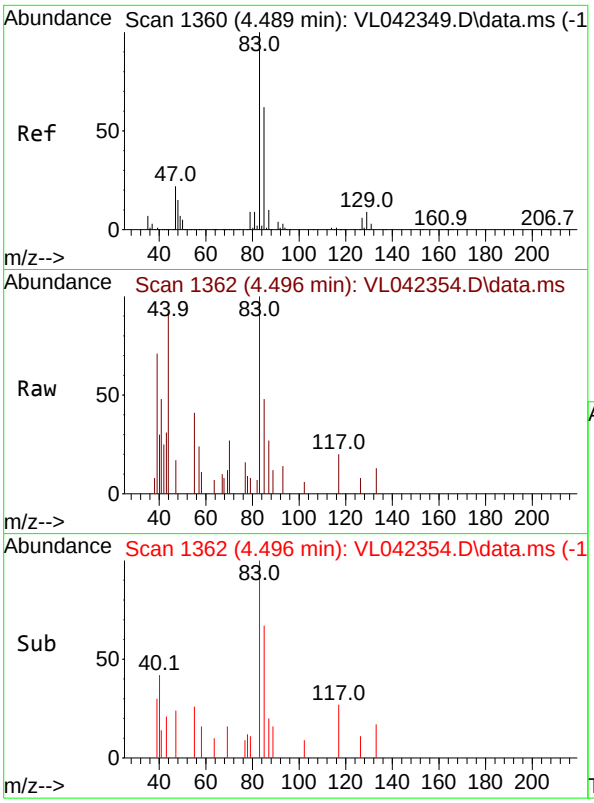




#40
1,4-Dioxane
Concen: 0.018 ppbv
RT: 4.625 min Scan# 1402
Delta R.T. 0.045 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 88 Resp: 139

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 0.0 | 61.4 | 92.0# |
| 43 | 251.8 | 23.2 | 34.8# |
| 57 | 194.2 | 0.0 | 0.0# |



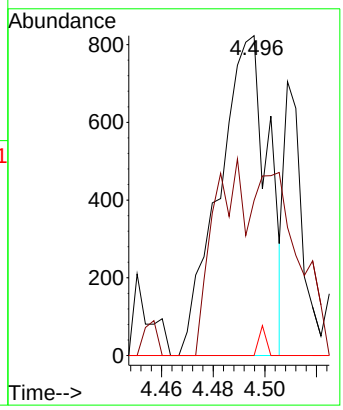


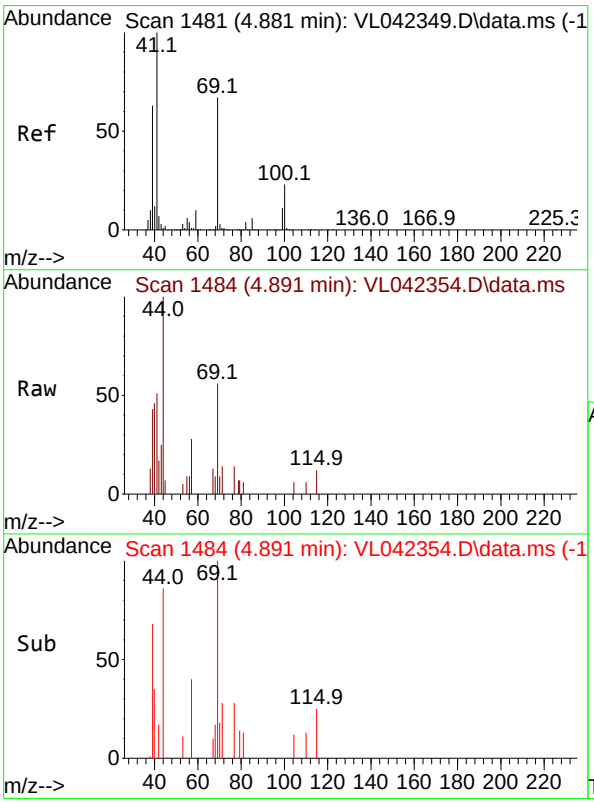

#42
Bromodichloromethane
Concen: 0.035 ppbv
RT: 4.496 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion: 83 Resp: 1093

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 48.5 | 49.7 | 74.5# |
| 127 | 0.0 | 5.1 | 7.7# |

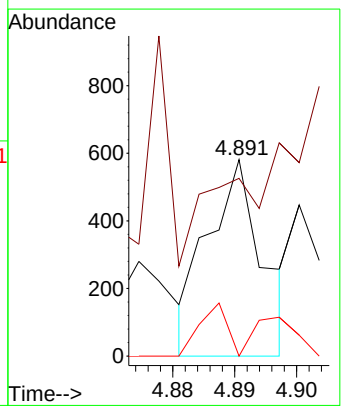


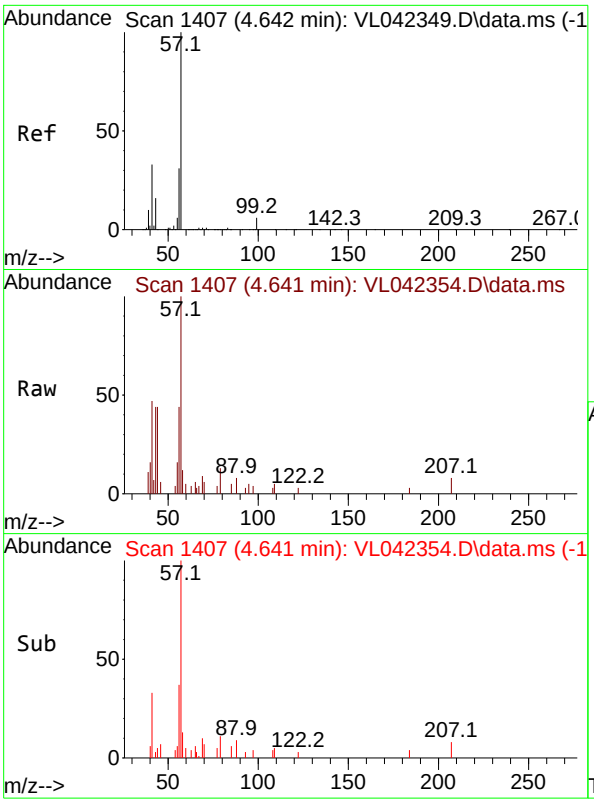




#43
Methyl Methacrylate
Concen: 0.021 ppbv
RT: 4.891 min Scan# 1484
Delta R.T. 0.010 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 69 Resp: 354

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 0.0 | 118.6 | 177.8# |
| 100 | 40.7 | 28.2 | 42.2 |



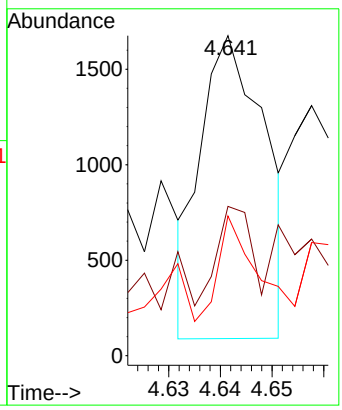


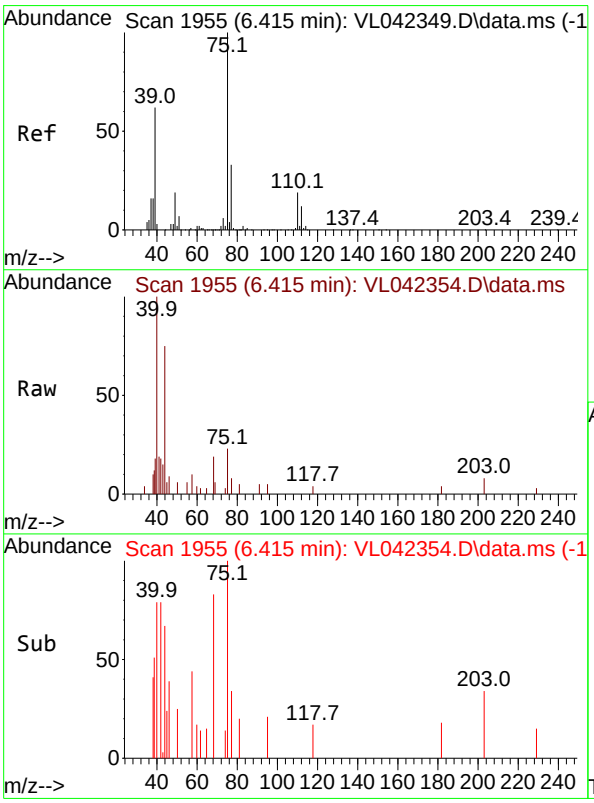

#44
2,2,4-Trimethylpentane
Concen: 0.021 ppbv
RT: 4.641 min Scan# 14
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion: 57 Resp: 1377

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 0.0 | 27.2 | 40.8# |
| 56 | 139.0 | 25.7 | 38.5# |

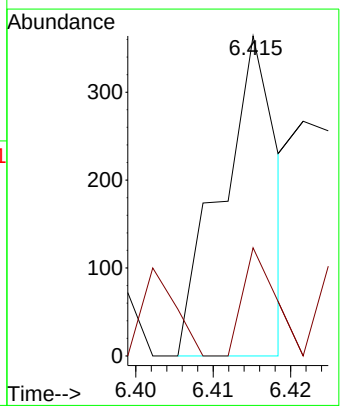


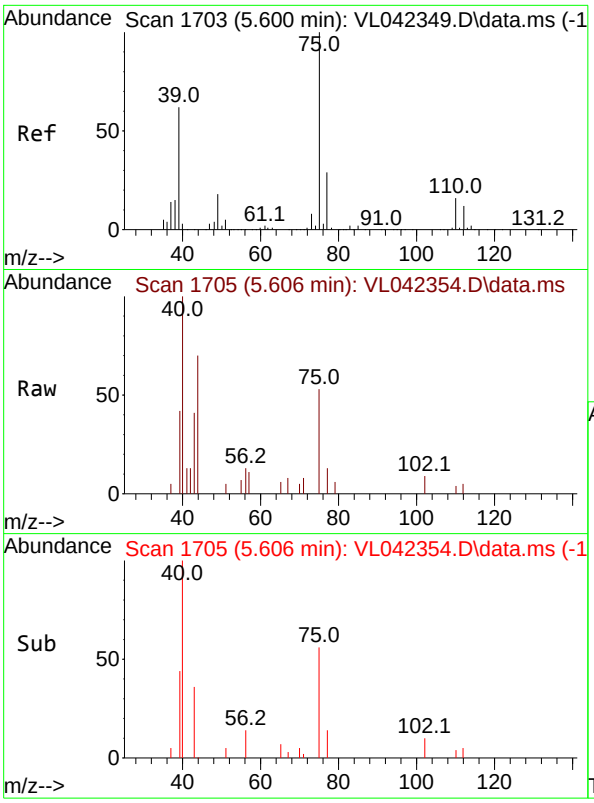




#45
t-1,3-Dichloropropene
Concen: 0.011 ppbv
RT: 6.415 min Scan# 1955
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 75 Resp: 183

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 33.8 | 27.0 | 40.6 |



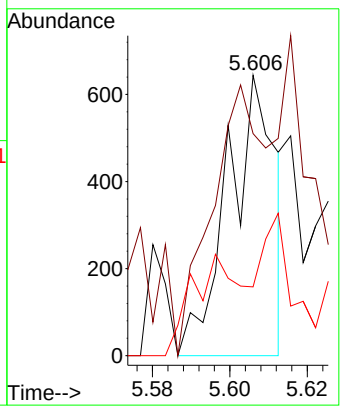


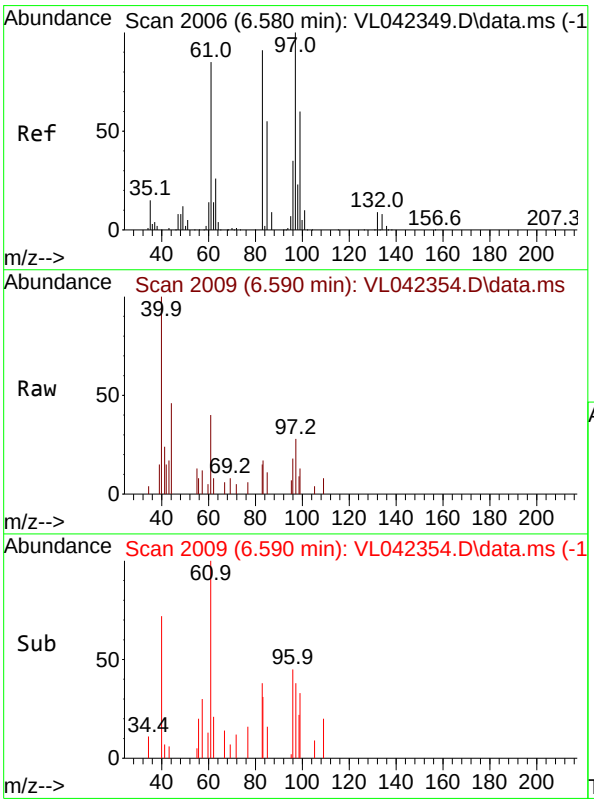

#46
cis-1,3-Dichloropropene
Concen: 0.026 ppbv
RT: 5.606 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion: 75 Resp: 546

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 39 | 1.7 | 50.0 | 75.0# |
| 77 | 13.7 | 23.0 | 34.6# |

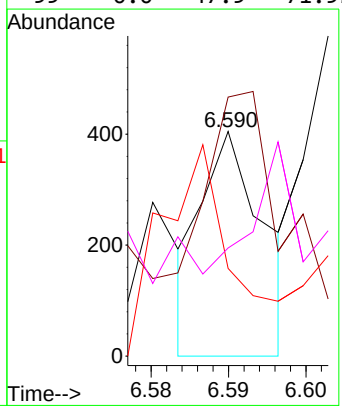


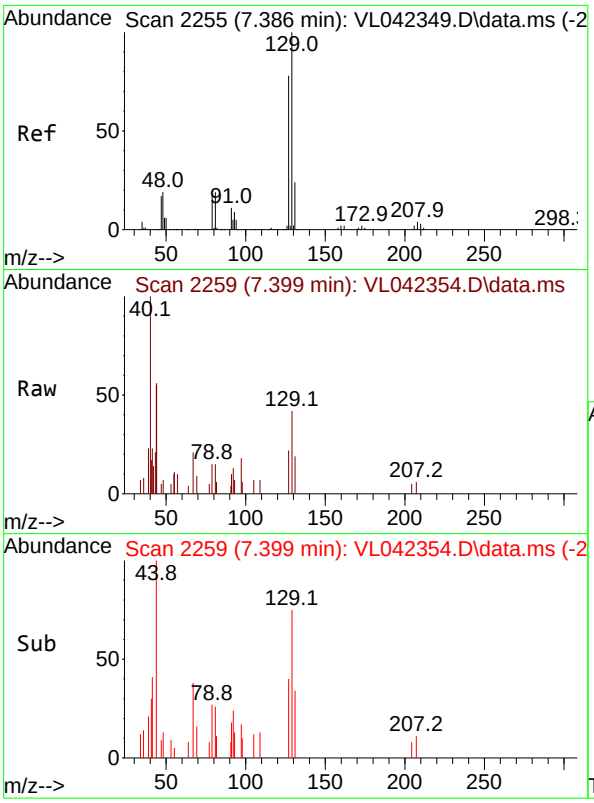




#47
1,1,2-Trichloroethane
Concen: 0.016 ppbv
RT: 6.590 min Scan# 2009
Delta R.T. 0.010 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 97 Resp: 225

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 149.5 | 72.8 | 109.2# |
| 85 | 27.8 | 44.2 | 66.4# |
| 99 | 0.0 | 47.9 | 71.9# |



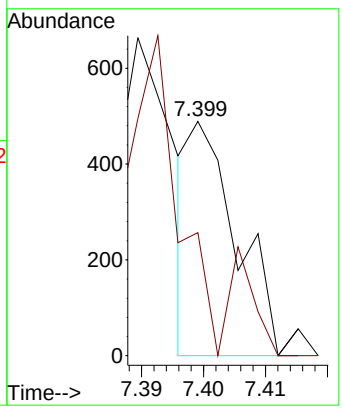


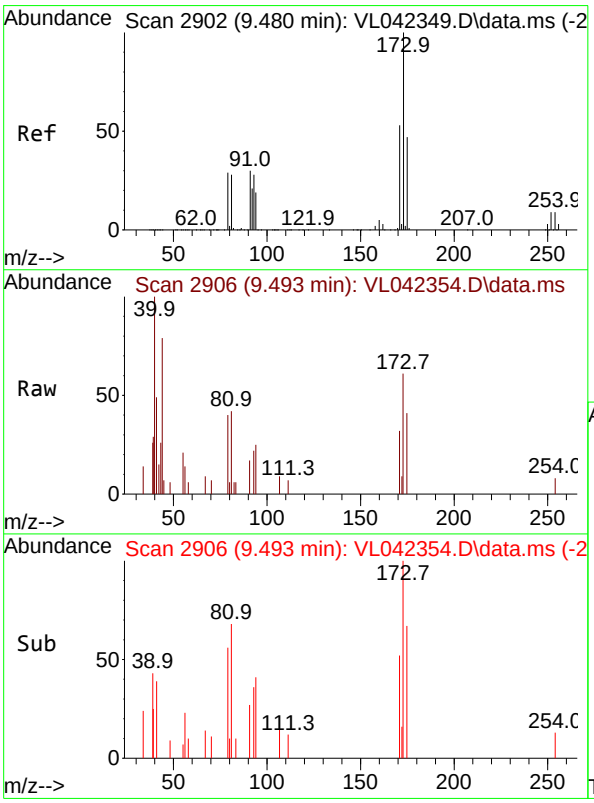

#48
Dibromochloromethane
Concen: 0.010 ppbv
RT: 7.399 min Scan# 2
Delta R.T. 0.013 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion:129 Resp: 258

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 0.0 | 39.1 | 117.3# |

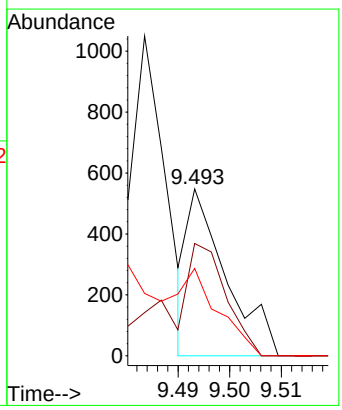


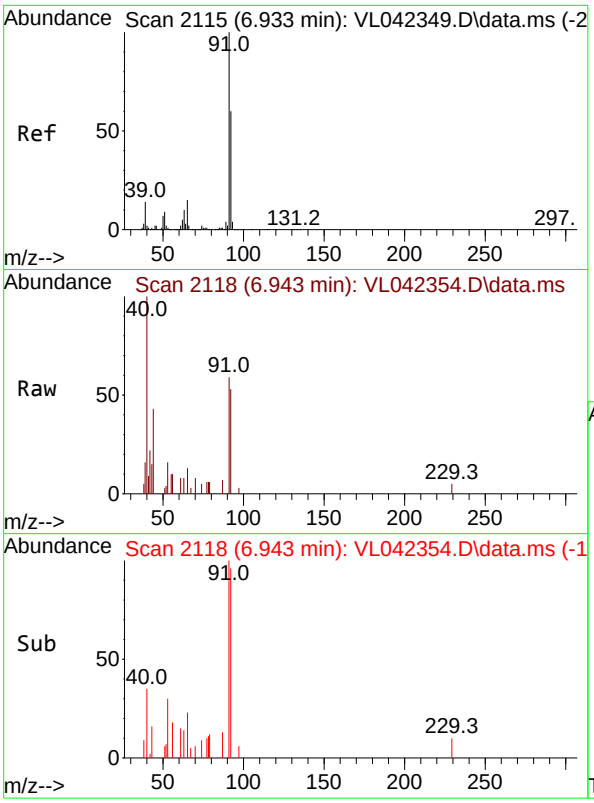




#49
Bromoform
Concen: 0.013 ppbv
RT: 9.493 min Scan# 2906
Delta R.T. 0.013 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:173 Resp: 285

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 145.3 | 38.2 | 57.2# |
| 171 | 11.9 | 40.9 | 61.3# |



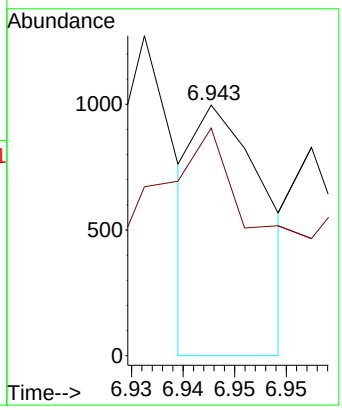


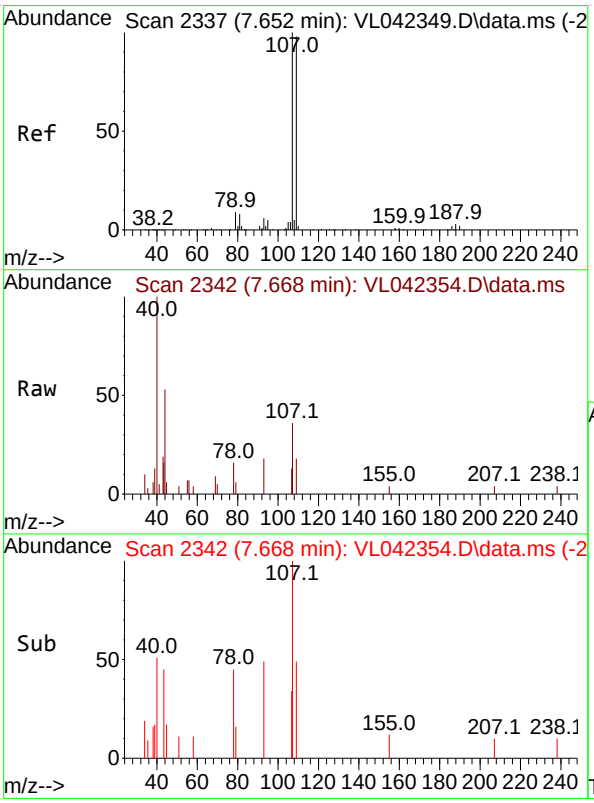

#53
Toluene
Concen: 0.010 ppbv
RT: 6.943 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion: 91 Resp: 464

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 289.2 | 48.2 | 72.4# |

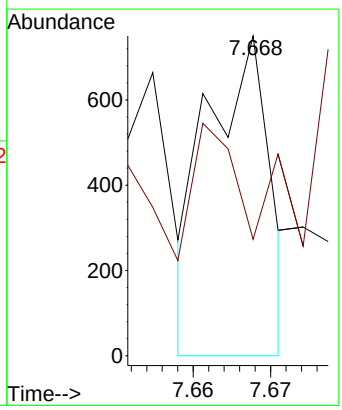


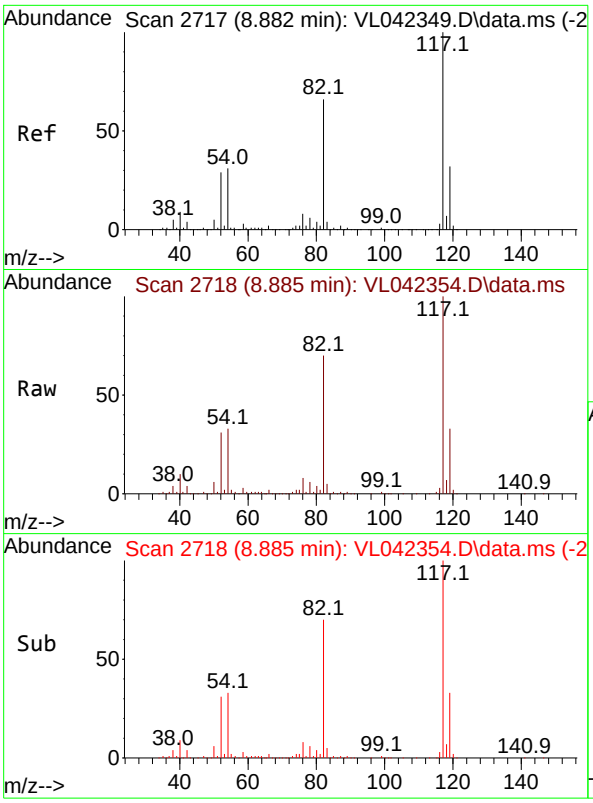




#54
1,2-Dibromoethane
Concen: 0.021 ppbv
RT: 7.668 min Scan# 2342
Delta R.T. 0.016 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:107 Resp: 422

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 10.4 | 78.2 | 117.4# |



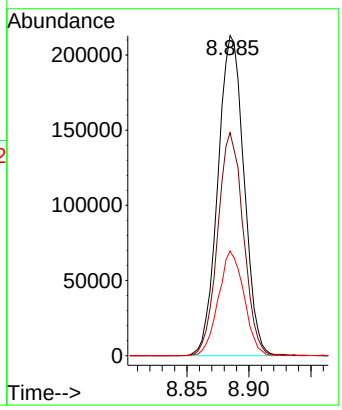


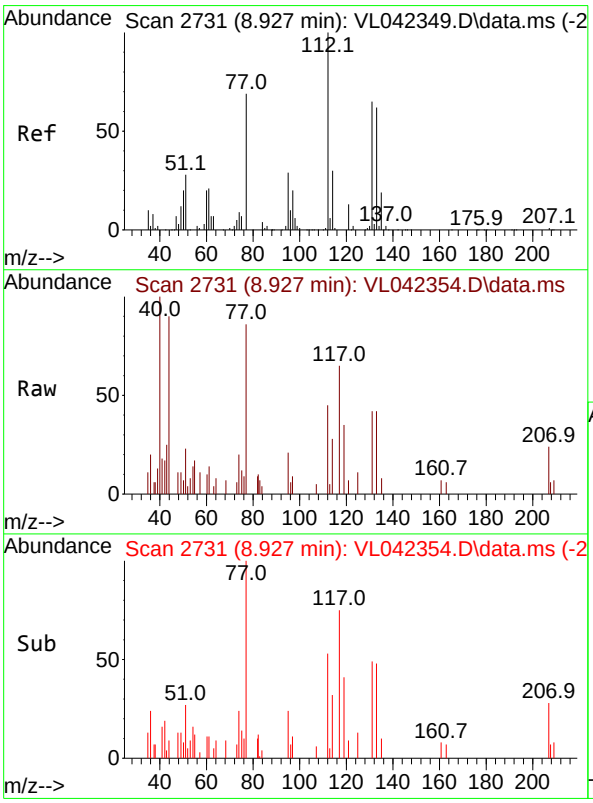

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion:117 Resp: 312999

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 68.5 | 57.8 | 86.6 |
| 119 | 32.2 | 25.2 | 37.8 |

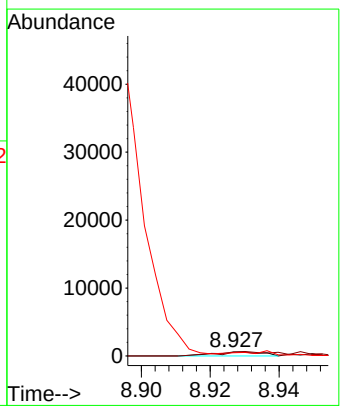


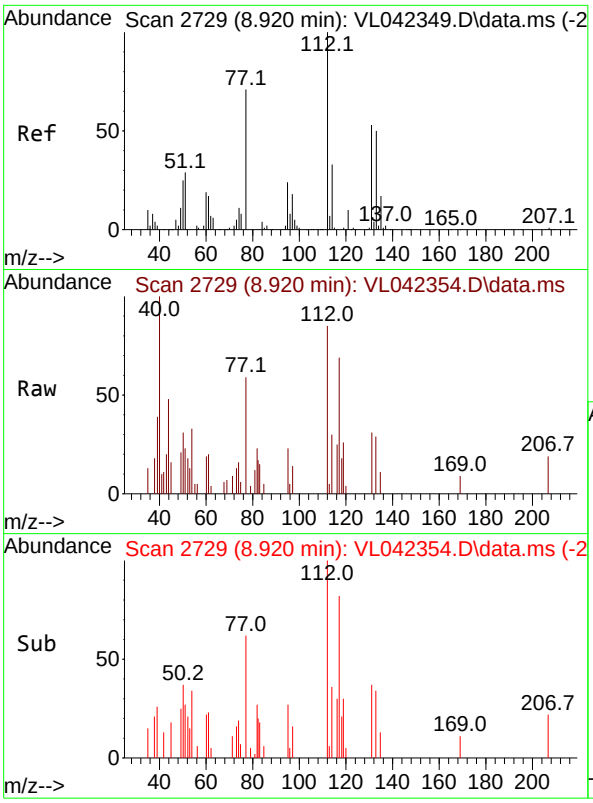




#56
1,1,1,2-Tetrachloroethane
Concen: 0.031 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:131 Resp: 589

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 185.9 | 78.3 | 117.5# |
| 119 | 17165.0 | 48.7 | 73.1# |



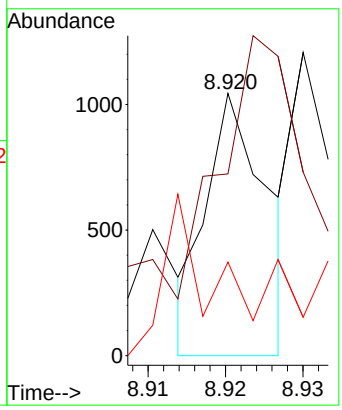


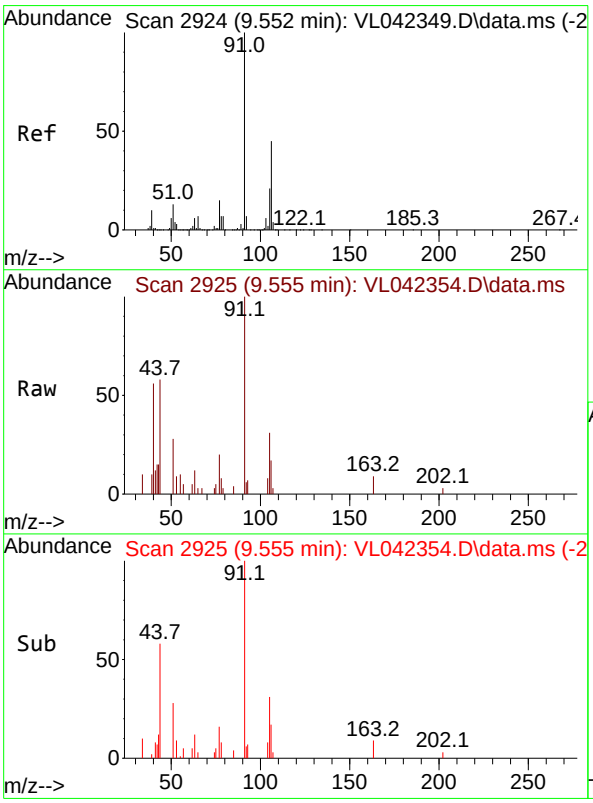

#57
Chlorobenzene
Concen: 0.017 ppbv
RT: 8.920 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion:112 Resp: 567

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 62.5 | 57.8 | 86.6 |
| 114 | 0.0 | 29.3 | 35.9# |

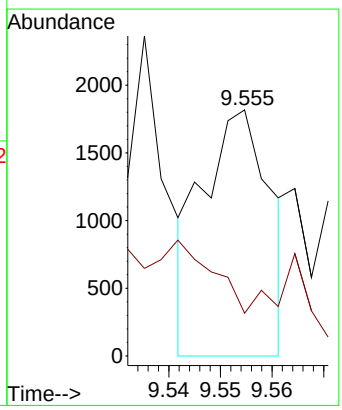


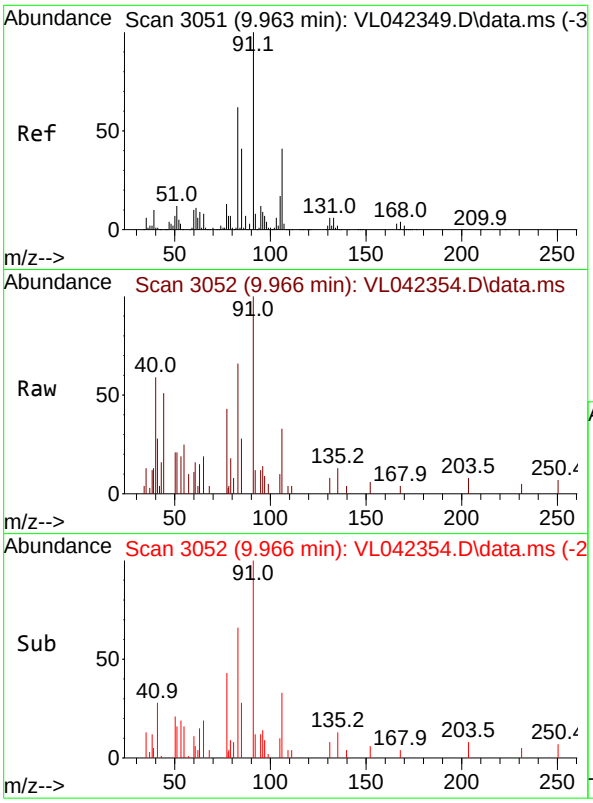




#59
m/p-Xylene
Concen: 0.033 ppbv
RT: 9.555 min Scan# 2925
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 91 Resp: 1648

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 0.0 | 35.4 | 53.2# |



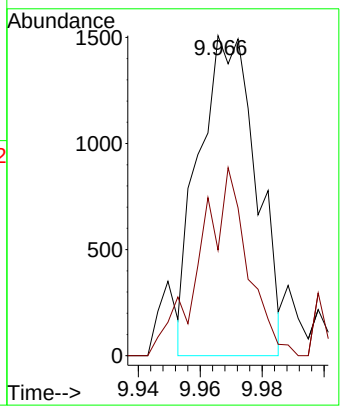


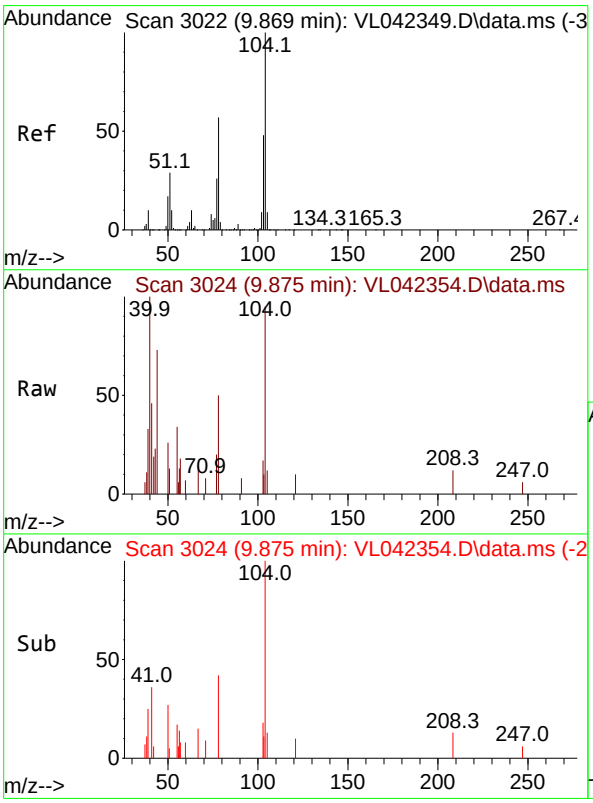

#60
o-Xylene
Concen: 0.039 ppbv
RT: 9.966 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion: 91 Resp: 1938

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 52.6 | 21.1 | 63.4 |

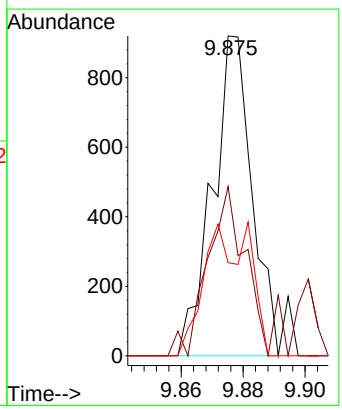


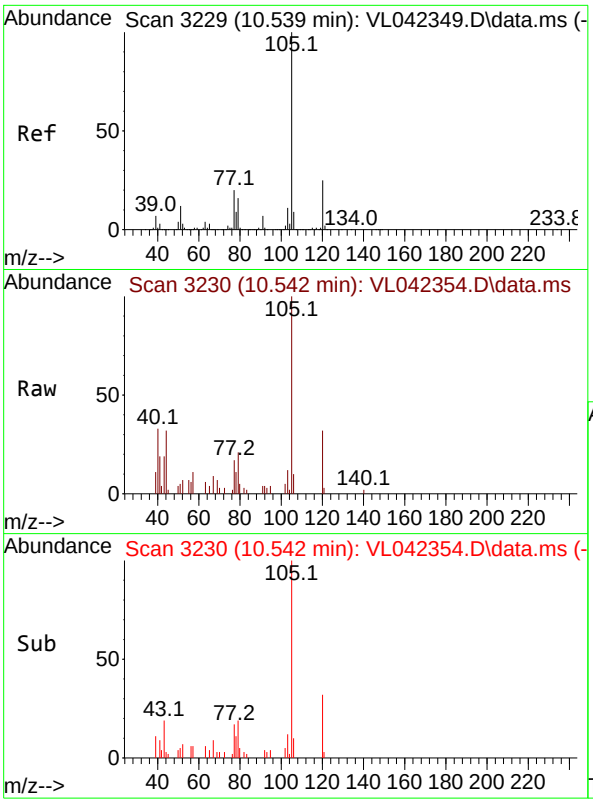




#61
Styrene
Concen: 0.034 ppbv
RT: 9.875 min Scan# 3024
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:104 Resp: 813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 64.9 | 44.6 | 66.8 |
| 103 | 47.1 | 37.4 | 56.0 |



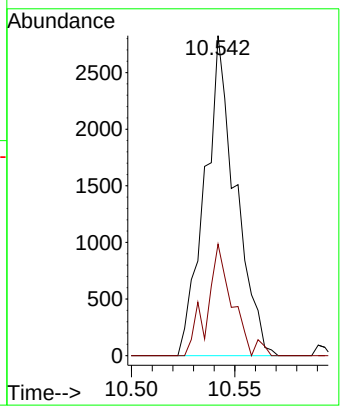


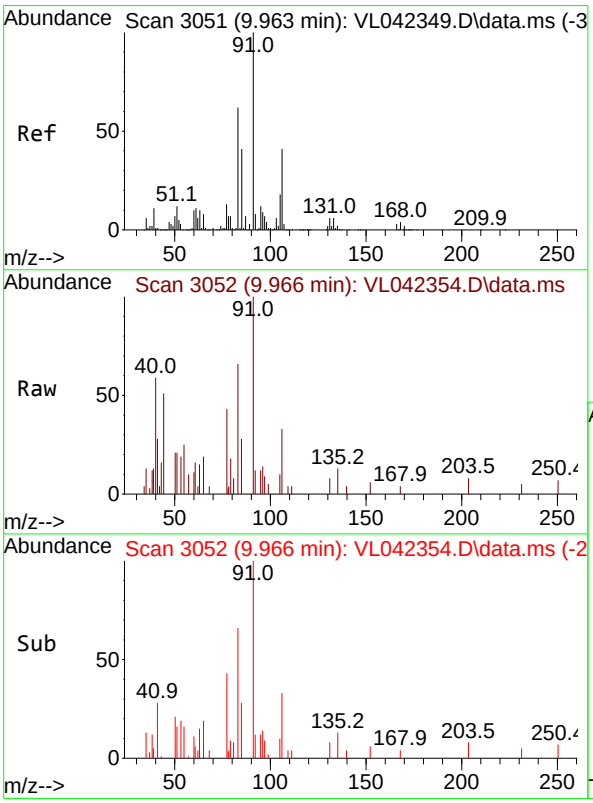

#62
Isopropylbenzene
Concen: 0.040 ppbv
RT: 10.542 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion:105 Resp: 2934

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 28.8 | 19.8 | 29.8 |

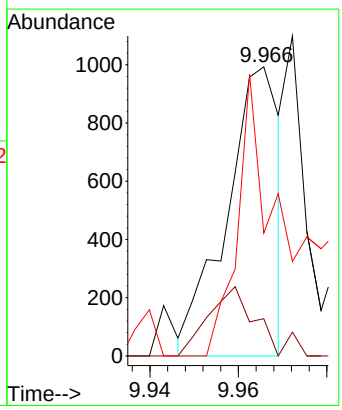


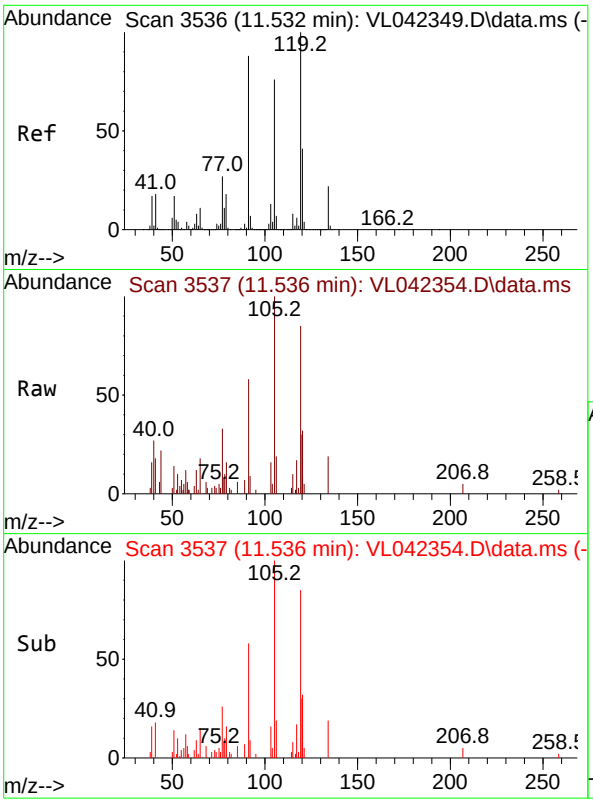




#63
1,1,2,2-Tetrachloroethane
Concen: 0.025 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 83 Resp: 826

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 22.3 | 4.5 | 13.7# |
| 85 | 98.2 | 32.4 | 97.0# |



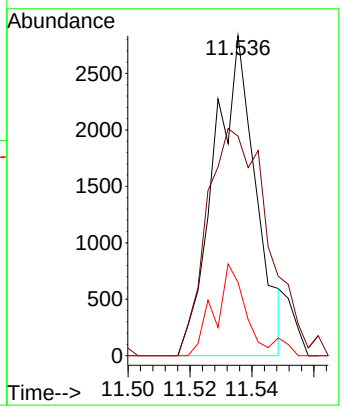


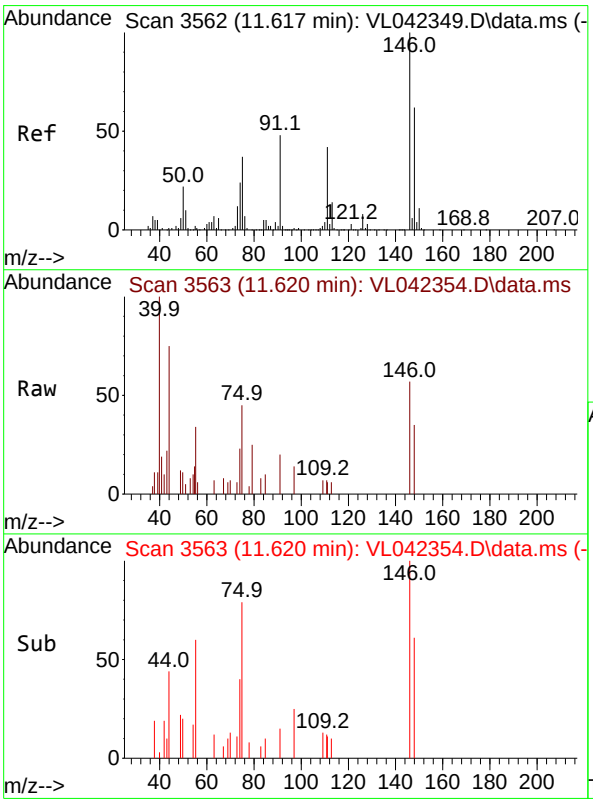

#65
tert-Butylbenzene
Concen: 0.039 ppbv
RT: 11.536 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion:119 Resp: 2656

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 104.4 | 74.6 | 111.8 |
| 134 | 22.5 | 18.8 | 28.2 |

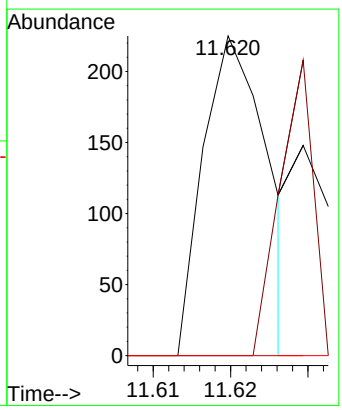


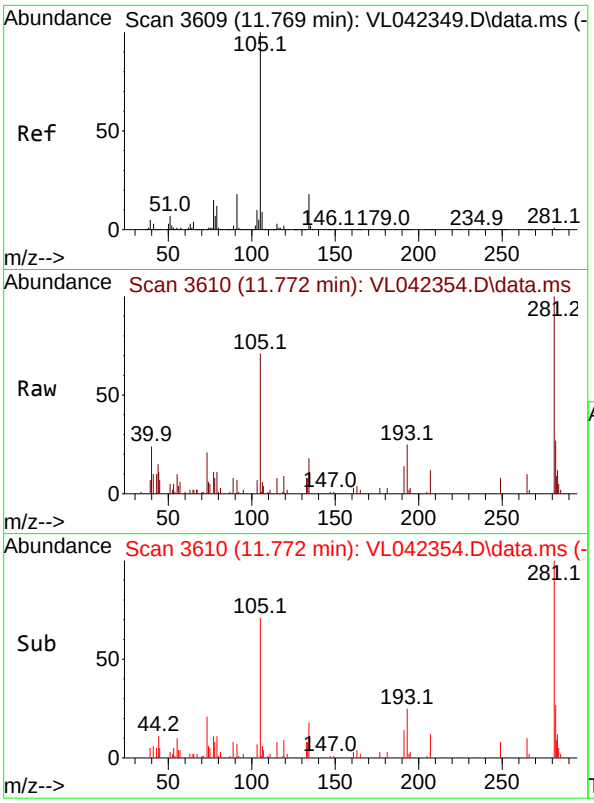




#66
Benzyl Chloride
Concen: 0.017 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 91 Resp: 130

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 0.0 | 11.8 | 17.6# |
| 128 | 0.0 | 4.5 | 6.7# |



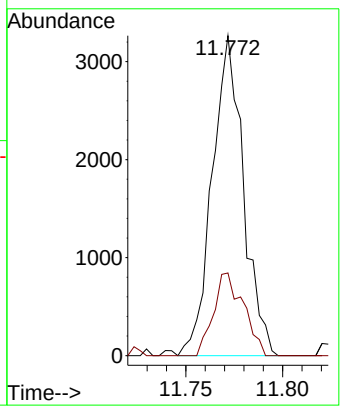


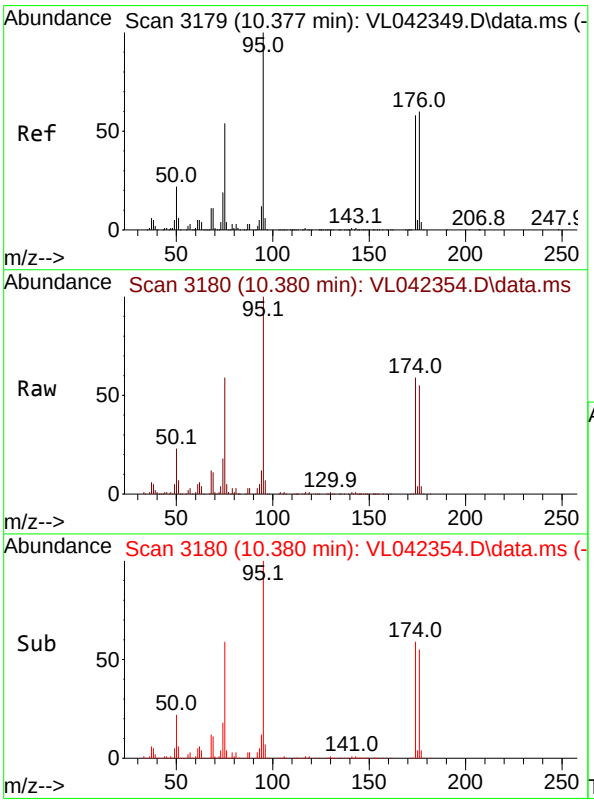

#67
sec-Butylbenzene
Concen: 0.039 ppbv
RT: 11.772 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion:105 Resp: 3658

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 24.8 | 14.6 | 21.8# |

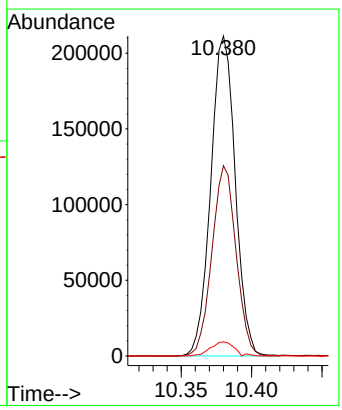


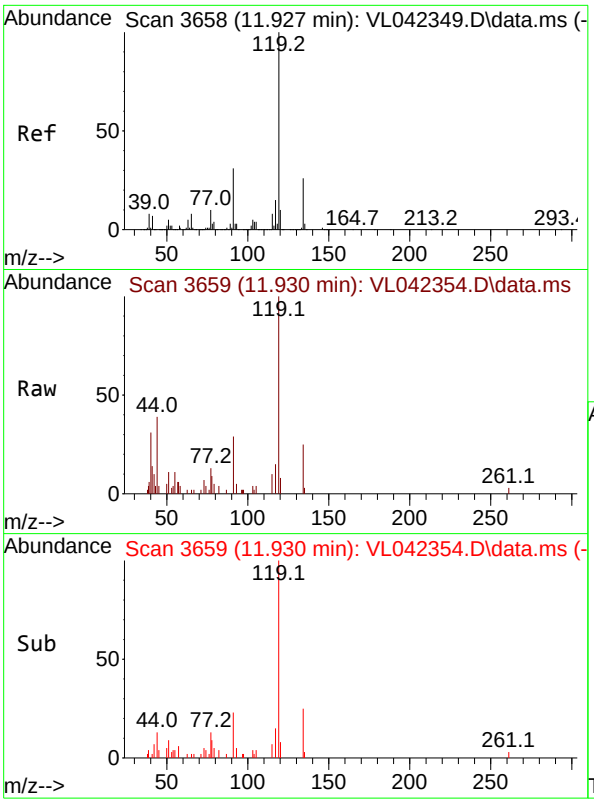




#68
1-Bromo-4-Fluorobenzene
Concen: 9.962 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 95 Resp: 256230

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 58.6 | 48.5 | 72.7 |
| 175 | 4.3 | 3.7 | 5.5 |



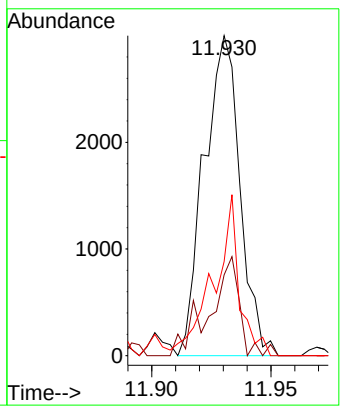


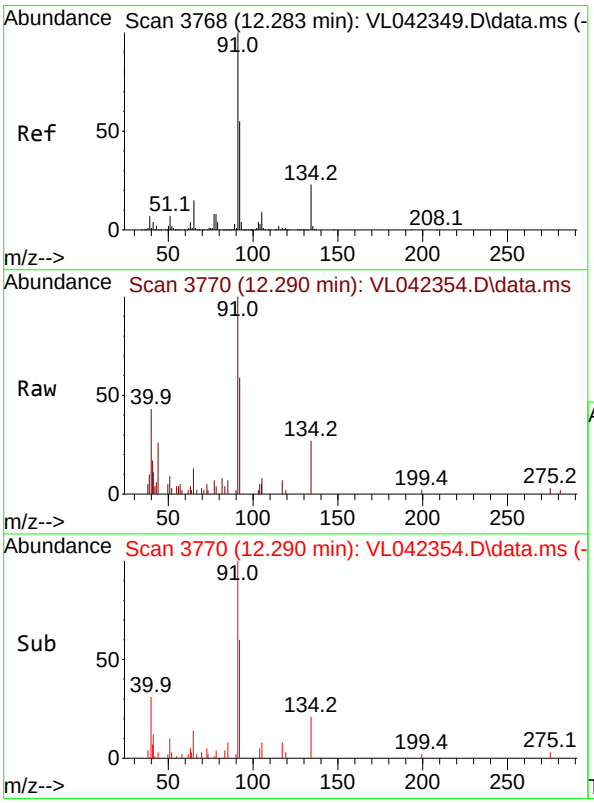

#69
p-Isopropyltoluene
Concen: 0.038 ppbv
RT: 11.930 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion:119 Resp: 3139

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.9 | 20.0 | 30.0 |
| 91 | 35.7 | 24.4 | 36.6 |

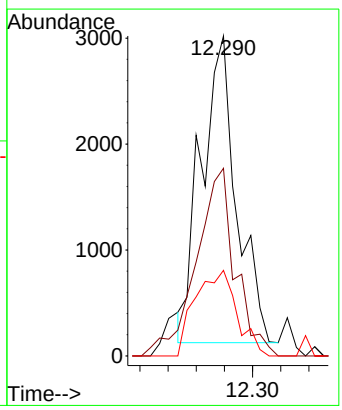


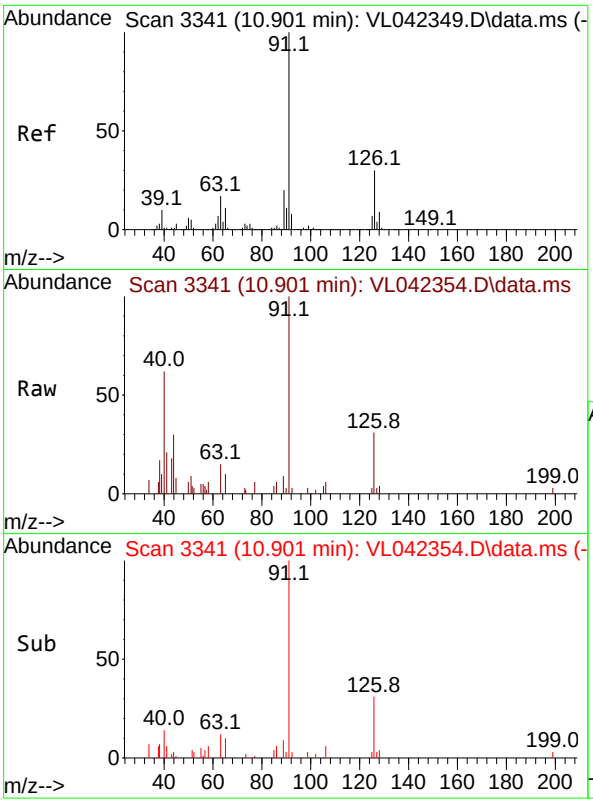




#70
n-Butylbenzene
Concen: 0.029 ppbv
RT: 12.290 min Scan# 3770
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 91 Resp: 2516

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 67.4 | 44.2 | 66.4# |
| 134 | 34.4 | 18.2 | 27.4# |



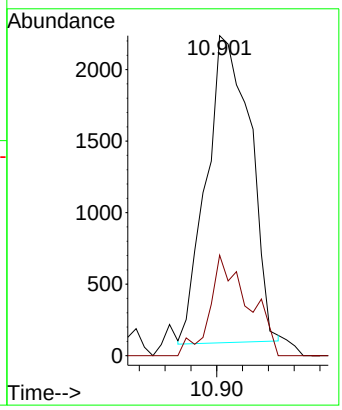


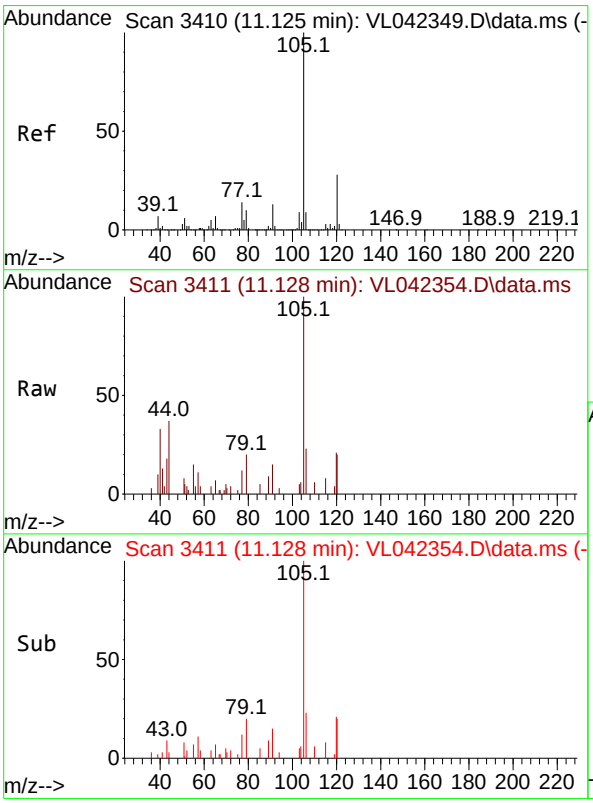

#71
2-Chlorotoluene
Concen: 0.044 ppbv
RT: 10.901 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion: 91 Resp: 2537

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 28.7 | 11.4 | 45.4 |

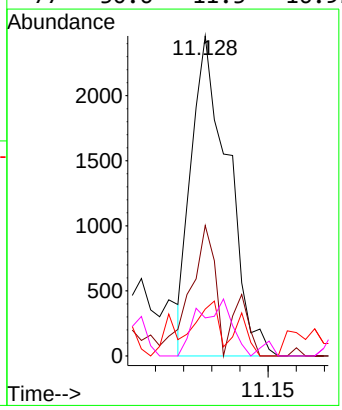


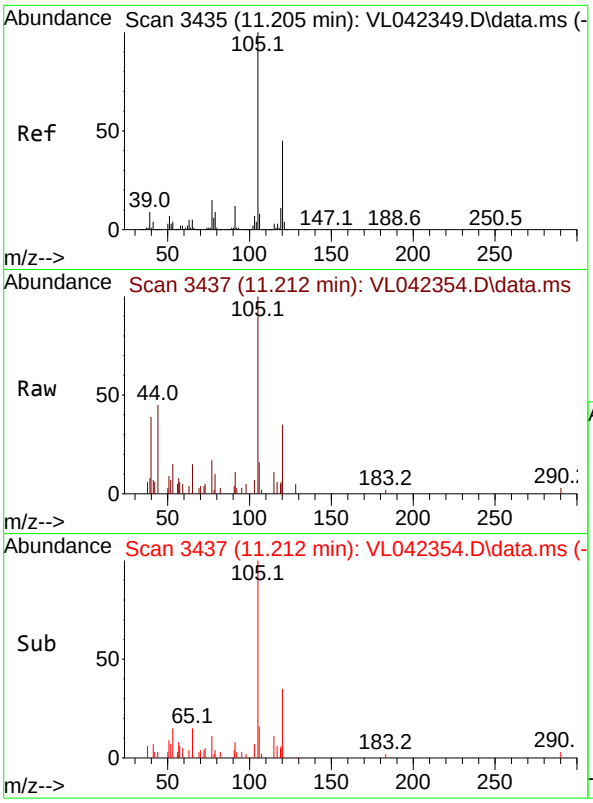




#72
4-Ethyltoluene
Concen: 0.036 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:105 Resp: 2221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.5 | 23.2 | 34.8# |
| 91 | 8.3 | 10.4 | 15.6# |
| 77 | 30.6 | 11.3 | 16.9# |



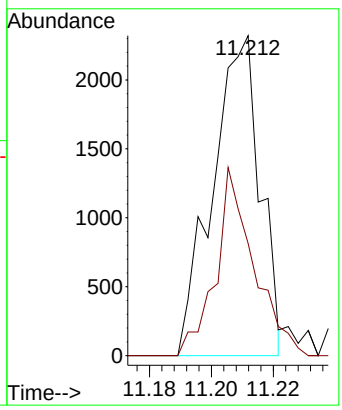


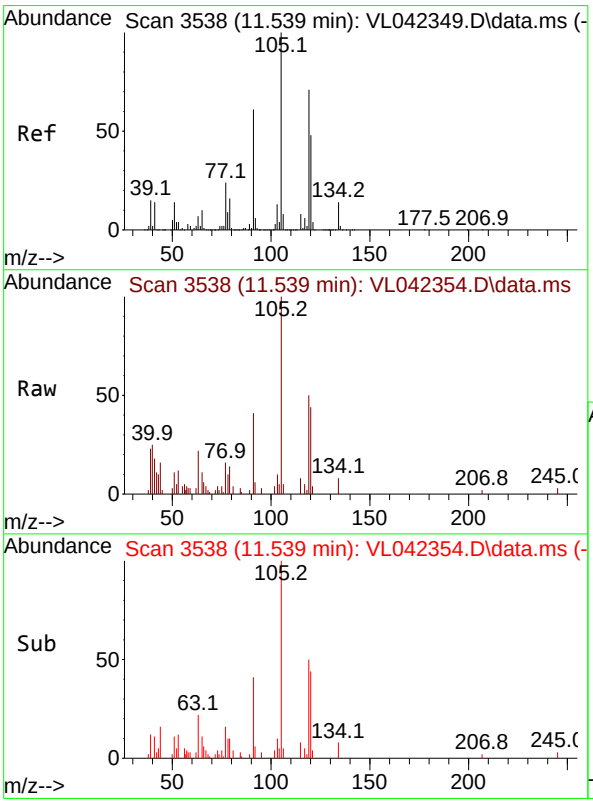

#73
1,3,5-Trimethylbenzene
Concen: 0.046 ppbv
RT: 11.212 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion:105 Resp: 2473

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 35.1 | 35.6 | 53.4# |

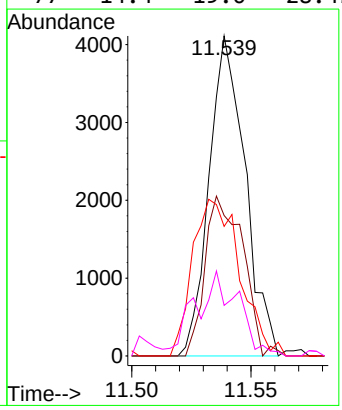


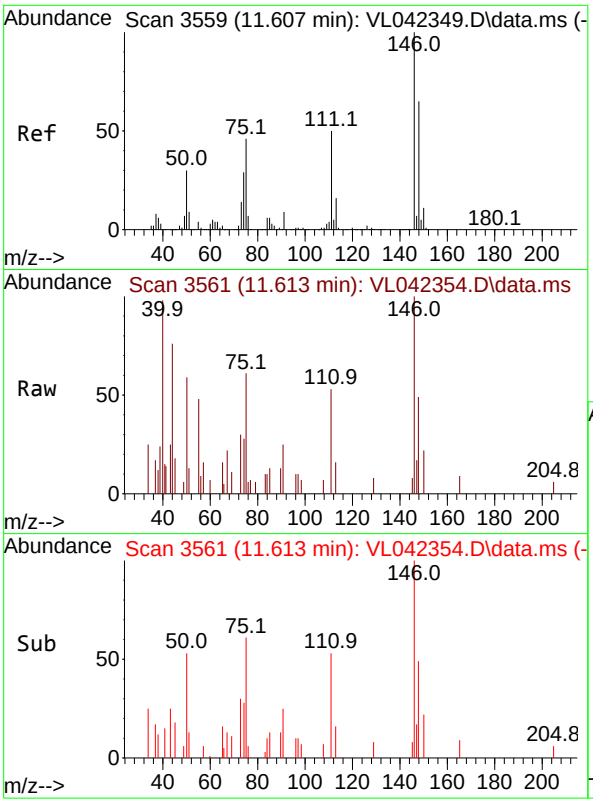




#74
1,2,4-Trimethylbenzene
Concen: 0.068 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:105 Resp: 4320

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 43.9 | 38.1 | 57.1 |
| 91 | 36.2 | 48.8 | 73.2# |
| 77 | 14.4 | 19.0 | 28.4# |



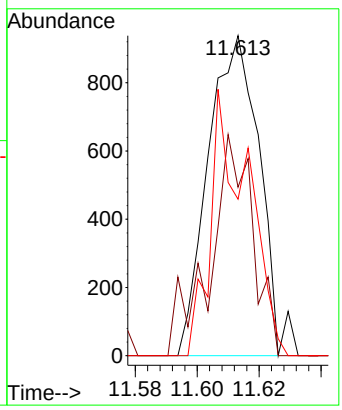


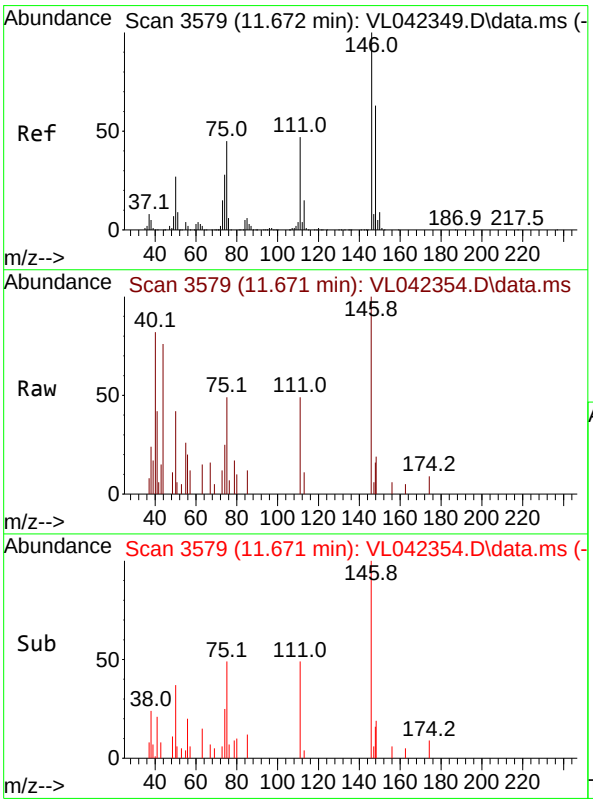

#75
1,3-Dichlorobenzene
Concen: 0.032 ppbv
RT: 11.613 min Scan# 3
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion:146 Resp: 1056

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 61.1 | 24.3 | 72.8 |
| 148 | 62.4 | 31.6 | 94.8 |

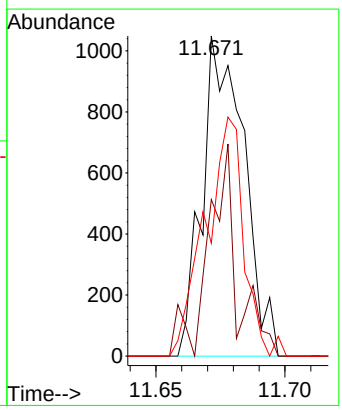


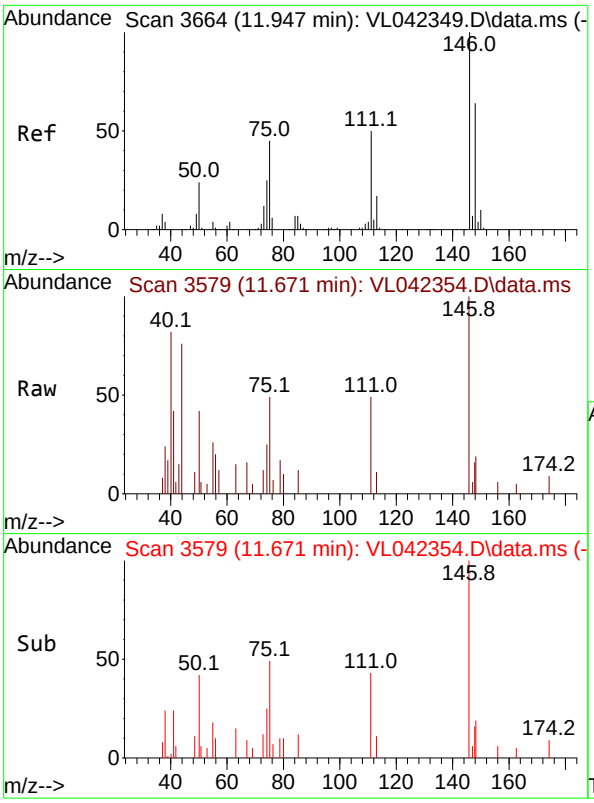




#76
1,4-Dichlorobenzene
Concen: 0.036 ppbv
RT: 11.671 min Scan# 3579
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:146 Resp: 1180

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 45.4 | 24.2 | 72.6 |
| 148 | 68.3 | 32.1 | 96.5 |



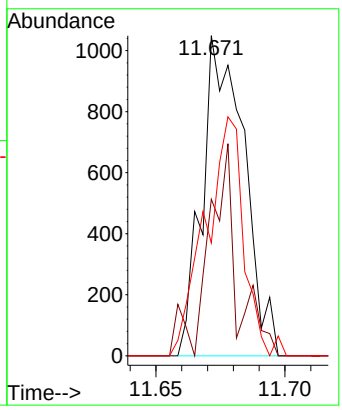


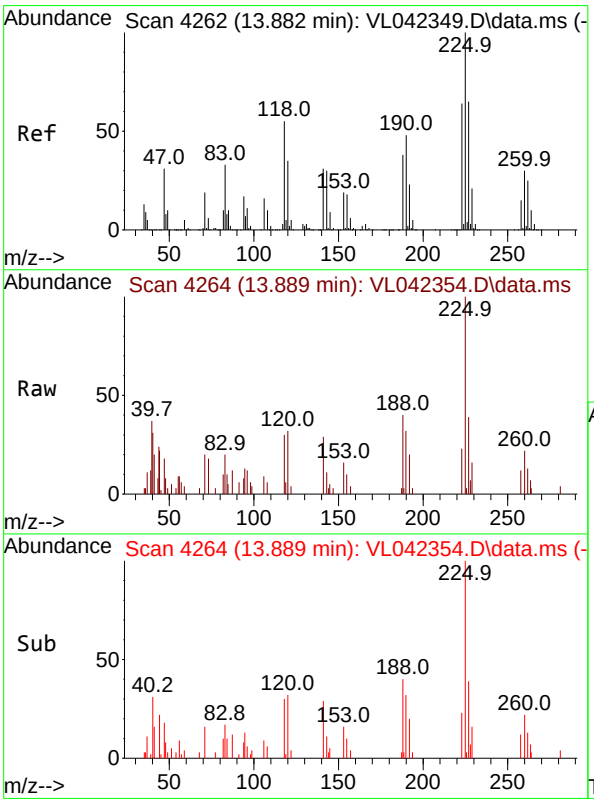

#77
1,2-Dichlorobenzene
Concen: 0.037 ppbv
RT: 11.671 min Scan# 3
Delta R.T. -0.275 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion:146 Resp: 1180

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 45.4 | 25.3 | 75.9 |
| 148 | 68.3 | 31.5 | 94.5 |

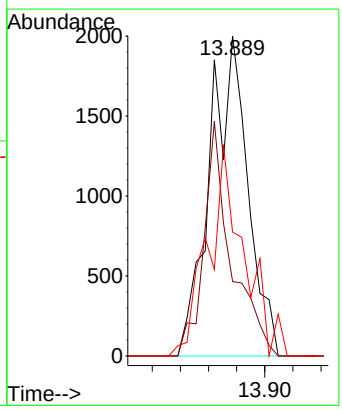


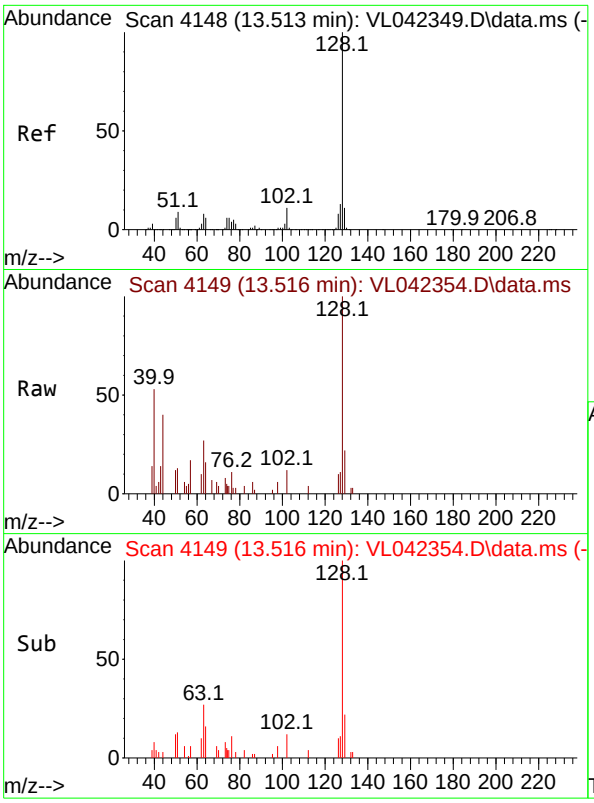




#78
Hexachloro-1,3-Butadiene
Concen: 0.058 ppbv
RT: 13.889 min Scan# 4264
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:225 Resp: 1879

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 52.2 | 50.3 | 75.5 |
| 227 | 62.5 | 51.5 | 77.3 |



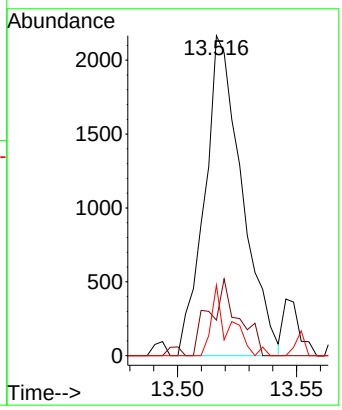


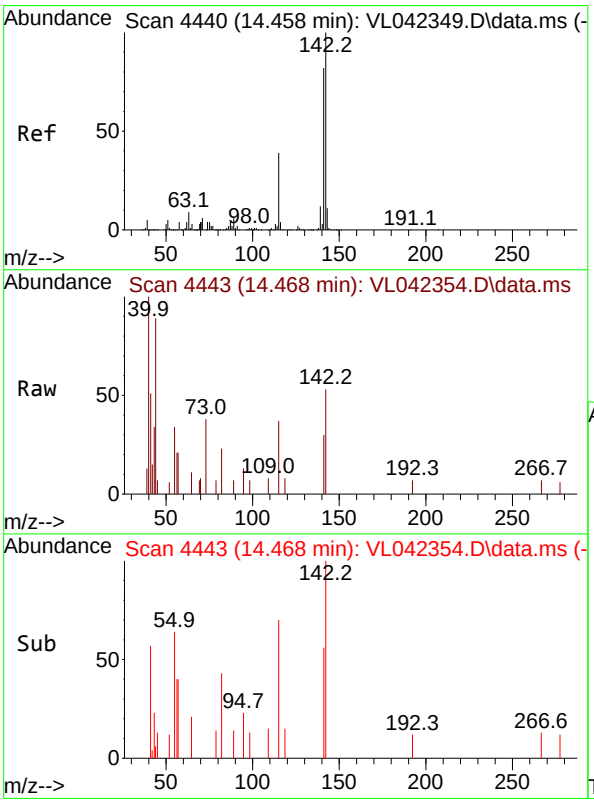

#79
Naphthalene
Concen: 0.031 ppbv
RT: 13.516 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion:128 Resp: 2354

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 11.1 | 10.6 | 15.8 |
| 129 | 22.1 | 8.6 | 12.8# |

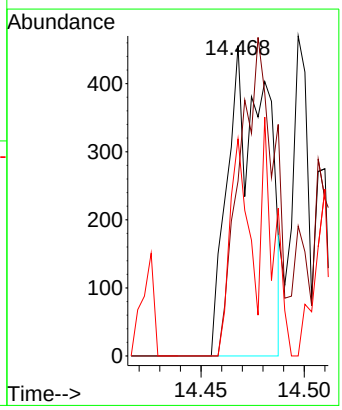


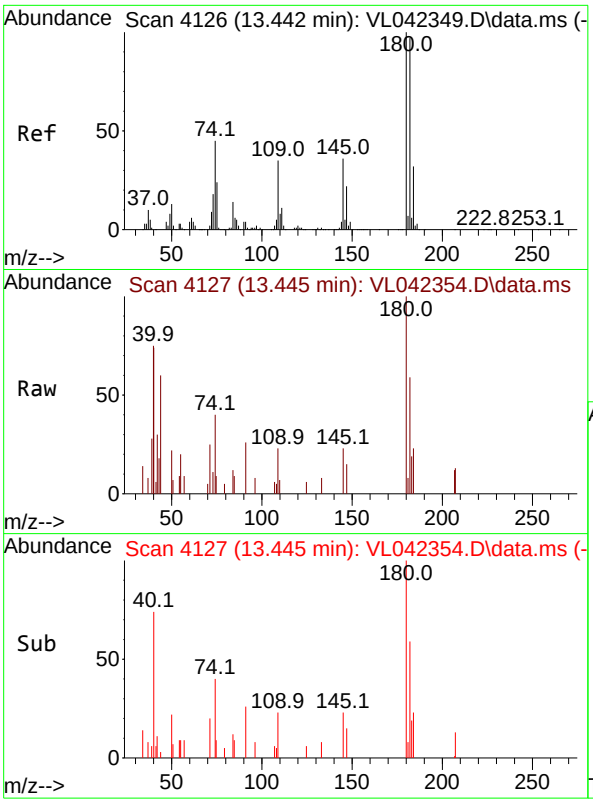




#80
Naphthalene,2-methyl-
Concen: 0.014 ppbv
RT: 14.468 min Scan# 4443
Delta R.T. 0.010 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:142 Resp: 594

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 136.0 | 66.8 | 100.2# |
| 115 | 59.1 | 33.4 | 50.2# |



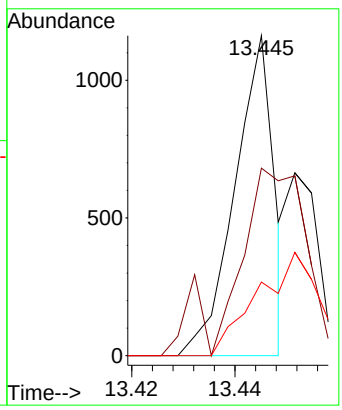



#81
1,2,4-Trichlorobenzene
Concen: 0.019 ppbv
RT: 13.445 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC0.03

Tgt Ion:180 Resp: 614

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 116.4 | 76.8 | 115.2# |
| 184 | 0.0 | 24.6 | 36.8# |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042355.D
Acq On : 17 Apr 2025 12:54
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Quant Time: Apr 18 01:31:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.787 | 49 | 116071 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.959 | 114 | 332080 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.882 | 117 | 308463 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.374 | 95 | 254437 | 10.038 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 100.400% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.499 | 85 | 292784 | 14.277 | ppbv | 99 |
| 3) Chlorodifluoromethane | 1.477 | 51 | 280042 | 14.341 | ppbv | 98 |
| 4) Chloromethane | 1.532 | 50 | 115775 | 14.266 | ppbv | 99 |
| 5) Vinyl Chloride | 1.580 | 62 | 112650 | 12.752 | ppbv | 100 |
| 6) Bromomethane | 1.667 | 94 | 52805 | 13.800 | ppbv | 88 |
| 7) Chloroethane | 1.703 | 64 | 44347 | 13.881 | ppbv | 98 |
| 8) Dichlorotetrafluoroethane | 1.554 | 85 | 255029 | 14.484 | ppbv | 98 |
| 9) Propene | 1.483 | 41 | 123102 | 13.842 | ppbv | 95 |
| 10) Heptane | 4.979 | 43 | 336134 | 14.047 | ppbv | 100 |
| 11) Trichlorofluoromethane | 1.875 | 101 | 278059 | 14.258 | ppbv | 99 |
| 12) 1,1,2-Trichlorotrifluo... | 2.137 | 101 | 230366 | 14.447 | ppbv | 99 |
| 13) Ethanol | 1.719 | 45 | 6324 | 8.702 | ppbv | 76 |
| 14) Bromoethene | 1.781 | 108 | 84851 | 14.117 | ppbv | 99 |
| 15) Acetone | 1.833 | 43 | 229086 | 12.056 | ppbv | 99 |
| 16) 1,3-Butadiene | 1.609 | 39 | 117997 | 13.224 | ppbv | 96 |
| 17) tert-Butyl alcohol | 2.040 | 59 | 320605 | 13.615 | ppbv | 99 |
| 18) 1,1-Dichloroethene | 2.033 | 96 | 107666 | 14.045 | ppbv | 99 |
| 19) Isopropyl Alcohol | 1.884 | 45 | 139004 | 13.169 | ppbv | 94 |
| 20) Methylene Chloride | 2.059 | 84 | 91093 | 12.241 | ppbv | 90 |
| 21) Allyl Chloride | 2.095 | 41 | 187995 | 14.329 | ppbv | 99 |
| 22) trans-1,2-Dichloroethene | 2.341 | 96 | 118492 | 13.970 | ppbv | 94 |
| 23) Vinyl Acetate | 2.460 | 43 | 106135 | 13.799 | ppbv # | 98 |
| 24) 1,1-Dichloroethane | 2.409 | 63 | 235466 | 14.615 | ppbv | 99 |
| 25) Ethyl Acetate | 2.836 | 43 | 663644 | 14.166 | ppbv | 100 |
| 26) Hexane | 2.826 | 57 | 260975 | 13.765 | ppbv | 97 |
| 27) Carbon Disulfide | 2.150 | 76 | 299098 | 14.734 | ppbv | 97 |
| 28) Methyl tert-Butyl Ether | 2.438 | 73 | 174855 | 14.076 | ppbv | 95 |
| 29) Chloroform | 2.849 | 83 | 385686 | 14.393 | ppbv | 99 |
| 30) Cyclohexane | 3.855 | 84 | 217375 | 14.238 | ppbv | 98 |
| 31) cis-1,2-Dichloroethene | 2.719 | 61 | 264972 | 14.700 | ppbv | 98 |
| 32) 1,1,1-Trichloroethane | 3.367 | 97 | 412537 | 14.357 | ppbv | 99 |
| 34) 2-Butanone | 2.558 | 43 | 367315 | 13.986 | ppbv | 100 |
| 35) Carbon Tetrachloride | 3.762 | 117 | 409916 | 13.639 | ppbv | 94 |
| 36) Benzene | 3.655 | 78 | 522156 | 14.578 | ppbv | 97 |
| 37) 1,2-Dichloroethane | 3.218 | 62 | 319517 | 14.863 | ppbv | 100 |
| 38) Trichloroethene | 4.548 | 130 | 208508 | 13.278 | ppbv | 98 |
| 39) 1,2-Dichloropropane | 4.312 | 63 | 189697 | 14.201 | ppbv | 97 |
| 40) 1,4-Dioxane | 4.580 | 88 | 92114 | 12.733 | ppbv # | 95 |
| 41) Tetrahydrofuran | 3.053 | 42 | 214949 | 14.166 | ppbv | 98 |
| 42) Bromodichloromethane | 4.490 | 83 | 442735 | 14.798 | ppbv | 95 |
| 43) Methyl Methacrylate | 4.878 | 69 | 219757 | 13.670 | ppbv | 95 |
| 44) 2,2,4-Trimethylpentane | 4.642 | 57 | 893529 | 14.425 | ppbv | 99 |
| 45) t-1,3-Dichloropropene | 6.412 | 75 | 244470 | 14.810 | ppbv | 94 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042355.D
Acq On : 17 Apr 2025 12:54
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Quant Time: Apr 18 01:31:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.600 | 75 | 300145 | 14.878 | ppbv | | 90 |
| 47) 1,1,2-Trichloroethane | 6.581 | 97 | 198874 | 14.615 | ppbv | | 98 |
| 48) Dibromochloromethane | 7.390 | 129 | 362887 | 15.105 | ppbv | | 98 |
| 49) Bromoform | 9.484 | 173 | 312282 | 14.865 | ppbv | | 99 |
| 50) 4-Methyl-2-Pentanone | 5.749 | 43 | 563658 | 12.889 | ppbv | | 99 |
| 51) 2-Hexanone | 7.435 | 43 | 467001 | 11.834 | ppbv | # | 98 |
| 52) Tetrachloroethene | 8.225 | 164 | 180631 | 13.046 | ppbv | | 97 |
| 53) Toluene | 6.933 | 91 | 619420 | 14.411 | ppbv | | 99 |
| 54) 1,2-Dibromoethane | 7.652 | 107 | 280071 | 14.442 | ppbv | | 92 |
| 56) 1,1,1,2-Tetrachloroethane | 8.927 | 131 | 268626 | 14.389 | ppbv | | 97 |
| 57) Chlorobenzene | 8.921 | 112 | 454017 | 14.151 | ppbv | | 97 |
| 58) Ethyl Benzene | 9.354 | 91 | 874424 | 14.308 | ppbv | | 100 |
| 59) m/p-Xylene | 9.552 | 91 | 645250 | 13.067 | ppbv | # | 21 |
| 60) o-Xylene | 9.963 | 91 | 689246 | 13.902 | ppbv | | 99 |
| 61) Styrene | 9.872 | 104 | 339508 | 14.347 | ppbv | | 99 |
| 62) Isopropylbenzene | 10.539 | 105 | 1018968 | 13.999 | ppbv | | 100 |
| 63) 1,1,2,2-Tetrachloroethane | 9.963 | 83 | 412898 | 12.816 | ppbv | | 100 |
| 64) n-propylbenzene | 10.989 | 120 | 260812 | 14.255 | ppbv | | 94 |
| 65) tert-Butylbenzene | 11.533 | 119 | 899720 | 13.449 | ppbv | | 93 |
| 66) Benzyl Chloride | 11.617 | 91 | 96016 | 13.061 | ppbv | | 96 |
| 67) sec-Butylbenzene | 11.769 | 105 | 1253263 | 13.468 | ppbv | | 100 |
| 69) p-Isopropyltoluene | 11.928 | 119 | 1081850 | 13.382 | ppbv | | 99 |
| 70) n-Butylbenzene | 12.284 | 91 | 1117042 | 13.266 | ppbv | | 100 |
| 71) 2-Chlorotoluene | 10.902 | 91 | 806728 | 14.131 | ppbv | | 100 |
| 72) 4-Ethyltoluene | 11.125 | 105 | 848077 | 13.992 | ppbv | | 99 |
| 73) 1,3,5-Trimethylbenzene | 11.206 | 105 | 726558 | 13.578 | ppbv | | 99 |
| 74) 1,2,4-Trimethylbenzene | 11.539 | 105 | 785772 | 12.572 | ppbv | | 97 |
| 75) 1,3-Dichlorobenzene | 11.610 | 146 | 444086 | 13.670 | ppbv | | 99 |
| 76) 1,4-Dichlorobenzene | 11.672 | 146 | 450662 | 13.802 | ppbv | | 98 |
| 77) 1,2-Dichlorobenzene | 11.947 | 146 | 427372 | 13.529 | ppbv | | 99 |
| 78) Hexachloro-1,3-Butadiene | 13.883 | 225 | 404441 | 12.679 | ppbv | | 100 |
| 79) Naphthalene | 13.514 | 128 | 944085 | 12.632 | ppbv | | 98 |
| 80) Naphthalene,2-methyl- | 14.459 | 142 | 540339 | 12.686 | ppbv | | 99 |
| 81) 1,2,4-Trichlorobenzene | 13.442 | 180 | 429982 | 13.398 | ppbv | | 98 |

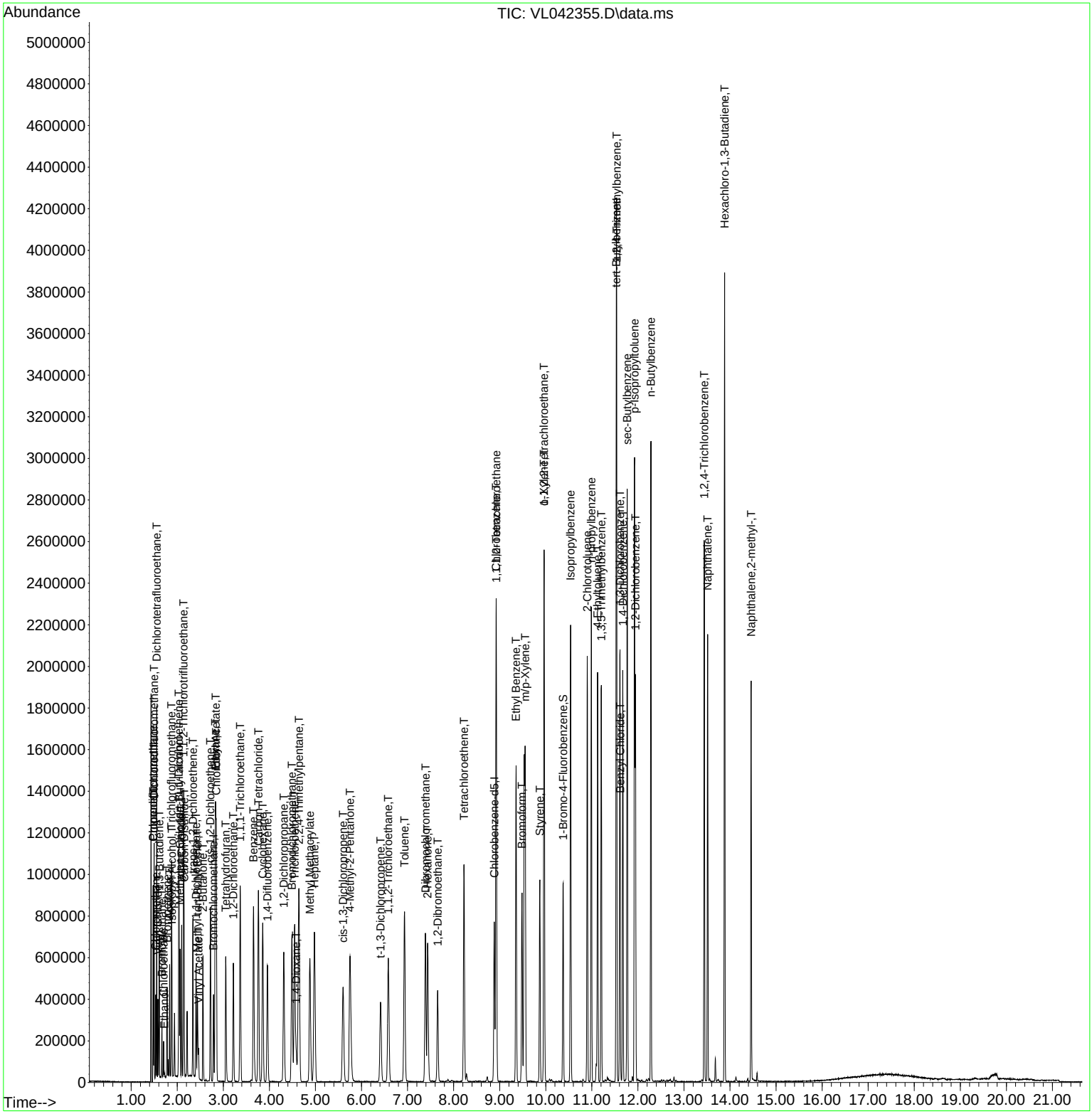
(#) = qualifier out of range (m) = manual integration (+) = signals summed

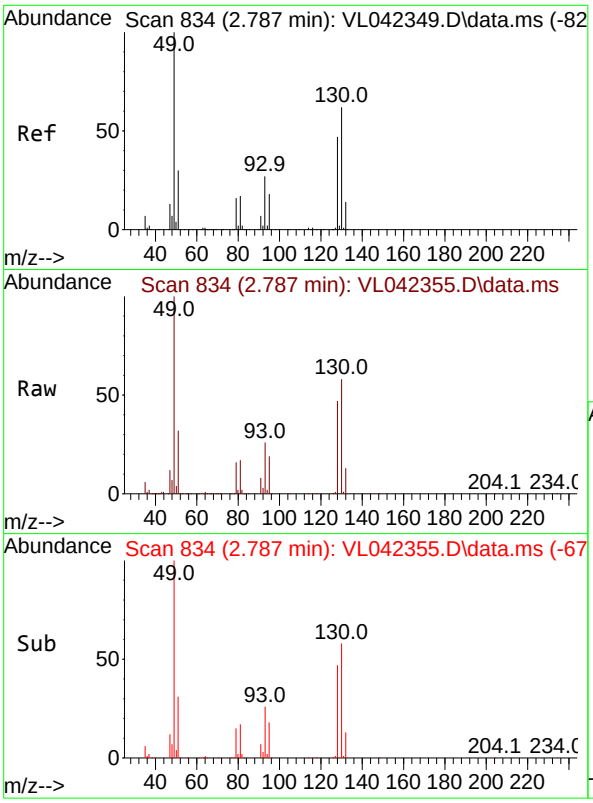
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042355.D
Acq On : 17 Apr 2025 12:54
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Quant Time: Apr 18 01:31:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration



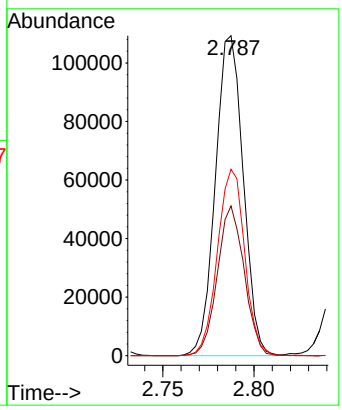


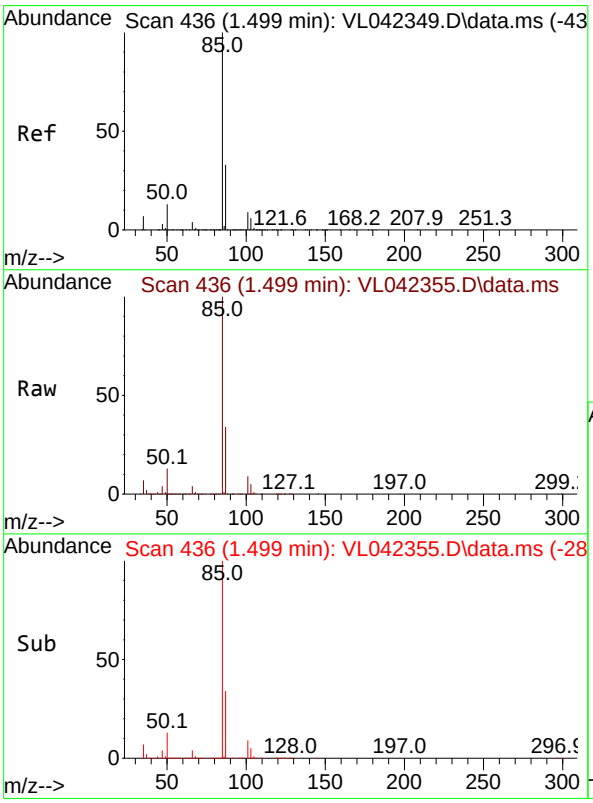

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion: 49 Resp: 116071

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 45.1 | 22.8 | 68.4 |
| 130 | 57.1 | 29.3 | 88.0 |

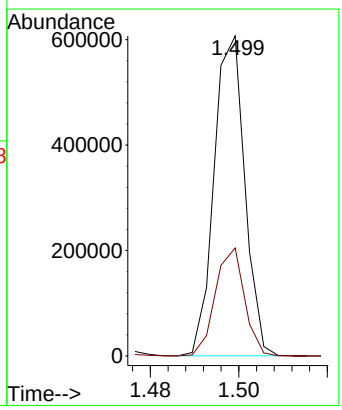


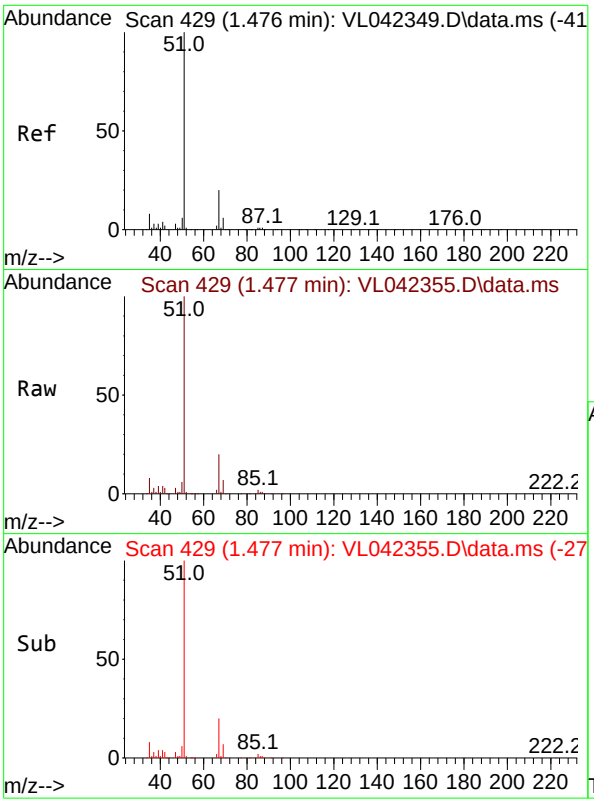




#2
Dichlorodifluoromethane
Concen: 14.277 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 85 Resp: 292784

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.8 | 26.6 | 39.8 |



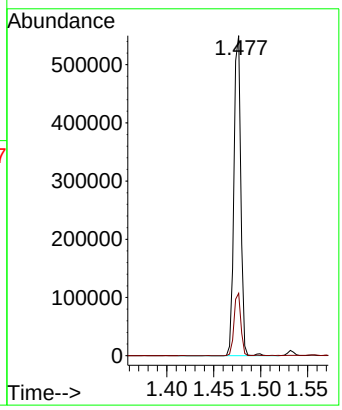


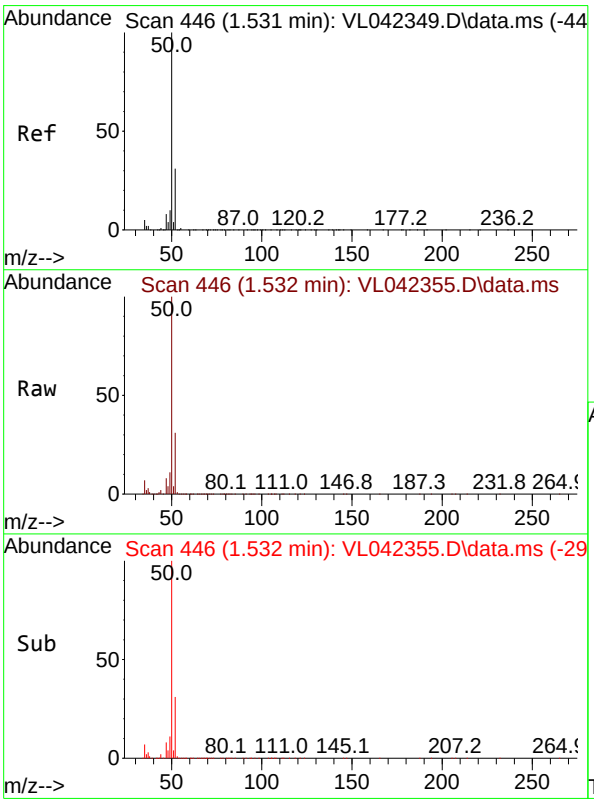

#3
Chlorodifluoromethane
Concen: 14.341 ppbv
RT: 1.477 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion: 51 Resp: 280042

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 19.5 | 16.2 | 24.4 |

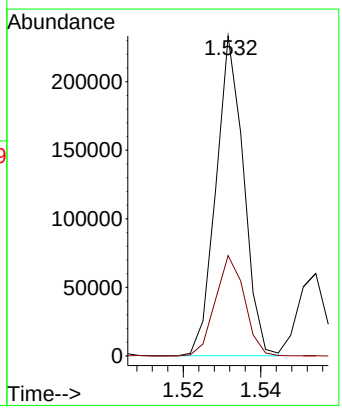


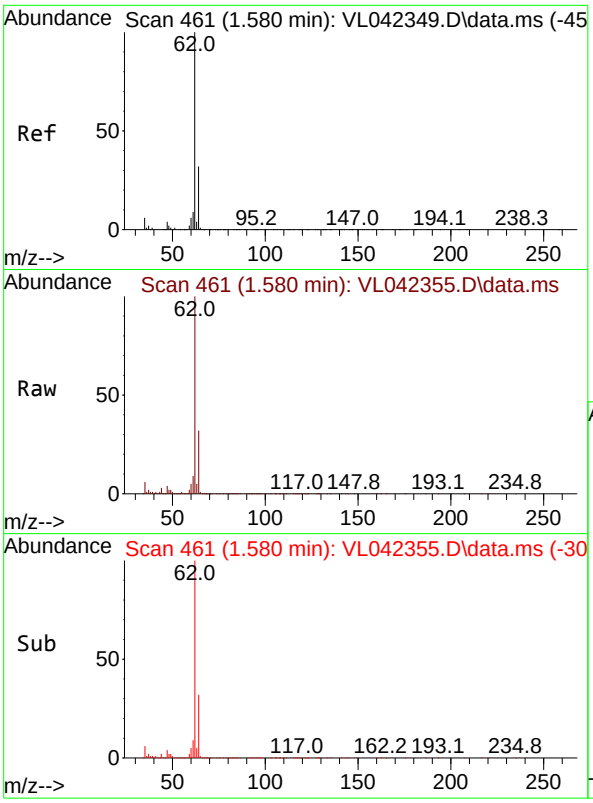




#4
Chloromethane
Concen: 14.266 ppbv
RT: 1.532 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 50 Resp: 115775

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 31.3 | 24.7 | 37.1 |



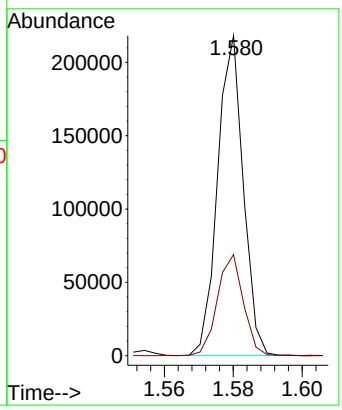


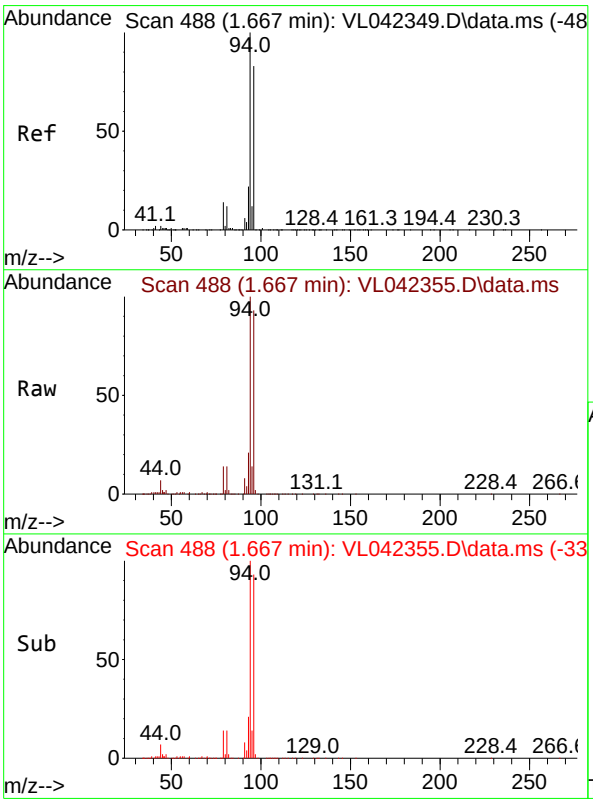

#5
Vinyl Chloride
Concen: 12.752 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion: 62 Resp: 112650

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.6 | 25.4 | 38.0 |

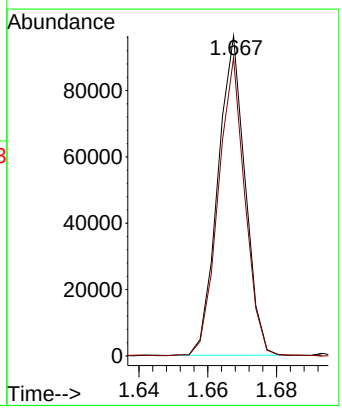


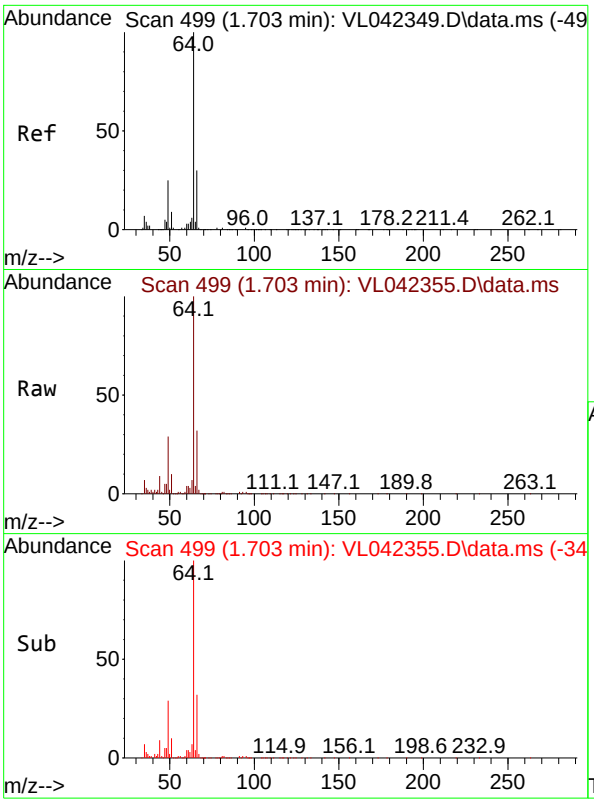




#6
Bromomethane
Concen: 13.800 ppbv
RT: 1.667 min Scan# 488
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 94 Resp: 52805

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 93.1 | 66.2 | 99.2 |



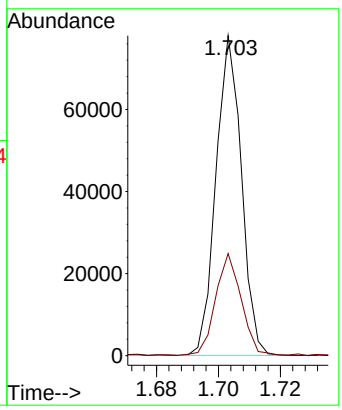


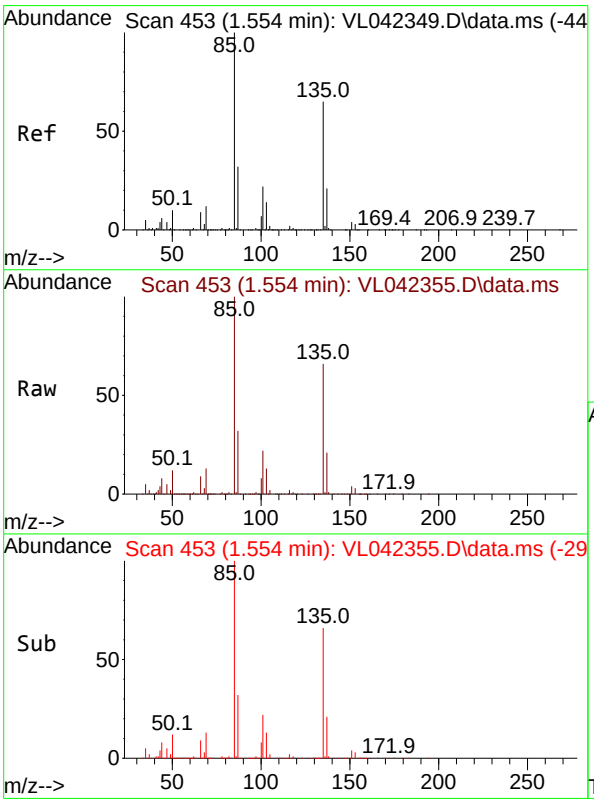

#7
Chloroethane
Concen: 13.881 ppbv
RT: 1.703 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion: 64 Resp: 44347

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 31.9 | 24.6 | 37.0 |

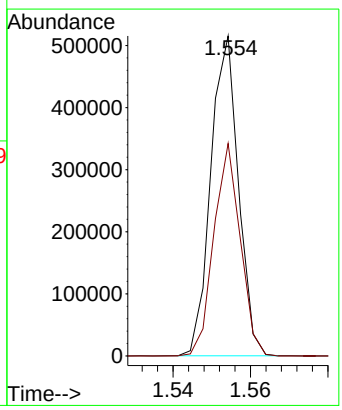


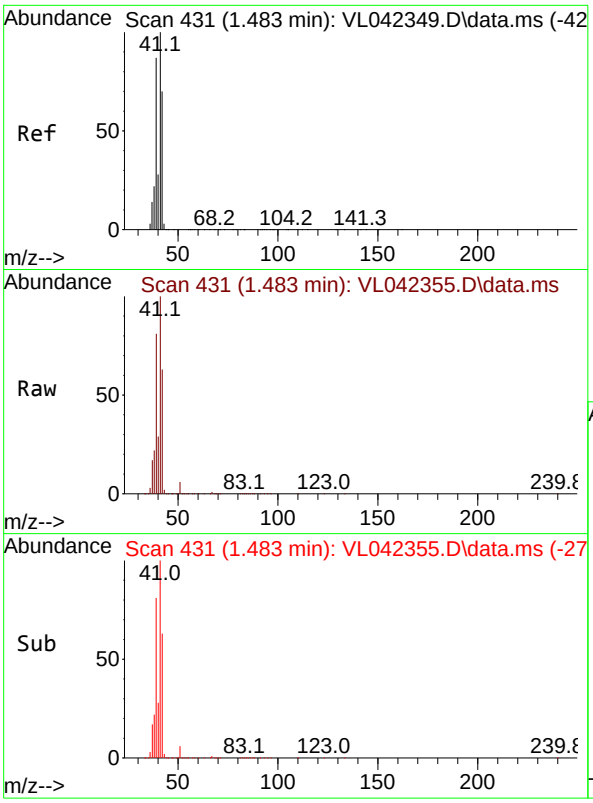




#8
Dichlorotetrafluoroethane
Concen: 14.484 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 85 Resp: 255029

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 63.6 | 52.2 | 78.2 |



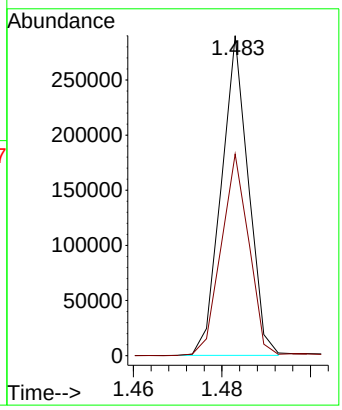


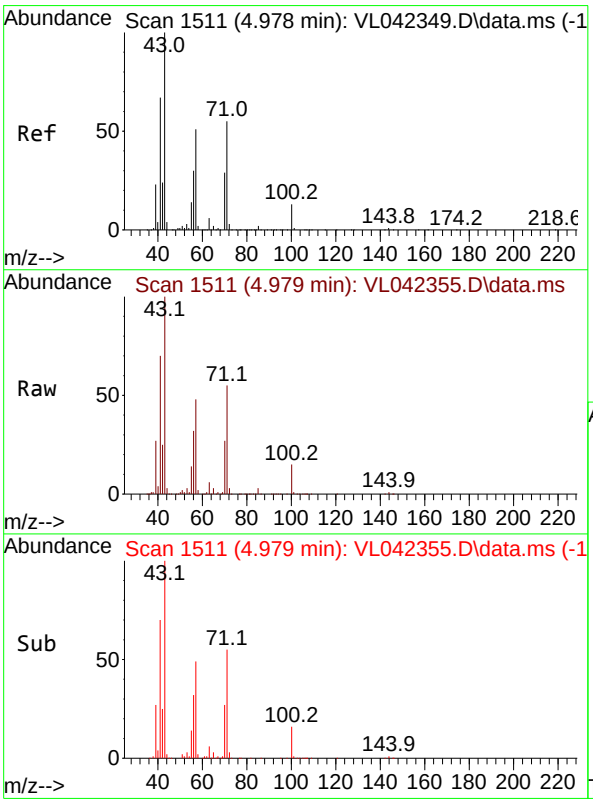

#9
Propene
Concen: 13.842 ppbv
RT: 1.483 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion: 41 Resp: 123102

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 66.0 | 56.2 | 84.4 |

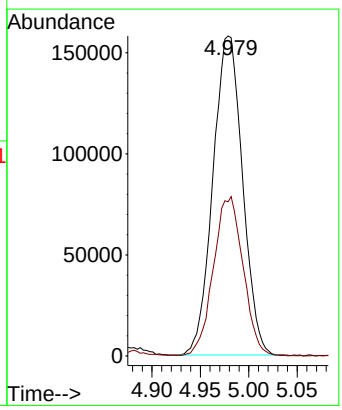


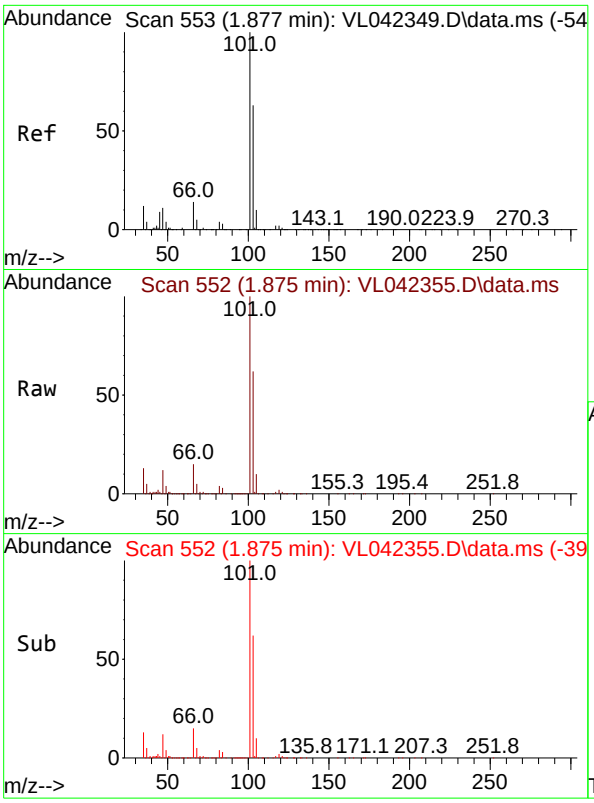




#10
Heptane
Concen: 14.047 ppbv
RT: 4.979 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 43 Resp: 336134

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 50.0 | 39.9 | 59.9 |



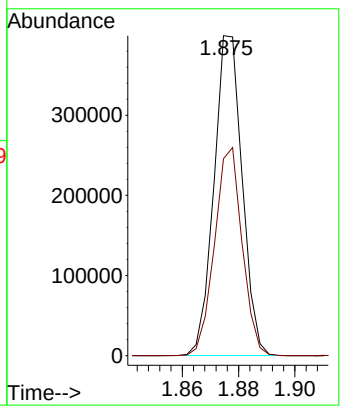


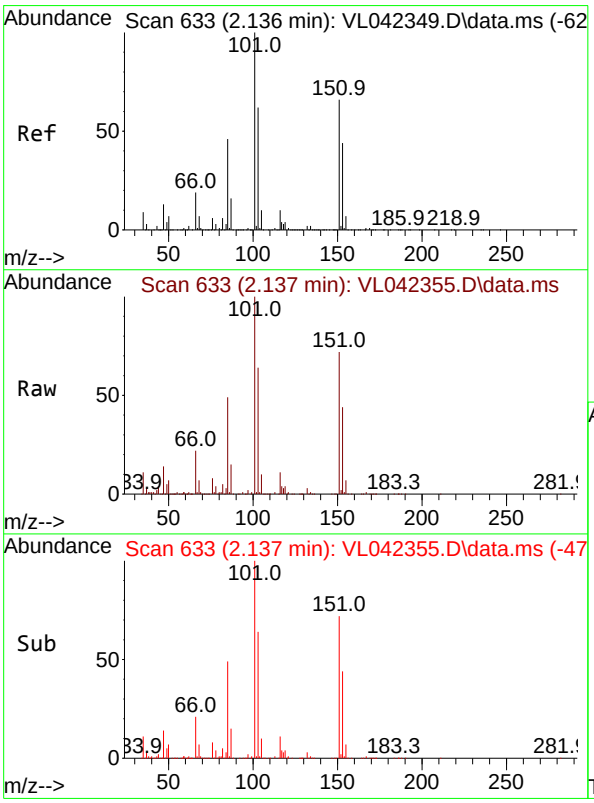

#11
Trichlorofluoromethane
Concen: 14.258 ppbv
RT: 1.875 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion:101 Resp: 278059

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 61.6 | 50.1 | 75.1 |

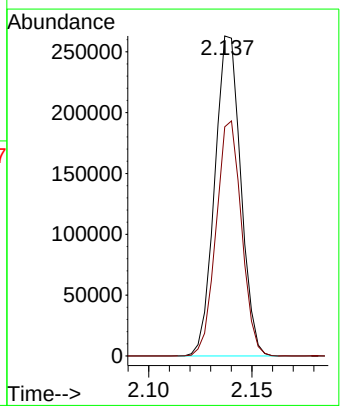


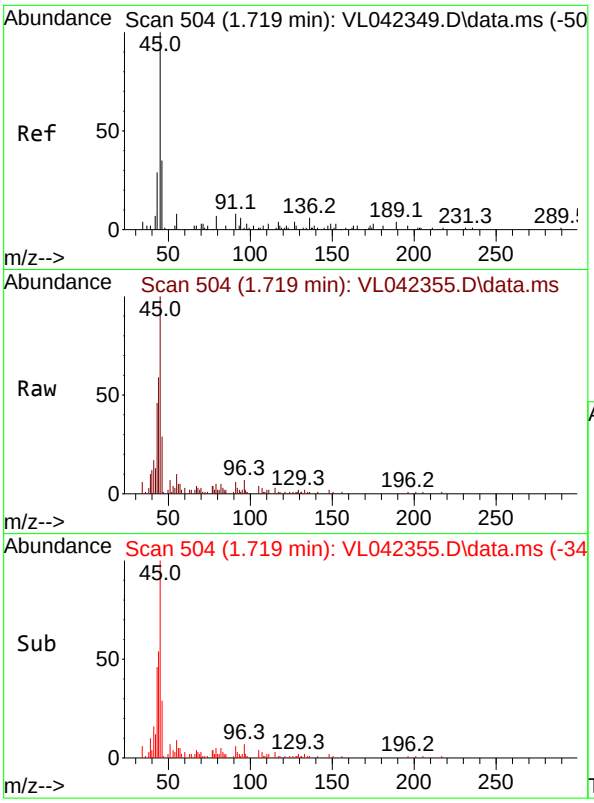




#12
1,1,2-Trichlorotrifluoroethane
Concen: 14.447 ppbv
RT: 2.137 min Scan# 633
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:101 Resp: 230366

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 71.8 | 57.0 | 85.6 |



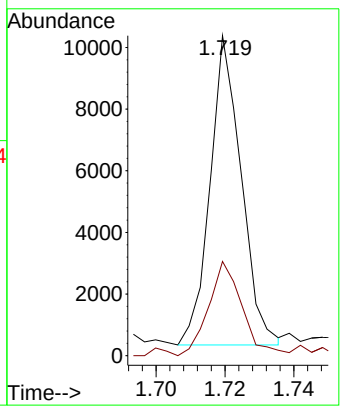


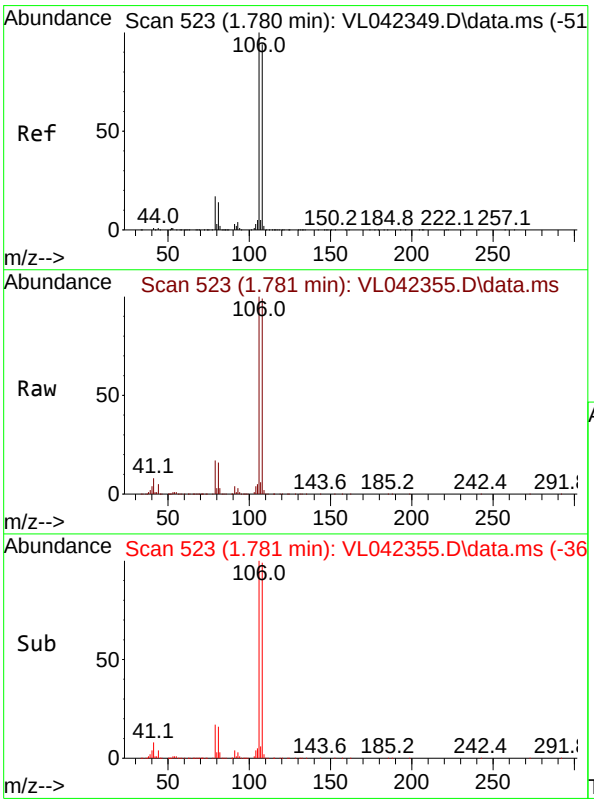

#13
Ethanol
Concen: 8.702 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion: 45 Resp: 6324

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 37.6 | 21.9 | 87.7 |

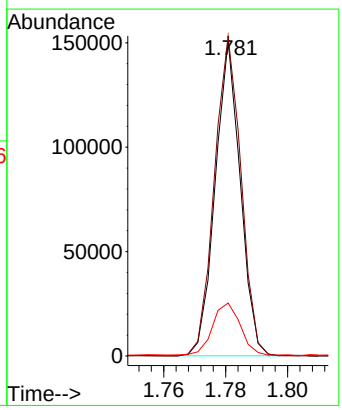


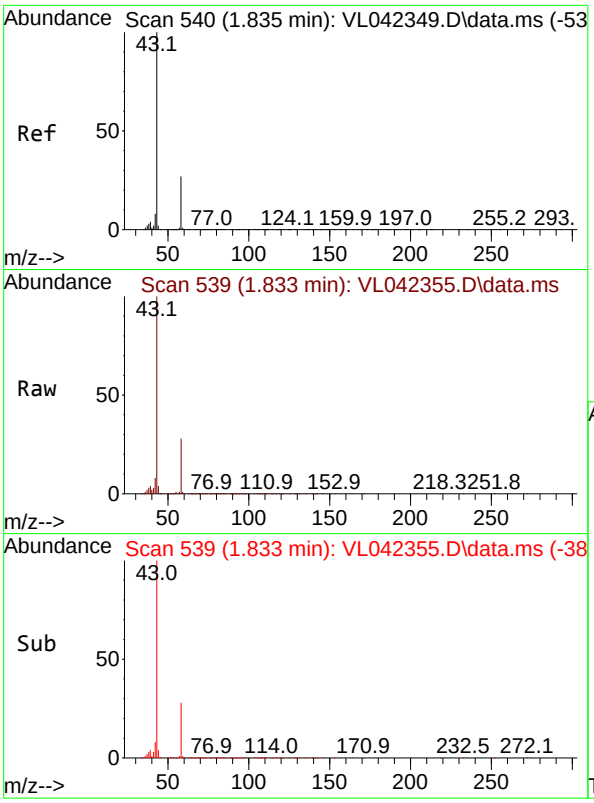




#14
Bromoethene
Concen: 14.117 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:108 Resp: 84851

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 106 | 107.5 | 85.9 | 128.9 |
| 79 | 19.3 | 13.9 | 20.9 |



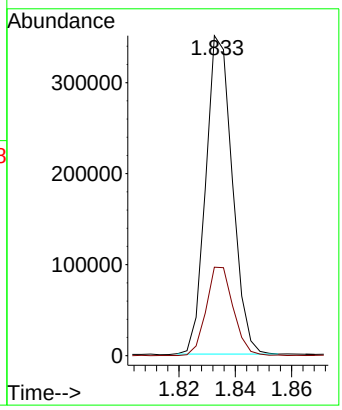


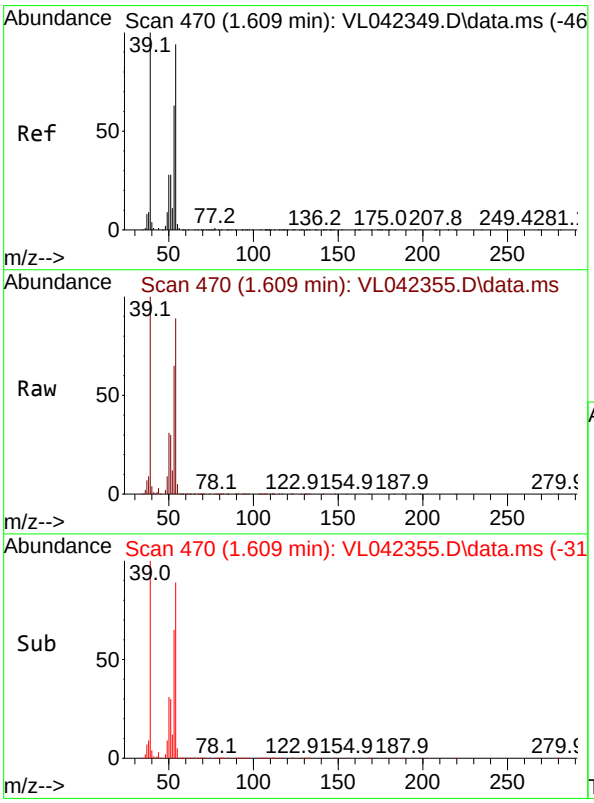

#15
Acetone
Concen: 12.056 ppbv
RT: 1.833 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion: 43 Resp: 229086

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 28.4 | 22.4 | 33.6 |

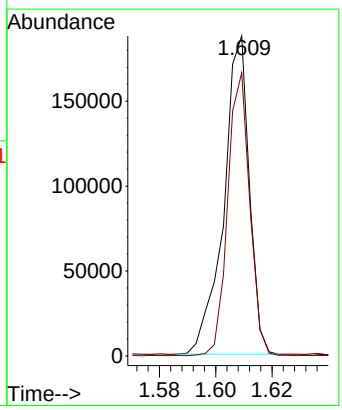


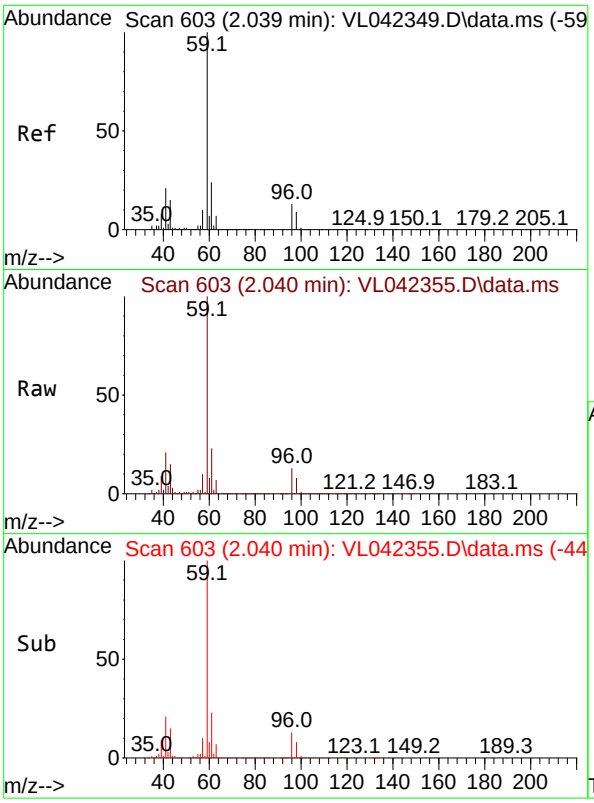




#16
1,3-Butadiene
Concen: 13.224 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 39 Resp: 117997

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 77.2 | 64.9 | 97.3 |



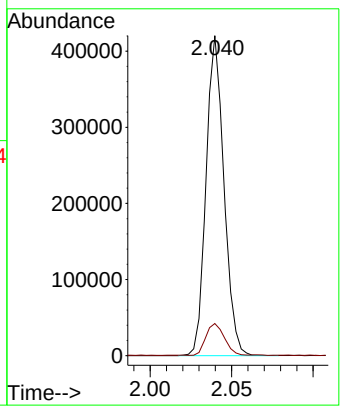


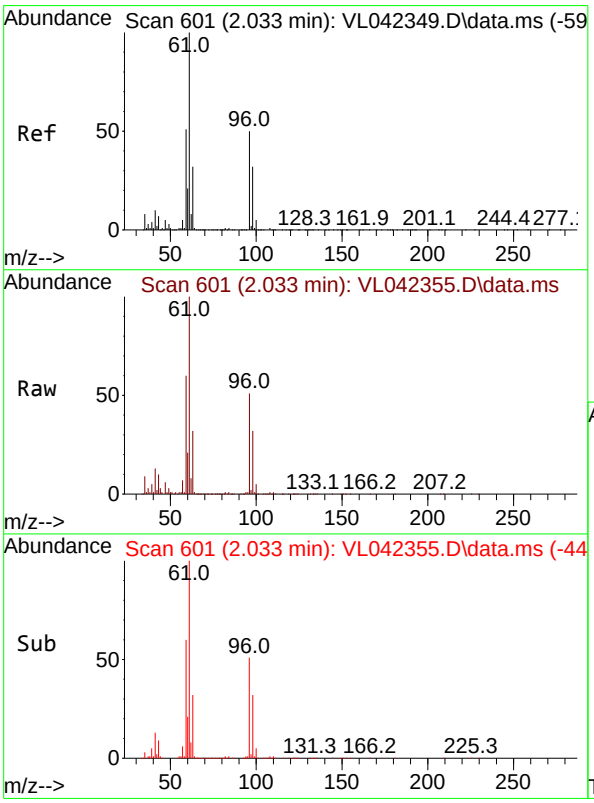

#17
tert-Butyl alcohol
Concen: 13.615 ppbv
RT: 2.040 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion: 59 Resp: 320605

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.6 | 8.7 | 13.1 |

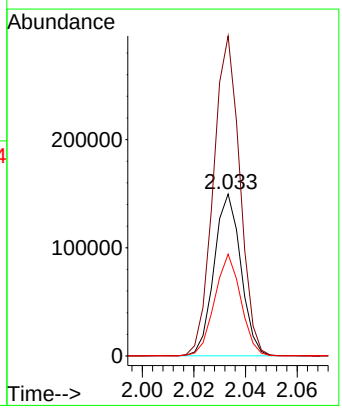


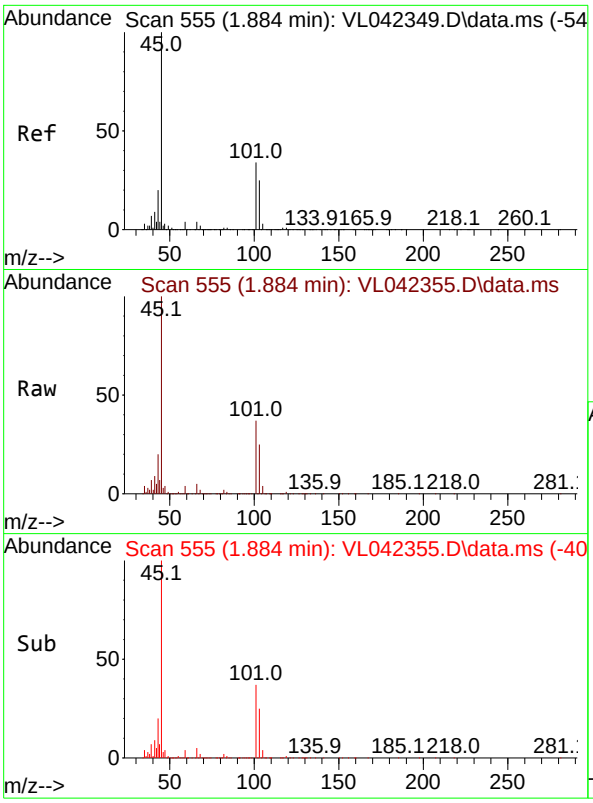




#18
1,1-Dichloroethene
Concen: 14.045 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 96 Resp: 107666

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 197.8 | 160.2 | 240.2 |
| 98 | 62.9 | 51.0 | 76.4 |



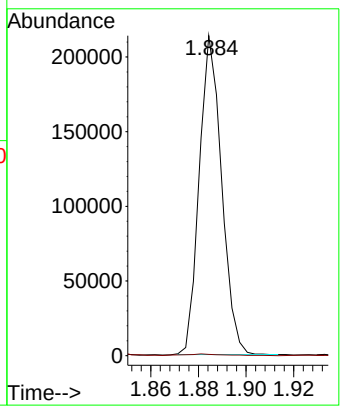


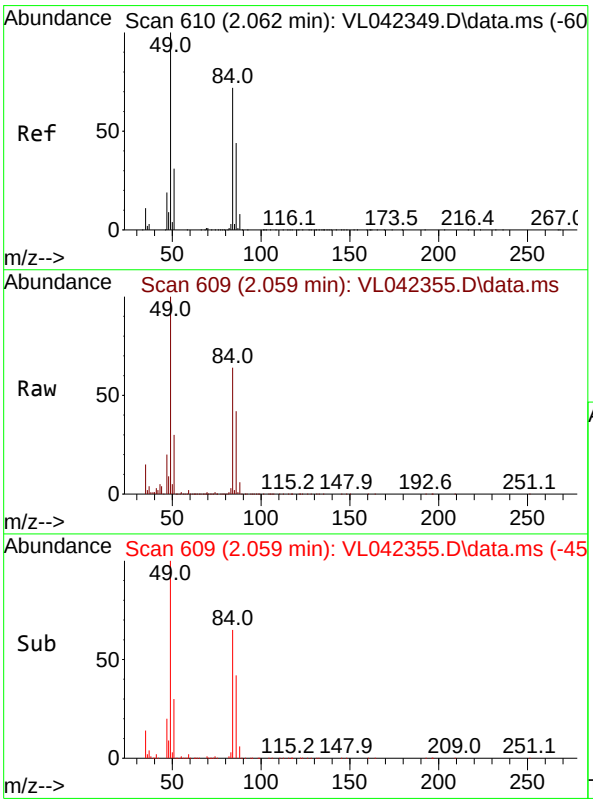

#19
Isopropyl Alcohol
Concen: 13.169 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion: 45 Resp: 139004

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 46.9 | 34.5 | 51.7 |

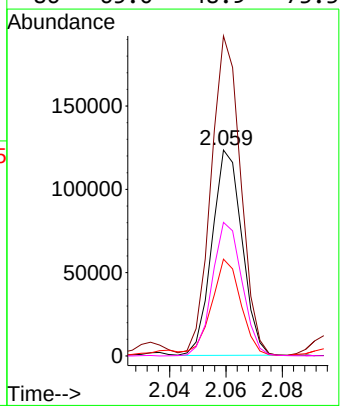


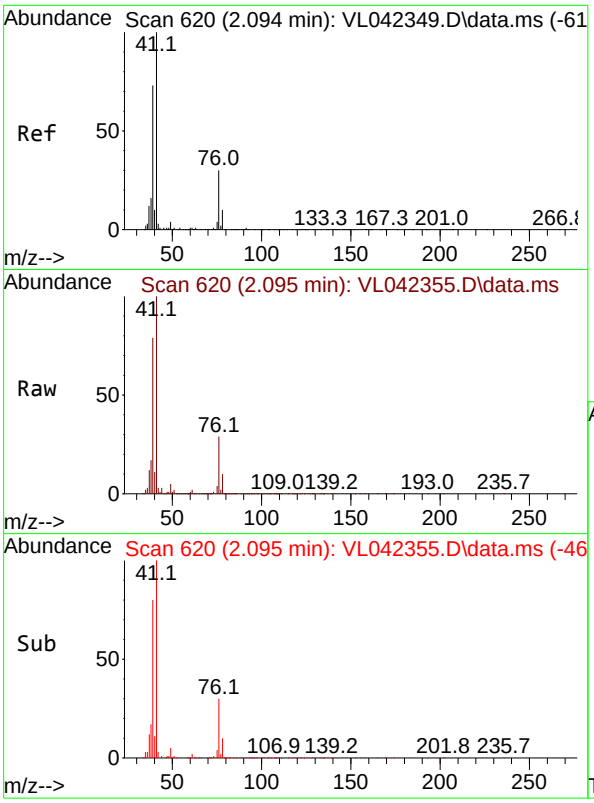




#20
Methylene Chloride
Concen: 12.241 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 84 Resp: 91093

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 155.7 | 111.6 | 167.4 |
| 51 | 46.8 | 35.1 | 52.7 |
| 86 | 65.0 | 48.9 | 73.3 |



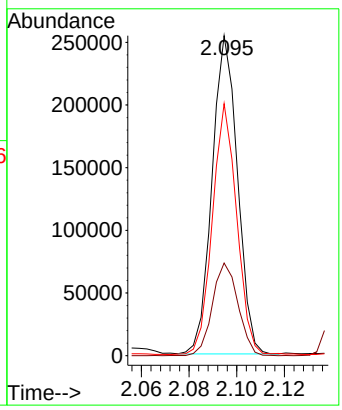


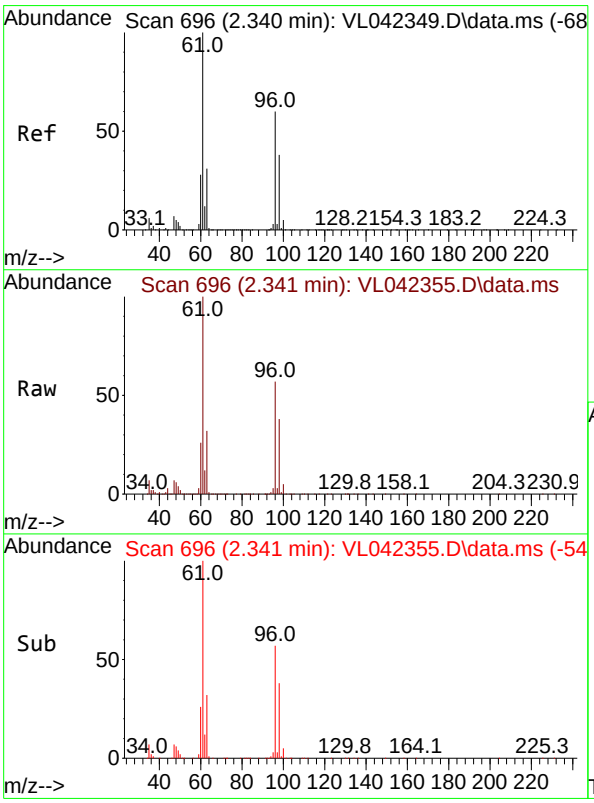

#21
Allyl Chloride
Concen: 14.329 ppbv
RT: 2.095 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion: 41 Resp: 187995

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 29.3 | 24.8 | 37.2 |
| 39 | 75.2 | 60.6 | 90.8 |

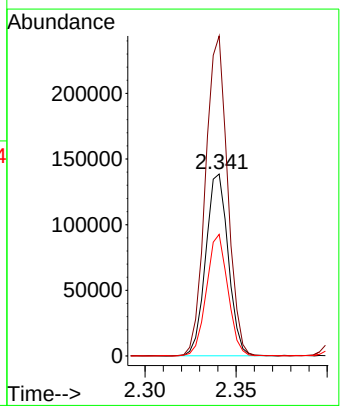


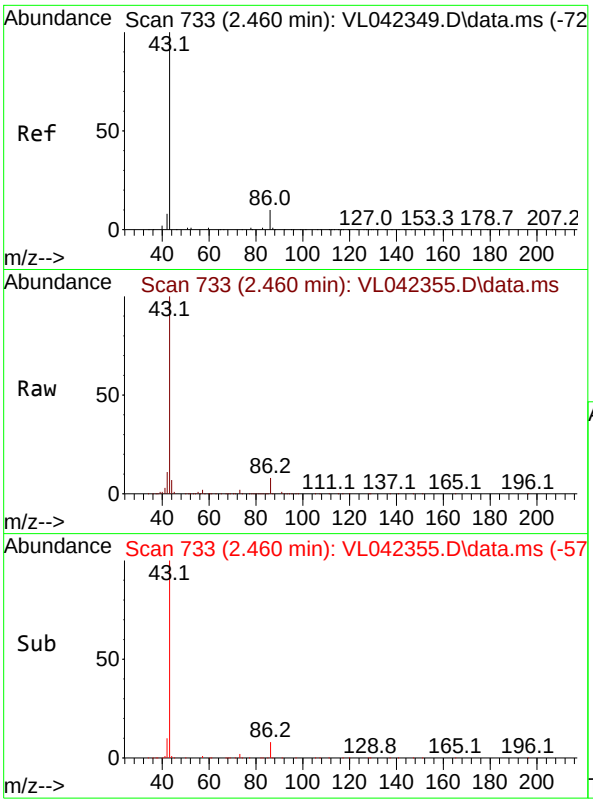




#22
trans-1,2-Dichloroethene
Concen: 13.970 ppbv
RT: 2.341 min Scan# 696
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 96 Resp: 118492

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 176.1 | 133.7 | 200.5 |
| 98 | 66.8 | 50.3 | 75.5 |



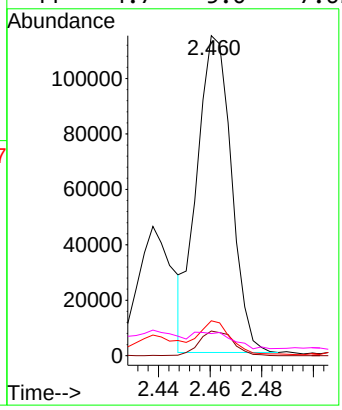


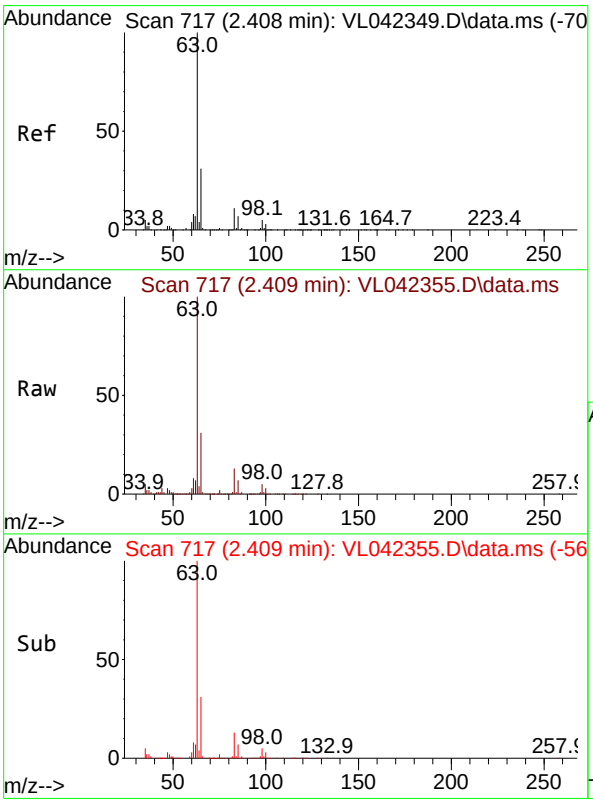

#23
Vinyl Acetate
Concen: 13.799 ppbv
RT: 2.460 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion: 43 Resp: 106135

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 7.8 | 6.5 | 9.7 |
| 42 | 10.4 | 7.8 | 11.8 |
| 44 | 4.7 | 5.0 | 7.6# |

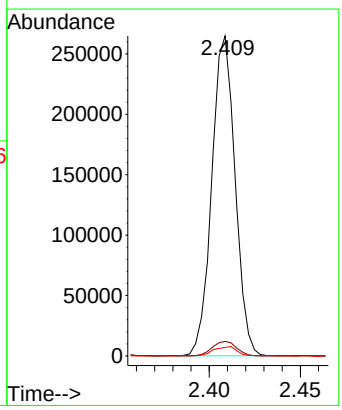


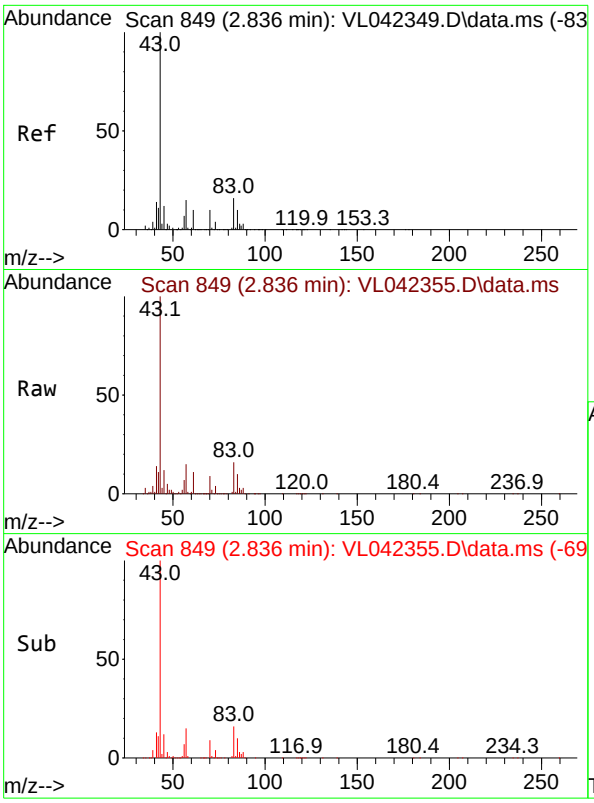




#24
1,1-Dichloroethane
Concen: 14.615 ppbv
RT: 2.409 min Scan# 717
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 63 Resp: 235466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 4.5 | 2.3 | 6.8 |
| 100 | 2.6 | 1.6 | 4.8 |



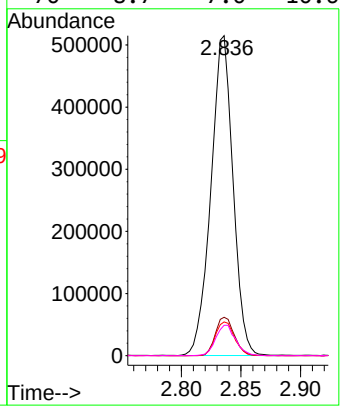


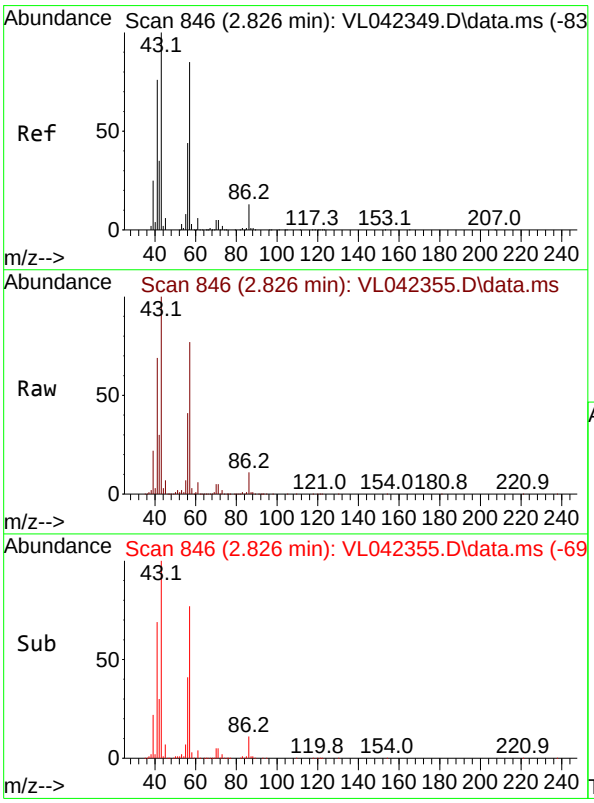

#25
Ethyl Acetate
Concen: 14.166 ppbv
RT: 2.836 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion: 43 Resp: 663644

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 10.4 | 8.3 | 12.5 |
| 61 | 9.2 | 7.3 | 10.9 |
| 70 | 8.7 | 7.0 | 10.6 |

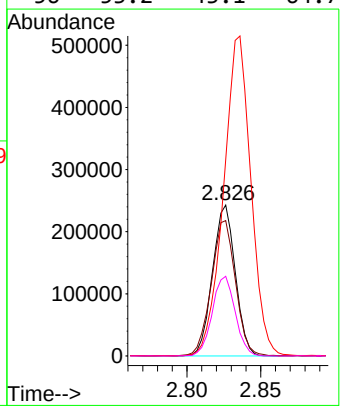


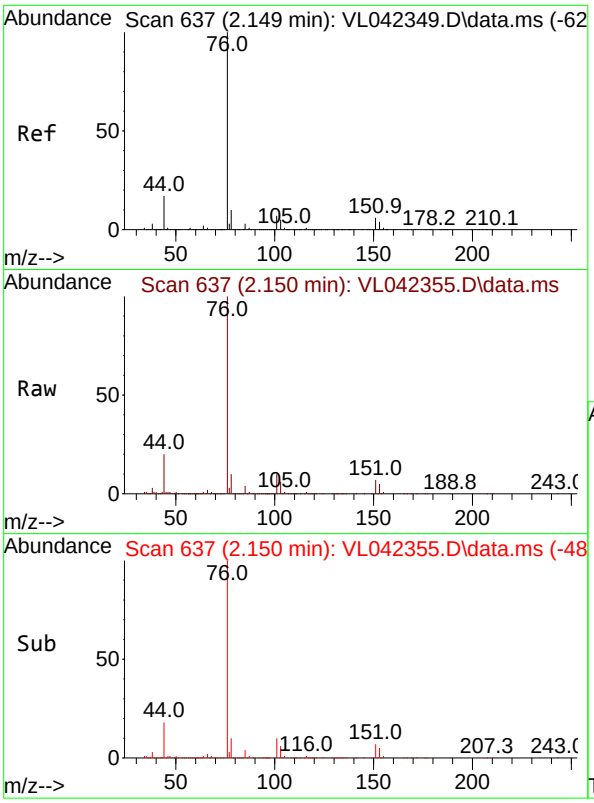




#26
Hexane
Concen: 13.765 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 57 Resp: 260975

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 95.3 | 77.9 | 116.9 |
| 43 | 254.5 | 208.4 | 312.6 |
| 56 | 53.2 | 43.1 | 64.7 |



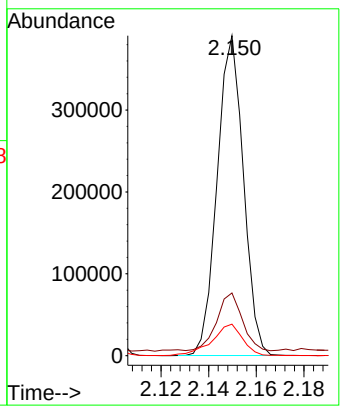


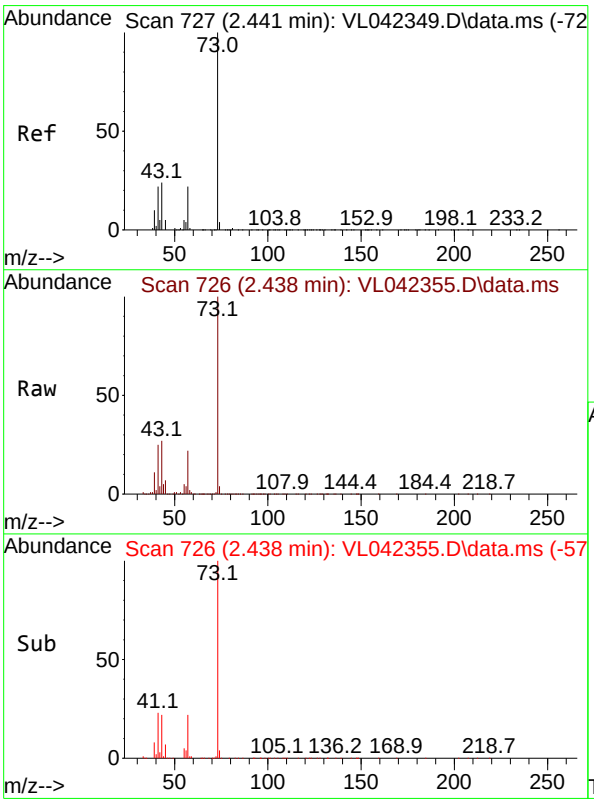

#27
Carbon Disulfide
Concen: 14.734 ppbv
RT: 2.150 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion: 76 Resp: 299098

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 17.3 | 15.5 | 23.3 |
| 78 | 11.4 | 9.3 | 13.9 |

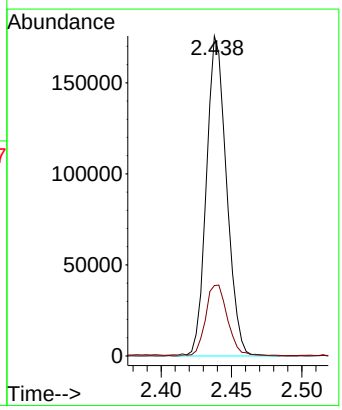


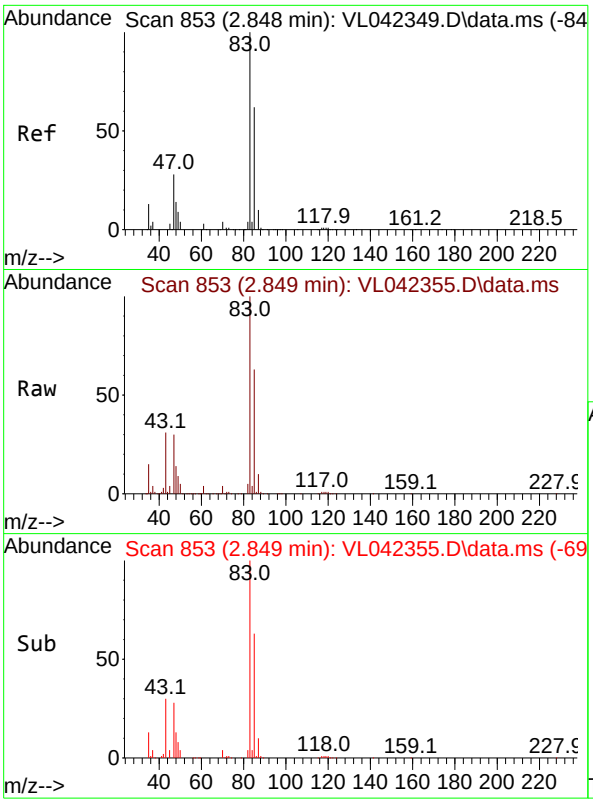




#28
Methyl tert-Butyl Ether
Concen: 14.076 ppbv
RT: 2.438 min Scan# 726
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 73 Resp: 174855

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 24.3 | 21.3 | 31.9 |



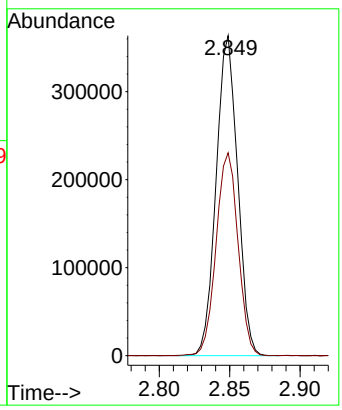


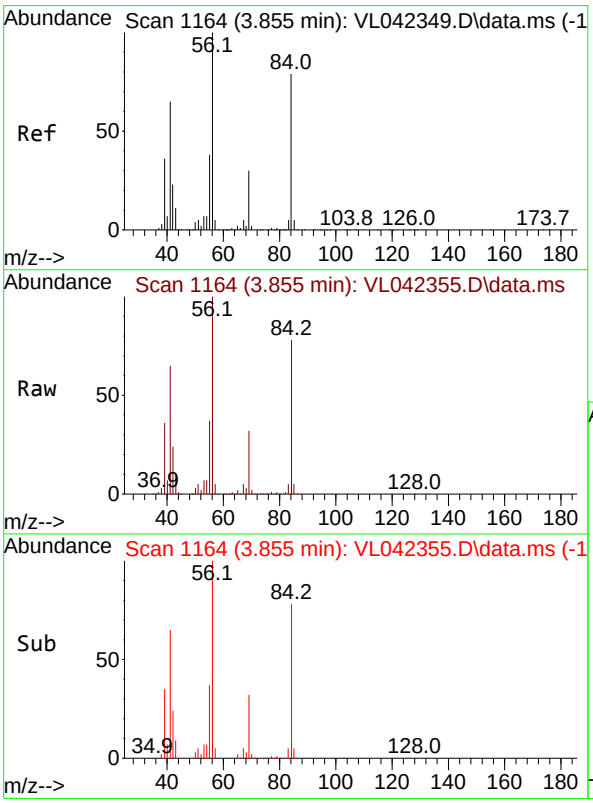

#29
Chloroform
Concen: 14.393 ppbv
RT: 2.849 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion: 83 Resp: 385686

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.4 | 50.0 | 75.0 |

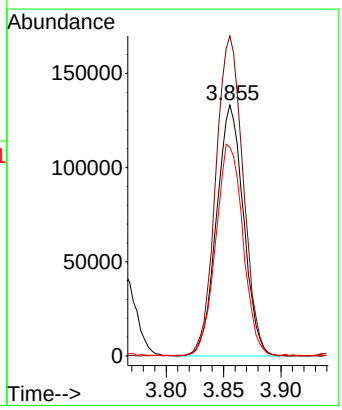


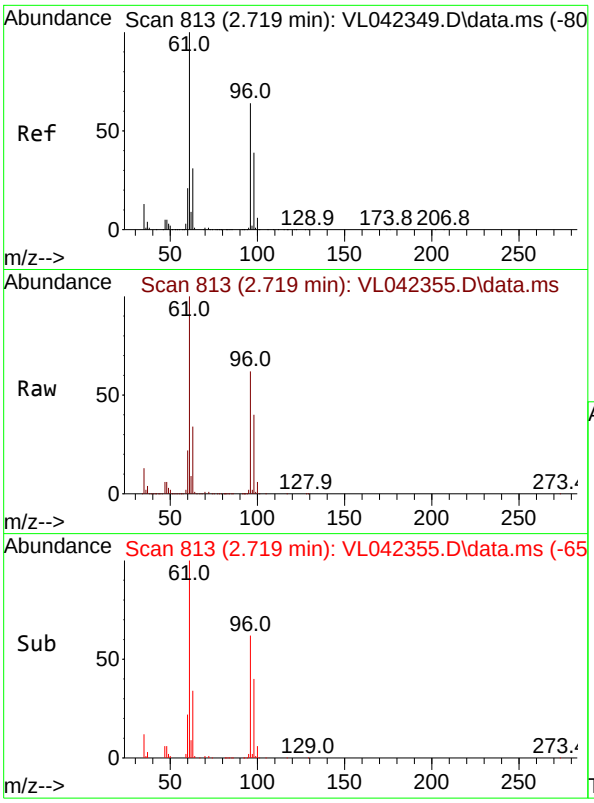




#30
Cyclohexane
Concen: 14.238 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 84 Resp: 217375

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 129.4 | 101.0 | 151.4 |
| 41 | 85.3 | 67.4 | 101.0 |



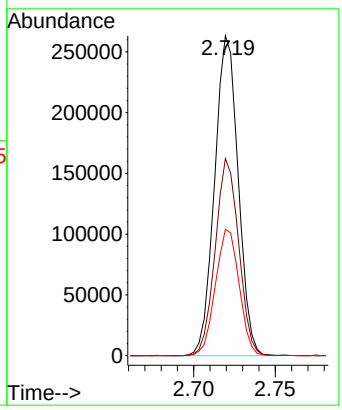


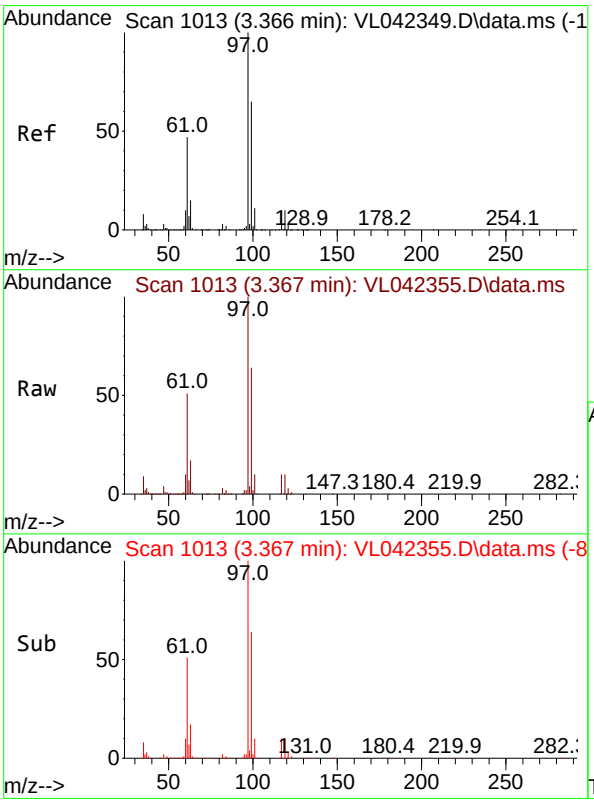

#31
cis-1,2-Dichloroethene
Concen: 14.700 ppbv
RT: 2.719 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion: 61 Resp: 264972

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 61.6 | 50.8 | 76.2 |
| 98 | 39.5 | 30.9 | 46.3 |

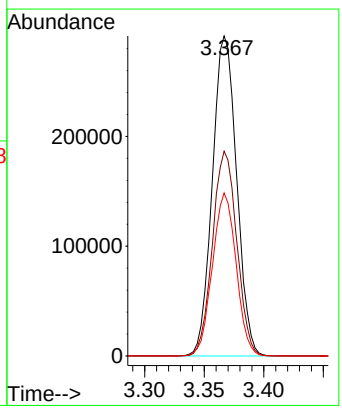


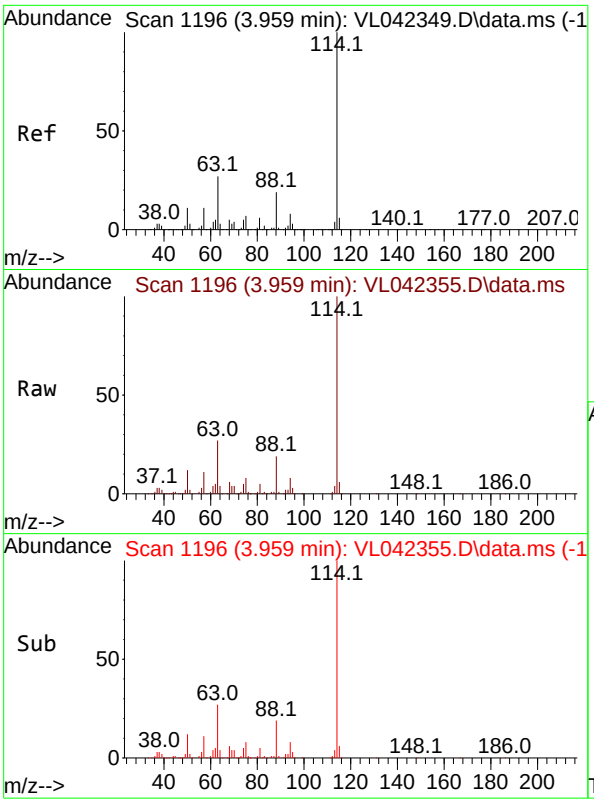




#32
1,1,1-Trichloroethane
Concen: 14.357 ppbv
RT: 3.367 min Scan# 1013
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 97 Resp: 412537

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.1 | 51.0 | 76.4 |
| 61 | 49.8 | 38.8 | 58.2 |



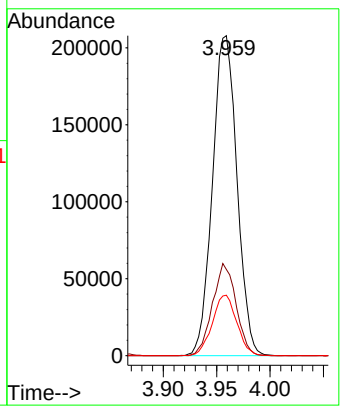


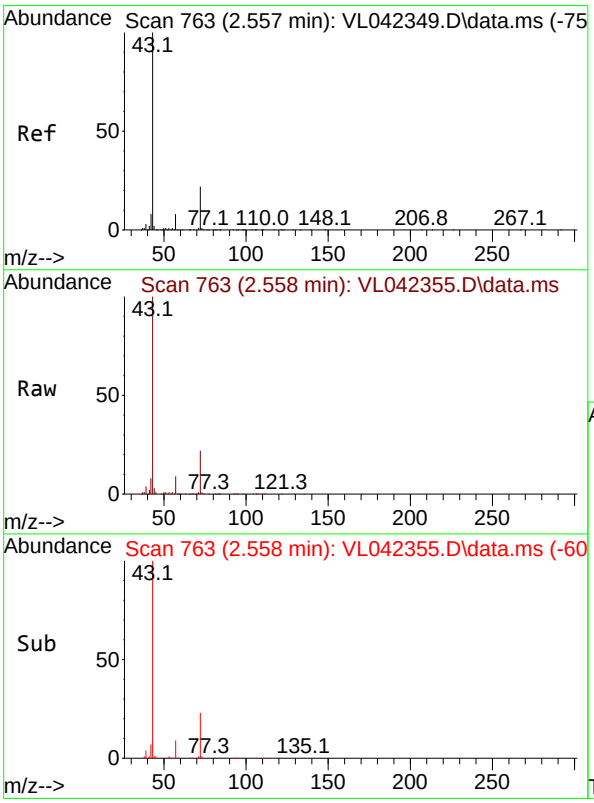

#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion:114 Resp: 332080

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 27.7 | 21.8 | 32.6 |
| 88 | 18.9 | 15.5 | 23.3 |

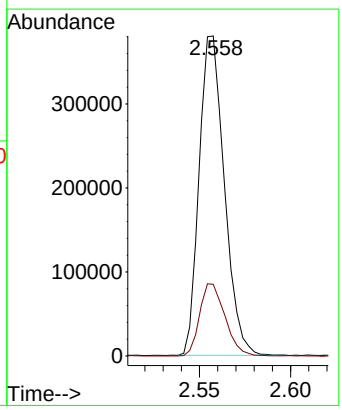


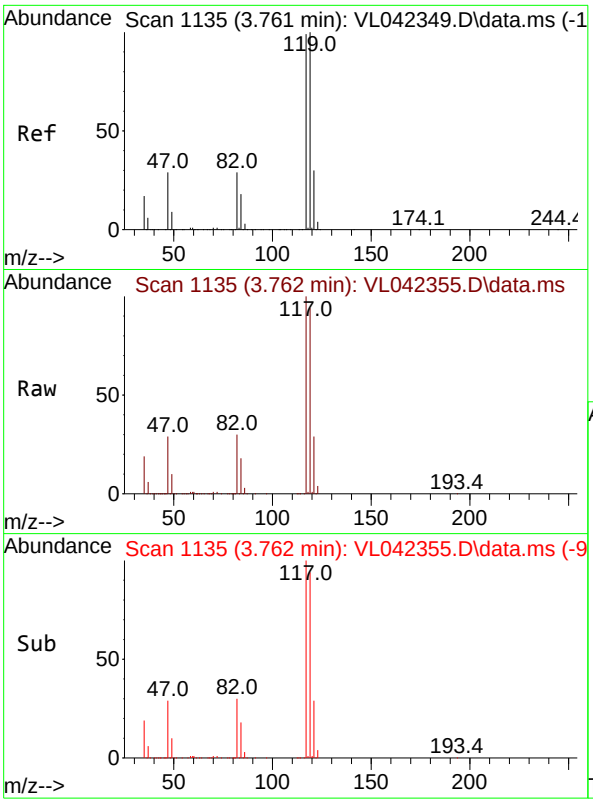




#34
2-Butanone
Concen: 13.986 ppbv
RT: 2.558 min Scan# 763
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 43 Resp: 367315

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 22.7 | 18.2 | 27.2 |



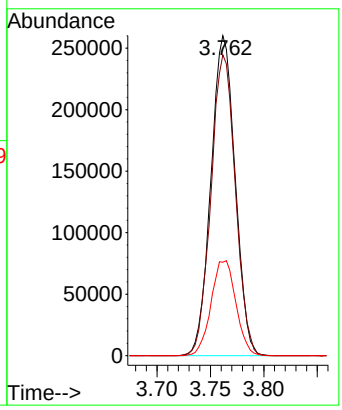


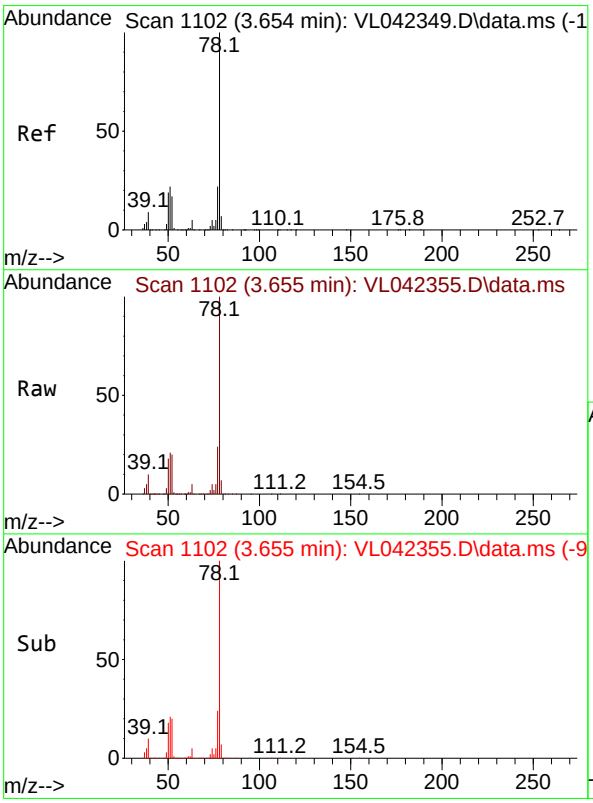

#35
Carbon Tetrachloride
Concen: 13.639 ppbv
RT: 3.762 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion:117 Resp: 409916

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 94.0 | 80.5 | 120.7 |
| 121 | 29.2 | 24.2 | 36.2 |

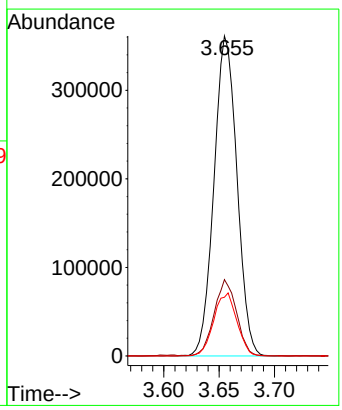


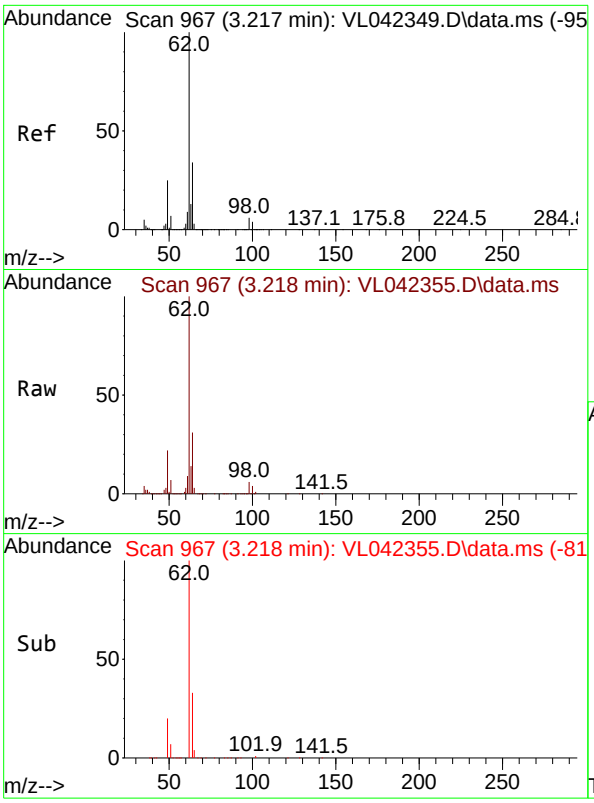




#36
Benzene
Concen: 14.578 ppbv
RT: 3.655 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 78 Resp: 522156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.8 | 17.4 | 26.0 |
| 50 | 18.3 | 15.5 | 23.3 |



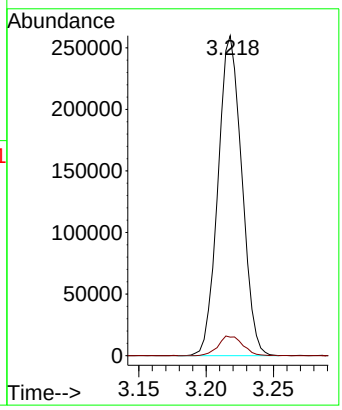


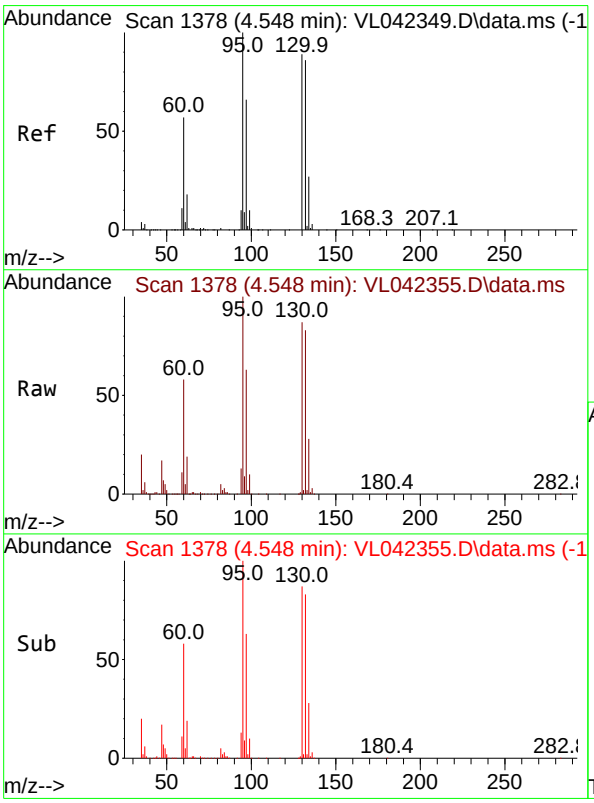

#37
1,2-Dichloroethane
Concen: 14.863 ppbv
RT: 3.218 min Scan# 9
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion: 62 Resp: 319517

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 6.3 | 5.1 | 7.7 |

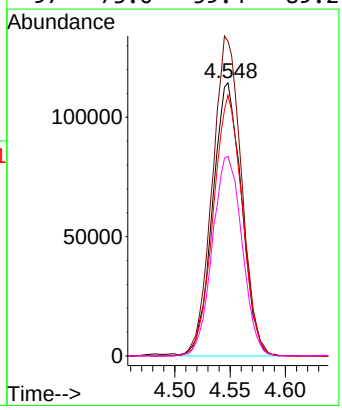


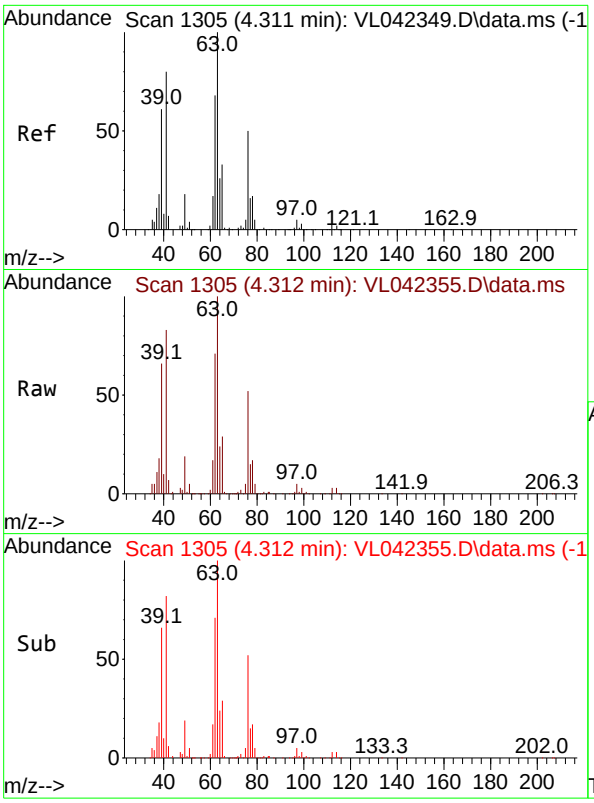




#38
Trichloroethene
Concen: 13.278 ppbv
RT: 4.548 min Scan# 1378
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:130 Resp: 208508

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 115.0 | 89.8 | 134.6 |
| 132 | 95.3 | 77.7 | 116.5 |
| 97 | 73.0 | 59.4 | 89.2 |



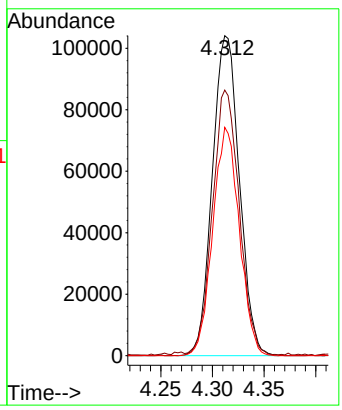


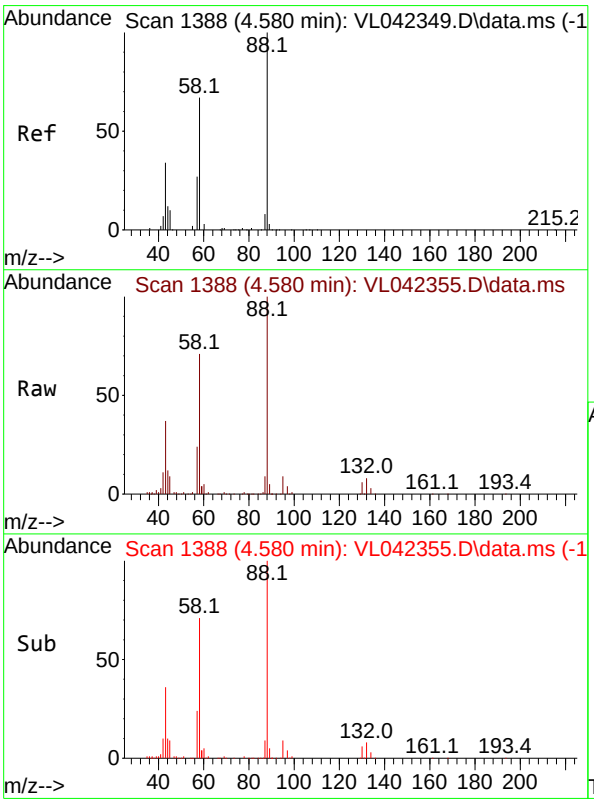

#39
1,2-Dichloropropane
Concen: 14.201 ppbv
RT: 4.312 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion: 63 Resp: 189697

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 82.7 | 64.2 | 96.2 |
| 62 | 71.4 | 54.3 | 81.5 |

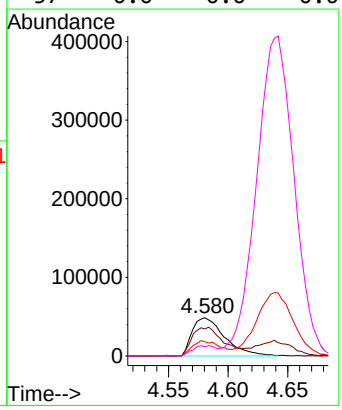


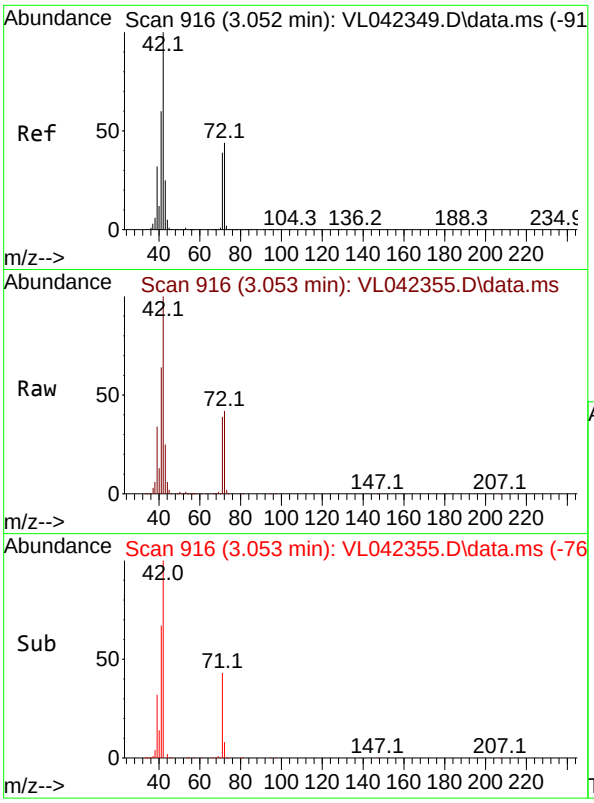




#40
1,4-Dioxane
Concen: 12.733 ppbv
RT: 4.580 min Scan# 1388
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 88 Resp: 92114

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 75.2 | 61.4 | 92.0 |
| 43 | 36.8 | 23.2 | 34.8# |
| 57 | 0.0 | 0.0 | 0.0 |



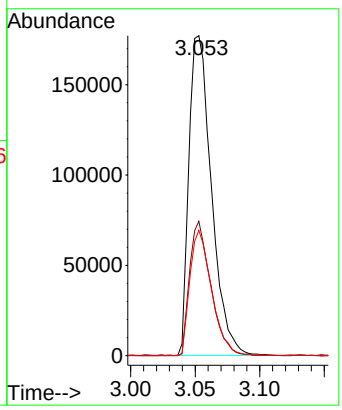


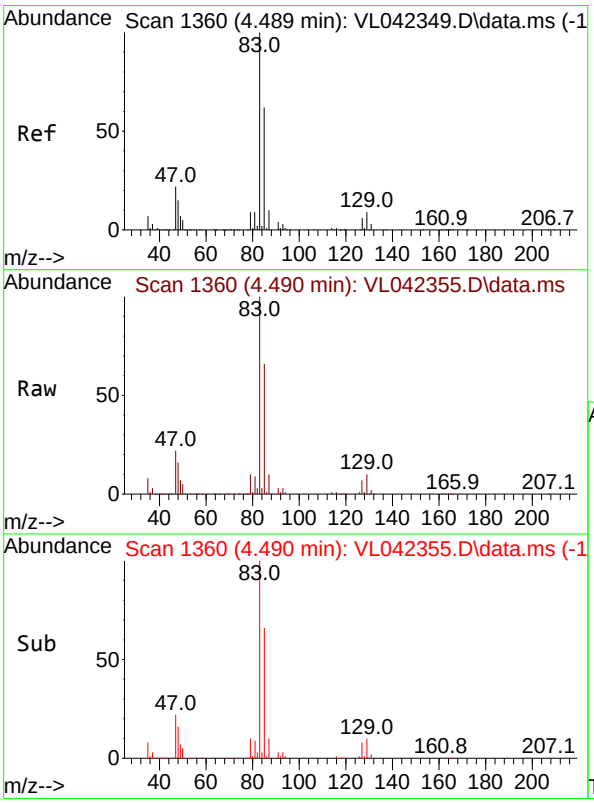

#41
Tetrahydrofuran
Concen: 14.166 ppbv
RT: 3.053 min Scan# 91
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion: 42 Resp: 214949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 39.7 | 32.3 | 48.5 |
| 71 | 37.9 | 31.4 | 47.2 |

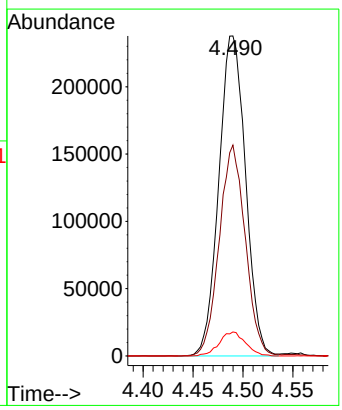


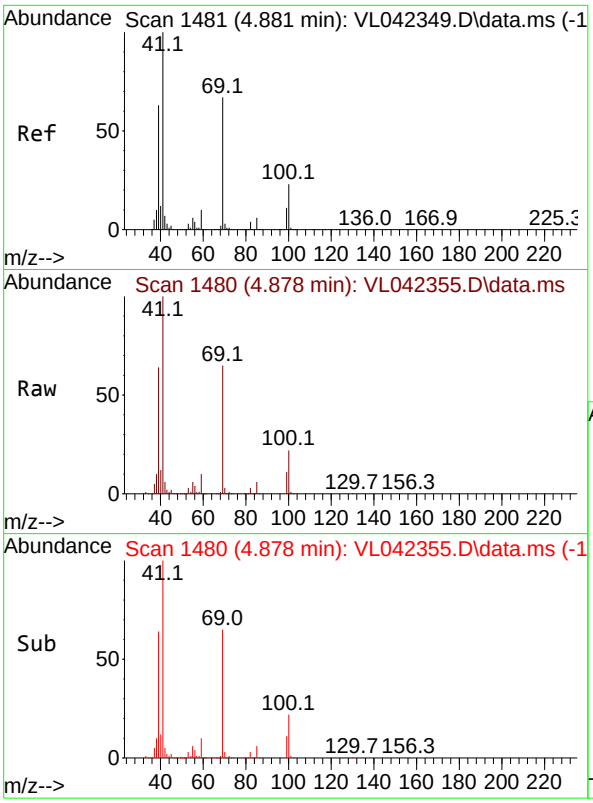




#42
Bromodichloromethane
Concen: 14.798 ppbv
RT: 4.490 min Scan# 1360
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 83 Resp: 442735

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.9 | 49.7 | 74.5 |
| 127 | 7.5 | 5.1 | 7.7 |



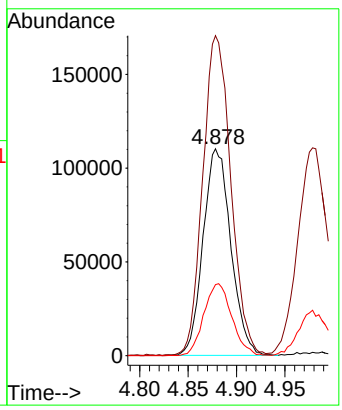


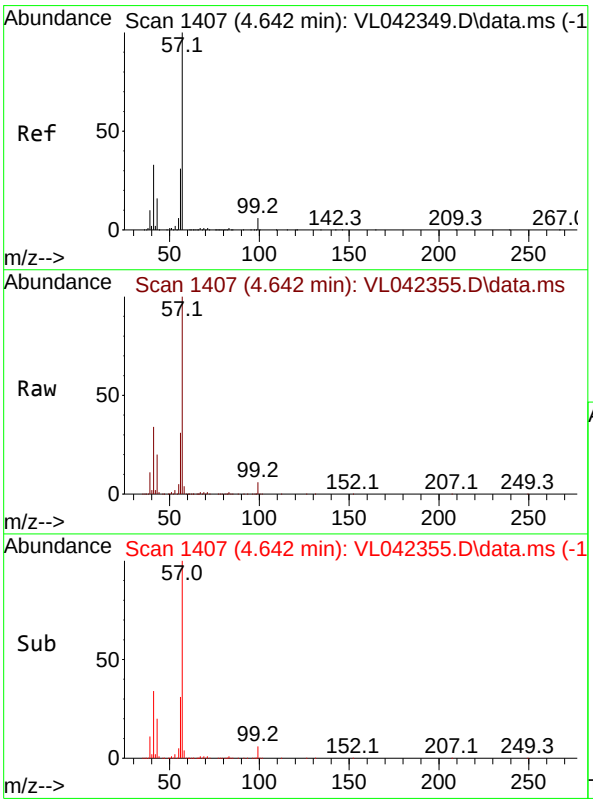

#43
Methyl Methacrylate
Concen: 13.670 ppbv
RT: 4.878 min Scan# 14
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion: 69 Resp: 219757

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 156.6 | 118.6 | 177.8 |
| 100 | 35.2 | 28.2 | 42.2 |

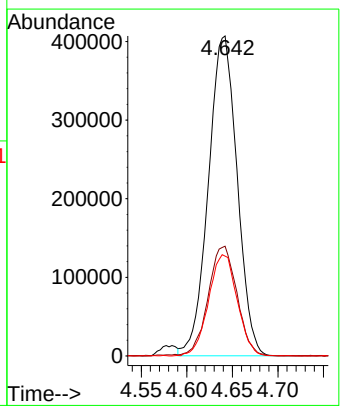


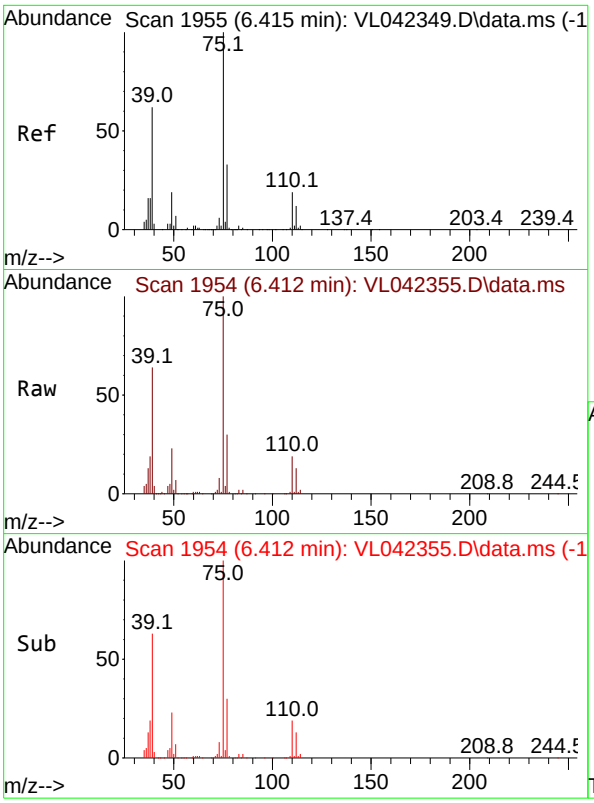




#44
2,2,4-Trimethylpentane
Concen: 14.425 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 57 Resp: 893529

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 34.4 | 27.2 | 40.8 |
| 56 | 31.6 | 25.7 | 38.5 |



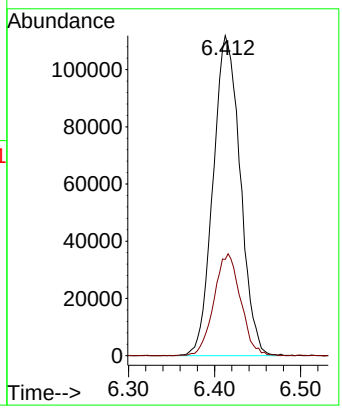


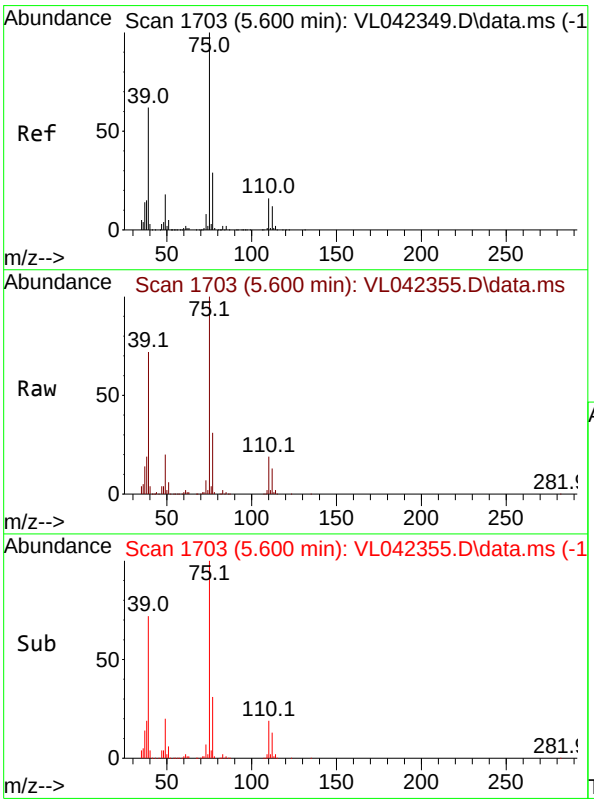

#45
t-1,3-Dichloropropene
Concen: 14.810 ppbv
RT: 6.412 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion: 75 Resp: 244470

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.1 | 27.0 | 40.6 |

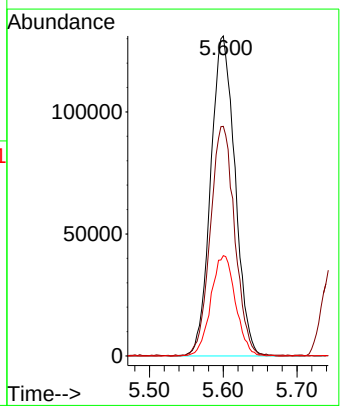


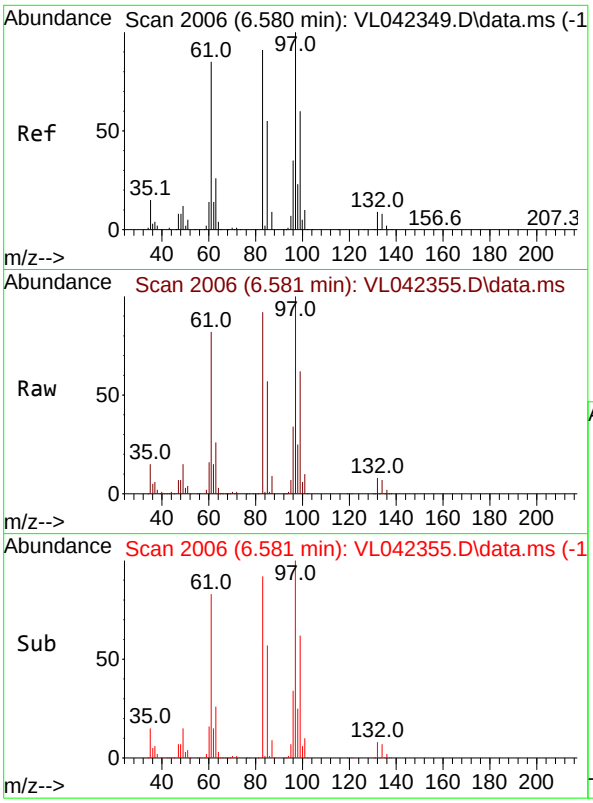




#46
cis-1,3-Dichloropropene
Concen: 14.878 ppbv
RT: 5.600 min Scan# 1703
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 75 Resp: 300145

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 39 | 71.6 | 50.0 | 75.0 |
| 77 | 31.3 | 23.0 | 34.6 |



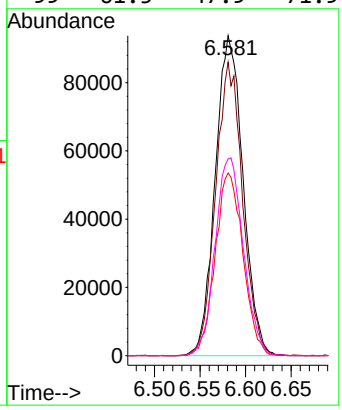


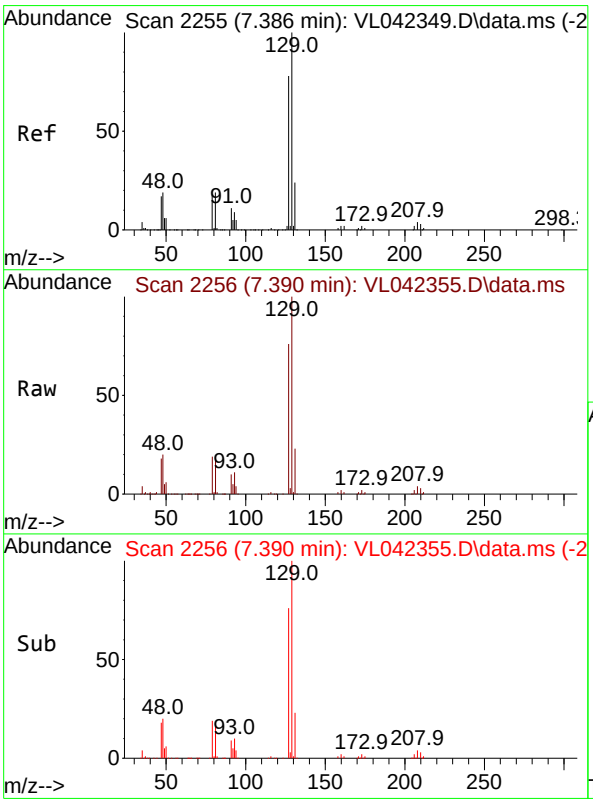

#47
1,1,2-Trichloroethane
Concen: 14.615 ppbv
RT: 6.581 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion: 97 Resp: 198874

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 91.7 | 72.8 | 109.2 |
| 85 | 57.0 | 44.2 | 66.4 |
| 99 | 61.5 | 47.9 | 71.9 |

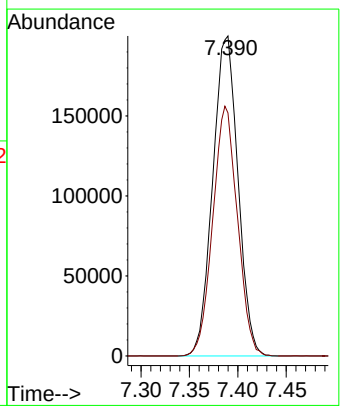


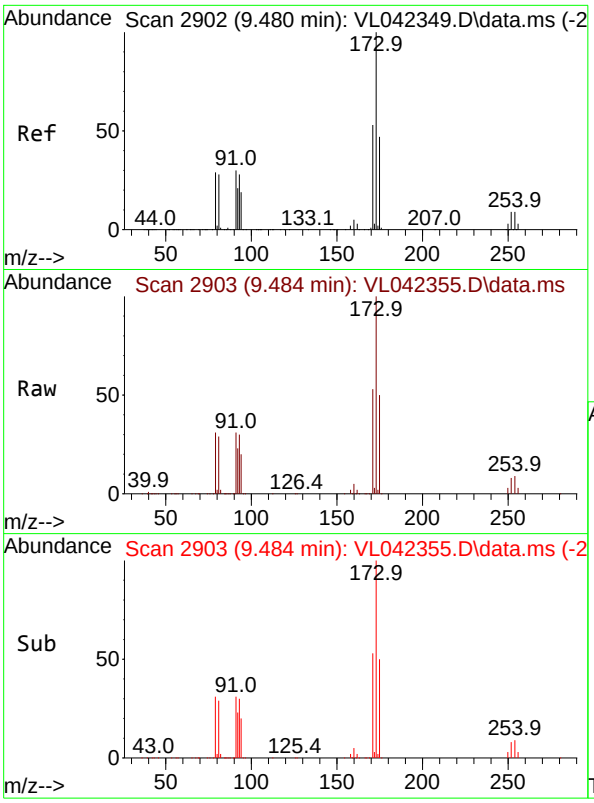




#48
Dibromochloromethane
Concen: 15.105 ppbv
RT: 7.390 min Scan# 2256
Delta R.T. 0.004 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:129 Resp: 362887

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 76.3 | 39.1 | 117.3 |



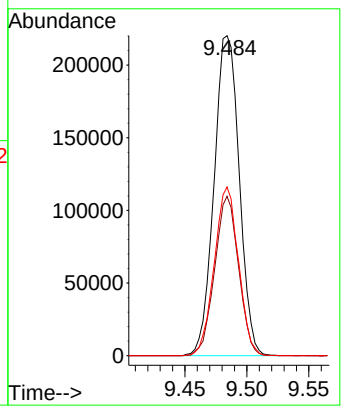


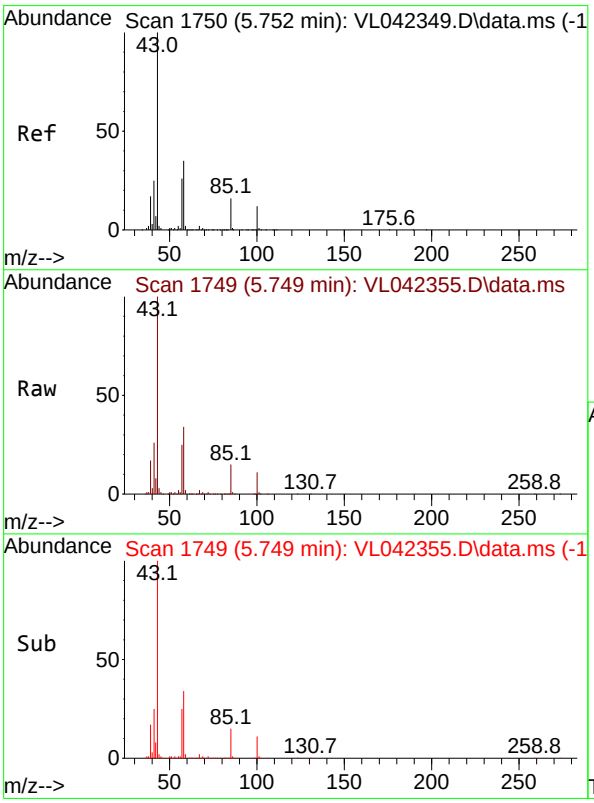

#49
Bromoform
Concen: 14.865 ppbv
RT: 9.484 min Scan# 2
Delta R.T. 0.004 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion:173 Resp: 312282

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 47.3 | 38.2 | 57.2 |
| 171 | 50.6 | 40.9 | 61.3 |

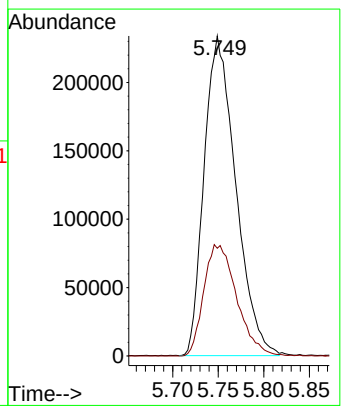


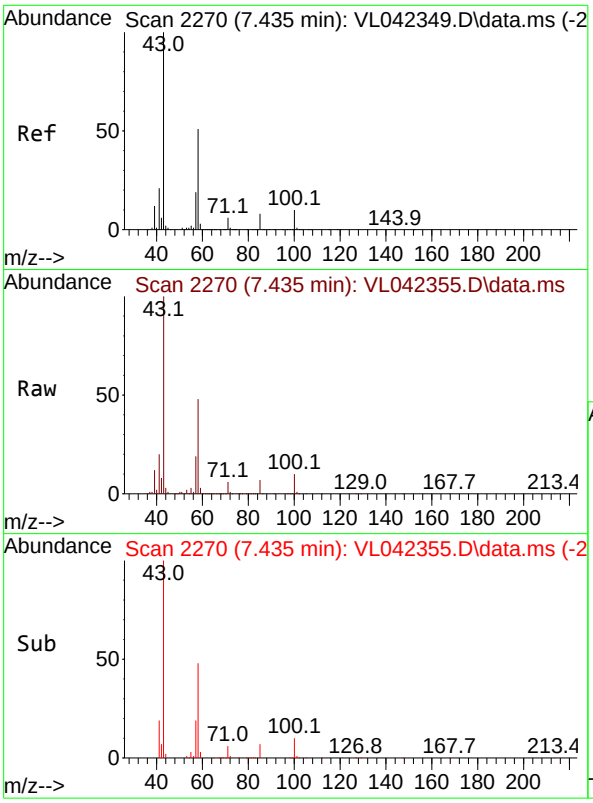




#50
4-Methyl-2-Pentanone
Concen: 12.889 ppbv
RT: 5.749 min Scan# 1749
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 43 Resp: 563658

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 36.3 | 28.6 | 43.0 |



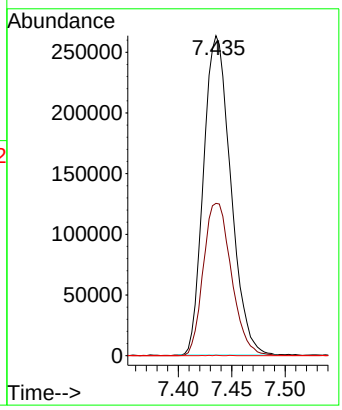


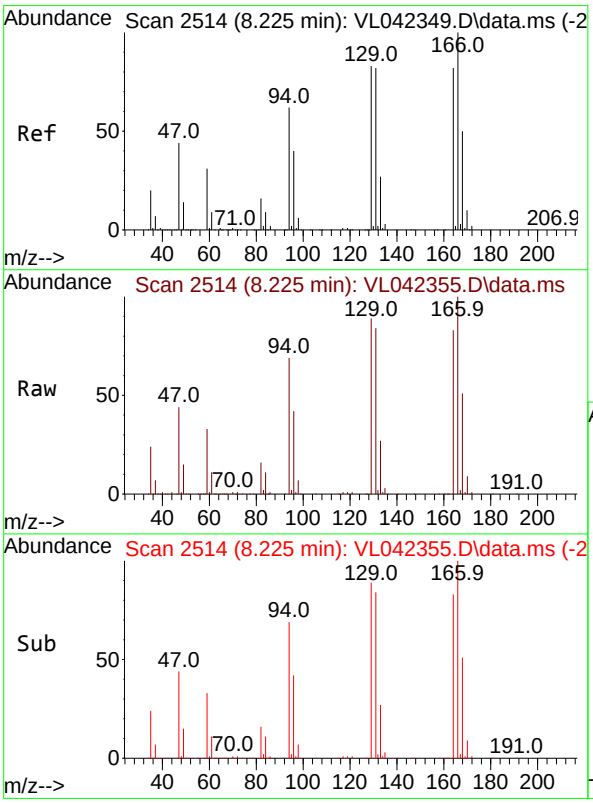

#51
2-Hexanone
Concen: 11.834 ppbv
RT: 7.435 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion: 43 Resp: 467001

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 49.2 | 40.2 | 60.4 |
| 98 | 0.0 | 0.1 | 0.1# |

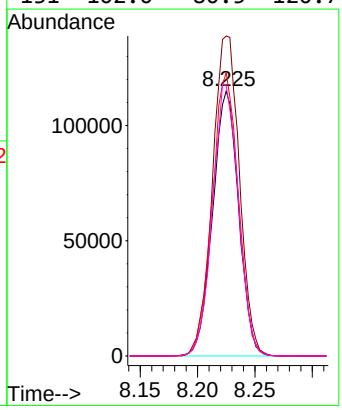


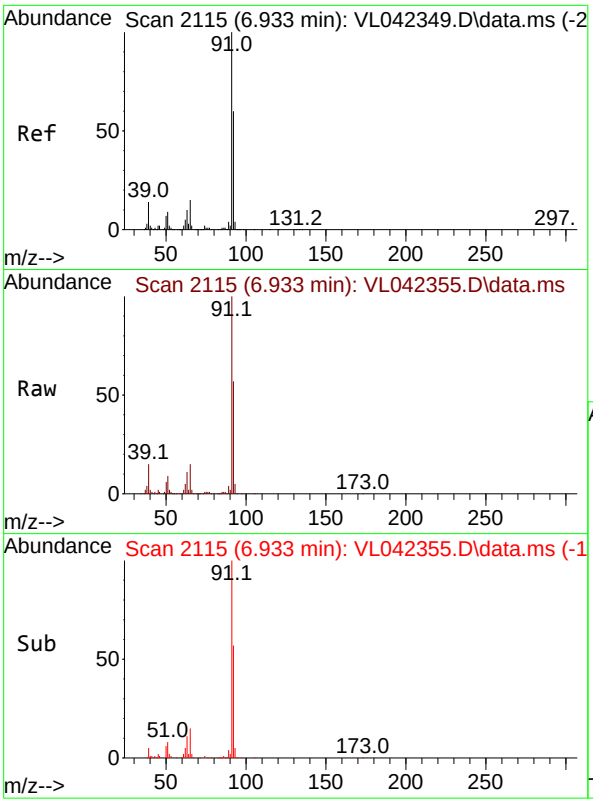




#52
Tetrachloroethene
Concen: 13.046 ppbv
RT: 8.225 min Scan# 2514
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:164 Resp: 180631

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 120.8 | 98.2 | 147.2 |
| 129 | 107.0 | 81.8 | 122.8 |
| 131 | 102.0 | 80.5 | 120.7 |



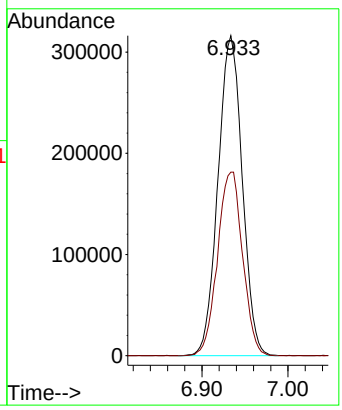


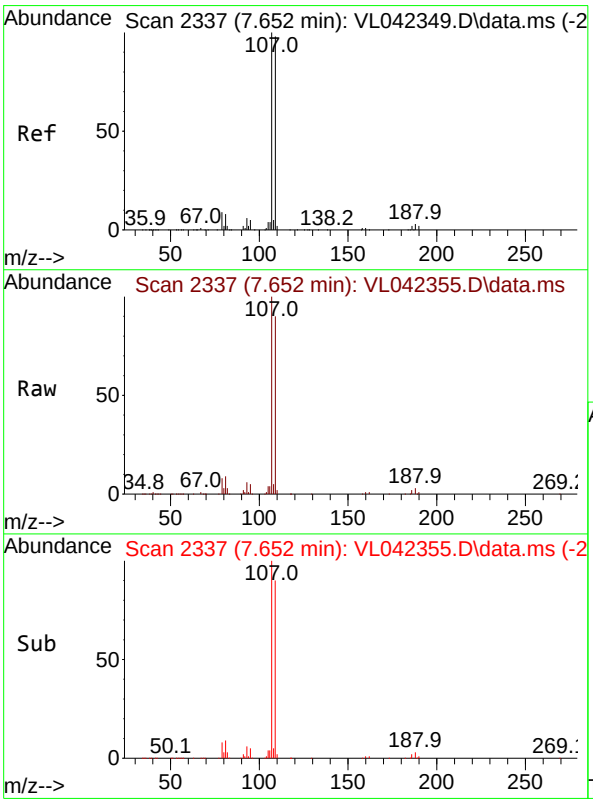

#53
Toluene
Concen: 14.411 ppbv
RT: 6.933 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion: 91 Resp: 619420

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 59.3 | 48.2 | 72.4 |

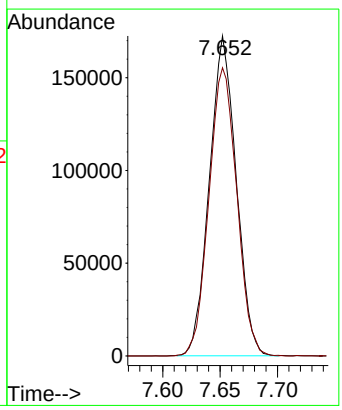


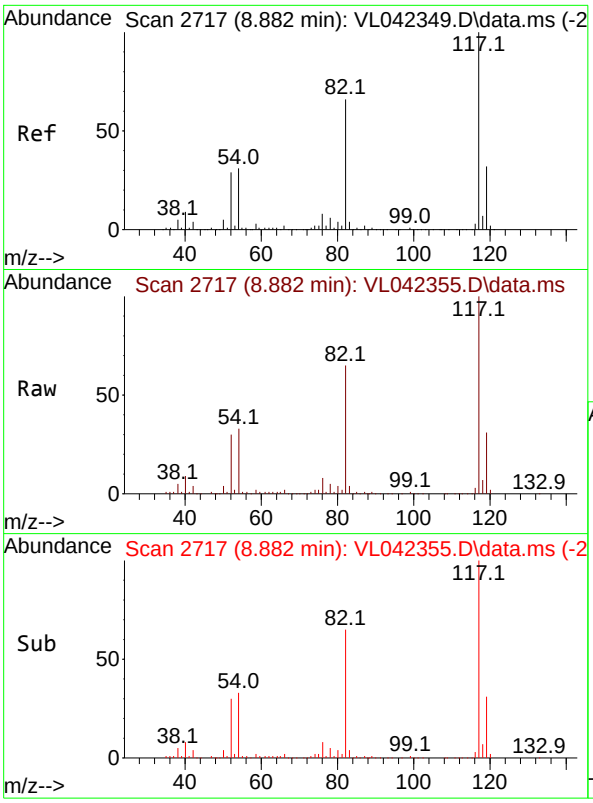




#54
1,2-Dibromoethane
Concen: 14.442 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:107 Resp: 280071

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 89.9 | 78.2 | 117.4 |



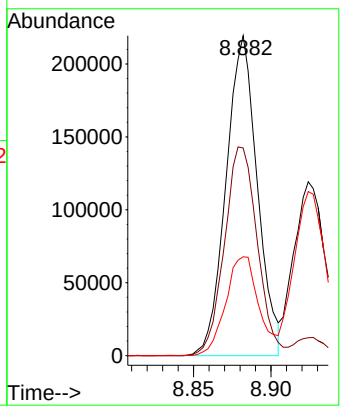


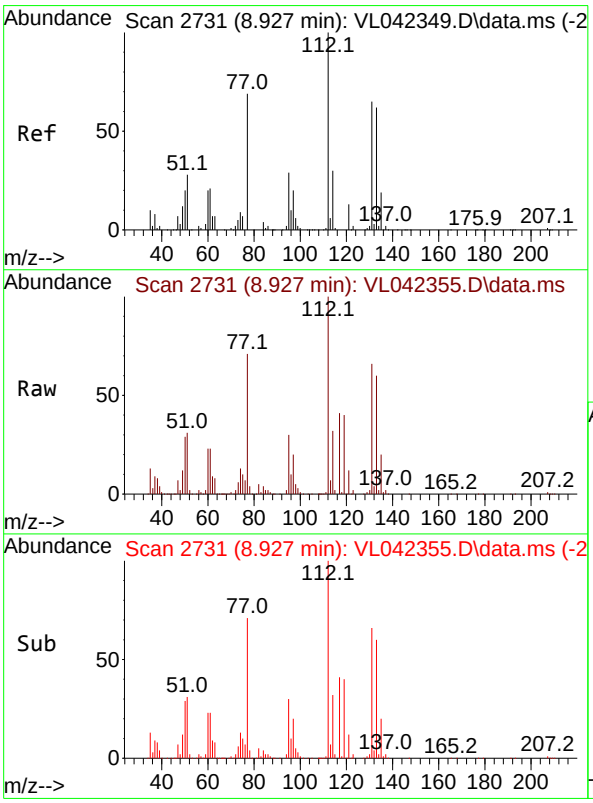

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion:117 Resp: 308463

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 74.2 | 57.8 | 86.6 |
| 119 | 31.4 | 25.2 | 37.8 |

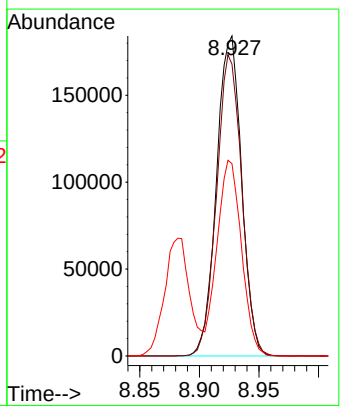


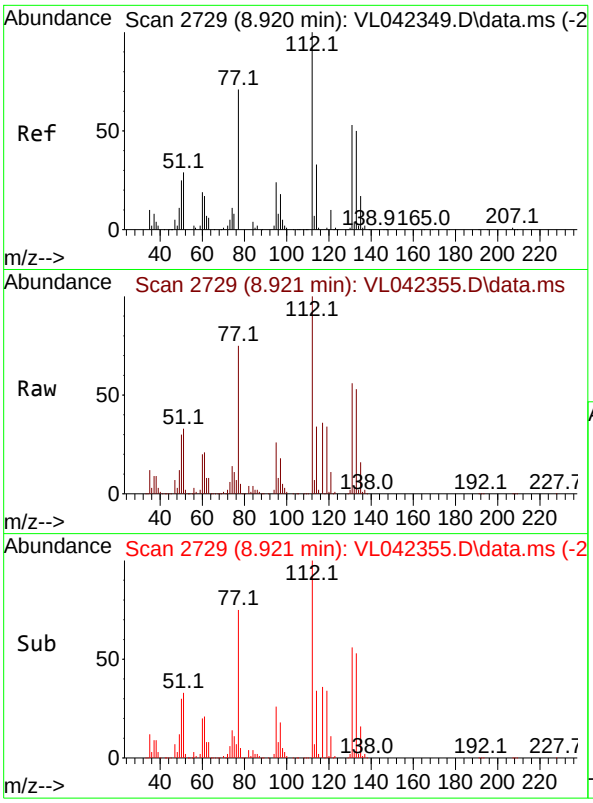




#56
1,1,1,2-Tetrachloroethane
Concen: 14.389 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:131 Resp: 268626

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.6 | 78.3 | 117.5 |
| 119 | 59.4 | 48.7 | 73.1 |



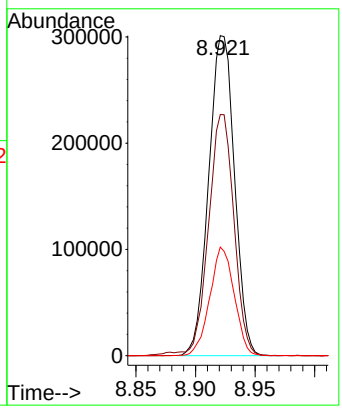


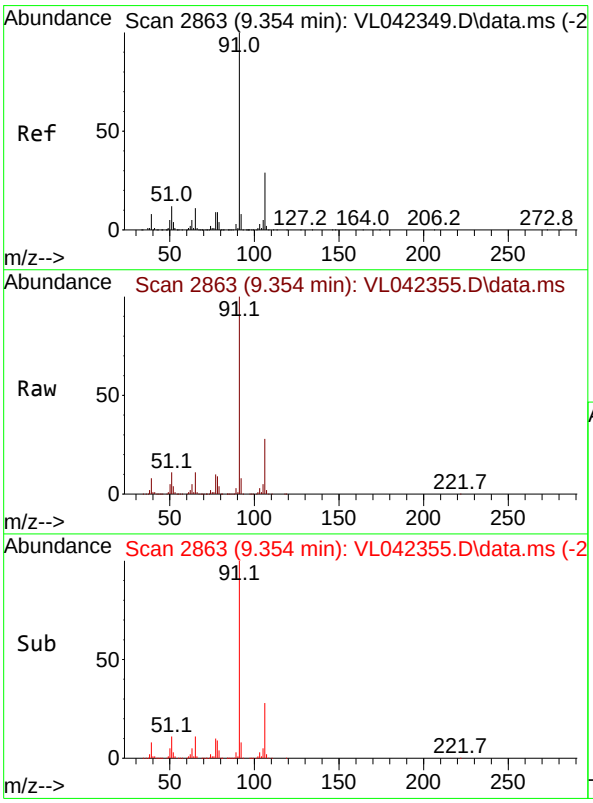

#57
Chlorobenzene
Concen: 14.151 ppbv
RT: 8.921 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion:112 Resp: 454017

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 75.3 | 57.8 | 86.6 |
| 114 | 33.9 | 29.3 | 35.9 |

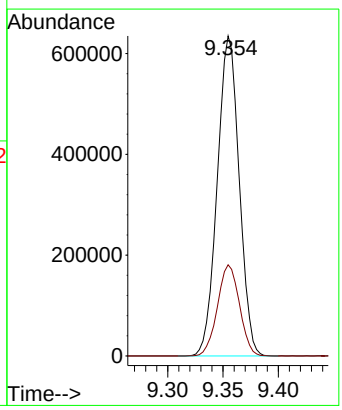


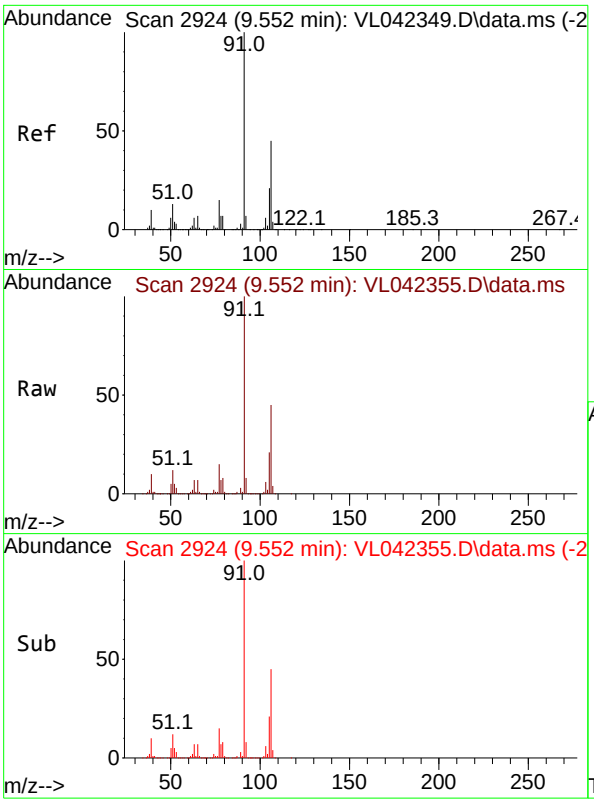




#58
Ethyl Benzene
Concen: 14.308 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 91 Resp: 874424

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 28.5 | 23.0 | 34.4 |



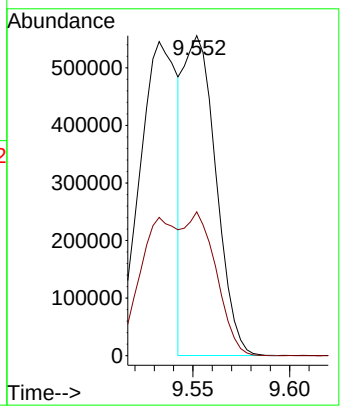


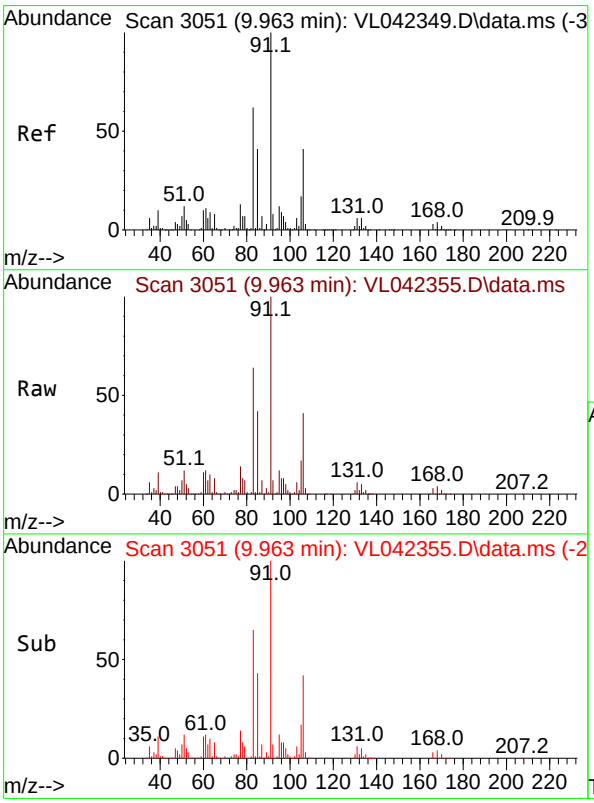

#59
m/p-Xylene
Concen: 13.067 ppbv
RT: 9.552 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion: 91 Resp: 645250

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 95.8 | 35.4 | 53.2# |

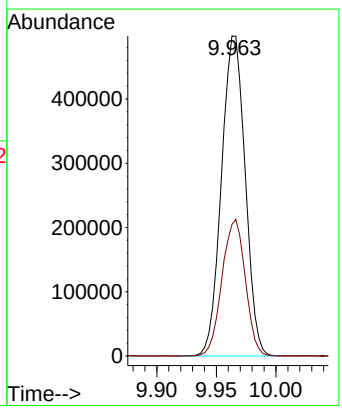


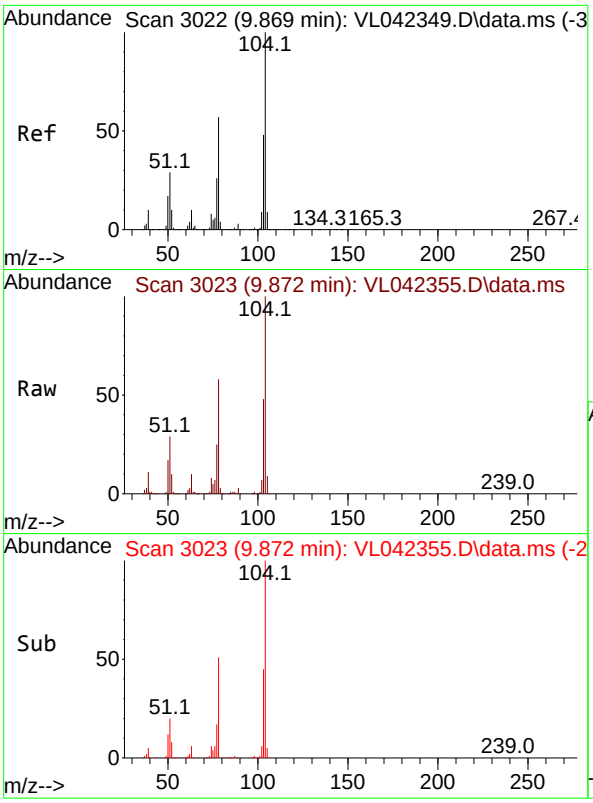




#60
o-Xylene
Concen: 13.902 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 91 Resp: 689246

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 41.9 | 21.1 | 63.4 |



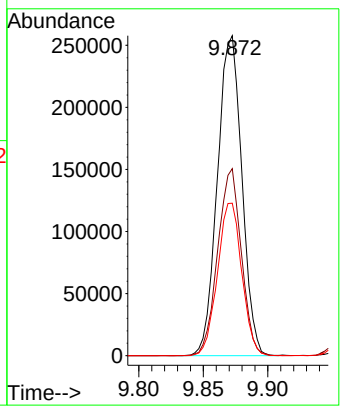


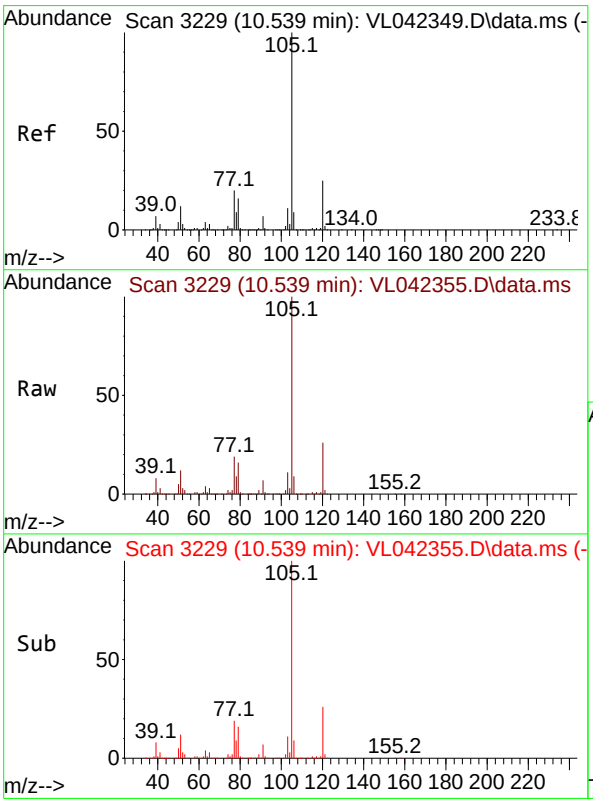

#61
Styrene
Concen: 14.347 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion:104 Resp: 339508

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 56.4 | 44.6 | 66.8 |
| 103 | 47.3 | 37.4 | 56.0 |

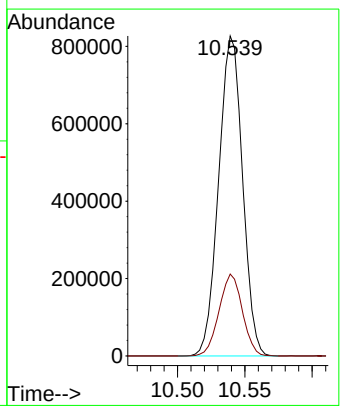


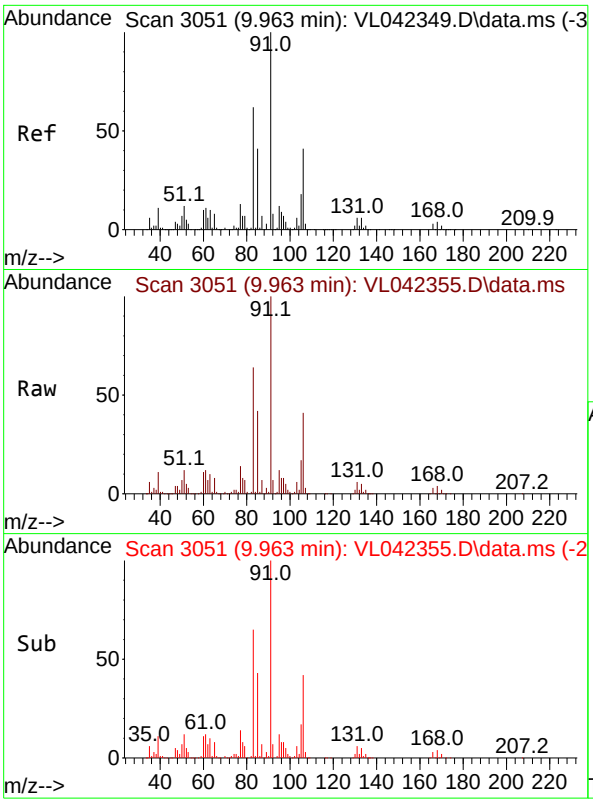




#62
Isopropylbenzene
Concen: 13.999 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:105 Resp: 1018968

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.0 | 19.8 | 29.8 |



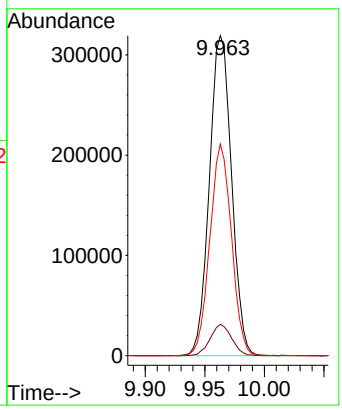


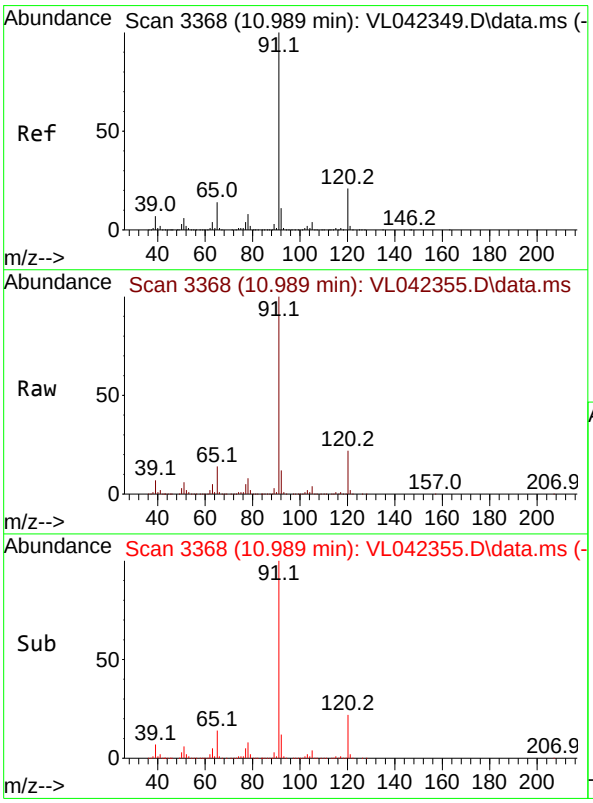

#63
1,1,2,2-Tetrachloroethane
Concen: 12.816 ppbv
RT: 9.963 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion: 83 Resp: 412898

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.5 | 4.5 | 13.7 |
| 85 | 64.5 | 32.4 | 97.0 |

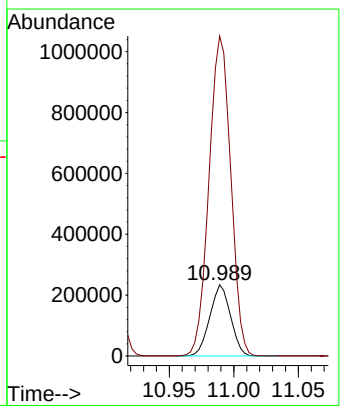


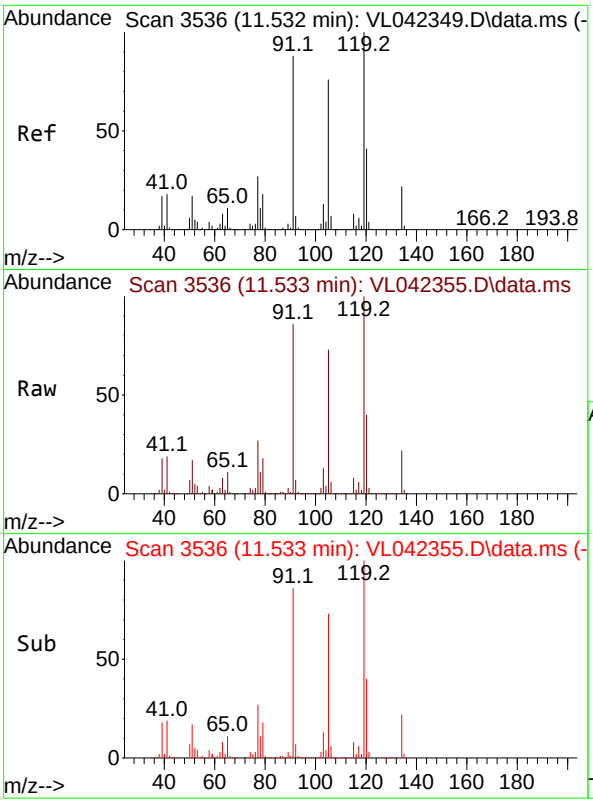




#64
n-propylbenzene
Concen: 14.255 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:120 Resp: 260812

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 473.2 | 392.4 | 588.6 |



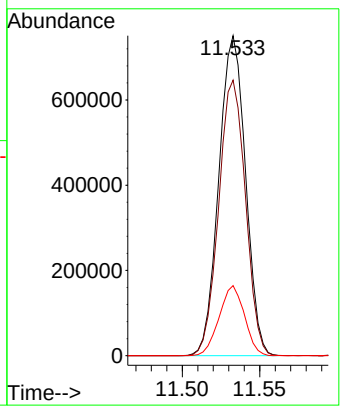


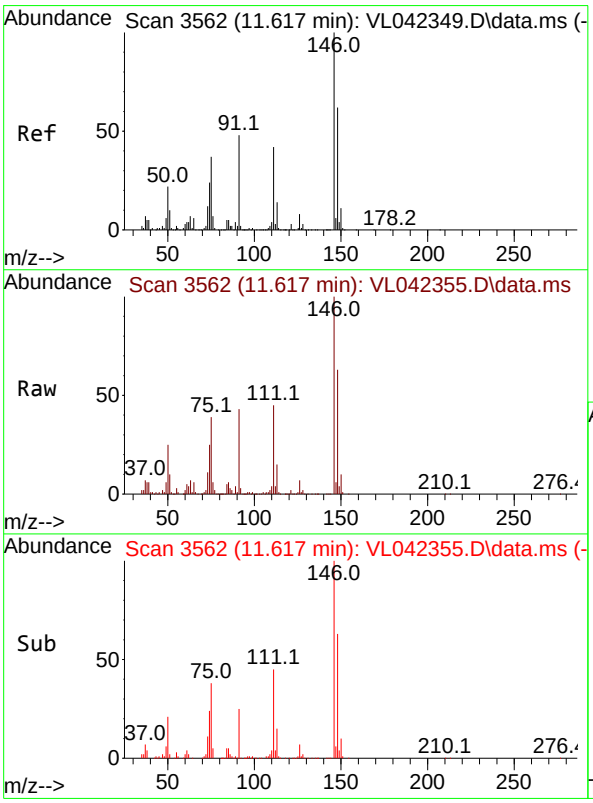

#65
tert-Butylbenzene
Concen: 13.449 ppbv
RT: 11.533 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion:119 Resp: 899720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 86.2 | 74.6 | 111.8 |
| 134 | 20.8 | 18.8 | 28.2 |

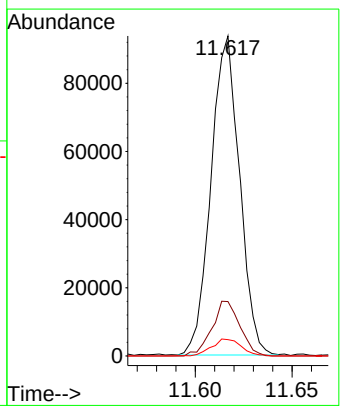


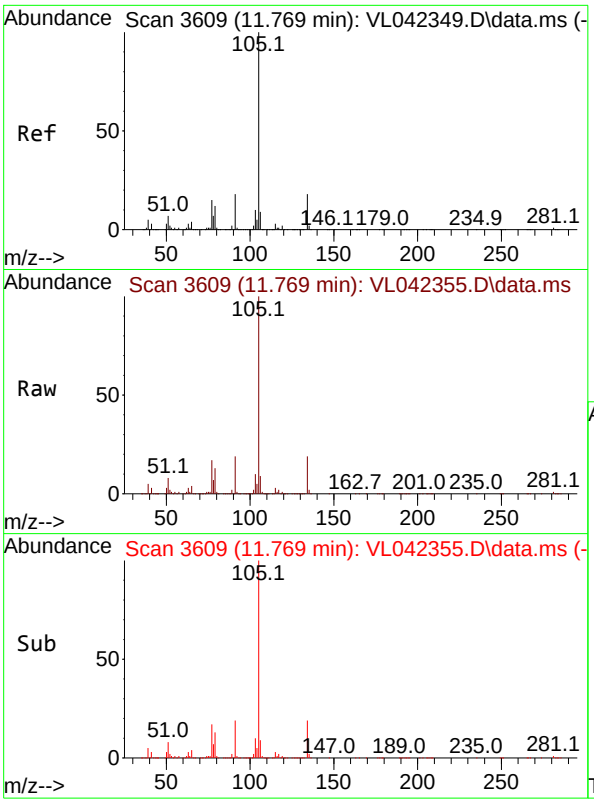




#66
Benzyl Chloride
Concen: 13.061 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 91 Resp: 96016

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 16.8 | 11.8 | 17.6 |
| 128 | 5.5 | 4.5 | 6.7 |



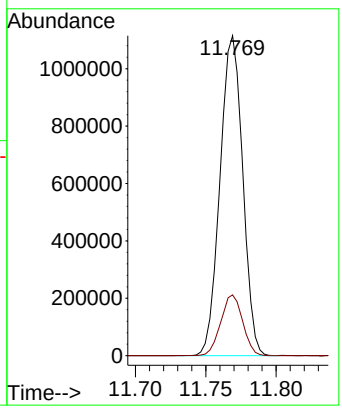


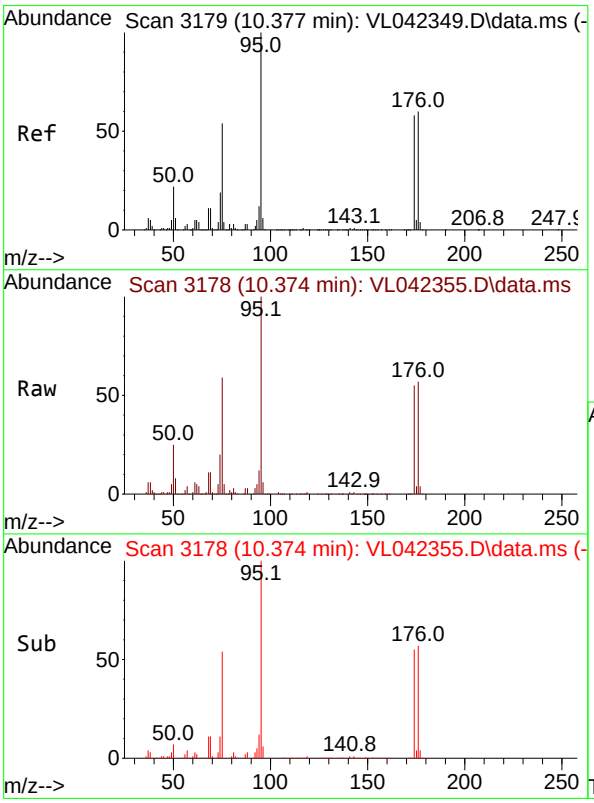

#67
sec-Butylbenzene
Concen: 13.468 ppbv
RT: 11.769 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion:105 Resp: 1253263

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 18.4 | 14.6 | 21.8 |

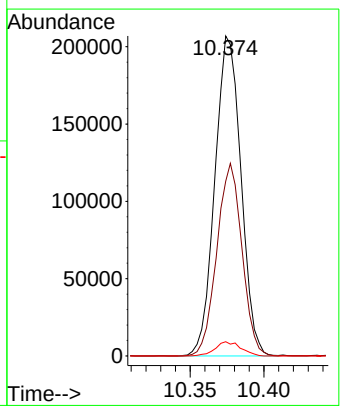


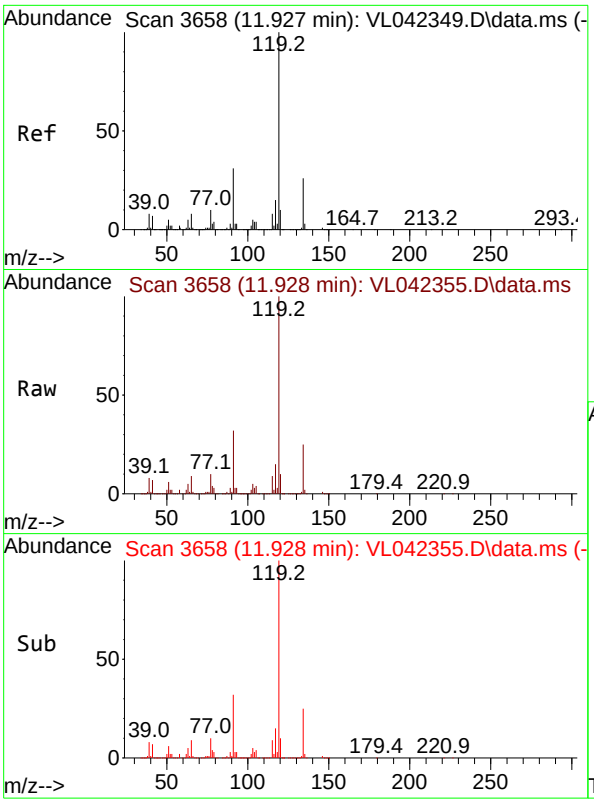




#68
1-Bromo-4-Fluorobenzene
Concen: 10.038 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 95 Resp: 254437

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 58.1 | 48.5 | 72.7 |
| 175 | 4.4 | 3.7 | 5.5 |



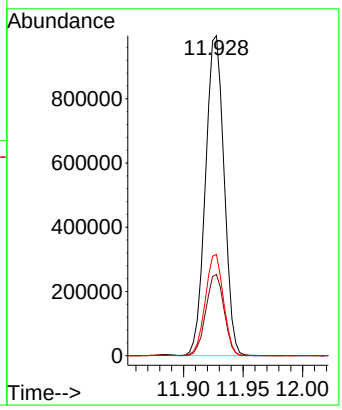


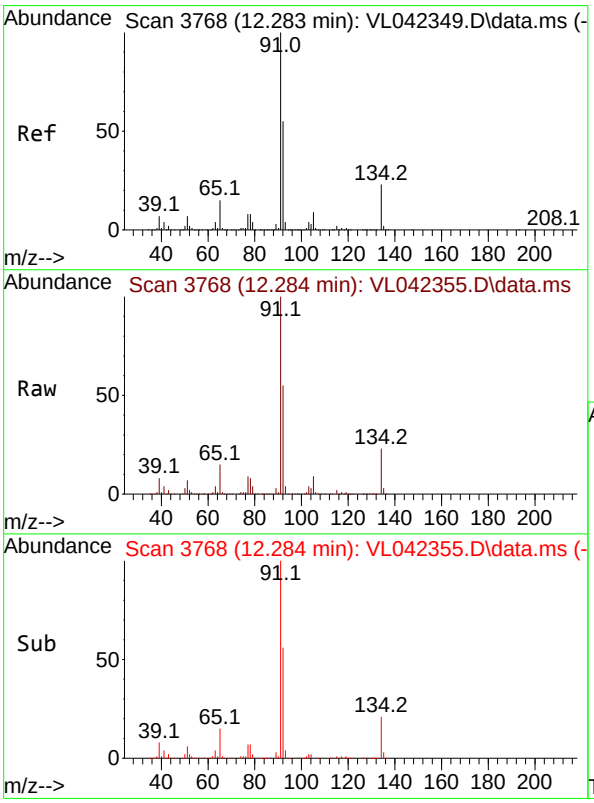

#69
p-Isopropyltoluene
Concen: 13.382 ppbv
RT: 11.928 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion:119 Resp: 1081850

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.0 | 20.0 | 30.0 |
| 91 | 31.1 | 24.4 | 36.6 |

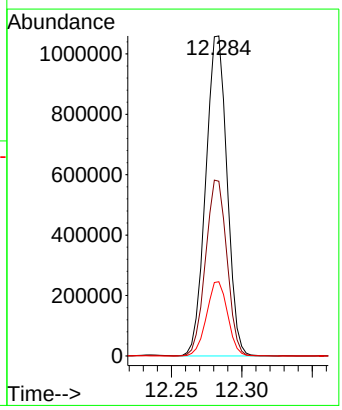


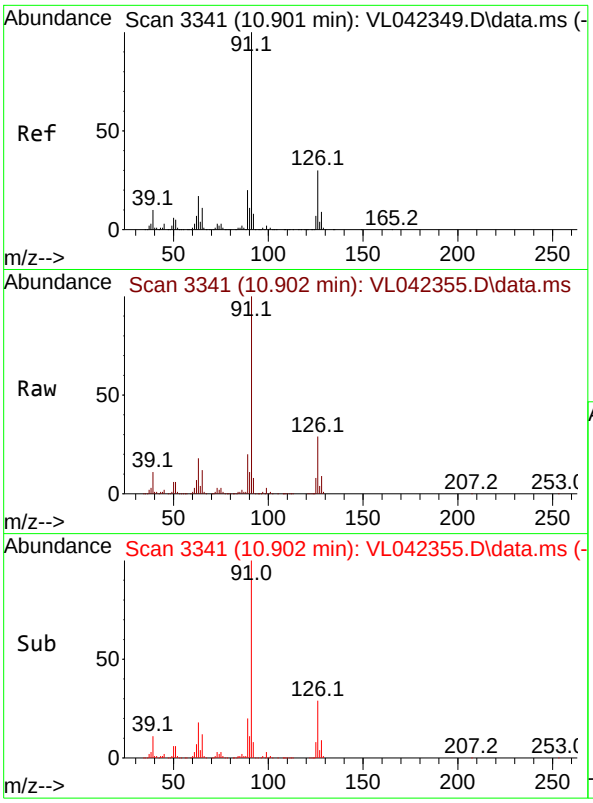




#70
n-Butylbenzene
Concen: 13.266 ppbv
RT: 12.284 min Scan# 3768
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 91 Resp: 1117042

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 55.3 | 44.2 | 66.4 |
| 134 | 23.0 | 18.2 | 27.4 |



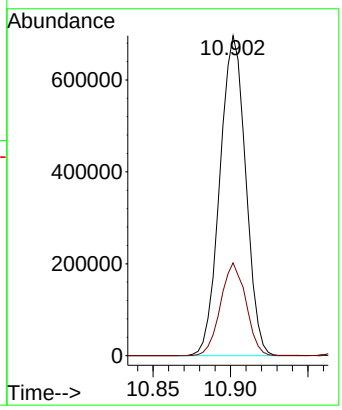


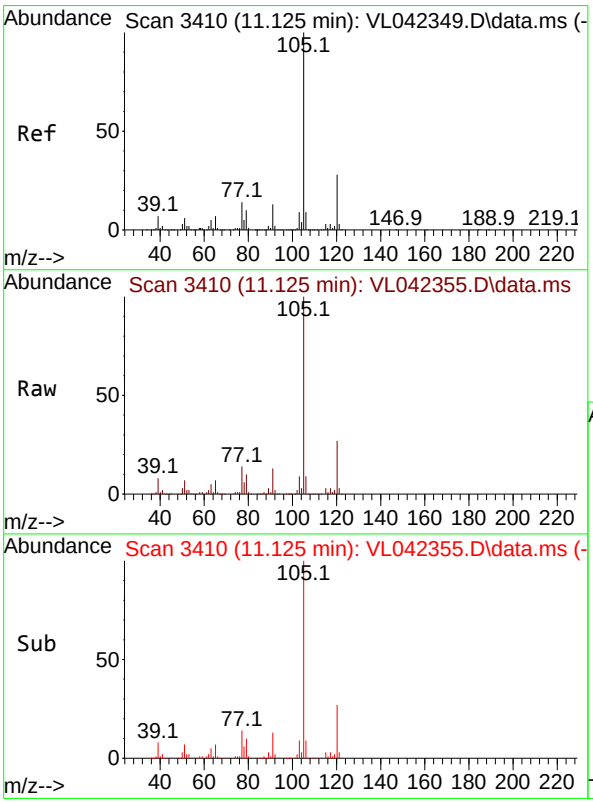

#71
2-Chlorotoluene
Concen: 14.131 ppbv
RT: 10.902 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion: 91 Resp: 806728

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 28.4 | 11.4 | 45.4 |

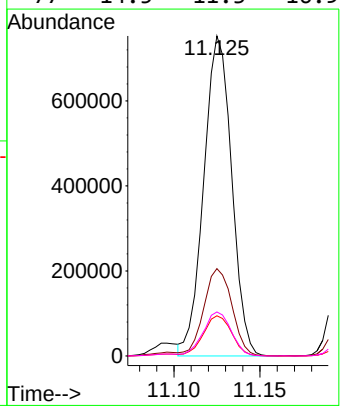


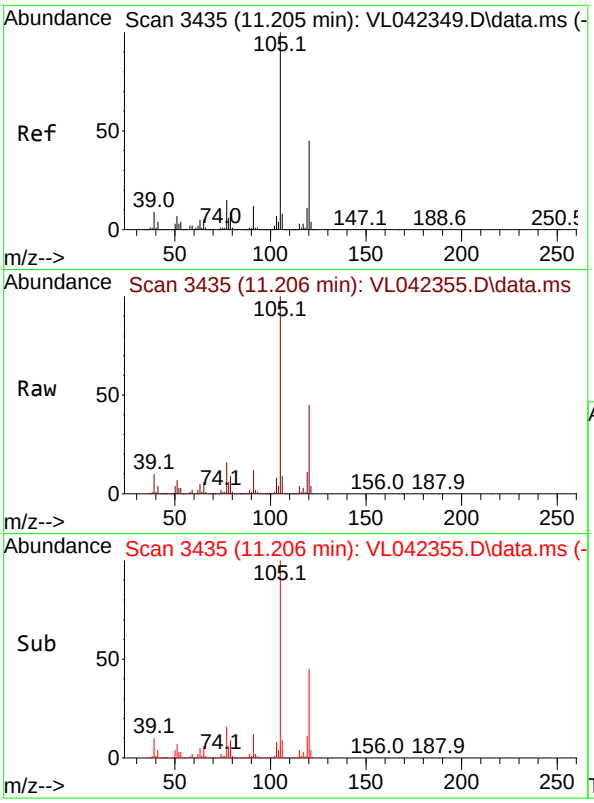




#72
4-Ethyltoluene
Concen: 13.992 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:105 Resp: 848077

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 28.7 | 23.2 | 34.8 |
| 91 | 13.5 | 10.4 | 15.6 |
| 77 | 14.5 | 11.3 | 16.9 |



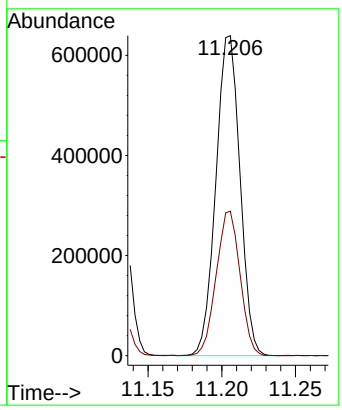


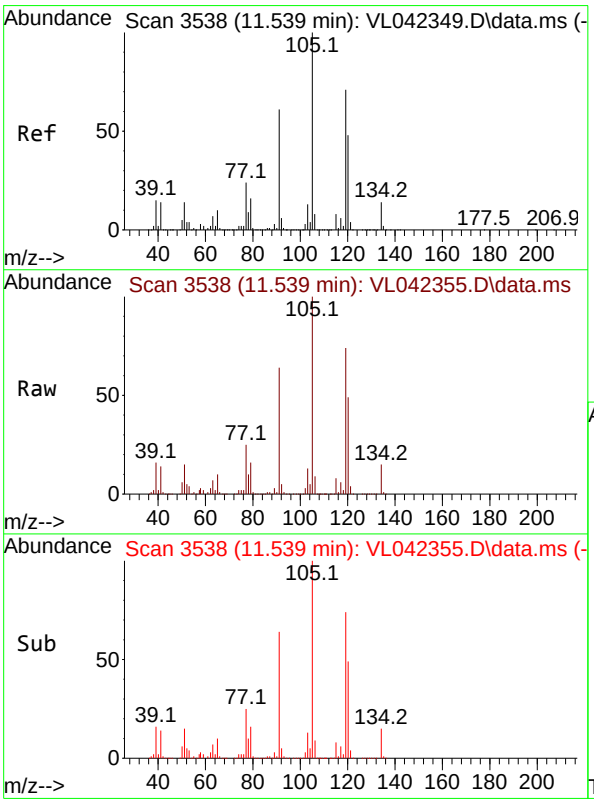

#73
1,3,5-Trimethylbenzene
Concen: 13.578 ppbv
RT: 11.206 min Scan# 34
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion:105 Resp: 726558

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.1 | 35.6 | 53.4 |

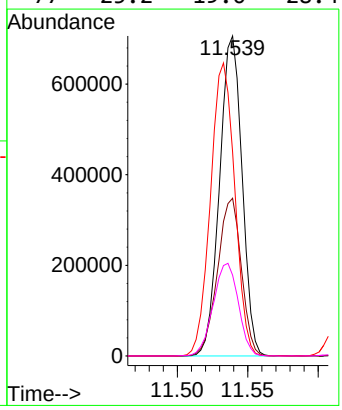


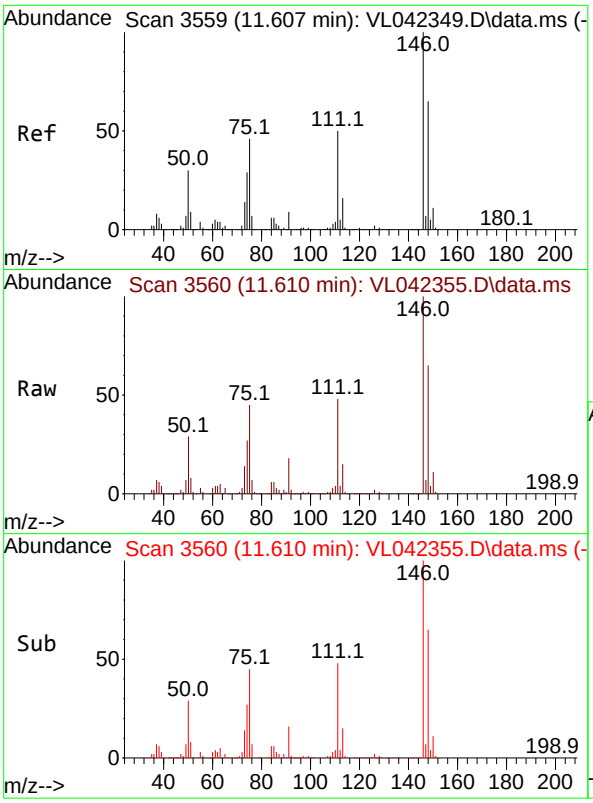




#74
1,2,4-Trimethylbenzene
Concen: 12.572 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:105 Resp: 785772

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 49.3 | 38.1 | 57.1 |
| 91 | 63.7 | 48.8 | 73.2 |
| 77 | 25.2 | 19.0 | 28.4 |



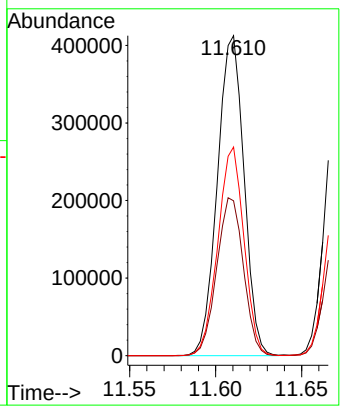


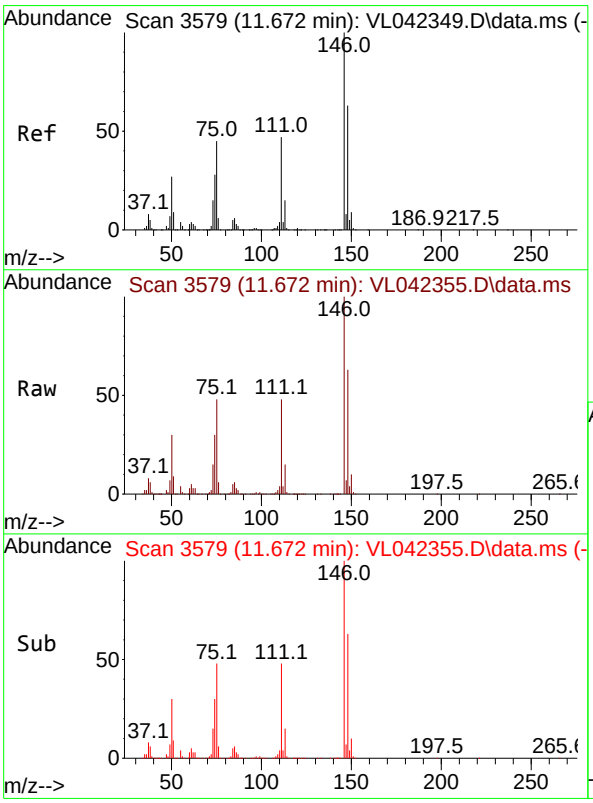

#75
1,3-Dichlorobenzene
Concen: 13.670 ppbv
RT: 11.610 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion:146 Resp: 444086

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 49.6 | 24.3 | 72.8 |
| 148 | 63.9 | 31.6 | 94.8 |

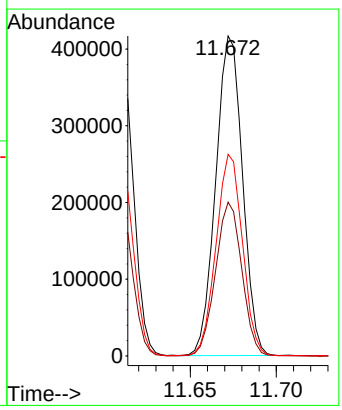


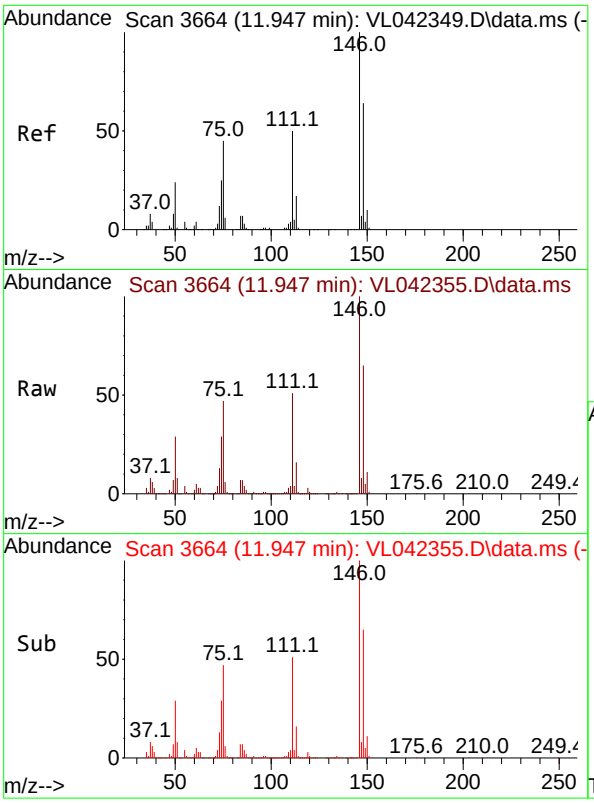




#76
1,4-Dichlorobenzene
Concen: 13.802 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:146 Resp: 450662

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 47.4 | 24.2 | 72.6 |
| 148 | 62.6 | 32.1 | 96.5 |



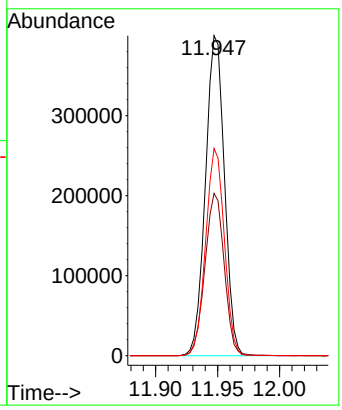


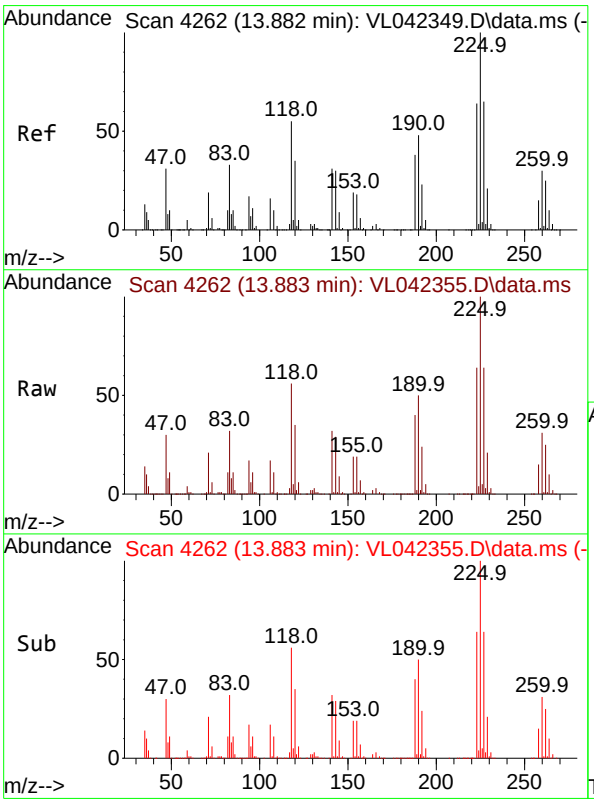

#77
1,2-Dichlorobenzene
Concen: 13.529 ppbv
RT: 11.947 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion:146 Resp: 427372

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 51.3 | 25.3 | 75.9 |
| 148 | 63.8 | 31.5 | 94.5 |

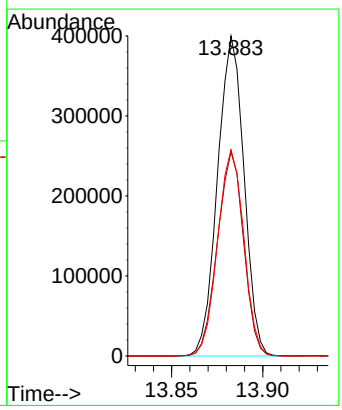


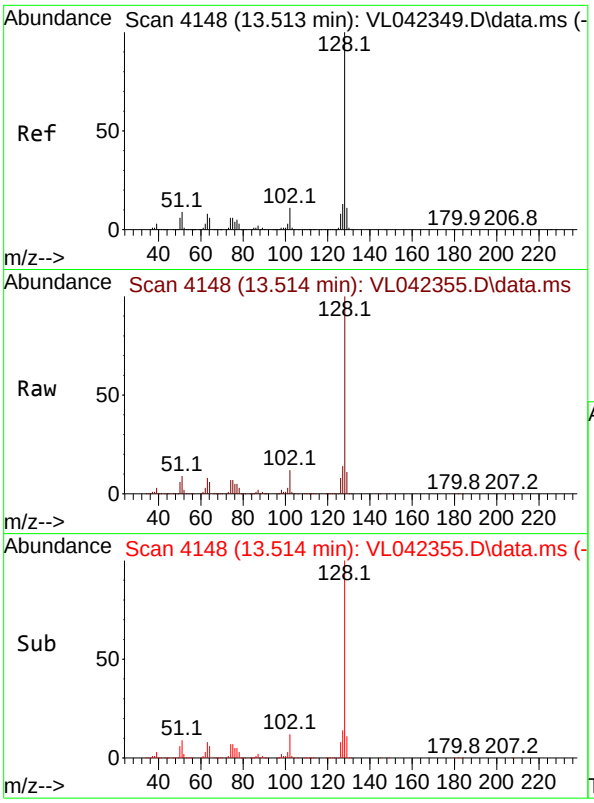




#78
Hexachloro-1,3-Butadiene
Concen: 12.679 ppbv
RT: 13.883 min Scan# 4262
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:225 Resp: 404441

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.8 | 50.3 | 75.5 |
| 227 | 63.8 | 51.5 | 77.3 |



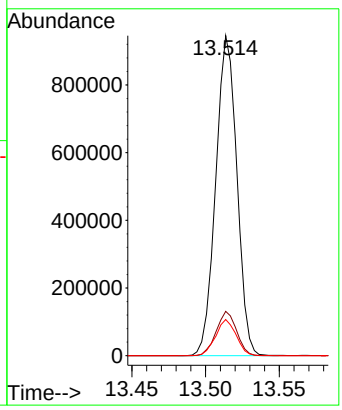


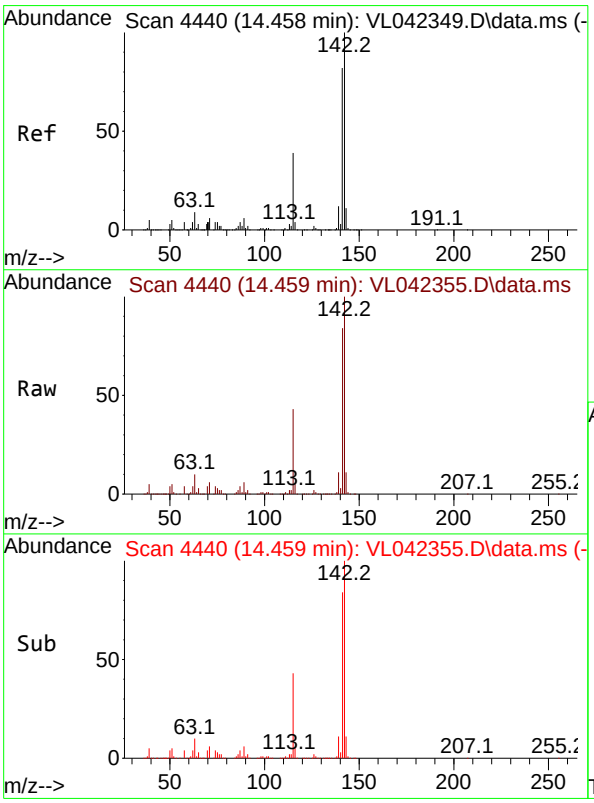

#79
Naphthalene
Concen: 12.632 ppbv
RT: 13.514 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion:128 Resp: 944085

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.9 | 10.6 | 15.8 |
| 129 | 11.3 | 8.6 | 12.8 |

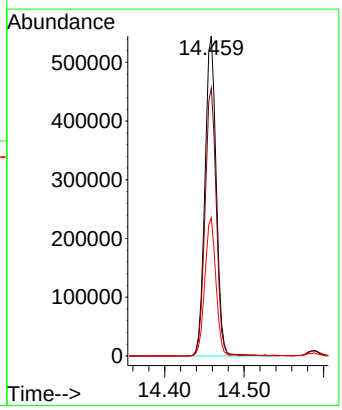


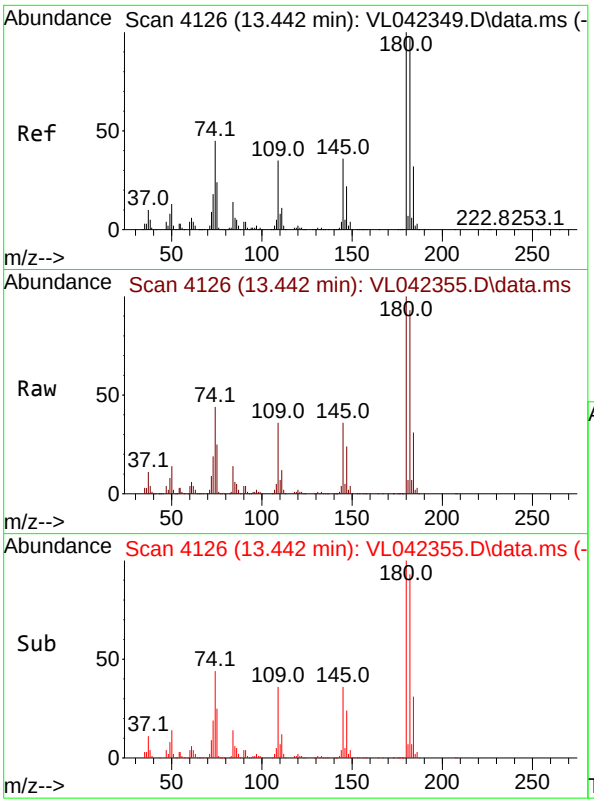




#80
Naphthalene,2-methyl-
Concen: 12.686 ppbv
RT: 14.459 min Scan# 4440
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:142 Resp: 540339

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 84.3 | 66.8 | 100.2 |
| 115 | 43.0 | 33.4 | 50.2 |



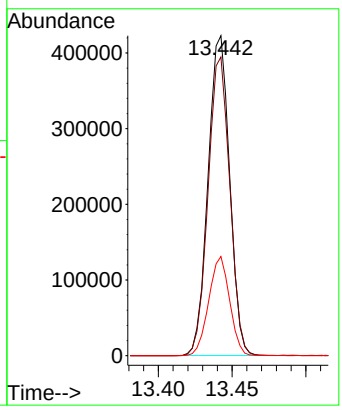



#81
1,2,4-Trichlorobenzene
Concen: 13.398 ppbv
RT: 13.442 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDICC015

Tgt Ion:180 Resp: 429982

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.3 | 76.8 | 115.2 |
| 184 | 30.2 | 24.6 | 36.8 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042356.D
Acq On : 17 Apr 2025 13:43
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

Quant Time: Apr 18 02:15:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.787 | 49 | 113992 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.958 | 114 | 324528 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.881 | 117 | 305357 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95 | 250149 | 9.969 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 99.700% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.499 | 85 | 197623 | 9.812 | ppbv | 100 |
| 3) Chlorodifluoromethane | 1.476 | 51 | 191010 | 9.960 | ppbv | 99 |
| 4) Chloromethane | 1.531 | 50 | 78080 | 9.796 | ppbv | 98 |
| 5) Vinyl Chloride | 1.580 | 62 | 75628 | 8.717 | ppbv | 97 |
| 6) Bromomethane | 1.667 | 94 | 35115 | 9.422 | ppbv | 84 |
| 7) Chloroethane | 1.703 | 64 | 30158 | 9.612 | ppbv | 99 |
| 8) Dichlorotetrafluoroethane | 1.554 | 85 | 172863 | 9.997 | ppbv | 98 |
| 9) Propene | 1.482 | 41 | 84636 | 9.690 | ppbv | 95 |
| 10) Heptane | 4.978 | 43 | 221840 | 9.041 | ppbv | 98 |
| 11) Trichlorofluoromethane | 1.877 | 101 | 187827 | 9.807 | ppbv | 99 |
| 12) 1,1,2-Trichlorotrifluo... | 2.140 | 101 | 148485 | 9.482 | ppbv | 100 |
| 13) Ethanol | 1.722 | 45 | 4171 | 3.005 | ppbv | 97 |
| 14) Bromoethene | 1.780 | 108 | 58320 | 9.880 | ppbv | 99 |
| 15) Acetone | 1.835 | 43 | 158708 | 8.505 | ppbv | 100 |
| 16) 1,3-Butadiene | 1.609 | 39 | 78804 | 8.829 | ppbv | 95 |
| 17) tert-Butyl alcohol | 2.039 | 59 | 218954 | 9.468 | ppbv | 99 |
| 18) 1,1-Dichloroethene | 2.033 | 96 | 67940 | 9.287 | ppbv | 94 |
| 19) Isopropyl Alcohol | 1.887 | 45 | 96365 | 9.296 | ppbv | 95 |
| 20) Methylene Chloride | 2.062 | 84 | 59203 | 8.101 | ppbv | 91 |
| 21) Allyl Chloride | 2.094 | 41 | 120704 | 9.368 | ppbv | 98 |
| 22) trans-1,2-Dichloroethene | 2.340 | 96 | 78070 | 9.373 | ppbv | 99 |
| 23) Vinyl Acetate | 2.463 | 43 | 73373 | 9.714 | ppbv | 99 |
| 24) 1,1-Dichloroethane | 2.408 | 63 | 155571 | 9.832 | ppbv | 100 |
| 25) Ethyl Acetate | 2.835 | 43 | 449014 | 9.759 | ppbv | 99 |
| 26) Hexane | 2.826 | 57 | 175752 | 9.439 | ppbv | 98 |
| 27) Carbon Disulfide | 2.149 | 76 | 191117 | 9.587 | ppbv | 100 |
| 28) Methyl tert-Butyl Ether | 2.441 | 73 | 115190 | 9.442 | ppbv | 94 |
| 29) Chloroform | 2.848 | 83 | 260855 | 9.912 | ppbv | 98 |
| 30) Cyclohexane | 3.855 | 84 | 148246 | 9.849 | ppbv | 99 |
| 31) cis-1,2-Dichloroethene | 2.719 | 61 | 179993 | 10.167 | ppbv | 99 |
| 32) 1,1,1-Trichloroethane | 3.369 | 97 | 276599 | 9.336 | ppbv | 98 |
| 34) 2-Butanone | 2.557 | 43 | 248969 | 9.700 | ppbv | 99 |
| 35) Carbon Tetrachloride | 3.764 | 117 | 271862 | 9.256 | ppbv | 98 |
| 36) Benzene | 3.657 | 78 | 350545 | 10.014 | ppbv | 99 |
| 37) 1,2-Dichloroethane | 3.217 | 62 | 211790 | 10.081 | ppbv | 99 |
| 38) Trichloroethene | 4.551 | 130 | 139872 | 9.143 | ppbv | 96 |
| 39) 1,2-Dichloropropane | 4.315 | 63 | 129239 | 9.908 | ppbv | 99 |
| 40) 1,4-Dioxane | 4.583 | 88 | 61587 | 8.591 | ppbv # | 96 |
| 41) Tetrahydrofuran | 3.052 | 42 | 141861 | 9.479 | ppbv | 99 |
| 42) Bromodichloromethane | 4.489 | 83 | 296946 | 10.156 | ppbv | 96 |
| 43) Methyl Methacrylate | 4.878 | 69 | 149209 | 9.458 | ppbv | 96 |
| 44) 2,2,4-Trimethylpentane | 4.641 | 57 | 606376 | 10.030 | ppbv | 99 |
| 45) t-1,3-Dichloropropene | 6.412 | 75 | 160750 | 9.975 | ppbv | 99 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042356.D
Acq On : 17 Apr 2025 13:43
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

Quant Time: Apr 18 02:15:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.599 | 75 | 200144 | 10.148 | ppbv | | 88 |
| 47) 1,1,2-Trichloroethane | 6.583 | 97 | 135575 | 10.202 | ppbv | | 95 |
| 48) Dibromochloromethane | 7.389 | 129 | 237206 | 10.103 | ppbv | | 100 |
| 49) Bromoform | 9.483 | 173 | 205630 | 10.016 | ppbv | | 99 |
| 50) 4-Methyl-2-Pentanone | 5.748 | 43 | 376145 | 8.819 | ppbv | | 99 |
| 51) 2-Hexanone | 7.435 | 43 | 310521 | 8.118 | ppbv | # | 99 |
| 52) Tetrachloroethene | 8.224 | 164 | 119424 | 8.827 | ppbv | | 94 |
| 53) Toluene | 6.933 | 91 | 419462 | 9.986 | ppbv | | 99 |
| 54) 1,2-Dibromoethane | 7.652 | 107 | 186231 | 9.792 | ppbv | | 98 |
| 56) 1,1,1,2-Tetrachloroethane | 8.927 | 131 | 182712 | 9.886 | ppbv | | 97 |
| 57) Chlorobenzene | 8.920 | 112 | 304533 | 9.589 | ppbv | | 96 |
| 58) Ethyl Benzene | 9.354 | 91 | 583515 | 9.645 | ppbv | | 99 |
| 59) m/p-Xylene | 9.551 | 91 | 442744 | 9.084 | ppbv | # | 26 |
| 60) o-Xylene | 9.966 | 91 | 464522 | 9.465 | ppbv | | 99 |
| 61) Styrene | 9.872 | 104 | 229869 | 9.813 | ppbv | | 98 |
| 62) Isopropylbenzene | 10.539 | 105 | 685965 | 9.520 | ppbv | | 100 |
| 63) 1,1,2,2-Tetrachloroethane | 9.962 | 83 | 279007 | 8.773 | ppbv | | 100 |
| 64) n-propylbenzene | 10.992 | 120 | 172654 | 9.533 | ppbv | | 99 |
| 65) tert-Butylbenzene | 11.532 | 119 | 609500 | 9.203 | ppbv | | 93 |
| 66) Benzyl Chloride | 11.613 | 91 | 63051 | 8.664 | ppbv | | 95 |
| 67) sec-Butylbenzene | 11.769 | 105 | 853807 | 9.268 | ppbv | | 99 |
| 69) p-Isopropyltoluene | 11.927 | 119 | 737861 | 9.220 | ppbv | | 99 |
| 70) n-Butylbenzene | 12.283 | 91 | 771461 | 9.255 | ppbv | | 100 |
| 71) 2-Chlorotoluene | 10.901 | 91 | 543794 | 9.622 | ppbv | | 98 |
| 72) 4-Ethyltoluene | 11.124 | 105 | 563136 | 9.385 | ppbv | | 100 |
| 73) 1,3,5-Trimethylbenzene | 11.205 | 105 | 486583 | 9.186 | ppbv | | 99 |
| 74) 1,2,4-Trimethylbenzene | 11.539 | 105 | 531576 | 8.592 | ppbv | | 97 |
| 75) 1,3-Dichlorobenzene | 11.610 | 146 | 297157 | 9.240 | ppbv | | 99 |
| 76) 1,4-Dichlorobenzene | 11.671 | 146 | 297697 | 9.210 | ppbv | | 98 |
| 77) 1,2-Dichlorobenzene | 11.950 | 146 | 289284 | 9.251 | ppbv | | 100 |
| 78) Hexachloro-1,3-Butadiene | 13.882 | 225 | 276960 | 8.771 | ppbv | | 100 |
| 79) Naphthalene | 13.513 | 128 | 647349 | 8.750 | ppbv | | 99 |
| 80) Naphthalene,2-methyl- | 14.458 | 142 | 350259 | 8.307 | ppbv | | 99 |
| 81) 1,2,4-Trichlorobenzene | 13.442 | 180 | 290260 | 9.136 | ppbv | | 99 |

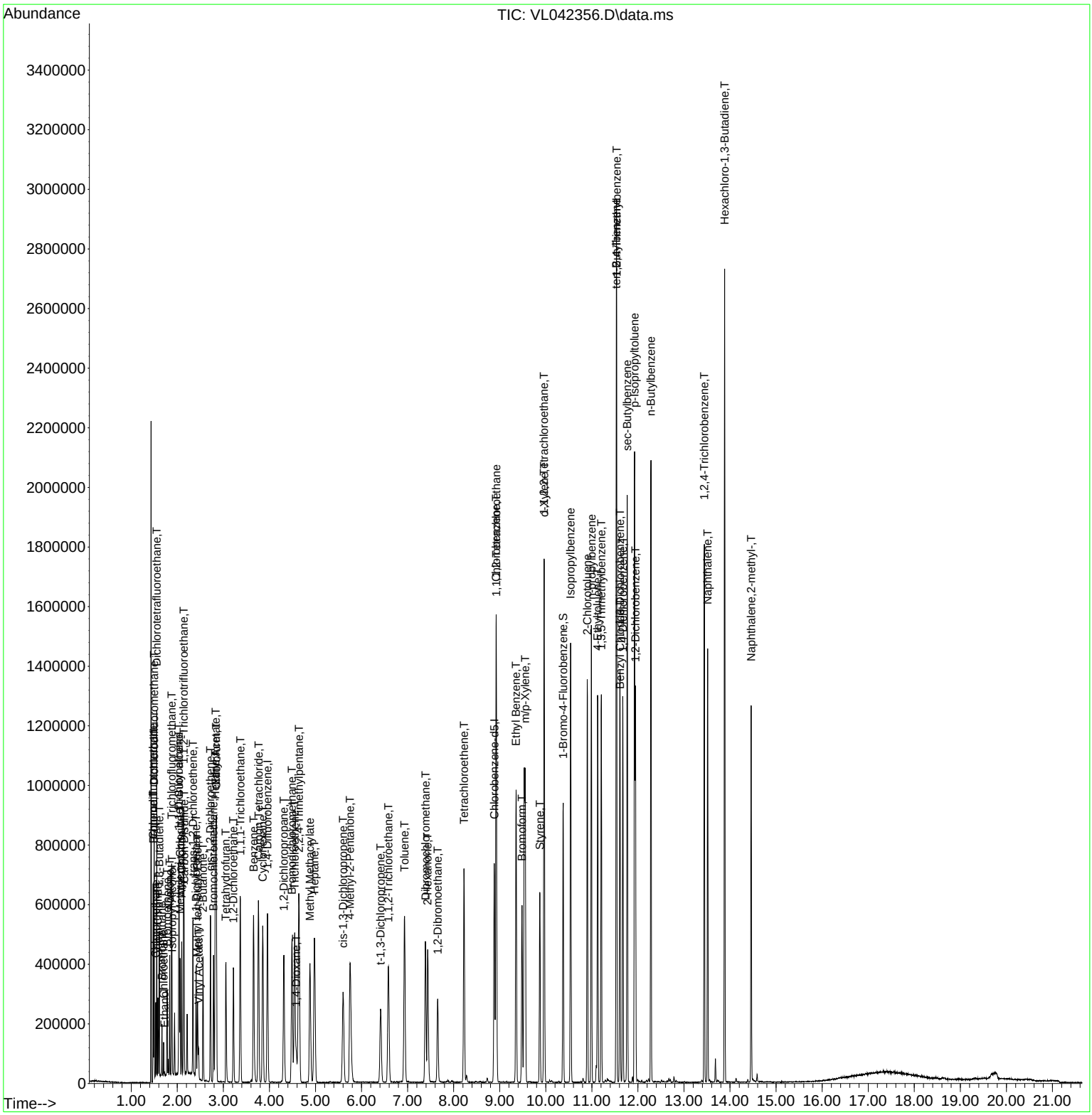
(#) = qualifier out of range (m) = manual integration (+) = signals summed

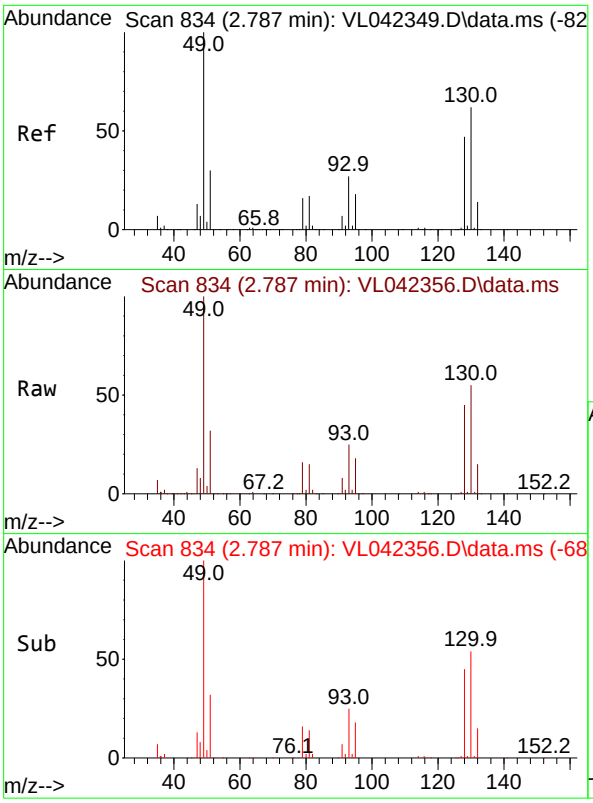
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042356.D
Acq On : 17 Apr 2025 13:43
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

Quant Time: Apr 18 02:15:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration



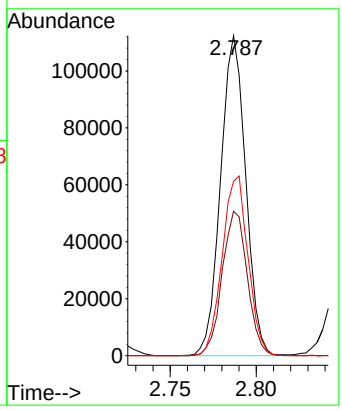


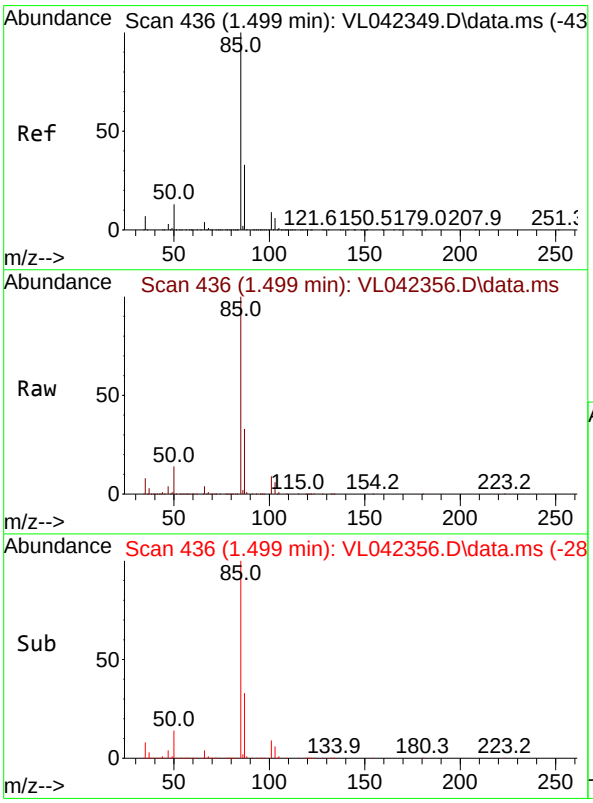

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

Tgt Ion: 49 Resp: 113992

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 45.5 | 22.8 | 68.4 |
| 130 | 57.8 | 29.3 | 88.0 |

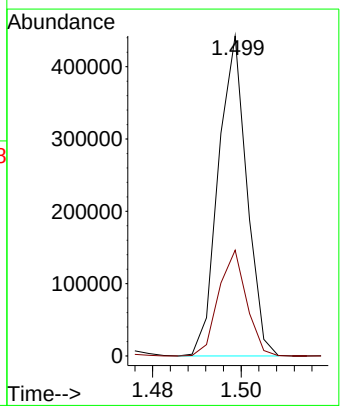


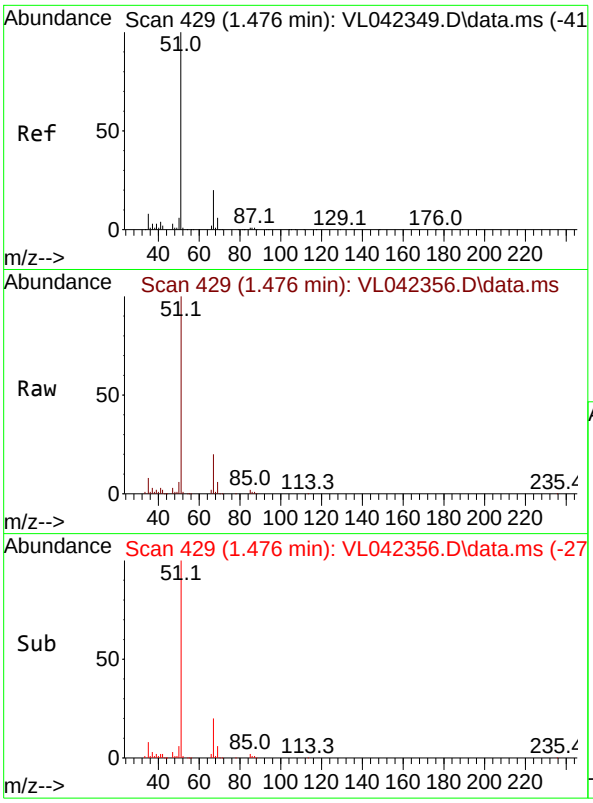




#2
Dichlorodifluoromethane
Concen: 9.812 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 85 Resp: 197623

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.1 | 26.6 | 39.8 |



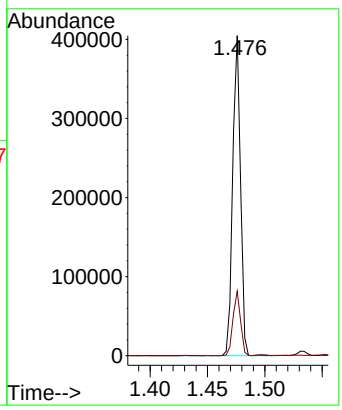


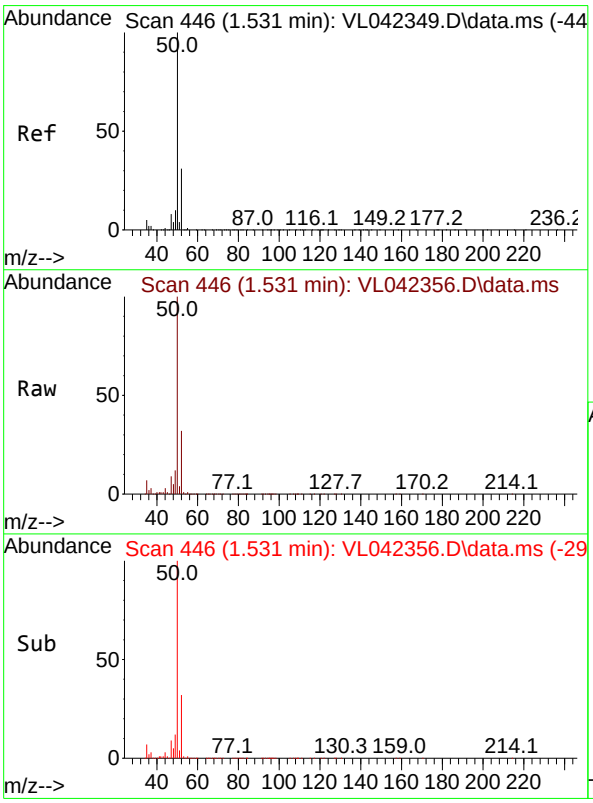

#3
Chlorodifluoromethane
Concen: 9.960 ppbv
RT: 1.476 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

Tgt Ion: 51 Resp: 191010

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 19.6 | 16.2 | 24.4 |

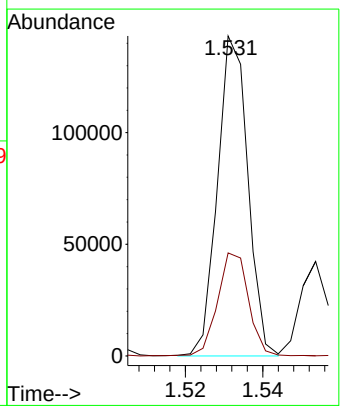


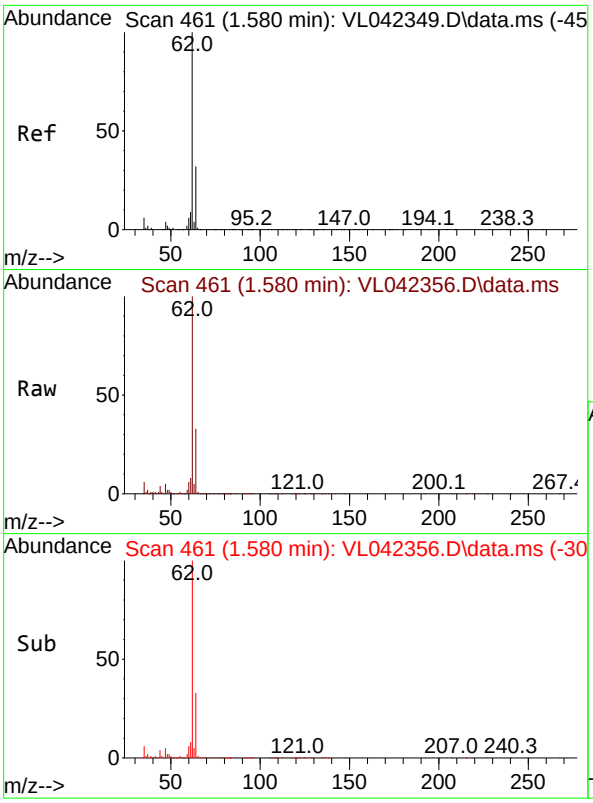




#4
Chloromethane
Concen: 9.796 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 50 Resp: 78080

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.0 | 24.7 | 37.1 |



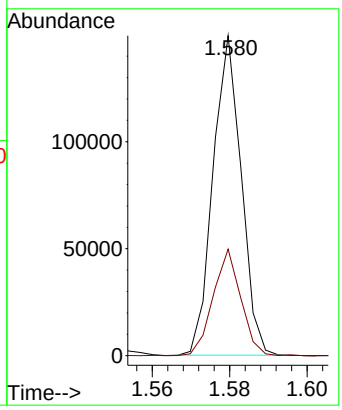


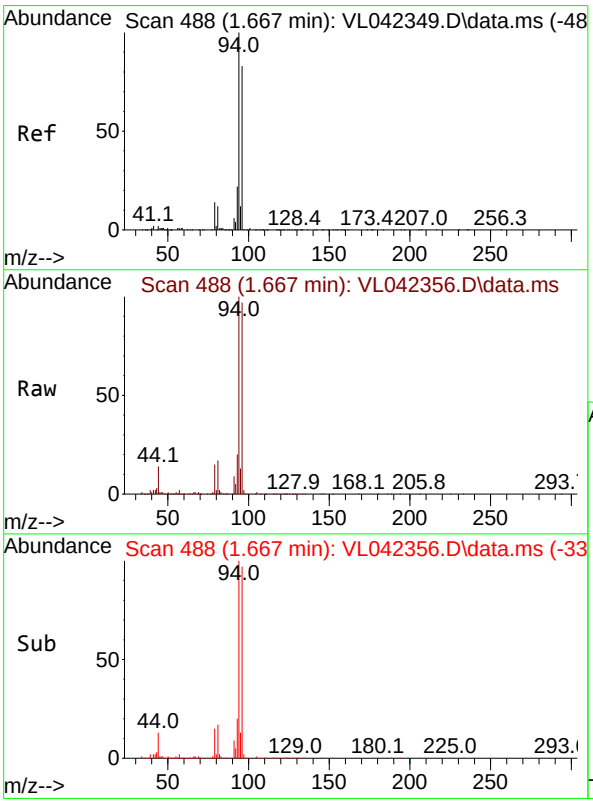

#5
Vinyl Chloride
Concen: 8.717 ppbv
RT: 1.580 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

Tgt Ion: 62 Resp: 75628

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 33.3 | 25.4 | 38.0 |

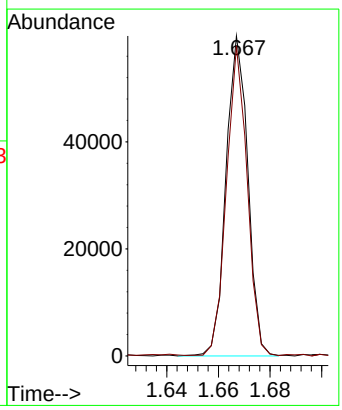


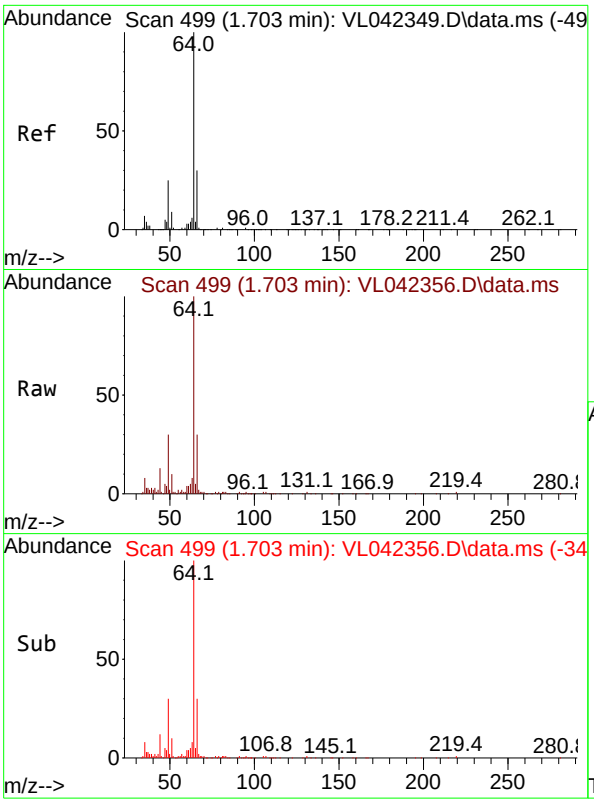




#6
Bromomethane
Concen: 9.422 ppbv
RT: 1.667 min Scan# 488
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 94 Resp: 35115

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 96.8 | 66.2 | 99.2 |



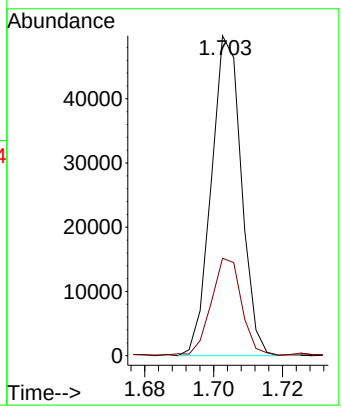


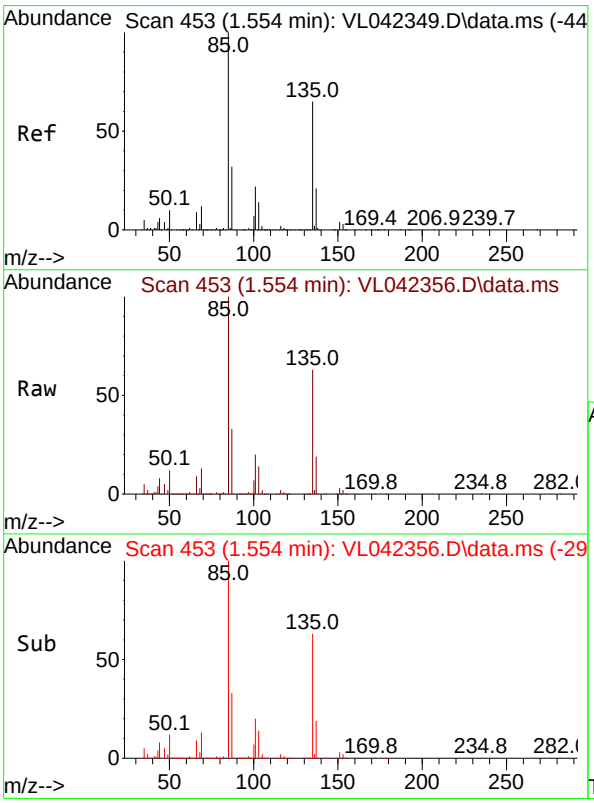

#7
Chloroethane
Concen: 9.612 ppbv
RT: 1.703 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

Tgt Ion: 64 Resp: 30158

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 30.4 | 24.6 | 37.0 |

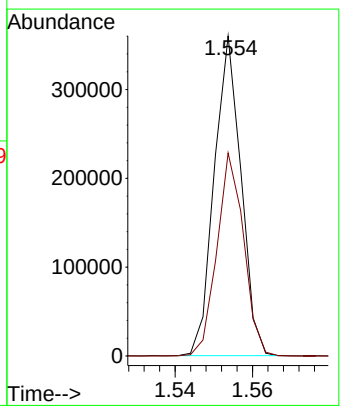


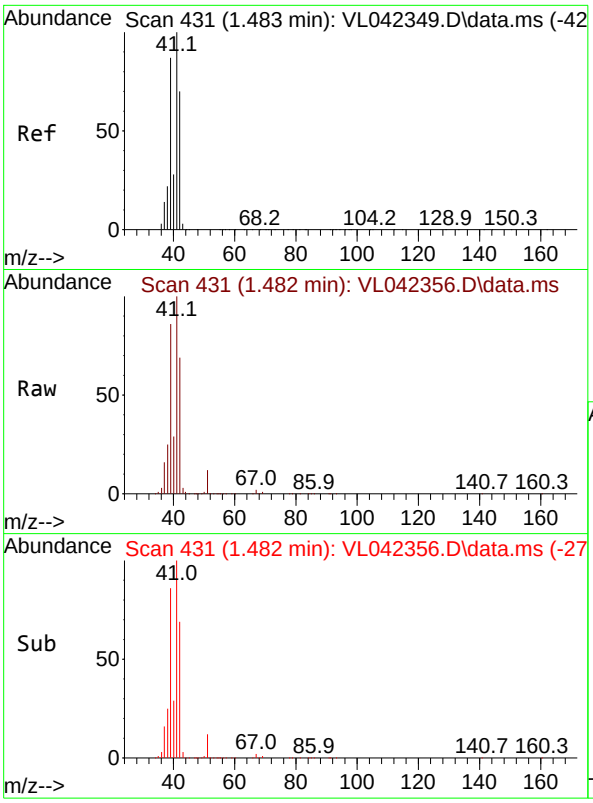




#8
Dichlorotetrafluoroethane
Concen: 9.997 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 85 Resp: 172863

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 63.5 | 52.2 | 78.2 |



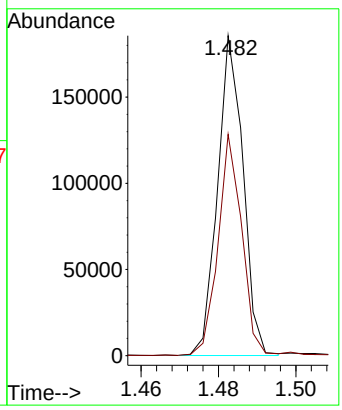


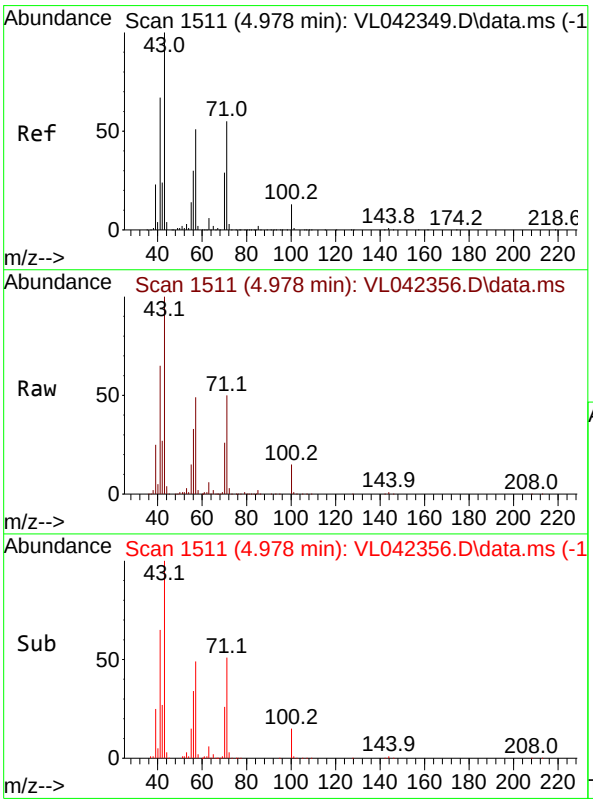

#9
Propene
Concen: 9.690 ppbv
RT: 1.482 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

Tgt Ion: 41 Resp: 84636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 65.8 | 56.2 | 84.4 |

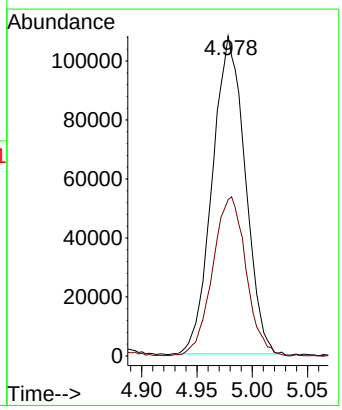


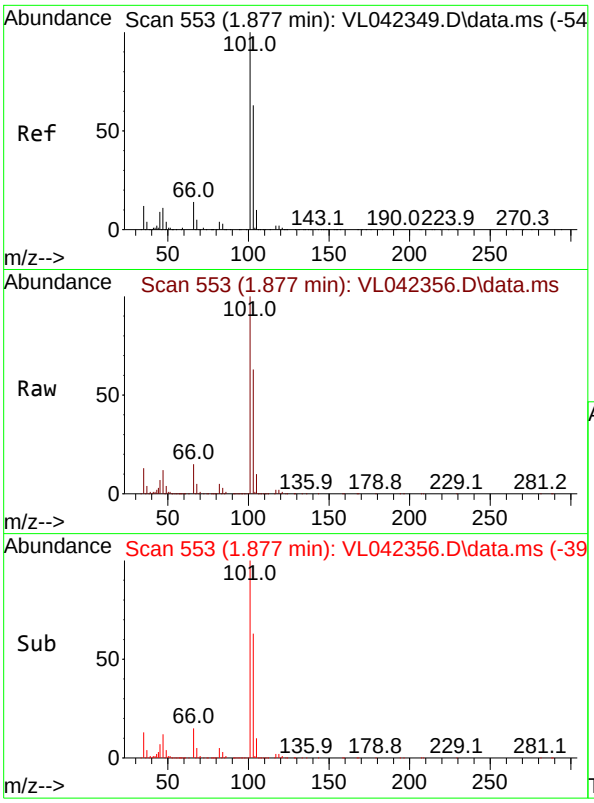




#10
Heptane
Concen: 9.041 ppbv
RT: 4.978 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 43 Resp: 221840

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 51.4 | 39.9 | 59.9 |



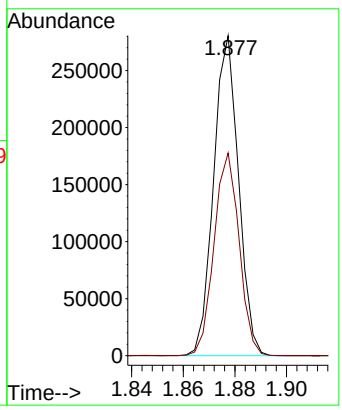


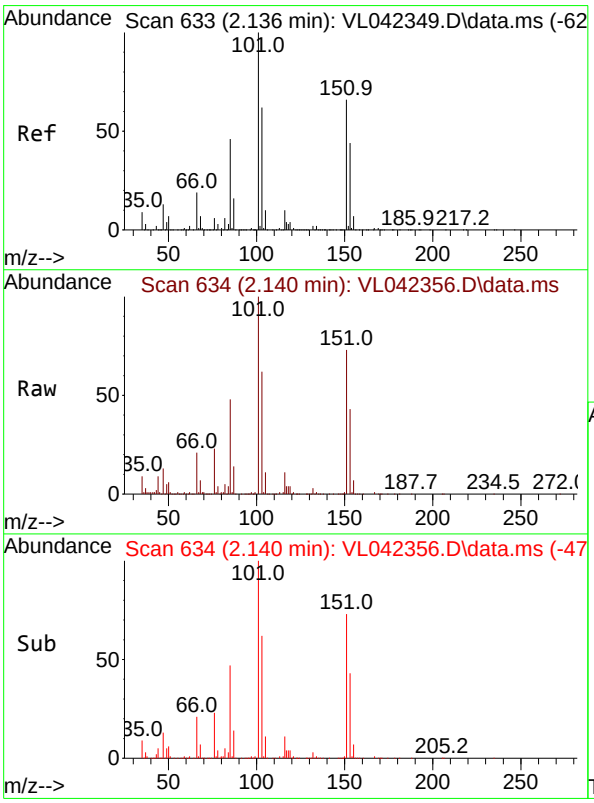

#11
Trichlorofluoromethane
Concen: 9.807 ppbv
RT: 1.877 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

Tgt Ion:101 Resp: 187827

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.3 | 50.1 | 75.1 |

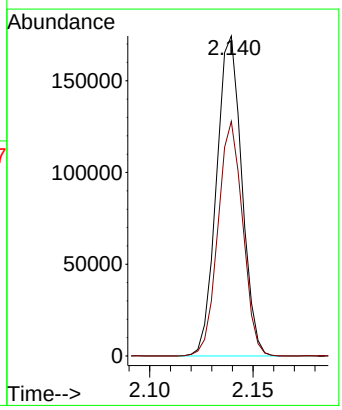


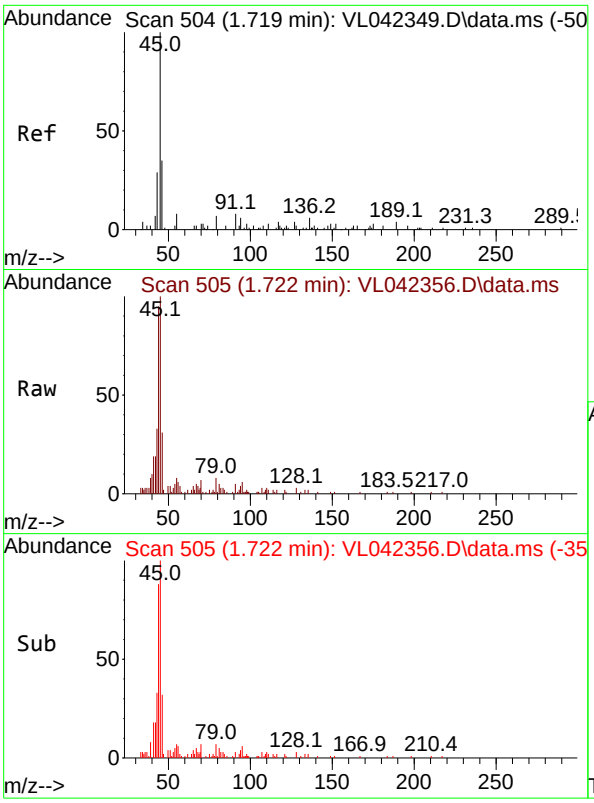




#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.482 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:101 Resp: 148485

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 71.7 | 57.0 | 85.6 |



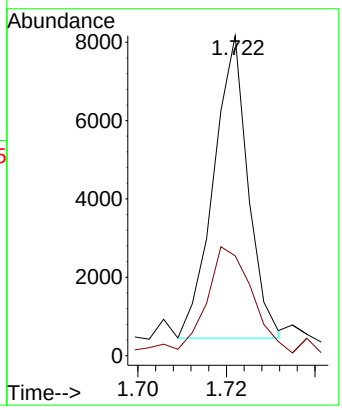


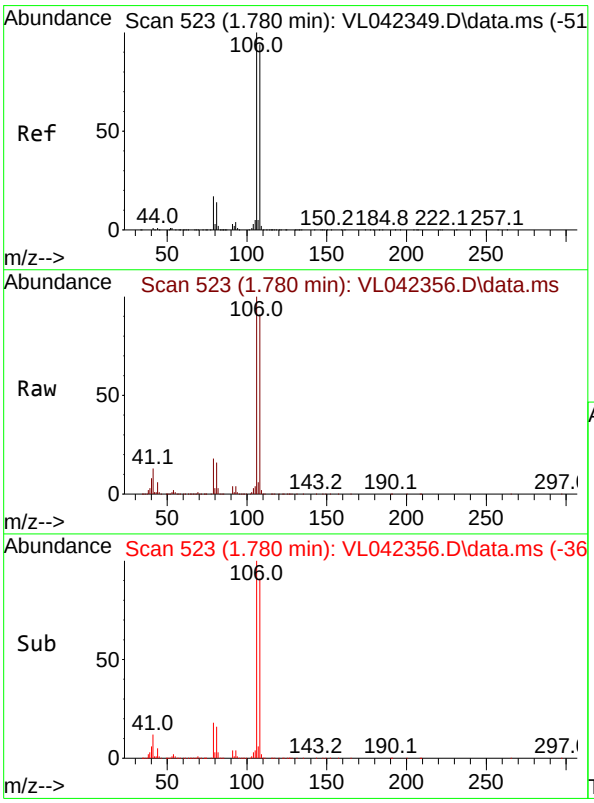

#13
Ethanol
Concen: 3.005 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

Tgt Ion: 45 Resp: 4171

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 57.0 | 21.9 | 87.7 |

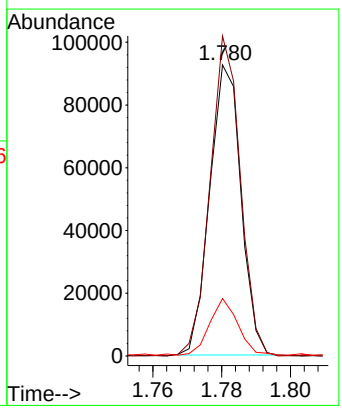


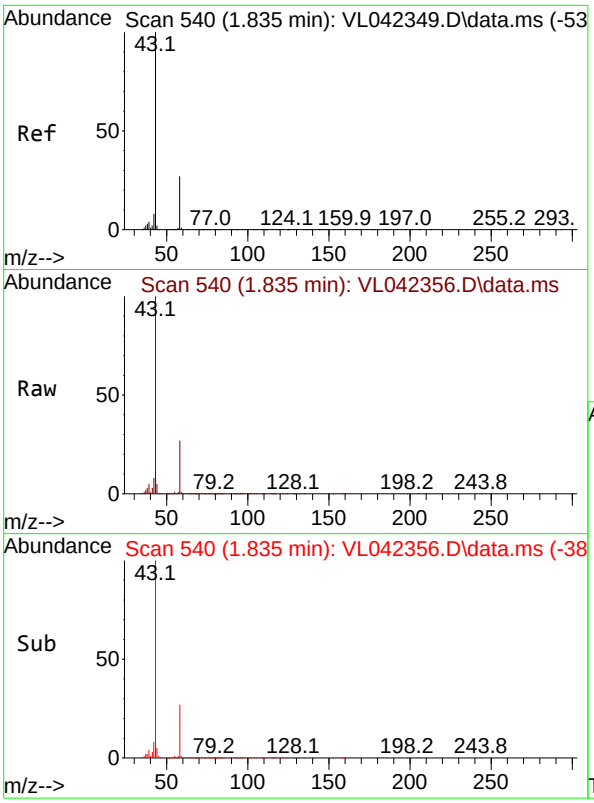




#14
Bromoethene
Concen: 9.880 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:108 Resp: 58320

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 106 | 107.1 | 85.9 | 128.9 |
| 79 | 18.4 | 13.9 | 20.9 |



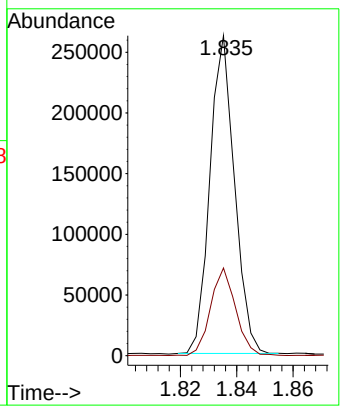


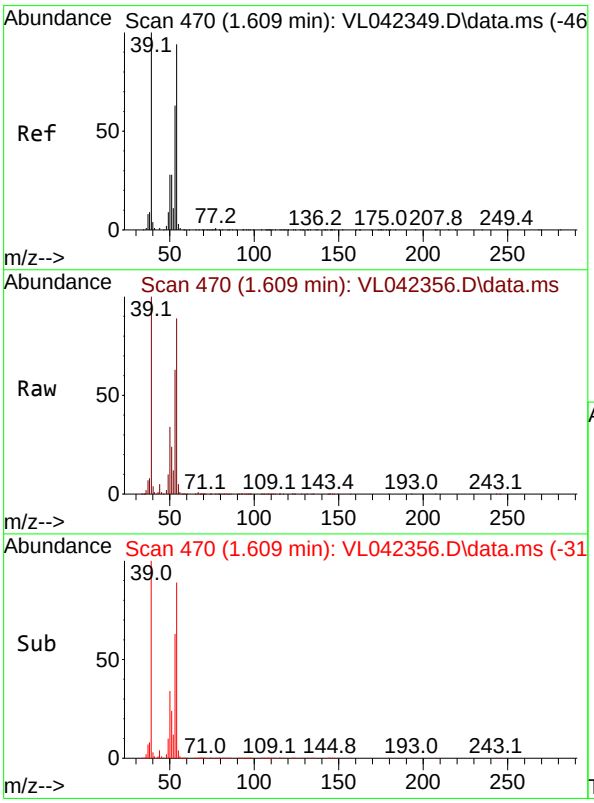

#15
Acetone
Concen: 8.505 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

Tgt Ion: 43 Resp: 158708

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 28.0 | 22.4 | 33.6 |

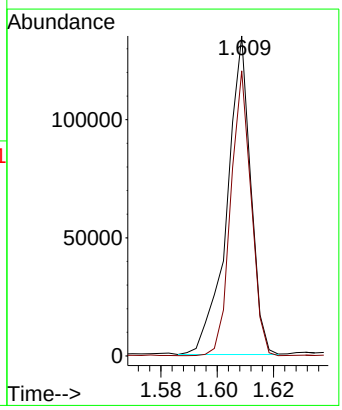


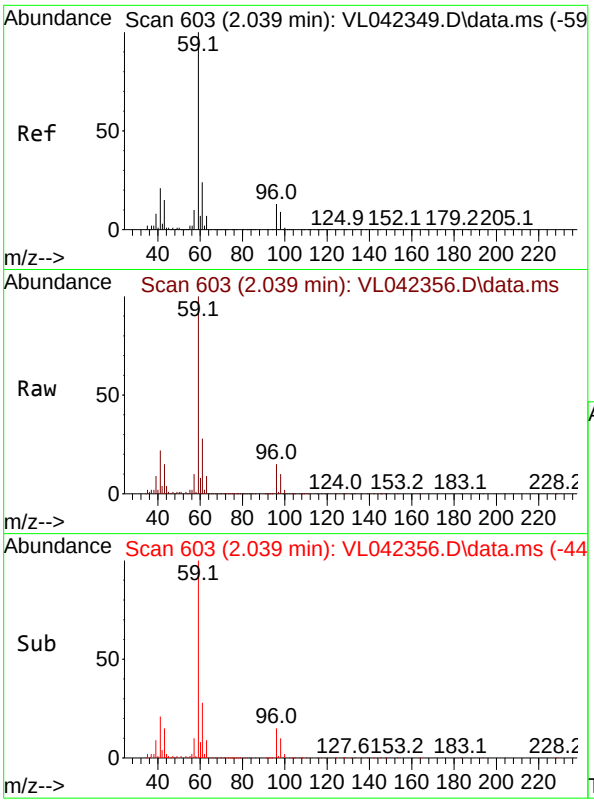




#16
1,3-Butadiene
Concen: 8.829 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 39 Resp: 78804

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 77.1 | 64.9 | 97.3 |



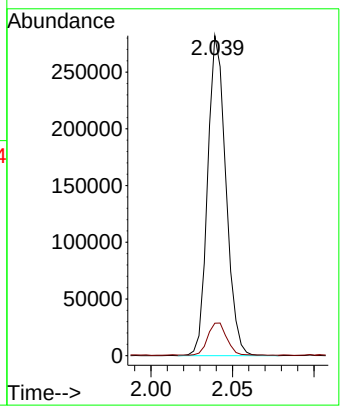


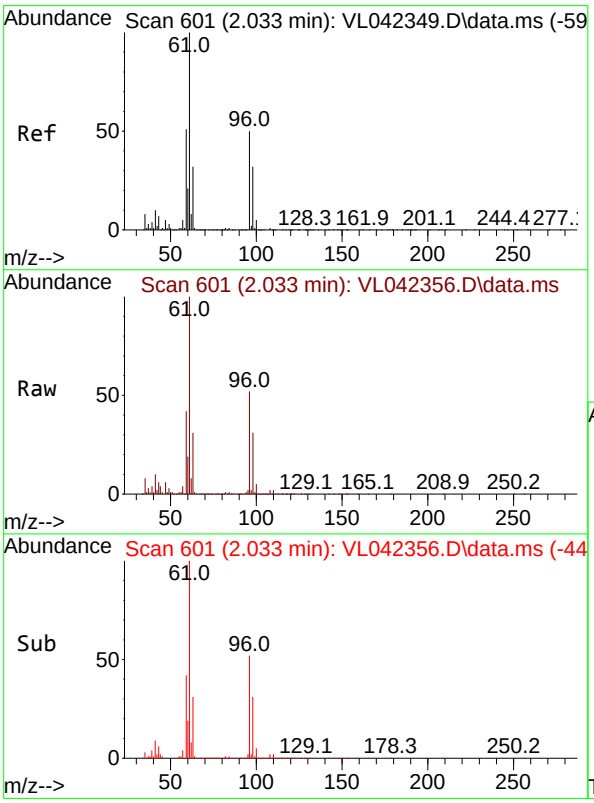

#17
tert-Butyl alcohol
Concen: 9.468 ppbv
RT: 2.039 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

Tgt Ion: 59 Resp: 218954

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.6 | 8.7 | 13.1 |

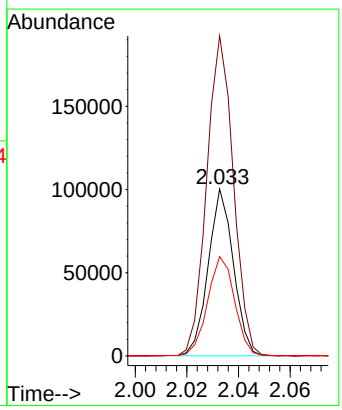


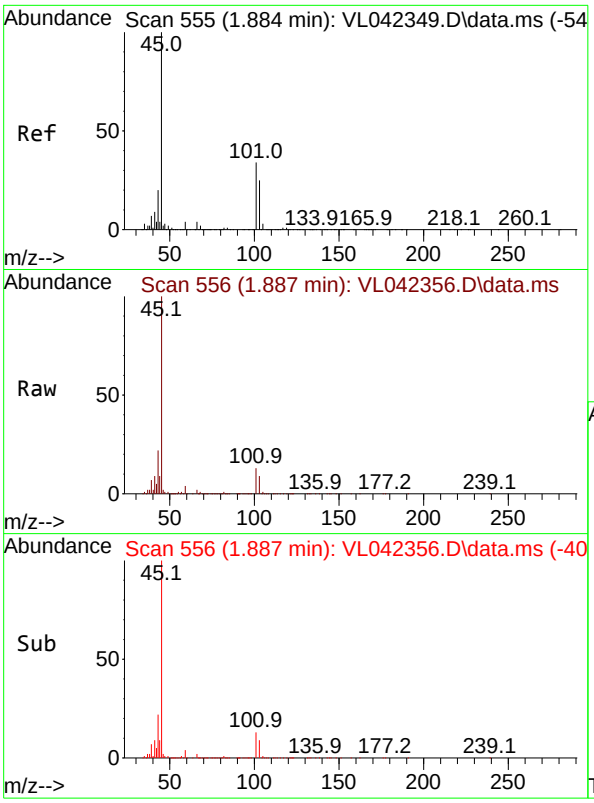




#18
1,1-Dichloroethene
Concen: 9.287 ppbv
RT: 2.033 min Scan# 601
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 96 Resp: 67940

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 191.6 | 160.2 | 240.2 |
| 98 | 59.4 | 51.0 | 76.4 |



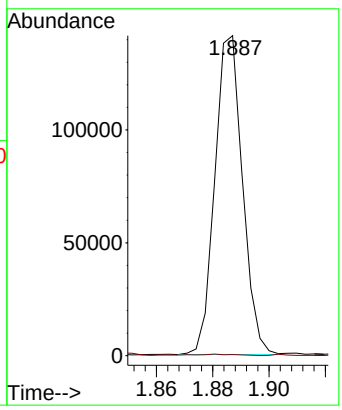


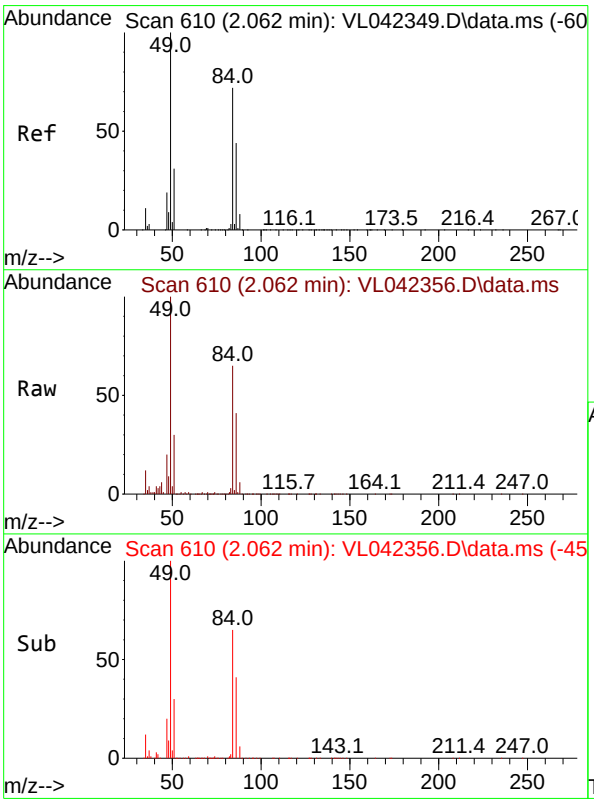

#19
Isopropyl Alcohol
Concen: 9.296 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

Tgt Ion: 45 Resp: 96365

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 46.1 | 34.5 | 51.7 |

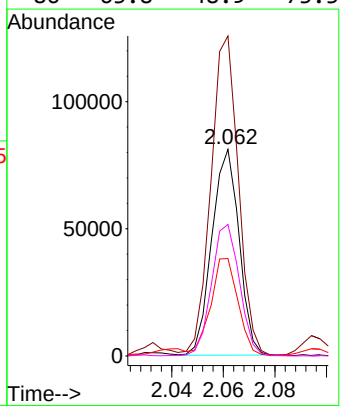


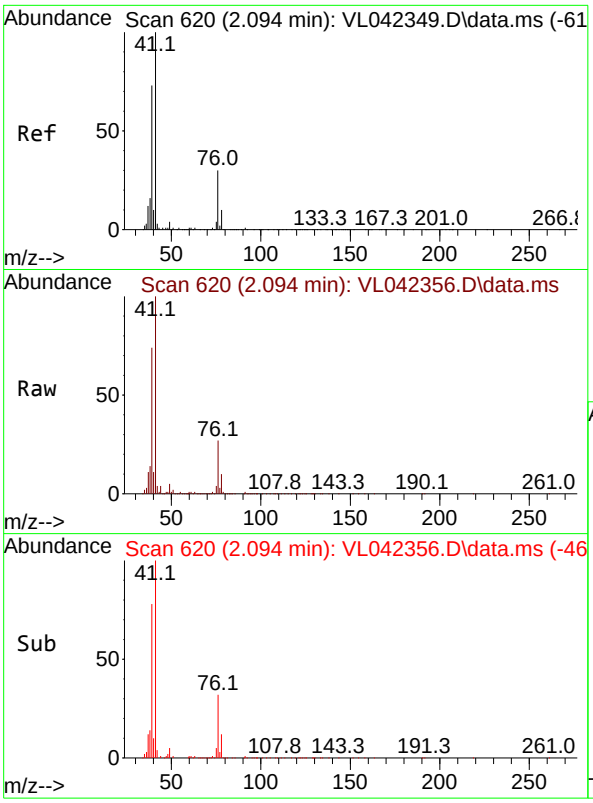




#20
Methylene Chloride
Concen: 8.101 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 84 Resp: 59203

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 155.3 | 111.6 | 167.4 |
| 51 | 47.0 | 35.1 | 52.7 |
| 86 | 63.8 | 48.9 | 73.3 |



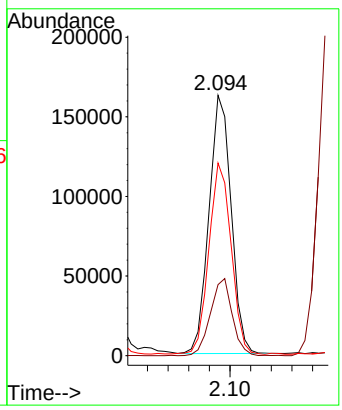


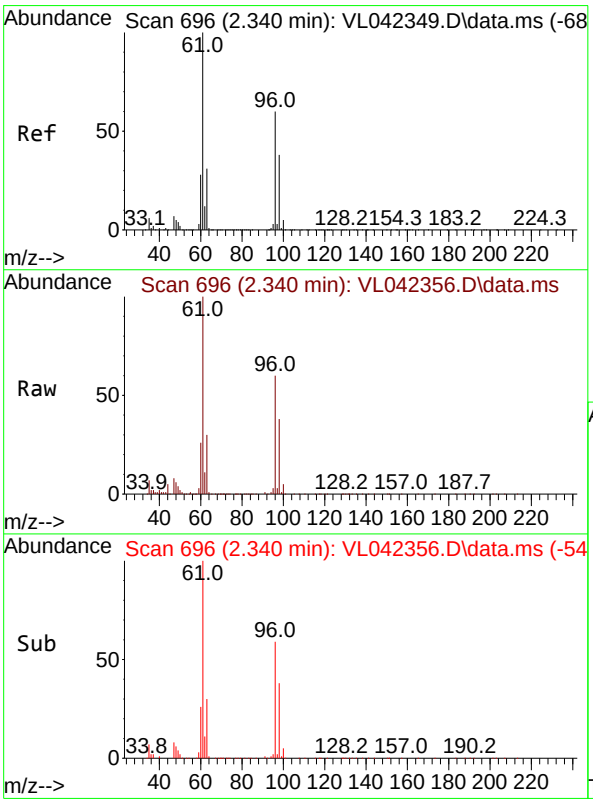

#21
Allyl Chloride
Concen: 9.368 ppbv
RT: 2.094 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

Tgt Ion: 41 Resp: 120704

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 29.5 | 24.8 | 37.2 |
| 39 | 74.5 | 60.6 | 90.8 |

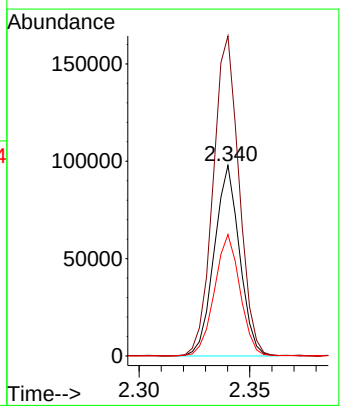


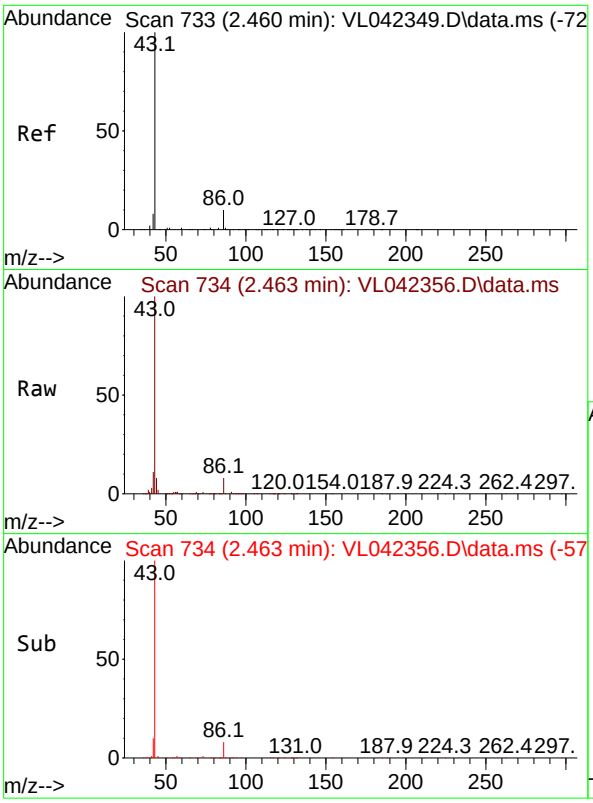




#22
trans-1,2-Dichloroethene
Concen: 9.373 ppbv
RT: 2.340 min Scan# 696
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 96 Resp: 78070

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 167.7 | 133.7 | 200.5 |
| 98 | 63.5 | 50.3 | 75.5 |



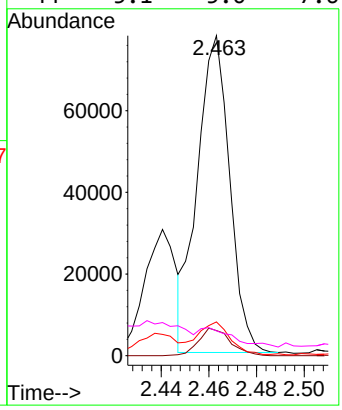


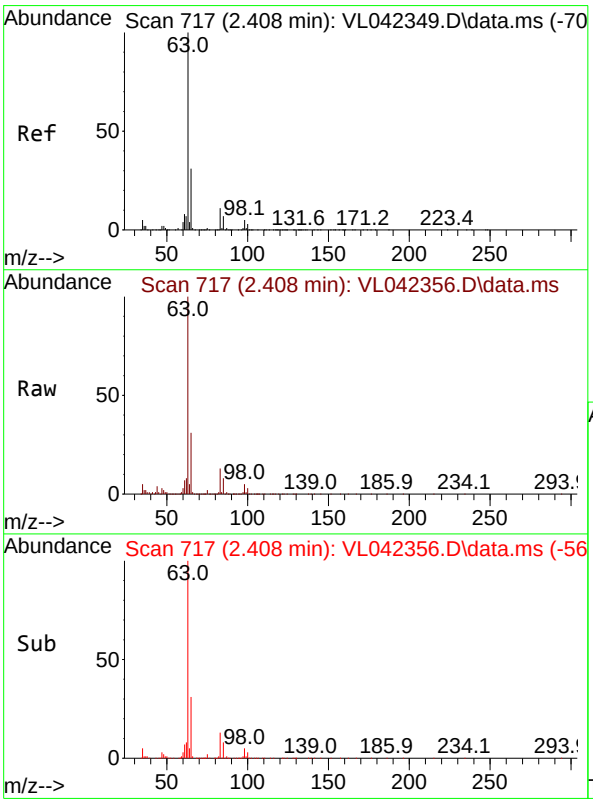

#23
Vinyl Acetate
Concen: 9.714 ppbv
RT: 2.463 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

Tgt Ion: 43 Resp: 73373

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 8.0 | 6.5 | 9.7 |
| 42 | 10.0 | 7.8 | 11.8 |
| 44 | 5.1 | 5.0 | 7.6 |

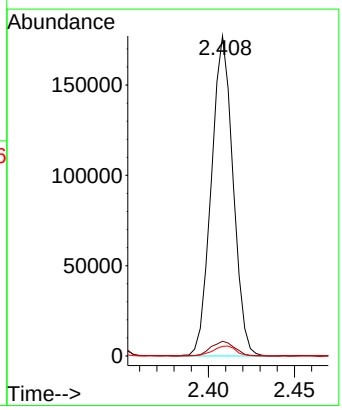


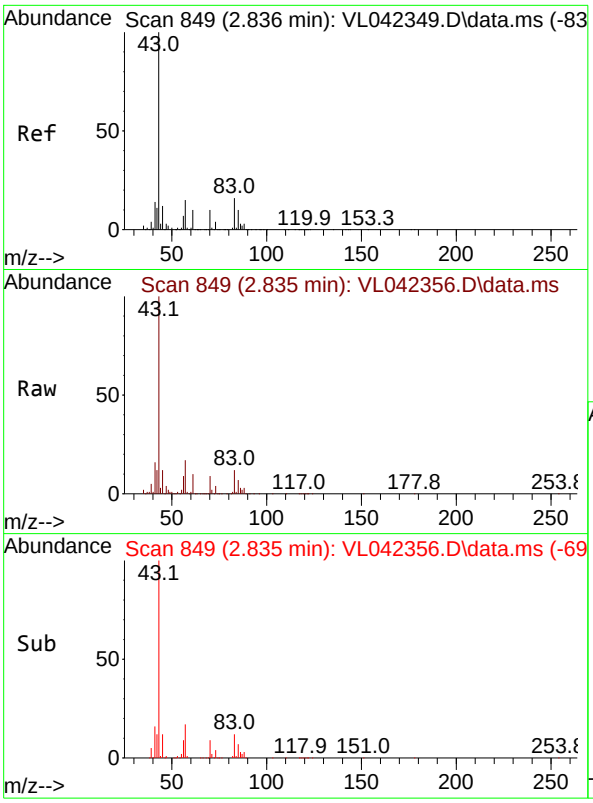




#24
1,1-Dichloroethane
Concen: 9.832 ppbv
RT: 2.408 min Scan# 717
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 63 Resp: 155571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 4.6 | 2.3 | 6.8 |
| 100 | 3.0 | 1.6 | 4.8 |



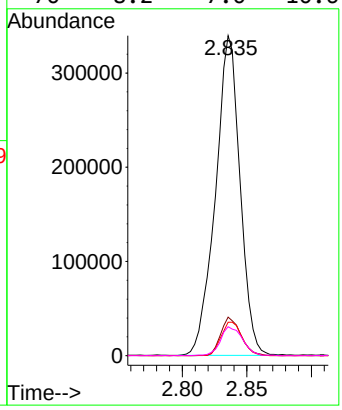


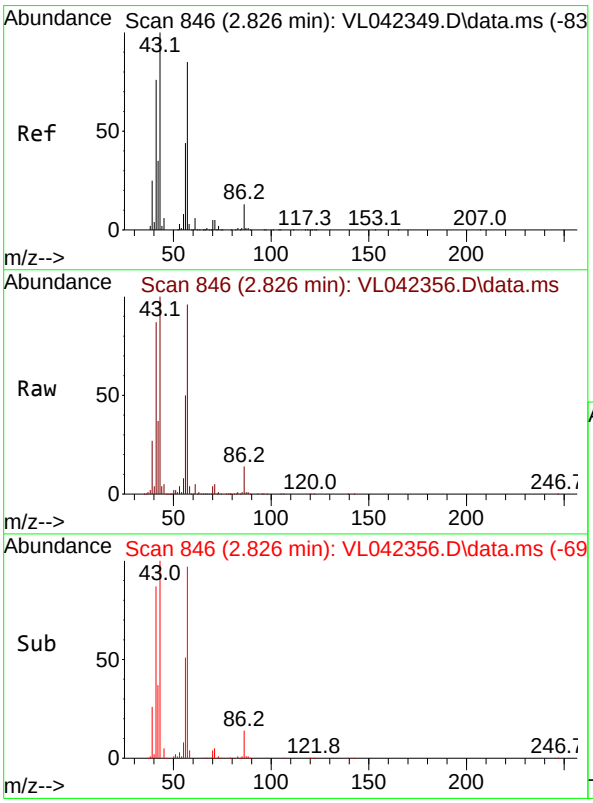

#25
Ethyl Acetate
Concen: 9.759 ppbv
RT: 2.835 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

Tgt Ion: 43 Resp: 449014

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 9.9 | 8.3 | 12.5 |
| 61 | 9.0 | 7.3 | 10.9 |
| 70 | 8.2 | 7.0 | 10.6 |

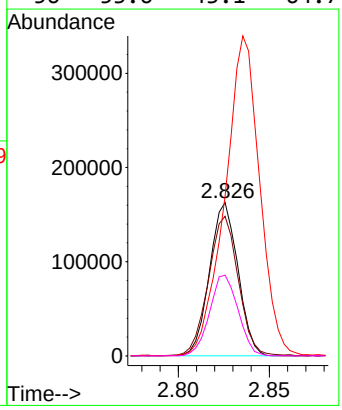


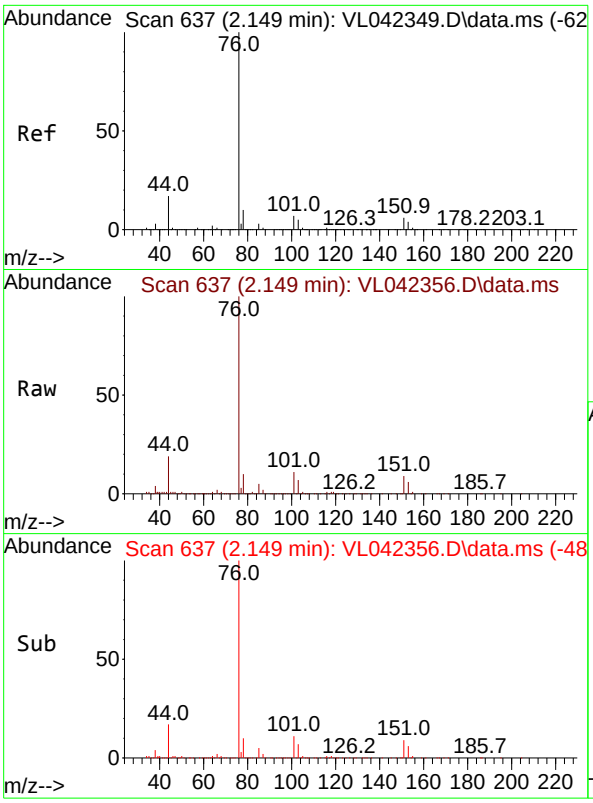




#26
Hexane
Concen: 9.439 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 57 Resp: 175752

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 96.6 | 77.9 | 116.9 |
| 43 | 256.0 | 208.4 | 312.6 |
| 56 | 53.6 | 43.1 | 64.7 |



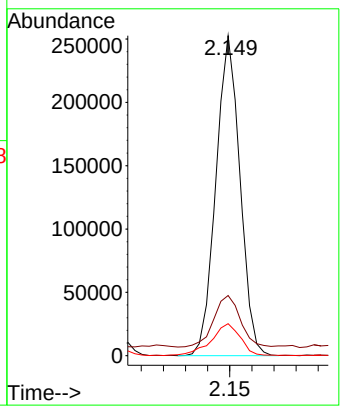


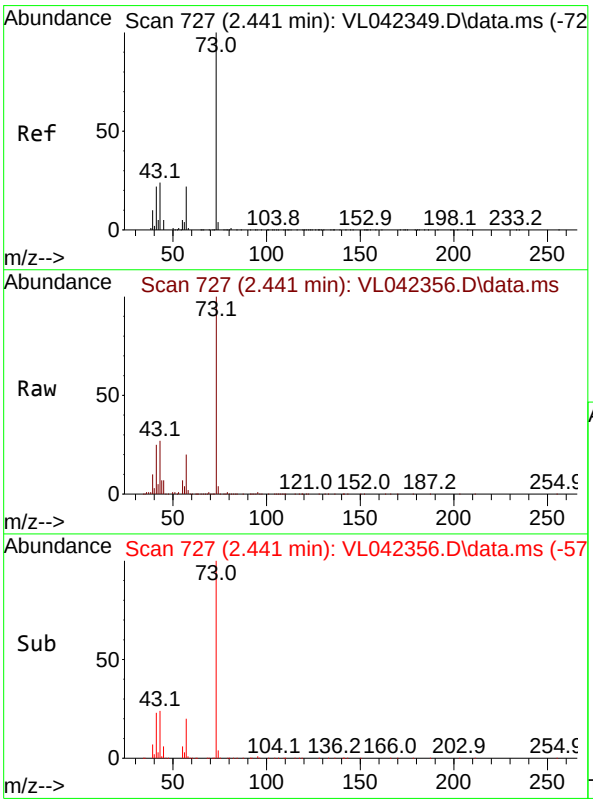

#27
Carbon Disulfide
Concen: 9.587 ppbv
RT: 2.149 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

Tgt Ion: 76 Resp: 191117

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 19.3 | 15.5 | 23.3 |
| 78 | 11.9 | 9.3 | 13.9 |

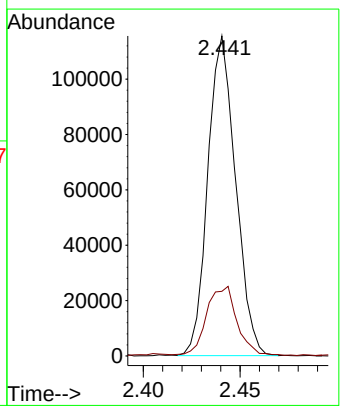


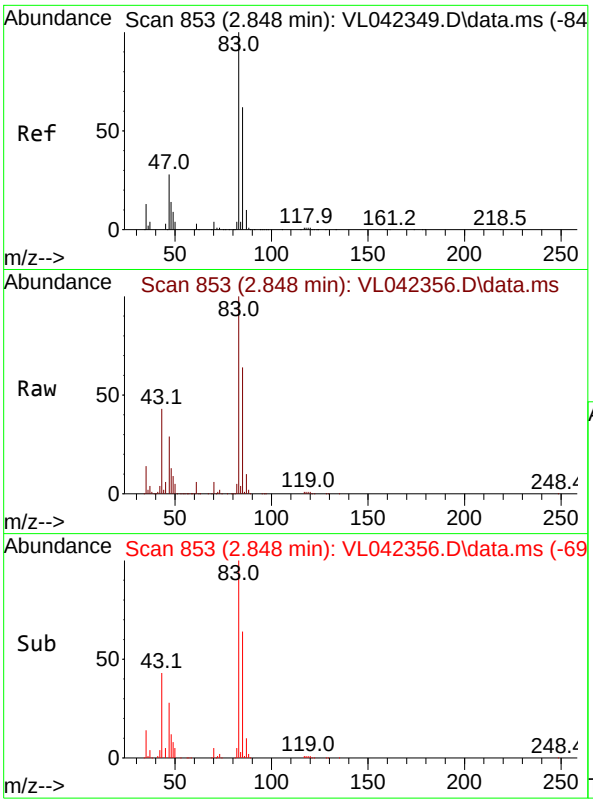




#28
Methyl tert-Butyl Ether
Concen: 9.442 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 73 Resp: 115190

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 23.4 | 21.3 | 31.9 |



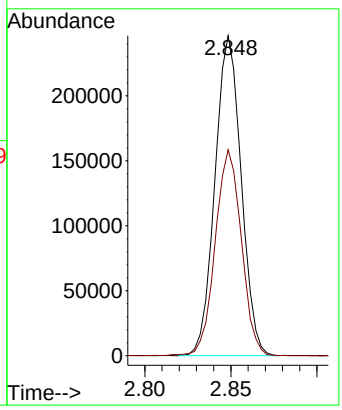


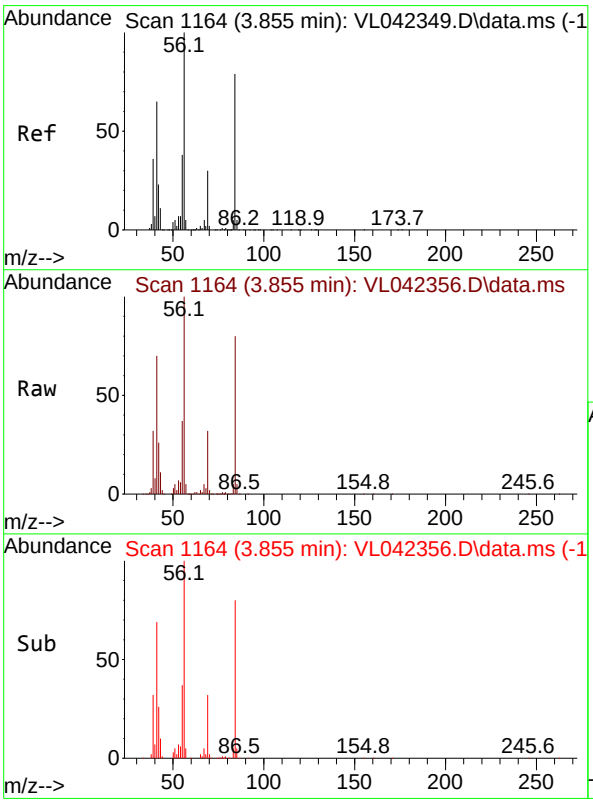

#29
Chloroform
Concen: 9.912 ppbv
RT: 2.848 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

Tgt Ion: 83 Resp: 260855

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.3 | 50.0 | 75.0 |

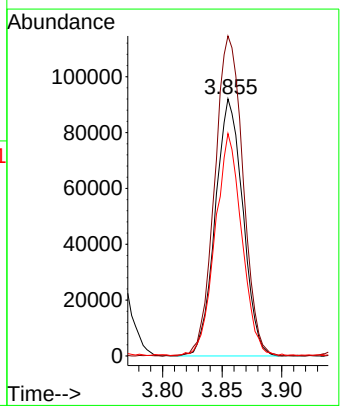


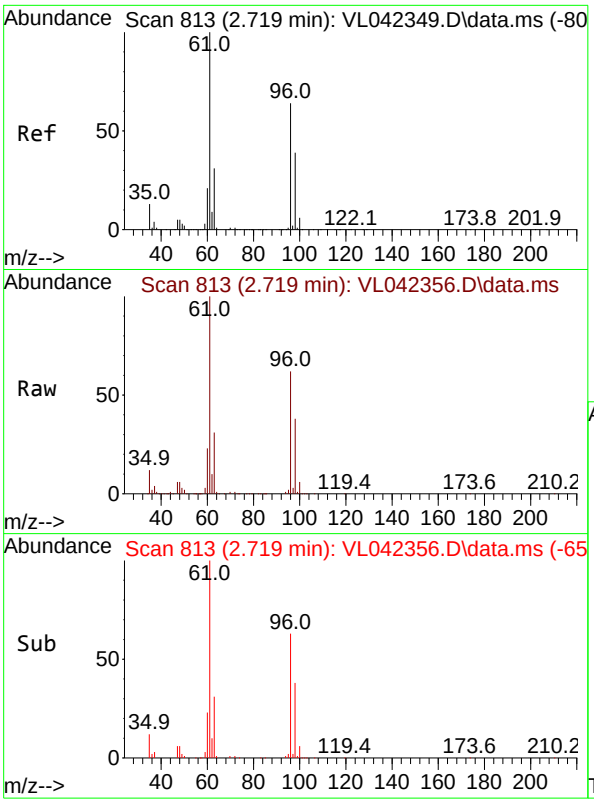




#30
Cyclohexane
Concen: 9.849 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 84 Resp: 148246

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 127.7 | 101.0 | 151.4 |
| 41 | 83.2 | 67.4 | 101.0 |



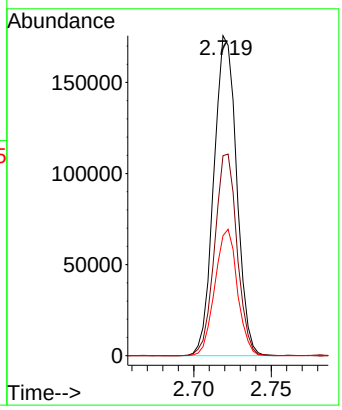


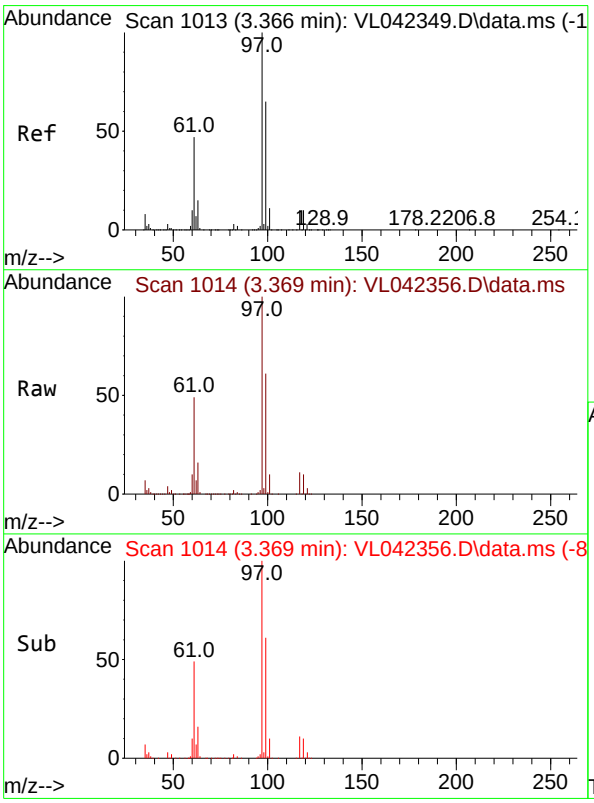

#31
cis-1,2-Dichloroethene
Concen: 10.167 ppbv
RT: 2.719 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

Tgt Ion: 61 Resp: 179993

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 62.5 | 50.8 | 76.2 |
| 98 | 37.5 | 30.9 | 46.3 |

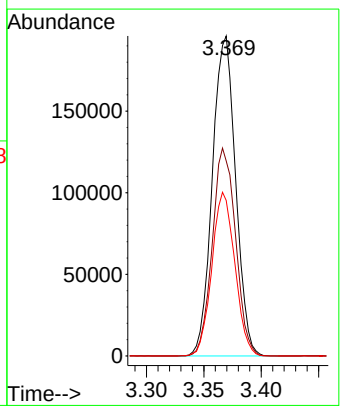


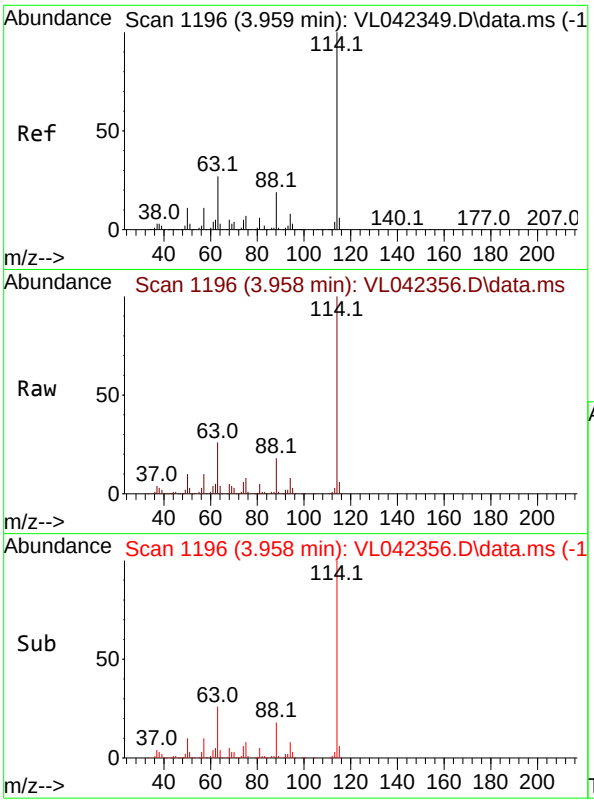




#32
1,1,1-Trichloroethane
Concen: 9.336 ppbv
RT: 3.369 min Scan# 1014
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 97 Resp: 276599

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 65.0 | 51.0 | 76.4 |
| 61 | 50.7 | 38.8 | 58.2 |



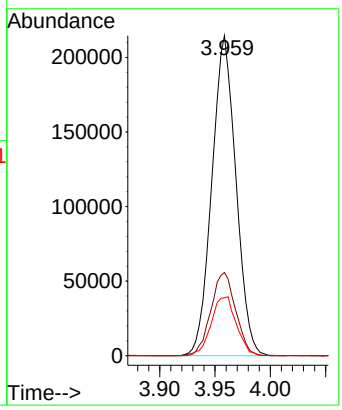


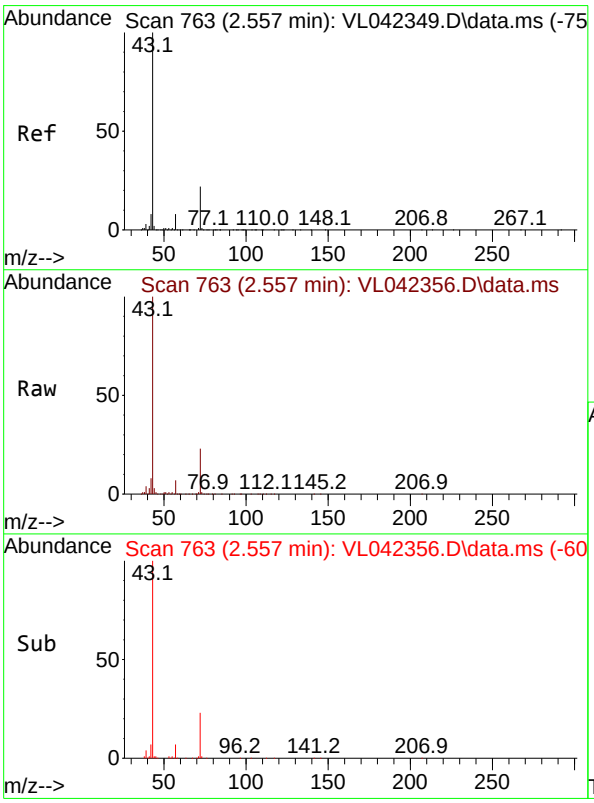

#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.958 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

Tgt Ion:114 Resp: 324528

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 26.8 | 21.8 | 32.6 |
| 88 | 19.2 | 15.5 | 23.3 |

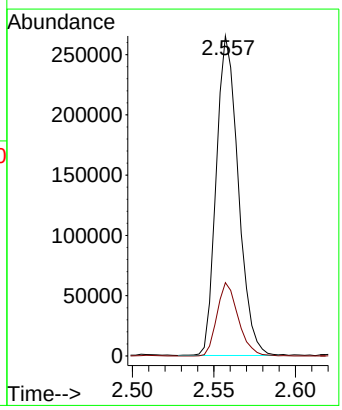


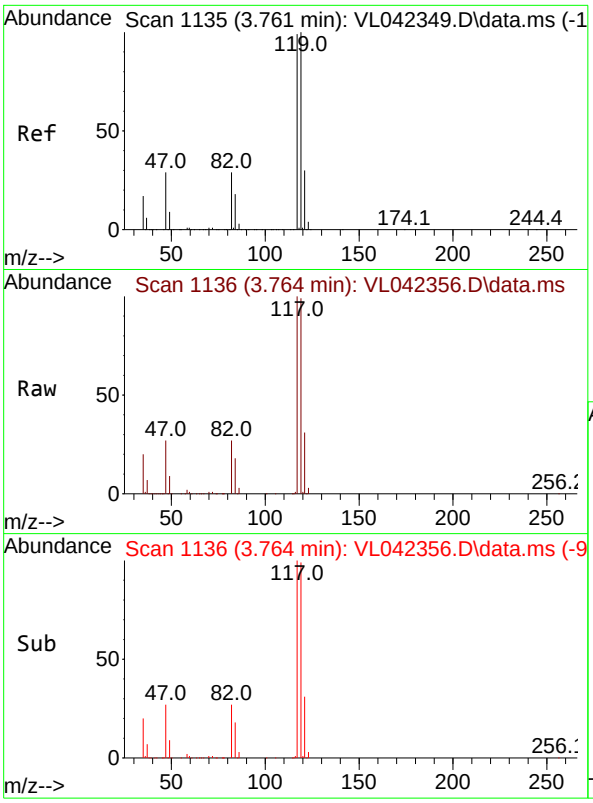




#34
2-Butanone
Concen: 9.700 ppbv
RT: 2.557 min Scan# 763
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 43 Resp: 248969

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 22.1 | 18.2 | 27.2 |



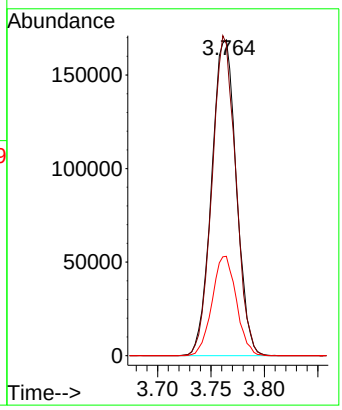


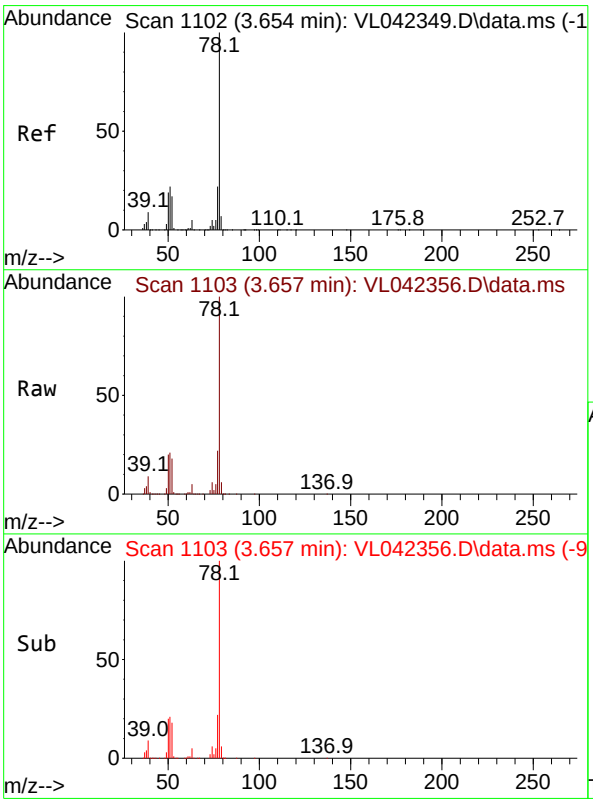

#35
Carbon Tetrachloride
Concen: 9.256 ppbv
RT: 3.764 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

Tgt Ion:117 Resp: 271862

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 98.7 | 80.5 | 120.7 |
| 121 | 31.5 | 24.2 | 36.2 |

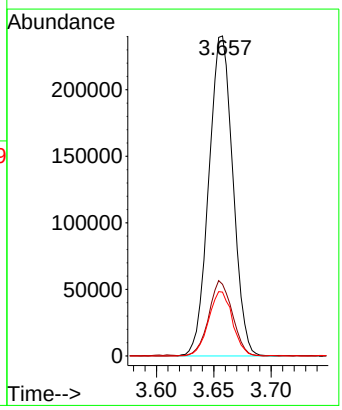


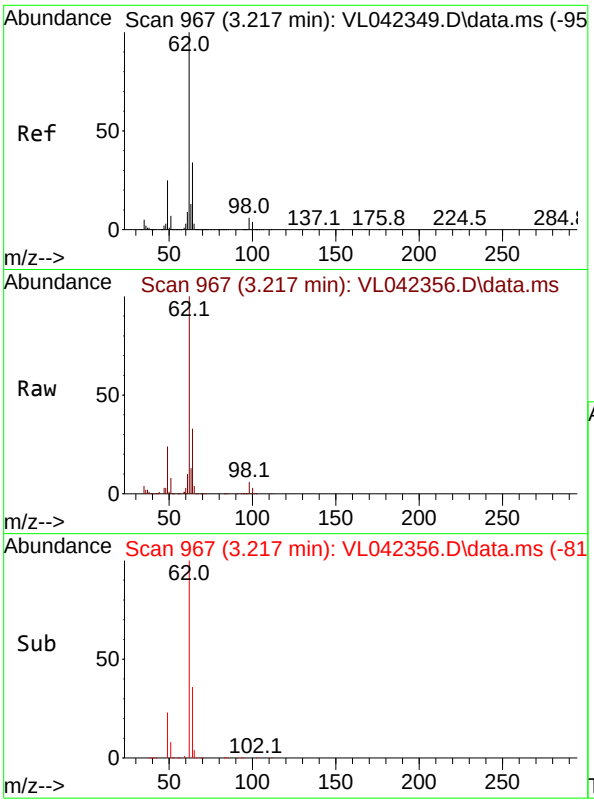




#36
Benzene
Concen: 10.014 ppbv
RT: 3.657 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 78 Resp: 350545

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 22.3 | 17.4 | 26.0 |
| 50 | 19.9 | 15.5 | 23.3 |



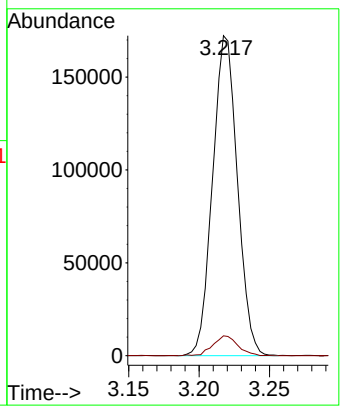


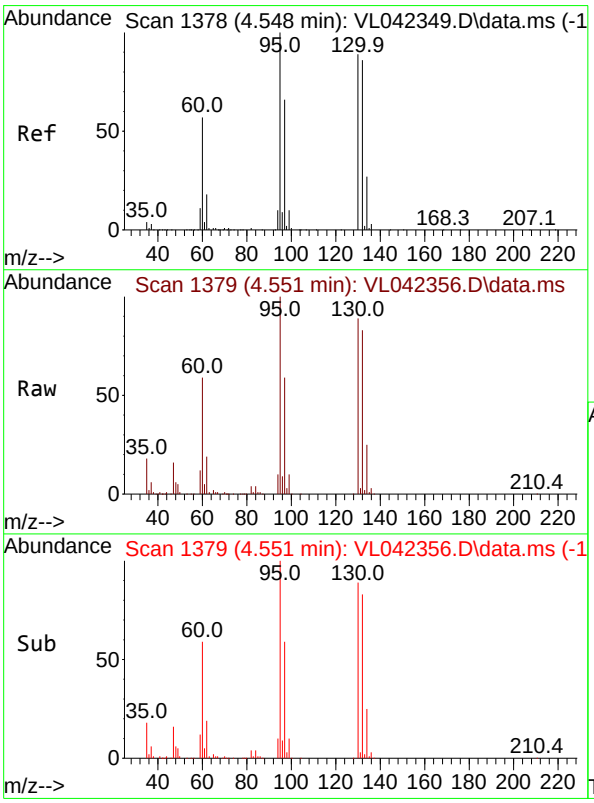

#37
1,2-Dichloroethane
Concen: 10.081 ppbv
RT: 3.217 min Scan# 9
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

Tgt Ion: 62 Resp: 211790

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 6.2 | 5.1 | 7.7 |

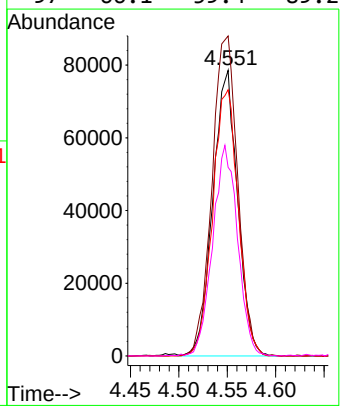


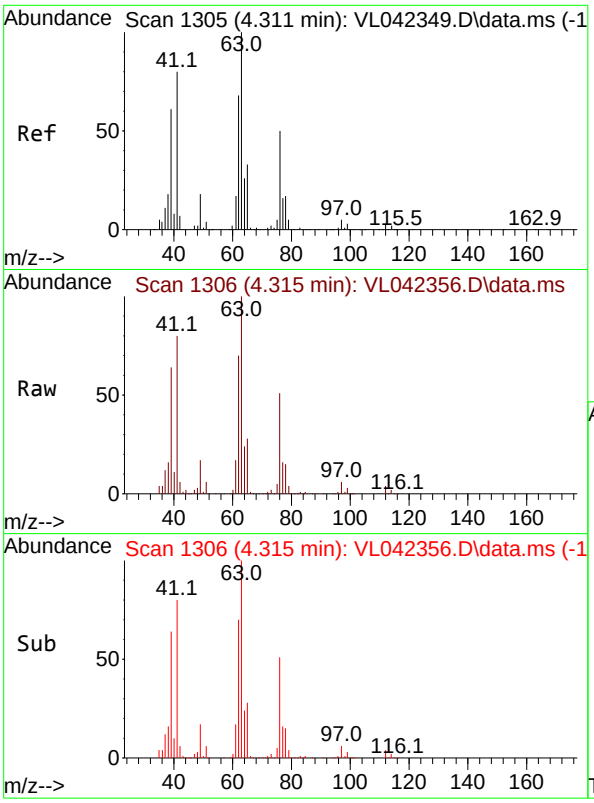




#38
Trichloroethene
Concen: 9.143 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:130 Resp: 139872

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 112.0 | 89.8 | 134.6 |
| 132 | 93.2 | 77.7 | 116.5 |
| 97 | 66.1 | 59.4 | 89.2 |



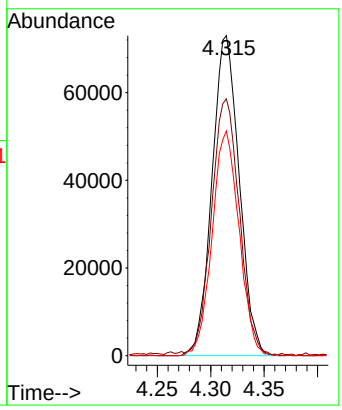


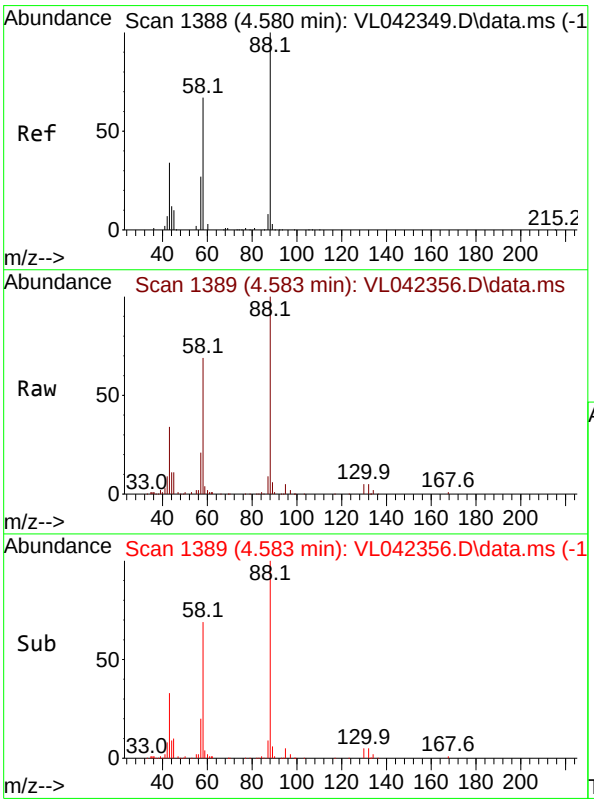

#39
1,2-Dichloropropane
Concen: 9.908 ppbv
RT: 4.315 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

Tgt Ion: 63 Resp: 129239

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 79.9 | 64.2 | 96.2 |
| 62 | 70.2 | 54.3 | 81.5 |

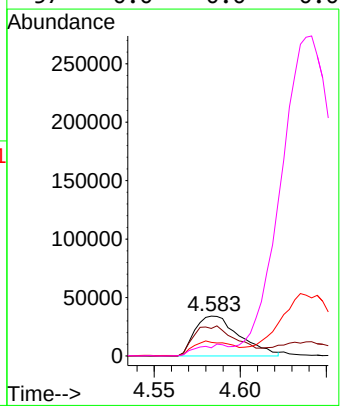


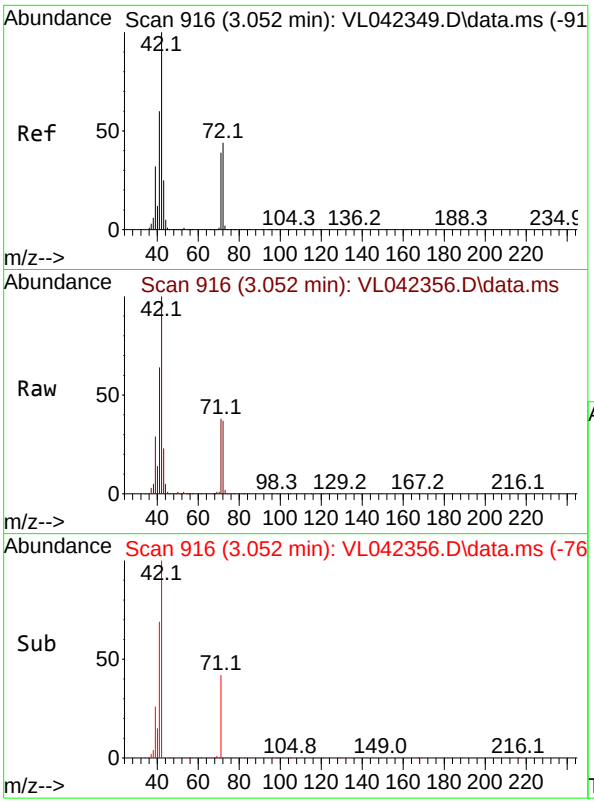




#40
1,4-Dioxane
Concen: 8.591 ppbv
RT: 4.583 min Scan# 1389
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 88 Resp: 61587

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 76.1 | 61.4 | 92.0 |
| 43 | 35.9 | 23.2 | 34.8# |
| 57 | 0.0 | 0.0 | 0.0 |



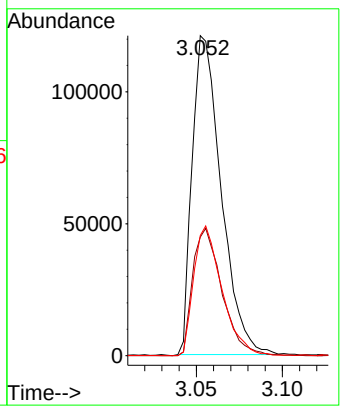


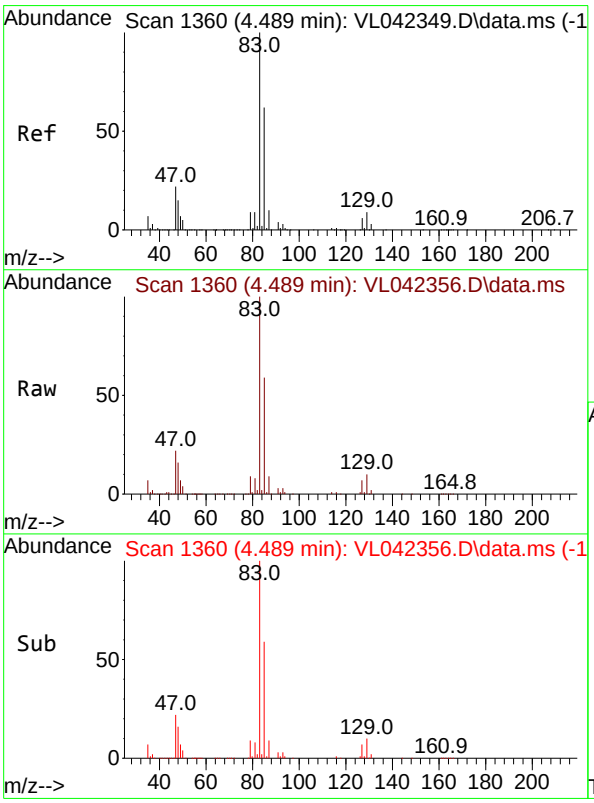

#41
Tetrahydrofuran
Concen: 9.479 ppbv
RT: 3.052 min Scan# 91
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

Tgt Ion: 42 Resp: 141861

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 40.2 | 32.3 | 48.5 |
| 71 | 39.8 | 31.4 | 47.2 |

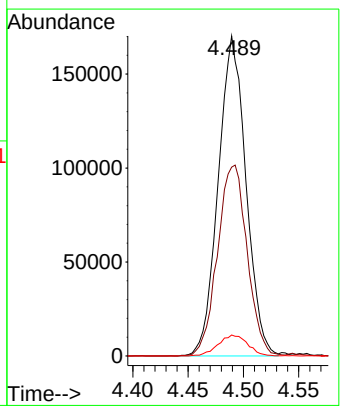


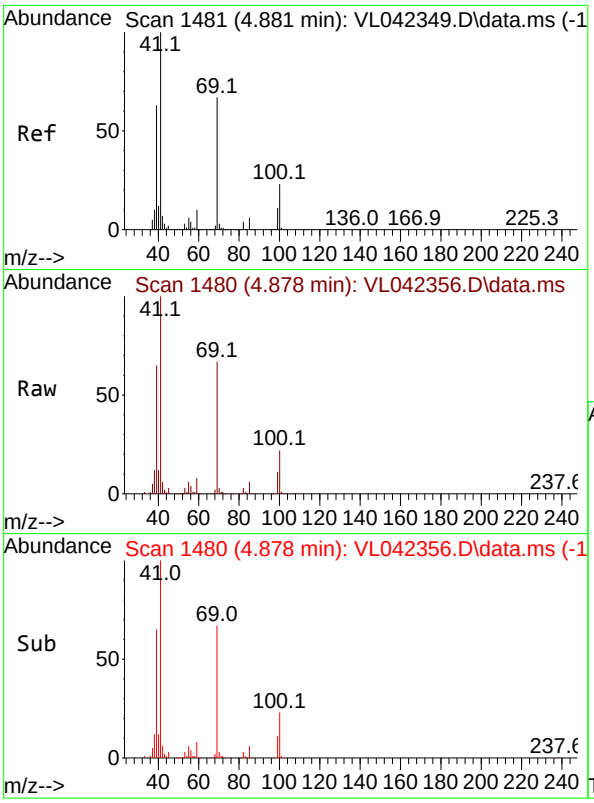




#42
Bromodichloromethane
Concen: 10.156 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 83 Resp: 296946

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 59.0 | 49.7 | 74.5 |
| 127 | 6.6 | 5.1 | 7.7 |



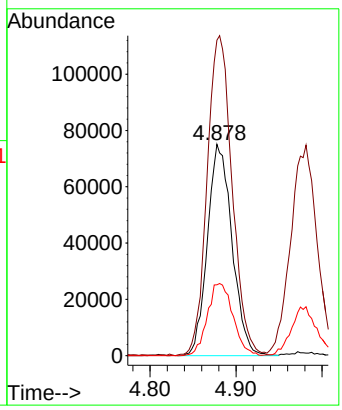


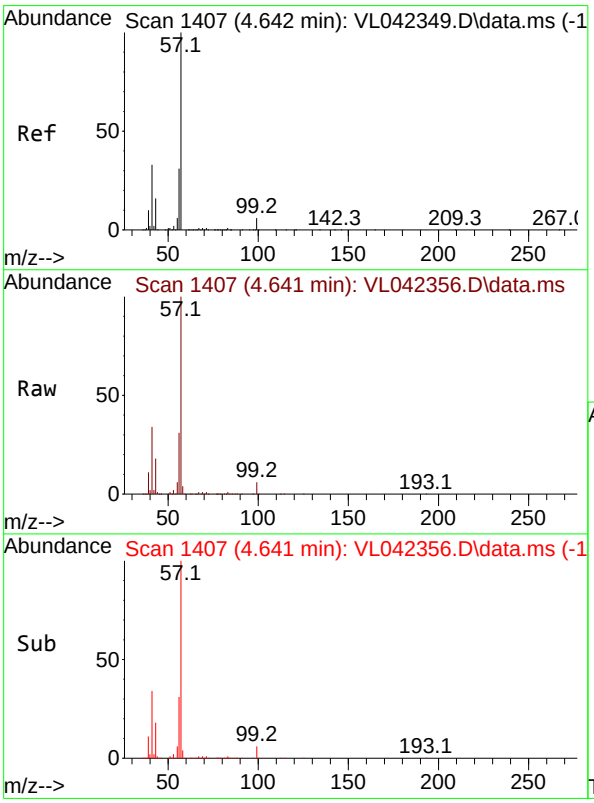

#43
Methyl Methacrylate
Concen: 9.458 ppbv
RT: 4.878 min Scan# 14
Delta R.T. -0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

Tgt Ion: 69 Resp: 149209

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 154.1 | 118.6 | 177.8 |
| 100 | 35.5 | 28.2 | 42.2 |

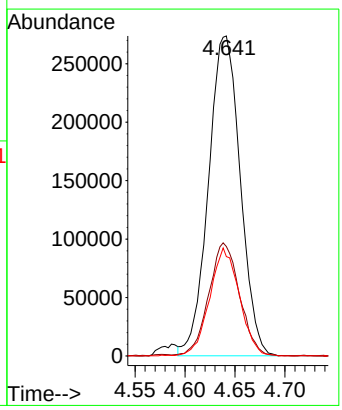


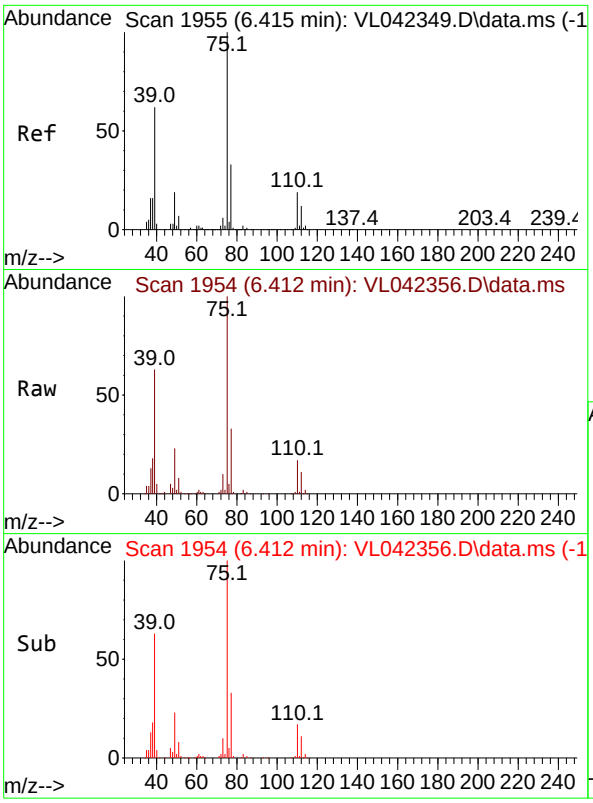




#44
2,2,4-Trimethylpentane
Concen: 10.030 ppbv
RT: 4.641 min Scan# 1407
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 57 Resp: 606376

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 34.3 | 27.2 | 40.8 |
| 56 | 31.6 | 25.7 | 38.5 |



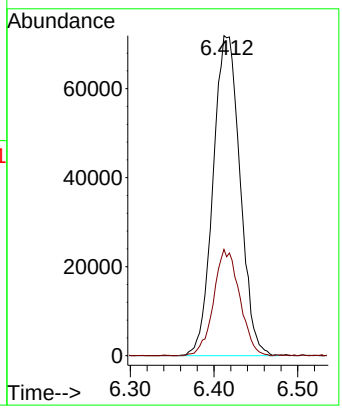


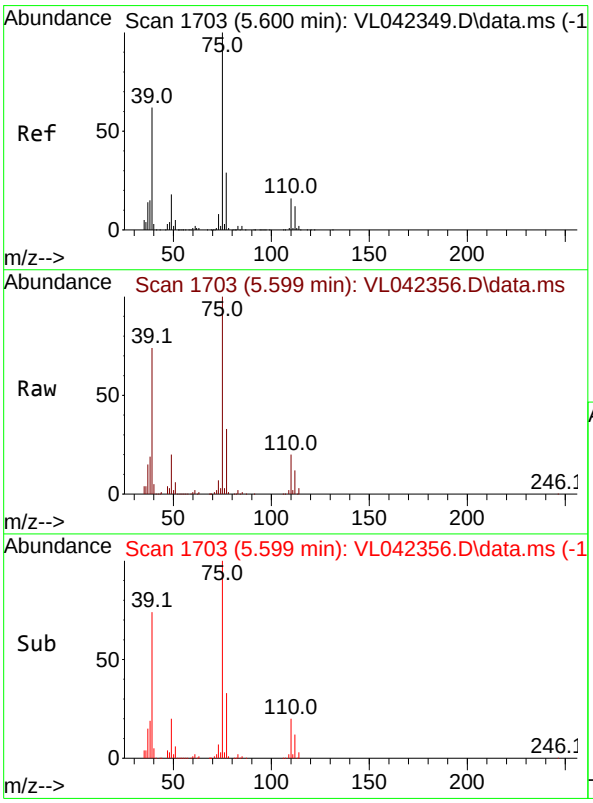

#45
t-1,3-Dichloropropene
Concen: 9.975 ppbv
RT: 6.412 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

Tgt Ion: 75 Resp: 160750

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 33.2 | 27.0 | 40.6 |

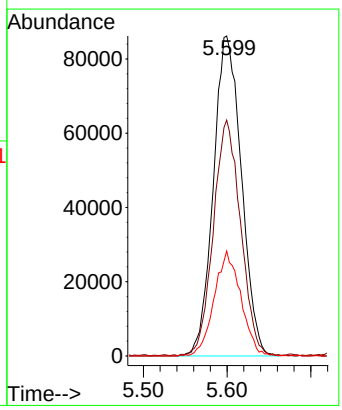


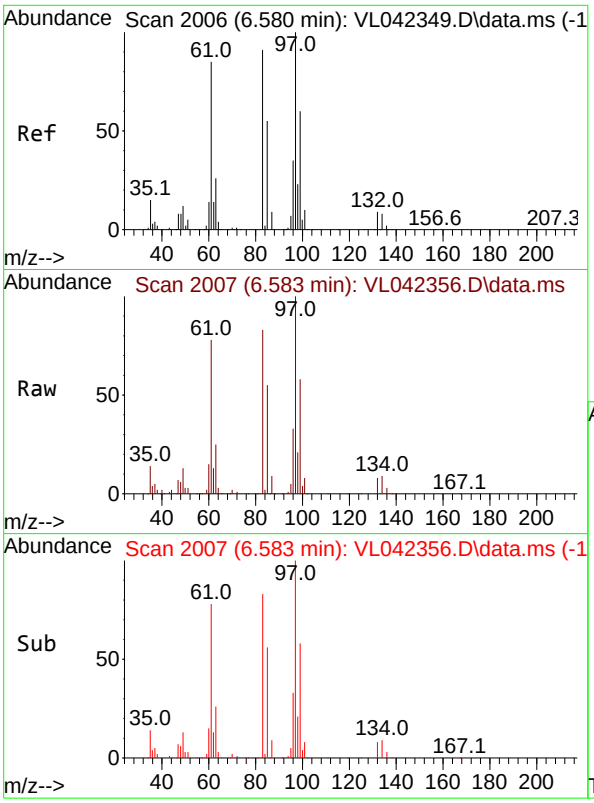




#46
cis-1,3-Dichloropropene
Concen: 10.148 ppbv
RT: 5.599 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 75 Resp: 200144

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 39 | 73.7 | 50.0 | 75.0 |
| 77 | 32.7 | 23.0 | 34.6 |



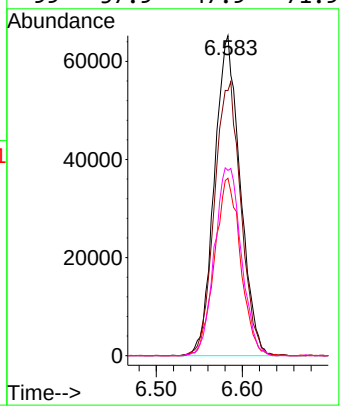


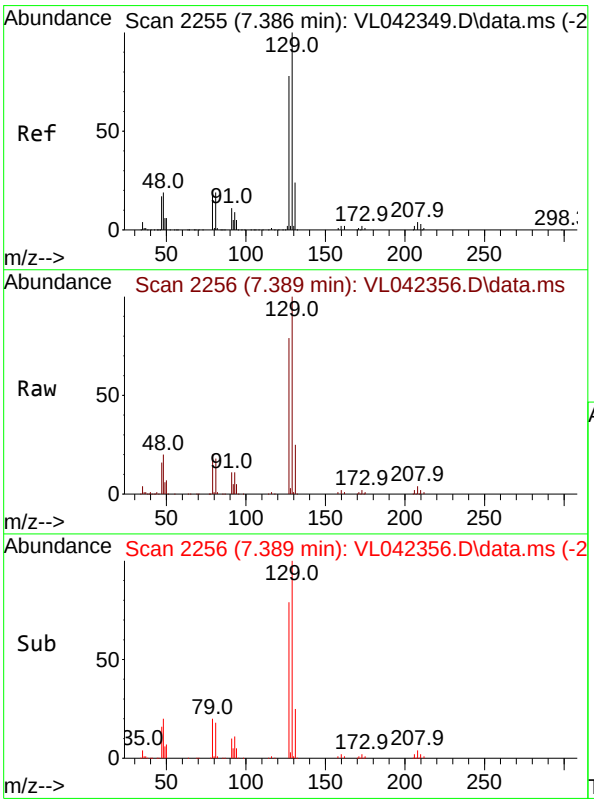

#47
1,1,2-Trichloroethane
Concen: 10.202 ppbv
RT: 6.583 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

Tgt Ion: 97 Resp: 135575

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 82.8 | 72.8 | 109.2 |
| 85 | 55.5 | 44.2 | 66.4 |
| 99 | 57.9 | 47.9 | 71.9 |

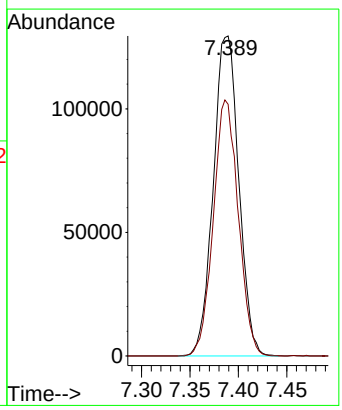


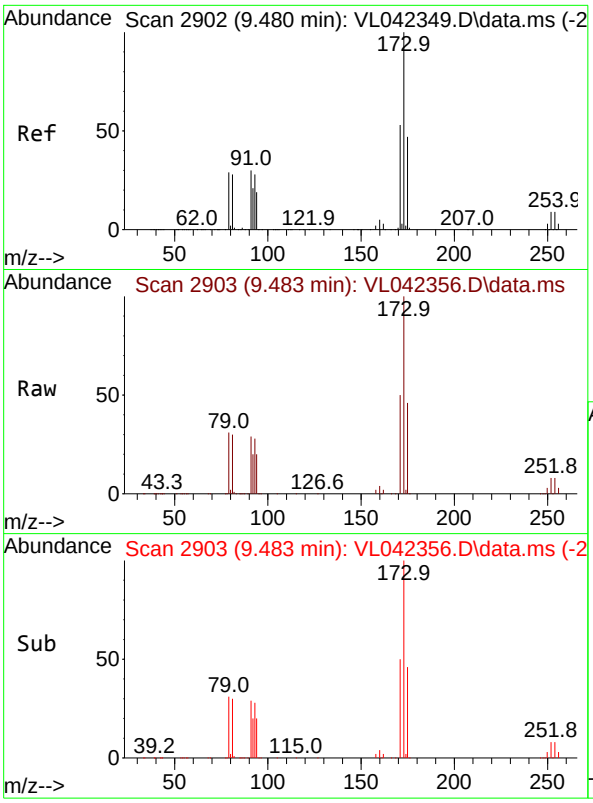




#48
Dibromochloromethane
Concen: 10.103 ppbv
RT: 7.389 min Scan# 2256
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:129 Resp: 237206

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.4 | 39.1 | 117.3 |



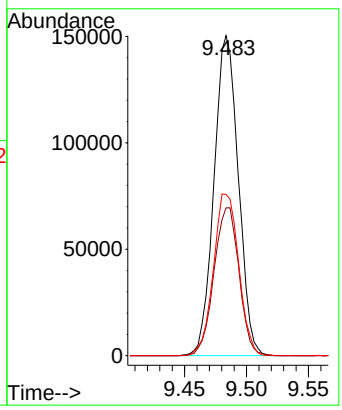


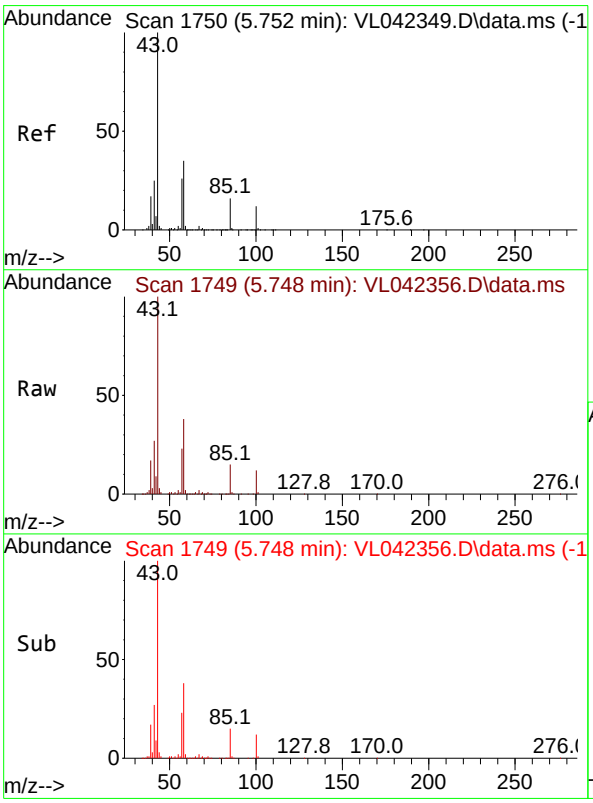

#49
Bromoform
Concen: 10.016 ppbv
RT: 9.483 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

Tgt Ion:173 Resp: 205630

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 47.6 | 38.2 | 57.2 |
| 171 | 52.5 | 40.9 | 61.3 |

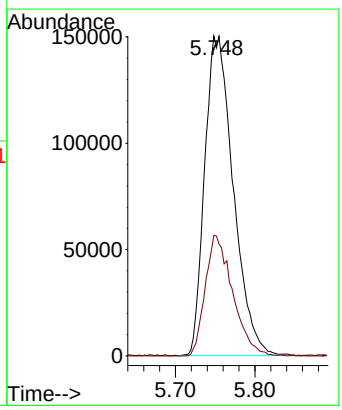


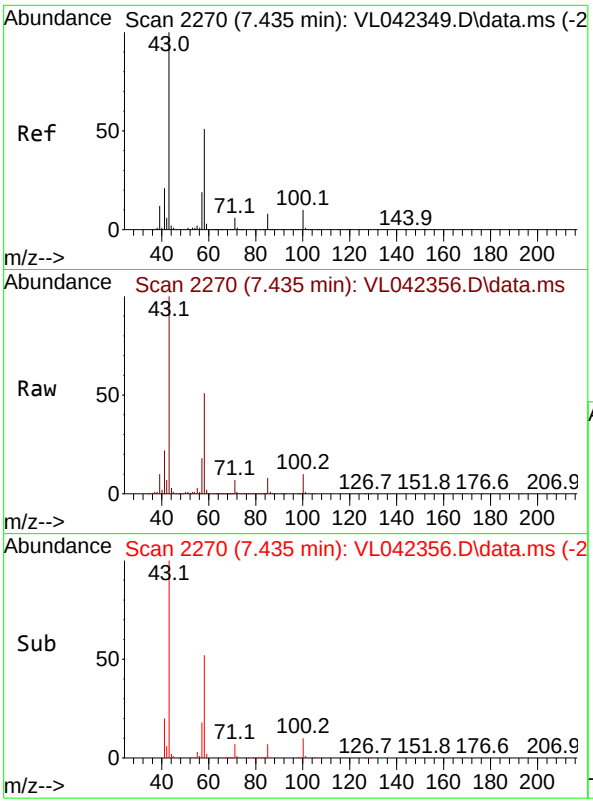




#50
4-Methyl-2-Pentanone
Concen: 8.819 ppbv
RT: 5.748 min Scan# 1749
Delta R.T. -0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 43 Resp: 376145

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 36.2 | 28.6 | 43.0 |



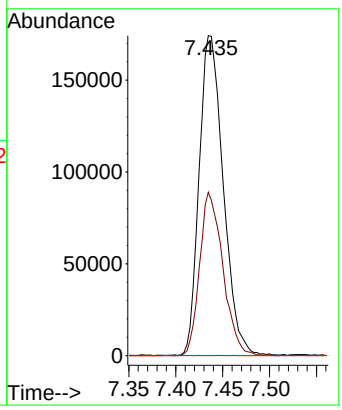


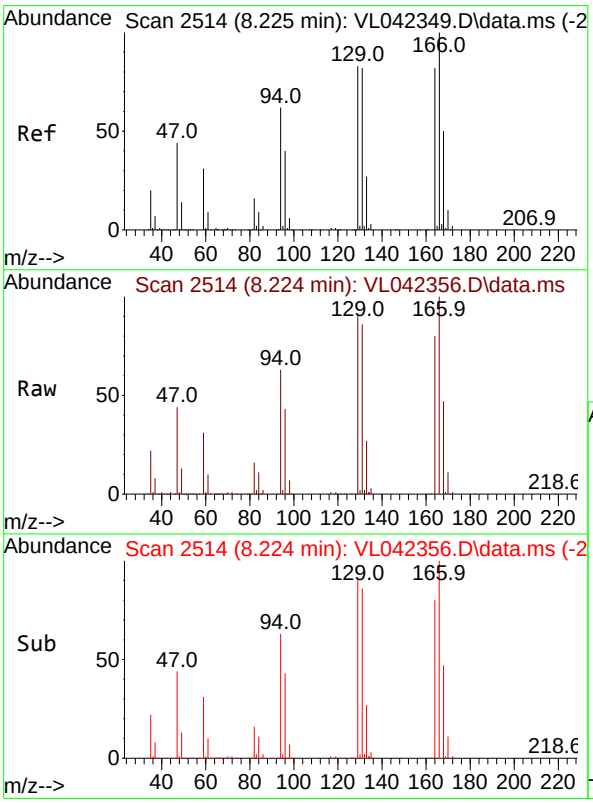

#51
2-Hexanone
Concen: 8.118 ppbv
RT: 7.435 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

Tgt Ion: 43 Resp: 310521

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 49.3 | 40.2 | 60.4 |
| 98 | 0.0 | 0.1 | 0.1# |

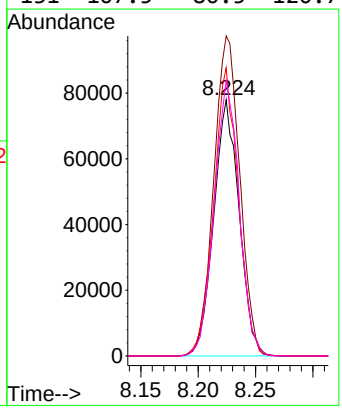


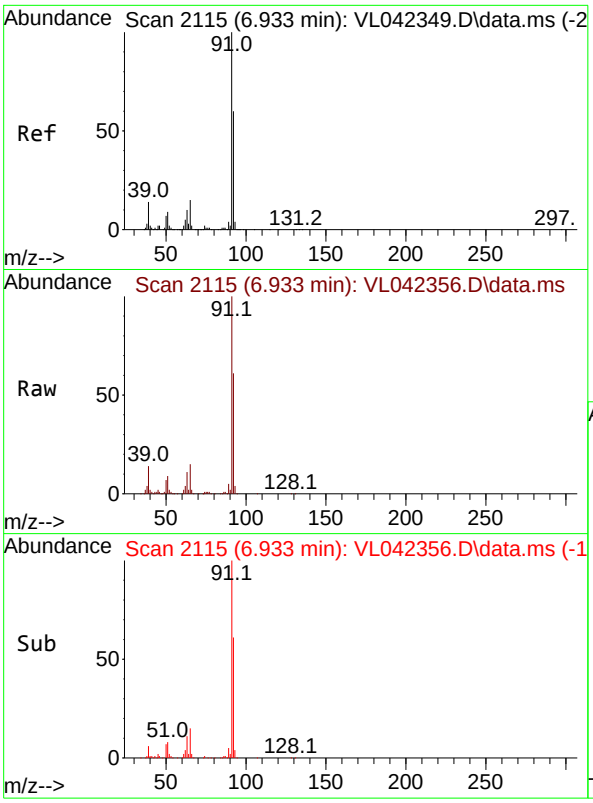




#52
Tetrachloroethene
Concen: 8.827 ppbv
RT: 8.224 min Scan# 2514
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:164 Resp: 119424

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 124.9 | 98.2 | 147.2 |
| 129 | 112.5 | 81.8 | 122.8 |
| 131 | 107.5 | 80.5 | 120.7 |



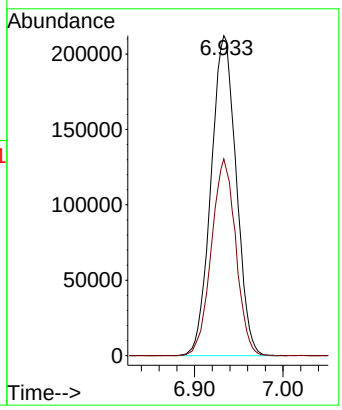


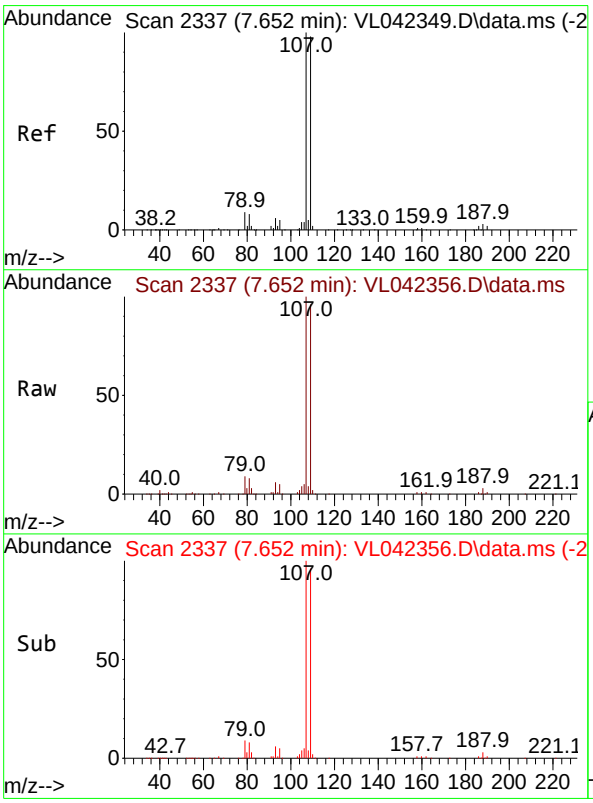

#53
Toluene
Concen: 9.986 ppbv
RT: 6.933 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

Tgt Ion: 91 Resp: 419462

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 59.6 | 48.2 | 72.4 |

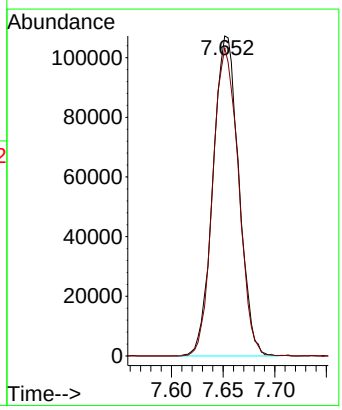


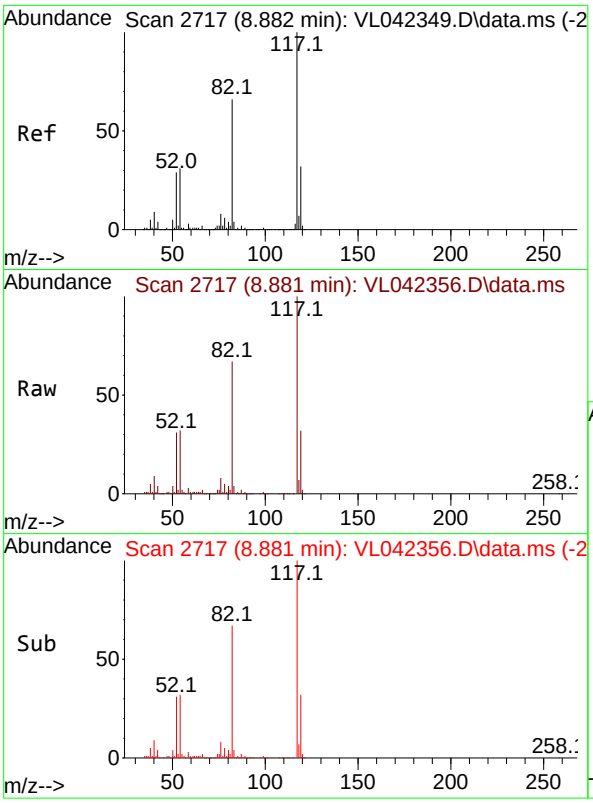




#54
1,2-Dibromoethane
Concen: 9.792 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:107 Resp: 186231

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 96.3 | 78.2 | 117.4 |



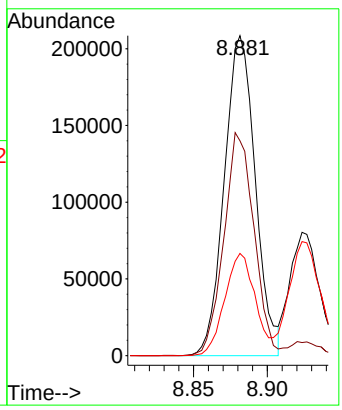


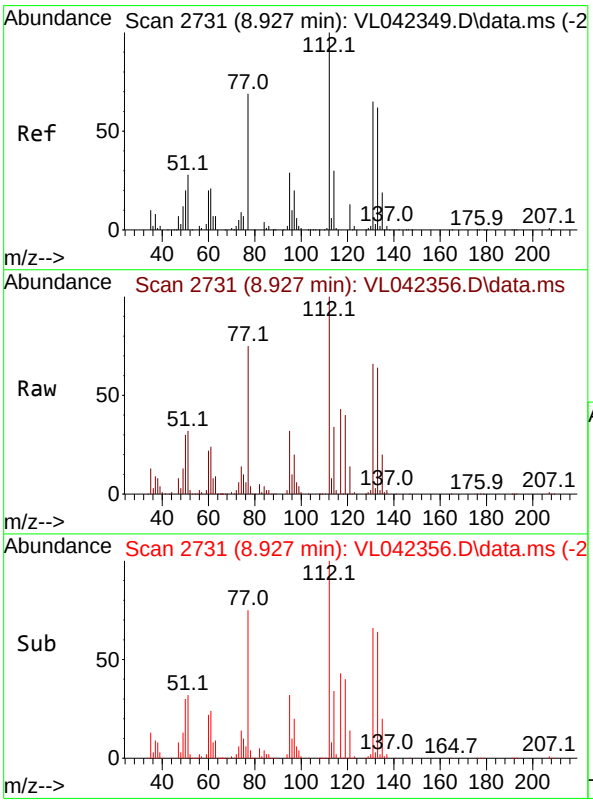

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

Tgt Ion:117 Resp: 305357

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 68.3 | 57.8 | 86.6 |
| 119 | 31.8 | 25.2 | 37.8 |

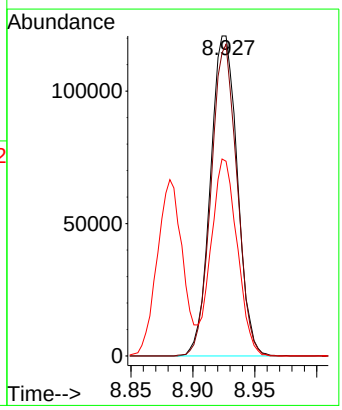


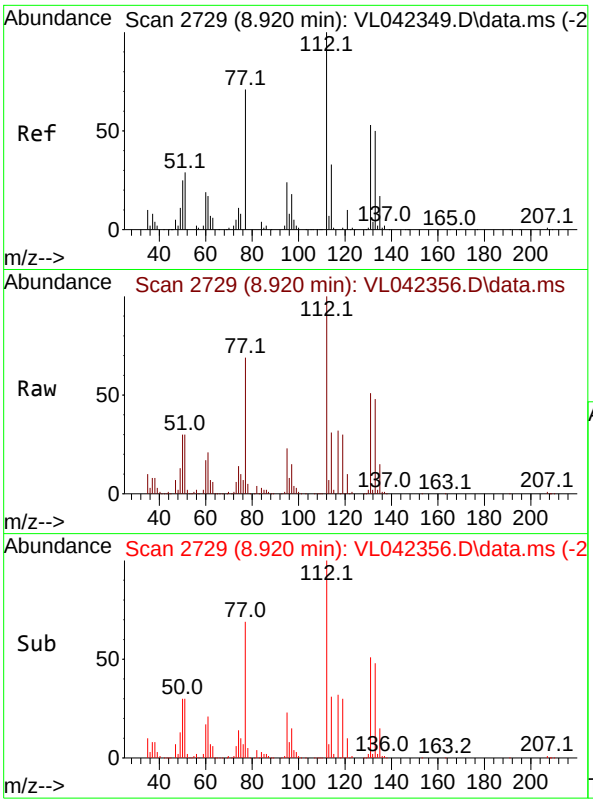




#56
1,1,1,2-Tetrachloroethane
Concen: 9.886 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:131 Resp: 182712

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 93.9 | 78.3 | 117.5 |
| 119 | 59.4 | 48.7 | 73.1 |



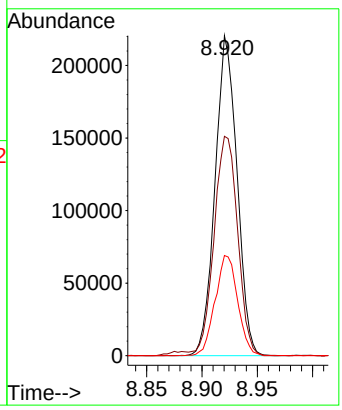


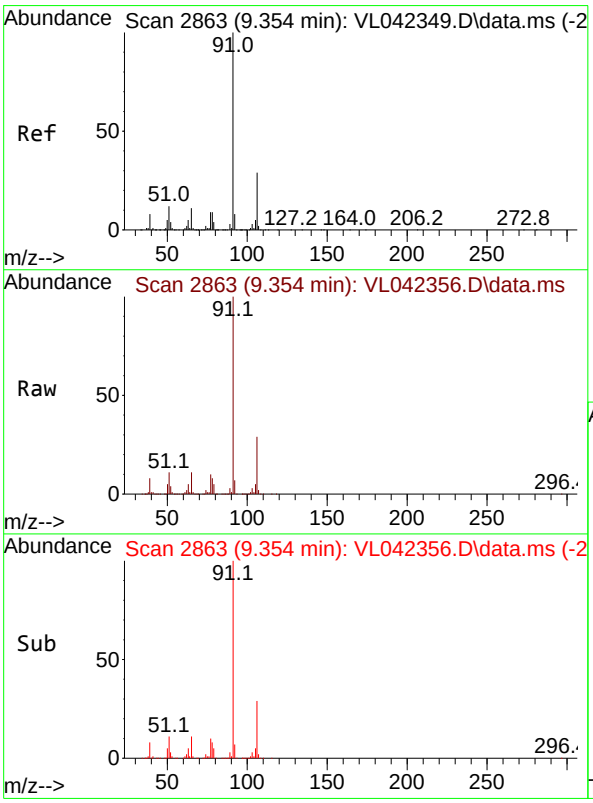

#57
Chlorobenzene
Concen: 9.589 ppbv
RT: 8.920 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

Tgt Ion:112 Resp: 304533

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 68.5 | 57.8 | 86.6 |
| 114 | 31.3 | 29.3 | 35.9 |

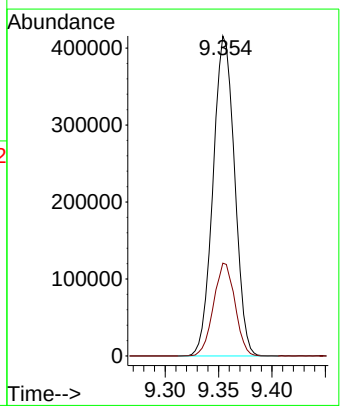


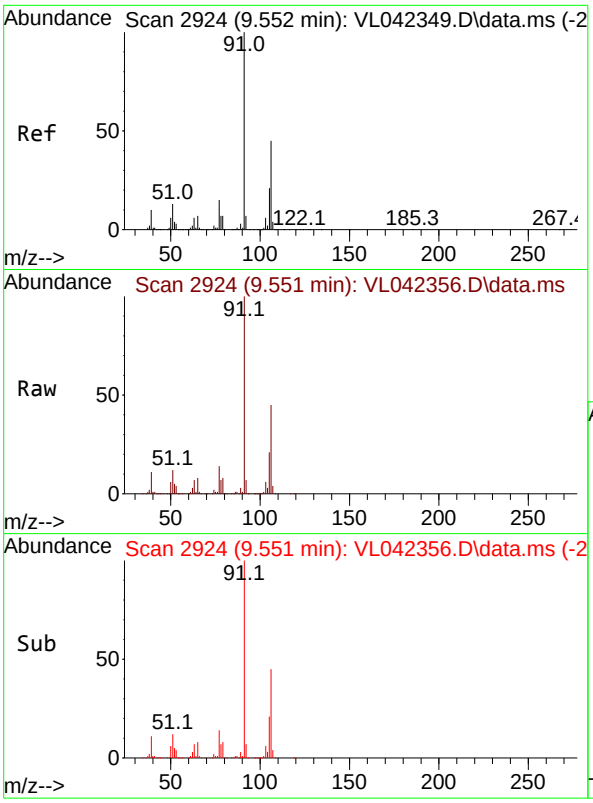




#58
Ethyl Benzene
Concen: 9.645 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 91 Resp: 583515

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.0 | 23.0 | 34.4 |



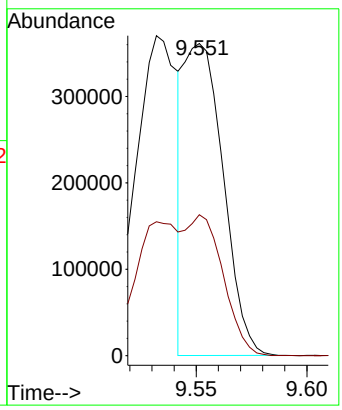


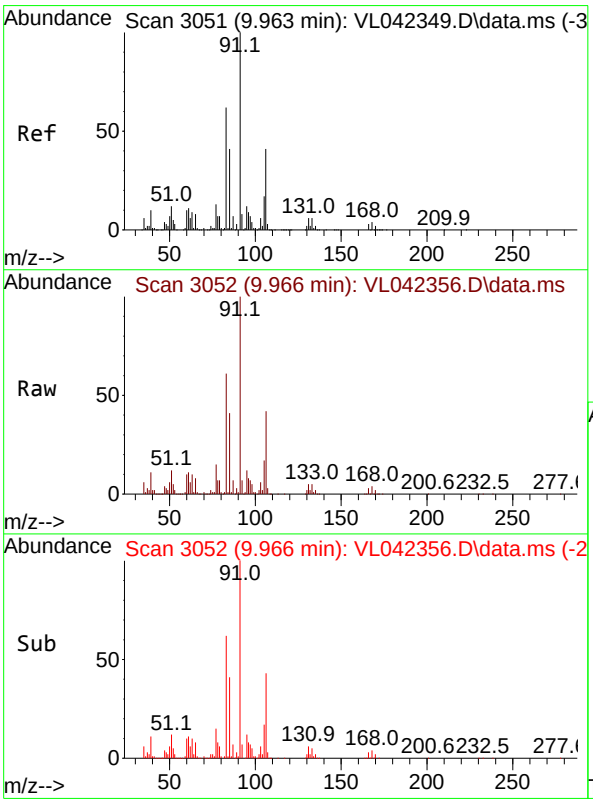

#59
m/p-Xylene
Concen: 9.084 ppbv
RT: 9.551 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

Tgt Ion: 91 Resp: 442744

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 92.1 | 35.4 | 53.2# |

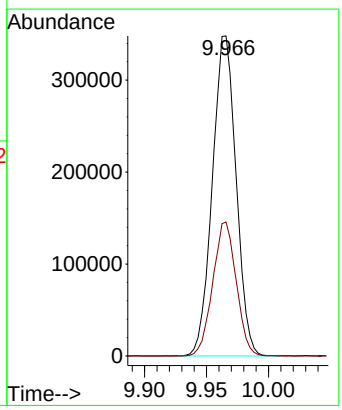


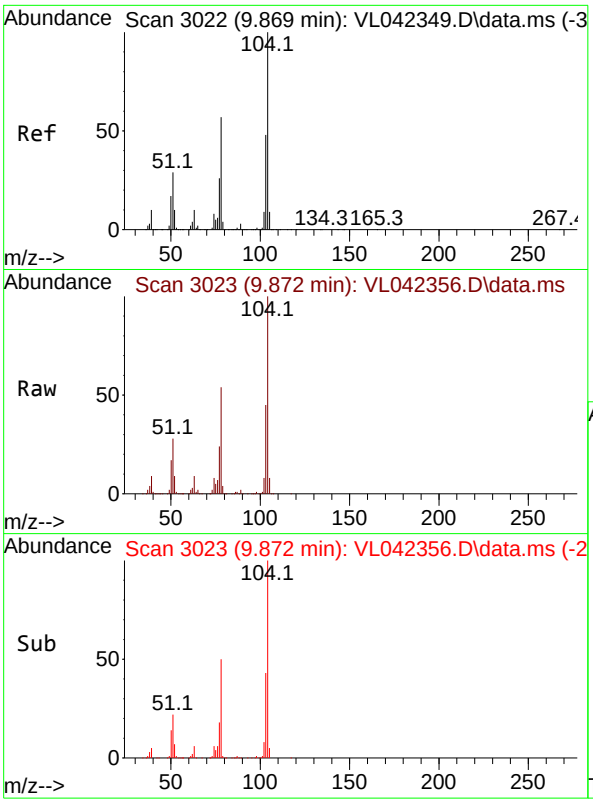




#60
o-Xylene
Concen: 9.465 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 91 Resp: 464522

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 41.4 | 21.1 | 63.4 |



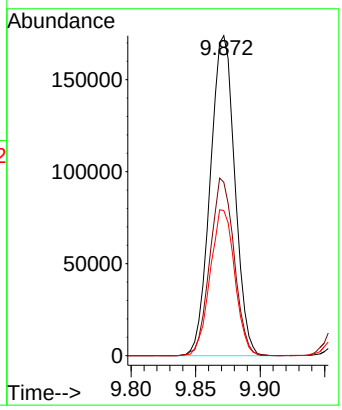


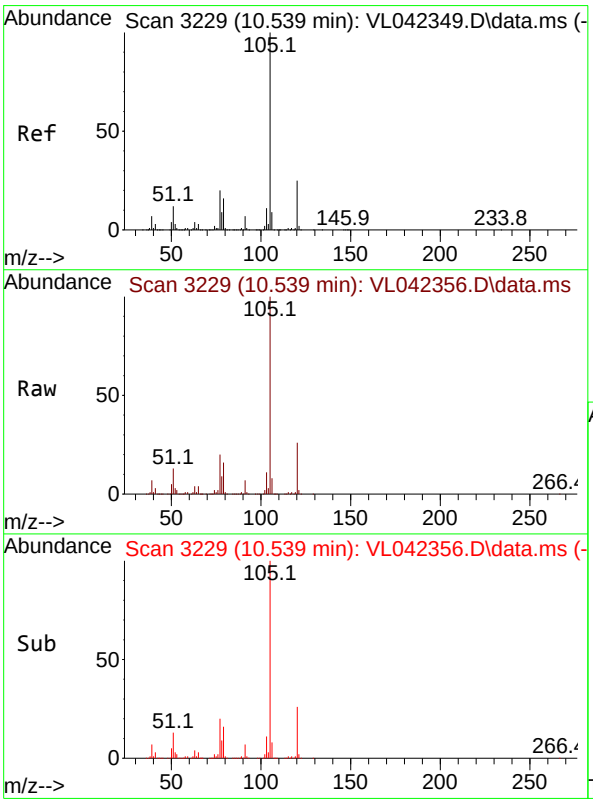

#61
Styrene
Concen: 9.813 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

Tgt Ion:104 Resp: 229869

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 54.5 | 44.6 | 66.8 |
| 103 | 45.7 | 37.4 | 56.0 |

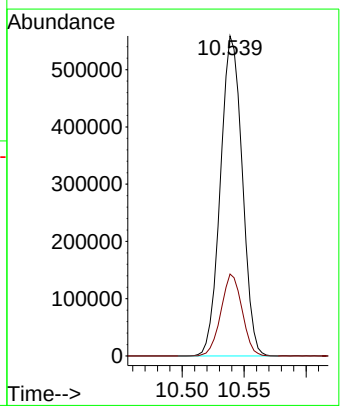


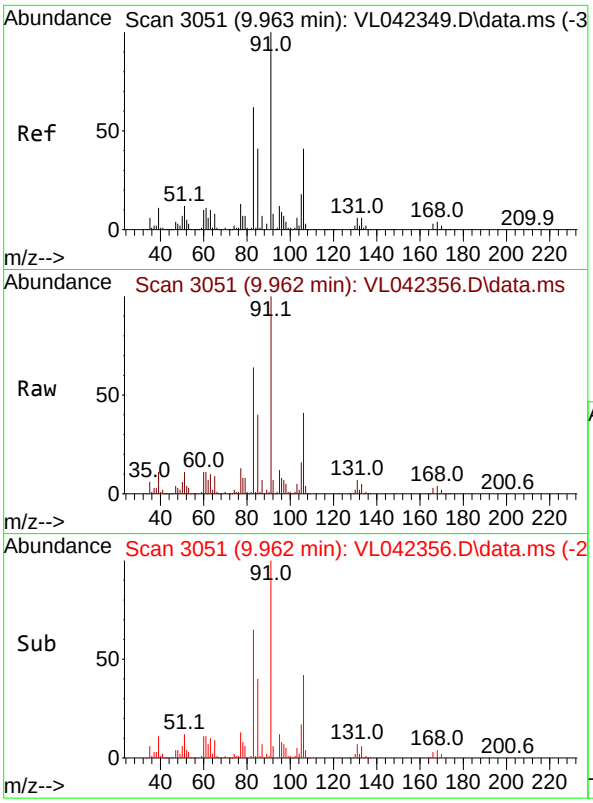




#62
Isopropylbenzene
Concen: 9.520 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:105 Resp: 685965

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 24.8 | 19.8 | 29.8 |



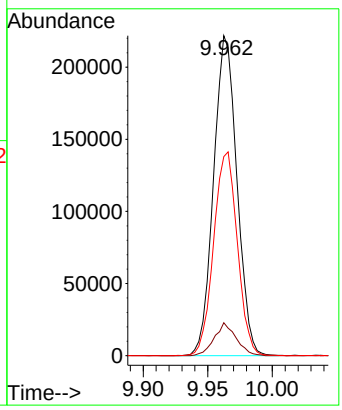


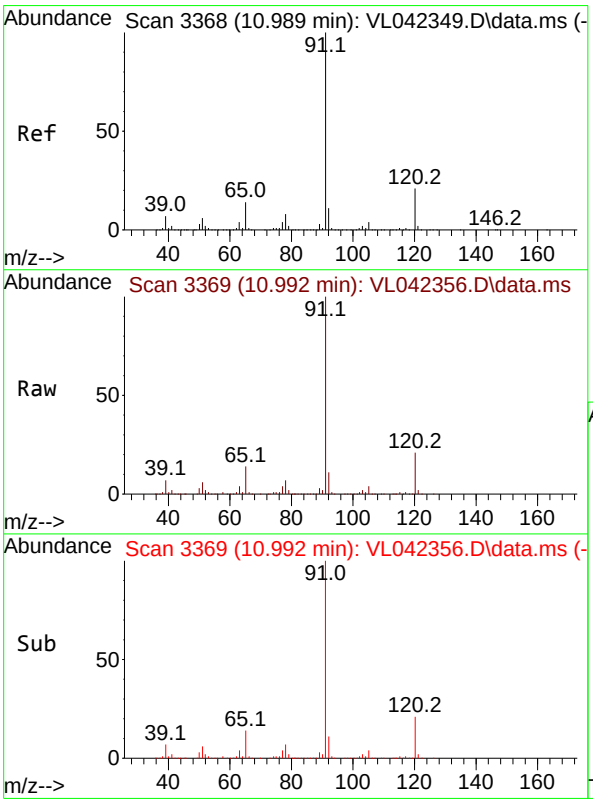

#63
1,1,2,2-Tetrachloroethane
Concen: 8.773 ppbv
RT: 9.962 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

Tgt Ion: 83 Resp: 279007

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.6 | 4.5 | 13.7 |
| 85 | 64.6 | 32.4 | 97.0 |

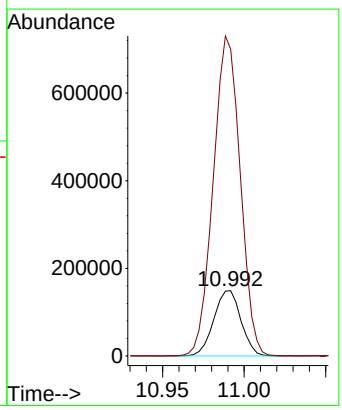


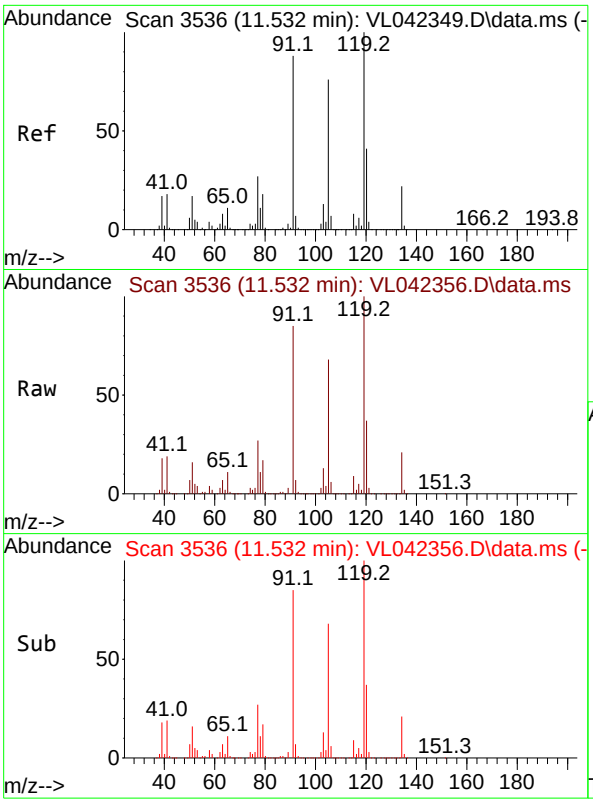




#64
n-propylbenzene
Concen: 9.533 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:120 Resp: 172654

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 487.7 | 392.4 | 588.6 |



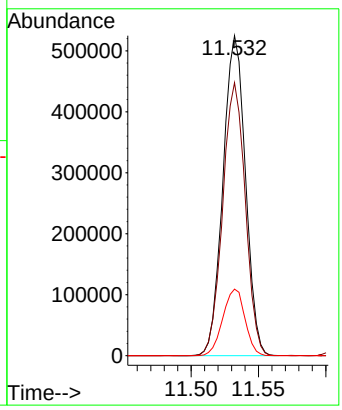


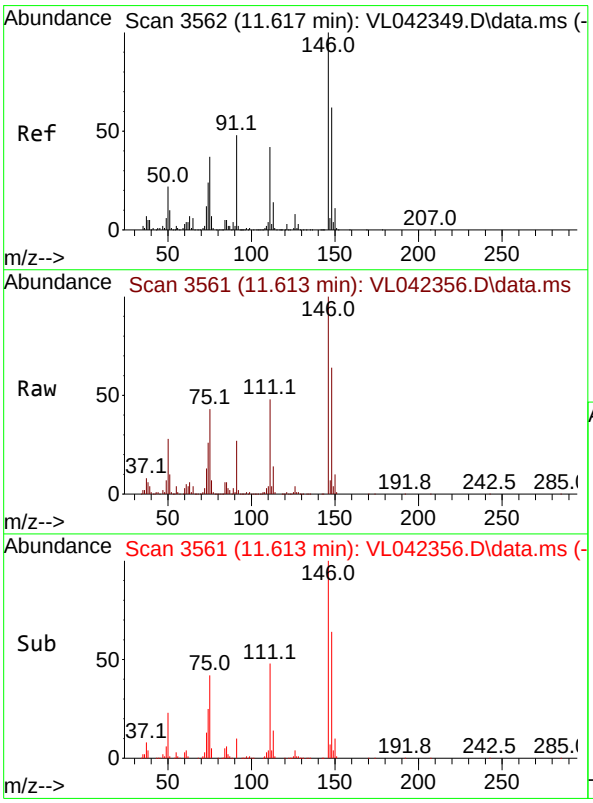

#65
tert-Butylbenzene
Concen: 9.203 ppbv
RT: 11.532 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

Tgt Ion:119 Resp: 609500

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 85.8 | 74.6 | 111.8 |
| 134 | 20.5 | 18.8 | 28.2 |

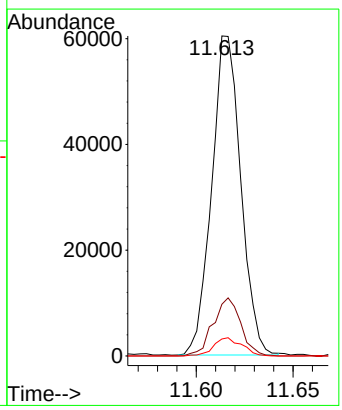


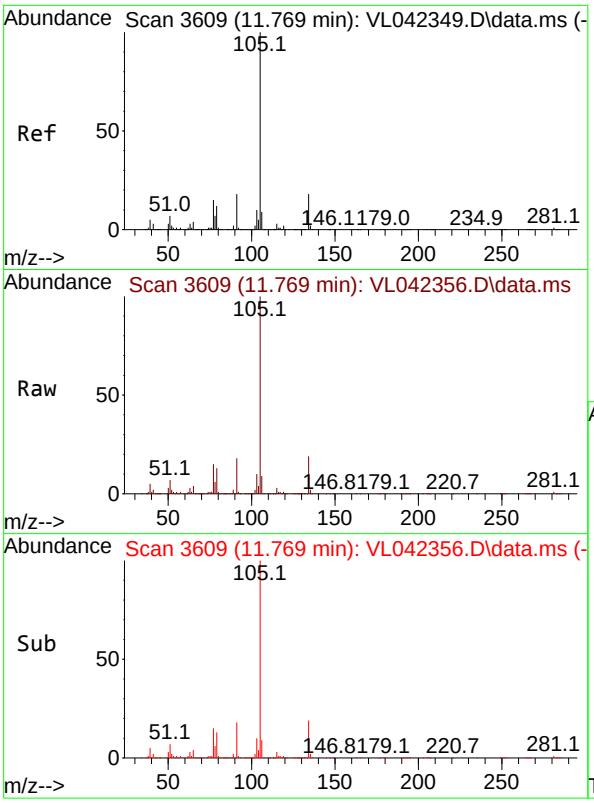




#66
Benzyl Chloride
Concen: 8.664 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. -0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 91 Resp: 63051

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 17.3 | 11.8 | 17.6 |
| 128 | 5.6 | 4.5 | 6.7 |



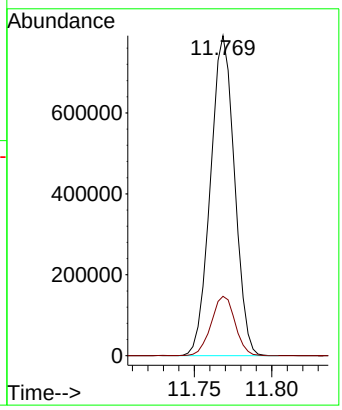


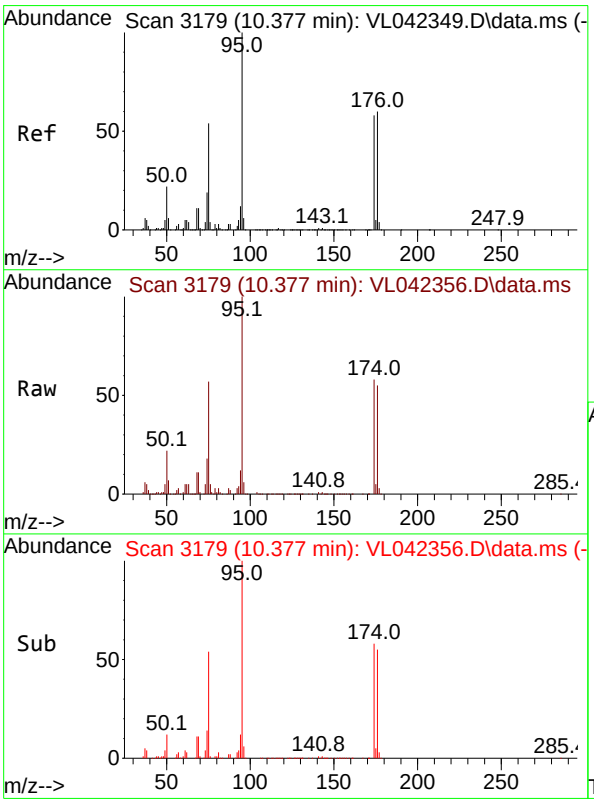

#67
sec-Butylbenzene
Concen: 9.268 ppbv
RT: 11.769 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

Tgt Ion:105 Resp: 853807

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 18.5 | 14.6 | 21.8 |

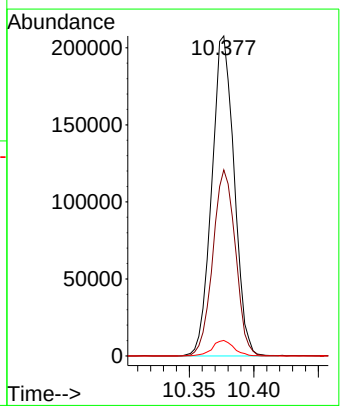


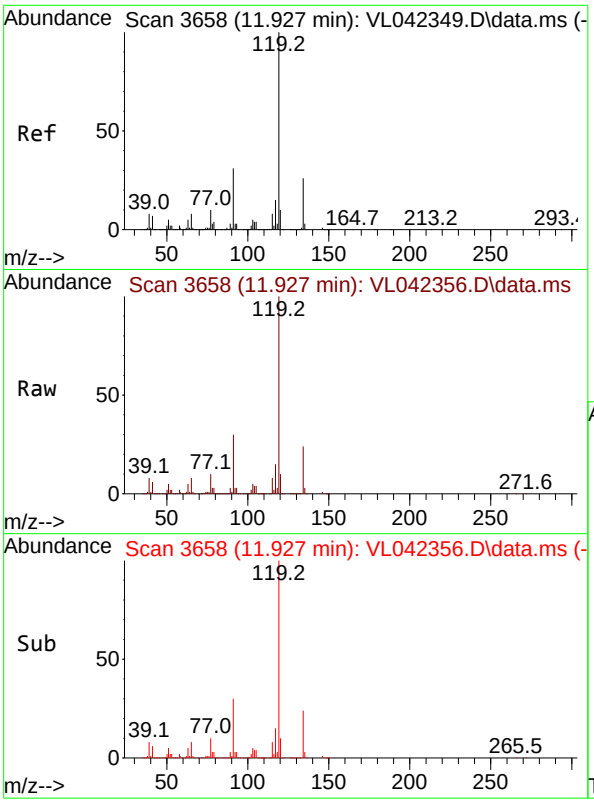




#68
1-Bromo-4-Fluorobenzene
Concen: 9.969 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 95 Resp: 250149

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 58.7 | 48.5 | 72.7 |
| 175 | 4.7 | 3.7 | 5.5 |



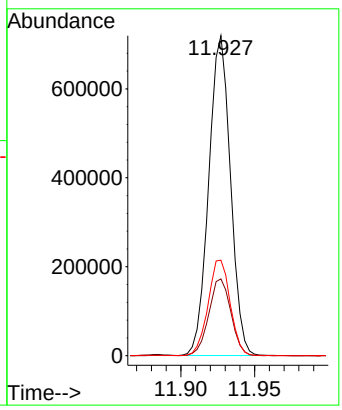


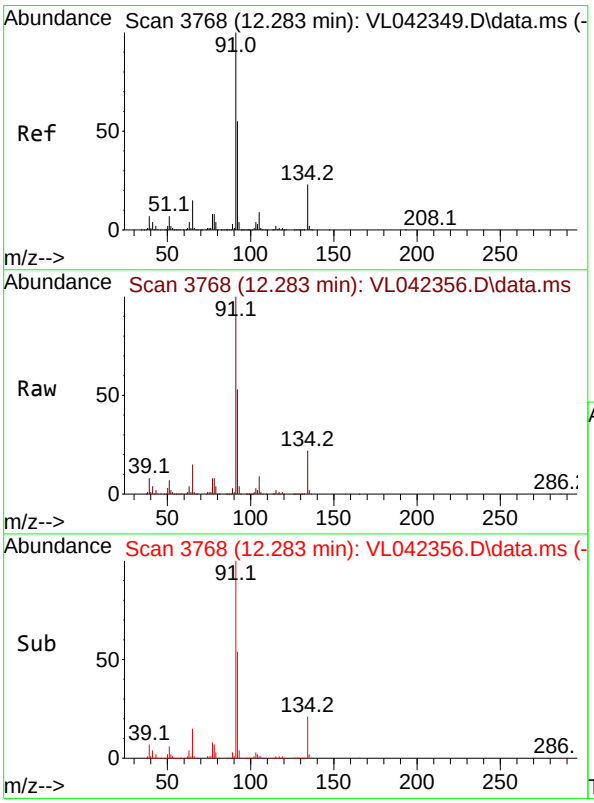

#69
p-Isopropyltoluene
Concen: 9.220 ppbv
RT: 11.927 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

Tgt Ion:119 Resp: 737861

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 24.5 | 20.0 | 30.0 |
| 91 | 30.6 | 24.4 | 36.6 |

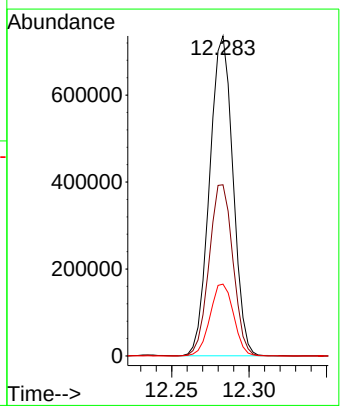


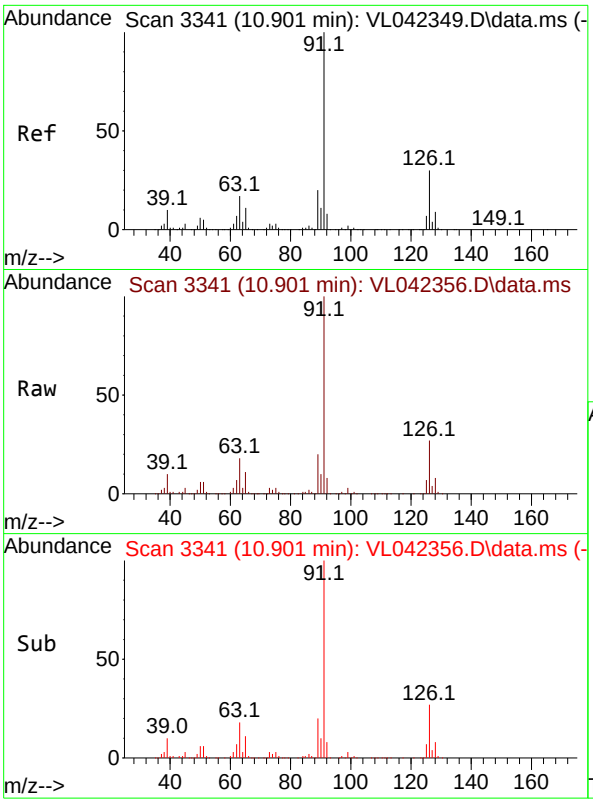




#70
n-Butylbenzene
Concen: 9.255 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 91 Resp: 771461

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 54.9 | 44.2 | 66.4 |
| 134 | 22.7 | 18.2 | 27.4 |



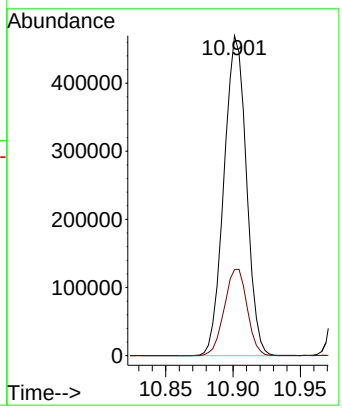


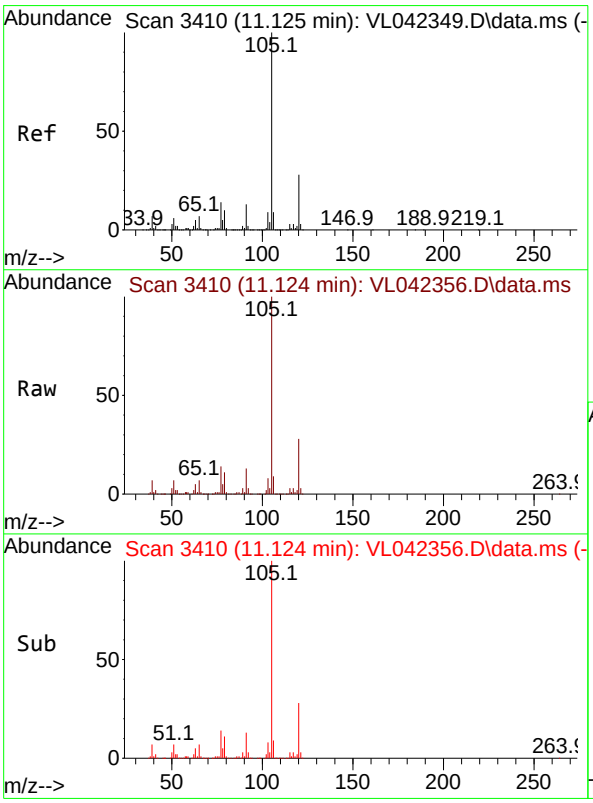

#71
2-Chlorotoluene
Concen: 9.622 ppbv
RT: 10.901 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

Tgt Ion: 91 Resp: 543794

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 27.5 | 11.4 | 45.4 |

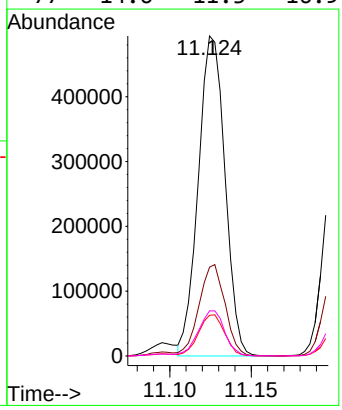


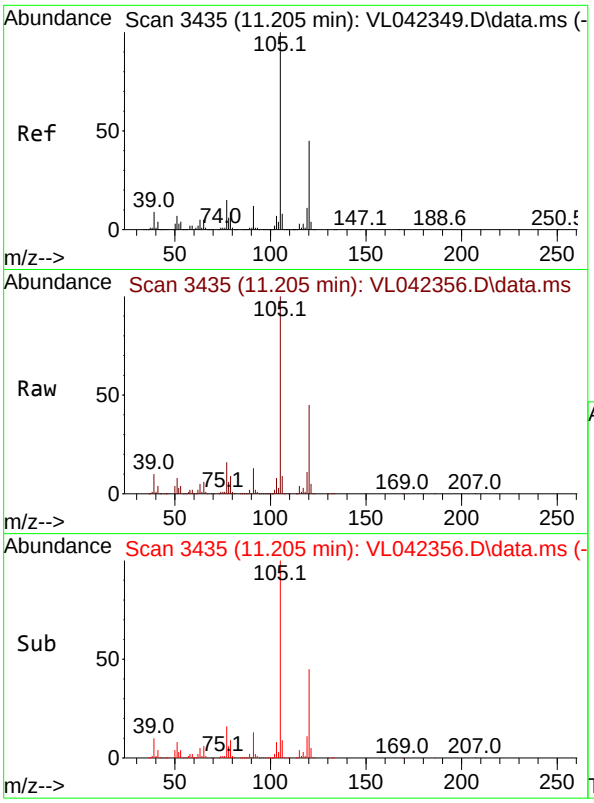




#72
4-Ethyltoluene
Concen: 9.385 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:105 Resp: 563136

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 28.9 | 23.2 | 34.8 |
| 91 | 13.2 | 10.4 | 15.6 |
| 77 | 14.6 | 11.3 | 16.9 |



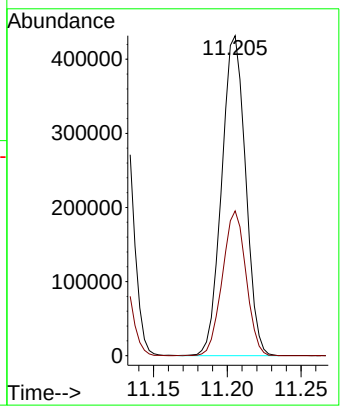


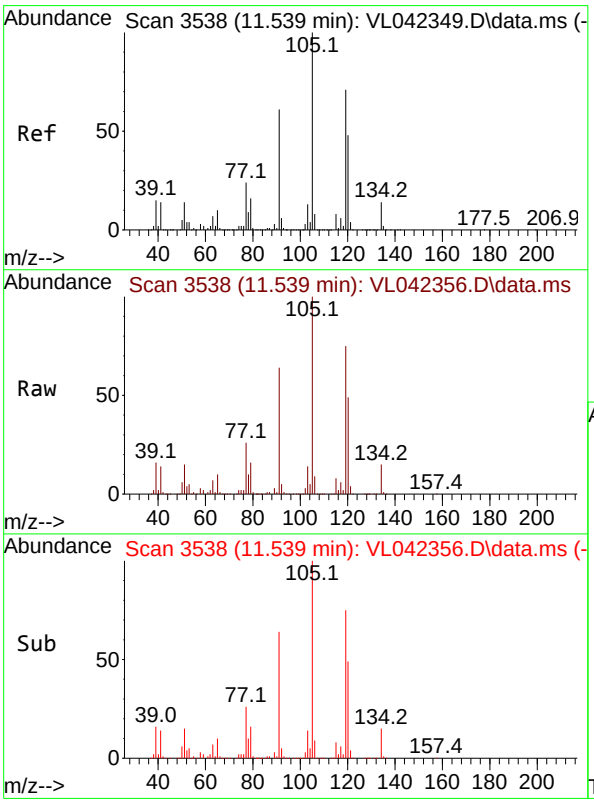

#73
1,3,5-Trimethylbenzene
Concen: 9.186 ppbv
RT: 11.205 min Scan# 34
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

Tgt Ion:105 Resp: 486583

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.2 | 35.6 | 53.4 |

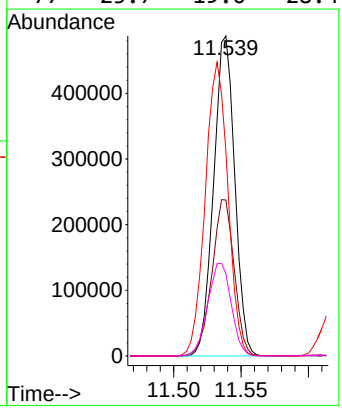


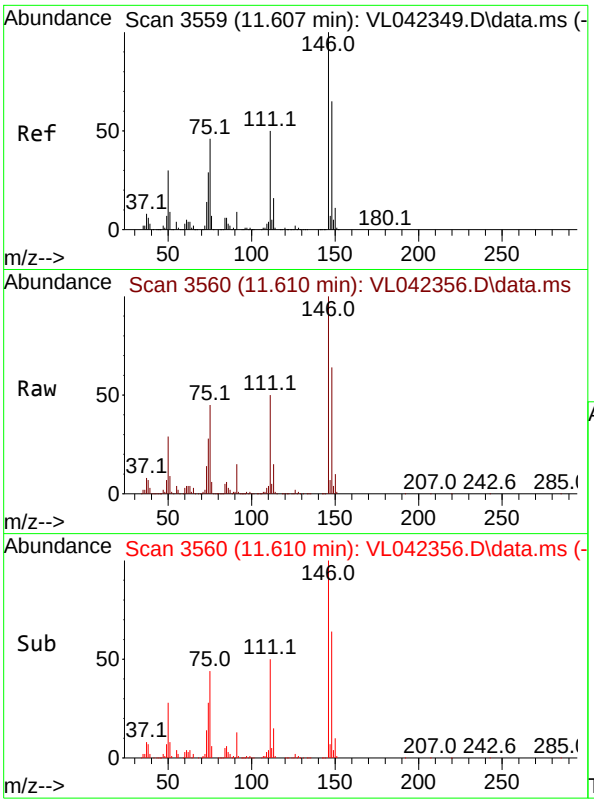




#74
1,2,4-Trimethylbenzene
Concen: 8.592 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:105 Resp: 531576

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.7 | 38.1 | 57.1 |
| 91 | 64.0 | 48.8 | 73.2 |
| 77 | 25.7 | 19.0 | 28.4 |



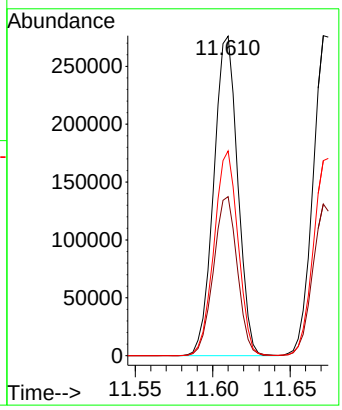


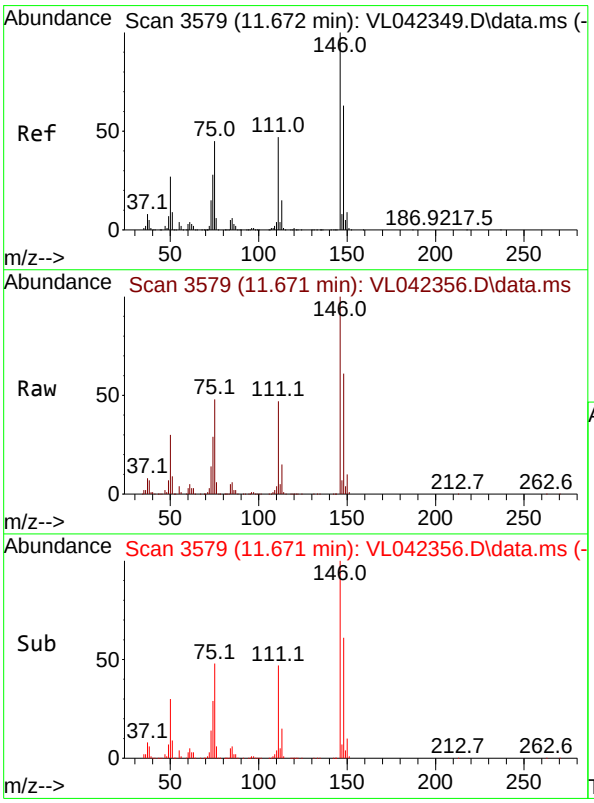

#75
1,3-Dichlorobenzene
Concen: 9.240 ppbv
RT: 11.610 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

Tgt Ion:146 Resp: 297157

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 49.5 | 24.3 | 72.8 |
| 148 | 64.1 | 31.6 | 94.8 |

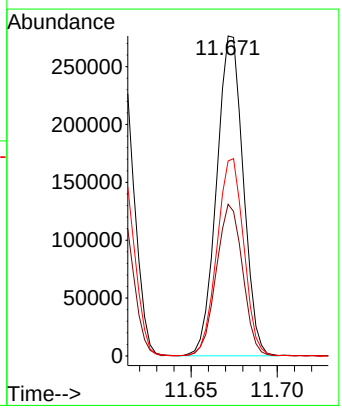


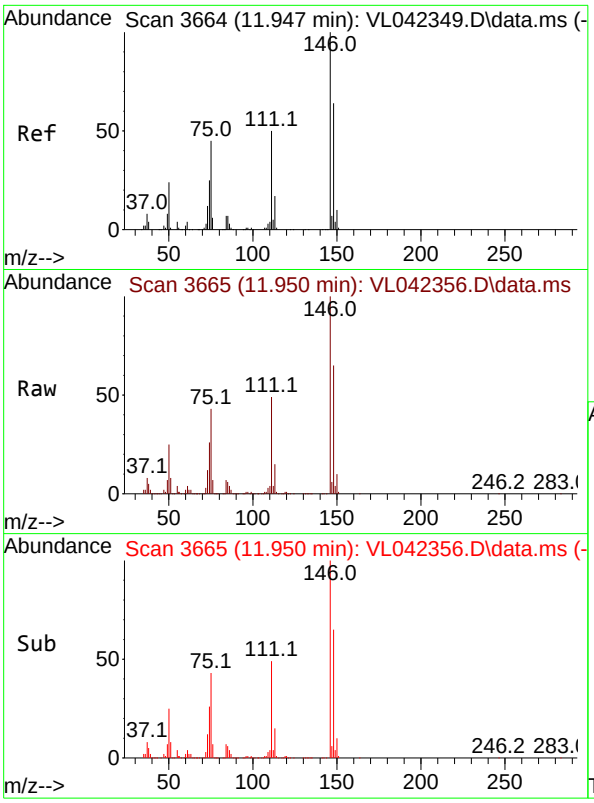




#76
1,4-Dichlorobenzene
Concen: 9.210 ppbv
RT: 11.671 min Scan# 3579
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:146 Resp: 297697

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 47.1 | 24.2 | 72.6 |
| 148 | 62.3 | 32.1 | 96.5 |



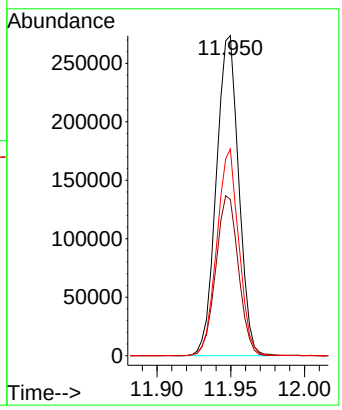


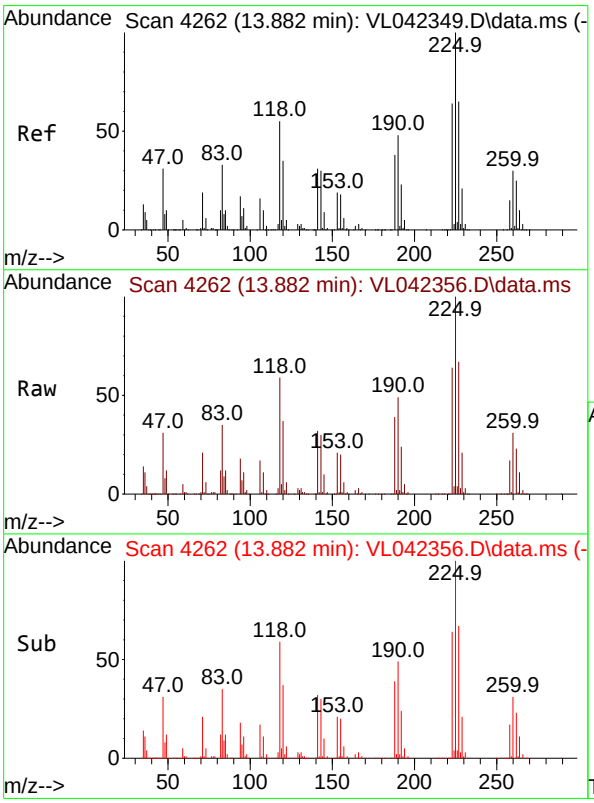

#77
1,2-Dichlorobenzene
Concen: 9.251 ppbv
RT: 11.950 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

Tgt Ion:146 Resp: 289284

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 50.8 | 25.3 | 75.9 |
| 148 | 63.4 | 31.5 | 94.5 |

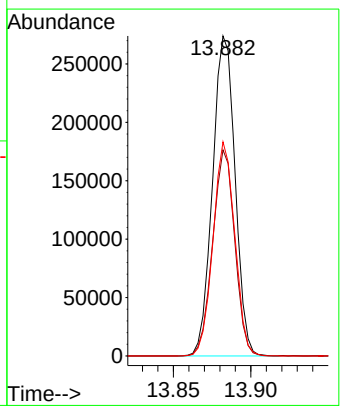


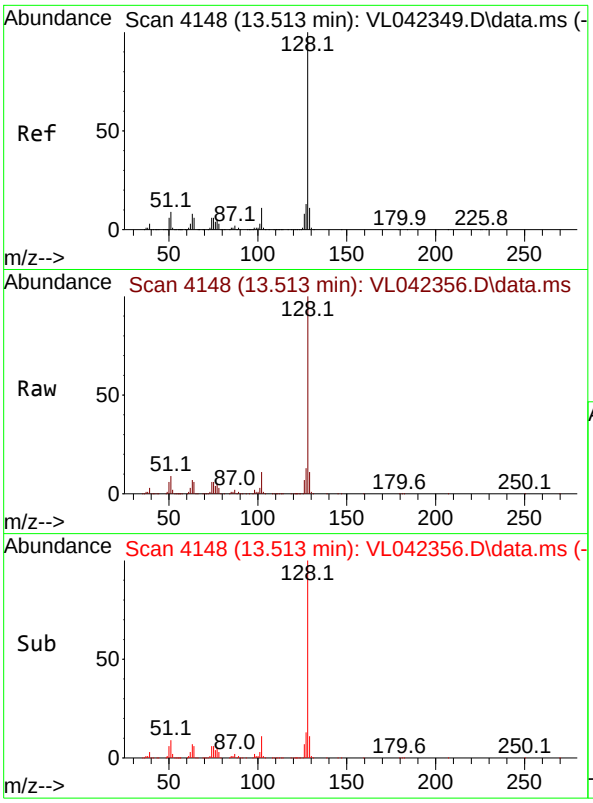




#78
Hexachloro-1,3-Butadiene
Concen: 8.771 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:225 Resp: 276960

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.0 | 50.3 | 75.5 |
| 227 | 64.5 | 51.5 | 77.3 |



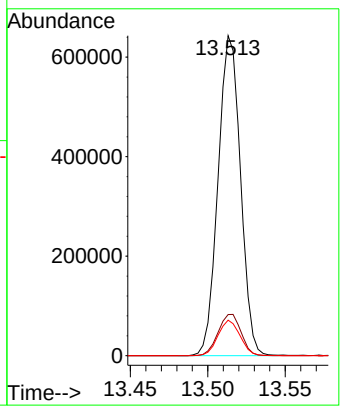


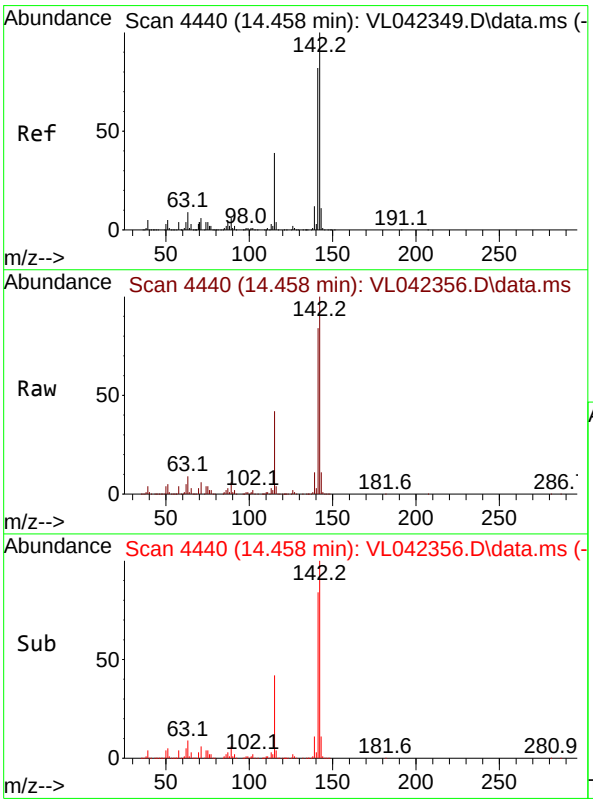

#79
Naphthalene
Concen: 8.750 ppbv
RT: 13.513 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

Tgt Ion:128 Resp: 647349

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.9 | 10.6 | 15.8 |
| 129 | 11.1 | 8.6 | 12.8 |

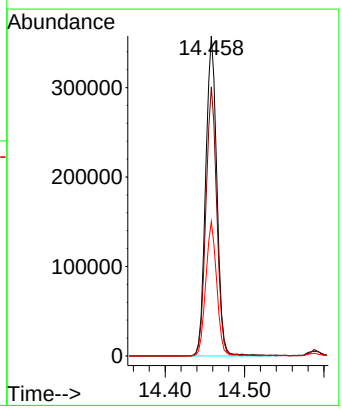


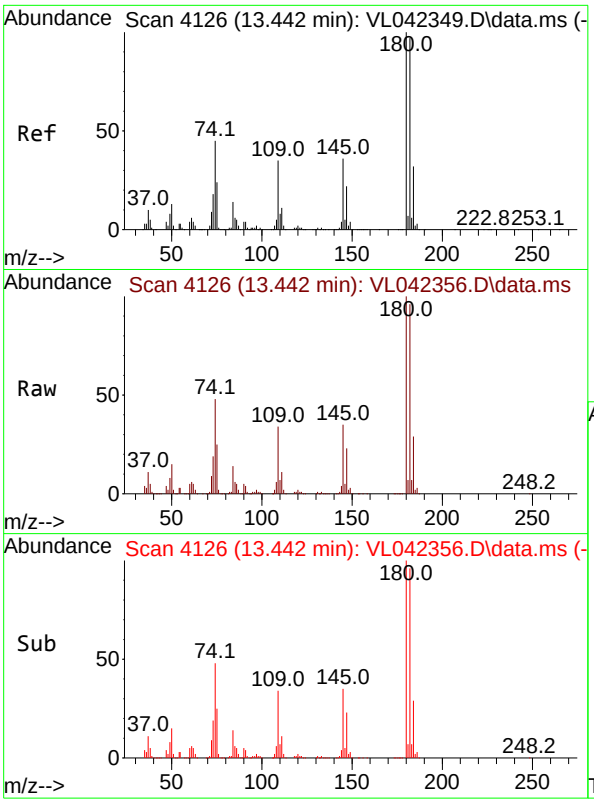




#80
Naphthalene,2-methyl-
Concen: 8.307 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:142 Resp: 350259

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 83.0 | 66.8 | 100.2 |
| 115 | 41.4 | 33.4 | 50.2 |



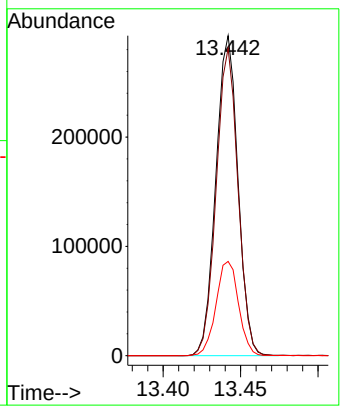



#81
1,2,4-Trichlorobenzene
Concen: 9.136 ppbv
RT: 13.442 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

**Instrument :**
MSVOA_L
**ClientSampleId :**
ICVVL041725

Tgt Ion:180 Resp: 290260

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.7 | 76.8 | 115.2 |
| 184 | 30.1 | 24.6 | 36.8 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042358.D
Acq On : 17 Apr 2025 15:39
Operator : SY/MD
Sample : VL0417ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

Quant Time: Apr 18 02:36:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.790 | 49 | 122375 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.965 | 114 | 352201 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.888 | 117 | 321521 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.380 | 95 | 266757 | 10.096 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 101.000% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.499 | 85 | 223505 | 10.337 | ppbv | 97 |
| 3) Chlorodifluoromethane | 1.476 | 51 | 206172 | 10.014 | ppbv | 100 |
| 4) Chloromethane | 1.535 | 50 | 86675 | 10.130 | ppbv | 98 |
| 5) Vinyl Chloride | 1.583 | 62 | 83419 | 8.956 | ppbv | 98 |
| 6) Bromomethane | 1.670 | 94 | 36951 | 9.235 | ppbv | 83 |
| 7) Chloroethane | 1.706 | 64 | 33936 | 10.075 | ppbv | 100 |
| 8) Dichlorotetrafluoroethane | 1.557 | 85 | 189924 | 10.231 | ppbv | 95 |
| 9) Propene | 1.486 | 41 | 88088 | 9.395 | ppbv | 98 |
| 10) Heptane | 4.985 | 43 | 243501 | 9.244 | ppbv | 99 |
| 11) Trichlorofluoromethane | 1.881 | 101 | 206645 | 10.050 | ppbv | 98 |
| 12) 1,1,2-Trichlorotrifluo... | 2.140 | 101 | 169501 | 10.083 | ppbv | 98 |
| 13) Ethanol | 1.722 | 45 | 4837 | 3.246 | ppbv | 88 |
| 14) Bromoethene | 1.784 | 108 | 62214 | 9.818 | ppbv | 98 |
| 15) Acetone | 1.836 | 43 | 175153 | 8.743 | ppbv | 100 |
| 16) 1,3-Butadiene | 1.609 | 39 | 86965 | 9.076 | ppbv | 96 |
| 17) tert-Butyl alcohol | 2.043 | 59 | 242154 | 9.754 | ppbv | 100 |
| 18) 1,1-Dichloroethene | 2.036 | 96 | 77247 | 9.836 | ppbv | 99 |
| 19) Isopropyl Alcohol | 1.887 | 45 | 104123 | 9.356 | ppbv | 94 |
| 20) Methylene Chloride | 2.062 | 84 | 69548 | 8.865 | ppbv | 91 |
| 21) Allyl Chloride | 2.098 | 41 | 134221 | 9.704 | ppbv | 99 |
| 22) trans-1,2-Dichloroethene | 2.344 | 96 | 86323 | 9.653 | ppbv | 97 |
| 23) Vinyl Acetate | 2.467 | 43 | 68337 | 8.427 | ppbv # | 97 |
| 24) 1,1-Dichloroethane | 2.412 | 63 | 173238 | 10.199 | ppbv | 99 |
| 25) Ethyl Acetate | 2.839 | 43 | 488686 | 9.894 | ppbv | 100 |
| 26) Hexane | 2.829 | 57 | 195124 | 9.761 | ppbv | 97 |
| 27) Carbon Disulfide | 2.153 | 76 | 218345 | 10.202 | ppbv | 97 |
| 28) Methyl tert-Butyl Ether | 2.444 | 73 | 124554 | 9.510 | ppbv | 96 |
| 29) Chloroform | 2.852 | 83 | 289294 | 10.239 | ppbv | 99 |
| 30) Cyclohexane | 3.862 | 84 | 163017 | 10.088 | ppbv | 100 |
| 31) cis-1,2-Dichloroethene | 2.726 | 61 | 198108 | 10.424 | ppbv | 98 |
| 32) 1,1,1-Trichloroethane | 3.373 | 97 | 309460 | 9.729 | ppbv | 99 |
| 34) 2-Butanone | 2.561 | 43 | 272600 | 9.787 | ppbv | 99 |
| 35) Carbon Tetrachloride | 3.768 | 117 | 305245 | 9.576 | ppbv | 92 |
| 36) Benzene | 3.661 | 78 | 383239 | 10.088 | ppbv | 98 |
| 37) 1,2-Dichloroethane | 3.224 | 62 | 236611 | 10.377 | ppbv | 99 |
| 38) Trichloroethene | 4.558 | 130 | 153596 | 9.251 | ppbv | 98 |
| 39) 1,2-Dichloropropane | 4.321 | 63 | 139669 | 9.866 | ppbv | 95 |
| 40) 1,4-Dioxane | 4.590 | 88 | 67808 | 8.716 | ppbv # | 95 |
| 41) Tetrahydrofuran | 3.059 | 42 | 157777 | 9.715 | ppbv | 99 |
| 42) Bromodichloromethane | 4.496 | 83 | 327652 | 10.326 | ppbv | 98 |
| 43) Methyl Methacrylate | 4.888 | 69 | 159292 | 9.304 | ppbv | 95 |
| 44) 2,2,4-Trimethylpentane | 4.648 | 57 | 657377 | 10.019 | ppbv | 99 |
| 45) t-1,3-Dichloropropene | 6.422 | 75 | 172514 | 9.864 | ppbv | 91 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042358.D
Acq On : 17 Apr 2025 15:39
Operator : SY/MD
Sample : VL0417ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

Quant Time: Apr 18 02:36:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.606 | 75 | 216901 | 10.133 | ppbv | | 91 |
| 47) 1,1,2-Trichloroethane | 6.590 | 97 | 146547 | 10.161 | ppbv | | 96 |
| 48) Dibromochloromethane | 7.396 | 129 | 261470 | 10.261 | ppbv | | 100 |
| 49) Bromoform | 9.487 | 173 | 221372 | 9.936 | ppbv | | 99 |
| 50) 4-Methyl-2-Pentanone | 5.758 | 43 | 407804 | 8.810 | ppbv | | 99 |
| 51) 2-Hexanone | 7.441 | 43 | 332646 | 8.013 | ppbv | # | 98 |
| 52) Tetrachloroethene | 8.231 | 164 | 128670 | 8.763 | ppbv | | 96 |
| 53) Toluene | 6.943 | 91 | 447581 | 9.818 | ppbv | | 100 |
| 54) 1,2-Dibromoethane | 7.658 | 107 | 204328 | 9.899 | ppbv | | 97 |
| 56) 1,1,1,2-Tetrachloroethane | 8.930 | 131 | 199945 | 10.275 | ppbv | | 96 |
| 57) Chlorobenzene | 8.927 | 112 | 335143 | 10.022 | ppbv | | 99 |
| 58) Ethyl Benzene | 9.361 | 91 | 635446 | 9.975 | ppbv | | 97 |
| 59) m/p-Xylene | 9.555 | 91 | 513237 | 10.001 | ppbv | # | 33 |
| 60) o-Xylene | 9.969 | 91 | 506535 | 9.802 | ppbv | | 99 |
| 61) Styrene | 9.875 | 104 | 248022 | 10.055 | ppbv | | 99 |
| 62) Isopropylbenzene | 10.545 | 105 | 745571 | 9.827 | ppbv | | 99 |
| 63) 1,1,2,2-Tetrachloroethane | 9.969 | 83 | 298581 | 8.916 | ppbv | | 100 |
| 64) n-propylbenzene | 10.995 | 120 | 188310 | 9.875 | ppbv | | 95 |
| 65) tert-Butylbenzene | 11.536 | 119 | 668687 | 9.589 | ppbv | | 93 |
| 66) Benzyl Chloride | 11.620 | 91 | 69058 | 9.012 | ppbv | | 96 |
| 67) sec-Butylbenzene | 11.772 | 105 | 930426 | 9.592 | ppbv | | 100 |
| 69) p-Isopropyltoluene | 11.931 | 119 | 795532 | 9.441 | ppbv | | 99 |
| 70) n-Butylbenzene | 12.287 | 91 | 846427 | 9.644 | ppbv | | 100 |
| 71) 2-Chlorotoluene | 10.905 | 91 | 591154 | 9.934 | ppbv | | 99 |
| 72) 4-Ethyltoluene | 11.131 | 105 | 606879 | 9.606 | ppbv | | 99 |
| 73) 1,3,5-Trimethylbenzene | 11.209 | 105 | 533060 | 9.557 | ppbv | | 98 |
| 74) 1,2,4-Trimethylbenzene | 11.542 | 105 | 584747 | 8.976 | ppbv | | 96 |
| 75) 1,3-Dichlorobenzene | 11.613 | 146 | 320811 | 9.474 | ppbv | | 99 |
| 76) 1,4-Dichlorobenzene | 11.675 | 146 | 319376 | 9.384 | ppbv | | 100 |
| 77) 1,2-Dichlorobenzene | 11.953 | 146 | 311460 | 9.459 | ppbv | | 99 |
| 78) Hexachloro-1,3-Butadiene | 13.886 | 225 | 303379 | 9.124 | ppbv | | 99 |
| 79) Naphthalene | 13.517 | 128 | 701010 | 8.999 | ppbv | | 99 |
| 80) Naphthalene,2-methyl- | 14.462 | 142 | 369891 | 8.331 | ppbv | | 98 |
| 81) 1,2,4-Trichlorobenzene | 13.445 | 180 | 315002 | 9.417 | ppbv | | 99 |

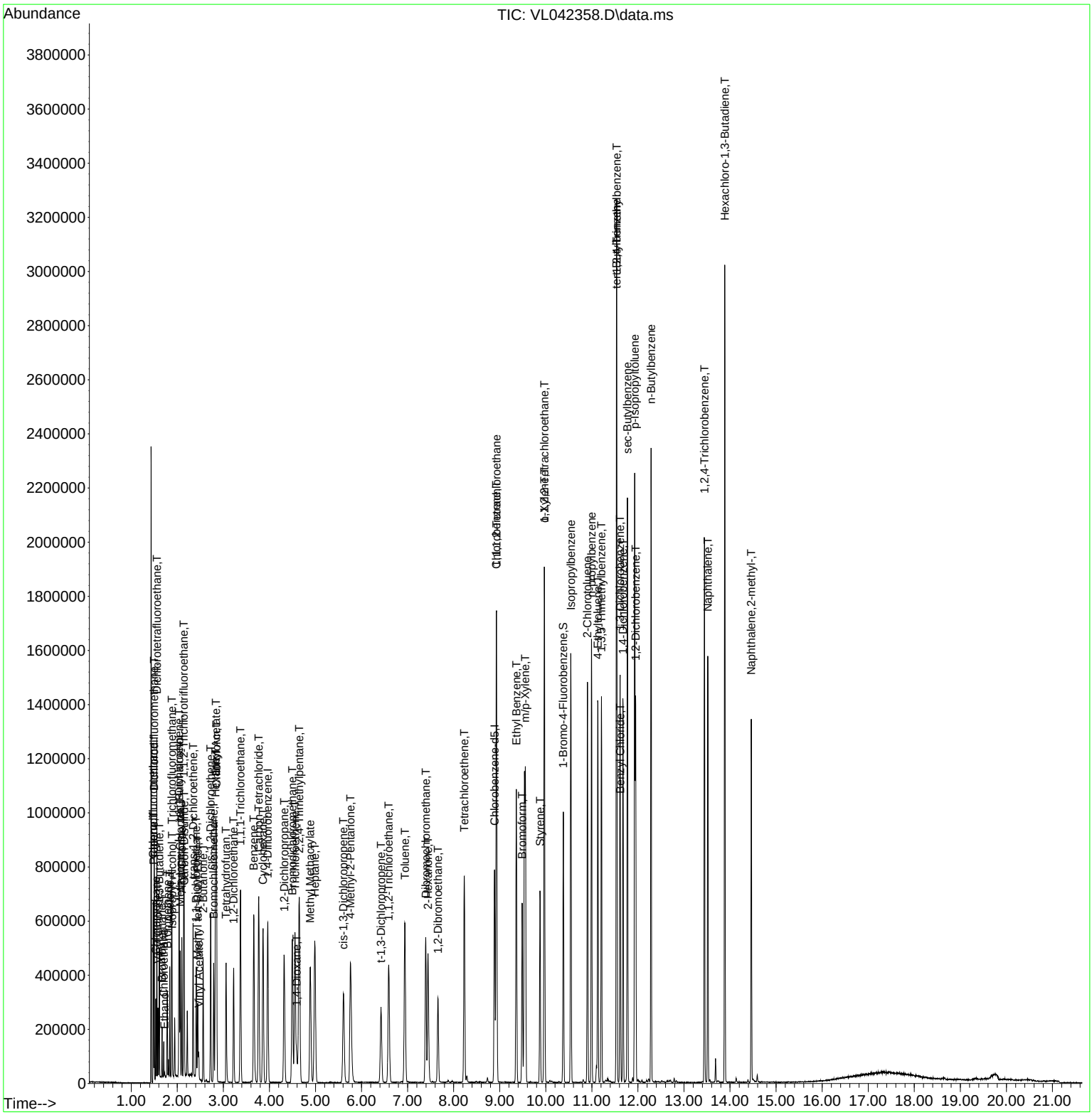
(#) = qualifier out of range (m) = manual integration (+) = signals summed

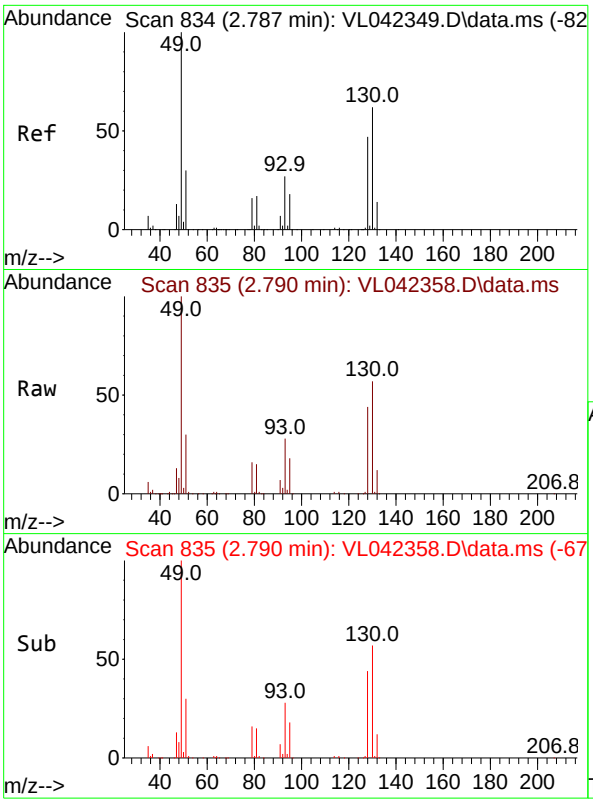
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042358.D
Acq On : 17 Apr 2025 15:39
Operator : SY/MD
Sample : VL0417ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

Quant Time: Apr 18 02:36:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration



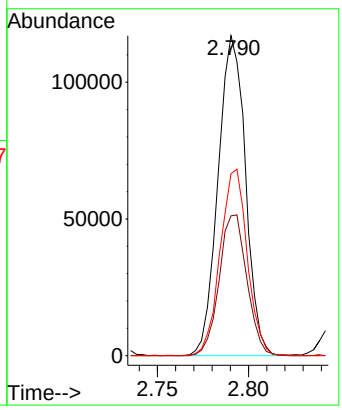


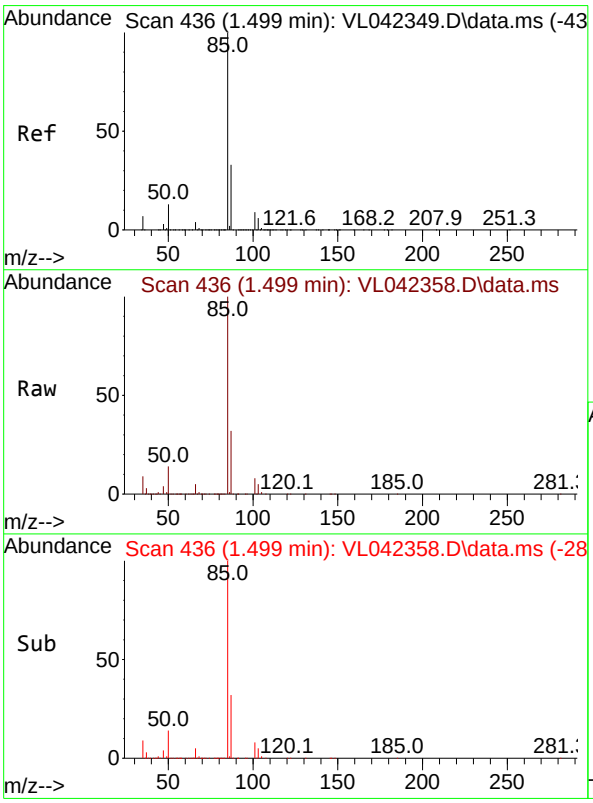

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

Tgt Ion: 49 Resp: 122375

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 44.5 | 22.8 | 68.4 |
| 130 | 57.6 | 29.3 | 88.0 |

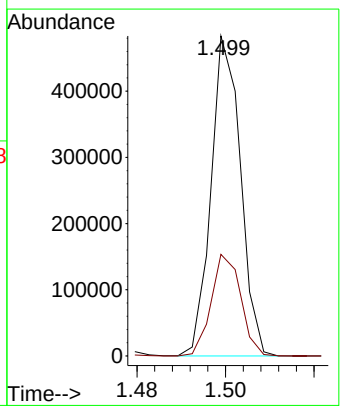


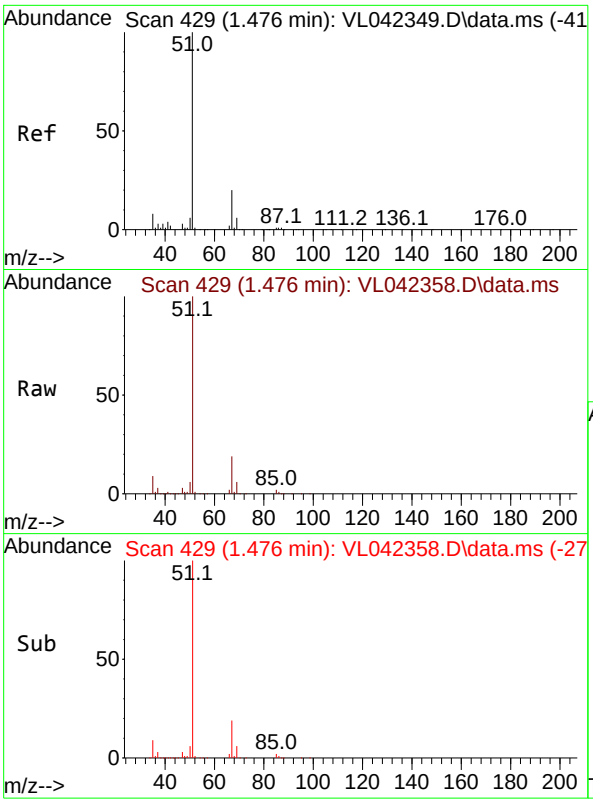




#2
Dichlorodifluoromethane
Concen: 10.337 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 85 Resp: 223505

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.7 | 26.6 | 39.8 |



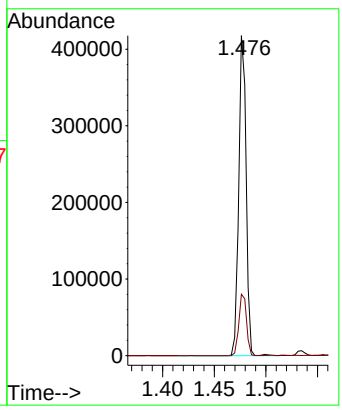


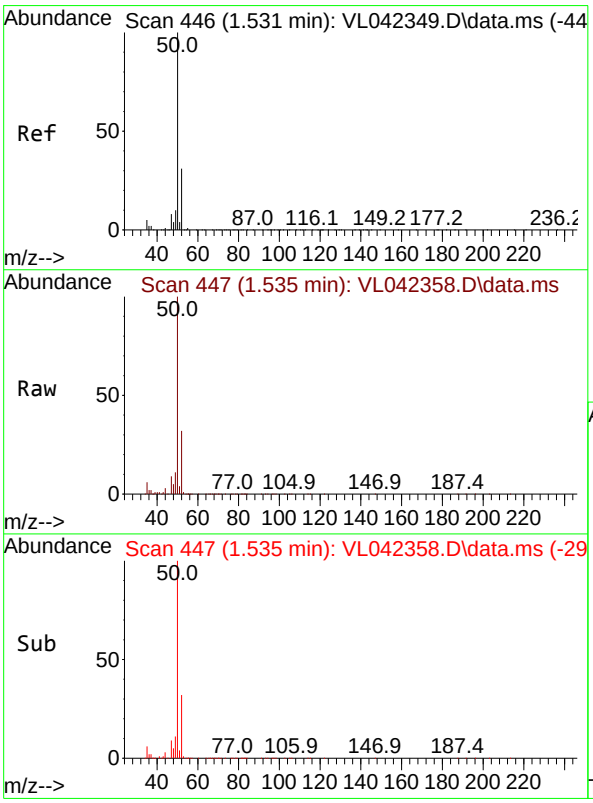

#3
Chlorodifluoromethane
Concen: 10.014 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

Tgt Ion: 51 Resp: 206172

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 20.2 | 16.2 | 24.4 |

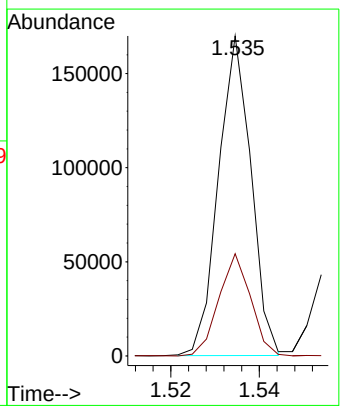


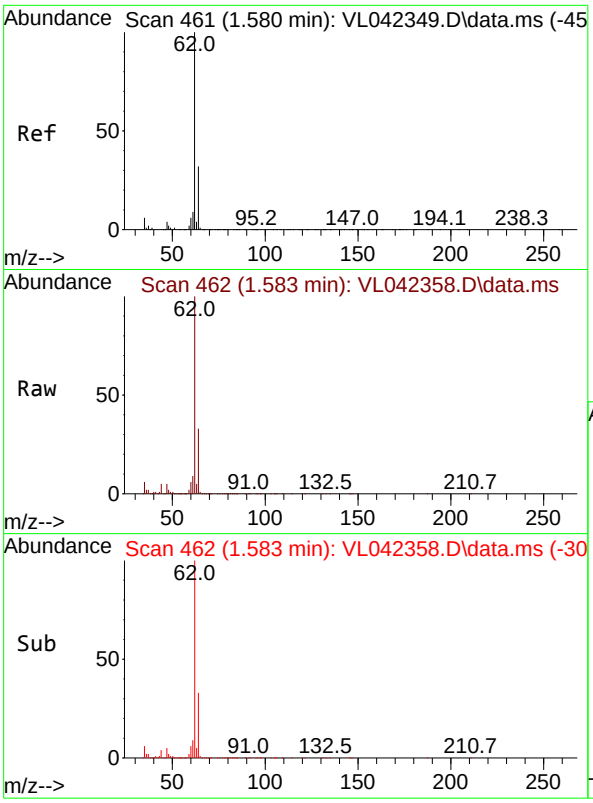




#4
Chloromethane
Concen: 10.130 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 50 Resp: 86675

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.1 | 24.7 | 37.1 |



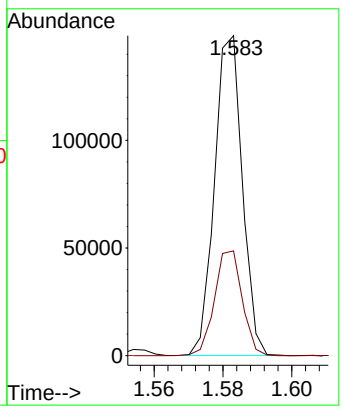


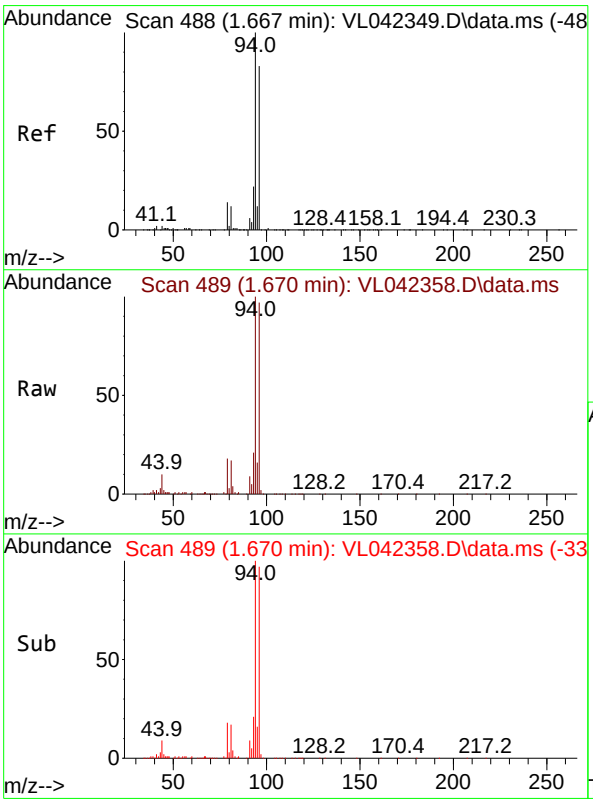

#5
Vinyl Chloride
Concen: 8.956 ppbv
RT: 1.583 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

Tgt Ion: 62 Resp: 83419

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.8 | 25.4 | 38.0 |

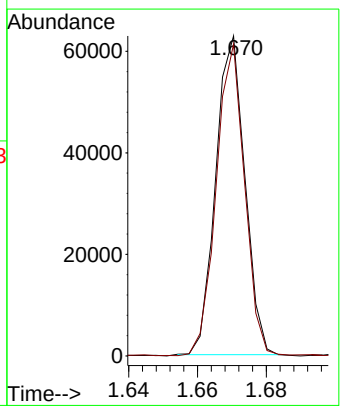


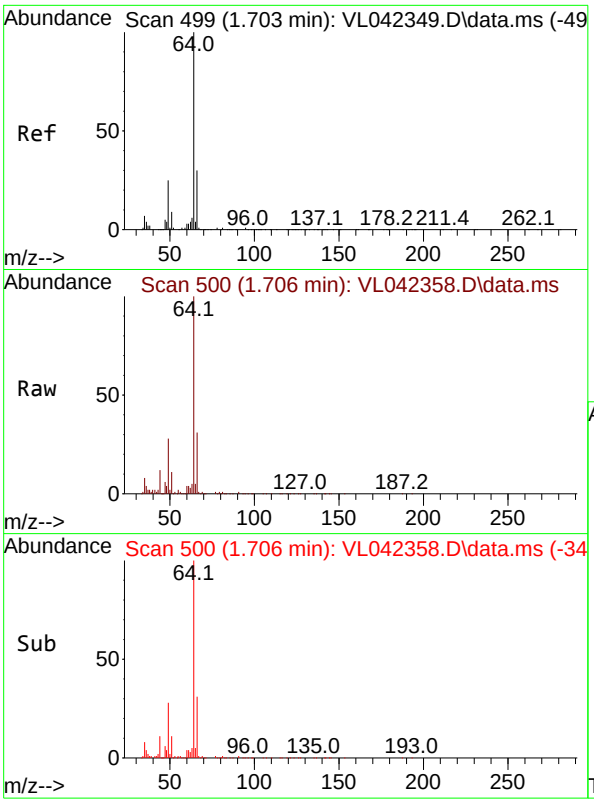




#6
Bromomethane
Concen: 9.235 ppbv
RT: 1.670 min Scan# 489
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 94 Resp: 36951

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 97.7 | 66.2 | 99.2 |



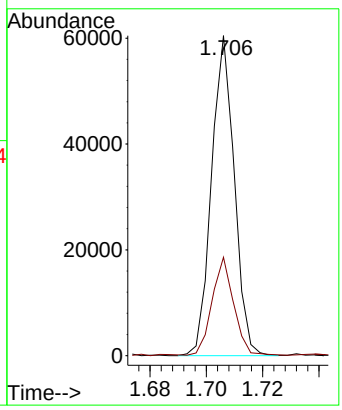


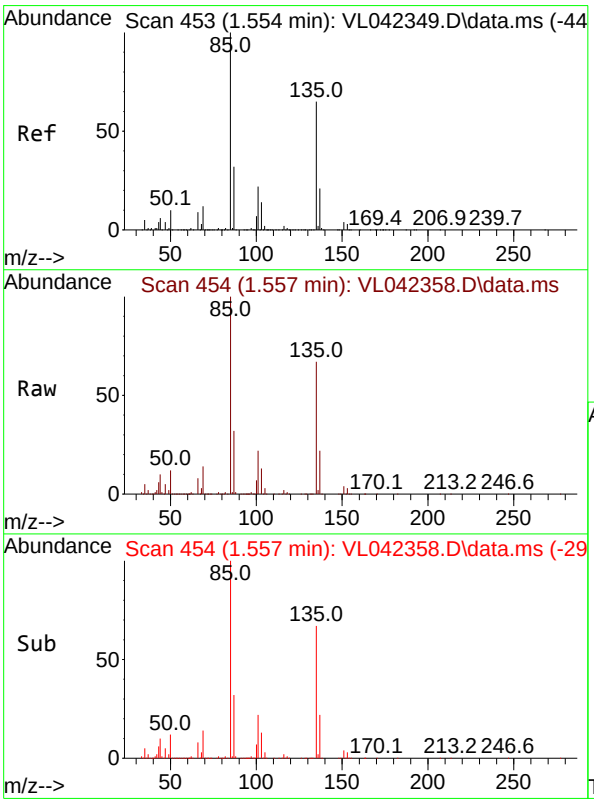

#7
Chloroethane
Concen: 10.075 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

Tgt Ion: 64 Resp: 33936

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 30.7 | 24.6 | 37.0 |

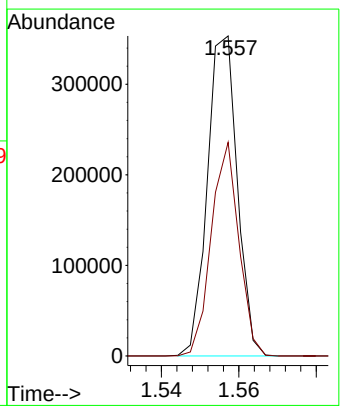


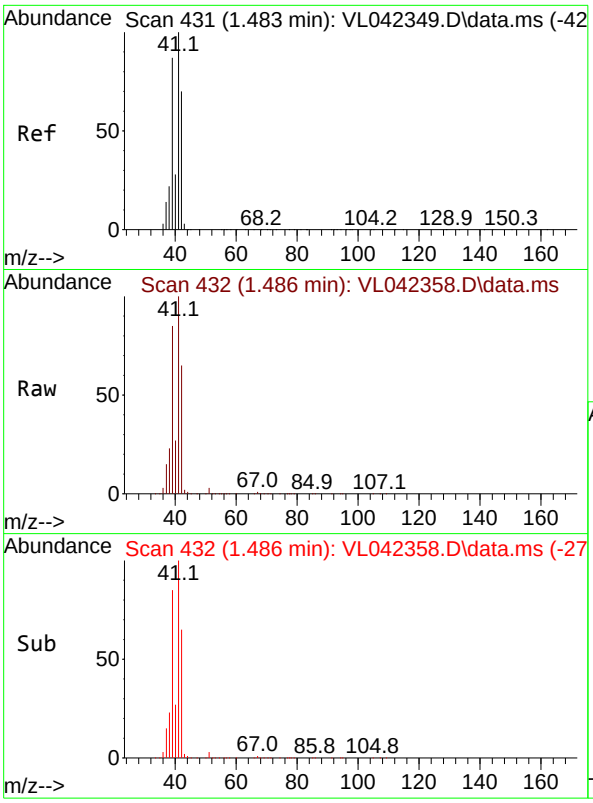




#8
Dichlorotetrafluoroethane
Concen: 10.231 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 85 Resp: 189924

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 61.4 | 52.2 | 78.2 |



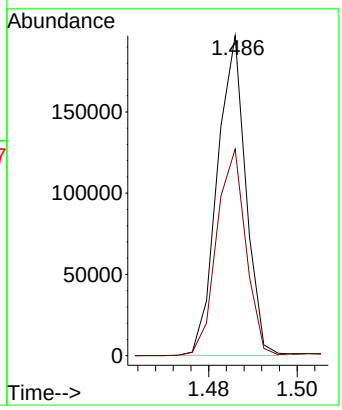


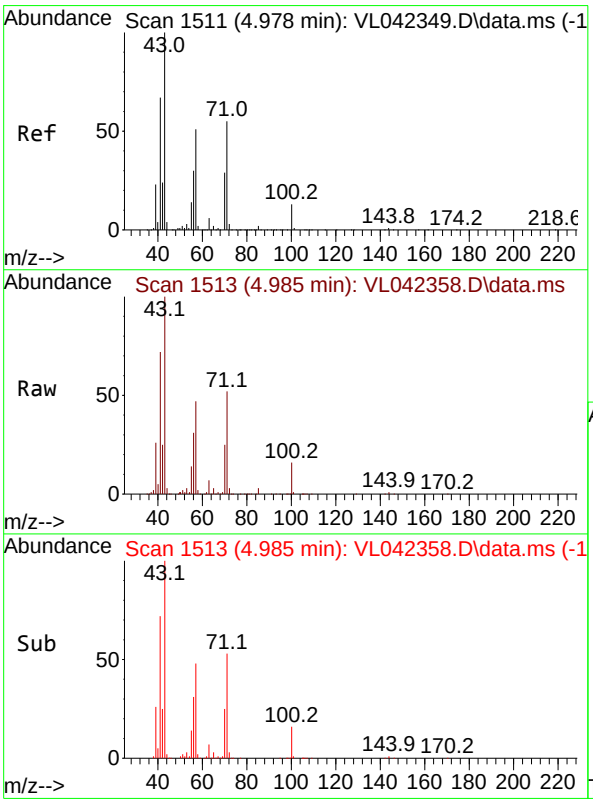

#9
Propene
Concen: 9.395 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

Tgt Ion: 41 Resp: 88088

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 68.4 | 56.2 | 84.4 |

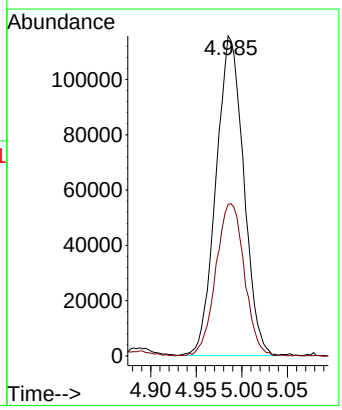


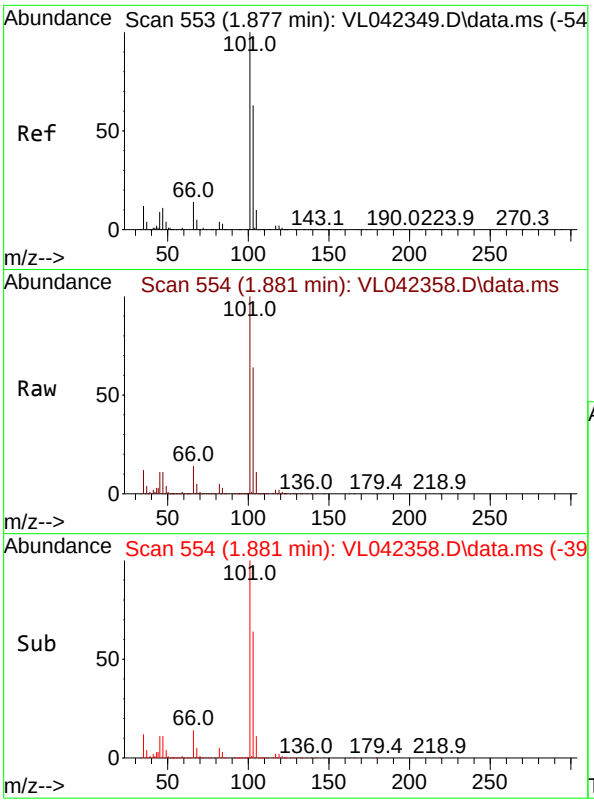




#10
Heptane
Concen: 9.244 ppbv
RT: 4.985 min Scan# 1513
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 43 Resp: 243501

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 49.4 | 39.9 | 59.9 |



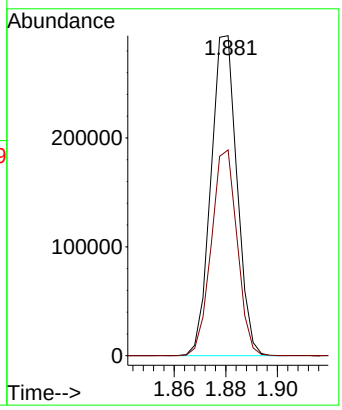


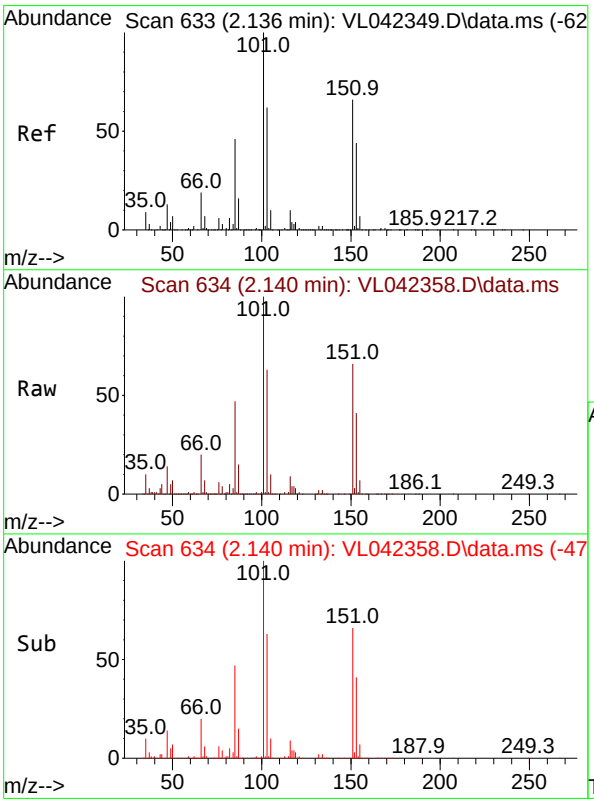

#11
Trichlorofluoromethane
Concen: 10.050 ppbv
RT: 1.881 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

Tgt Ion:101 Resp: 206645

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.3 | 50.1 | 75.1 |

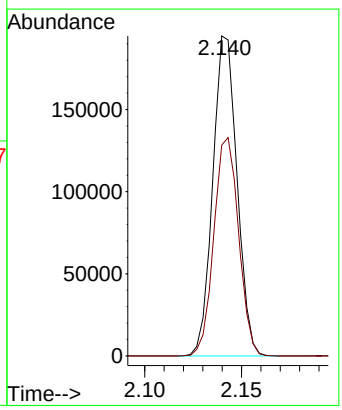


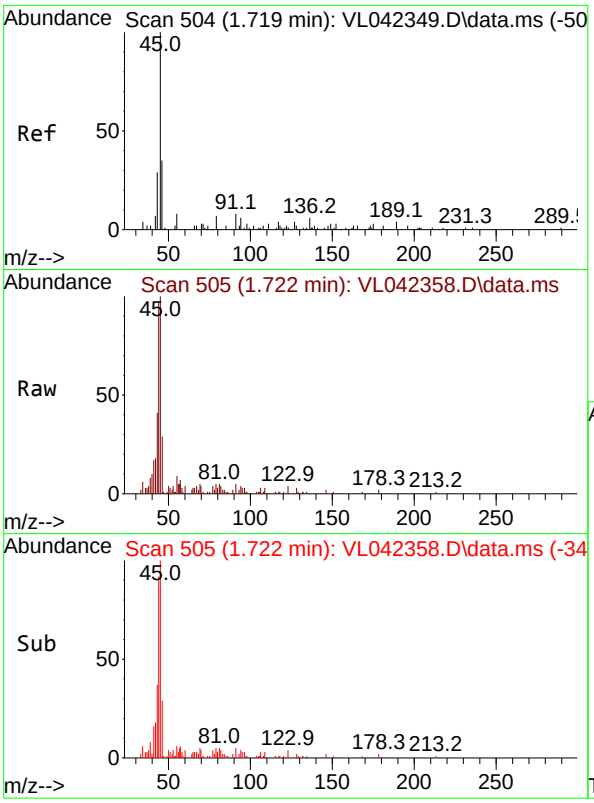




#12
1,1,2-Trichlorotrifluoroethane
Concen: 10.083 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:101 Resp: 169501

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 69.6 | 57.0 | 85.6 |



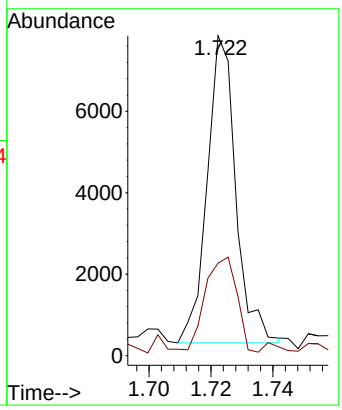


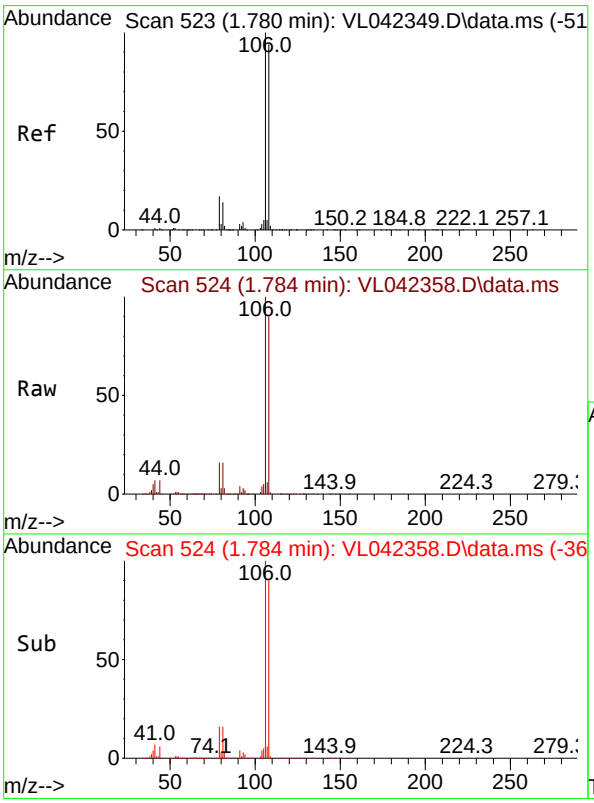

#13
Ethanol
Concen: 3.246 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

Tgt Ion: 45 Resp: 4837

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 45.8 | 21.9 | 87.7 |

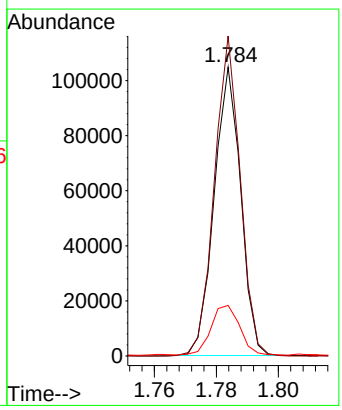


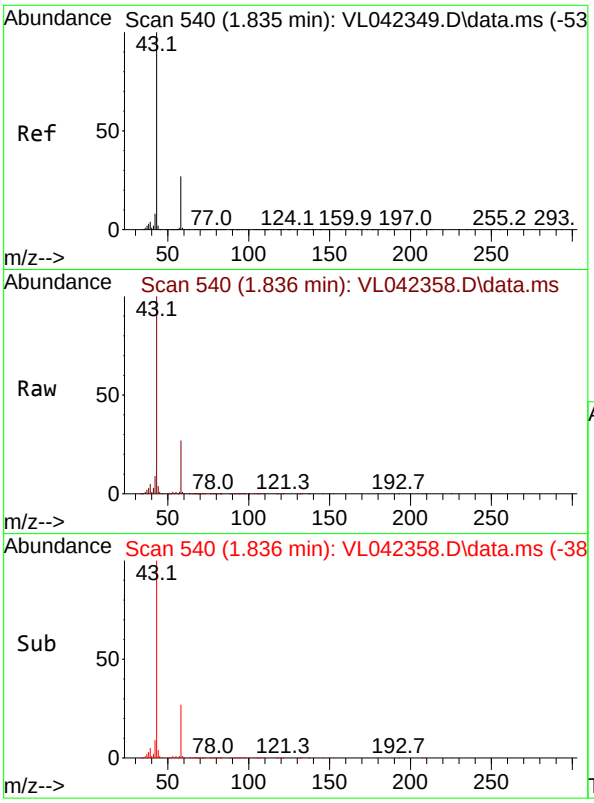




#14
Bromoethene
Concen: 9.818 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:108 Resp: 62214

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 106 | 108.2 | 85.9 | 128.9 |
| 79 | 20.6 | 13.9 | 20.9 |



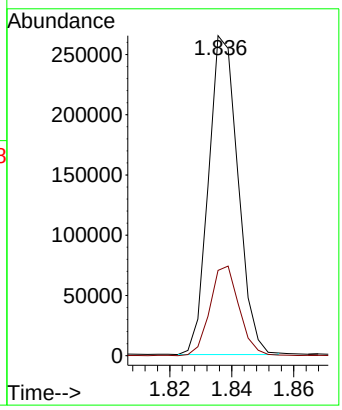


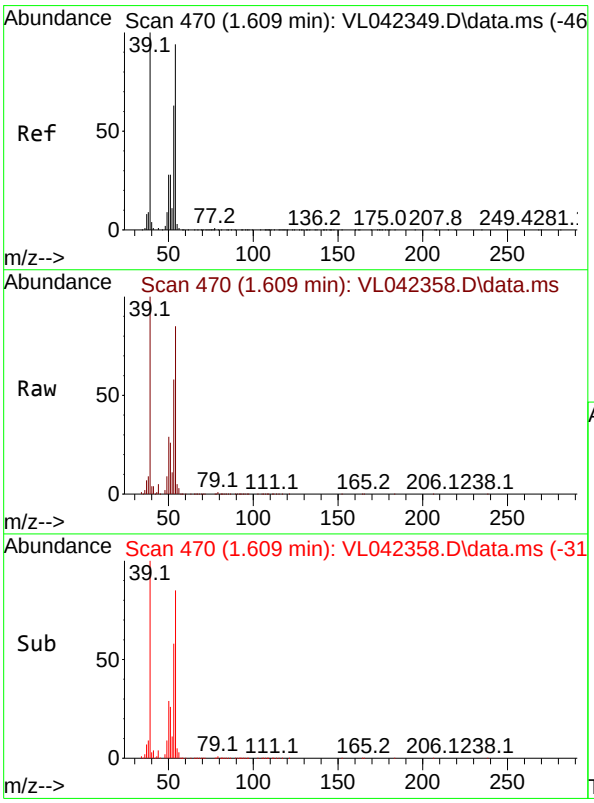

#15
Acetone
Concen: 8.743 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

Tgt Ion: 43 Resp: 175153

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 27.9 | 22.4 | 33.6 |

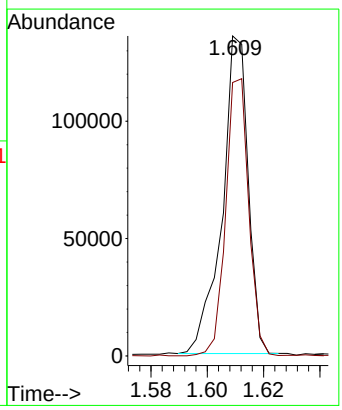


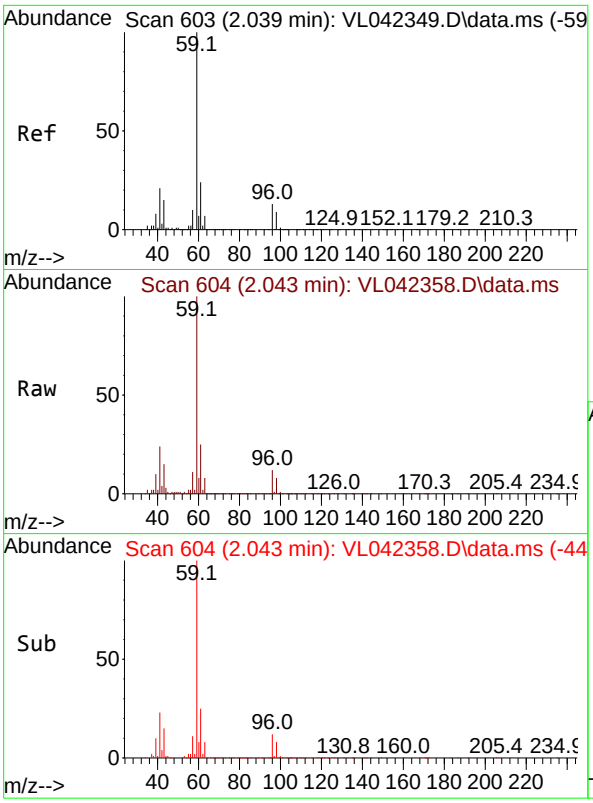




#16
1,3-Butadiene
Concen: 9.076 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 39 Resp: 86965

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 77.9 | 64.9 | 97.3 |



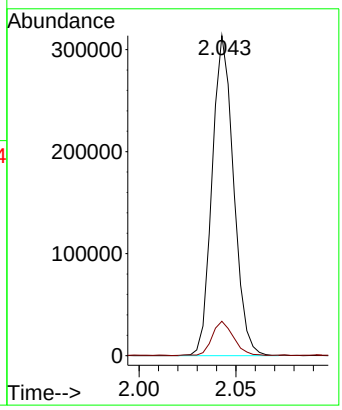


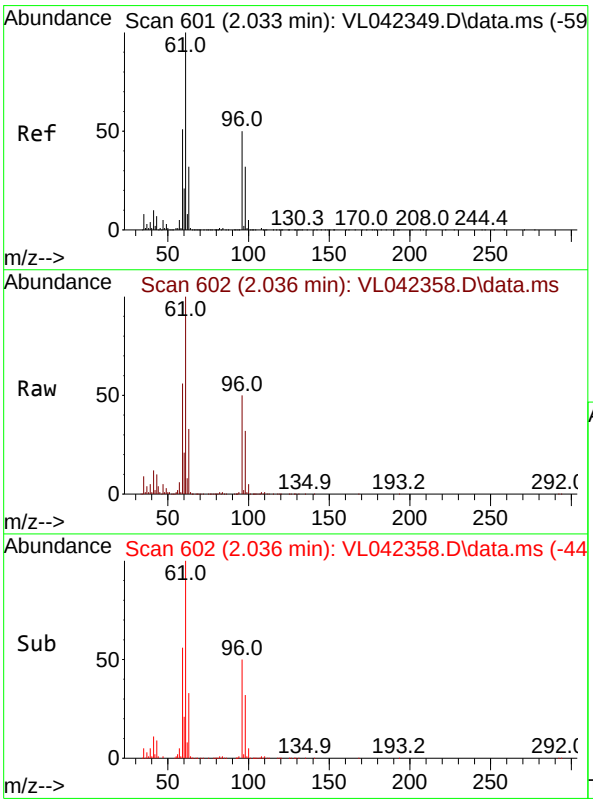

#17
tert-Butyl alcohol
Concen: 9.754 ppbv
RT: 2.043 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

Tgt Ion: 59 Resp: 242154

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.9 | 8.7 | 13.1 |

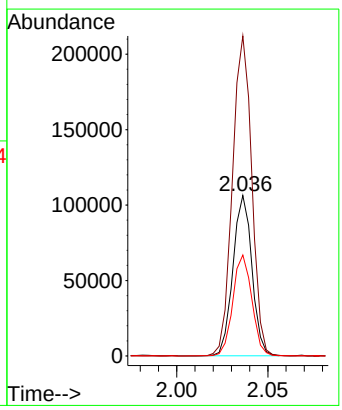


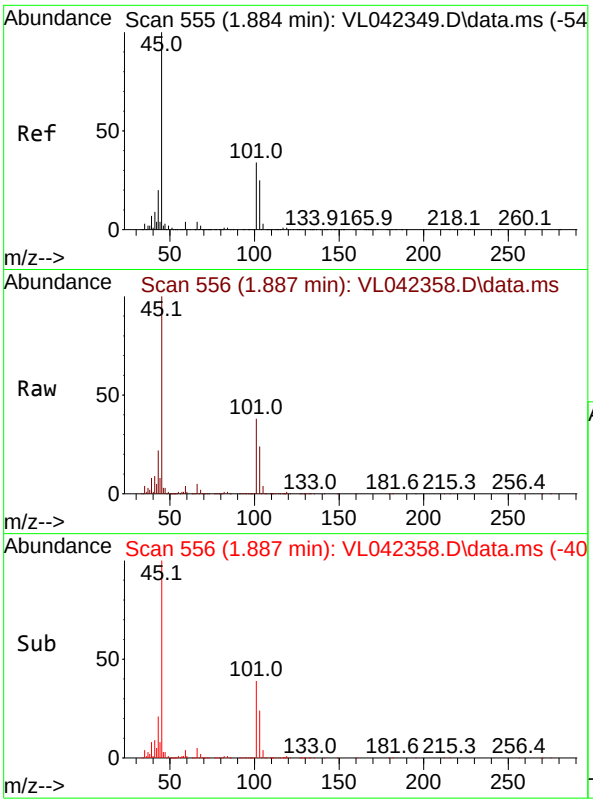




#18
1,1-Dichloroethene
Concen: 9.836 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 96 Resp: 77247

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 199.6 | 160.2 | 240.2 |
| 98 | 63.0 | 51.0 | 76.4 |



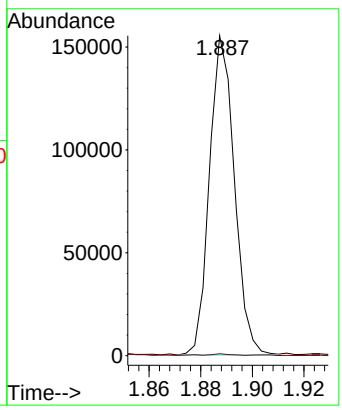


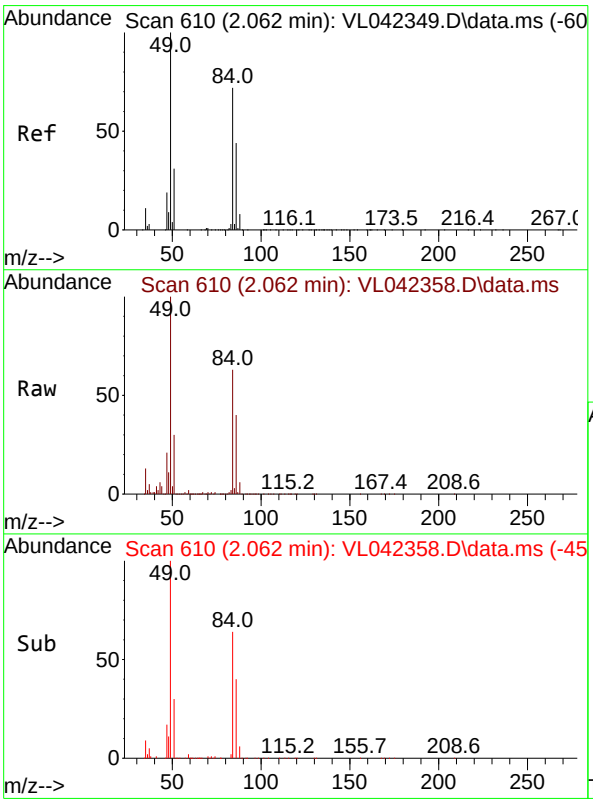

#19
Isopropyl Alcohol
Concen: 9.356 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

Tgt Ion: 45 Resp: 104123

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 46.9 | 34.5 | 51.7 |

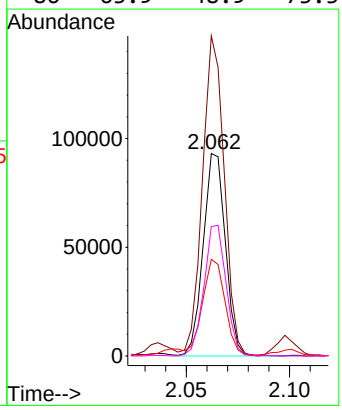


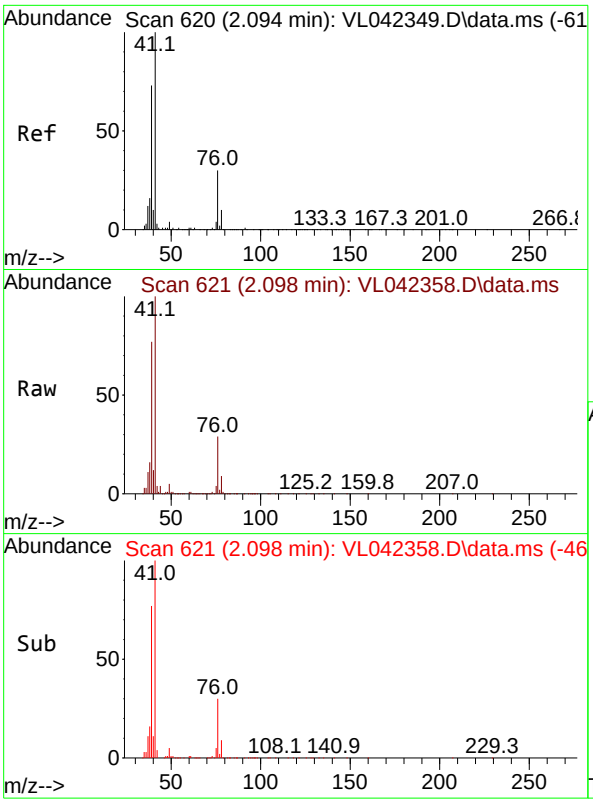




#20
Methylene Chloride
Concen: 8.865 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 84 Resp: 69548

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 156.3 | 111.6 | 167.4 |
| 51 | 45.9 | 35.1 | 52.7 |
| 86 | 63.9 | 48.9 | 73.3 |



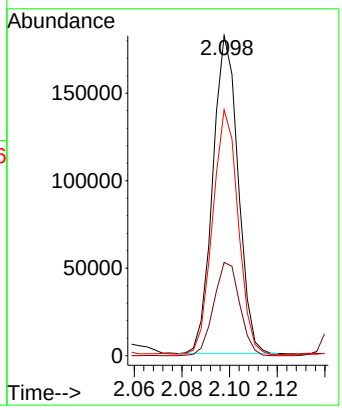


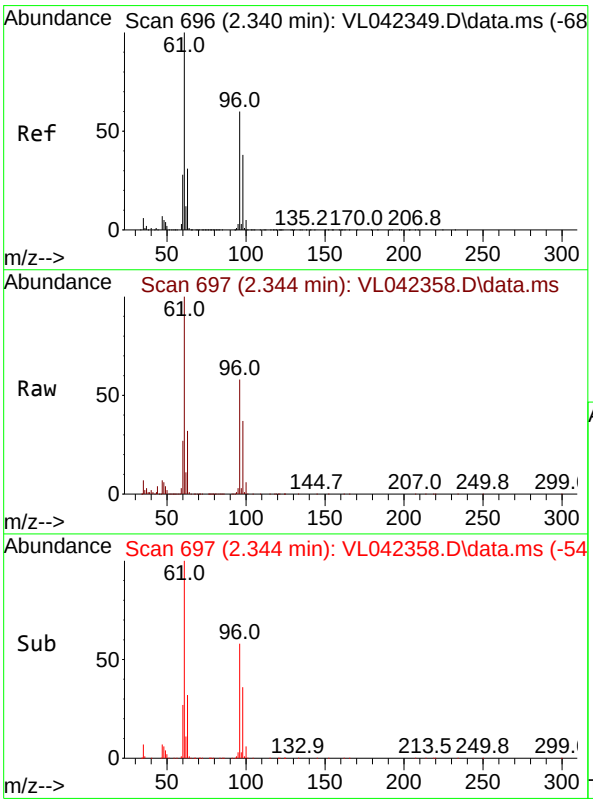

#21
Allyl Chloride
Concen: 9.704 ppbv
RT: 2.098 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

Tgt Ion: 41 Resp: 134221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 30.1 | 24.8 | 37.2 |
| 39 | 76.8 | 60.6 | 90.8 |

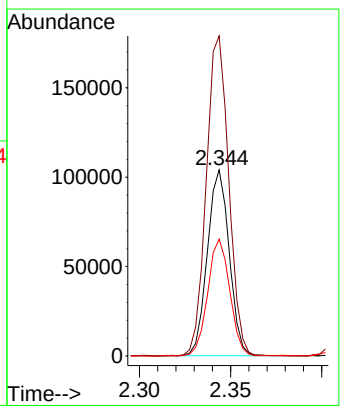


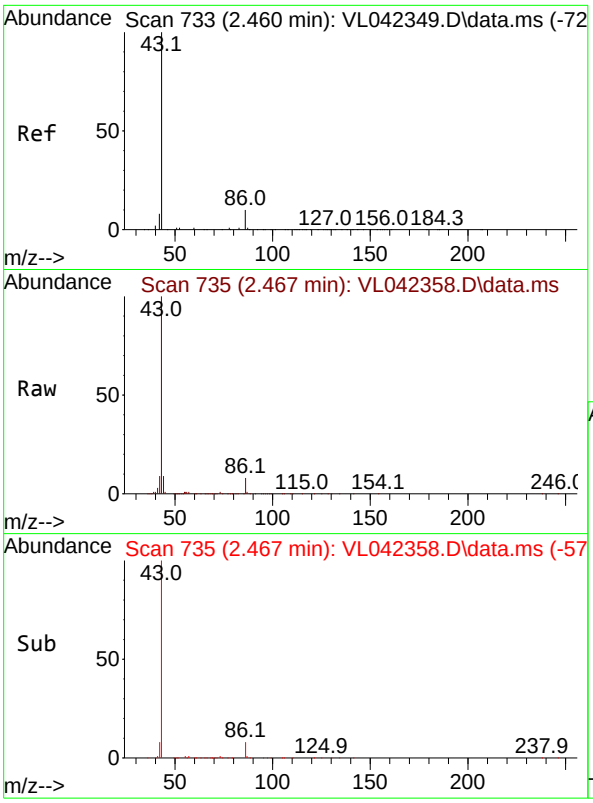




#22
trans-1,2-Dichloroethene
Concen: 9.653 ppbv
RT: 2.344 min Scan# 697
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 96 Resp: 86323

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 172.1 | 133.7 | 200.5 |
| 98 | 62.9 | 50.3 | 75.5 |



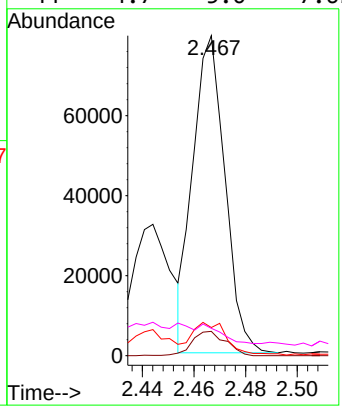


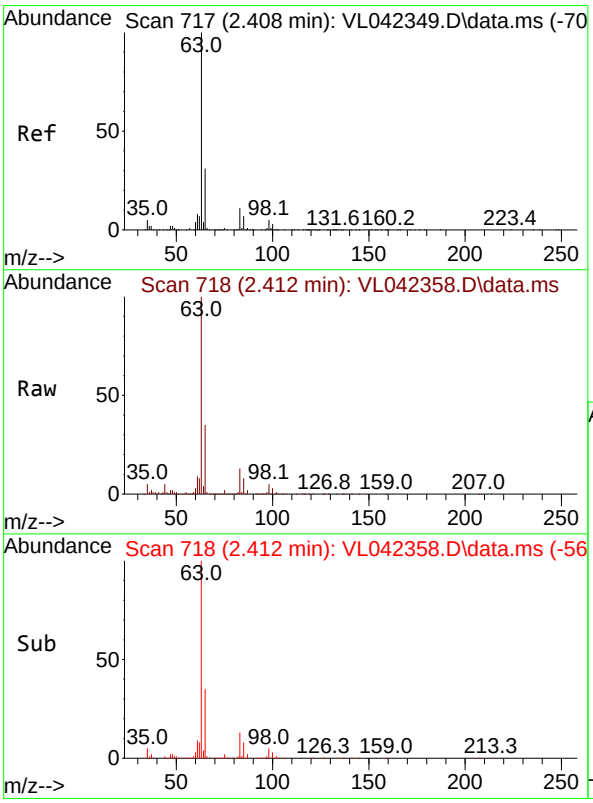

#23
Vinyl Acetate
Concen: 8.427 ppbv
RT: 2.467 min Scan# 7
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

Tgt Ion: 43 Resp: 68337

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 7.7 | 6.5 | 9.7 |
| 42 | 8.3 | 7.8 | 11.8 |
| 44 | 4.7 | 5.0 | 7.6# |

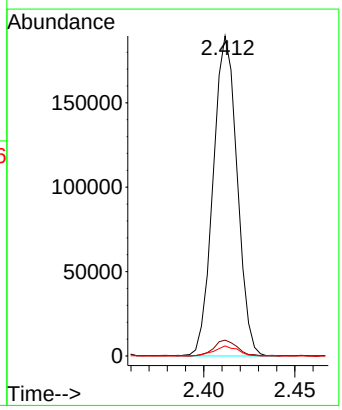


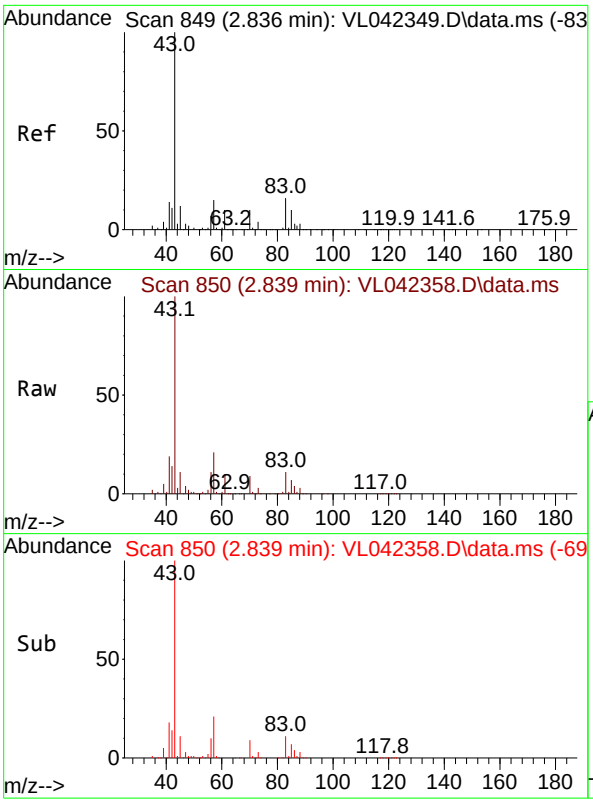




#24
1,1-Dichloroethane
Concen: 10.199 ppbv
RT: 2.412 min Scan# 718
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 63 Resp: 173238

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 4.9 | 2.3 | 6.8 |
| 100 | 3.1 | 1.6 | 4.8 |



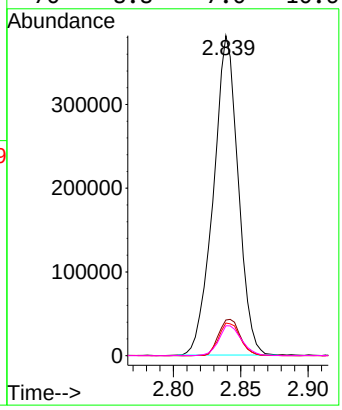


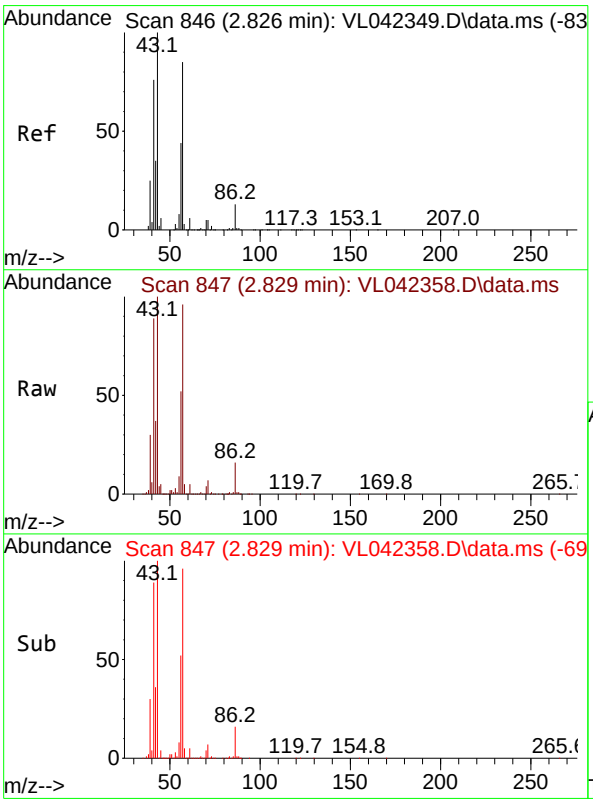

#25
Ethyl Acetate
Concen: 9.894 ppbv
RT: 2.839 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

Tgt Ion: 43 Resp: 488686

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 10.1 | 8.3 | 12.5 |
| 61 | 9.0 | 7.3 | 10.9 |
| 70 | 8.8 | 7.0 | 10.6 |

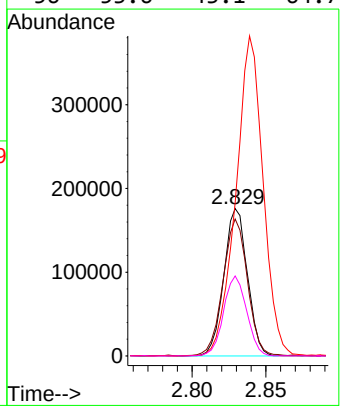


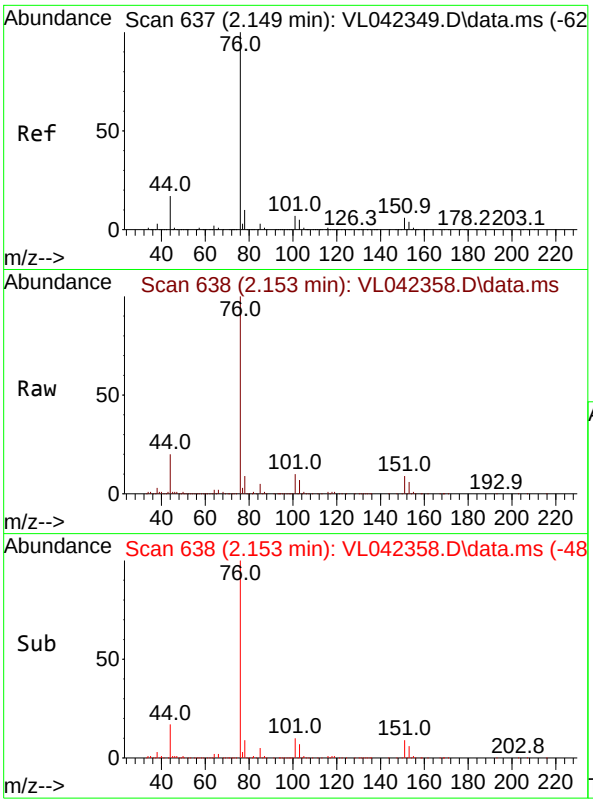




#26
Hexane
Concen: 9.761 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 57 Resp: 195124

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 96.9 | 77.9 | 116.9 |
| 43 | 251.9 | 208.4 | 312.6 |
| 56 | 53.6 | 43.1 | 64.7 |



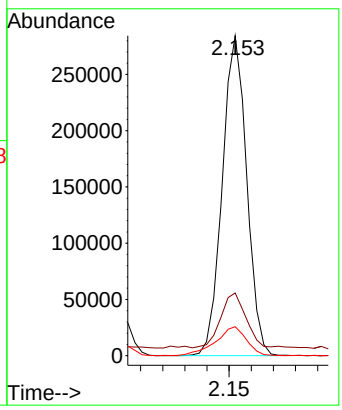


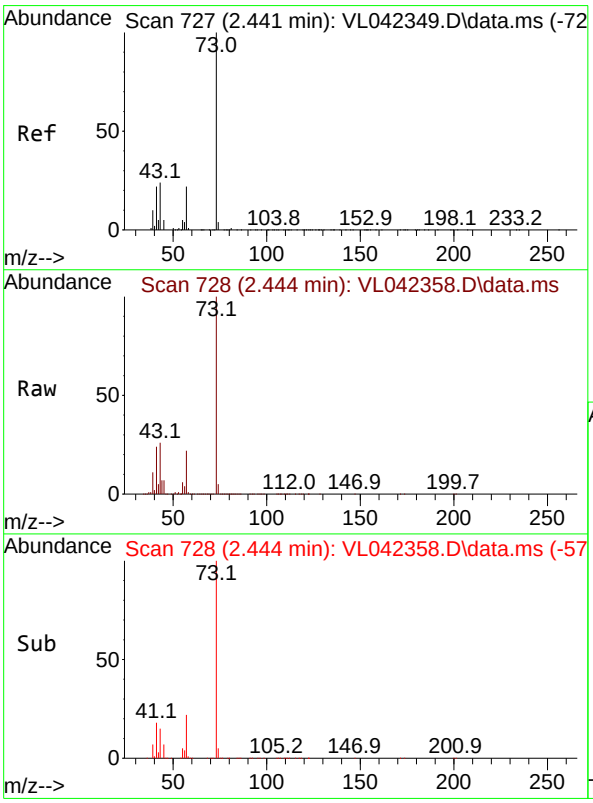

#27
Carbon Disulfide
Concen: 10.202 ppbv
RT: 2.153 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

Tgt Ion: 76 Resp: 218345

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 21.6 | 15.5 | 23.3 |
| 78 | 11.4 | 9.3 | 13.9 |

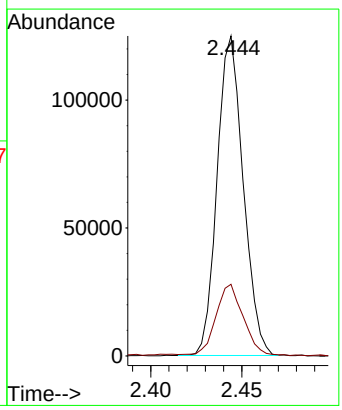


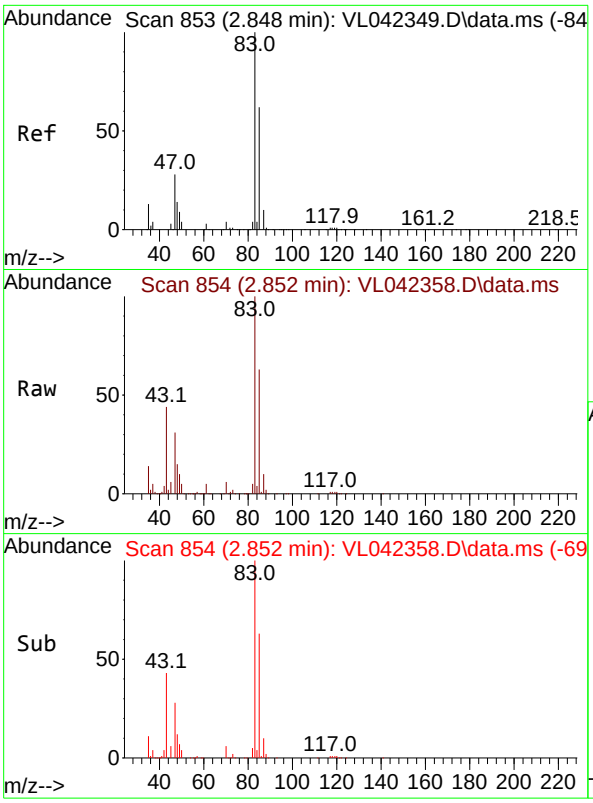




#28
Methyl tert-Butyl Ether
Concen: 9.510 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 73 Resp: 124554

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 24.5 | 21.3 | 31.9 |



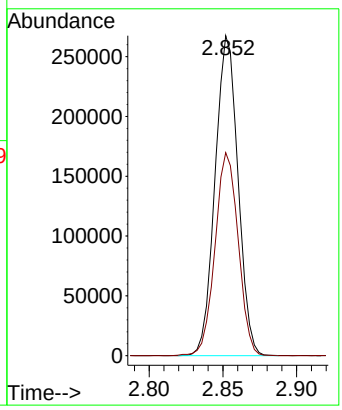


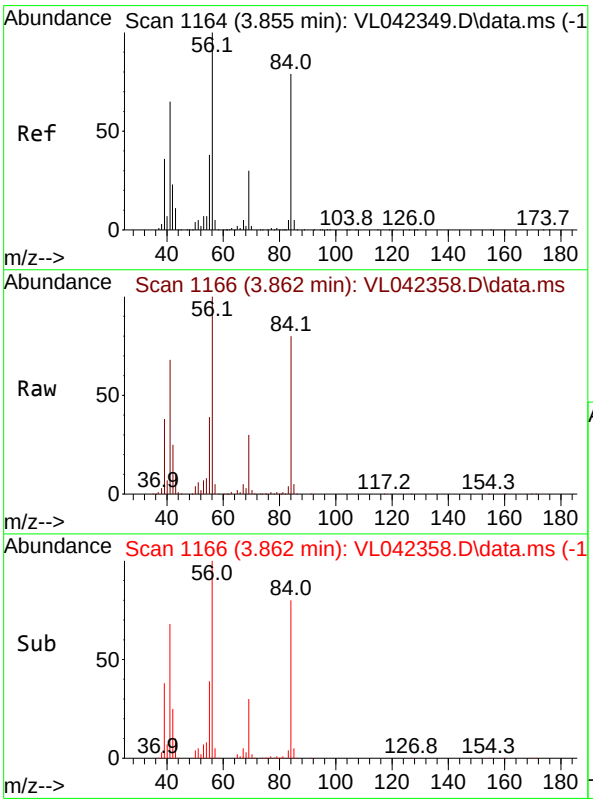

#29
Chloroform
Concen: 10.239 ppbv
RT: 2.852 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

Tgt Ion: 83 Resp: 289294

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.4 | 50.0 | 75.0 |

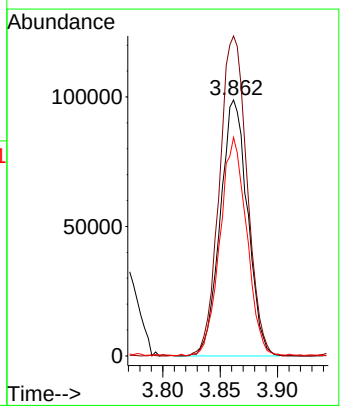


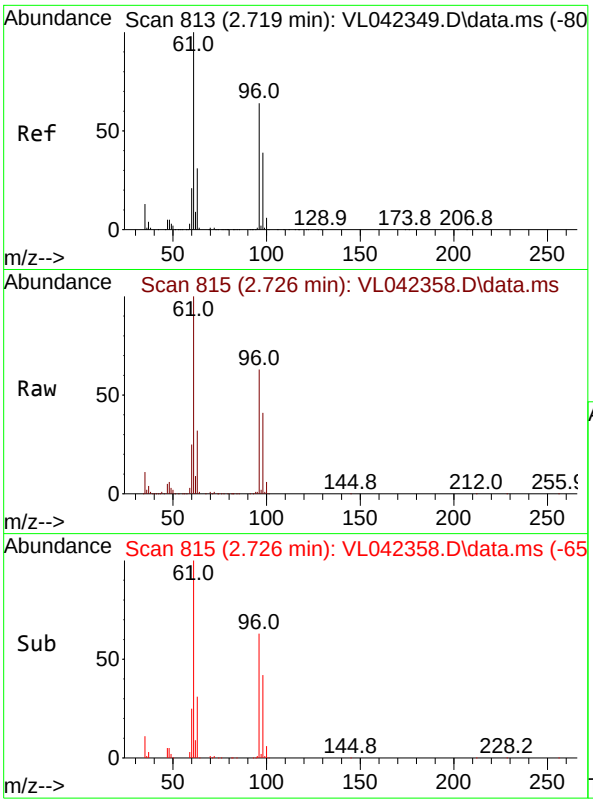




#30
Cyclohexane
Concen: 10.088 ppbv
RT: 3.862 min Scan# 1166
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 84 Resp: 163017

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 126.7 | 101.0 | 151.4 |
| 41 | 83.8 | 67.4 | 101.0 |



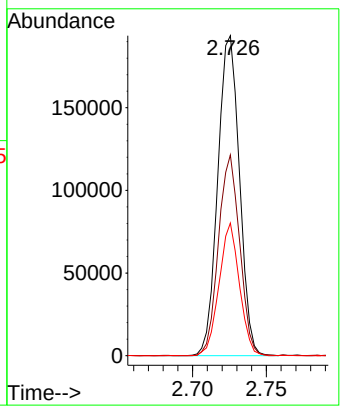


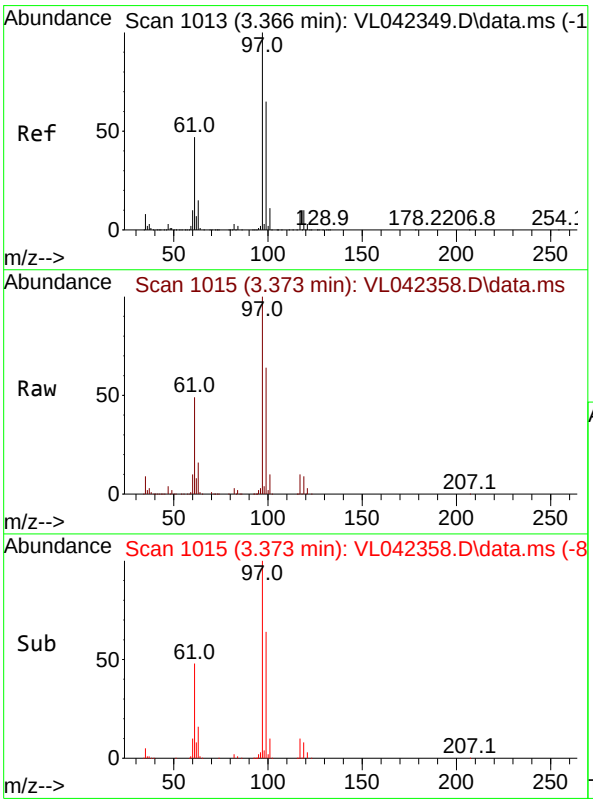

#31
cis-1,2-Dichloroethene
Concen: 10.424 ppbv
RT: 2.726 min Scan# 8
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

Tgt Ion: 61 Resp: 198108

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 62.8 | 50.8 | 76.2 |
| 98 | 41.4 | 30.9 | 46.3 |

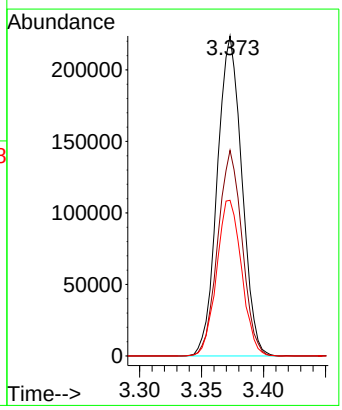


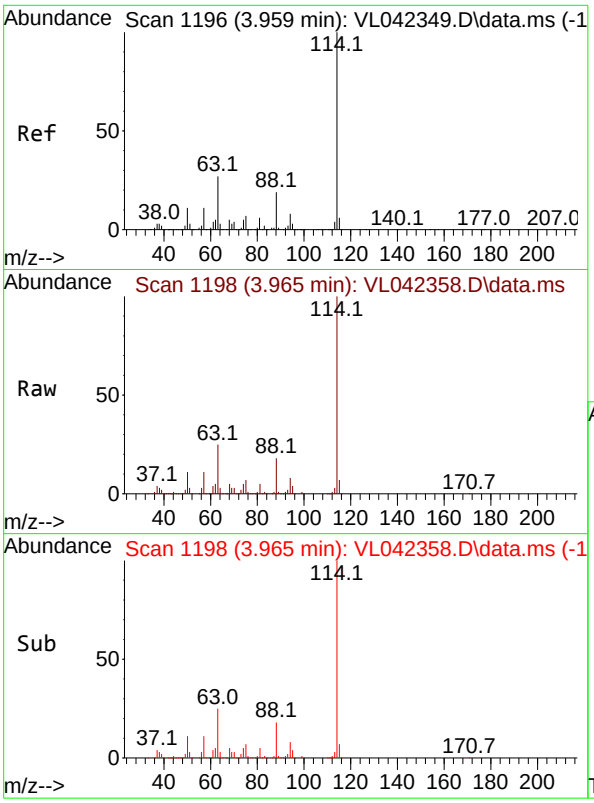




#32
1,1,1-Trichloroethane
Concen: 9.729 ppbv
RT: 3.373 min Scan# 1015
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 97 Resp: 309460

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.7 | 51.0 | 76.4 |
| 61 | 49.5 | 38.8 | 58.2 |



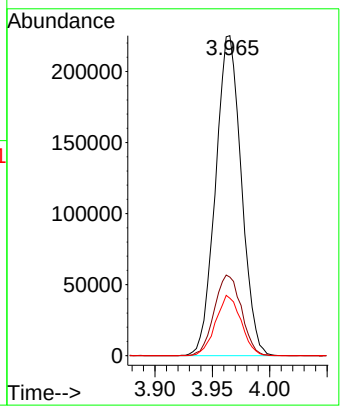


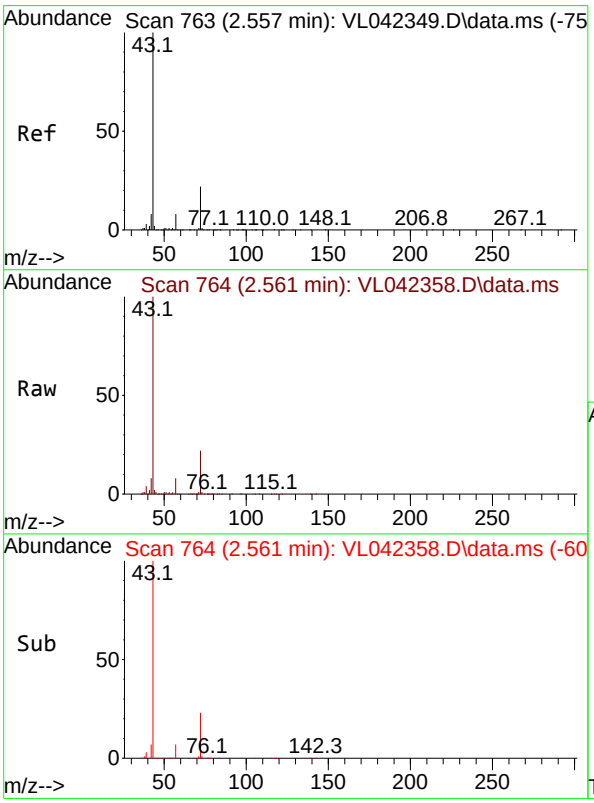

#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 11
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

Tgt Ion:114 Resp: 352201

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 26.4 | 21.8 | 32.6 |
| 88 | 18.6 | 15.5 | 23.3 |

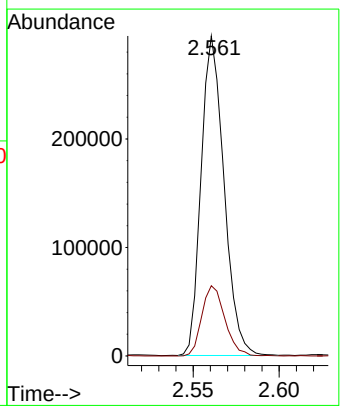


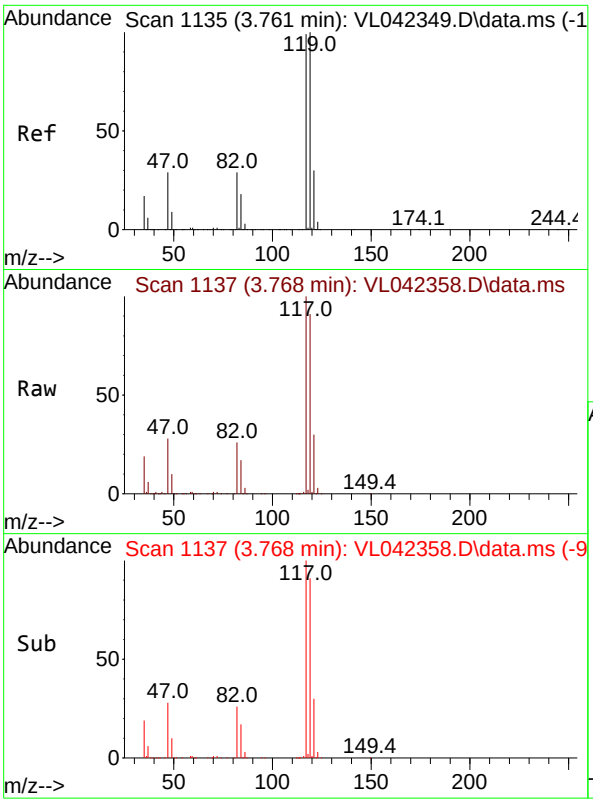




#34
2-Butanone
Concen: 9.787 ppbv
RT: 2.561 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 43 Resp: 272600

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 22.2 | 18.2 | 27.2 |



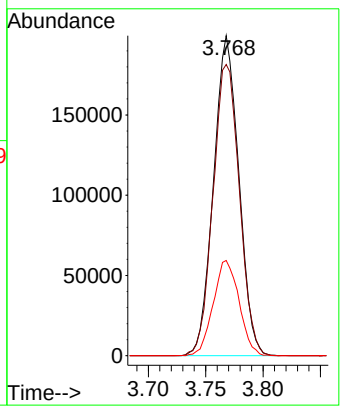


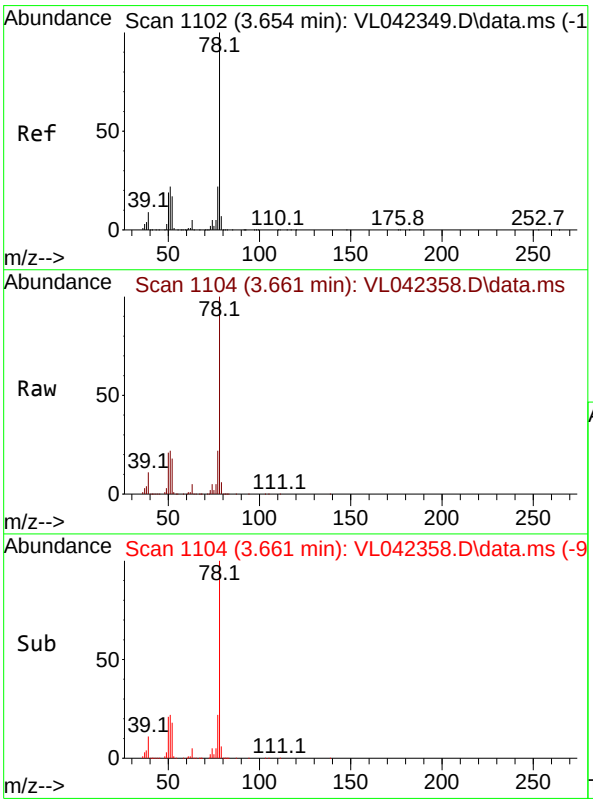

#35
Carbon Tetrachloride
Concen: 9.576 ppbv
RT: 3.768 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

Tgt Ion:117 Resp: 305245

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 91.0 | 80.5 | 120.7 |
| 121 | 29.8 | 24.2 | 36.2 |

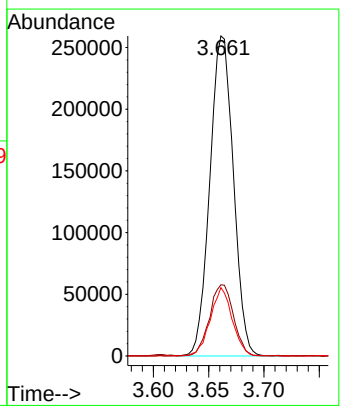


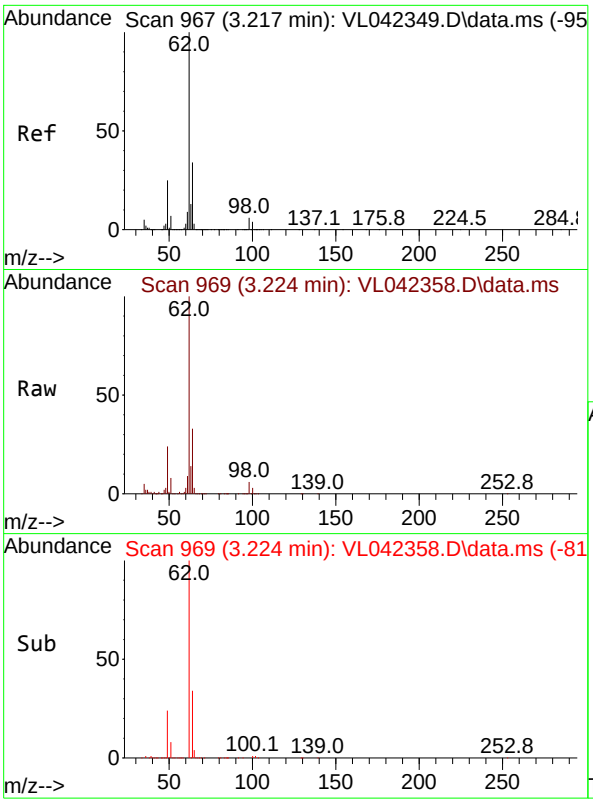




#36
Benzene
Concen: 10.088 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 78 Resp: 383239

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 22.1 | 17.4 | 26.0 |
| 50 | 21.3 | 15.5 | 23.3 |



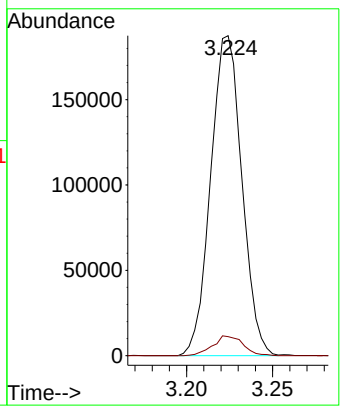


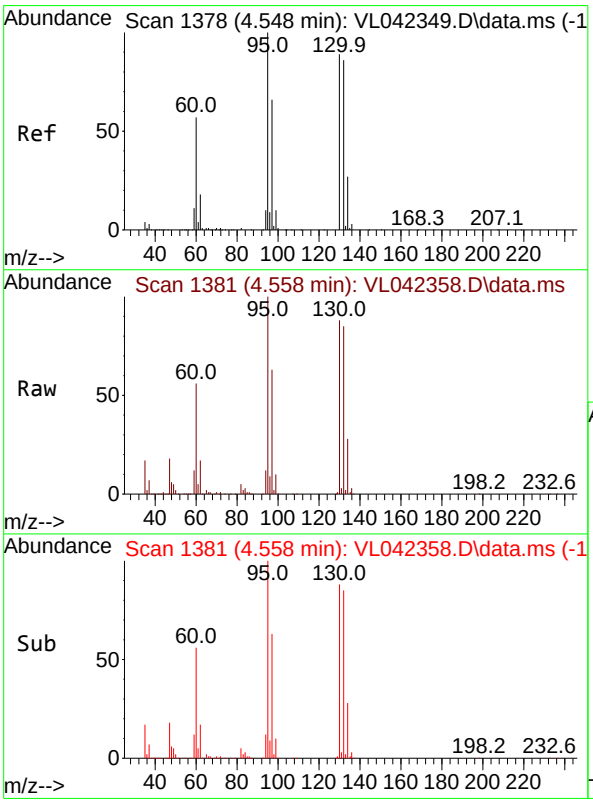

#37
1,2-Dichloroethane
Concen: 10.377 ppbv
RT: 3.224 min Scan# 9
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

Tgt Ion: 62 Resp: 236611

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 6.0 | 5.1 | 7.7 |

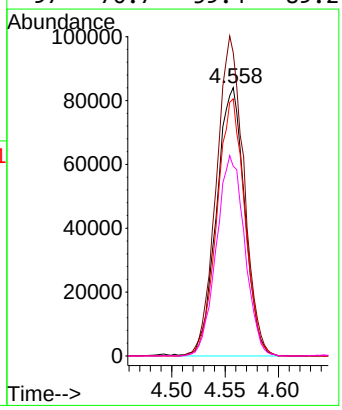


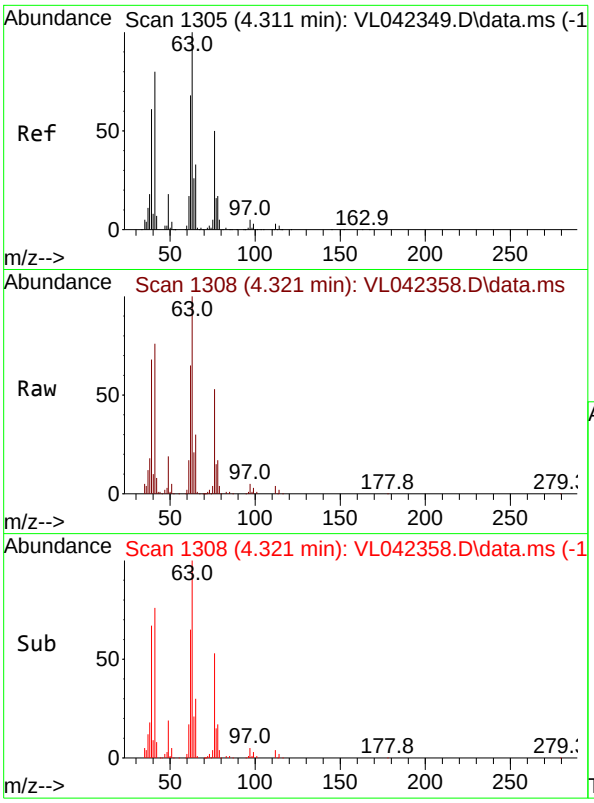




#38
Trichloroethene
Concen: 9.251 ppbv
RT: 4.558 min Scan# 1381
Delta R.T. 0.010 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:130 Resp: 153596

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 113.0 | 89.8 | 134.6 |
| 132 | 95.8 | 77.7 | 116.5 |
| 97 | 70.7 | 59.4 | 89.2 |



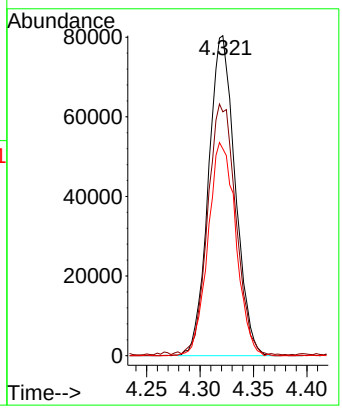


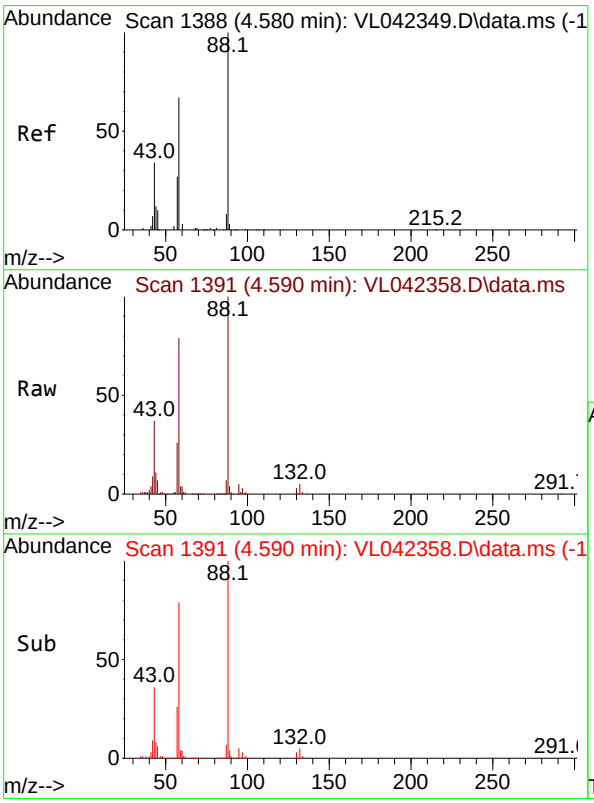

#39
1,2-Dichloropropane
Concen: 9.866 ppbv
RT: 4.321 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

Tgt Ion: 63 Resp: 139669

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 75.7 | 64.2 | 96.2 |
| 62 | 64.6 | 54.3 | 81.5 |

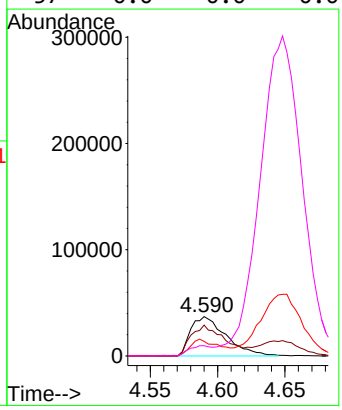


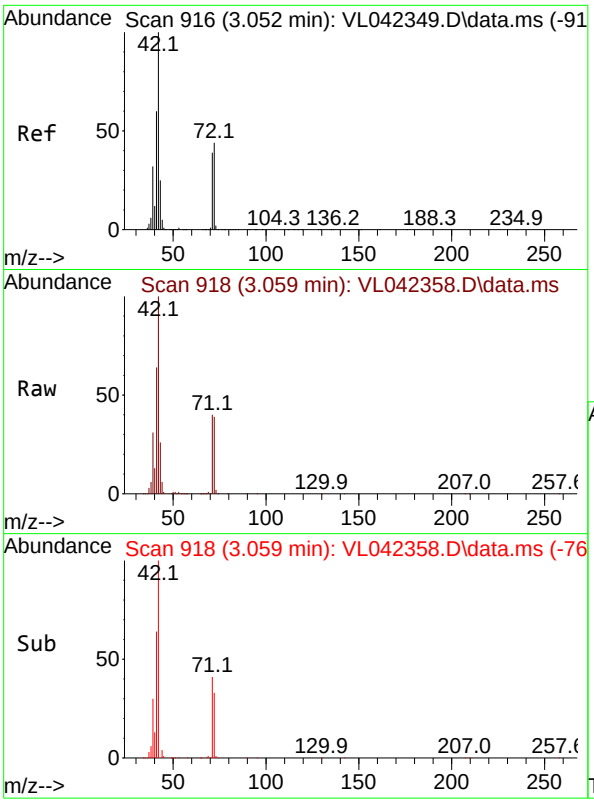




#40
1,4-Dioxane
Concen: 8.716 ppbv
RT: 4.590 min Scan# 1391
Delta R.T. 0.010 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 88 Resp: 67808

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 75.4 | 61.4 | 92.0 |
| 43 | 37.1 | 23.2 | 34.8# |
| 57 | 0.0 | 0.0 | 0.0 |



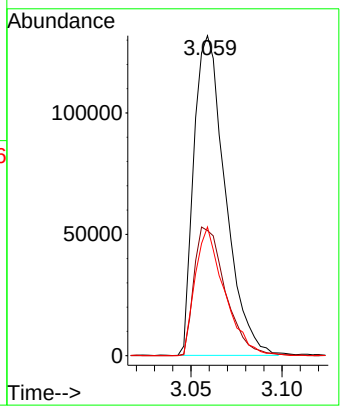


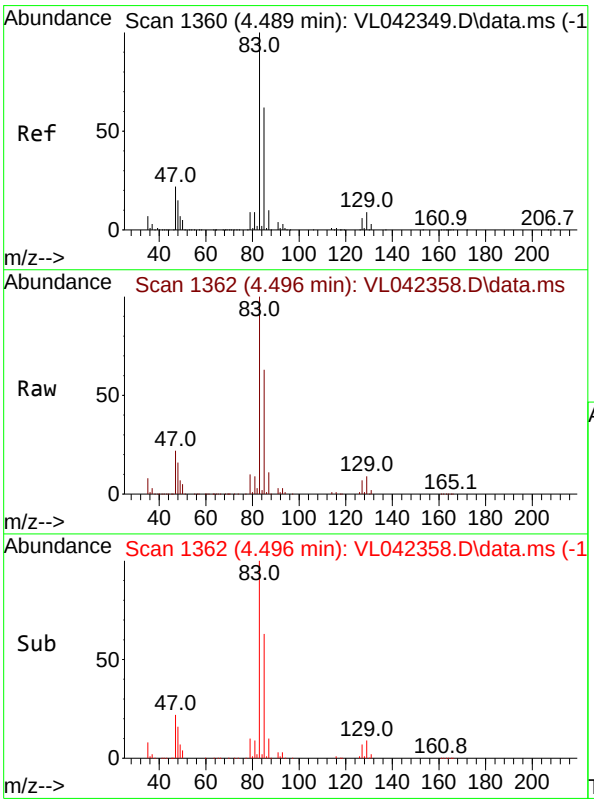

#41
Tetrahydrofuran
Concen: 9.715 ppbv
RT: 3.059 min Scan# 91
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

Tgt Ion: 42 Resp: 157777

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 40.3 | 32.3 | 48.5 |
| 71 | 37.7 | 31.4 | 47.2 |

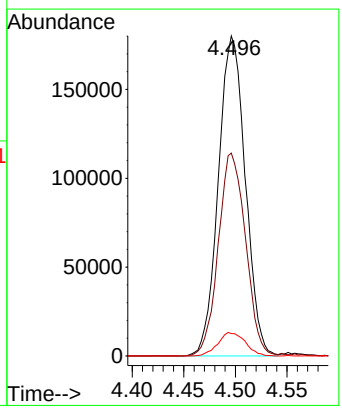


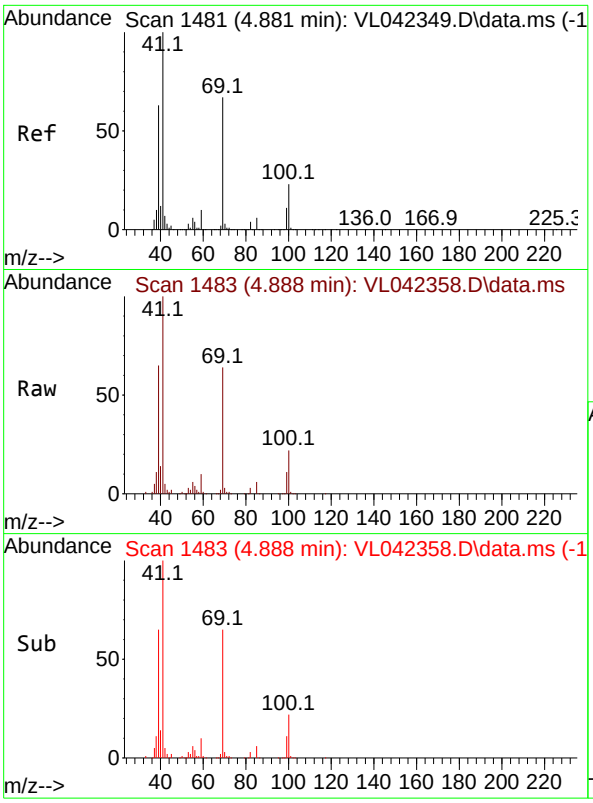




#42
Bromodichloromethane
Concen: 10.326 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 83 Resp: 327652

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.3 | 49.7 | 74.5 |
| 127 | 7.0 | 5.1 | 7.7 |



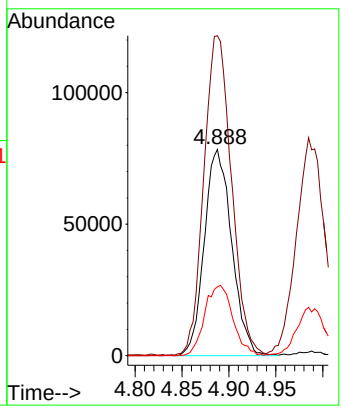


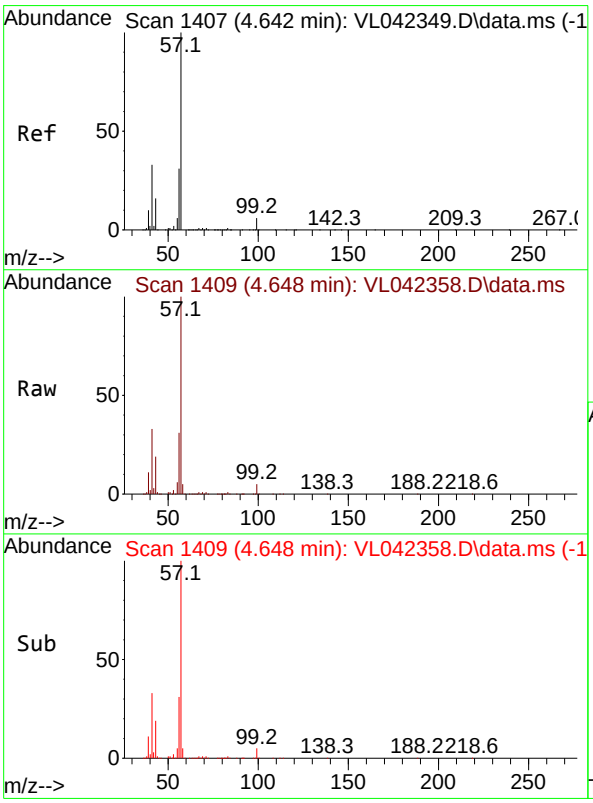

#43
Methyl Methacrylate
Concen: 9.304 ppbv
RT: 4.888 min Scan# 14
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

Tgt Ion: 69 Resp: 159292

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 155.9 | 118.6 | 177.8 |
| 100 | 35.1 | 28.2 | 42.2 |

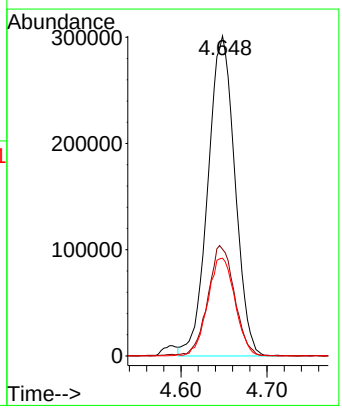


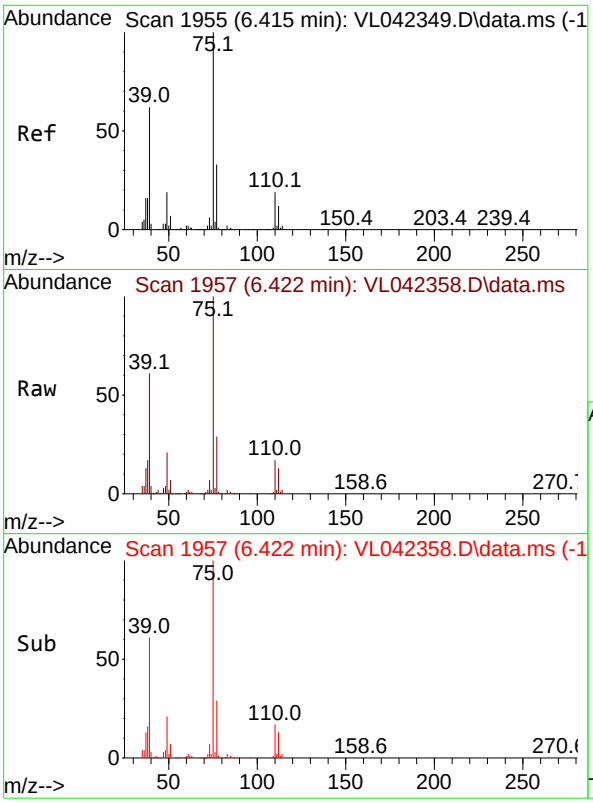




#44
2,2,4-Trimethylpentane
Concen: 10.019 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 57 Resp: 657377

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 34.2 | 27.2 | 40.8 |
| 56 | 31.1 | 25.7 | 38.5 |



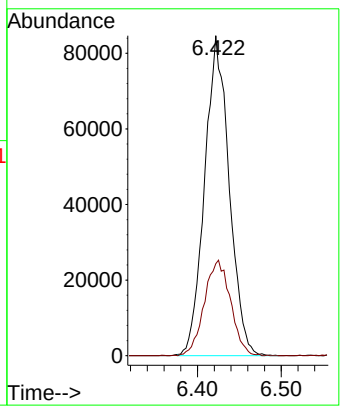


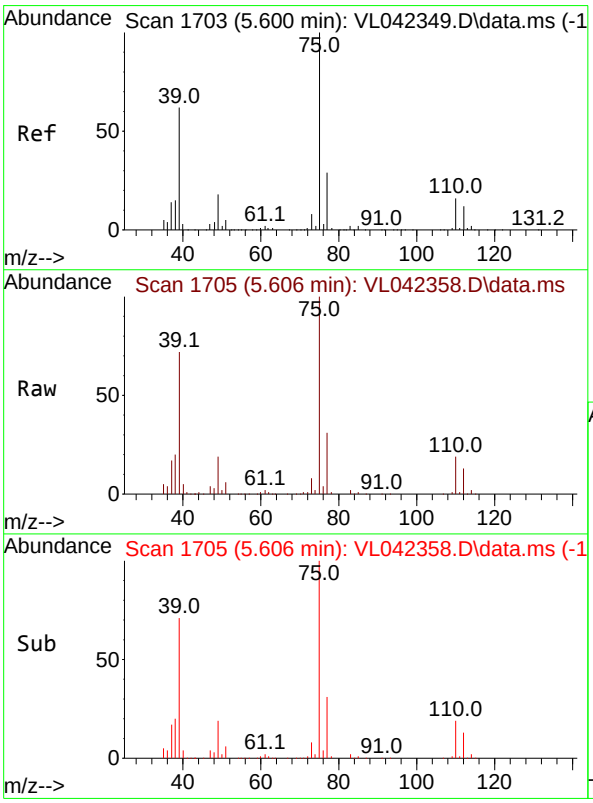

#45
t-1,3-Dichloropropene
Concen: 9.864 ppbv
RT: 6.422 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

Tgt Ion: 75 Resp: 172514

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 28.7 | 27.0 | 40.6 |

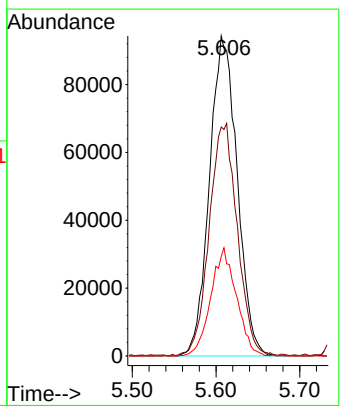


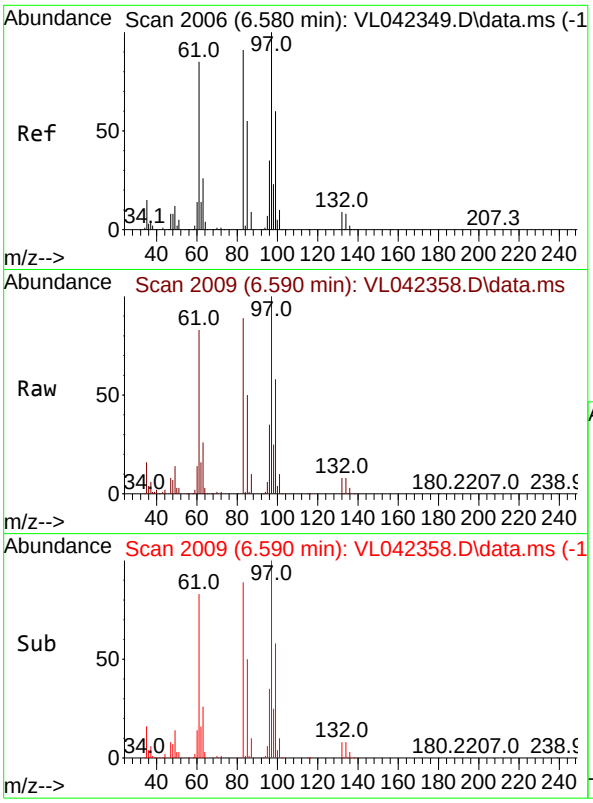




#46
cis-1,3-Dichloropropene
Concen: 10.133 ppbv
RT: 5.606 min Scan# 1705
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 75 Resp: 216901

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 39 | 71.3 | 50.0 | 75.0 |
| 77 | 31.1 | 23.0 | 34.6 |



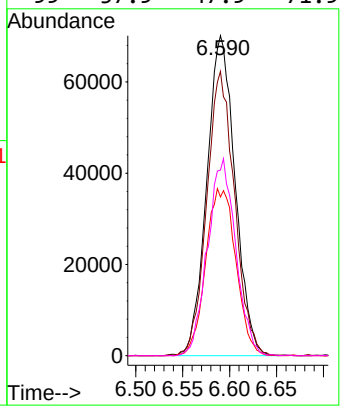


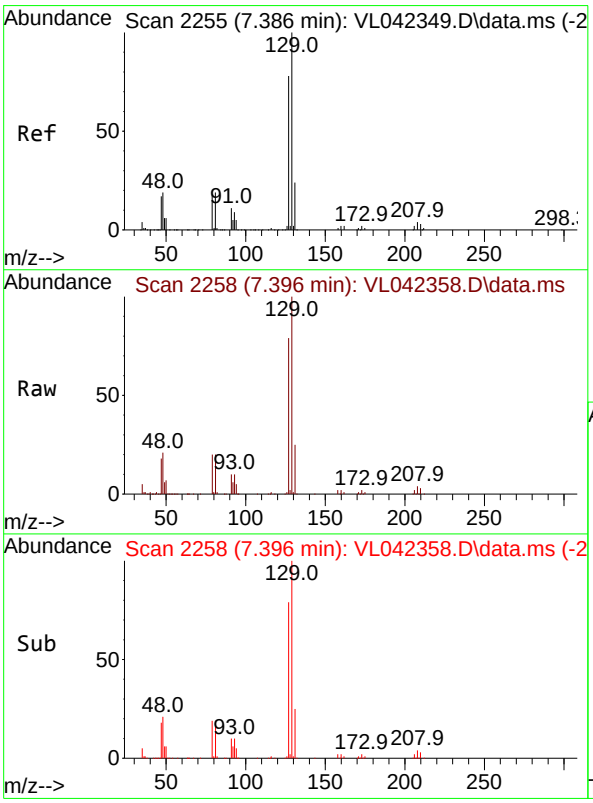

#47
1,1,2-Trichloroethane
Concen: 10.161 ppbv
RT: 6.590 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

Tgt Ion: 97 Resp: 146547

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 88.7 | 72.8 | 109.2 |
| 85 | 49.6 | 44.2 | 66.4 |
| 99 | 57.9 | 47.9 | 71.9 |

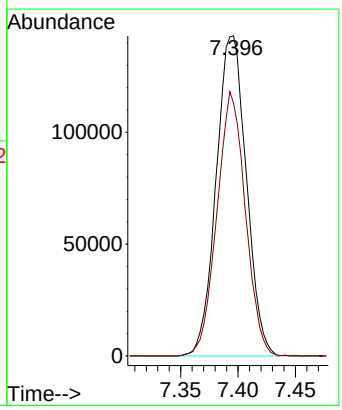


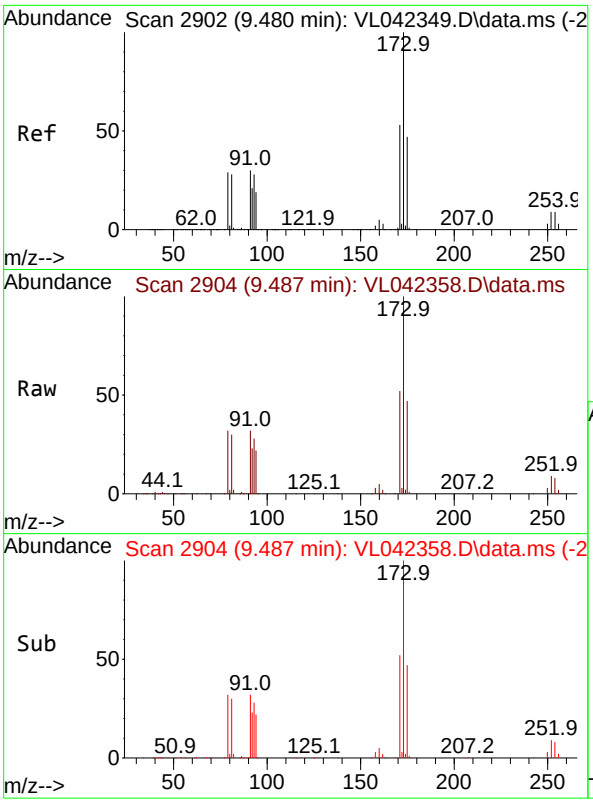




#48
Dibromochloromethane
Concen: 10.261 ppbv
RT: 7.396 min Scan# 2258
Delta R.T. 0.010 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:129 Resp: 261470

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.9 | 39.1 | 117.3 |



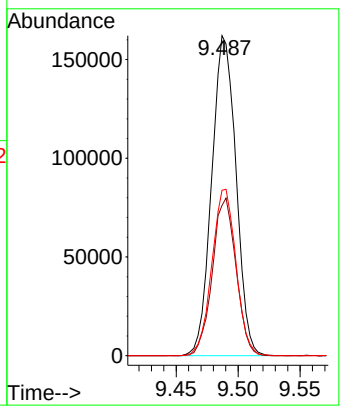


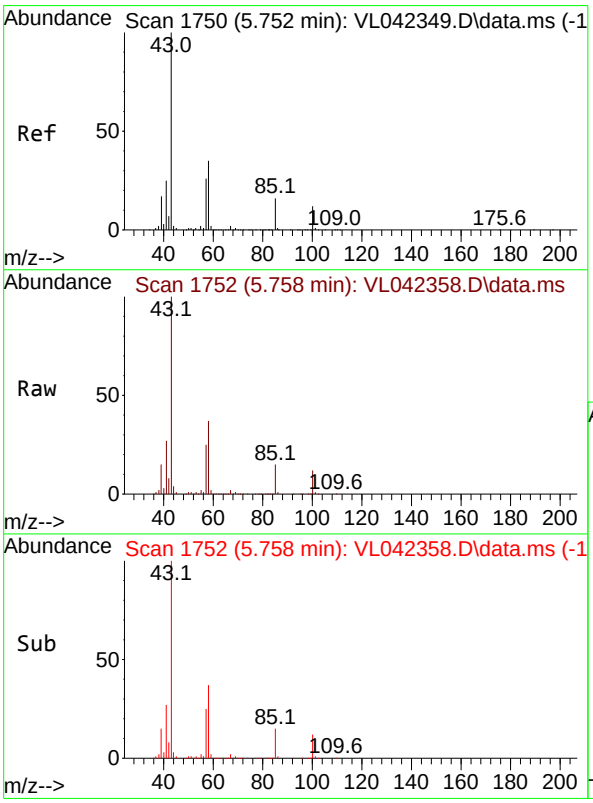

#49
Bromoform
Concen: 9.936 ppbv
RT: 9.487 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

Tgt Ion:173 Resp: 221372

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.0 | 38.2 | 57.2 |
| 171 | 51.7 | 40.9 | 61.3 |

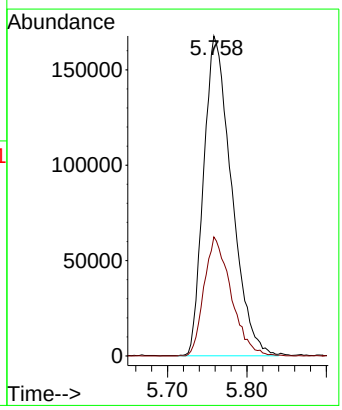


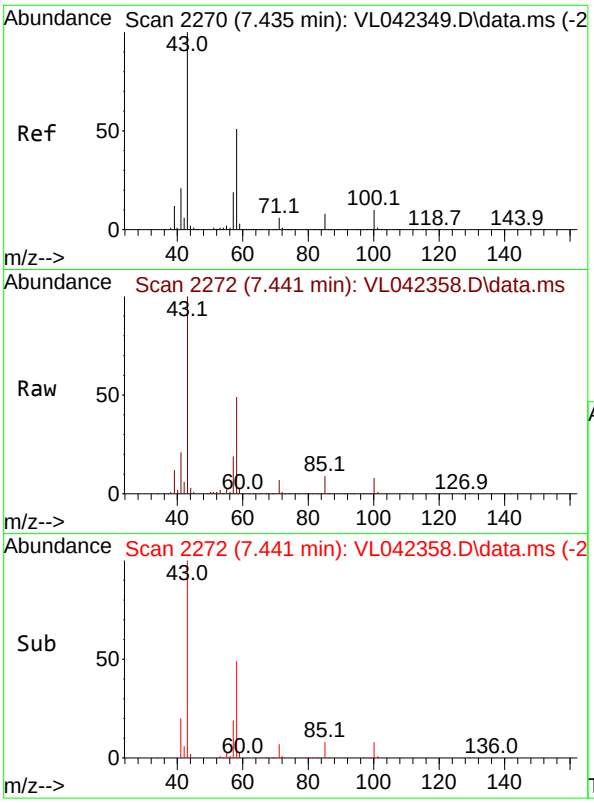




#50
4-Methyl-2-Pentanone
Concen: 8.810 ppbv
RT: 5.758 min Scan# 1752
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 43 Resp: 407804

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 36.2 | 28.6 | 43.0 |



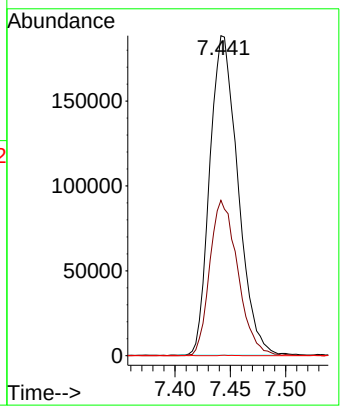


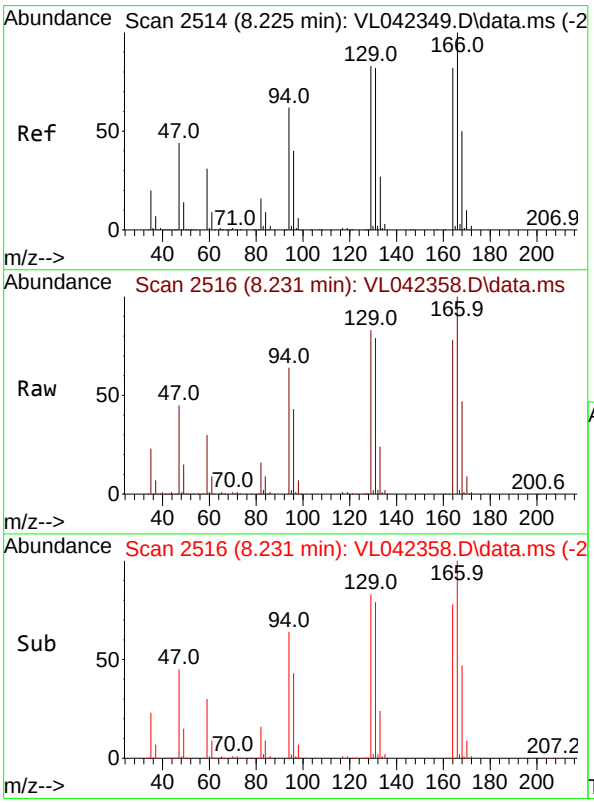

#51
2-Hexanone
Concen: 8.013 ppbv
RT: 7.441 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

Tgt Ion: 43 Resp: 332646

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 48.6 | 40.2 | 60.4 |
| 98 | 0.1 | 0.1 | 0.1# |

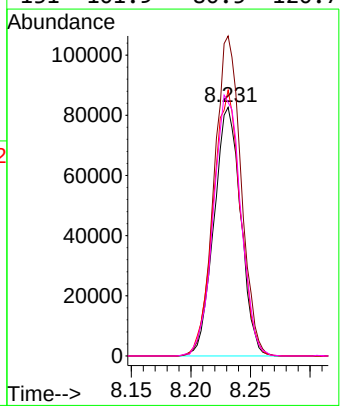


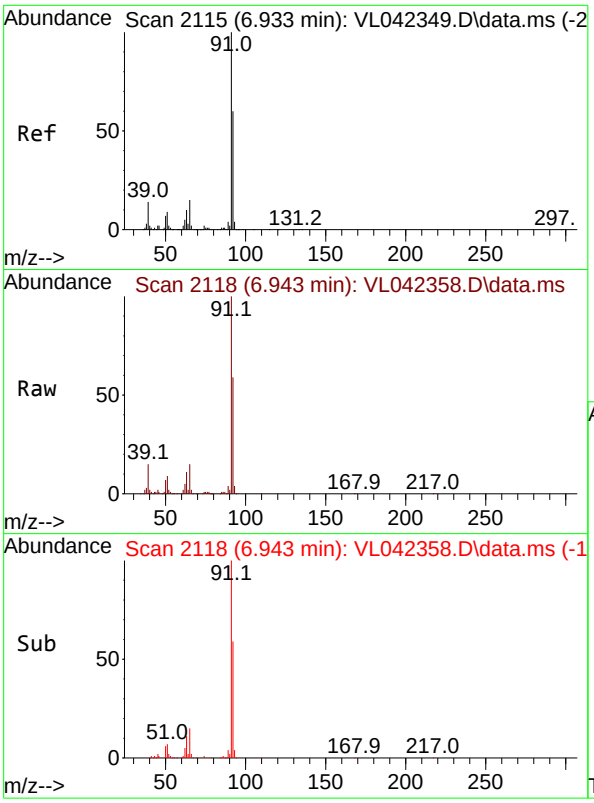




#52
Tetrachloroethene
Concen: 8.763 ppbv
RT: 8.231 min Scan# 2516
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:164 Resp: 128670

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 128.7 | 98.2 | 147.2 |
| 129 | 106.9 | 81.8 | 122.8 |
| 131 | 101.9 | 80.5 | 120.7 |



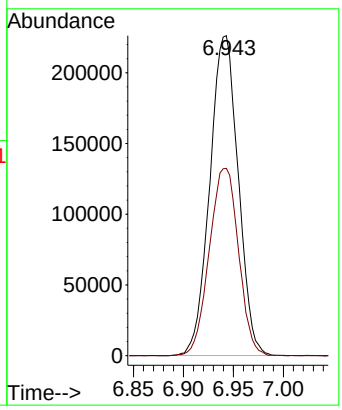


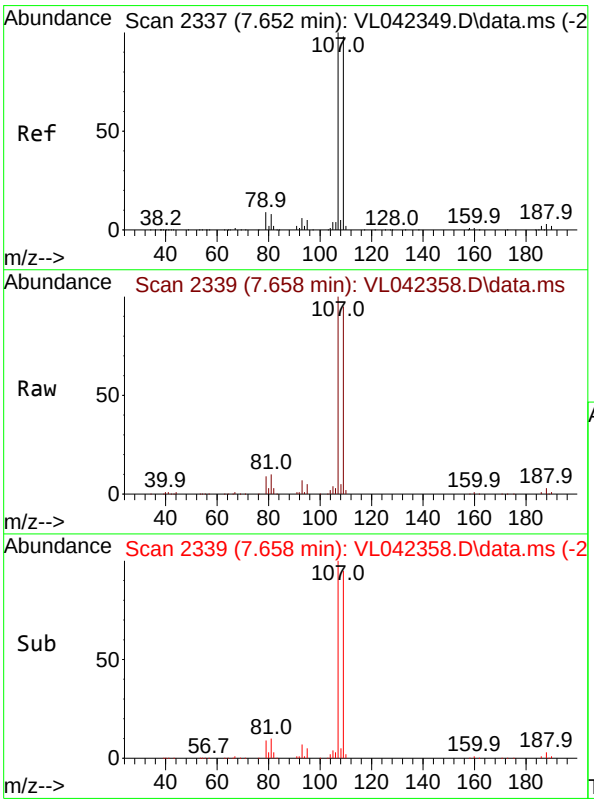

#53
Toluene
Concen: 9.818 ppbv
RT: 6.943 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

Tgt Ion: 91 Resp: 447581

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 60.3 | 48.2 | 72.4 |

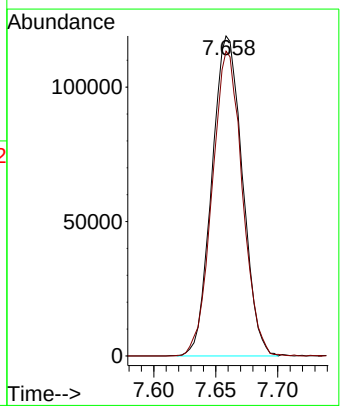


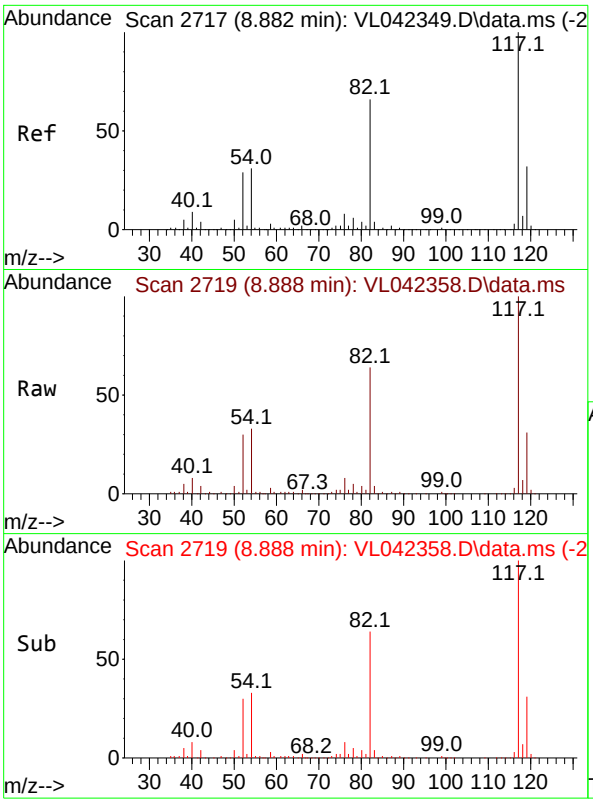




#54
1,2-Dibromoethane
Concen: 9.899 ppbv
RT: 7.658 min Scan# 2339
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:107 Resp: 204328

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 95.1 | 78.2 | 117.4 |



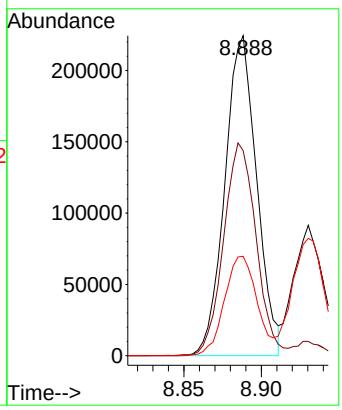


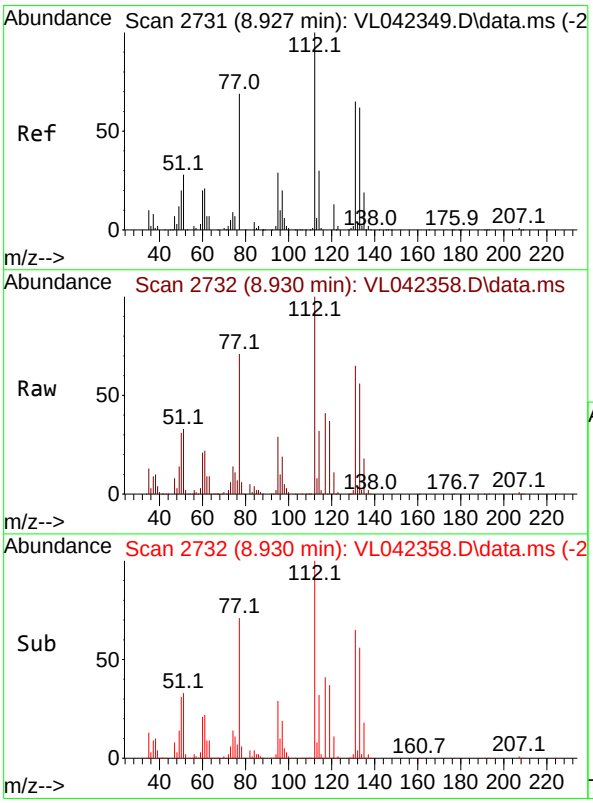

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

Tgt Ion:117 Resp: 321521

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 71.8 | 57.8 | 86.6 |
| 119 | 32.5 | 25.2 | 37.8 |

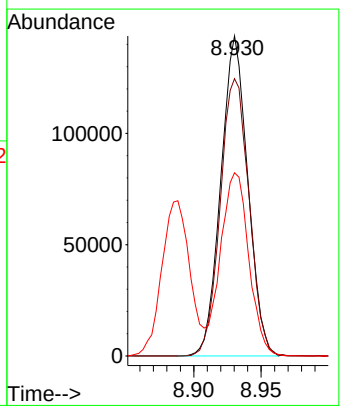


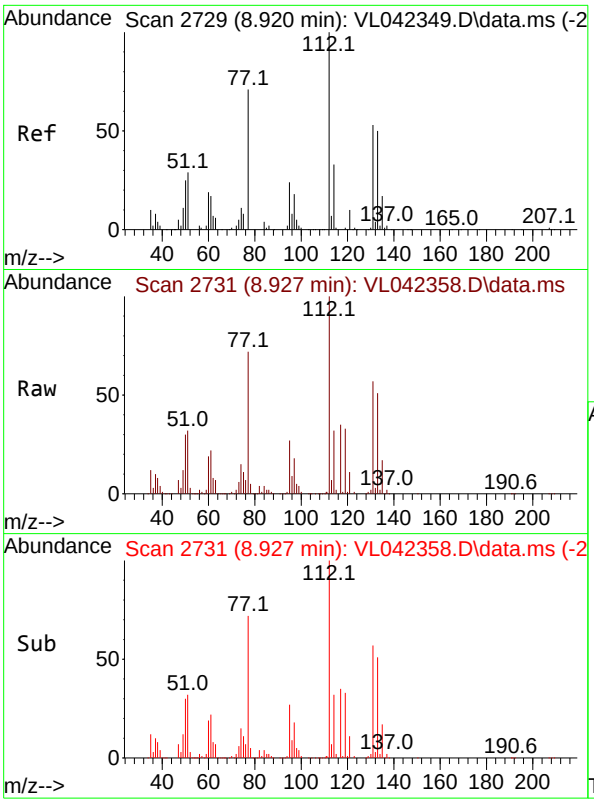




#56
1,1,1,2-Tetrachloroethane
Concen: 10.275 ppbv
RT: 8.930 min Scan# 2732
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:131 Resp: 199945

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 92.5 | 78.3 | 117.5 |
| 119 | 60.2 | 48.7 | 73.1 |



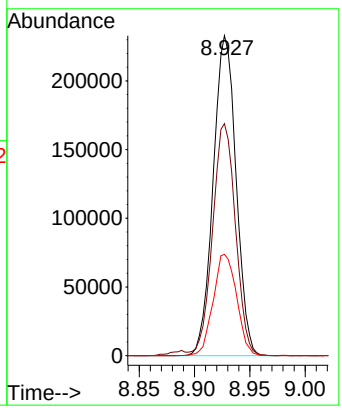


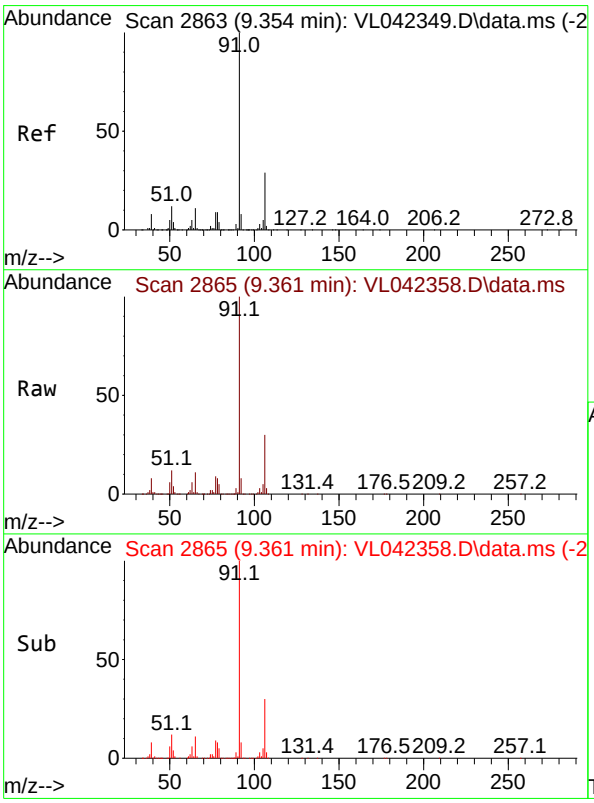

#57
Chlorobenzene
Concen: 10.022 ppbv
RT: 8.927 min Scan# 2
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

Tgt Ion:112 Resp: 335143

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 72.4 | 57.8 | 86.6 |
| 114 | 31.7 | 29.3 | 35.9 |

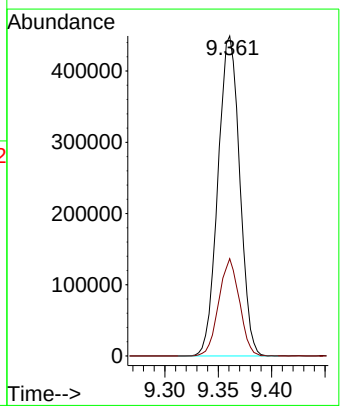


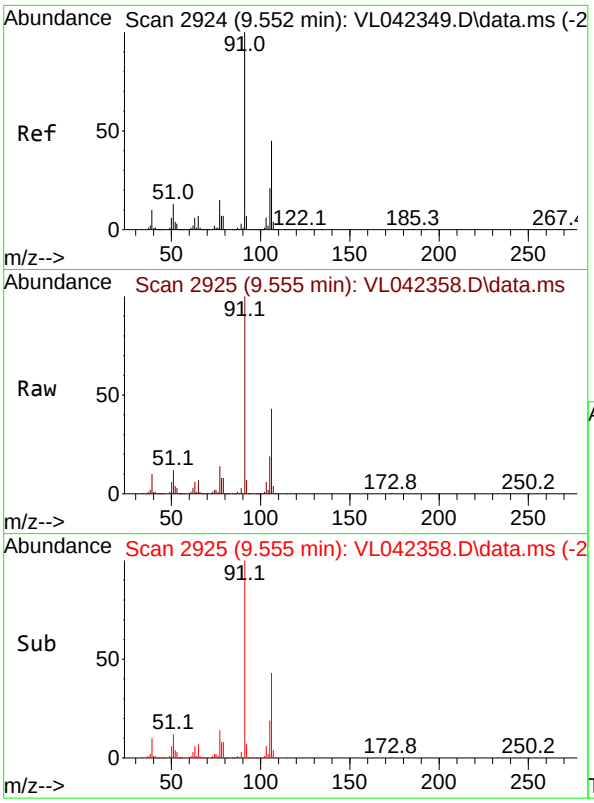




#58
Ethyl Benzene
Concen: 9.975 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 91 Resp: 635446

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.4 | 23.0 | 34.4 |



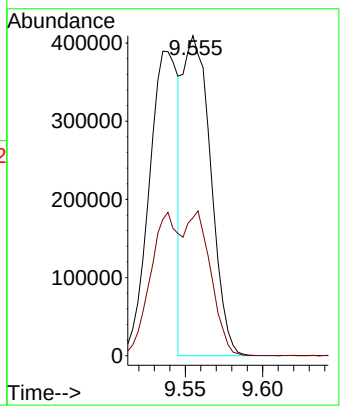


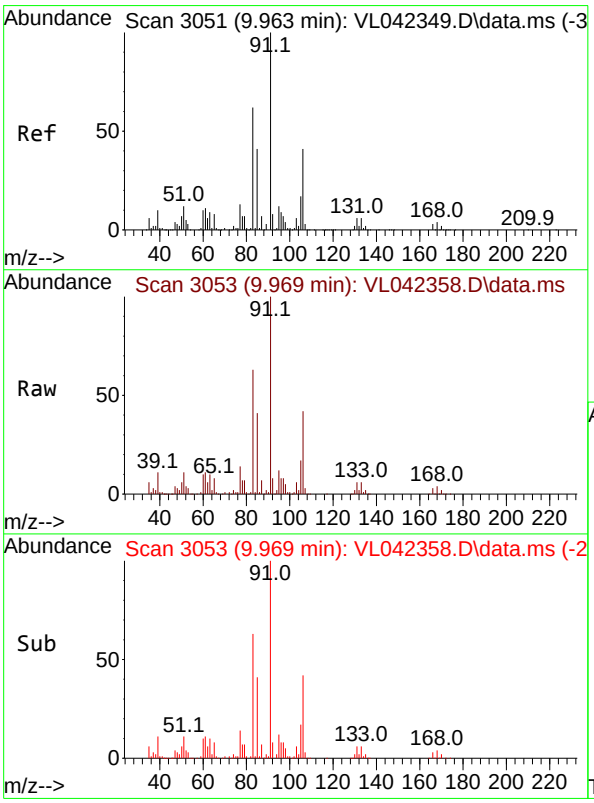

#59
m/p-Xylene
Concen: 10.001 ppbv
RT: 9.555 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

Tgt Ion: 91 Resp: 513237

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 87.8 | 35.4 | 53.2# |

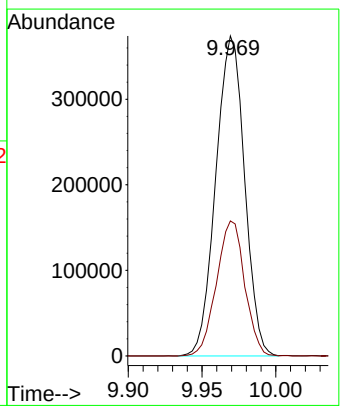


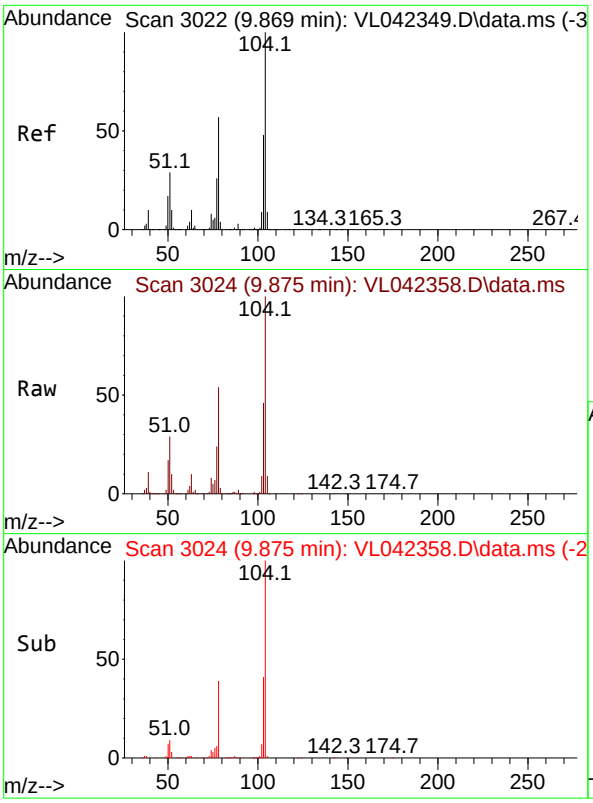




#60
o-Xylene
Concen: 9.802 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 91 Resp: 506535

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 41.4 | 21.1 | 63.4 |



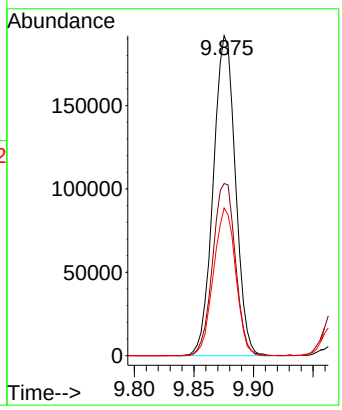


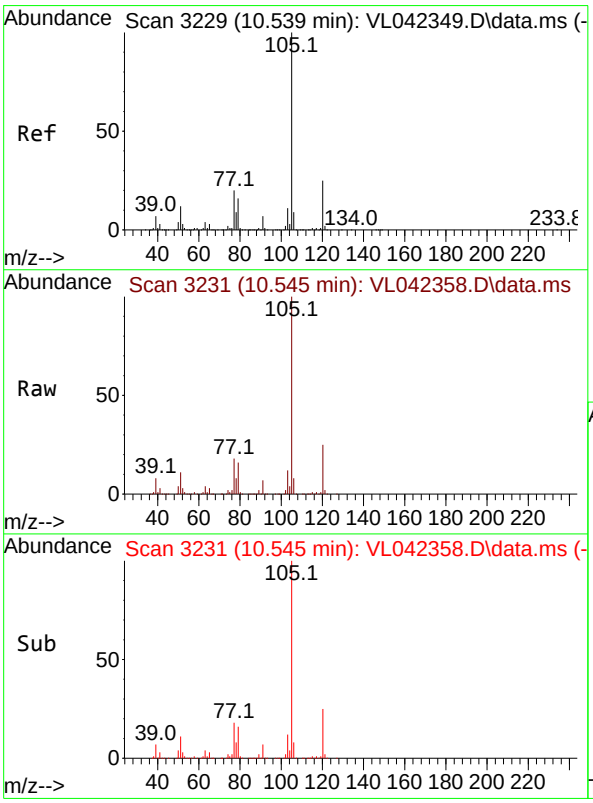

#61
Styrene
Concen: 10.055 ppbv
RT: 9.875 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

Tgt Ion:104 Resp: 248022

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 55.3 | 44.6 | 66.8 |
| 103 | 46.2 | 37.4 | 56.0 |

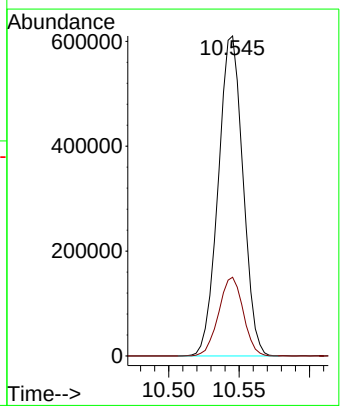


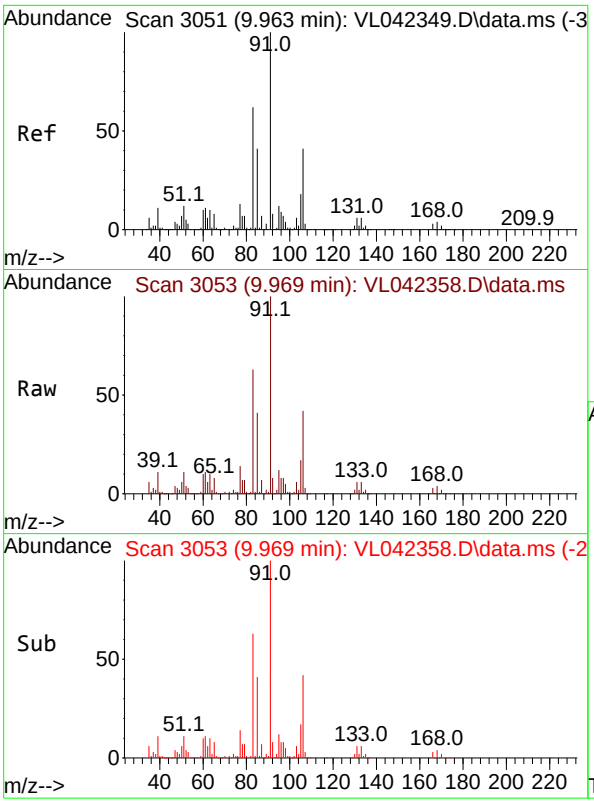




#62
Isopropylbenzene
Concen: 9.827 ppbv
RT: 10.545 min Scan# 3231
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:105 Resp: 745571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 24.5 | 19.8 | 29.8 |



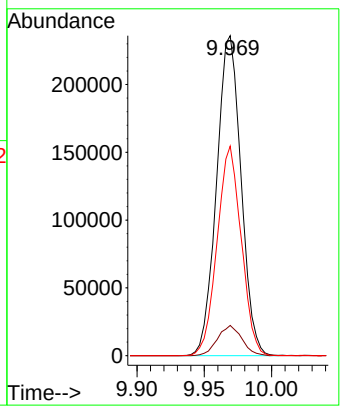


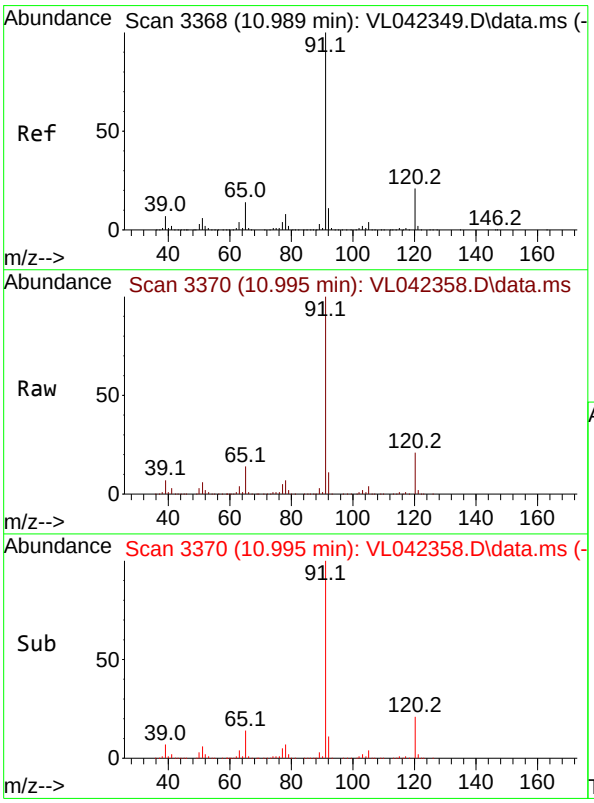

#63
1,1,2,2-Tetrachloroethane
Concen: 8.916 ppbv
RT: 9.969 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

Tgt Ion: 83 Resp: 298581

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.4 | 4.5 | 13.7 |
| 85 | 64.5 | 32.4 | 97.0 |

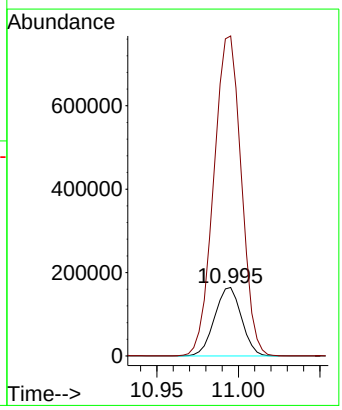


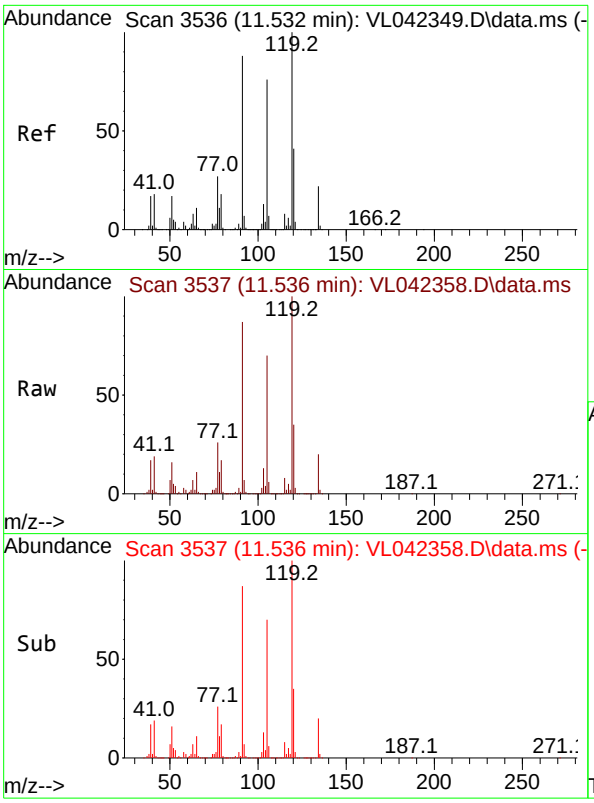




#64
n-propylbenzene
Concen: 9.875 ppbv
RT: 10.995 min Scan# 3370
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:120 Resp: 188310

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 478.2 | 392.4 | 588.6 |



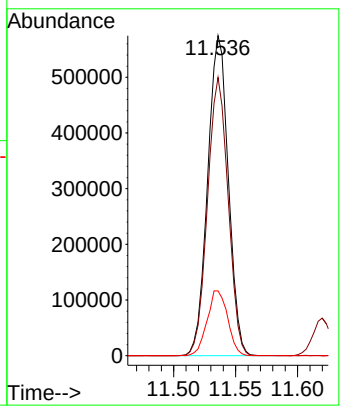


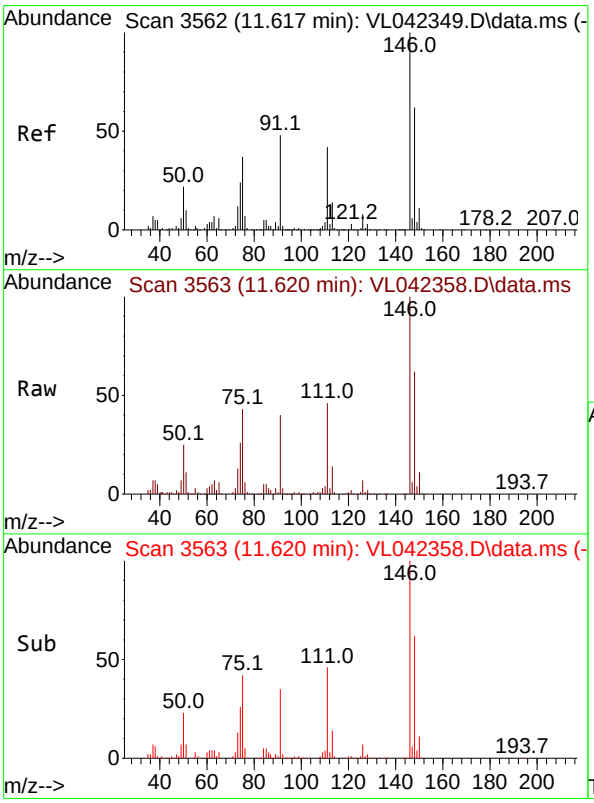

#65
tert-Butylbenzene
Concen: 9.589 ppbv
RT: 11.536 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

Tgt Ion:119 Resp: 668687

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 86.7 | 74.6 | 111.8 |
| 134 | 20.2 | 18.8 | 28.2 |

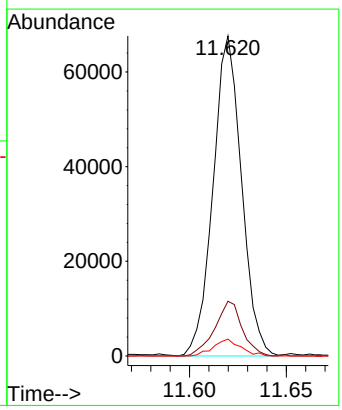


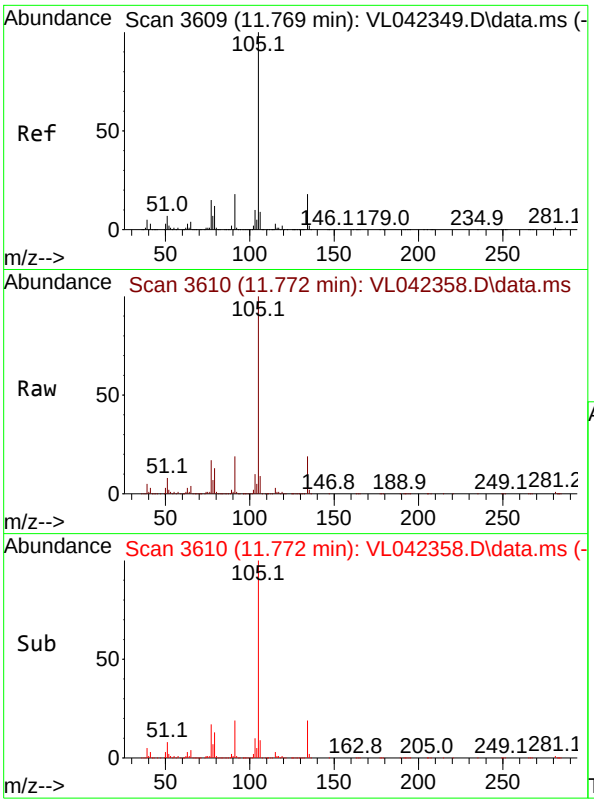




#66
Benzyl Chloride
Concen: 9.012 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 91 Resp: 69058

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 16.5 | 11.8 | 17.6 |
| 128 | 5.0 | 4.5 | 6.7 |



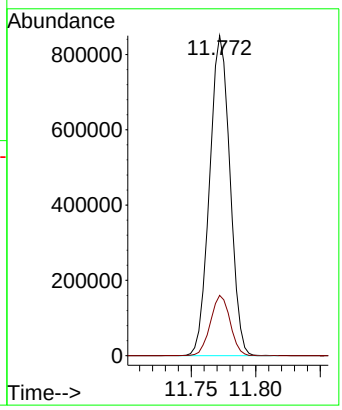


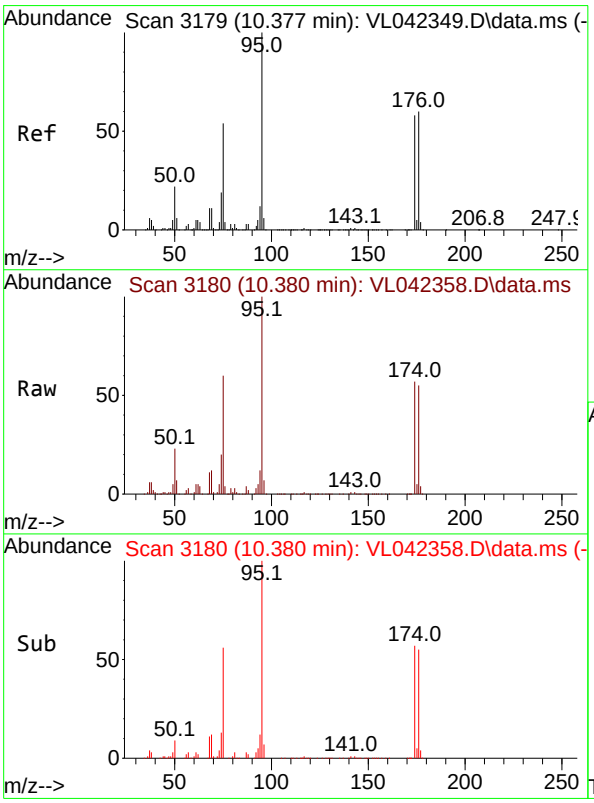

#67
sec-Butylbenzene
Concen: 9.592 ppbv
RT: 11.772 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

Tgt Ion:105 Resp: 930426

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 18.3 | 14.6 | 21.8 |

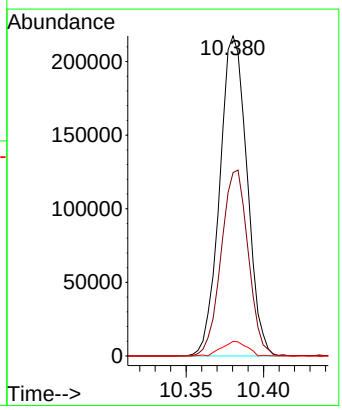


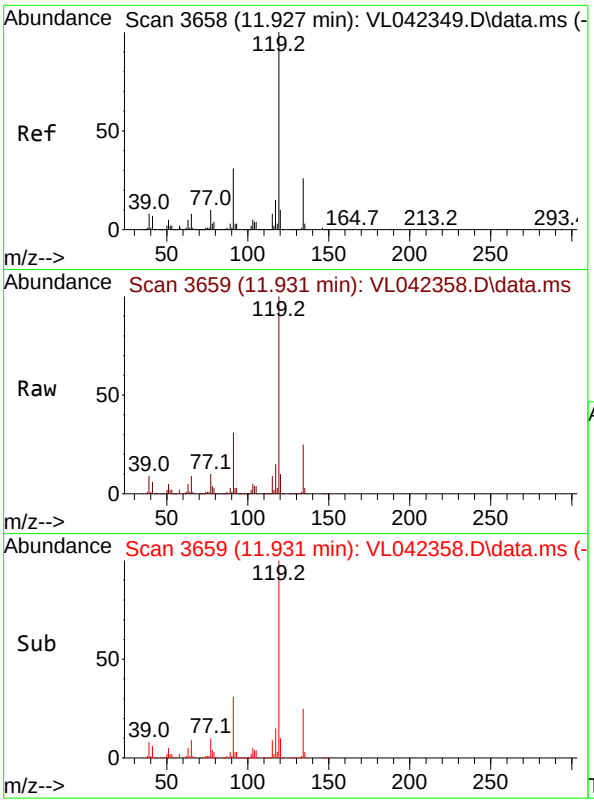




#68
1-Bromo-4-Fluorobenzene
Concen: 10.096 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 95 Resp: 266757

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 57.3 | 48.5 | 72.7 |
| 175 | 4.3 | 3.7 | 5.5 |



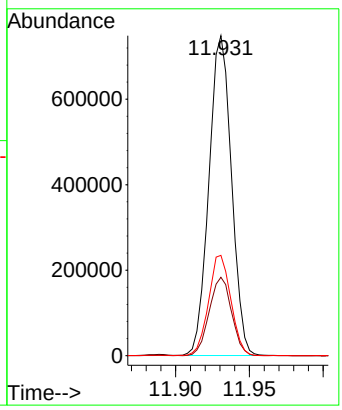


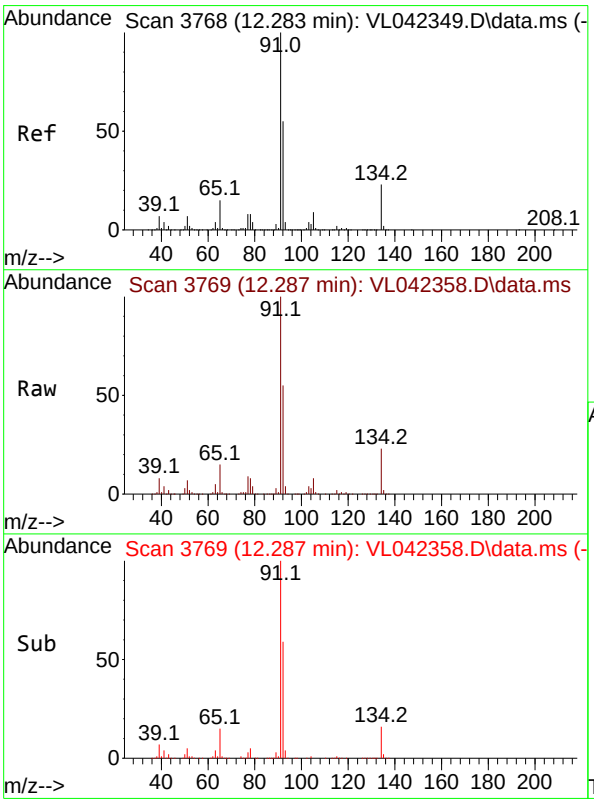

#69
p-Isopropyltoluene
Concen: 9.441 ppbv
RT: 11.931 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

Tgt Ion:119 Resp: 795532

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 24.5 | 20.0 | 30.0 |
| 91 | 31.2 | 24.4 | 36.6 |

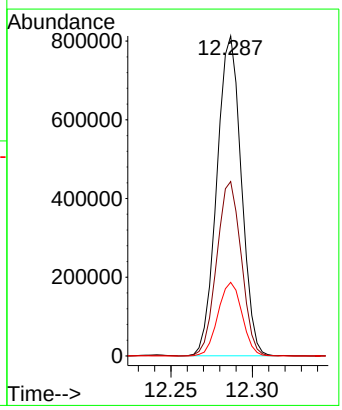


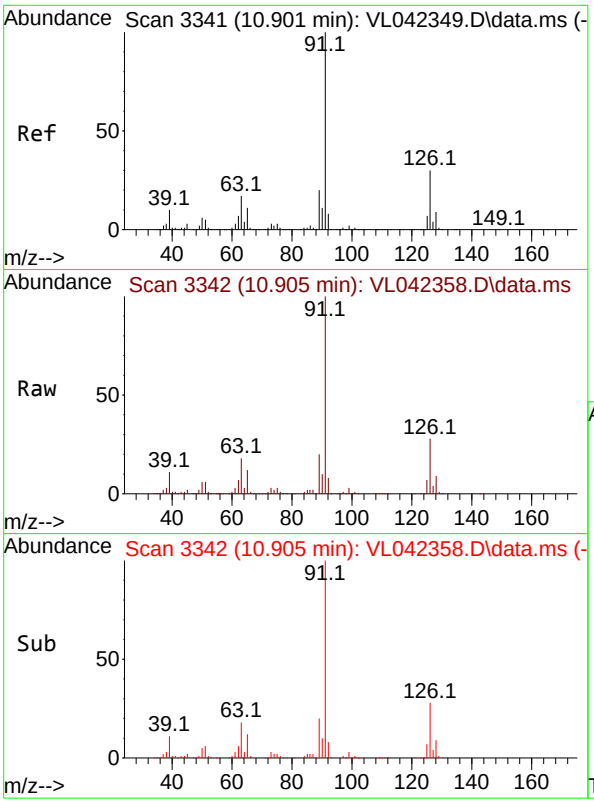




#70
n-Butylbenzene
Concen: 9.644 ppbv
RT: 12.287 min Scan# 3769
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 91 Resp: 846427

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 54.9 | 44.2 | 66.4 |
| 134 | 22.7 | 18.2 | 27.4 |



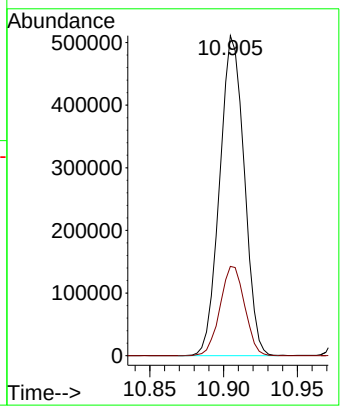


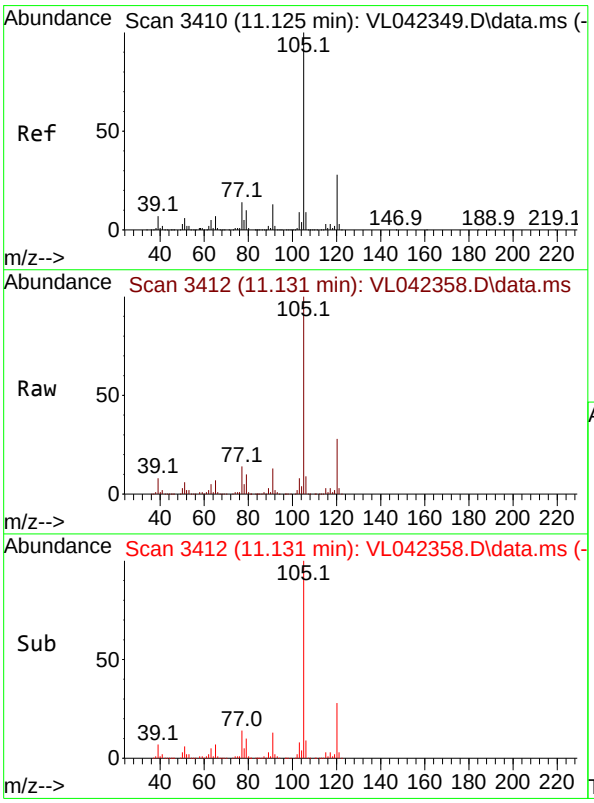

#71
2-Chlorotoluene
Concen: 9.934 ppbv
RT: 10.905 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

Tgt Ion: 91 Resp: 591154

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 27.9 | 11.4 | 45.4 |

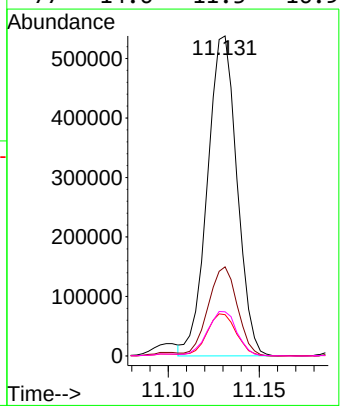


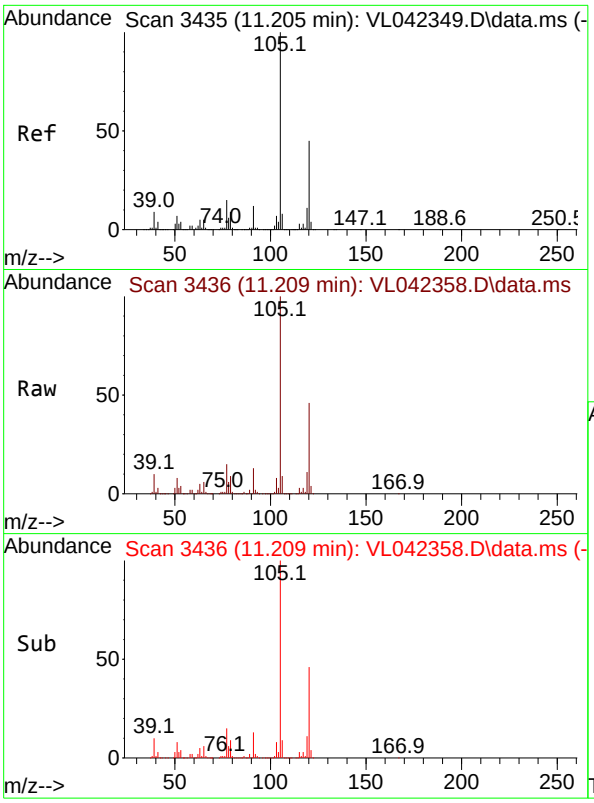




#72
4-Ethyltoluene
Concen: 9.606 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:105 Resp: 606879

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 28.6 | 23.2 | 34.8 |
| 91 | 13.5 | 10.4 | 15.6 |
| 77 | 14.6 | 11.3 | 16.9 |



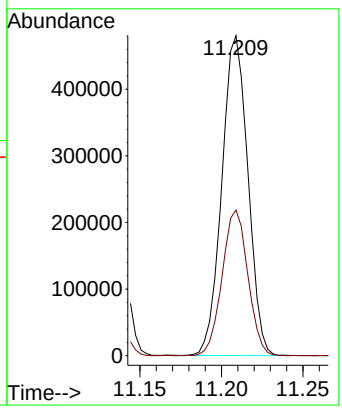


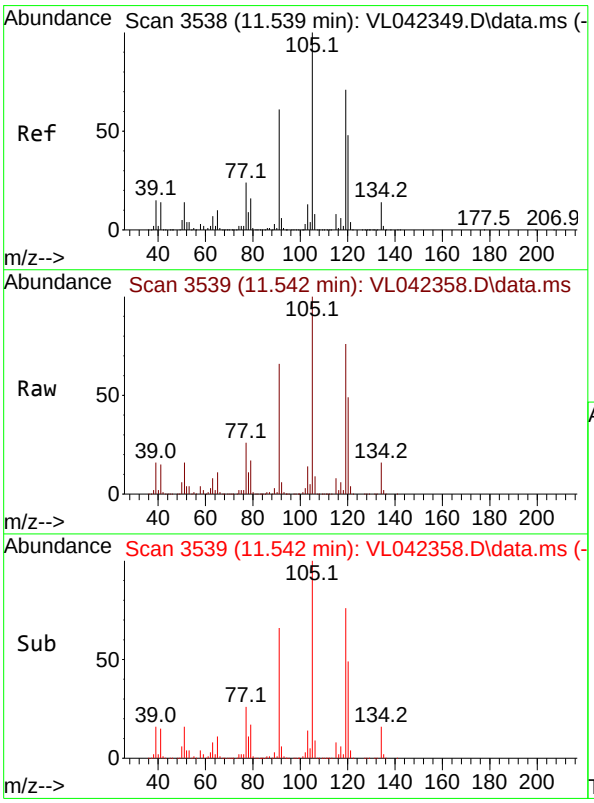

#73
1,3,5-Trimethylbenzene
Concen: 9.557 ppbv
RT: 11.209 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

Tgt Ion:105 Resp: 533060

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.6 | 35.6 | 53.4 |

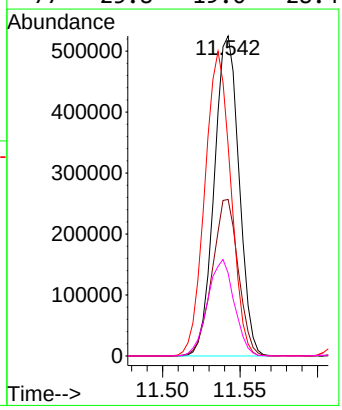


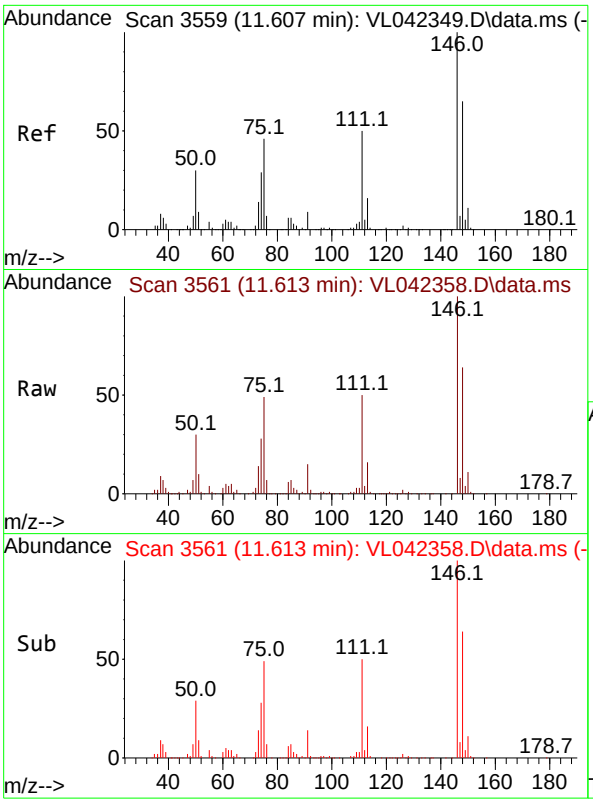




#74
1,2,4-Trimethylbenzene
Concen: 8.976 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:105 Resp: 584747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.9 | 38.1 | 57.1 |
| 91 | 65.8 | 48.8 | 73.2 |
| 77 | 25.8 | 19.0 | 28.4 |



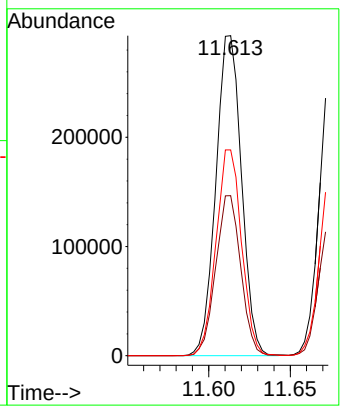


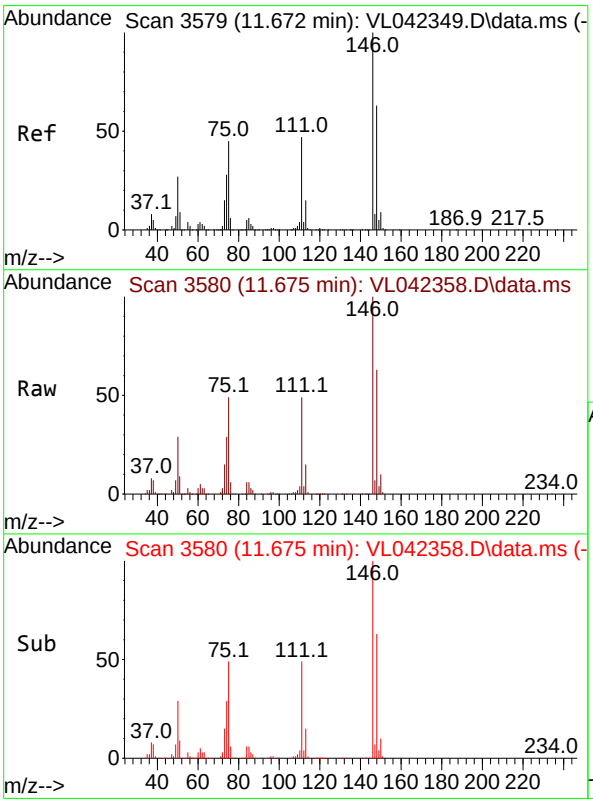

#75
1,3-Dichlorobenzene
Concen: 9.474 ppbv
RT: 11.613 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

Tgt Ion:146 Resp: 320811

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 48.8 | 24.3 | 72.8 |
| 148 | 64.0 | 31.6 | 94.8 |

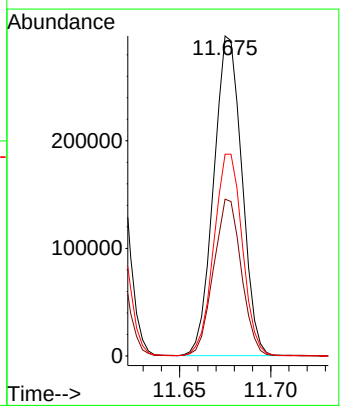


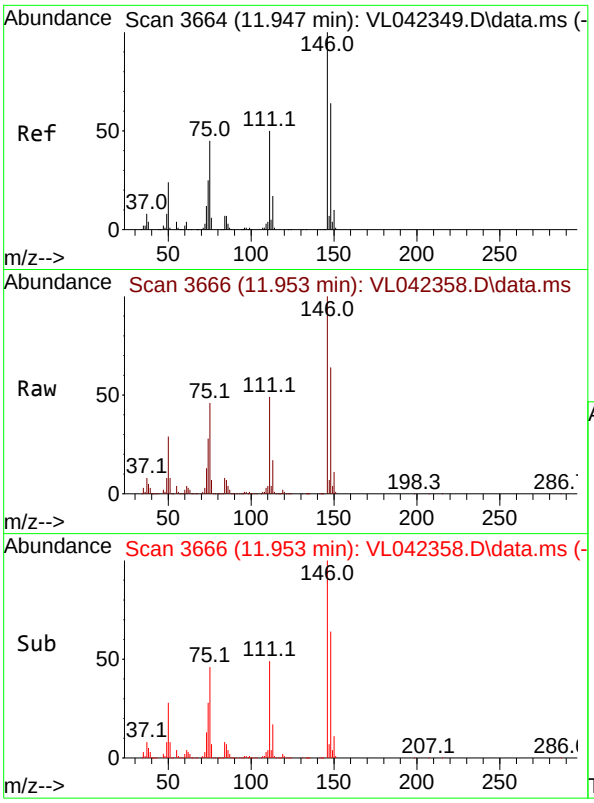




#76
1,4-Dichlorobenzene
Concen: 9.384 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:146 Resp: 319376

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 48.6 | 24.2 | 72.6 |
| 148 | 64.1 | 32.1 | 96.5 |



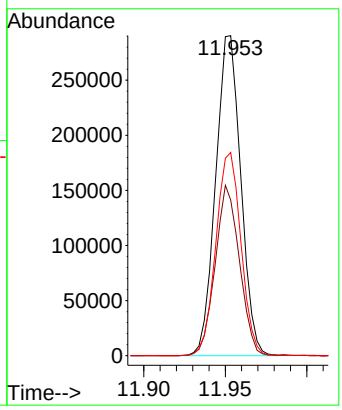


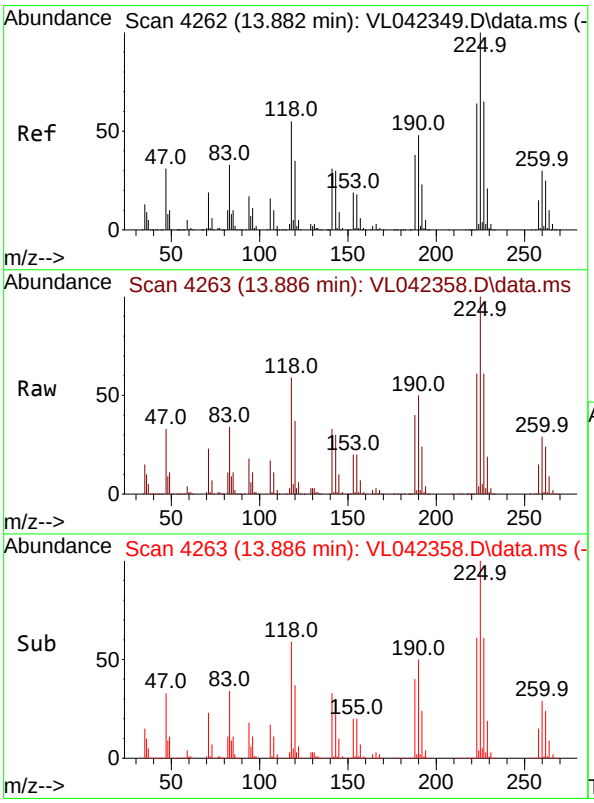

#77
1,2-Dichlorobenzene
Concen: 9.459 ppbv
RT: 11.953 min Scan# 3
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

Tgt Ion:146 Resp: 311460

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 51.4 | 25.3 | 75.9 |
| 148 | 63.4 | 31.5 | 94.5 |

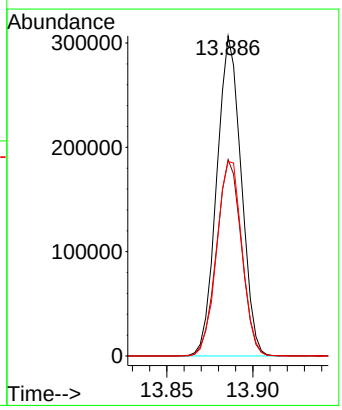


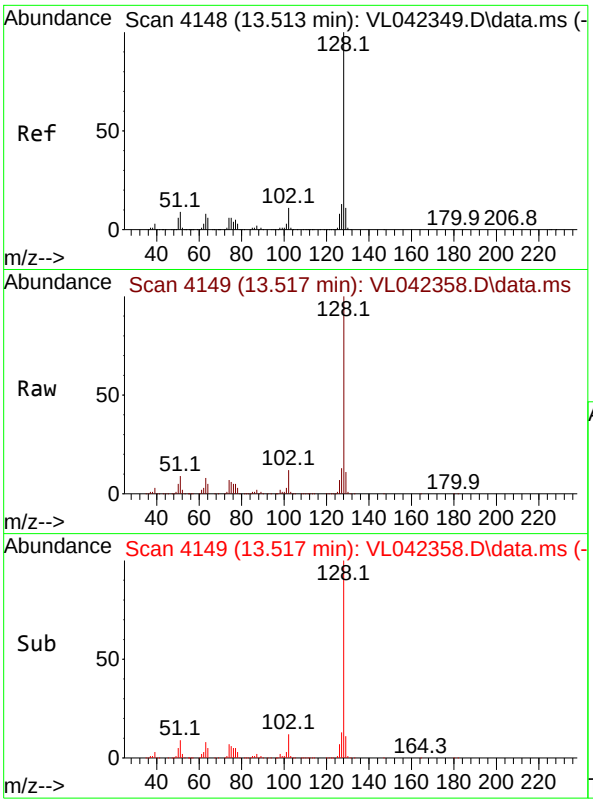




#78
Hexachloro-1,3-Butadiene
Concen: 9.124 ppbv
RT: 13.886 min Scan# 4263
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:225 Resp: 303379

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.3 | 50.3 | 75.5 |
| 227 | 62.9 | 51.5 | 77.3 |



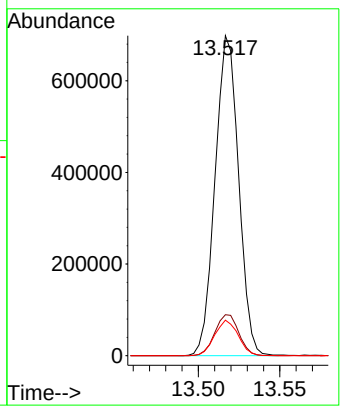


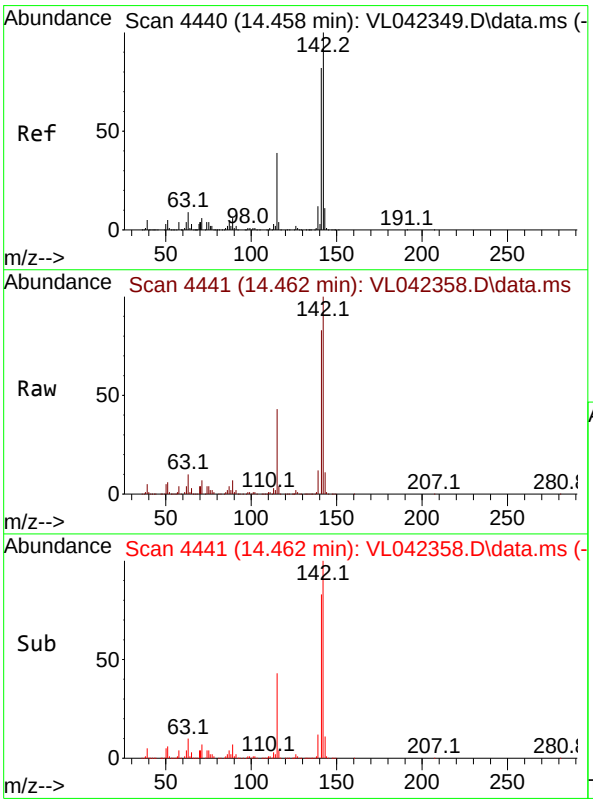

#79
Naphthalene
Concen: 8.999 ppbv
RT: 13.517 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

Tgt Ion:128 Resp: 701010

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.8 | 10.6 | 15.8 |
| 129 | 11.1 | 8.6 | 12.8 |

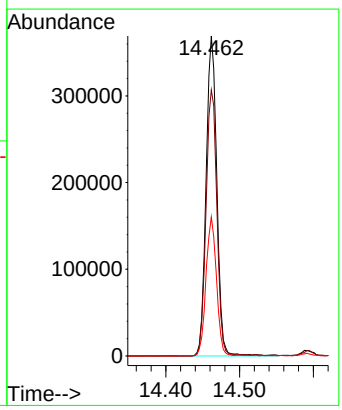


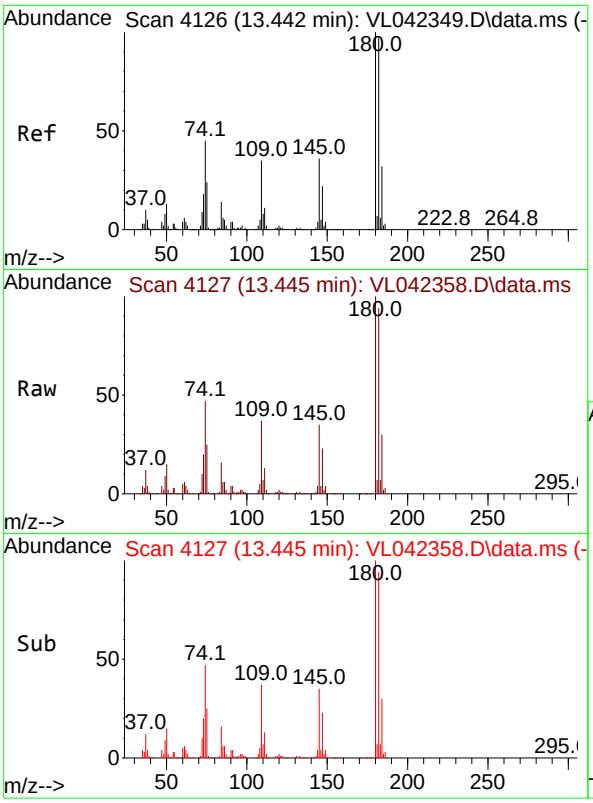




#80
Naphthalene,2-methyl-
Concen: 8.331 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:142 Resp: 369891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 85.0 | 66.8 | 100.2 |
| 115 | 42.8 | 33.4 | 50.2 |



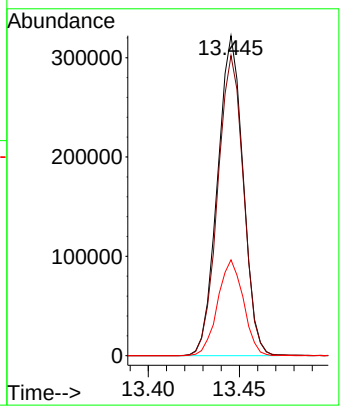



#81
1,2,4-Trichlorobenzene
Concen: 9.417 ppbv
RT: 13.445 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0417ABS01

Tgt Ion:180 Resp: 315002

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.8 | 76.8 | 115.2 |
| 184 | 30.1 | 24.6 | 36.8 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042359.D
Acq On : 17 Apr 2025 16:12
Operator : SY/MD
Sample : Q1665-15
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025

Quant Time: Apr 18 02:37:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.787 | 49 | 123457 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.962 | 114 | 354157 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.882 | 117 | 318284 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95 | 265265 | 10.142 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 101.400% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.499 | 85 | 9411 | 0.431 | ppbv | 90 |
| 3) Chlorodifluoromethane | 1.787 | 51 | 2267 | 0.109 | ppbv | 94 |
| 4) Chloromethane | 1.531 | 50 | 5667 | 0.657 | ppbv | 96 |
| 6) Bromomethane | 1.674 | 94 | 376 | 0.093 | ppbv # | 23 |
| 7) Chloroethane | 1.703 | 64 | 369 | 0.109 | ppbv # | 44 |
| 9) Propene | 1.489 | 41 | 15185 | 1.605 | ppbv | 84 |
| 10) Heptane | 4.981 | 43 | 1318 | 0.050 | ppbv # | 1 |
| 11) Trichlorofluoromethane | 1.877 | 101 | 4367 | 0.211 | ppbv | 92 |
| 12) 1,1,2-Trichlorotrifluo... | 2.136 | 101 | 1357 | 0.080 | ppbv | 86 |
| 13) Ethanol | 1.722 | 45 | 25940 | 17.253 | ppbv | 75 |
| 15) Acetone | 1.835 | 43 | 775779 | 38.385 | ppbv | 99 |
| 16) 1,3-Butadiene | 1.599 | 39 | 2667 | 0.276 | ppbv # | 75 |
| 17) tert-Butyl alcohol | 2.046 | 59 | 3528 | 0.141 | ppbv # | 74 |
| 19) Isopropyl Alcohol | 1.887 | 45 | 1485068 | 132.276 | ppbv # | 56 |
| 20) Methylene Chloride | 2.062 | 84 | 9718 | 1.228 | ppbv # | 92 |
| 21) Allyl Chloride | 1.962 | 41 | 7172 | 0.514 | ppbv # | 23 |
| 23) Vinyl Acetate | 2.454 | 43 | 17524 | 2.142 | ppbv # | 82 |
| 25) Ethyl Acetate | 2.826 | 43 | 36321 | 0.729 | ppbv # | 83 |
| 26) Hexane | 2.826 | 57 | 54108 | 2.683 | ppbv # | 32 |
| 27) Carbon Disulfide | 2.149 | 76 | 930 | 0.043 | ppbv # | 2 |
| 29) Chloroform | 2.852 | 83 | 5846 | 0.205 | ppbv | 85 |
| 32) 1,1,1-Trichloroethane | 3.370 | 97 | 1105 | 0.034 | ppbv # | 77 |
| 34) 2-Butanone | 2.560 | 43 | 20685 | 0.739 | ppbv | 98 |
| 35) Carbon Tetrachloride | 3.761 | 117 | 2133 | 0.067 | ppbv # | 67 |
| 36) Benzene | 3.658 | 78 | 6728 | 0.176 | ppbv # | 92 |
| 37) 1,2-Dichloroethane | 3.217 | 62 | 697 | 0.030 | ppbv | 99 |
| 39) 1,2-Dichloropropane | 3.959 | 63 | 94322 | 6.626 | ppbv # | 22 |
| 40) 1,4-Dioxane | 4.596 | 88 | 4501 | 0.575 | ppbv # | 34 |
| 41) Tetrahydrofuran | 3.072 | 42 | 1092 | 0.067 | ppbv | 91 |
| 44) 2,2,4-Trimethylpentane | 4.642 | 57 | 7803 | 0.118 | ppbv # | 56 |
| 51) 2-Hexanone | 7.438 | 43 | 31778 | 0.761 | ppbv # | 27 |
| 53) Toluene | 6.936 | 91 | 40500 | 0.884 | ppbv | 97 |
| 58) Ethyl Benzene | 9.354 | 91 | 315931 | 5.010 | ppbv | 99 |
| 59) m/p-Xylene | 9.532 | 91 | 1082733 | 21.313 | ppbv | 100 |
| 60) o-Xylene | 9.963 | 91 | 207265 | 4.051 | ppbv | 98 |
| 61) Styrene | 9.869 | 104 | 1788 | 0.073 | ppbv # | 26 |
| 64) n-propylbenzene | 10.992 | 120 | 602 | 0.032 | ppbv # | 17 |
| 65) tert-Butylbenzene | 11.536 | 119 | 3938 | 0.057 | ppbv # | 92 |
| 69) p-Isopropyltoluene | 11.927 | 119 | 5290 | 0.063 | ppbv # | 86 |
| 70) n-Butylbenzene | 12.287 | 91 | 2923 | 0.034 | ppbv # | 72 |
| 72) 4-Ethyltoluene | 11.128 | 105 | 2922 | 0.047 | ppbv # | 56 |
| 73) 1,3,5-Trimethylbenzene | 11.202 | 105 | 6133 | 0.111 | ppbv | 90 |
| 74) 1,2,4-Trimethylbenzene | 11.536 | 105 | 17646 | 0.274 | ppbv # | 70 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042359.D
Acq On : 17 Apr 2025 16:12
Operator : SY/MD
Sample : Q1665-15
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025

Quant Time: Apr 18 02:37:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

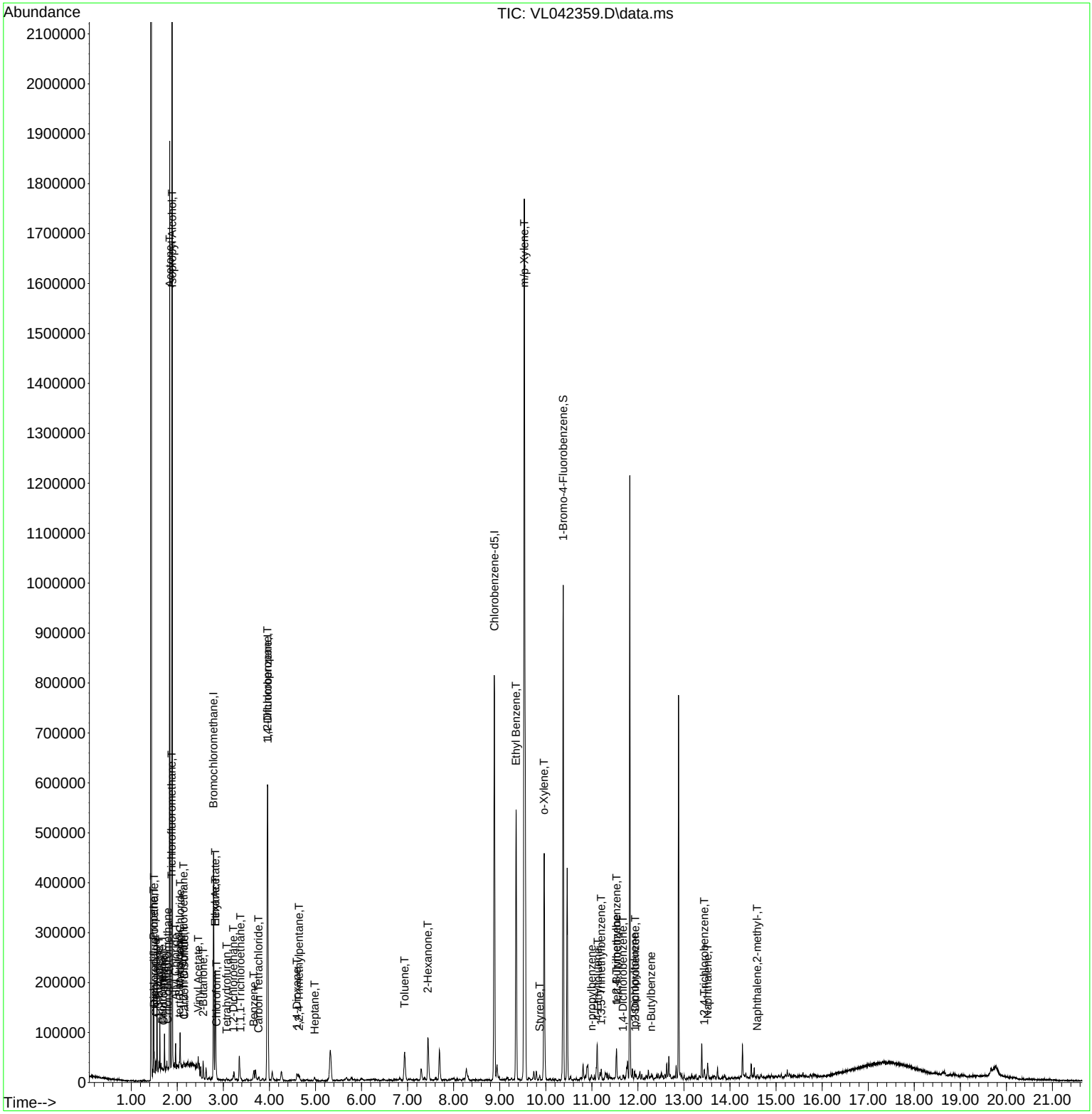
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 76) 1,4-Dichlorobenzene | 11.675 | 146 | 1179 | 0.035 | ppbv | 82 |
| 77) 1,2-Dichlorobenzene | 11.943 | 146 | 1149 | 0.035 | ppbv | 86 |
| 79) Naphthalene | 13.513 | 128 | 10816 | 0.140 | ppbv | 97 |
| 80) Naphthalene,2-methyl- | 14.588 | 142 | 1898 | 0.043 | ppbv | 92 |
| 81) 1,2,4-Trichlorobenzene | 13.442 | 180 | 2886 | 0.087 | ppbv | 92 |

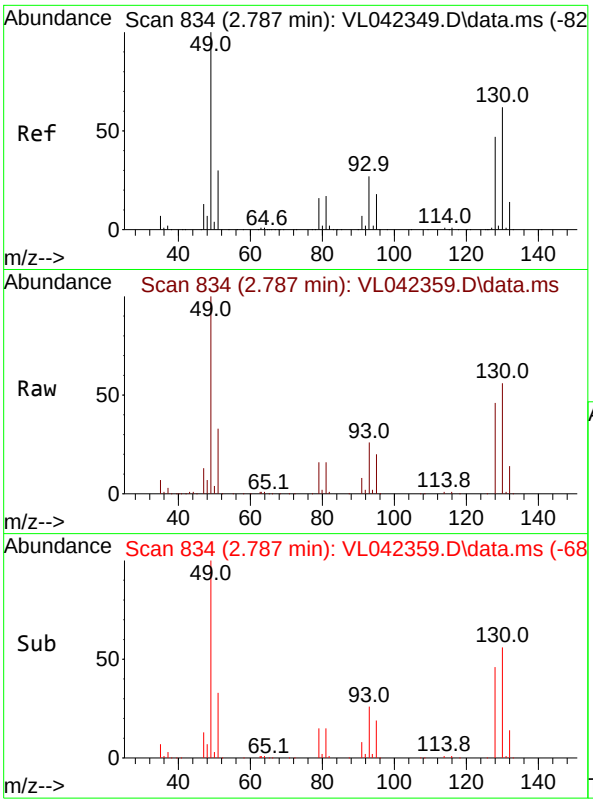
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042359.D
Acq On : 17 Apr 2025 16:12
Operator : SY/MD
Sample : Q1665-15
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025

Quant Time: Apr 18 02:37:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration



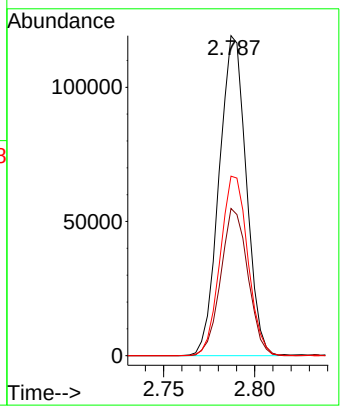


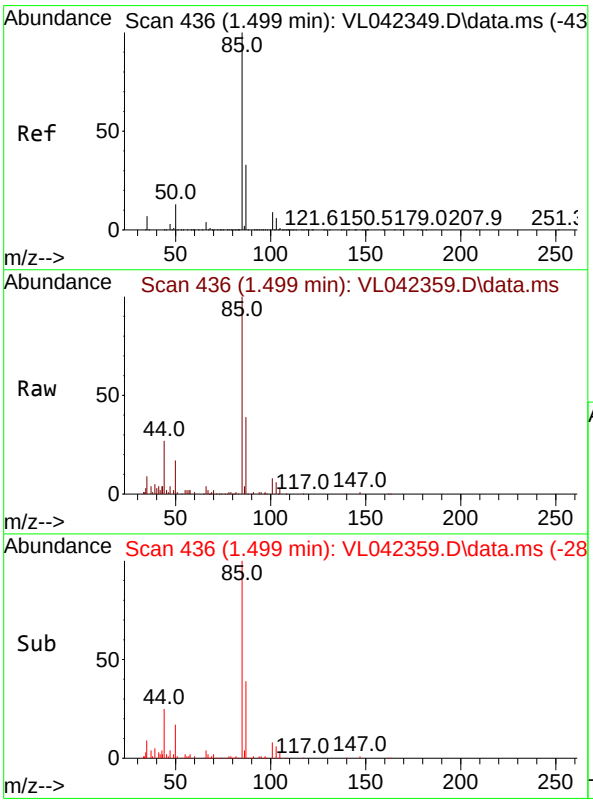

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025

Tgt Ion: 49 Resp: 123457

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 46.0 | 22.8 | 68.4 |
| 130 | 57.2 | 29.3 | 88.0 |

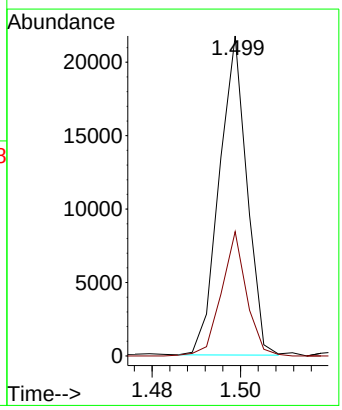


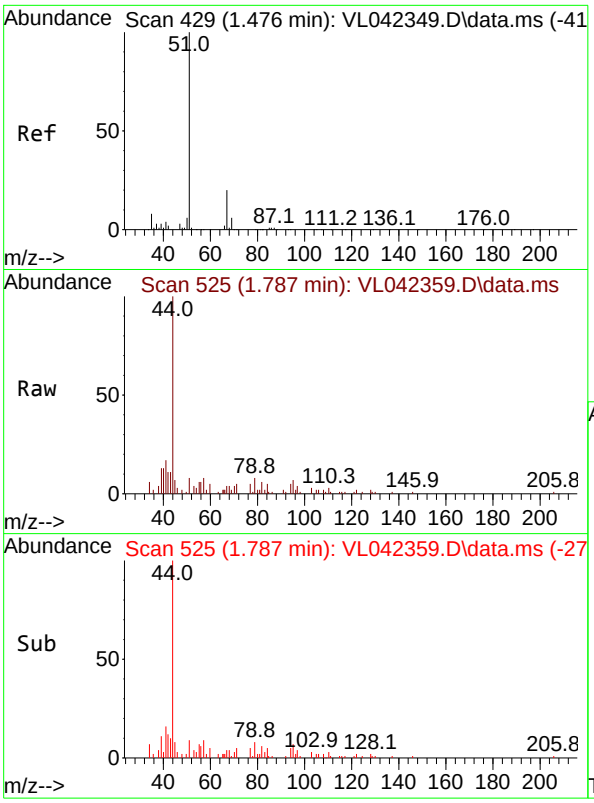




#2
Dichlorodifluoromethane
Concen: 0.431 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 85 Resp: 9411

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 38.7 | 26.6 | 39.8 |



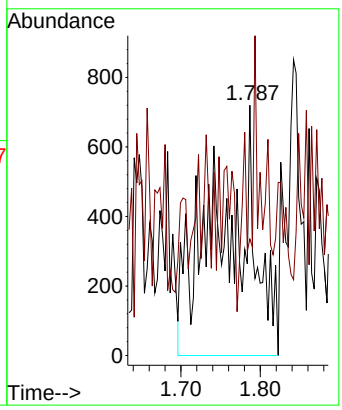


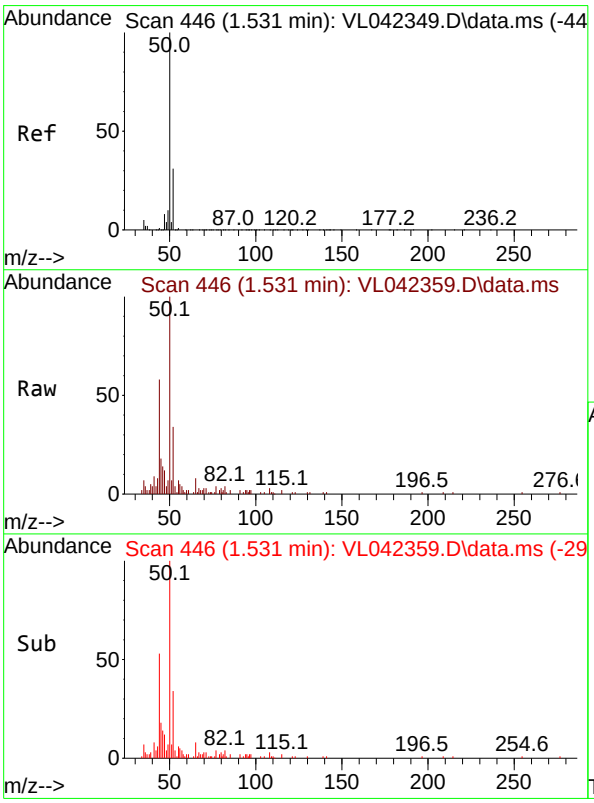

#3
Chlorodifluoromethane
Concen: 0.109 ppbv
RT: 1.787 min Scan# 5
Delta R.T. 0.311 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025

Tgt Ion: 51 Resp: 2267

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 23.0 | 16.2 | 24.4 |

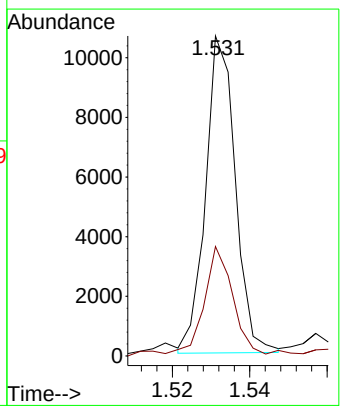


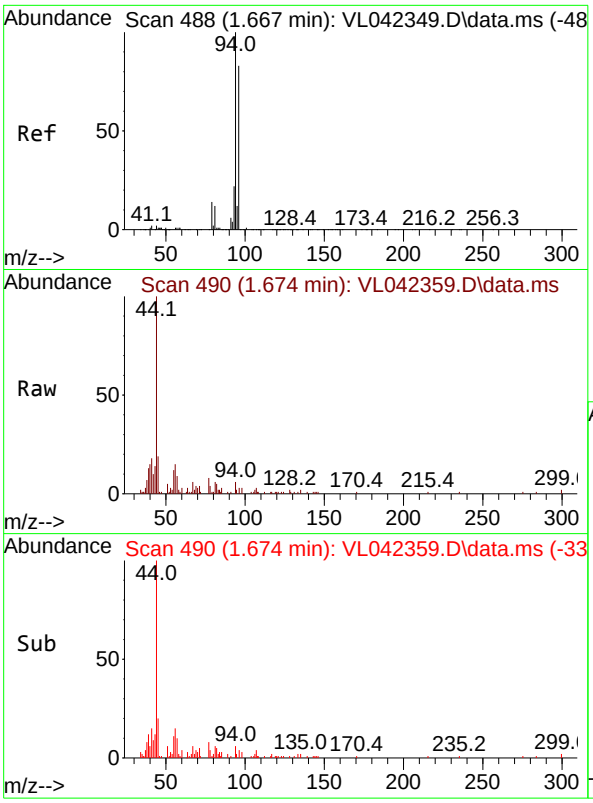




#4
Chloromethane
Concen: 0.657 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 50 Resp: 5667

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.3 | 24.7 | 37.1 |



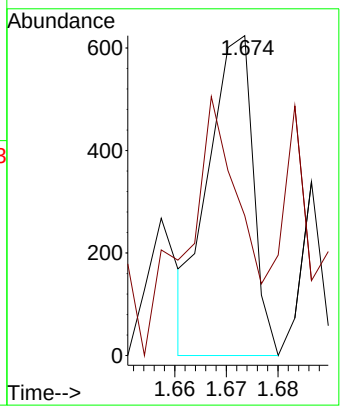


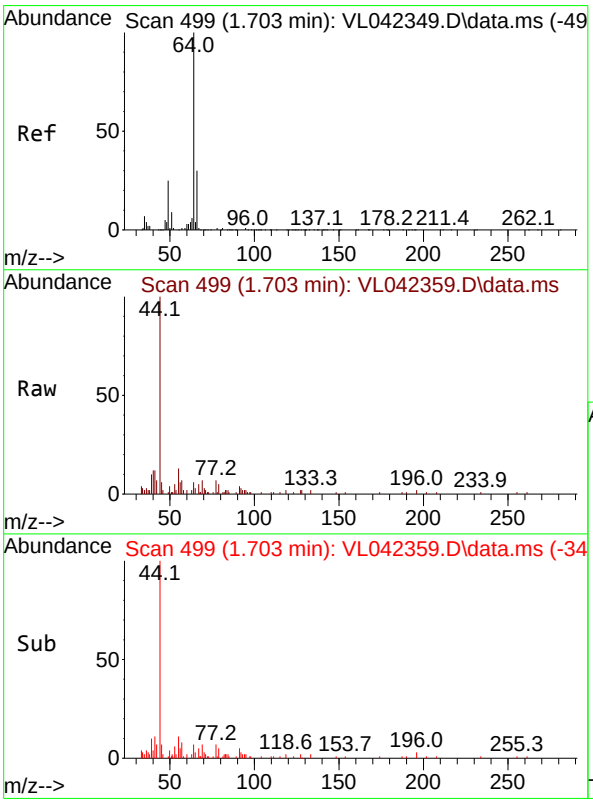

#6
Bromomethane
Concen: 0.093 ppbv
RT: 1.674 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025

Tgt Ion: 94 Resp: 376

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 13.9 | 66.2 | 99.2# |

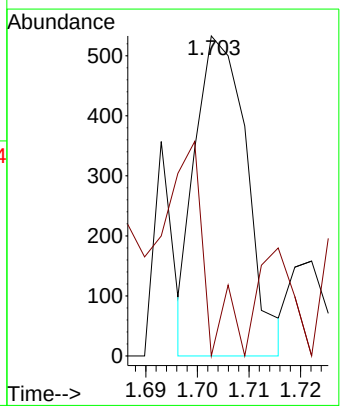


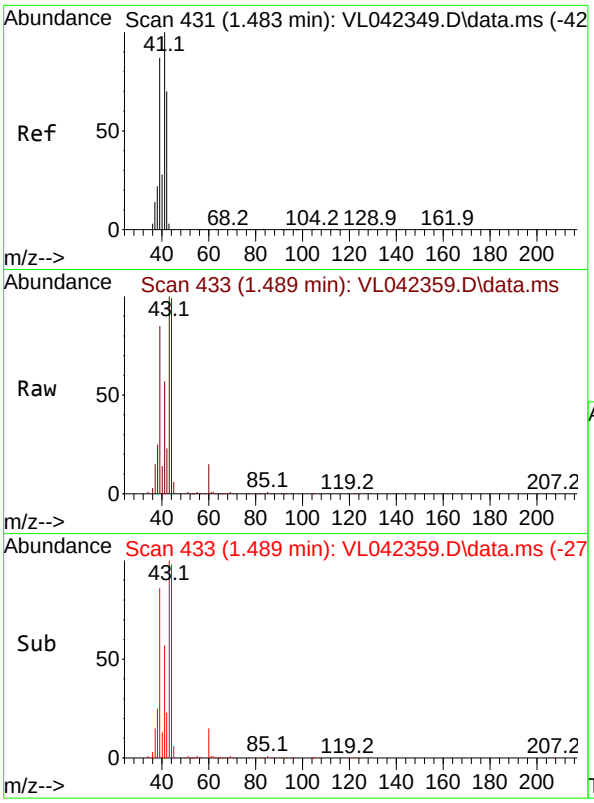




#7
Chloroethane
Concen: 0.109 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 64 Resp: 369

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 0.0 | 24.6 | 37.0# |



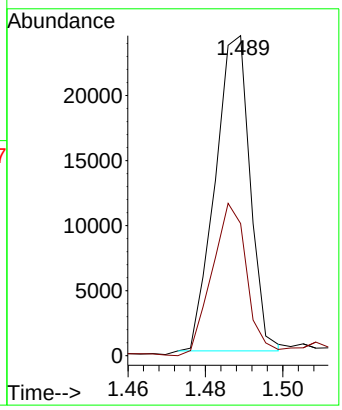


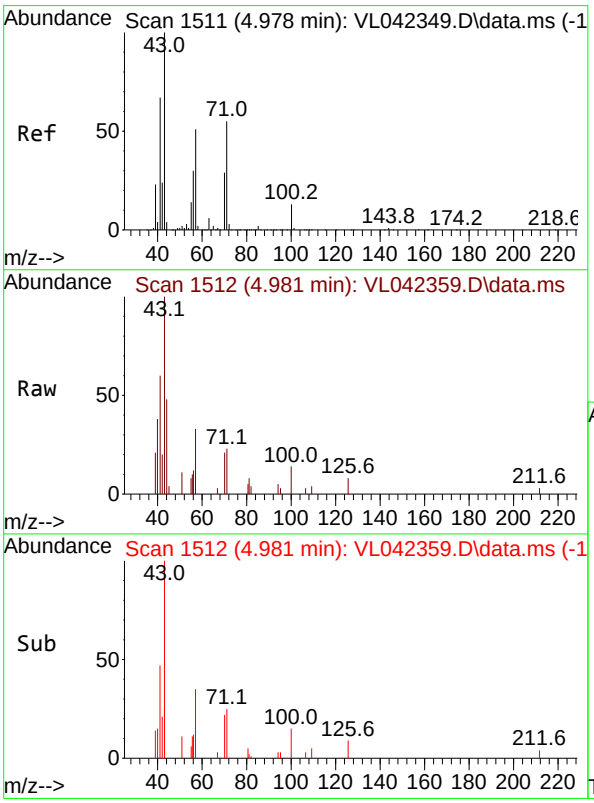

#9
Propene
Concen: 1.605 ppbv
RT: 1.489 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025

Tgt Ion: 41 Resp: 15185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 57.1 | 56.2 | 84.4 |

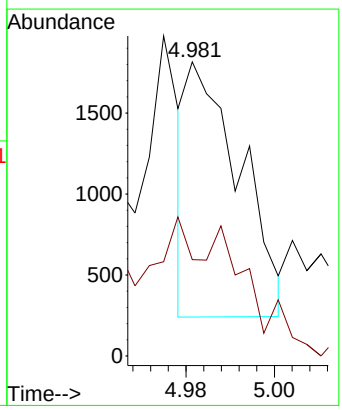


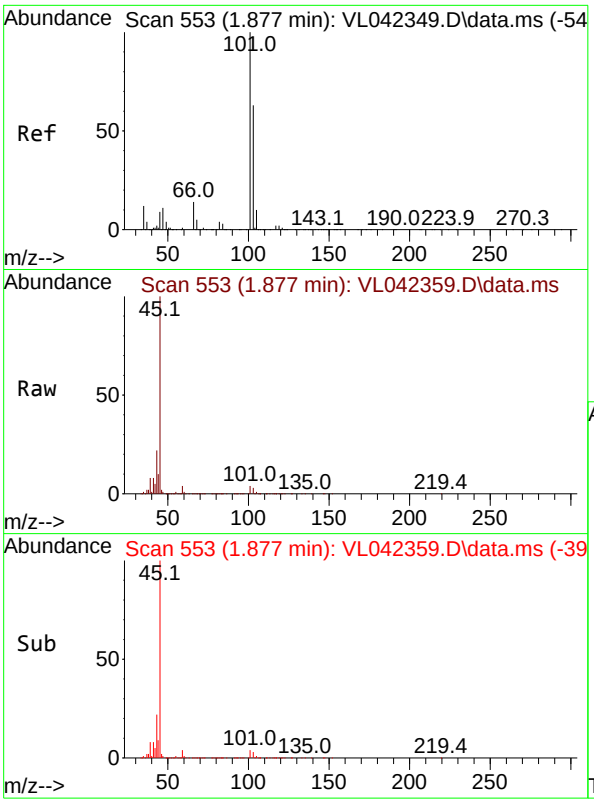




#10
Heptane
Concen: 0.050 ppbv
RT: 4.981 min Scan# 1512
Delta R.T. 0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 43 Resp: 1318

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 135.1 | 39.9 | 59.9# |



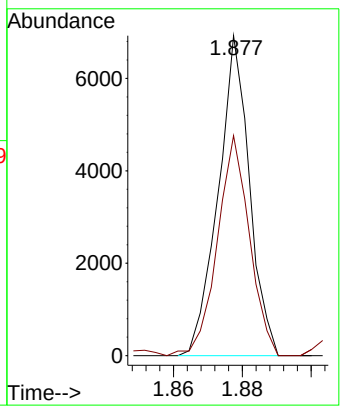


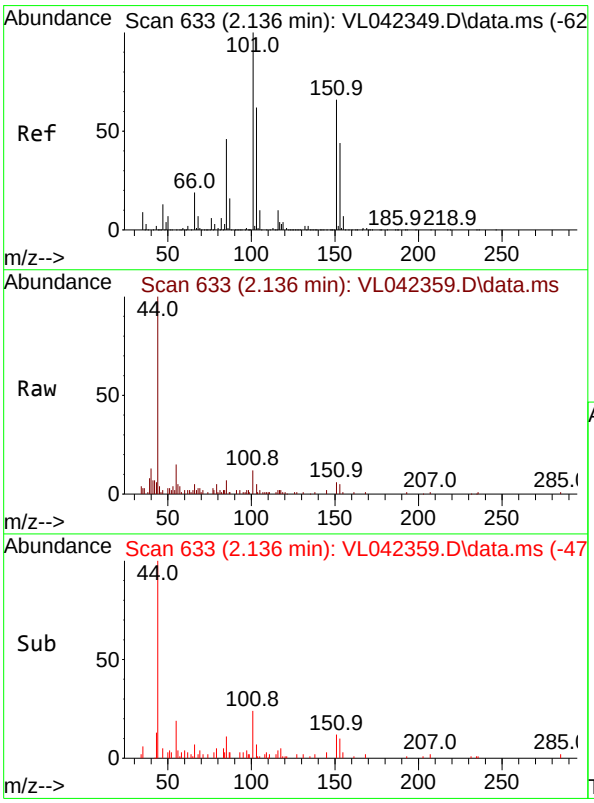

#11
Trichlorofluoromethane
Concen: 0.211 ppbv
RT: 1.877 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025

Tgt Ion:101 Resp: 4367

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 68.8 | 50.1 | 75.1 |

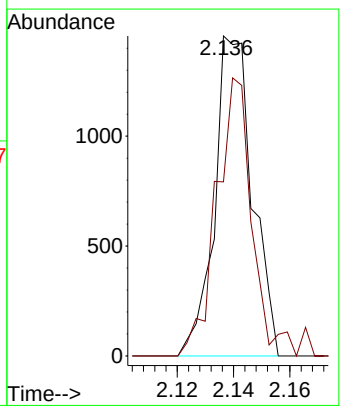


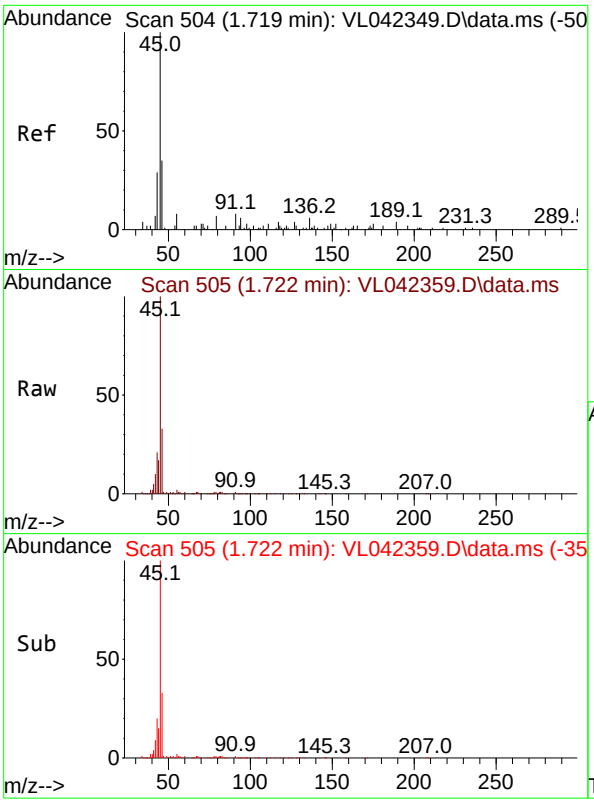




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.080 ppbv
RT: 2.136 min Scan# 633
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion:101 Resp: 1357

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 83.0 | 57.0 | 85.6 |



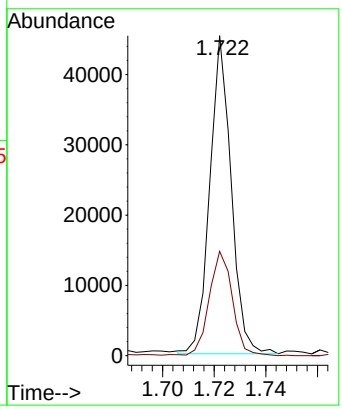


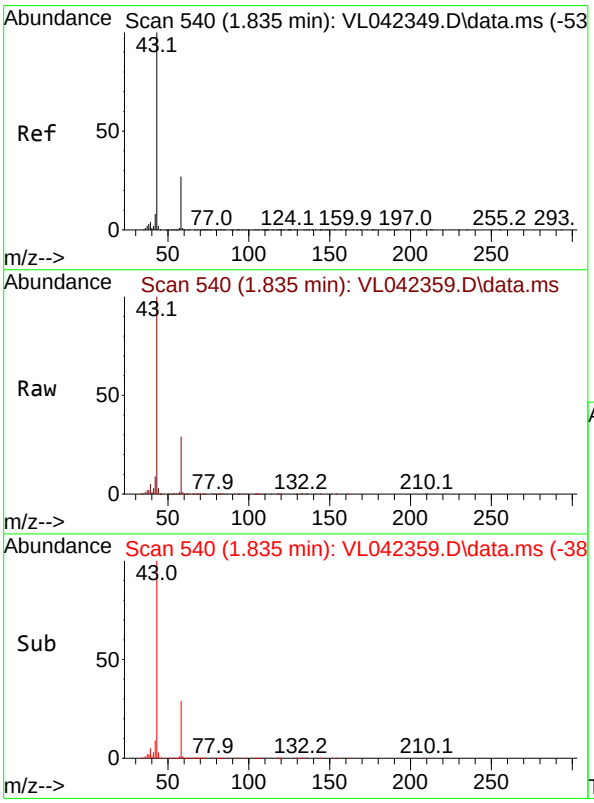

#13
Ethanol
Concen: 17.253 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025

Tgt Ion: 45 Resp: 25940

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 36.5 | 21.9 | 87.7 |

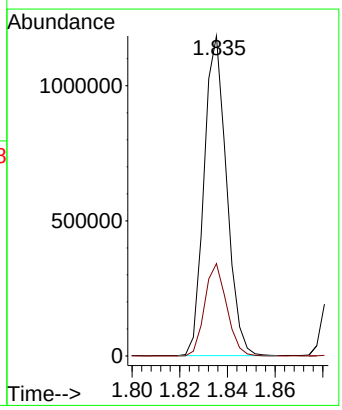


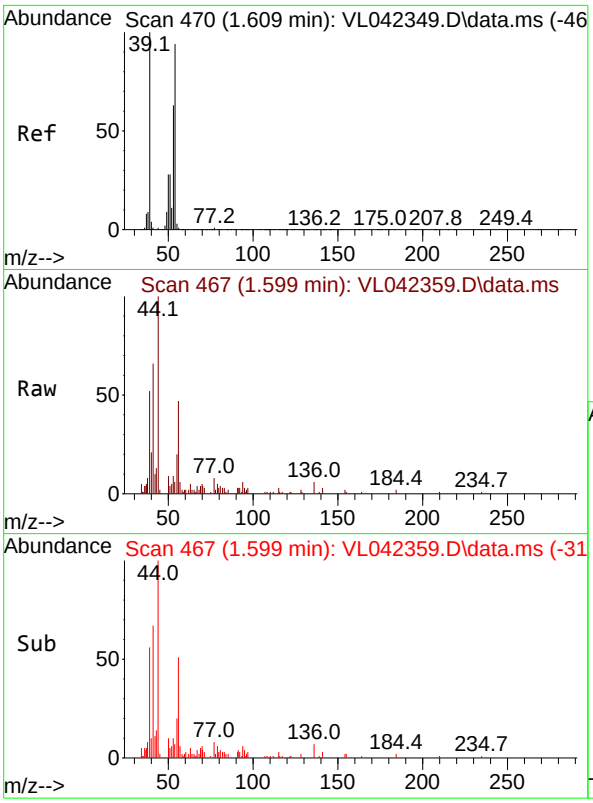




#15
Acetone
Concen: 38.385 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 43 Resp: 775779

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 28.3 | 22.4 | 33.6 |



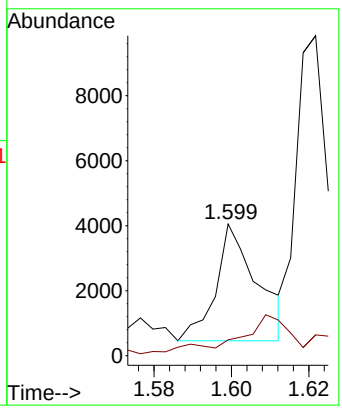


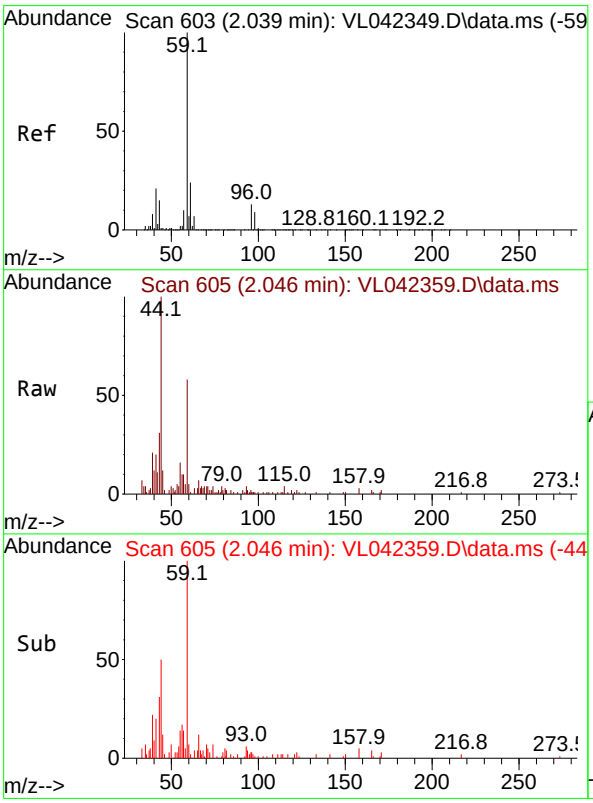

#16
1,3-Butadiene
Concen: 0.276 ppbv
RT: 1.599 min Scan# 4
Delta R.T. -0.010 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025

Tgt Ion: 39 Resp: 2667

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 59.2 | 64.9 | 97.3# |

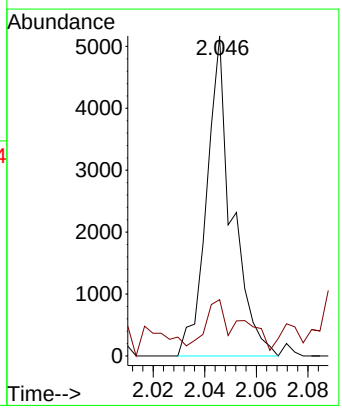


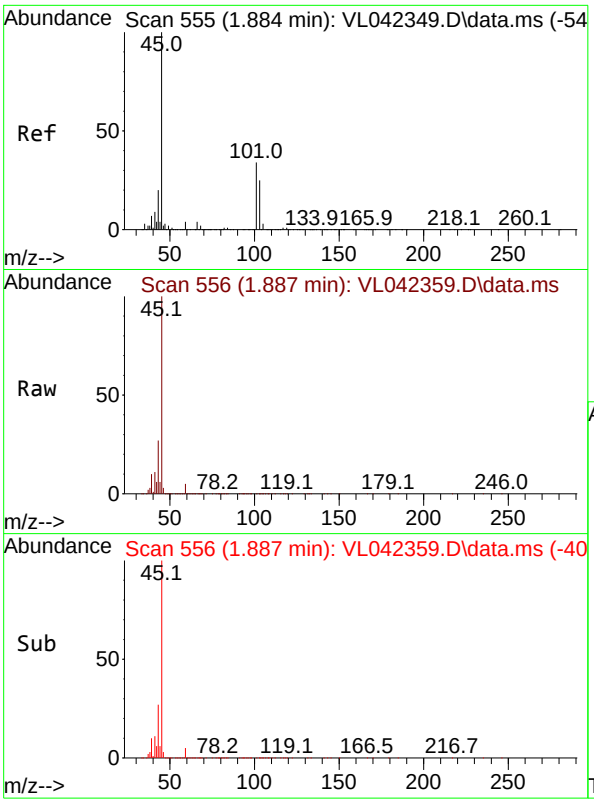




#17
tert-Butyl alcohol
Concen: 0.141 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.006 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 59 Resp: 3528

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 20.6 | 8.7 | 13.1# |



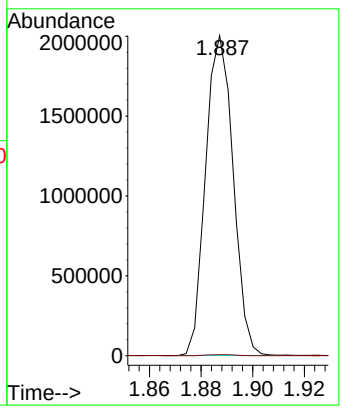


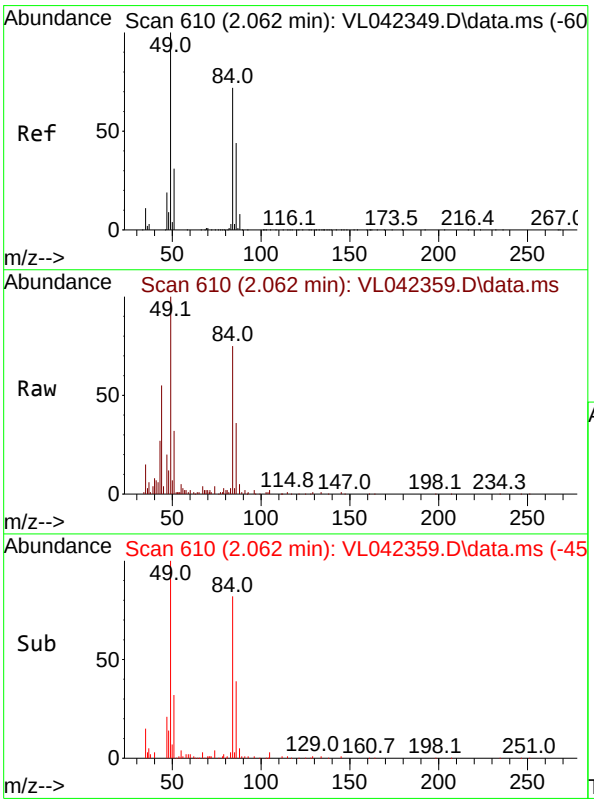

#19
Isopropyl Alcohol
Concen: 132.276 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025

Tgt Ion: 45 Resp: 1485068

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 14.8 | 34.5 | 51.7# |

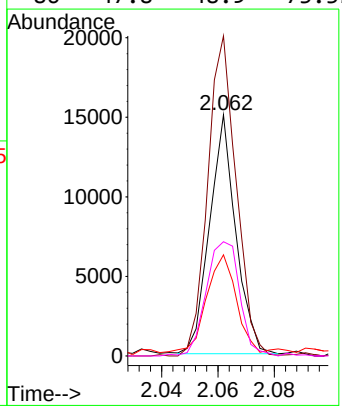


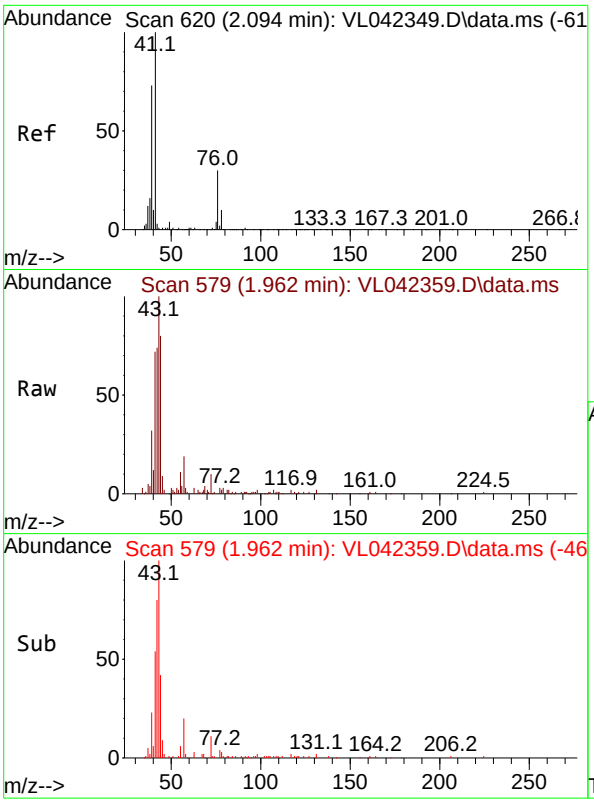




#20
Methylene Chloride
Concen: 1.228 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 84 Resp: 9718

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 134.0 | 111.6 | 167.4 |
| 51 | 39.7 | 35.1 | 52.7 |
| 86 | 47.8 | 48.9 | 73.3# |



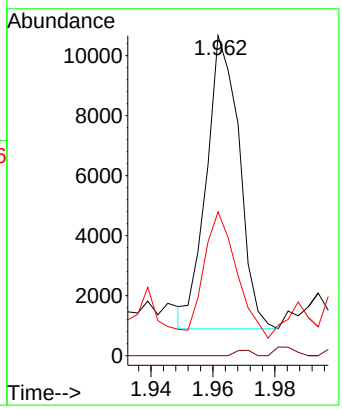


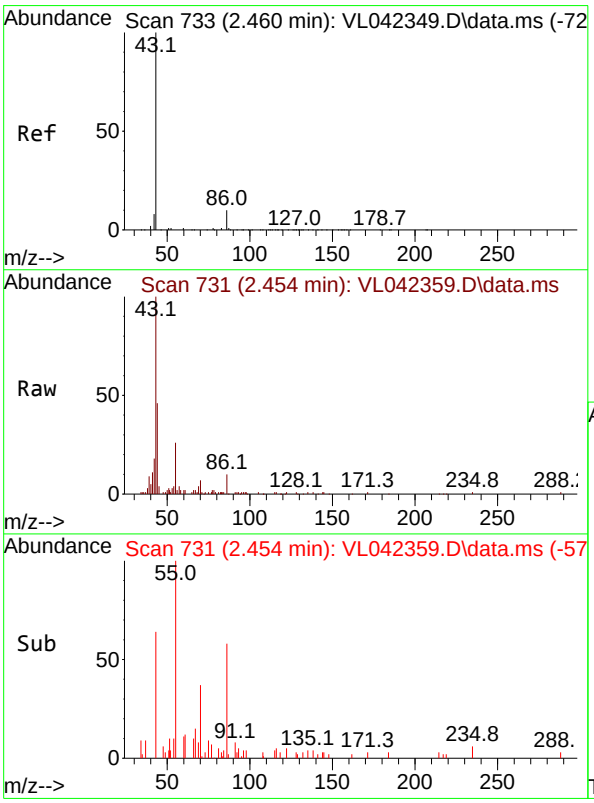

#21
Allyl Chloride
Concen: 0.514 ppbv
RT: 1.962 min Scan# 5
Delta R.T. -0.133 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025

Tgt Ion: 41 Resp: 7172

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 3.6 | 24.8 | 37.2# |
| 39 | 0.0 | 60.6 | 90.8# |

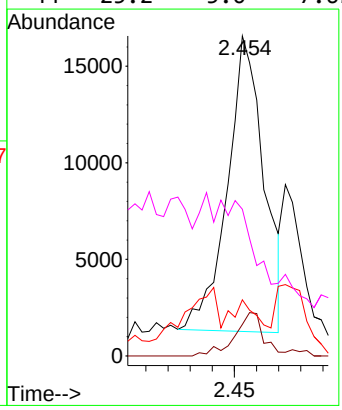


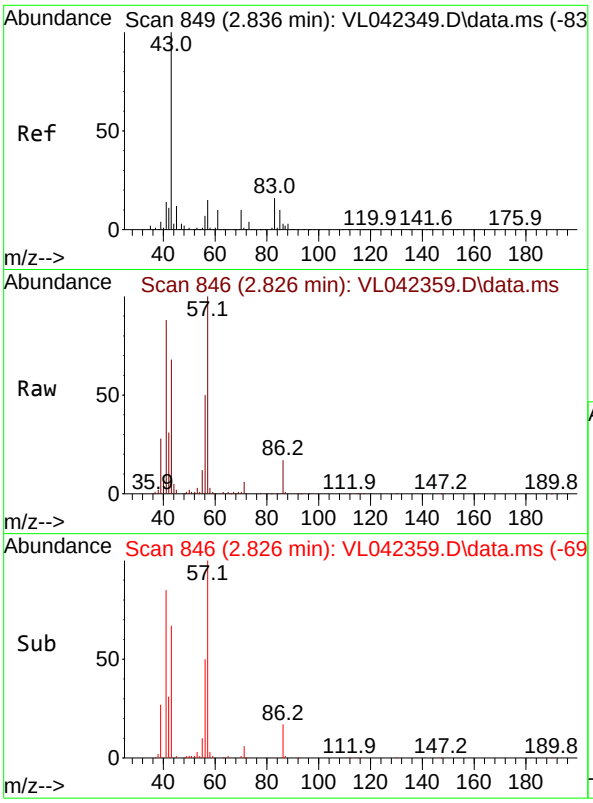




#23
Vinyl Acetate
Concen: 2.142 ppbv
RT: 2.454 min Scan# 731
Delta R.T. -0.006 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 43 Resp: 17524

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.8 | 6.5 | 9.7# |
| 42 | 9.4 | 7.8 | 11.8 |
| 44 | 25.2 | 5.0 | 7.6# |



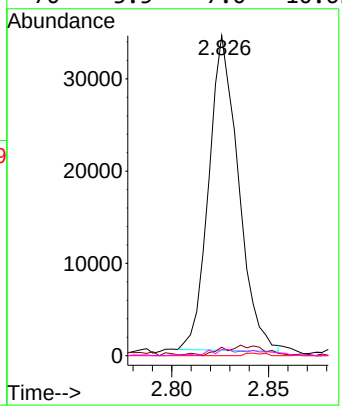


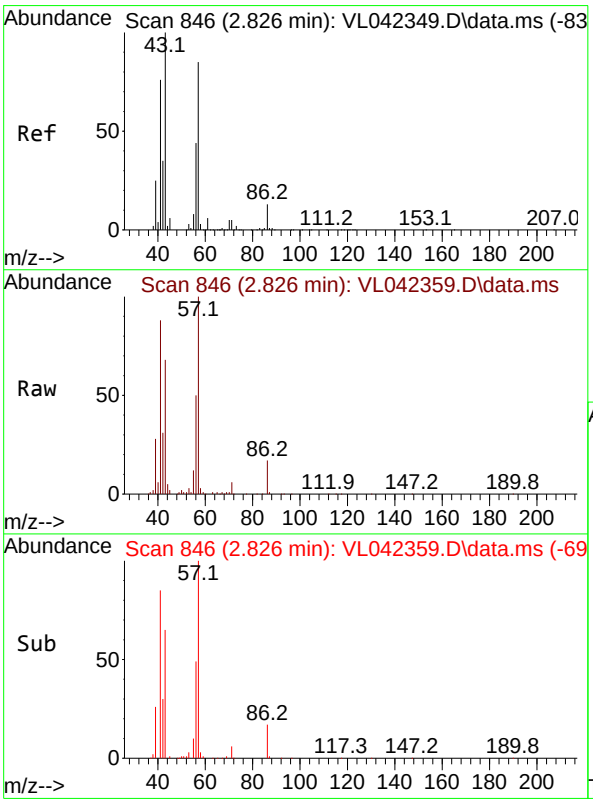

#25
Ethyl Acetate
Concen: 0.729 ppbv
RT: 2.826 min Scan# 84
Delta R.T. -0.010 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025

Tgt Ion: 43 Resp: 36321

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 5.5 | 8.3 | 12.5# |
| 61 | 0.5 | 7.3 | 10.9# |
| 70 | 3.5 | 7.0 | 10.6# |

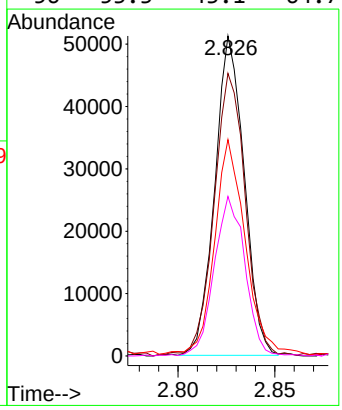


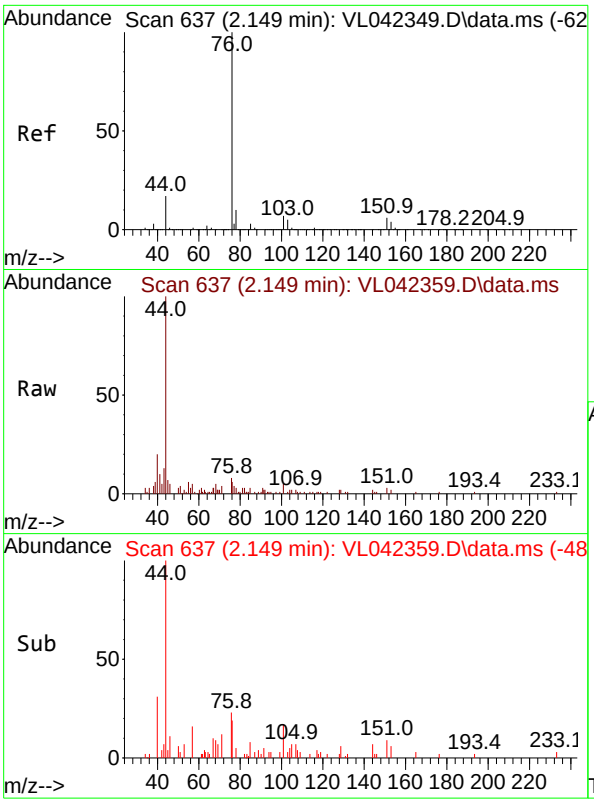




#26
Hexane
Concen: 2.683 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 57 Resp: 54108

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 93.4 | 77.9 | 116.9 |
| 43 | 70.0 | 208.4 | 312.6# |
| 56 | 53.3 | 43.1 | 64.7 |



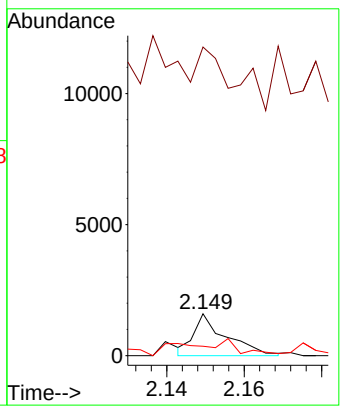


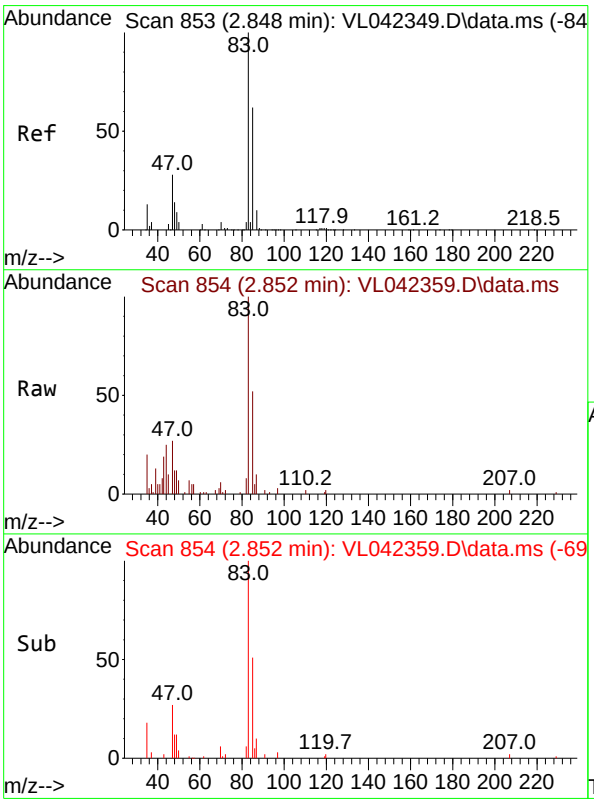

#27
Carbon Disulfide
Concen: 0.043 ppbv
RT: 2.149 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025

Tgt Ion: 76 Resp: 930

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 0.0 | 15.5 | 23.3# |
| 78 | 84.5 | 9.3 | 13.9# |

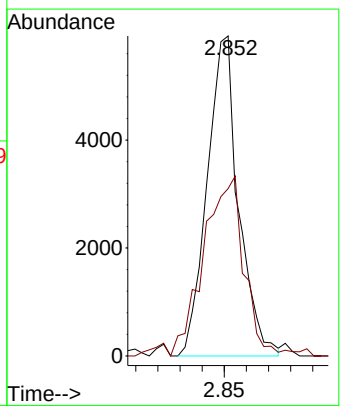


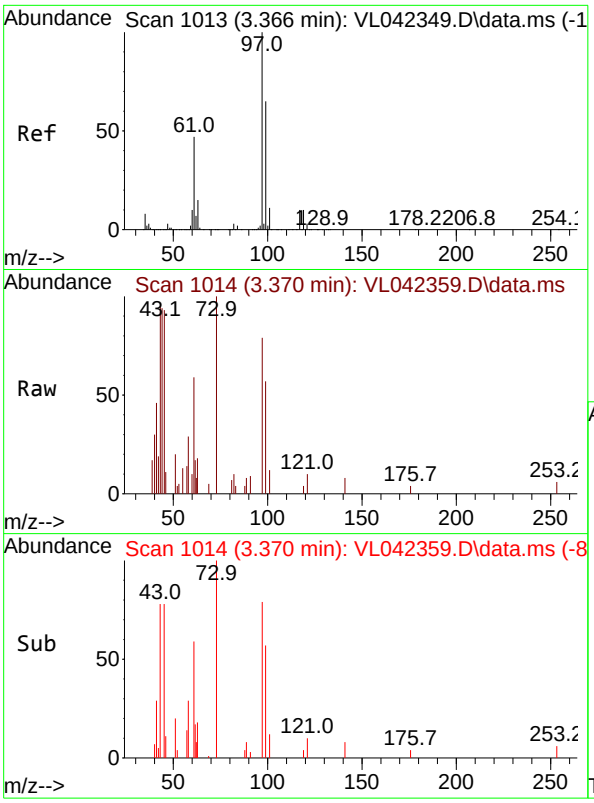




#29
Chloroform
Concen: 0.205 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 83 Resp: 5846

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 51.1 | 50.0 | 75.0 |



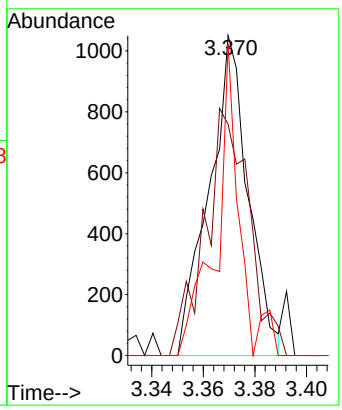


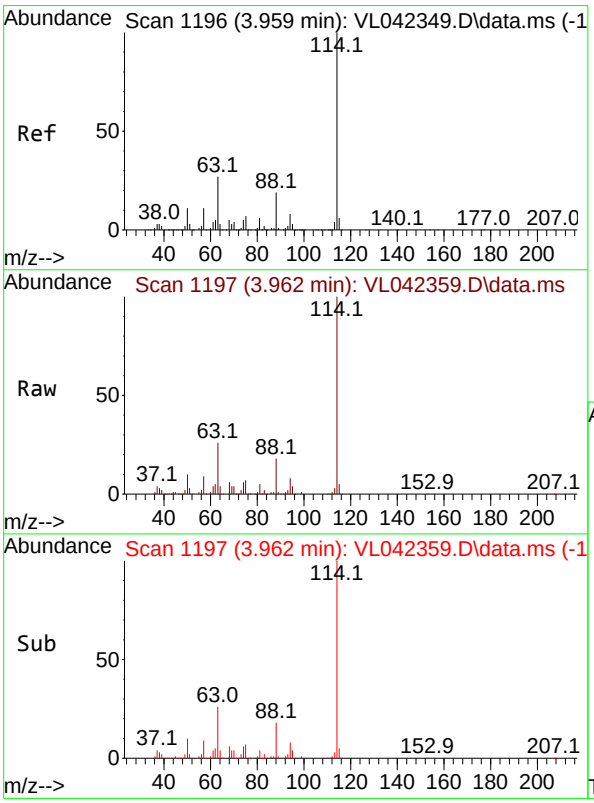

#32
1,1,1-Trichloroethane
Concen: 0.034 ppbv
RT: 3.370 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025

Tgt Ion: 97 Resp: 1105

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 86.6 | 51.0 | 76.4# |
| 61 | 58.4 | 38.8 | 58.2# |

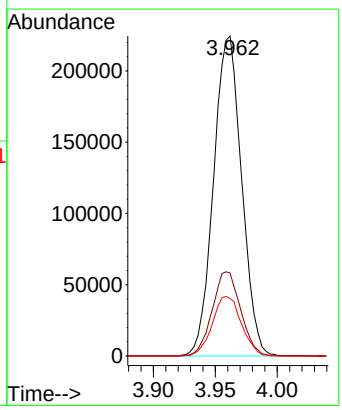


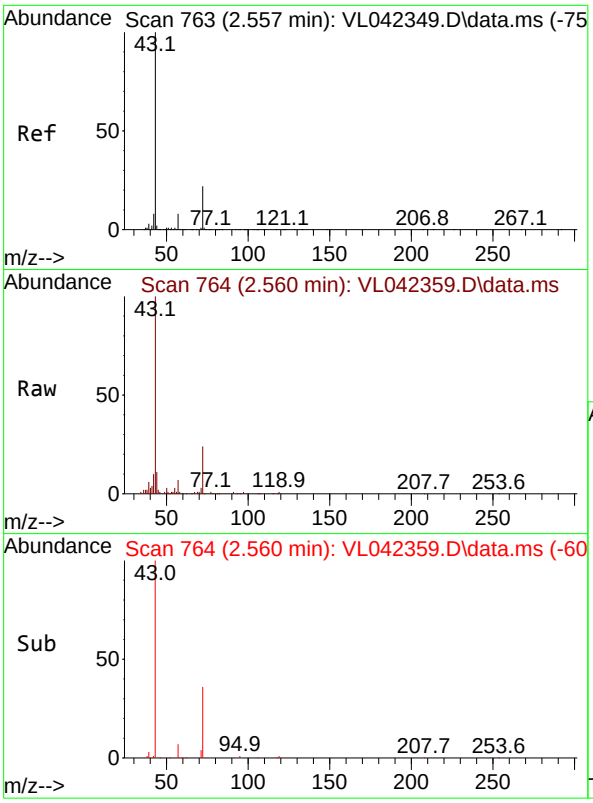




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion:114 Resp: 354157

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 26.6 | 21.8 | 32.6 |
| 88 | 19.2 | 15.5 | 23.3 |



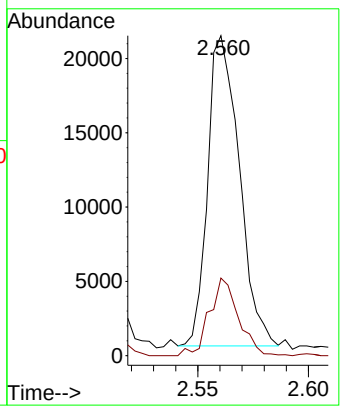


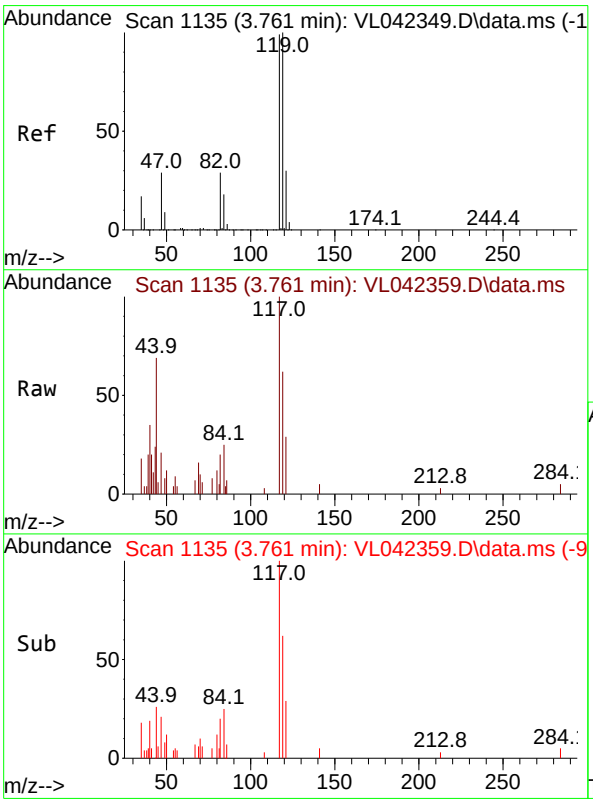

#34
2-Butanone
Concen: 0.739 ppbv
RT: 2.560 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025

Tgt Ion: 43 Resp: 20685

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 23.5 | 18.2 | 27.2 |

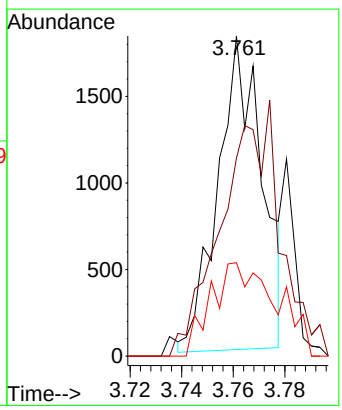


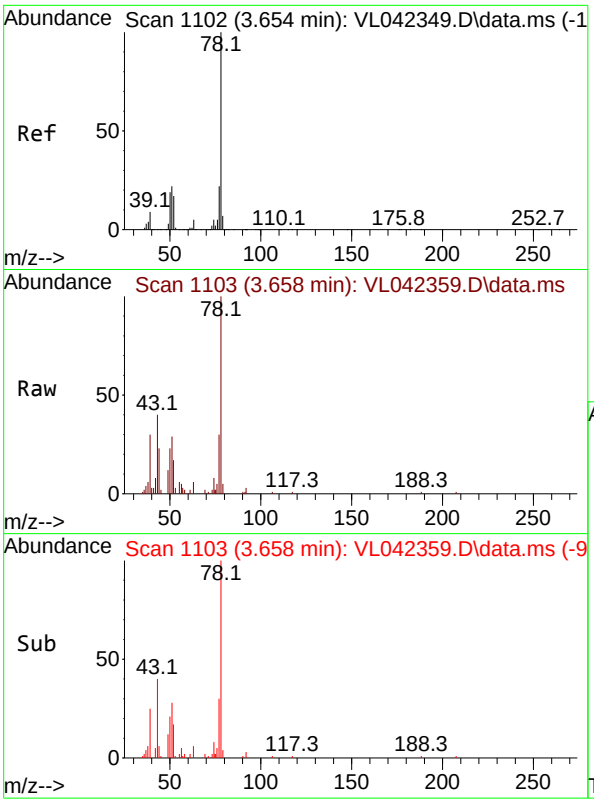




#35
Carbon Tetrachloride
Concen: 0.067 ppbv
RT: 3.761 min Scan# 1135
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion:117 Resp: 2133

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 57.3 | 80.5 | 120.7# |
| 121 | 30.5 | 24.2 | 36.2 |



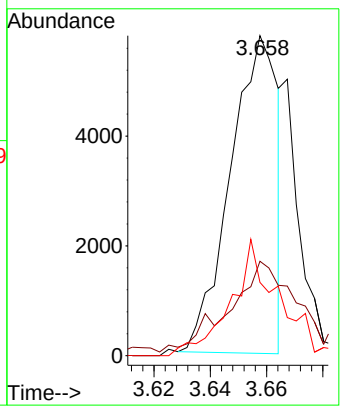


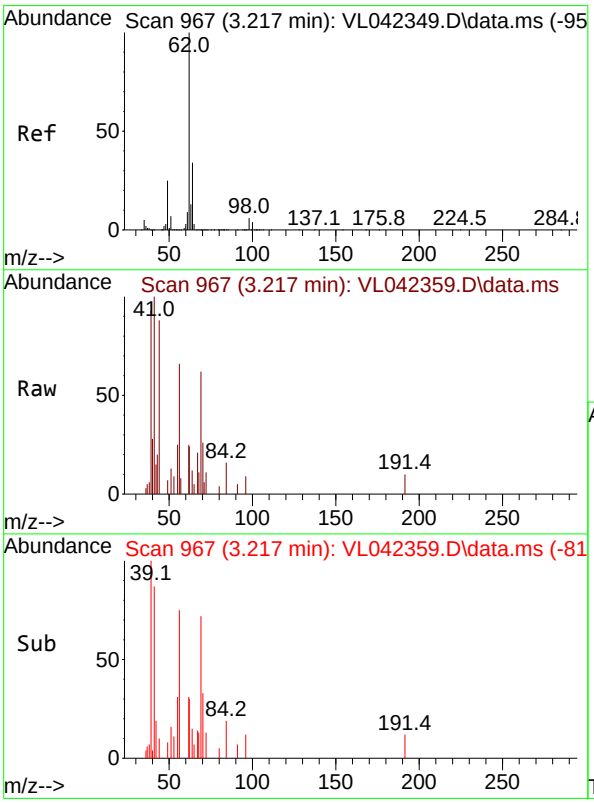

#36
Benzene
Concen: 0.176 ppbv
RT: 3.658 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025

Tgt Ion: 78 Resp: 6728

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 27.2 | 17.4 | 26.0# |
| 50 | 20.8 | 15.5 | 23.3 |

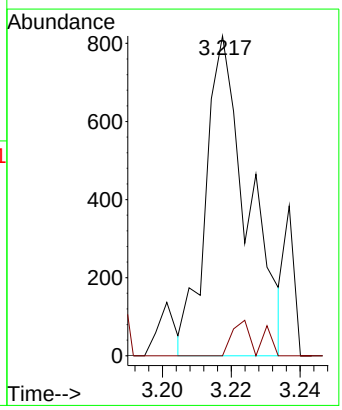


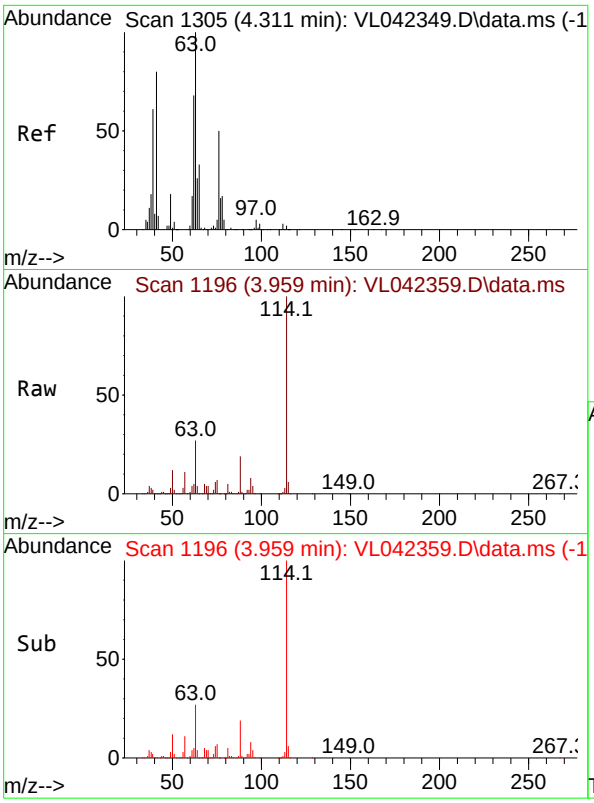




#37
1,2-Dichloroethane
Concen: 0.030 ppbv
RT: 3.217 min Scan# 967
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 62 Resp: 697

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 6.6 | 5.1 | 7.7 |



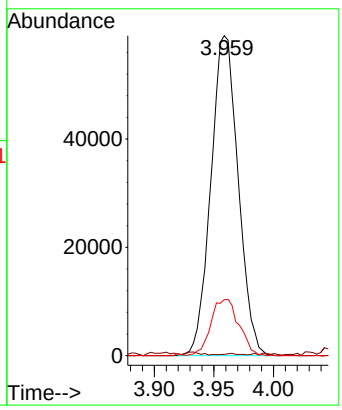


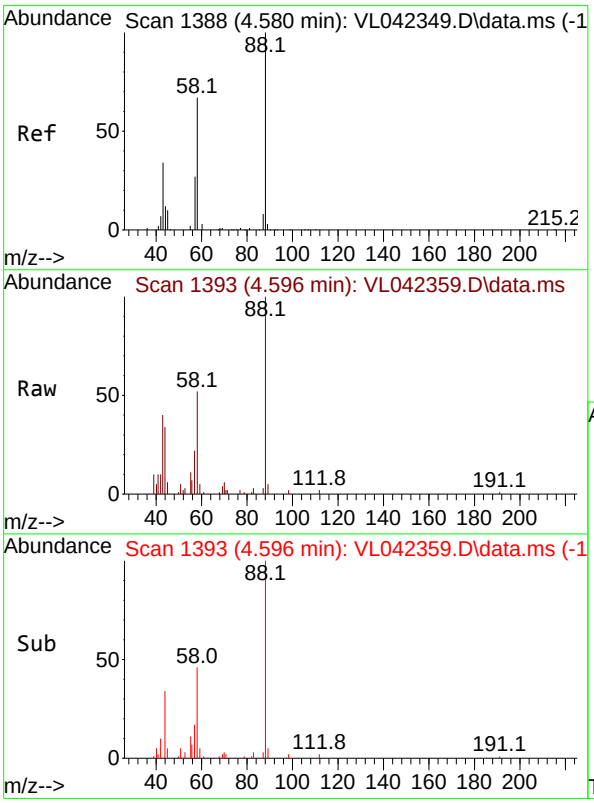

#39
1,2-Dichloropropane
Concen: 6.626 ppbv
RT: 3.959 min Scan# 1
Delta R.T. -0.353 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025

Tgt Ion: 63 Resp: 94322

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 0.1 | 64.2 | 96.2# |
| 62 | 17.5 | 54.3 | 81.5# |

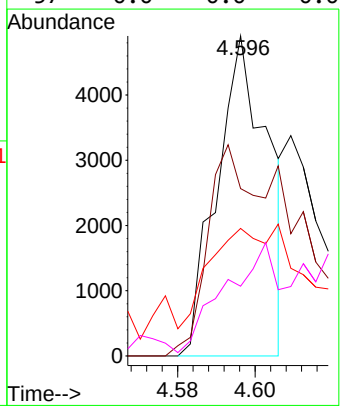


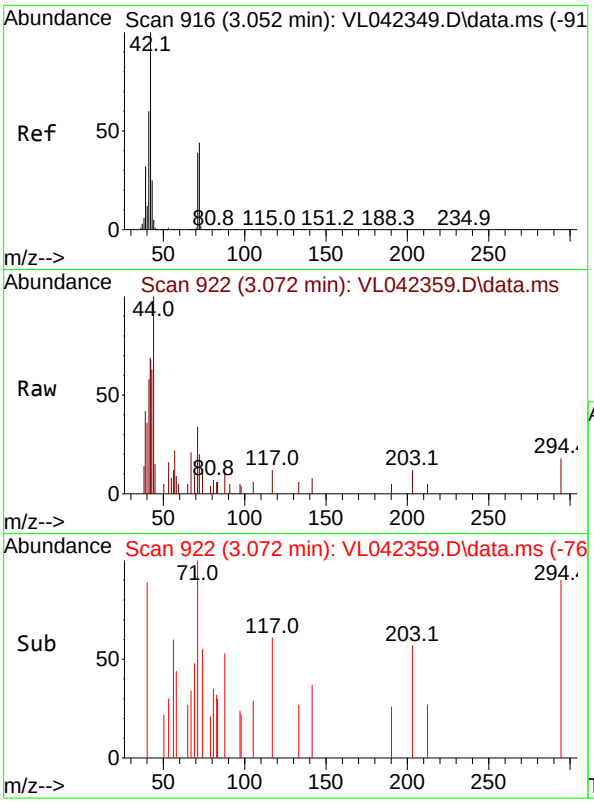




#40
1,4-Dioxane
Concen: 0.575 ppbv
RT: 4.596 min Scan# 1393
Delta R.T. 0.016 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 88 Resp: 4501

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 140.6 | 61.4 | 92.0# |
| 43 | 5.9 | 23.2 | 34.8# |
| 57 | 0.0 | 0.0 | 0.0 |



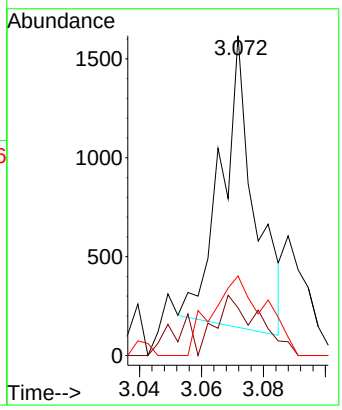


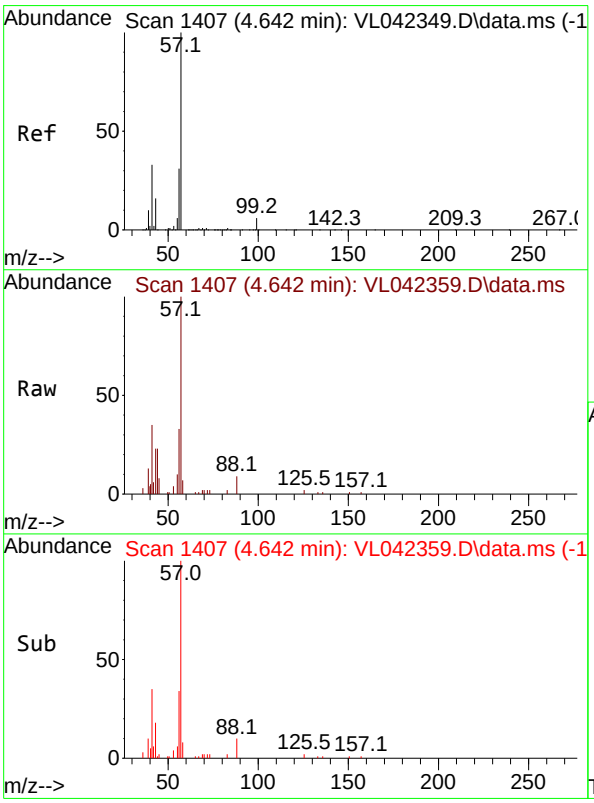

#41
Tetrahydrofuran
Concen: 0.067 ppbv
RT: 3.072 min Scan# 9
Delta R.T. 0.019 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025

Tgt Ion: 42 Resp: 1092

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 35.8 | 32.3 | 48.5 |
| 71 | 46.2 | 31.4 | 47.2 |

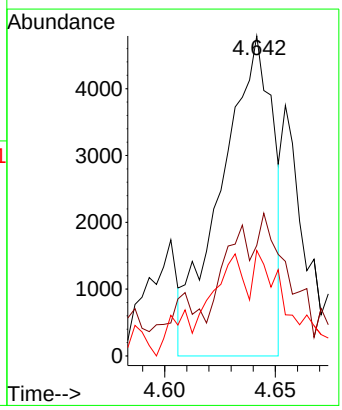


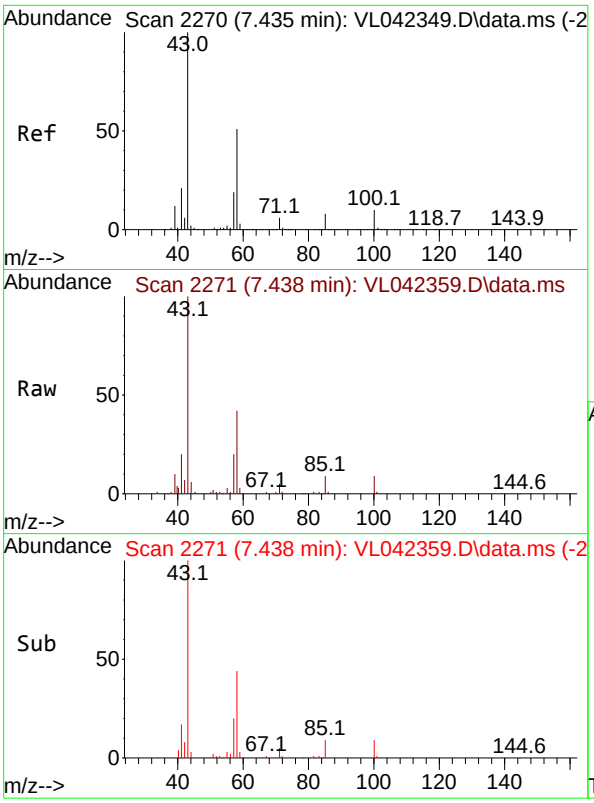




#44
2,2,4-Trimethylpentane
Concen: 0.118 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 57 Resp: 7803

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 60.9 | 27.2 | 40.8# |
| 56 | 54.8 | 25.7 | 38.5# |



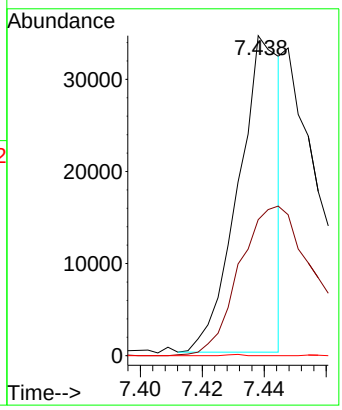


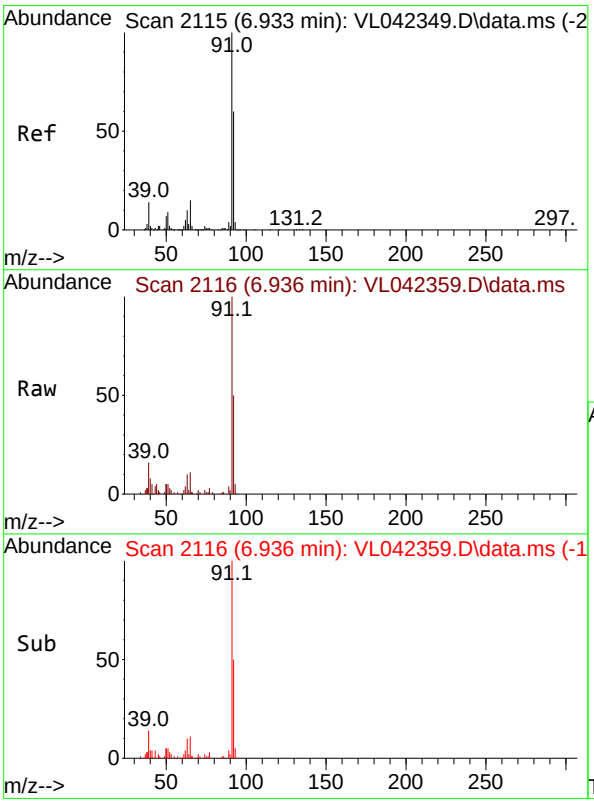

#51
2-Hexanone
Concen: 0.761 ppbv
RT: 7.438 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025

Tgt Ion: 43 Resp: 31778

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 0.0 | 40.2 | 60.4# |
| 98 | 0.0 | 0.1 | 0.1# |

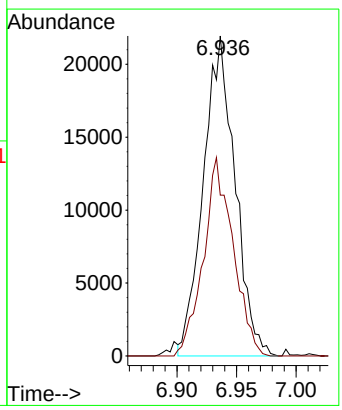


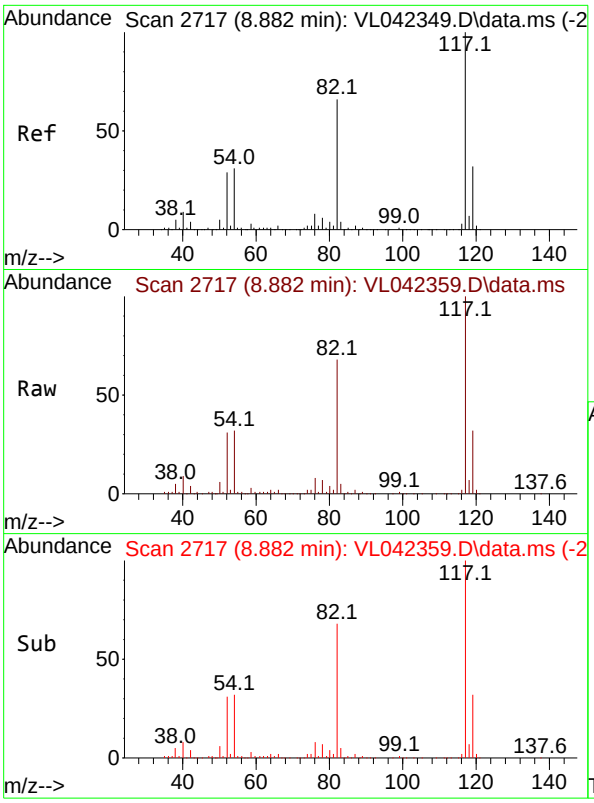




#53
Toluene
Concen: 0.884 ppbv
RT: 6.936 min Scan# 2116
Delta R.T. 0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 91 Resp: 40500

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 58.2 | 48.2 | 72.4 |



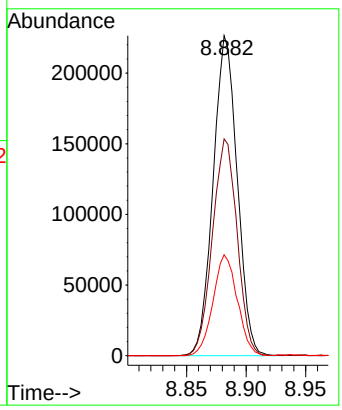


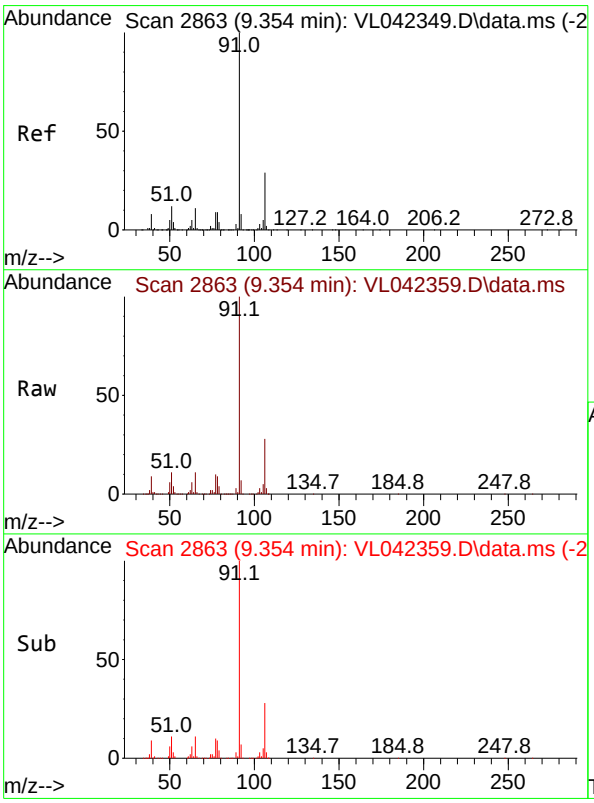

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025

Tgt Ion:117 Resp: 318284

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 69.4 | 57.8 | 86.6 |
| 119 | 31.8 | 25.2 | 37.8 |

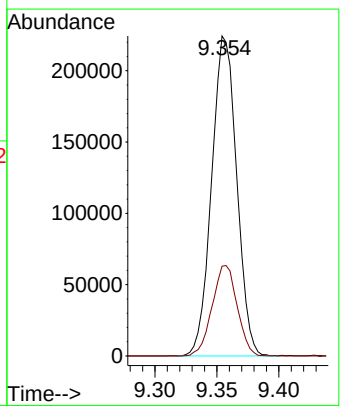


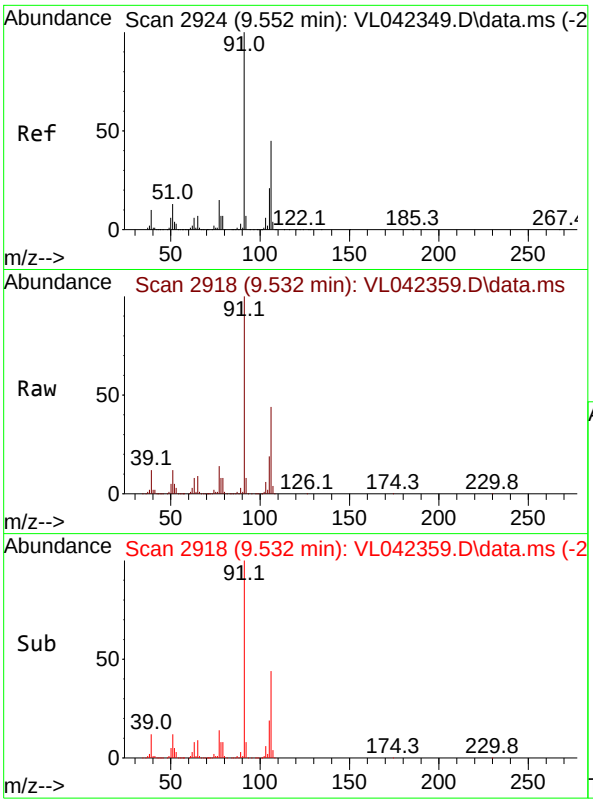




#58
Ethyl Benzene
Concen: 5.010 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 91 Resp: 315931

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 28.1 | 23.0 | 34.4 |



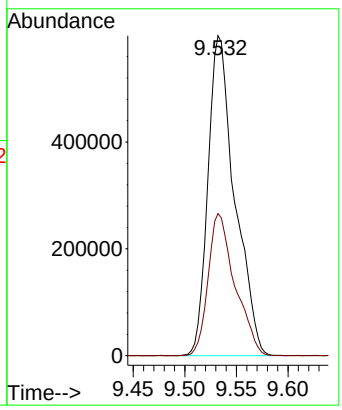


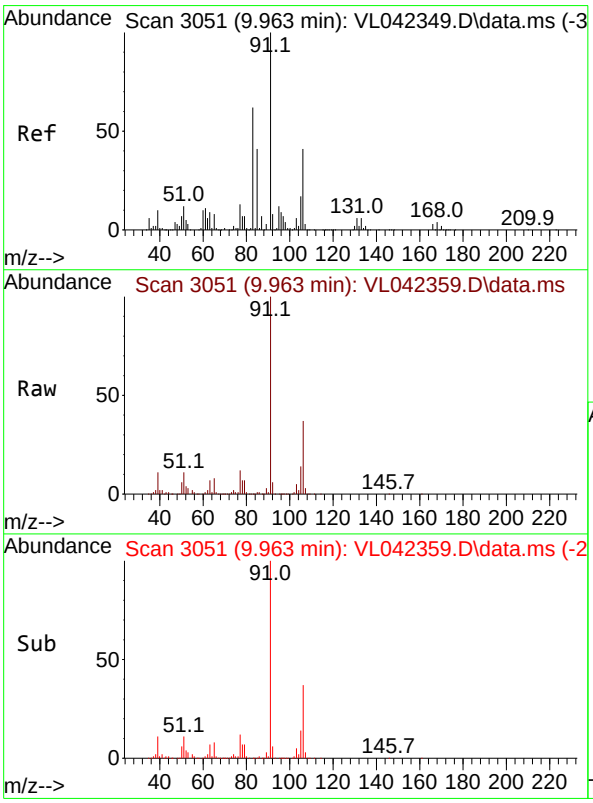

#59
m/p-Xylene
Concen: 21.313 ppbv
RT: 9.532 min Scan# 2
Delta R.T. -0.019 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025

Tgt Ion: 91 Resp: 1082733

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 44.4 | 35.4 | 53.2 |

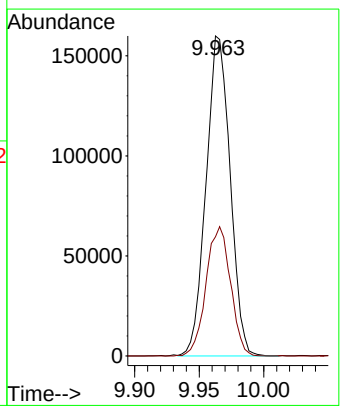


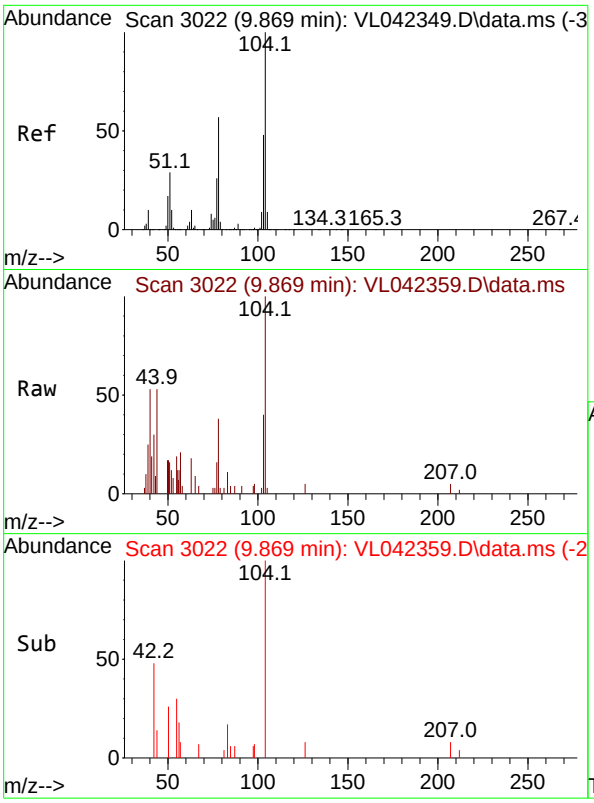




#60
o-Xylene
Concen: 4.051 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 91 Resp: 207265

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 41.1 | 21.1 | 63.4 |



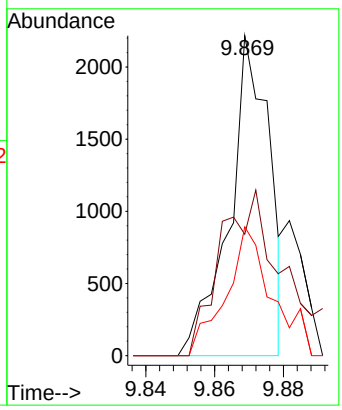


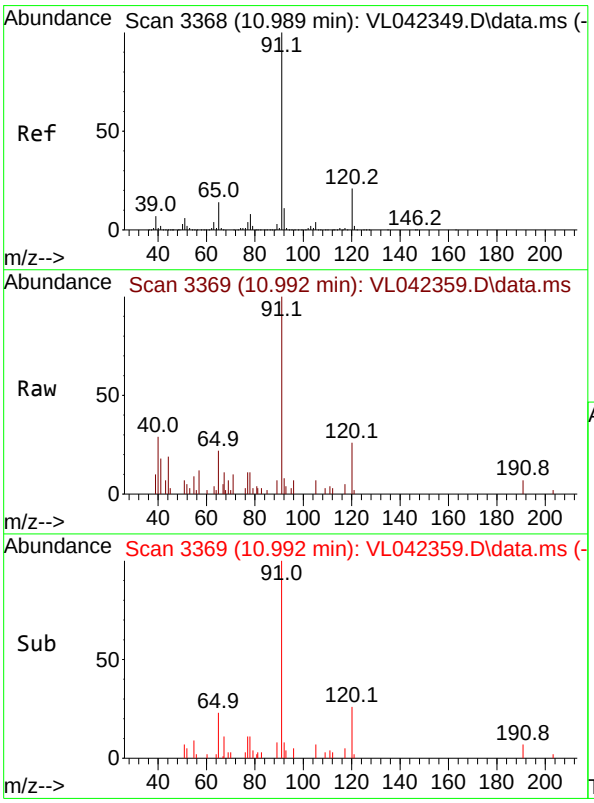

#61
Styrene
Concen: 0.073 ppbv
RT: 9.869 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025

Tgt Ion:104 Resp: 1788

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 0.0 | 44.6 | 66.8# |
| 103 | 0.0 | 37.4 | 56.0# |

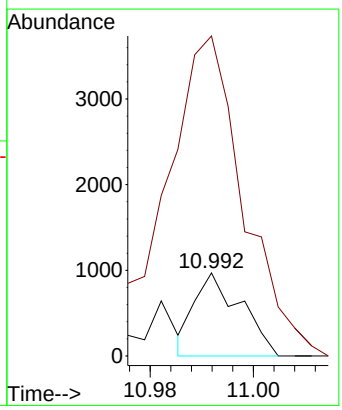


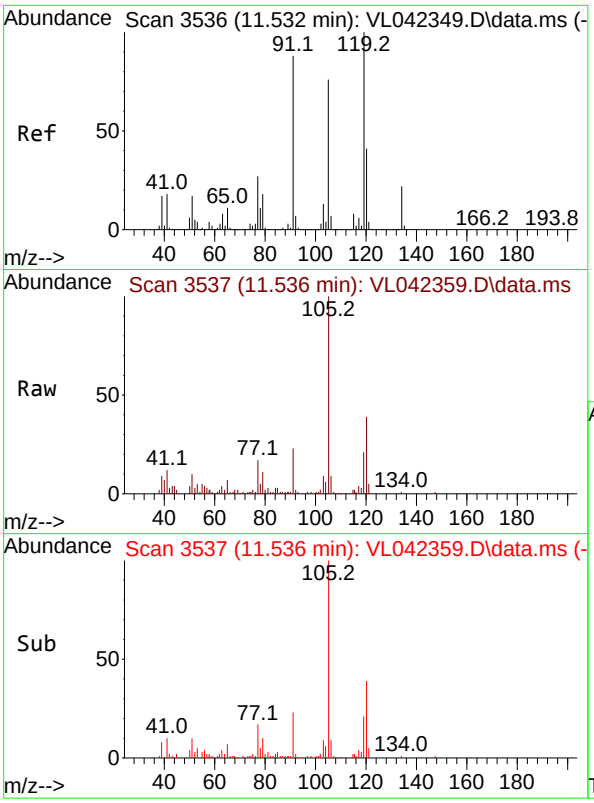




#64
n-propylbenzene
Concen: 0.032 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion:120 Resp: 602

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 715.9 | 392.4 | 588.6# |



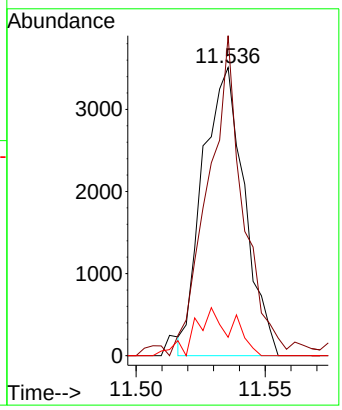


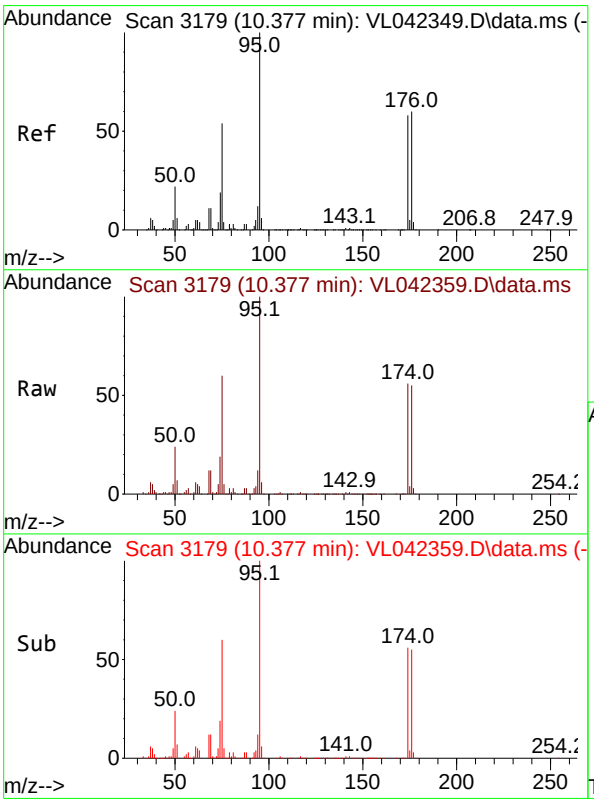

#65
tert-Butylbenzene
Concen: 0.057 ppbv
RT: 11.536 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025

Tgt Ion:119 Resp: 3938

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 98.7 | 74.6 | 111.8 |
| 134 | 15.2 | 18.8 | 28.2# |

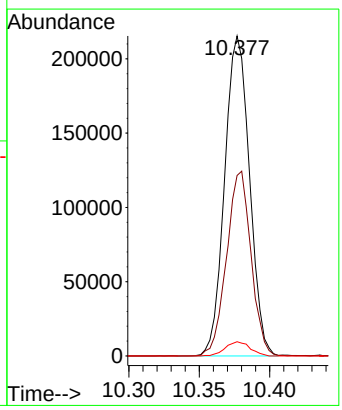


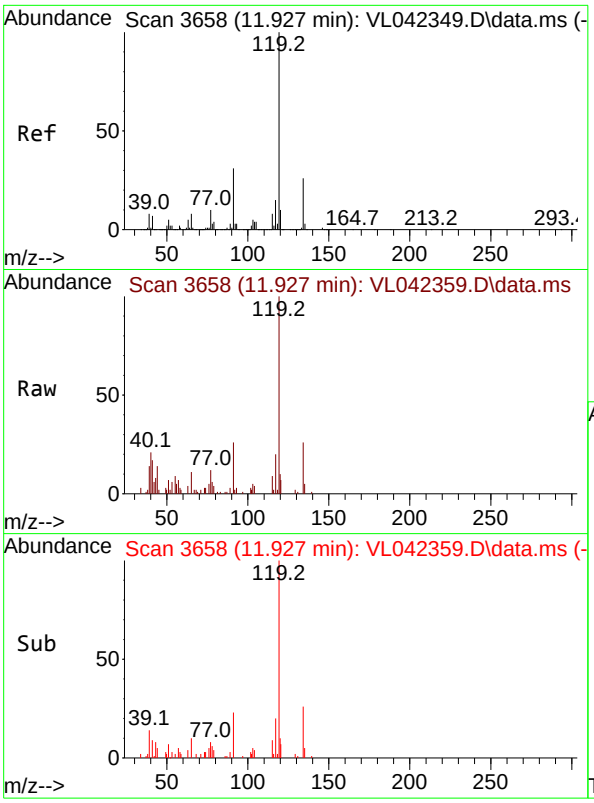




#68
1-Bromo-4-Fluorobenzene
Concen: 10.142 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 95 Resp: 265265

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 56.8 | 48.5 | 72.7 |
| 175 | 4.4 | 3.7 | 5.5 |



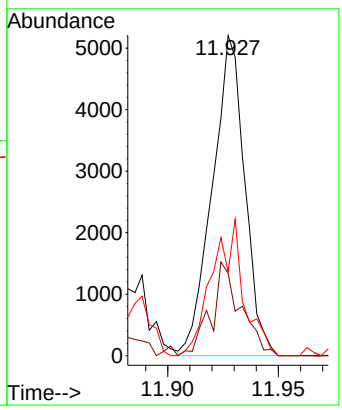


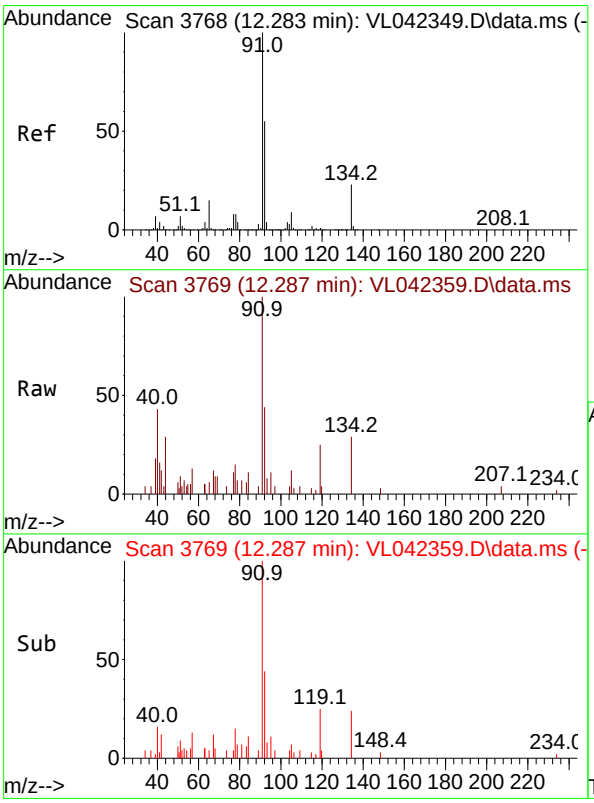

#69
p-Isopropyltoluene
Concen: 0.063 ppbv
RT: 11.927 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025

Tgt Ion:119 Resp: 5290

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.7 | 20.0 | 30.0 |
| 91 | 42.6 | 24.4 | 36.6# |

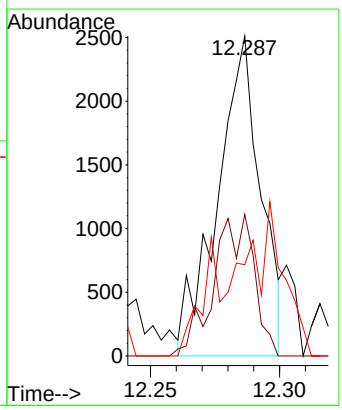


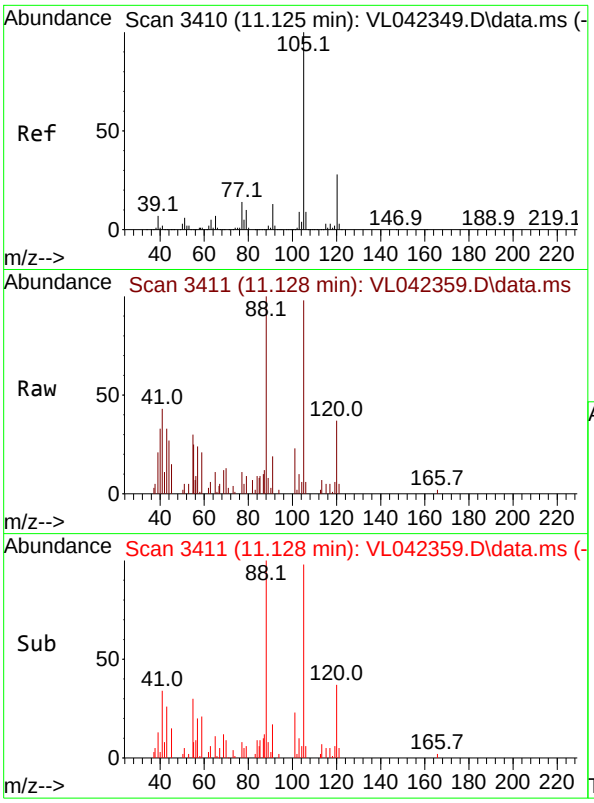




#70
n-Butylbenzene
Concen: 0.034 ppbv
RT: 12.287 min Scan# 3769
Delta R.T. 0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion: 91 Resp: 2923

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 41.2 | 44.2 | 66.4# |
| 134 | 0.0 | 18.2 | 27.4# |



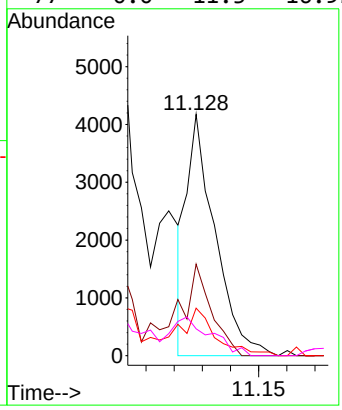


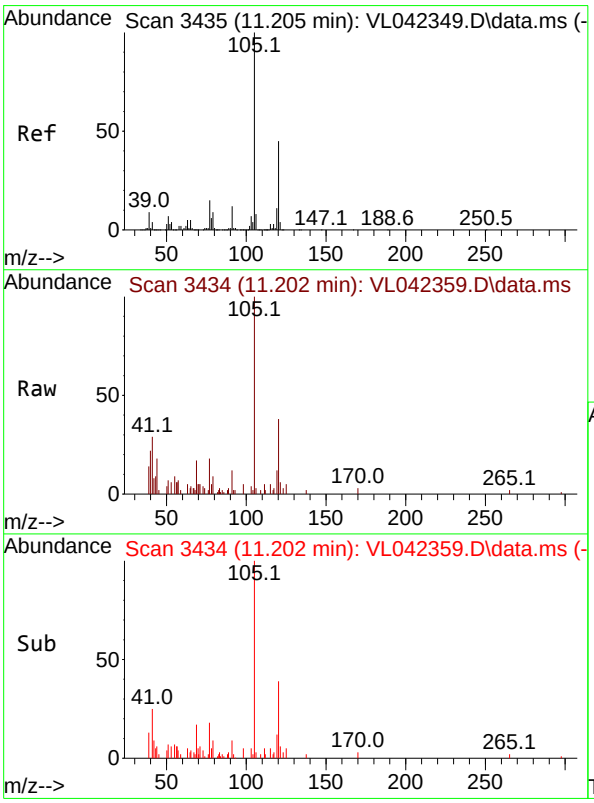

#72
4-Ethyltoluene
Concen: 0.047 ppbv
RT: 11.128 min Scan# 34
Delta R.T. 0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025

Tgt Ion:105 Resp: 2922

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 0.0 | 23.2 | 34.8# |
| 91 | 0.0 | 10.4 | 15.6# |
| 77 | 0.0 | 11.3 | 16.9# |

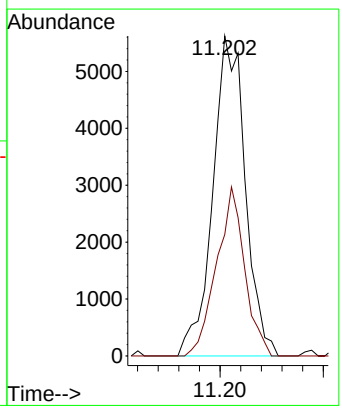


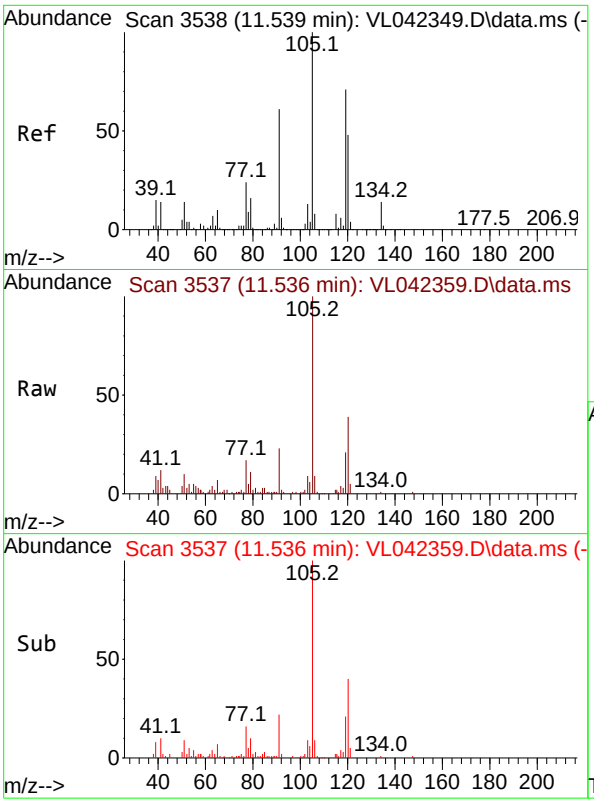




#73
1,3,5-Trimethylbenzene
Concen: 0.111 ppbv
RT: 11.202 min Scan# 3434
Delta R.T. -0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion:105 Resp: 6133

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 38.0 | 35.6 | 53.4 |



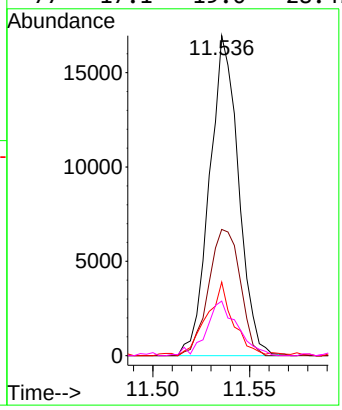


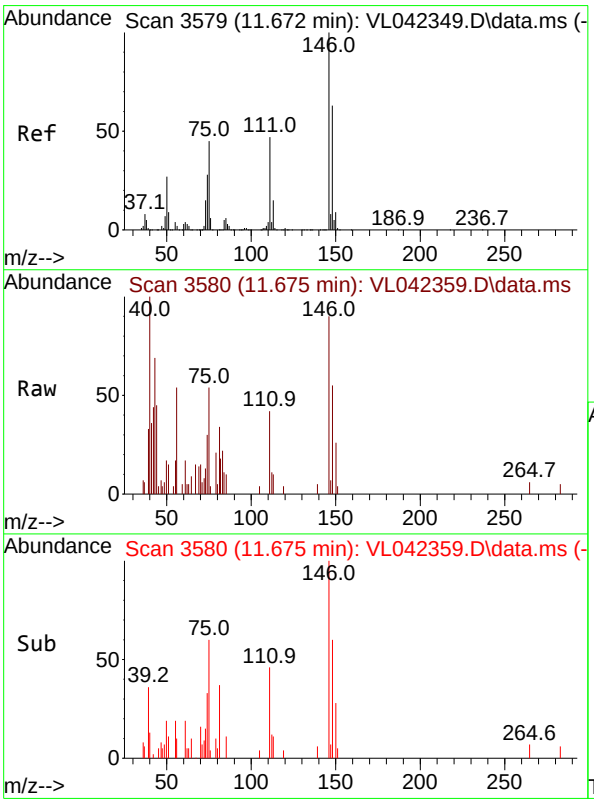

#74
1,2,4-Trimethylbenzene
Concen: 0.274 ppbv
RT: 11.536 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025

Tgt Ion:105 Resp: 17646

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 39.5 | 38.1 | 57.1 |
| 91 | 23.0 | 48.8 | 73.2# |
| 77 | 17.1 | 19.0 | 28.4# |

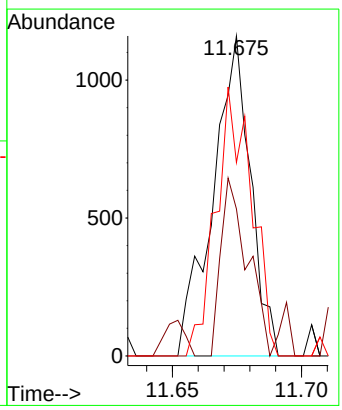


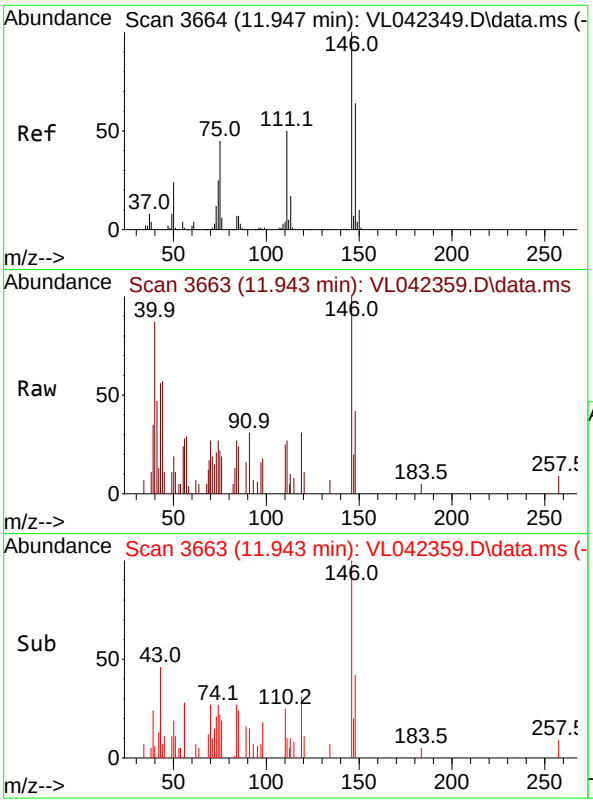




#76
1,4-Dichlorobenzene
Concen: 0.035 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion:146 Resp: 1179

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 50.0 | 24.2 | 72.6 |
| 148 | 86.9 | 32.1 | 96.5 |



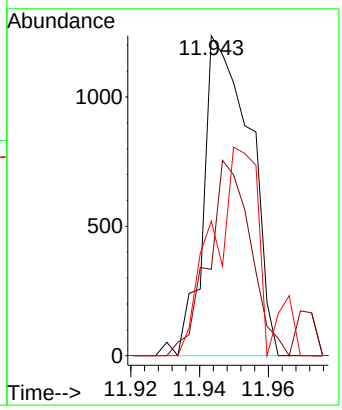


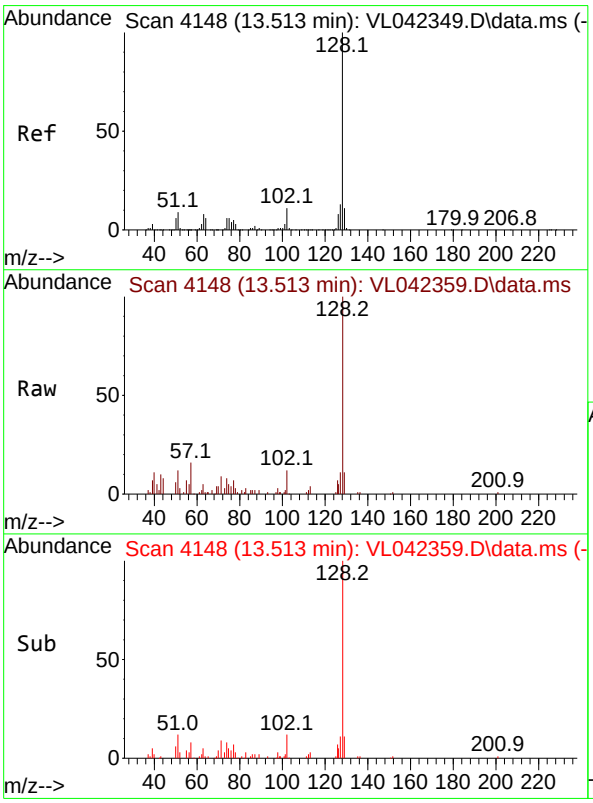

#77
1,2-Dichlorobenzene
Concen: 0.035 ppbv
RT: 11.943 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025

Tgt Ion:146 Resp: 1149

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 65.6 | 25.3 | 75.9 |
| 148 | 69.1 | 31.5 | 94.5 |

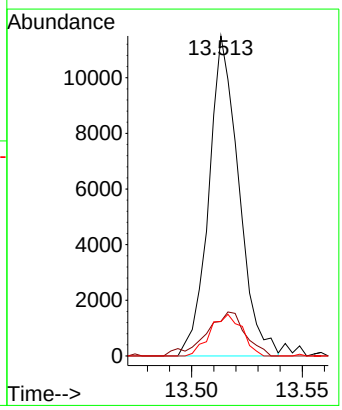


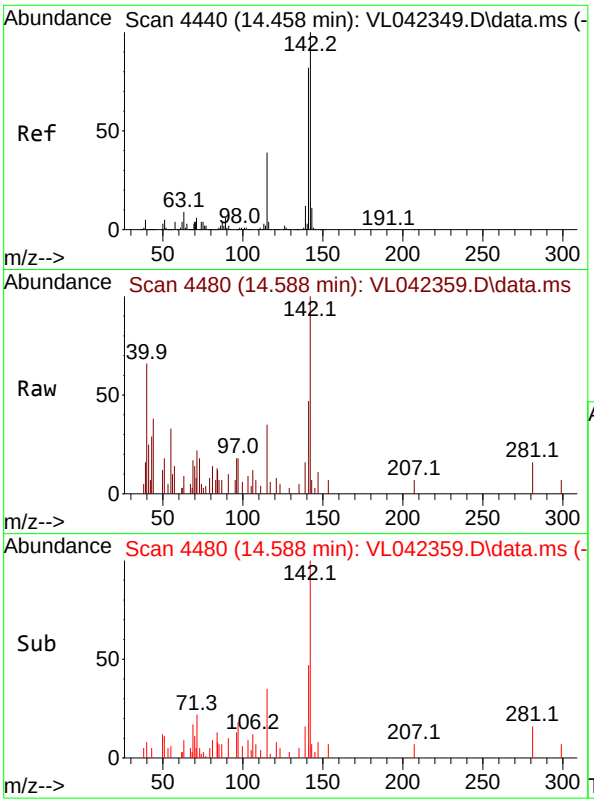




#79
Naphthalene
Concen: 0.140 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion:128 Resp: 10816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 10.8 | 10.6 | 15.8 |
| 129 | 10.8 | 8.6 | 12.8 |



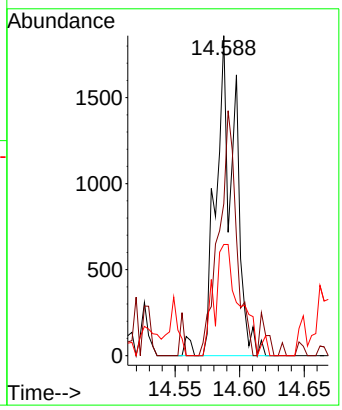


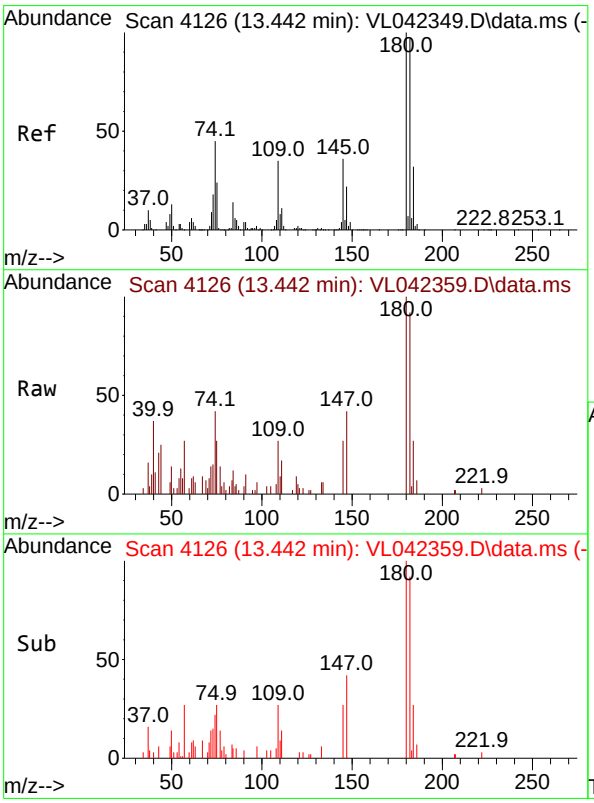

#80
Naphthalene,2-methyl-
Concen: 0.043 ppbv
RT: 14.588 min Scan# 4
Delta R.T. 0.129 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025

Tgt Ion:142 Resp: 1898

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 76.4 | 66.8 | 100.2 |
| 115 | 46.7 | 33.4 | 50.2 |

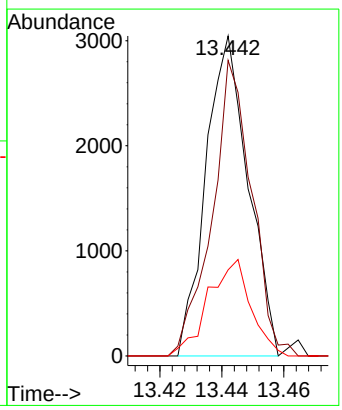



#81
1,2,4-Trichlorobenzene
Concen: 0.087 ppbv
RT: 13.442 min Scan# 4126
Delta R.T. 0.000 min
Lab File: VL042359.D
Acq: 17 Apr 2025 16:12

Tgt Ion:180 Resp: 2886

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 86.5 | 76.8 | 115.2 |
| 184 | 30.4 | 24.6 | 36.8 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042360.D
Acq On : 17 Apr 2025 16:44
Operator : SY/MD
Sample : Q1665-15DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025DL

Quant Time: Apr 18 02:38:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

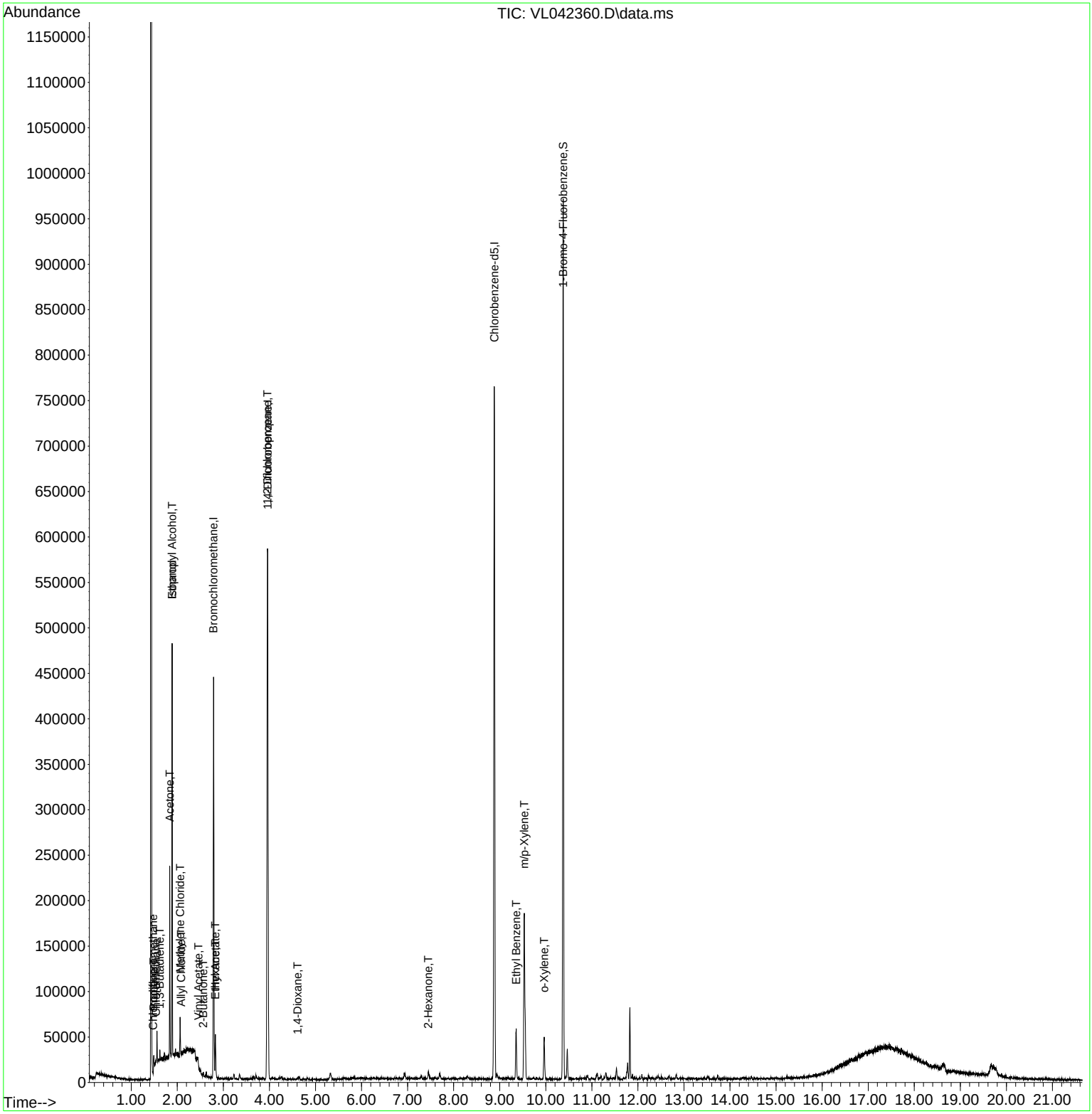
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.787 | 49 | 121918 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.962 | 114 | 347081 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.882 | 117 | 308280 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95 | 259047 | 10.226 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 102.300% | | | |
| Target Compounds | | | | | | Qvalue |
| 3) Chlorodifluoromethane | 1.476 | 51 | 1686 | 0.082 | ppbv # | 88 |
| 4) Chloromethane | 1.535 | 50 | 771 | 0.090 | ppbv # | 65 |
| 9) Propene | 1.489 | 41 | 2087 | 0.223 | ppbv | 85 |
| 13) Ethanol | 1.887 | 45 | 188363 | 126.866 | ppbv # | 24 |
| 15) Acetone | 1.836 | 43 | 84869 | 4.252 | ppbv | 100 |
| 16) 1,3-Butadiene | 1.619 | 39 | 934 | 0.098 | ppbv # | 9 |
| 19) Isopropyl Alcohol | 1.887 | 45 | 188363 | 16.989 | ppbv # | 52 |
| 20) Methylene Chloride | 2.062 | 84 | 5840 | 0.747 | ppbv # | 59 |
| 21) Allyl Chloride | 2.085 | 41 | 610 | 0.044 | ppbv # | 1 |
| 23) Vinyl Acetate | 2.460 | 43 | 887 | 0.110 | ppbv # | 1 |
| 25) Ethyl Acetate | 2.823 | 43 | 7846 | 0.159 | ppbv # | 77 |
| 26) Hexane | 2.826 | 57 | 10934 | 0.549 | ppbv # | 34 |
| 34) 2-Butanone | 2.564 | 43 | 2970 | 0.108 | ppbv | 91 |
| 39) 1,2-Dichloropropane | 3.959 | 63 | 93853 | 6.728 | ppbv # | 21 |
| 40) 1,4-Dioxane | 4.613 | 88 | 360 | 0.047 | ppbv # | 1 |
| 51) 2-Hexanone | 7.448 | 43 | 5539 | 0.135 | ppbv # | 96 |
| 58) Ethyl Benzene | 9.358 | 91 | 30946 | 0.507 | ppbv | 93 |
| 59) m/p-Xylene | 9.532 | 91 | 89850 | 1.826 | ppbv # | 86 |
| 60) o-Xylene | 9.966 | 91 | 20222 | 0.408 | ppbv | 97 |

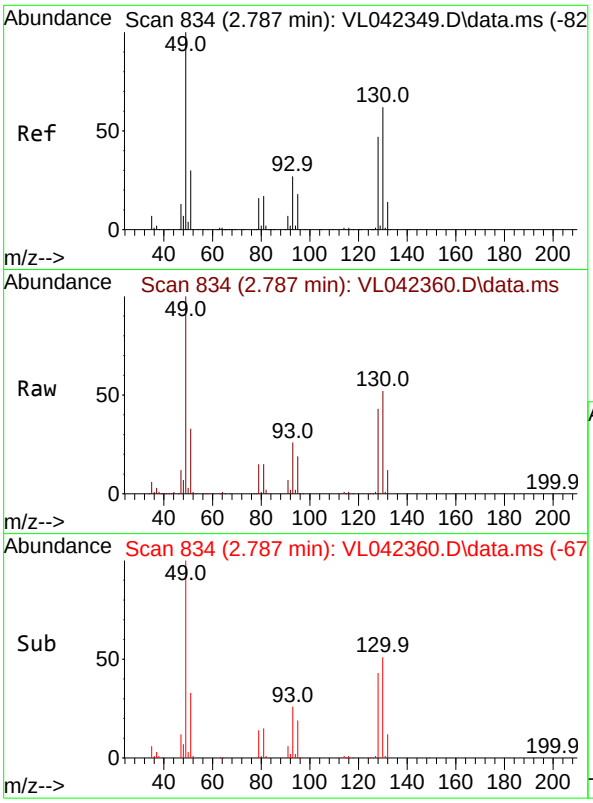
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042360.D
Acq On : 17 Apr 2025 16:44
Operator : SY/MD
Sample : Q1665-15DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025DL

Quant Time: Apr 18 02:38:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration



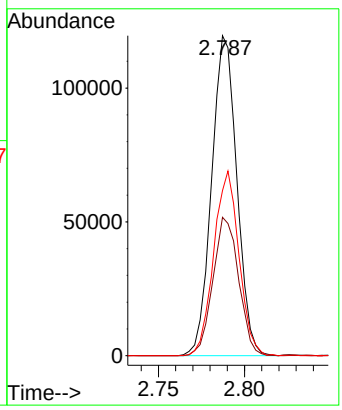


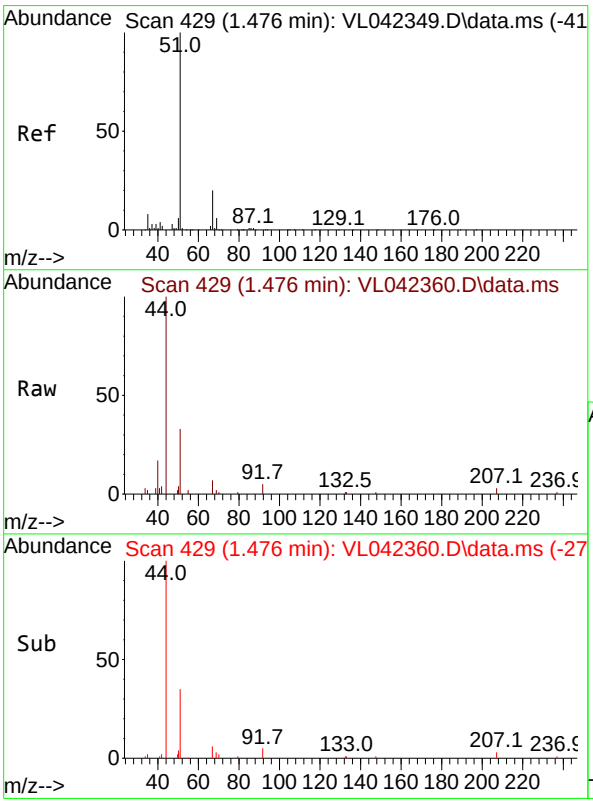

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025DL

Tgt Ion: 49 Resp: 121918

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 44.1 | 22.8 | 68.4 |
| 130 | 57.9 | 29.3 | 88.0 |

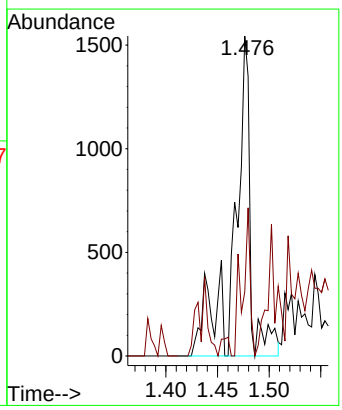


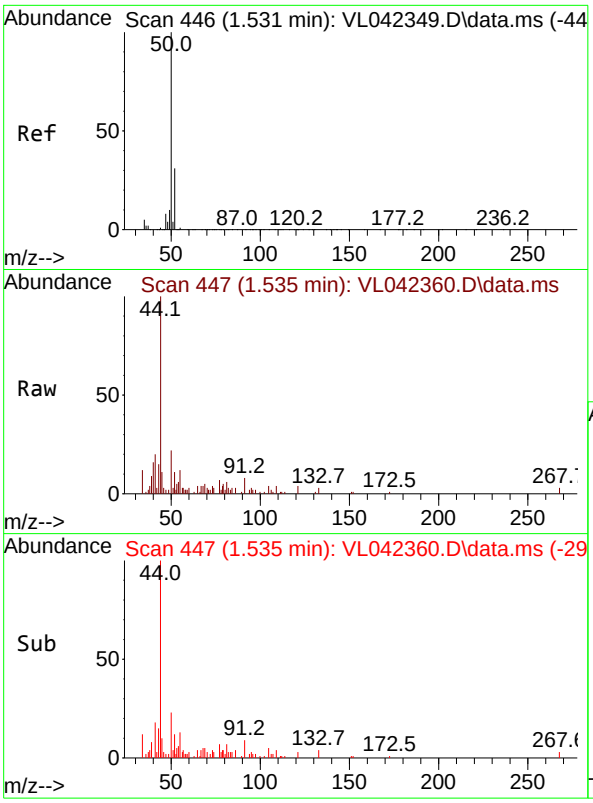




#3
Chlorodifluoromethane
Concen: 0.082 ppbv
RT: 1.476 min Scan# 429
Delta R.T. 0.000 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

Tgt Ion: 51 Resp: 1686

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 25.6 | 16.2 | 24.4# |



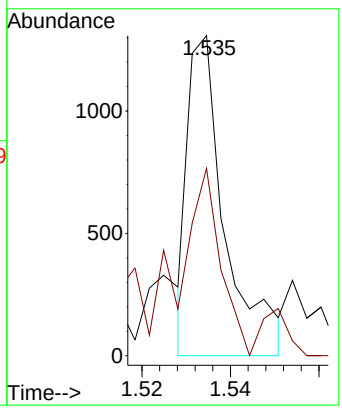


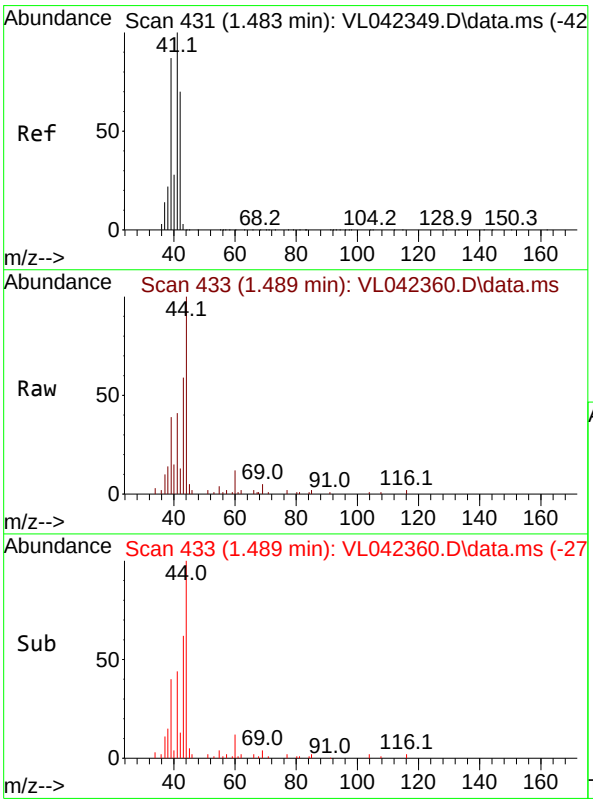

#4
Chloromethane
Concen: 0.090 ppbv
RT: 1.535 min Scan# 44
Delta R.T. 0.003 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025DL

Tgt Ion: 50 Resp: 771

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 49.9 | 24.7 | 37.1# |

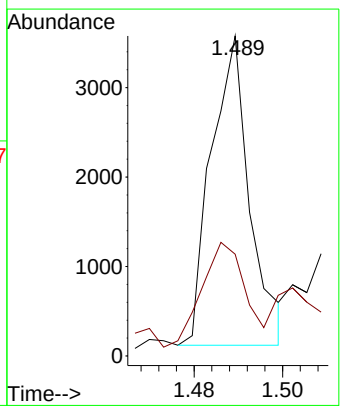


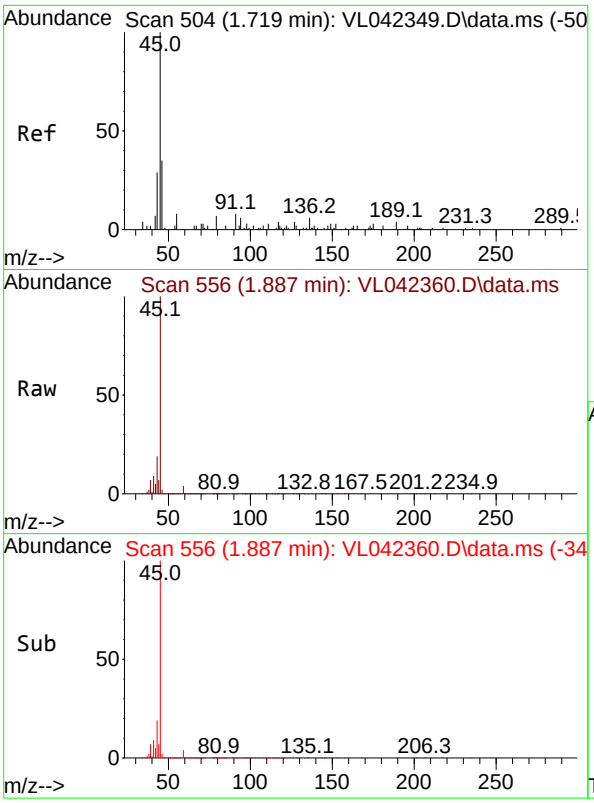




#9
Propene
Concen: 0.223 ppbv
RT: 1.489 min Scan# 433
Delta R.T. 0.007 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

Tgt Ion: 41 Resp: 2087

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 82.3 | 56.2 | 84.4 |



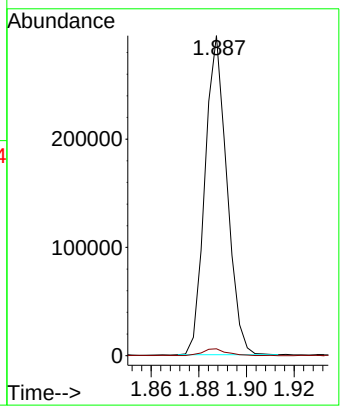


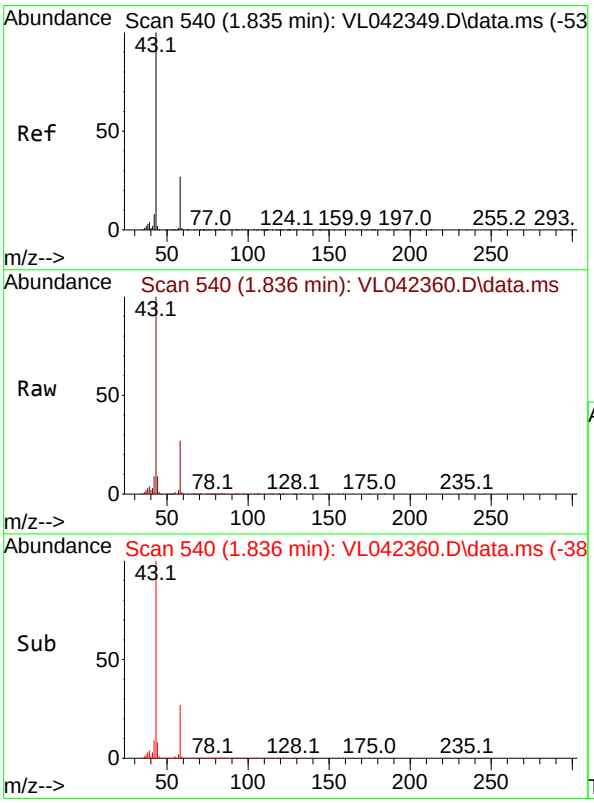

#13
Ethanol
Concen: 126.866 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.169 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025DL

Tgt Ion: 45 Resp: 188363

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 0.0 | 21.9 | 87.7# |

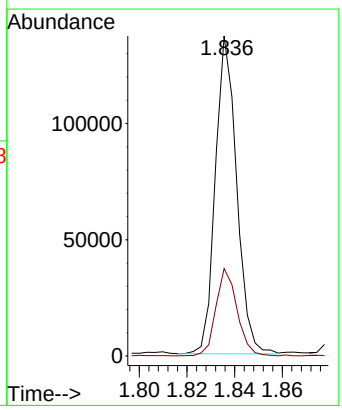


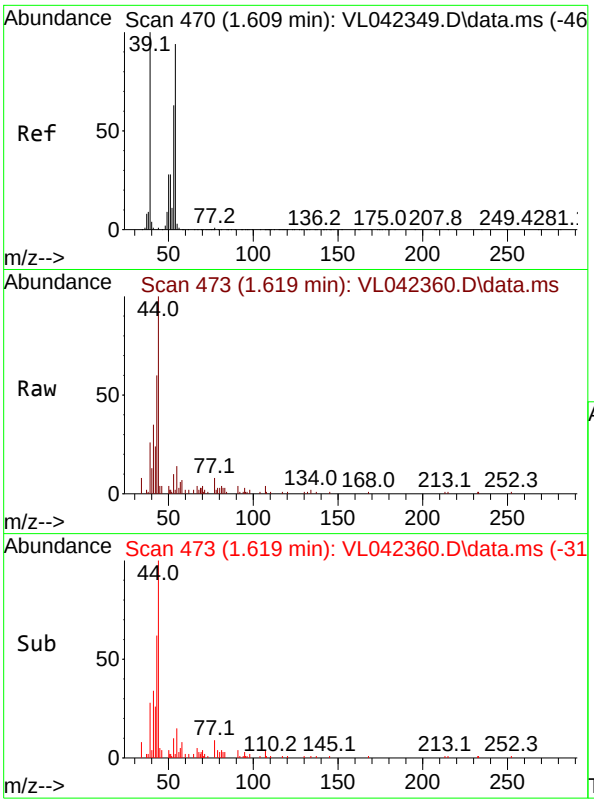




#15
Acetone
Concen: 4.252 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

Tgt Ion: 43 Resp: 84869

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 27.8 | 22.4 | 33.6 |



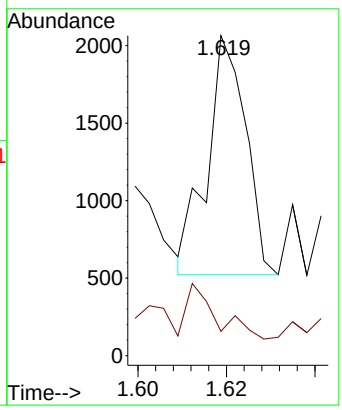


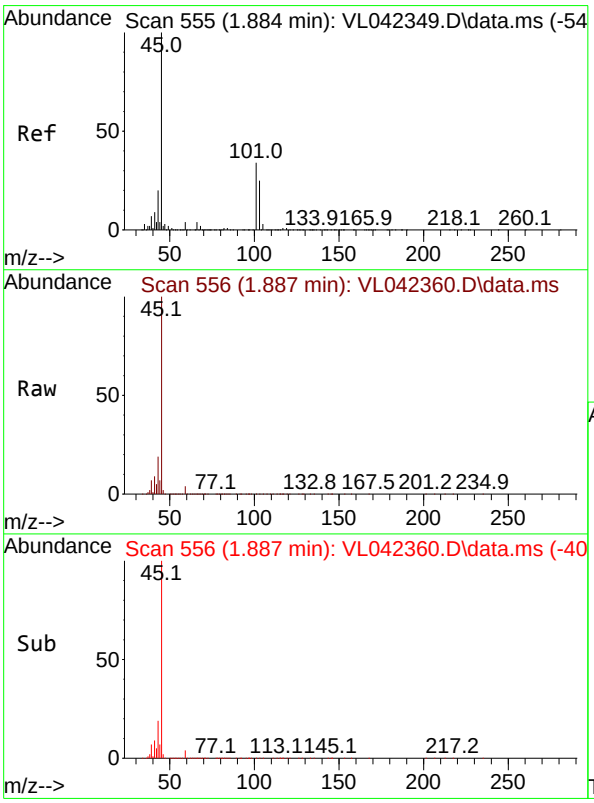

#16
1,3-Butadiene
Concen: 0.098 ppbv
RT: 1.619 min Scan# 4
Delta R.T. 0.010 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025DL

Tgt Ion: 39 Resp: 934

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 0.0 | 64.9 | 97.3# |

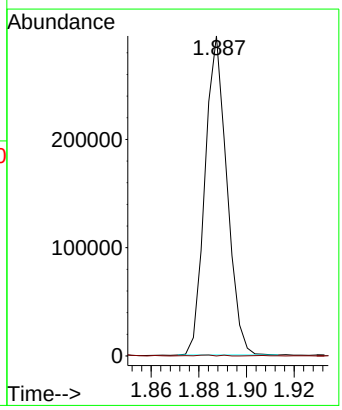


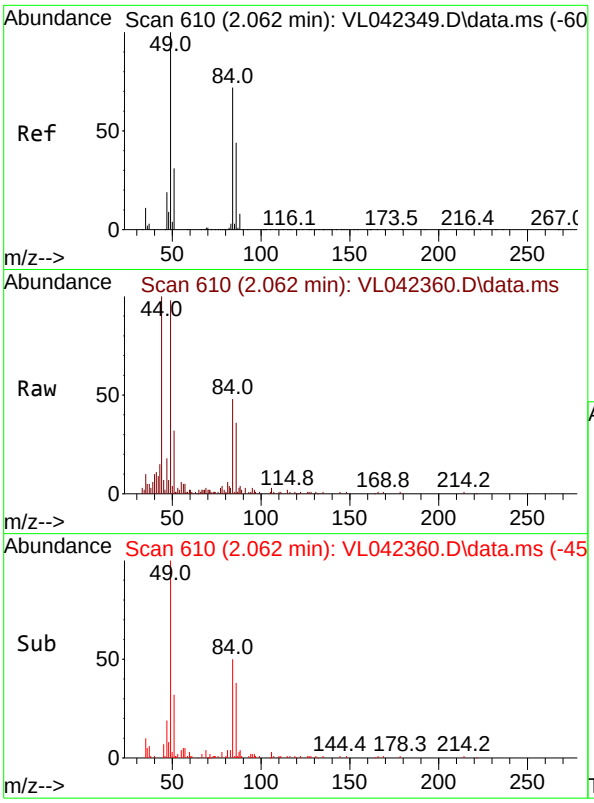




#19
Isopropyl Alcohol
Concen: 16.989 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

Tgt Ion: 45 Resp: 188363

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 12.5 | 34.5 | 51.7# |



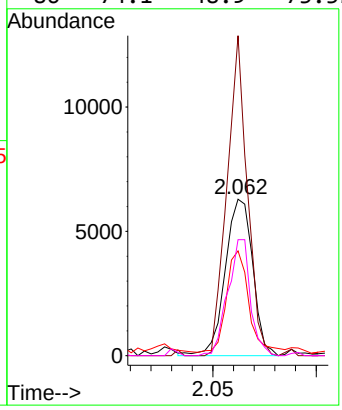


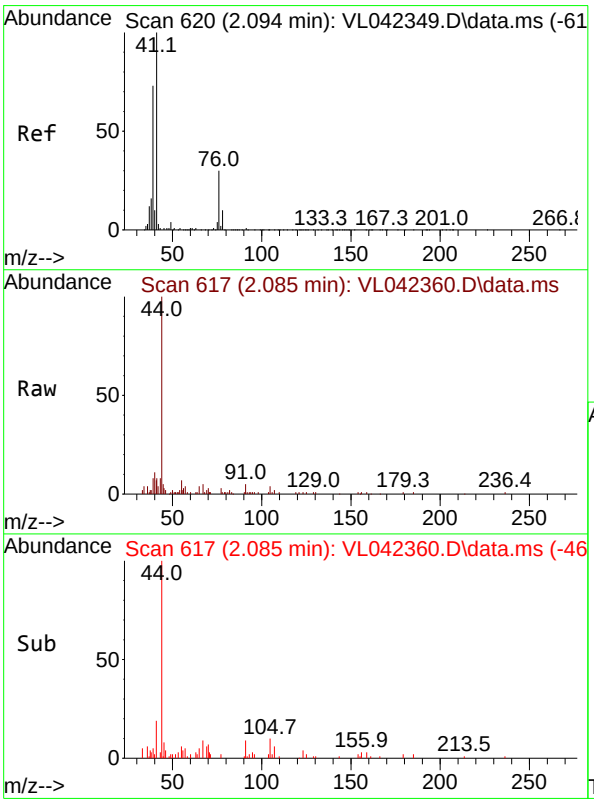

#20
Methylene Chloride
Concen: 0.747 ppbv
RT: 2.062 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025DL

Tgt Ion: 84 Resp: 5840

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 204.5 | 111.6 | 167.4# |
| 51 | 66.1 | 35.1 | 52.7# |
| 86 | 74.1 | 48.9 | 73.3# |

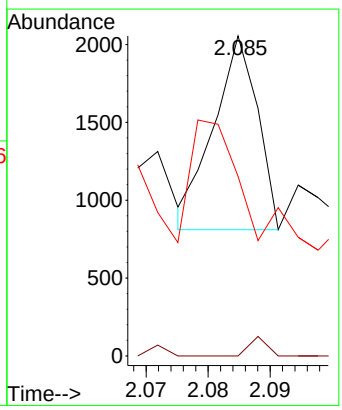


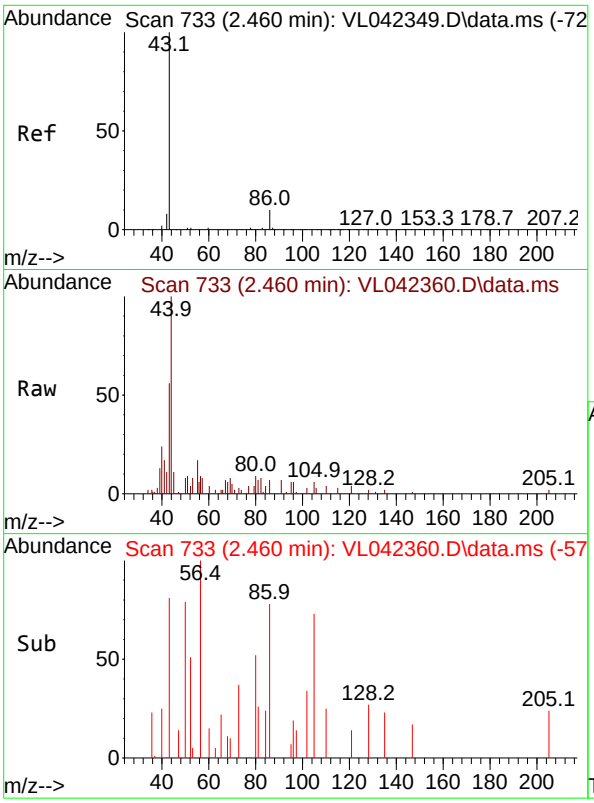




#21
Allyl Chloride
Concen: 0.044 ppbv
RT: 2.085 min Scan# 617
Delta R.T. -0.010 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

Tgt Ion: 41 Resp: 610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 3.9 | 24.8 | 37.2# |
| 39 | 190.5 | 60.6 | 90.8# |



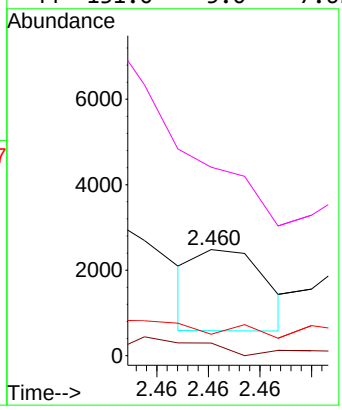


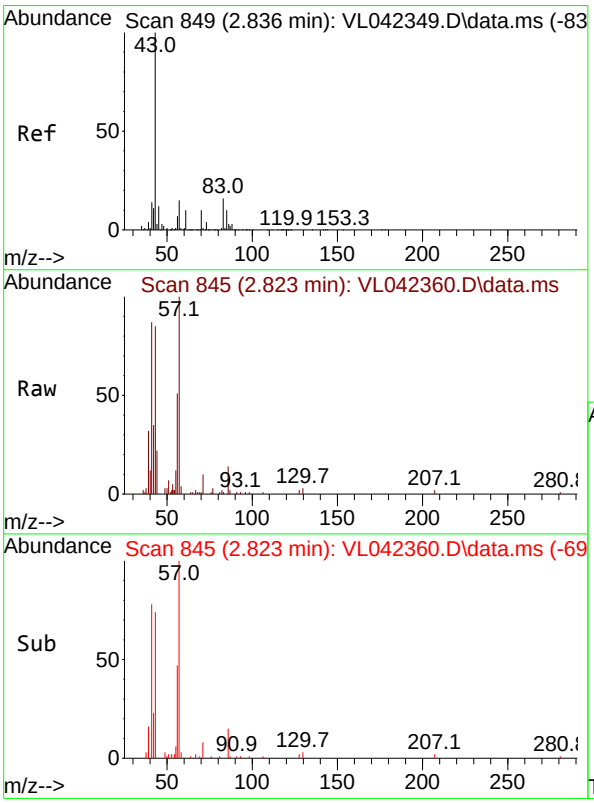

#23
Vinyl Acetate
Concen: 0.110 ppbv
RT: 2.460 min Scan# 7
Delta R.T. 0.000 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025DL

Tgt Ion: 43 Resp: 887

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.6 | 6.5 | 9.7# |
| 42 | 9.0 | 7.8 | 11.8 |
| 44 | 131.0 | 5.0 | 7.6# |

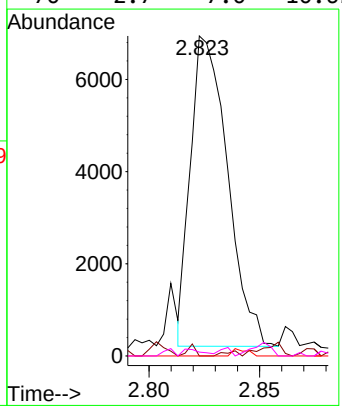


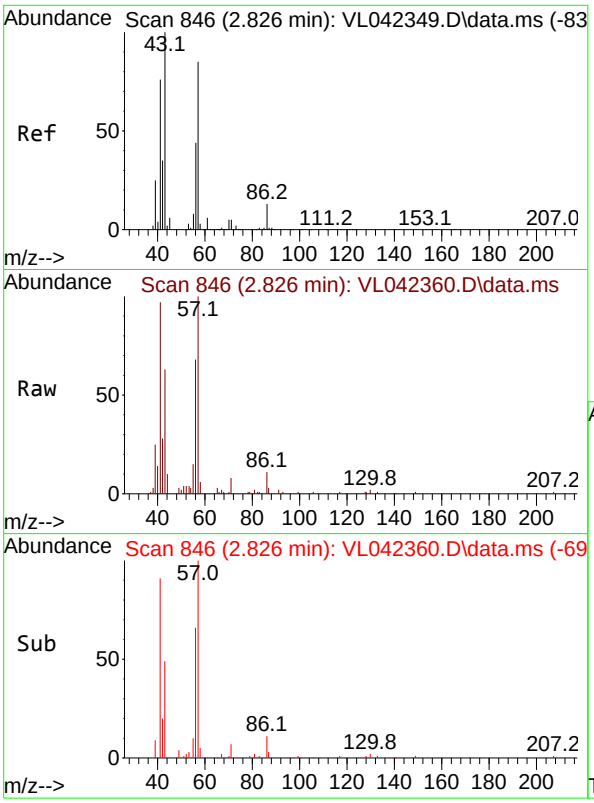




#25
Ethyl Acetate
Concen: 0.159 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.013 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

Tgt Ion: 43 Resp: 7846

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 0.0 | 8.3 | 12.5# |
| 61 | 0.9 | 7.3 | 10.9# |
| 70 | 2.7 | 7.0 | 10.6# |



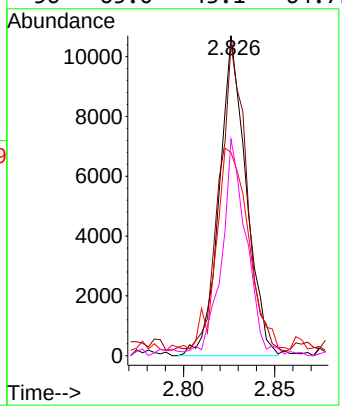


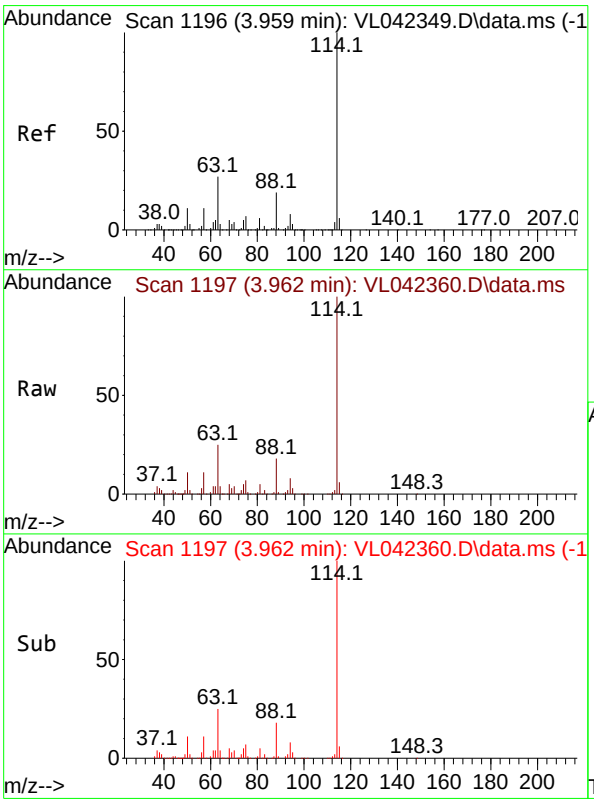

#26
Hexane
Concen: 0.549 ppbv
RT: 2.826 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025DL

Tgt Ion: 57 Resp: 10934

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 97.0 | 77.9 | 116.9 |
| 43 | 80.3 | 208.4 | 312.6# |
| 56 | 65.0 | 43.1 | 64.7# |

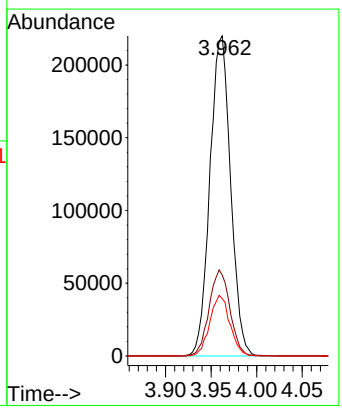


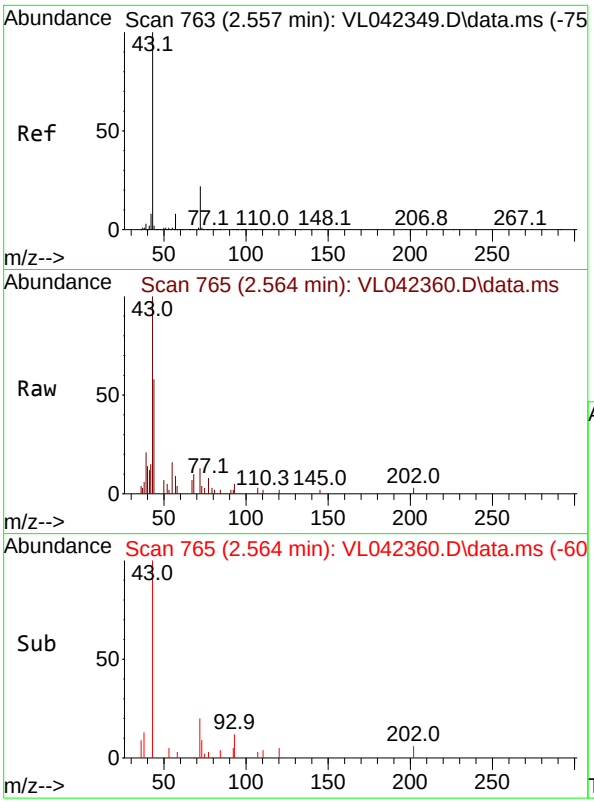




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.003 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

Tgt Ion:114 Resp: 347081

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 27.1 | 21.8 | 32.6 |
| 88 | 18.4 | 15.5 | 23.3 |



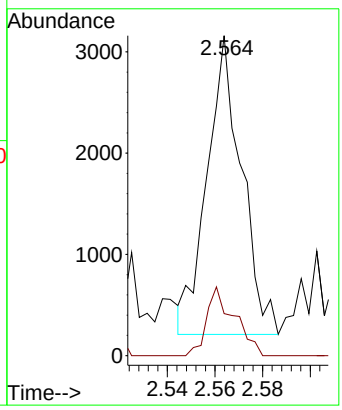


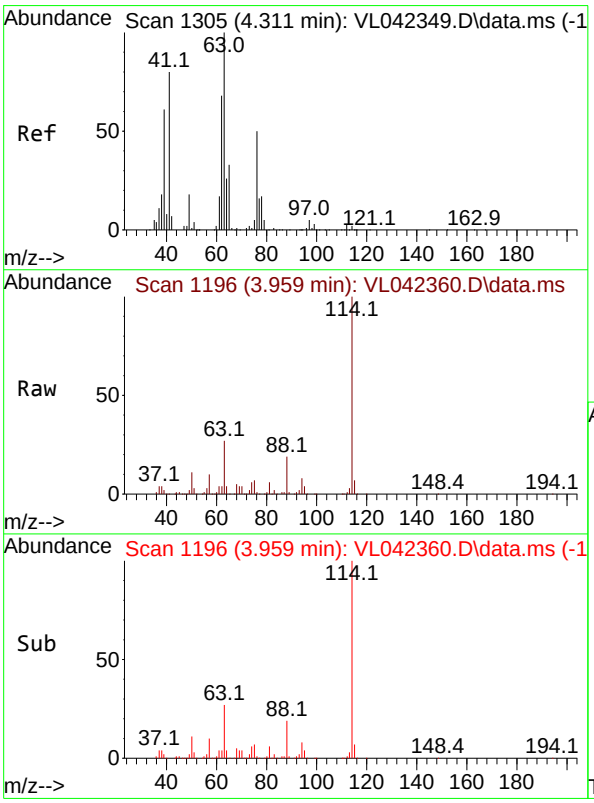

#34
2-Butanone
Concen: 0.108 ppbv
RT: 2.564 min Scan# 7
Delta R.T. 0.007 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025DL

Tgt Ion: 43 Resp: 2970

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 18.6 | 18.2 | 27.2 |

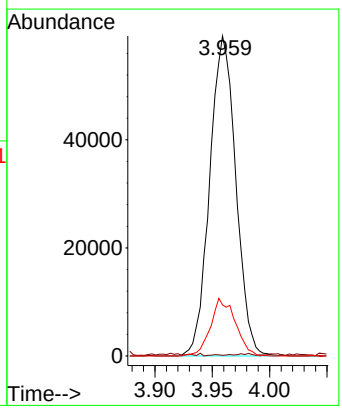


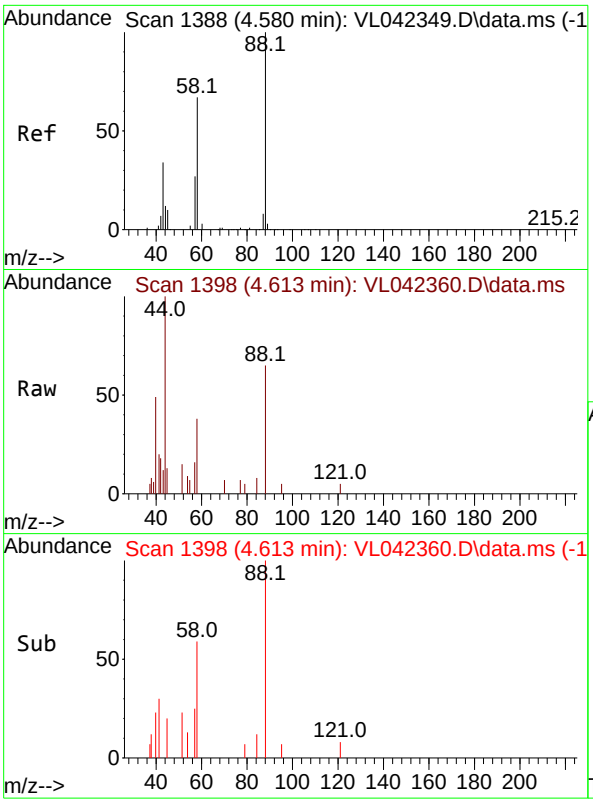




#39
1,2-Dichloropropane
Concen: 6.728 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.353 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

Tgt Ion: 63 Resp: 93853

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 0.0 | 64.2 | 96.2# |
| 62 | 15.9 | 54.3 | 81.5# |



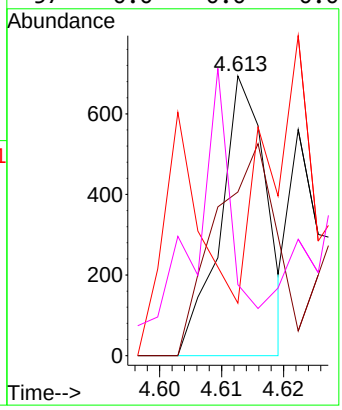


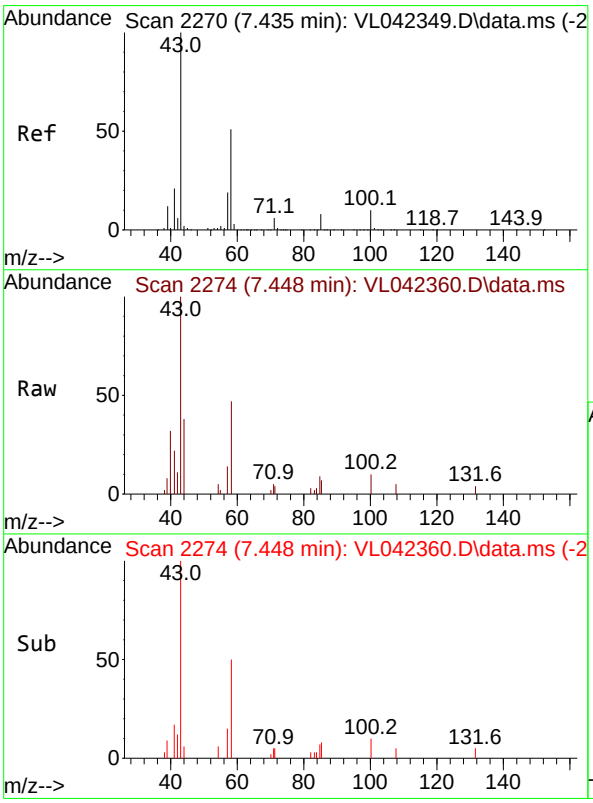

#40
1,4-Dioxane
Concen: 0.047 ppbv
RT: 4.613 min Scan# 1
Delta R.T. 0.033 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025DL

Tgt Ion: 88 Resp: 360

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 190.3 | 61.4 | 92.0# |
| 43 | 135.3 | 23.2 | 34.8# |
| 57 | 0.0 | 0.0 | 0.0 |

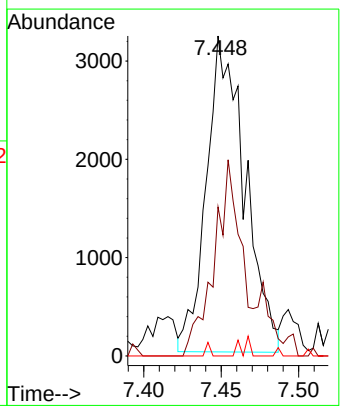


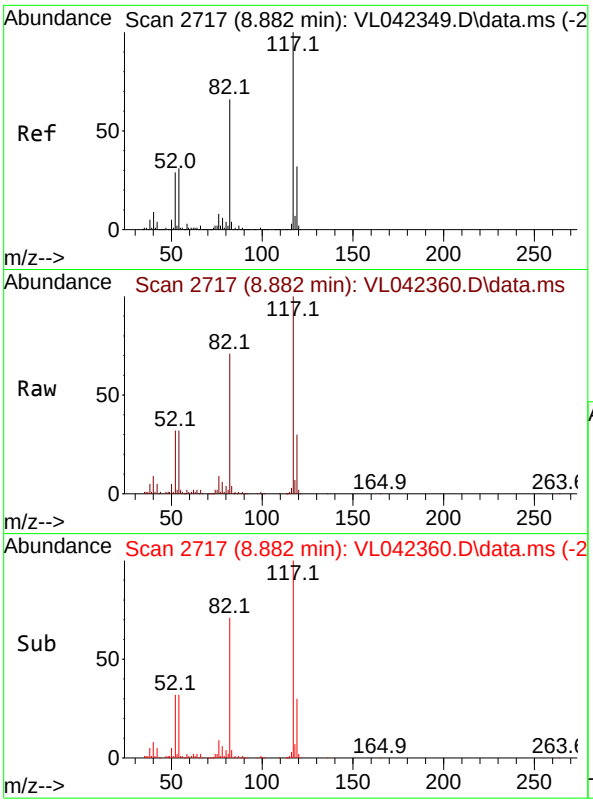




#51
2-Hexanone
Concen: 0.135 ppbv
RT: 7.448 min Scan# 2274
Delta R.T. 0.013 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

Tgt Ion: 43 Resp: 5539

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 53.1 | 40.2 | 60.4 |
| 98 | 0.0 | 0.1 | 0.1# |



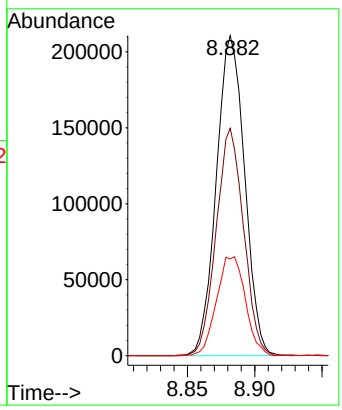


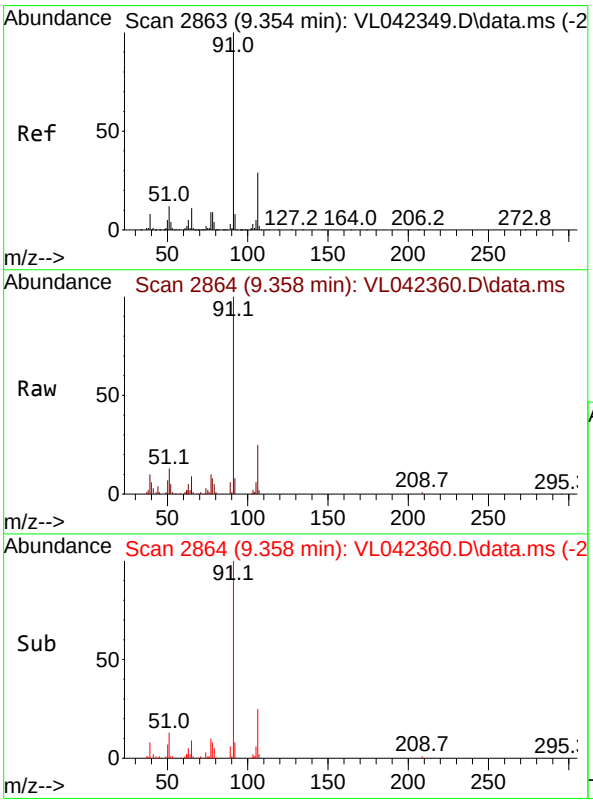

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025DL

Tgt Ion:117 Resp: 308280

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 68.8 | 57.8 | 86.6 |
| 119 | 31.5 | 25.2 | 37.8 |

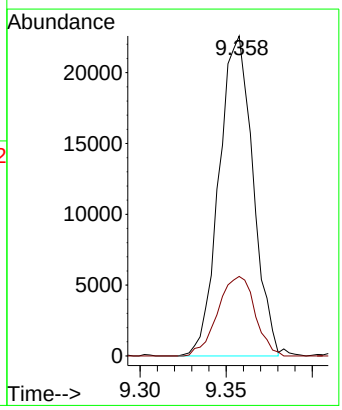


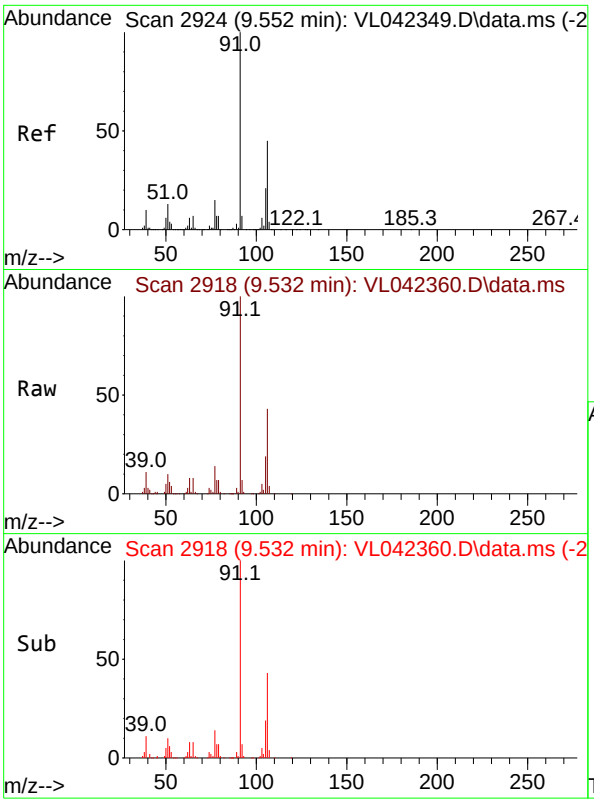




#58
Ethyl Benzene
Concen: 0.507 ppbv
RT: 9.358 min Scan# 2864
Delta R.T. 0.003 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

Tgt Ion: 91 Resp: 30946

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 24.8 | 23.0 | 34.4 |



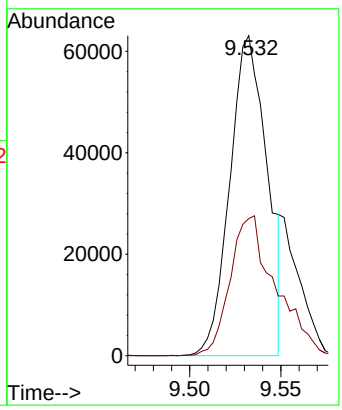


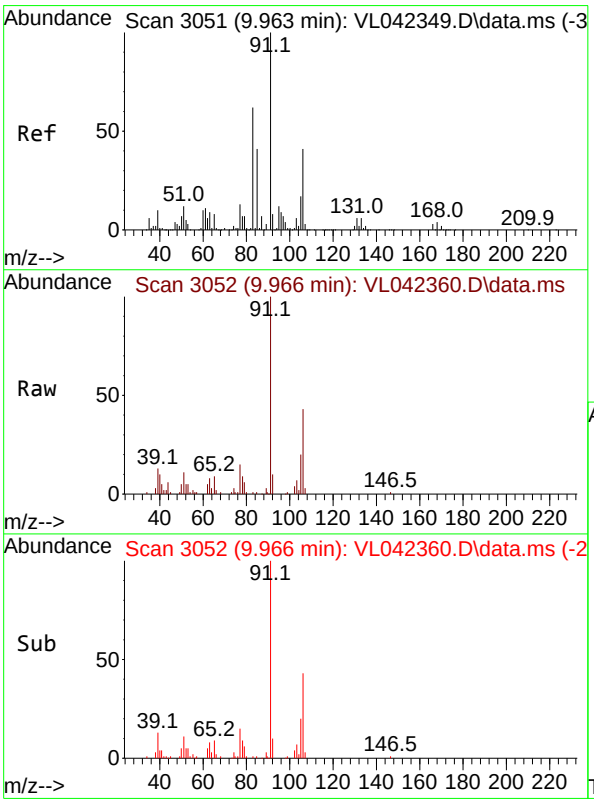

#59
m/p-Xylene
Concen: 1.826 ppbv
RT: 9.532 min Scan# 2
Delta R.T. -0.019 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025DL

Tgt Ion: 91 Resp: 89850

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 53.4 | 35.4 | 53.2# |

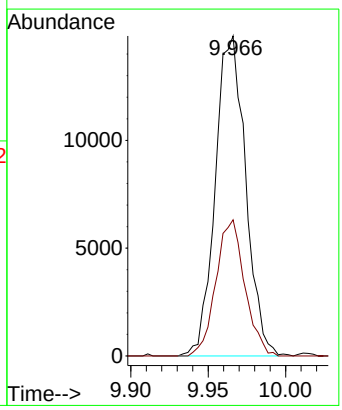


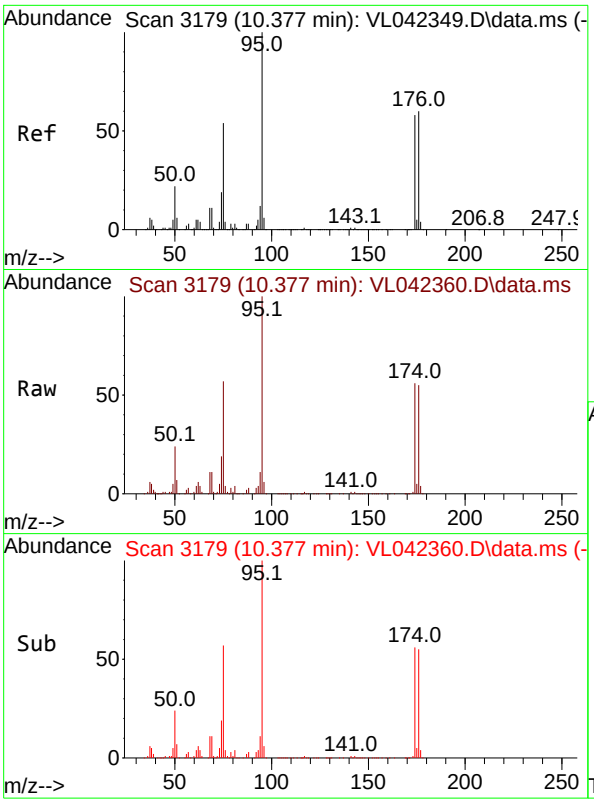




#60
o-Xylene
Concen: 0.408 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.003 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

Tgt Ion: 91 Resp: 20222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 40.4 | 21.1 | 63.4 |



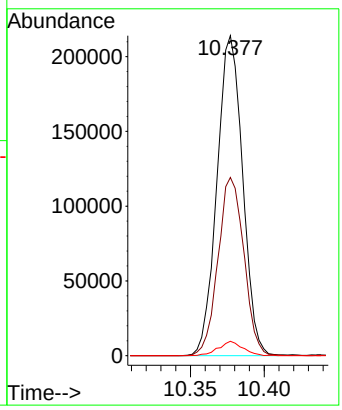



#68
1-Bromo-4-Fluorobenzene
Concen: 10.226 ppbv
RT: 10.377 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B14-1-3242025DL

Tgt Ion: 95 Resp: 259047

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 56.2 | 48.5 | 72.7 |
| 175 | 4.3 | 3.7 | 5.5 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042416.D
Acq On : 28 Apr 2025 08:44
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Quant Time: Apr 29 01:31:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 2.784 | 49 | 121989 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.955 | 114 | 345031 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.878 | 117 | 305240 | 10.000 | ppbv | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.374 | 95 | 264197 | 10.533 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 105.300% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.499 | 85 | 219089 | 10.165 | ppbv | | 98 |
| 3) Chlorodifluoromethane | 1.476 | 51 | 192111 | 9.360 | ppbv | | 99 |
| 4) Chloromethane | 1.531 | 50 | 85195 | 9.988 | ppbv | | 98 |
| 5) Vinyl Chloride | 1.580 | 62 | 82863 | 8.925 | ppbv | | 100 |
| 6) Bromomethane | 1.667 | 94 | 37396 | 9.376 | ppbv | | 83 |
| 7) Chloroethane | 1.703 | 64 | 32235 | 9.600 | ppbv | | 99 |
| 8) Dichlorotetrafluoroethane | 1.554 | 85 | 189174 | 10.223 | ppbv | | 95 |
| 9) Propene | 1.483 | 41 | 75996 | 8.131 | ppbv | | 98 |
| 10) Heptane | 4.975 | 43 | 205785 | 7.837 | ppbv | | 98 |
| 11) Trichlorofluoromethane | 1.874 | 101 | 210830 | 10.286 | ppbv | | 95 |
| 12) 1,1,2-Trichlorotrifluo... | 2.136 | 101 | 163109 | 9.733 | ppbv | | 97 |
| 13) Ethanol | 1.719 | 45 | 4612 | 3.104 | ppbv | | 98 |
| 14) Bromoethene | 1.780 | 108 | 63235 | 10.010 | ppbv | | 97 |
| 15) Acetone | 1.832 | 43 | 172207 | 8.623 | ppbv | | 100 |
| 16) 1,3-Butadiene | 1.609 | 39 | 84816 | 8.880 | ppbv | | 98 |
| 17) tert-Butyl alcohol | 2.039 | 59 | 226804 | 9.164 | ppbv | | 100 |
| 18) 1,1-Dichloroethene | 2.033 | 96 | 73751 | 9.420 | ppbv | | 96 |
| 19) Isopropyl Alcohol | 1.884 | 45 | 101011 | 9.105 | ppbv | | 93 |
| 20) Methylene Chloride | 2.059 | 84 | 62506 | 7.992 | ppbv | | 90 |
| 21) Allyl Chloride | 2.094 | 41 | 125215 | 9.081 | ppbv | | 97 |
| 22) trans-1,2-Dichloroethene | 2.337 | 96 | 81589 | 9.153 | ppbv | | 94 |
| 23) Vinyl Acetate | 2.460 | 43 | 64907 | 8.030 | ppbv | | 97 |
| 24) 1,1-Dichloroethane | 2.405 | 63 | 163124 | 9.634 | ppbv | | 99 |
| 25) Ethyl Acetate | 2.835 | 43 | 425121 | 8.634 | ppbv | | 99 |
| 26) Hexane | 2.823 | 57 | 166789 | 8.370 | ppbv | | 98 |
| 27) Carbon Disulfide | 2.146 | 76 | 205605 | 9.637 | ppbv | | 96 |
| 28) Methyl tert-Butyl Ether | 2.437 | 73 | 116474 | 8.922 | ppbv | | 93 |
| 29) Chloroform | 2.845 | 83 | 280938 | 9.975 | ppbv | | 99 |
| 30) Cyclohexane | 3.852 | 84 | 142532 | 8.849 | ppbv | | 98 |
| 31) cis-1,2-Dichloroethene | 2.719 | 61 | 181514 | 9.581 | ppbv | | 96 |
| 32) 1,1,1-Trichloroethane | 3.363 | 97 | 301259 | 9.501 | ppbv | | 99 |
| 34) 2-Butanone | 2.554 | 43 | 241047 | 8.834 | ppbv | | 99 |
| 35) Carbon Tetrachloride | 3.758 | 117 | 305477 | 9.783 | ppbv | | 96 |
| 36) Benzene | 3.654 | 78 | 338736 | 9.102 | ppbv | | 97 |
| 37) 1,2-Dichloroethane | 3.214 | 62 | 235966 | 10.564 | ppbv | | 97 |
| 38) Trichloroethene | 4.541 | 130 | 136731 | 8.406 | ppbv | | 95 |
| 39) 1,2-Dichloropropane | 4.308 | 63 | 122213 | 8.813 | ppbv | | 97 |
| 40) 1,4-Dioxane | 4.577 | 88 | 58837 | 7.720 | ppbv | # | 95 |
| 41) Tetrahydrofuran | 3.052 | 42 | 133063 | 8.363 | ppbv | | 99 |
| 42) Bromodichloromethane | 4.483 | 83 | 310726 | 9.996 | ppbv | # | 96 |
| 43) Methyl Methacrylate | 4.878 | 69 | 138030 | 8.230 | ppbv | | 94 |
| 44) 2,2,4-Trimethylpentane | 4.635 | 57 | 562403 | 8.750 | ppbv | | 96 |
| 45) t-1,3-Dichloropropene | 6.409 | 75 | 157191 | 9.175 | ppbv | | 95 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042416.D
Acq On : 28 Apr 2025 08:44
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Quant Time: Apr 29 01:31:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.593 | 75 | 191165 | 9.117 | ppbv | # | 88 |
| 47) 1,1,2-Trichloroethane | 6.574 | 97 | 133821 | 9.471 | ppbv | | 96 |
| 48) Dibromochloromethane | 7.383 | 129 | 245439 | 9.832 | ppbv | | 99 |
| 49) Bromoform | 9.480 | 173 | 198991 | 9.117 | ppbv | | 100 |
| 50) 4-Methyl-2-Pentanone | 5.748 | 43 | 356129 | 7.854 | ppbv | | 99 |
| 51) 2-Hexanone | 7.431 | 43 | 287045 | 7.058 | ppbv | | 98 |
| 52) Tetrachloroethene | 8.221 | 164 | 114038 | 7.928 | ppbv | | 91 |
| 53) Toluene | 6.927 | 91 | 398162 | 8.916 | ppbv | | 100 |
| 54) 1,2-Dibromoethane | 7.648 | 107 | 189639 | 9.378 | ppbv | | 92 |
| 56) 1,1,1,2-Tetrachloroethane | 8.920 | 131 | 184161 | 9.969 | ppbv | | 97 |
| 57) Chlorobenzene | 8.917 | 112 | 300677 | 9.471 | ppbv | | 98 |
| 58) Ethyl Benzene | 9.354 | 91 | 568129 | 9.394 | ppbv | | 98 |
| 59) m/p-Xylene | 9.548 | 91 | 438382 | 8.998 | ppbv | # | 29 |
| 60) o-Xylene | 9.963 | 91 | 466411 | 9.507 | ppbv | | 97 |
| 61) Styrene | 9.865 | 104 | 213119 | 9.101 | ppbv | | 98 |
| 62) Isopropylbenzene | 10.535 | 105 | 680837 | 9.452 | ppbv | | 99 |
| 63) 1,1,2,2-Tetrachloroethane | 9.959 | 83 | 274653 | 8.639 | ppbv | | 99 |
| 64) n-propylbenzene | 10.989 | 120 | 166984 | 9.223 | ppbv | | 98 |
| 65) tert-Butylbenzene | 11.529 | 119 | 610304 | 9.219 | ppbv | | 95 |
| 66) Benzyl Chloride | 11.613 | 91 | 59187 | 8.136 | ppbv | | 99 |
| 67) sec-Butylbenzene | 11.765 | 105 | 854169 | 9.276 | ppbv | | 99 |
| 69) p-Isopropyltoluene | 11.924 | 119 | 732365 | 9.155 | ppbv | | 97 |
| 70) n-Butylbenzene | 12.280 | 91 | 765539 | 9.188 | ppbv | | 99 |
| 71) 2-Chlorotoluene | 10.898 | 91 | 534834 | 9.467 | ppbv | | 98 |
| 72) 4-Ethyltoluene | 11.121 | 105 | 556591 | 9.280 | ppbv | | 97 |
| 73) 1,3,5-Trimethylbenzene | 11.202 | 105 | 487223 | 9.201 | ppbv | | 98 |
| 74) 1,2,4-Trimethylbenzene | 11.536 | 105 | 541720 | 8.759 | ppbv | | 94 |
| 75) 1,3-Dichlorobenzene | 11.607 | 146 | 287285 | 8.936 | ppbv | | 97 |
| 76) 1,4-Dichlorobenzene | 11.671 | 146 | 290512 | 8.991 | ppbv | | 98 |
| 77) 1,2-Dichlorobenzene | 11.943 | 146 | 279962 | 8.956 | ppbv | | 98 |
| 78) Hexachloro-1,3-Butadiene | 13.879 | 225 | 265745 | 8.419 | ppbv | | 100 |
| 79) Naphthalene | 13.513 | 128 | 622606 | 8.418 | ppbv | | 99 |
| 80) Naphthalene,2-methyl- | 14.455 | 142 | 328047 | 7.783 | ppbv | | 95 |
| 81) 1,2,4-Trichlorobenzene | 13.439 | 180 | 269711 | 8.493 | ppbv | | 99 |

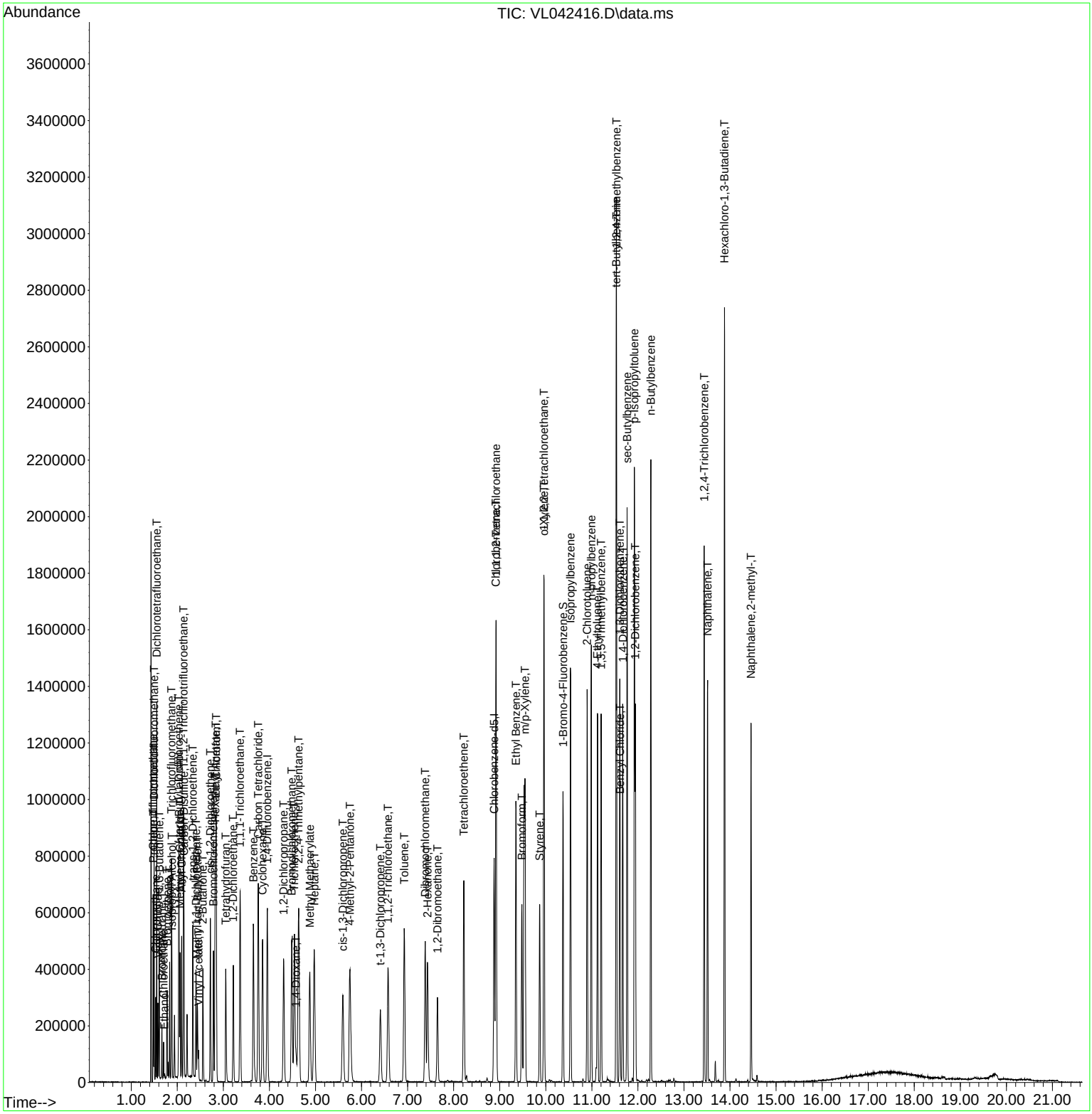
(#) = qualifier out of range (m) = manual integration (+) = signals summed

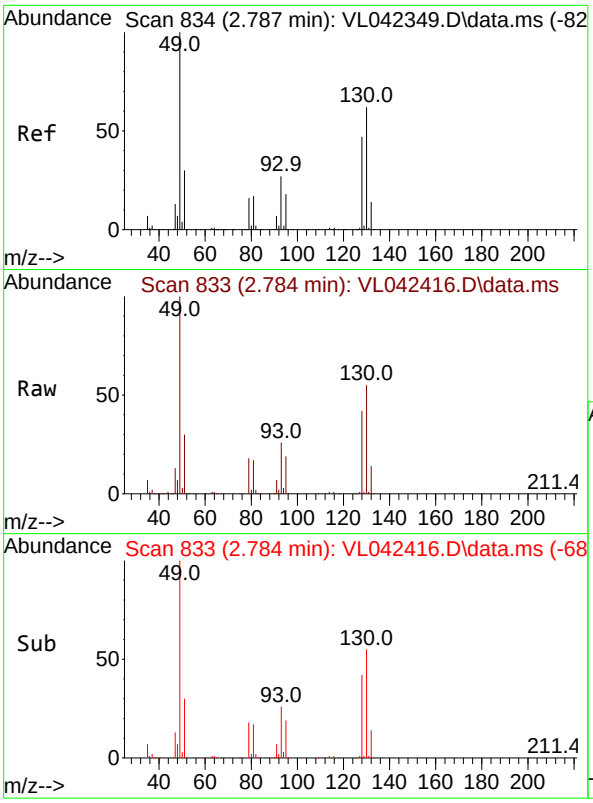
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042416.D
Acq On : 28 Apr 2025 08:44
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Quant Time: Apr 29 01:31:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration



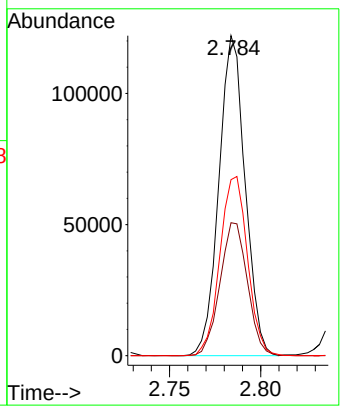


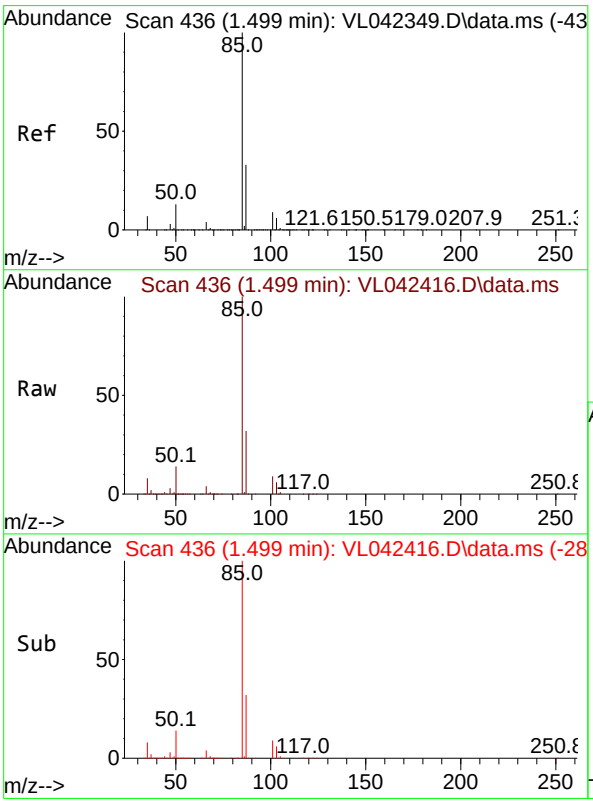

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 49 Resp: 121989

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 43.6 | 22.8 | 68.4 |
| 130 | 59.0 | 29.3 | 88.0 |

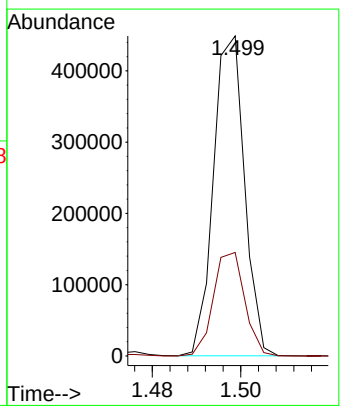


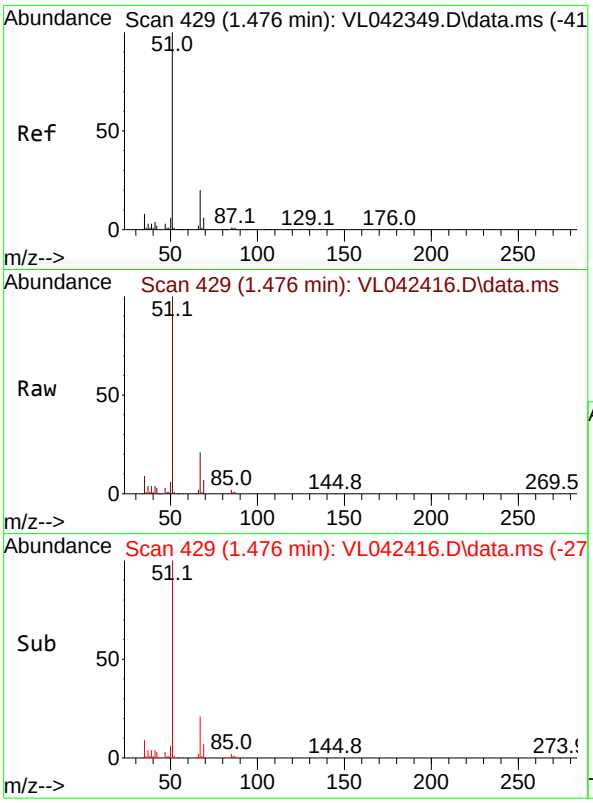




#2
Dichlorodifluoromethane
Concen: 10.165 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 85 Resp: 219089

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.3 | 26.6 | 39.8 |



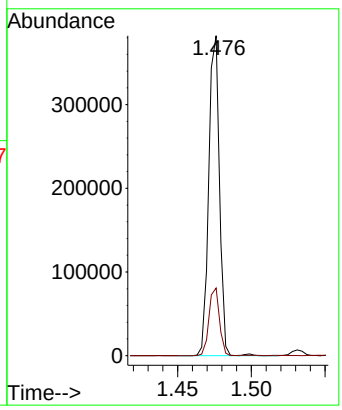


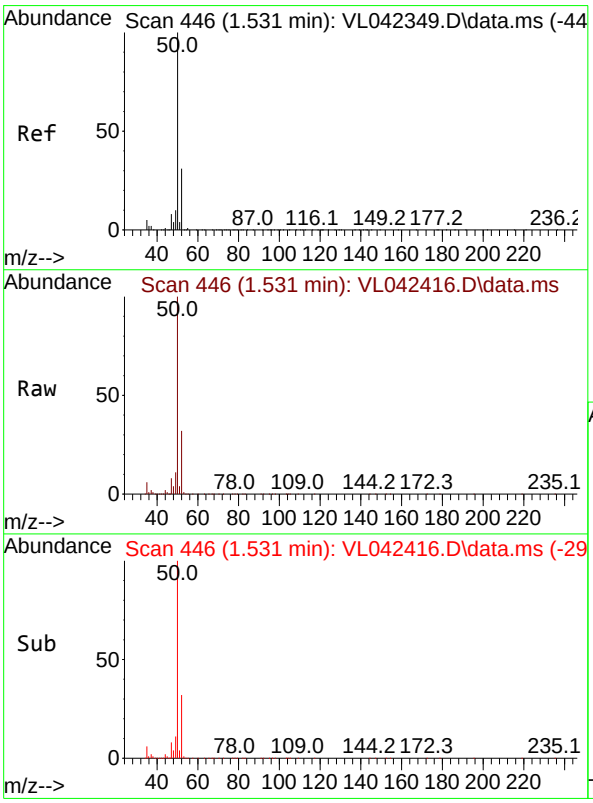

#3
Chlorodifluoromethane
Concen: 9.360 ppbv
RT: 1.476 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 51 Resp: 192111

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 21.0 | 16.2 | 24.4 |

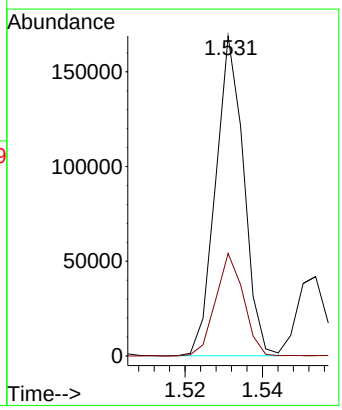


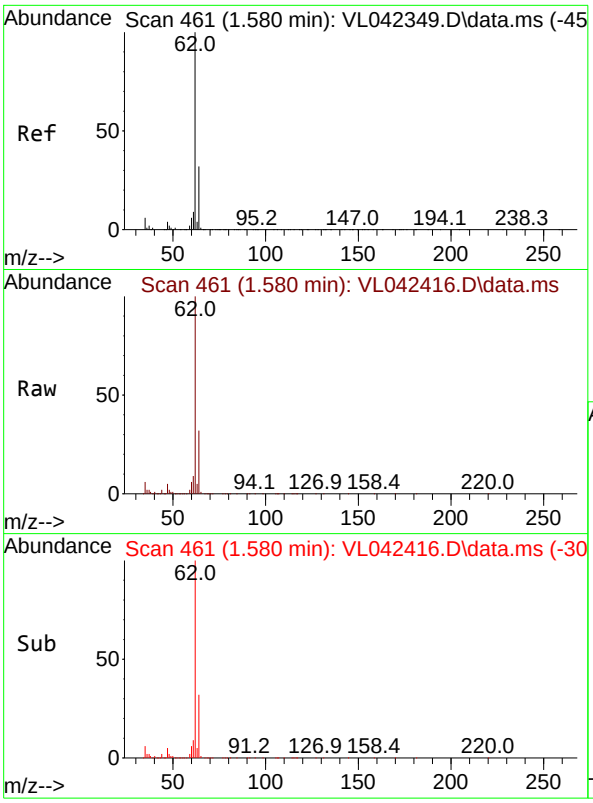




#4
Chloromethane
Concen: 9.988 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 50 Resp: 85195

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.0 | 24.7 | 37.1 |



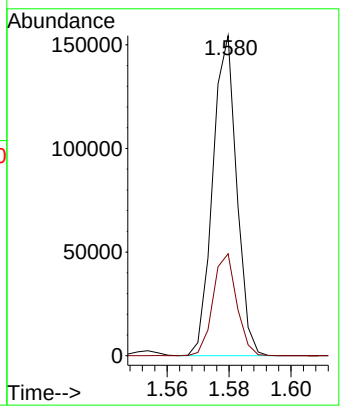


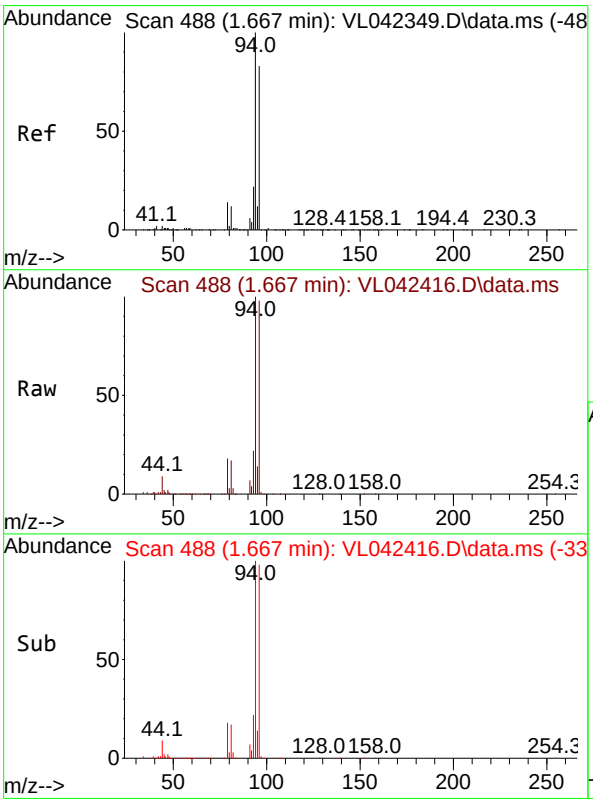

#5
Vinyl Chloride
Concen: 8.925 ppbv
RT: 1.580 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 62 Resp: 82863

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.8 | 25.4 | 38.0 |

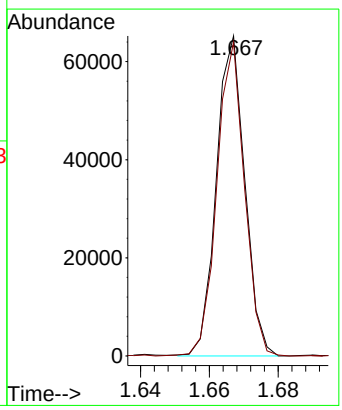


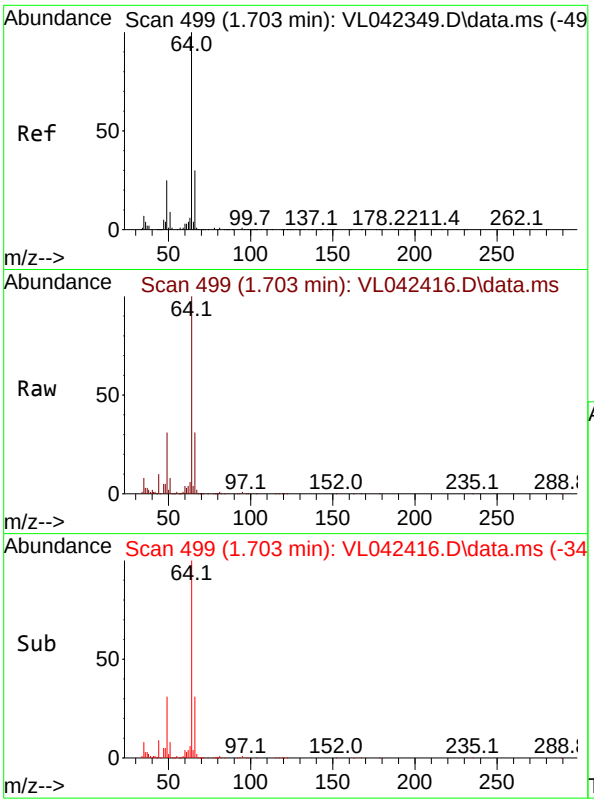




#6
Bromomethane
Concen: 9.376 ppbv
RT: 1.667 min Scan# 488
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 94 Resp: 37396

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 97.7 | 66.2 | 99.2 |



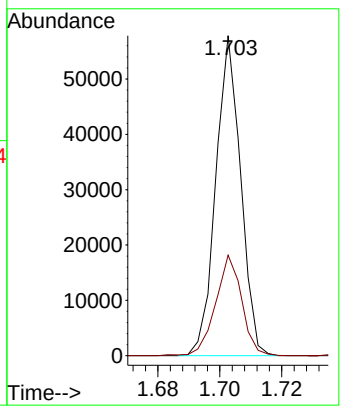


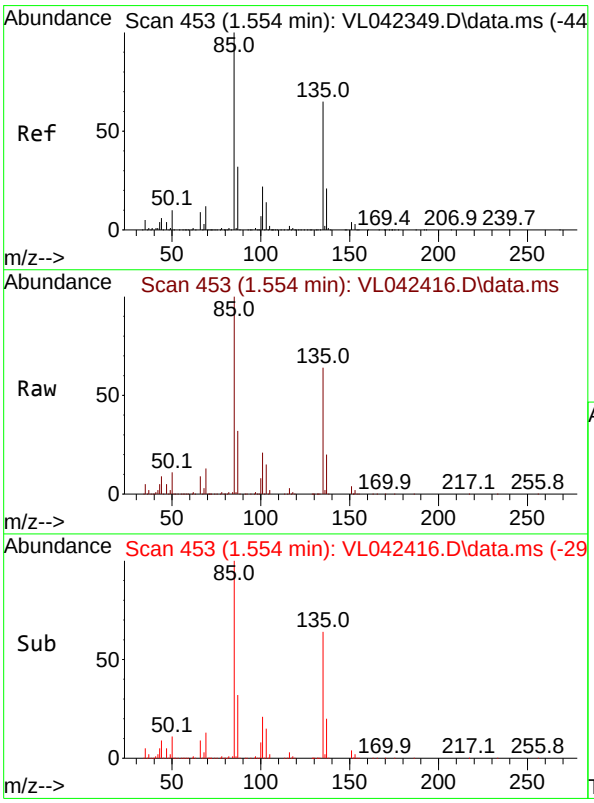

#7
Chloroethane
Concen: 9.600 ppbv
RT: 1.703 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 64 Resp: 32235

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 31.4 | 24.6 | 37.0 |

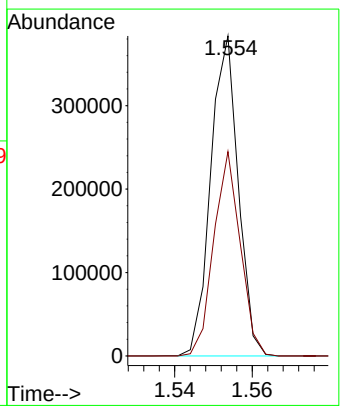


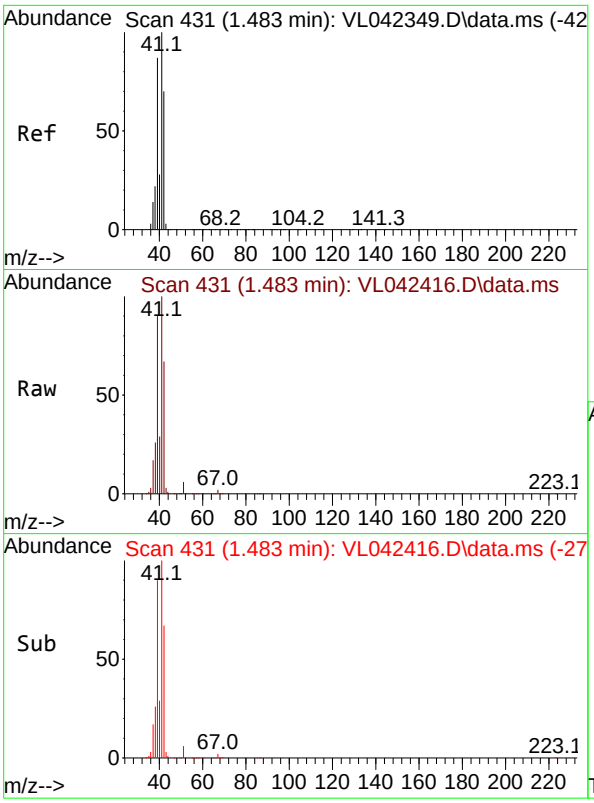




#8
Dichlorotetrafluoroethane
Concen: 10.223 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 85 Resp: 189174

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 61.6 | 52.2 | 78.2 |



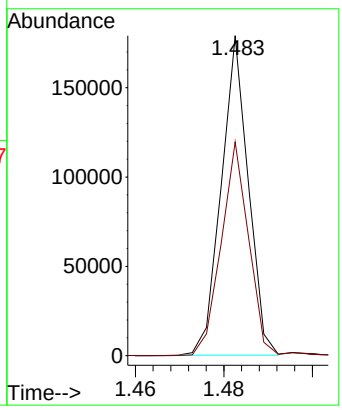


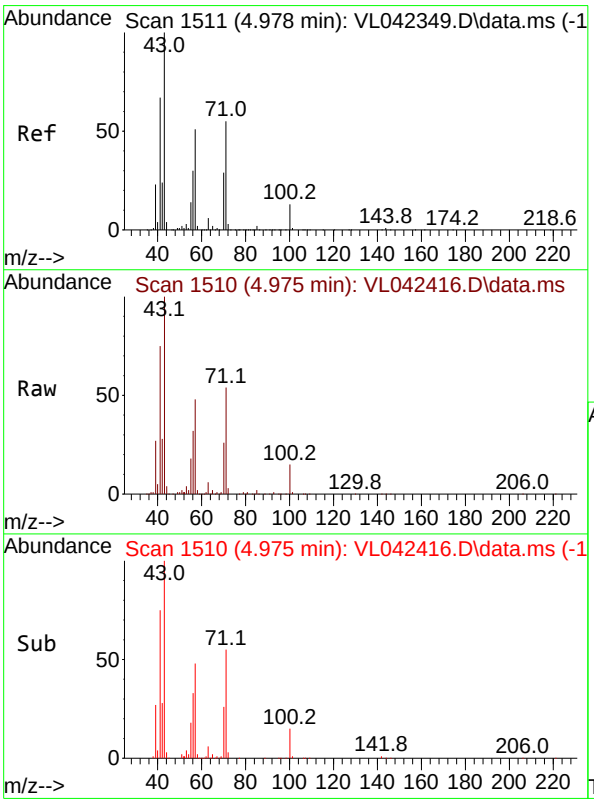

#9
Propene
Concen: 8.131 ppbv
RT: 1.483 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 41 Resp: 75996

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 69.0 | 56.2 | 84.4 |

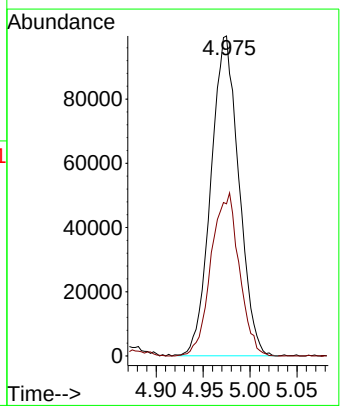


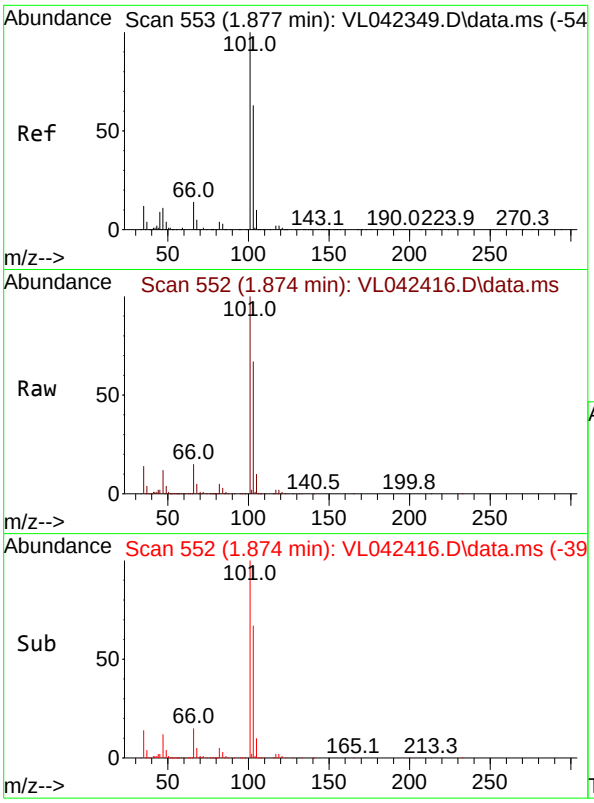




#10
Heptane
Concen: 7.837 ppbv
RT: 4.975 min Scan# 1510
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 43 Resp: 205785

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 51.3 | 39.9 | 59.9 |



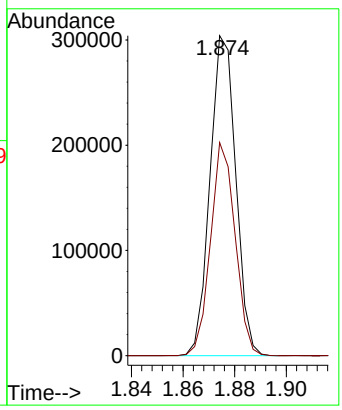


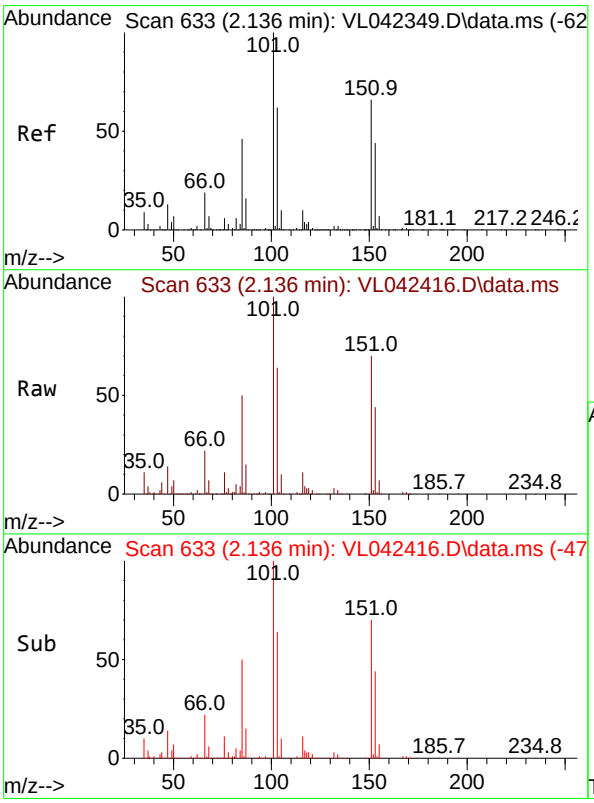

#11
Trichlorofluoromethane
Concen: 10.286 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:101 Resp: 210830

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 66.6 | 50.1 | 75.1 |

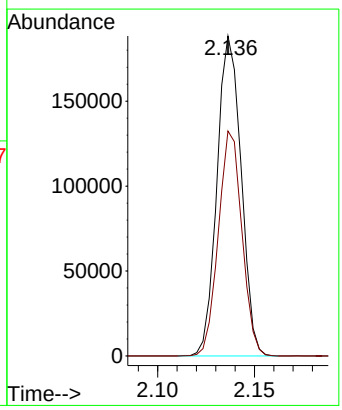


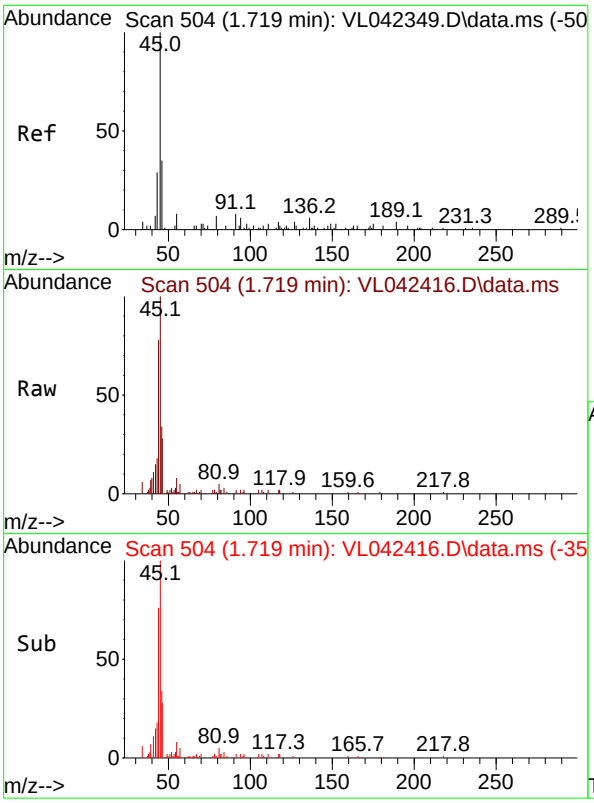




#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.733 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion:101 Resp: 163109

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 68.6 | 57.0 | 85.6 |



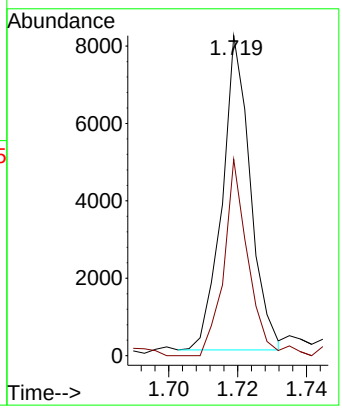


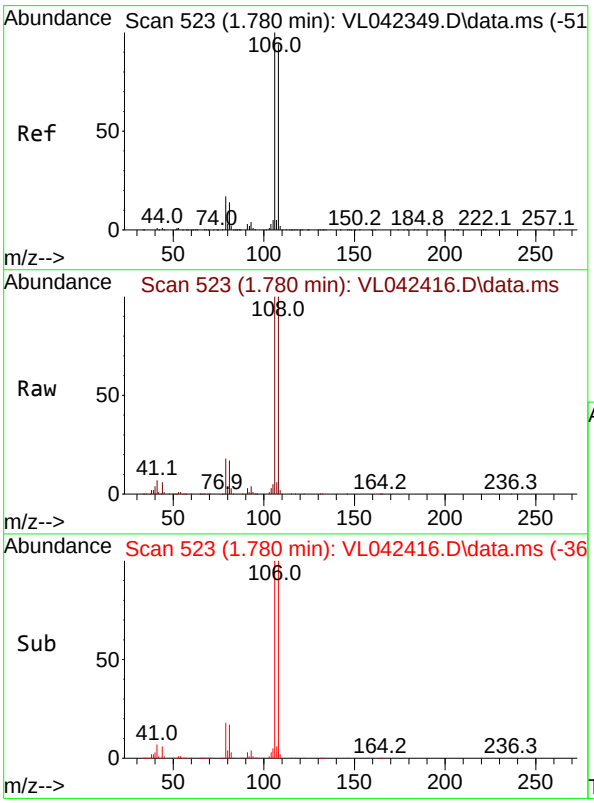

#13
Ethanol
Concen: 3.104 ppbv
RT: 1.719 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 45 Resp: 4612

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 56.4 | 21.9 | 87.7 |

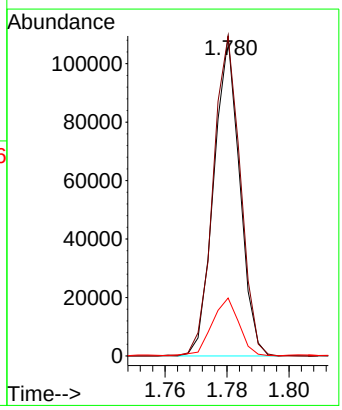


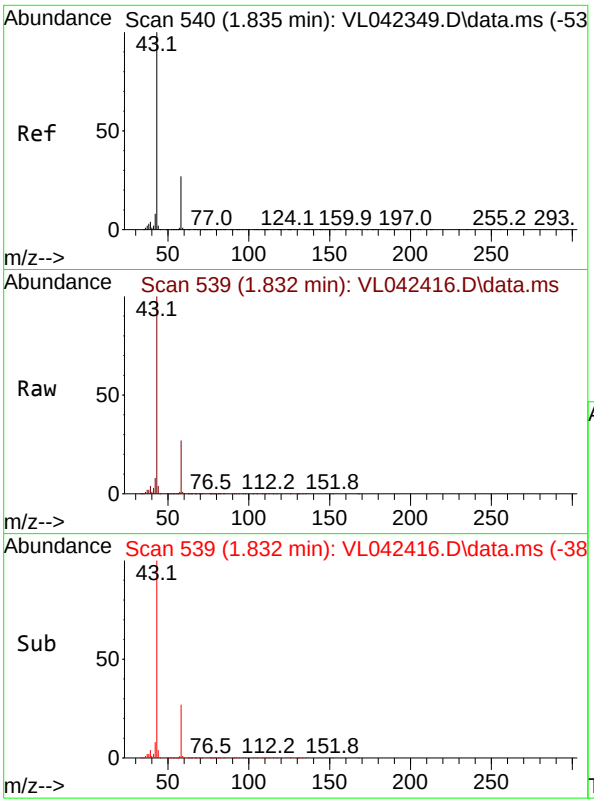




#14
Bromoethene
Concen: 10.010 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion:108 Resp: 63235

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 106 | 105.2 | 85.9 | 128.9 |
| 79 | 20.7 | 13.9 | 20.9 |



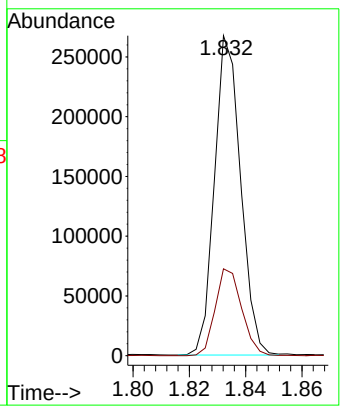


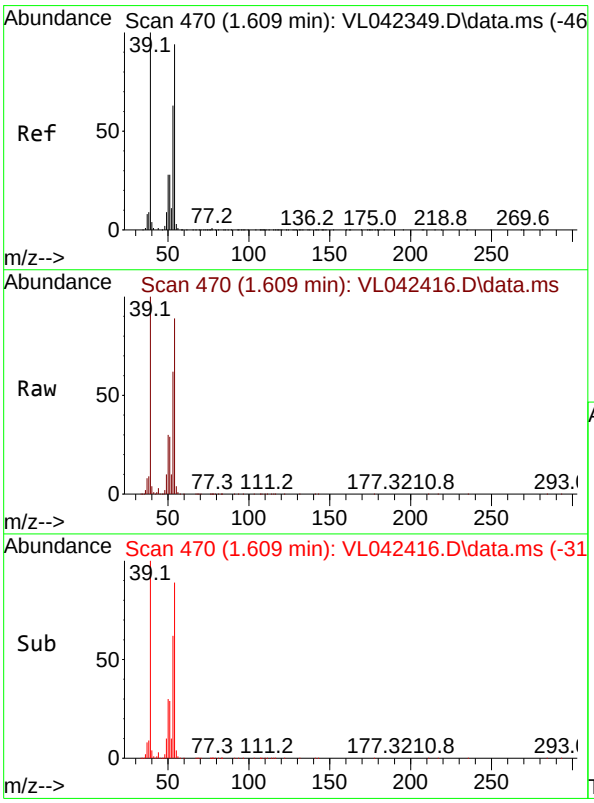

#15
Acetone
Concen: 8.623 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 43 Resp: 172207

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 27.7 | 22.4 | 33.6 |

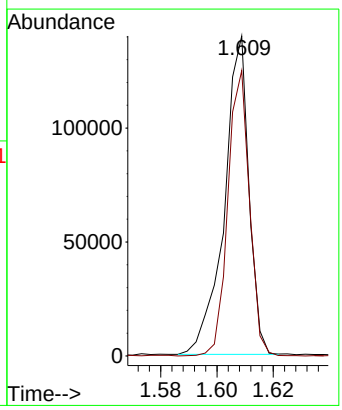


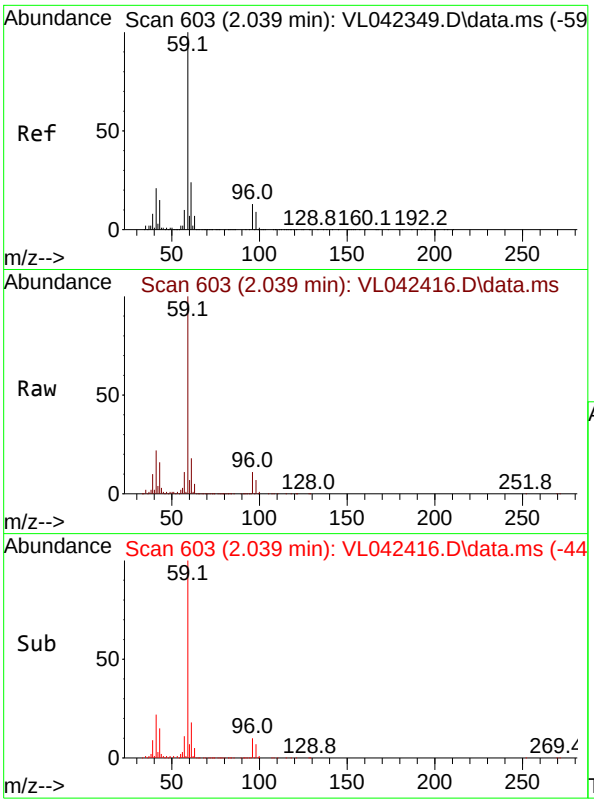




#16
1,3-Butadiene
Concen: 8.880 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 39 Resp: 84816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 79.2 | 64.9 | 97.3 |



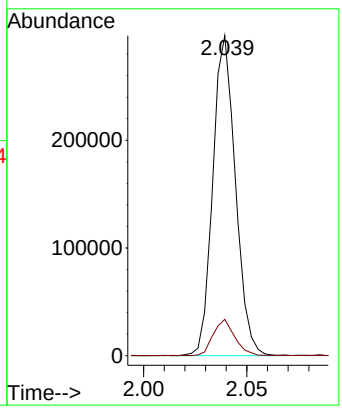


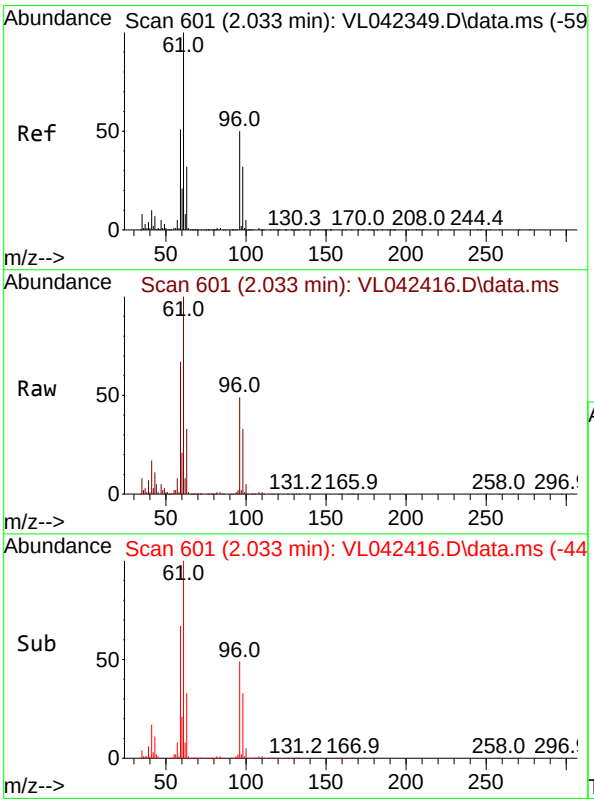

#17
tert-Butyl alcohol
Concen: 9.164 ppbv
RT: 2.039 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 59 Resp: 226804

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.8 | 8.7 | 13.1 |

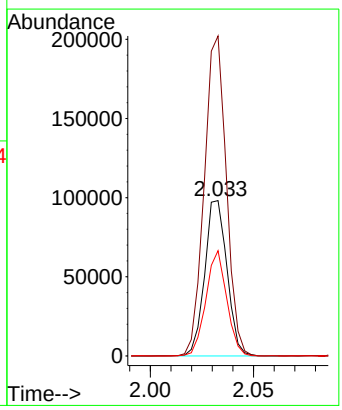


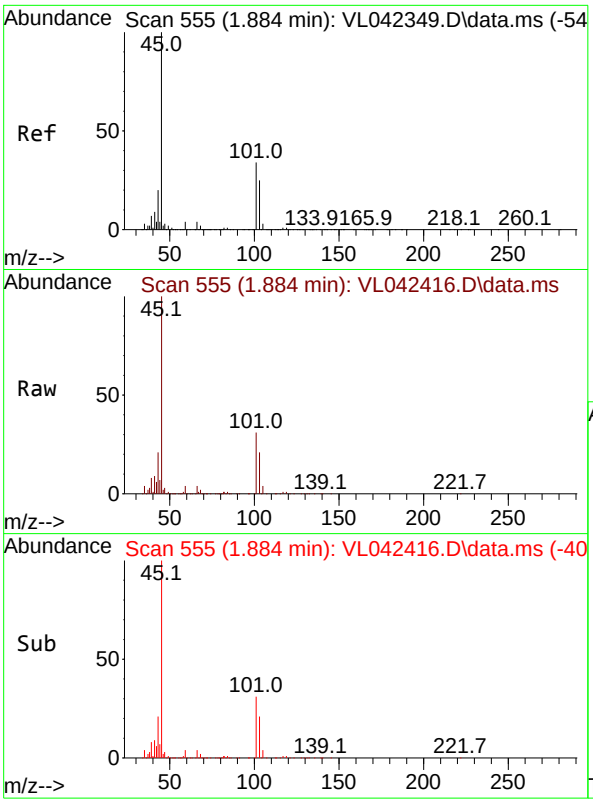




#18
1,1-Dichloroethene
Concen: 9.420 ppbv
RT: 2.033 min Scan# 601
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 96 Resp: 73751

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 205.9 | 160.2 | 240.2 |
| 98 | 67.8 | 51.0 | 76.4 |



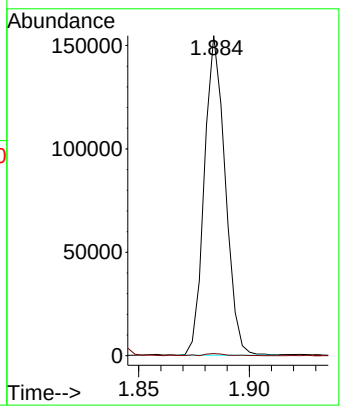


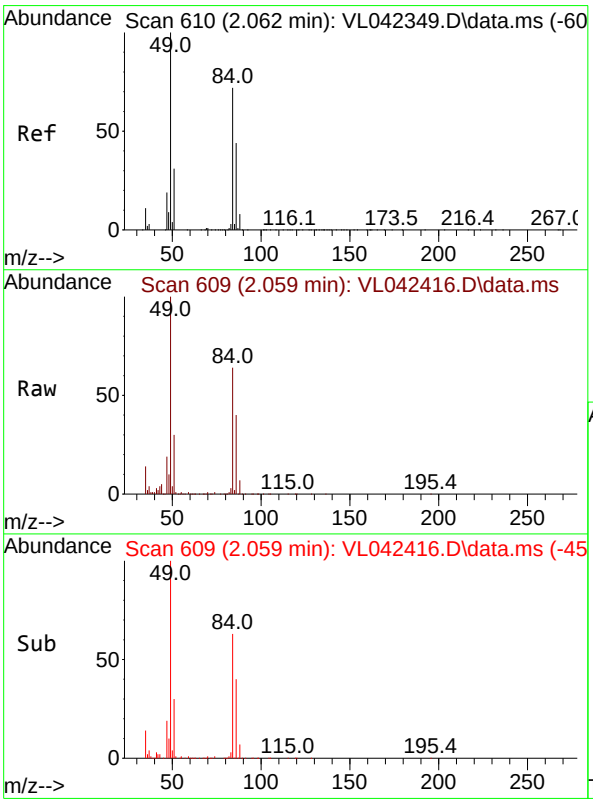

#19
Isopropyl Alcohol
Concen: 9.105 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 45 Resp: 101011

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 47.3 | 34.5 | 51.7 |

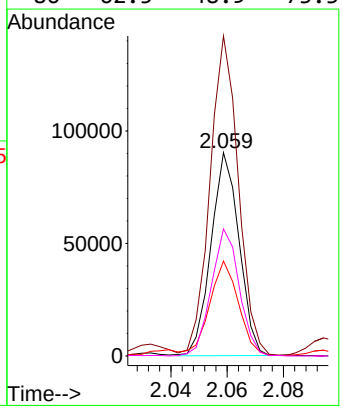


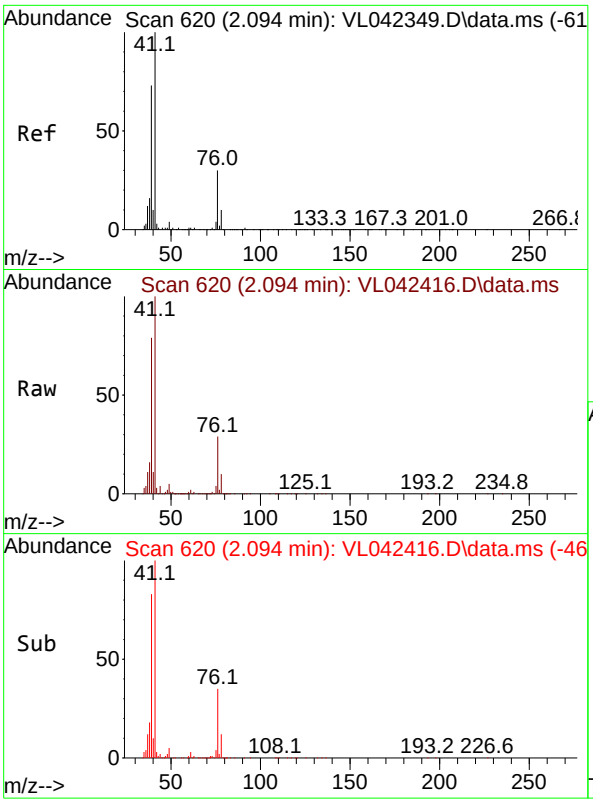




#20
Methylene Chloride
Concen: 7.992 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 84 Resp: 62506

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 157.3 | 111.6 | 167.4 |
| 51 | 46.5 | 35.1 | 52.7 |
| 86 | 62.5 | 48.9 | 73.3 |



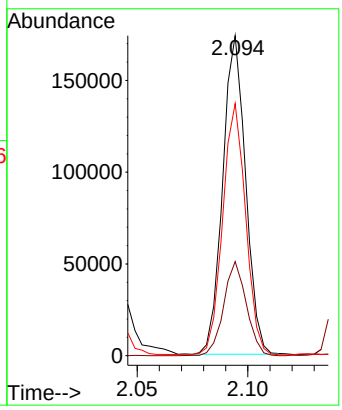


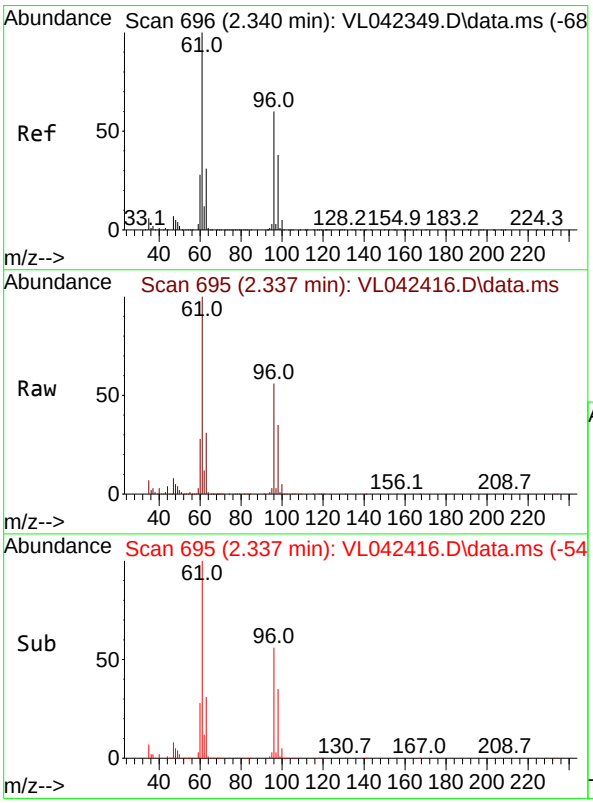

#21
Allyl Chloride
Concen: 9.081 ppbv
RT: 2.094 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 41 Resp: 125215

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 29.2 | 24.8 | 37.2 |
| 39 | 78.4 | 60.6 | 90.8 |

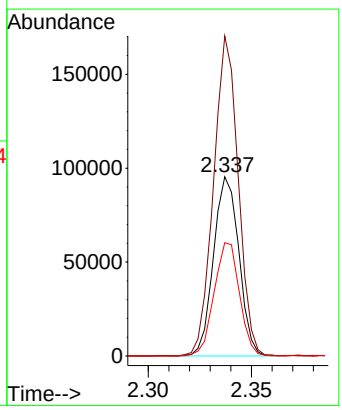


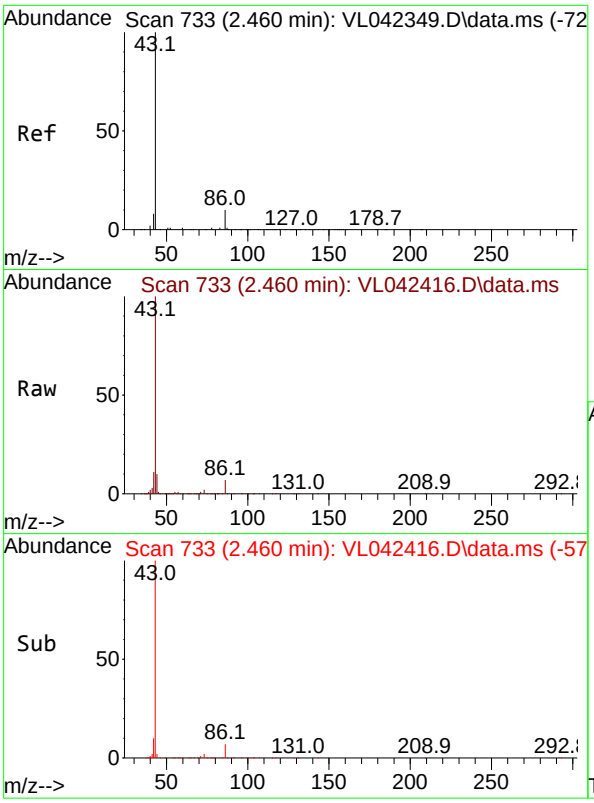




#22
trans-1,2-Dichloroethene
Concen: 9.153 ppbv
RT: 2.337 min Scan# 695
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 96 Resp: 81589

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 178.4 | 133.7 | 200.5 |
| 98 | 63.2 | 50.3 | 75.5 |



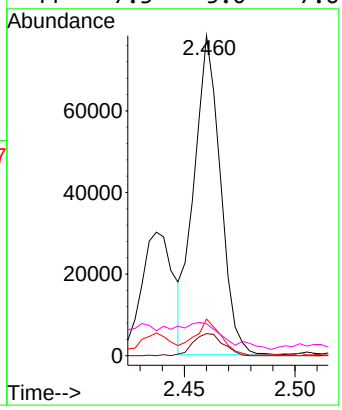


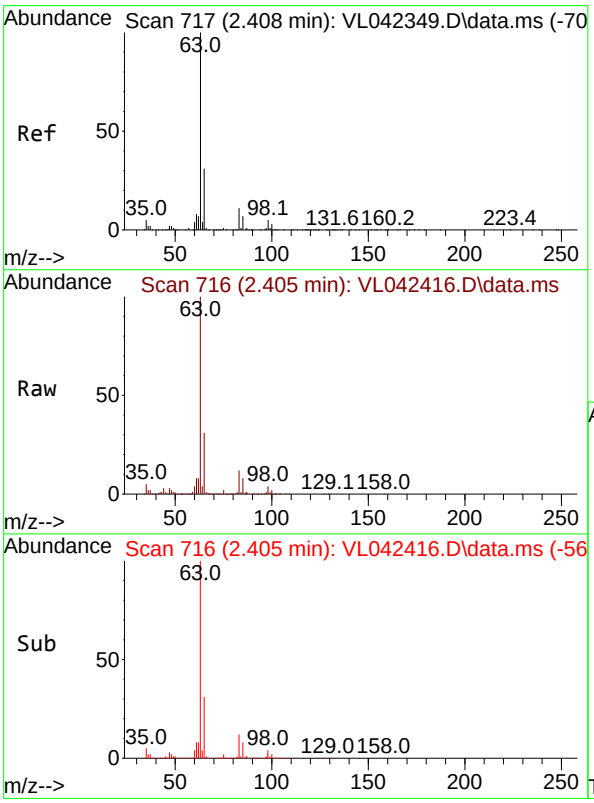

#23
Vinyl Acetate
Concen: 8.030 ppbv
RT: 2.460 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 43 Resp: 64907

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 6.9 | 6.5 | 9.7 |
| 42 | 11.1 | 7.8 | 11.8 |
| 44 | 7.3 | 5.0 | 7.6 |

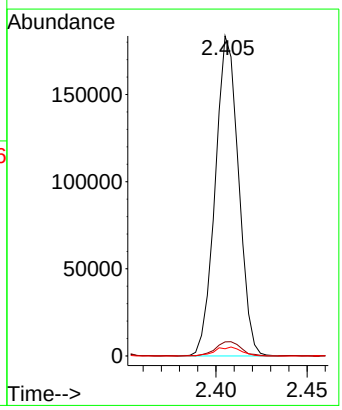


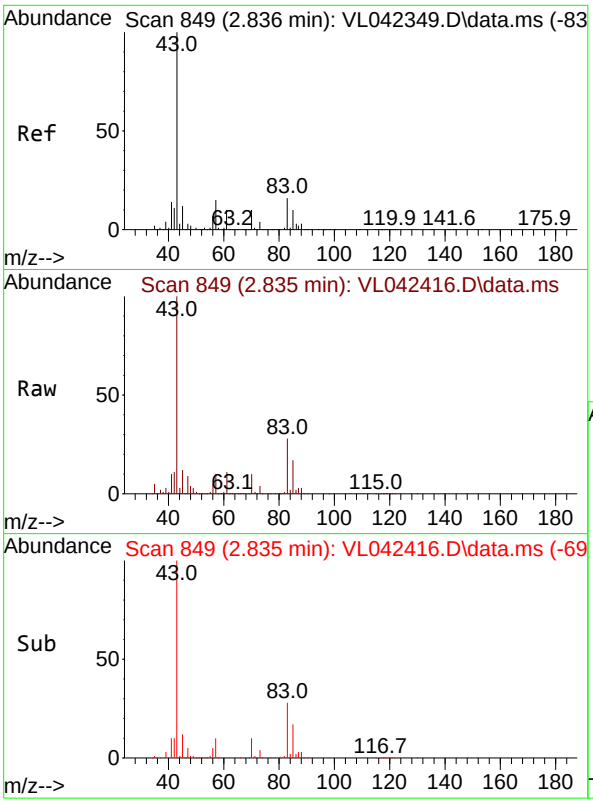




#24
1,1-Dichloroethane
Concen: 9.634 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 63 Resp: 163124

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 4.4 | 2.3 | 6.8 |
| 100 | 2.2 | 1.6 | 4.8 |



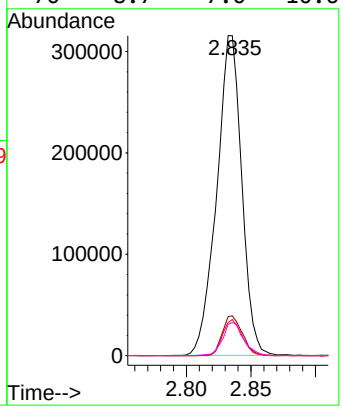


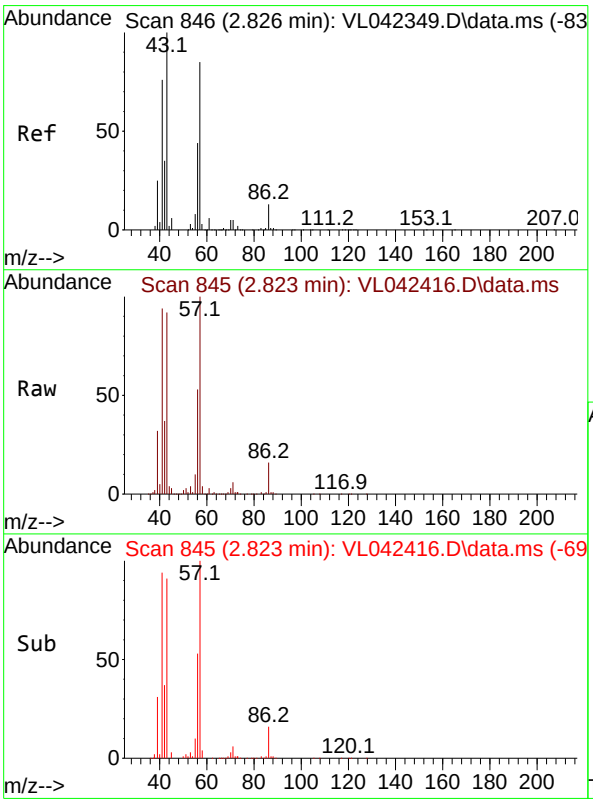

#25
Ethyl Acetate
Concen: 8.634 ppbv
RT: 2.835 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 43 Resp: 425121

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 10.1 | 8.3 | 12.5 |
| 61 | 8.9 | 7.3 | 10.9 |
| 70 | 8.7 | 7.0 | 10.6 |

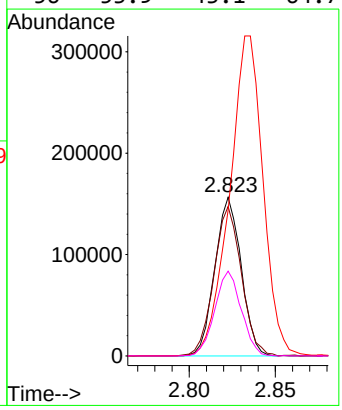


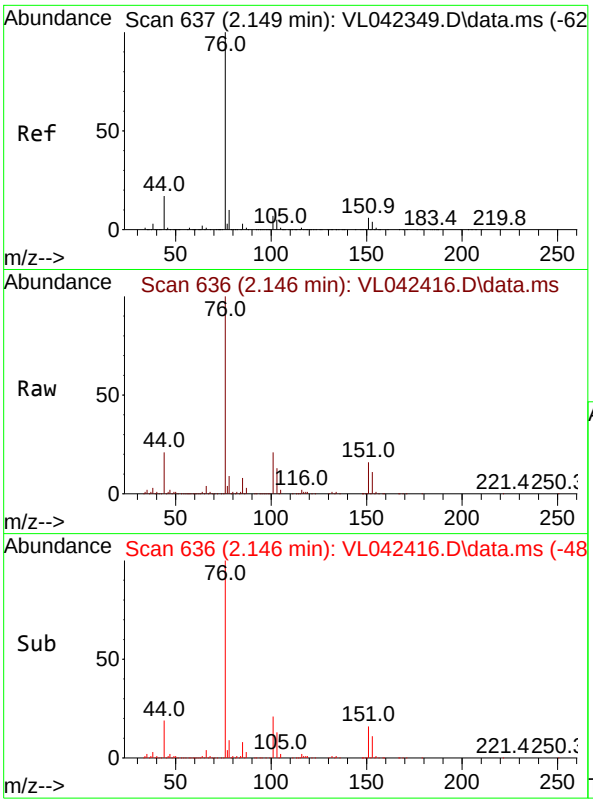




#26
Hexane
Concen: 8.370 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 57 Resp: 166789

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 98.4 | 77.9 | 116.9 |
| 43 | 256.1 | 208.4 | 312.6 |
| 56 | 53.9 | 43.1 | 64.7 |



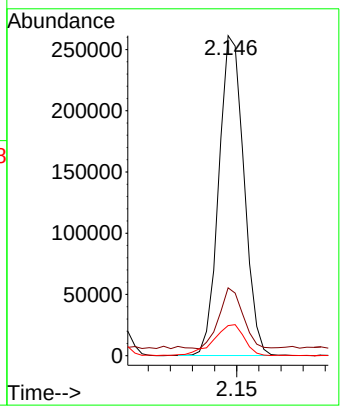


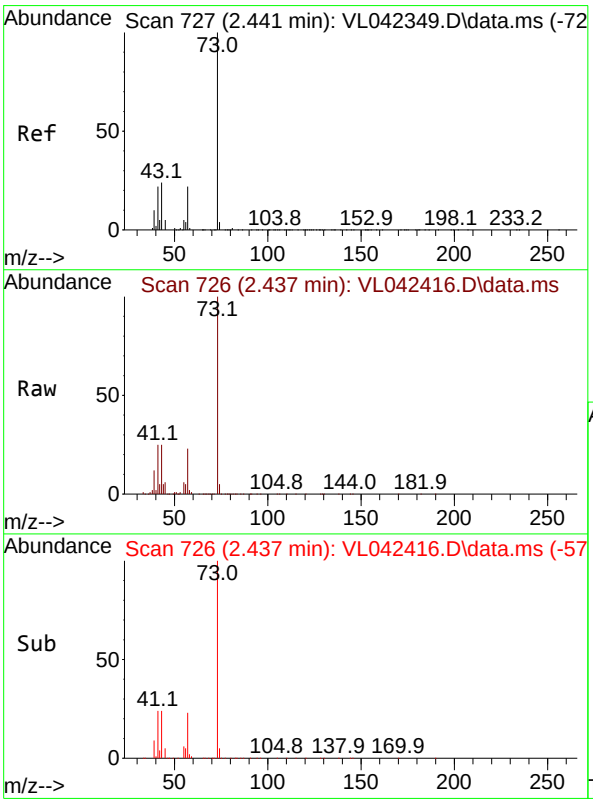

#27
Carbon Disulfide
Concen: 9.637 ppbv
RT: 2.146 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 76 Resp: 205605

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 22.2 | 15.5 | 23.3 |
| 78 | 12.1 | 9.3 | 13.9 |

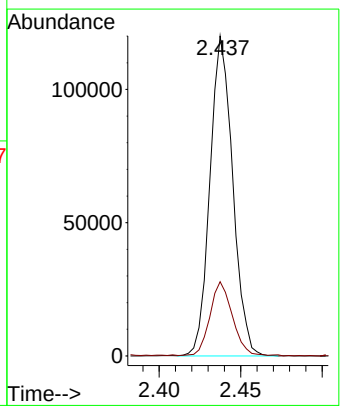


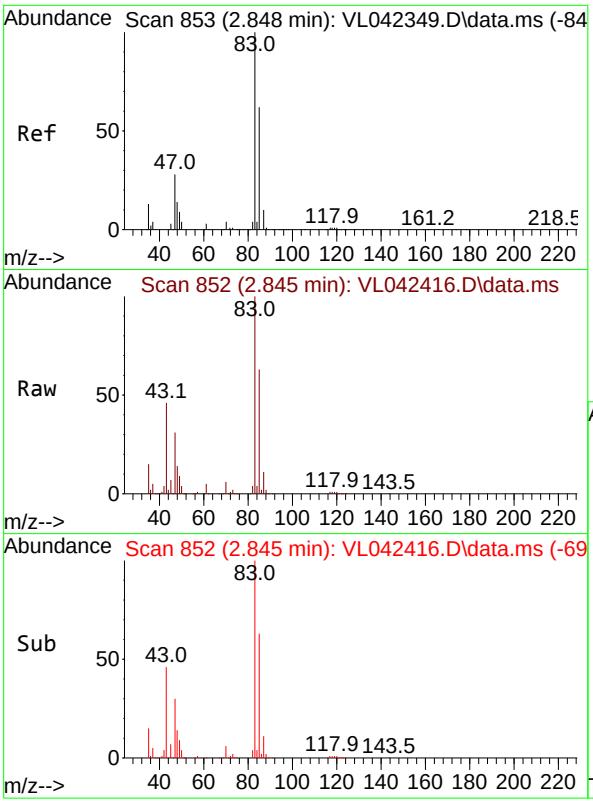




#28
Methyl tert-Butyl Ether
Concen: 8.922 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 73 Resp: 116474

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 23.1 | 21.3 | 31.9 |



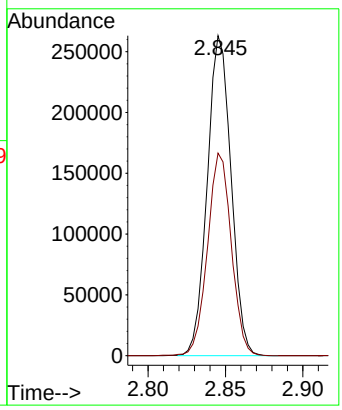


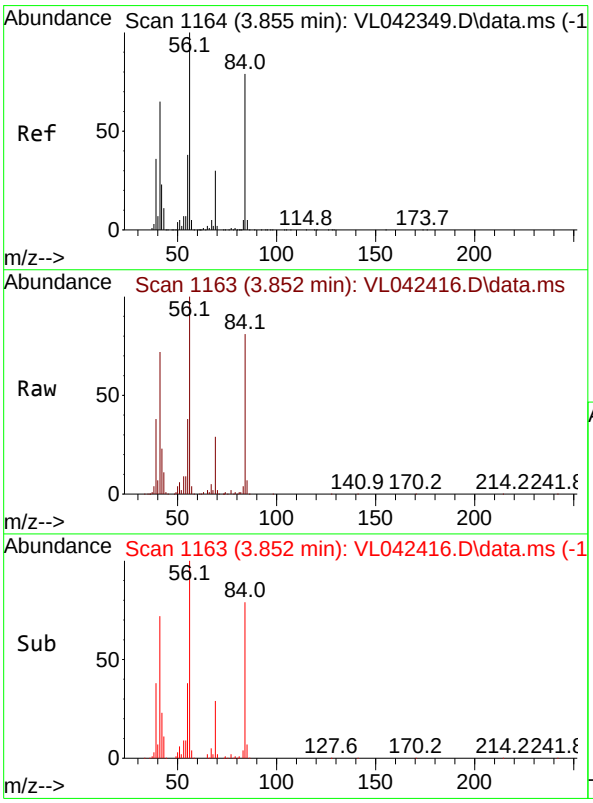

#29
Chloroform
Concen: 9.975 ppbv
RT: 2.845 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 83 Resp: 280938

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.3 | 50.0 | 75.0 |

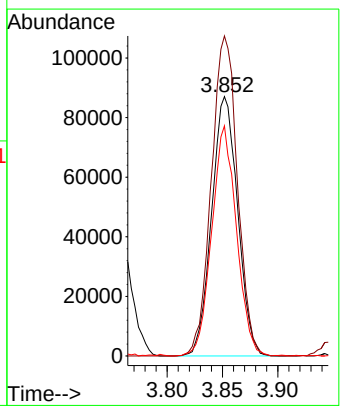


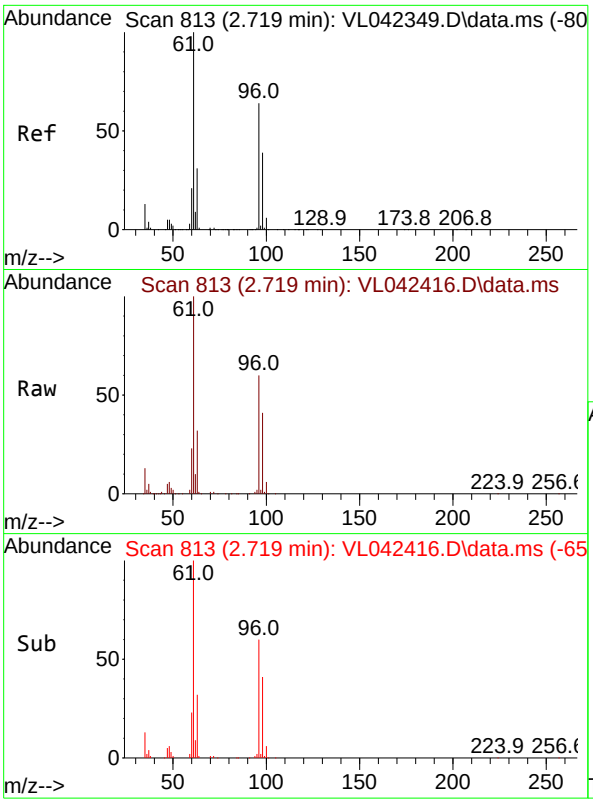




#30
Cyclohexane
Concen: 8.849 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 84 Resp: 142532

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 123.7 | 101.0 | 151.4 |
| 41 | 84.7 | 67.4 | 101.0 |



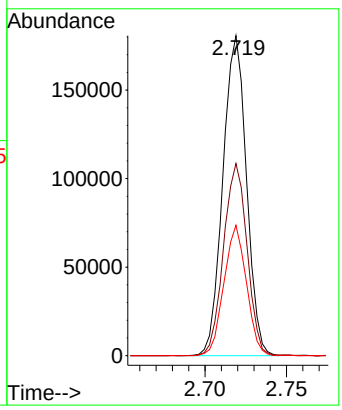


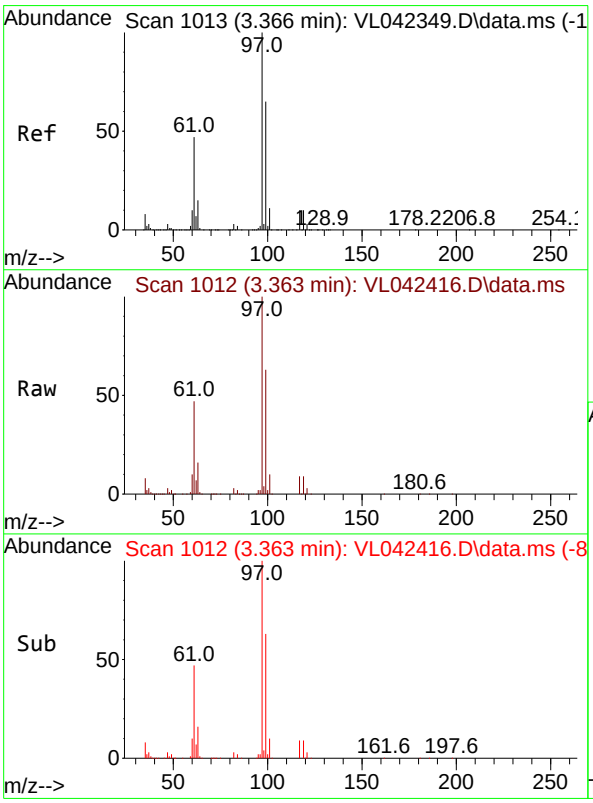

#31
cis-1,2-Dichloroethene
Concen: 9.581 ppbv
RT: 2.719 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 61 Resp: 181514

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 60.1 | 50.8 | 76.2 |
| 98 | 40.8 | 30.9 | 46.3 |

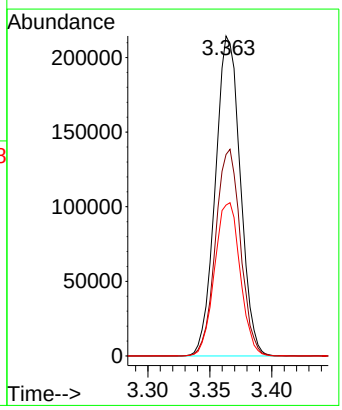


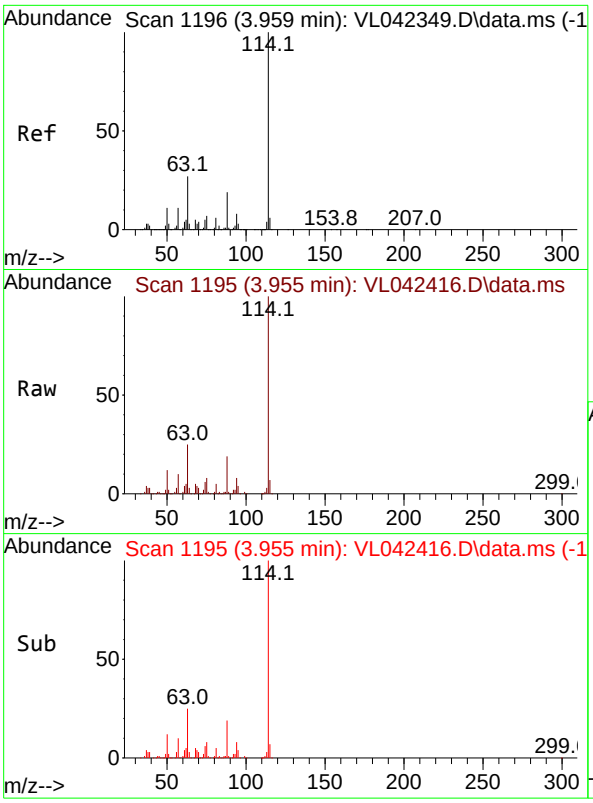




#32
1,1,1-Trichloroethane
Concen: 9.501 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 97 Resp: 301259

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.6 | 51.0 | 76.4 |
| 61 | 49.3 | 38.8 | 58.2 |



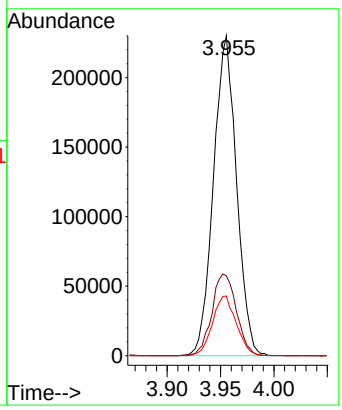


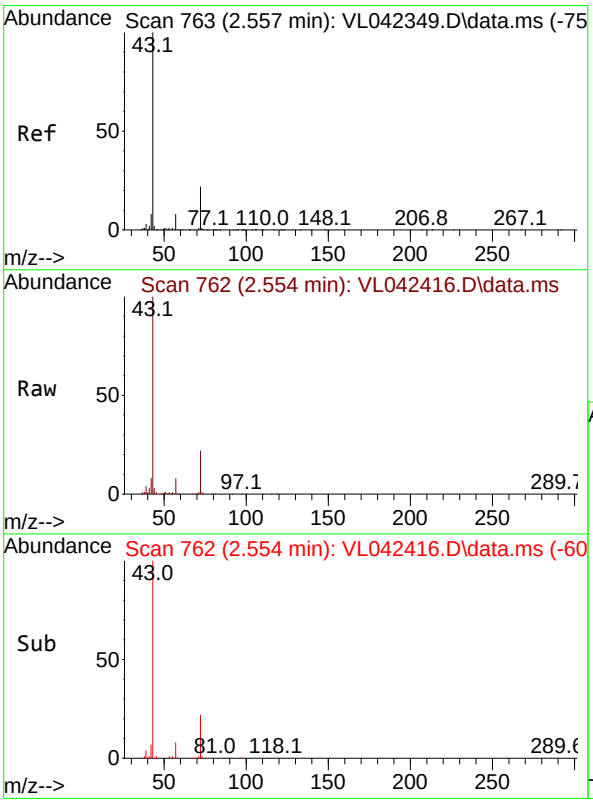

#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:114 Resp: 345031

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 27.2 | 21.8 | 32.6 |
| 88 | 19.2 | 15.5 | 23.3 |

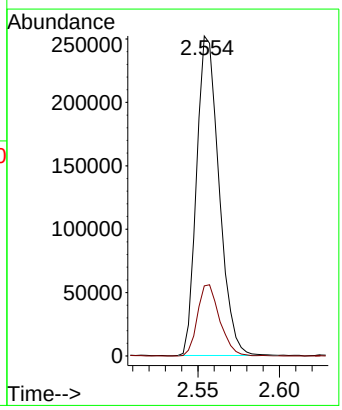


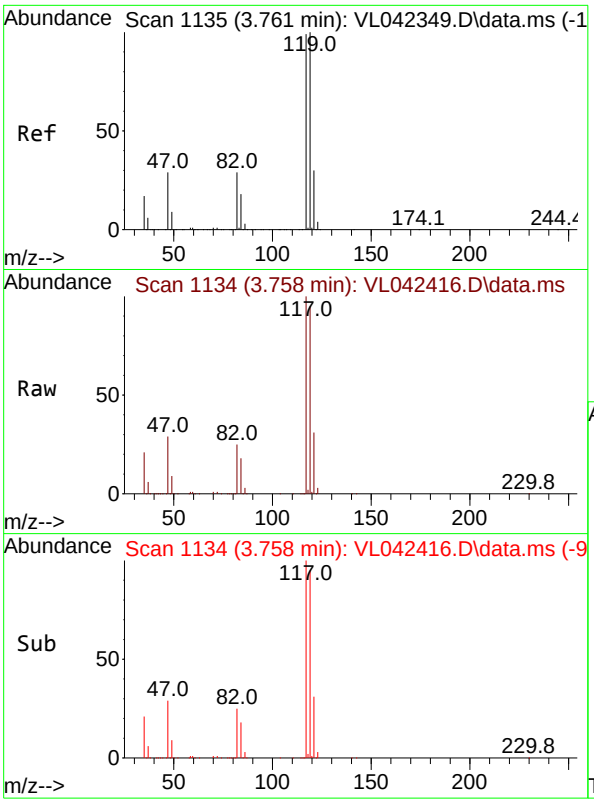




#34
2-Butanone
Concen: 8.834 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 43 Resp: 241047

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 22.1 | 18.2 | 27.2 |



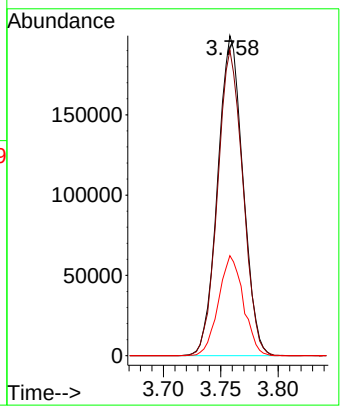


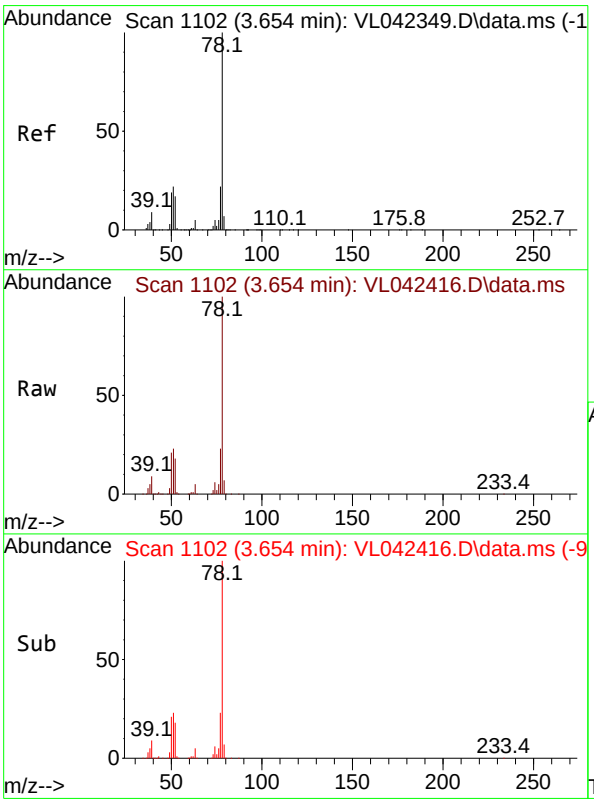

#35
Carbon Tetrachloride
Concen: 9.783 ppbv
RT: 3.758 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:117 Resp: 305477

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 95.4 | 80.5 | 120.7 |
| 121 | 31.3 | 24.2 | 36.2 |

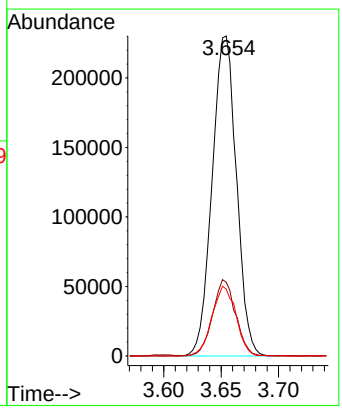


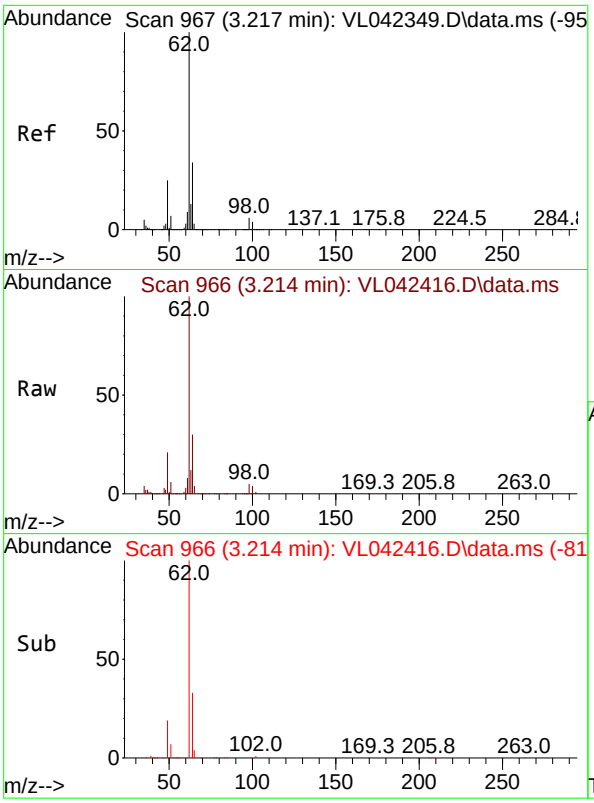




#36
Benzene
Concen: 9.102 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 78 Resp: 338736

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.0 | 17.4 | 26.0 |
| 50 | 20.9 | 15.5 | 23.3 |



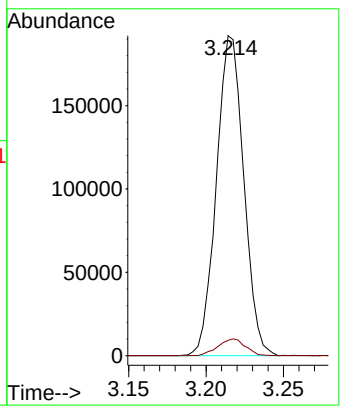


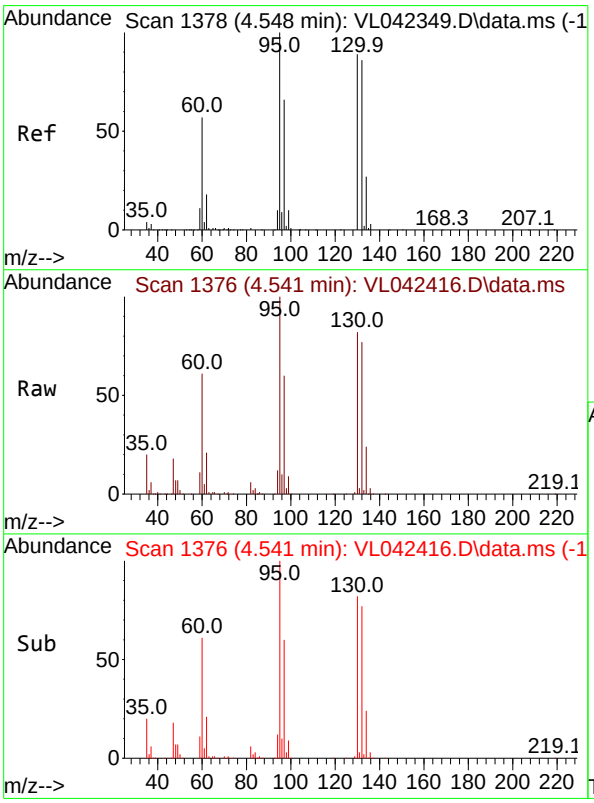

#37
1,2-Dichloroethane
Concen: 10.564 ppbv
RT: 3.214 min Scan# 9
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 62 Resp: 235966

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 5.3 | 5.1 | 7.7 |

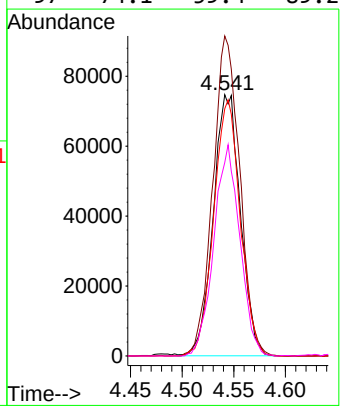


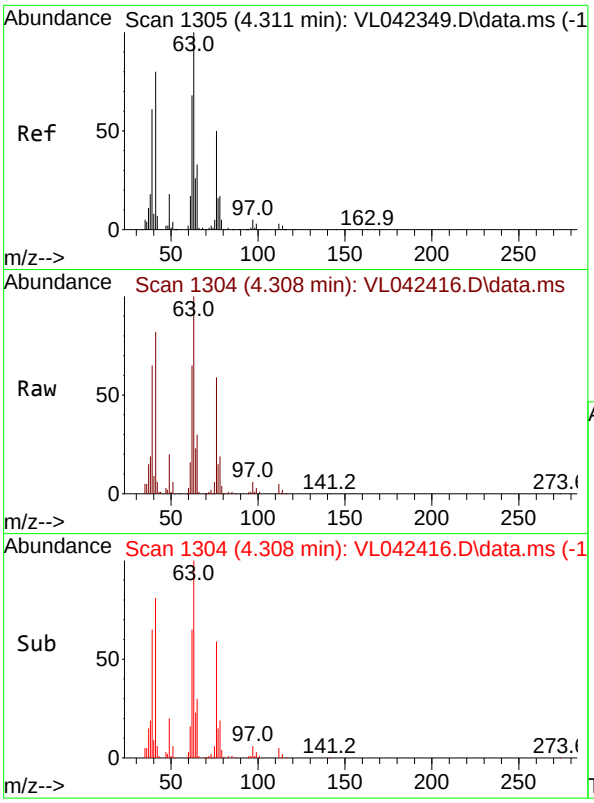




#38
Trichloroethene
Concen: 8.406 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. -0.007 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion:130 Resp: 136731

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 122.5 | 89.8 | 134.6 |
| 132 | 94.7 | 77.7 | 116.5 |
| 97 | 74.1 | 59.4 | 89.2 |



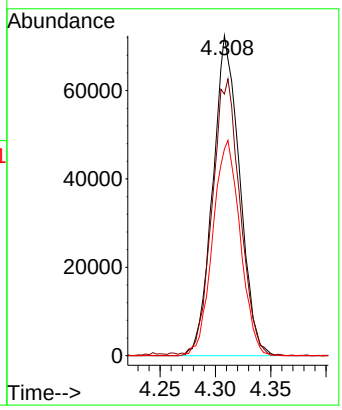


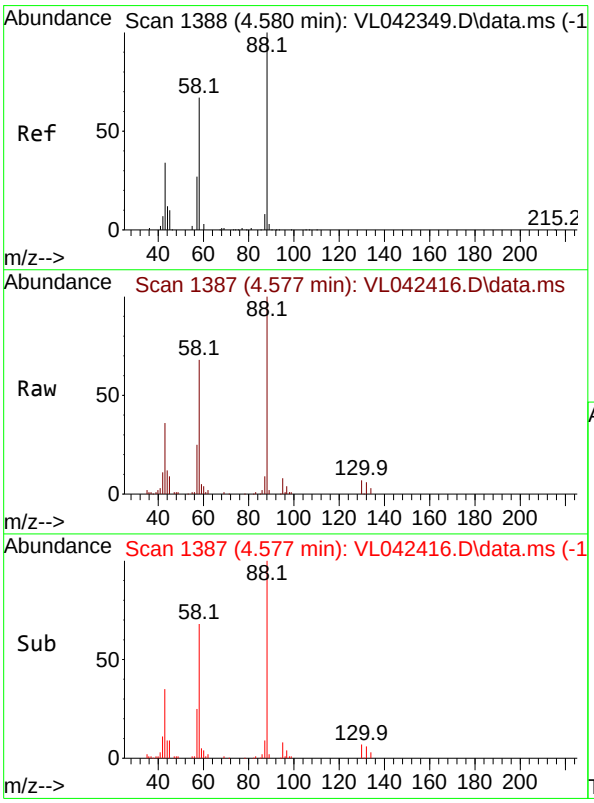

#39
1,2-Dichloropropane
Concen: 8.813 ppbv
RT: 4.308 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 63 Resp: 122213

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 81.2 | 64.2 | 96.2 |
| 62 | 64.6 | 54.3 | 81.5 |

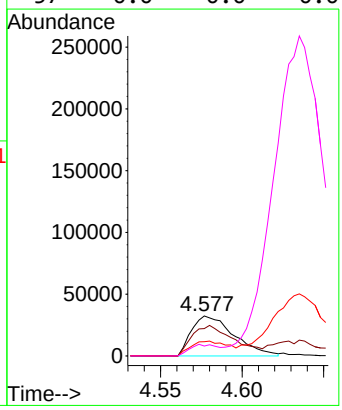


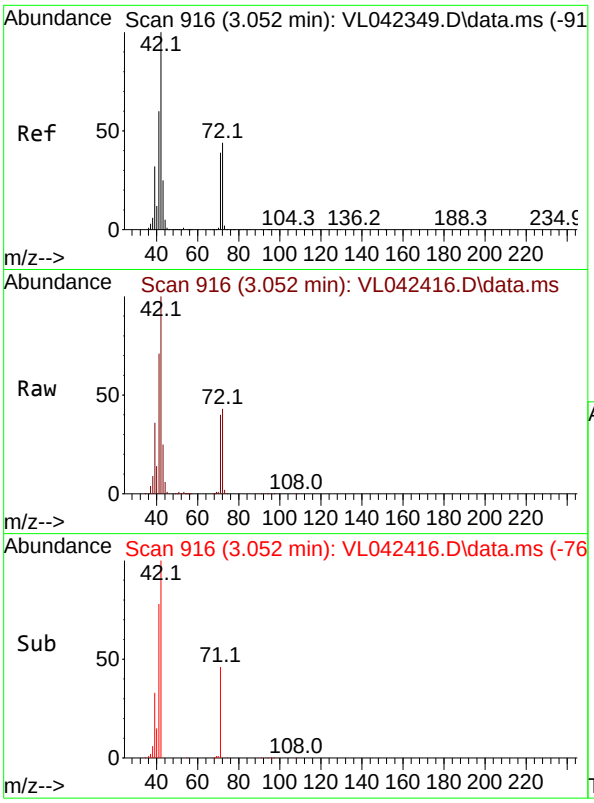




#40
1,4-Dioxane
Concen: 7.720 ppbv
RT: 4.577 min Scan# 1387
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 88 Resp: 58837

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 74.2 | 61.4 | 92.0 |
| 43 | 35.3 | 23.2 | 34.8# |
| 57 | 0.0 | 0.0 | 0.0 |



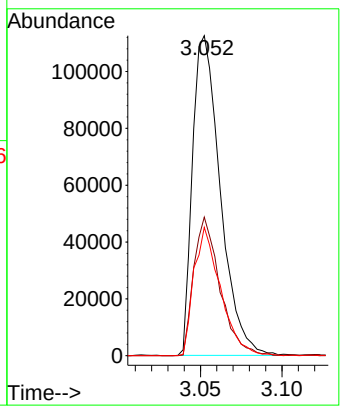


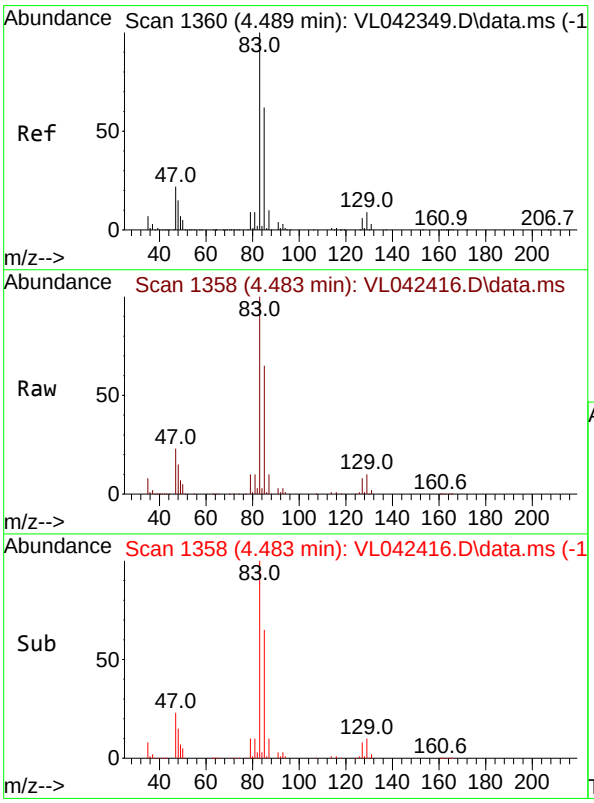

#41
Tetrahydrofuran
Concen: 8.363 ppbv
RT: 3.052 min Scan# 91
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 42 Resp: 133063

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 41.2 | 32.3 | 48.5 |
| 71 | 38.8 | 31.4 | 47.2 |

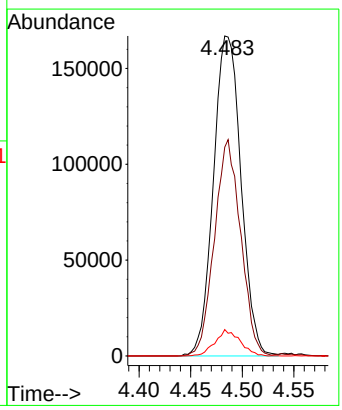


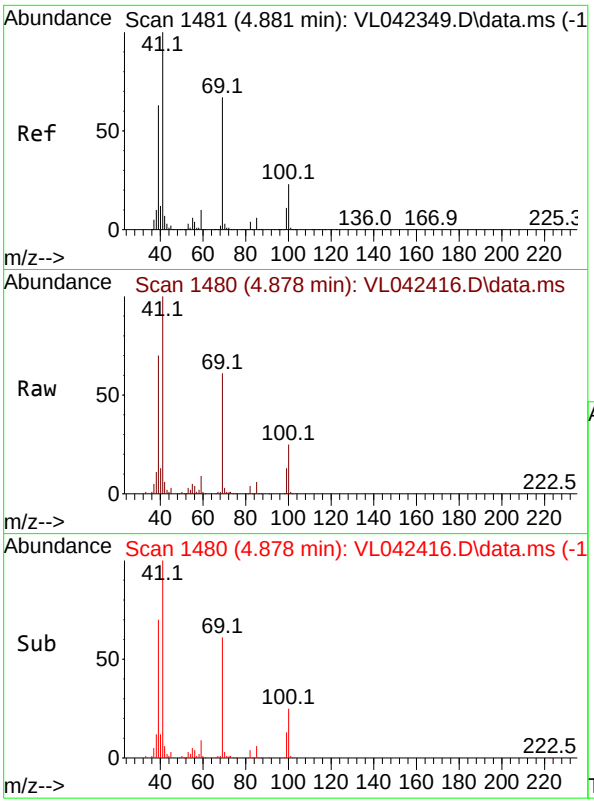




#42
Bromodichloromethane
Concen: 9.996 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. -0.006 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 83 Resp: 310726

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.3 | 49.7 | 74.5 |
| 127 | 8.3 | 5.1 | 7.7# |



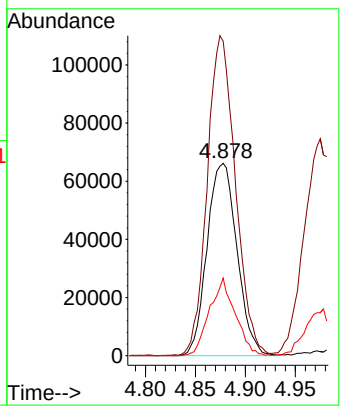


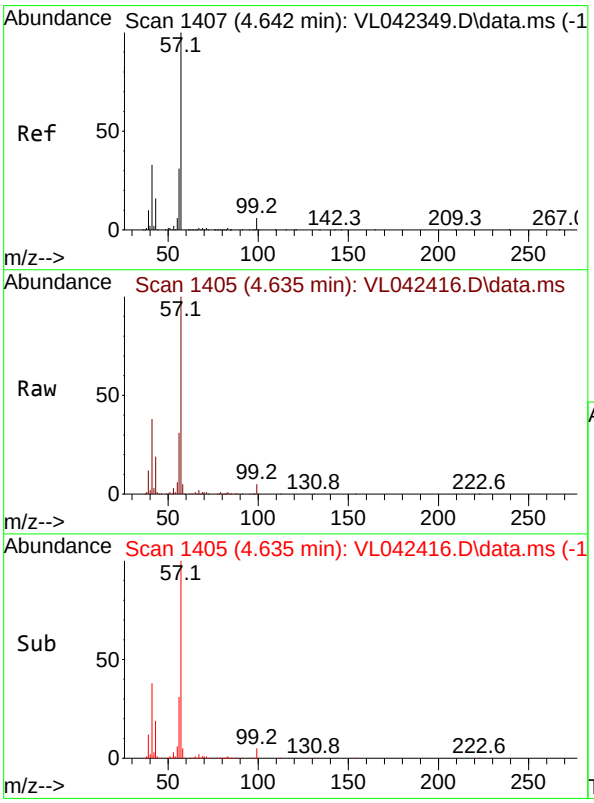

#43
Methyl Methacrylate
Concen: 8.230 ppbv
RT: 4.878 min Scan# 14
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 69 Resp: 138030

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 156.8 | 118.6 | 177.8 |
| 100 | 34.8 | 28.2 | 42.2 |

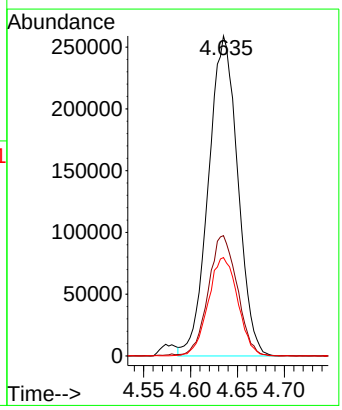


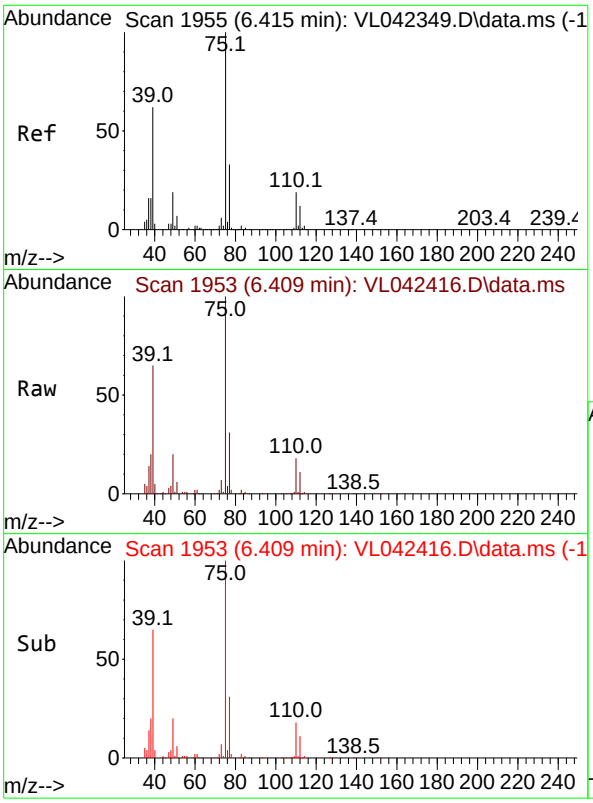




#44
2,2,4-Trimethylpentane
Concen: 8.750 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. -0.007 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 57 Resp: 562403

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 37.4 | 27.2 | 40.8 |
| 56 | 31.1 | 25.7 | 38.5 |



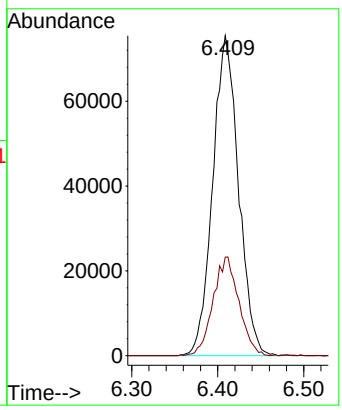


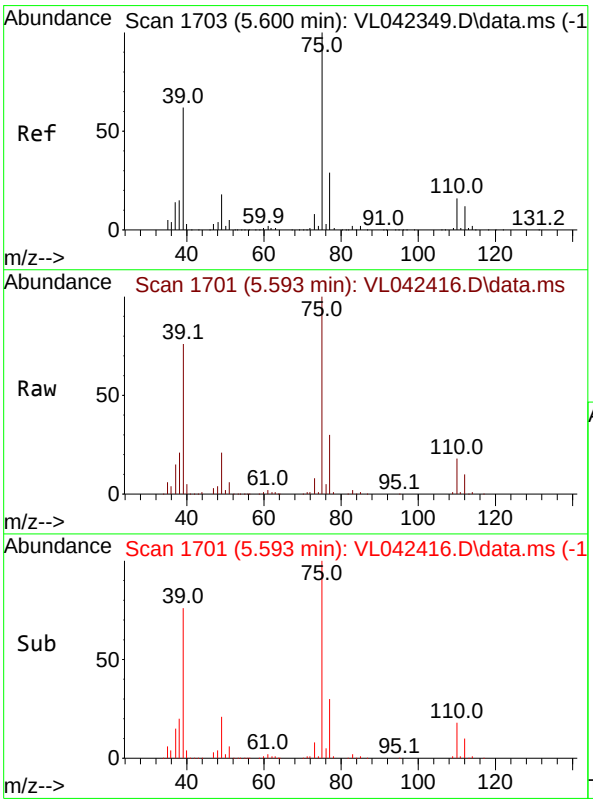

#45
t-1,3-Dichloropropene
Concen: 9.175 ppbv
RT: 6.409 min Scan# 1
Delta R.T. -0.006 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 75 Resp: 157191

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.8 | 27.0 | 40.6 |

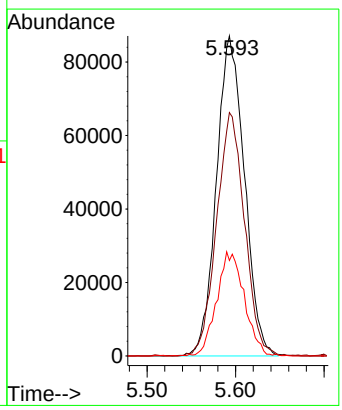


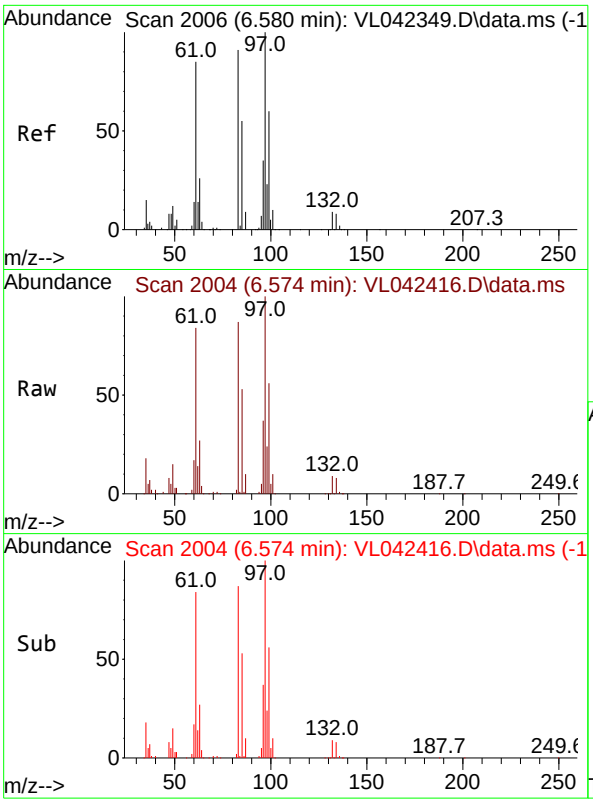




#46
cis-1,3-Dichloropropene
Concen: 9.117 ppbv
RT: 5.593 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 75 Resp: 191165

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 39 | 75.9 | 50.0 | 75.0# |
| 77 | 29.8 | 23.0 | 34.6 |



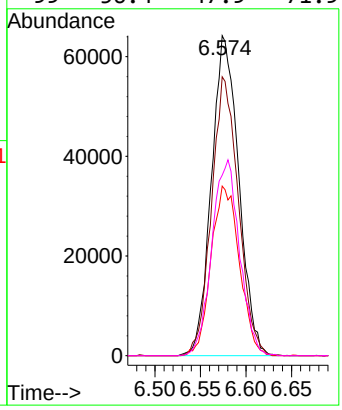


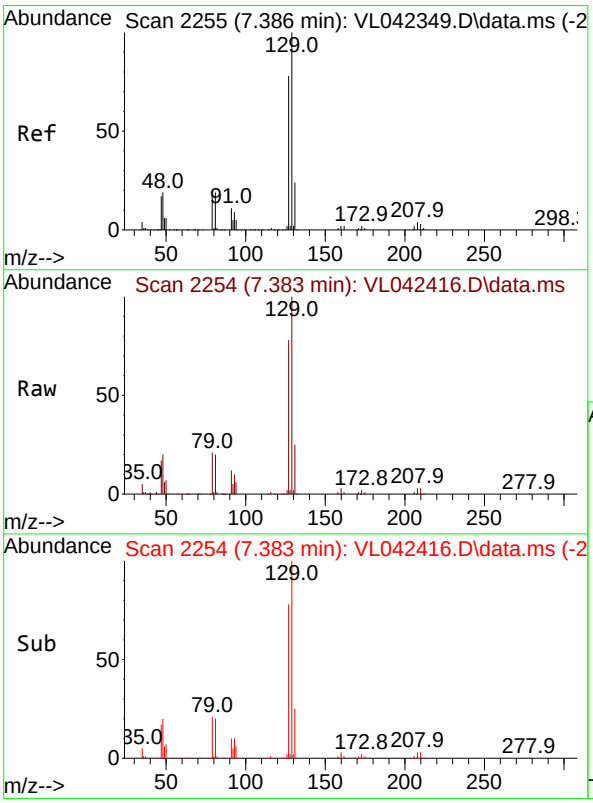

#47
1,1,2-Trichloroethane
Concen: 9.471 ppbv
RT: 6.574 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 97 Resp: 133821

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 87.2 | 72.8 | 109.2 |
| 85 | 53.0 | 44.2 | 66.4 |
| 99 | 56.4 | 47.9 | 71.9 |

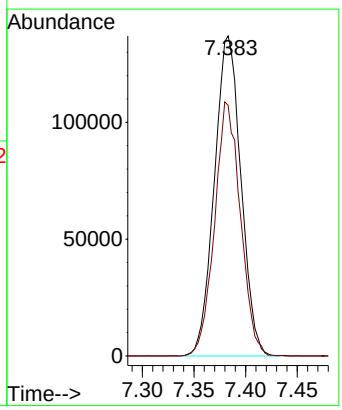


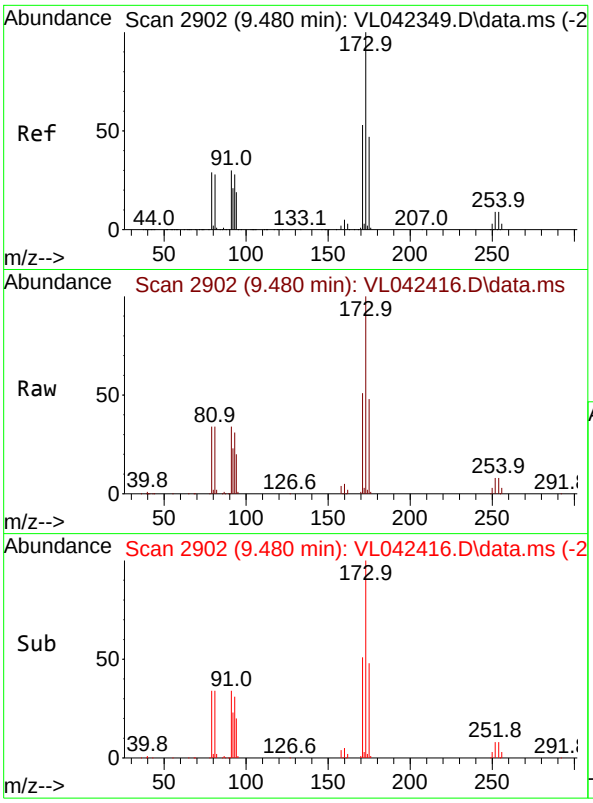




#48
Dibromochloromethane
Concen: 9.832 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion:129 Resp: 245439

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.0 | 39.1 | 117.3 |



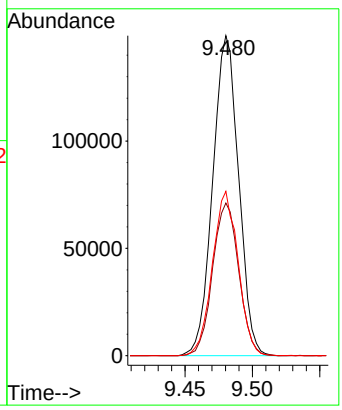


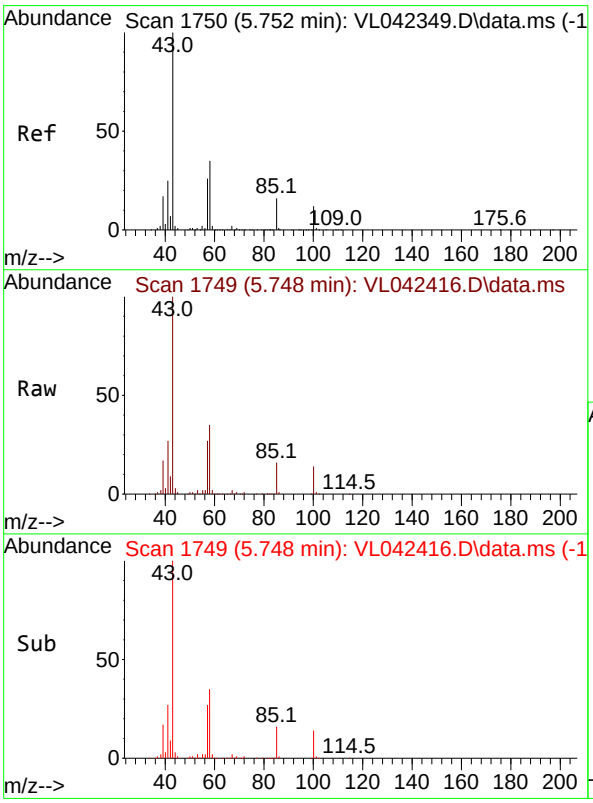

#49
Bromoform
Concen: 9.117 ppbv
RT: 9.480 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:173 Resp: 198991

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.2 | 38.2 | 57.2 |
| 171 | 51.0 | 40.9 | 61.3 |

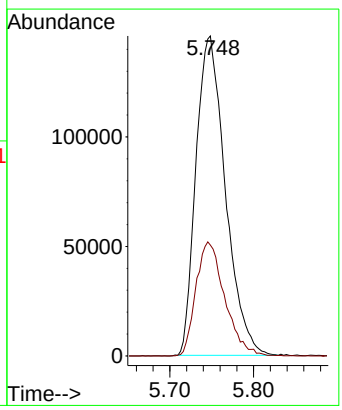


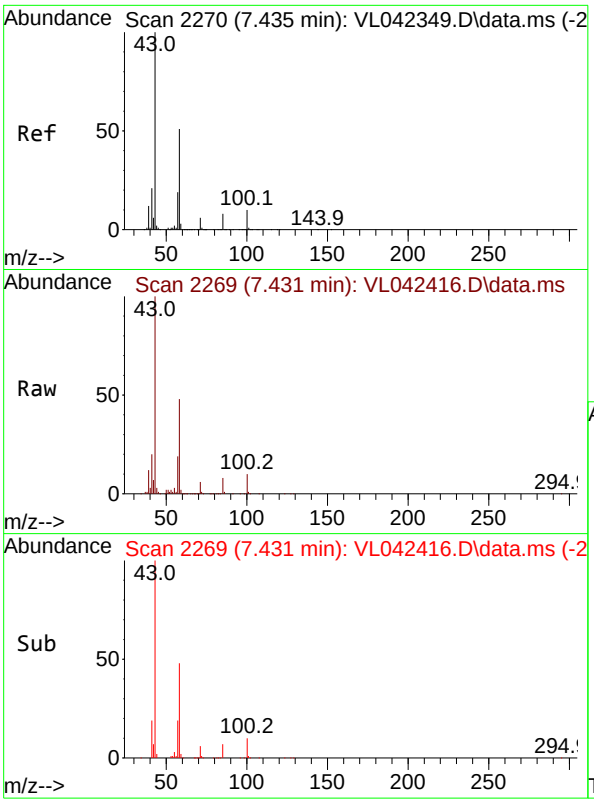




#50
4-Methyl-2-Pentanone
Concen: 7.854 ppbv
RT: 5.748 min Scan# 1749
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 43 Resp: 356129

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 35.1 | 28.6 | 43.0 |



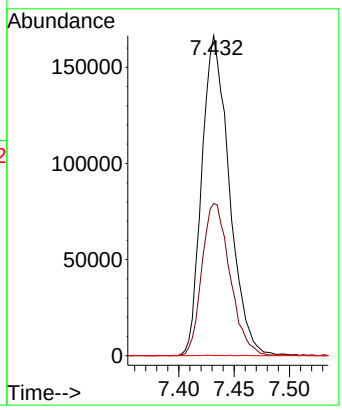


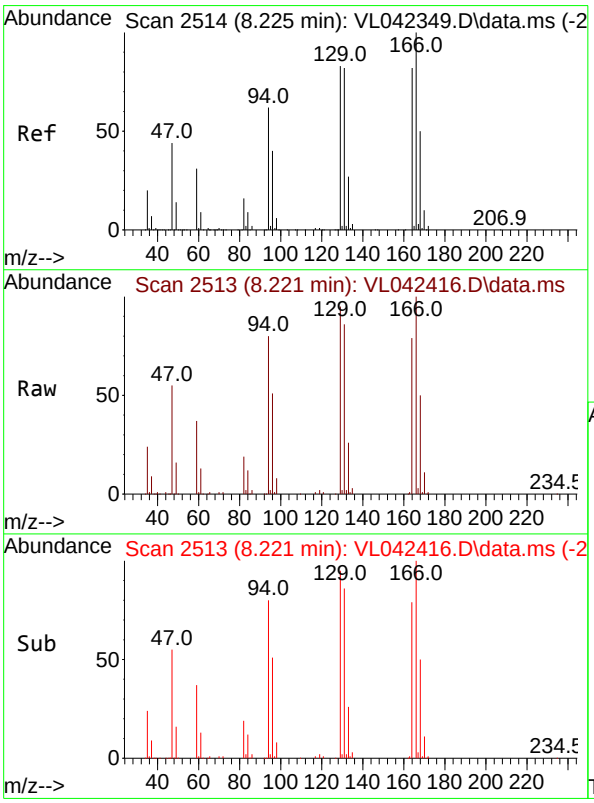

#51
2-Hexanone
Concen: 7.058 ppbv
RT: 7.431 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 43 Resp: 287045

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 48.8 | 40.2 | 60.4 |
| 98 | 0.1 | 0.1 | 0.1 |

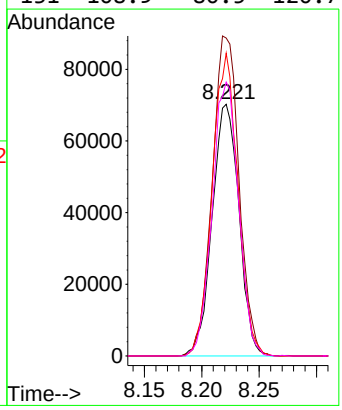


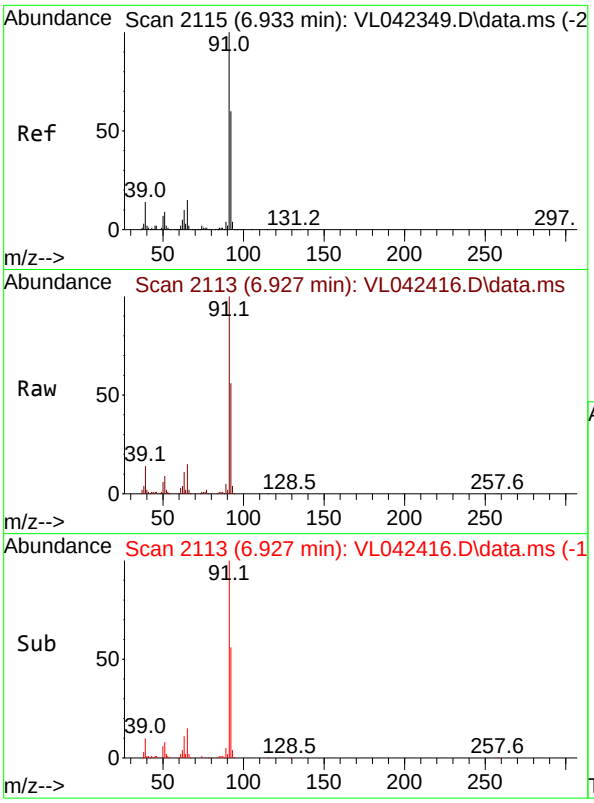




#52
Tetrachloroethene
Concen: 7.928 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion:164 Resp: 114038

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 126.3 | 98.2 | 147.2 |
| 129 | 120.3 | 81.8 | 122.8 |
| 131 | 108.9 | 80.5 | 120.7 |



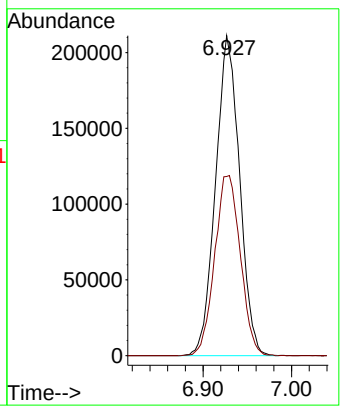


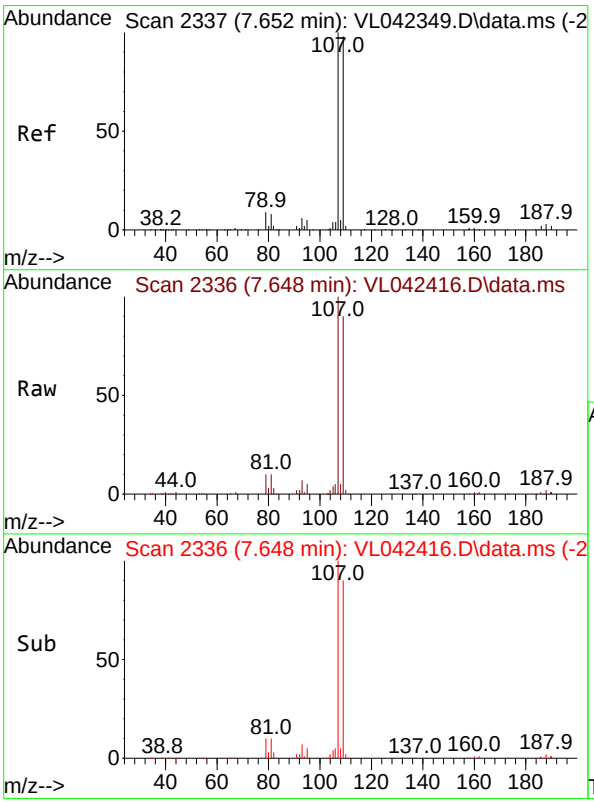

#53
Toluene
Concen: 8.916 ppbv
RT: 6.927 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 91 Resp: 398162

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 60.2 | 48.2 | 72.4 |

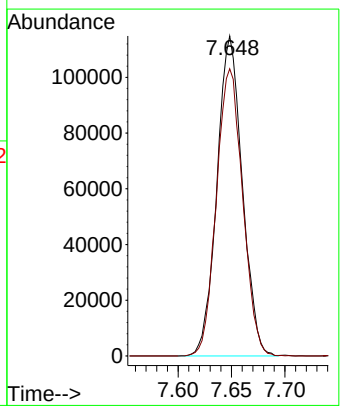


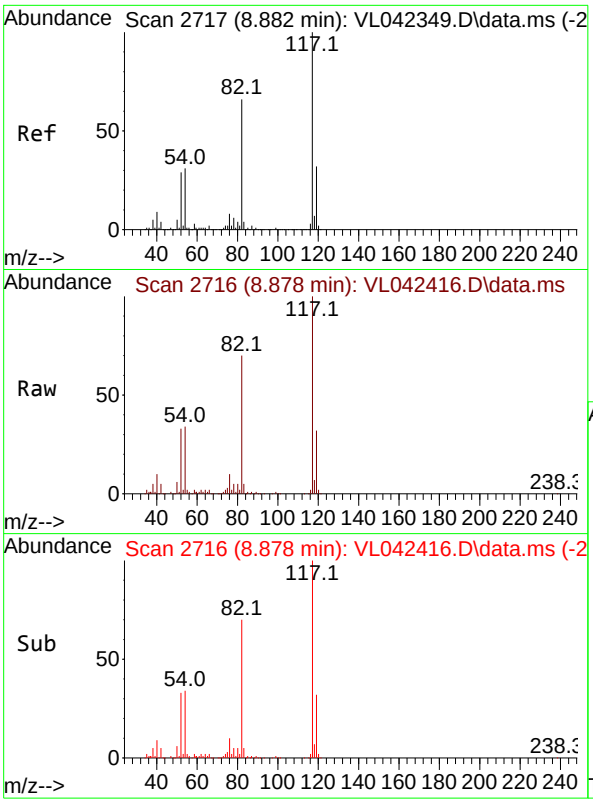




#54
1,2-Dibromoethane
Concen: 9.378 ppbv
RT: 7.648 min Scan# 2336
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion:107 Resp: 189639

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 89.8 | 78.2 | 117.4 |



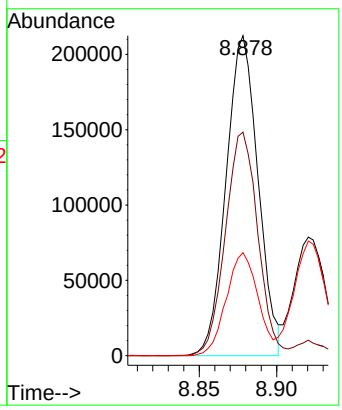


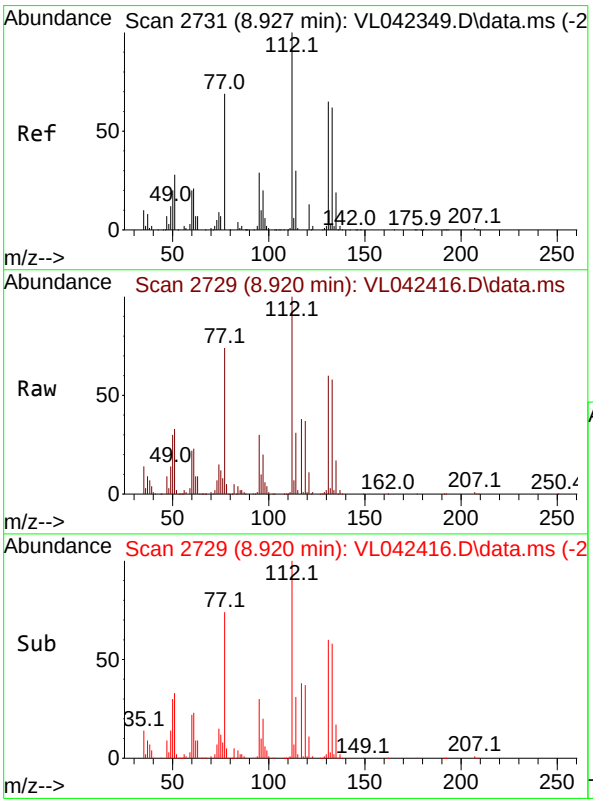

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:117 Resp: 305240

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 75.0 | 57.8 | 86.6 |
| 119 | 31.9 | 25.2 | 37.8 |

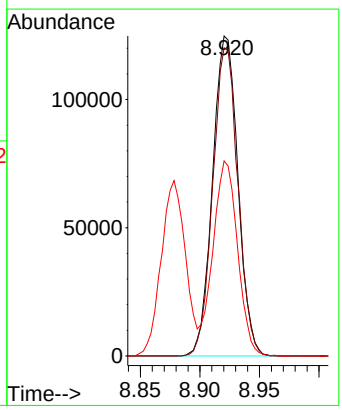


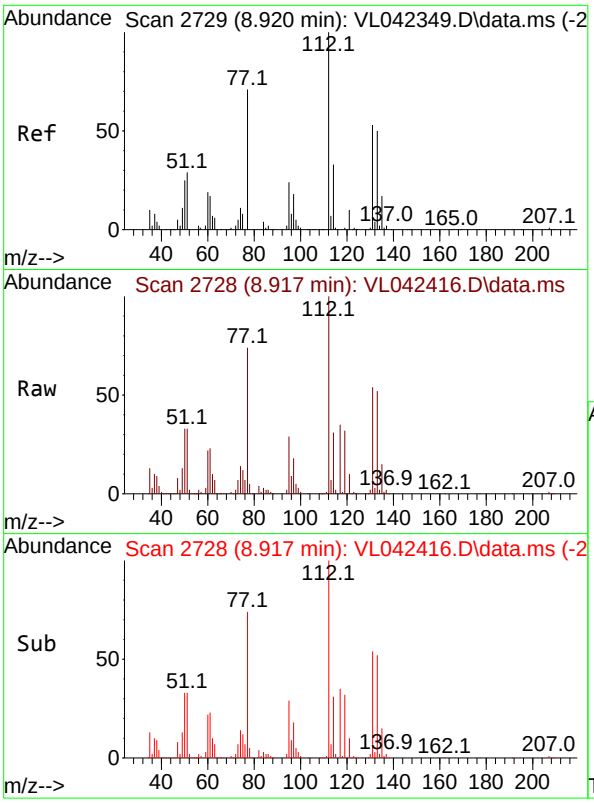




#56
1,1,1,2-Tetrachloroethane
Concen: 9.969 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. -0.007 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion:131 Resp: 184161

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.8 | 78.3 | 117.5 |
| 119 | 58.3 | 48.7 | 73.1 |



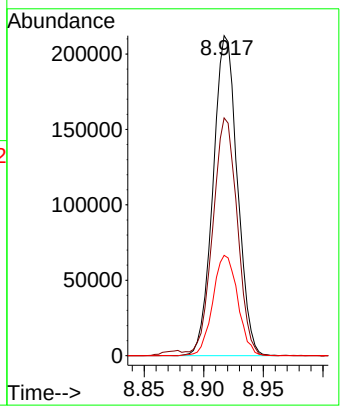


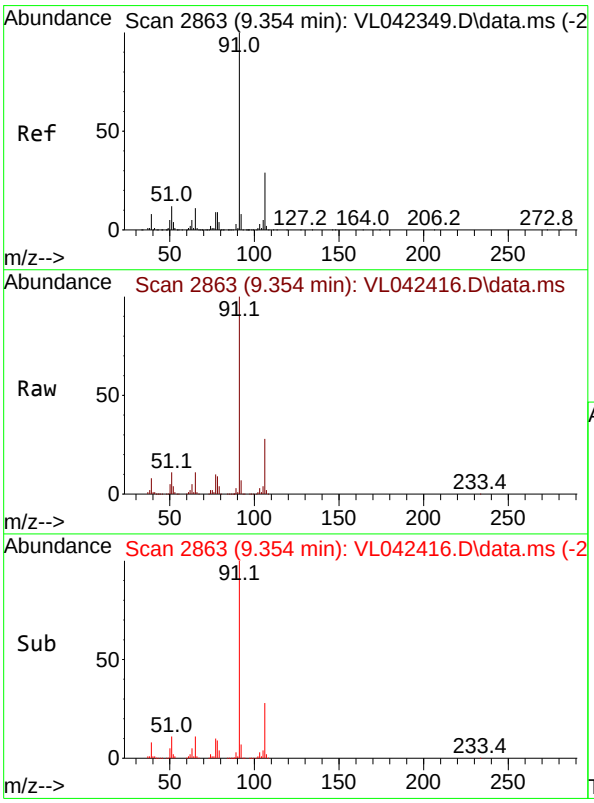

#57
Chlorobenzene
Concen: 9.471 ppbv
RT: 8.917 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:112 Resp: 300677

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 74.3 | 57.8 | 86.6 |
| 114 | 31.4 | 29.3 | 35.9 |

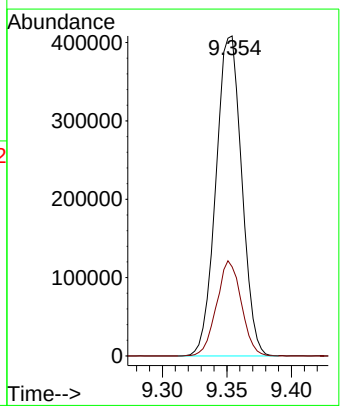


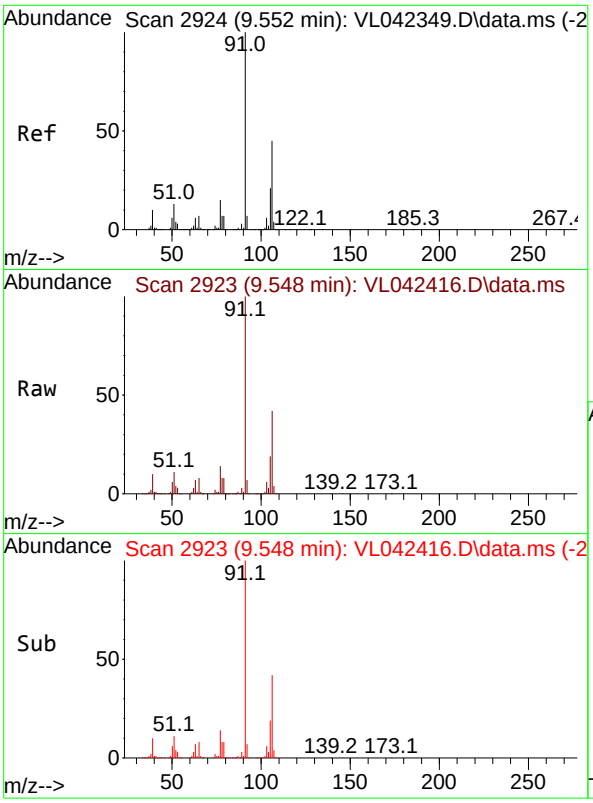




#58
Ethyl Benzene
Concen: 9.394 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 91 Resp: 568129

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 27.8 | 23.0 | 34.4 |



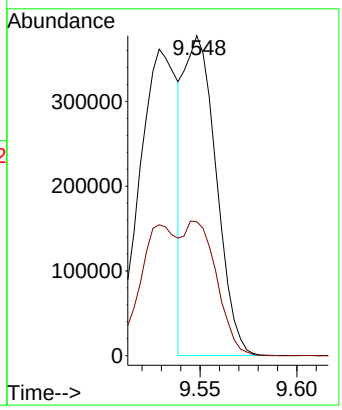


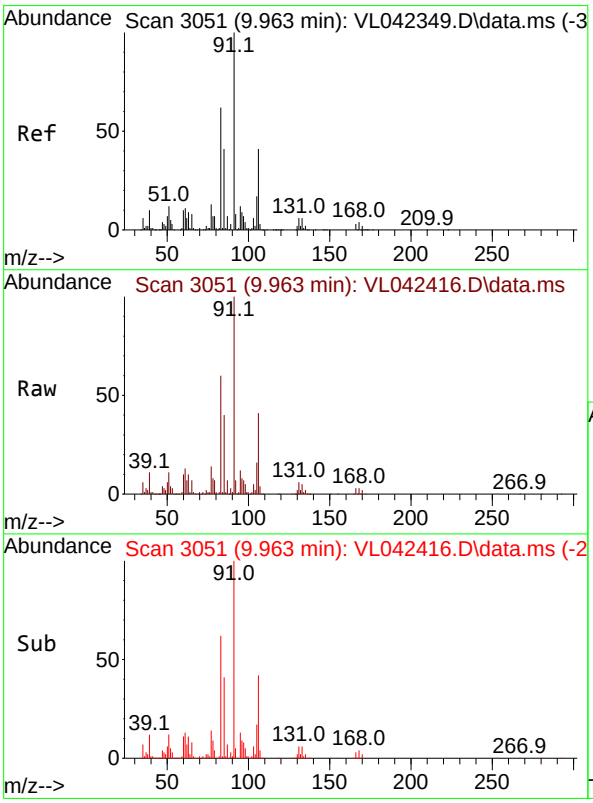

#59
m/p-Xylene
Concen: 8.998 ppbv
RT: 9.548 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 91 Resp: 438382

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 90.5 | 35.4 | 53.2# |

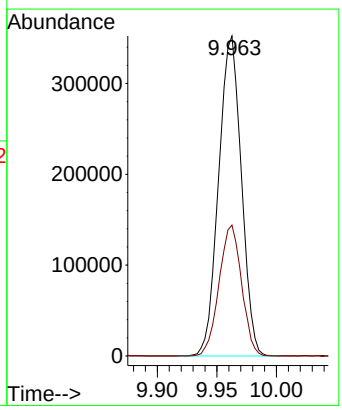


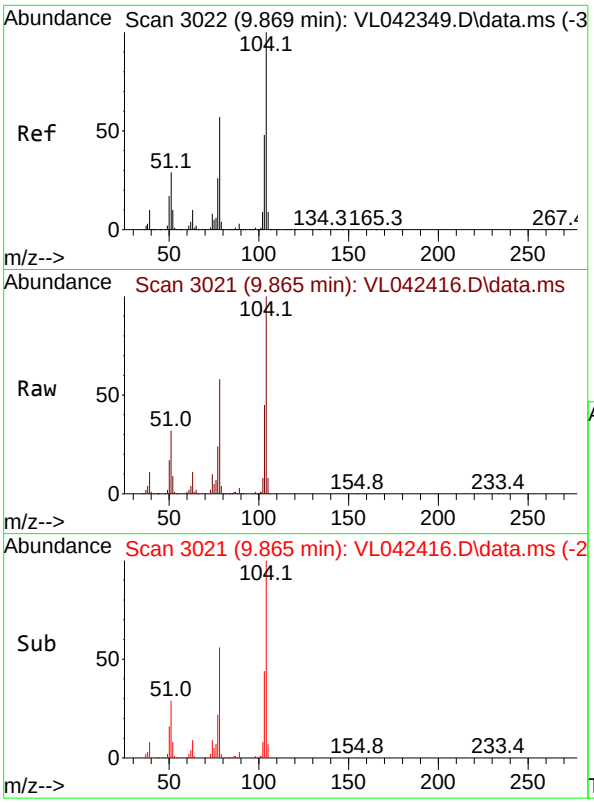




#60
o-Xylene
Concen: 9.507 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 91 Resp: 466411

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 40.6 | 21.1 | 63.4 |



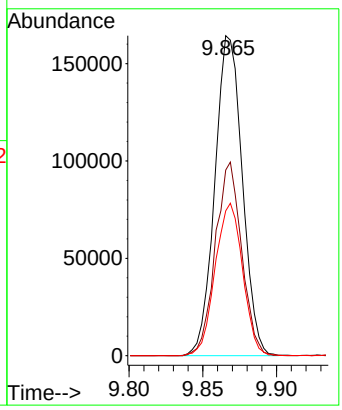


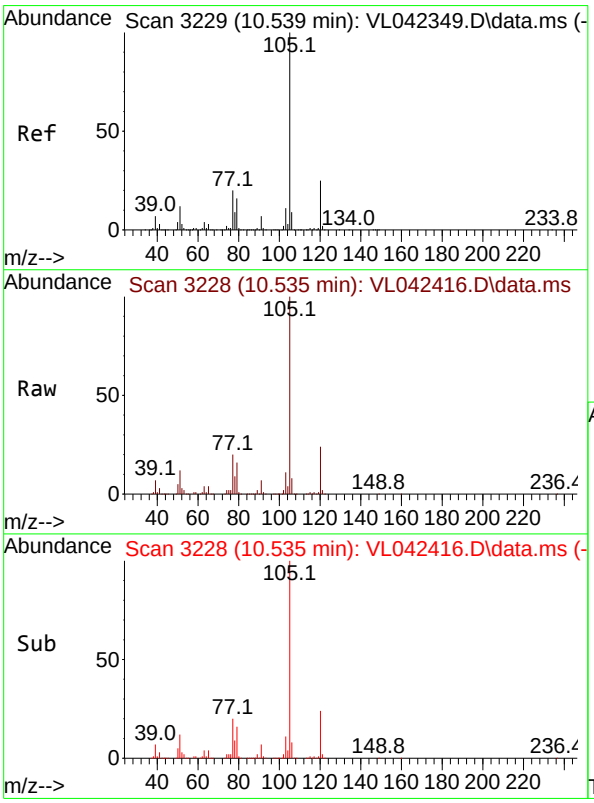

#61
Styrene
Concen: 9.101 ppbv
RT: 9.865 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:104 Resp: 213119

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 57.9 | 44.6 | 66.8 |
| 103 | 47.6 | 37.4 | 56.0 |

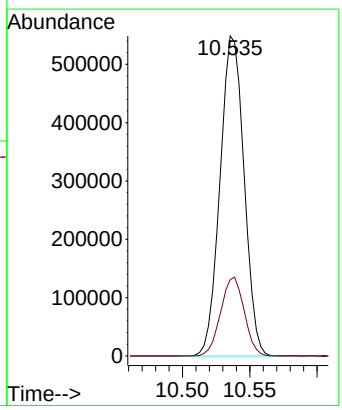


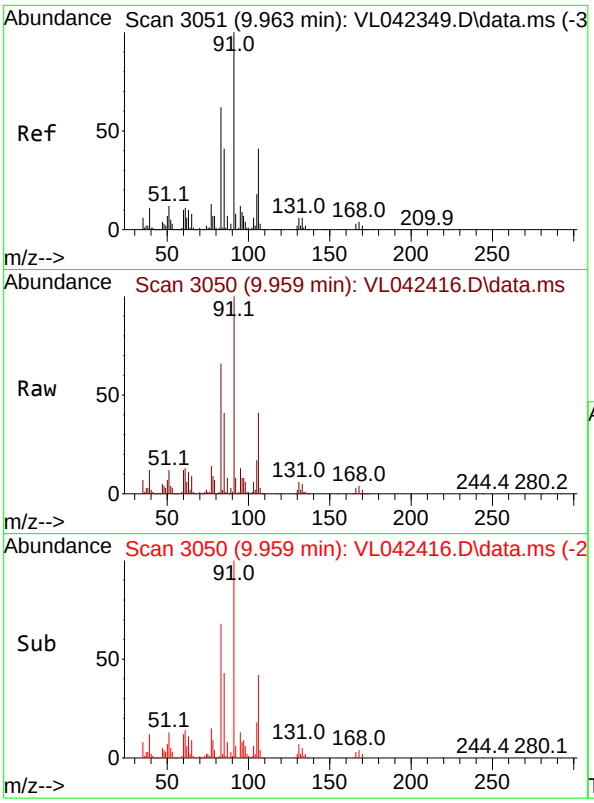




#62
Isopropylbenzene
Concen: 9.452 ppbv
RT: 10.535 min Scan# 3228
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion:105 Resp: 680837

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 24.1 | 19.8 | 29.8 |



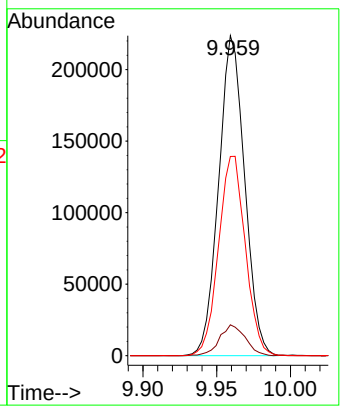


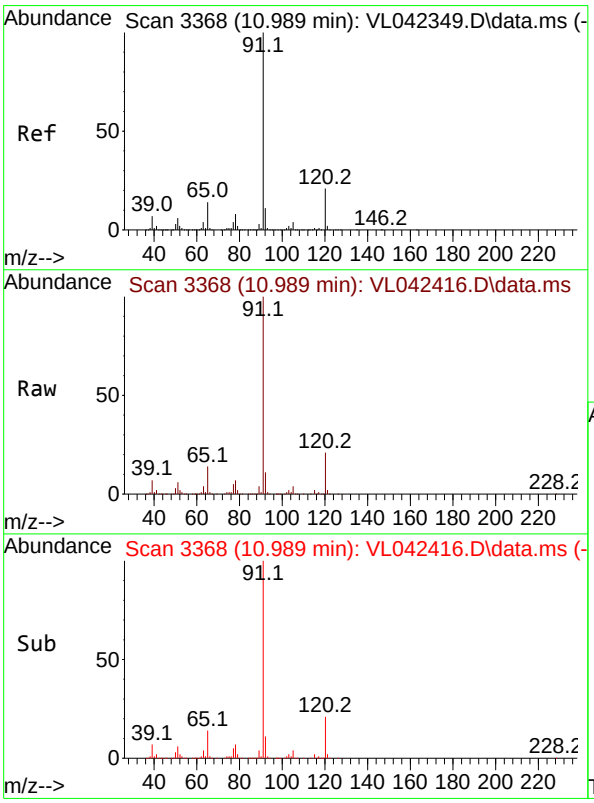

#63
1,1,2,2-Tetrachloroethane
Concen: 8.639 ppbv
RT: 9.959 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 83 Resp: 274653

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.6 | 4.5 | 13.7 |
| 85 | 64.2 | 32.4 | 97.0 |

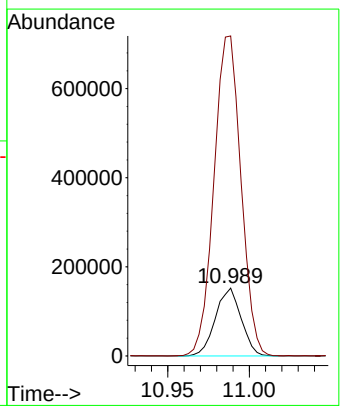


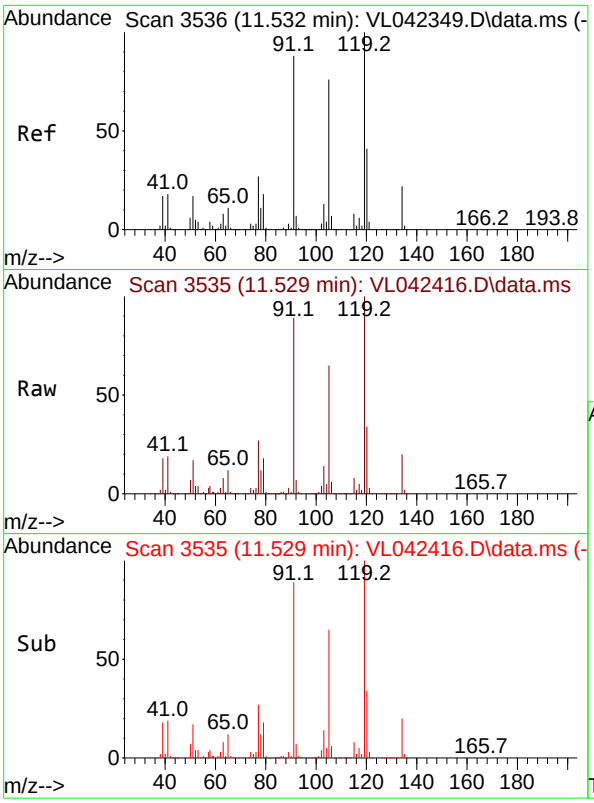




#64
n-propylbenzene
Concen: 9.223 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion:120 Resp: 166984

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 495.0 | 392.4 | 588.6 |



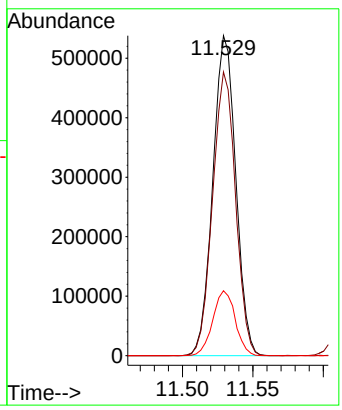


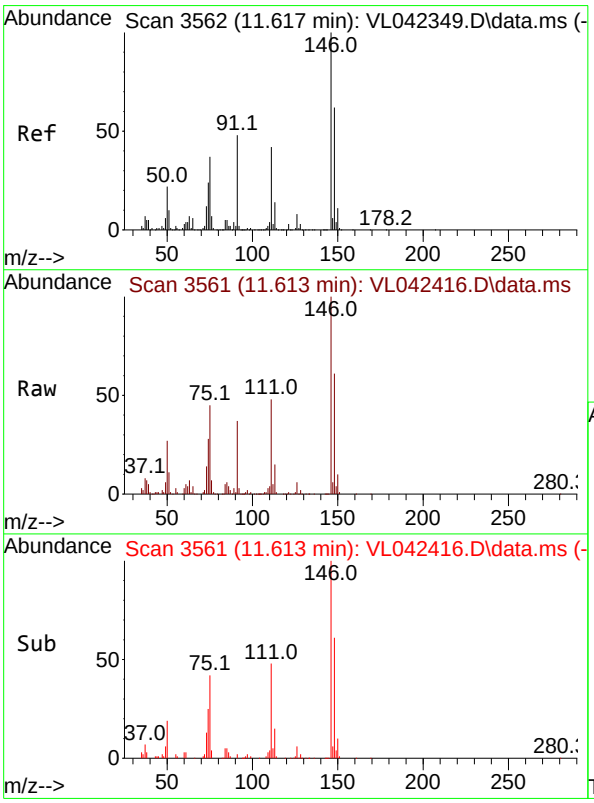

#65
tert-Butylbenzene
Concen: 9.219 ppbv
RT: 11.529 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:119 Resp: 610304

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 88.8 | 74.6 | 111.8 |
| 134 | 19.9 | 18.8 | 28.2 |

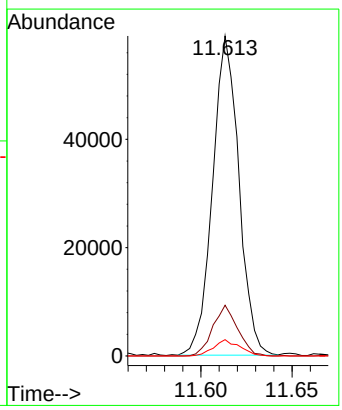


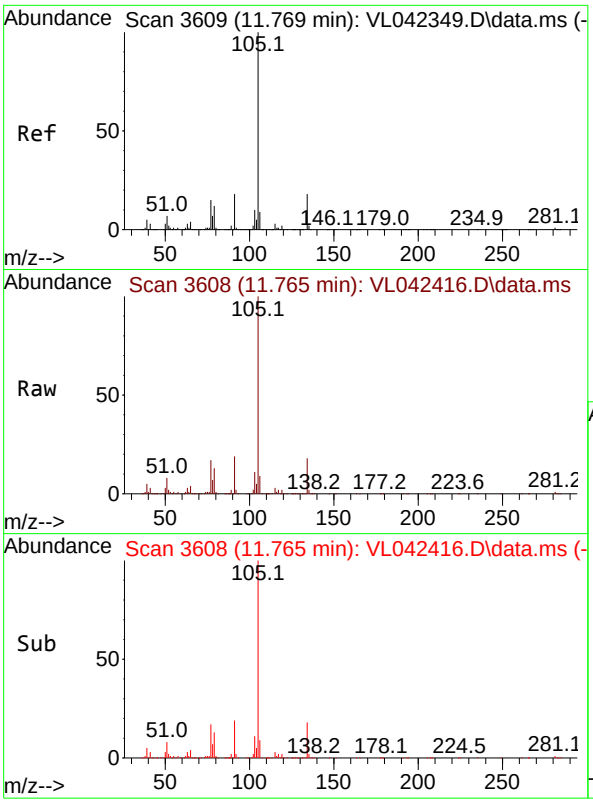




#66
Benzyl Chloride
Concen: 8.136 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 91 Resp: 59187

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 15.1 | 11.8 | 17.6 |
| 128 | 5.1 | 4.5 | 6.7 |



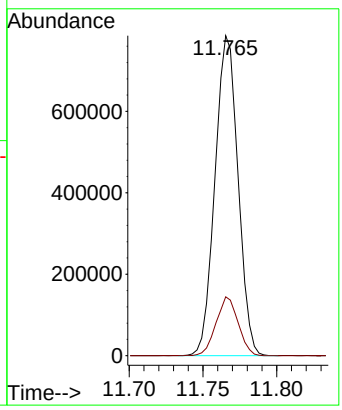


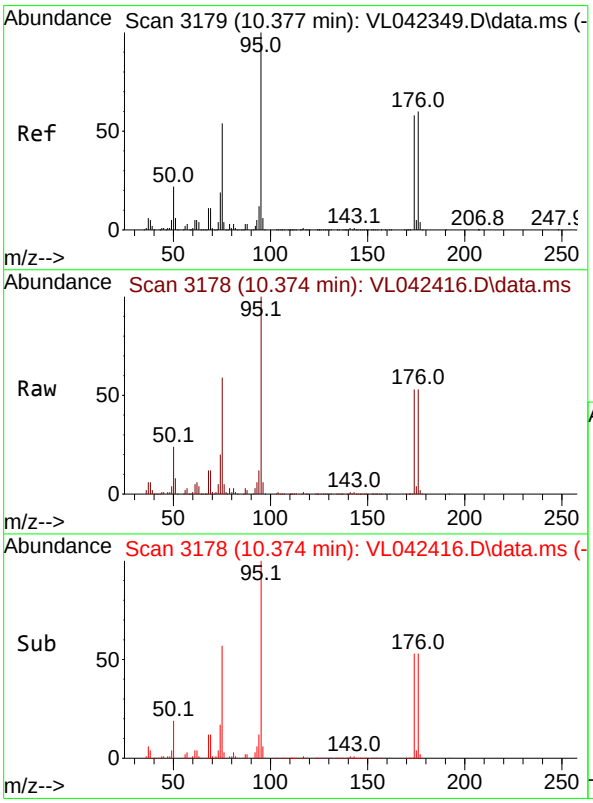

#67
sec-Butylbenzene
Concen: 9.276 ppbv
RT: 11.765 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:105 Resp: 854169

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 17.7 | 14.6 | 21.8 |

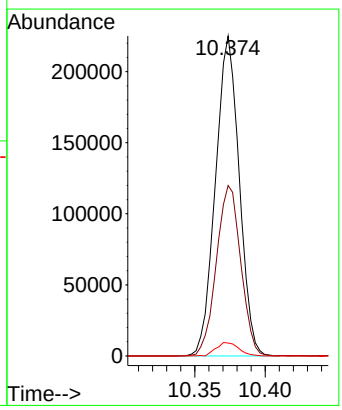


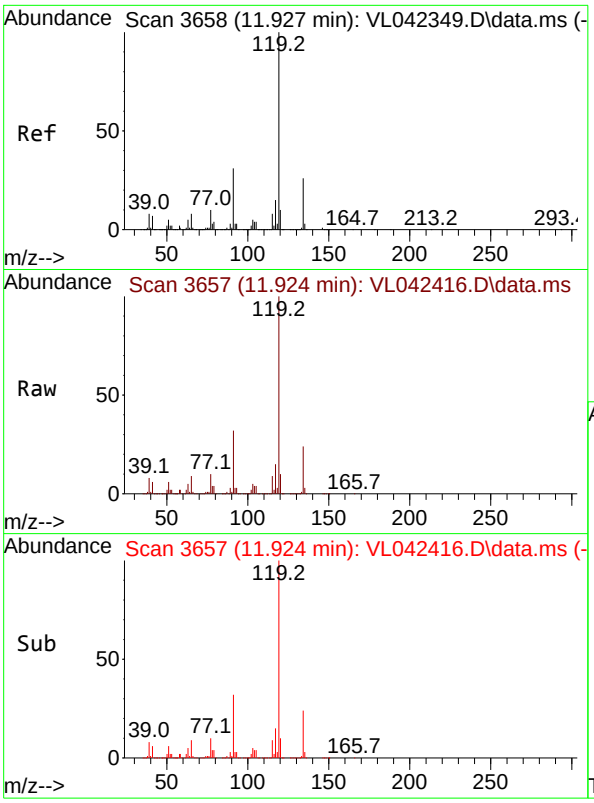




#68
1-Bromo-4-Fluorobenzene
Concen: 10.533 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 95 Resp: 264197

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 54.7 | 48.5 | 72.7 |
| 175 | 4.0 | 3.7 | 5.5 |



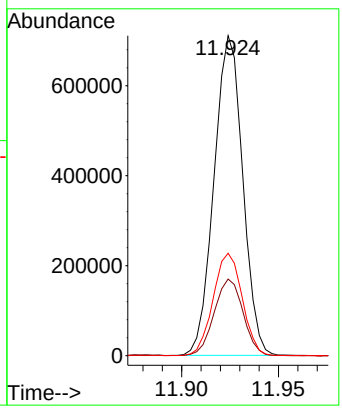


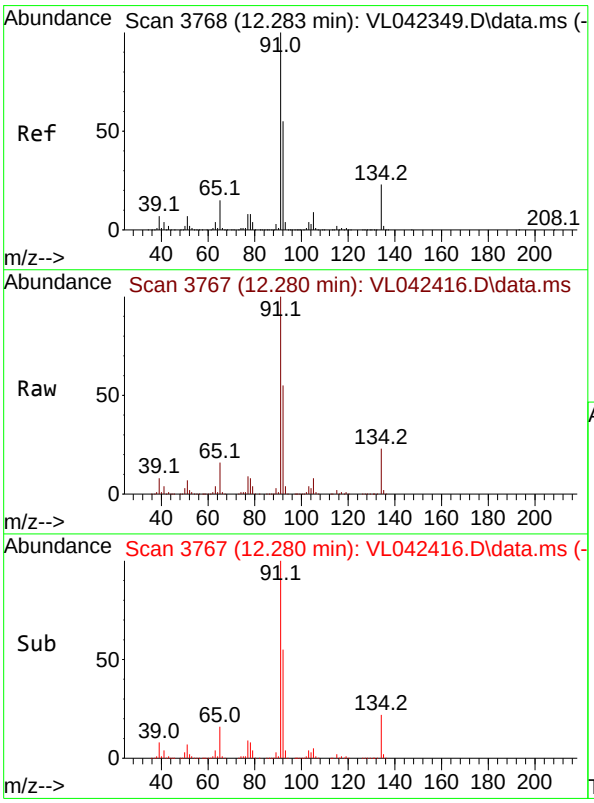

#69
p-Isopropyltoluene
Concen: 9.155 ppbv
RT: 11.924 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:119 Resp: 732365

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 24.2 | 20.0 | 30.0 |
| 91 | 32.7 | 24.4 | 36.6 |

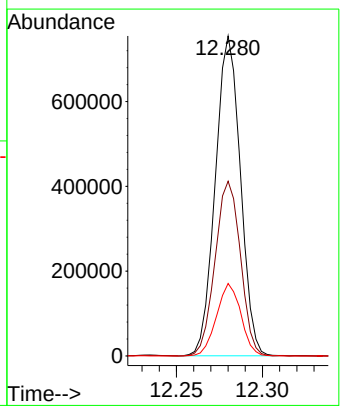


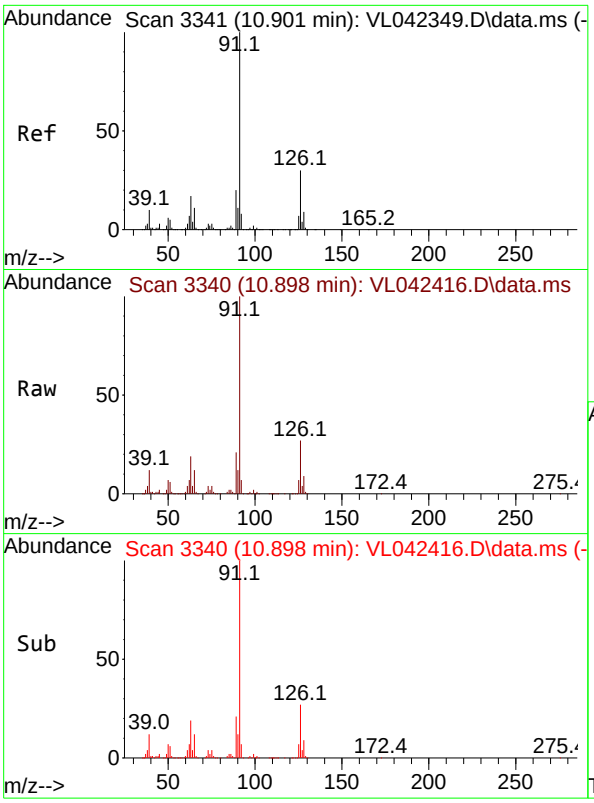




#70
n-Butylbenzene
Concen: 9.188 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion: 91 Resp: 765539

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 55.5 | 44.2 | 66.4 |
| 134 | 22.1 | 18.2 | 27.4 |



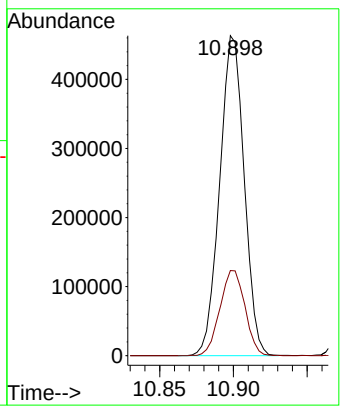


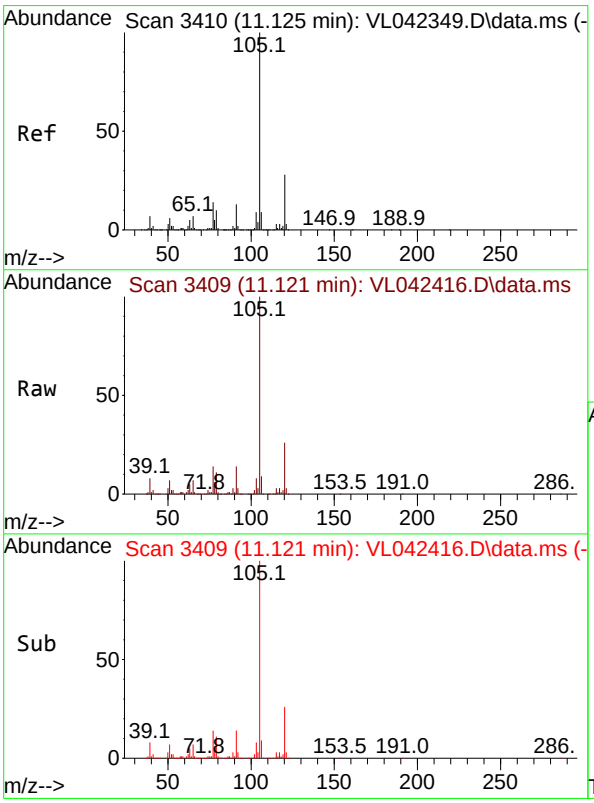

#71
2-Chlorotoluene
Concen: 9.467 ppbv
RT: 10.898 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 91 Resp: 534834

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 27.2 | 11.4 | 45.4 |

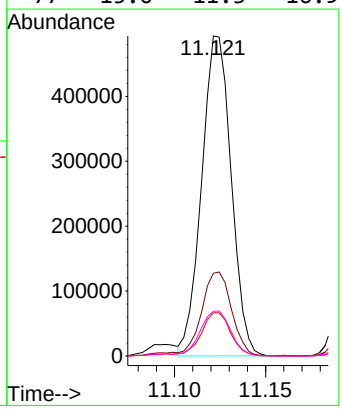


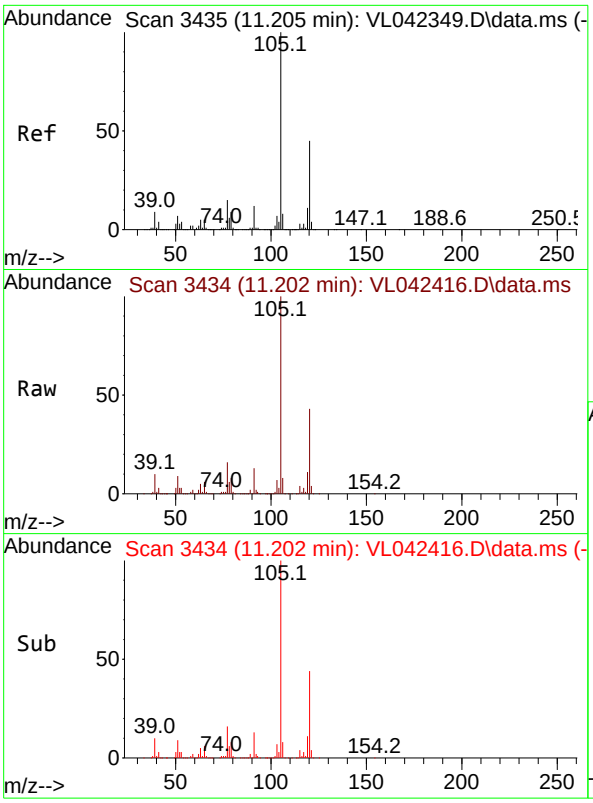




#72
4-Ethyltoluene
Concen: 9.280 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion:105 Resp: 556591

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 27.4 | 23.2 | 34.8 |
| 91 | 13.9 | 10.4 | 15.6 |
| 77 | 15.0 | 11.3 | 16.9 |



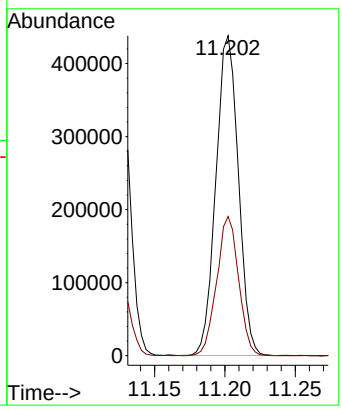


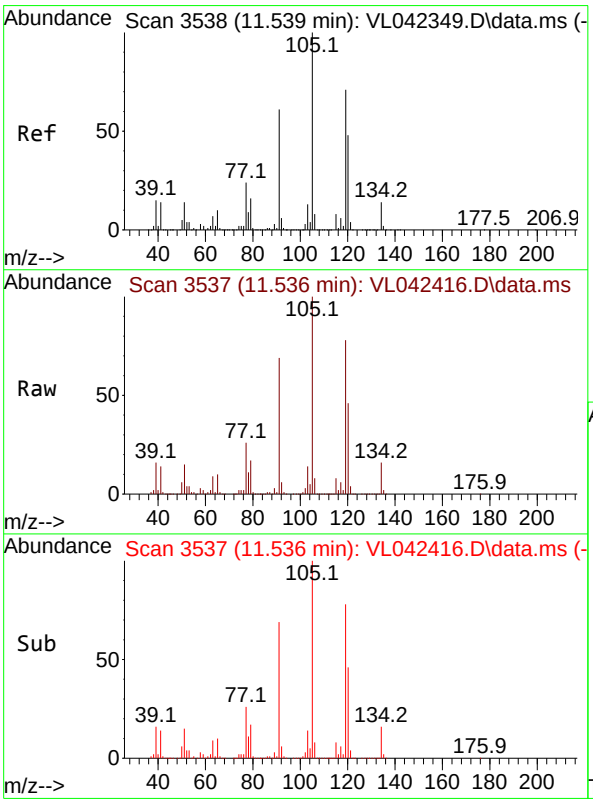

#73
1,3,5-Trimethylbenzene
Concen: 9.201 ppbv
RT: 11.202 min Scan# 34
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:105 Resp: 487223

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 43.5 | 35.6 | 53.4 |

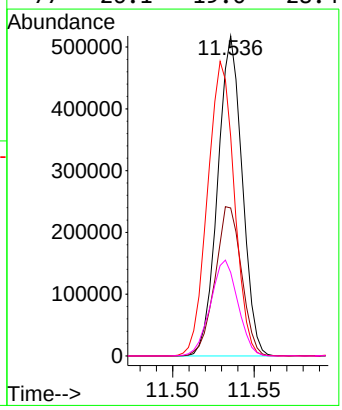


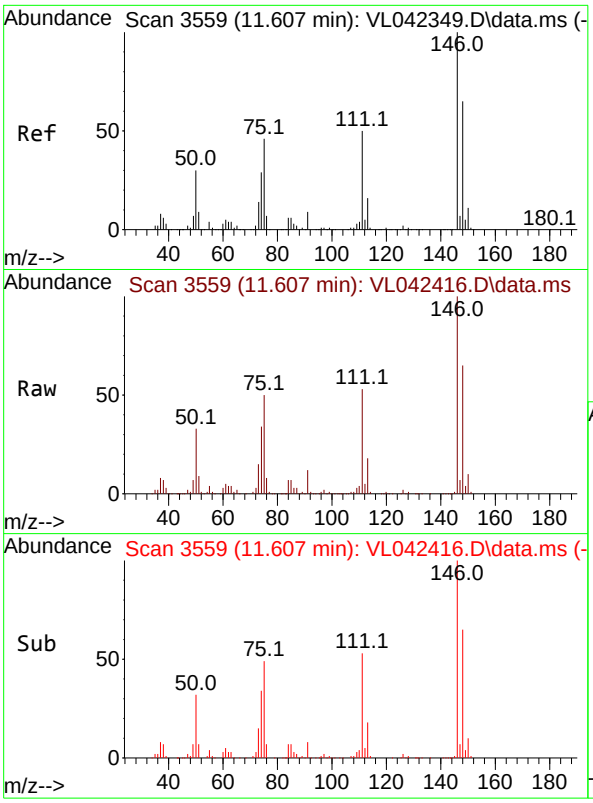




#74
1,2,4-Trimethylbenzene
Concen: 8.759 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion:105 Resp: 541720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.2 | 38.1 | 57.1 |
| 91 | 68.6 | 48.8 | 73.2 |
| 77 | 26.1 | 19.0 | 28.4 |



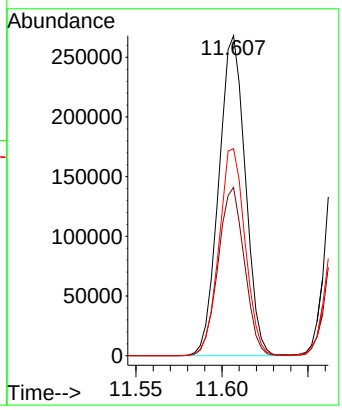


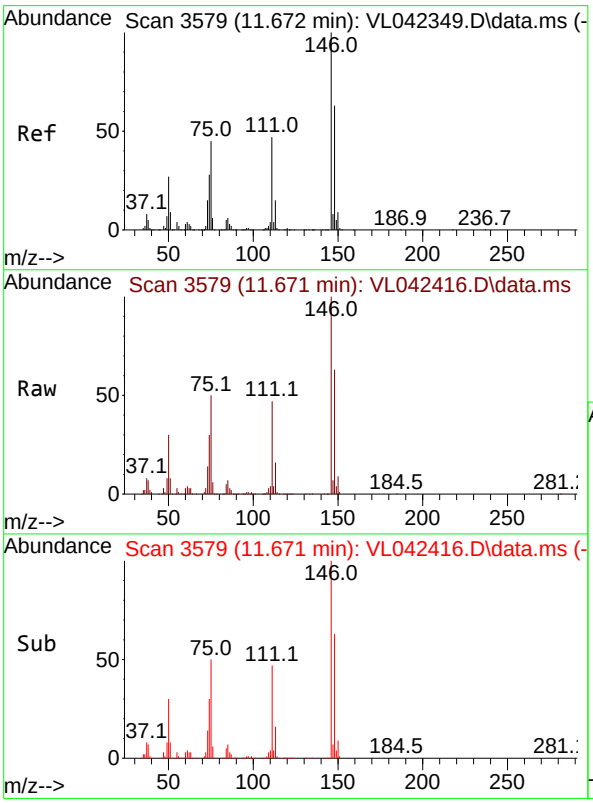

#75
1,3-Dichlorobenzene
Concen: 8.936 ppbv
RT: 11.607 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:146 Resp: 287285

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 52.1 | 24.3 | 72.8 |
| 148 | 63.9 | 31.6 | 94.8 |

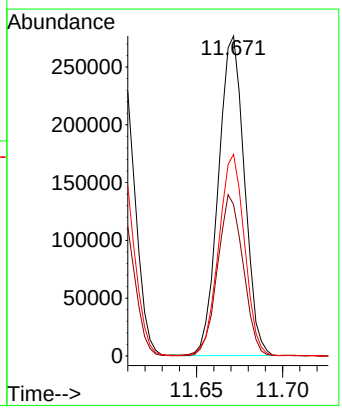


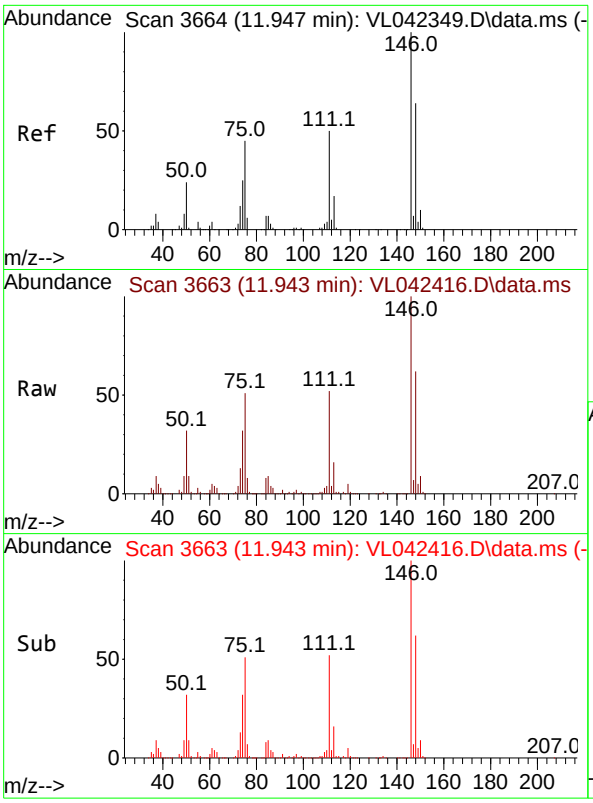




#76
1,4-Dichlorobenzene
Concen: 8.991 ppbv
RT: 11.671 min Scan# 3579
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion:146 Resp: 290512

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 49.8 | 24.2 | 72.6 |
| 148 | 63.2 | 32.1 | 96.5 |



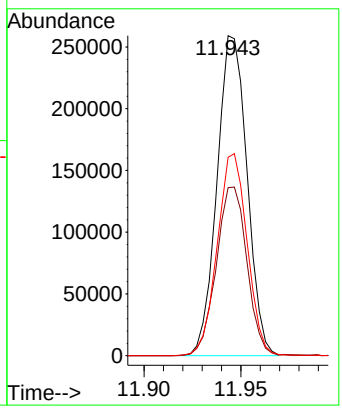


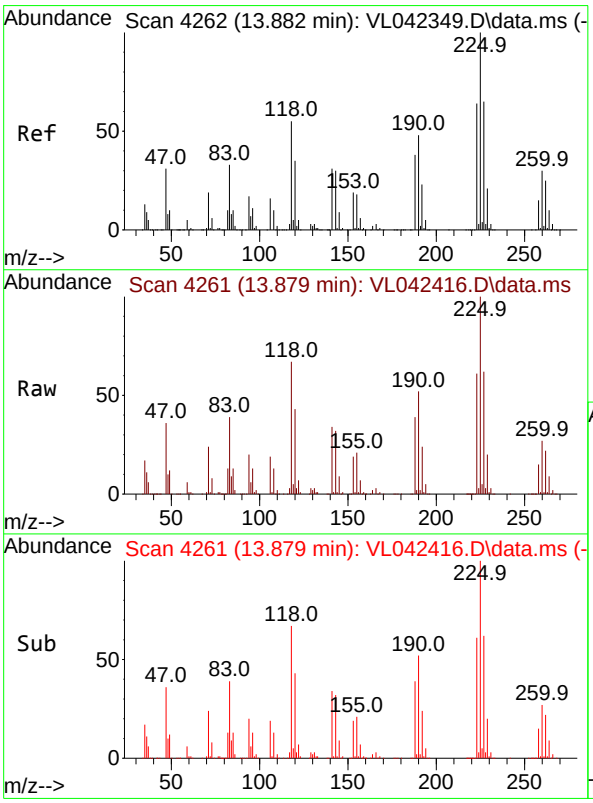

#77
1,2-Dichlorobenzene
Concen: 8.956 ppbv
RT: 11.943 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:146 Resp: 279962

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 53.8 | 25.3 | 75.9 |
| 148 | 62.9 | 31.5 | 94.5 |

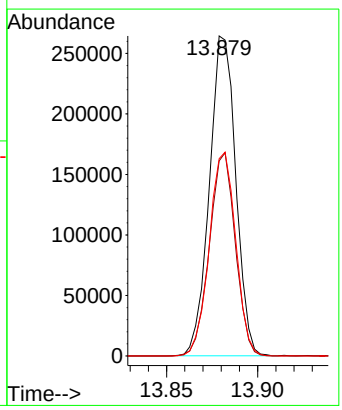


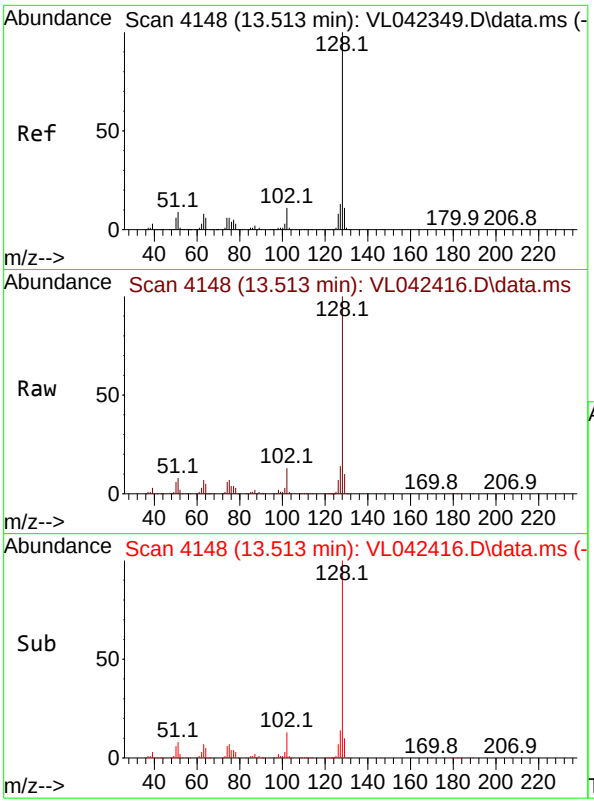




#78
Hexachloro-1,3-Butadiene
Concen: 8.419 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion:225 Resp: 265745

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.5 | 50.3 | 75.5 |
| 227 | 64.0 | 51.5 | 77.3 |



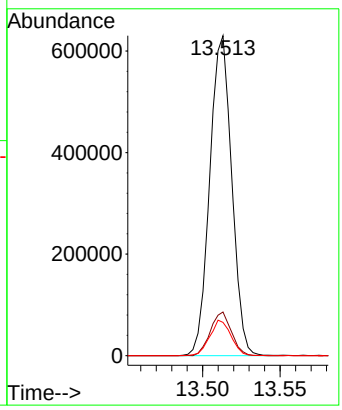


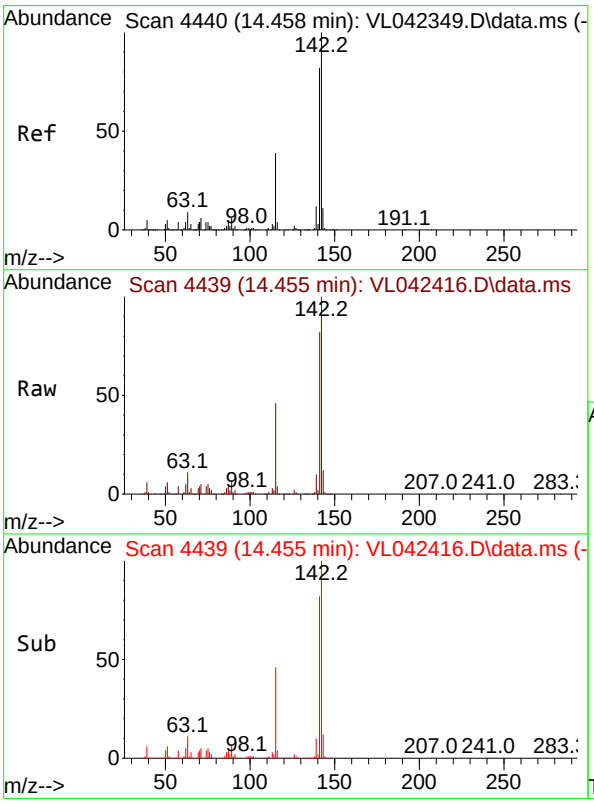

#79
Naphthalene
Concen: 8.418 ppbv
RT: 13.513 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:128 Resp: 622606

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.7 | 10.6 | 15.8 |
| 129 | 10.4 | 8.6 | 12.8 |

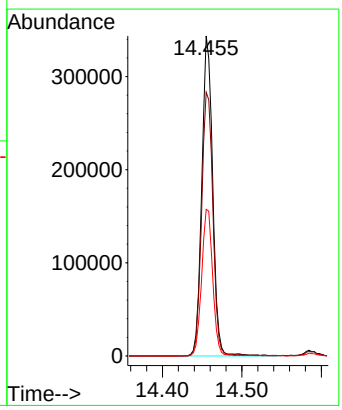


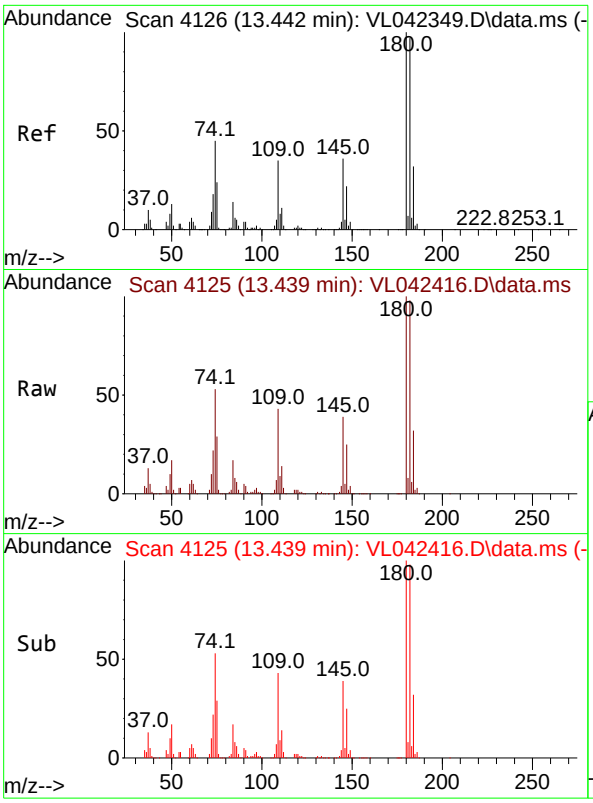




#80
Naphthalene,2-methyl-
Concen: 7.783 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

Tgt Ion:142 Resp: 328047

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 86.0 | 66.8 | 100.2 |
| 115 | 47.0 | 33.4 | 50.2 |



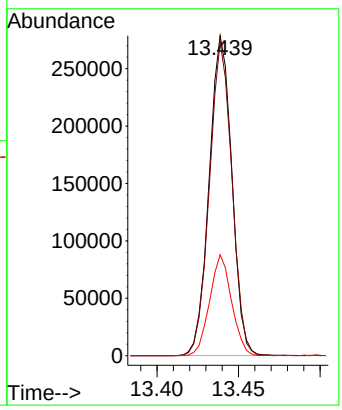



#81
1,2,4-Trichlorobenzene
Concen: 8.493 ppbv
RT: 13.439 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042416.D
Acq: 28 Apr 2025 08:44

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:180 Resp: 269711

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 97.0 | 76.8 | 115.2 |
| 184 | 30.6 | 24.6 | 36.8 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042418.D
Acq On : 28 Apr 2025 10:10
Operator : SY/MD
Sample : VL0428ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

Quant Time: Apr 29 01:32:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.780 | 49 | 122448 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.952 | 114 | 337202 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.875 | 117 | 299130 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.370 | 95 | 258626 | 10.521 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 105.200% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.495 | 85 | 216893 | 10.025 | ppbv | 99 |
| 3) Chlorodifluoromethane | 1.473 | 51 | 187830 | 9.117 | ppbv | 97 |
| 4) Chloromethane | 1.531 | 50 | 82976 | 9.692 | ppbv | 98 |
| 5) Vinyl Chloride | 1.576 | 62 | 81506 | 8.746 | ppbv | 96 |
| 6) Bromomethane | 1.664 | 94 | 37549 | 9.379 | ppbv | 86 |
| 7) Chloroethane | 1.703 | 64 | 31924 | 9.472 | ppbv | 98 |
| 8) Dichlorotetrafluoroethane | 1.550 | 85 | 184850 | 9.952 | ppbv | 95 |
| 9) Propene | 1.482 | 41 | 74980 | 7.992 | ppbv | 95 |
| 10) Heptane | 4.968 | 43 | 199403 | 7.565 | ppbv | 99 |
| 11) Trichlorofluoromethane | 1.874 | 101 | 205815 | 10.004 | ppbv | 95 |
| 12) 1,1,2-Trichlorotrifluo... | 2.136 | 101 | 161799 | 9.619 | ppbv | 97 |
| 13) Ethanol | 1.719 | 45 | 4439 | 2.977 | ppbv | 81 |
| 14) Bromoethene | 1.780 | 108 | 60748 | 9.581 | ppbv | 97 |
| 15) Acetone | 1.832 | 43 | 172651 | 8.613 | ppbv | 99 |
| 16) 1,3-Butadiene | 1.605 | 39 | 86553 | 9.028 | ppbv | 94 |
| 17) tert-Butyl alcohol | 2.036 | 59 | 221069 | 8.899 | ppbv | 100 |
| 18) 1,1-Dichloroethene | 2.029 | 96 | 72496 | 9.225 | ppbv | 98 |
| 19) Isopropyl Alcohol | 1.884 | 45 | 97525 | 8.758 | ppbv | 88 |
| 20) Methylene Chloride | 2.059 | 84 | 62175 | 7.920 | ppbv | 89 |
| 21) Allyl Chloride | 2.091 | 41 | 124058 | 8.964 | ppbv | 97 |
| 22) trans-1,2-Dichloroethene | 2.337 | 96 | 82175 | 9.184 | ppbv | 97 |
| 23) Vinyl Acetate | 2.457 | 43 | 67206 | 8.283 | ppbv # | 99 |
| 24) 1,1-Dichloroethane | 2.405 | 63 | 159644 | 9.393 | ppbv | 99 |
| 25) Ethyl Acetate | 2.832 | 43 | 419372 | 8.485 | ppbv | 99 |
| 26) Hexane | 2.819 | 57 | 162255 | 8.112 | ppbv | 99 |
| 27) Carbon Disulfide | 2.146 | 76 | 200806 | 9.377 | ppbv | 97 |
| 28) Methyl tert-Butyl Ether | 2.437 | 73 | 114239 | 8.718 | ppbv | 92 |
| 29) Chloroform | 2.842 | 83 | 275655 | 9.751 | ppbv | 100 |
| 30) Cyclohexane | 3.848 | 84 | 138766 | 8.583 | ppbv | 98 |
| 31) cis-1,2-Dichloroethene | 2.716 | 61 | 179960 | 9.464 | ppbv | 97 |
| 32) 1,1,1-Trichloroethane | 3.363 | 97 | 301358 | 9.469 | ppbv | 100 |
| 34) 2-Butanone | 2.554 | 43 | 230104 | 8.628 | ppbv | 99 |
| 35) Carbon Tetrachloride | 3.755 | 117 | 302298 | 9.906 | ppbv | 96 |
| 36) Benzene | 3.648 | 78 | 329117 | 9.049 | ppbv | 94 |
| 37) 1,2-Dichloroethane | 3.214 | 62 | 232279 | 10.641 | ppbv | 97 |
| 38) Trichloroethene | 4.541 | 130 | 131178 | 8.252 | ppbv | 93 |
| 39) 1,2-Dichloropropane | 4.308 | 63 | 119692 | 8.831 | ppbv | 93 |
| 40) 1,4-Dioxane | 4.577 | 88 | 59666 | 8.010 | ppbv # | 91 |
| 41) Tetrahydrofuran | 3.049 | 42 | 131046 | 8.428 | ppbv | 98 |
| 42) Bromodichloromethane | 4.480 | 83 | 310553 | 10.222 | ppbv # | 99 |
| 43) Methyl Methacrylate | 4.871 | 69 | 136249 | 8.312 | ppbv | 97 |
| 44) 2,2,4-Trimethylpentane | 4.628 | 57 | 546967 | 8.707 | ppbv | 97 |
| 45) t-1,3-Dichloropropene | 6.402 | 75 | 152930 | 9.133 | ppbv | 96 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042418.D
Acq On : 28 Apr 2025 10:10
Operator : SY/MD
Sample : VL0428ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

Quant Time: Apr 29 01:32:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.587 | 75 | 185557 | 9.055 | ppbv | | 91 |
| 47) 1,1,2-Trichloroethane | 6.574 | 97 | 130821 | 9.474 | ppbv | | 95 |
| 48) Dibromochloromethane | 7.376 | 129 | 237927 | 9.753 | ppbv | | 100 |
| 49) Bromoform | 9.477 | 173 | 196872 | 9.229 | ppbv | | 99 |
| 50) 4-Methyl-2-Pentanone | 5.742 | 43 | 342379 | 7.726 | ppbv | | 98 |
| 51) 2-Hexanone | 7.428 | 43 | 280580 | 7.060 | ppbv | # | 95 |
| 52) Tetrachloroethene | 8.218 | 164 | 113273 | 8.058 | ppbv | | 95 |
| 53) Toluene | 6.923 | 91 | 388626 | 8.904 | ppbv | | 99 |
| 54) 1,2-Dibromoethane | 7.642 | 107 | 181632 | 9.191 | ppbv | | 92 |
| 56) 1,1,1,2-Tetrachloroethane | 8.917 | 131 | 180122 | 9.949 | ppbv | | 96 |
| 57) Chlorobenzene | 8.917 | 112 | 294922 | 9.480 | ppbv | | 97 |
| 58) Ethyl Benzene | 9.347 | 91 | 552423 | 9.321 | ppbv | | 100 |
| 59) m/p-Xylene | 9.545 | 91 | 434048 | 9.091 | ppbv | # | 31 |
| 60) o-Xylene | 9.959 | 91 | 457491 | 9.515 | ppbv | | 98 |
| 61) Styrene | 9.865 | 104 | 208517 | 9.086 | ppbv | | 97 |
| 62) Isopropylbenzene | 10.535 | 105 | 673842 | 9.546 | ppbv | | 97 |
| 63) 1,1,2,2-Tetrachloroethane | 9.956 | 83 | 273641 | 8.783 | ppbv | | 100 |
| 64) n-propylbenzene | 10.985 | 120 | 164482 | 9.271 | ppbv | | 98 |
| 65) tert-Butylbenzene | 11.526 | 119 | 612519 | 9.441 | ppbv | | 95 |
| 66) Benzyl Chloride | 11.610 | 91 | 54781 | 7.684 | ppbv | | 98 |
| 67) sec-Butylbenzene | 11.765 | 105 | 846457 | 9.380 | ppbv | | 99 |
| 69) p-Isopropyltoluene | 11.921 | 119 | 722909 | 9.221 | ppbv | | 97 |
| 70) n-Butylbenzene | 12.277 | 91 | 771835 | 9.452 | ppbv | | 98 |
| 71) 2-Chlorotoluene | 10.898 | 91 | 532755 | 9.623 | ppbv | | 96 |
| 72) 4-Ethyltoluene | 11.121 | 105 | 554770 | 9.438 | ppbv | | 97 |
| 73) 1,3,5-Trimethylbenzene | 11.199 | 105 | 481697 | 9.283 | ppbv | | 94 |
| 74) 1,2,4-Trimethylbenzene | 11.532 | 105 | 537510 | 8.869 | ppbv | # | 89 |
| 75) 1,3-Dichlorobenzene | 11.603 | 146 | 284652 | 9.035 | ppbv | | 98 |
| 76) 1,4-Dichlorobenzene | 11.668 | 146 | 284740 | 8.992 | ppbv | | 98 |
| 77) 1,2-Dichlorobenzene | 11.943 | 146 | 278619 | 9.095 | ppbv | | 98 |
| 78) Hexachloro-1,3-Butadiene | 13.876 | 225 | 271569 | 8.779 | ppbv | | 99 |
| 79) Naphthalene | 13.510 | 128 | 614768 | 8.482 | ppbv | | 100 |
| 80) Naphthalene,2-methyl- | 14.455 | 142 | 316027 | 7.651 | ppbv | | 96 |
| 81) 1,2,4-Trichlorobenzene | 13.435 | 180 | 271657 | 8.729 | ppbv | | 98 |

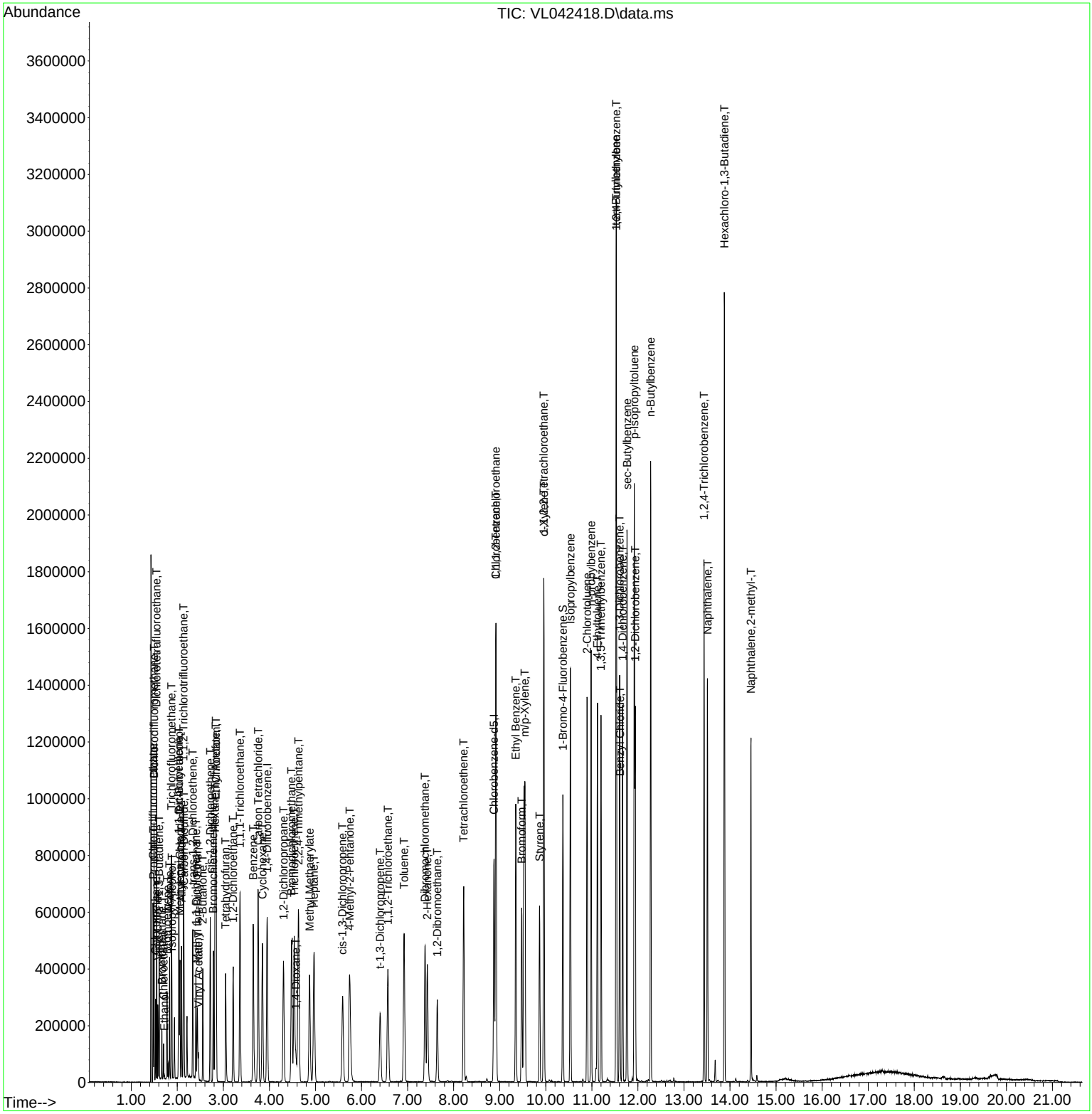
(#) = qualifier out of range (m) = manual integration (+) = signals summed

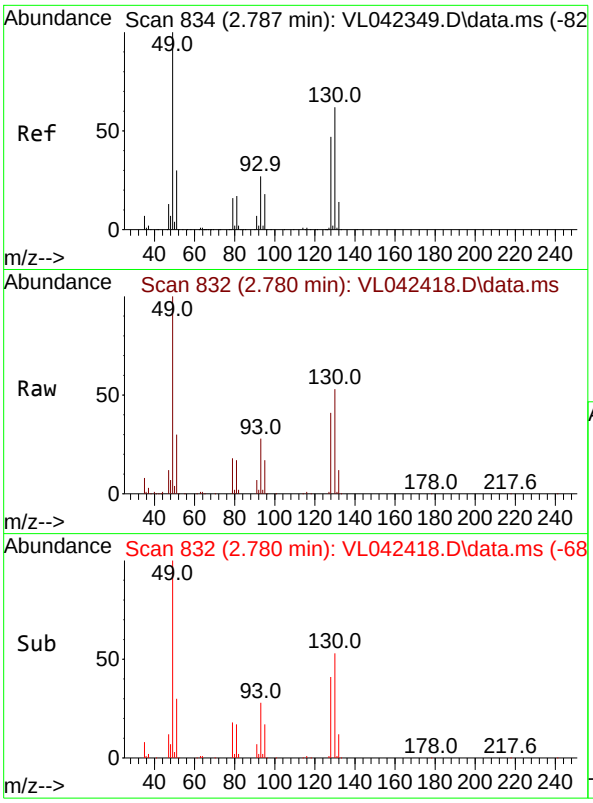
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042418.D
Acq On : 28 Apr 2025 10:10
Operator : SY/MD
Sample : VL0428ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

Quant Time: Apr 29 01:32:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration



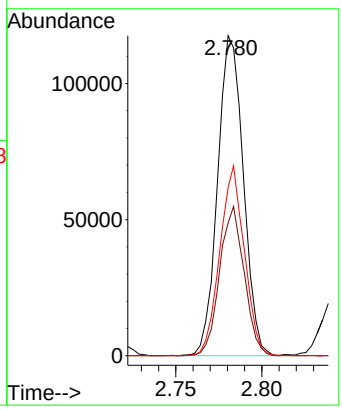


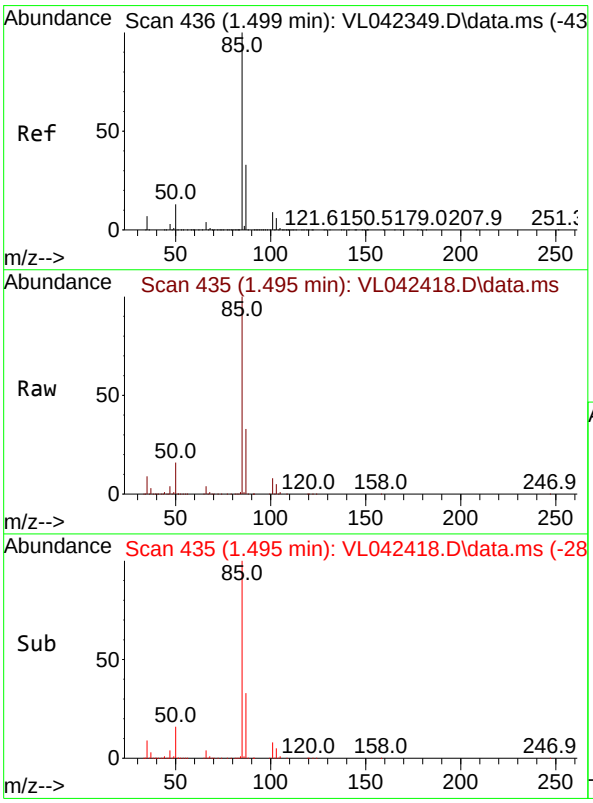

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.780 min Scan# 8
Delta R.T. -0.007 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

Tgt Ion: 49 Resp: 122448

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 44.3 | 22.8 | 68.4 |
| 130 | 56.4 | 29.3 | 88.0 |

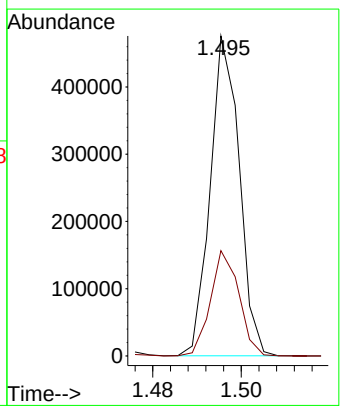


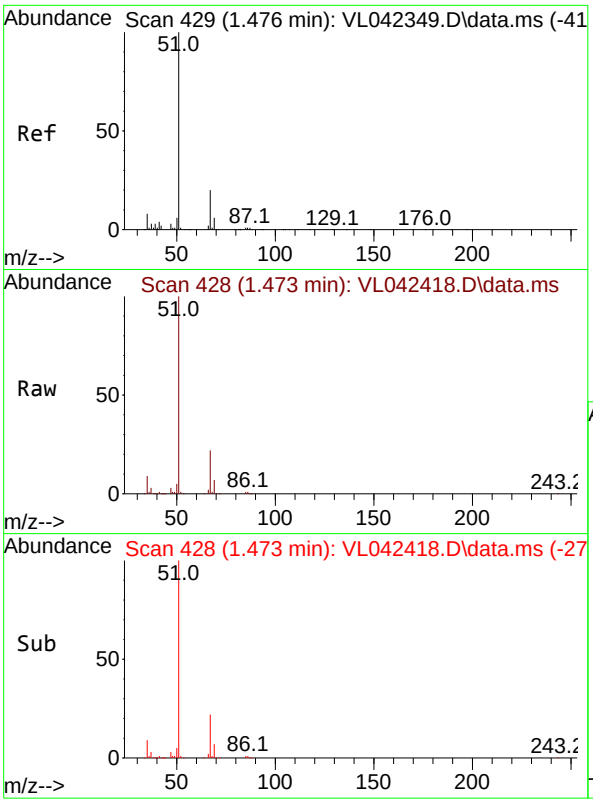




#2
Dichlorodifluoromethane
Concen: 10.025 ppbv
RT: 1.495 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 85 Resp: 216893

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.9 | 26.6 | 39.8 |



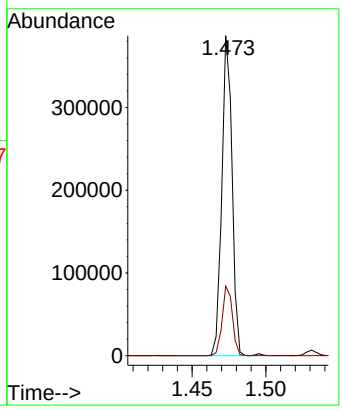


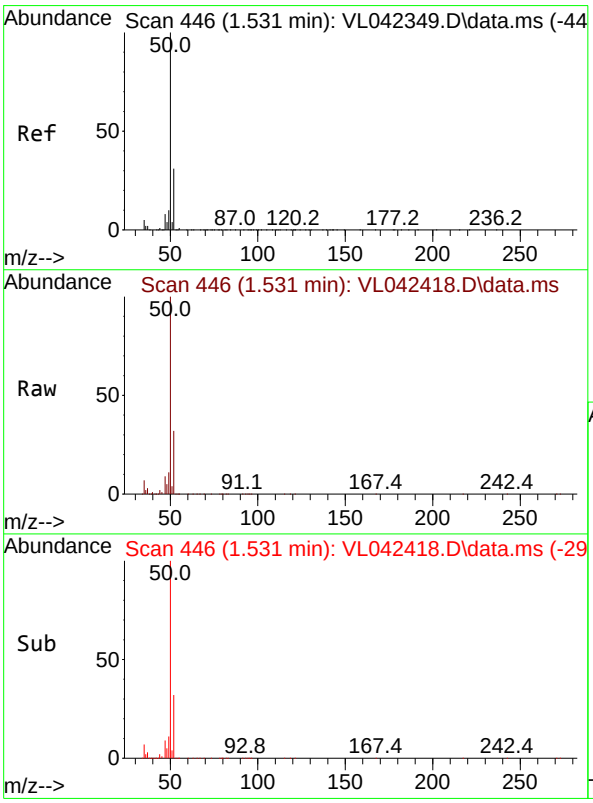

#3
Chlorodifluoromethane
Concen: 9.117 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

Tgt Ion: 51 Resp: 187830

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 21.8 | 16.2 | 24.4 |

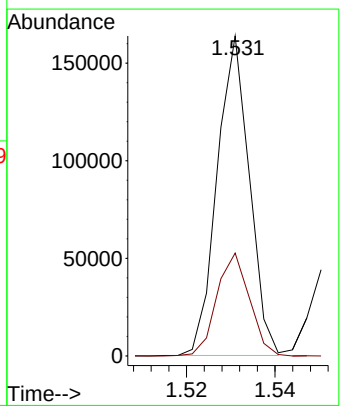


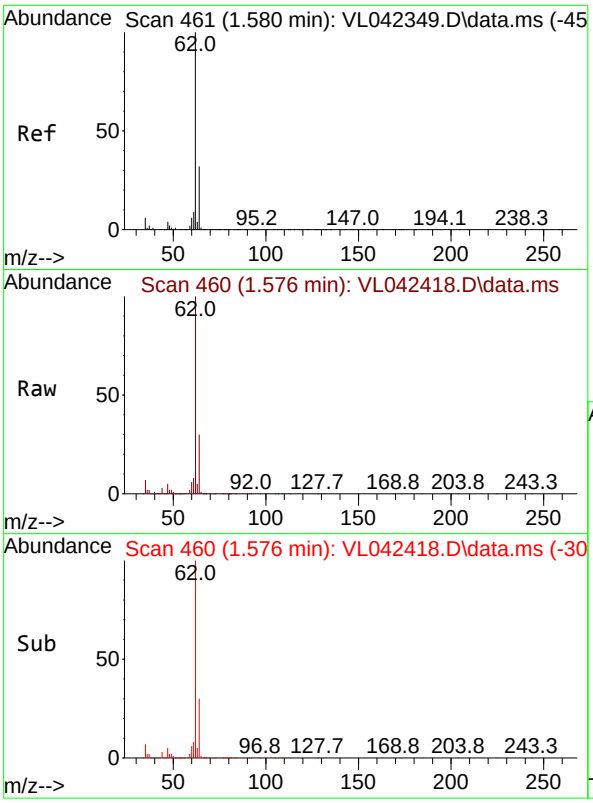




#4
Chloromethane
Concen: 9.692 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 50 Resp: 82976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.0 | 24.7 | 37.1 |



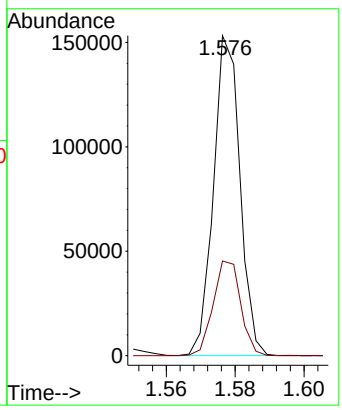


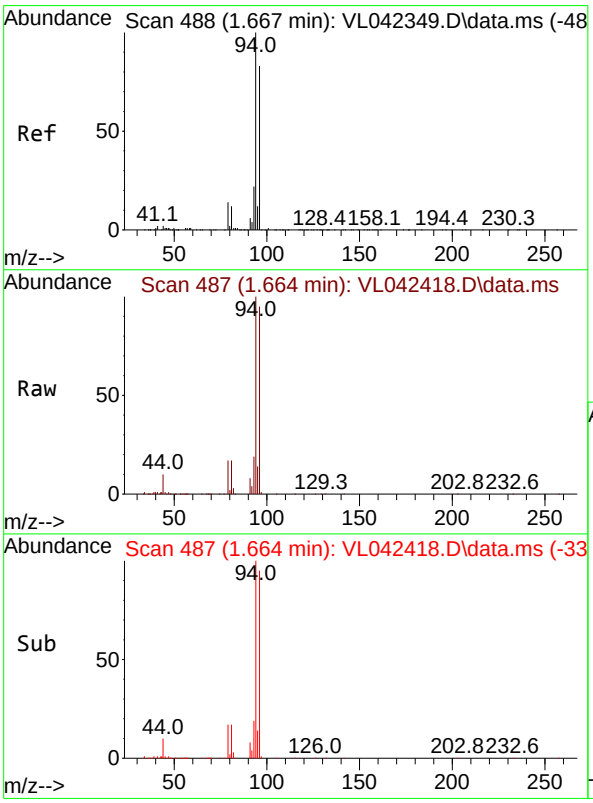

#5
Vinyl Chloride
Concen: 8.746 ppbv
RT: 1.576 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

Tgt Ion: 62 Resp: 81506

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 29.6 | 25.4 | 38.0 |

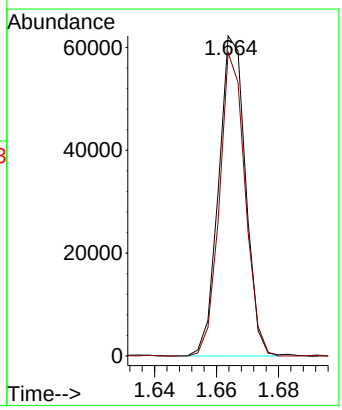


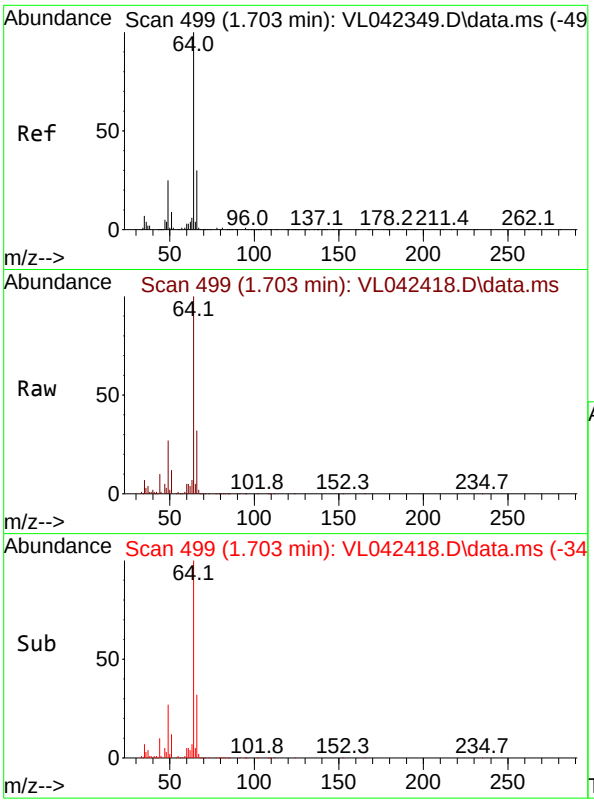




#6
Bromomethane
Concen: 9.379 ppbv
RT: 1.664 min Scan# 487
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 94 Resp: 37549

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 94.8 | 66.2 | 99.2 |



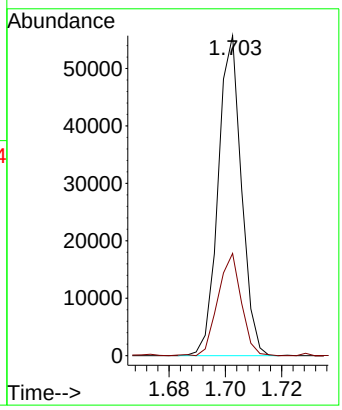


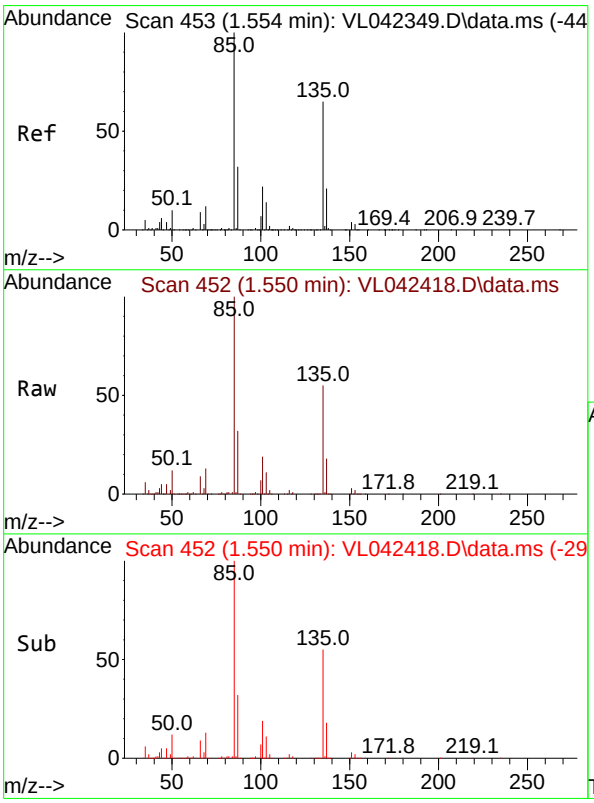

#7
Chloroethane
Concen: 9.472 ppbv
RT: 1.703 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

Tgt Ion: 64 Resp: 31924

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 31.9 | 24.6 | 37.0 |

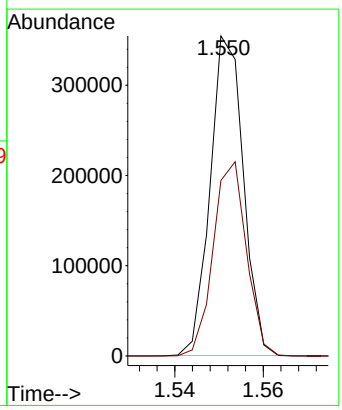


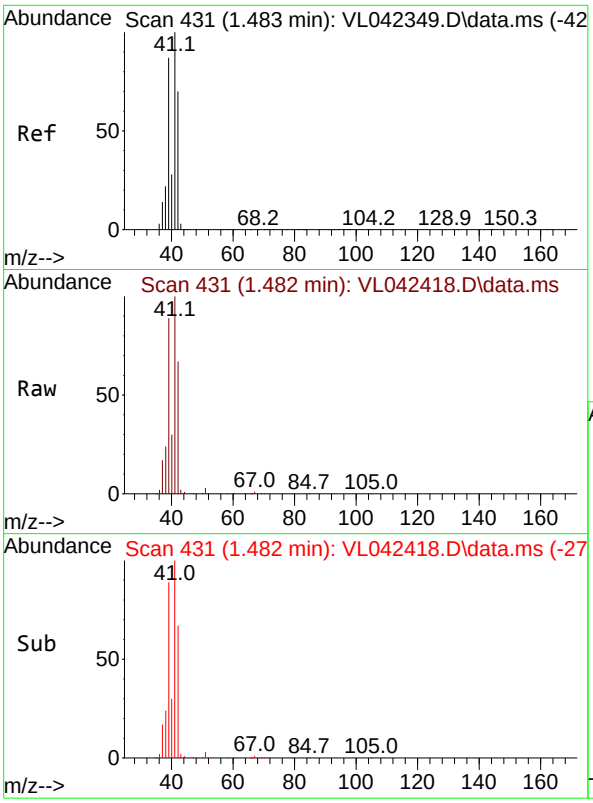




#8
Dichlorotetrafluoroethane
Concen: 9.952 ppbv
RT: 1.550 min Scan# 452
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 85 Resp: 184850

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 60.9 | 52.2 | 78.2 |



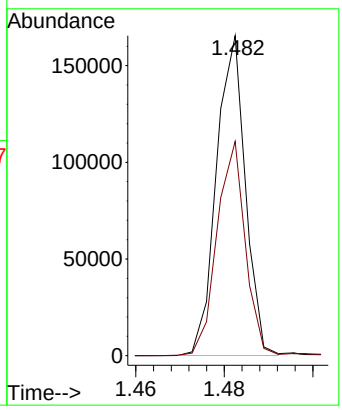


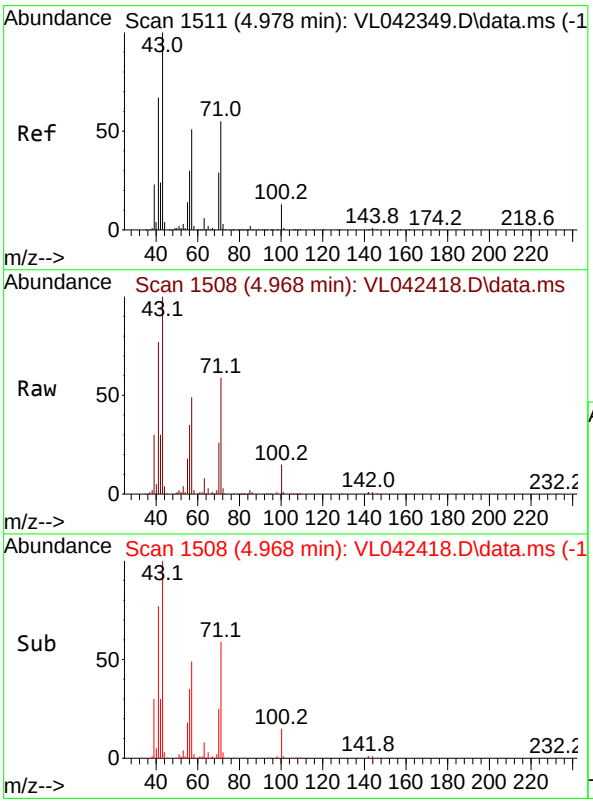

#9
Propene
Concen: 7.992 ppbv
RT: 1.482 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

Tgt Ion: 41 Resp: 74980

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 66.3 | 56.2 | 84.4 |

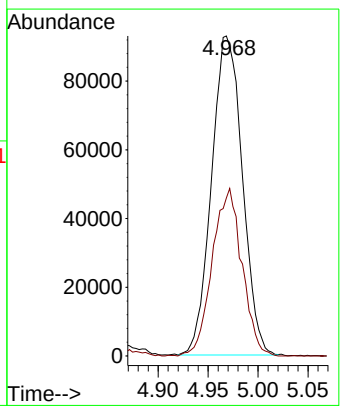


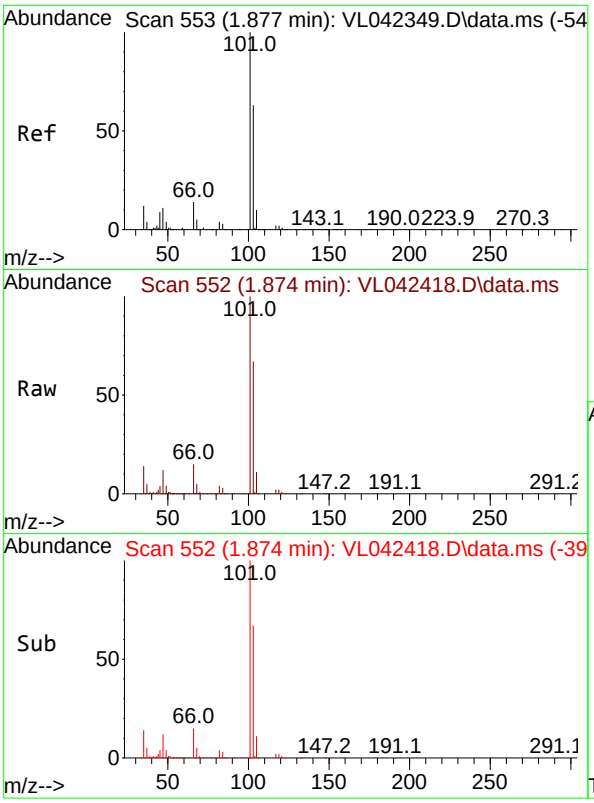




#10
Heptane
Concen: 7.565 ppbv
RT: 4.968 min Scan# 1508
Delta R.T. -0.010 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 43 Resp: 199403

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 50.6 | 39.9 | 59.9 |



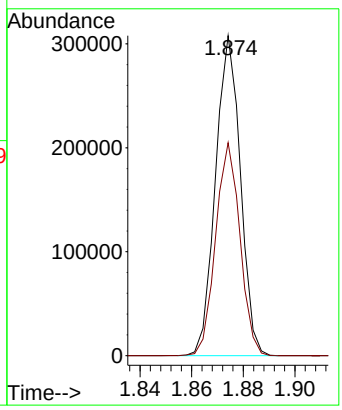


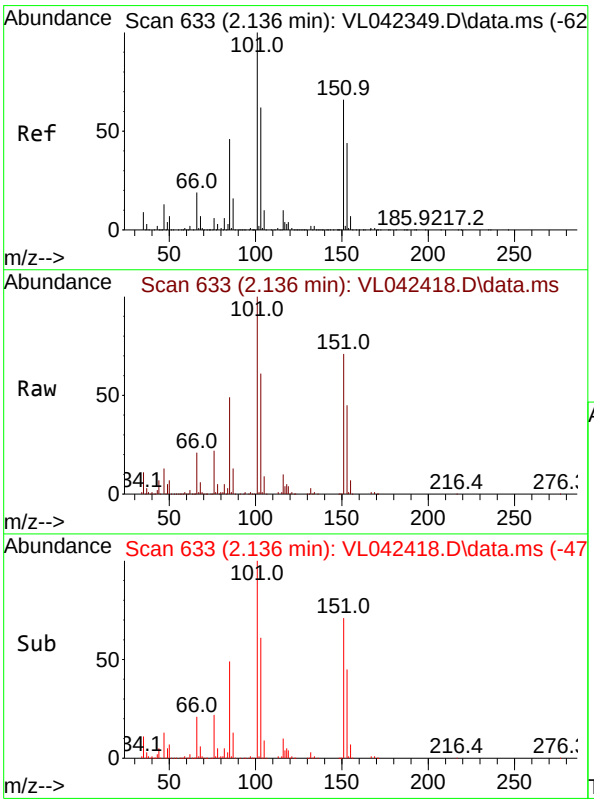

#11
Trichlorofluoromethane
Concen: 10.004 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

Tgt Ion:101 Resp: 205815

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 66.5 | 50.1 | 75.1 |

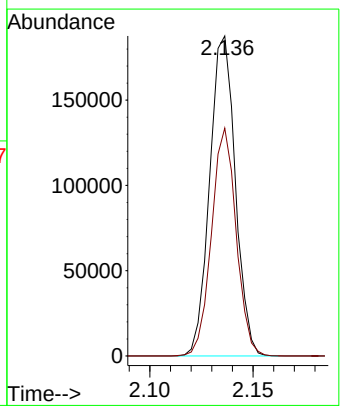


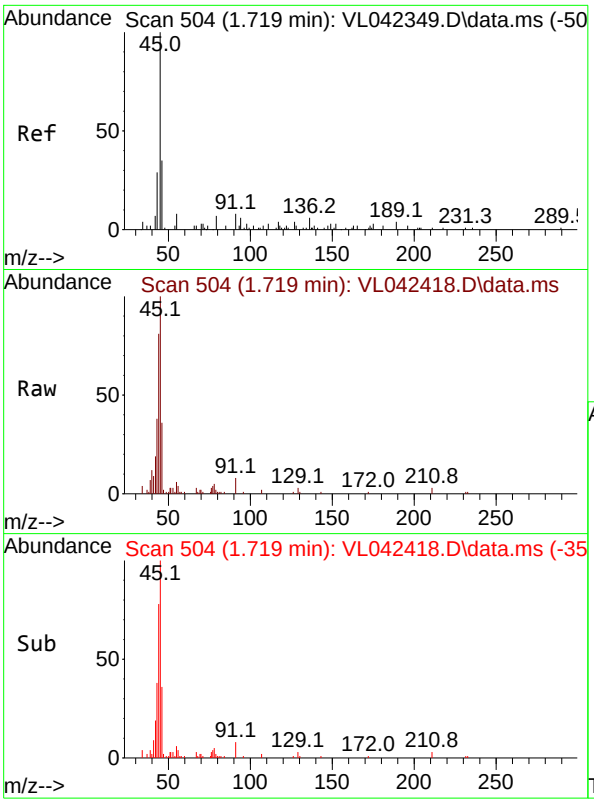




#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.619 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion:101 Resp: 161799

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 68.5 | 57.0 | 85.6 |



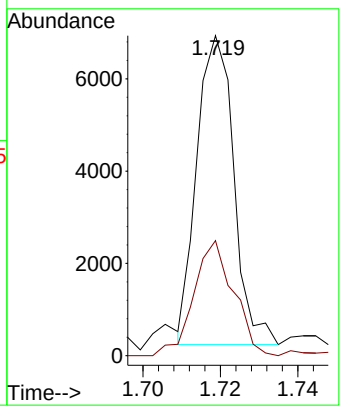


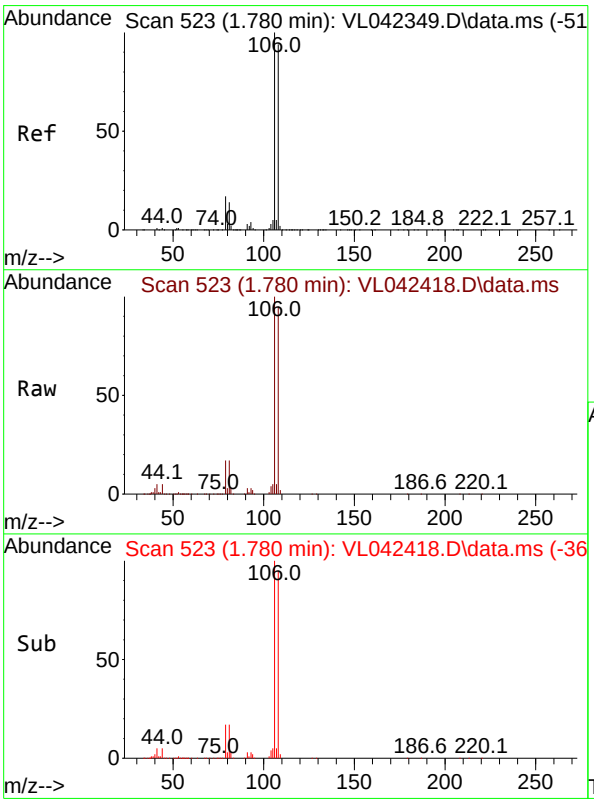

#13
Ethanol
Concen: 2.977 ppbv
RT: 1.719 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

Tgt Ion: 45 Resp: 4439

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 41.4 | 21.9 | 87.7 |

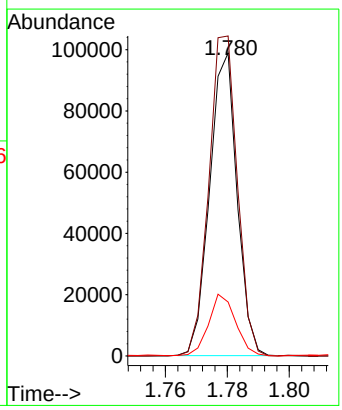


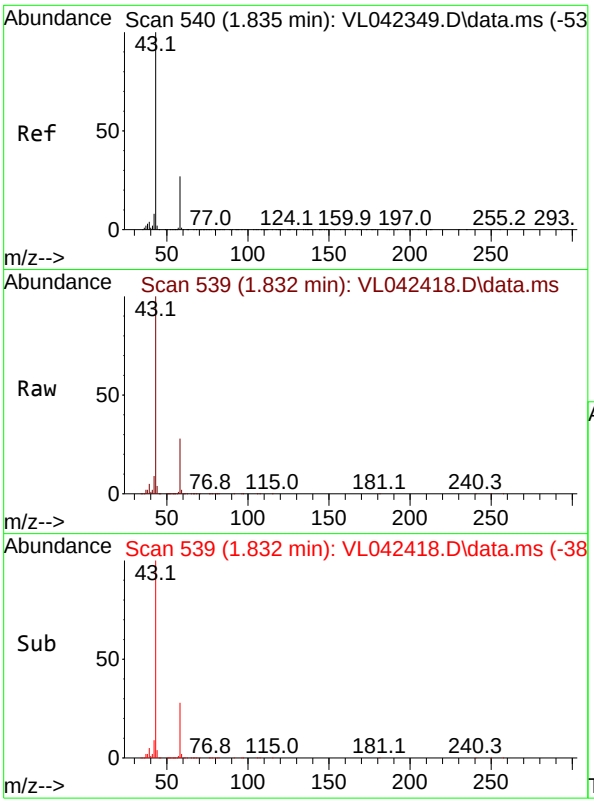




#14
Bromoethene
Concen: 9.581 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion:108 Resp: 60748

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 106 | 110.0 | 85.9 | 128.9 |
| 79 | 20.2 | 13.9 | 20.9 |



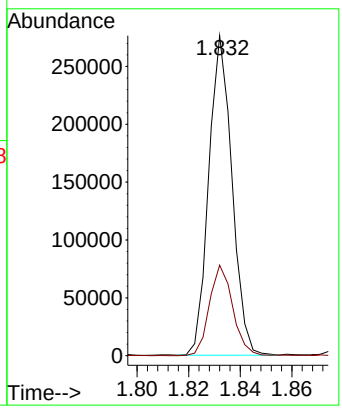


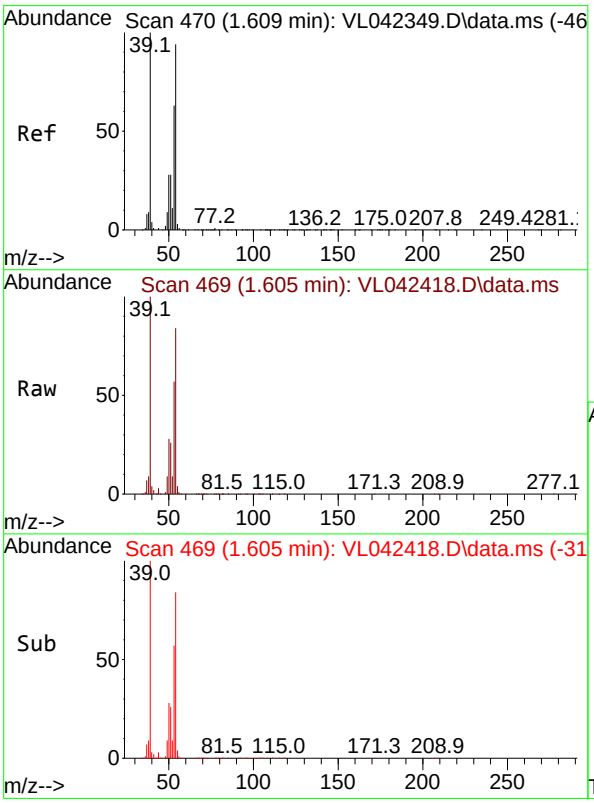

#15
Acetone
Concen: 8.613 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

Tgt Ion: 43 Resp: 172651

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 28.8 | 22.4 | 33.6 |

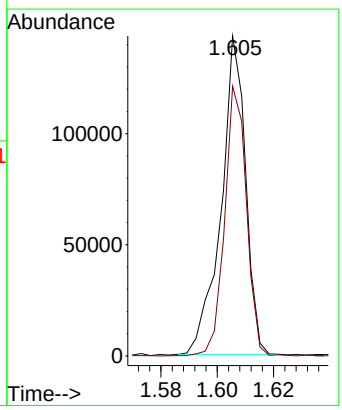


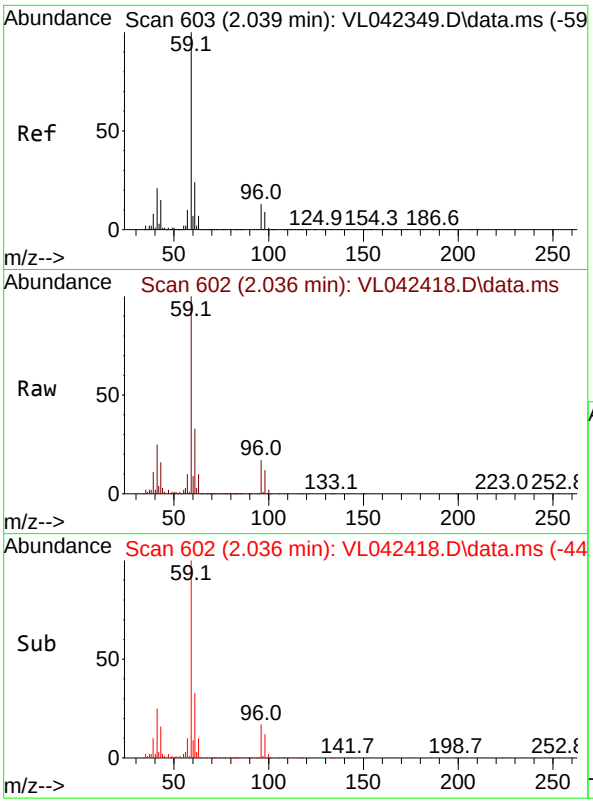




#16
1,3-Butadiene
Concen: 9.028 ppbv
RT: 1.605 min Scan# 469
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 39 Resp: 86553

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 75.3 | 64.9 | 97.3 |



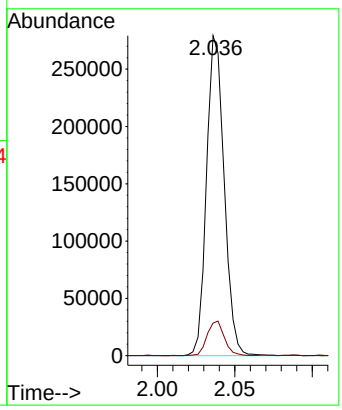


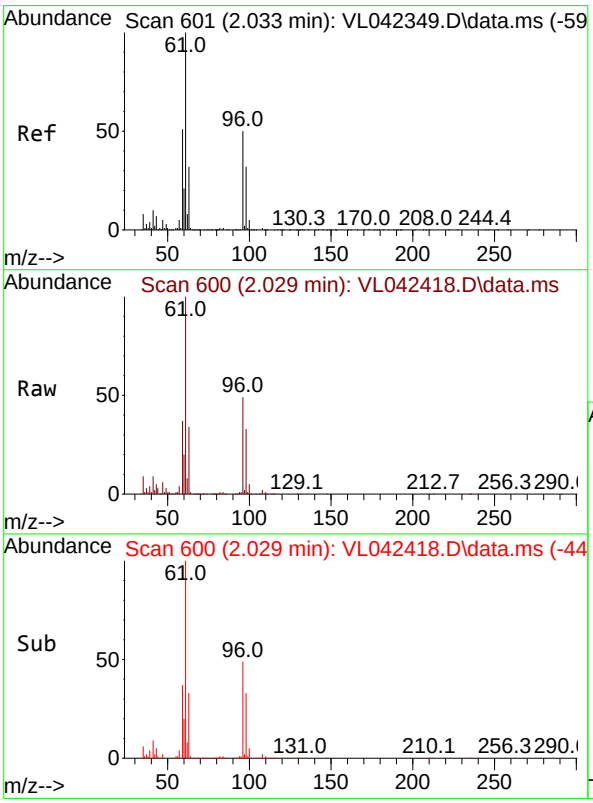

#17
tert-Butyl alcohol
Concen: 8.899 ppbv
RT: 2.036 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

Tgt Ion: 59 Resp: 221069

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.8 | 8.7 | 13.1 |

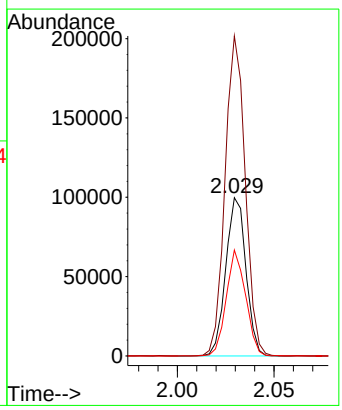


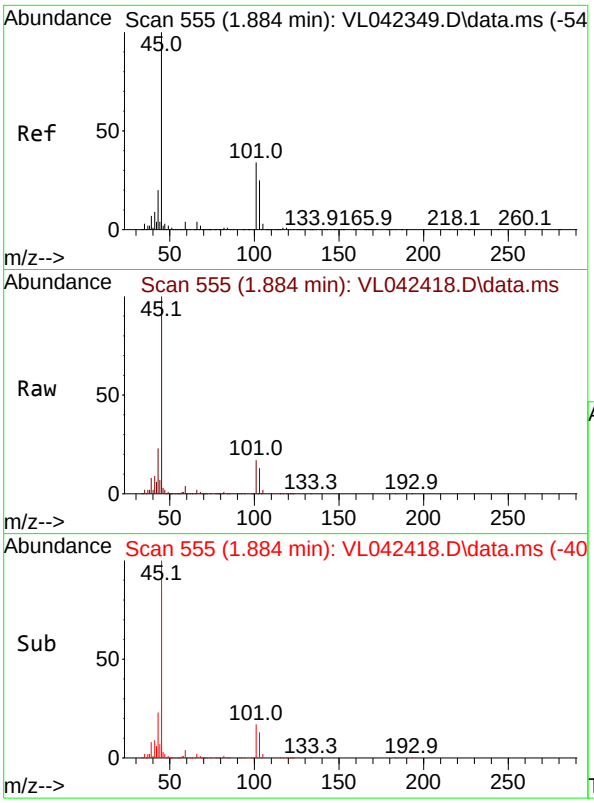




#18
1,1-Dichloroethene
Concen: 9.225 ppbv
RT: 2.029 min Scan# 600
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 96 Resp: 72496

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 202.1 | 160.2 | 240.2 |
| 98 | 66.9 | 51.0 | 76.4 |



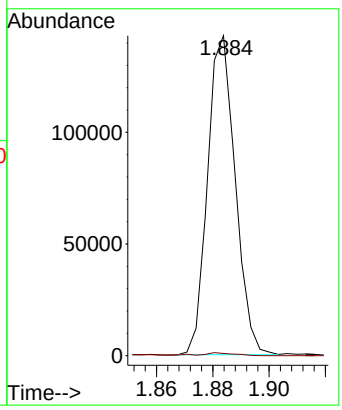


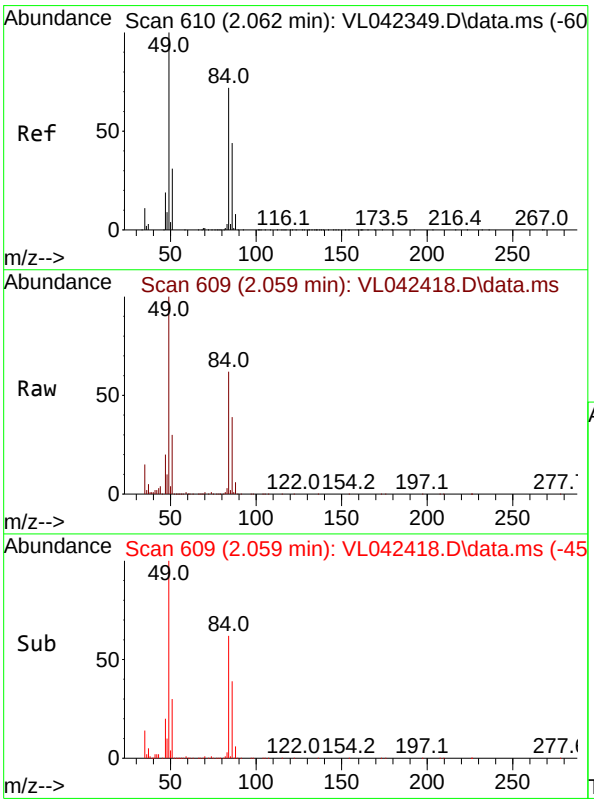

#19
Isopropyl Alcohol
Concen: 8.758 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

Tgt Ion: 45 Resp: 97525

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 51.0 | 34.5 | 51.7 |

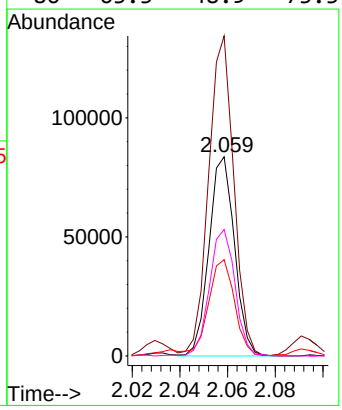


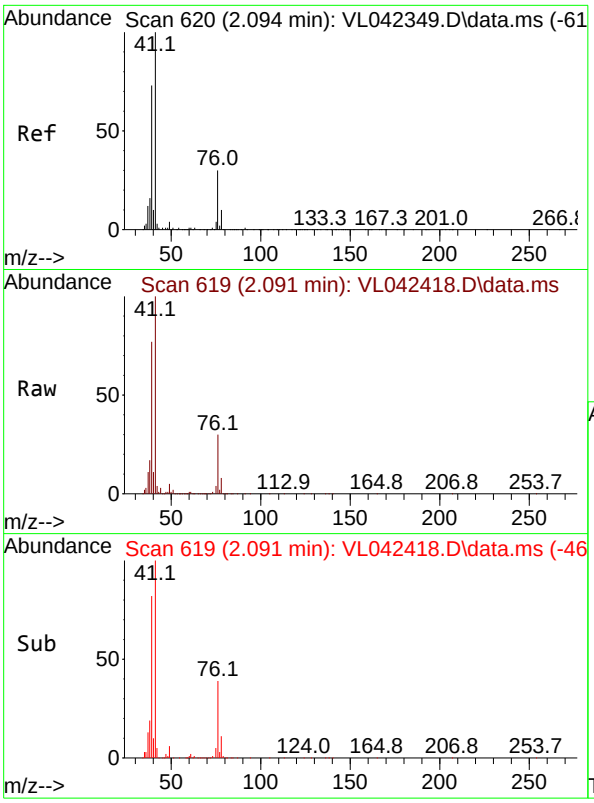




#20
Methylene Chloride
Concen: 7.920 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 84 Resp: 62175

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 159.9 | 111.6 | 167.4 |
| 51 | 47.8 | 35.1 | 52.7 |
| 86 | 63.3 | 48.9 | 73.3 |



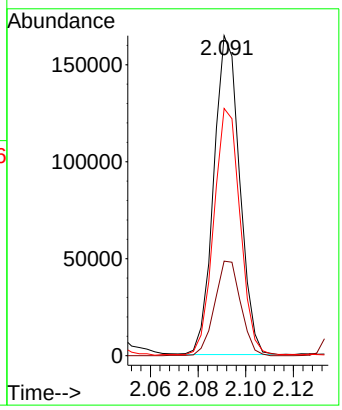


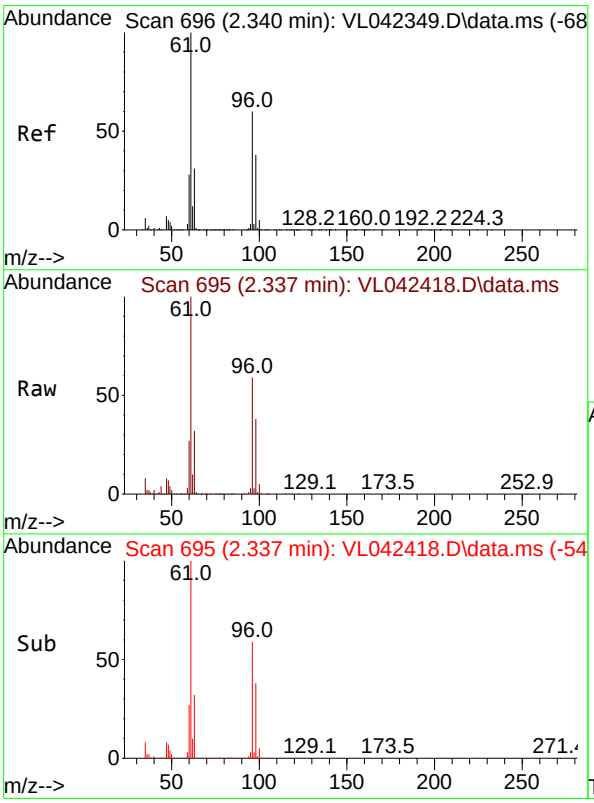

#21
Allyl Chloride
Concen: 8.964 ppbv
RT: 2.091 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

Tgt Ion: 41 Resp: 124058

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 29.9 | 24.8 | 37.2 |
| 39 | 78.6 | 60.6 | 90.8 |

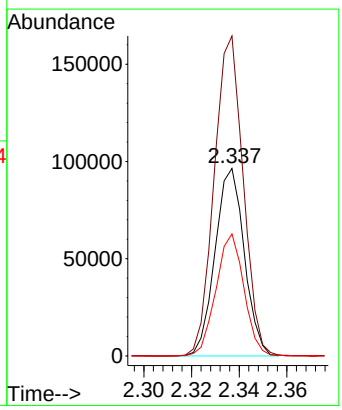


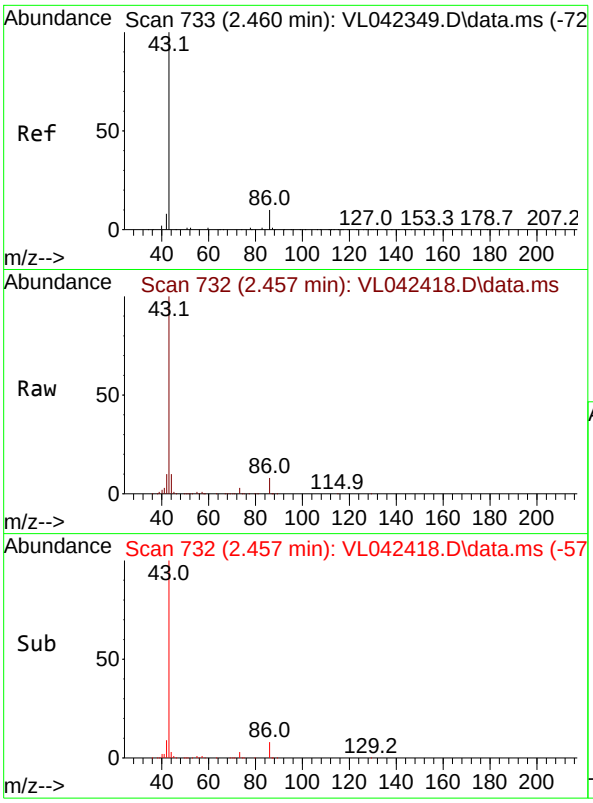




#22
trans-1,2-Dichloroethene
Concen: 9.184 ppbv
RT: 2.337 min Scan# 695
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 96 Resp: 82175

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 170.5 | 133.7 | 200.5 |
| 98 | 65.0 | 50.3 | 75.5 |



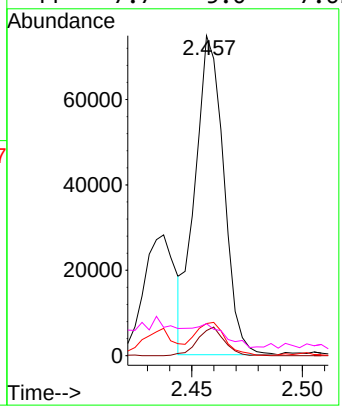


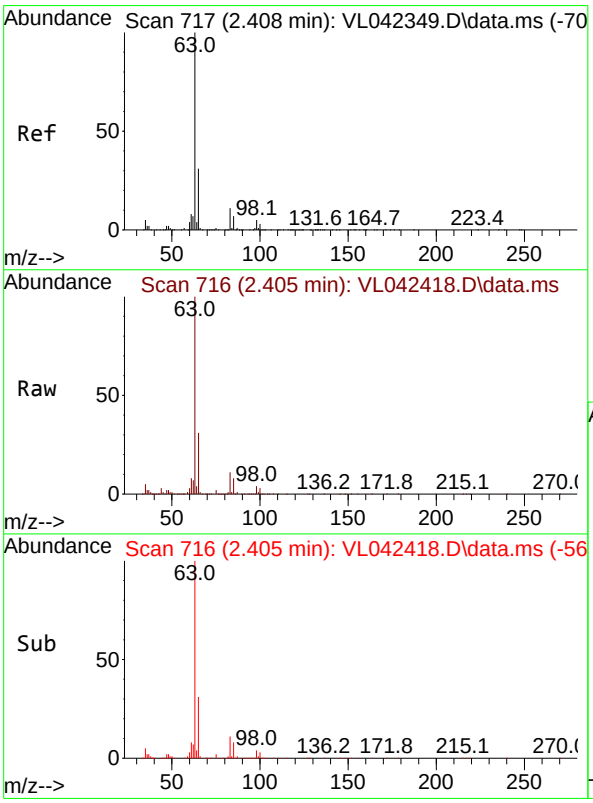

#23
Vinyl Acetate
Concen: 8.283 ppbv
RT: 2.457 min Scan# 7
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

Tgt Ion: 43 Resp: 67206

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 7.9 | 6.5 | 9.7 |
| 42 | 9.8 | 7.8 | 11.8 |
| 44 | 7.7 | 5.0 | 7.6# |

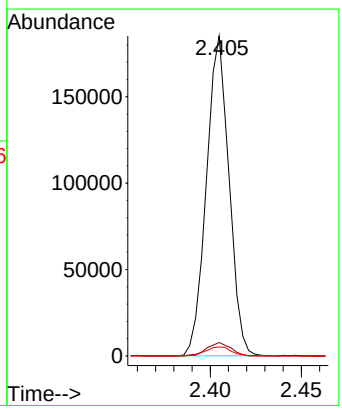


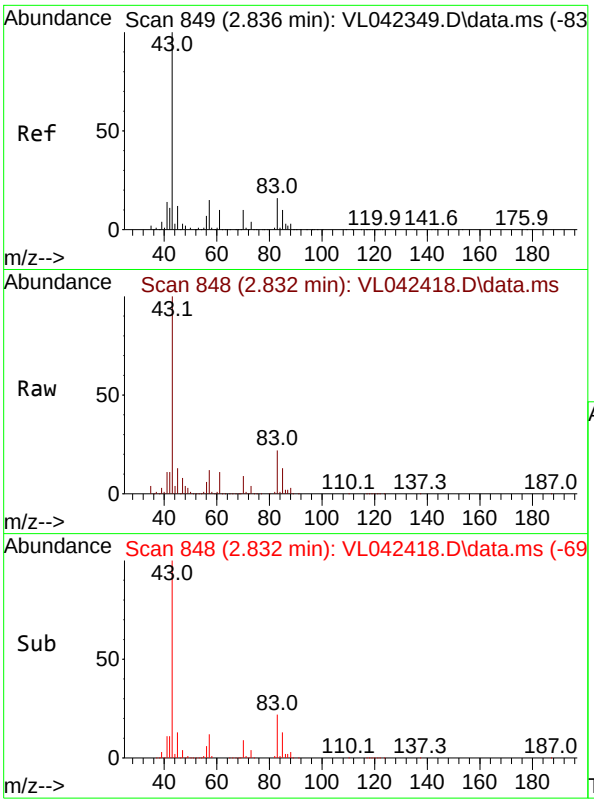




#24
1,1-Dichloroethane
Concen: 9.393 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 63 Resp: 159644

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 4.2 | 2.3 | 6.8 |
| 100 | 2.8 | 1.6 | 4.8 |



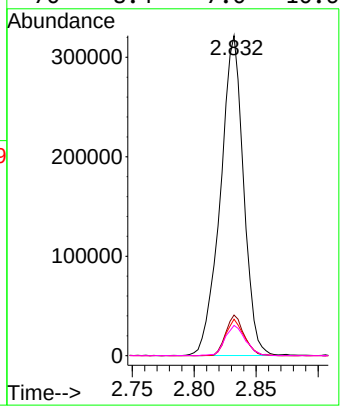


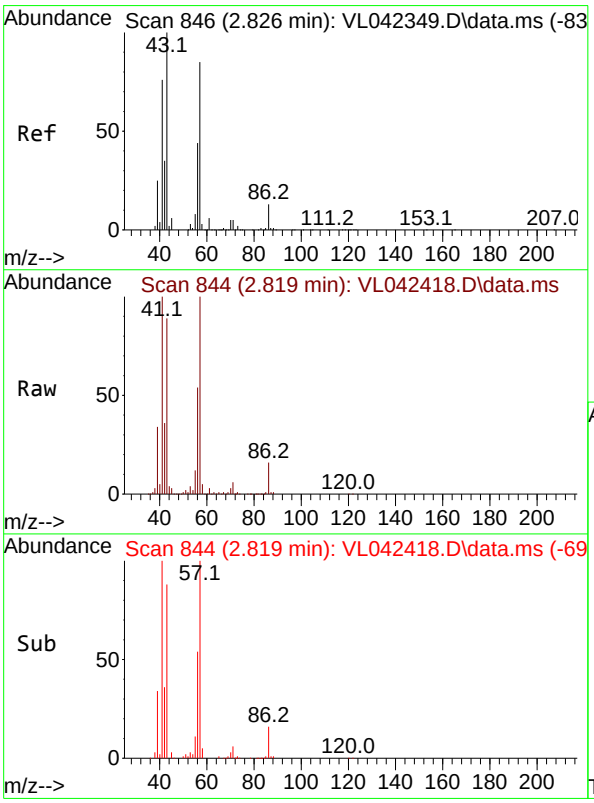

#25
Ethyl Acetate
Concen: 8.485 ppbv
RT: 2.832 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

Tgt Ion: 43 Resp: 419372

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 10.2 | 8.3 | 12.5 |
| 61 | 9.1 | 7.3 | 10.9 |
| 70 | 8.4 | 7.0 | 10.6 |

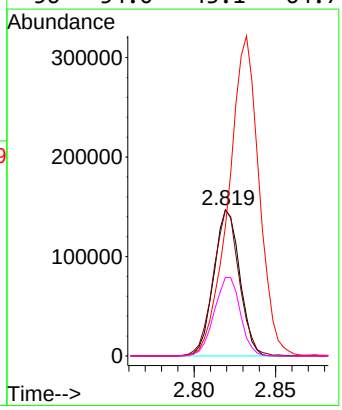


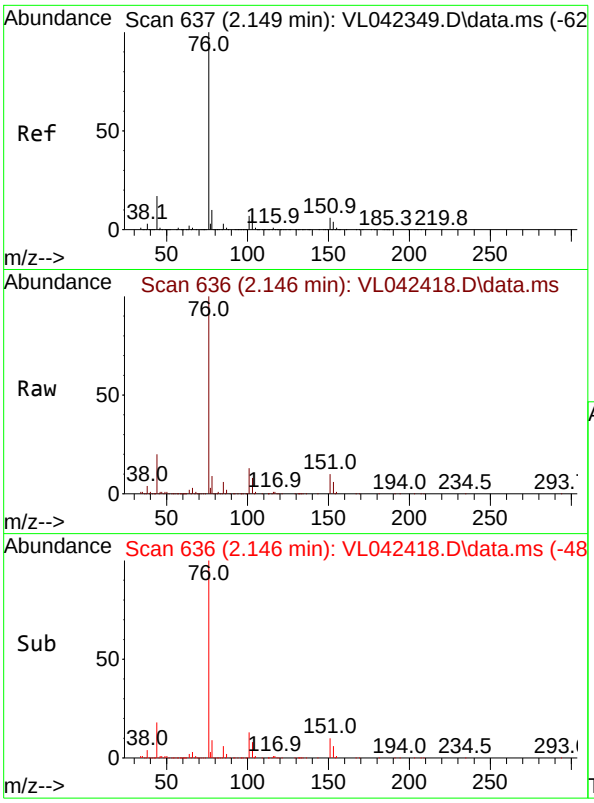




#26
Hexane
Concen: 8.112 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.007 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 57 Resp: 162255

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 100.5 | 77.9 | 116.9 |
| 43 | 258.8 | 208.4 | 312.6 |
| 56 | 54.0 | 43.1 | 64.7 |



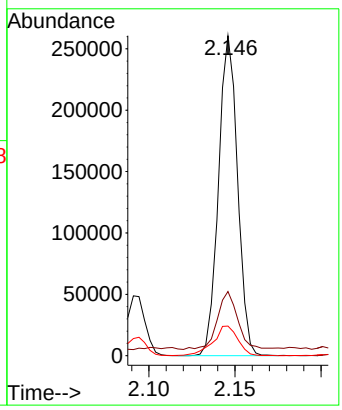


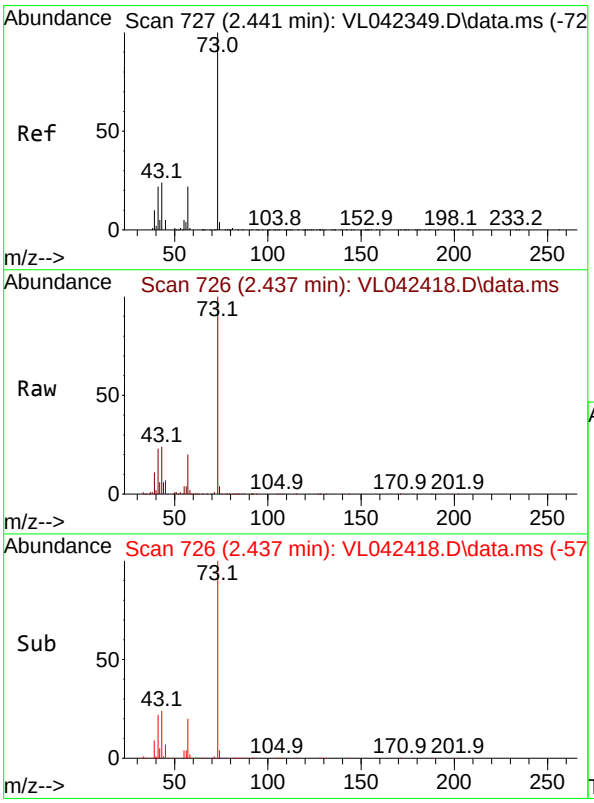

#27
Carbon Disulfide
Concen: 9.377 ppbv
RT: 2.146 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

Tgt Ion: 76 Resp: 200806

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 21.3 | 15.5 | 23.3 |
| 78 | 12.0 | 9.3 | 13.9 |

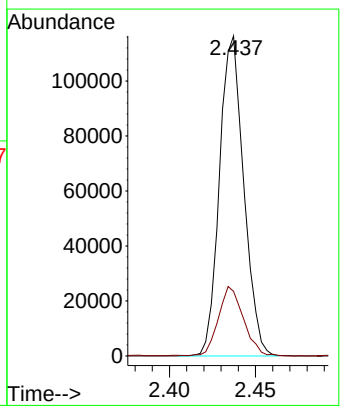


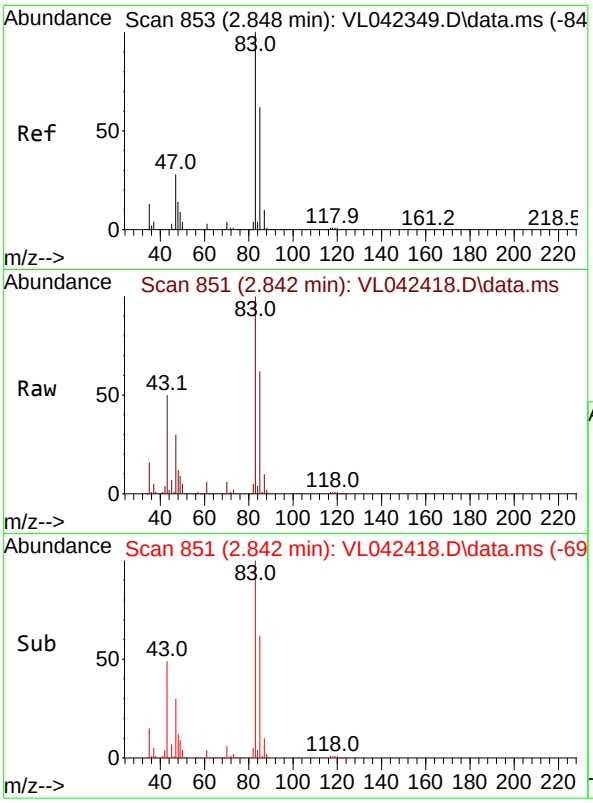




#28
Methyl tert-Butyl Ether
Concen: 8.718 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 73 Resp: 114239

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.6 | 21.3 | 31.9 |



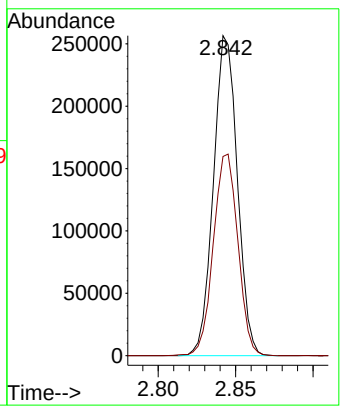


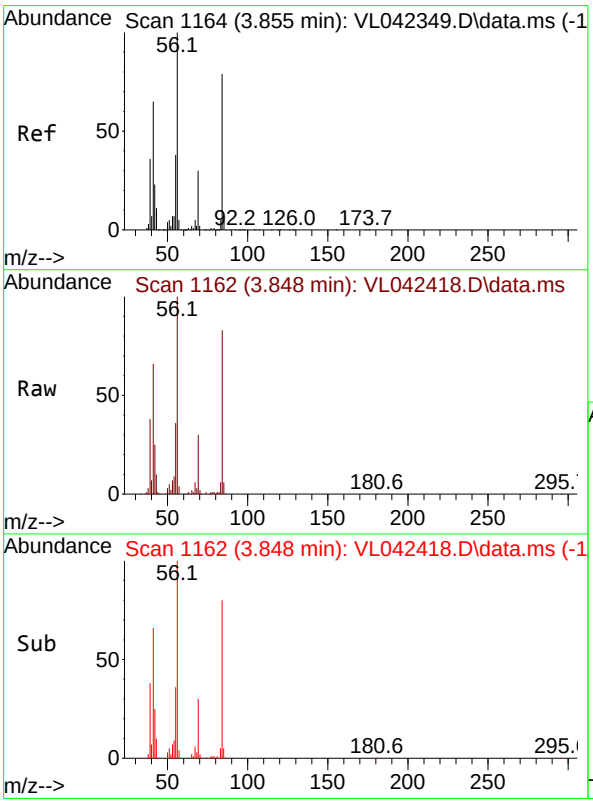

#29
Chloroform
Concen: 9.751 ppbv
RT: 2.842 min Scan# 8
Delta R.T. -0.007 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

Tgt Ion: 83 Resp: 275655

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.3 | 50.0 | 75.0 |

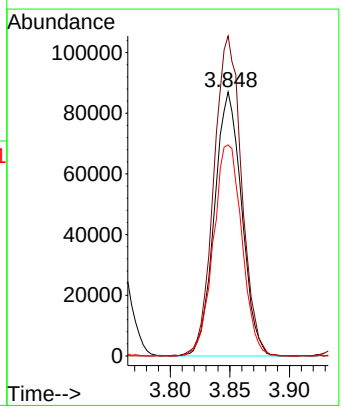


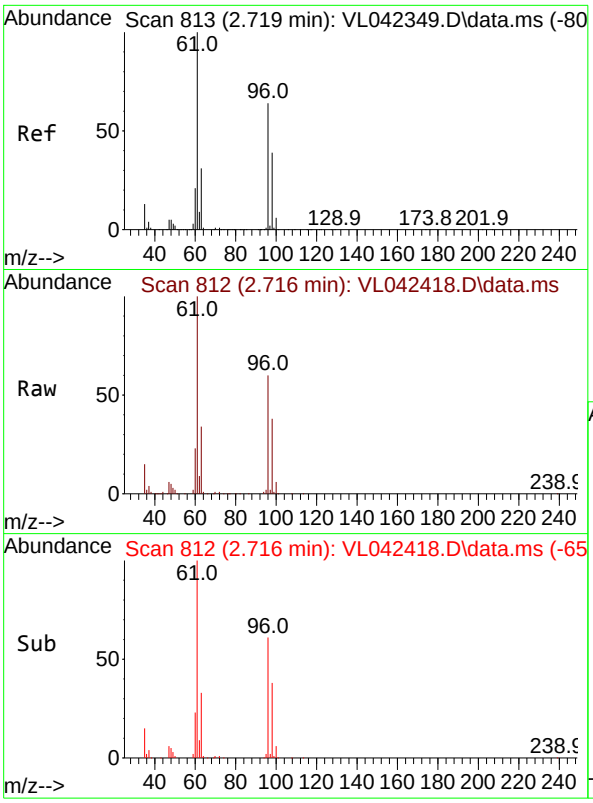




#30
Cyclohexane
Concen: 8.583 ppbv
RT: 3.848 min Scan# 1162
Delta R.T. -0.007 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 84 Resp: 138766

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 122.9 | 101.0 | 151.4 |
| 41 | 83.5 | 67.4 | 101.0 |



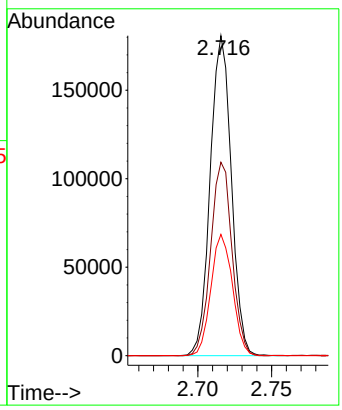


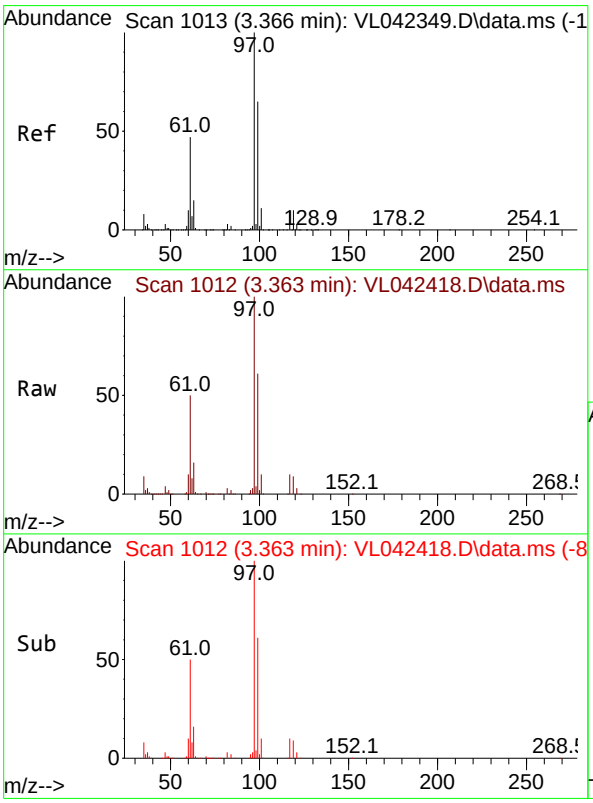

#31
cis-1,2-Dichloroethene
Concen: 9.464 ppbv
RT: 2.716 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

Tgt Ion: 61 Resp: 179960

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 60.5 | 50.8 | 76.2 |
| 98 | 37.9 | 30.9 | 46.3 |

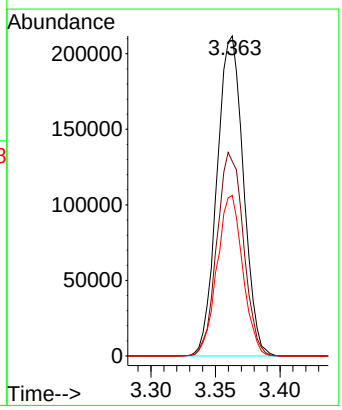


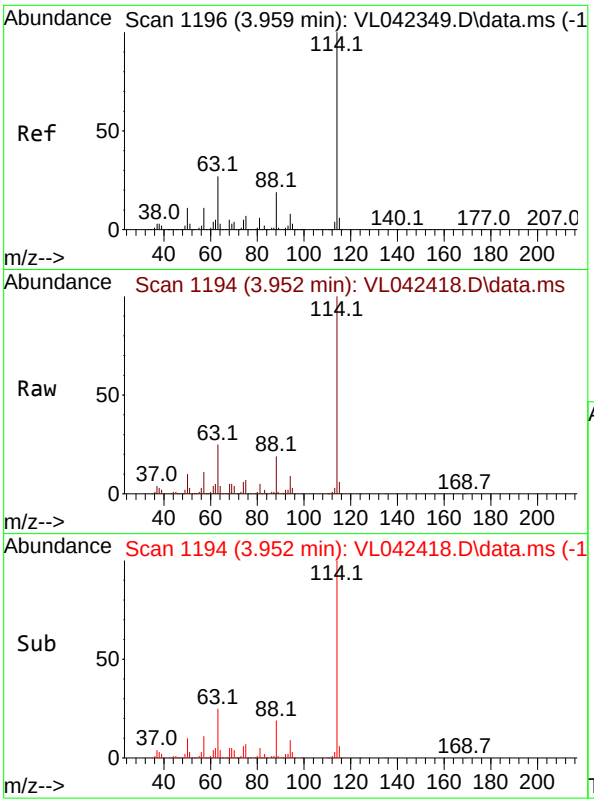




#32
1,1,1-Trichloroethane
Concen: 9.469 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 97 Resp: 301358

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.9 | 51.0 | 76.4 |
| 61 | 48.9 | 38.8 | 58.2 |



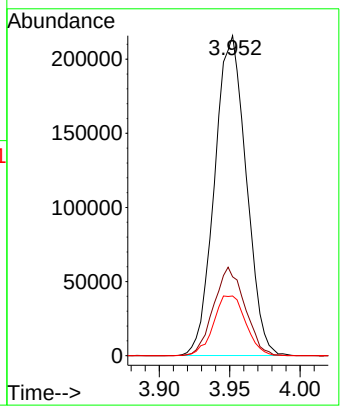


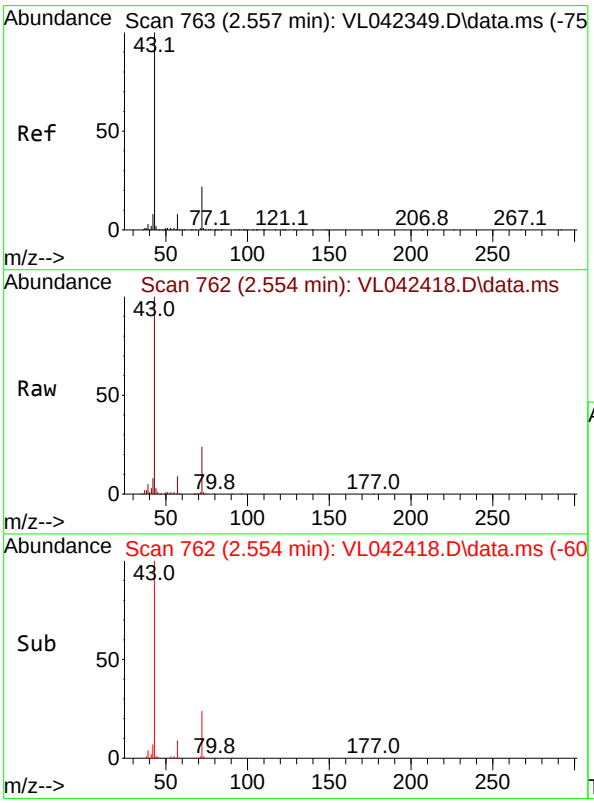

#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 11
Delta R.T. -0.007 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

Tgt Ion:114 Resp: 337202

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 27.4 | 21.8 | 32.6 |
| 88 | 19.2 | 15.5 | 23.3 |

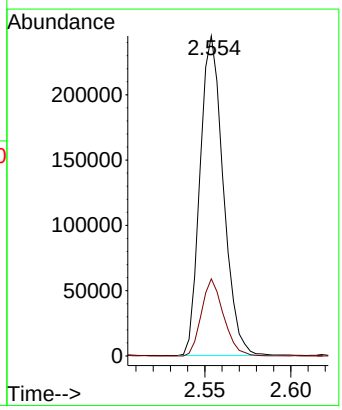


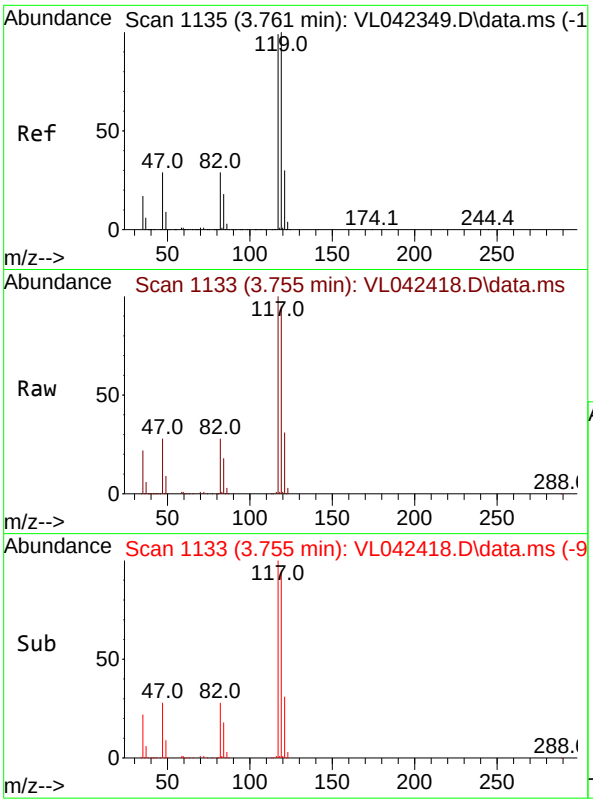




#34
2-Butanone
Concen: 8.628 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 43 Resp: 230104

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 23.0 | 18.2 | 27.2 |



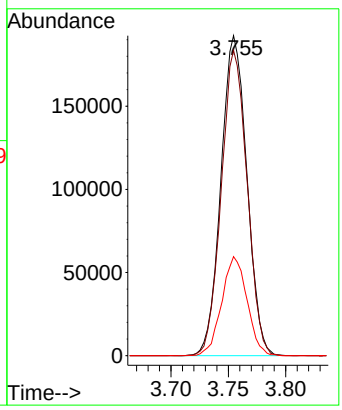


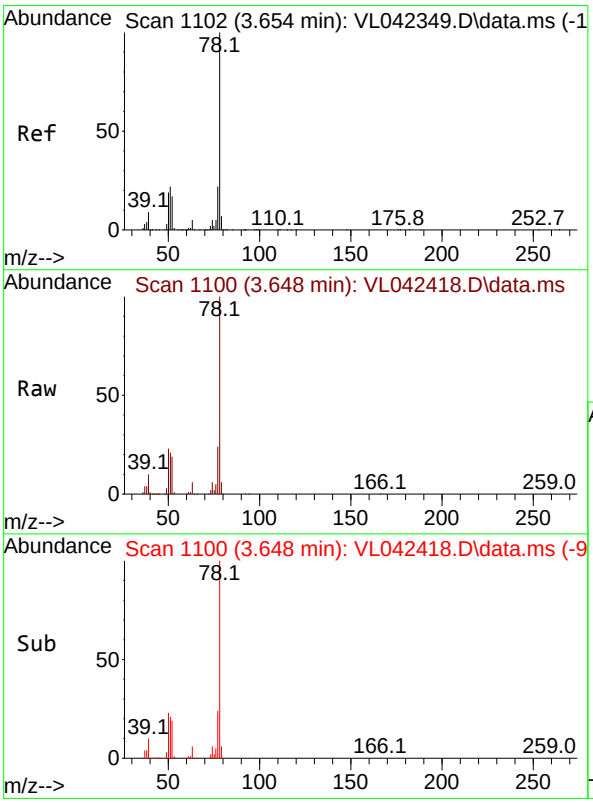

#35
Carbon Tetrachloride
Concen: 9.906 ppbv
RT: 3.755 min Scan# 11
Delta R.T. -0.007 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

Tgt Ion:117 Resp: 302298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 95.4 | 80.5 | 120.7 |
| 121 | 30.9 | 24.2 | 36.2 |

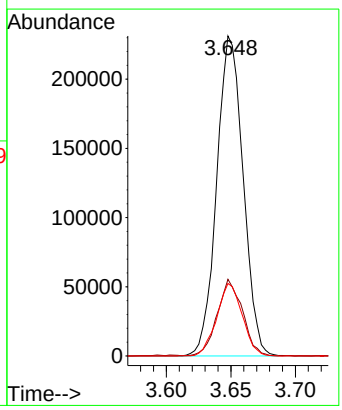


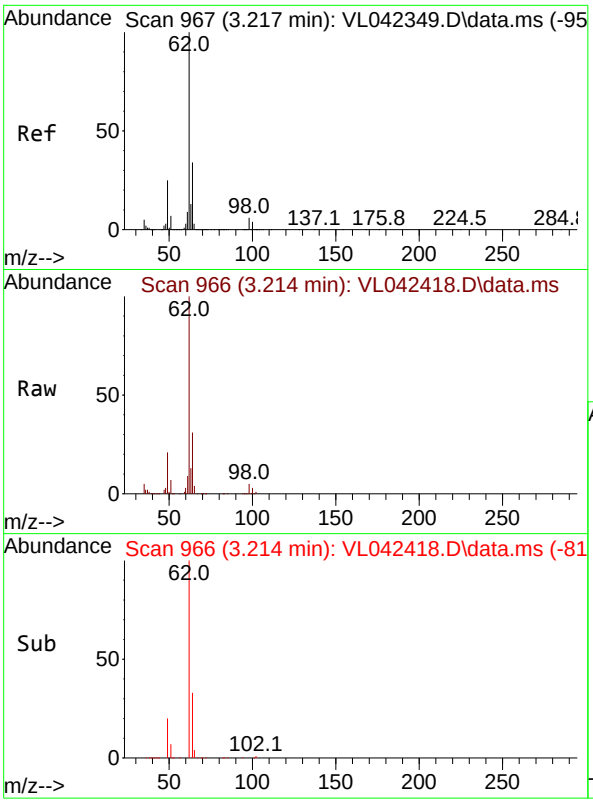




#36
Benzene
Concen: 9.049 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. -0.007 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 78 Resp: 329117

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.8 | 17.4 | 26.0 |
| 50 | 22.7 | 15.5 | 23.3 |



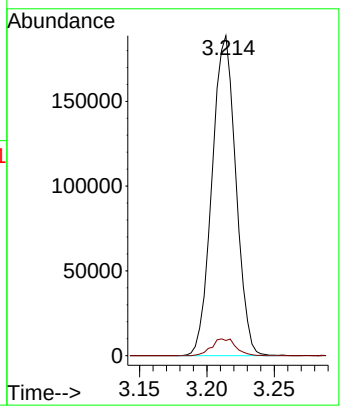


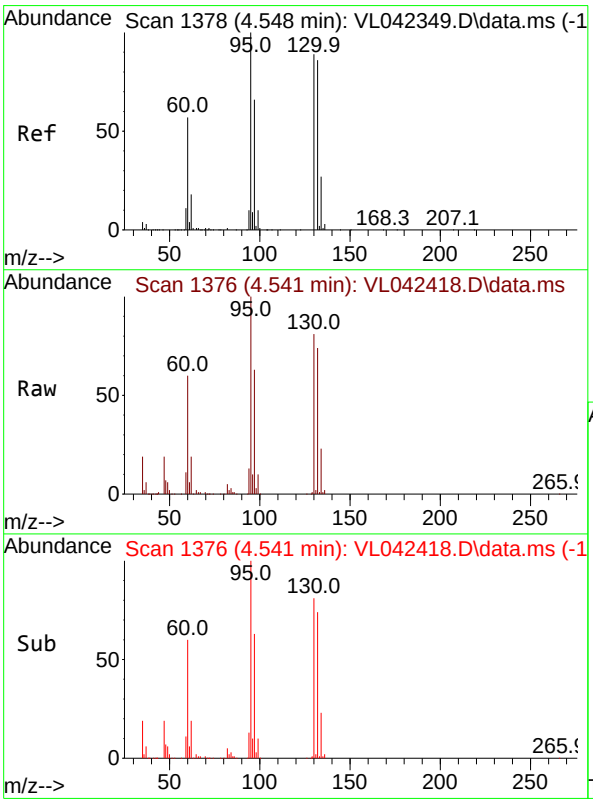

#37
1,2-Dichloroethane
Concen: 10.641 ppbv
RT: 3.214 min Scan# 9
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

Tgt Ion: 62 Resp: 232279

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 5.4 | 5.1 | 7.7 |

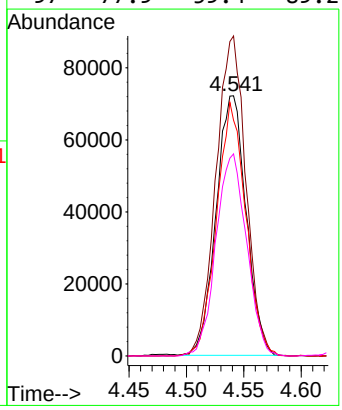


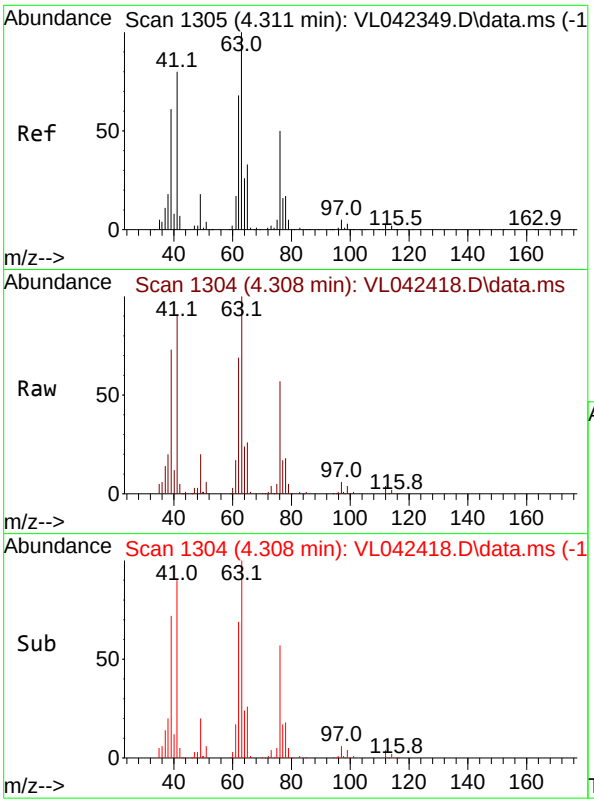




#38
Trichloroethene
Concen: 8.252 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. -0.007 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion:130 Resp: 131178

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 123.1 | 89.8 | 134.6 |
| 132 | 90.7 | 77.7 | 116.5 |
| 97 | 77.9 | 59.4 | 89.2 |



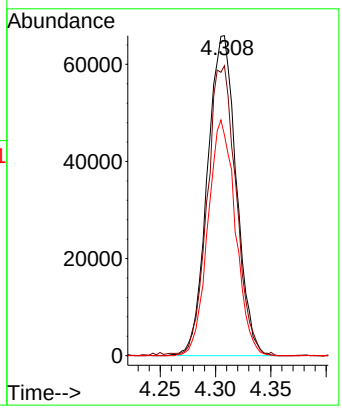


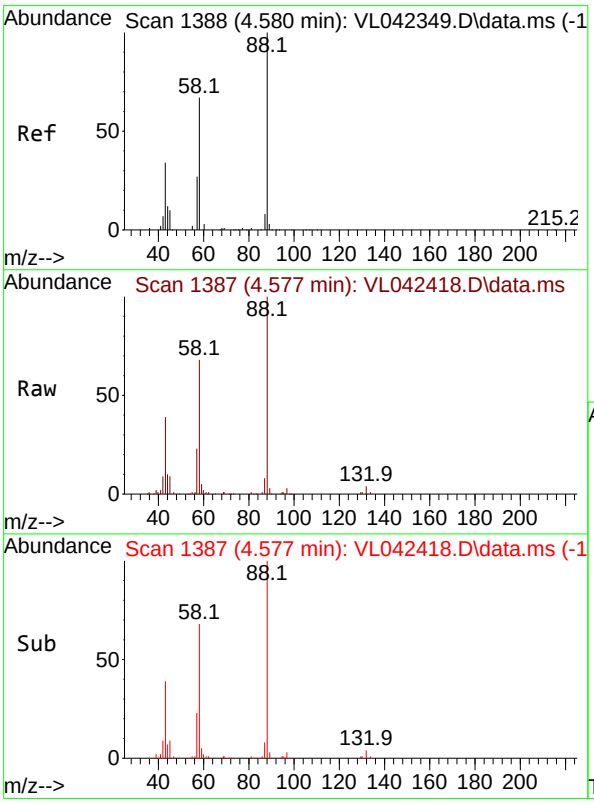

#39
1,2-Dichloropropane
Concen: 8.831 ppbv
RT: 4.308 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

Tgt Ion: 63 Resp: 119692

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 90.6 | 64.2 | 96.2 |
| 62 | 69.0 | 54.3 | 81.5 |

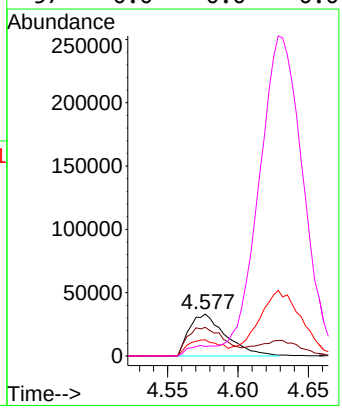


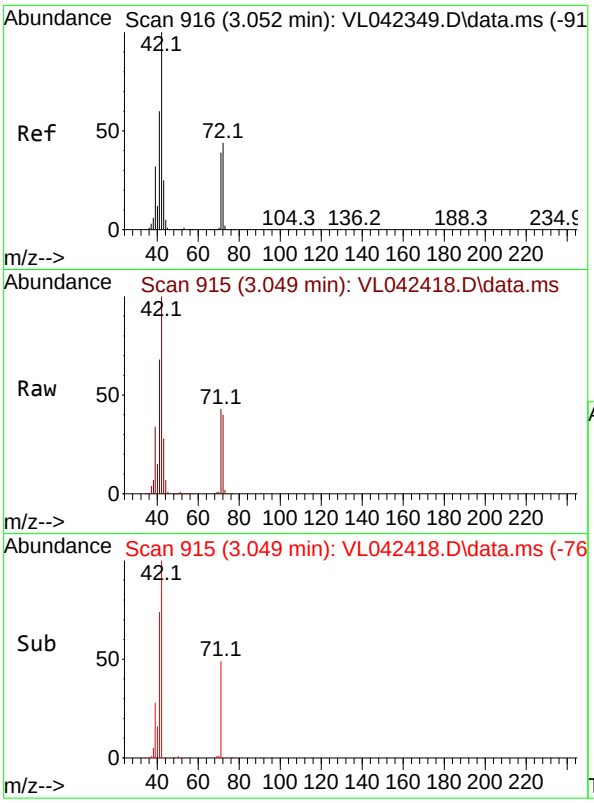




#40
1,4-Dioxane
Concen: 8.010 ppbv
RT: 4.577 min Scan# 1387
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 88 Resp: 59666

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 71.2 | 61.4 | 92.0 |
| 43 | 37.7 | 23.2 | 34.8# |
| 57 | 0.0 | 0.0 | 0.0 |



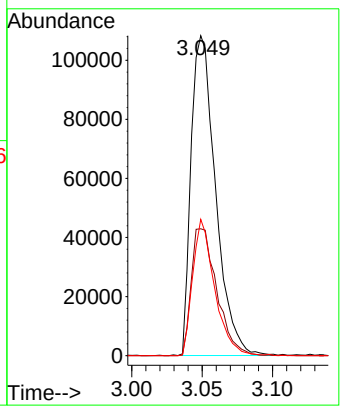


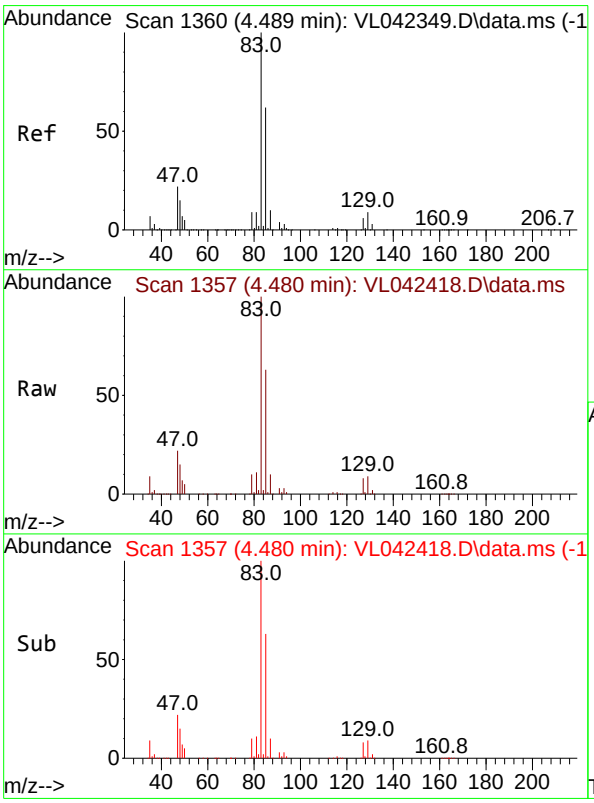

#41
Tetrahydrofuran
Concen: 8.428 ppbv
RT: 3.049 min Scan# 91
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

Tgt Ion: 42 Resp: 131046

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 41.4 | 32.3 | 48.5 |
| 71 | 38.3 | 31.4 | 47.2 |

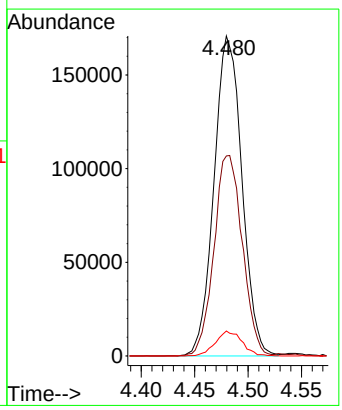


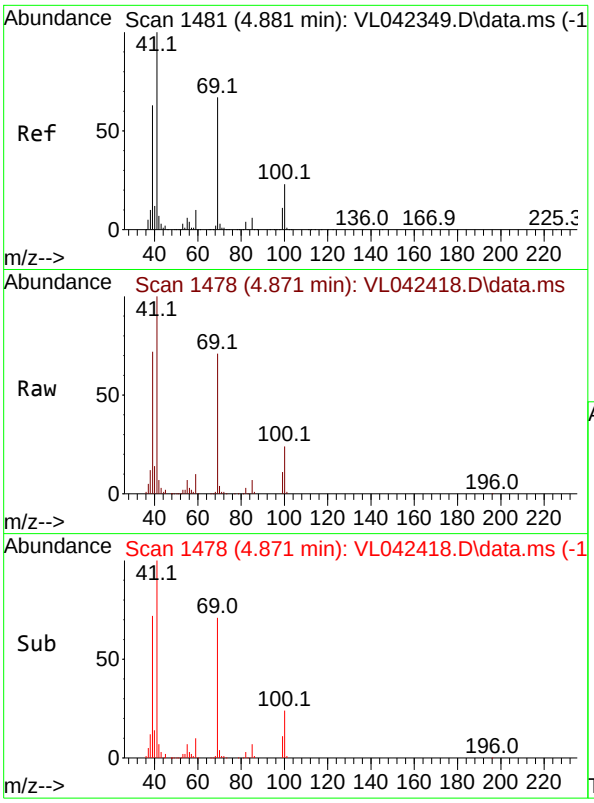




#42
Bromodichloromethane
Concen: 10.222 ppbv
RT: 4.480 min Scan# 1357
Delta R.T. -0.010 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 83 Resp: 310553

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.5 | 49.7 | 74.5 |
| 127 | 7.8 | 5.1 | 7.7# |



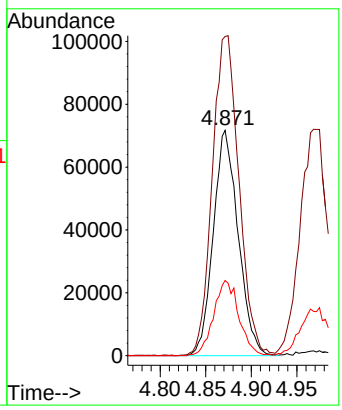


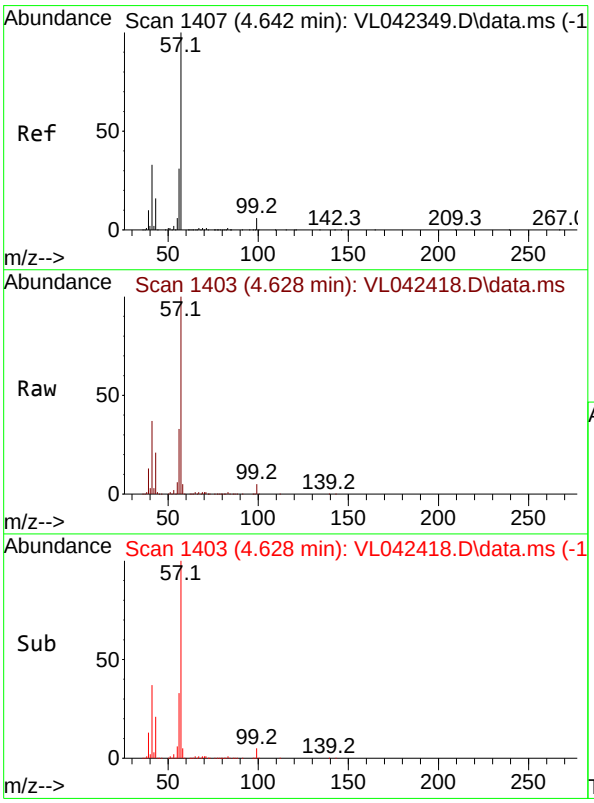

#43
Methyl Methacrylate
Concen: 8.312 ppbv
RT: 4.871 min Scan# 14
Delta R.T. -0.010 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

Tgt Ion: 69 Resp: 136249

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 151.8 | 118.6 | 177.8 |
| 100 | 33.8 | 28.2 | 42.2 |

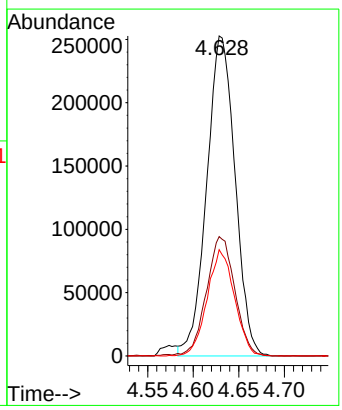


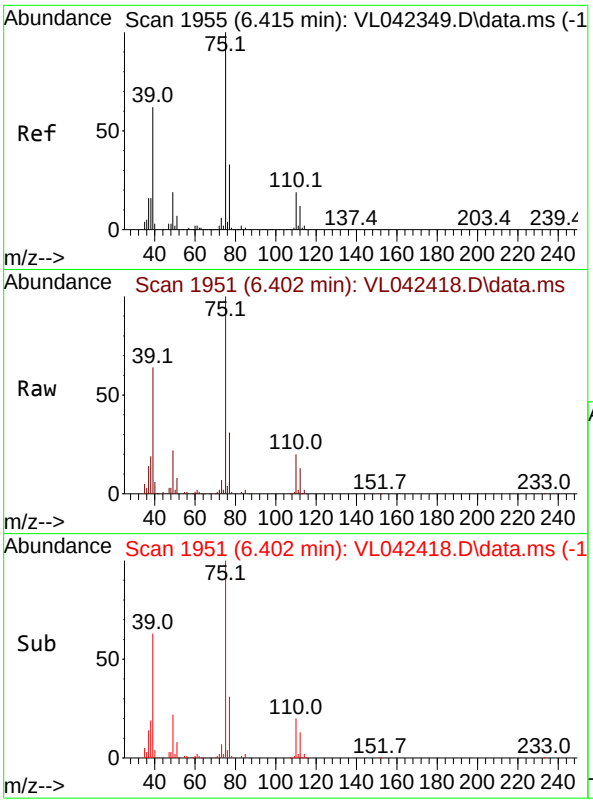




#44
2,2,4-Trimethylpentane
Concen: 8.707 ppbv
RT: 4.628 min Scan# 1403
Delta R.T. -0.013 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 57 Resp: 546967

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 37.6 | 27.2 | 40.8 |
| 56 | 31.9 | 25.7 | 38.5 |



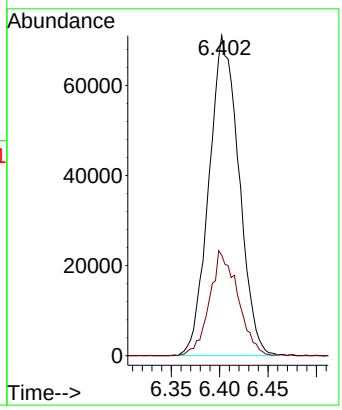


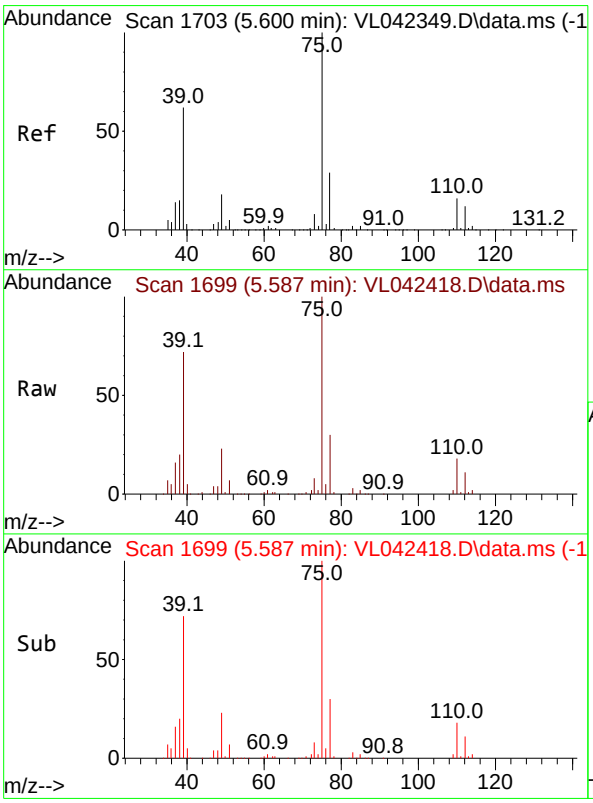

#45
t-1,3-Dichloropropene
Concen: 9.133 ppbv
RT: 6.402 min Scan# 1
Delta R.T. -0.013 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

Tgt Ion: 75 Resp: 152930

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.4 | 27.0 | 40.6 |

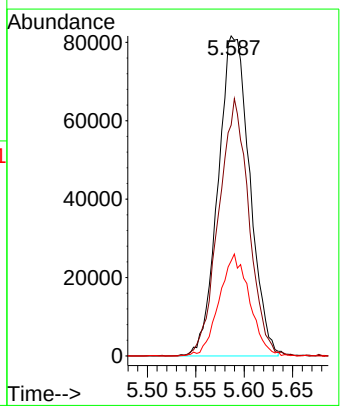


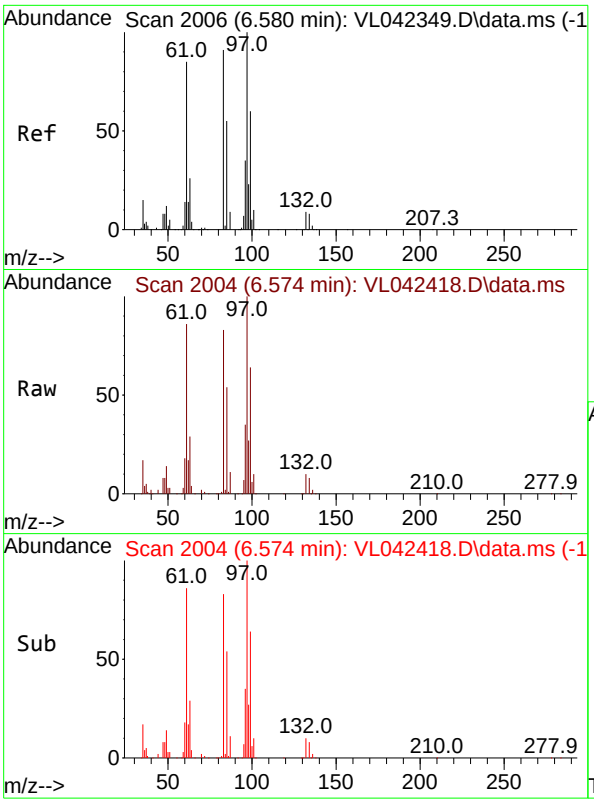




#46
cis-1,3-Dichloropropene
Concen: 9.055 ppbv
RT: 5.587 min Scan# 1699
Delta R.T. -0.013 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 75 Resp: 185557

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 39 | 72.0 | 50.0 | 75.0 |
| 77 | 29.7 | 23.0 | 34.6 |



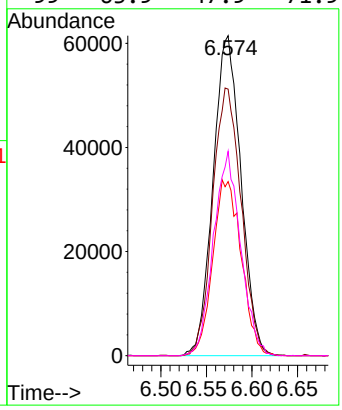


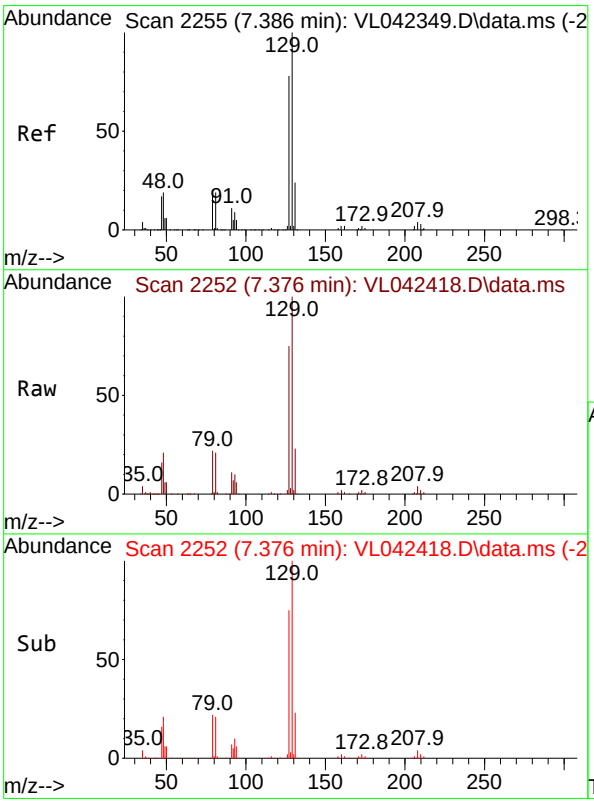

#47
1,1,2-Trichloroethane
Concen: 9.474 ppbv
RT: 6.574 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

Tgt Ion: 97 Resp: 130821

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 83.3 | 72.8 | 109.2 |
| 85 | 54.4 | 44.2 | 66.4 |
| 99 | 63.9 | 47.9 | 71.9 |

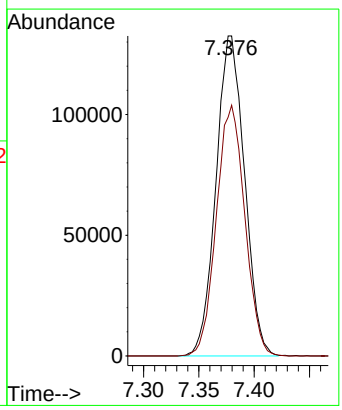


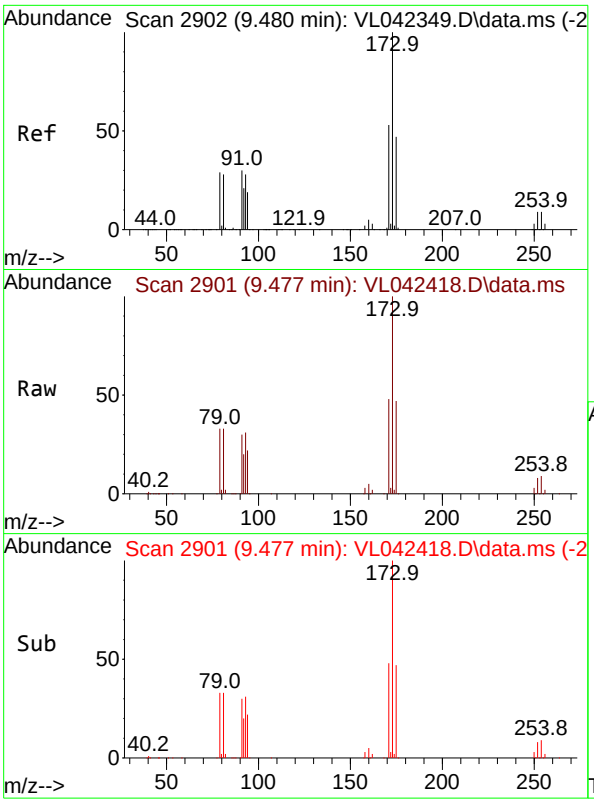




#48
Dibromochloromethane
Concen: 9.753 ppbv
RT: 7.376 min Scan# 2252
Delta R.T. -0.010 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion:129 Resp: 237927

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.1 | 39.1 | 117.3 |



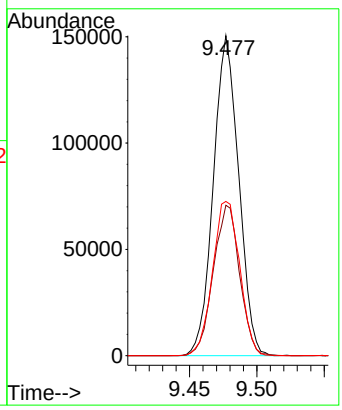


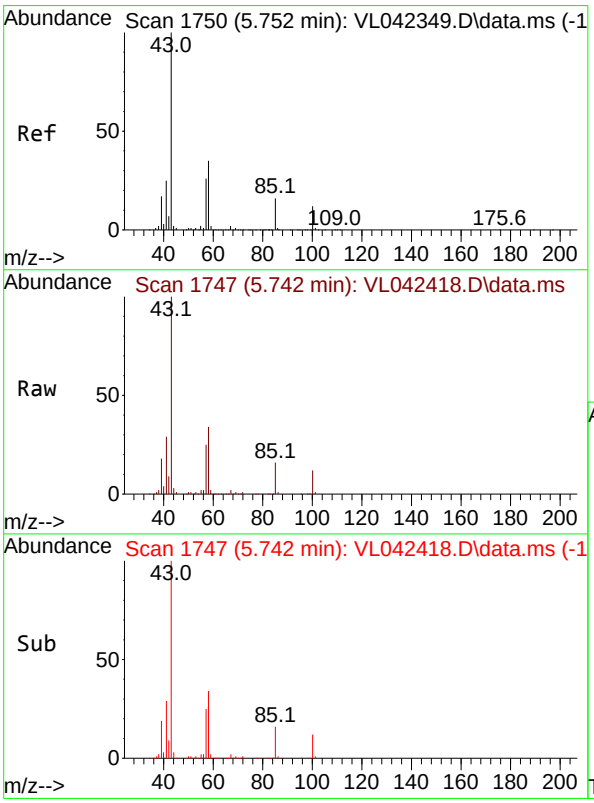

#49
Bromoform
Concen: 9.229 ppbv
RT: 9.477 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

Tgt Ion:173 Resp: 196872

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.8 | 38.2 | 57.2 |
| 171 | 51.7 | 40.9 | 61.3 |

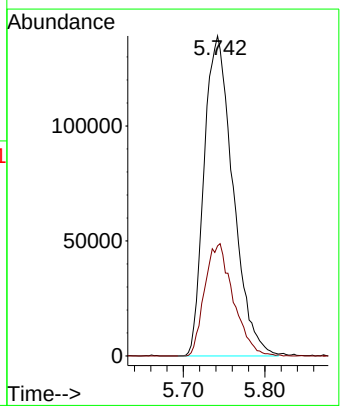


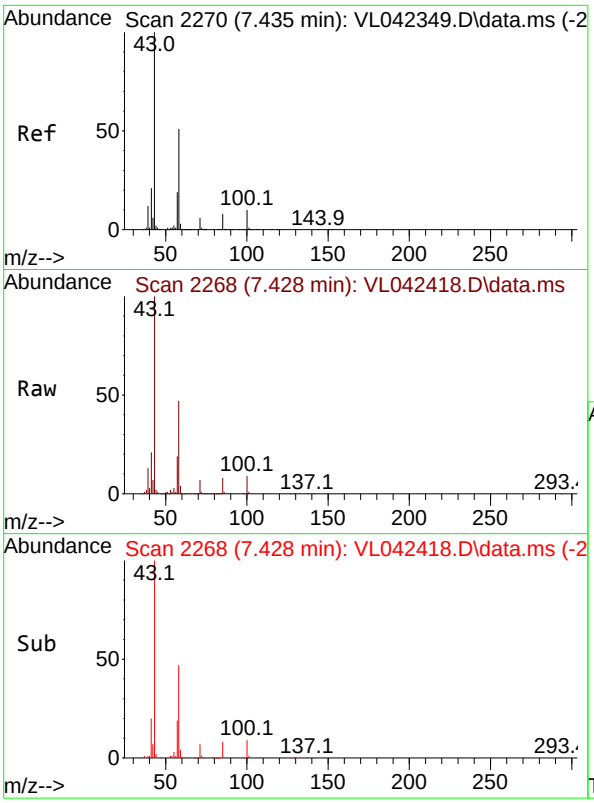




#50
4-Methyl-2-Pentanone
Concen: 7.726 ppbv
RT: 5.742 min Scan# 1747
Delta R.T. -0.010 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 43 Resp: 342379

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 34.9 | 28.6 | 43.0 |



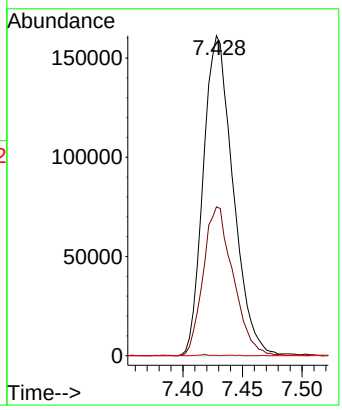


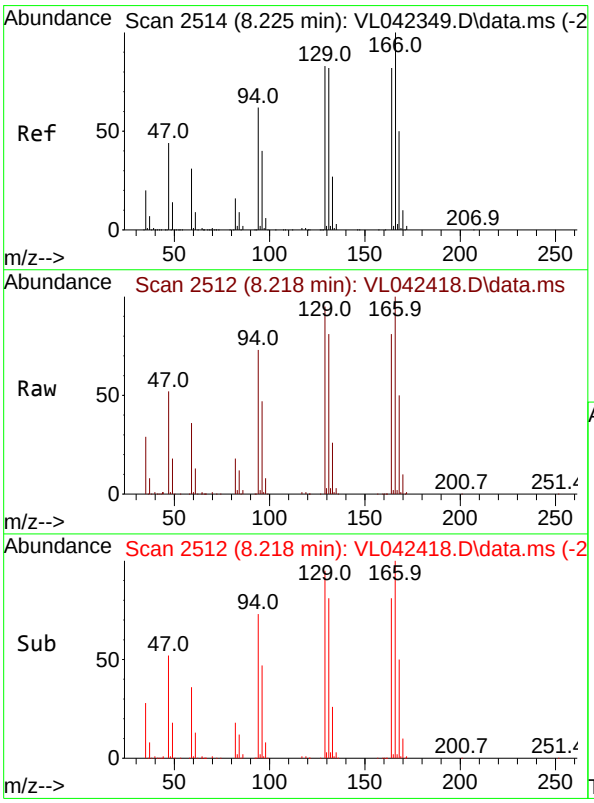

#51
2-Hexanone
Concen: 7.060 ppbv
RT: 7.428 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

Tgt Ion: 43 Resp: 280580

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 46.8 | 40.2 | 60.4 |
| 98 | 0.2 | 0.1 | 0.1# |

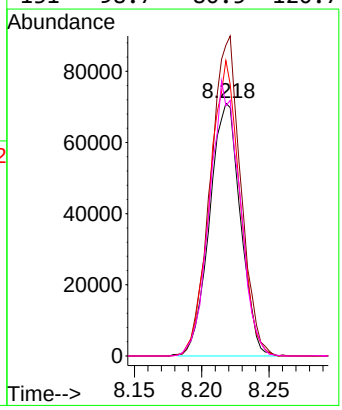


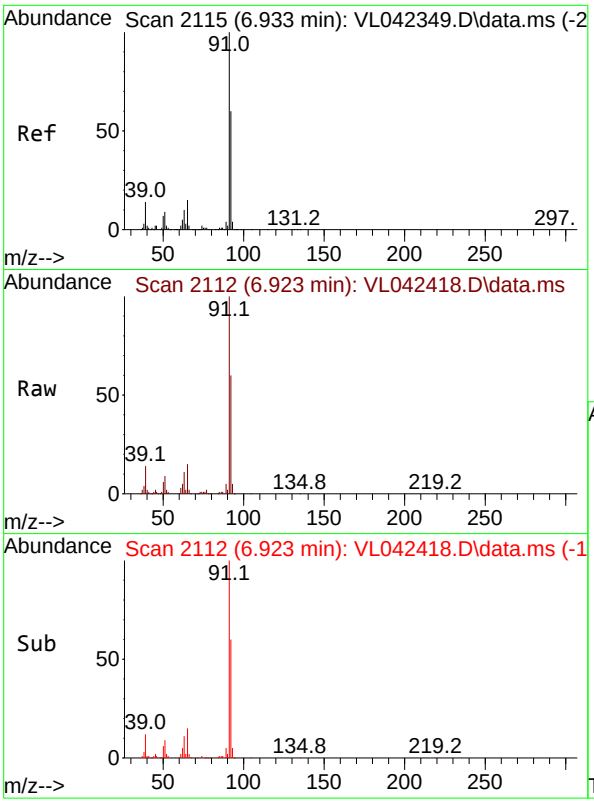




#52
Tetrachloroethene
Concen: 8.058 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. -0.007 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion:164 Resp: 113273

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 122.8 | 98.2 | 147.2 |
| 129 | 116.9 | 81.8 | 122.8 |
| 131 | 98.7 | 80.5 | 120.7 |



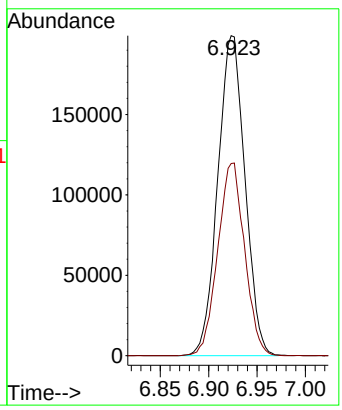


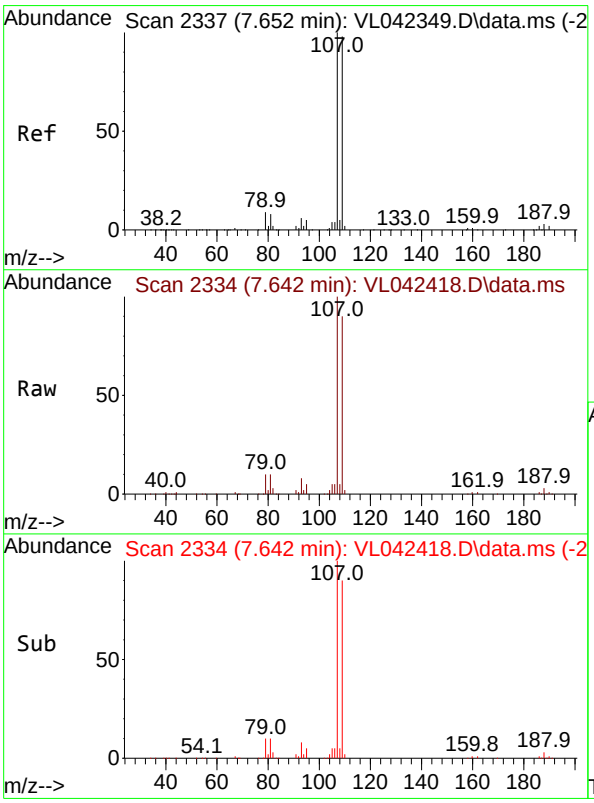

#53
Toluene
Concen: 8.904 ppbv
RT: 6.923 min Scan# 21
Delta R.T. -0.010 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

Tgt Ion: 91 Resp: 388626

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 59.6 | 48.2 | 72.4 |

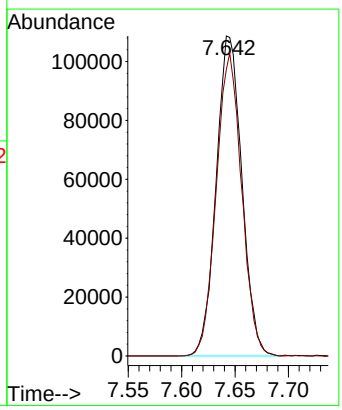


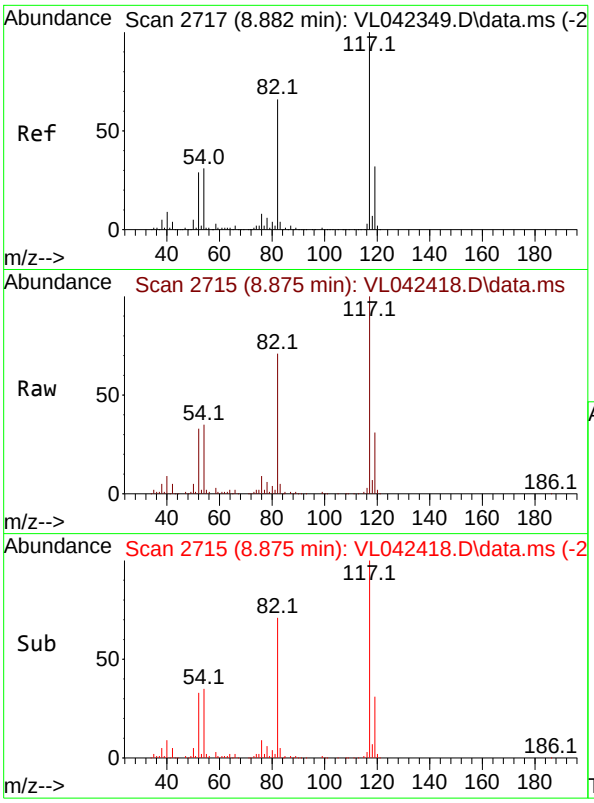




#54
1,2-Dibromoethane
Concen: 9.191 ppbv
RT: 7.642 min Scan# 2334
Delta R.T. -0.010 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion:107 Resp: 181632

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 89.6 | 78.2 | 117.4 |



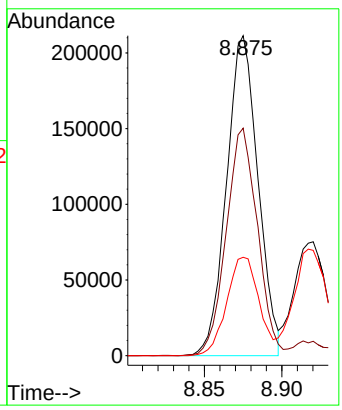


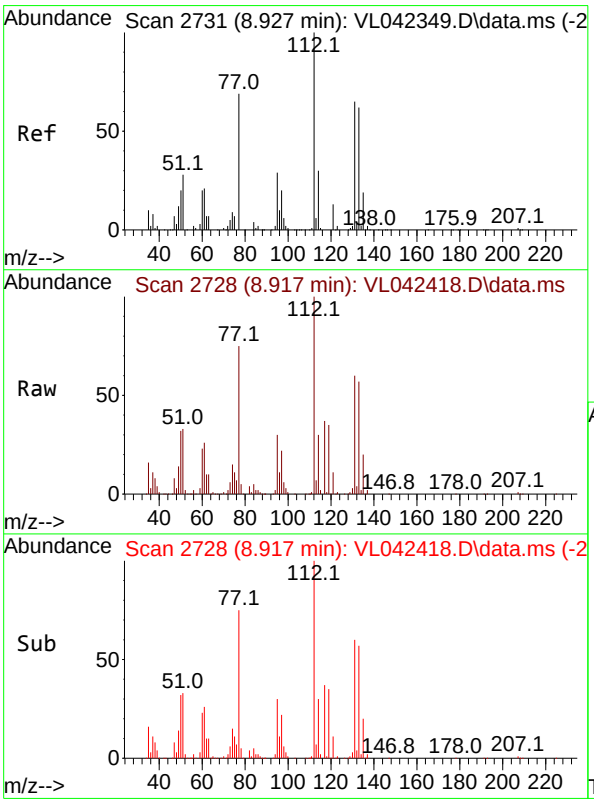

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

Tgt Ion:117 Resp: 299130

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 75.2 | 57.8 | 86.6 |
| 119 | 33.3 | 25.2 | 37.8 |

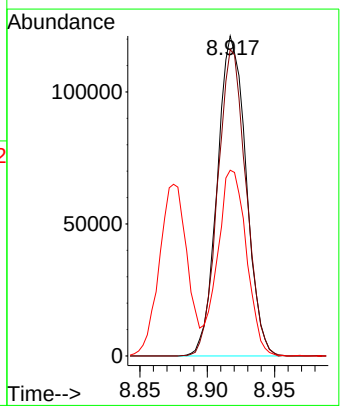


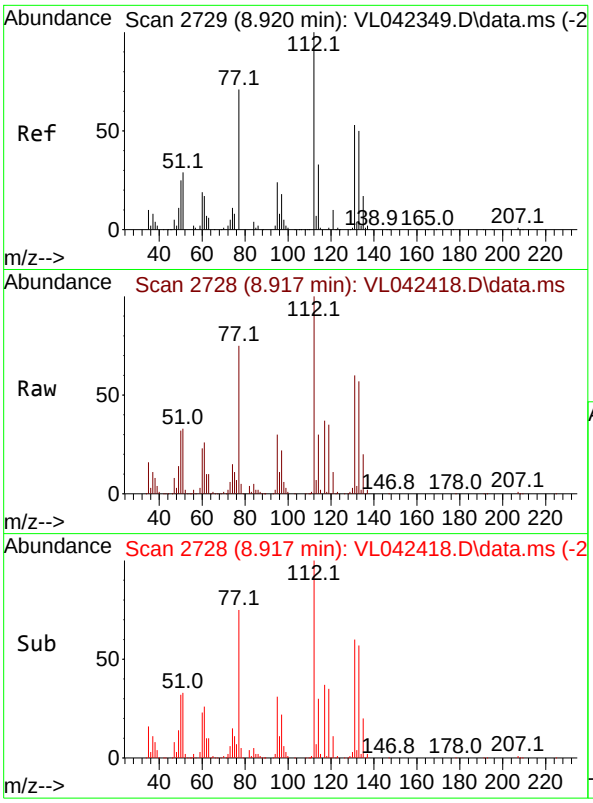




#56
1,1,1,2-Tetrachloroethane
Concen: 9.949 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. -0.010 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion:131 Resp: 180122

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.3 | 78.3 | 117.5 |
| 119 | 57.4 | 48.7 | 73.1 |



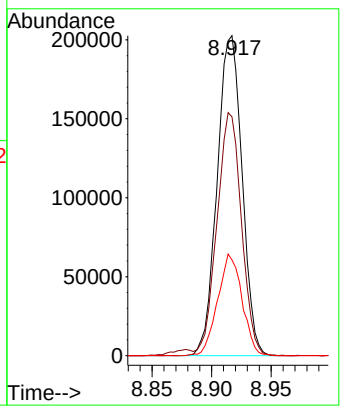


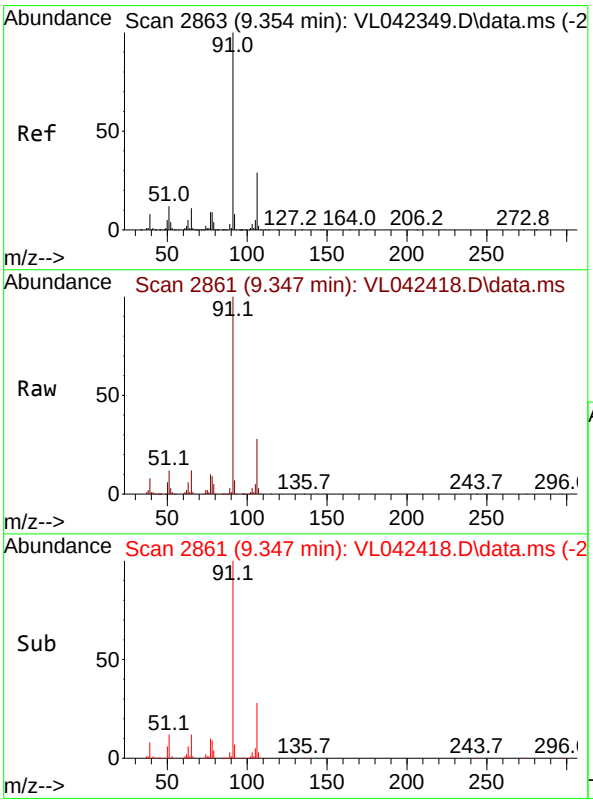

#57
Chlorobenzene
Concen: 9.480 ppbv
RT: 8.917 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

Tgt Ion:112 Resp: 294922

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 74.6 | 57.8 | 86.6 |
| 114 | 29.9 | 29.3 | 35.9 |

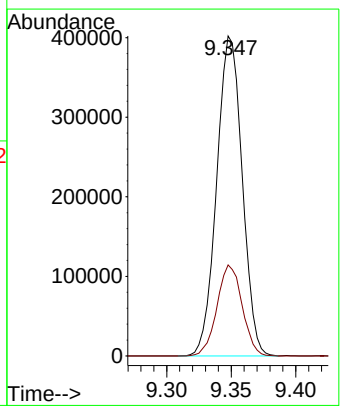


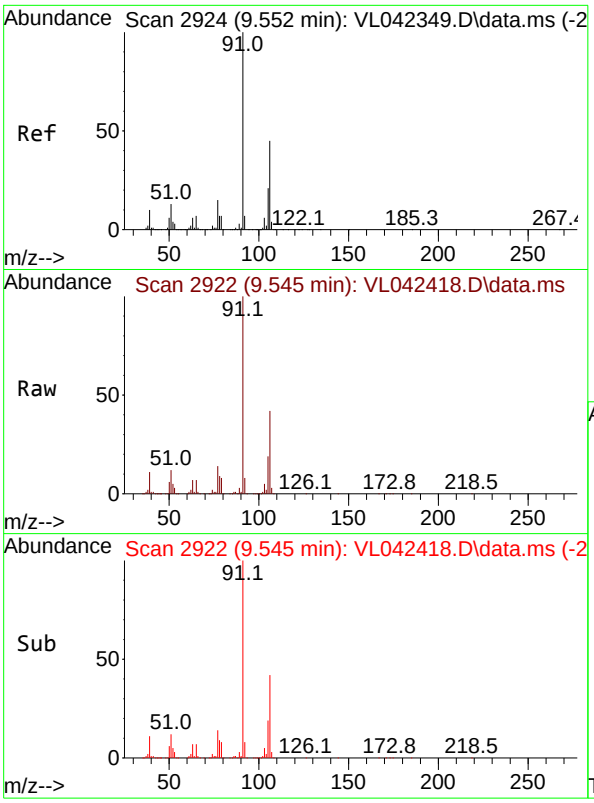




#58
Ethyl Benzene
Concen: 9.321 ppbv
RT: 9.347 min Scan# 2861
Delta R.T. -0.007 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 91 Resp: 552423

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 28.5 | 23.0 | 34.4 |



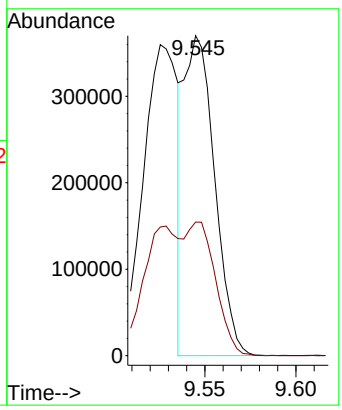


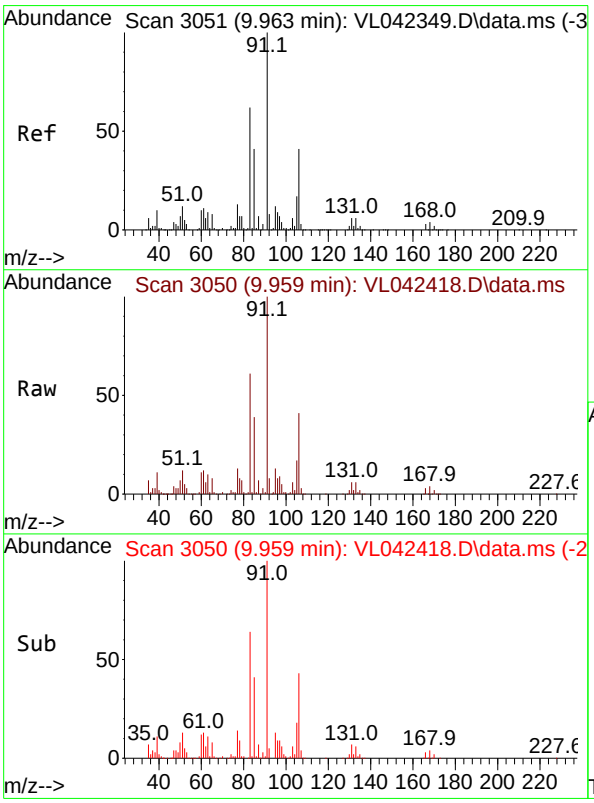

#59
m/p-Xylene
Concen: 9.091 ppbv
RT: 9.545 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

Tgt Ion: 91 Resp: 434048

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 89.1 | 35.4 | 53.2# |

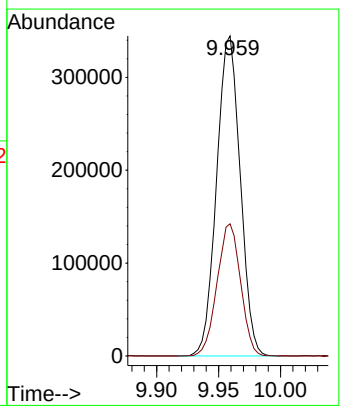


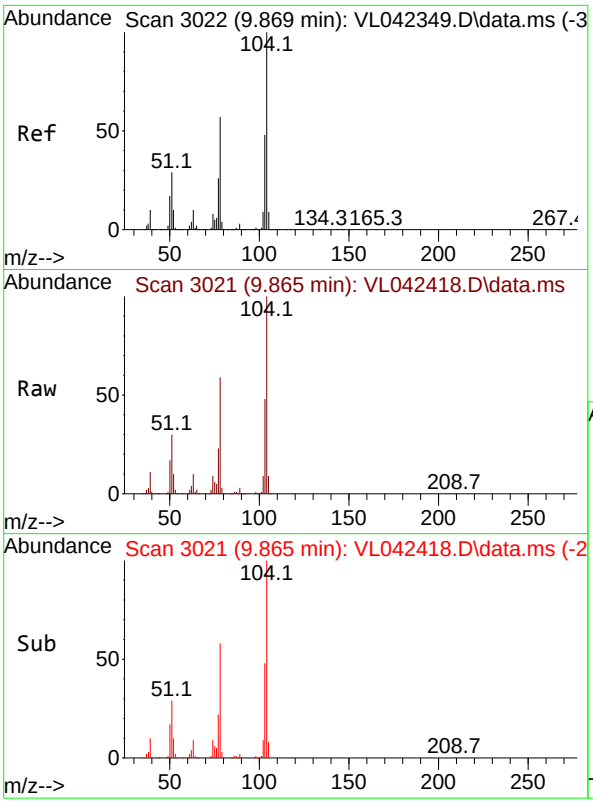




#60
o-Xylene
Concen: 9.515 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 91 Resp: 457491

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 41.1 | 21.1 | 63.4 |



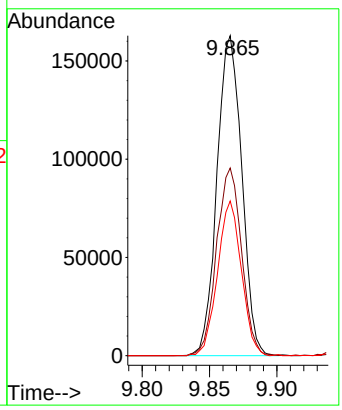


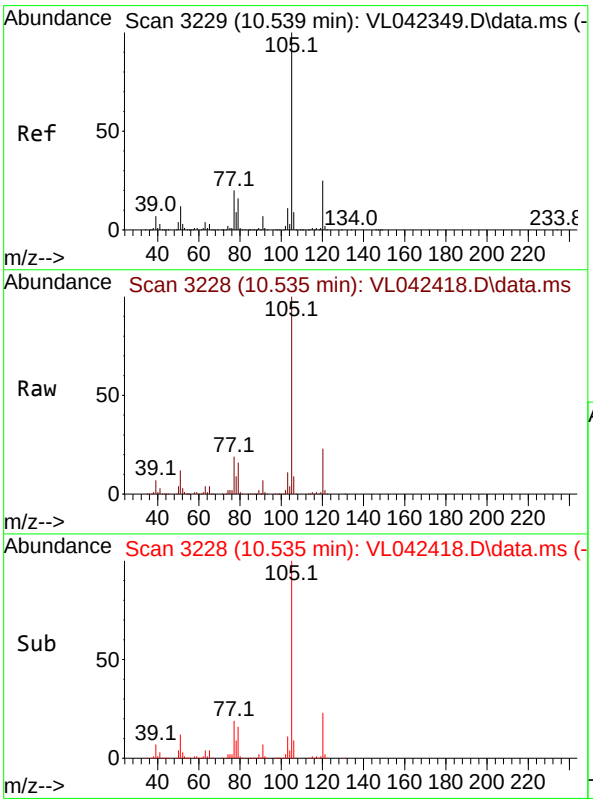

#61
Styrene
Concen: 9.086 ppbv
RT: 9.865 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

Tgt Ion:104 Resp: 208517

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 59.1 | 44.6 | 66.8 |
| 103 | 46.5 | 37.4 | 56.0 |

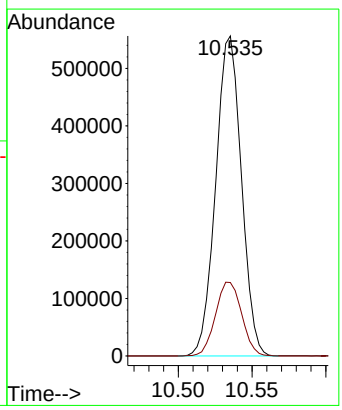


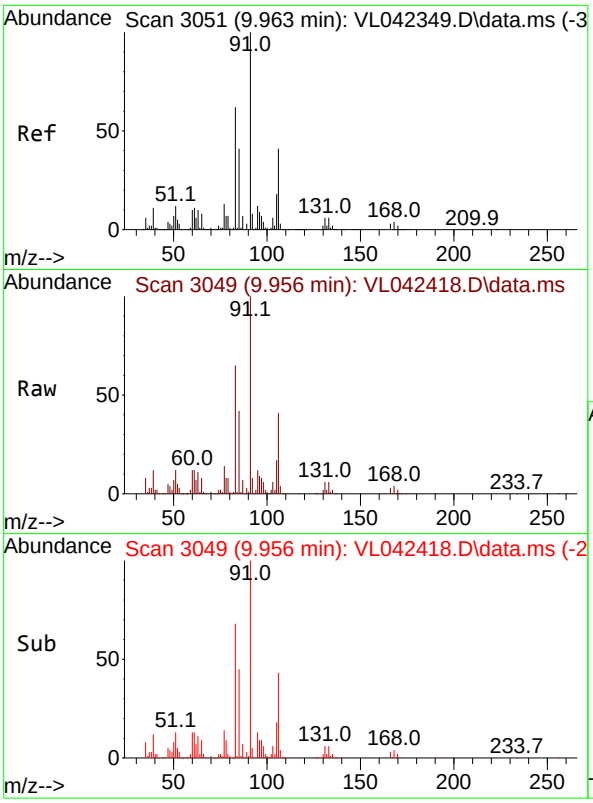




#62
Isopropylbenzene
Concen: 9.546 ppbv
RT: 10.535 min Scan# 3228
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion:105 Resp: 673842

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 23.5 | 19.8 | 29.8 |



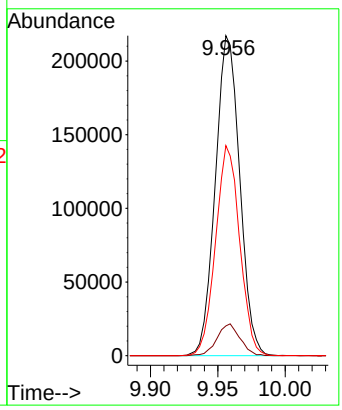


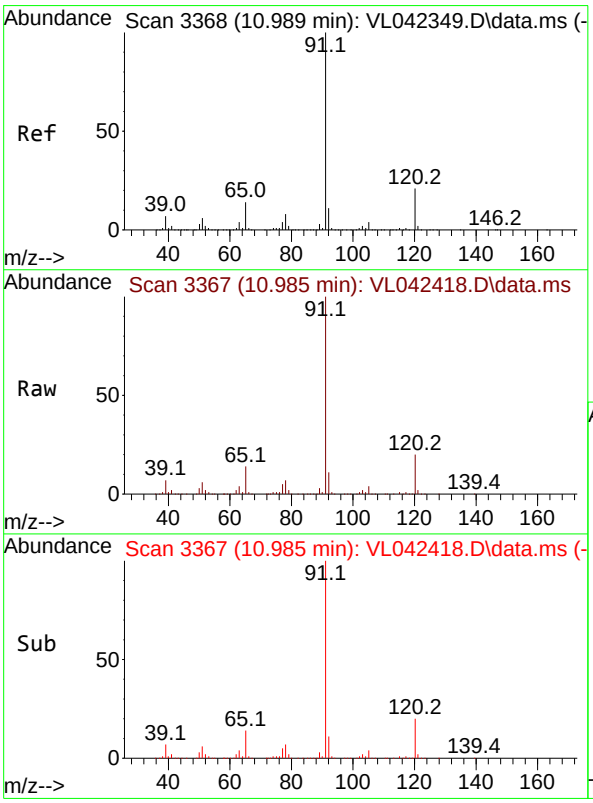

#63
1,1,2,2-Tetrachloroethane
Concen: 8.783 ppbv
RT: 9.956 min Scan# 3
Delta R.T. -0.007 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

Tgt Ion: 83 Resp: 273641

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.4 | 4.5 | 13.7 |
| 85 | 64.8 | 32.4 | 97.0 |

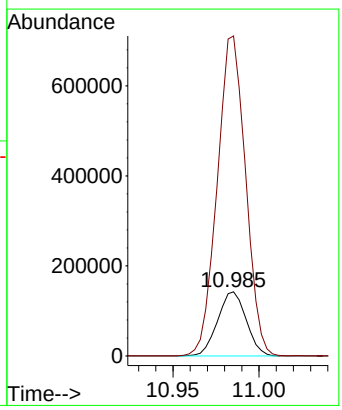


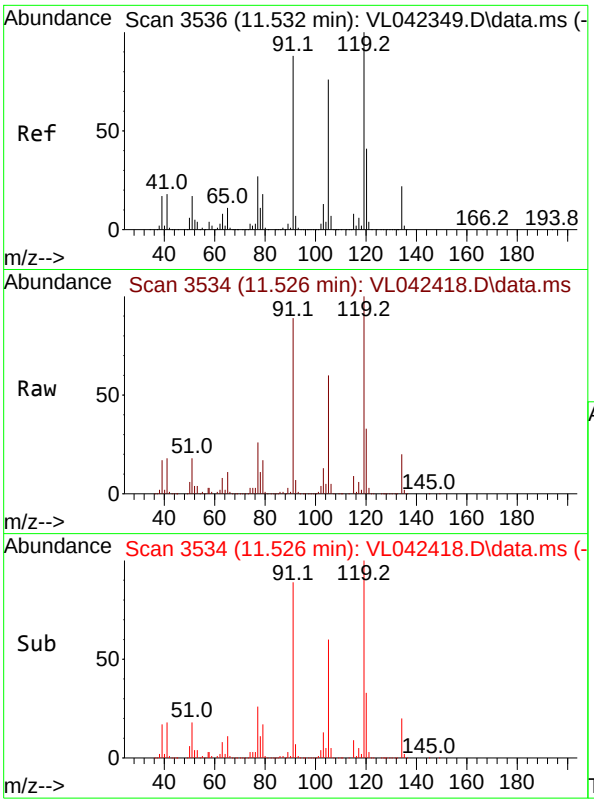




#64
n-propylbenzene
Concen: 9.271 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion:120 Resp: 164482

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 497.0 | 392.4 | 588.6 |



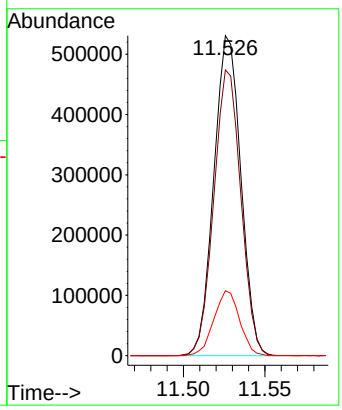


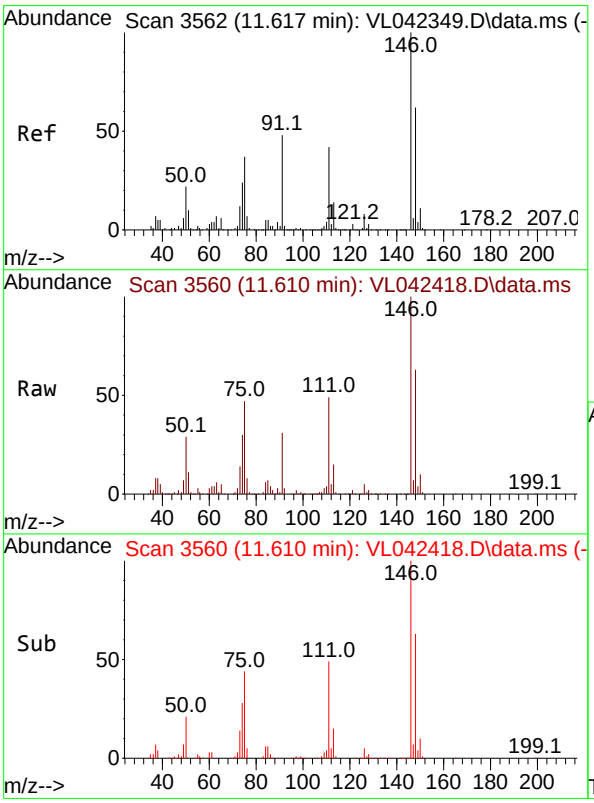

#65
tert-Butylbenzene
Concen: 9.441 ppbv
RT: 11.526 min Scan# 3
Delta R.T. -0.007 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

Tgt Ion:119 Resp: 612519

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 89.2 | 74.6 | 111.8 |
| 134 | 19.3 | 18.8 | 28.2 |

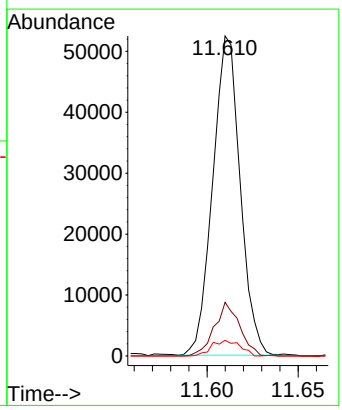


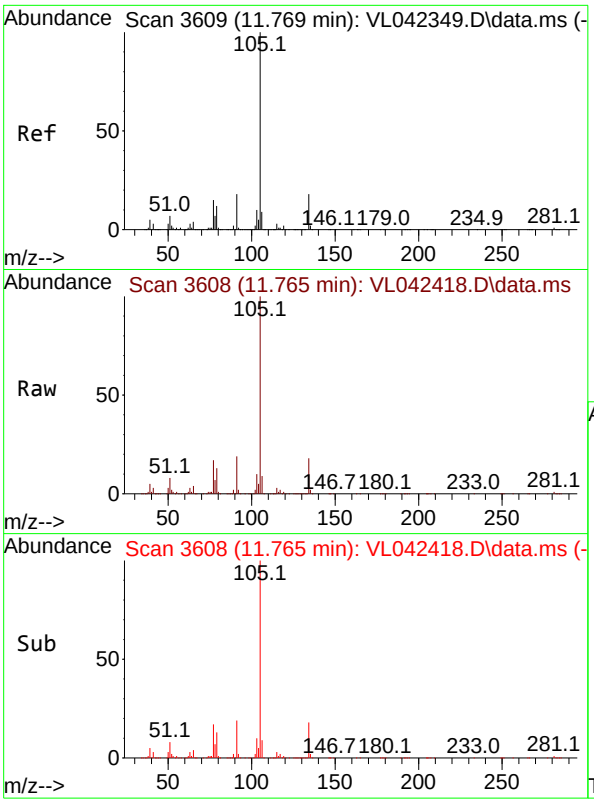




#66
Benzyl Chloride
Concen: 7.684 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.007 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 91 Resp: 54781

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 15.5 | 11.8 | 17.6 |
| 128 | 5.1 | 4.5 | 6.7 |



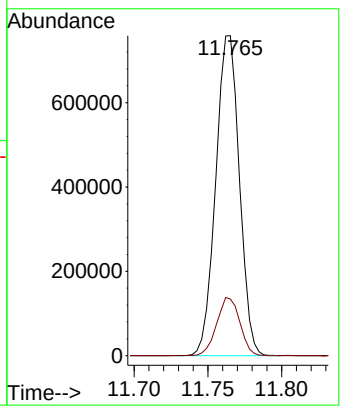


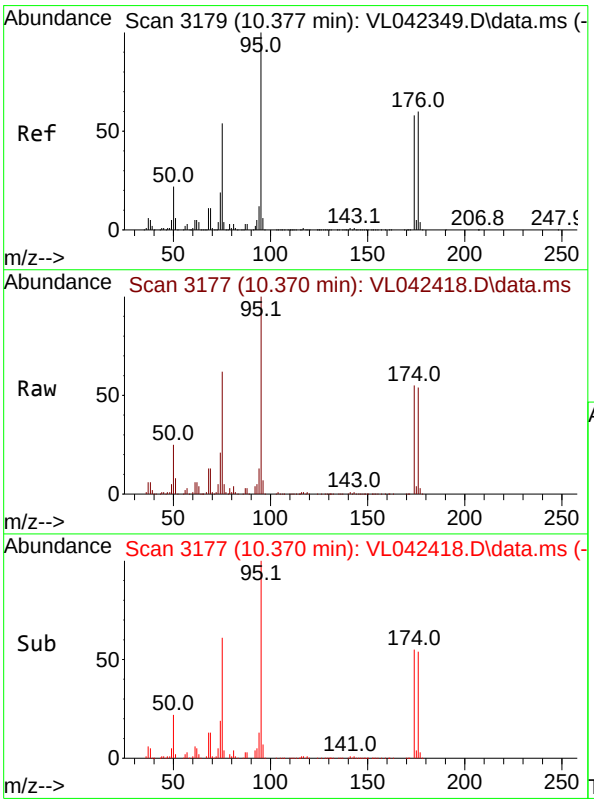

#67
sec-Butylbenzene
Concen: 9.380 ppbv
RT: 11.765 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

Tgt Ion:105 Resp: 846457

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 17.8 | 14.6 | 21.8 |

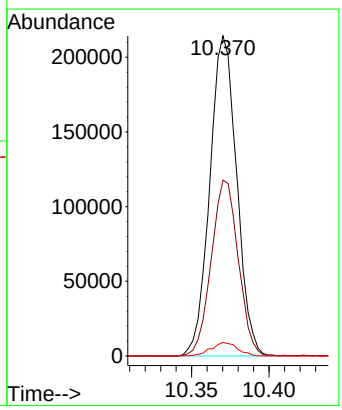


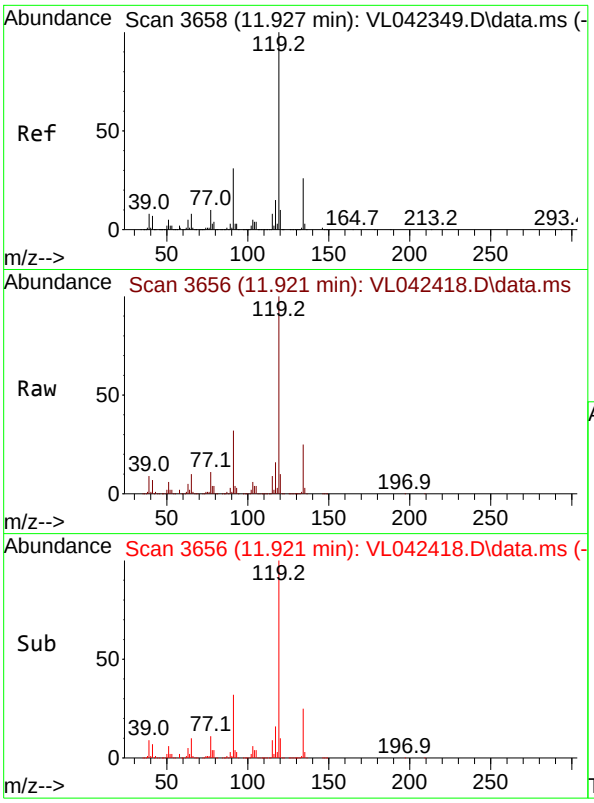




#68
1-Bromo-4-Fluorobenzene
Concen: 10.521 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. -0.007 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 95 Resp: 258626

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 55.3 | 48.5 | 72.7 |
| 175 | 4.1 | 3.7 | 5.5 |



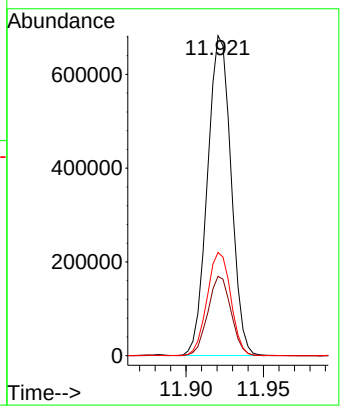


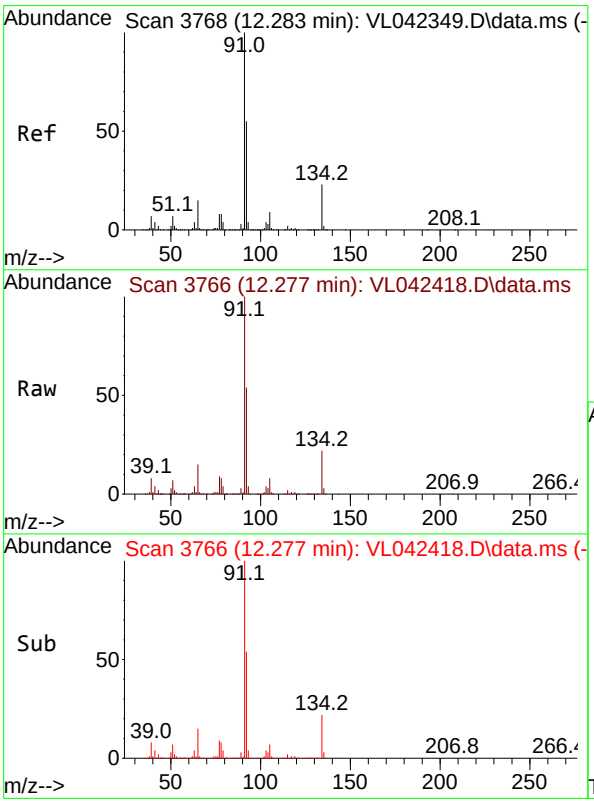

#69
p-Isopropyltoluene
Concen: 9.221 ppbv
RT: 11.921 min Scan# 3
Delta R.T. -0.007 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

Tgt Ion:119 Resp: 722909

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 24.4 | 20.0 | 30.0 |
| 91 | 32.5 | 24.4 | 36.6 |

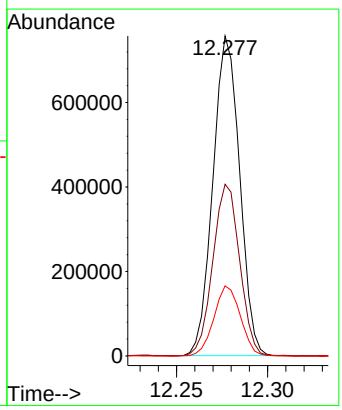


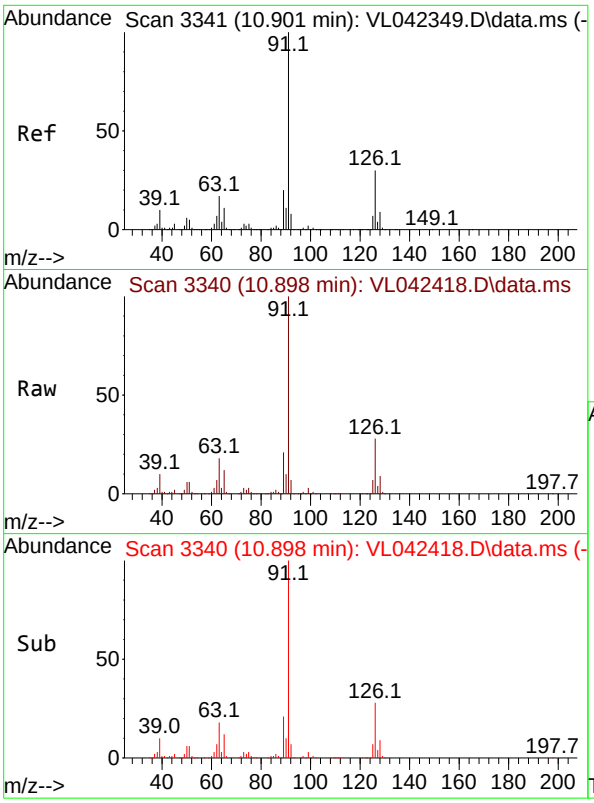




#70
n-Butylbenzene
Concen: 9.452 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. -0.007 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion: 91 Resp: 771835

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 54.2 | 44.2 | 66.4 |
| 134 | 21.8 | 18.2 | 27.4 |



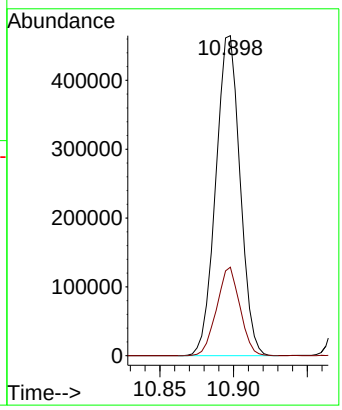


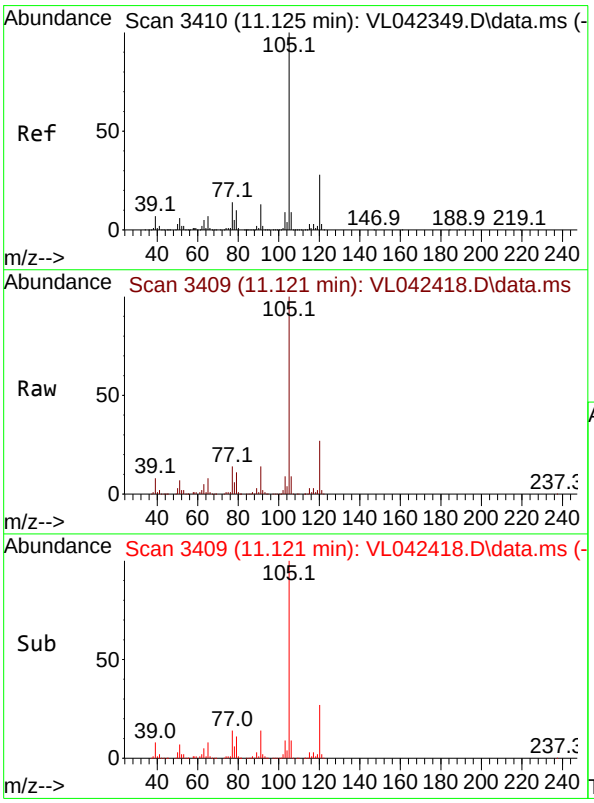

#71
2-Chlorotoluene
Concen: 9.623 ppbv
RT: 10.898 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

Tgt Ion: 91 Resp: 532755

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 26.5 | 11.4 | 45.4 |

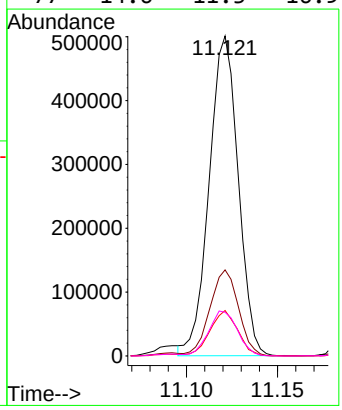


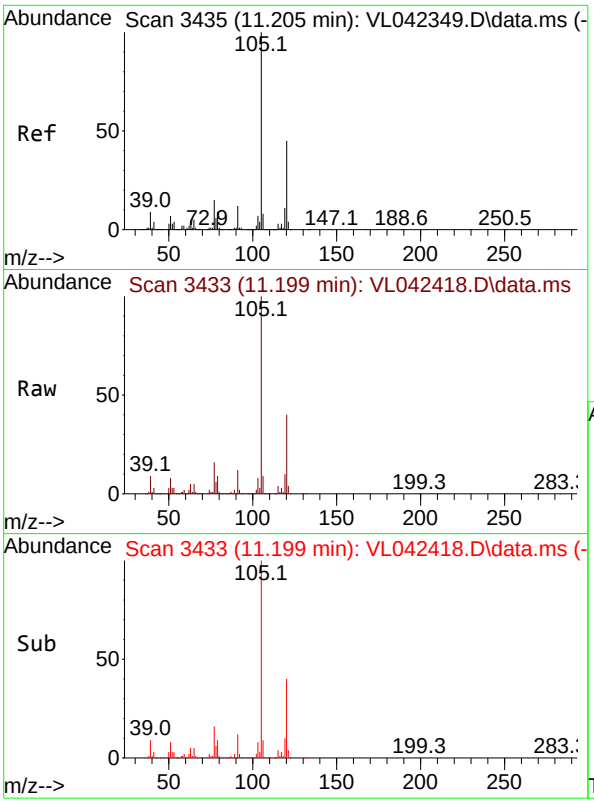




#72
4-Ethyltoluene
Concen: 9.438 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion:105 Resp: 554770

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 27.4 | 23.2 | 34.8 |
| 91 | 14.2 | 10.4 | 15.6 |
| 77 | 14.6 | 11.3 | 16.9 |



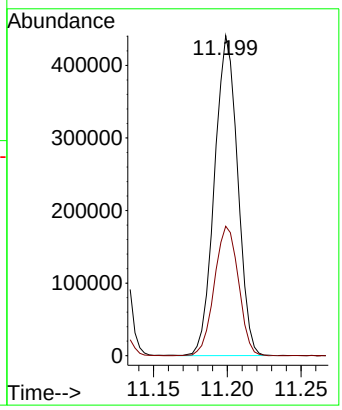


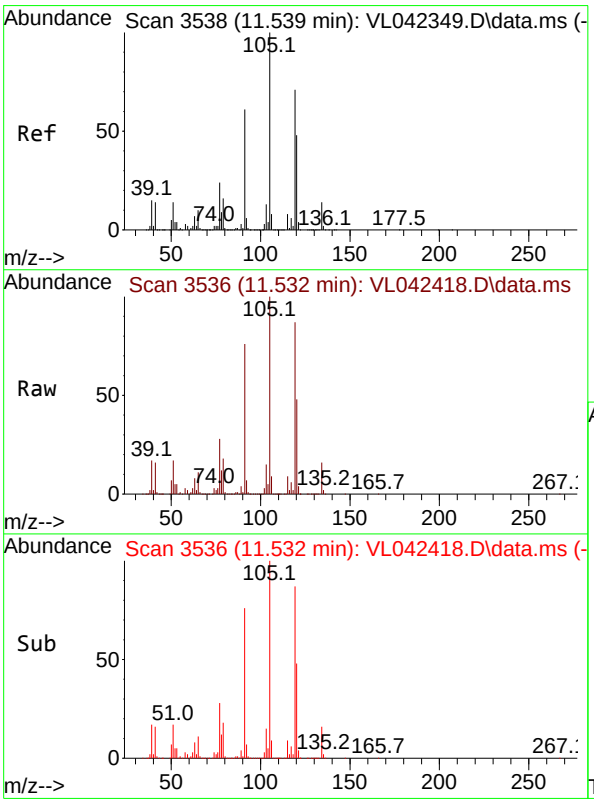

#73
1,3,5-Trimethylbenzene
Concen: 9.283 ppbv
RT: 11.199 min Scan# 3
Delta R.T. -0.007 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

Tgt Ion:105 Resp: 481697

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 40.5 | 35.6 | 53.4 |

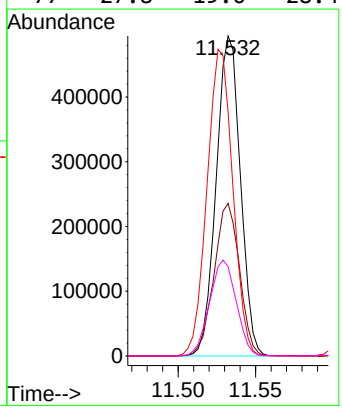


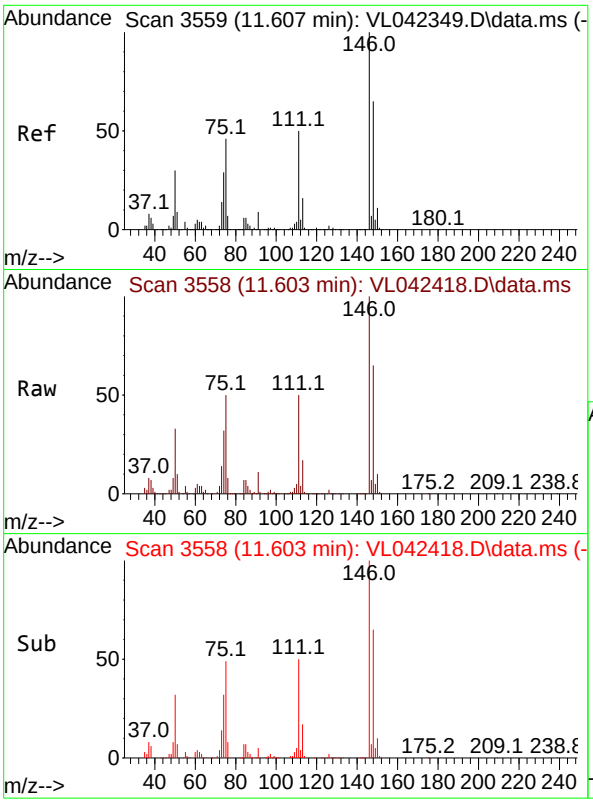




#74
1,2,4-Trimethylbenzene
Concen: 8.869 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.007 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion:105 Resp: 537510

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.6 | 38.1 | 57.1 |
| 91 | 76.2 | 48.8 | 73.2# |
| 77 | 27.8 | 19.0 | 28.4 |



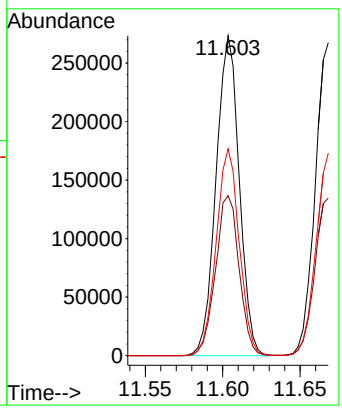


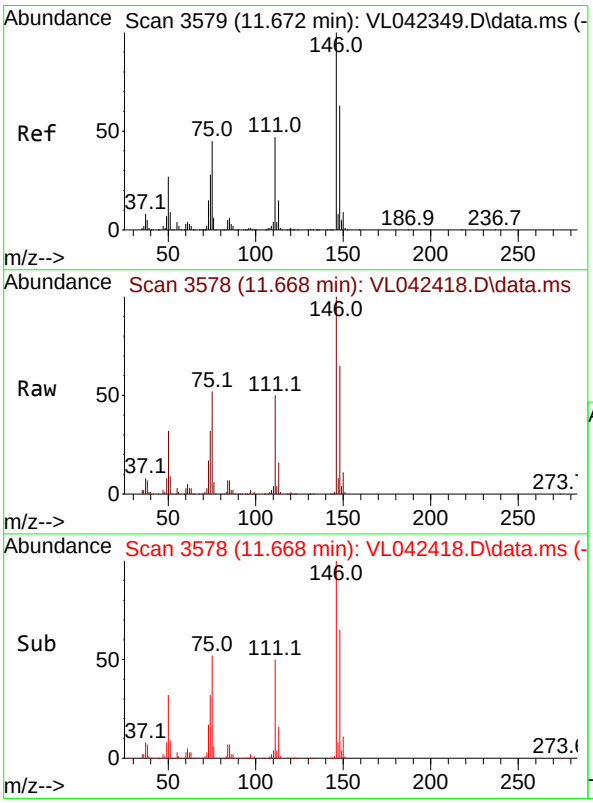

#75
1,3-Dichlorobenzene
Concen: 9.035 ppbv
RT: 11.603 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

Tgt Ion:146 Resp: 284652

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 50.9 | 24.3 | 72.8 |
| 148 | 64.3 | 31.6 | 94.8 |

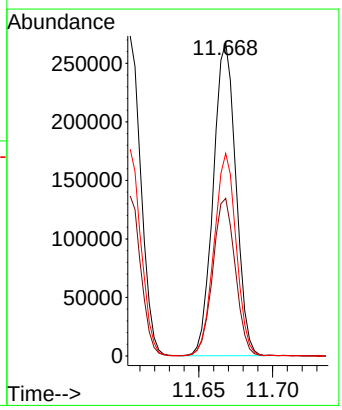


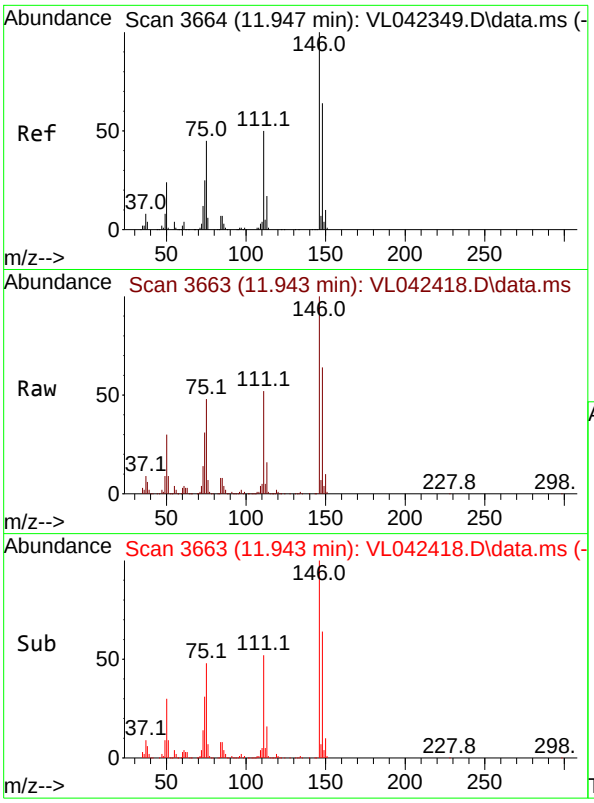




#76
1,4-Dichlorobenzene
Concen: 8.992 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion:146 Resp: 284740

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 50.4 | 24.2 | 72.6 |
| 148 | 63.7 | 32.1 | 96.5 |



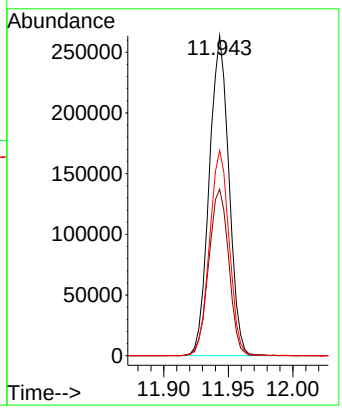


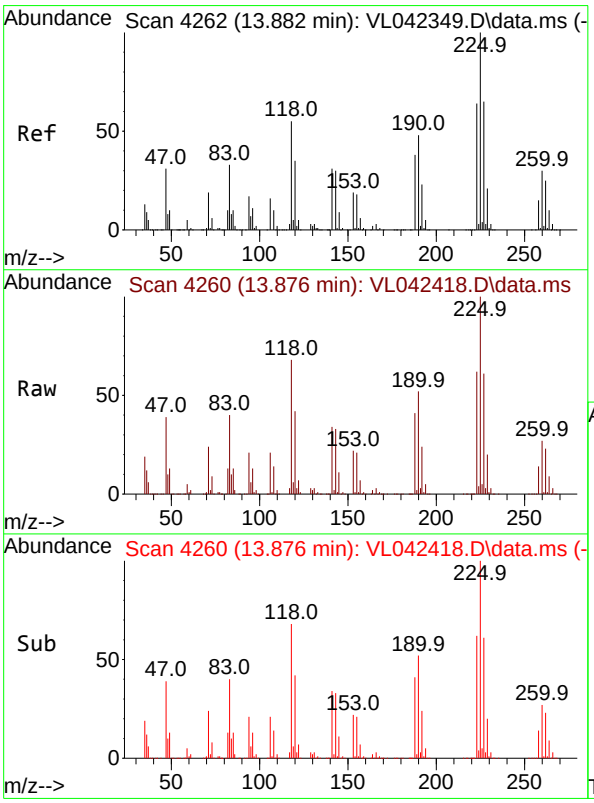

#77
1,2-Dichlorobenzene
Concen: 9.095 ppbv
RT: 11.943 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

Tgt Ion:146 Resp: 278619

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 53.0 | 25.3 | 75.9 |
| 148 | 64.0 | 31.5 | 94.5 |

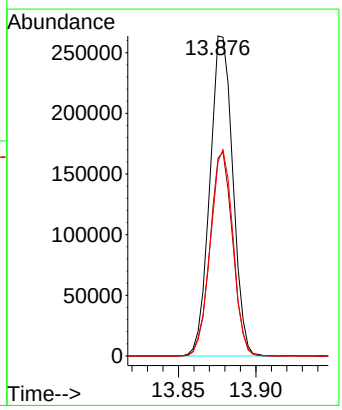


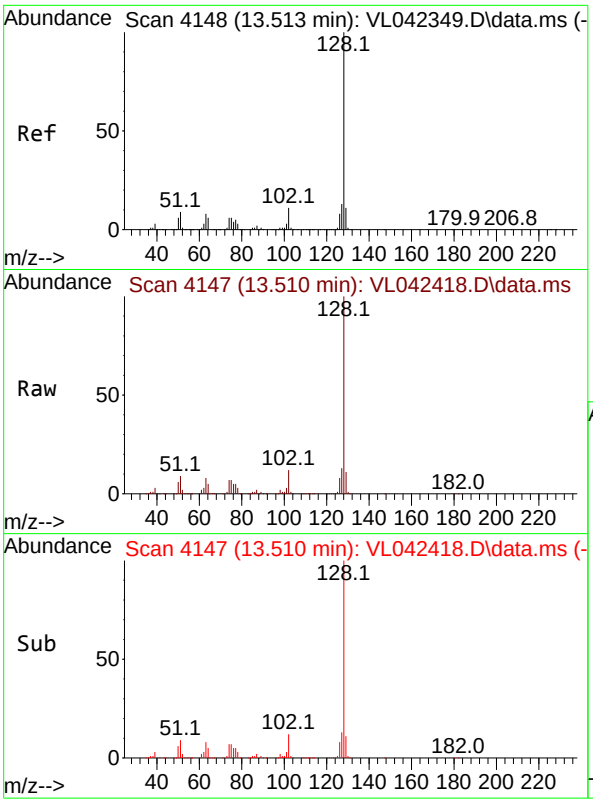




#78
Hexachloro-1,3-Butadiene
Concen: 8.779 ppbv
RT: 13.876 min Scan# 4260
Delta R.T. -0.007 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion:225 Resp: 271569

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.8 | 50.3 | 75.5 |
| 227 | 63.3 | 51.5 | 77.3 |



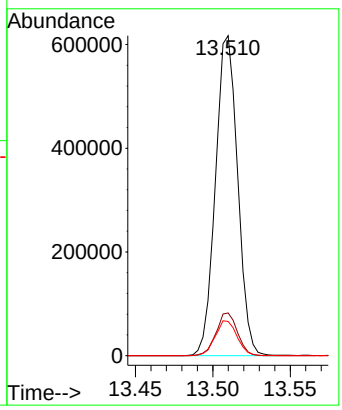


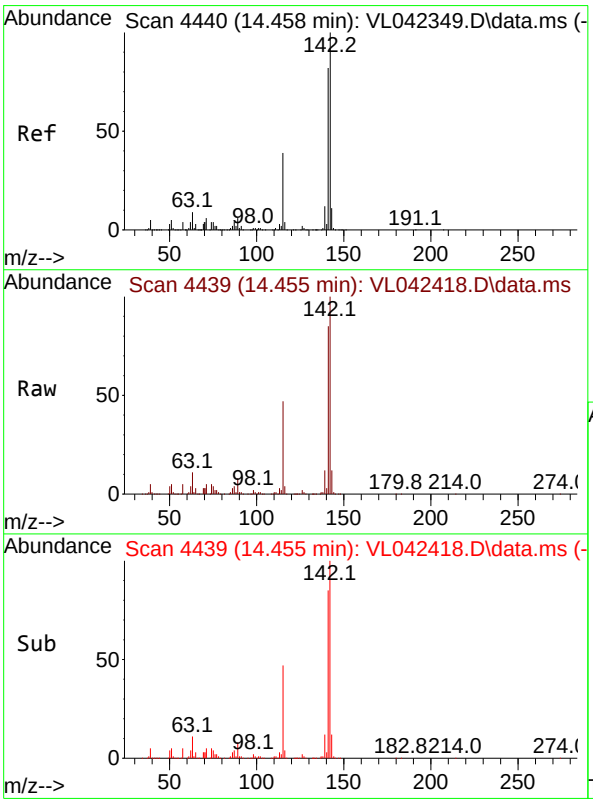

#79
Naphthalene
Concen: 8.482 ppbv
RT: 13.510 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

Tgt Ion:128 Resp: 614768

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.4 | 10.6 | 15.8 |
| 129 | 10.7 | 8.6 | 12.8 |

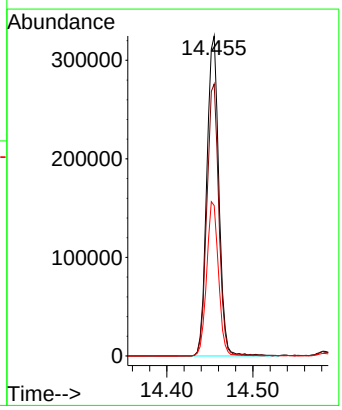


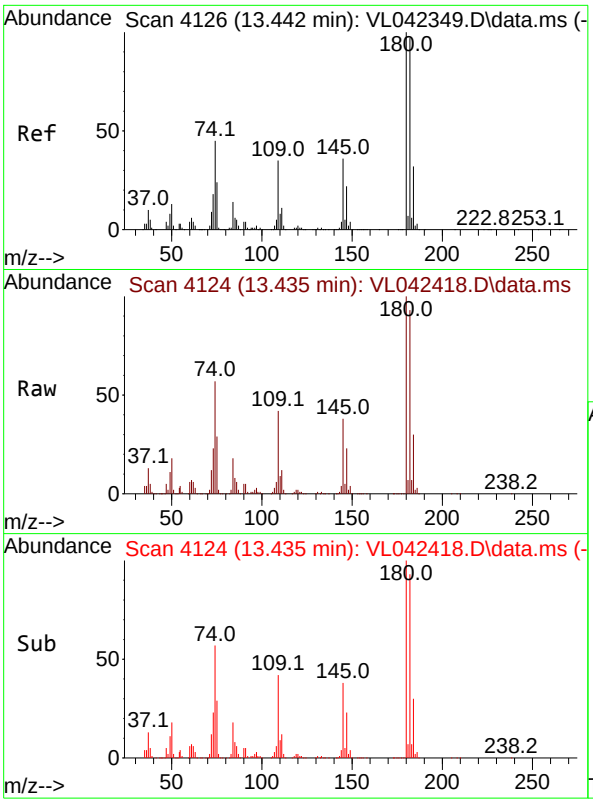




#80
Naphthalene,2-methyl-
Concen: 7.651 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. -0.003 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

Tgt Ion:142 Resp: 316027

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 84.7 | 66.8 | 100.2 |
| 115 | 47.3 | 33.4 | 50.2 |



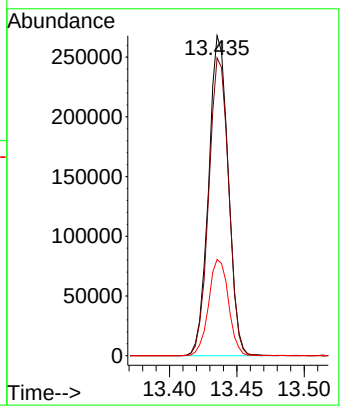



#81
1,2,4-Trichlorobenzene
Concen: 8.729 ppbv
RT: 13.435 min Scan# 4
Delta R.T. -0.007 min
Lab File: VL042418.D
Acq: 28 Apr 2025 10:10

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0428ABS01

Tgt Ion:180 Resp: 271657

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.2 | 76.8 | 115.2 |
| 184 | 30.4 | 24.6 | 36.8 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042419.D
Acq On : 28 Apr 2025 10:59
Operator : SY/MD
Sample : Q1665-05
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-3-3242025

Quant Time: Apr 29 01:33:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) Bromochloromethane | 2.784 | 49 | 141298 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.952 | 114 | 401917 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.875 | 117 | 351139 | 10.000 | ppbv | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.370 | 95 | 302429 | 10.481 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 104.800% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.495 | 85 | 11370 | 0.455 | ppbv | | 96 |
| 3) Chlorodifluoromethane | 1.842 | 51 | 6601 | 0.278 | ppbv | | 98 |
| 4) Chloromethane | 1.531 | 50 | 4722 | 0.478 | ppbv | # | 79 |
| 7) Chloroethane | 1.489 | 64 | 154 | 0.040 | ppbv | # | 44 |
| 9) Propene | 1.557 | 41 | 266169 | 24.586 | ppbv | | 98 |
| 10) Heptane | 4.965 | 43 | 9317 | 0.306 | ppbv | # | 63 |
| 11) Trichlorofluoromethane | 1.874 | 101 | 5024 | 0.212 | ppbv | | 97 |
| 12) 1,1,2-Trichlorotrifluo... | 2.136 | 101 | 1181 | 0.061 | ppbv | # | 76 |
| 13) Ethanol | 1.719 | 45 | 460303 | 267.501 | ppbv | | 76 |
| 15) Acetone | 1.832 | 43 | 493322 | 21.327 | ppbv | # | 81 |
| 16) 1,3-Butadiene | 1.599 | 39 | 5437 | 0.491 | ppbv | # | 50 |
| 17) tert-Butyl alcohol | 2.039 | 59 | 88272 | 3.079 | ppbv | | 99 |
| 19) Isopropyl Alcohol | 1.884 | 45 | 414153 | 32.231 | ppbv | # | 66 |
| 20) Methylene Chloride | 2.059 | 84 | 10525 | 1.162 | ppbv | | 85 |
| 21) Allyl Chloride | 2.039 | 41 | 19969 | 1.250 | ppbv | # | 72 |
| 23) Vinyl Acetate | 2.463 | 43 | 40479 | 4.323 | ppbv | # | 73 |
| 25) Ethyl Acetate | 2.826 | 43 | 51192 | 0.898 | ppbv | # | 81 |
| 26) Hexane | 2.819 | 57 | 52451 | 2.273 | ppbv | # | 43 |
| 27) Carbon Disulfide | 2.149 | 76 | 1231 | 0.050 | ppbv | # | 1 |
| 28) Methyl tert-Butyl Ether | 2.441 | 73 | 580 | 0.038 | ppbv | # | 48 |
| 29) Chloroform | 2.842 | 83 | 1773 | 0.054 | ppbv | | 88 |
| 30) Cyclohexane | 3.849 | 84 | 3366 | 0.180 | ppbv | # | 39 |
| 34) 2-Butanone | 2.557 | 43 | 27638 | 0.869 | ppbv | | 99 |
| 35) Carbon Tetrachloride | 3.755 | 117 | 1663 | 0.046 | ppbv | # | 74 |
| 36) Benzene | 3.648 | 78 | 21233 | 0.490 | ppbv | | 98 |
| 37) 1,2-Dichloroethane | 3.211 | 62 | 11865 | 0.456 | ppbv | | 100 |
| 39) 1,2-Dichloropropane | 3.952 | 63 | 110449 | 6.837 | ppbv | # | 22 |
| 41) Tetrahydrofuran | 3.056 | 42 | 927 | 0.050 | ppbv | # | 35 |
| 44) 2,2,4-Trimethylpentane | 4.635 | 57 | 26094 | 0.349 | ppbv | # | 42 |
| 51) 2-Hexanone | 7.419 | 43 | 2761 | 0.058 | ppbv | # | 27 |
| 52) Tetrachloroethene | 8.211 | 164 | 664 | 0.040 | ppbv | # | 41 |
| 53) Toluene | 6.923 | 91 | 241564 | 4.644 | ppbv | | 99 |
| 58) Ethyl Benzene | 9.348 | 91 | 39060 | 0.561 | ppbv | | 95 |
| 59) m/p-Xylene | 9.526 | 91 | 78855 | 1.407 | ppbv | | 100 |
| 60) o-Xylene | 9.959 | 91 | 32637 | 0.578 | ppbv | | 97 |
| 61) Styrene | 9.869 | 104 | 12396 | 0.460 | ppbv | | 94 |
| 62) Isopropylbenzene | 10.529 | 105 | 3245 | 0.039 | ppbv | # | 50 |
| 64) n-propylbenzene | 10.985 | 120 | 2557 | 0.123 | ppbv | | 89 |
| 65) tert-Butylbenzene | 11.532 | 119 | 4429 | 0.058 | ppbv | # | 58 |
| 67) sec-Butylbenzene | 11.769 | 105 | 9075 | 0.086 | ppbv | # | 1 |
| 69) p-Isopropyltoluene | 11.924 | 119 | 6420 | 0.070 | ppbv | | 94 |
| 70) n-Butylbenzene | 12.277 | 91 | 3378 | 0.035 | ppbv | # | 83 |
| 72) 4-Ethyltoluene | 11.121 | 105 | 9307 | 0.135 | ppbv | # | 56 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042419.D
Acq On : 28 Apr 2025 10:59
Operator : SY/MD
Sample : Q1665-05
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-3-3242025

Quant Time: Apr 29 01:33:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

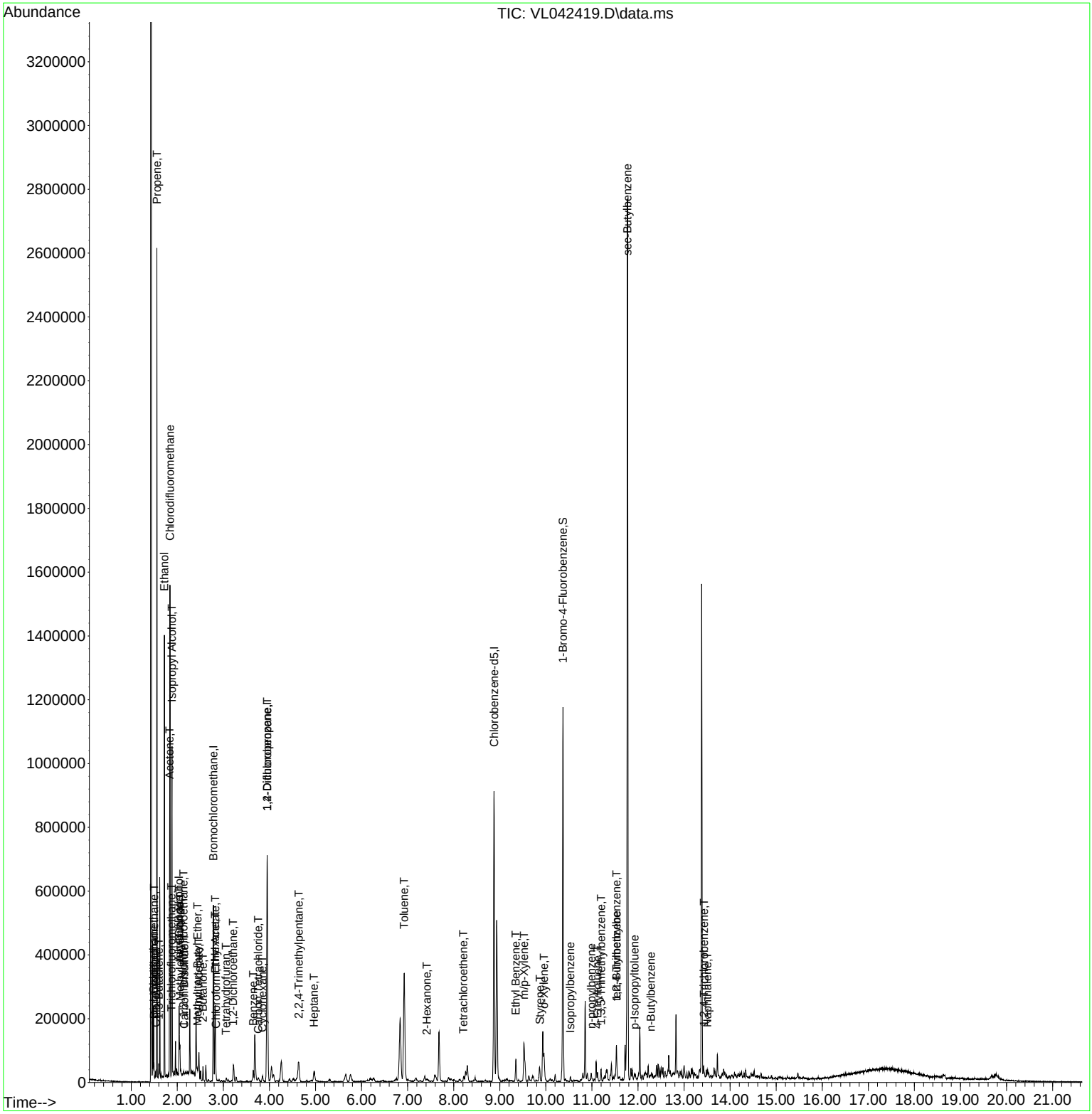
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 73) 1,3,5-Trimethylbenzene | 11.199 | 105 | 10799 | 0.177 | ppbv | | 90 |
| 74) 1,2,4-Trimethylbenzene | 11.532 | 105 | 33801 | 0.475 | ppbv | # | 61 |
| 79) Naphthalene | 13.507 | 128 | 9645 | 0.113 | ppbv | | 99 |
| 81) 1,2,4-Trichlorobenzene | 13.432 | 180 | 1680 | 0.046 | ppbv | # | 93 |

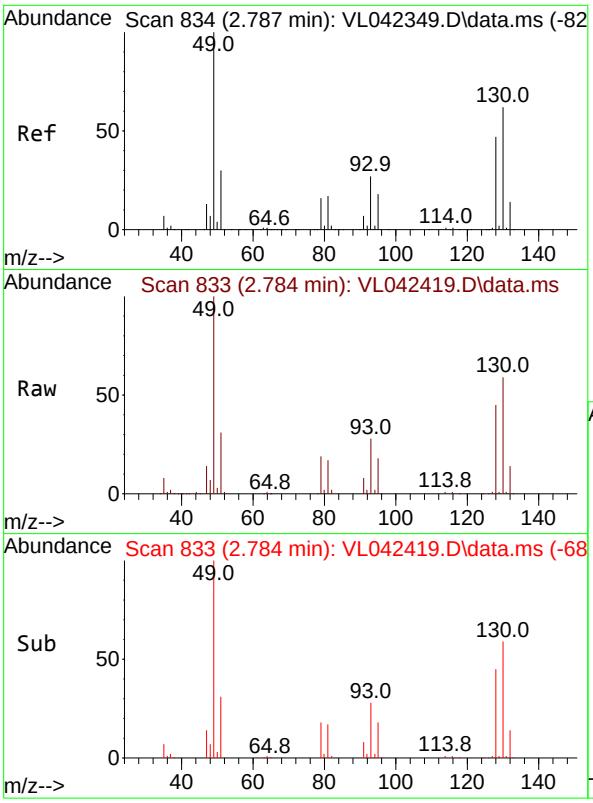
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042419.D
Acq On : 28 Apr 2025 10:59
Operator : SY/MD
Sample : Q1665-05
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-3-3242025

Quant Time: Apr 29 01:33:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration



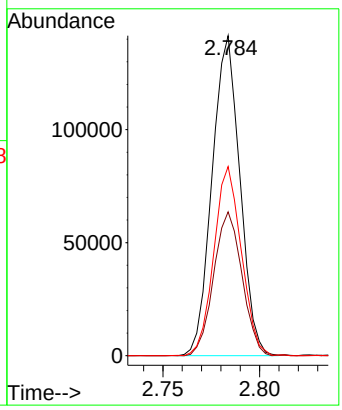


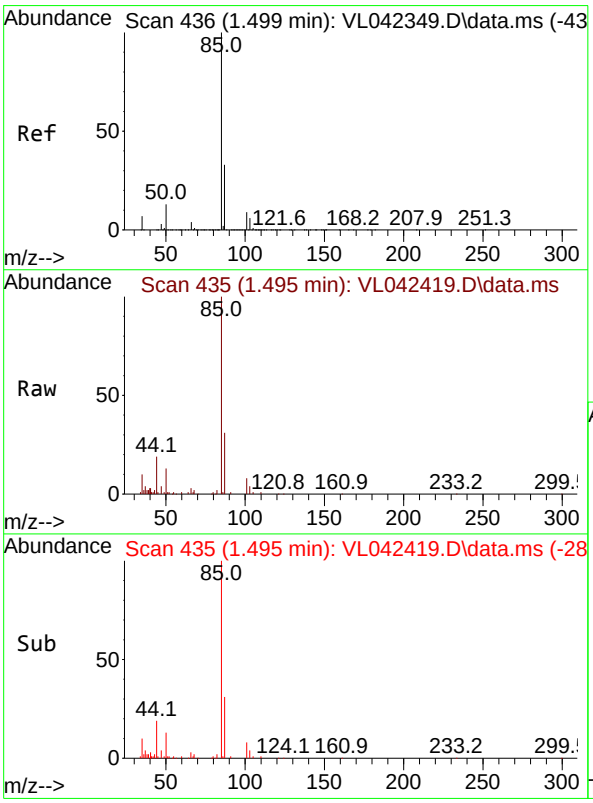

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-3-3242025

Tgt Ion: 49 Resp: 141298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 45.8 | 22.8 | 68.4 |
| 130 | 58.6 | 29.3 | 88.0 |

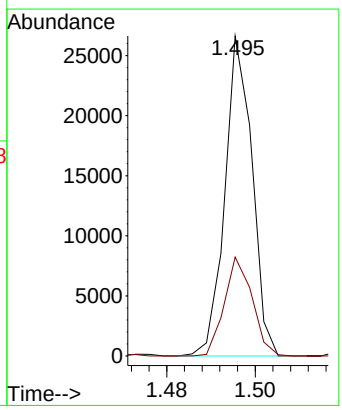


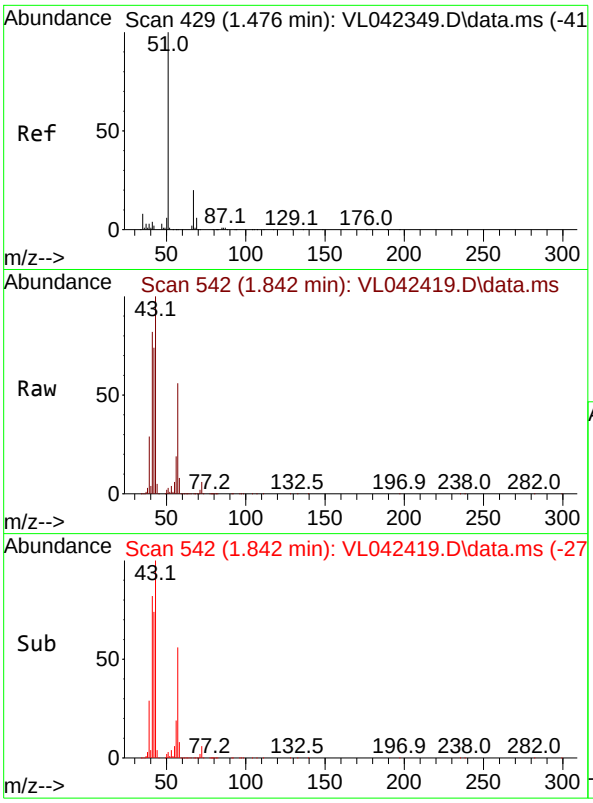




#2
Dichlorodifluoromethane
Concen: 0.455 ppbv
RT: 1.495 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 85 Resp: 11370

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 30.9 | 26.6 | 39.8 |



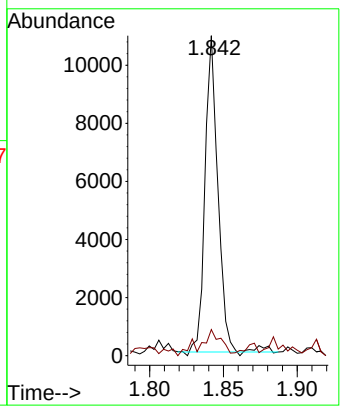


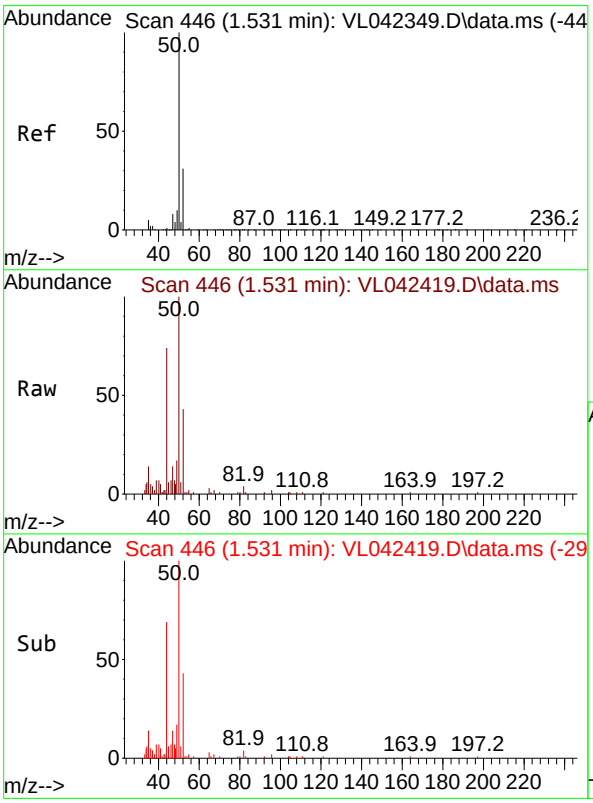

#3
Chlorodifluoromethane
Concen: 0.278 ppbv
RT: 1.842 min Scan# 54
Delta R.T. 0.366 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-3-3242025

Tgt Ion: 51 Resp: 6601

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 21.3 | 16.2 | 24.4 |

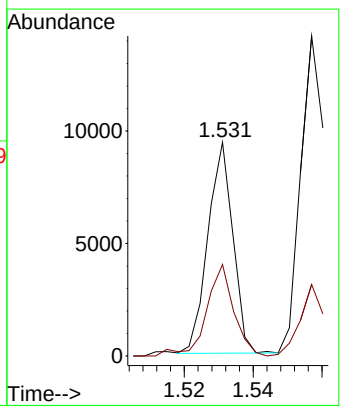


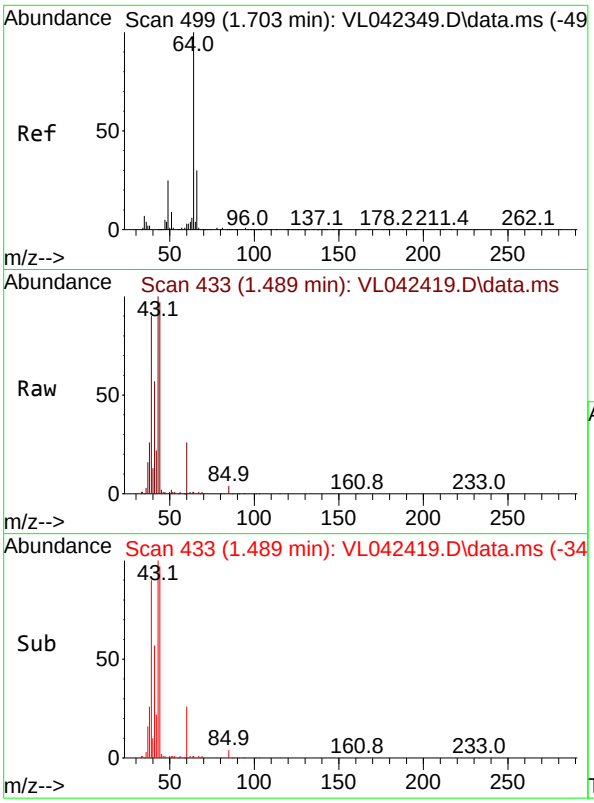




#4
Chloromethane
Concen: 0.478 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 50 Resp: 4722

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 42.6 | 24.7 | 37.1# |



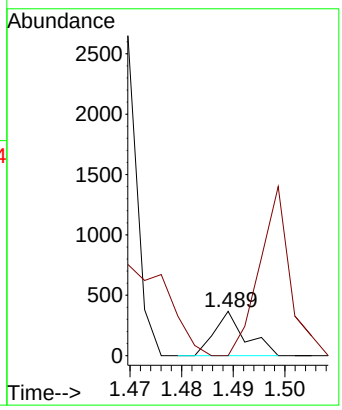


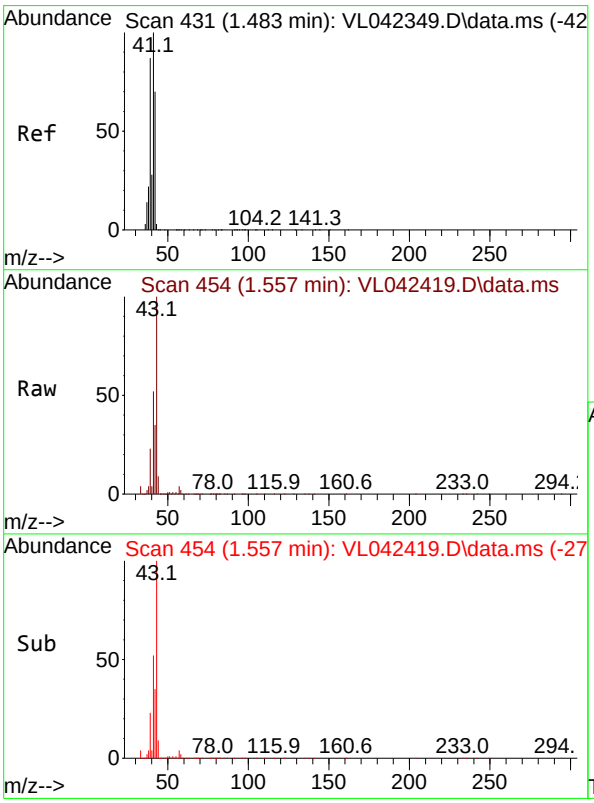

#7
Chloroethane
Concen: 0.040 ppbv
RT: 1.489 min Scan# 4
Delta R.T. -0.214 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-3-3242025

Tgt Ion: 64 Resp: 154

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 0.0 | 24.6 | 37.0# |

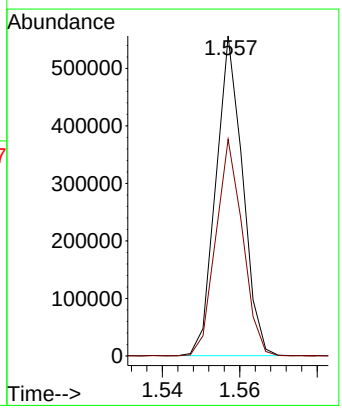


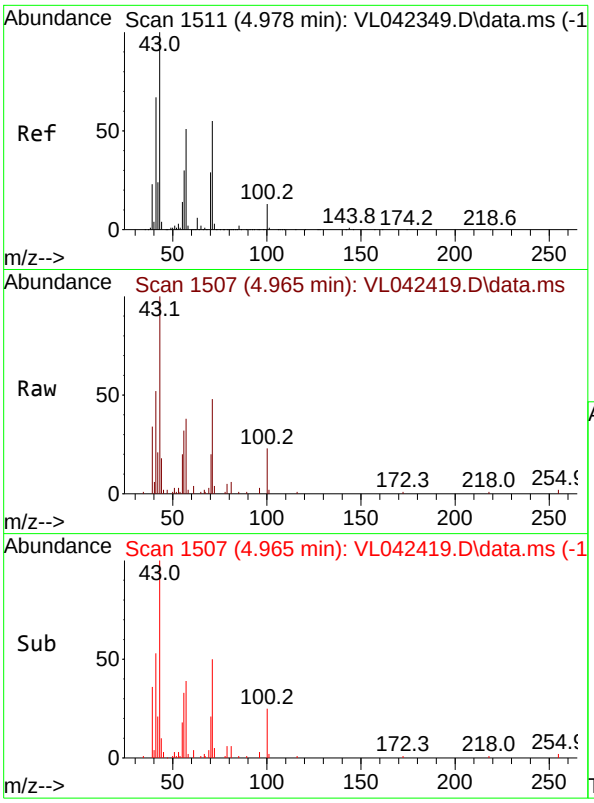




#9
Propene
Concen: 24.586 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.074 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 41 Resp: 266169

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 68.3 | 56.2 | 84.4 |



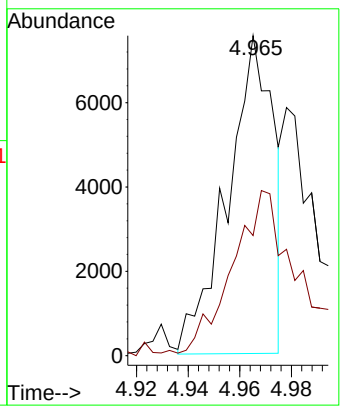


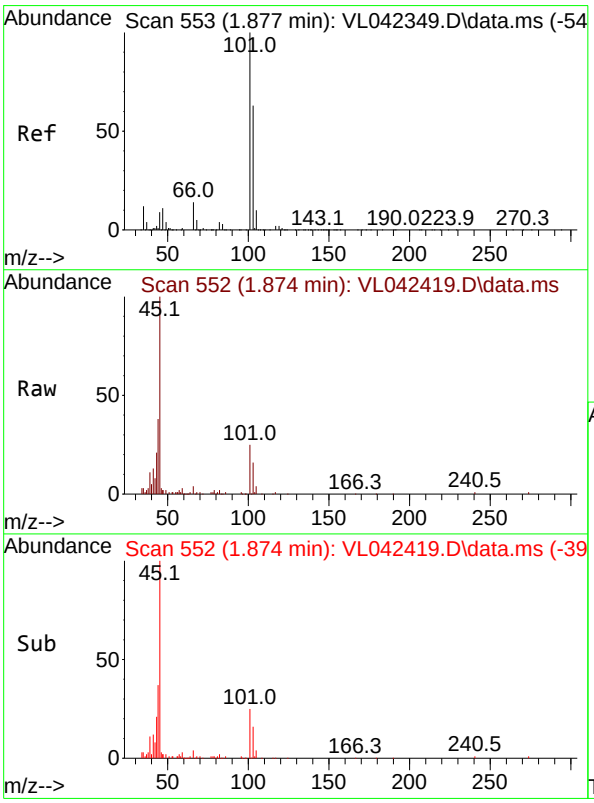

#10
Heptane
Concen: 0.306 ppbv
RT: 4.965 min Scan# 1
Delta R.T. -0.013 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-3-3242025

Tgt Ion: 43 Resp: 9317

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 75.1 | 39.9 | 59.9# |

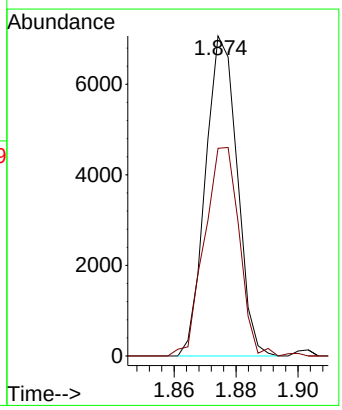


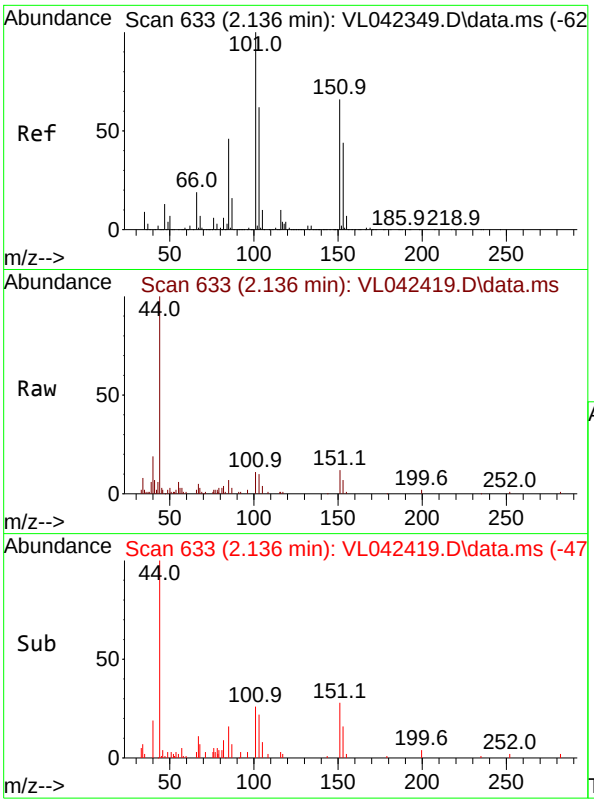




#11
Trichlorofluoromethane
Concen: 0.212 ppbv
RT: 1.874 min Scan# 552
Delta R.T. -0.003 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion:101 Resp: 5024

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.9 | 50.1 | 75.1 |



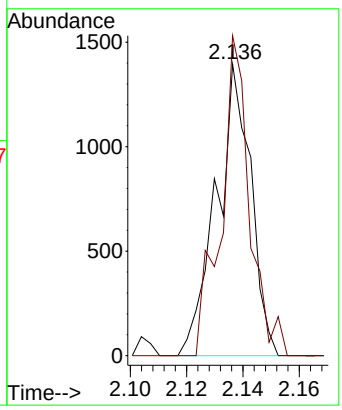


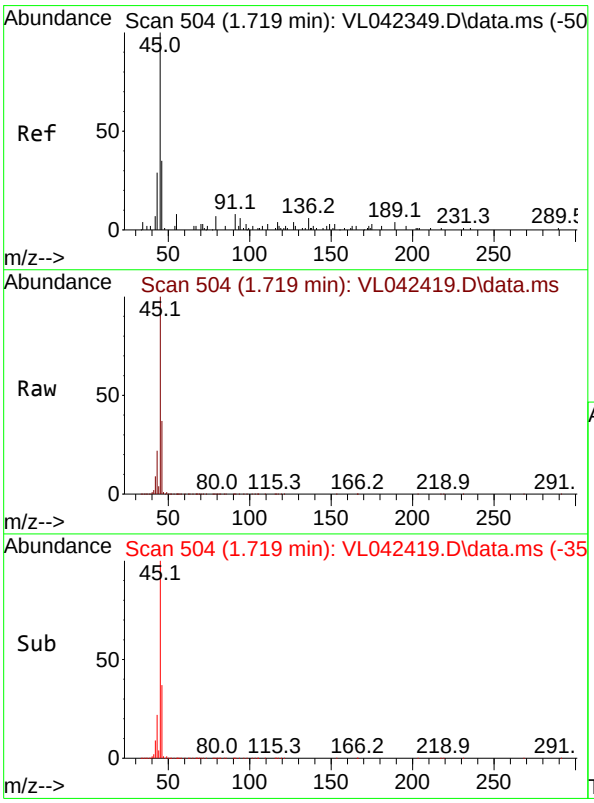

#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.061 ppbv
RT: 2.136 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-3-3242025

Tgt Ion:101 Resp: 1181

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 90.9 | 57.0 | 85.6# |

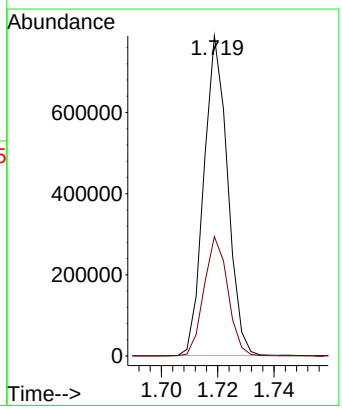


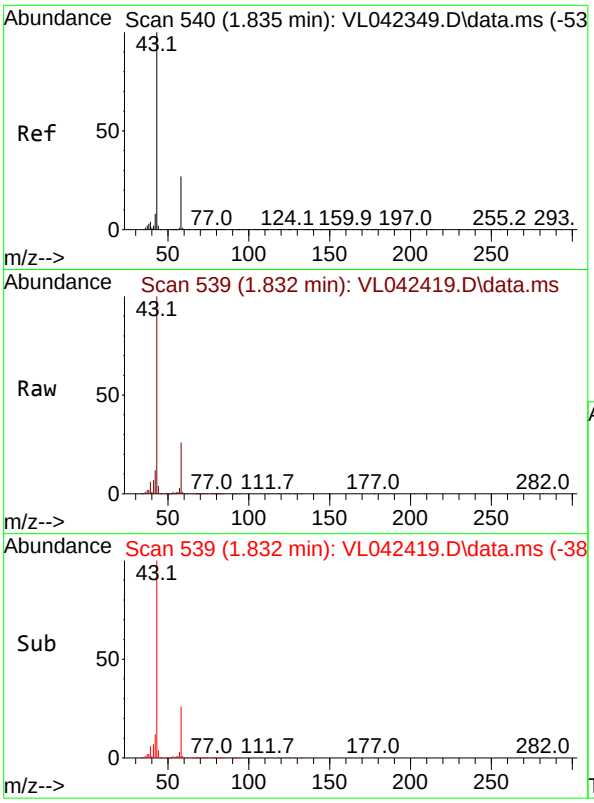




#13
Ethanol
Concen: 267.501 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 45 Resp: 460303

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 37.6 | 21.9 | 87.7 |



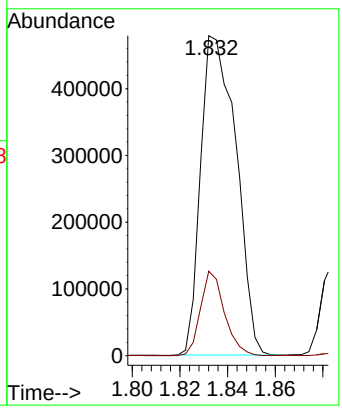


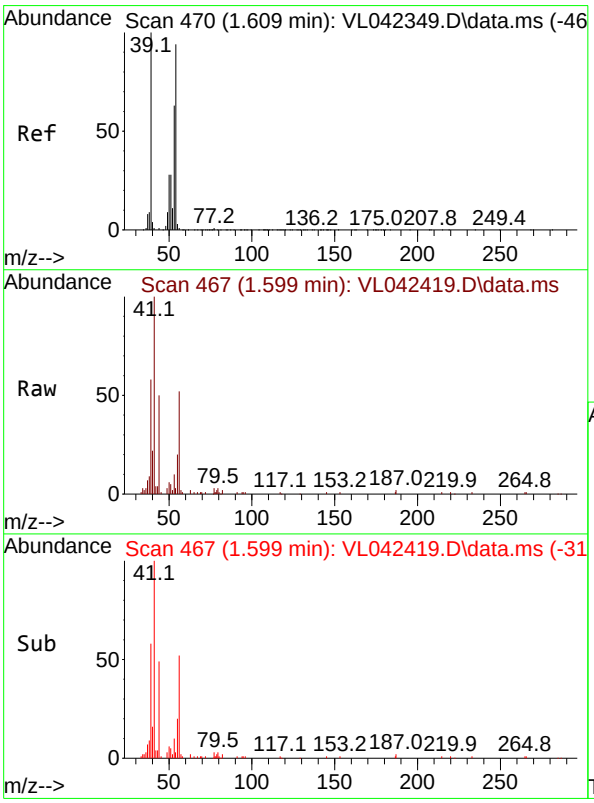

#15
Acetone
Concen: 21.327 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-3-3242025

Tgt Ion: 43 Resp: 493322

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 18.0 | 22.4 | 33.6# |

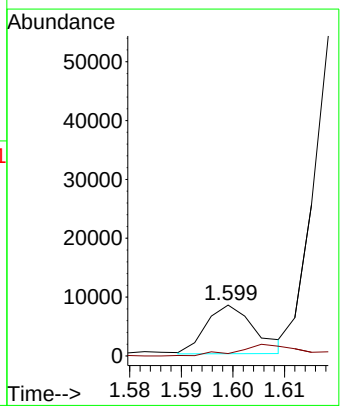


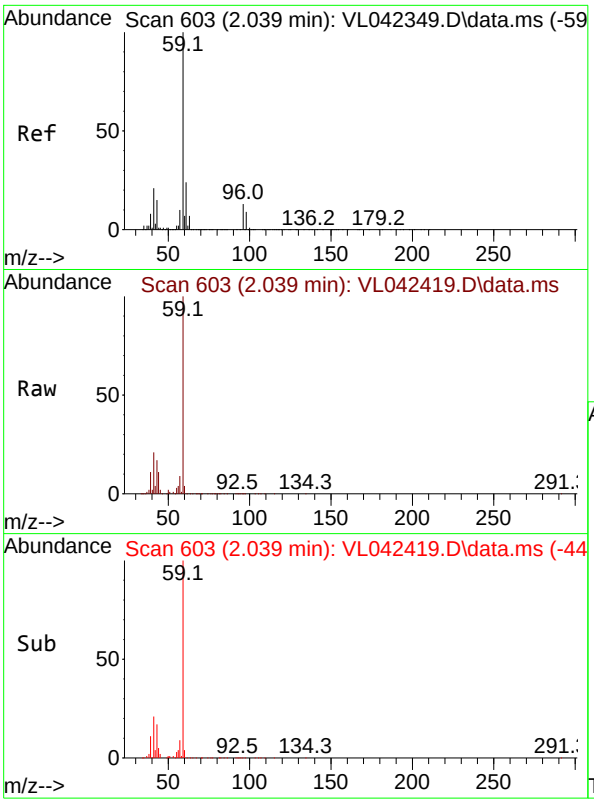




#16
1,3-Butadiene
Concen: 0.491 ppbv
RT: 1.599 min Scan# 467
Delta R.T. -0.010 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 39 Resp: 5437

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 37.1 | 64.9 | 97.3# |



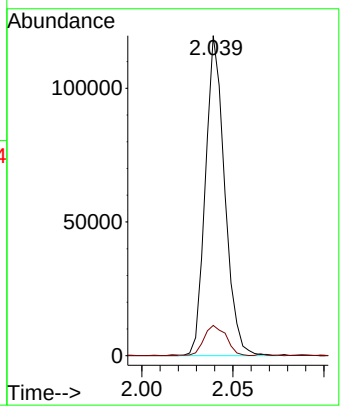


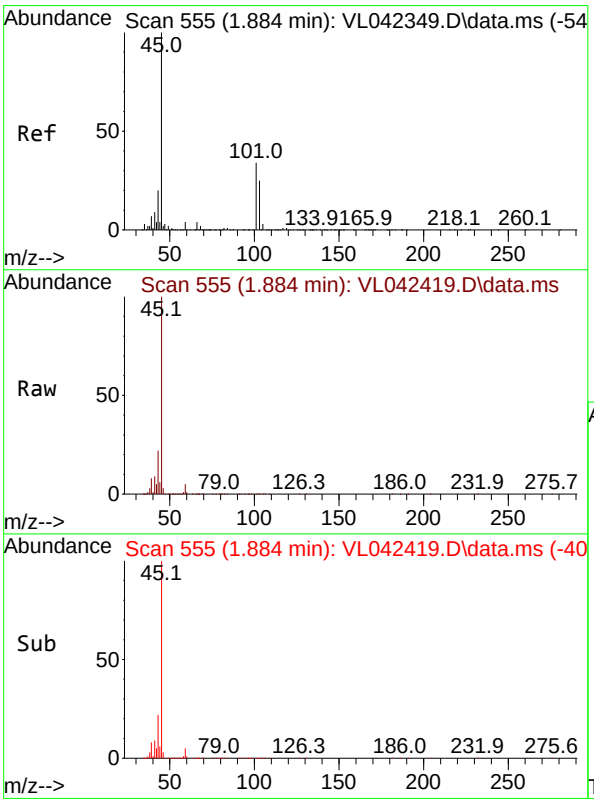

#17
tert-Butyl alcohol
Concen: 3.079 ppbv
RT: 2.039 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-3-3242025

Tgt Ion: 59 Resp: 88272

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 11.2 | 8.7 | 13.1 |

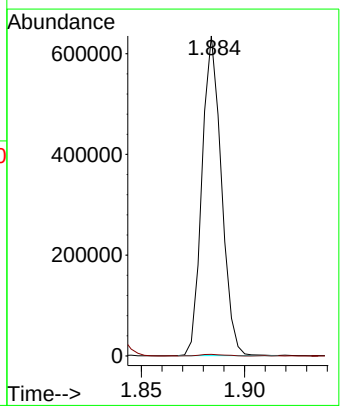


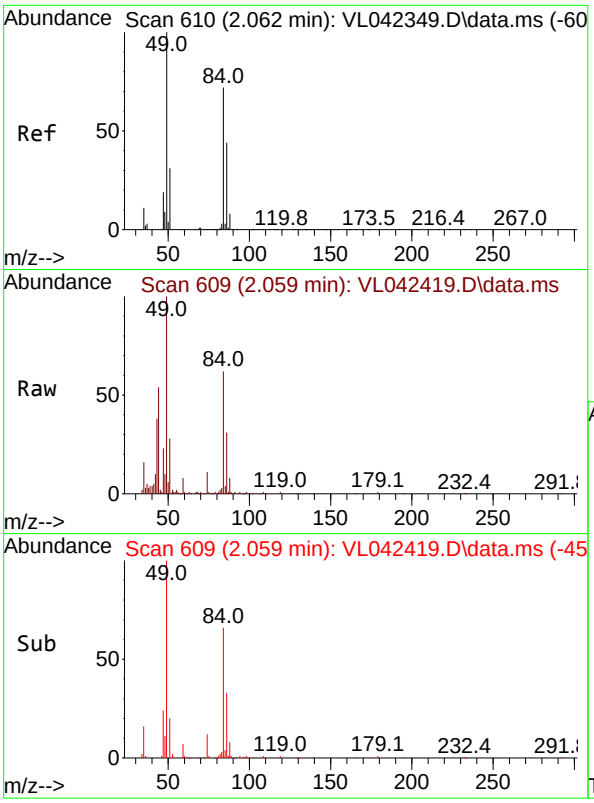




#19
Isopropyl Alcohol
Concen: 32.231 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 45 Resp: 414153

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 21.5 | 34.5 | 51.7# |



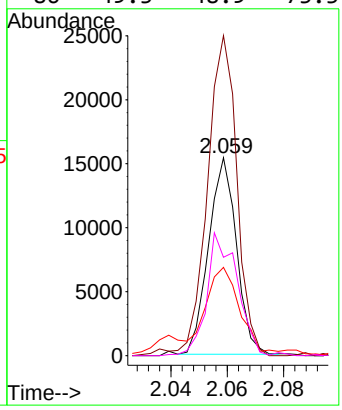


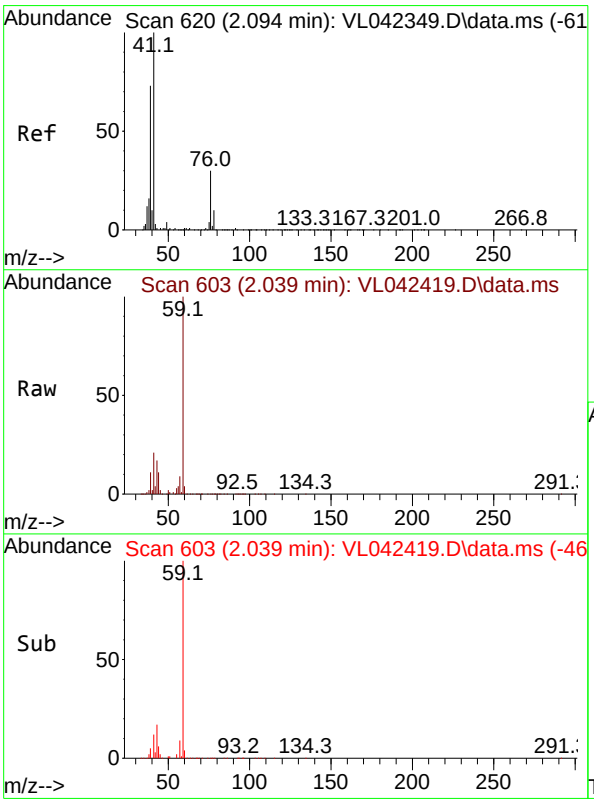

#20
Methylene Chloride
Concen: 1.162 ppbv
RT: 2.059 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-3-3242025

Tgt Ion: 84 Resp: 10525

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 162.9 | 111.6 | 167.4 |
| 51 | 42.8 | 35.1 | 52.7 |
| 86 | 49.3 | 48.9 | 73.3 |

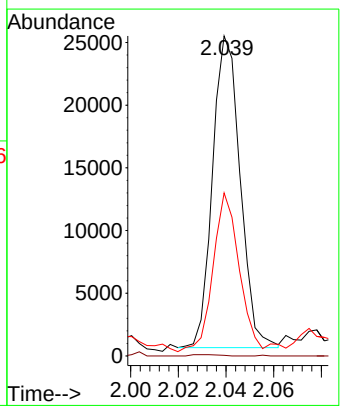


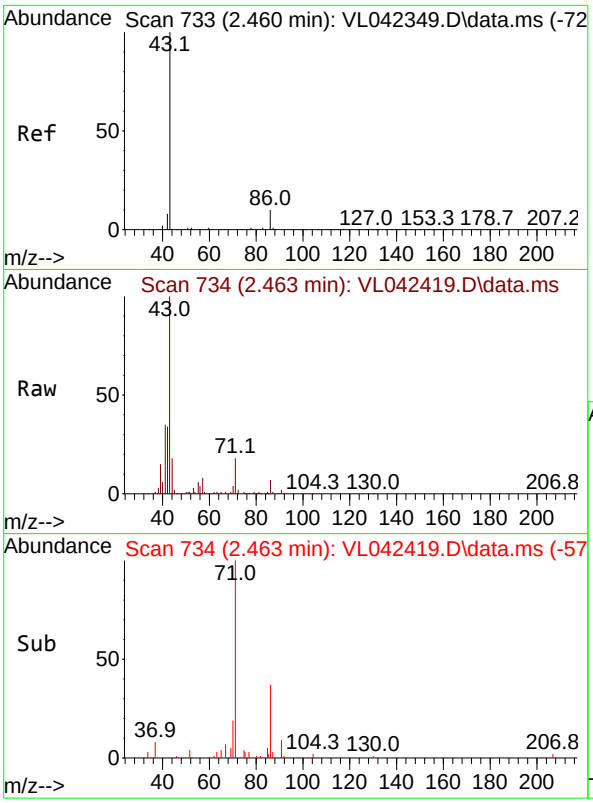




#21
Allyl Chloride
Concen: 1.250 ppbv
RT: 2.039 min Scan# 603
Delta R.T. -0.055 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 41 Resp: 19969

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 6.8 | 24.8 | 37.2# |
| 39 | 57.5 | 60.6 | 90.8# |



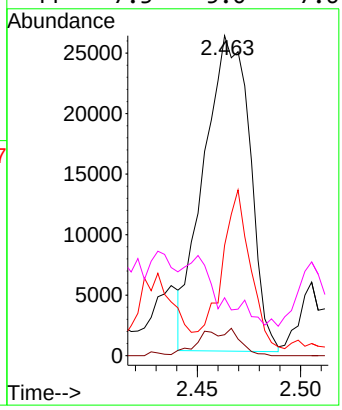


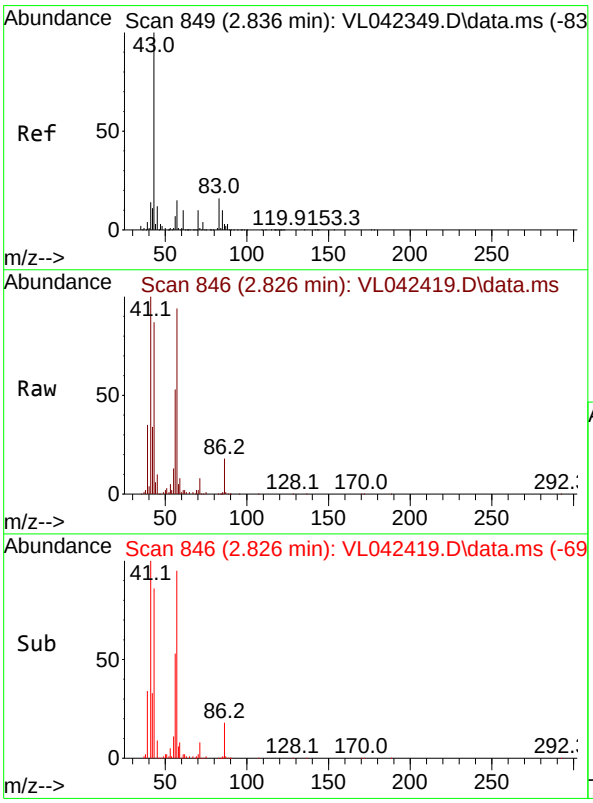

#23
Vinyl Acetate
Concen: 4.323 ppbv
RT: 2.463 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-3-3242025

Tgt Ion: 43 Resp: 40479

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 6.8 | 6.5 | 9.7 |
| 42 | 32.6 | 7.8 | 11.8# |
| 44 | 7.3 | 5.0 | 7.6 |

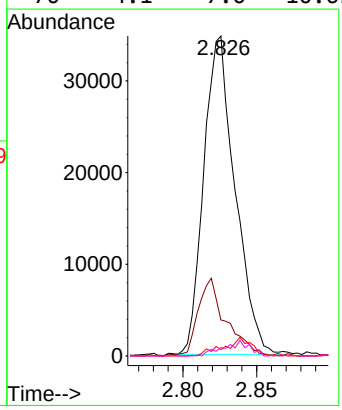


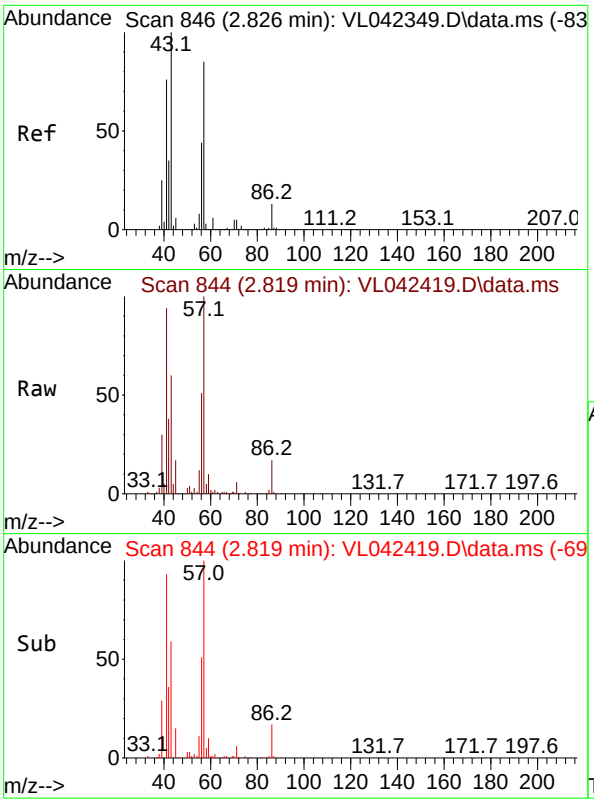




#25
Ethyl Acetate
Concen: 0.898 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.010 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 43 Resp: 51192

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 22.1 | 8.3 | 12.5# |
| 61 | 5.2 | 7.3 | 10.9# |
| 70 | 4.1 | 7.0 | 10.6# |



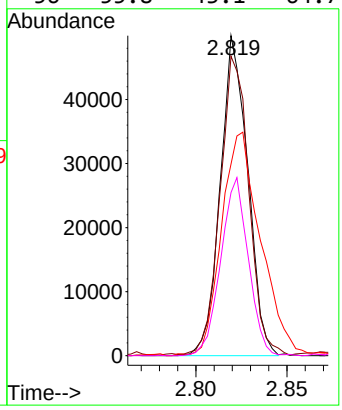


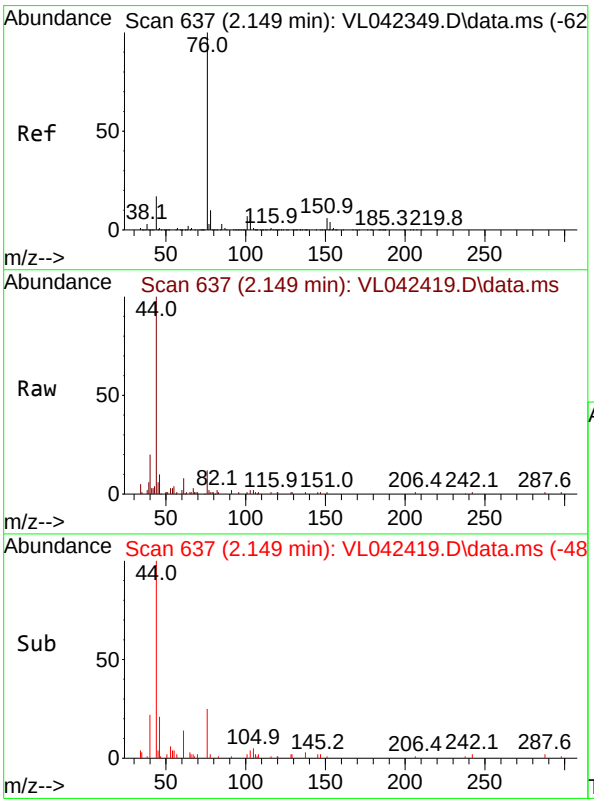

#26
Hexane
Concen: 2.273 ppbv
RT: 2.819 min Scan# 84
Delta R.T. -0.007 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-3-3242025

Tgt Ion: 57 Resp: 52451

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 97.9 | 77.9 | 116.9 |
| 43 | 99.2 | 208.4 | 312.6# |
| 56 | 55.8 | 43.1 | 64.7 |

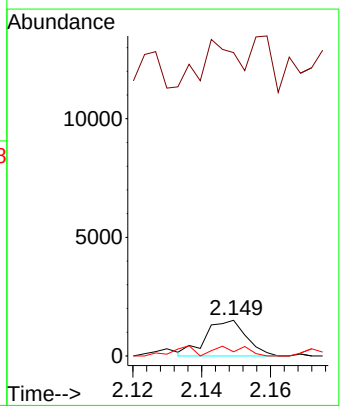


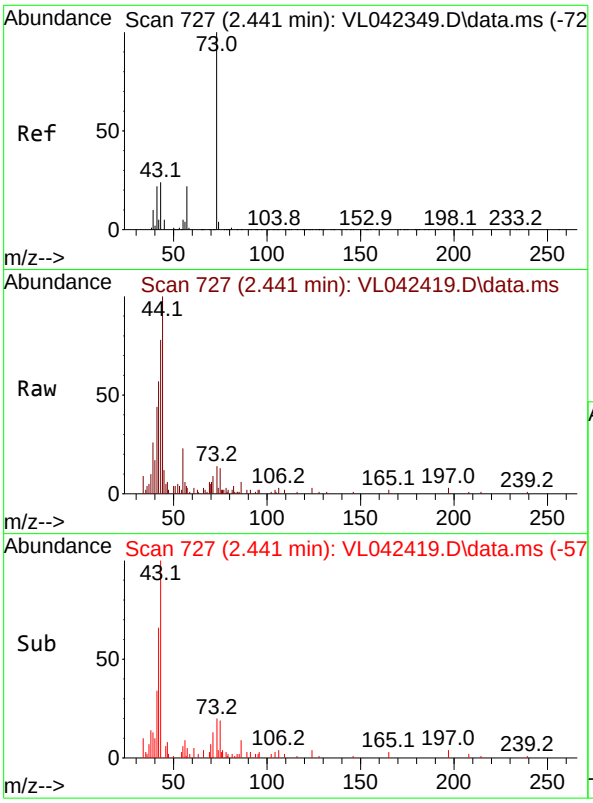




#27
Carbon Disulfide
Concen: 0.050 ppbv
RT: 2.149 min Scan# 637
Delta R.T. -0.000 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 76 Resp: 1231

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 2114.8 | 15.5 | 23.3# |
| 78 | 0.0 | 9.3 | 13.9# |



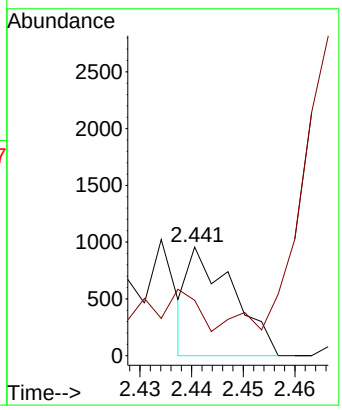


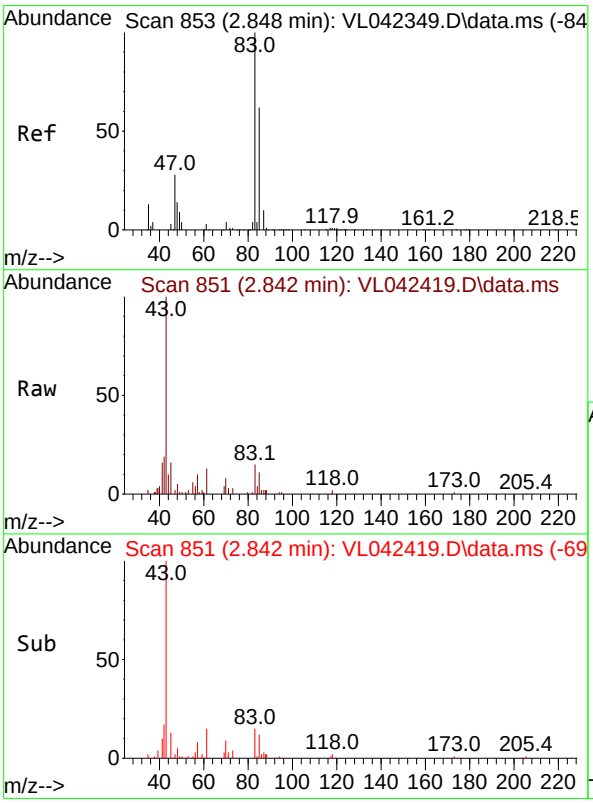

#28
Methyl tert-Butyl Ether
Concen: 0.038 ppbv
RT: 2.441 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-3-3242025

Tgt Ion: 73 Resp: 580

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 0.0 | 21.3 | 31.9# |

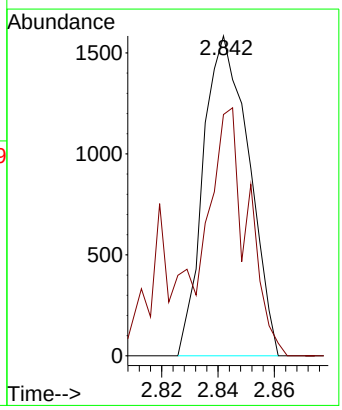


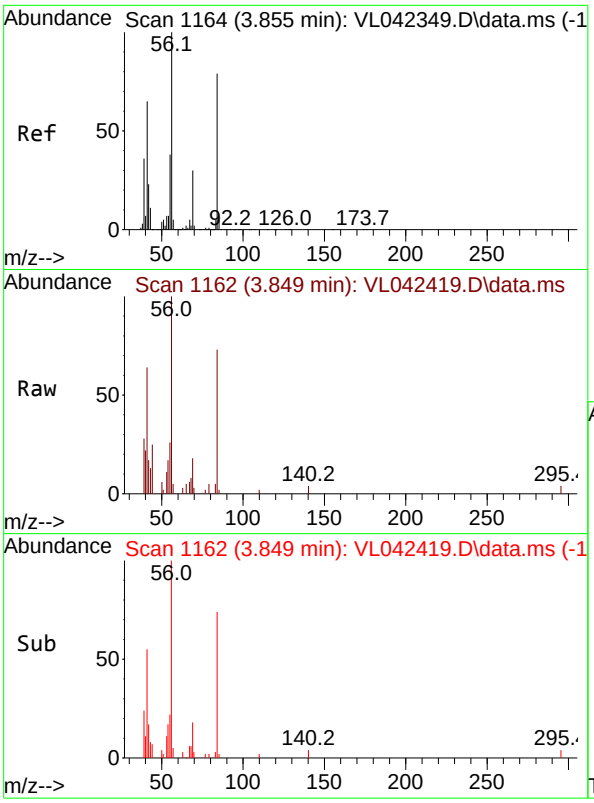




#29
Chloroform
Concen: 0.054 ppbv
RT: 2.842 min Scan# 851
Delta R.T. -0.007 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 83 Resp: 1773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 71.5 | 50.0 | 75.0 |



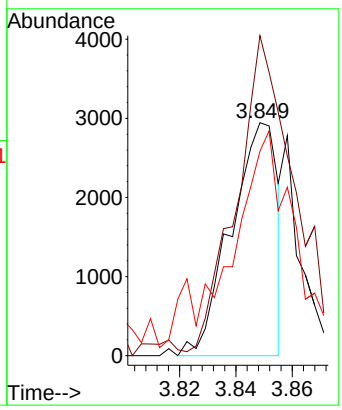


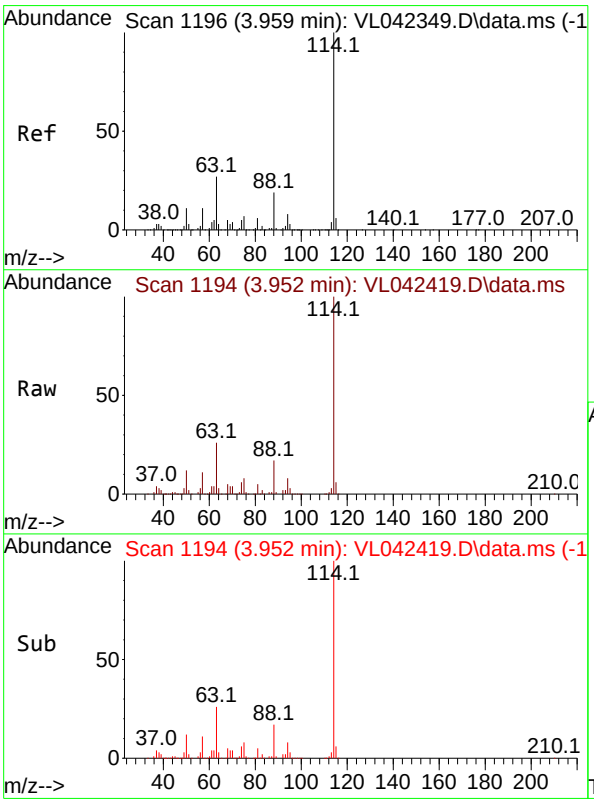

#30
Cyclohexane
Concen: 0.180 ppbv
RT: 3.849 min Scan# 11
Delta R.T. -0.007 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-3-3242025

Tgt Ion: 84 Resp: 3366

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 183.2 | 101.0 | 151.4# |
| 41 | 154.2 | 67.4 | 101.0# |

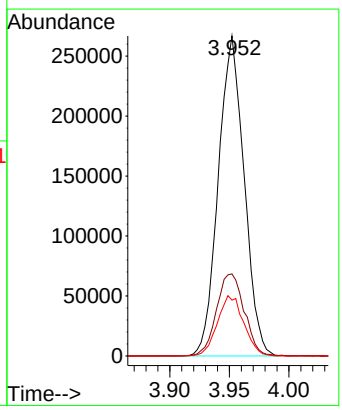


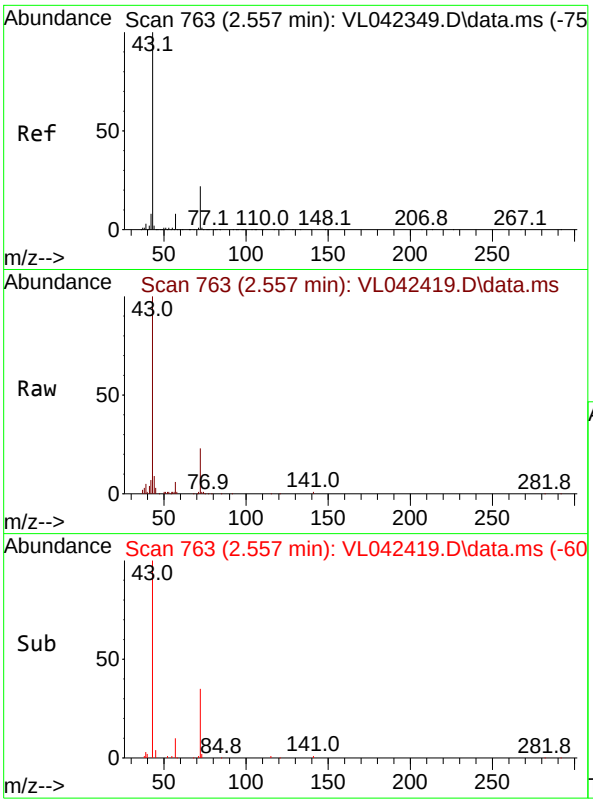




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.007 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion:114 Resp: 401917

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 27.5 | 21.8 | 32.6 |
| 88 | 19.2 | 15.5 | 23.3 |



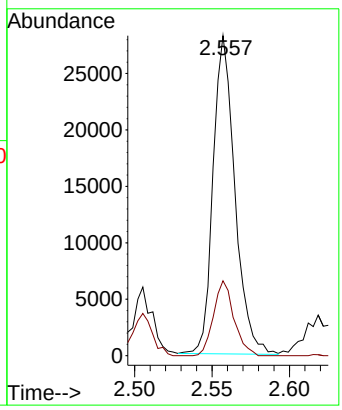


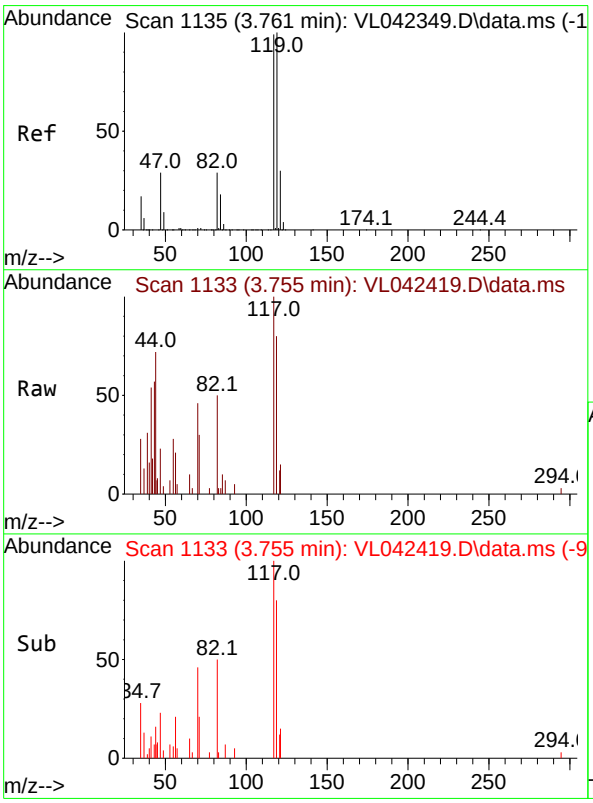

#34
2-Butanone
Concen: 0.869 ppbv
RT: 2.557 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-3-3242025

Tgt Ion: 43 Resp: 27638

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 22.0 | 18.2 | 27.2 |

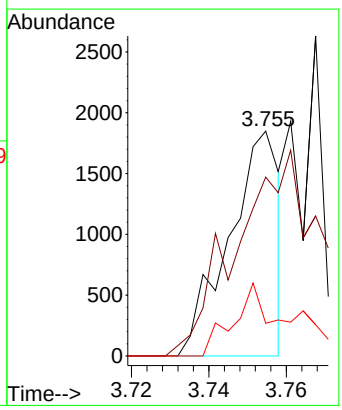


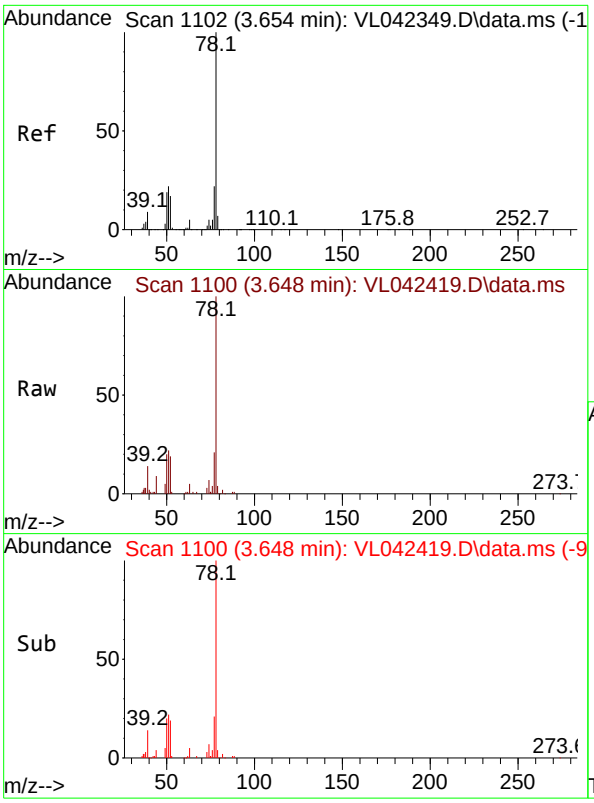




#35
Carbon Tetrachloride
Concen: 0.046 ppbv
RT: 3.755 min Scan# 1133
Delta R.T. -0.007 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion:117 Resp: 1663

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 75.0 | 80.5 | 120.7# |
| 121 | 14.5 | 24.2 | 36.2# |



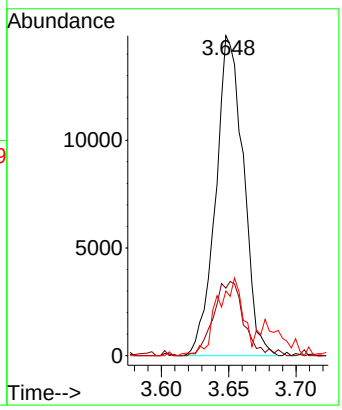


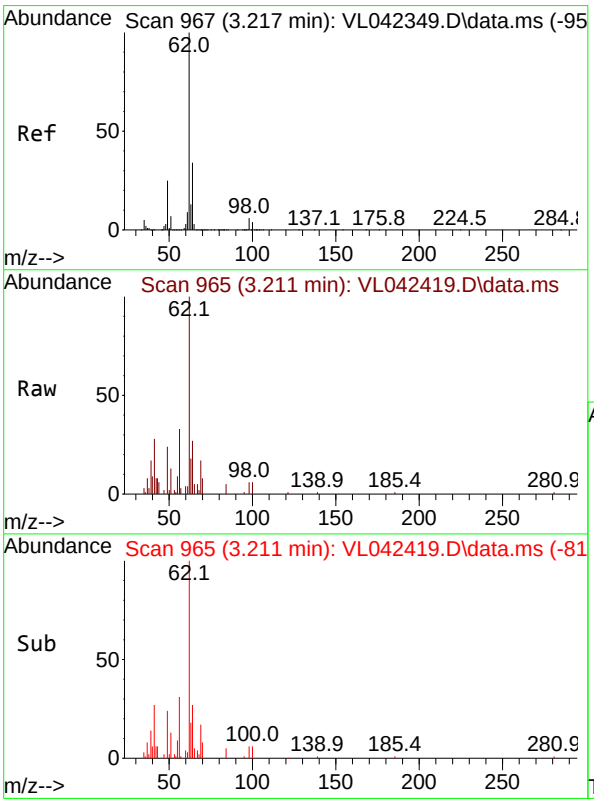

#36
Benzene
Concen: 0.490 ppbv
RT: 3.648 min Scan# 11
Delta R.T. -0.007 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-3-3242025

Tgt Ion: 78 Resp: 21233

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 21.1 | 17.4 | 26.0 |
| 50 | 20.2 | 15.5 | 23.3 |

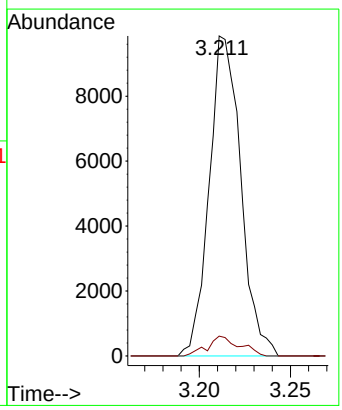


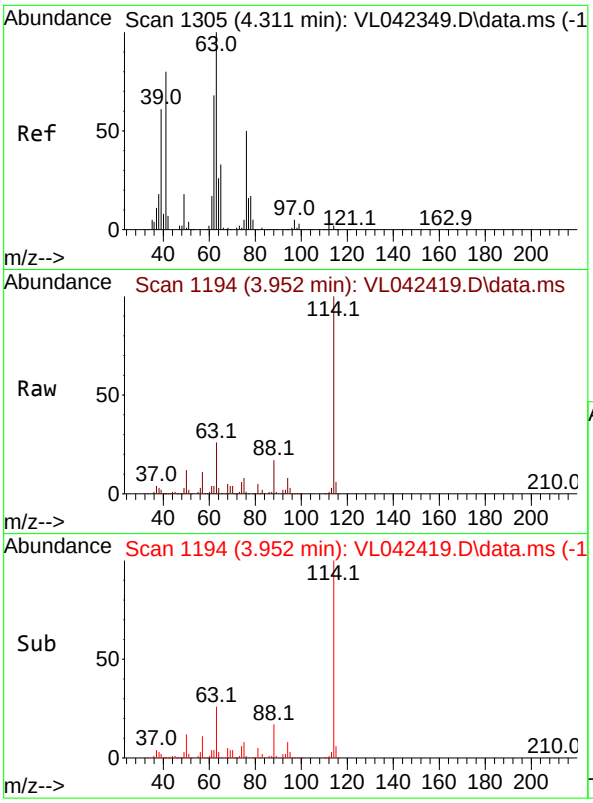




#37
1,2-Dichloroethane
Concen: 0.456 ppbv
RT: 3.211 min Scan# 965
Delta R.T. -0.007 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 62 Resp: 11865

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 6.2 | 5.1 | 7.7 |



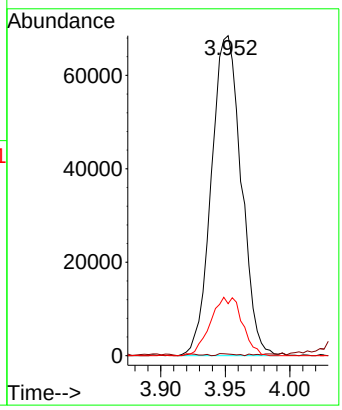


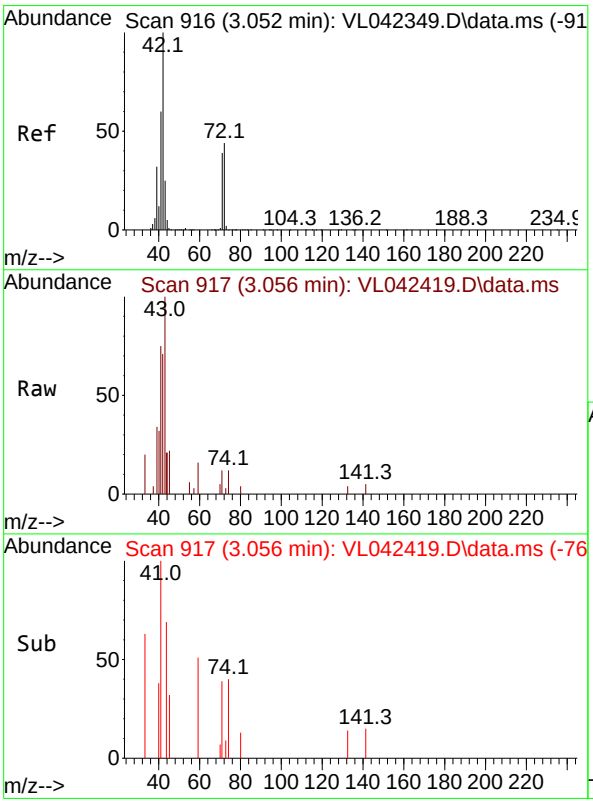

#39
1,2-Dichloropropane
Concen: 6.837 ppbv
RT: 3.952 min Scan# 11
Delta R.T. -0.359 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-3-3242025

Tgt Ion: 63 Resp: 110449

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 0.3 | 64.2 | 96.2# |
| 62 | 16.3 | 54.3 | 81.5# |

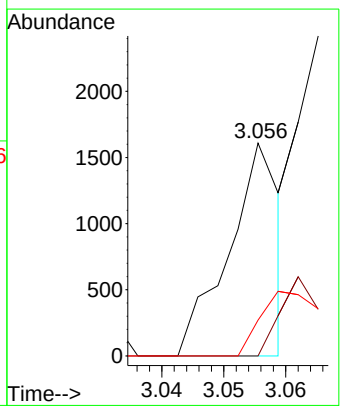


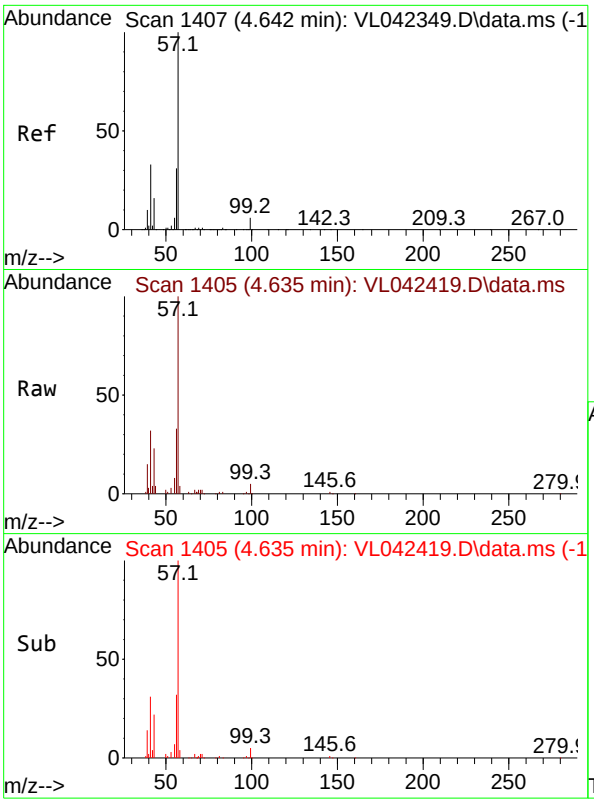




#41
Tetrahydrofuran
Concen: 0.050 ppbv
RT: 3.056 min Scan# 917
Delta R.T. 0.003 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 42 Resp: 927

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 0.0 | 32.3 | 48.5# |
| 71 | 0.0 | 31.4 | 47.2# |



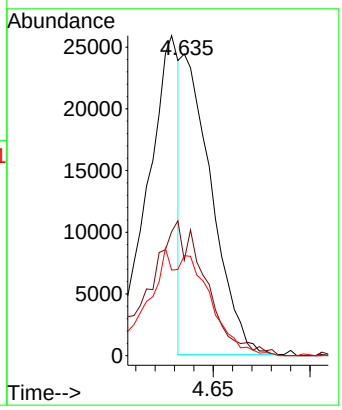


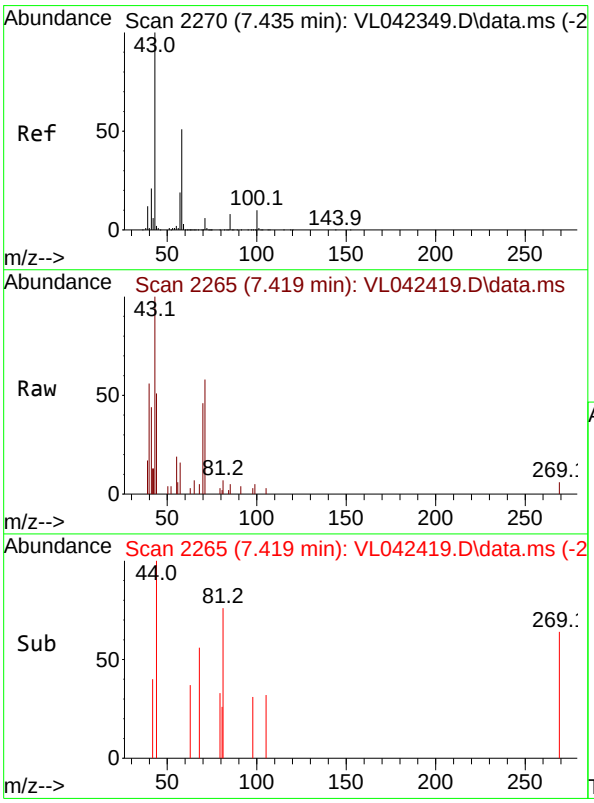

#44
2,2,4-Trimethylpentane
Concen: 0.349 ppbv
RT: 4.635 min Scan# 14
Delta R.T. -0.007 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-3-3242025

Tgt Ion: 57 Resp: 26094

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 0.0 | 27.2 | 40.8# |
| 56 | 0.0 | 25.7 | 38.5# |

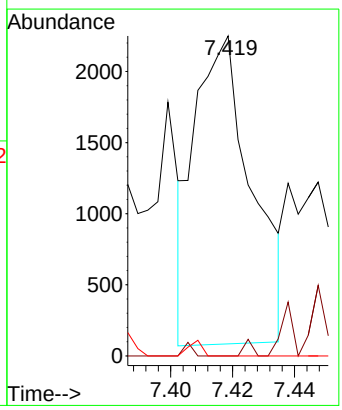


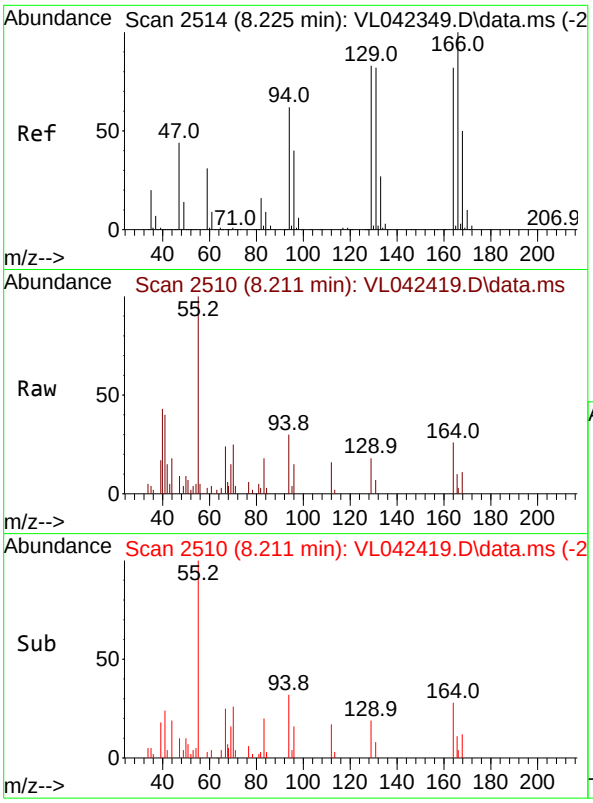




#51
2-Hexanone
Concen: 0.058 ppbv
RT: 7.419 min Scan# 2265
Delta R.T. -0.016 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 43 Resp: 2761

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 0.0 | 40.2 | 60.4# |
| 98 | 0.0 | 0.1 | 0.1# |



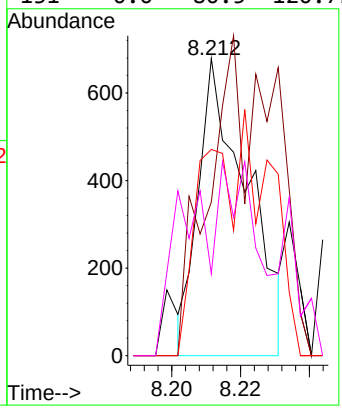


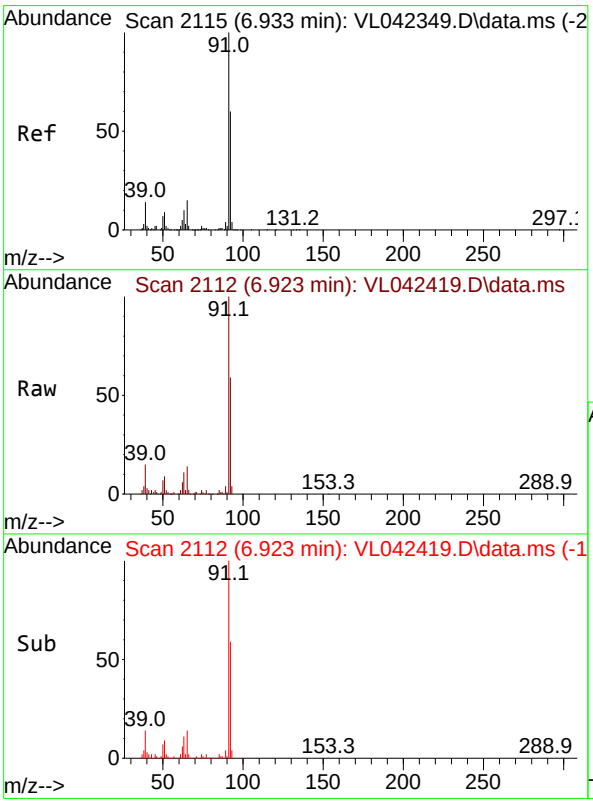

#52
Tetrachloroethene
Concen: 0.040 ppbv
RT: 8.211 min Scan# 2
Delta R.T. -0.013 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-3-3242025

Tgt Ion:164 Resp: 664

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 60.0 | 98.2 | 147.2# |
| 129 | 80.5 | 81.8 | 122.8# |
| 131 | 0.0 | 80.5 | 120.7# |

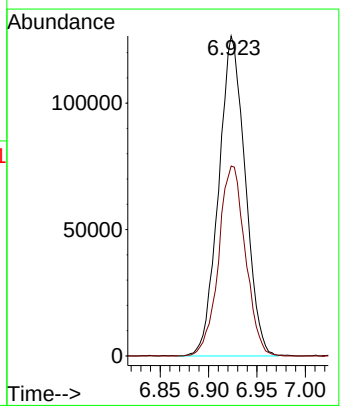


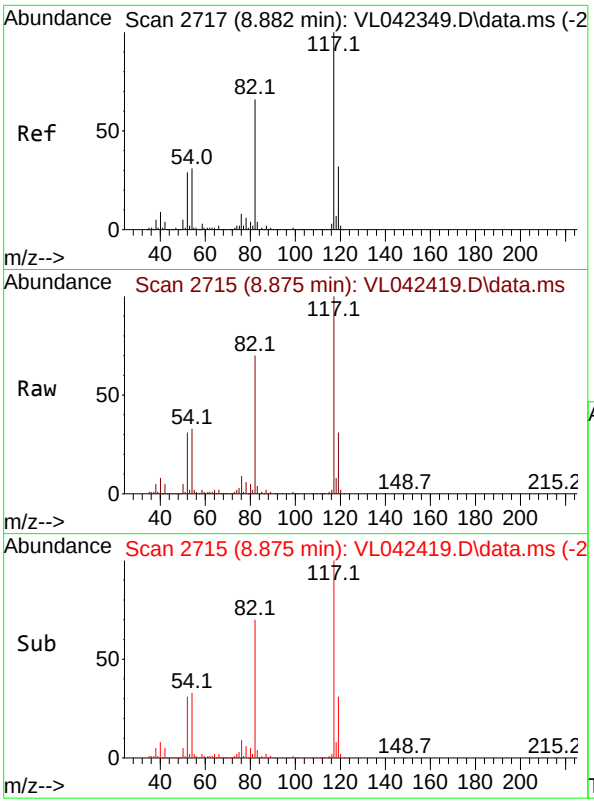




#53
Toluene
Concen: 4.644 ppbv
RT: 6.923 min Scan# 2112
Delta R.T. -0.010 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 91 Resp: 241564

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 59.8 | 48.2 | 72.4 |



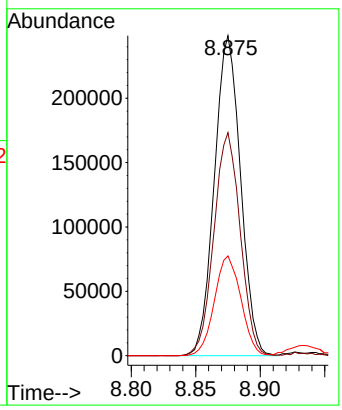


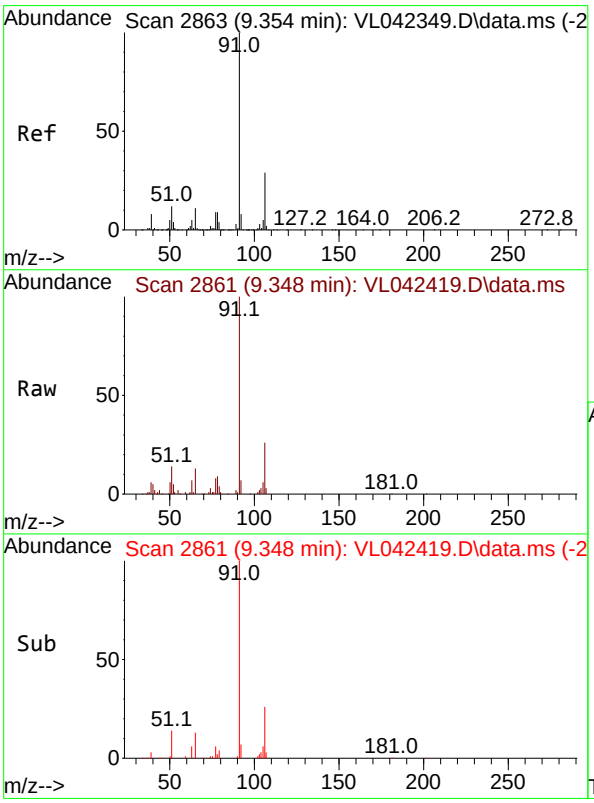

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-3-3242025

Tgt Ion:117 Resp: 351139

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 70.1 | 57.8 | 86.6 |
| 119 | 31.6 | 25.2 | 37.8 |

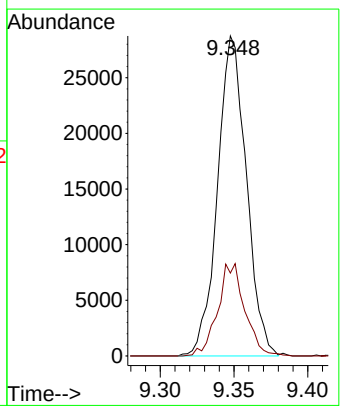


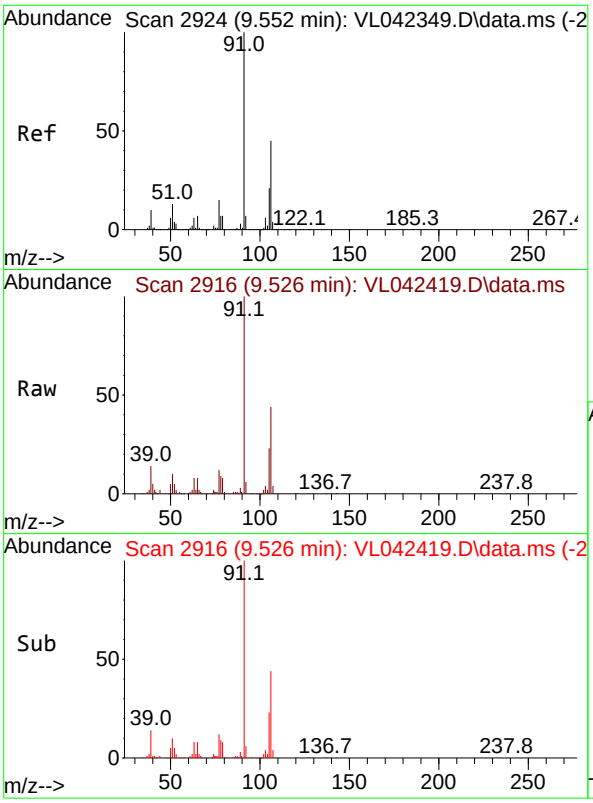




#58
Ethyl Benzene
Concen: 0.561 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. -0.007 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 91 Resp: 39060

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 25.9 | 23.0 | 34.4 |



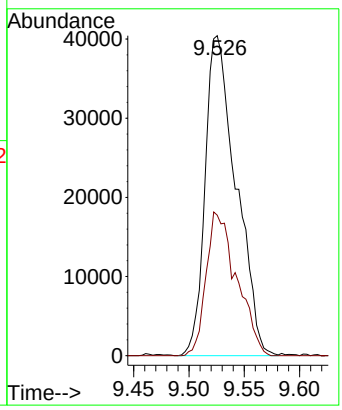


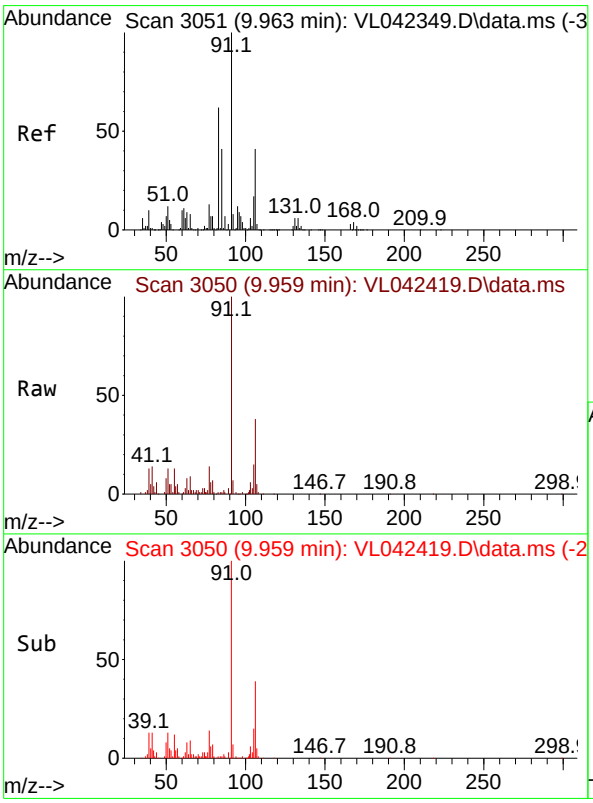

#59
m/p-Xylene
Concen: 1.407 ppbv
RT: 9.526 min Scan# 2
Delta R.T. -0.026 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-3-3242025

Tgt Ion: 91 Resp: 78855

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 44.3 | 35.4 | 53.2 |

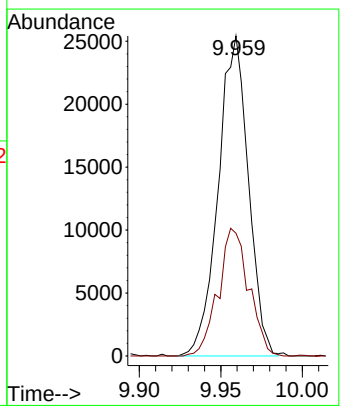


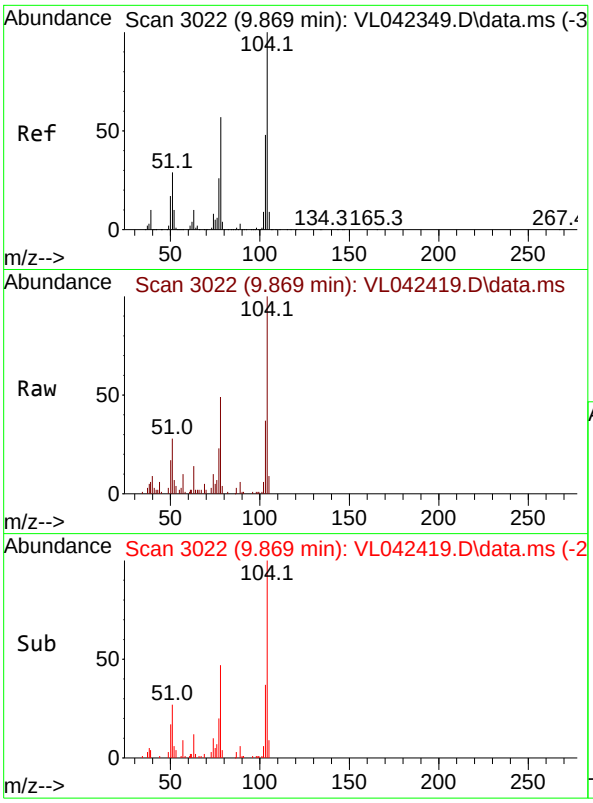




#60
o-Xylene
Concen: 0.578 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.003 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 91 Resp: 32637

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 40.6 | 21.1 | 63.4 |



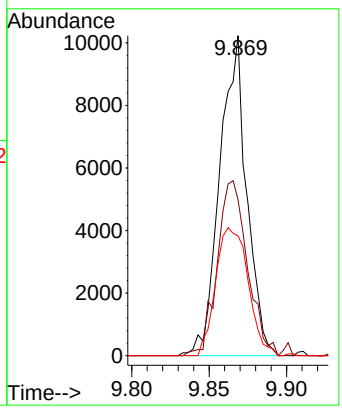


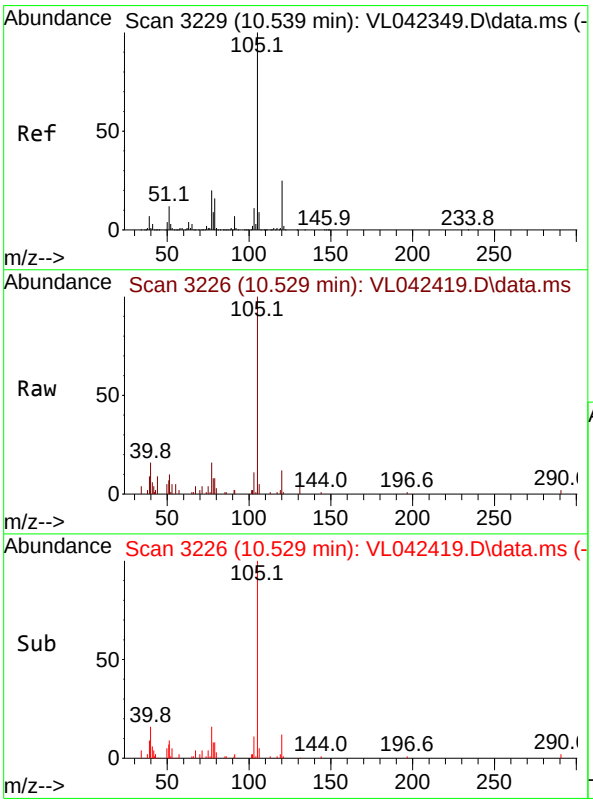

#61
Styrene
Concen: 0.460 ppbv
RT: 9.869 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-3-3242025

Tgt Ion:104 Resp: 12396

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 62.2 | 44.6 | 66.8 |
| 103 | 48.4 | 37.4 | 56.0 |

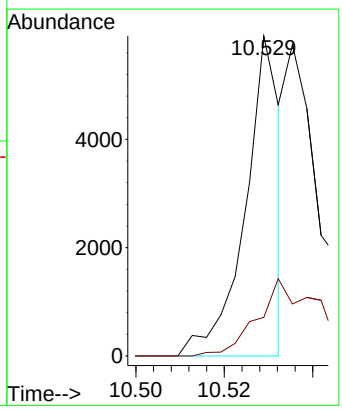


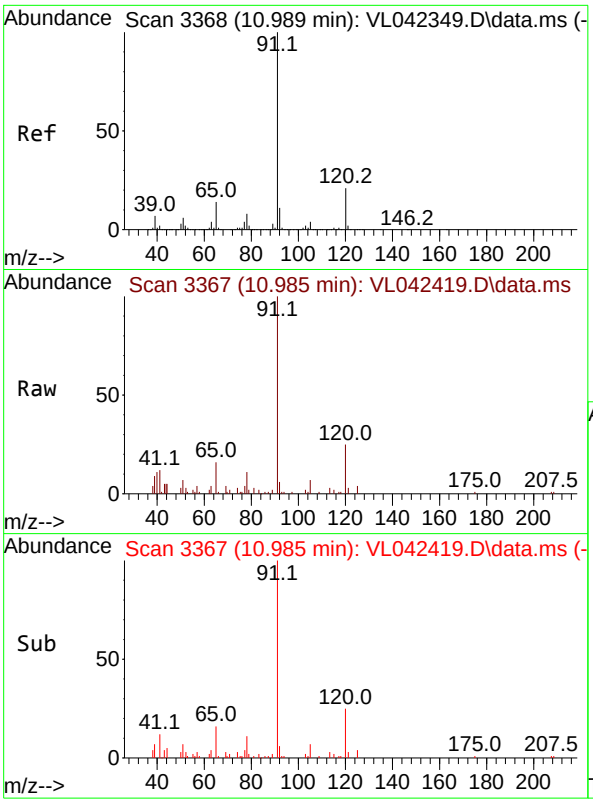




#62
Isopropylbenzene
Concen: 0.039 ppbv
RT: 10.529 min Scan# 3226
Delta R.T. -0.010 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion:105 Resp: 3245

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 0.0 | 19.8 | 29.8# |



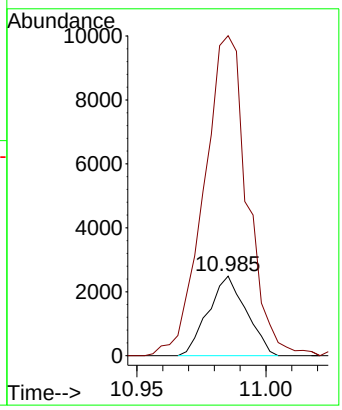


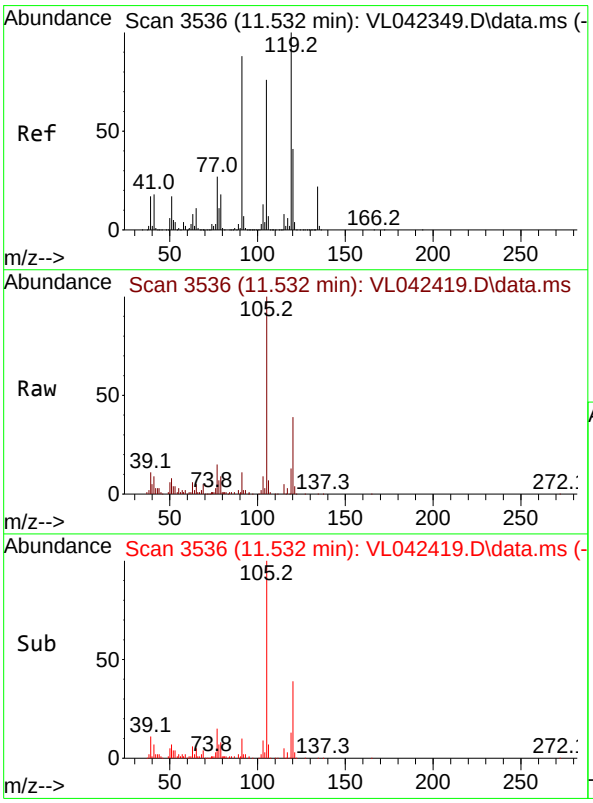

#64
n-propylbenzene
Concen: 0.123 ppbv
RT: 10.985 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-3-3242025

Tgt Ion:120 Resp: 2557

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 461.4 | 392.4 | 588.6 |

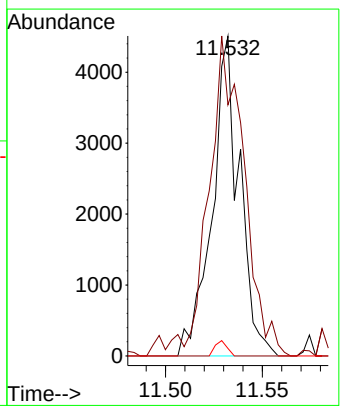


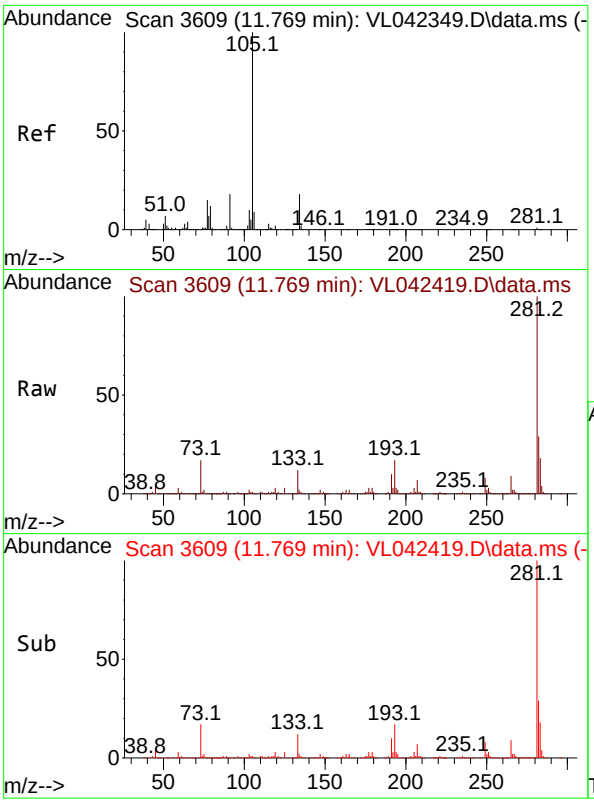




#65
tert-Butylbenzene
Concen: 0.058 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.000 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion:119 Resp: 4429

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 132.1 | 74.6 | 111.8# |
| 134 | 0.0 | 18.8 | 28.2# |



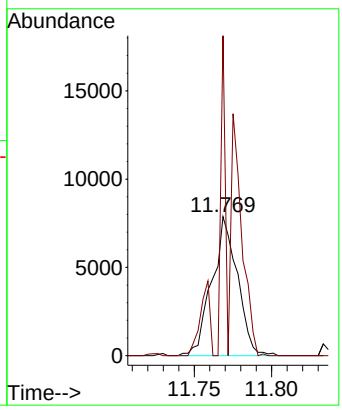


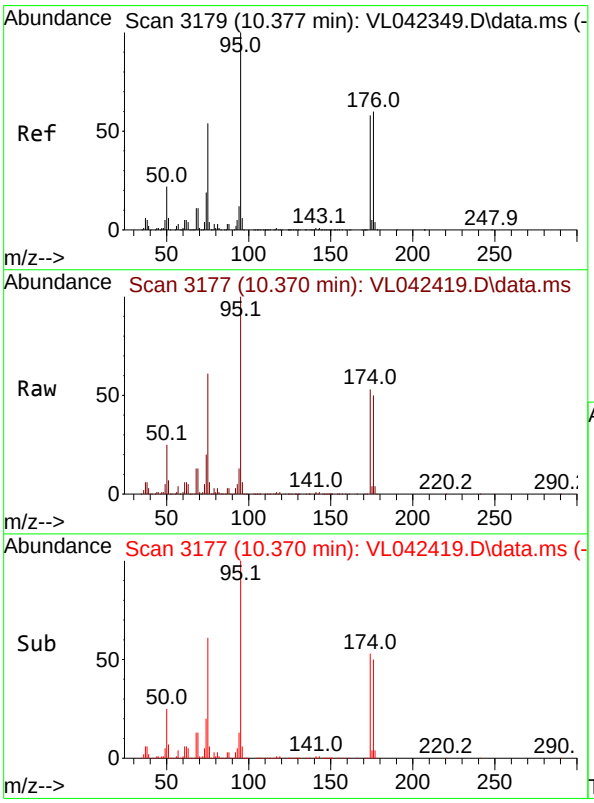

#67
sec-Butylbenzene
Concen: 0.086 ppbv
RT: 11.769 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-3-3242025

Tgt Ion:105 Resp: 9075

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 134.4 | 14.6 | 21.8# |

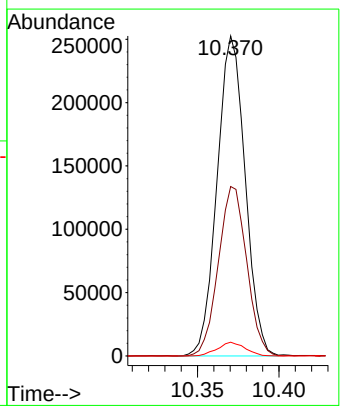


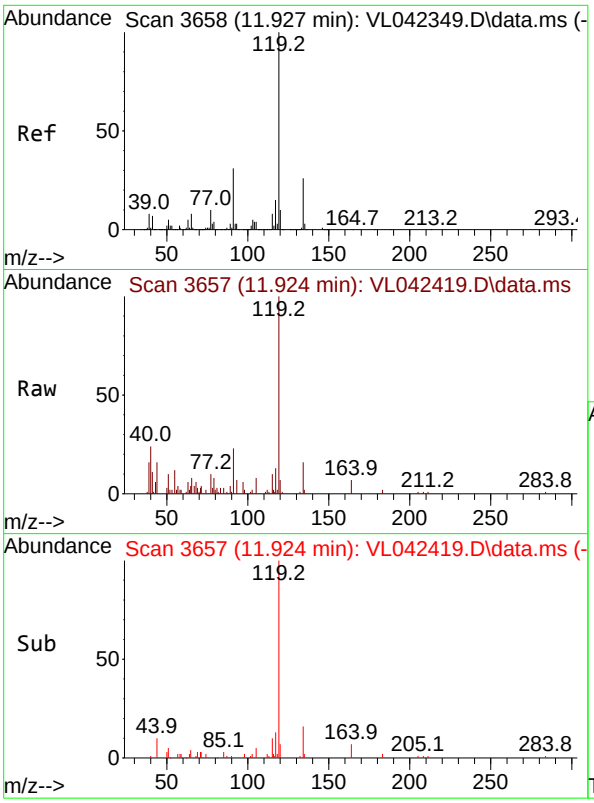




#68
1-Bromo-4-Fluorobenzene
Concen: 10.481 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. -0.007 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 95 Resp: 302429

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 53.5 | 48.5 | 72.7 |
| 175 | 4.2 | 3.7 | 5.5 |



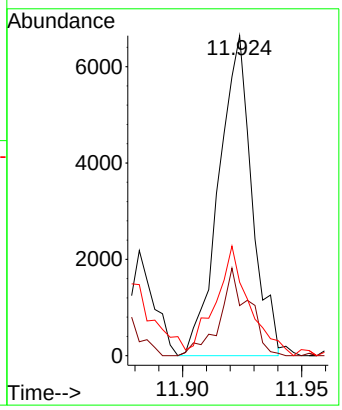


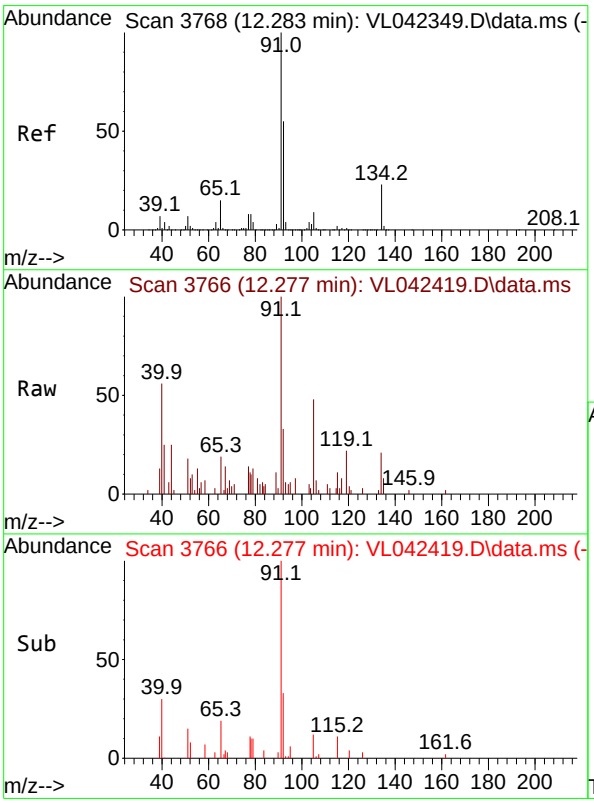

#69
p-Isopropyltoluene
Concen: 0.070 ppbv
RT: 11.924 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-3-3242025

Tgt Ion:119 Resp: 6420

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 24.2 | 20.0 | 30.0 |
| 91 | 35.6 | 24.4 | 36.6 |

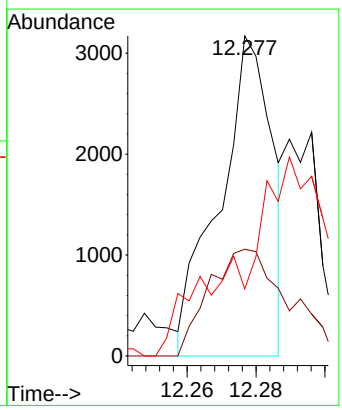


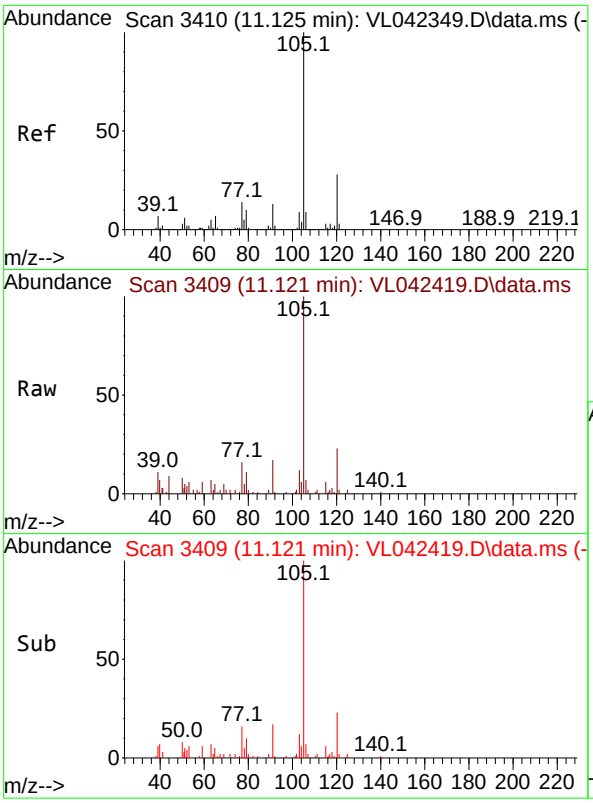




#70
n-Butylbenzene
Concen: 0.035 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. -0.007 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion: 91 Resp: 3378

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 52.4 | 44.2 | 66.4 |
| 134 | 0.0 | 18.2 | 27.4# |



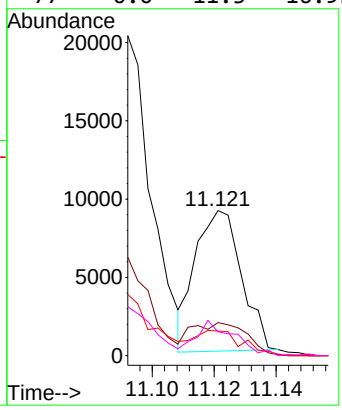


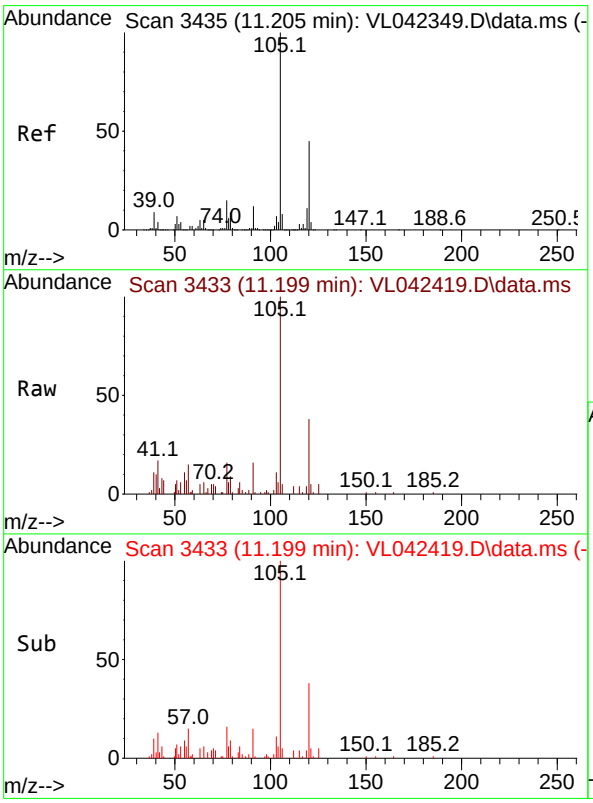

#72
4-Ethyltoluene
Concen: 0.135 ppbv
RT: 11.121 min Scan# 34
Delta R.T. -0.003 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-3-3242025

Tgt Ion:105 Resp: 9307

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 0.0 | 23.2 | 34.8# |
| 91 | 0.0 | 10.4 | 15.6# |
| 77 | 0.0 | 11.3 | 16.9# |

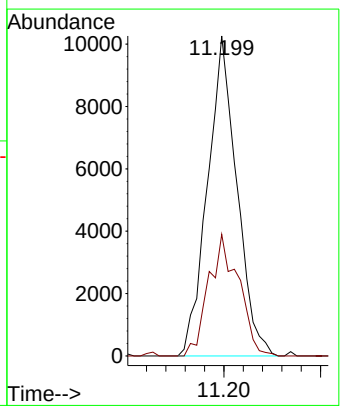


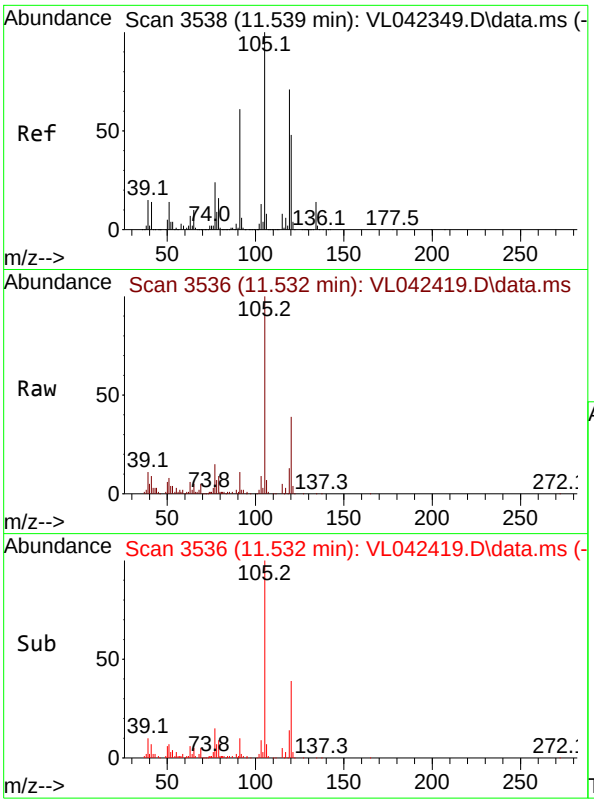




#73
1,3,5-Trimethylbenzene
Concen: 0.177 ppbv
RT: 11.199 min Scan# 3433
Delta R.T. -0.007 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion:105 Resp: 10799

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 38.0 | 35.6 | 53.4 |



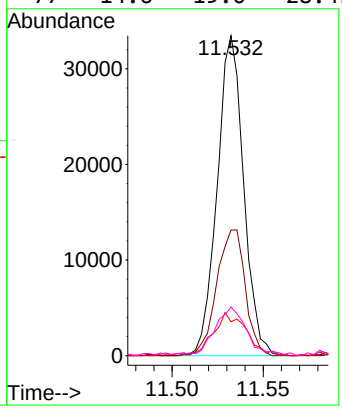


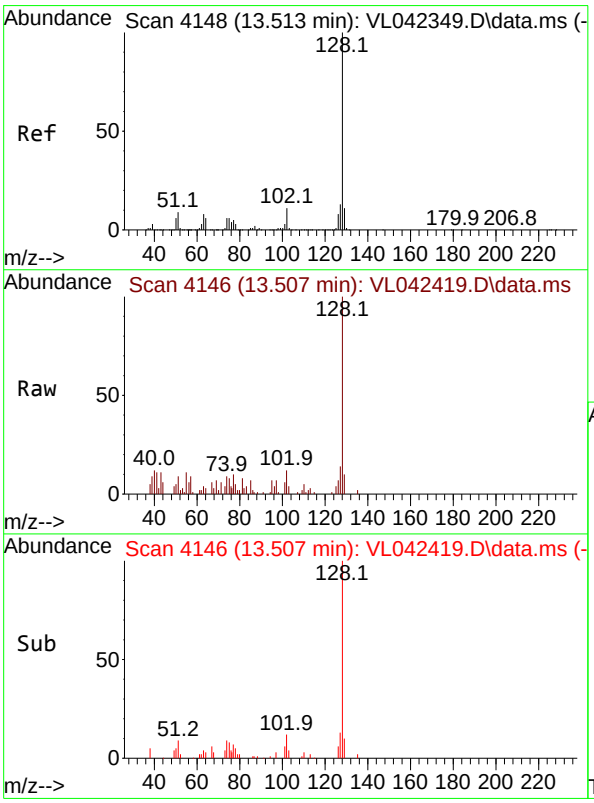

#74
1,2,4-Trimethylbenzene
Concen: 0.475 ppbv
RT: 11.532 min Scan# 3
Delta R.T. -0.007 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-3-3242025

Tgt Ion:105 Resp: 33801

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 39.3 | 38.1 | 57.1 |
| 91 | 10.1 | 48.8 | 73.2# |
| 77 | 14.6 | 19.0 | 28.4# |

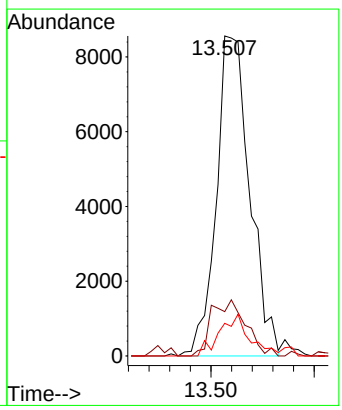


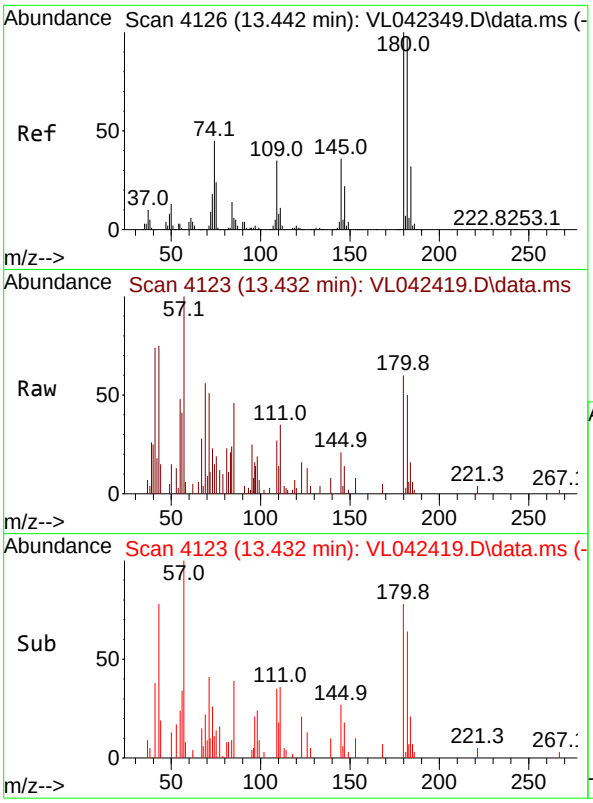




#79
Naphthalene
Concen: 0.113 ppbv
RT: 13.507 min Scan# 4146
Delta R.T. -0.007 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

Tgt Ion:128 Resp: 9645

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.8 | 10.6 | 15.8 |
| 129 | 10.2 | 8.6 | 12.8 |



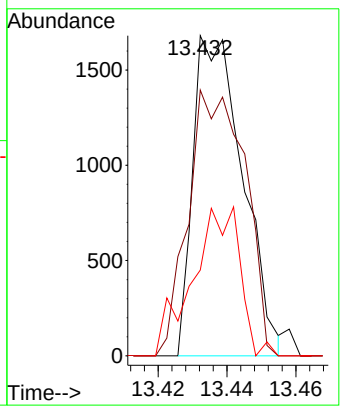



#81
1,2,4-Trichlorobenzene
Concen: 0.046 ppbv
RT: 13.432 min Scan# 4
Delta R.T. -0.010 min
Lab File: VL042419.D
Acq: 28 Apr 2025 10:59

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-3-3242025

Tgt Ion:180 Resp: 1680

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.2 | 76.8 | 115.2 |
| 184 | 44.6 | 24.6 | 36.8# |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042420.D
Acq On : 28 Apr 2025 11:33
Operator : SY/MD
Sample : Q1665-07
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025

Quant Time: Apr 29 01:34:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 2.777 | 49 | 141186 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.949 | 114 | 402115 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.868 | 117 | 352885 | 10.000 | ppbv | | -0.01 |
| System Monitoring Compounds | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.367 | 95 | 302328 | 10.426 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 104.300% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.495 | 85 | 10705 | 0.429 | ppbv | | 100 |
| 3) Chlorodifluoromethane | 1.463 | 51 | 93097 | 3.919 | ppbv | # | 60 |
| 4) Chloromethane | 1.528 | 50 | 5568 | 0.564 | ppbv | | 99 |
| 6) Bromomethane | 1.664 | 94 | 139 | 0.030 | ppbv | # | 39 |
| 9) Propene | 1.557 | 41 | 267054 | 24.687 | ppbv | | 100 |
| 10) Heptane | 4.965 | 43 | 10944 | 0.360 | ppbv | # | 80 |
| 11) Trichlorofluoromethane | 1.871 | 101 | 4925 | 0.208 | ppbv | | 88 |
| 13) Ethanol | 1.719 | 45 | 472110 | 274.580 | ppbv | | 77 |
| 15) Acetone | 1.832 | 43 | 502160 | 21.727 | ppbv | # | 82 |
| 16) 1,3-Butadiene | 1.596 | 39 | 7088 | 0.641 | ppbv | # | 43 |
| 17) tert-Butyl alcohol | 2.039 | 59 | 85888 | 2.999 | ppbv | | 100 |
| 19) Isopropyl Alcohol | 1.881 | 45 | 428440 | 33.369 | ppbv | # | 66 |
| 20) Methylene Chloride | 2.055 | 84 | 8914 | 0.985 | ppbv | | 95 |
| 21) Allyl Chloride | 2.036 | 41 | 21270 | 1.333 | ppbv | # | 63 |
| 23) Vinyl Acetate | 2.463 | 43 | 27871 | 2.979 | ppbv | # | 57 |
| 25) Ethyl Acetate | 2.819 | 43 | 50759 | 0.891 | ppbv | # | 80 |
| 26) Hexane | 2.816 | 57 | 53184 | 2.306 | ppbv | # | 41 |
| 27) Carbon Disulfide | 2.149 | 76 | 1195 | 0.048 | ppbv | # | 40 |
| 28) Methyl tert-Butyl Ether | 2.434 | 73 | 916 | 0.061 | ppbv | # | 1 |
| 30) Cyclohexane | 3.842 | 84 | 4557 | 0.244 | ppbv | # | 88 |
| 34) 2-Butanone | 2.554 | 43 | 26974 | 0.848 | ppbv | | 98 |
| 36) Benzene | 3.641 | 78 | 11344 | 0.262 | ppbv | | 95 |
| 37) 1,2-Dichloroethane | 3.208 | 62 | 12506 | 0.480 | ppbv | | 98 |
| 39) 1,2-Dichloropropane | 3.946 | 63 | 109025 | 6.746 | ppbv | # | 24 |
| 41) Tetrahydrofuran | 3.059 | 42 | 2829 | 0.153 | ppbv | # | 67 |
| 44) 2,2,4-Trimethylpentane | 4.625 | 57 | 47245 | 0.631 | ppbv | # | 85 |
| 50) 4-Methyl-2-Pentanone | 5.748 | 43 | 18997 | 0.359 | ppbv | | 100 |
| 53) Toluene | 6.920 | 91 | 226903 | 4.360 | ppbv | | 99 |
| 56) 1,1,1,2-Tetrachloroethane | 8.927 | 131 | 786 | 0.037 | ppbv | # | 8 |
| 58) Ethyl Benzene | 9.344 | 91 | 36433 | 0.521 | ppbv | | 97 |
| 59) m/p-Xylene | 9.542 | 91 | 13197 | 0.234 | ppbv | # | 32 |
| 60) o-Xylene | 9.956 | 91 | 28805 | 0.508 | ppbv | | 99 |
| 61) Styrene | 9.859 | 104 | 11652 | 0.430 | ppbv | | 93 |
| 62) Isopropylbenzene | 10.532 | 105 | 6243 | 0.075 | ppbv | | 95 |
| 64) n-propylbenzene | 10.979 | 120 | 2601 | 0.124 | ppbv | | 72 |
| 65) tert-Butylbenzene | 11.526 | 119 | 3906 | 0.051 | ppbv | # | 56 |
| 67) sec-Butylbenzene | 11.772 | 105 | 9253 | 0.087 | ppbv | # | 1 |
| 69) p-Isopropyltoluene | 11.917 | 119 | 5675 | 0.061 | ppbv | # | 86 |
| 71) 2-Chlorotoluene | 10.895 | 91 | 2387 | 0.037 | ppbv | | 94 |
| 72) 4-Ethyltoluene | 11.118 | 105 | 9487 | 0.137 | ppbv | # | 64 |
| 73) 1,3,5-Trimethylbenzene | 11.196 | 105 | 9349 | 0.153 | ppbv | # | 77 |
| 74) 1,2,4-Trimethylbenzene | 11.529 | 105 | 32107 | 0.449 | ppbv | # | 65 |
| 79) Naphthalene | 13.507 | 128 | 5874 | 0.069 | ppbv | | 97 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042420.D
Acq On : 28 Apr 2025 11:33
Operator : SY/MD
Sample : Q1665-07
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025

Quant Time: Apr 29 01:34:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

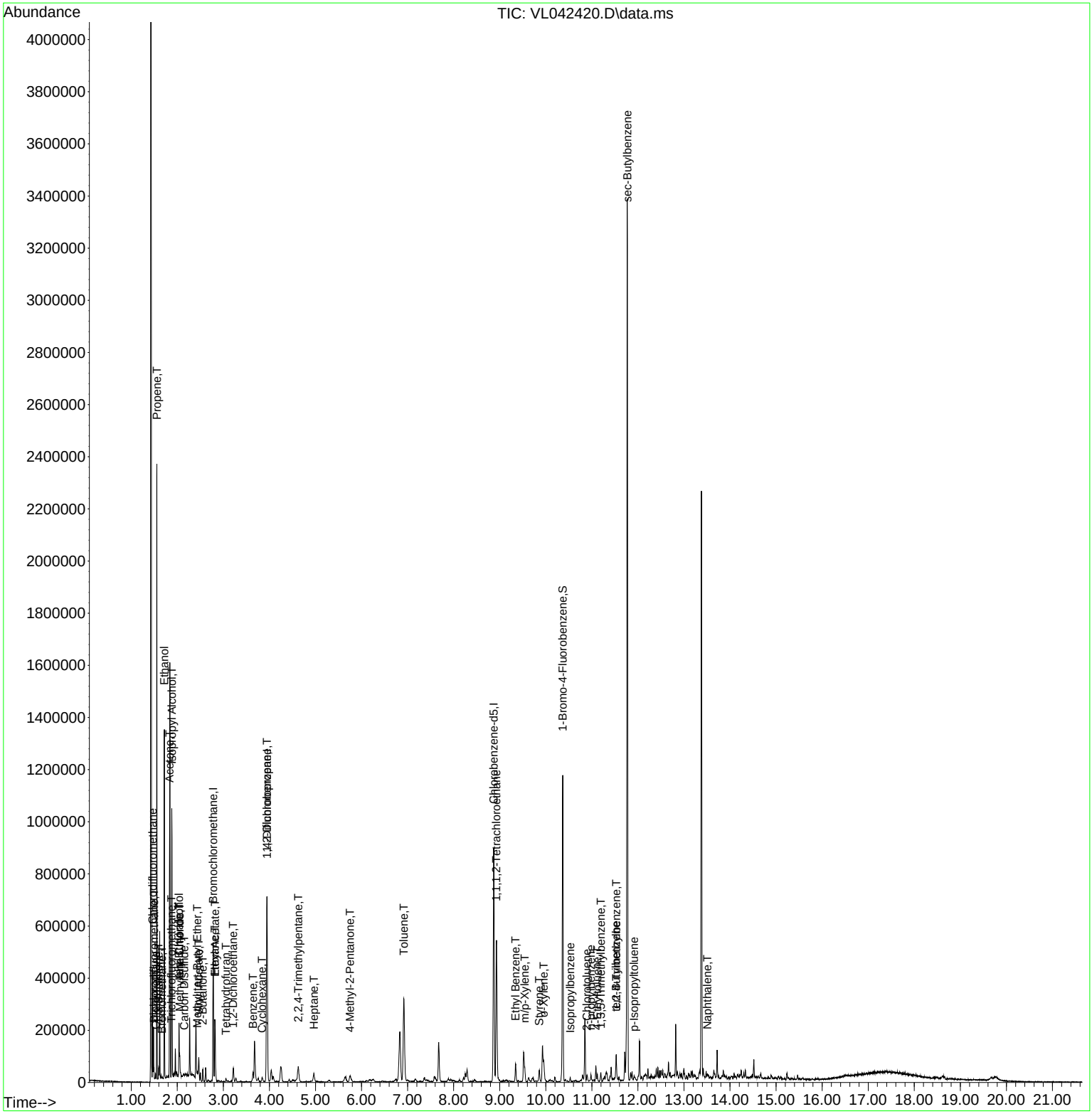
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

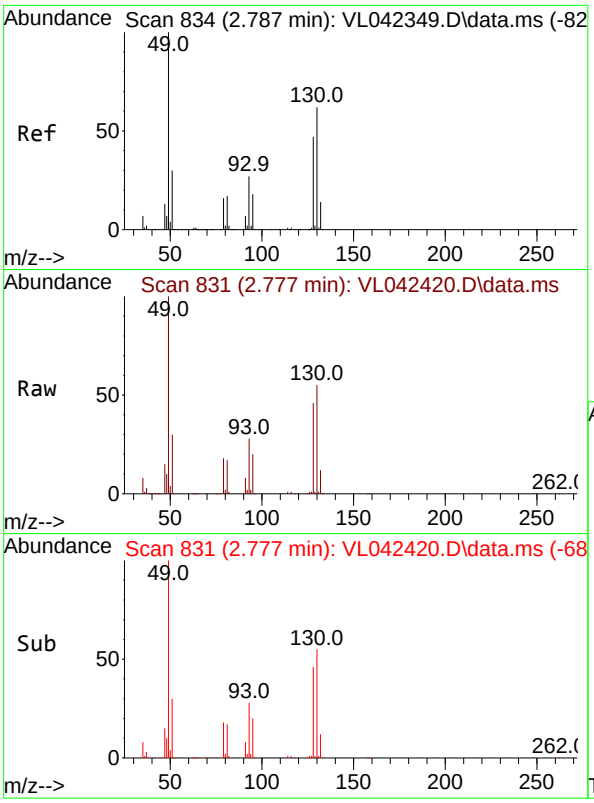
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042420.D
Acq On : 28 Apr 2025 11:33
Operator : SY/MD
Sample : Q1665-07
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025

Quant Time: Apr 29 01:34:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration



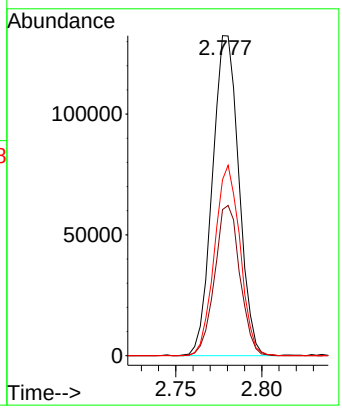


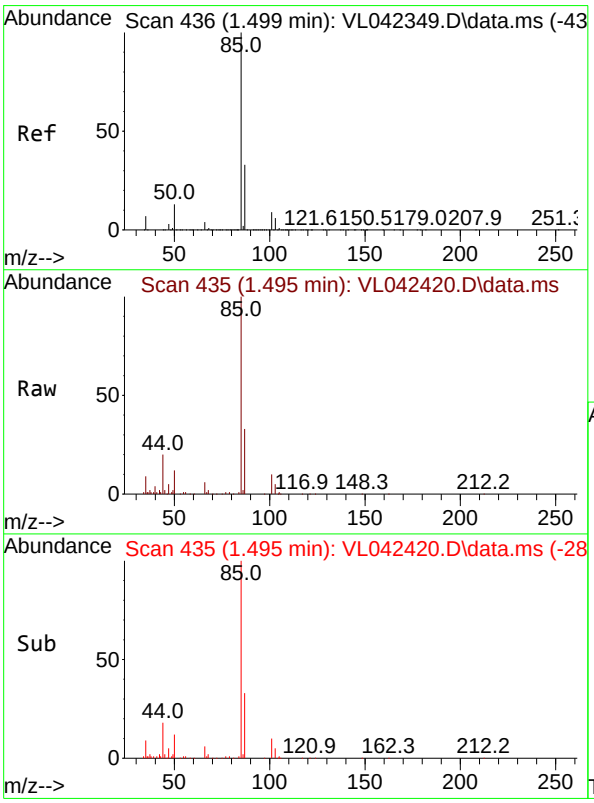

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.777 min Scan# 8
Delta R.T. -0.010 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025

Tgt Ion: 49 Resp: 141186

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 44.9 | 22.8 | 68.4 |
| 130 | 57.5 | 29.3 | 88.0 |

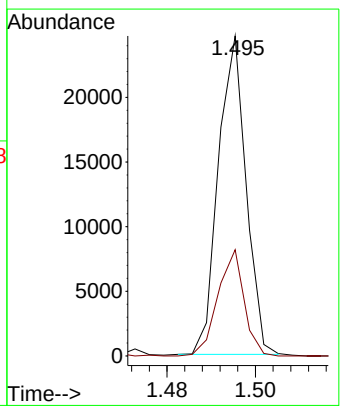


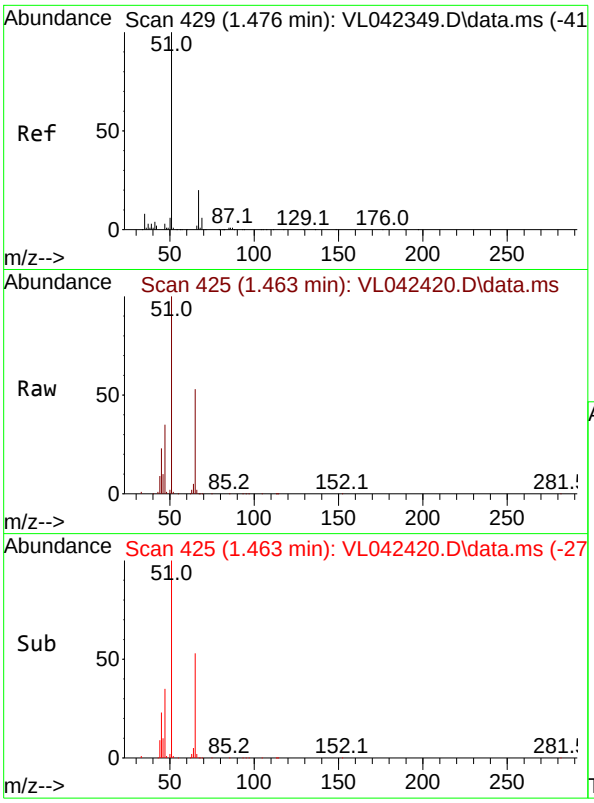




#2
Dichlorodifluoromethane
Concen: 0.429 ppbv
RT: 1.495 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion: 85 Resp: 10705

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.4 | 26.6 | 39.8 |



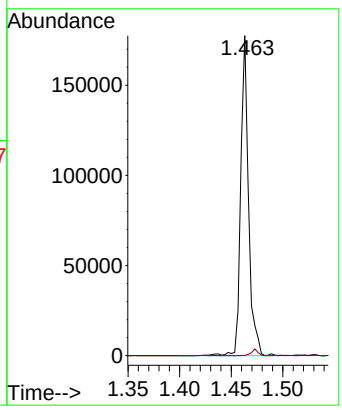


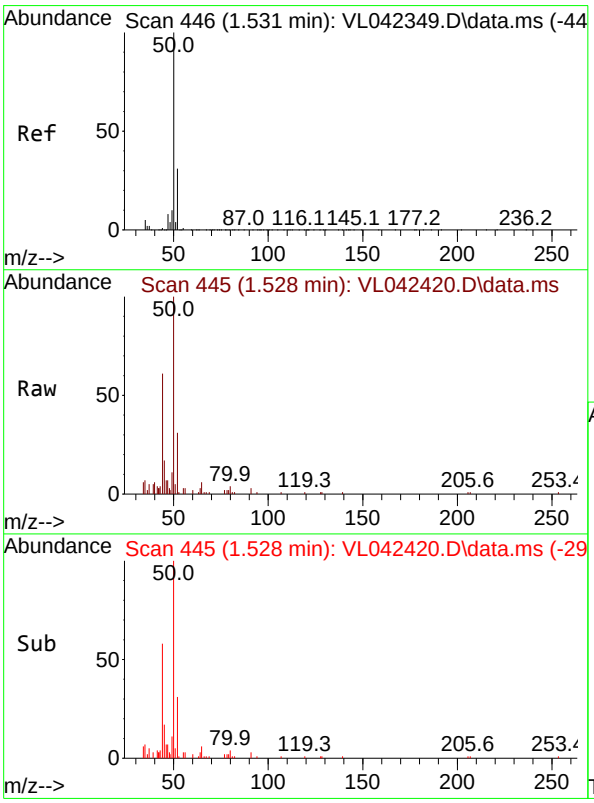

#3
Chlorodifluoromethane
Concen: 3.919 ppbv
RT: 1.463 min Scan# 4
Delta R.T. -0.013 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025

Tgt Ion: 51 Resp: 93097

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 1.9 | 16.2 | 24.4# |

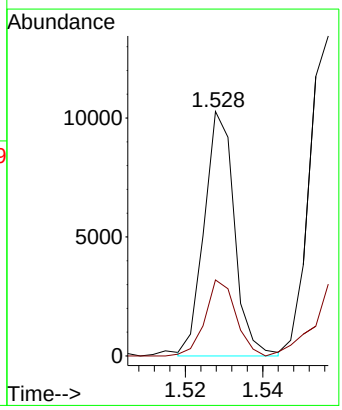


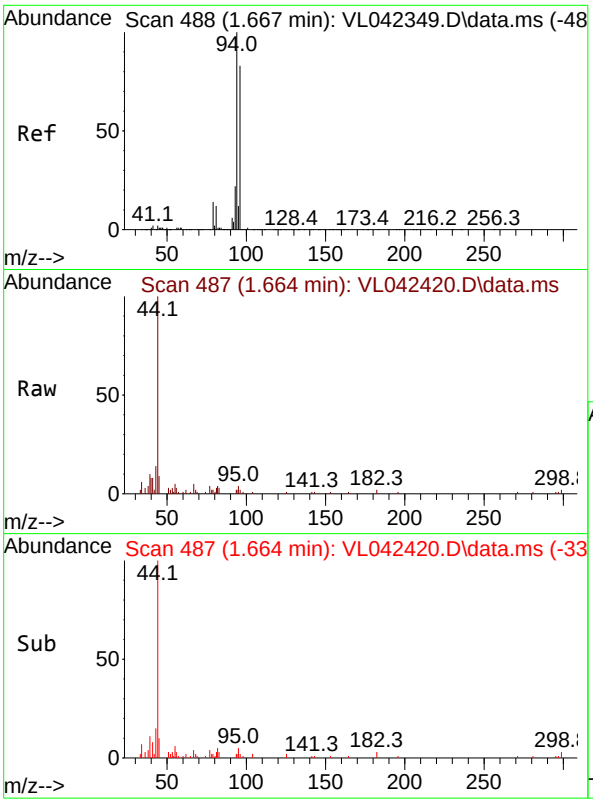




#4
Chloromethane
Concen: 0.564 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.003 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion: 50 Resp: 5568

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 30.2 | 24.7 | 37.1 |



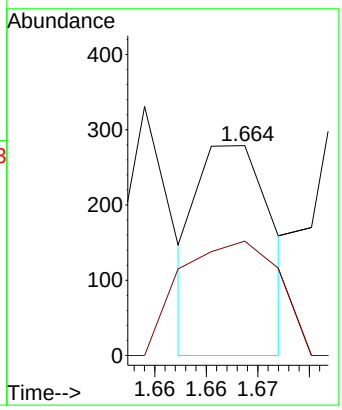


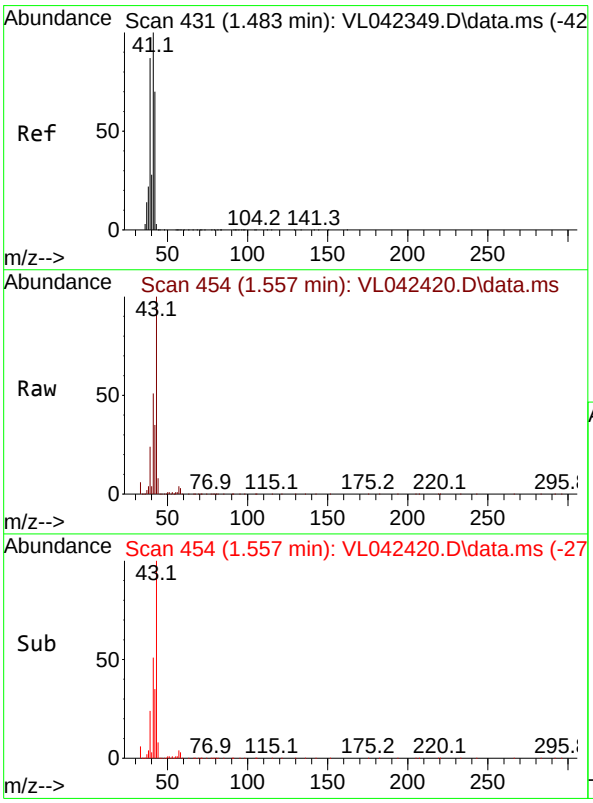

#6
Bromomethane
Concen: 0.030 ppbv
RT: 1.664 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025

Tgt Ion: 94 Resp: 139

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 28.0 | 66.2 | 99.2# |

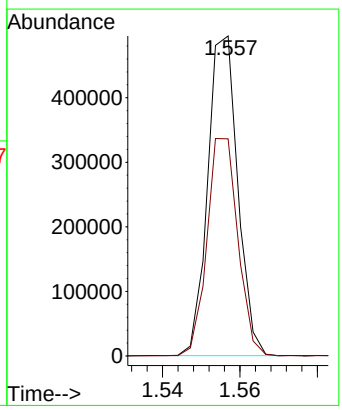


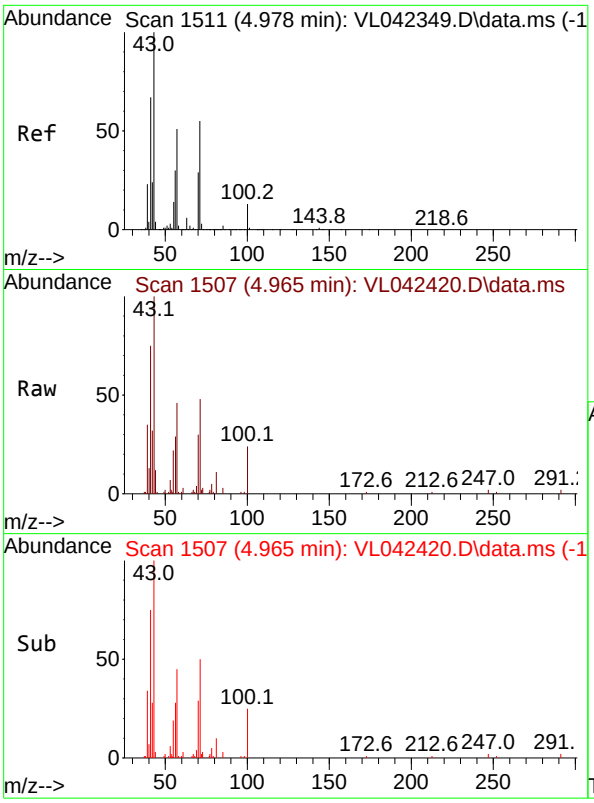




#9
Propene
Concen: 24.687 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.074 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion: 41 Resp: 267054

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 70.1 | 56.2 | 84.4 |



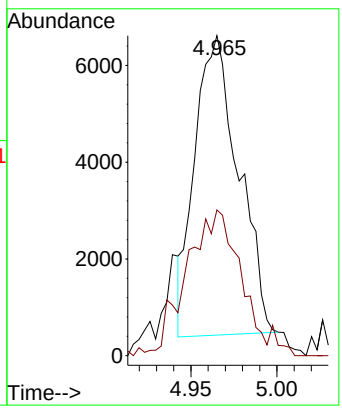


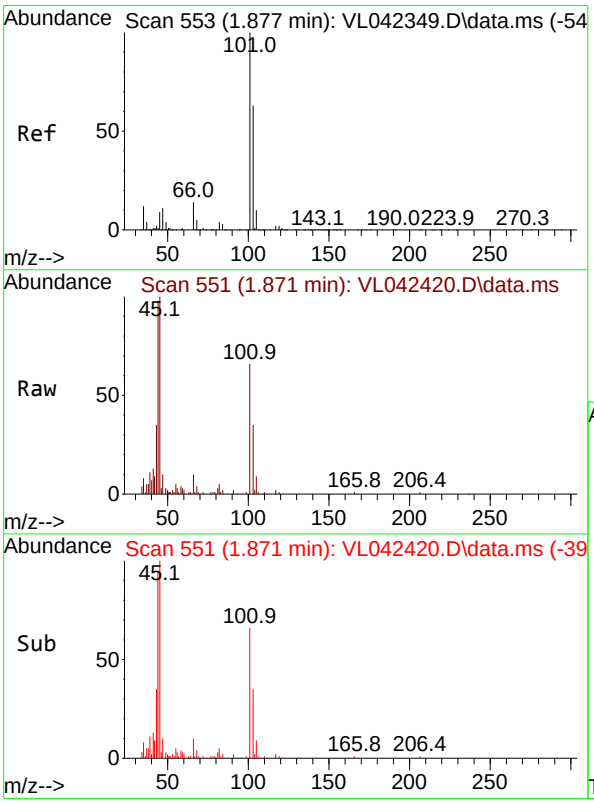

#10
Heptane
Concen: 0.360 ppbv
RT: 4.965 min Scan# 1
Delta R.T. -0.013 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025

Tgt Ion: 43 Resp: 10944

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 63.6 | 39.9 | 59.9# |

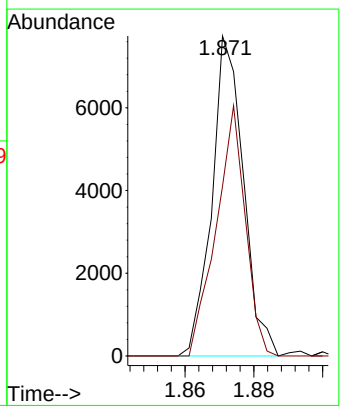


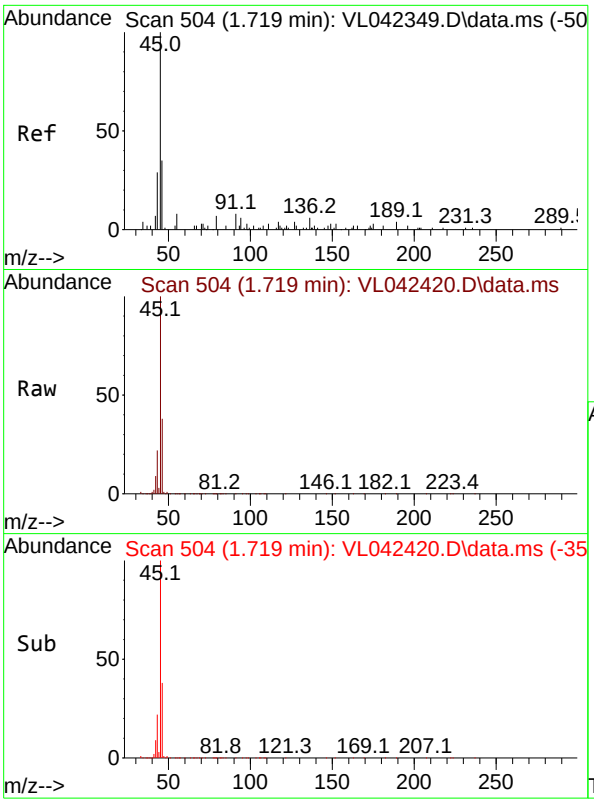




#11
Trichlorofluoromethane
Concen: 0.208 ppbv
RT: 1.871 min Scan# 551
Delta R.T. -0.007 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion:101 Resp: 4925

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 53.0 | 50.1 | 75.1 |



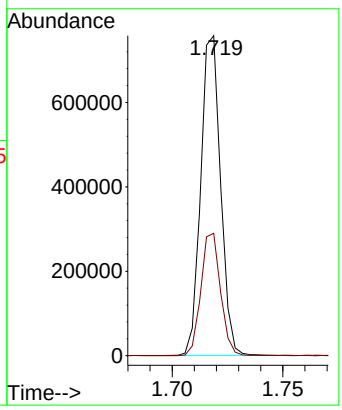


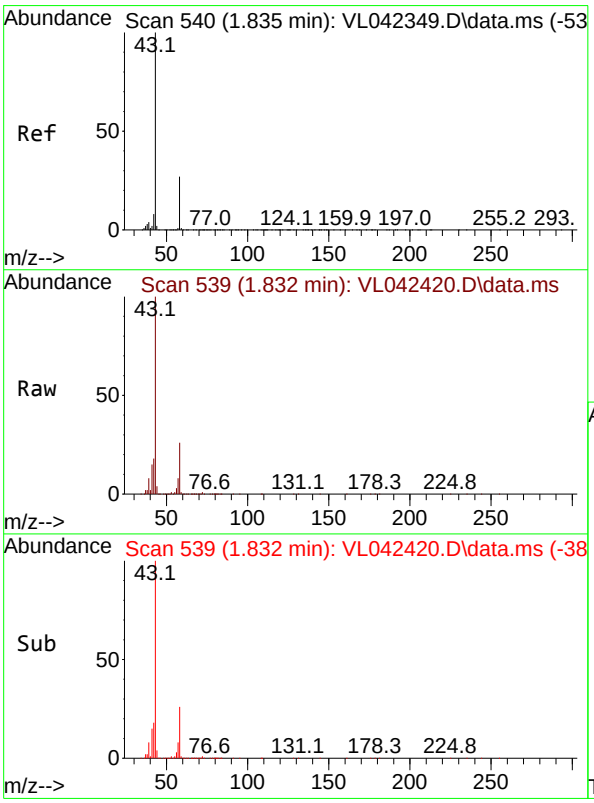

#13
Ethanol
Concen: 274.580 ppbv
RT: 1.719 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025

Tgt Ion: 45 Resp: 472110

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 38.1 | 21.9 | 87.7 |

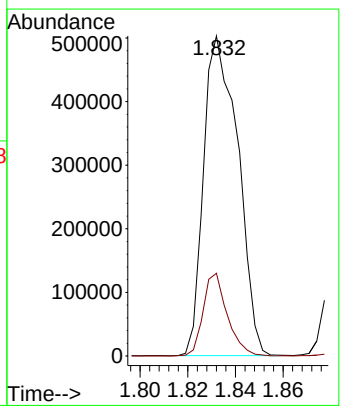


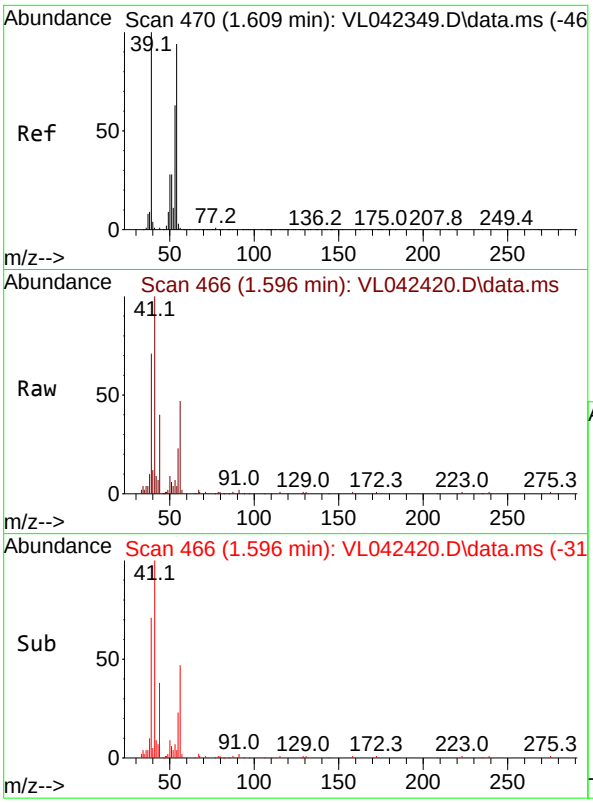




#15
Acetone
Concen: 21.727 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.003 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion: 43 Resp: 502160

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 18.3 | 22.4 | 33.6# |



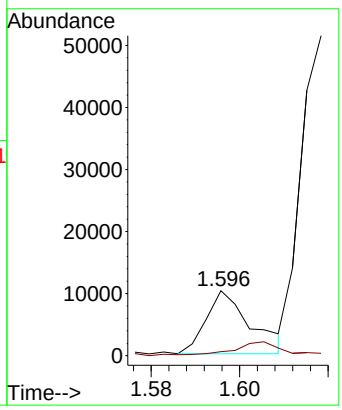


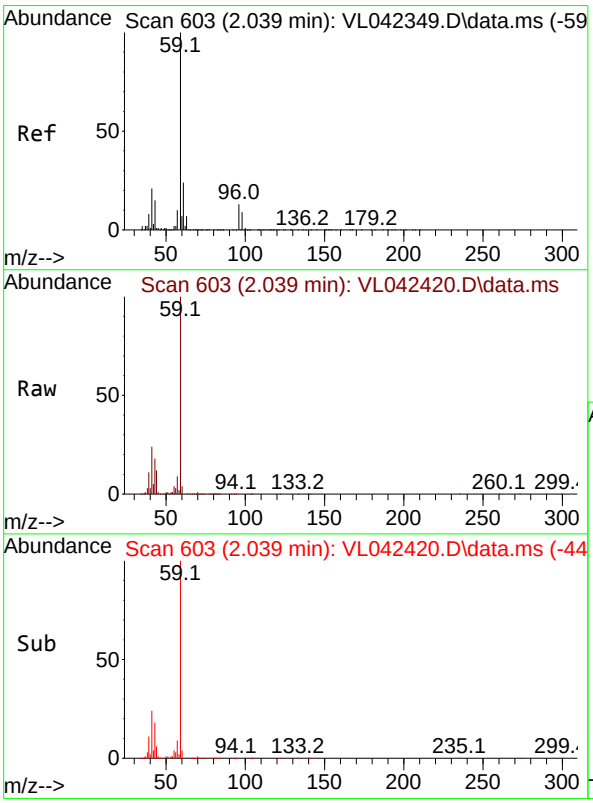

#16
1,3-Butadiene
Concen: 0.641 ppbv
RT: 1.596 min Scan# 4
Delta R.T. -0.013 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025

Tgt Ion: 39 Resp: 7088

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 30.3 | 64.9 | 97.3# |

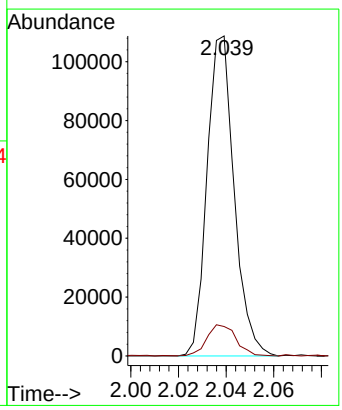


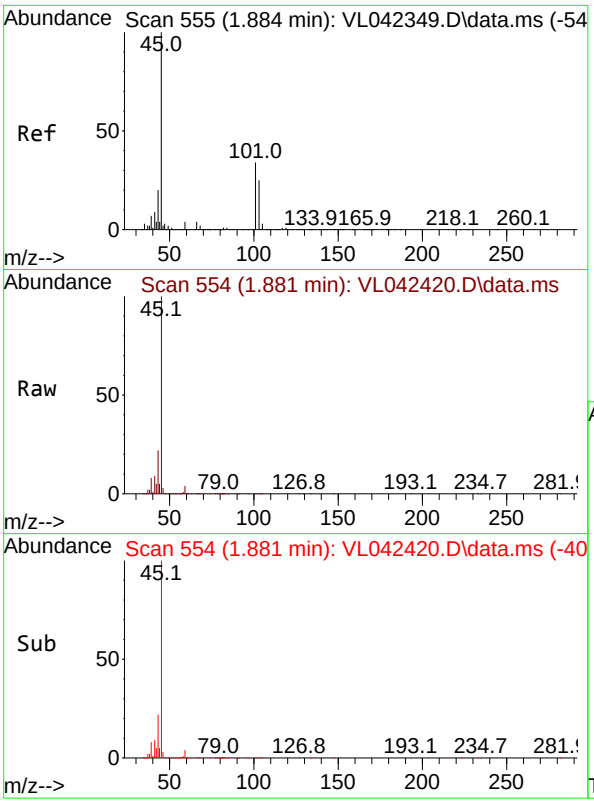




#17
tert-Butyl alcohol
Concen: 2.999 ppbv
RT: 2.039 min Scan# 603
Delta R.T. -0.000 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion: 59 Resp: 85888

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.9 | 8.7 | 13.1 |



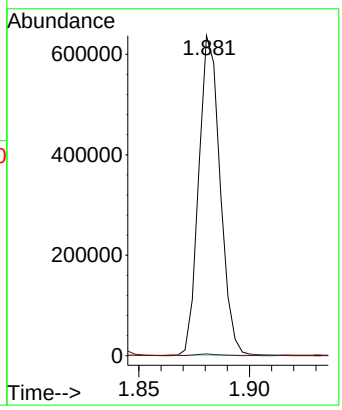


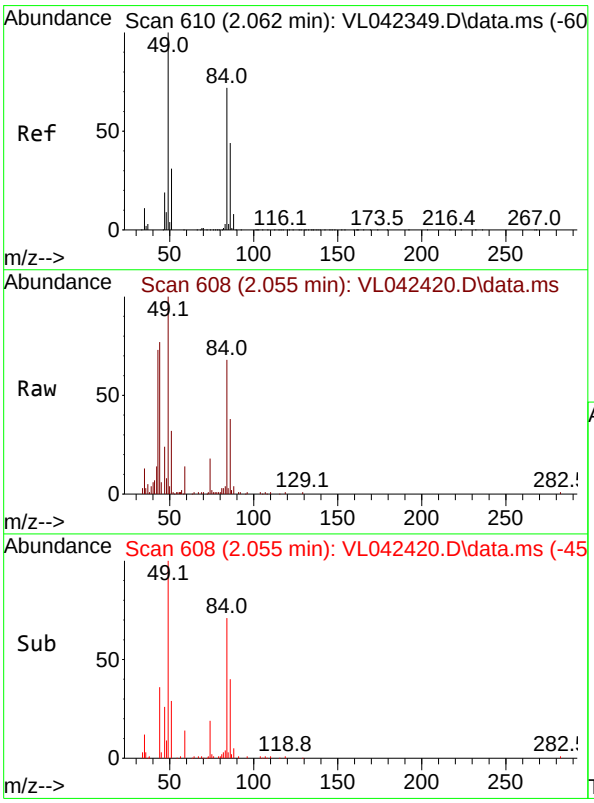

#19
Isopropyl Alcohol
Concen: 33.369 ppbv
RT: 1.881 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025

Tgt Ion: 45 Resp: 428440

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 21.4 | 34.5 | 51.7# |

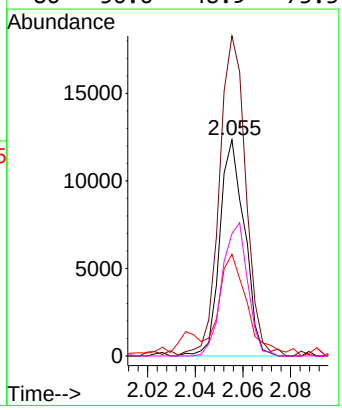


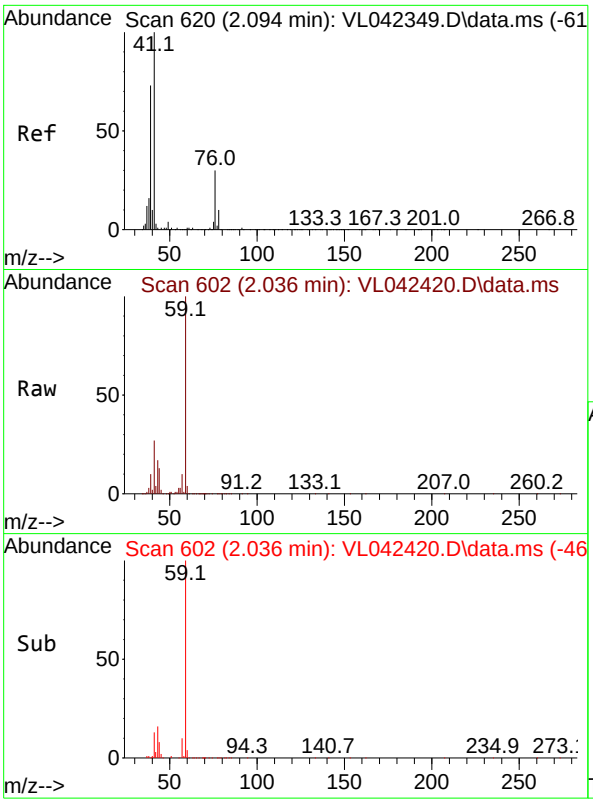




#20
Methylene Chloride
Concen: 0.985 ppbv
RT: 2.055 min Scan# 608
Delta R.T. -0.007 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion: 84 Resp: 8914

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 147.6 | 111.6 | 167.4 |
| 51 | 44.3 | 35.1 | 52.7 |
| 86 | 56.6 | 48.9 | 73.3 |



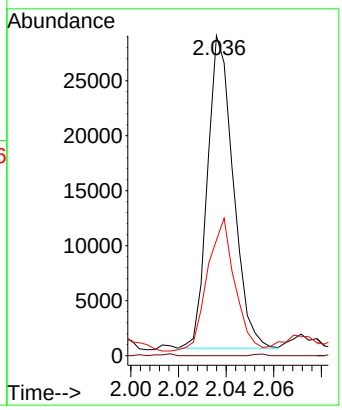


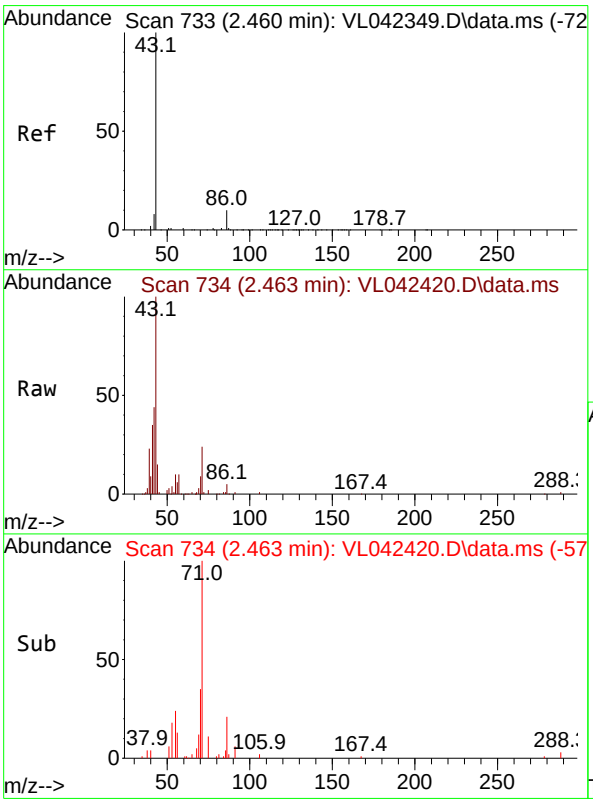

#21
Allyl Chloride
Concen: 1.333 ppbv
RT: 2.036 min Scan# 6
Delta R.T. -0.058 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025

Tgt Ion: 41 Resp: 21270

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 5.8 | 24.8 | 37.2# |
| 39 | 47.2 | 60.6 | 90.8# |

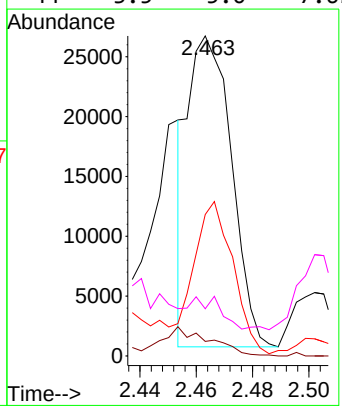


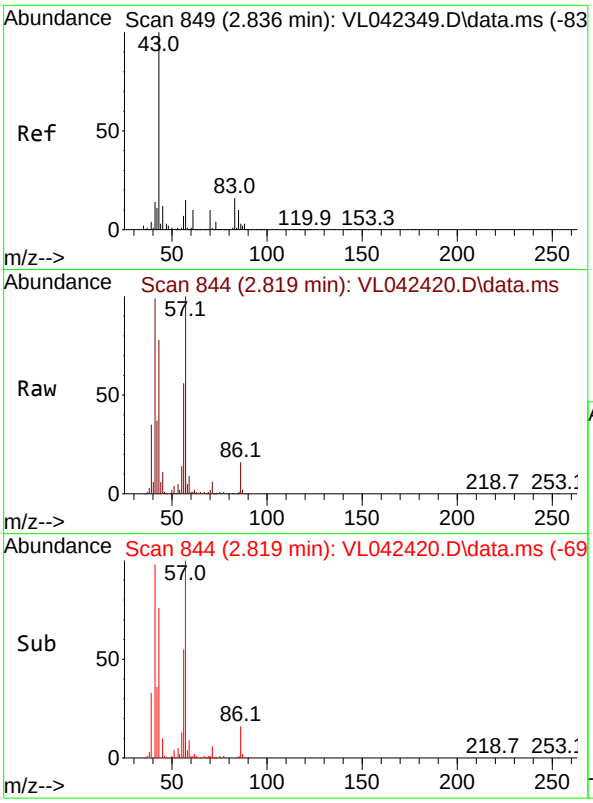




#23
Vinyl Acetate
Concen: 2.979 ppbv
RT: 2.463 min Scan# 734
Delta R.T. 0.003 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion: 43 Resp: 27871

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 4.7 | 6.5 | 9.7# |
| 42 | 43.7 | 7.8 | 11.8# |
| 44 | 3.5 | 5.0 | 7.6# |



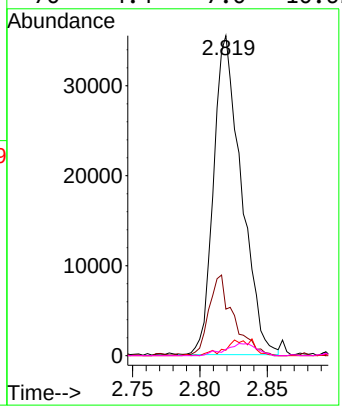


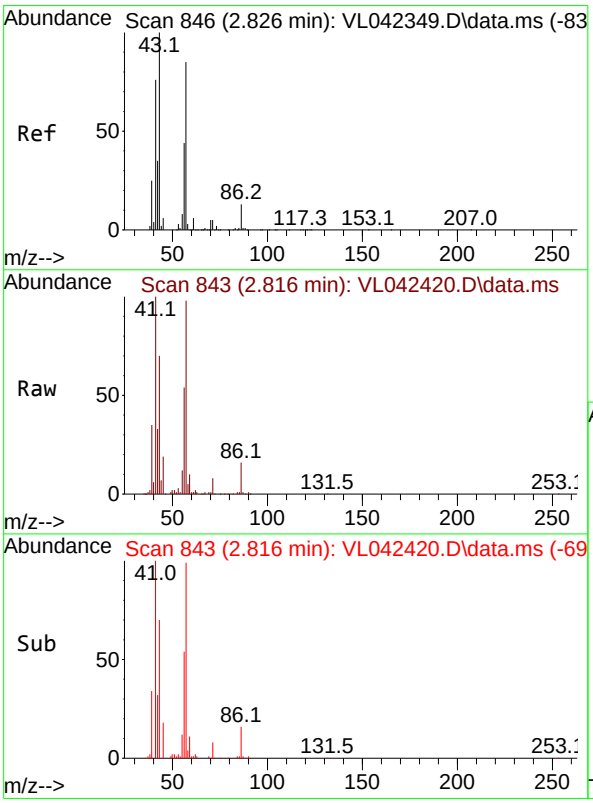

#25
Ethyl Acetate
Concen: 0.891 ppbv
RT: 2.819 min Scan# 84
Delta R.T. -0.016 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025

Tgt Ion: 43 Resp: 50759

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 22.9 | 8.3 | 12.5# |
| 61 | 5.2 | 7.3 | 10.9# |
| 70 | 4.4 | 7.0 | 10.6# |

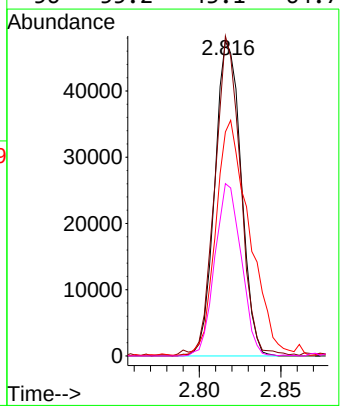


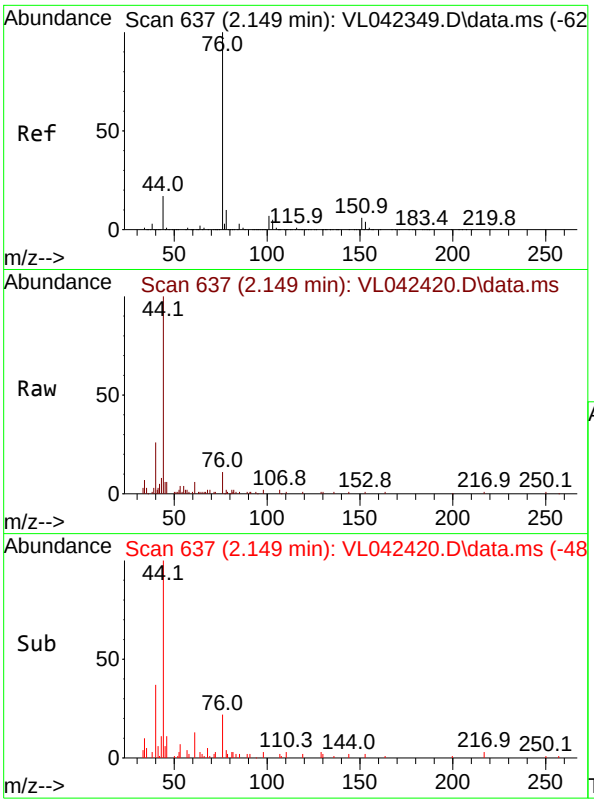




#26
Hexane
Concen: 2.306 ppbv
RT: 2.816 min Scan# 843
Delta R.T. -0.010 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion: 57 Resp: 53184

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 100.2 | 77.9 | 116.9 |
| 43 | 97.0 | 208.4 | 312.6# |
| 56 | 55.2 | 43.1 | 64.7 |



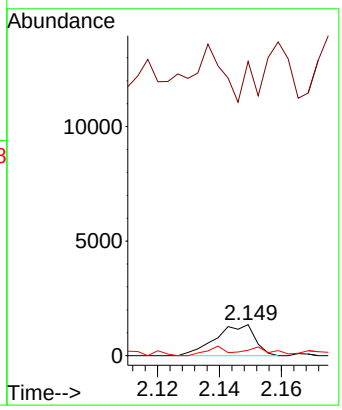


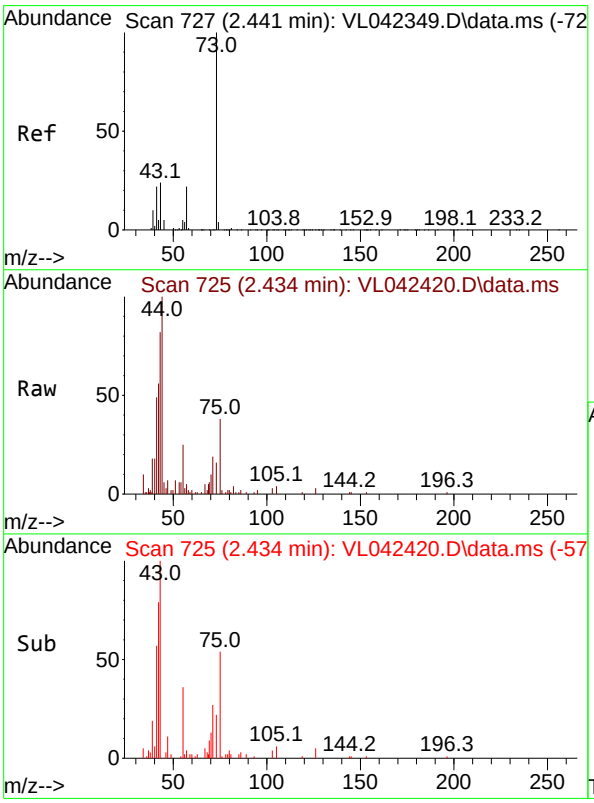

#27
Carbon Disulfide
Concen: 0.048 ppbv
RT: 2.149 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025

Tgt Ion: 76 Resp: 1195

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 0.0 | 15.5 | 23.3# |
| 78 | 45.8 | 9.3 | 13.9# |

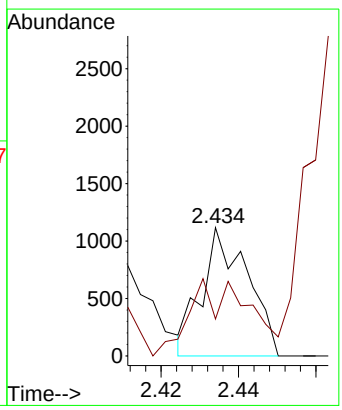


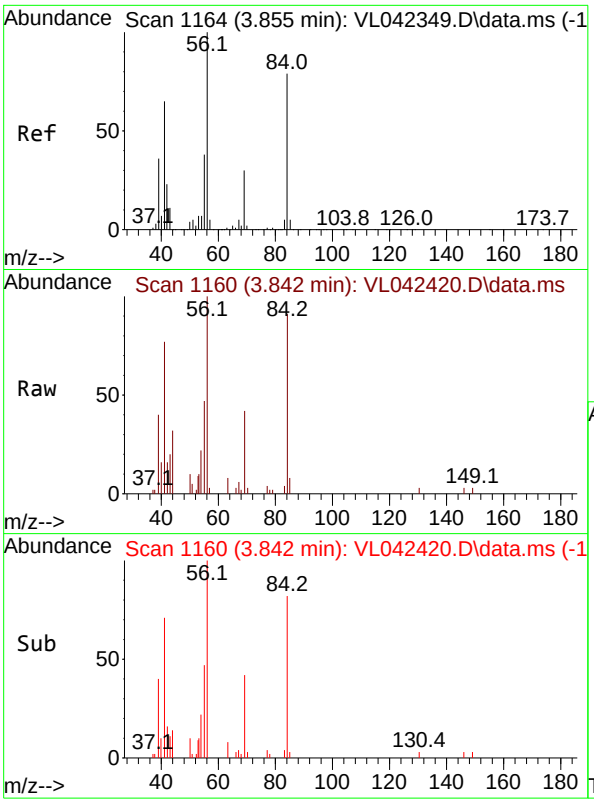




#28
Methyl tert-Butyl Ether
Concen: 0.061 ppbv
RT: 2.434 min Scan# 725
Delta R.T. -0.007 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion: 73 Resp: 916

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 420.7 | 21.3 | 31.9# |



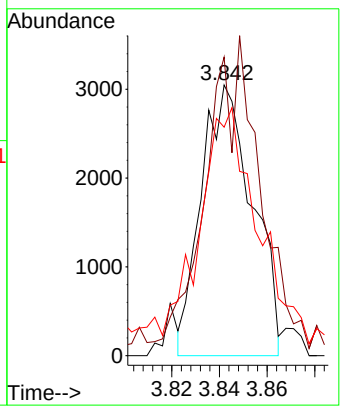


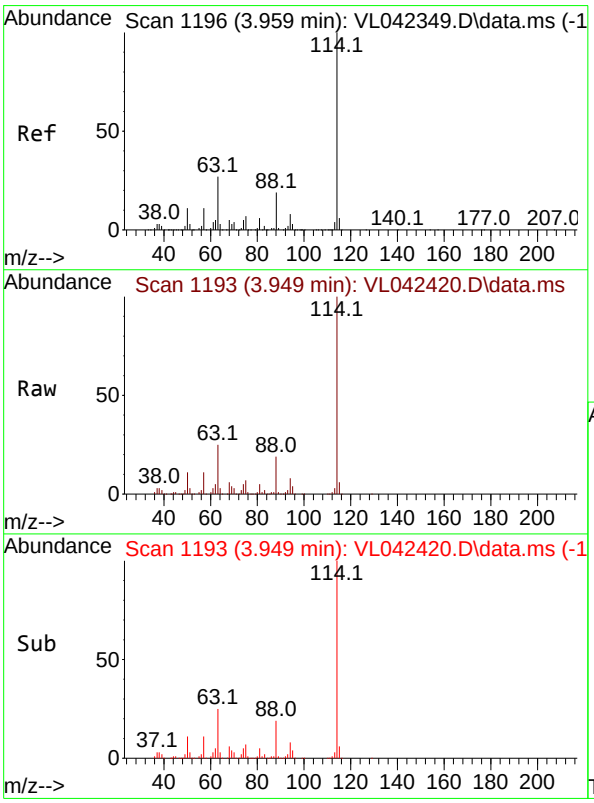

#30
Cyclohexane
Concen: 0.244 ppbv
RT: 3.842 min Scan# 11
Delta R.T. -0.013 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025

Tgt Ion: 84 Resp: 4557

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 131.8 | 101.0 | 151.4 |
| 41 | 104.1 | 67.4 | 101.0# |

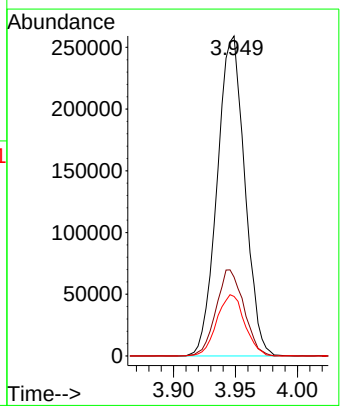


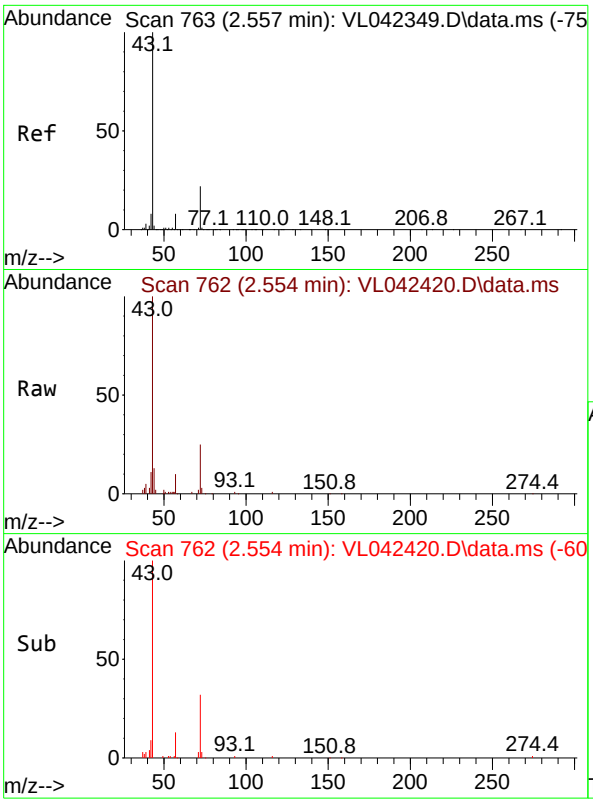




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. -0.010 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion:114 Resp: 402115

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 27.1 | 21.8 | 32.6 |
| 88 | 19.4 | 15.5 | 23.3 |



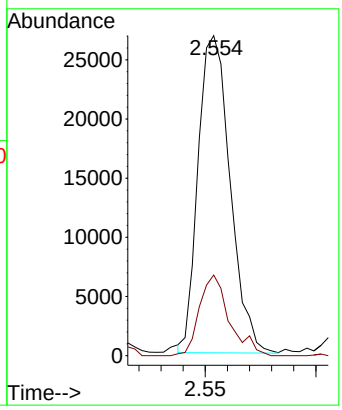


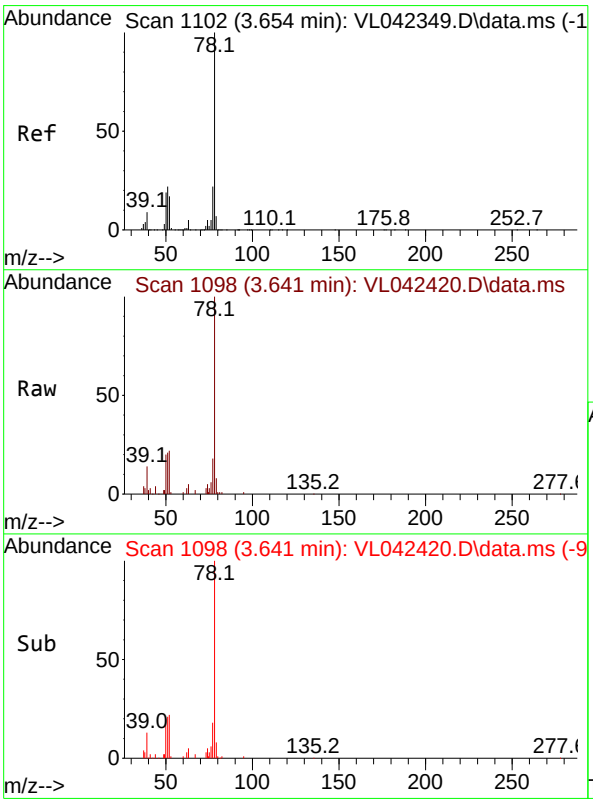

#34
2-Butanone
Concen: 0.848 ppbv
RT: 2.554 min Scan# 7
Delta R.T. -0.003 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025

Tgt Ion: 43 Resp: 26974

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 23.7 | 18.2 | 27.2 |

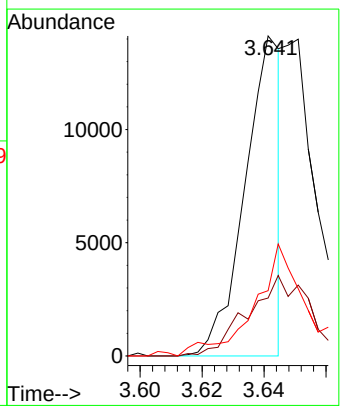


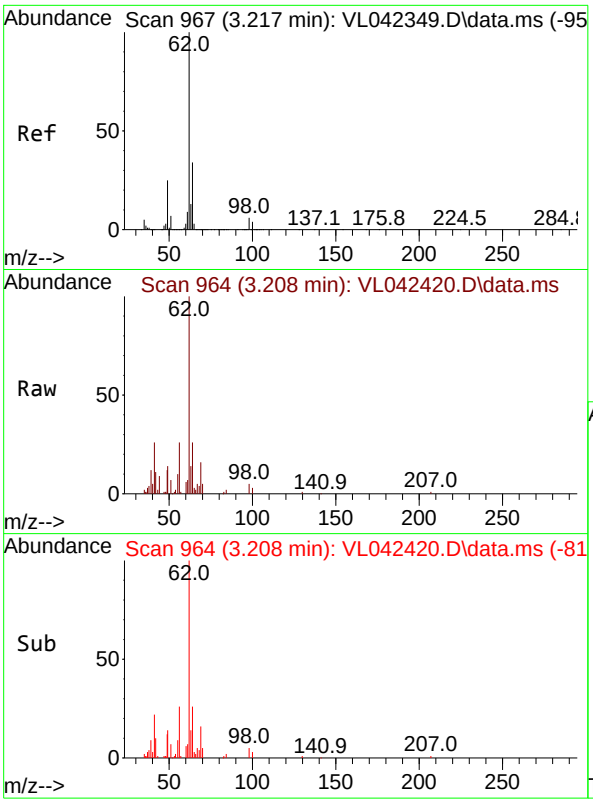




#36
Benzene
Concen: 0.262 ppbv
RT: 3.641 min Scan# 1098
Delta R.T. -0.013 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion: 78 Resp: 11344

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 18.1 | 17.4 | 26.0 |
| 50 | 20.4 | 15.5 | 23.3 |



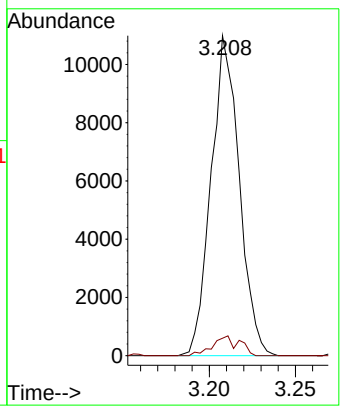


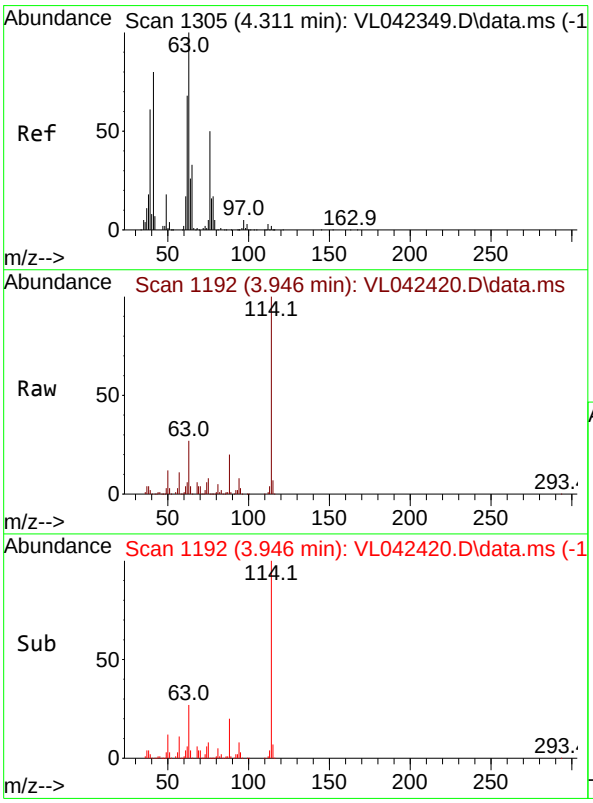

#37
1,2-Dichloroethane
Concen: 0.480 ppbv
RT: 3.208 min Scan# 9
Delta R.T. -0.010 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025

Tgt Ion: 62 Resp: 12506

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 5.9 | 5.1 | 7.7 |

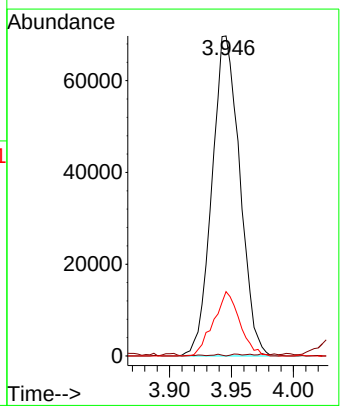


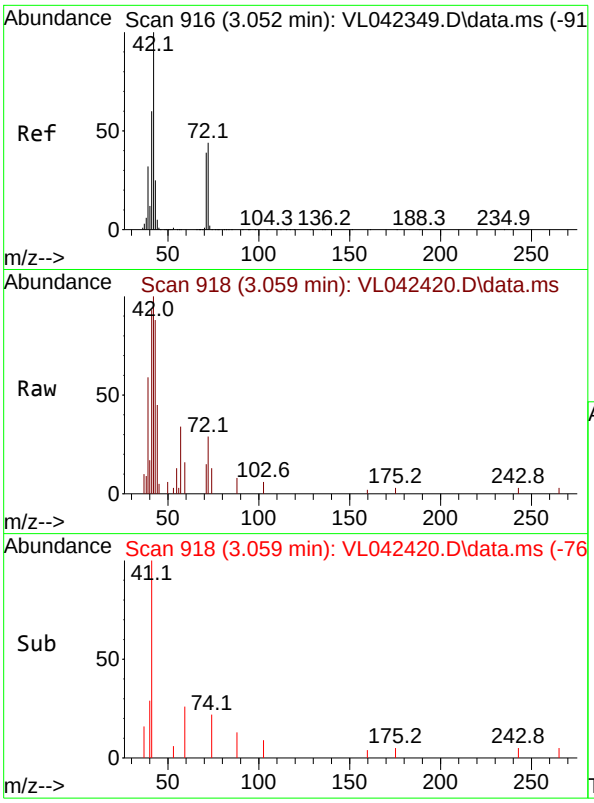




#39
1,2-Dichloropropane
Concen: 6.746 ppbv
RT: 3.946 min Scan# 1192
Delta R.T. -0.366 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion: 63 Resp: 109025

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 0.0 | 64.2 | 96.2# |
| 62 | 20.1 | 54.3 | 81.5# |



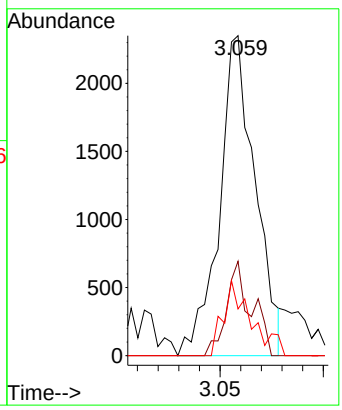


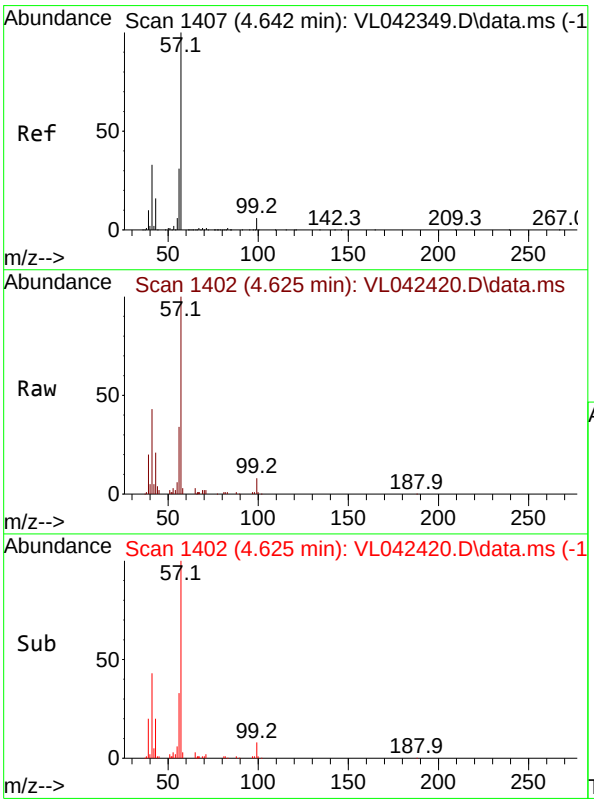

#41
Tetrahydrofuran
Concen: 0.153 ppbv
RT: 3.059 min Scan# 91
Delta R.T. 0.006 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025

Tgt Ion: 42 Resp: 2829

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 20.6 | 32.3 | 48.5# |
| 71 | 18.3 | 31.4 | 47.2# |

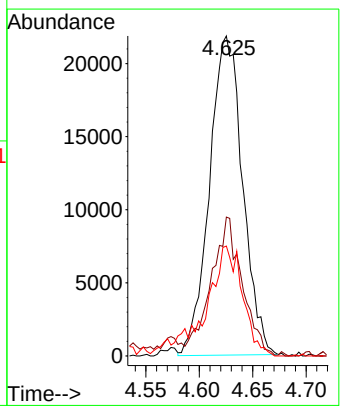


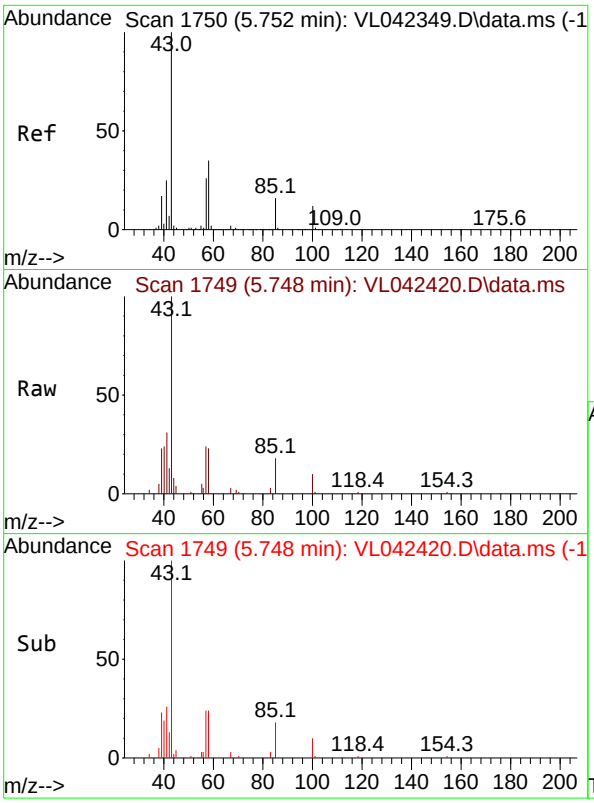




#44
2,2,4-Trimethylpentane
Concen: 0.631 ppbv
RT: 4.625 min Scan# 1402
Delta R.T. -0.016 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion: 57 Resp: 47245

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 44.6 | 27.2 | 40.8# |
| 56 | 38.4 | 25.7 | 38.5 |



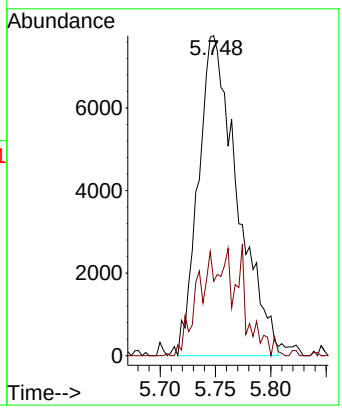


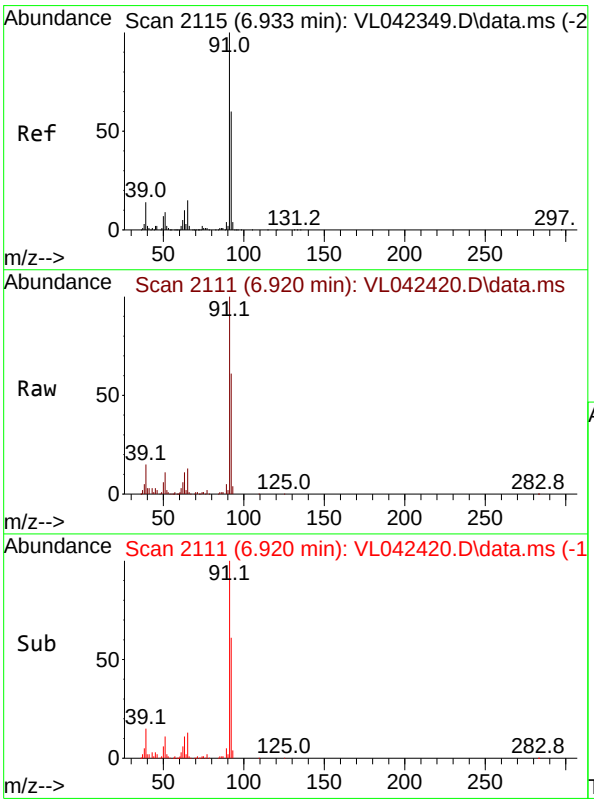

#50
4-Methyl-2-Pentanone
Concen: 0.359 ppbv
RT: 5.748 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025

Tgt Ion: 43 Resp: 18997

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 35.5 | 28.6 | 43.0 |

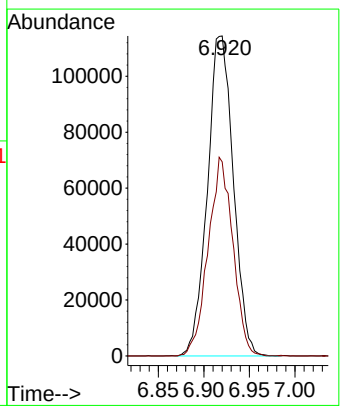


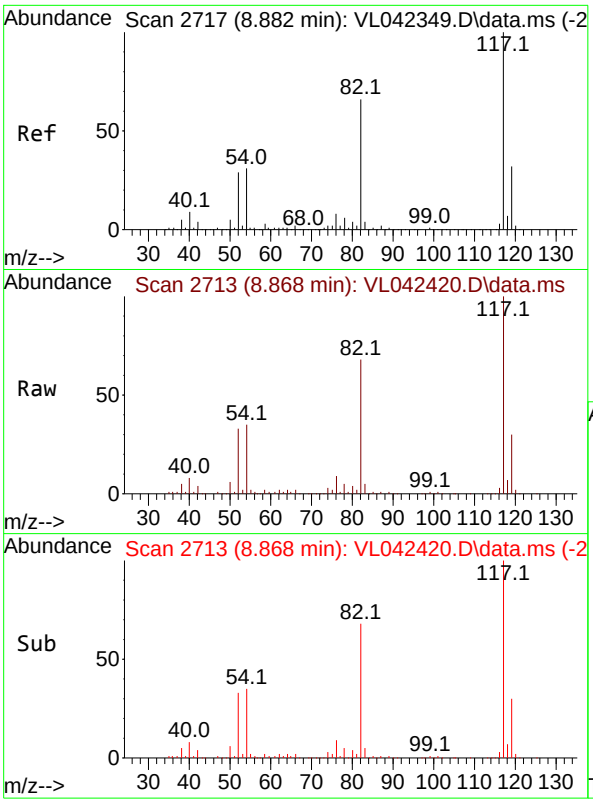




#53
Toluene
Concen: 4.360 ppbv
RT: 6.920 min Scan# 2111
Delta R.T. -0.013 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion: 91 Resp: 226903

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 59.2 | 48.2 | 72.4 |



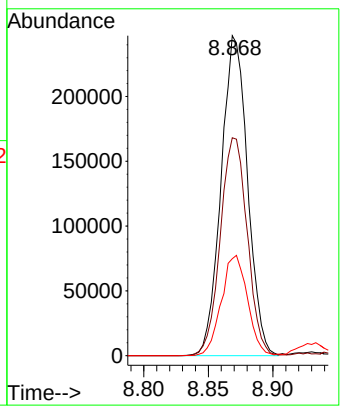


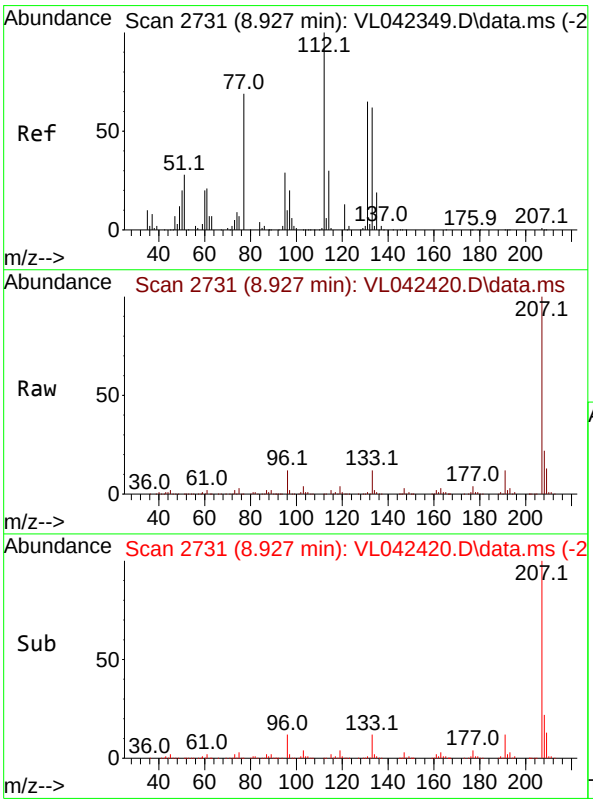

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.868 min Scan# 2
Delta R.T. -0.013 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025

Tgt Ion:117 Resp: 352885

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 69.3 | 57.8 | 86.6 |
| 119 | 31.0 | 25.2 | 37.8 |

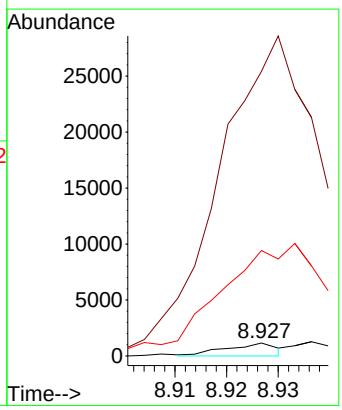


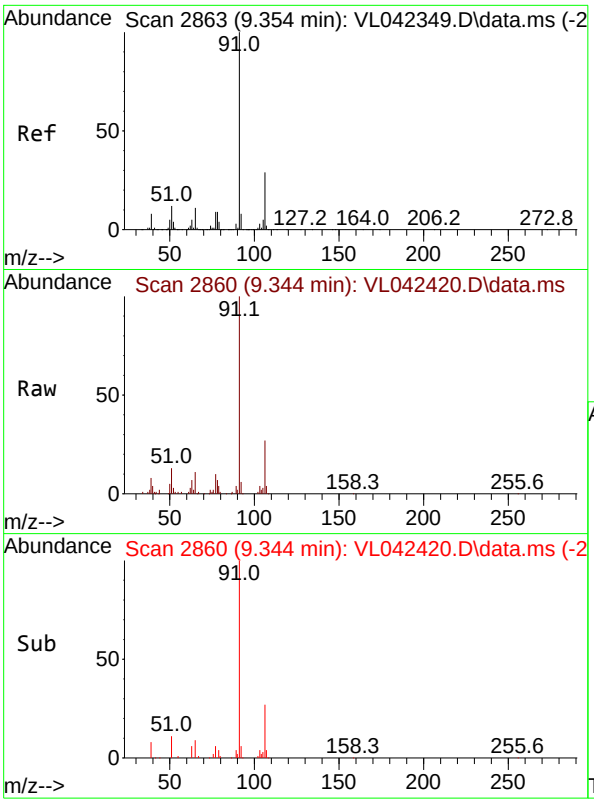




#56
1,1,1,2-Tetrachloroethane
Concen: 0.037 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. -0.000 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion:131 Resp: 786

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 0.0 | 78.3 | 117.5# |
| 119 | 0.0 | 48.7 | 73.1# |



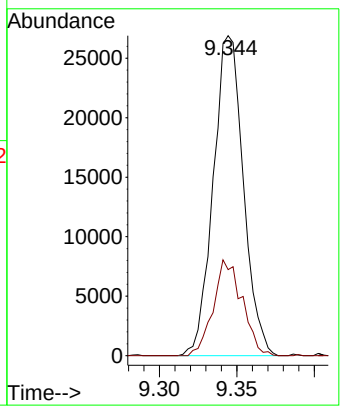


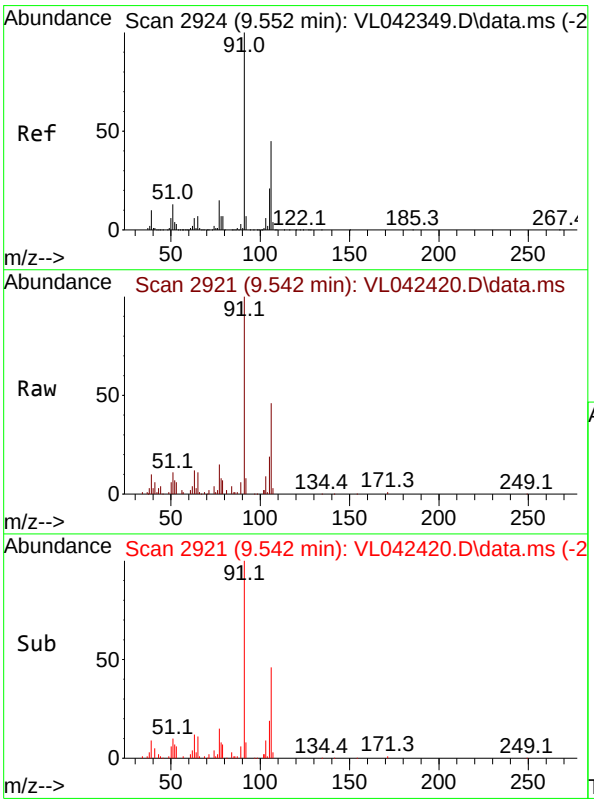

#58
Ethyl Benzene
Concen: 0.521 ppbv
RT: 9.344 min Scan# 2
Delta R.T. -0.010 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025

Tgt Ion: 91 Resp: 36433

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 26.9 | 23.0 | 34.4 |

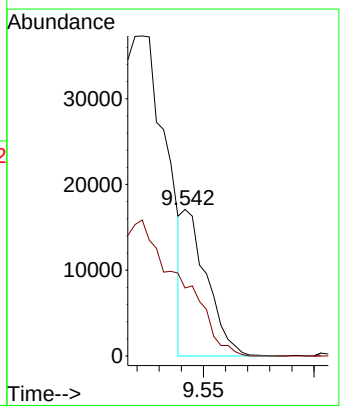


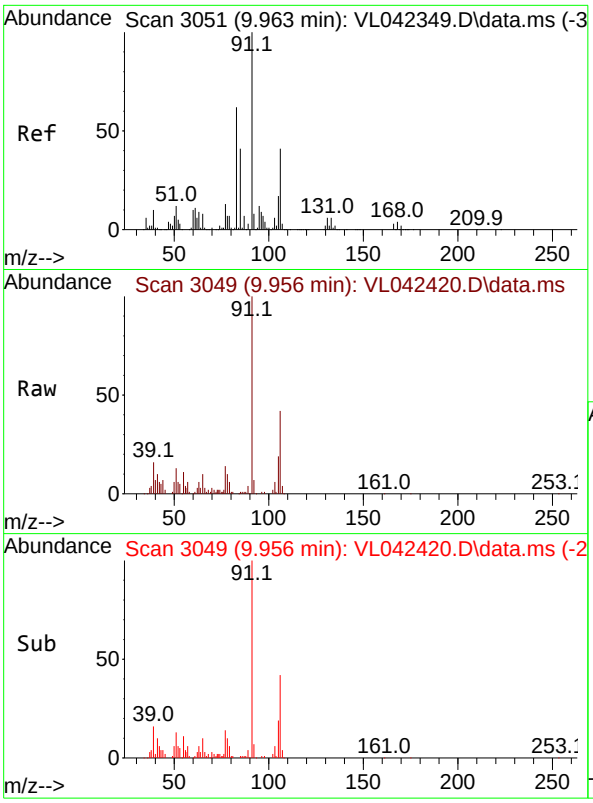




#59
m/p-Xylene
Concen: 0.234 ppbv
RT: 9.542 min Scan# 2921
Delta R.T. -0.010 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion: 91 Resp: 13197

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 0.0 | 35.4 | 53.2# |



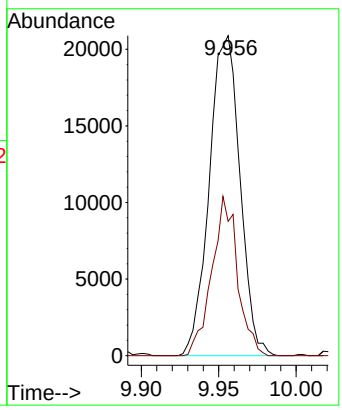


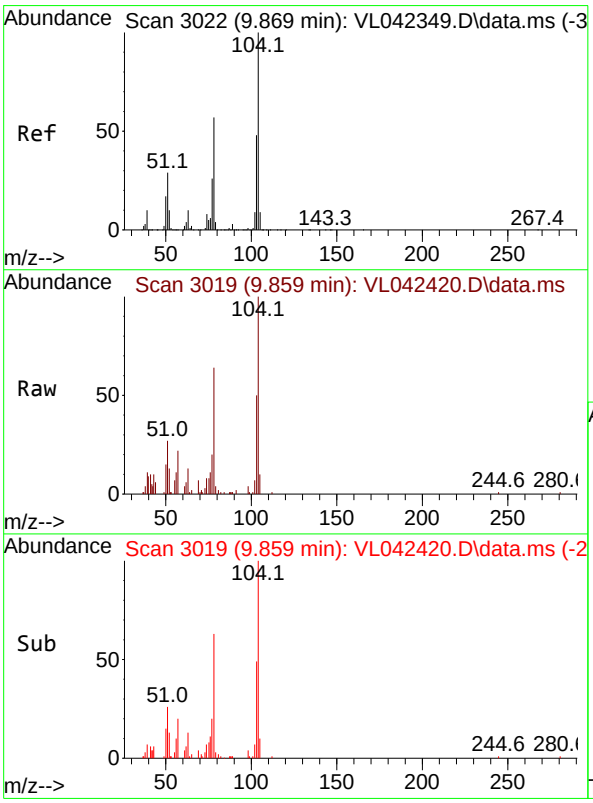

#60
o-Xylene
Concen: 0.508 ppbv
RT: 9.956 min Scan# 3
Delta R.T. -0.007 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025

Tgt Ion: 91 Resp: 28805

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 41.5 | 21.1 | 63.4 |

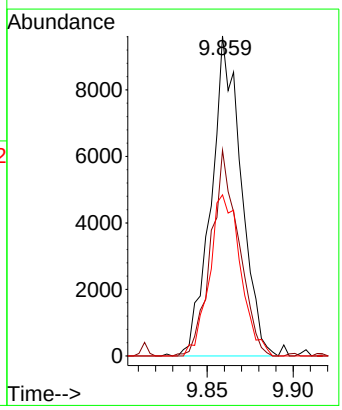


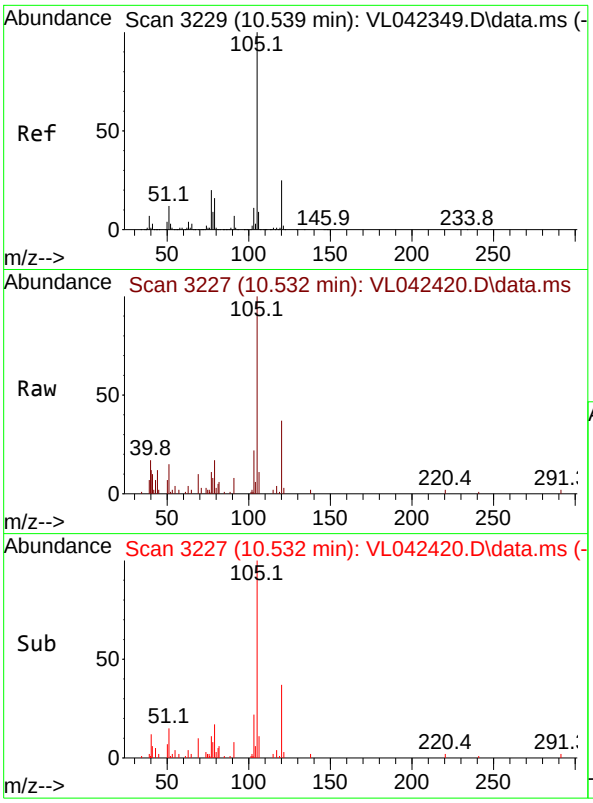




#61
Styrene
Concen: 0.430 ppbv
RT: 9.859 min Scan# 3019
Delta R.T. -0.010 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion:104 Resp: 11652

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 59.6 | 44.6 | 66.8 |
| 103 | 52.4 | 37.4 | 56.0 |



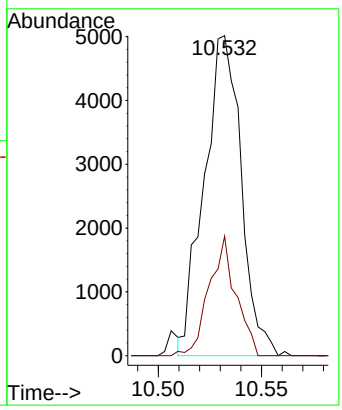


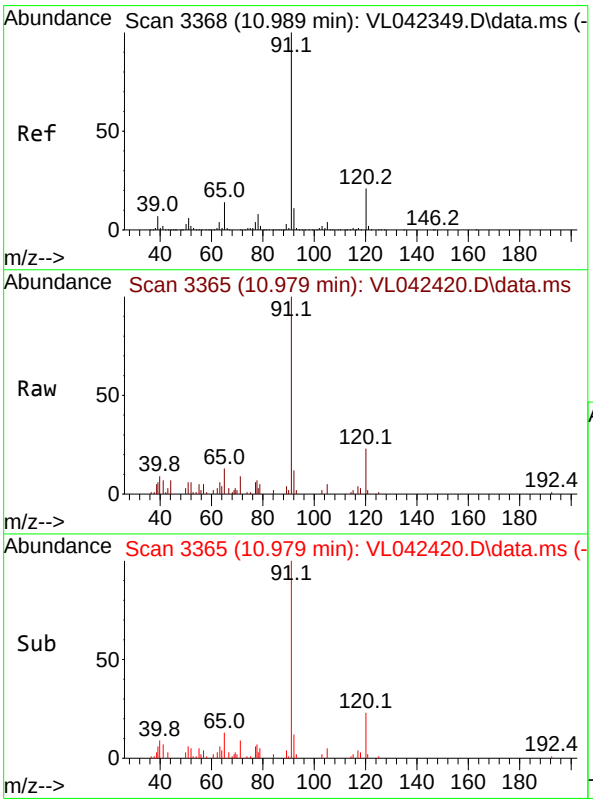

#62
Isopropylbenzene
Concen: 0.075 ppbv
RT: 10.532 min Scan# 3
Delta R.T. -0.007 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025

Tgt Ion:105 Resp: 6243

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 27.1 | 19.8 | 29.8 |

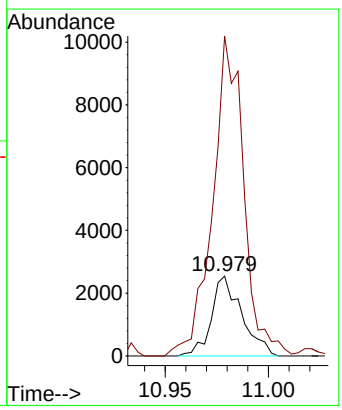


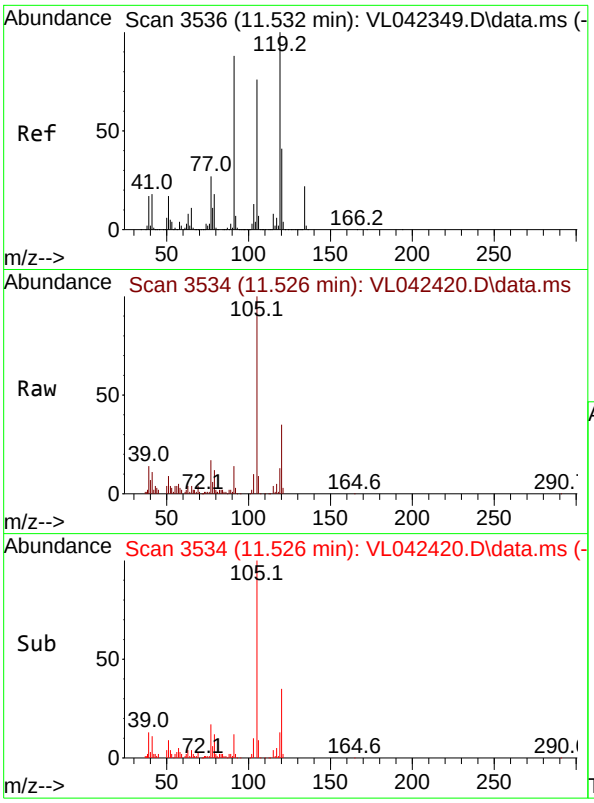




#64
n-propylbenzene
Concen: 0.124 ppbv
RT: 10.979 min Scan# 3365
Delta R.T. -0.010 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion:120 Resp: 2601

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 415.6 | 392.4 | 588.6 |



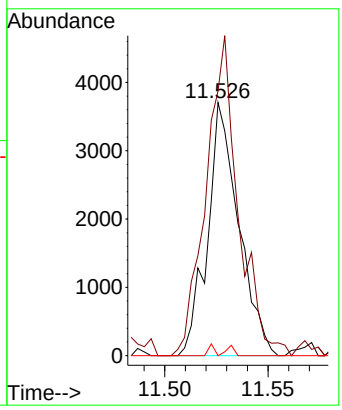


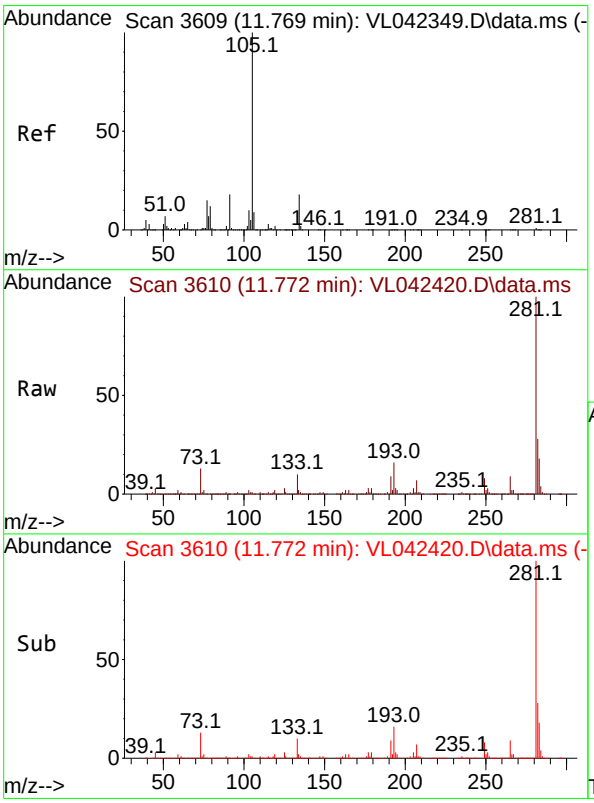

#65
tert-Butylbenzene
Concen: 0.051 ppbv
RT: 11.526 min Scan# 3
Delta R.T. -0.007 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025

Tgt Ion:119 Resp: 3906

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 134.7 | 74.6 | 111.8# |
| 134 | 0.0 | 18.8 | 28.2# |

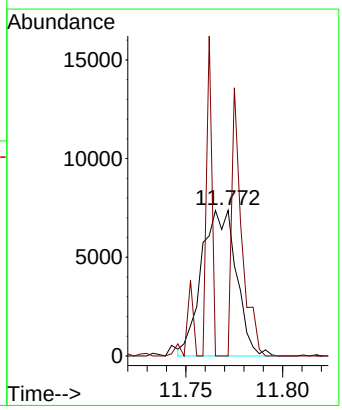


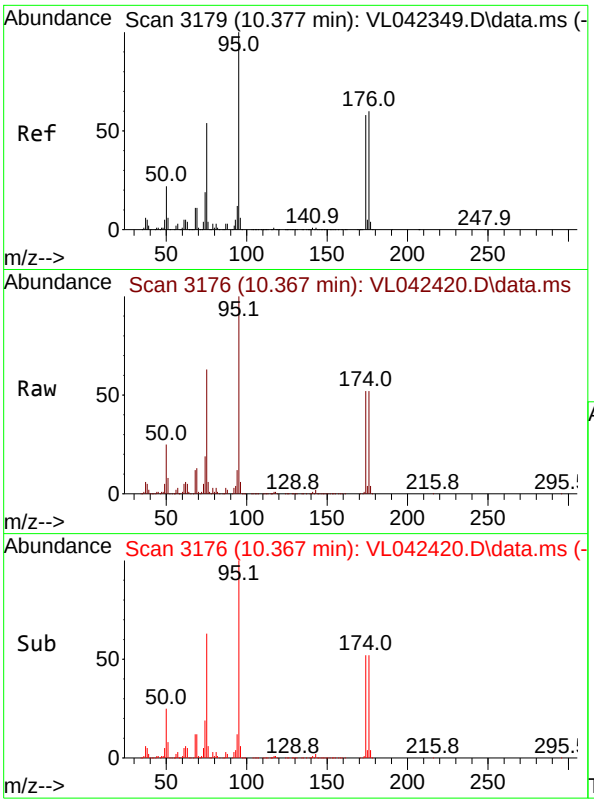




#67
sec-Butylbenzene
Concen: 0.087 ppbv
RT: 11.772 min Scan# 3610
Delta R.T. 0.003 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion:105 Resp: 9253

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 98.7 | 14.6 | 21.8# |



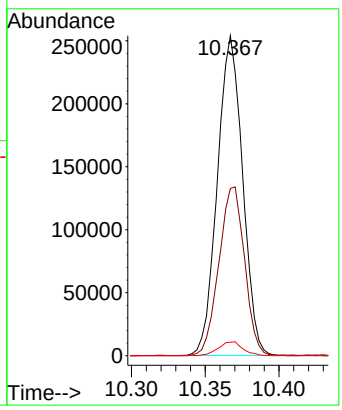


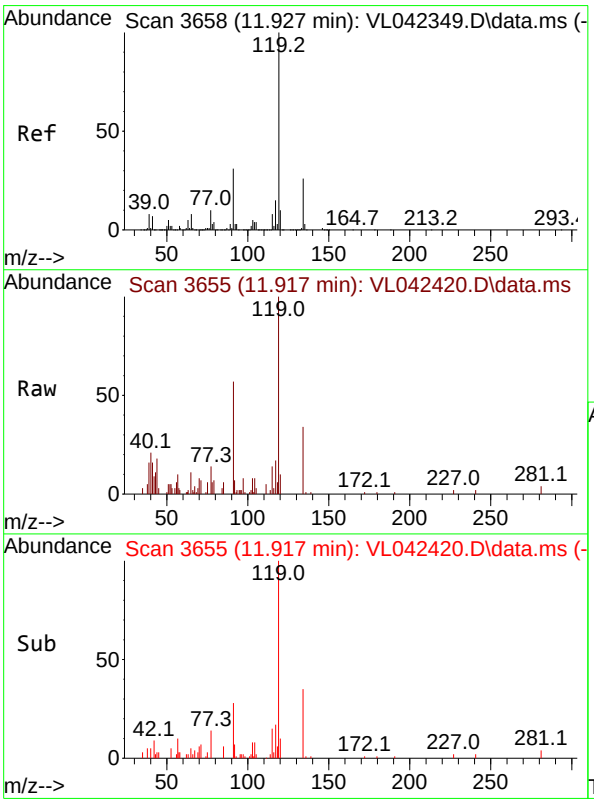

#68
1-Bromo-4-Fluorobenzene
Concen: 10.426 ppbv
RT: 10.367 min Scan# 3
Delta R.T. -0.010 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025

Tgt Ion: 95 Resp: 302328

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 53.7 | 48.5 | 72.7 |
| 175 | 4.2 | 3.7 | 5.5 |

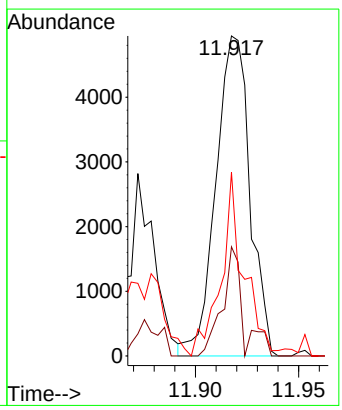


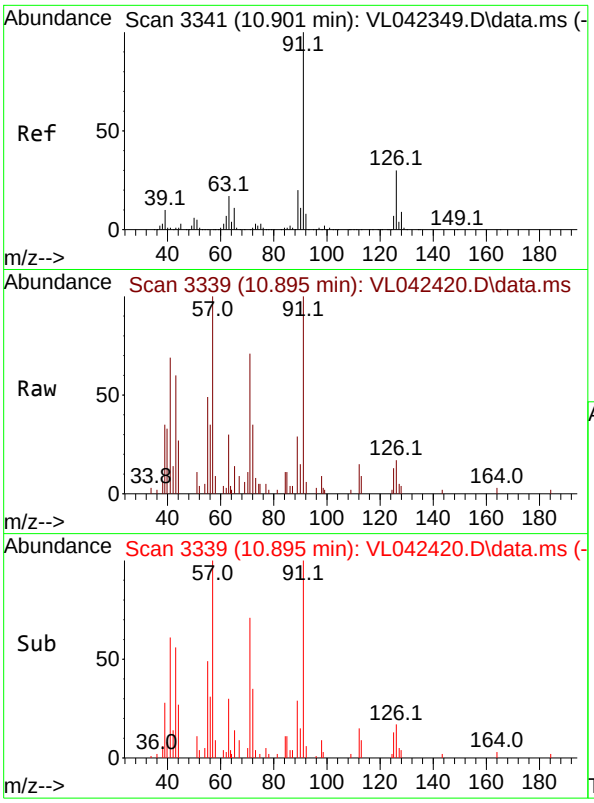




#69
p-Isopropyltoluene
Concen: 0.061 ppbv
RT: 11.917 min Scan# 3655
Delta R.T. -0.010 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion:119 Resp: 5675

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 21.0 | 20.0 | 30.0 |
| 91 | 40.4 | 24.4 | 36.6# |



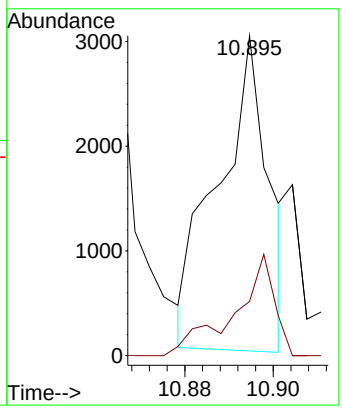


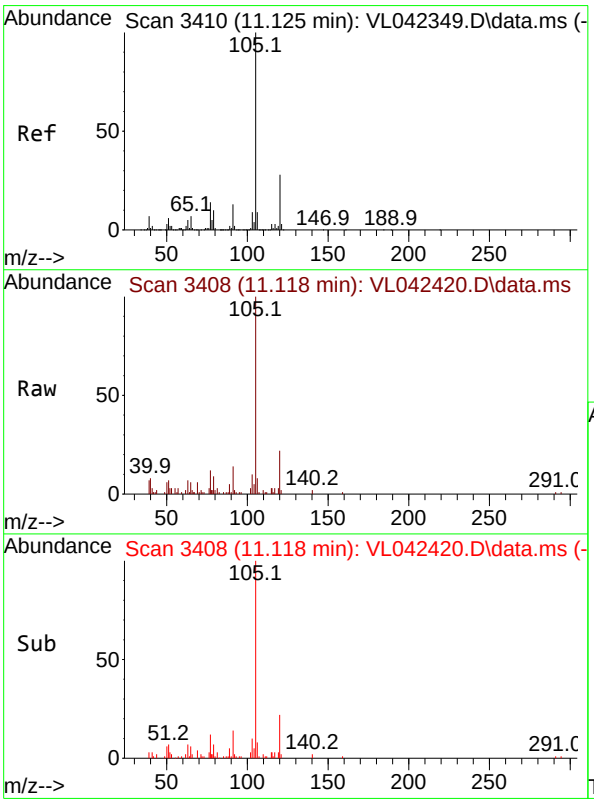

#71
2-Chlorotoluene
Concen: 0.037 ppbv
RT: 10.895 min Scan# 3
Delta R.T. -0.007 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025

Tgt Ion: 91 Resp: 2387

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 25.4 | 11.4 | 45.4 |

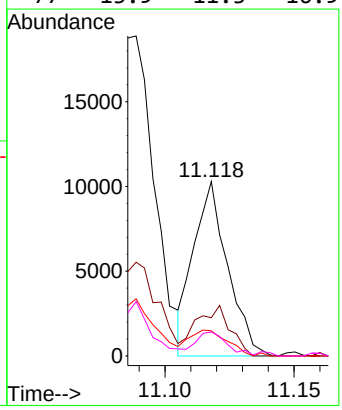


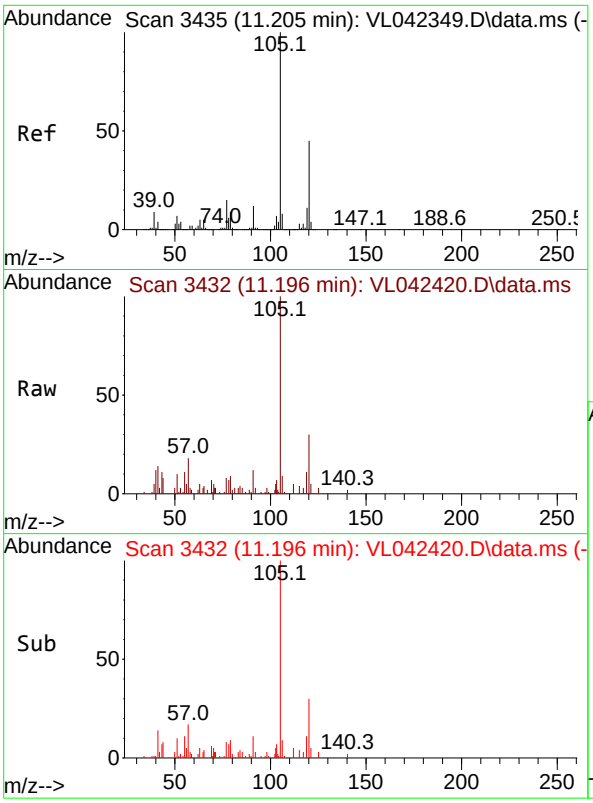




#72
4-Ethyltoluene
Concen: 0.137 ppbv
RT: 11.118 min Scan# 3408
Delta R.T. -0.007 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion:105 Resp: 9487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 0.0 | 23.2 | 34.8# |
| 91 | 0.0 | 10.4 | 15.6# |
| 77 | 13.9 | 11.3 | 16.9 |



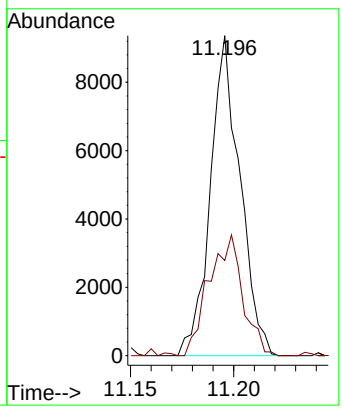


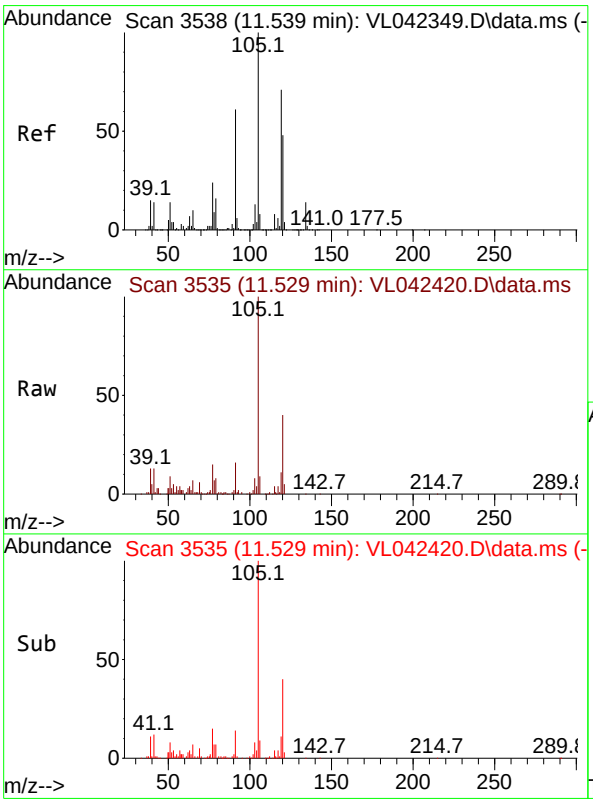

#73
1,3,5-Trimethylbenzene
Concen: 0.153 ppbv
RT: 11.196 min Scan# 3
Delta R.T. -0.010 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025

Tgt Ion:105 Resp: 9349

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 29.8 | 35.6 | 53.4# |

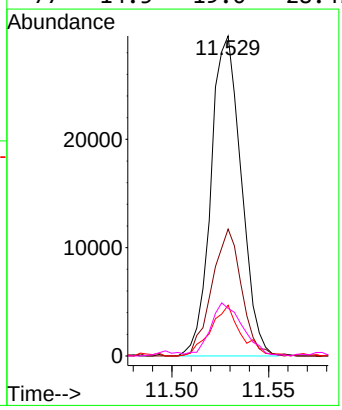


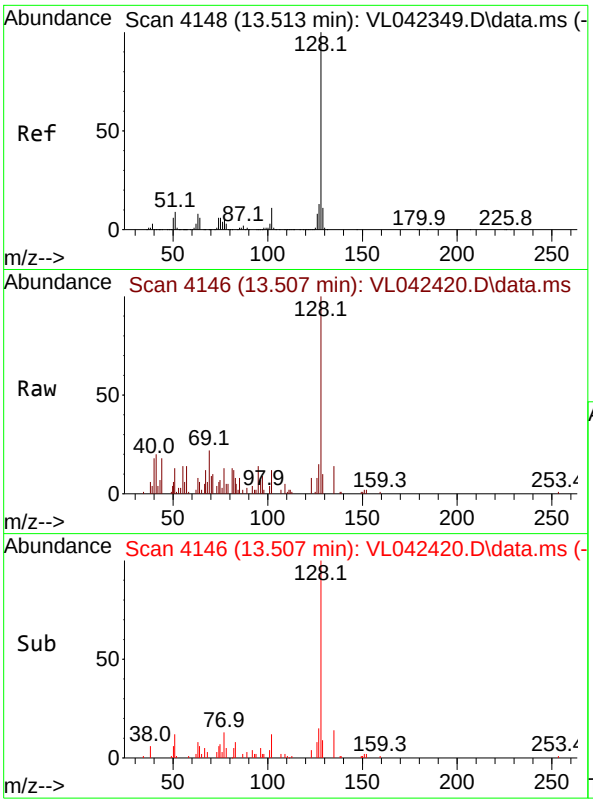




#74
1,2,4-Trimethylbenzene
Concen: 0.449 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.010 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

Tgt Ion:105 Resp: 32107

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 39.7 | 38.1 | 57.1 |
| 91 | 15.9 | 48.8 | 73.2# |
| 77 | 14.5 | 19.0 | 28.4# |



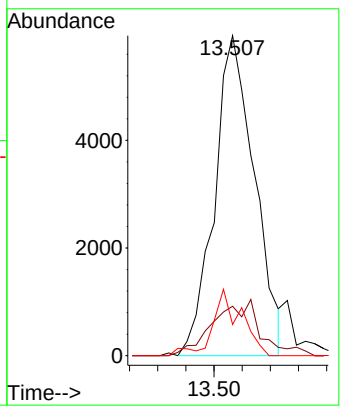



#79
Naphthalene
Concen: 0.069 ppbv
RT: 13.507 min Scan# 4
Delta R.T. -0.007 min
Lab File: VL042420.D
Acq: 28 Apr 2025 11:33

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025

Tgt Ion:128 Resp: 5874

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 14.4 | 10.6 | 15.8 |
| 129 | 9.8 | 8.6 | 12.8 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042421.D
Acq On : 28 Apr 2025 12:17
Operator : SY/MD
Sample : Q1665-12
Misc : 400mL/MSVOA_L
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-6-3242025

Quant Time: Apr 29 01:35:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) Bromochloromethane | 2.781 | 49 | 140992 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.953 | 114 | 398020 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.875 | 117 | 341014 | 10.000 | ppbv | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.371 | 95 | 295244 | 10.536 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 105.400% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.496 | 85 | 11407 | 0.458 | ppbv | | 97 |
| 3) Chlorodifluoromethane | 1.464 | 51 | 18645 | 0.786 | ppbv | # | 77 |
| 4) Chloromethane | 1.532 | 50 | 5396 | 0.547 | ppbv | | 89 |
| 9) Propene | 1.557 | 41 | 608473 | 56.326 | ppbv | | 96 |
| 10) Heptane | 4.972 | 43 | 9796 | 0.323 | ppbv | | 91 |
| 11) Trichlorofluoromethane | 1.875 | 101 | 5389 | 0.227 | ppbv | | 95 |
| 12) 1,1,2-Trichlorotrifluo... | 2.137 | 101 | 1178 | 0.061 | ppbv | # | 76 |
| 13) Ethanol | 1.719 | 45 | 124500 | 72.509 | ppbv | | 76 |
| 15) Acetone | 1.842 | 43 | 548904 | 23.782 | ppbv | # | 68 |
| 16) 1,3-Butadiene | 1.619 | 39 | 12032 | 1.090 | ppbv | # | 21 |
| 17) tert-Butyl alcohol | 2.040 | 59 | 53033 | 1.854 | ppbv | # | 71 |
| 19) Isopropyl Alcohol | 1.881 | 45 | 791511 | 61.732 | ppbv | # | 34 |
| 20) Methylene Chloride | 2.059 | 84 | 39463 | 4.366 | ppbv | # | 77 |
| 21) Allyl Chloride | 2.040 | 41 | 13024 | 0.817 | ppbv | # | 57 |
| 23) Vinyl Acetate | 2.460 | 43 | 53220 | 5.696 | ppbv | # | 94 |
| 25) Ethyl Acetate | 2.820 | 43 | 82058 | 1.442 | ppbv | # | 81 |
| 26) Hexane | 2.820 | 57 | 111715 | 4.851 | ppbv | # | 33 |
| 27) Carbon Disulfide | 2.143 | 76 | 1149 | 0.047 | ppbv | # | 1 |
| 30) Cyclohexane | 3.852 | 84 | 2492 | 0.134 | ppbv | # | 1 |
| 34) 2-Butanone | 2.554 | 43 | 25006 | 0.794 | ppbv | | 99 |
| 35) Carbon Tetrachloride | 3.755 | 117 | 1756 | 0.049 | ppbv | # | 73 |
| 36) Benzene | 3.645 | 78 | 8034 | 0.187 | ppbv | | 95 |
| 37) 1,2-Dichloroethane | 3.205 | 62 | 1519 | 0.059 | ppbv | # | 87 |
| 39) 1,2-Dichloropropane | 3.949 | 63 | 108761 | 6.798 | ppbv | # | 22 |
| 41) Tetrahydrofuran | 3.059 | 42 | 870 | 0.047 | ppbv | # | 55 |
| 44) 2,2,4-Trimethylpentane | 4.632 | 57 | 15729 | 0.212 | ppbv | # | 65 |
| 50) 4-Methyl-2-Pentanone | 5.749 | 43 | 54716 | 1.046 | ppbv | | 96 |
| 53) Toluene | 6.921 | 91 | 71766 | 1.393 | ppbv | | 99 |
| 58) Ethyl Benzene | 9.345 | 91 | 33666 | 0.498 | ppbv | | 96 |
| 59) m/p-Xylene | 9.552 | 91 | 4106 | 0.075 | ppbv | # | 32 |
| 60) o-Xylene | 9.957 | 91 | 18390 | 0.336 | ppbv | | 97 |
| 61) Styrene | 9.863 | 104 | 11677 | 0.446 | ppbv | | 91 |
| 62) Isopropylbenzene | 10.529 | 105 | 9651 | 0.120 | ppbv | | 98 |
| 64) n-propylbenzene | 10.986 | 120 | 2331 | 0.115 | ppbv | # | 51 |
| 65) tert-Butylbenzene | 11.530 | 119 | 5655 | 0.076 | ppbv | # | 69 |
| 70) n-Butylbenzene | 12.277 | 91 | 4101 | 0.044 | ppbv | # | 79 |
| 72) 4-Ethyltoluene | 11.118 | 105 | 10909 | 0.163 | ppbv | # | 56 |
| 73) 1,3,5-Trimethylbenzene | 11.199 | 105 | 11852 | 0.200 | ppbv | | 92 |
| 74) 1,2,4-Trimethylbenzene | 11.533 | 105 | 45414 | 0.657 | ppbv | # | 59 |
| 79) Naphthalene | 13.514 | 128 | 6445 | 0.078 | ppbv | | 96 |
| 80) Naphthalene,2-methyl- | 14.452 | 142 | 2419 | 0.051 | ppbv | # | 64 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042421.D
Acq On : 28 Apr 2025 12:17
Operator : SY/MD
Sample : Q1665-12
Misc : 400mL/MSVOA_L
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-6-3242025

Quant Time: Apr 29 01:35:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

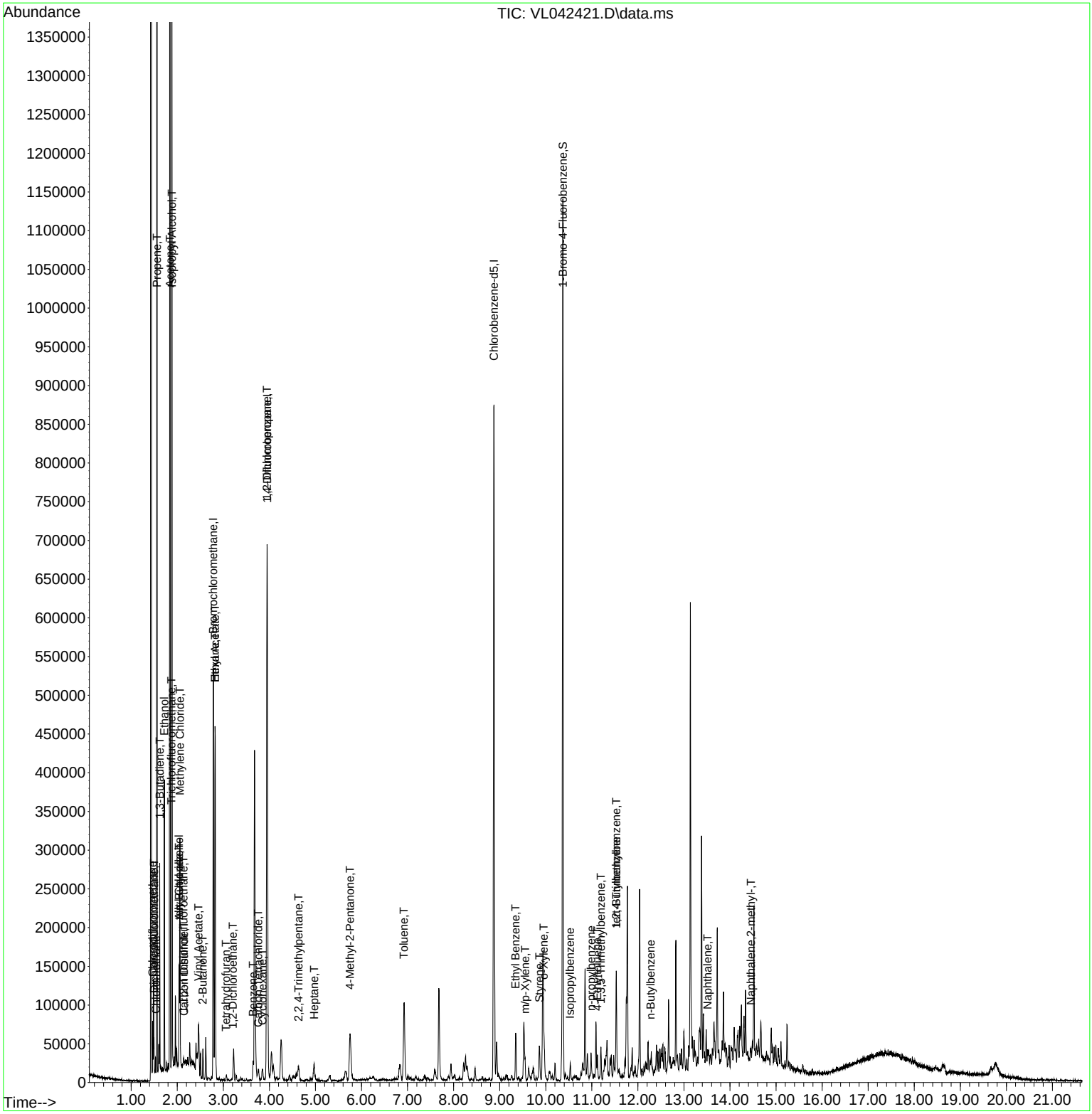
(#) = qualifier out of range (m) = manual integration (+) = signals summed

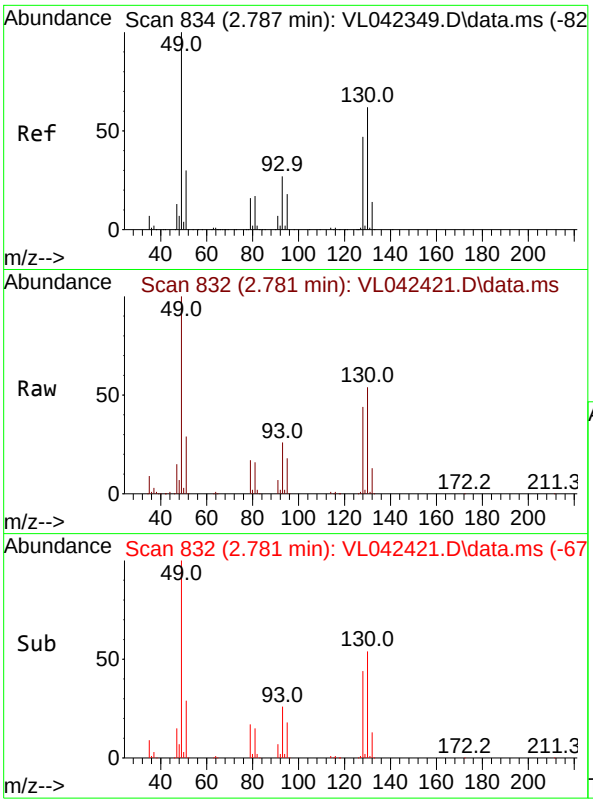
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042421.D
Acq On : 28 Apr 2025 12:17
Operator : SY/MD
Sample : Q1665-12
Misc : 400mL/MSVOA_L
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-6-3242025

Quant Time: Apr 29 01:35:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration



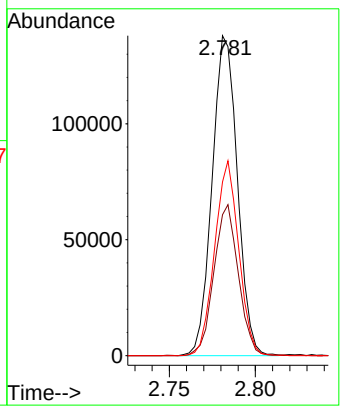


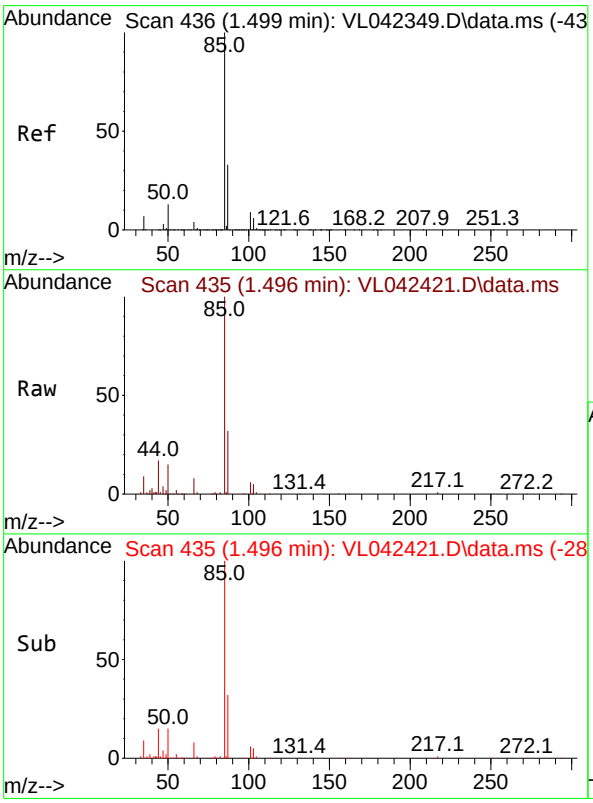

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 8
Delta R.T. -0.006 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-6-3242025

Tgt Ion: 49 Resp: 140992

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 45.9 | 22.8 | 68.4 |
| 130 | 58.0 | 29.3 | 88.0 |

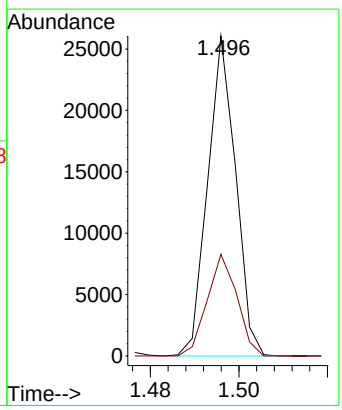


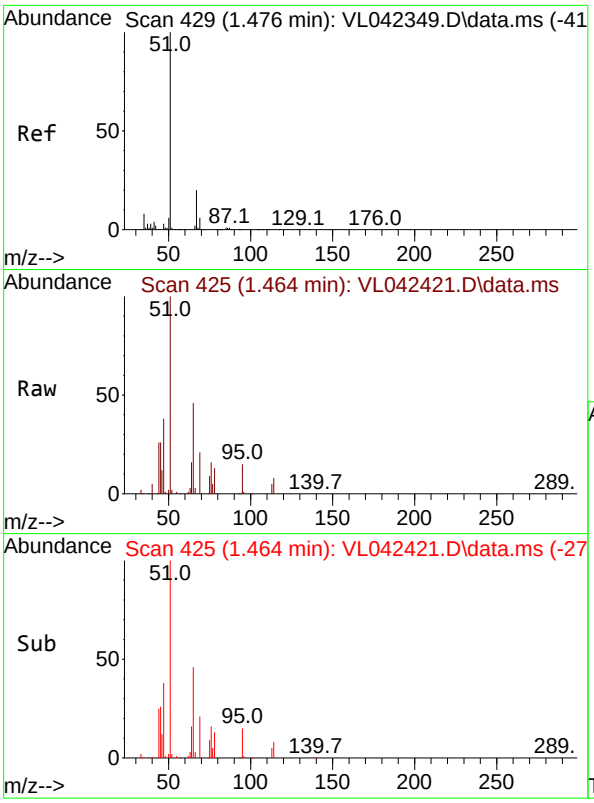




#2
Dichlorodifluoromethane
Concen: 0.458 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion: 85 Resp: 11407

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.7 | 26.6 | 39.8 |



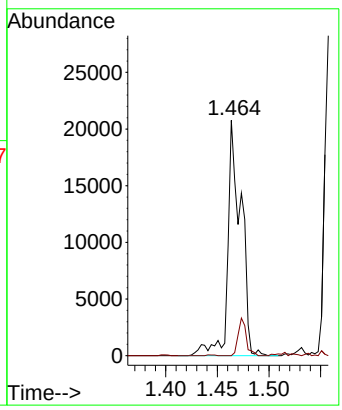


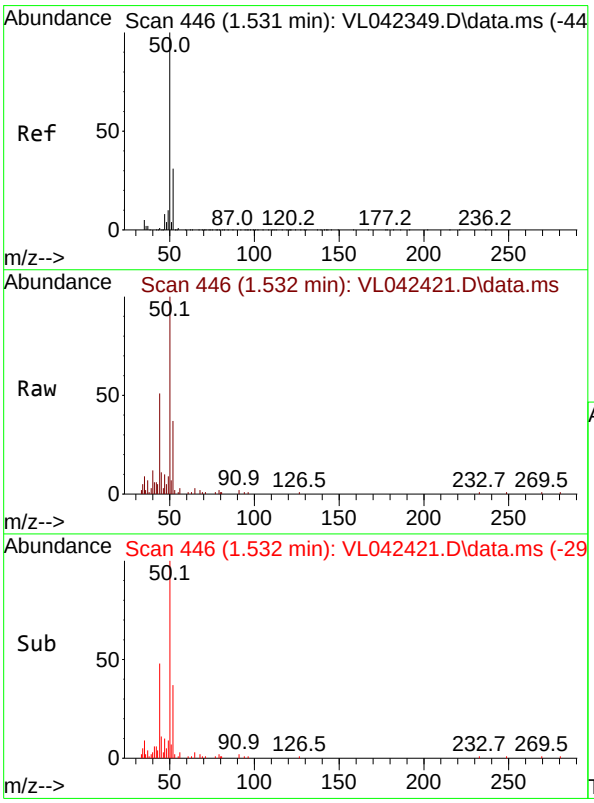

#3
Chlorodifluoromethane
Concen: 0.786 ppbv
RT: 1.464 min Scan# 4
Delta R.T. -0.013 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-6-3242025

Tgt Ion: 51 Resp: 18645

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 9.8 | 16.2 | 24.4# |

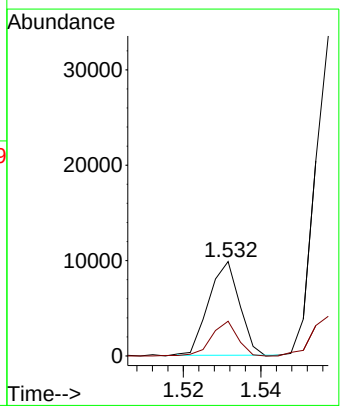


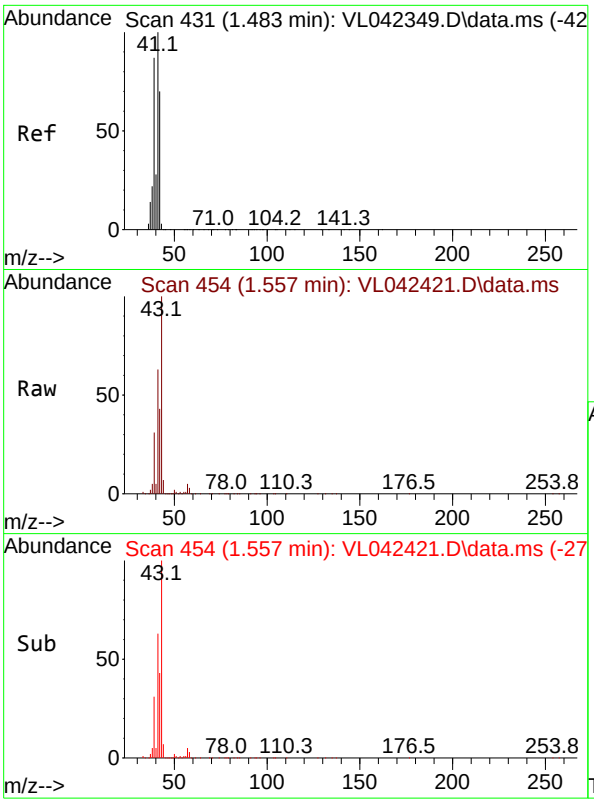




#4
Chloromethane
Concen: 0.547 ppbv
RT: 1.532 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion: 50 Resp: 5396

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 37.0 | 24.7 | 37.1 |



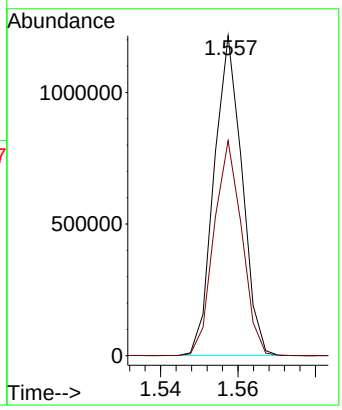


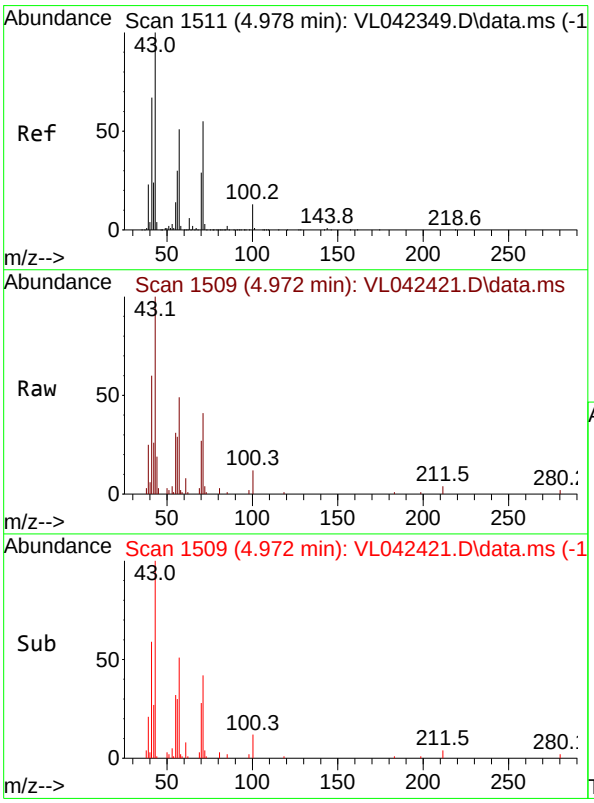

#9
Propene
Concen: 56.326 ppbv
RT: 1.557 min Scan# 4
Delta R.T. 0.075 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-6-3242025

Tgt Ion: 41 Resp: 608473

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 67.3 | 56.2 | 84.4 |

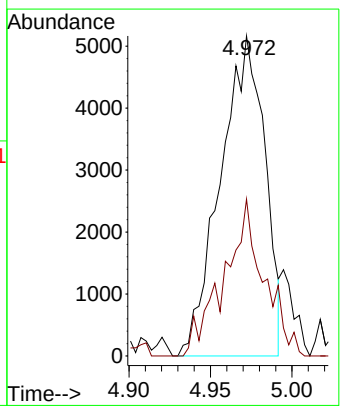


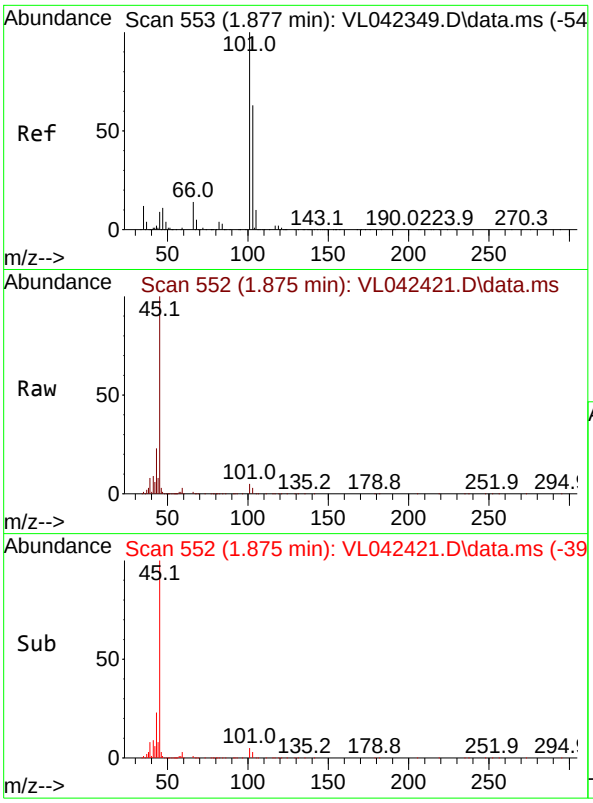




#10
Heptane
Concen: 0.323 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. -0.006 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion: 43 Resp: 9796

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 44.0 | 39.9 | 59.9 |



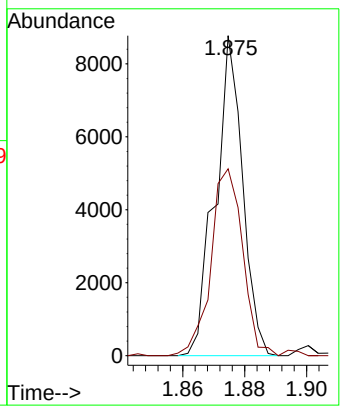


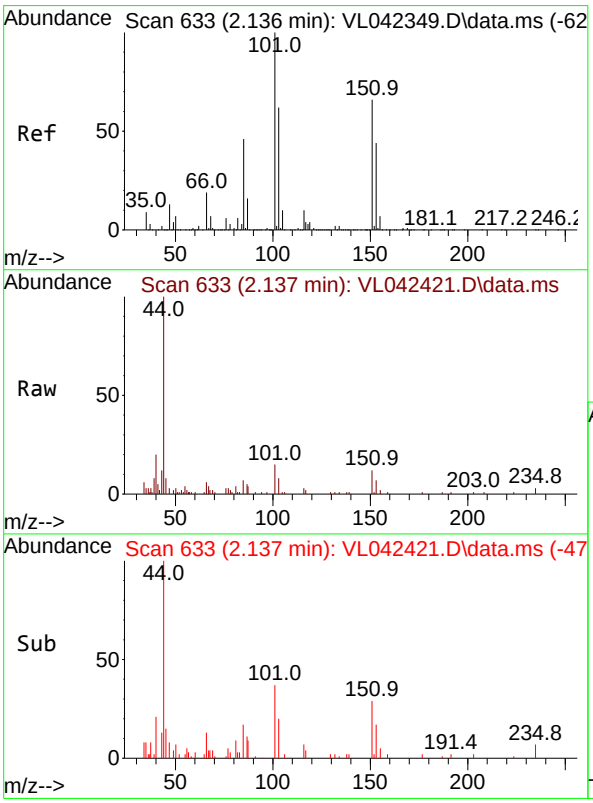

#11
Trichlorofluoromethane
Concen: 0.227 ppbv
RT: 1.875 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-6-3242025

Tgt Ion:101 Resp: 5389

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 58.4 | 50.1 | 75.1 |

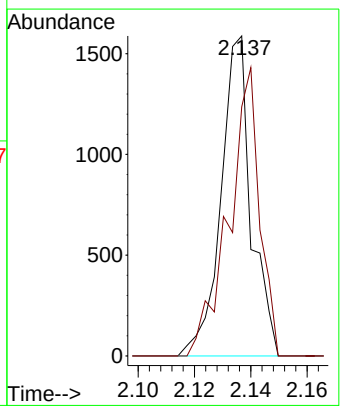


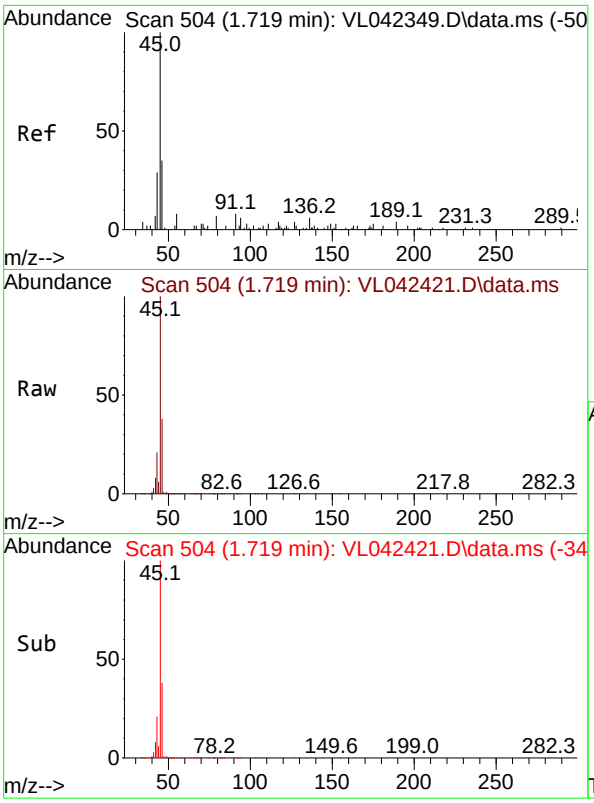




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.061 ppbv
RT: 2.137 min Scan# 633
Delta R.T. 0.000 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion:101 Resp: 1178

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 91.6 | 57.0 | 85.6# |



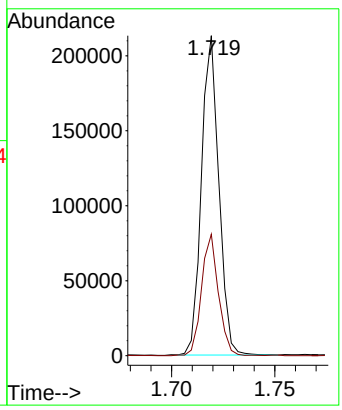


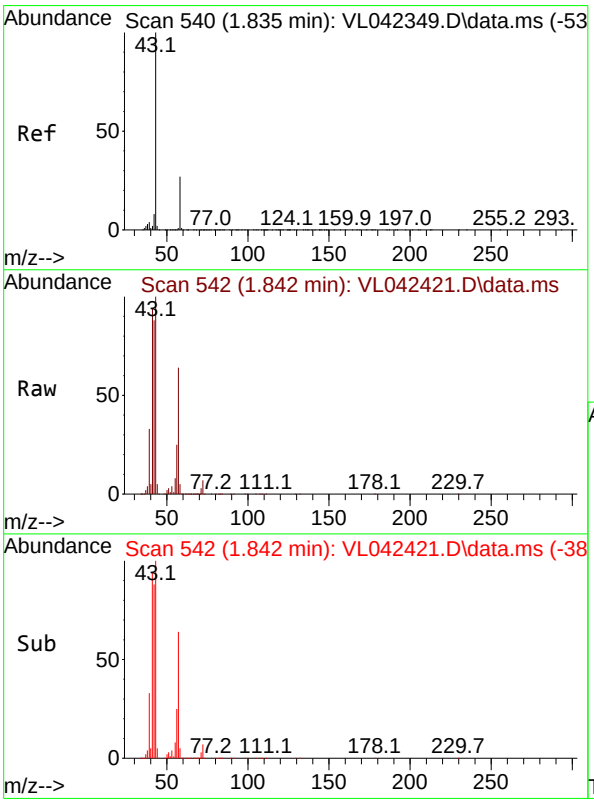

#13
Ethanol
Concen: 72.509 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-6-3242025

Tgt Ion: 45 Resp: 124500

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 37.4 | 21.9 | 87.7 |

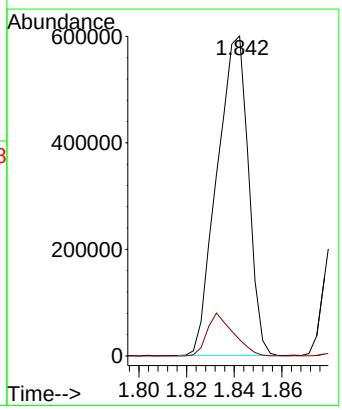


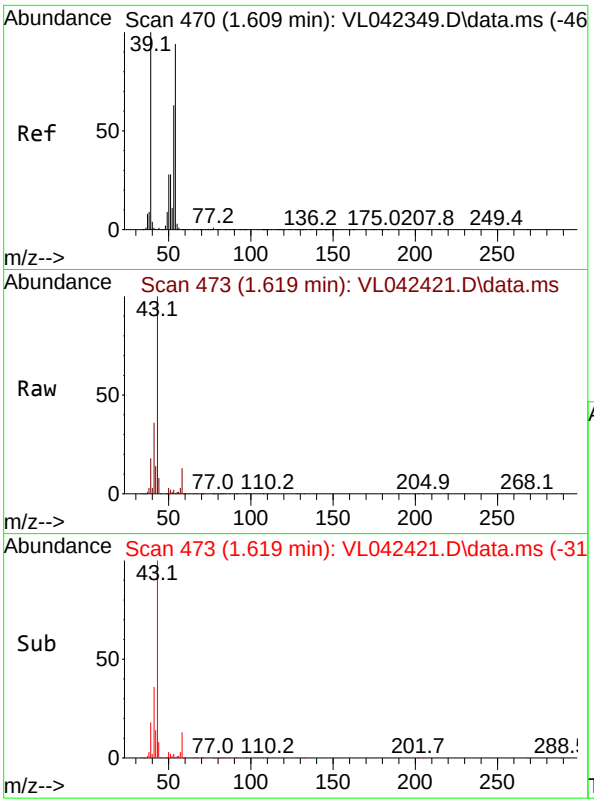




#15
Acetone
Concen: 23.782 ppbv
RT: 1.842 min Scan# 542
Delta R.T. 0.007 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion: 43 Resp: 548904

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 11.3 | 22.4 | 33.6# |



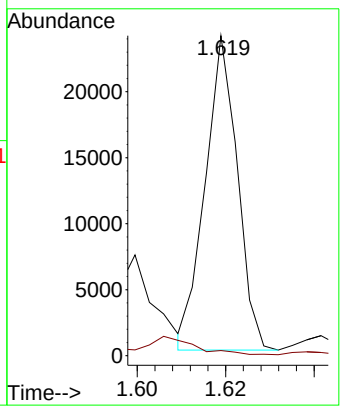


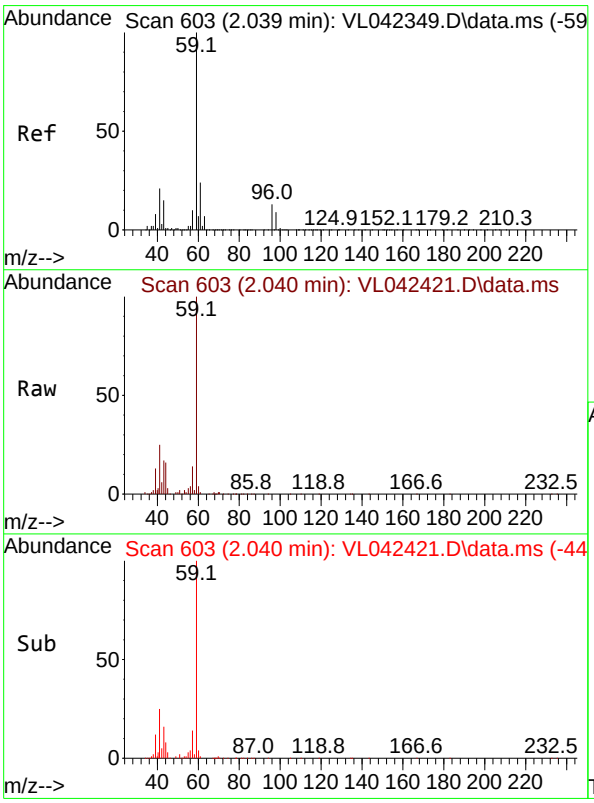

#16
1,3-Butadiene
Concen: 1.090 ppbv
RT: 1.619 min Scan# 4
Delta R.T. 0.010 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-6-3242025

Tgt Ion: 39 Resp: 12032

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 11.2 | 64.9 | 97.3# |

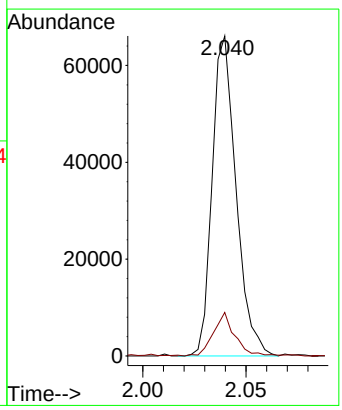


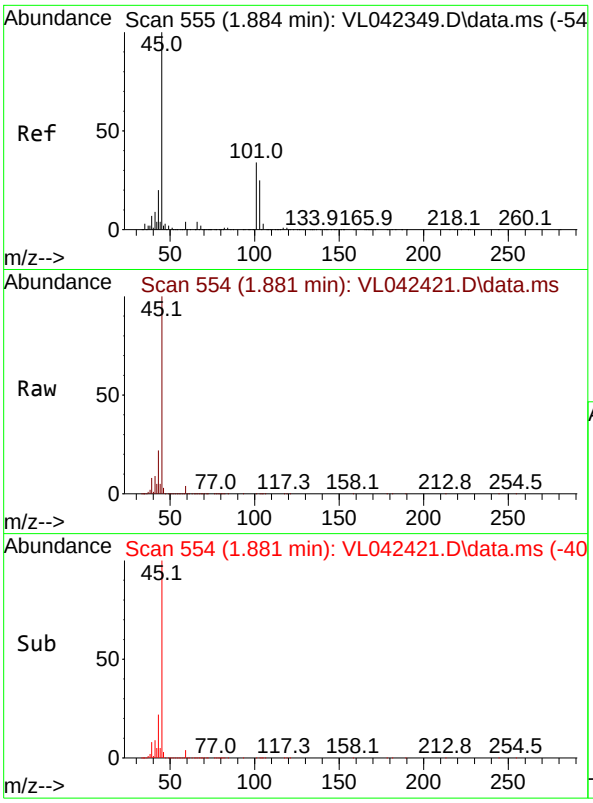




#17
tert-Butyl alcohol
Concen: 1.854 ppbv
RT: 2.040 min Scan# 603
Delta R.T. 0.000 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion: 59 Resp: 53033

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 0.0 | 8.7 | 13.1# |



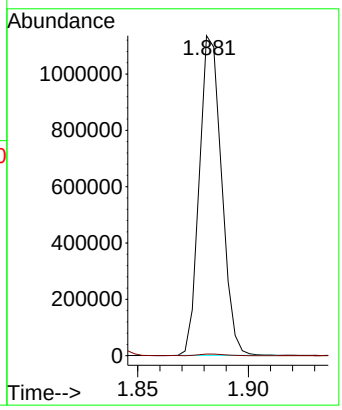


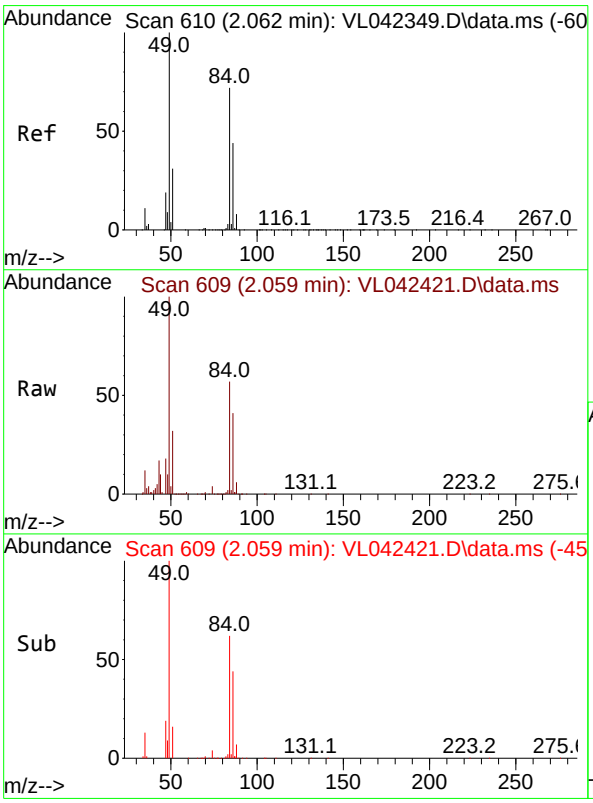

#19
Isopropyl Alcohol
Concen: 61.732 ppbv
RT: 1.881 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-6-3242025

Tgt Ion: 45 Resp: 791511

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 0.6 | 34.5 | 51.7# |

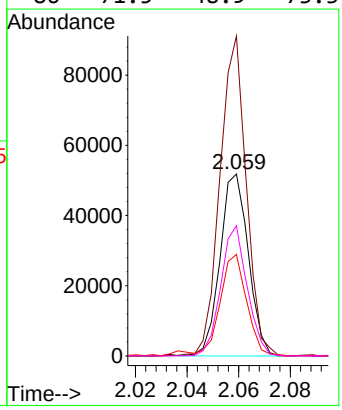


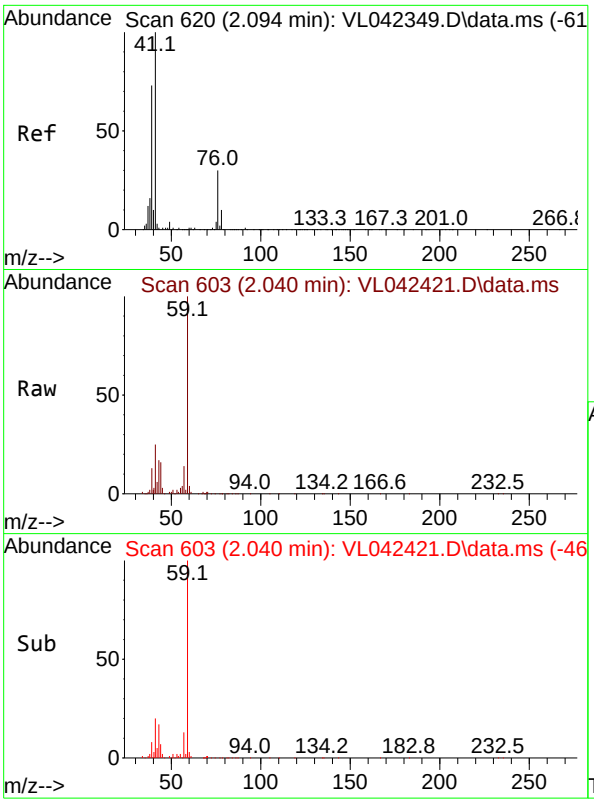




#20
Methylene Chloride
Concen: 4.366 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion: 84 Resp: 39463

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 175.5 | 111.6 | 167.4# |
| 51 | 55.1 | 35.1 | 52.7# |
| 86 | 71.5 | 48.9 | 73.3 |



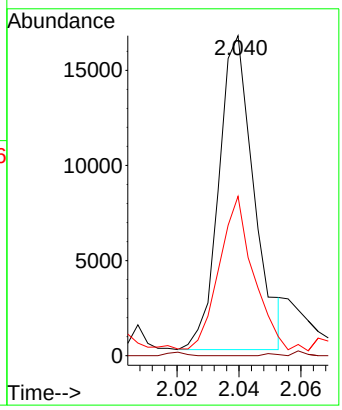


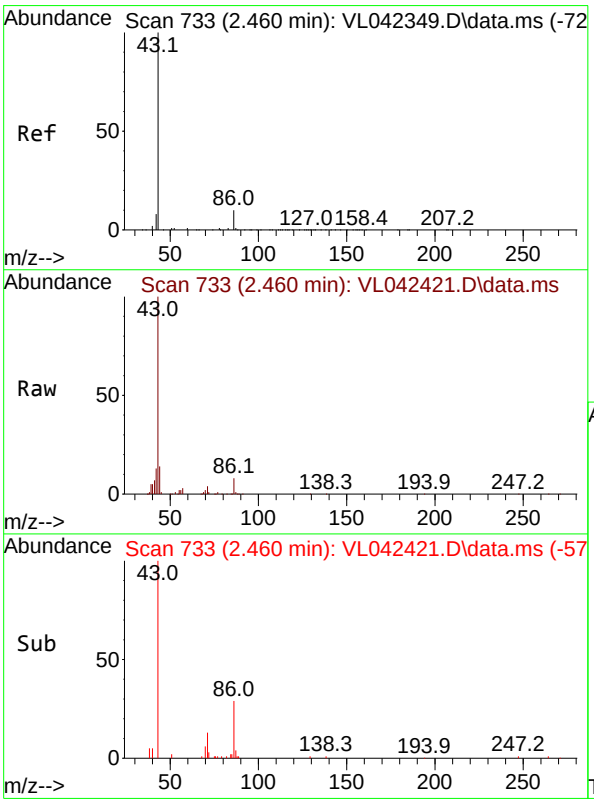

#21
Allyl Chloride
Concen: 0.817 ppbv
RT: 2.040 min Scan# 6
Delta R.T. -0.055 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-6-3242025

Tgt Ion: 41 Resp: 13024

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 0.5 | 24.8 | 37.2# |
| 39 | 43.7 | 60.6 | 90.8# |

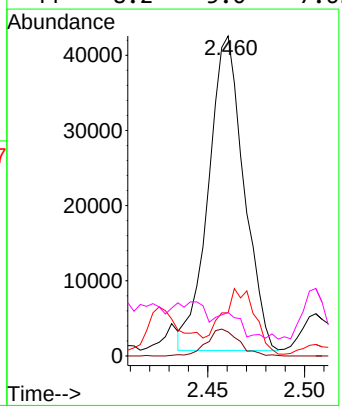


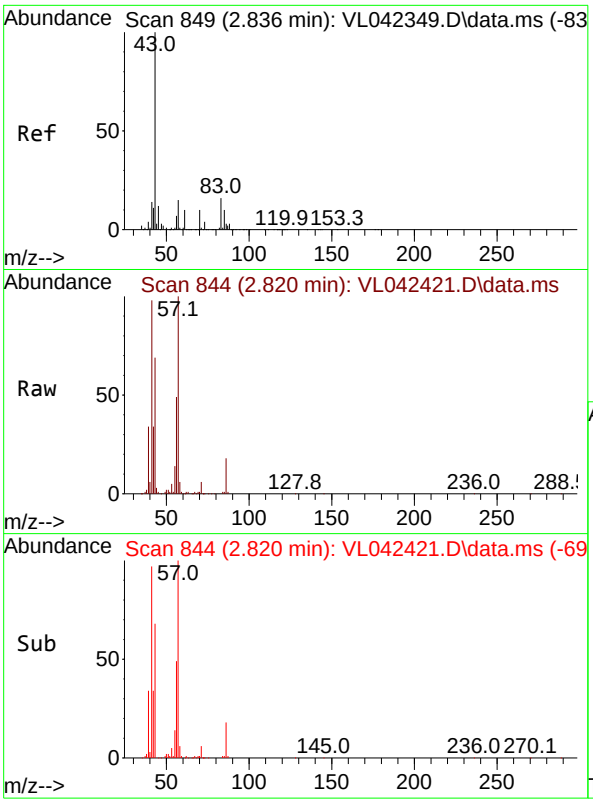




#23
Vinyl Acetate
Concen: 5.696 ppbv
RT: 2.460 min Scan# 733
Delta R.T. 0.000 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion: 43 Resp: 53220

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 7.5 | 6.5 | 9.7 |
| 42 | 13.1 | 7.8 | 11.8# |
| 44 | 8.2 | 5.0 | 7.6# |



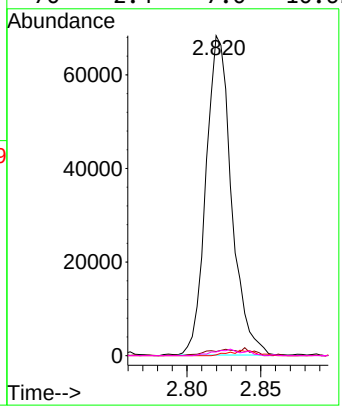


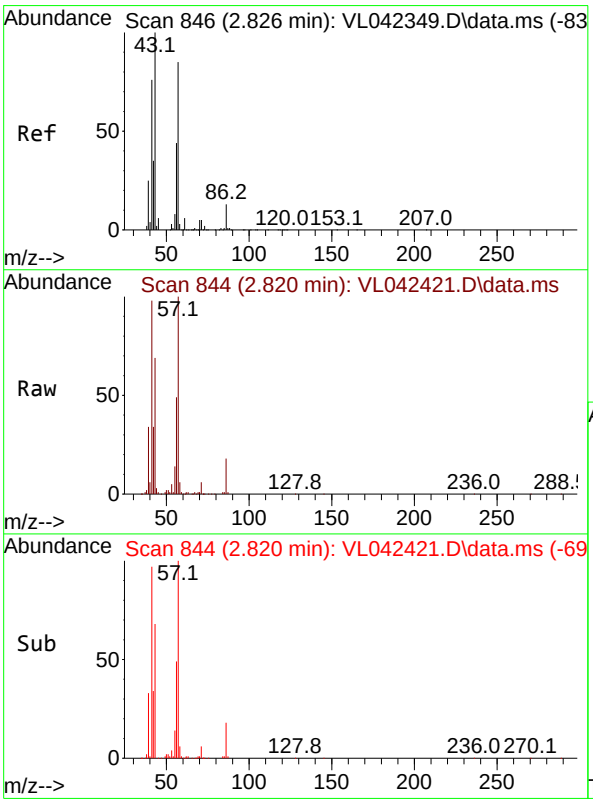

#25
Ethyl Acetate
Concen: 1.442 ppbv
RT: 2.820 min Scan# 84
Delta R.T. -0.016 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-6-3242025

Tgt Ion: 43 Resp: 82058

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 3.6 | 8.3 | 12.5# |
| 61 | 1.7 | 7.3 | 10.9# |
| 70 | 2.4 | 7.0 | 10.6# |

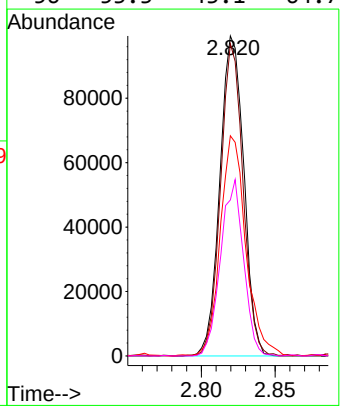


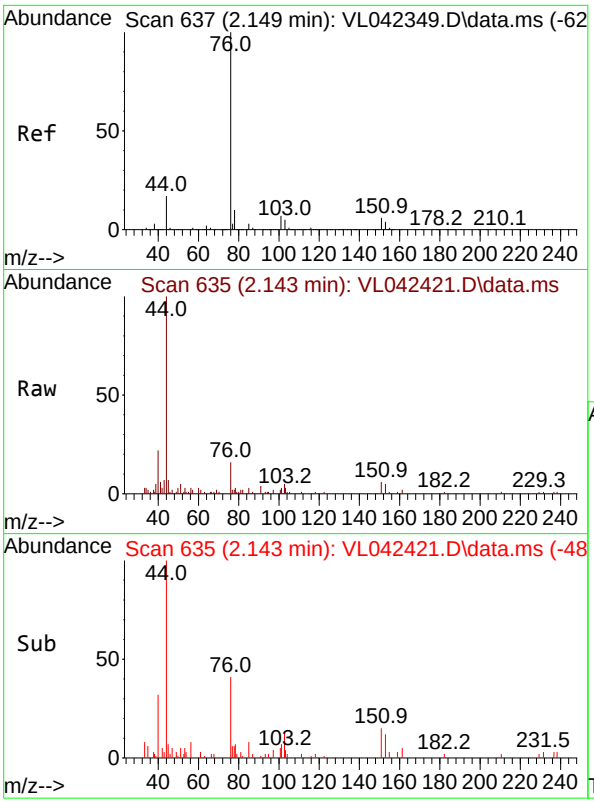




#26
Hexane
Concen: 4.851 ppbv
RT: 2.820 min Scan# 844
Delta R.T. -0.006 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion: 57 Resp: 111715

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 92.0 | 77.9 | 116.9 |
| 43 | 74.4 | 208.4 | 312.6# |
| 56 | 53.3 | 43.1 | 64.7 |



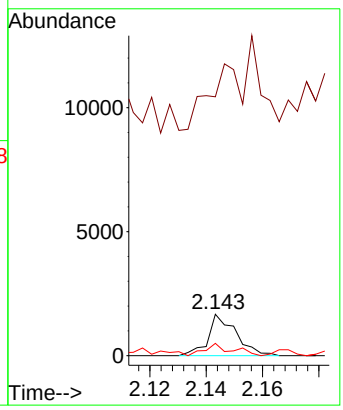


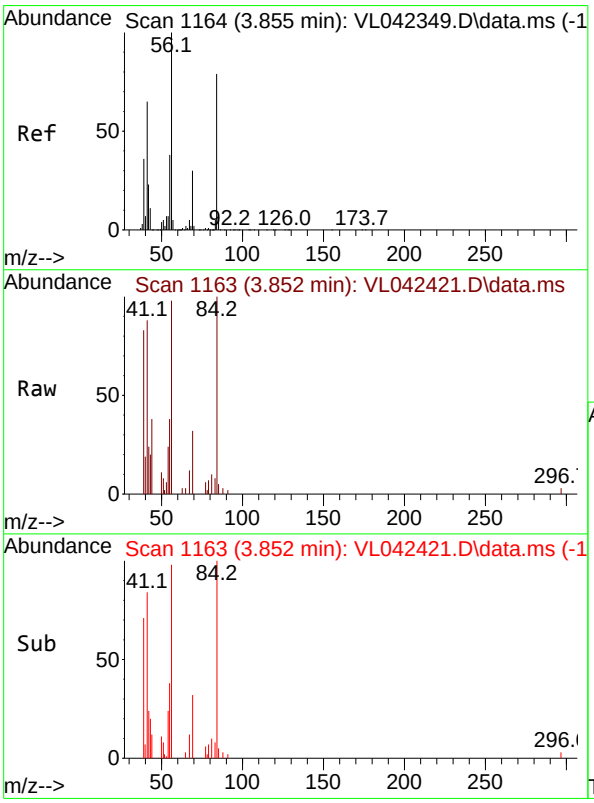

#27
Carbon Disulfide
Concen: 0.047 ppbv
RT: 2.143 min Scan# 6
Delta R.T. -0.006 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-6-3242025

Tgt Ion: 76 Resp: 1149

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 1354.1 | 15.5 | 23.3# |
| 78 | 36.2 | 9.3 | 13.9# |

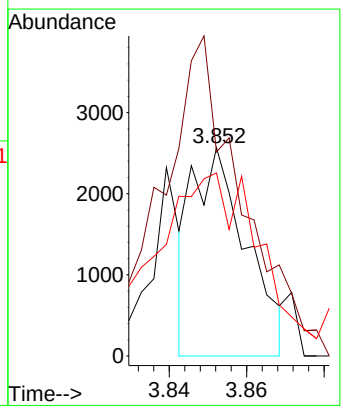


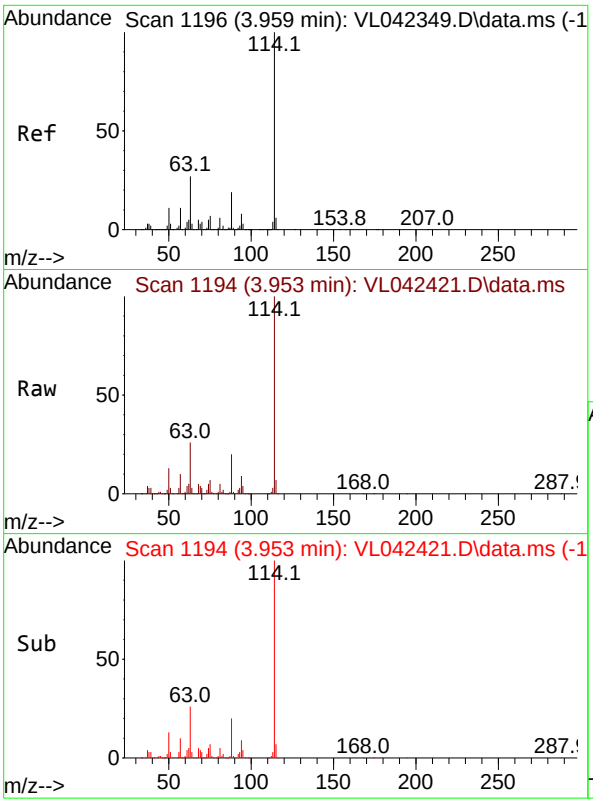




#30
Cyclohexane
Concen: 0.134 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. -0.003 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion: 84 Resp: 2492

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 255.2 | 101.0 | 151.4# |
| 41 | 0.0 | 67.4 | 101.0# |



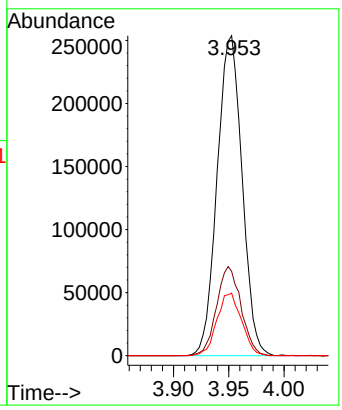


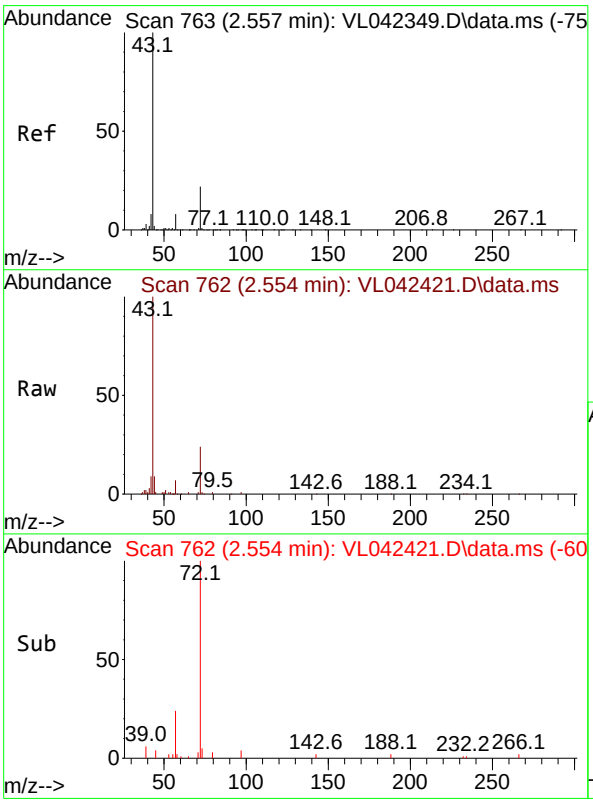

#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.953 min Scan# 11
Delta R.T. -0.006 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-6-3242025

Tgt Ion:114 Resp: 398020

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 27.3 | 21.8 | 32.6 |
| 88 | 19.3 | 15.5 | 23.3 |

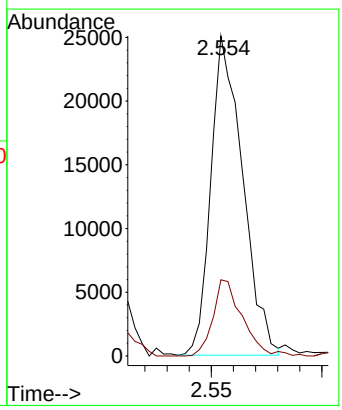


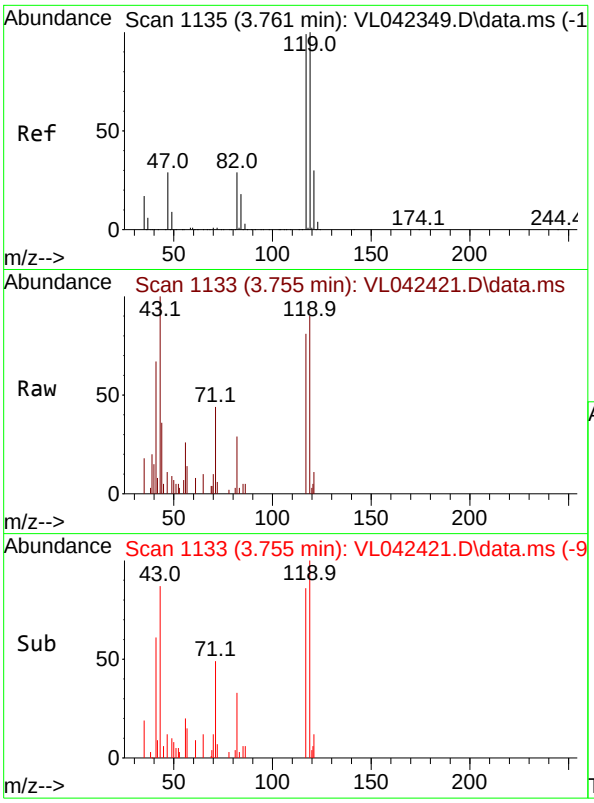




#34
2-Butanone
Concen: 0.794 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.003 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion: 43 Resp: 25006

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 22.5 | 18.2 | 27.2 |



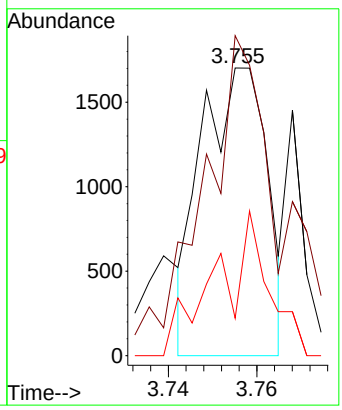


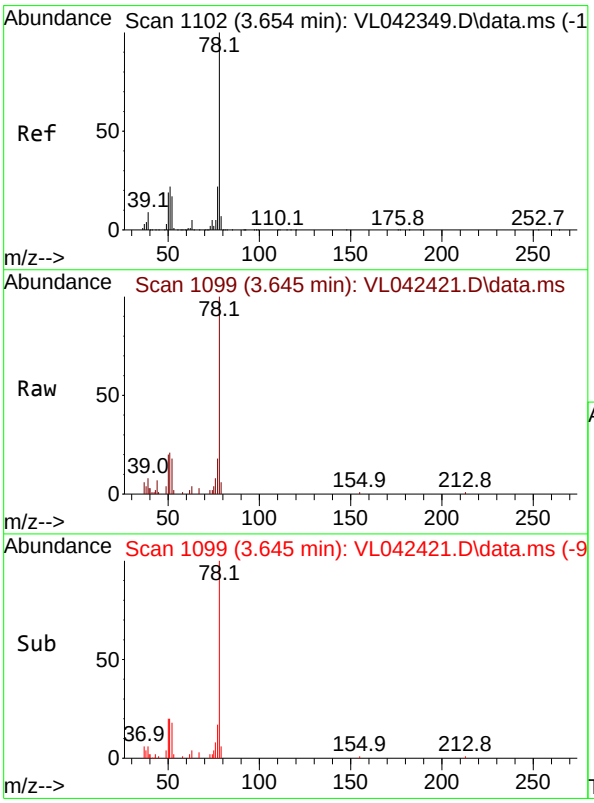

#35
Carbon Tetrachloride
Concen: 0.049 ppbv
RT: 3.755 min Scan# 1
Delta R.T. -0.006 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-6-3242025

Tgt Ion:117 Resp: 1756

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 119.0 | 80.5 | 120.7 |
| 121 | 0.0 | 24.2 | 36.2# |

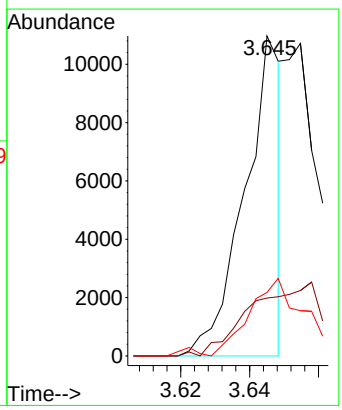


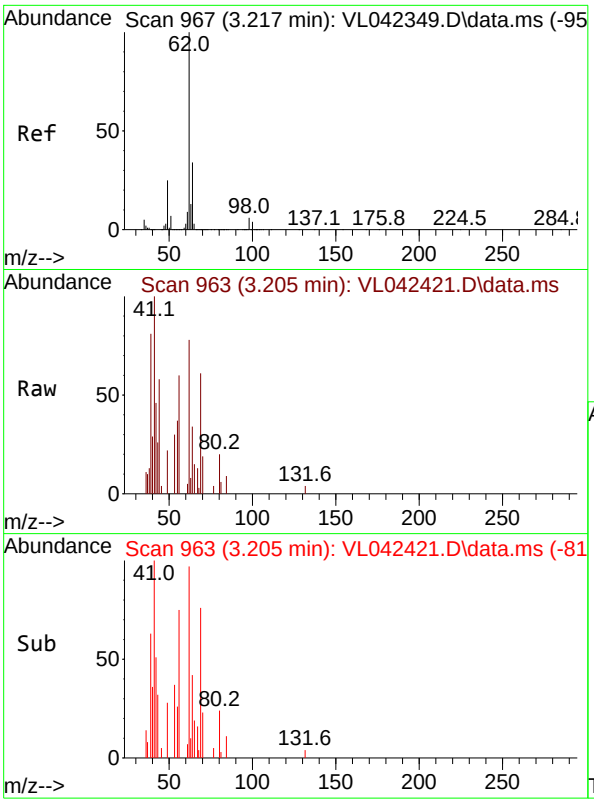




#36
Benzene
Concen: 0.187 ppbv
RT: 3.645 min Scan# 1099
Delta R.T. -0.009 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion: 78 Resp: 8034

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 18.1 | 17.4 | 26.0 |
| 50 | 18.5 | 15.5 | 23.3 |



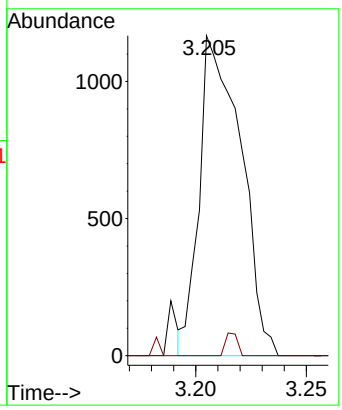


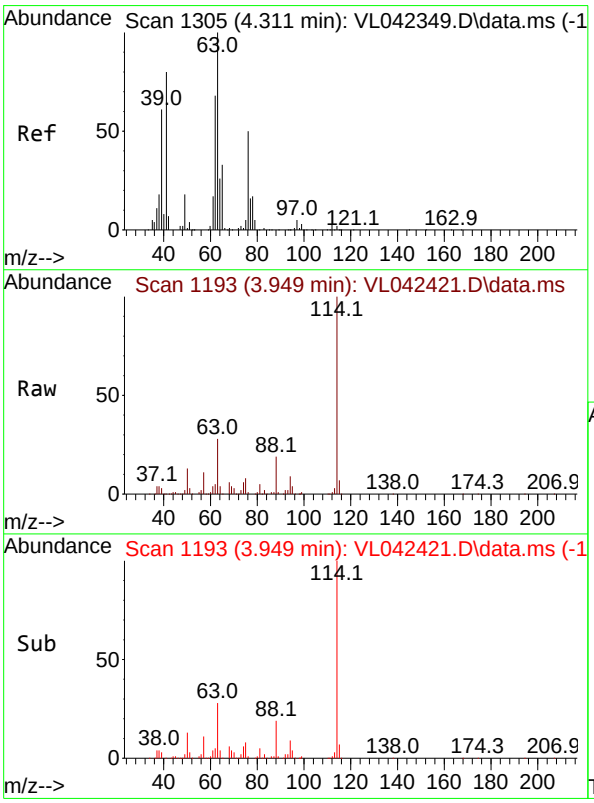

#37
1,2-Dichloroethane
Concen: 0.059 ppbv
RT: 3.205 min Scan# 9
Delta R.T. -0.013 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-6-3242025

Tgt Ion: 62 Resp: 1519

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 2.0 | 5.1 | 7.7# |

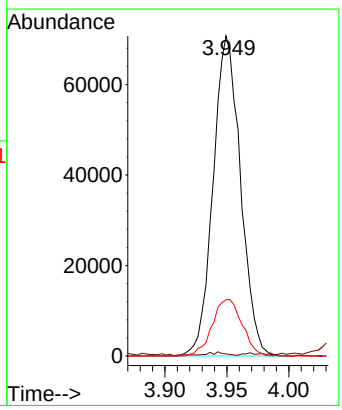


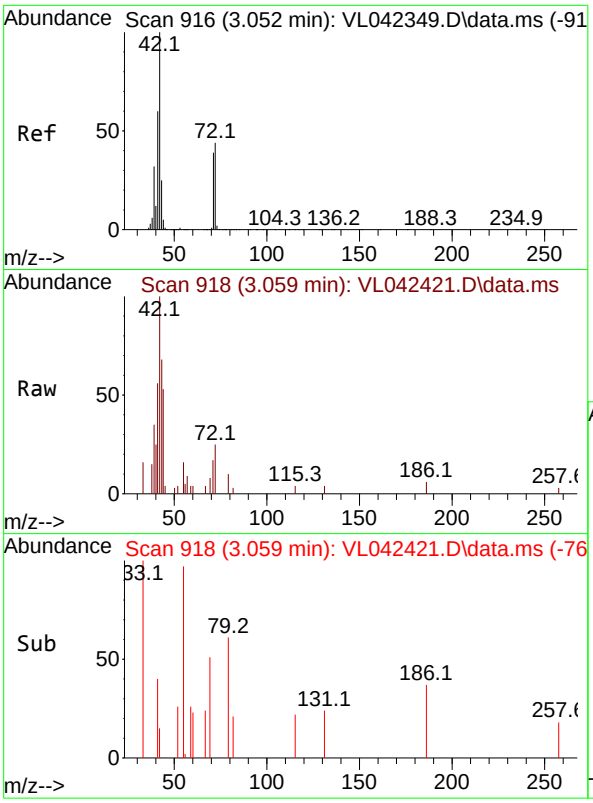




#39
1,2-Dichloropropane
Concen: 6.798 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. -0.362 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion: 63 Resp: 108761

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 0.1 | 64.2 | 96.2# |
| 62 | 17.6 | 54.3 | 81.5# |



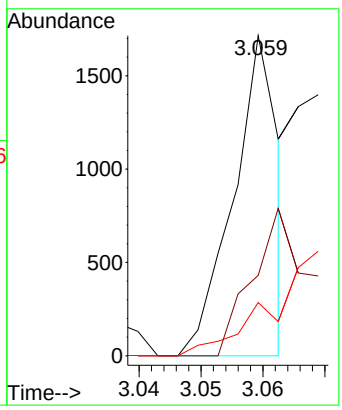


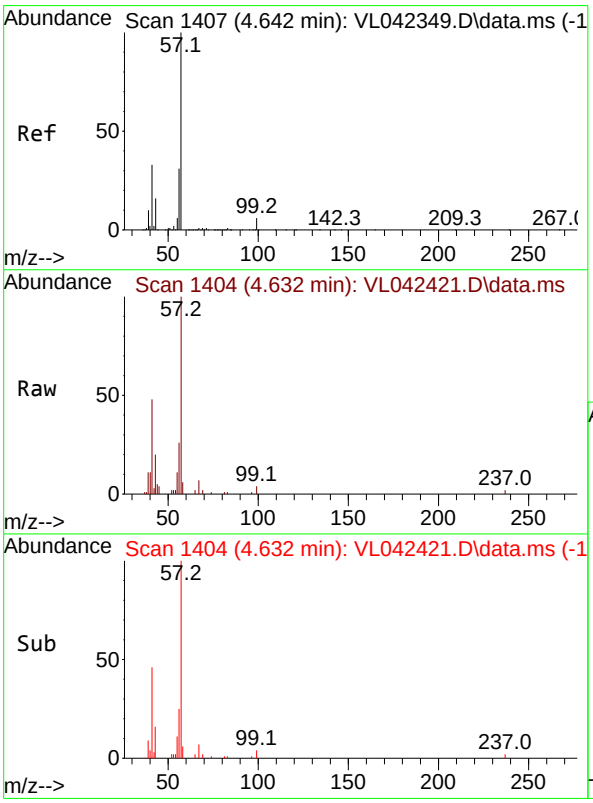

#41
Tetrahydrofuran
Concen: 0.047 ppbv
RT: 3.059 min Scan# 91
Delta R.T. 0.007 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-6-3242025

Tgt Ion: 42 Resp: 870

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 56.9 | 32.3 | 48.5# |
| 71 | 0.0 | 31.4 | 47.2# |

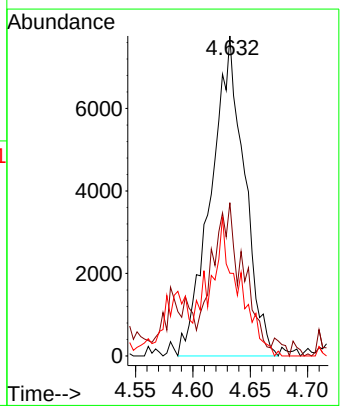


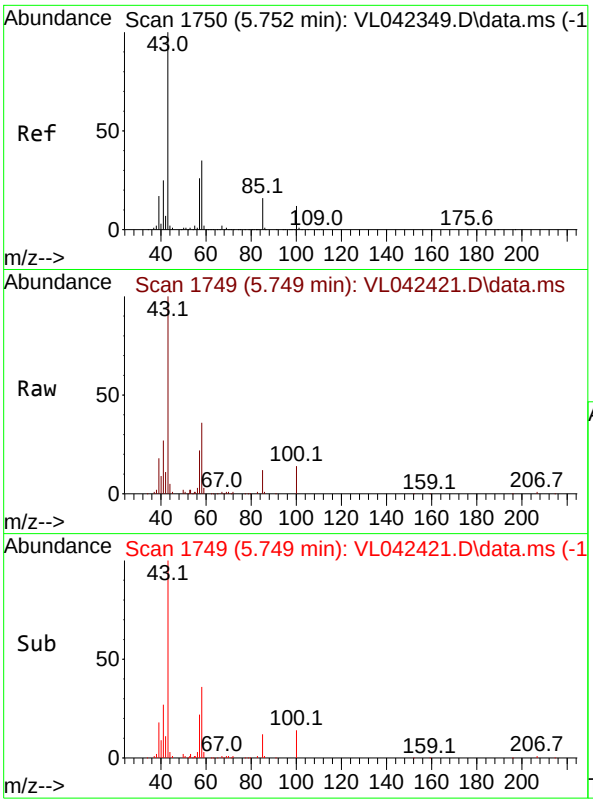




#44
2,2,4-Trimethylpentane
Concen: 0.212 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. -0.009 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion: 57 Resp: 15729

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 52.6 | 27.2 | 40.8# |
| 56 | 53.5 | 25.7 | 38.5# |



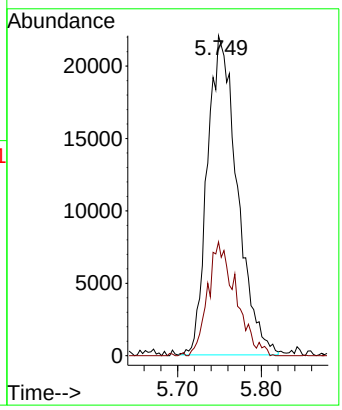


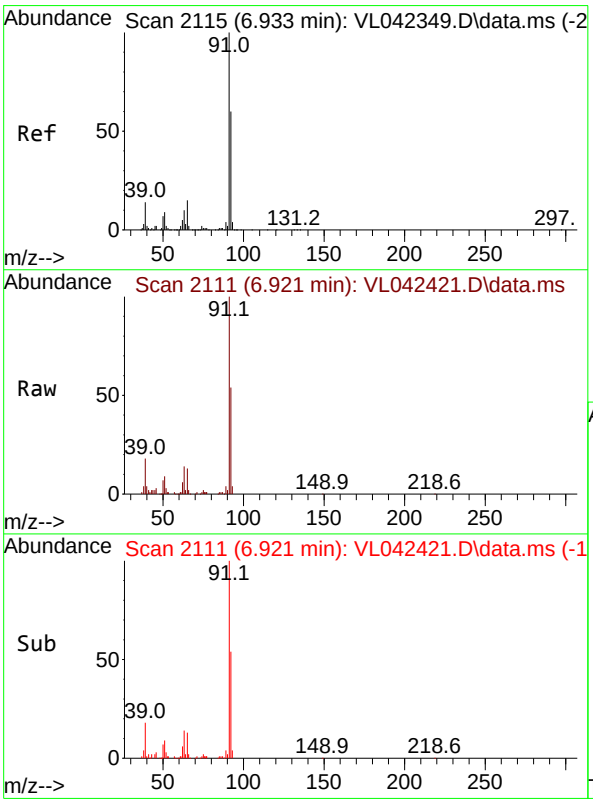

#50
4-Methyl-2-Pentanone
Concen: 1.046 ppbv
RT: 5.749 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-6-3242025

Tgt Ion: 43 Resp: 54716

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 33.7 | 28.6 | 43.0 |

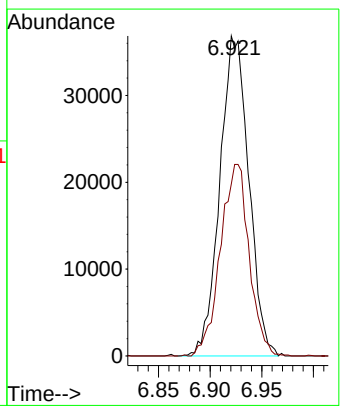


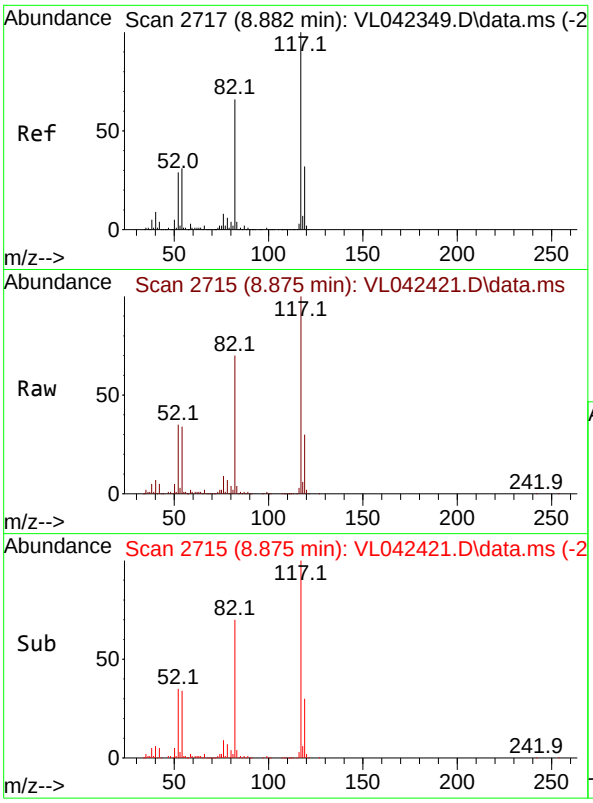




#53
Toluene
Concen: 1.393 ppbv
RT: 6.921 min Scan# 2111
Delta R.T. -0.013 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion: 91 Resp: 71766

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 59.6 | 48.2 | 72.4 |



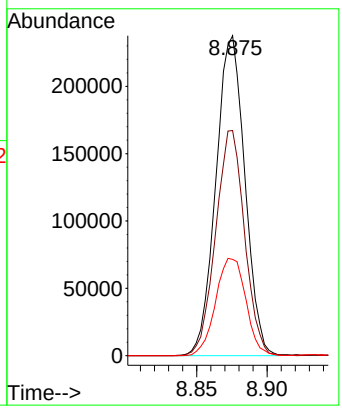


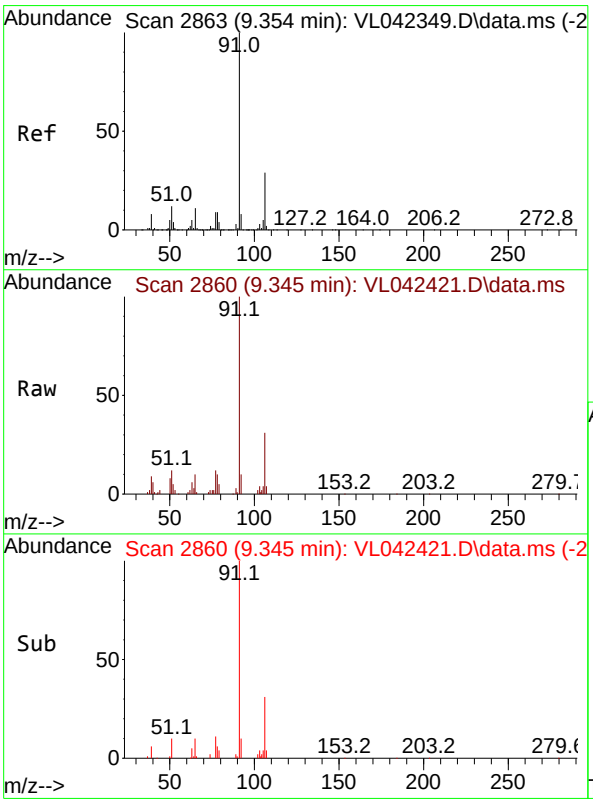

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. -0.006 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-6-3242025

Tgt Ion:117 Resp: 341014

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 70.2 | 57.8 | 86.6 |
| 119 | 31.8 | 25.2 | 37.8 |

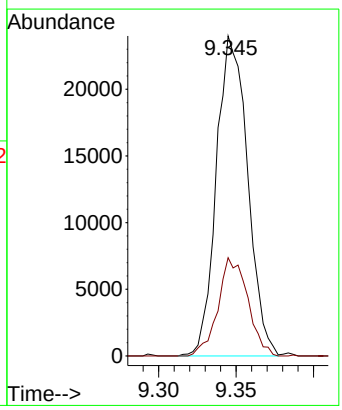


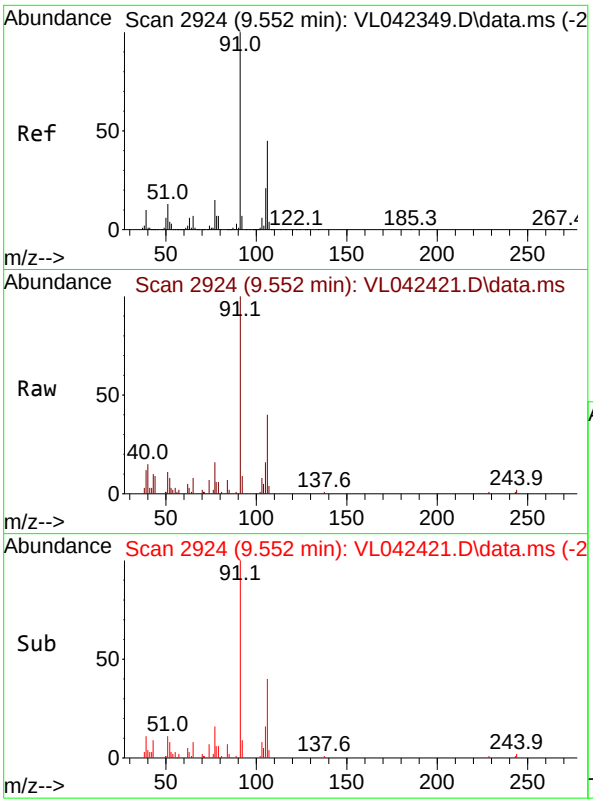




#58
Ethyl Benzene
Concen: 0.498 ppbv
RT: 9.345 min Scan# 2860
Delta R.T. -0.009 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion: 91 Resp: 33666

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.7 | 23.0 | 34.4 |



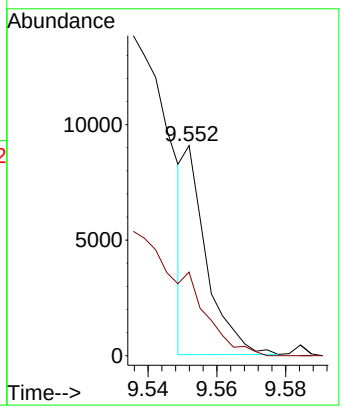


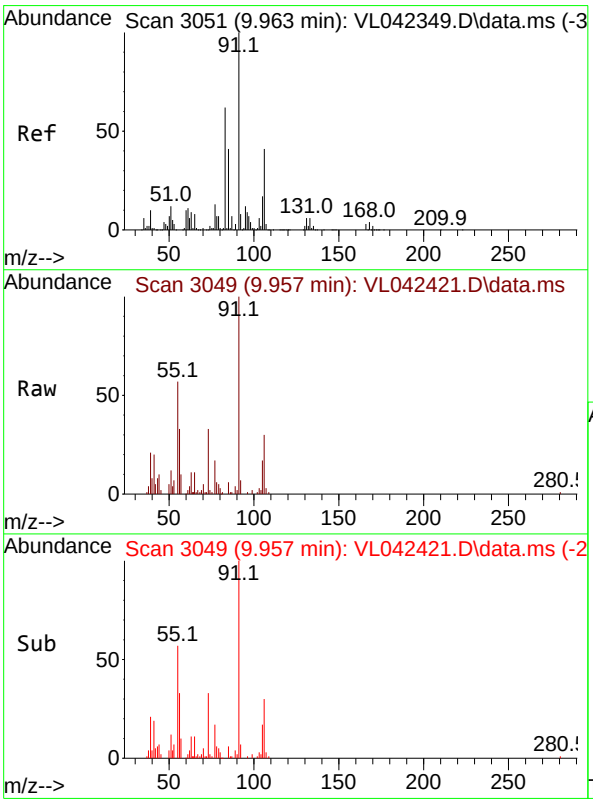

#59
m/p-Xylene
Concen: 0.075 ppbv
RT: 9.552 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-6-3242025

Tgt Ion: 91 Resp: 4106

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 0.0 | 35.4 | 53.2# |

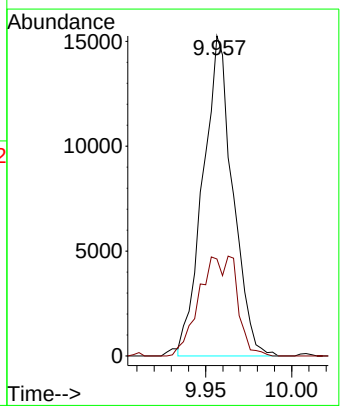


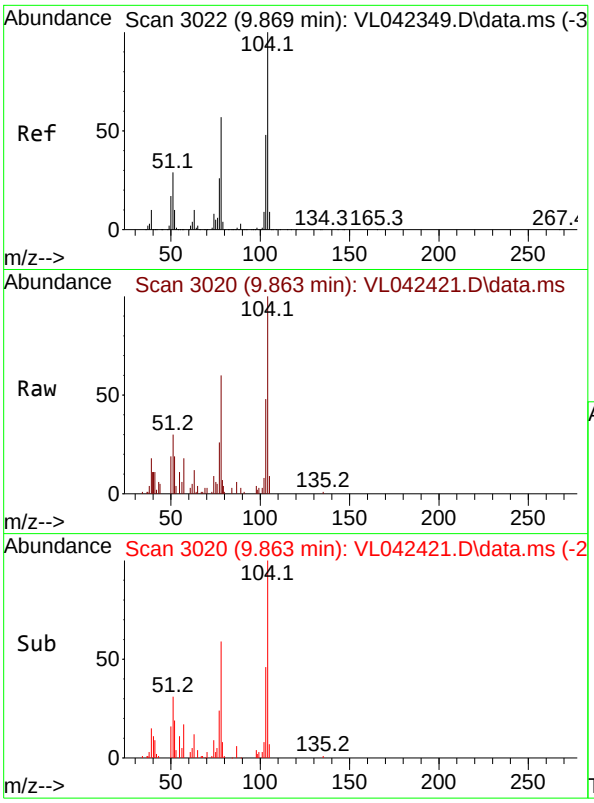




#60
o-Xylene
Concen: 0.336 ppbv
RT: 9.957 min Scan# 3049
Delta R.T. -0.006 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion: 91 Resp: 18390

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 40.3 | 21.1 | 63.4 |



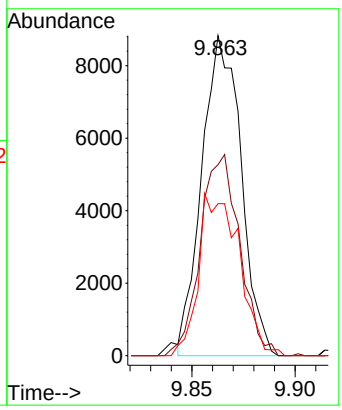


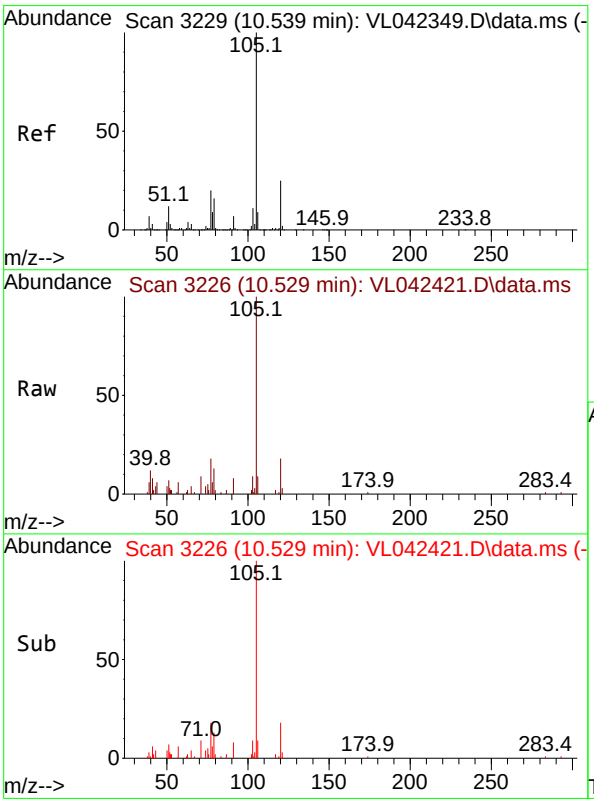

#61
Styrene
Concen: 0.446 ppbv
RT: 9.863 min Scan# 3
Delta R.T. -0.006 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-6-3242025

Tgt Ion:104 Resp: 11677

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 62.9 | 44.6 | 66.8 |
| 103 | 52.1 | 37.4 | 56.0 |

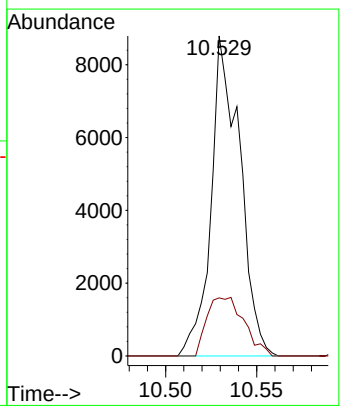


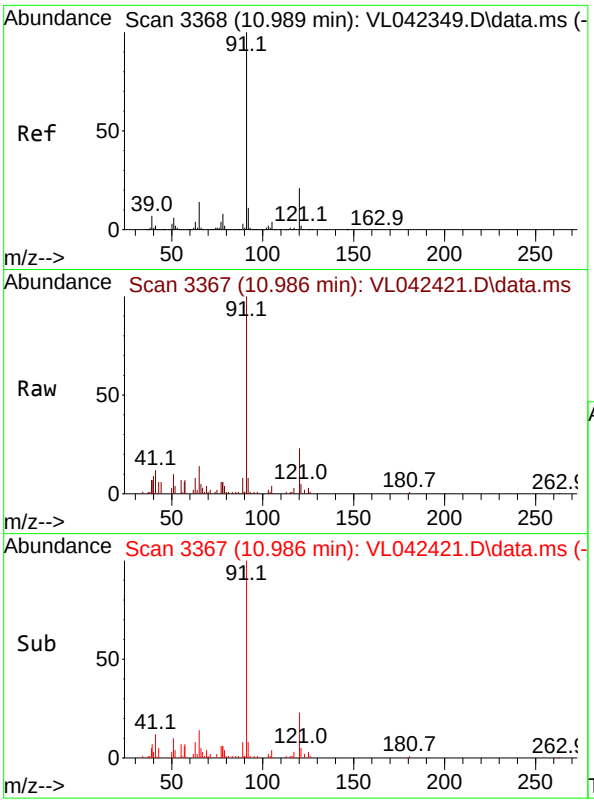




#62
Isopropylbenzene
Concen: 0.120 ppbv
RT: 10.529 min Scan# 3226
Delta R.T. -0.009 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion:105 Resp: 9651

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 23.7 | 19.8 | 29.8 |



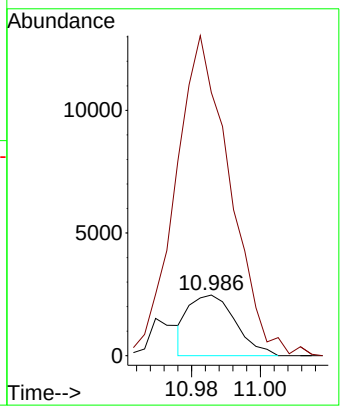


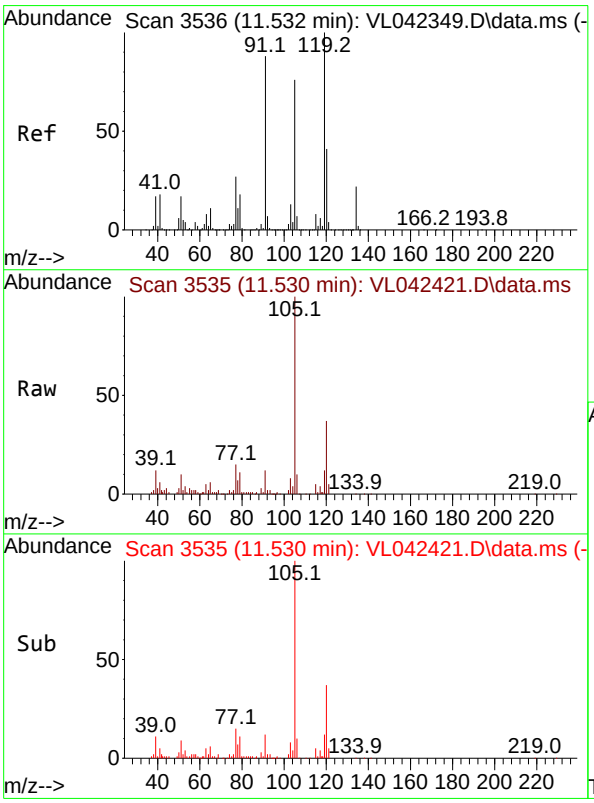

#64
n-propylbenzene
Concen: 0.115 ppbv
RT: 10.986 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-6-3242025

Tgt Ion:120 Resp: 2331

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 623.9 | 392.4 | 588.6# |

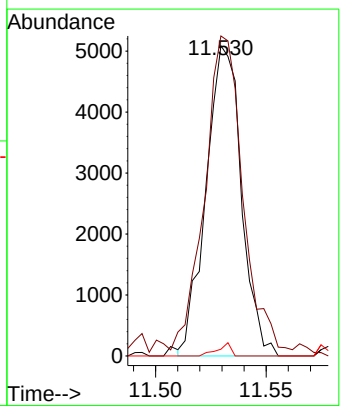


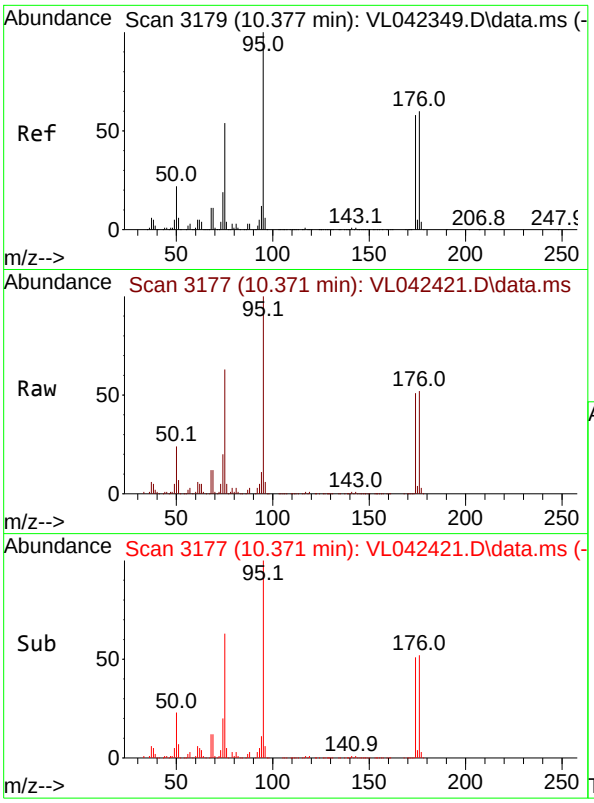




#65
tert-Butylbenzene
Concen: 0.076 ppbv
RT: 11.530 min Scan# 3535
Delta R.T. -0.003 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion:119 Resp: 5655

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 119.4 | 74.6 | 111.8# |
| 134 | 1.6 | 18.8 | 28.2# |



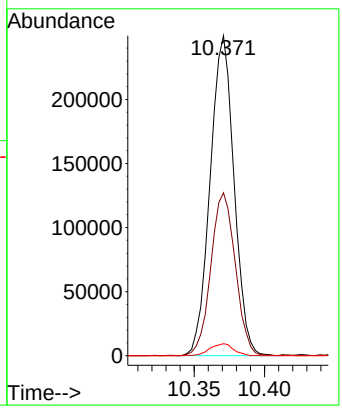


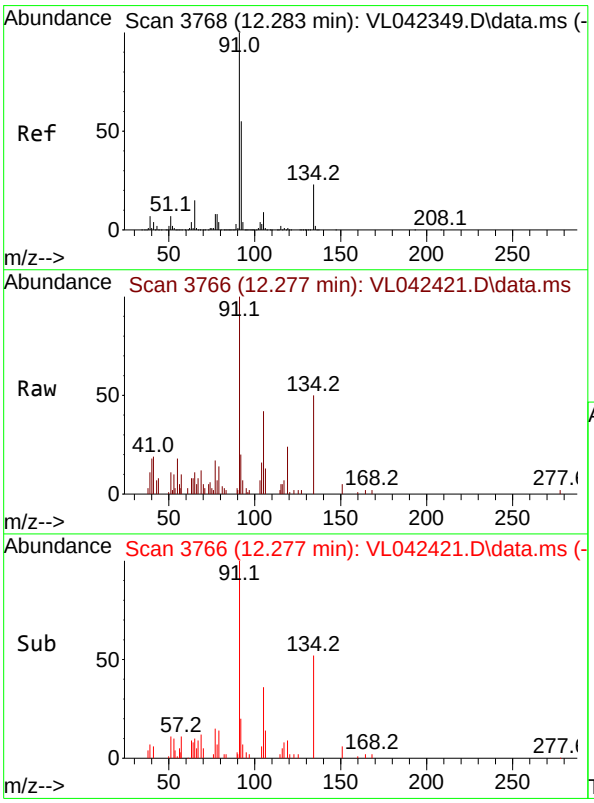

#68
1-Bromo-4-Fluorobenzene
Concen: 10.536 ppbv
RT: 10.371 min Scan# 3
Delta R.T. -0.006 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-6-3242025

Tgt Ion: 95 Resp: 295244

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 52.1 | 48.5 | 72.7 |
| 175 | 3.7 | 3.7 | 5.5 |

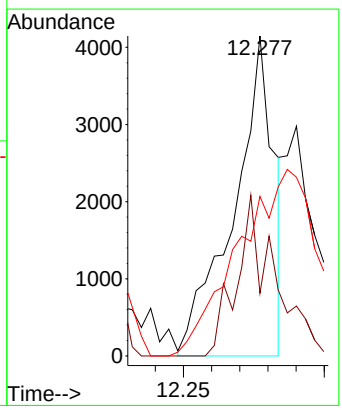


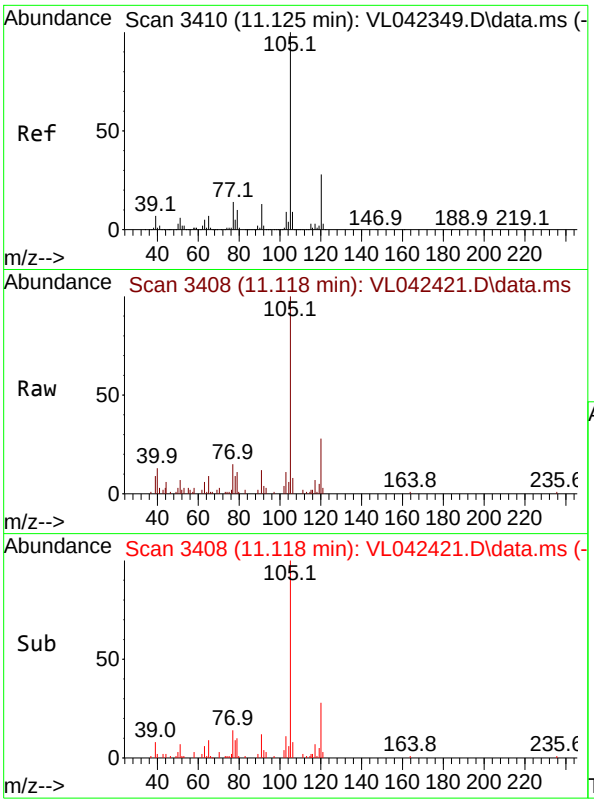




#70
n-Butylbenzene
Concen: 0.044 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. -0.006 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion: 91 Resp: 4101

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 47.7 | 44.2 | 66.4 |
| 134 | 0.0 | 18.2 | 27.4# |



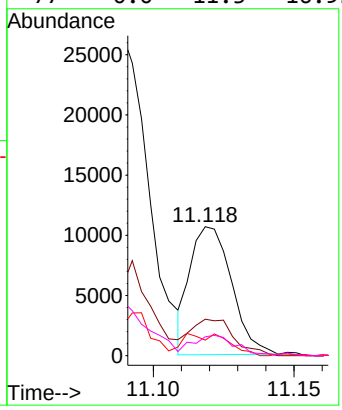


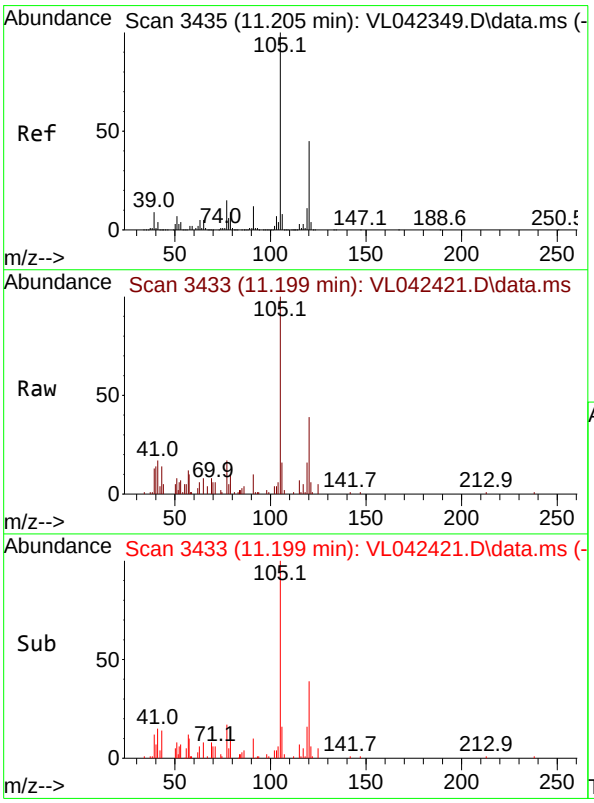

#72
4-Ethyltoluene
Concen: 0.163 ppbv
RT: 11.118 min Scan# 34
Delta R.T. -0.006 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-6-3242025

Tgt Ion:105 Resp: 10909

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 0.0 | 23.2 | 34.8# |
| 91 | 0.0 | 10.4 | 15.6# |
| 77 | 0.0 | 11.3 | 16.9# |

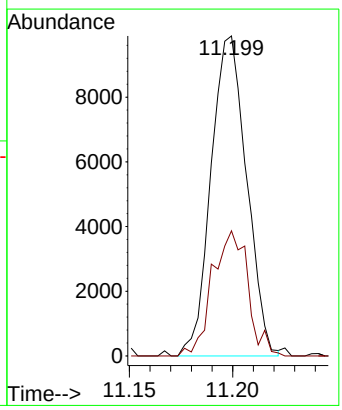


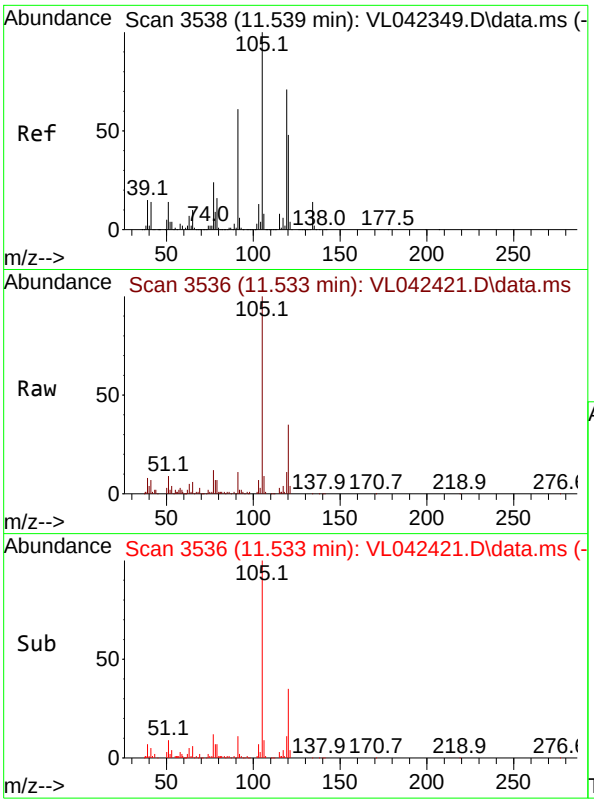




#73
1,3,5-Trimethylbenzene
Concen: 0.200 ppbv
RT: 11.199 min Scan# 3433
Delta R.T. -0.006 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion:105 Resp: 11852

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 39.1 | 35.6 | 53.4 |



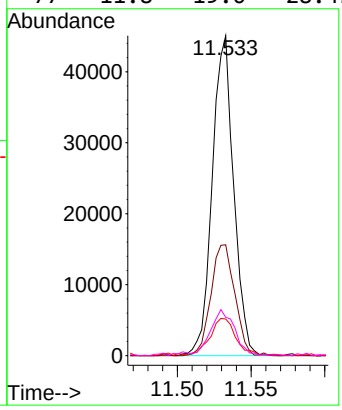


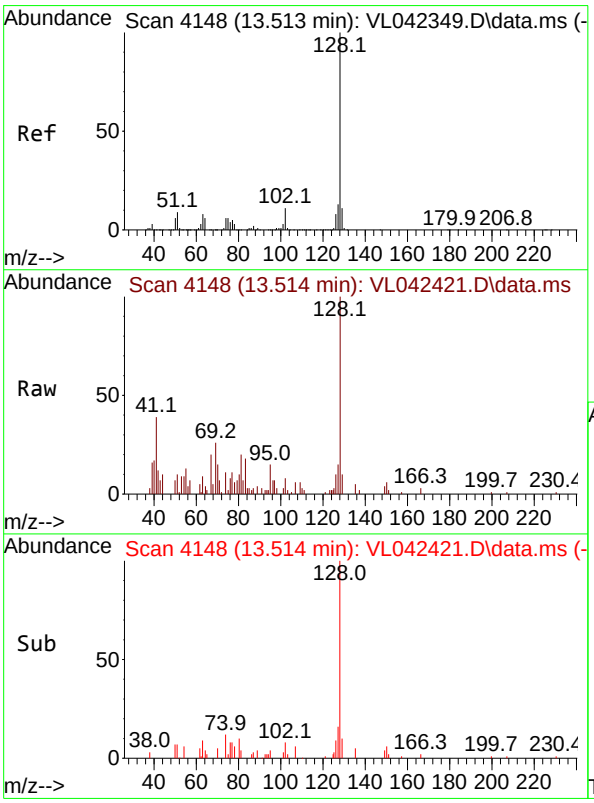

#74
1,2,4-Trimethylbenzene
Concen: 0.657 ppbv
RT: 11.533 min Scan# 3
Delta R.T. -0.006 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-6-3242025

Tgt Ion:105 Resp: 45414

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 34.6 | 38.1 | 57.1# |
| 91 | 11.1 | 48.8 | 73.2# |
| 77 | 11.8 | 19.0 | 28.4# |

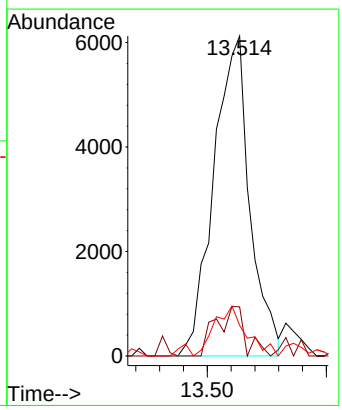


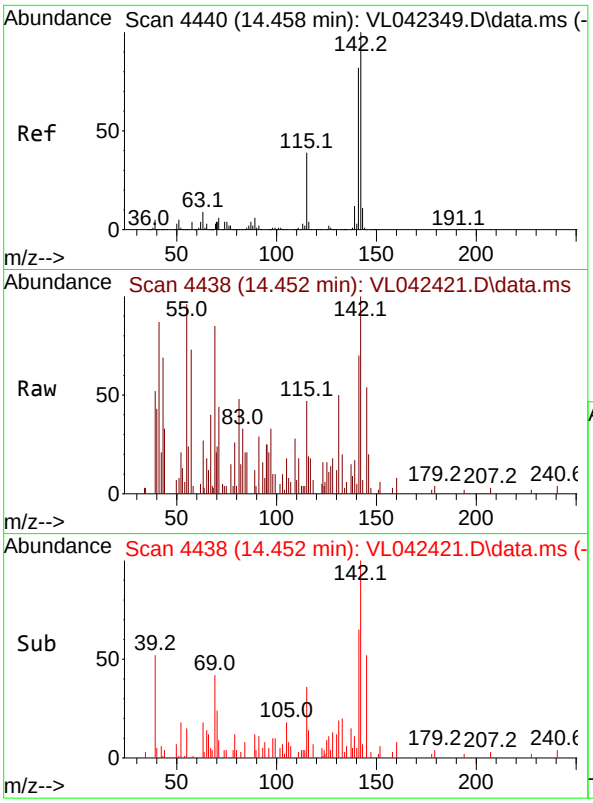




#79
Naphthalene
Concen: 0.078 ppbv
RT: 13.514 min Scan# 4148
Delta R.T. 0.000 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

Tgt Ion:128 Resp: 6445

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 15.3 | 10.6 | 15.8 |
| 129 | 9.6 | 8.6 | 12.8 |



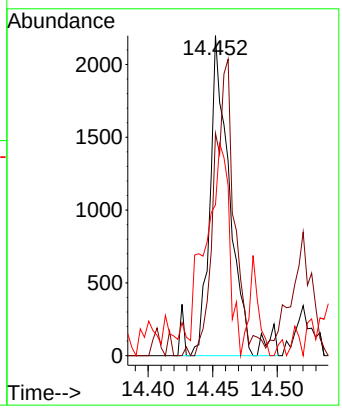



#80
Naphthalene,2-methyl-
Concen: 0.051 ppbv
RT: 14.452 min Scan# 44
Delta R.T. -0.006 min
Lab File: VL042421.D
Acq: 28 Apr 2025 12:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-6-3242025

Tgt Ion:142 Resp: 2419

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 91.8 | 66.8 | 100.2 |
| 115 | 98.7 | 33.4 | 50.2# |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042422.D
Acq On : 28 Apr 2025 12:51
Operator : SY/MD
Sample : Q1665-16
Misc : 400mL/MSVOA_L
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-5-3242025

Quant Time: Apr 29 01:35:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) Bromochloromethane | 2.780 | 49 | 143445 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.949 | 114 | 401346 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.872 | 117 | 346372 | 10.000 | ppbv | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.367 | 95 | 304530 | 10.699 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 107.000% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.495 | 85 | 10522 | 0.415 | ppbv | | 95 |
| 3) Chlorodifluoromethane | 1.473 | 51 | 12210 | 0.506 | ppbv | # | 85 |
| 4) Chloromethane | 1.528 | 50 | 10118 | 1.009 | ppbv | # | 85 |
| 6) Bromomethane | 1.657 | 94 | 391 | 0.083 | ppbv | # | 65 |
| 7) Chloroethane | 1.699 | 64 | 218 | 0.055 | ppbv | # | 1 |
| 9) Propene | 1.881 | 41 | 34854 | 3.171 | ppbv | | 89 |
| 10) Heptane | 4.968 | 43 | 10743 | 0.348 | ppbv | # | 36 |
| 11) Trichlorofluoromethane | 1.874 | 101 | 5172 | 0.215 | ppbv | | 93 |
| 12) 1,1,2-Trichlorotrifluo... | 2.130 | 101 | 1404 | 0.071 | ppbv | | 93 |
| 13) Ethanol | 1.719 | 45 | 834583 | 477.751 | ppbv | | 78 |
| 15) Acetone | 1.832 | 43 | 273996 | 11.668 | ppbv | | 98 |
| 16) 1,3-Butadiene | 1.596 | 39 | 3748 | 0.334 | ppbv | # | 41 |
| 17) tert-Butyl alcohol | 1.881 | 59 | 14338 | 0.493 | ppbv | | 94 |
| 19) Isopropyl Alcohol | 1.881 | 45 | 382160 | 29.296 | ppbv | # | 34 |
| 20) Methylene Chloride | 2.059 | 84 | 5939 | 0.646 | ppbv | # | 95 |
| 21) Allyl Chloride | 2.072 | 41 | 1537 | 0.095 | ppbv | # | 29 |
| 23) Vinyl Acetate | 2.454 | 43 | 28036 | 2.950 | ppbv | # | 87 |
| 25) Ethyl Acetate | 2.819 | 43 | 61724 | 1.066 | ppbv | # | 86 |
| 26) Hexane | 2.816 | 57 | 74514 | 3.180 | ppbv | # | 37 |
| 27) Carbon Disulfide | 2.143 | 76 | 1174 | 0.047 | ppbv | # | 1 |
| 29) Chloroform | 2.839 | 83 | 6046 | 0.183 | ppbv | # | 82 |
| 30) Cyclohexane | 3.849 | 84 | 9447 | 0.499 | ppbv | | 90 |
| 34) 2-Butanone | 2.554 | 43 | 25286 | 0.797 | ppbv | | 99 |
| 35) Carbon Tetrachloride | 3.751 | 117 | 2834 | 0.078 | ppbv | # | 70 |
| 36) Benzene | 3.645 | 78 | 29627 | 0.684 | ppbv | # | 91 |
| 37) 1,2-Dichloroethane | 3.211 | 62 | 1391 | 0.054 | ppbv | # | 88 |
| 39) 1,2-Dichloropropane | 3.949 | 63 | 109010 | 6.758 | ppbv | # | 23 |
| 40) 1,4-Dioxane | 4.606 | 88 | 398 | 0.045 | ppbv | # | 21 |
| 41) Tetrahydrofuran | 3.052 | 42 | 900 | 0.049 | ppbv | # | 35 |
| 44) 2,2,4-Trimethylpentane | 4.632 | 57 | 38897 | 0.520 | ppbv | # | 12 |
| 53) Toluene | 6.923 | 91 | 350451 | 6.746 | ppbv | | 99 |
| 58) Ethyl Benzene | 9.348 | 91 | 39720 | 0.579 | ppbv | | 94 |
| 59) m/p-Xylene | 9.522 | 91 | 108081 | 1.955 | ppbv | | 97 |
| 60) o-Xylene | 9.956 | 91 | 38480 | 0.691 | ppbv | | 95 |
| 61) Styrene | 9.862 | 104 | 6199 | 0.233 | ppbv | | 99 |
| 62) Isopropylbenzene | 10.532 | 105 | 4427 | 0.054 | ppbv | | 91 |
| 64) n-propylbenzene | 10.982 | 120 | 2864 | 0.139 | ppbv | # | 46 |
| 65) tert-Butylbenzene | 11.875 | 119 | 2272 | 0.030 | ppbv | | 90 |
| 69) p-Isopropyltoluene | 11.921 | 119 | 17184 | 0.189 | ppbv | | 98 |
| 71) 2-Chlorotoluene | 10.895 | 91 | 20426 | 0.319 | ppbv | | 94 |
| 72) 4-Ethyltoluene | 11.118 | 105 | 16614 | 0.244 | ppbv | # | 56 |
| 73) 1,3,5-Trimethylbenzene | 11.199 | 105 | 16186 | 0.269 | ppbv | | 92 |
| 74) 1,2,4-Trimethylbenzene | 11.529 | 105 | 53644 | 0.764 | ppbv | # | 61 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042422.D
Acq On : 28 Apr 2025 12:51
Operator : SY/MD
Sample : Q1665-16
Misc : 400mL/MSVOA_L
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-5-3242025

Quant Time: Apr 29 01:35:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

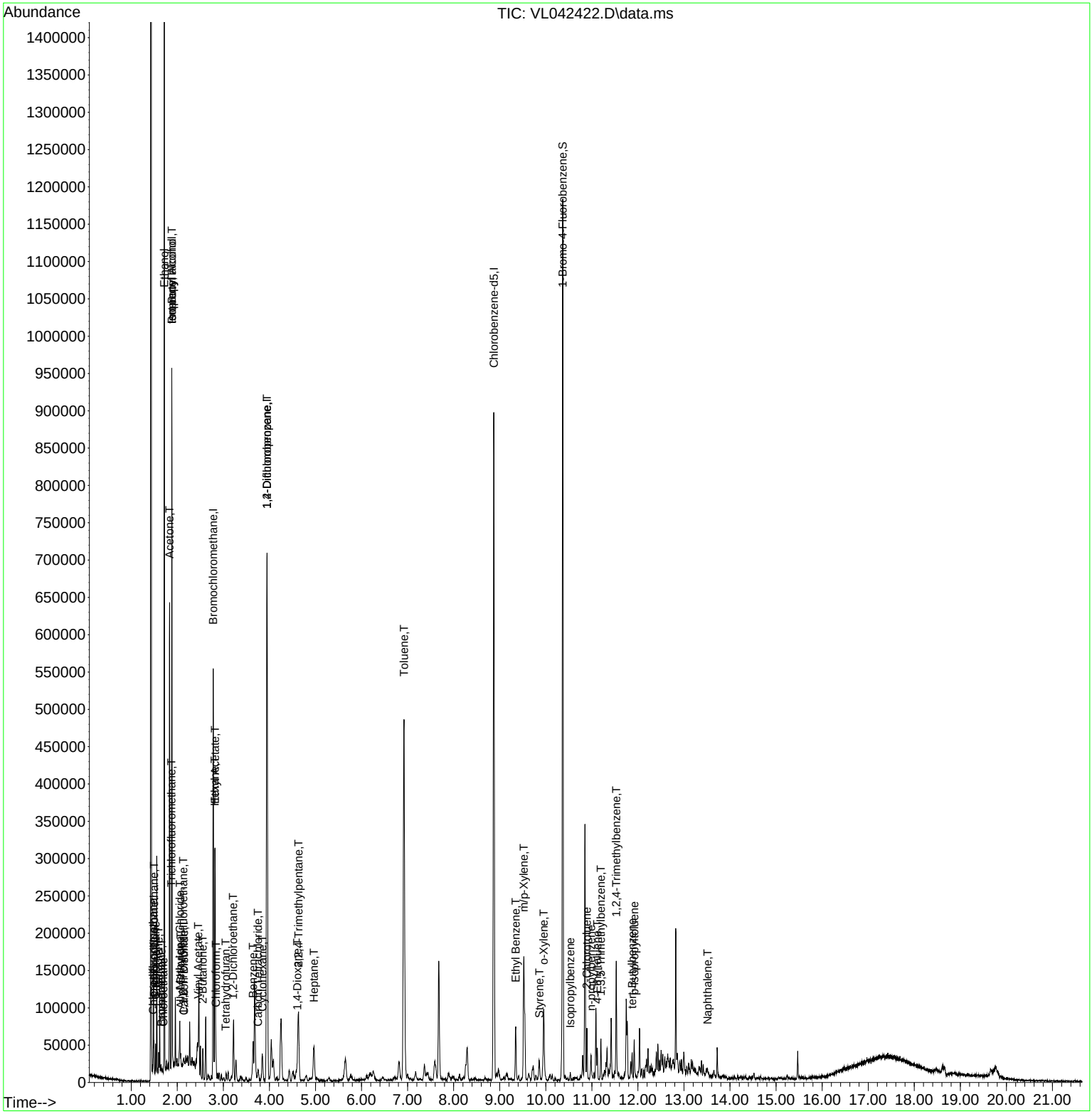
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 79) Naphthalene | 13.510 | 128 | 3307 | 0.039 | ppbv # | 88 |

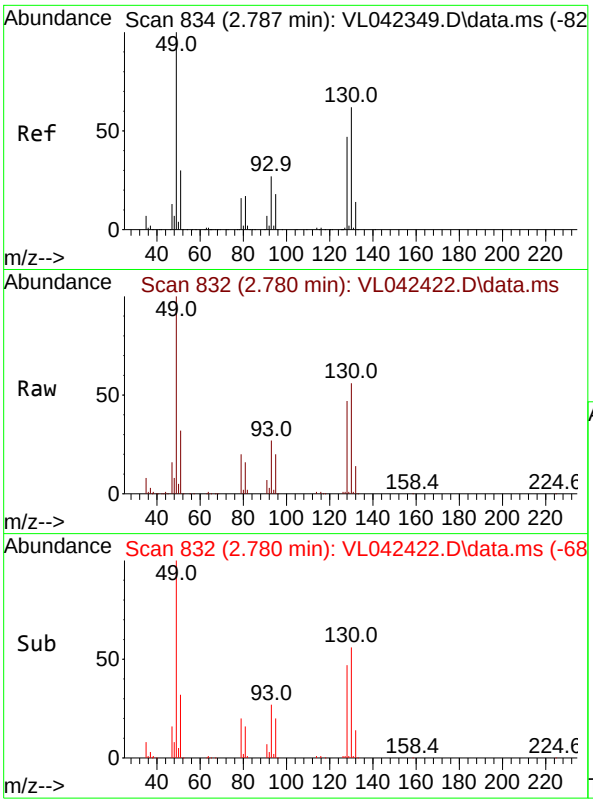
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042422.D
Acq On : 28 Apr 2025 12:51
Operator : SY/MD
Sample : Q1665-16
Misc : 400mL/MSVOA_L
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-5-3242025

Quant Time: Apr 29 01:35:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration



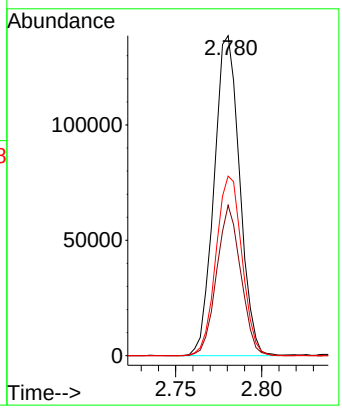


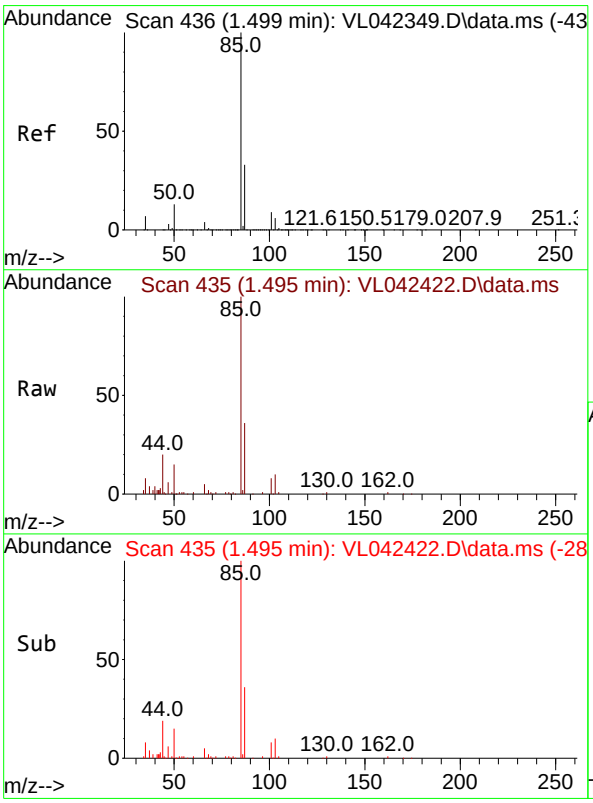

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.780 min Scan# 8
Delta R.T. -0.007 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-5-3242025

Tgt Ion: 49 Resp: 143445

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 44.3 | 22.8 | 68.4 |
| 130 | 57.0 | 29.3 | 88.0 |

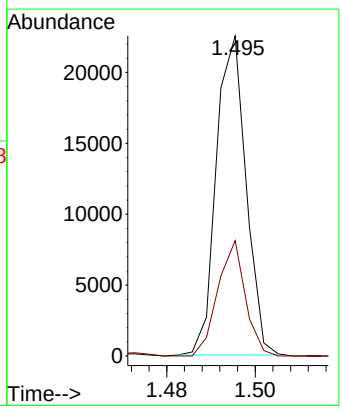


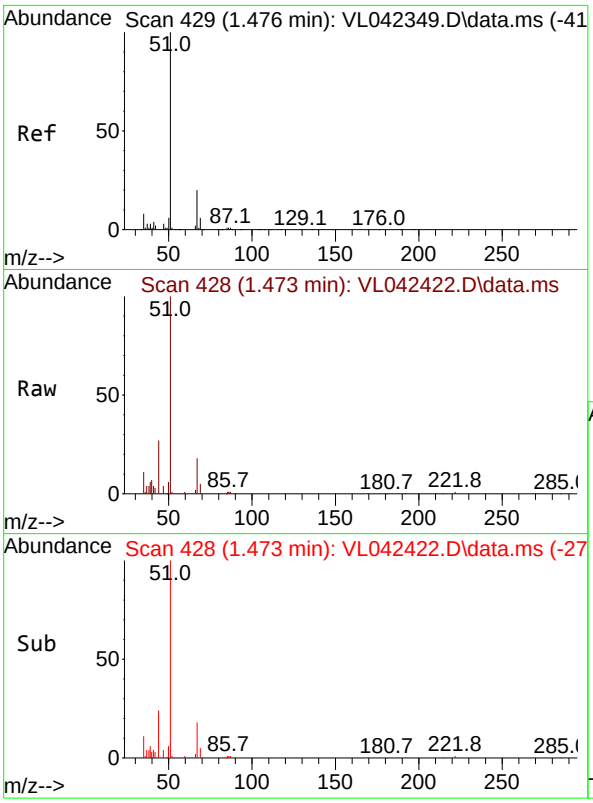




#2
Dichlorodifluoromethane
Concen: 0.415 ppbv
RT: 1.495 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion: 85 Resp: 10522

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 36.2 | 26.6 | 39.8 |



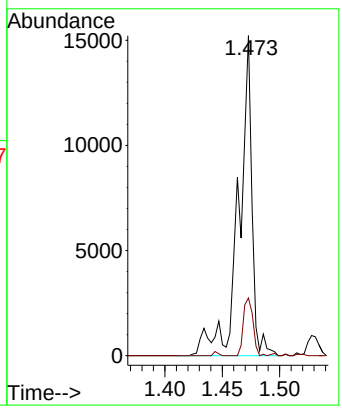


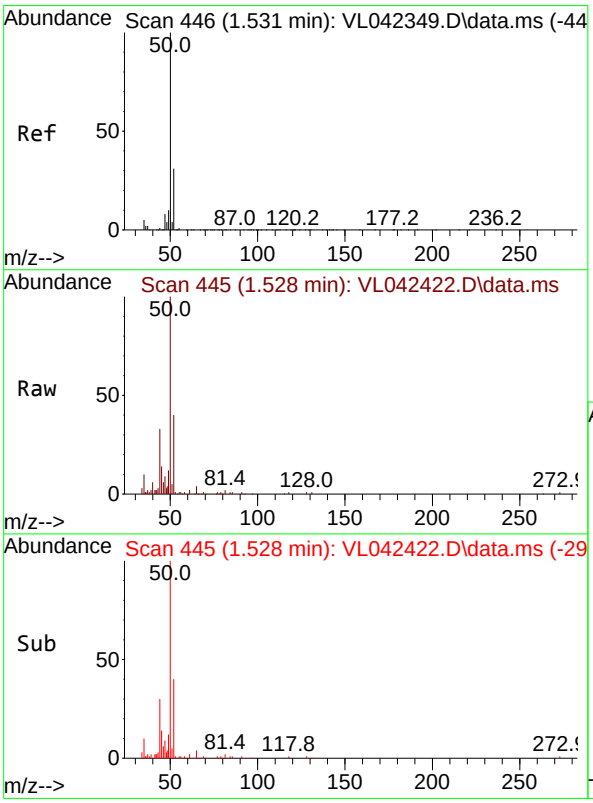

#3
Chlorodifluoromethane
Concen: 0.506 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-5-3242025

Tgt Ion: 51 Resp: 12210

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 13.3 | 16.2 | 24.4# |

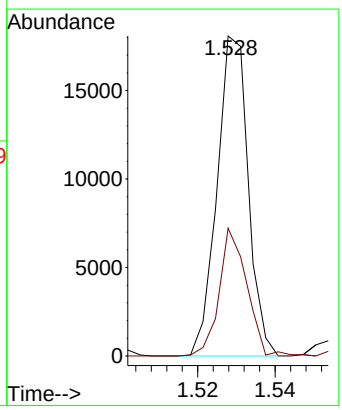


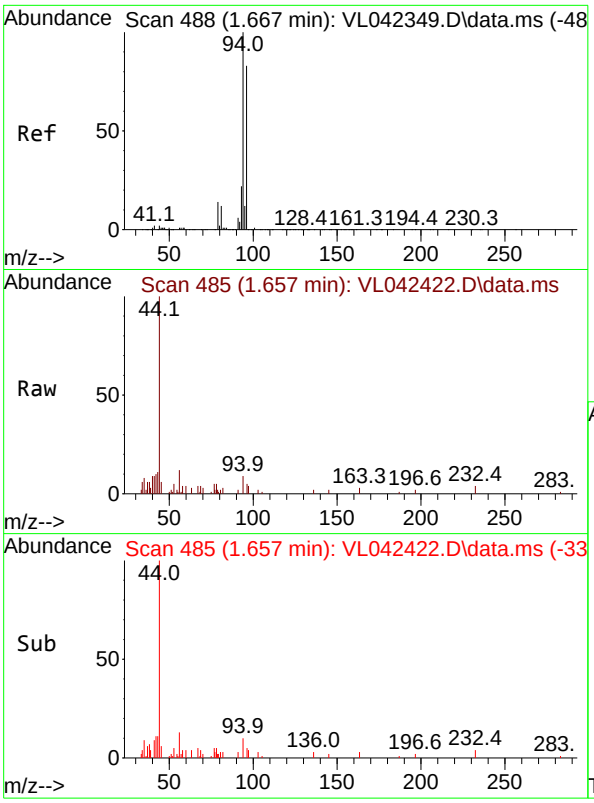




#4
Chloromethane
Concen: 1.009 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.003 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion: 50 Resp: 10118

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 39.3 | 24.7 | 37.1# |



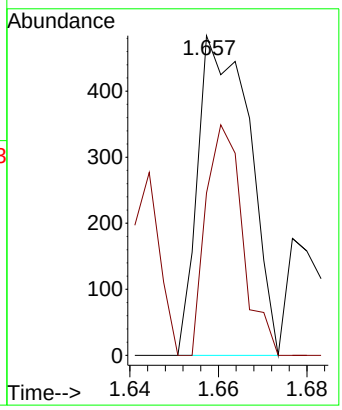


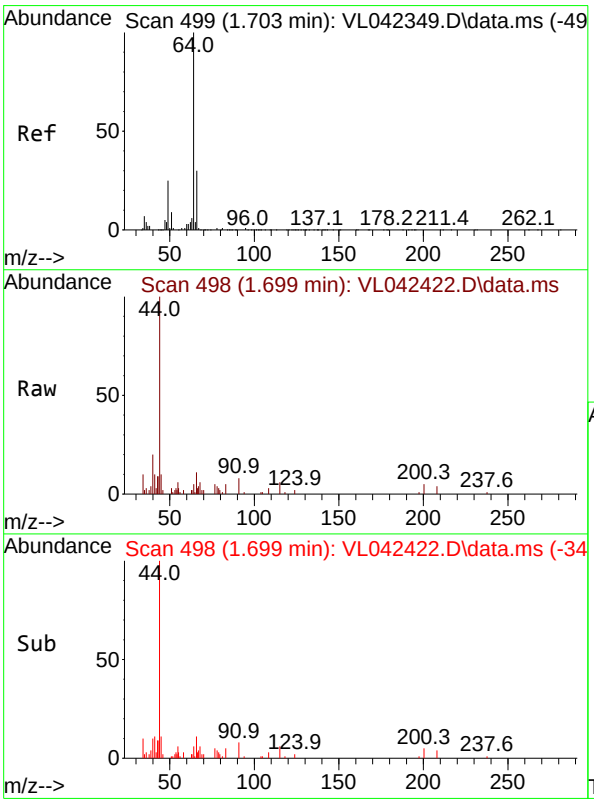

#6
Bromomethane
Concen: 0.083 ppbv
RT: 1.657 min Scan# 4
Delta R.T. -0.010 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-5-3242025

Tgt Ion: 94 Resp: 391

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 50.8 | 66.2 | 99.2# |

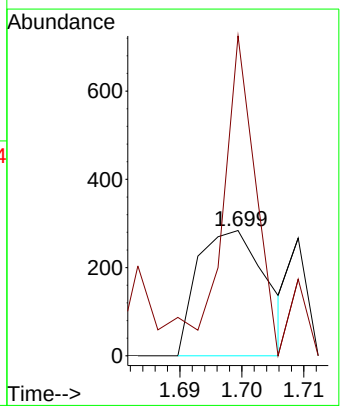


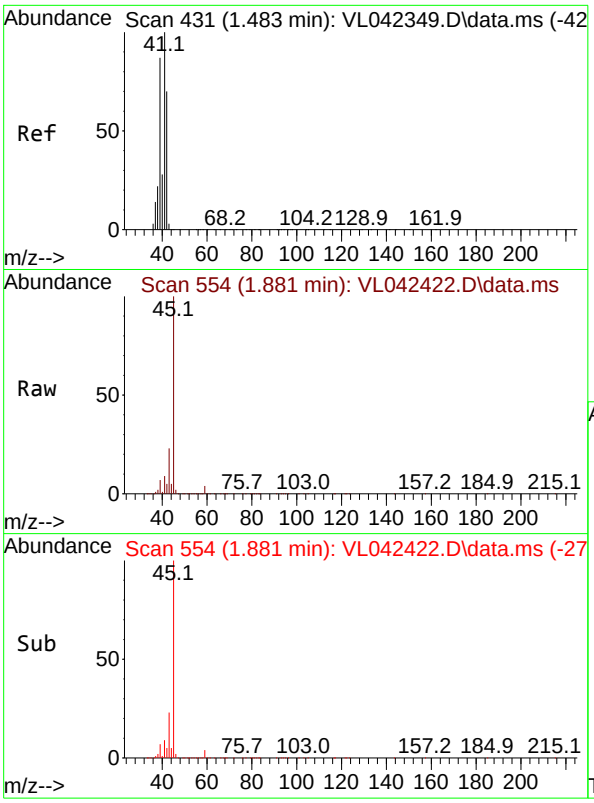




#7
Chloroethane
Concen: 0.055 ppbv
RT: 1.699 min Scan# 498
Delta R.T. -0.003 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion: 64 Resp: 218

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 212.0 | 24.6 | 37.0# |



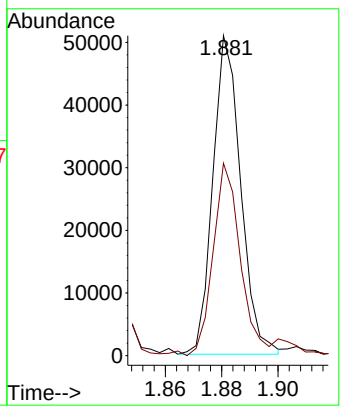


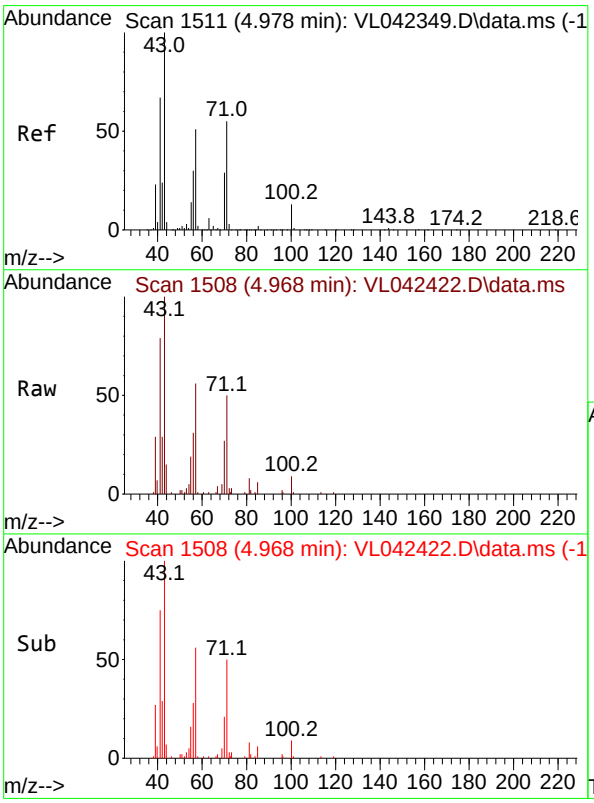

#9
Propene
Concen: 3.171 ppbv
RT: 1.881 min Scan# 5
Delta R.T. 0.398 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-5-3242025

Tgt Ion: 41 Resp: 34854

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 61.6 | 56.2 | 84.4 |

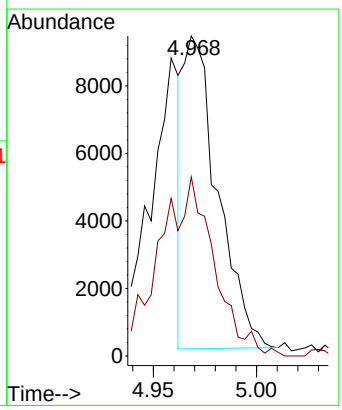


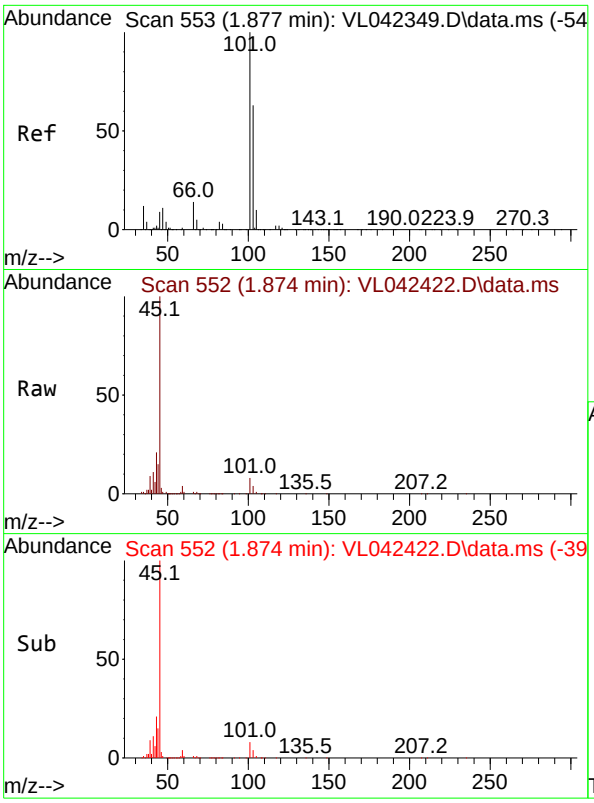




#10
Heptane
Concen: 0.348 ppbv
RT: 4.968 min Scan# 1508
Delta R.T. -0.010 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion: 43 Resp: 10743

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 93.6 | 39.9 | 59.9# |



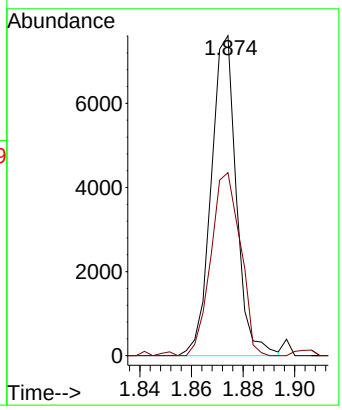


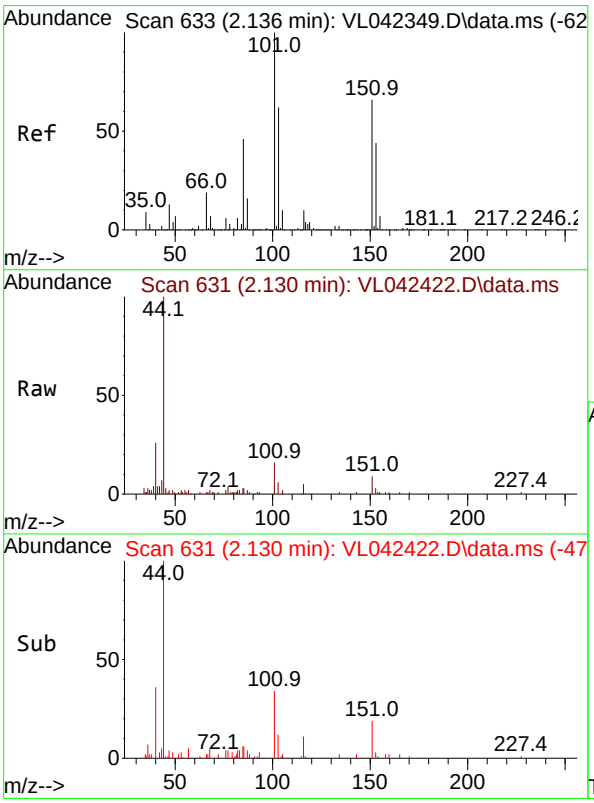

#11
Trichlorofluoromethane
Concen: 0.215 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-5-3242025

Tgt Ion:101 Resp: 5172

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 57.2 | 50.1 | 75.1 |

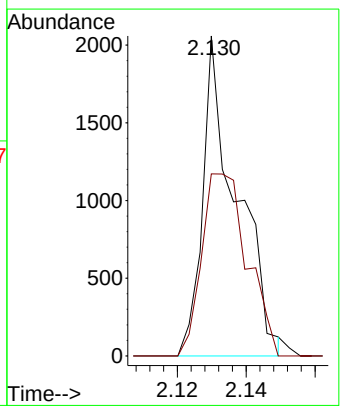


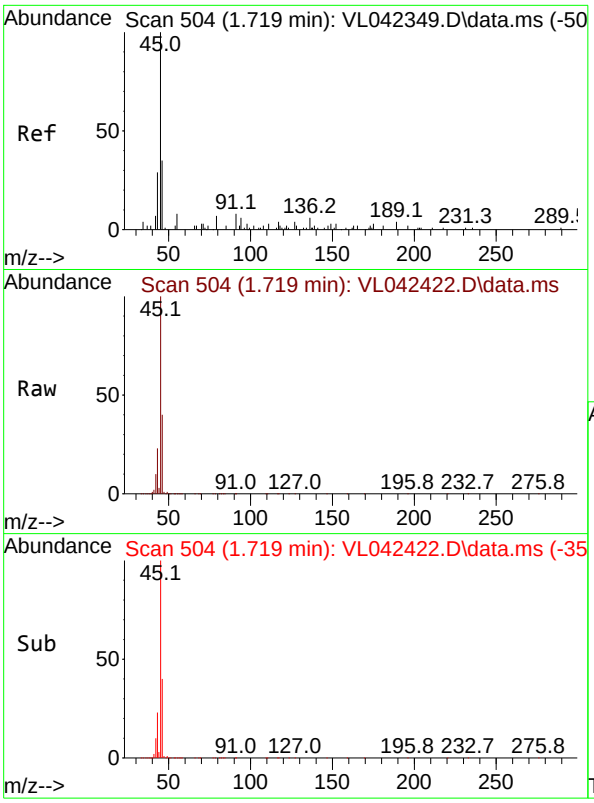




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.071 ppbv
RT: 2.130 min Scan# 631
Delta R.T. -0.007 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion:101 Resp: 1404

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 76.8 | 57.0 | 85.6 |



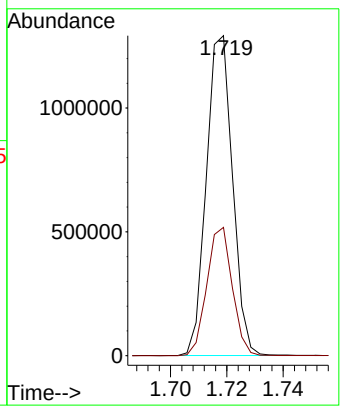


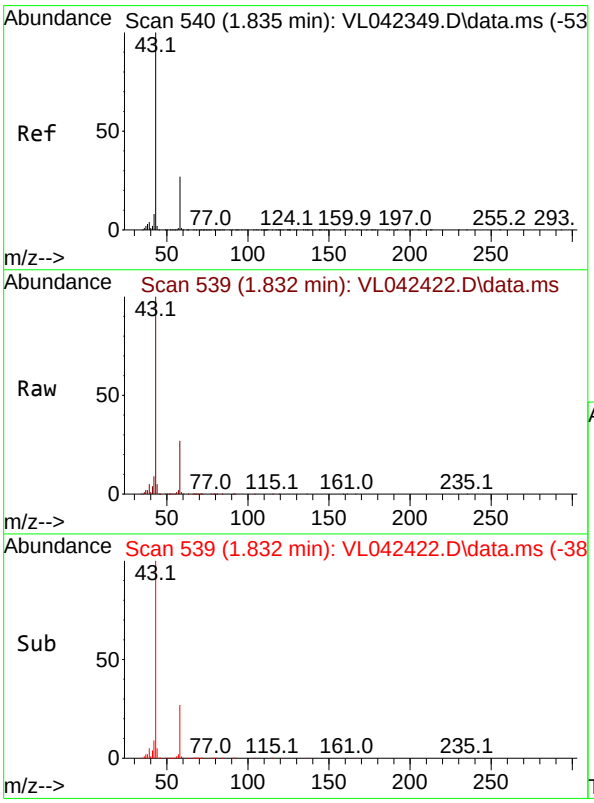

#13
Ethanol
Concen: 477.751 ppbv
RT: 1.719 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-5-3242025

Tgt Ion: 45 Resp: 834583

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 39.0 | 21.9 | 87.7 |

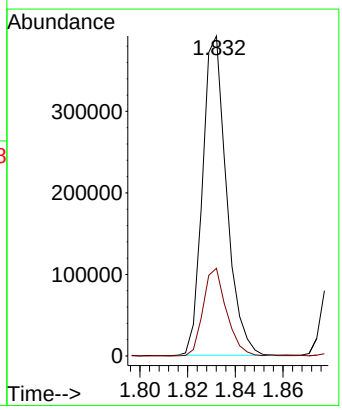


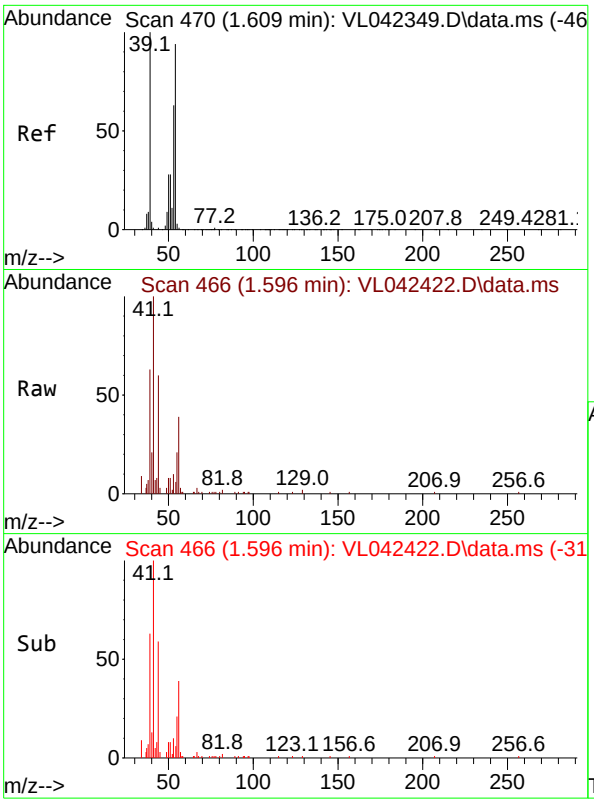




#15
Acetone
Concen: 11.668 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.003 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion: 43 Resp: 273996

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 27.0 | 22.4 | 33.6 |



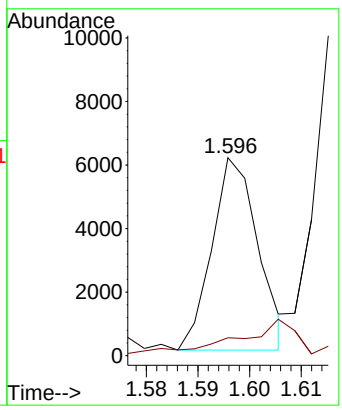


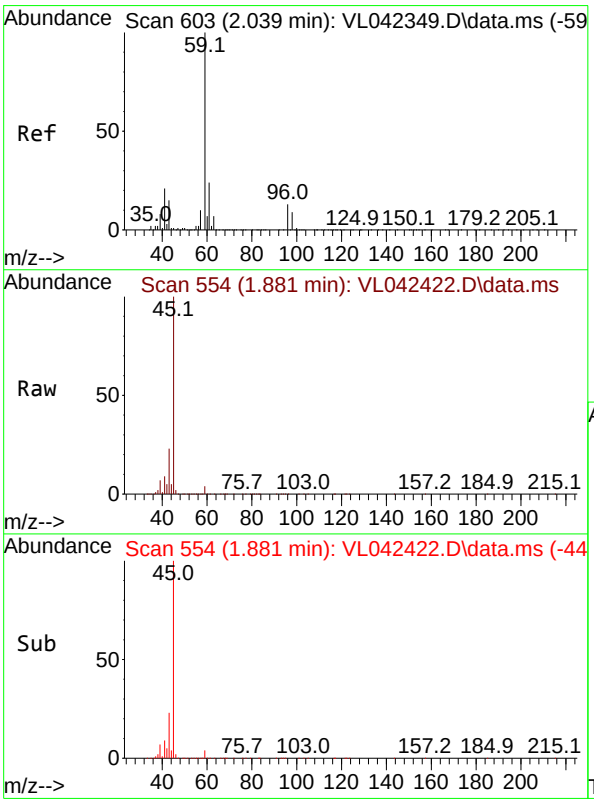

#16
1,3-Butadiene
Concen: 0.334 ppbv
RT: 1.596 min Scan# 4
Delta R.T. -0.013 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-5-3242025

Tgt Ion: 39 Resp: 3748

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 28.5 | 64.9 | 97.3# |

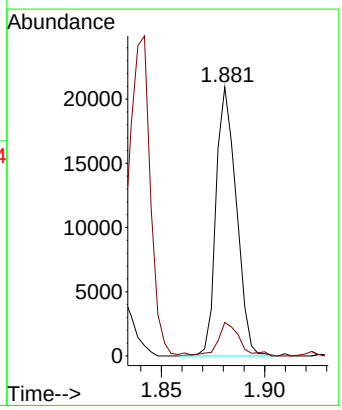


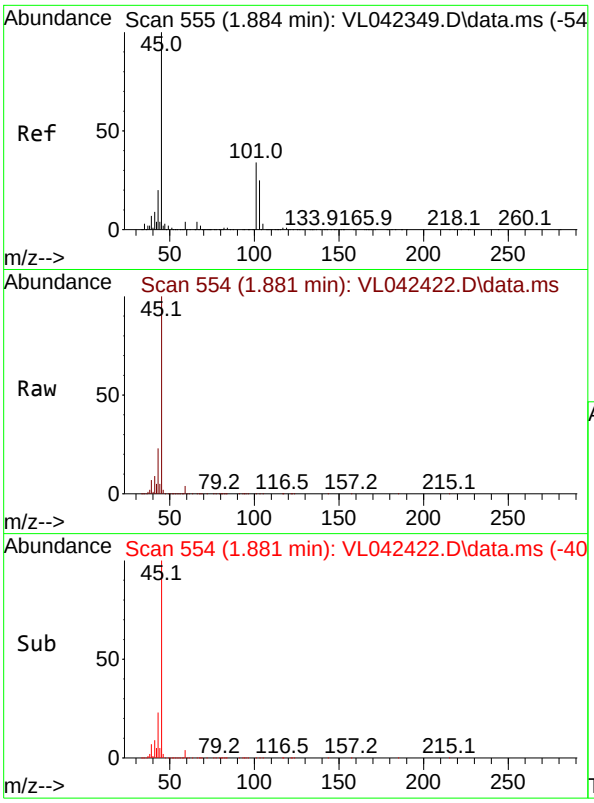




#17
tert-Butyl alcohol
Concen: 0.493 ppbv
RT: 1.881 min Scan# 554
Delta R.T. -0.159 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion: 59 Resp: 14338

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 13.1 | 8.7 | 13.1 |



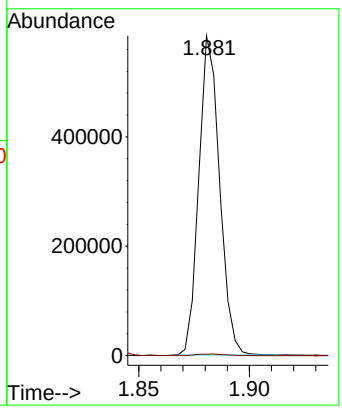


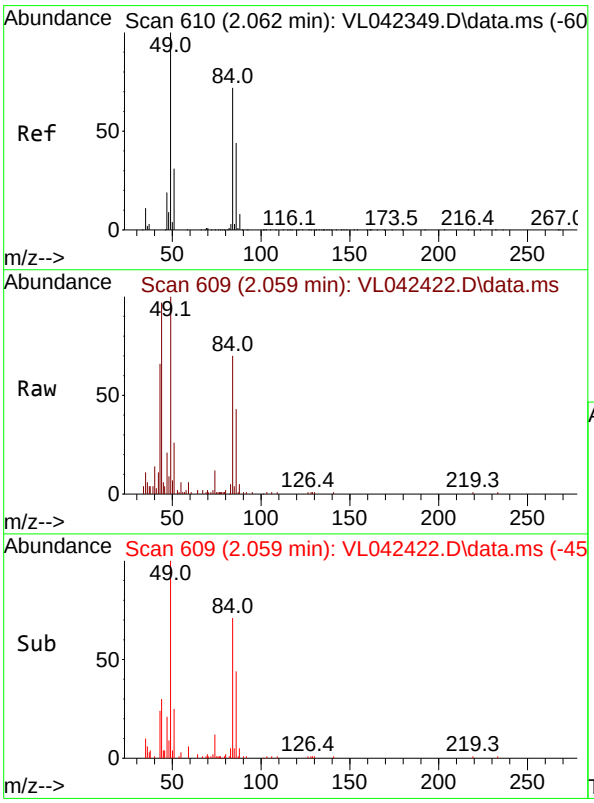

#19
Isopropyl Alcohol
Concen: 29.296 ppbv
RT: 1.881 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-5-3242025

Tgt Ion: 45 Resp: 382160

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 0.8 | 34.5 | 51.7# |

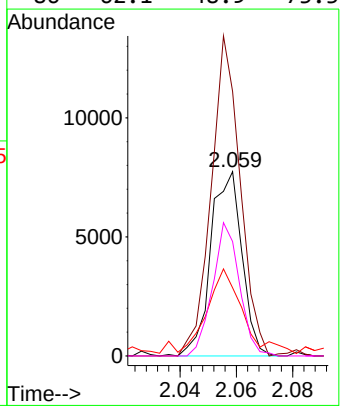


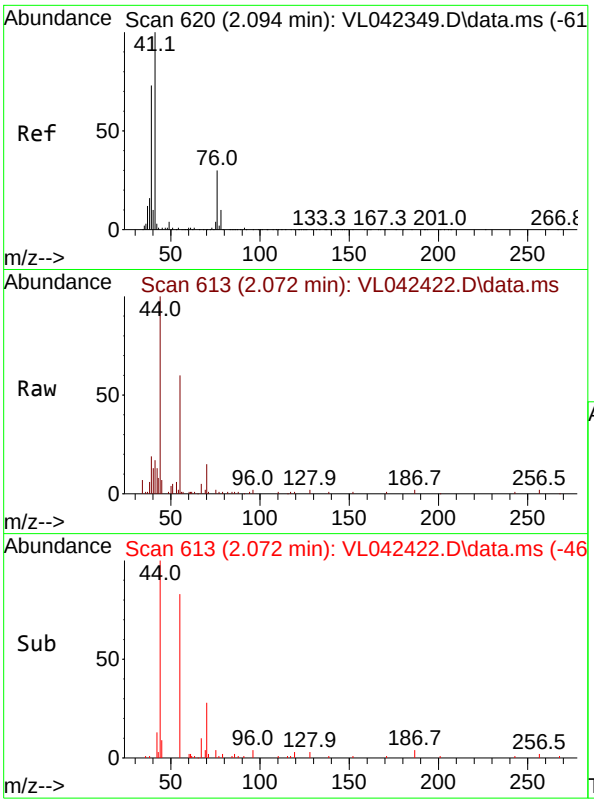




#20
Methylene Chloride
Concen: 0.646 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion: 84 Resp: 5939

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 143.4 | 111.6 | 167.4 |
| 51 | 35.0 | 35.1 | 52.7# |
| 86 | 62.1 | 48.9 | 73.3 |



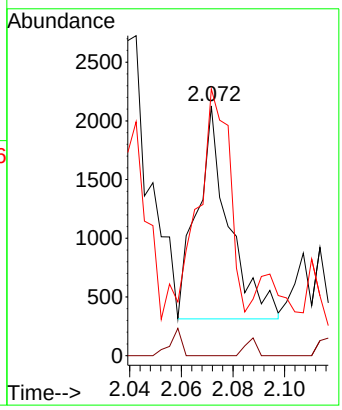


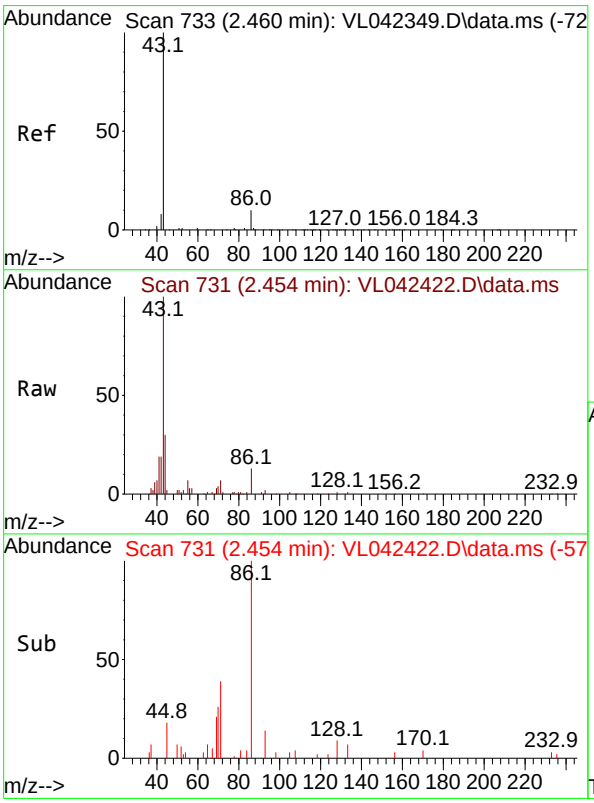

#21
Allyl Chloride
Concen: 0.095 ppbv
RT: 2.072 min Scan# 61
Delta R.T. -0.023 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-5-3242025

Tgt Ion: 41 Resp: 1537

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 4.6 | 24.8 | 37.2# |
| 39 | 144.6 | 60.6 | 90.8# |

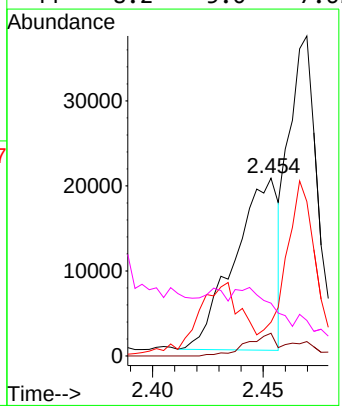


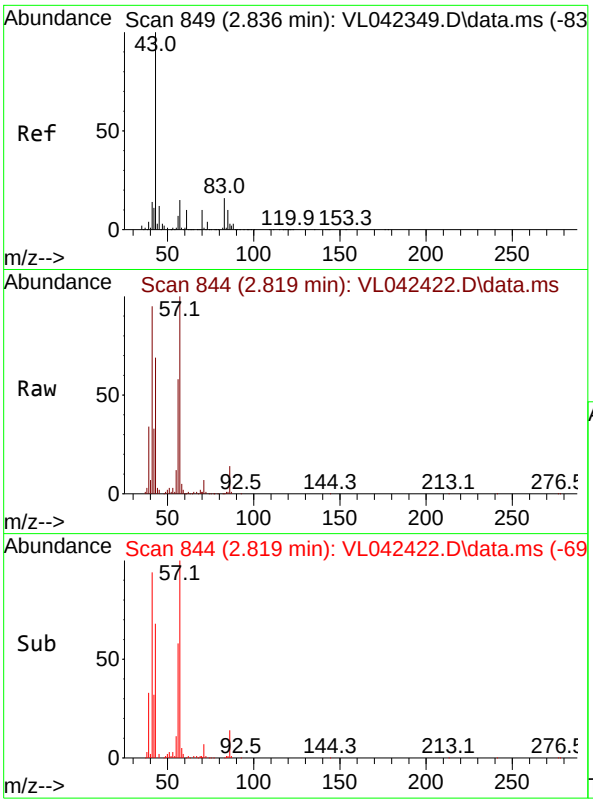




#23
Vinyl Acetate
Concen: 2.950 ppbv
RT: 2.454 min Scan# 731
Delta R.T. -0.007 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion: 43 Resp: 28036

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 13.3 | 6.5 | 9.7# |
| 42 | 15.9 | 7.8 | 11.8# |
| 44 | 8.2 | 5.0 | 7.6# |



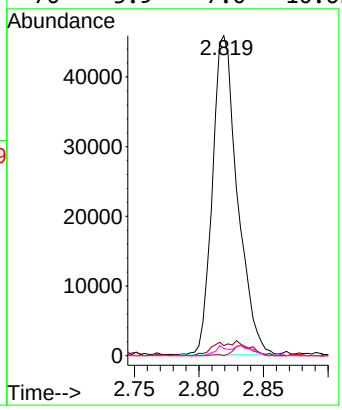


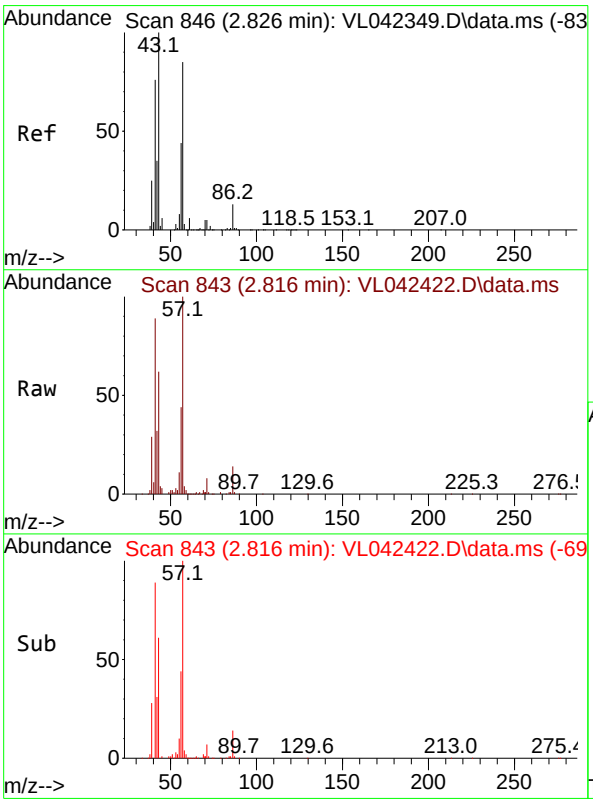

#25
Ethyl Acetate
Concen: 1.066 ppbv
RT: 2.819 min Scan# 84
Delta R.T. -0.016 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-5-3242025

Tgt Ion: 43 Resp: 61724

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 6.3 | 8.3 | 12.5# |
| 61 | 2.5 | 7.3 | 10.9# |
| 70 | 3.9 | 7.0 | 10.6# |

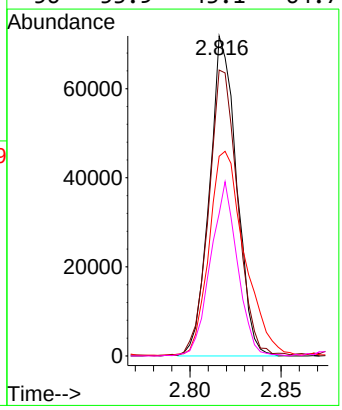


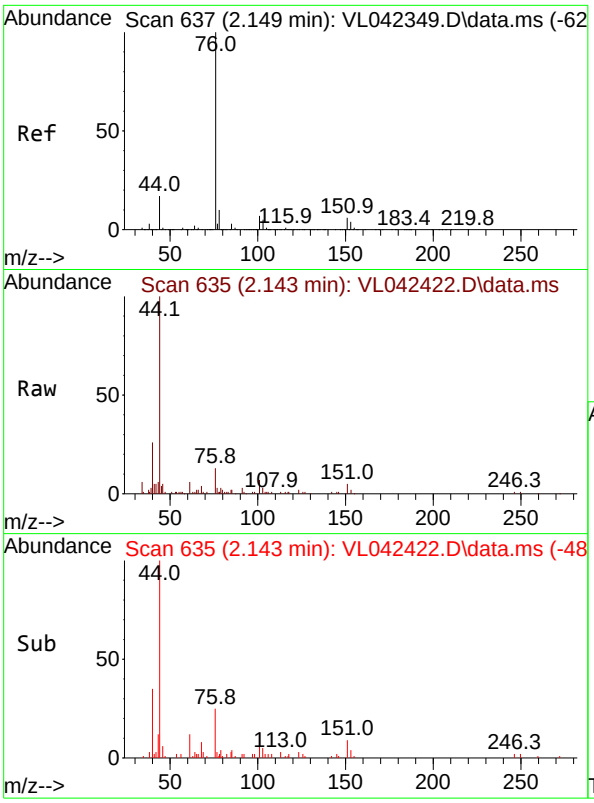




#26
Hexane
Concen: 3.180 ppbv
RT: 2.816 min Scan# 843
Delta R.T. -0.010 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion: 57 Resp: 74514

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 95.0 | 77.9 | 116.9 |
| 43 | 82.5 | 208.4 | 312.6# |
| 56 | 53.9 | 43.1 | 64.7 |



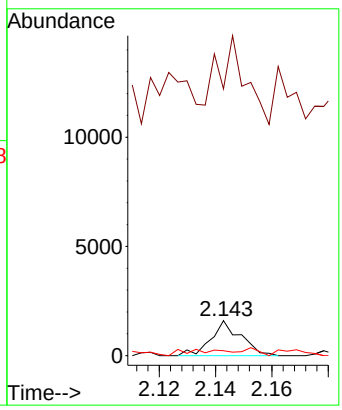


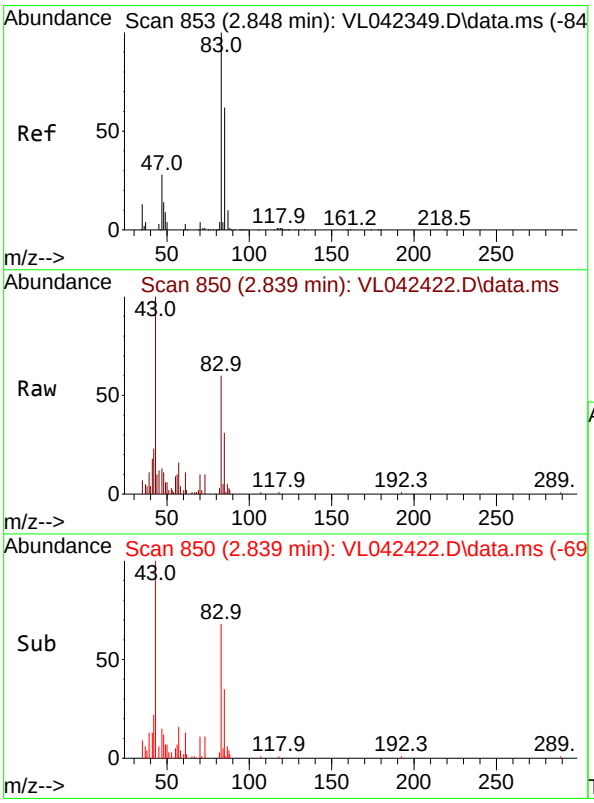

#27
Carbon Disulfide
Concen: 0.047 ppbv
RT: 2.143 min Scan# 6
Delta R.T. -0.007 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-5-3242025

Tgt Ion: 76 Resp: 1174

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 1071.4 | 15.5 | 23.3# |
| 78 | 36.2 | 9.3 | 13.9# |

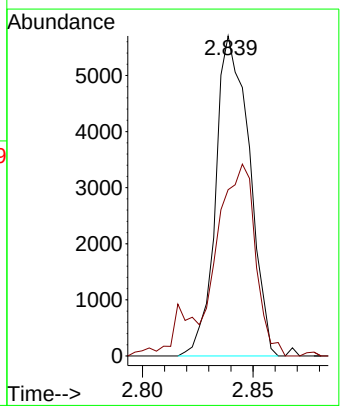


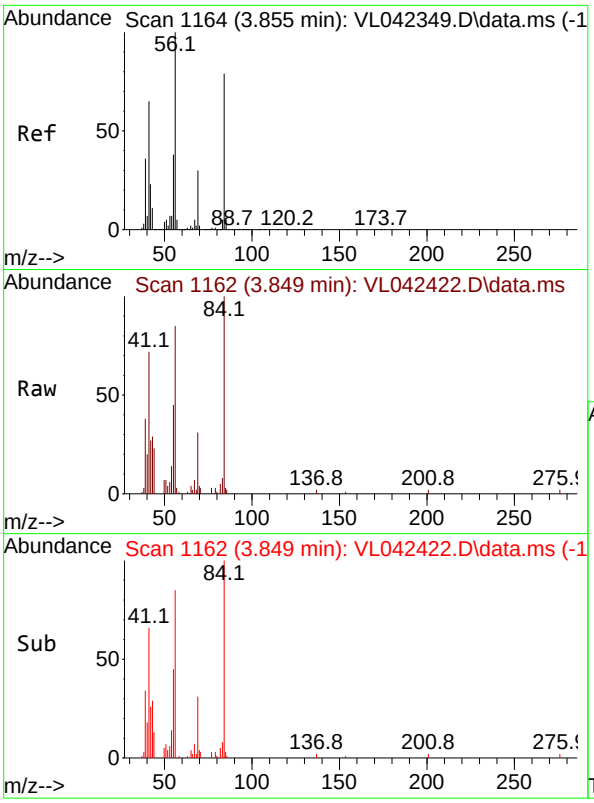




#29
Chloroform
Concen: 0.183 ppbv
RT: 2.839 min Scan# 850
Delta R.T. -0.010 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion: 83 Resp: 6046

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 49.0 | 50.0 | 75.0# |



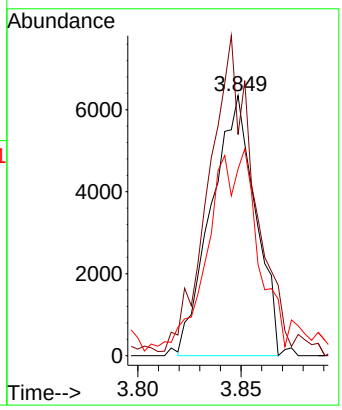


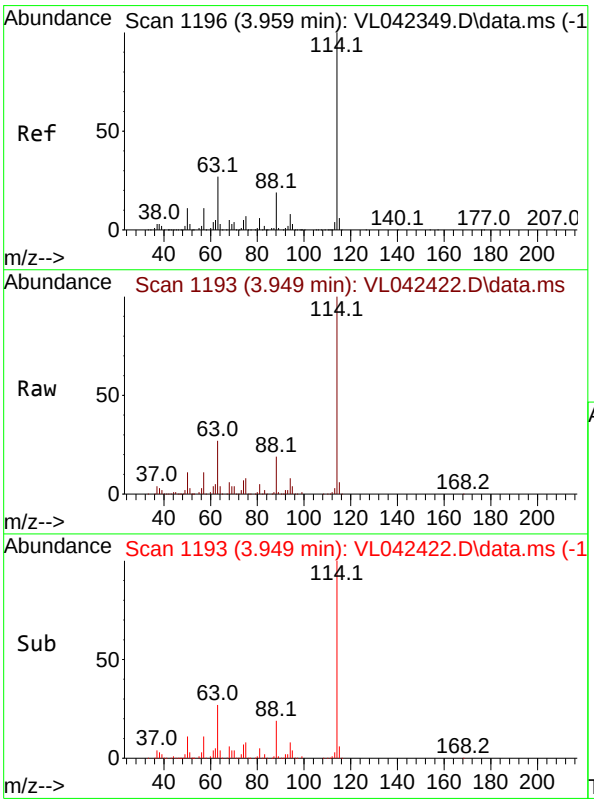

#30
Cyclohexane
Concen: 0.499 ppbv
RT: 3.849 min Scan# 11
Delta R.T. -0.007 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-5-3242025

Tgt Ion: 84 Resp: 9447

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 135.0 | 101.0 | 151.4 |
| 41 | 96.3 | 67.4 | 101.0 |

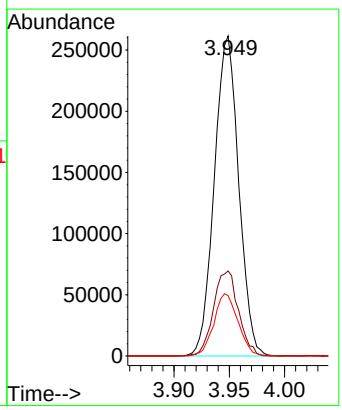


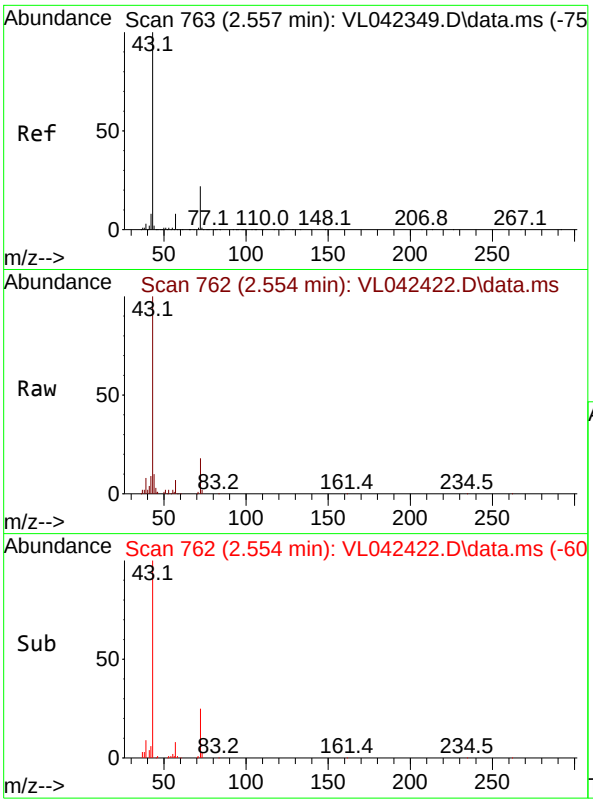




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. -0.010 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion:114 Resp: 401346

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 27.2 | 21.8 | 32.6 |
| 88 | 19.2 | 15.5 | 23.3 |



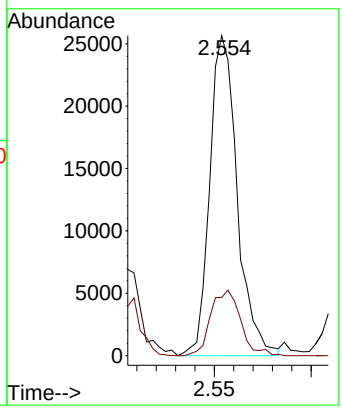


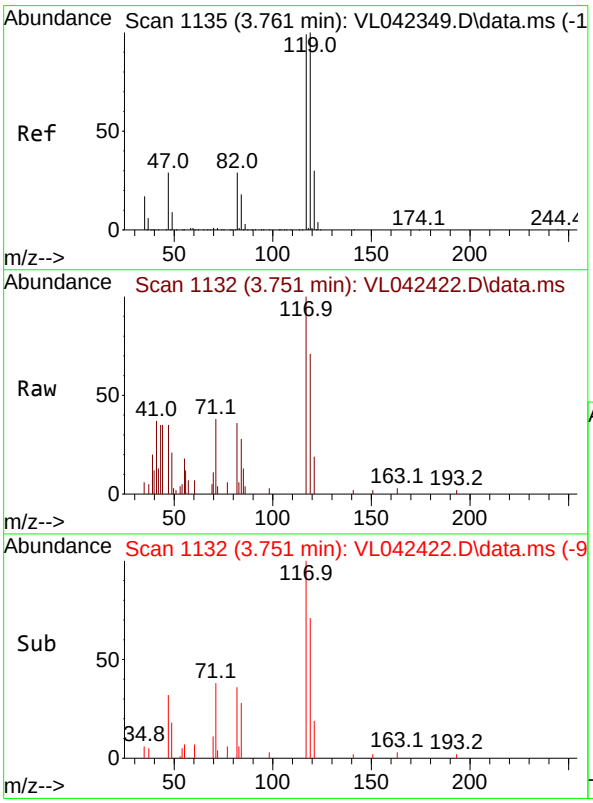

#34
2-Butanone
Concen: 0.797 ppbv
RT: 2.554 min Scan# 7
Delta R.T. -0.003 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-5-3242025

Tgt Ion: 43 Resp: 25286

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 22.2 | 18.2 | 27.2 |

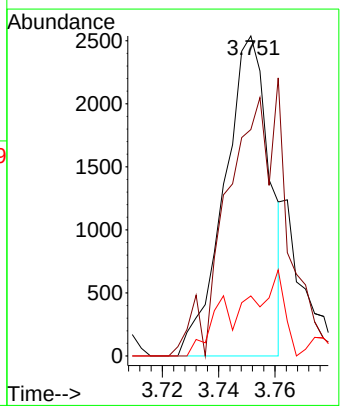


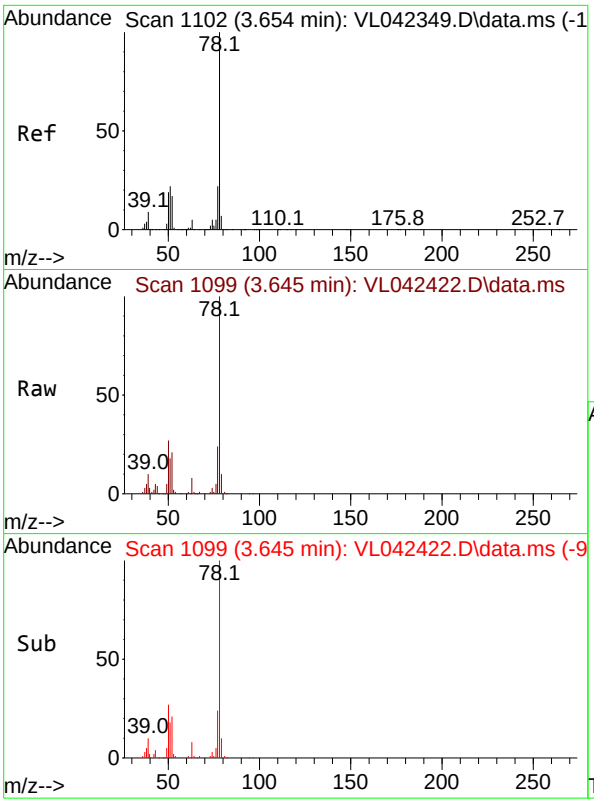




#35
Carbon Tetrachloride
Concen: 0.078 ppbv
RT: 3.751 min Scan# 1132
Delta R.T. -0.010 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion:117 Resp: 2834

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 67.8 | 80.5 | 120.7# |
| 121 | 18.8 | 24.2 | 36.2# |



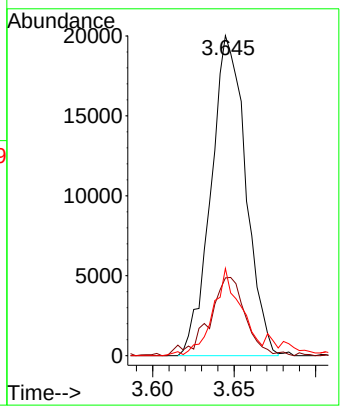


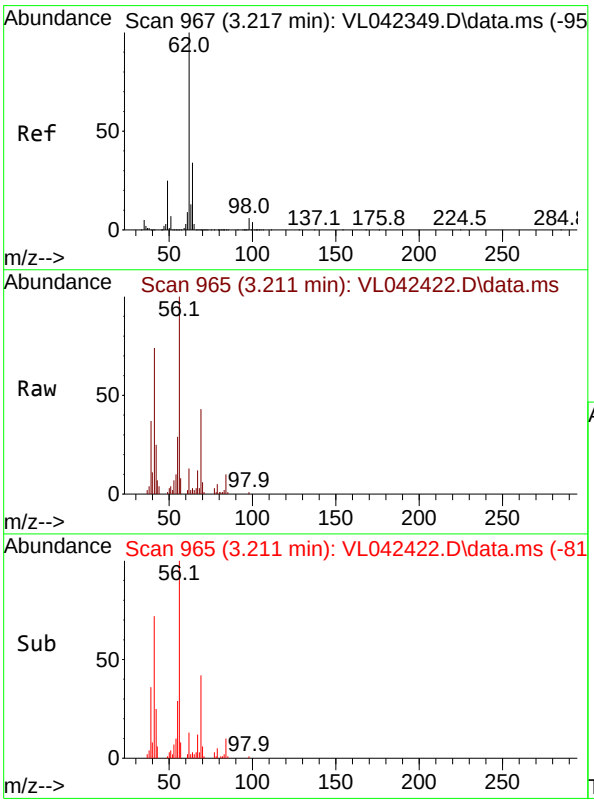

#36
Benzene
Concen: 0.684 ppbv
RT: 3.645 min Scan# 1
Delta R.T. -0.010 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-5-3242025

Tgt Ion: 78 Resp: 29627

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.4 | 17.4 | 26.0 |
| 50 | 26.0 | 15.5 | 23.3# |

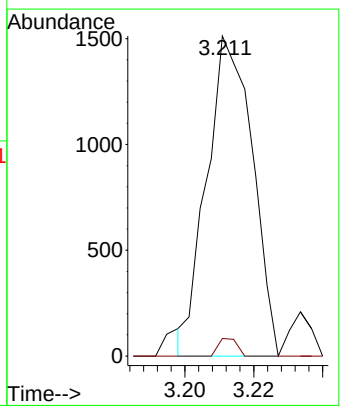


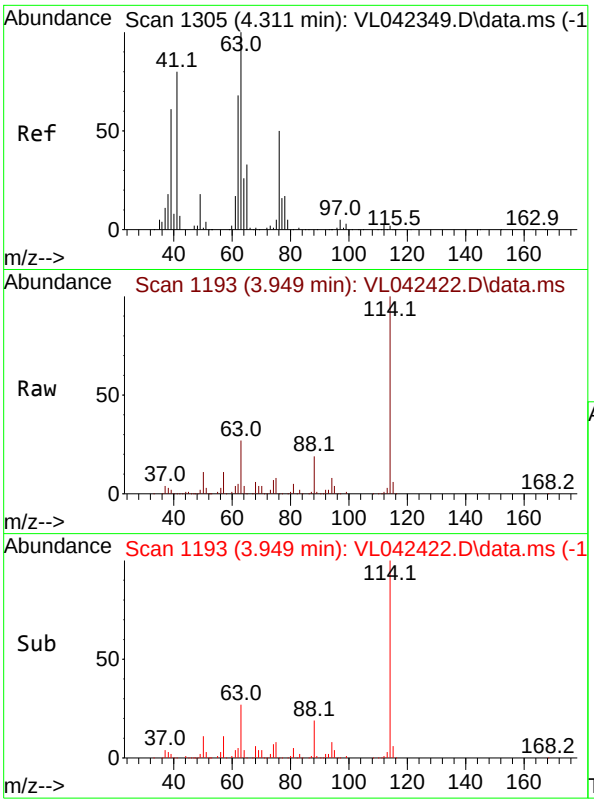




#37
1,2-Dichloroethane
Concen: 0.054 ppbv
RT: 3.211 min Scan# 965
Delta R.T. -0.007 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion: 62 Resp: 1391

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 2.2 | 5.1 | 7.7# |



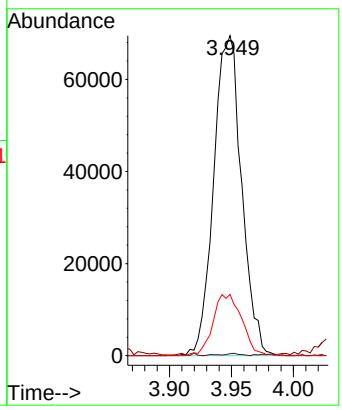


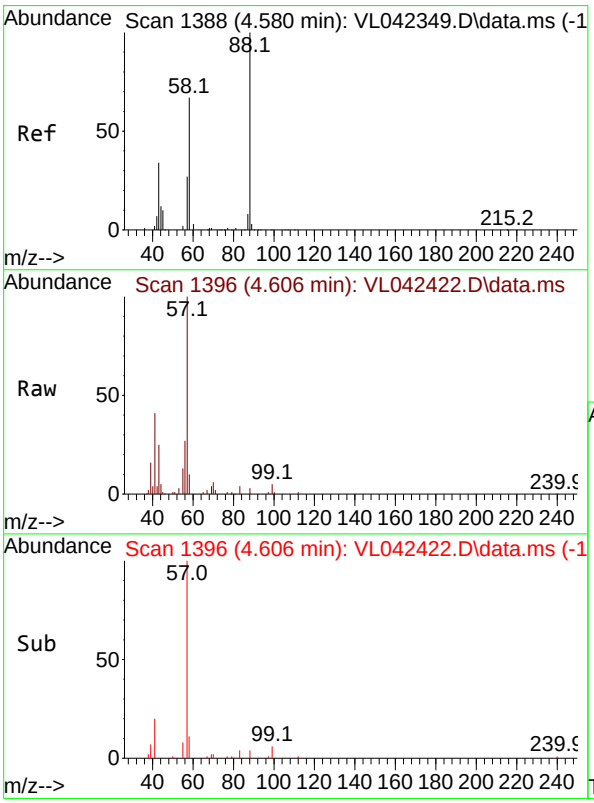

#39
1,2-Dichloropropane
Concen: 6.758 ppbv
RT: 3.949 min Scan# 11
Delta R.T. -0.363 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-5-3242025

Tgt Ion: 63 Resp: 109010

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 0.2 | 64.2 | 96.2# |
| 62 | 19.1 | 54.3 | 81.5# |

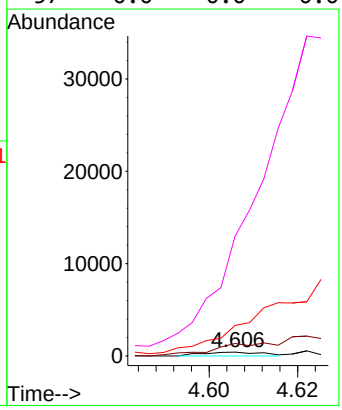


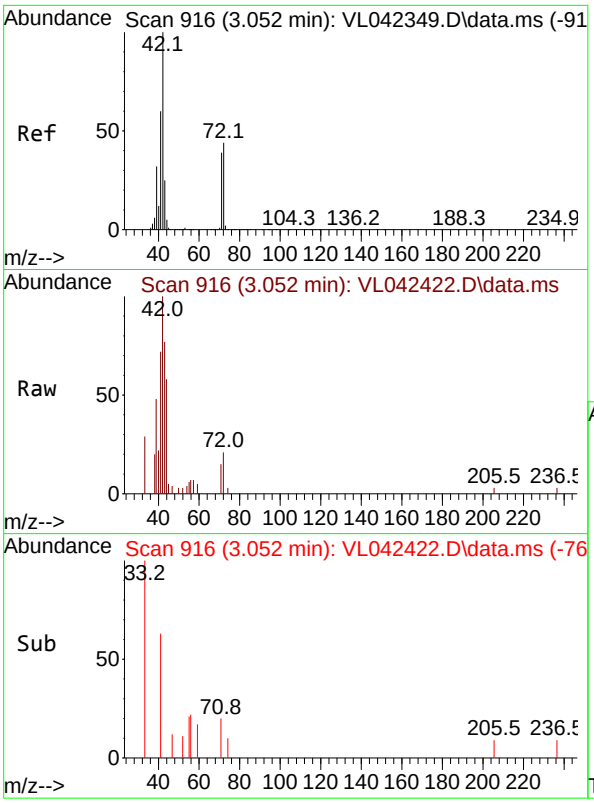




#40
1,4-Dioxane
Concen: 0.045 ppbv
RT: 4.606 min Scan# 1396
Delta R.T. 0.026 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion: 88 Resp: 398

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 0.0 | 61.4 | 92.0# |
| 43 | 0.0 | 23.2 | 34.8# |
| 57 | 0.0 | 0.0 | 0.0 |



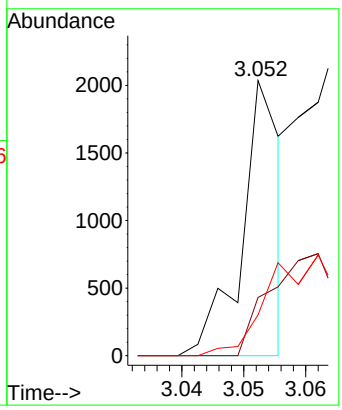


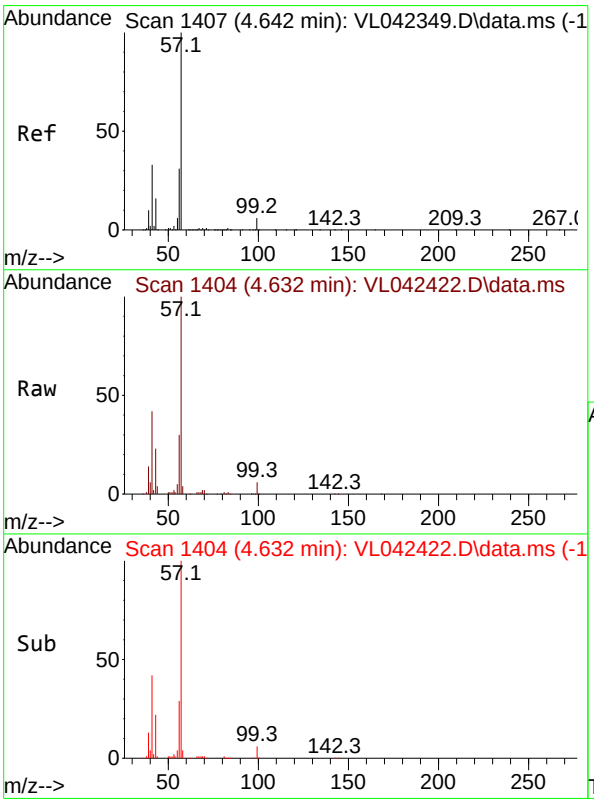

#41
Tetrahydrofuran
Concen: 0.049 ppbv
RT: 3.052 min Scan# 91
Delta R.T. -0.000 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-5-3242025

Tgt Ion: 42 Resp: 900

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 0.0 | 32.3 | 48.5# |
| 71 | 0.0 | 31.4 | 47.2# |

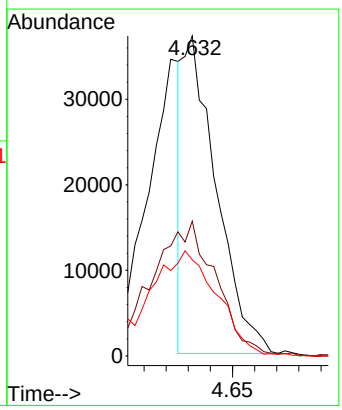


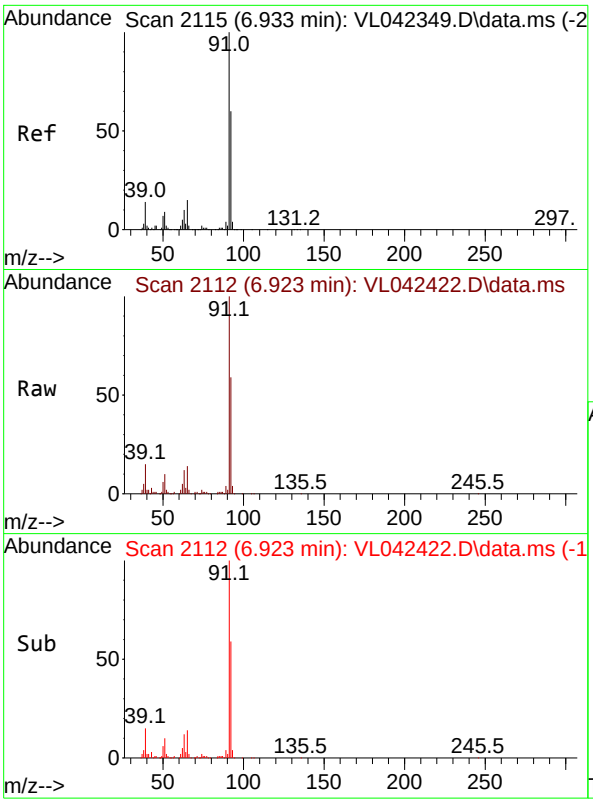




#44
2,2,4-Trimethylpentane
Concen: 0.520 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. -0.010 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion: 57 Resp: 38897

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 88.3 | 27.2 | 40.8# |
| 56 | 77.3 | 25.7 | 38.5# |



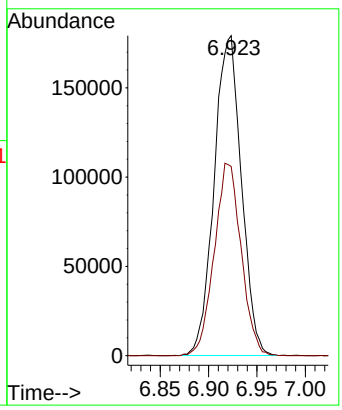


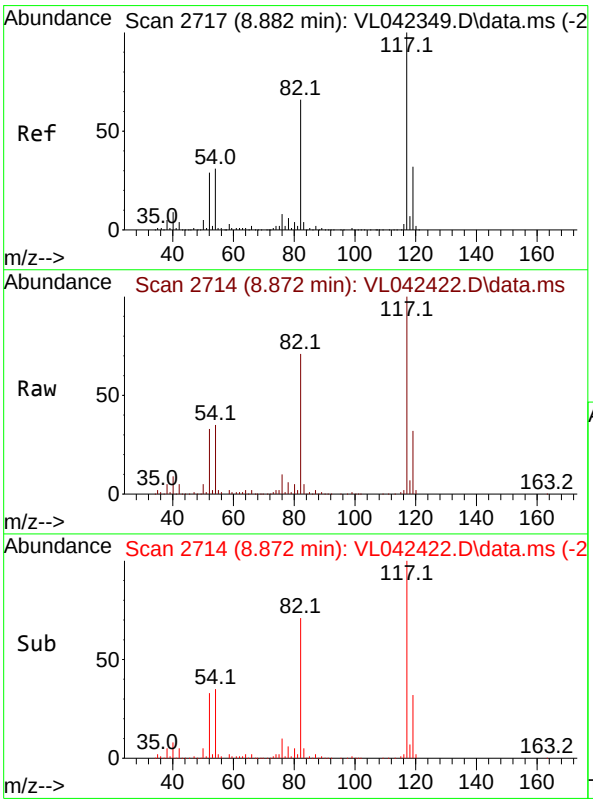

#53
Toluene
Concen: 6.746 ppbv
RT: 6.923 min Scan# 21
Delta R.T. -0.010 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-5-3242025

Tgt Ion: 91 Resp: 350451

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 59.5 | 48.2 | 72.4 |

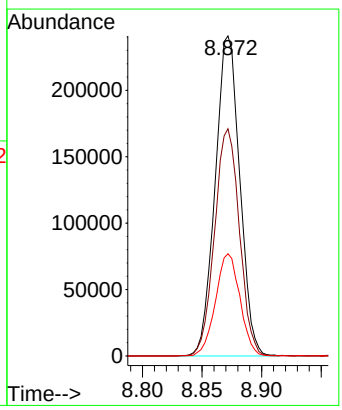


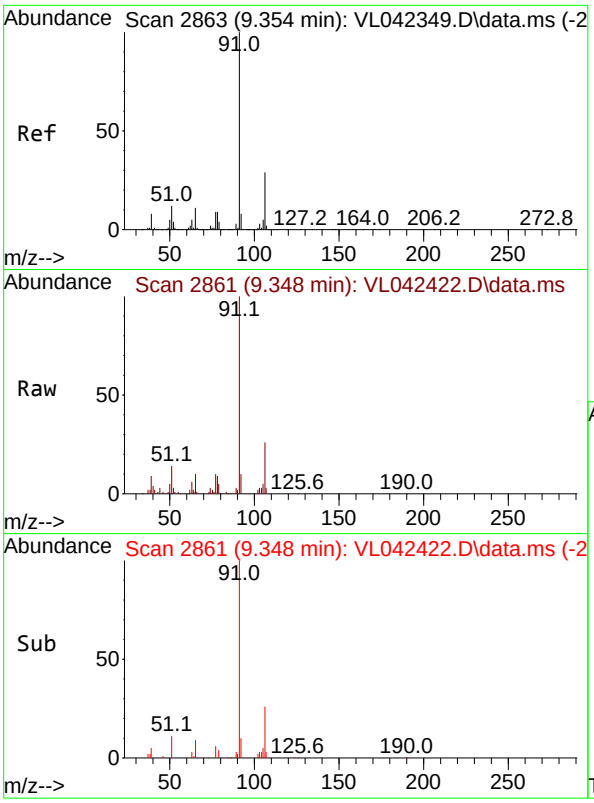




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2714
Delta R.T. -0.010 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion:117 Resp: 346372

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 71.5 | 57.8 | 86.6 |
| 119 | 31.7 | 25.2 | 37.8 |



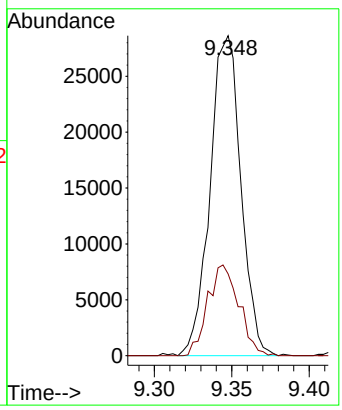


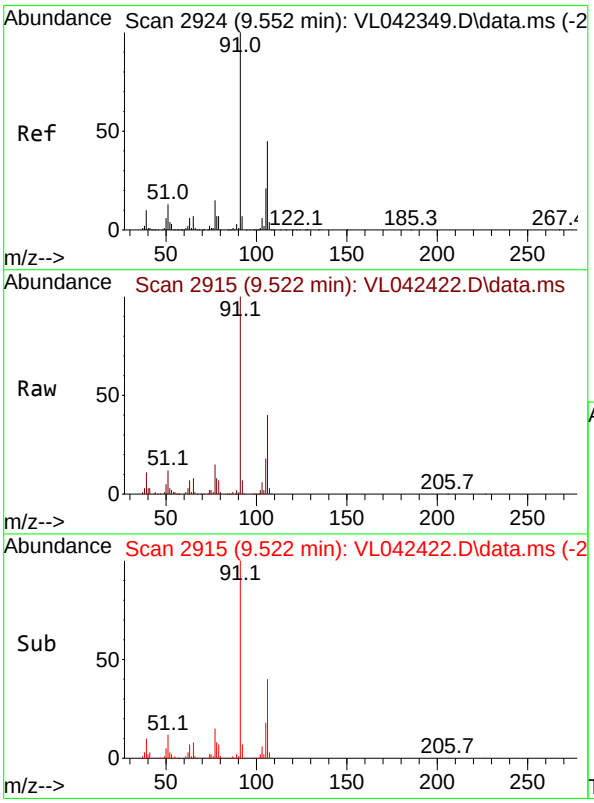

#58
Ethyl Benzene
Concen: 0.579 ppbv
RT: 9.348 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-5-3242025

Tgt Ion: 91 Resp: 39720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 25.5 | 23.0 | 34.4 |

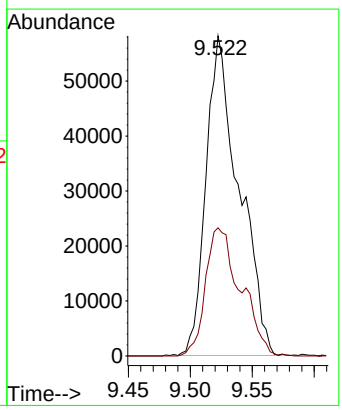


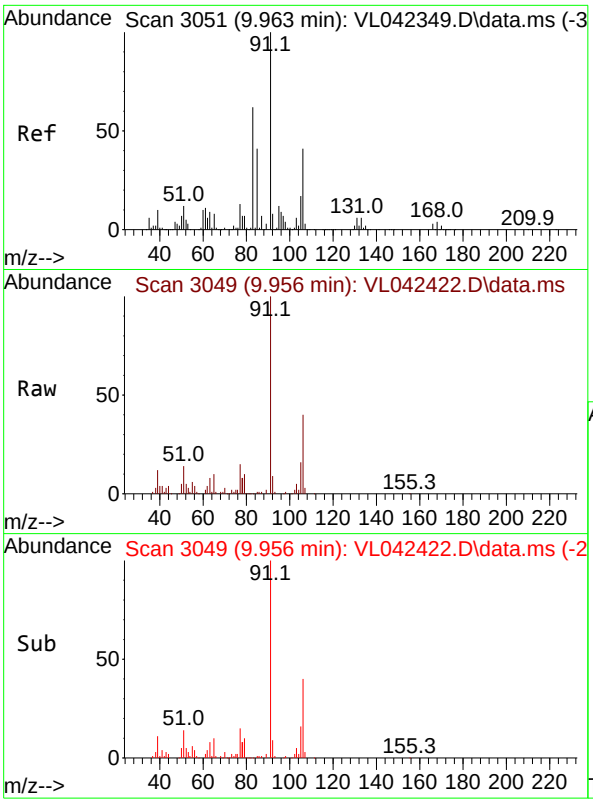




#59
m/p-Xylene
Concen: 1.955 ppbv
RT: 9.522 min Scan# 2915
Delta R.T. -0.029 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion: 91 Resp: 108081

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 42.5 | 35.4 | 53.2 |



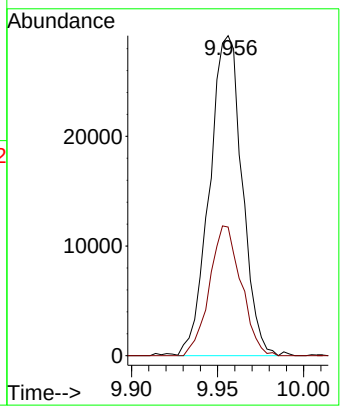


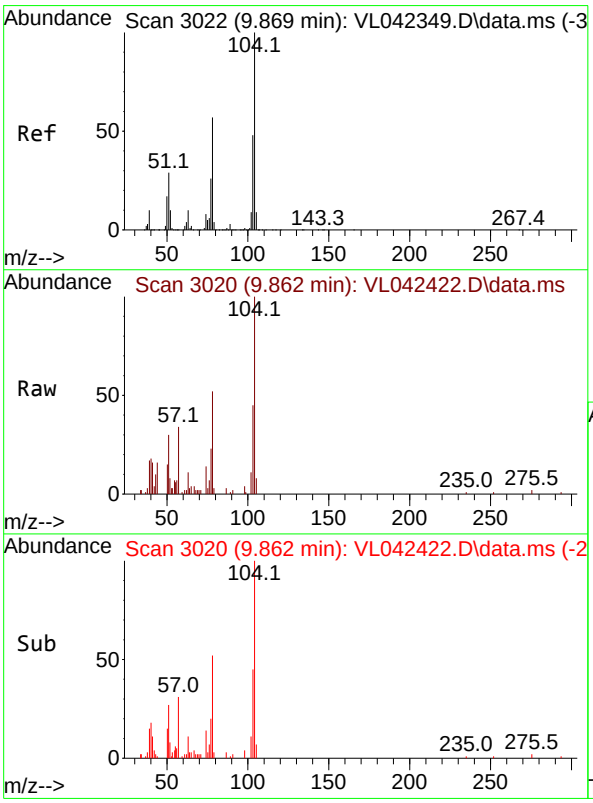

#60
o-Xylene
Concen: 0.691 ppbv
RT: 9.956 min Scan# 3
Delta R.T. -0.007 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-5-3242025

Tgt Ion: 91 Resp: 38480

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 39.4 | 21.1 | 63.4 |

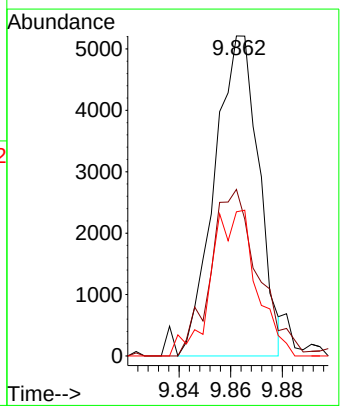


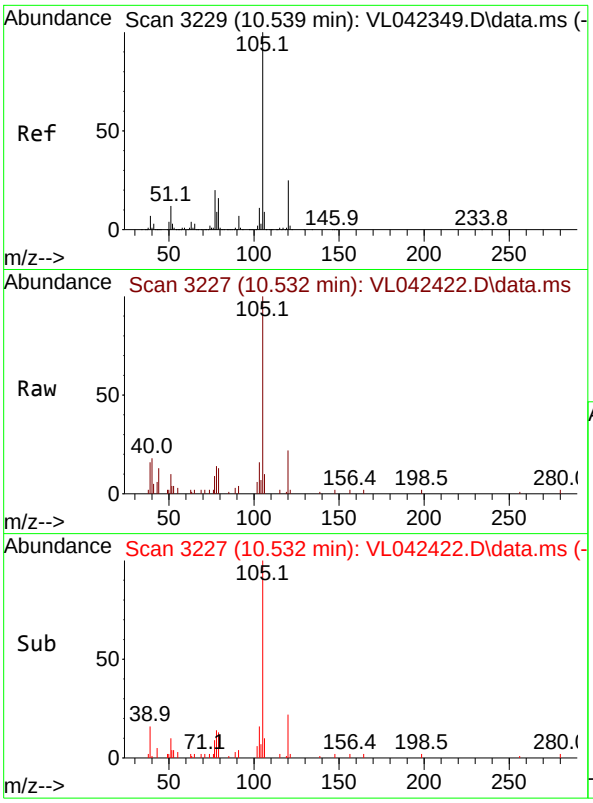




#61
Styrene
Concen: 0.233 ppbv
RT: 9.862 min Scan# 3020
Delta R.T. -0.007 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion:104 Resp: 6199

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 56.9 | 44.6 | 66.8 |
| 103 | 46.9 | 37.4 | 56.0 |



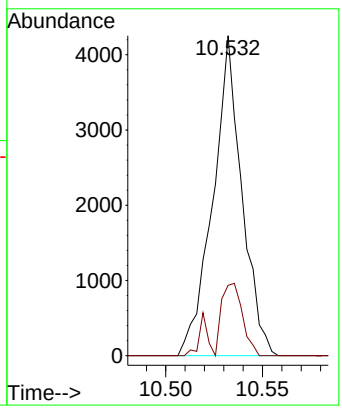


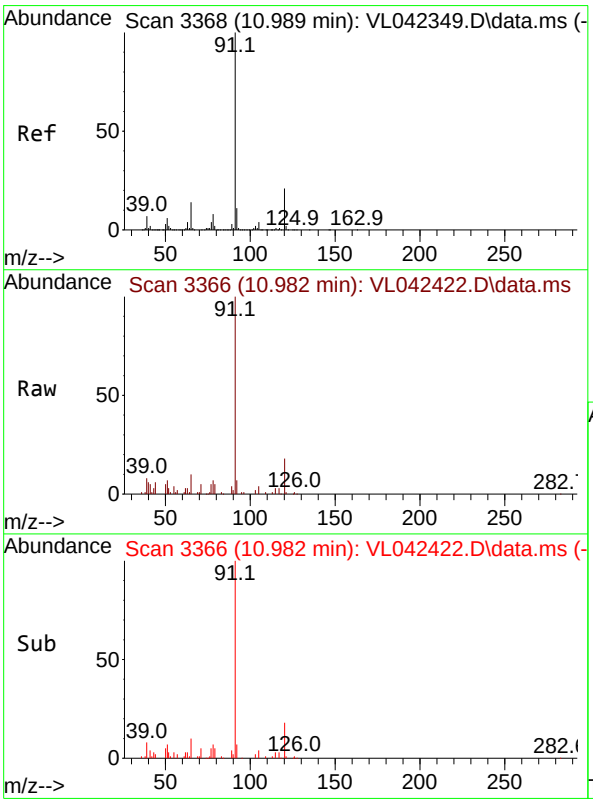

#62
Isopropylbenzene
Concen: 0.054 ppbv
RT: 10.532 min Scan# 3
Delta R.T. -0.007 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-5-3242025

Tgt Ion:105 Resp: 4427

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 20.1 | 19.8 | 29.8 |

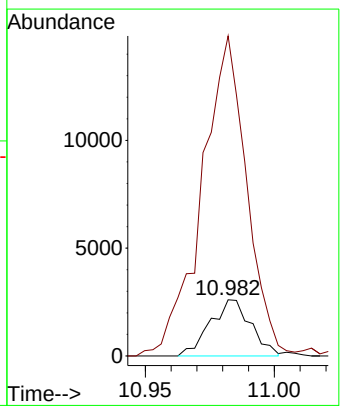


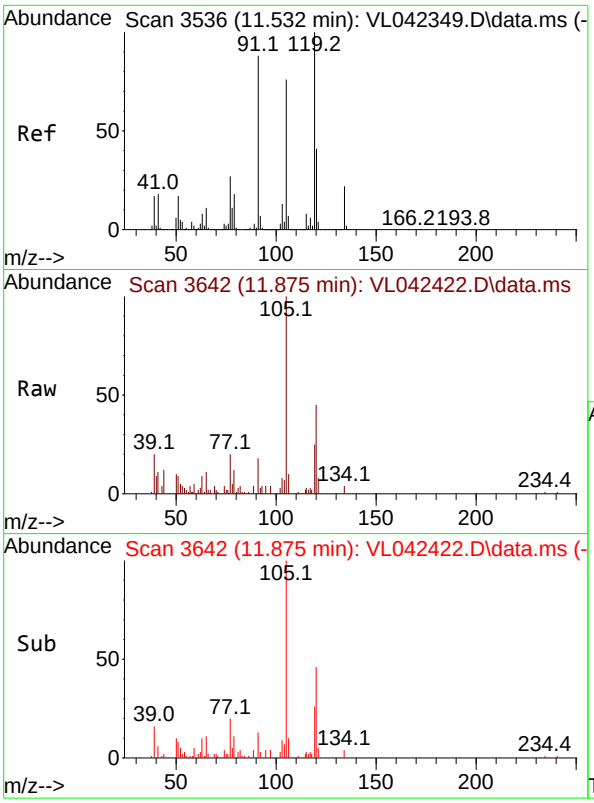




#64
n-propylbenzene
Concen: 0.139 ppbv
RT: 10.982 min Scan# 3366
Delta R.T. -0.007 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion:120 Resp: 2864

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 636.1 | 392.4 | 588.6# |



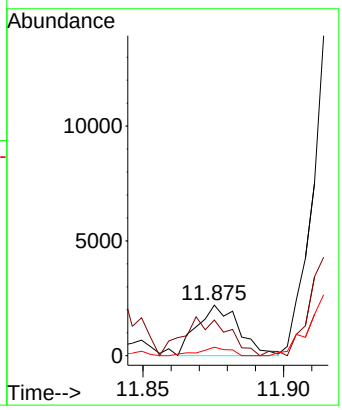


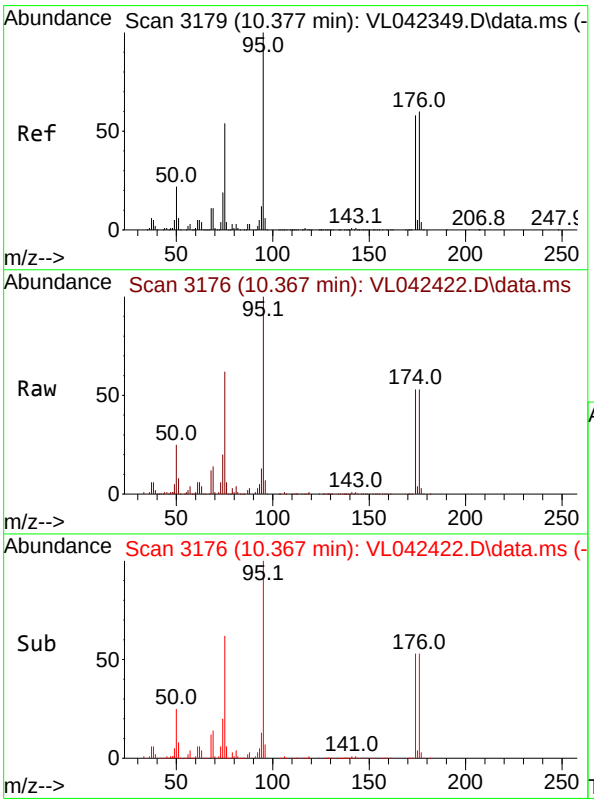

#65
tert-Butylbenzene
Concen: 0.030 ppbv
RT: 11.875 min Scan# 3
Delta R.T. 0.343 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-5-3242025

Tgt Ion:119 Resp: 2272

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 83.0 | 74.6 | 111.8 |
| 134 | 18.9 | 18.8 | 28.2 |

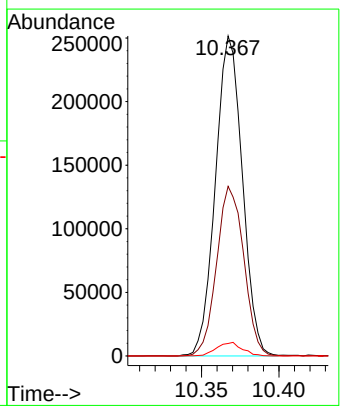


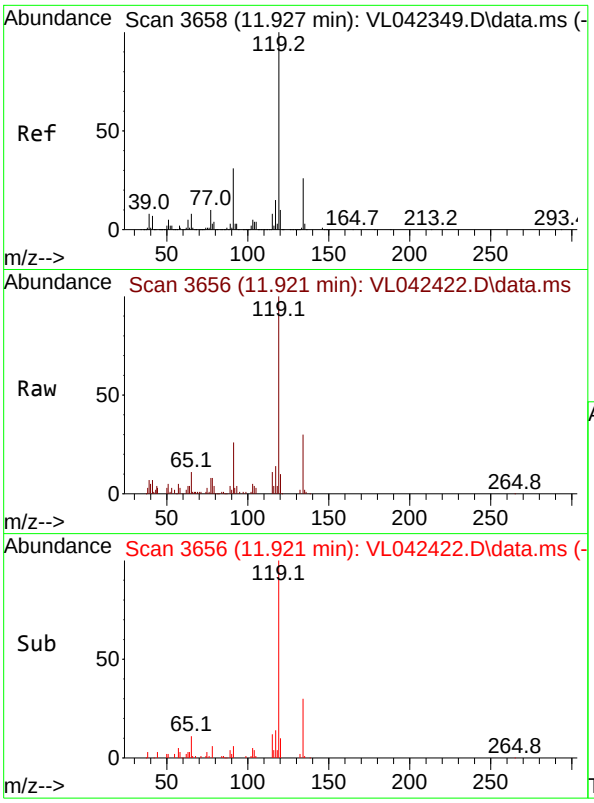




#68
1-Bromo-4-Fluorobenzene
Concen: 10.699 ppbv
RT: 10.367 min Scan# 3176
Delta R.T. -0.010 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion: 95 Resp: 304530

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 53.5 | 48.5 | 72.7 |
| 175 | 4.1 | 3.7 | 5.5 |



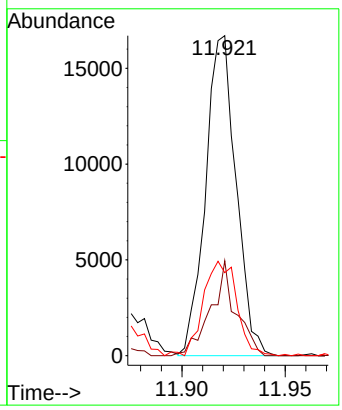


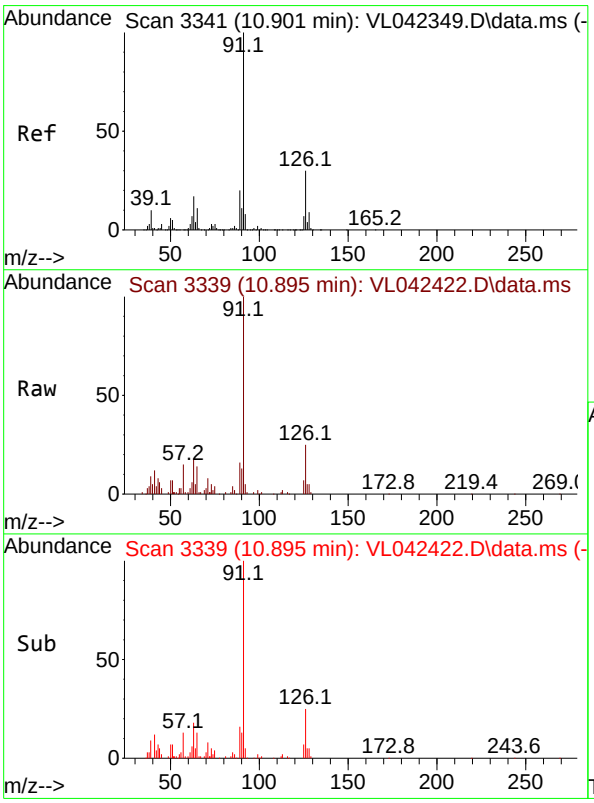

#69
p-Isopropyltoluene
Concen: 0.189 ppbv
RT: 11.921 min Scan# 3
Delta R.T. -0.007 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-5-3242025

Tgt Ion:119 Resp: 17184

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 24.4 | 20.0 | 30.0 |
| 91 | 32.0 | 24.4 | 36.6 |

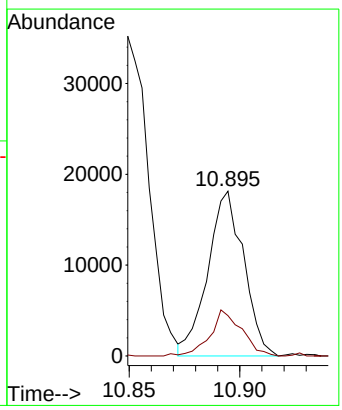


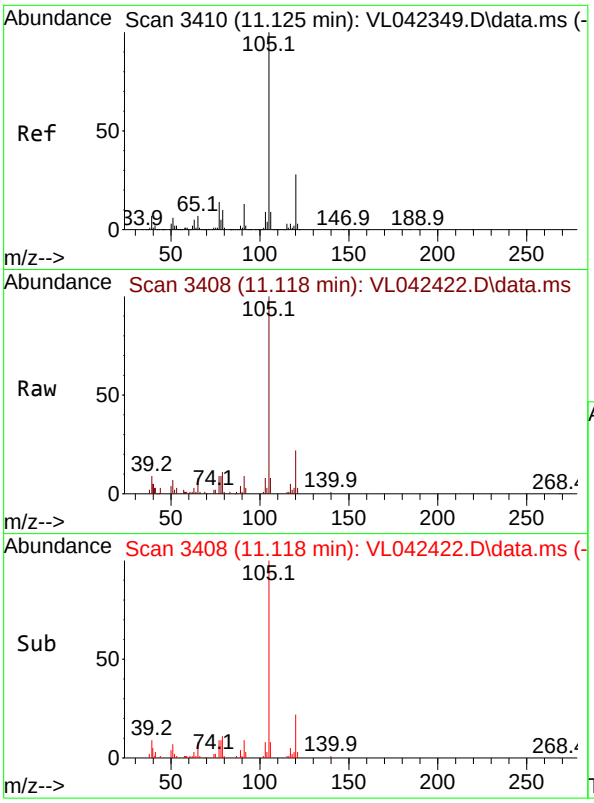




#71
2-Chlorotoluene
Concen: 0.319 ppbv
RT: 10.895 min Scan# 3339
Delta R.T. -0.007 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion: 91 Resp: 20426

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 25.0 | 11.4 | 45.4 |



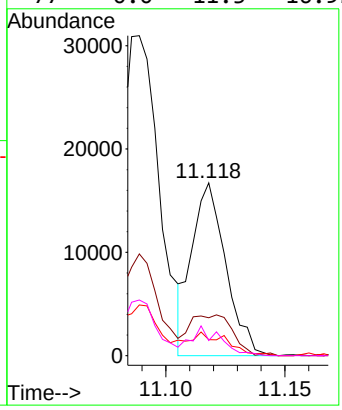


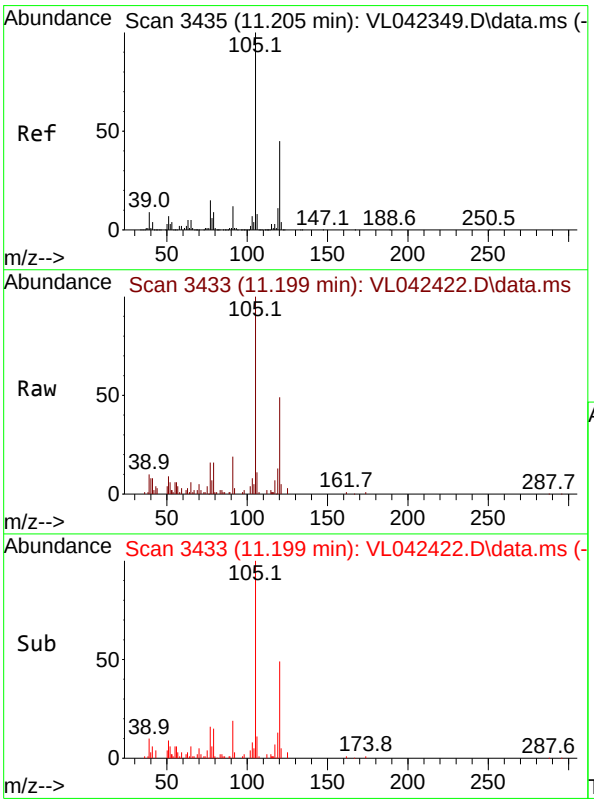

#72
4-Ethyltoluene
Concen: 0.244 ppbv
RT: 11.118 min Scan# 34
Delta R.T. -0.007 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-5-3242025

Tgt Ion:105 Resp: 16614

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 0.0 | 23.2 | 34.8# |
| 91 | 0.0 | 10.4 | 15.6# |
| 77 | 0.0 | 11.3 | 16.9# |

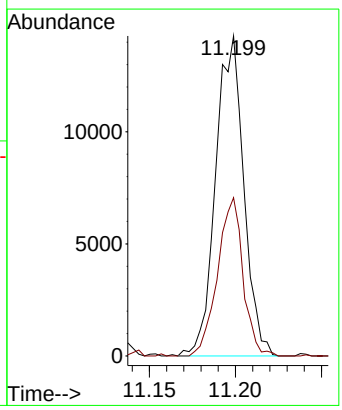


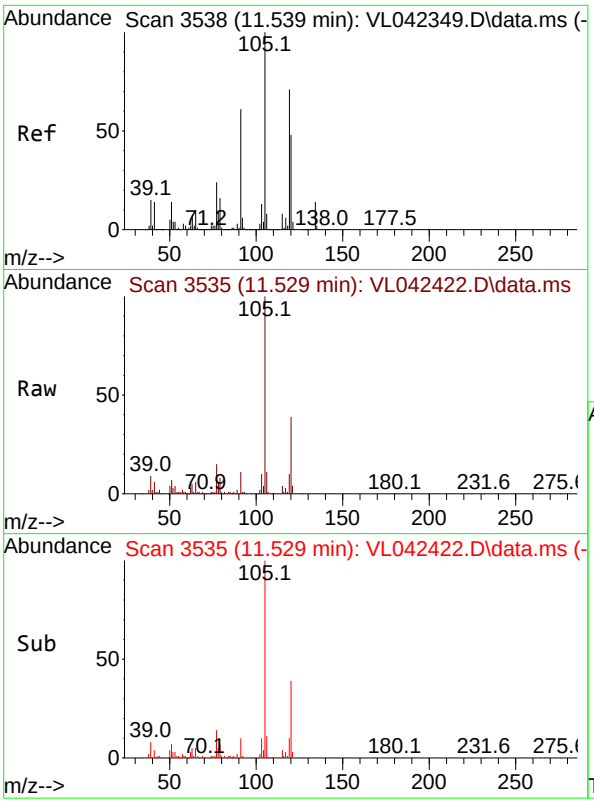




#73
1,3,5-Trimethylbenzene
Concen: 0.269 ppbv
RT: 11.199 min Scan# 3433
Delta R.T. -0.007 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion:105 Resp: 16186

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 49.5 | 35.6 | 53.4 |



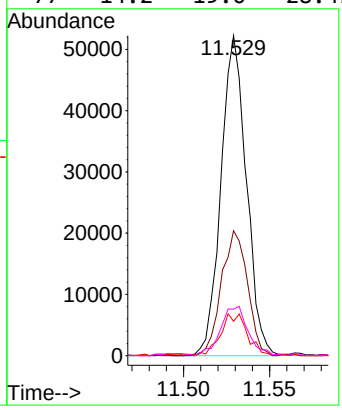


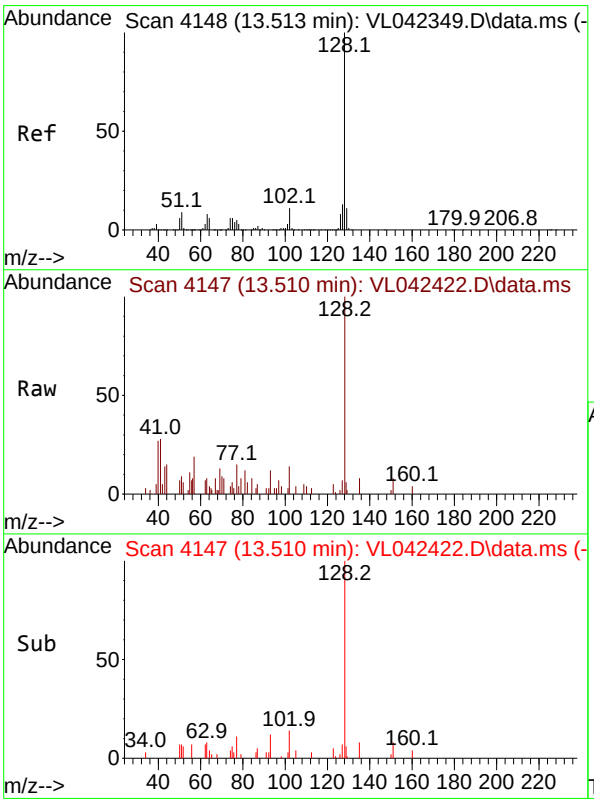

#74
1,2,4-Trimethylbenzene
Concen: 0.764 ppbv
RT: 11.529 min Scan# 3
Delta R.T. -0.010 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-5-3242025

Tgt Ion:105 Resp: 53644

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 39.0 | 38.1 | 57.1 |
| 91 | 10.4 | 48.8 | 73.2# |
| 77 | 14.2 | 19.0 | 28.4# |

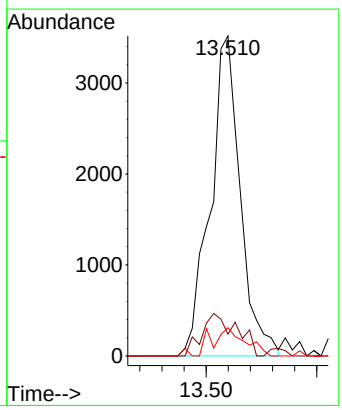



#79
Naphthalene
Concen: 0.039 ppbv
RT: 13.510 min Scan# 4147
Delta R.T. -0.003 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion:128 Resp: 3307

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 6.4 | 10.6 | 15.8# |
| 129 | 8.3 | 8.6 | 12.8# |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042423.D
Acq On : 28 Apr 2025 13:26
Operator : SY/MD
Sample : Q1665-19
Misc : 400mL/MSVOA_L
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

Quant Time: Apr 29 01:36:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) Bromochloromethane | 2.784 | 49 | 134276 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.953 | 114 | 394249 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.879 | 117 | 337638 | 10.000 | ppbv | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.374 | 95 | 295822 | 10.662 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 106.600% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.496 | 85 | 10922 | 0.460 | ppbv | | 97 |
| 3) Chlorodifluoromethane | 1.467 | 51 | 412384 | 18.254 | ppbv | # | 57 |
| 4) Chloromethane | 1.532 | 50 | 6178 | 0.658 | ppbv | | 94 |
| 6) Bromomethane | 1.671 | 94 | 139 | 0.032 | ppbv | | 94 |
| 7) Chloroethane | 1.467 | 64 | 20785 | 5.624 | ppbv | | 98 |
| 9) Propene | 1.557 | 41 | 376978 | 36.642 | ppbv | | 99 |
| 10) Heptane | 4.969 | 43 | 9743 | 0.337 | ppbv | # | 61 |
| 11) Trichlorofluoromethane | 1.875 | 101 | 5064 | 0.224 | ppbv | | 96 |
| 12) 1,1,2-Trichlorotrifluo... | 2.137 | 101 | 1205 | 0.065 | ppbv | # | 61 |
| 13) Ethanol | 1.719 | 45 | 530749 | 324.570 | ppbv | | 75 |
| 15) Acetone | 1.833 | 43 | 545564 | 24.819 | ppbv | # | 85 |
| 16) 1,3-Butadiene | 1.599 | 39 | 6851 | 0.652 | ppbv | # | 9 |
| 17) tert-Butyl alcohol | 2.043 | 59 | 80244 | 2.946 | ppbv | | 100 |
| 19) Isopropyl Alcohol | 1.884 | 45 | 390564 | 31.985 | ppbv | # | 77 |
| 20) Methylene Chloride | 2.059 | 84 | 7626 | 0.886 | ppbv | | 89 |
| 21) Allyl Chloride | 2.040 | 41 | 19768 | 1.302 | ppbv | # | 67 |
| 23) Vinyl Acetate | 2.454 | 43 | 51200 | 5.754 | ppbv | # | 93 |
| 25) Ethyl Acetate | 2.823 | 43 | 48635 | 0.897 | ppbv | # | 75 |
| 26) Hexane | 2.826 | 57 | 51632 | 2.354 | ppbv | # | 42 |
| 27) Carbon Disulfide | 2.150 | 76 | 1071 | 0.046 | ppbv | # | 38 |
| 28) Methyl tert-Butyl Ether | 2.441 | 73 | 751 | 0.052 | ppbv | # | 48 |
| 29) Chloroform | 2.842 | 83 | 1349 | 0.044 | ppbv | # | 57 |
| 30) Cyclohexane | 3.852 | 84 | 1658 | 0.094 | ppbv | # | 1 |
| 34) 2-Butanone | 2.558 | 43 | 49884 | 1.600 | ppbv | | 96 |
| 35) Carbon Tetrachloride | 3.762 | 117 | 1314 | 0.037 | ppbv | # | 83 |
| 36) Benzene | 3.655 | 78 | 19225 | 0.452 | ppbv | # | 86 |
| 37) 1,2-Dichloroethane | 3.215 | 62 | 11718 | 0.459 | ppbv | | 97 |
| 39) 1,2-Dichloropropane | 3.956 | 63 | 106631 | 6.729 | ppbv | # | 23 |
| 41) Tetrahydrofuran | 3.059 | 42 | 1802 | 0.099 | ppbv | # | 35 |
| 44) 2,2,4-Trimethylpentane | 4.632 | 57 | 25912 | 0.353 | ppbv | # | 35 |
| 50) 4-Methyl-2-Pentanone | 5.755 | 43 | 10827 | 0.209 | ppbv | # | 45 |
| 52) Tetrachloroethene | 8.215 | 164 | 561 | 0.034 | ppbv | # | 70 |
| 53) Toluene | 6.930 | 91 | 202018 | 3.959 | ppbv | | 100 |
| 58) Ethyl Benzene | 9.351 | 91 | 33321 | 0.498 | ppbv | | 99 |
| 59) m/p-Xylene | 9.526 | 91 | 66442 | 1.233 | ppbv | | 97 |
| 60) o-Xylene | 9.963 | 91 | 27079 | 0.499 | ppbv | | 97 |
| 61) Styrene | 9.869 | 104 | 8176 | 0.316 | ppbv | | 94 |
| 62) Isopropylbenzene | 10.539 | 105 | 5624 | 0.071 | ppbv | | 99 |
| 64) n-propylbenzene | 10.986 | 120 | 2190 | 0.109 | ppbv | | 89 |
| 65) tert-Butylbenzene | 11.536 | 119 | 3014 | 0.041 | ppbv | # | 49 |
| 69) p-Isopropyltoluene | 11.924 | 119 | 3785 | 0.043 | ppbv | # | 75 |
| 72) 4-Ethyltoluene | 11.118 | 105 | 3726 | 0.056 | ppbv | # | 56 |
| 73) 1,3,5-Trimethylbenzene | 11.203 | 105 | 8221 | 0.140 | ppbv | # | 83 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042423.D
Acq On : 28 Apr 2025 13:26
Operator : SY/MD
Sample : Q1665-19
Misc : 400mL/MSVOA_L
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

Quant Time: Apr 29 01:36:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

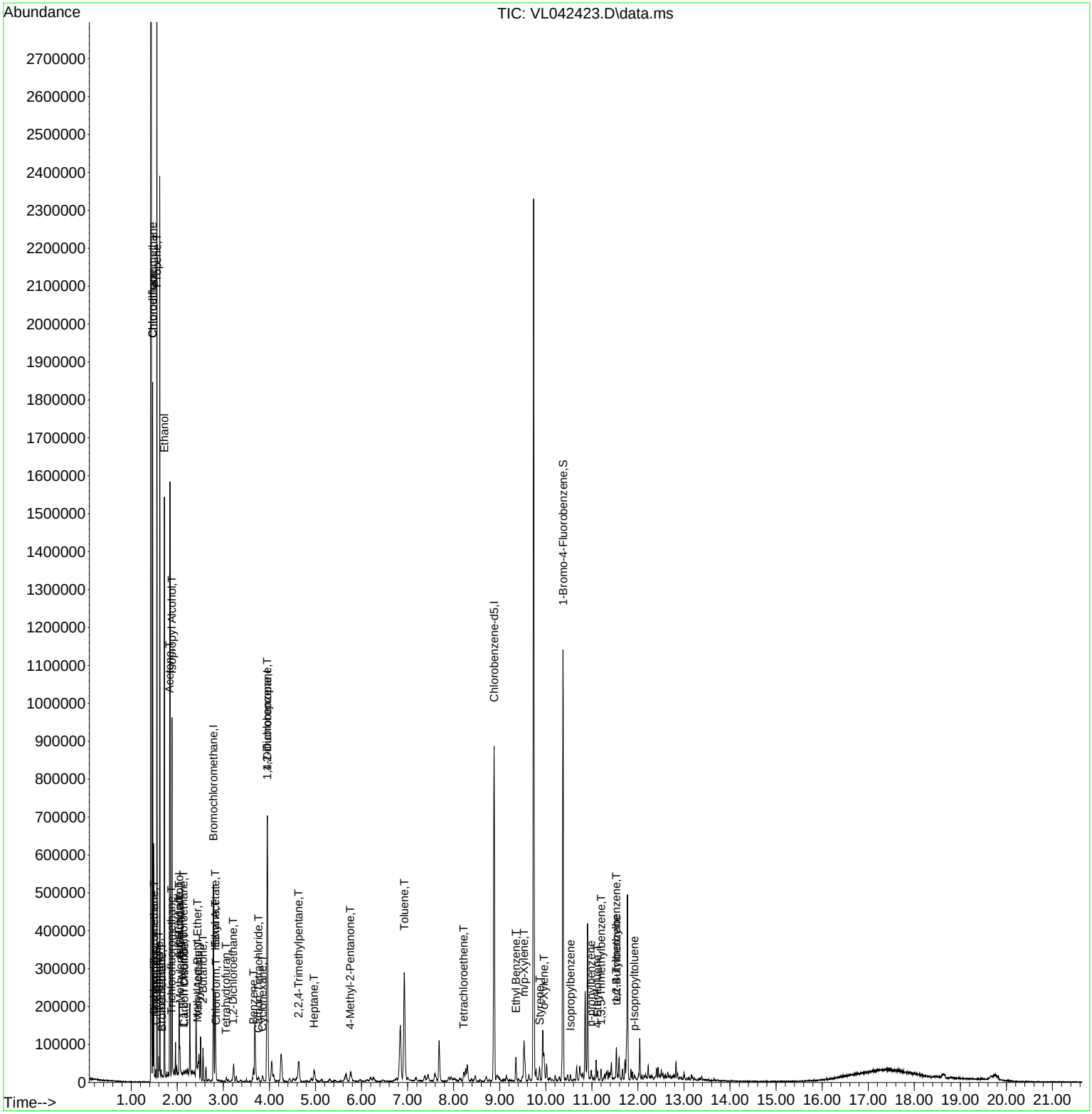
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 74) 1,2,4-Trimethylbenzene | 11.533 | 105 | 26441 | 0.387 | ppbv # | 63 |

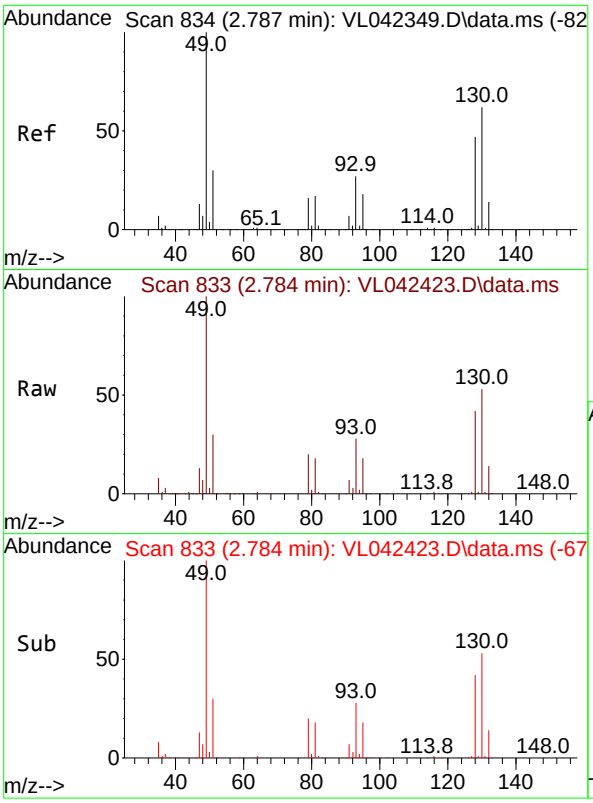
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042423.D
Acq On : 28 Apr 2025 13:26
Operator : SY/MD
Sample : Q1665-19
Misc : 400mL/MSVOA_L
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

Quant Time: Apr 29 01:36:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration



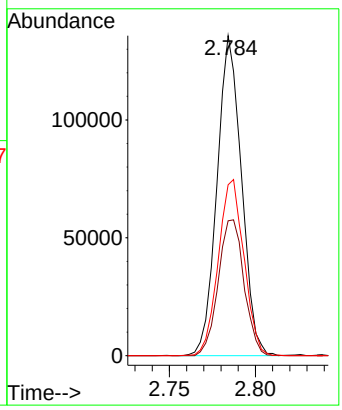


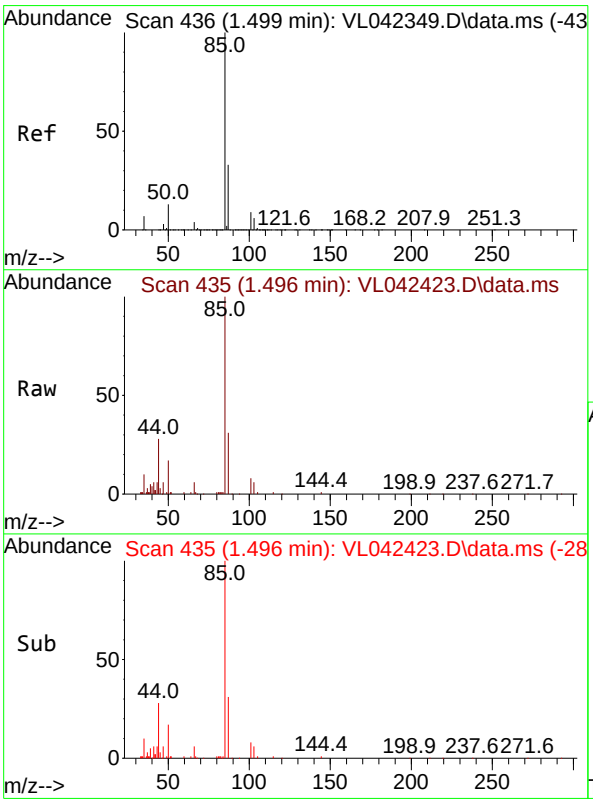

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

Tgt Ion: 49 Resp: 134276

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 44.7 | 22.8 | 68.4 |
| 130 | 57.8 | 29.3 | 88.0 |

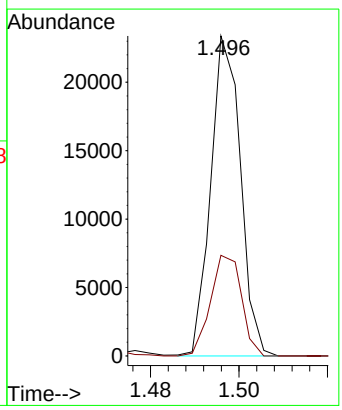


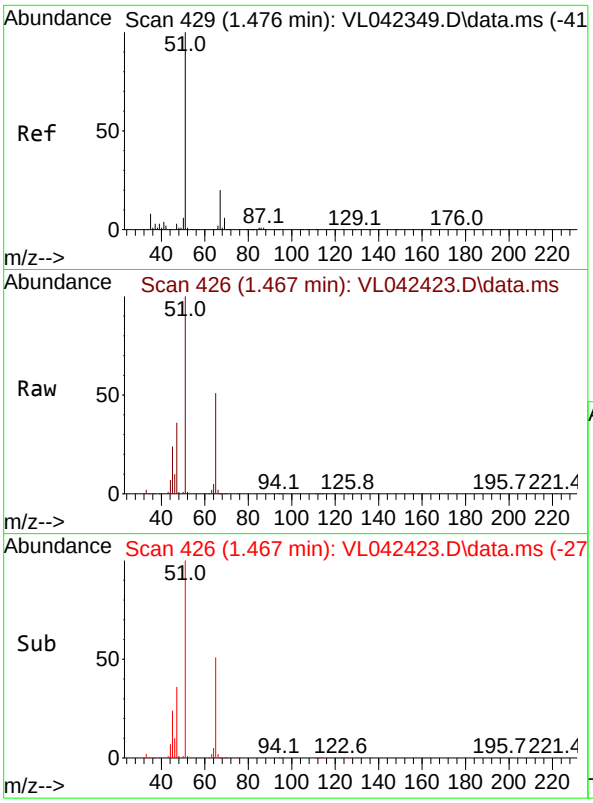




#2
Dichlorodifluoromethane
Concen: 0.460 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion: 85 Resp: 10922

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.5 | 26.6 | 39.8 |



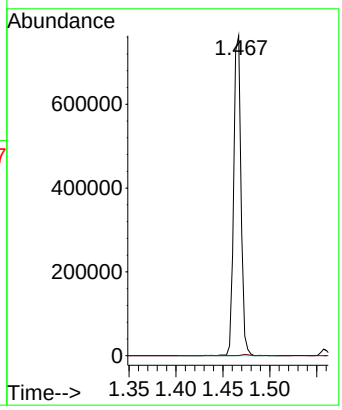


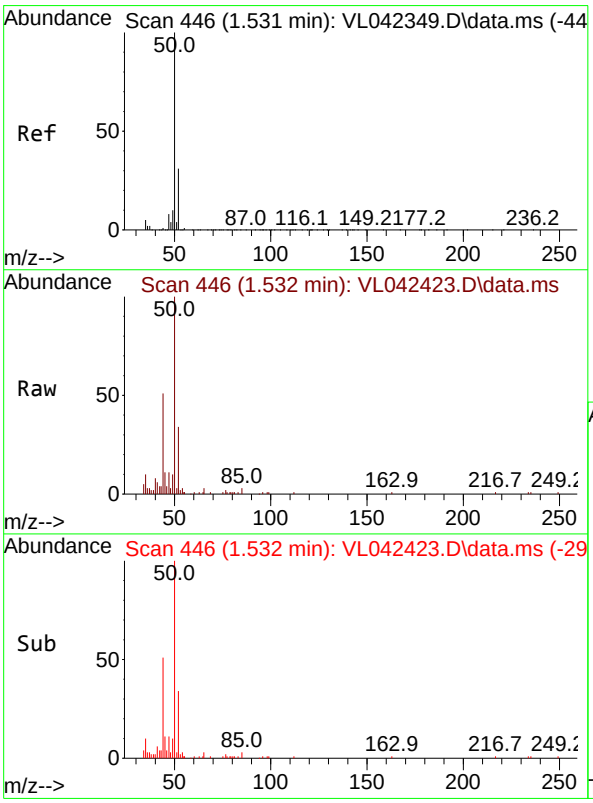

#3
Chlorodifluoromethane
Concen: 18.254 ppbv
RT: 1.467 min Scan# 4
Delta R.T. -0.009 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

Tgt Ion: 51 Resp: 412384

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 0.4 | 16.2 | 24.4# |

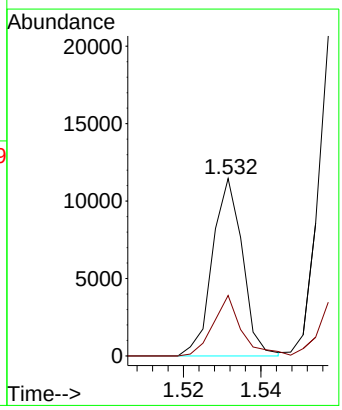


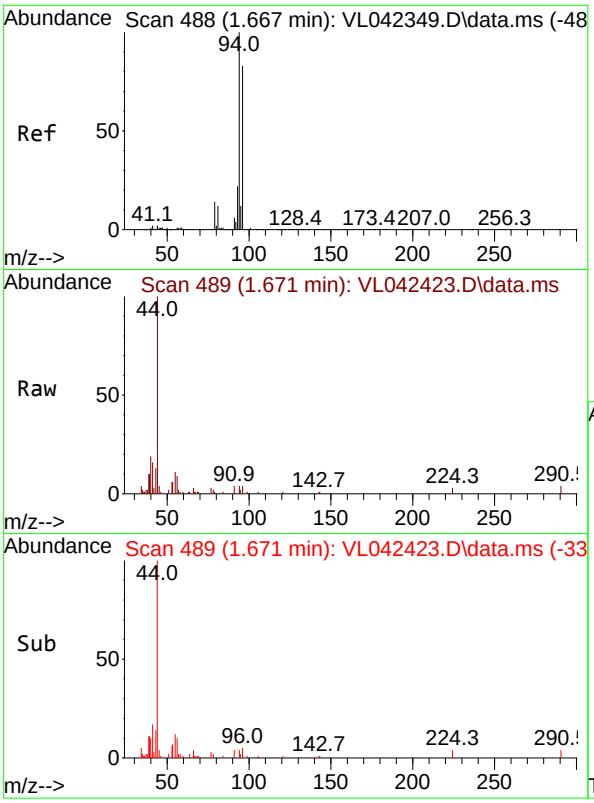




#4
Chloromethane
Concen: 0.658 ppbv
RT: 1.532 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion: 50 Resp: 6178

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 34.1 | 24.7 | 37.1 |



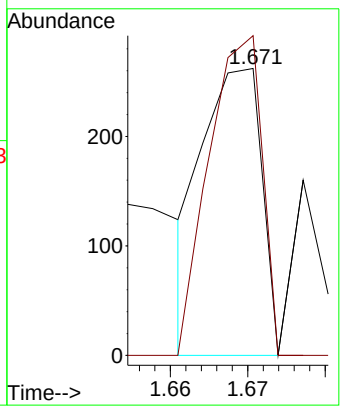


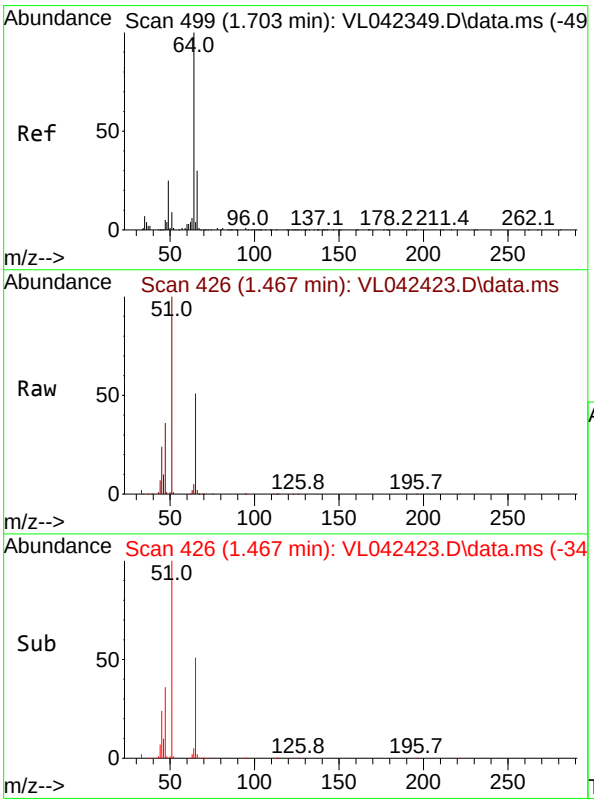

#6
Bromomethane
Concen: 0.032 ppbv
RT: 1.671 min Scan# 4
Delta R.T. 0.004 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

Tgt Ion: 94 Resp: 139

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 77.0 | 66.2 | 99.2 |

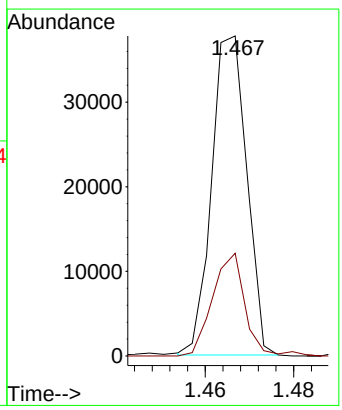


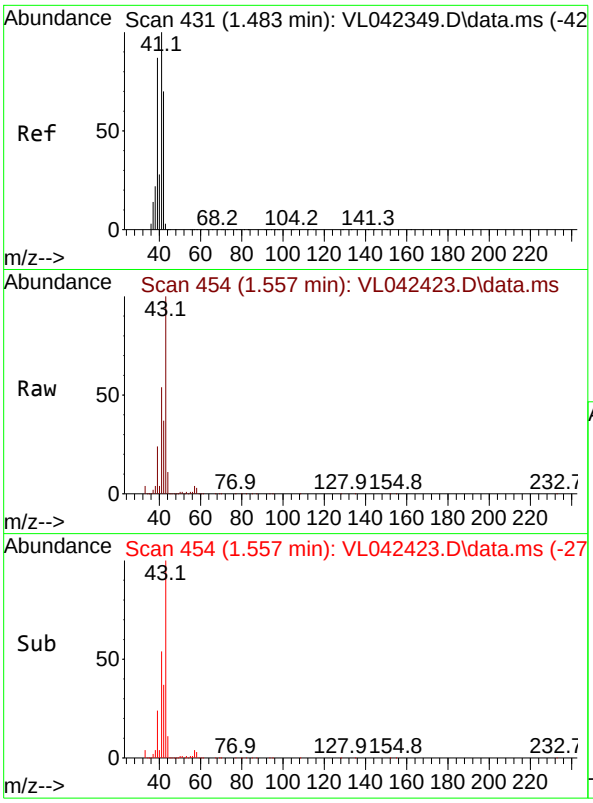




#7
Chloroethane
Concen: 5.624 ppbv
RT: 1.467 min Scan# 426
Delta R.T. -0.236 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion: 64 Resp: 20785

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.1 | 24.6 | 37.0 |



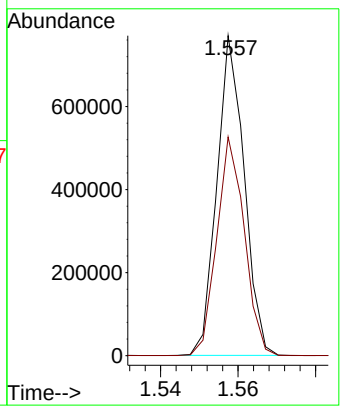


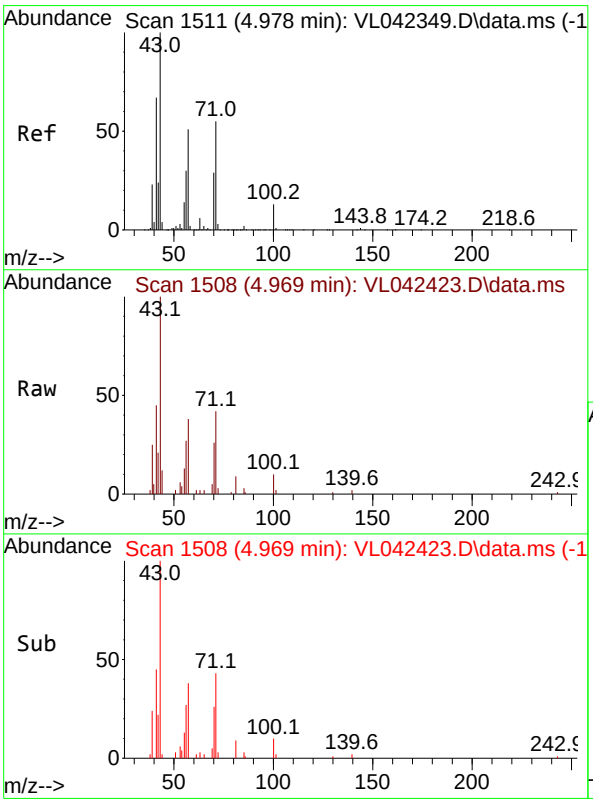

#9
Propene
Concen: 36.642 ppbv
RT: 1.557 min Scan# 4
Delta R.T. 0.075 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

Tgt Ion: 41 Resp: 376978

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 69.4 | 56.2 | 84.4 |

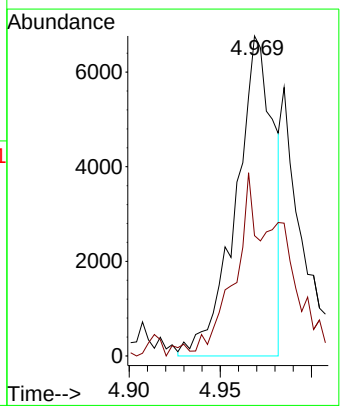


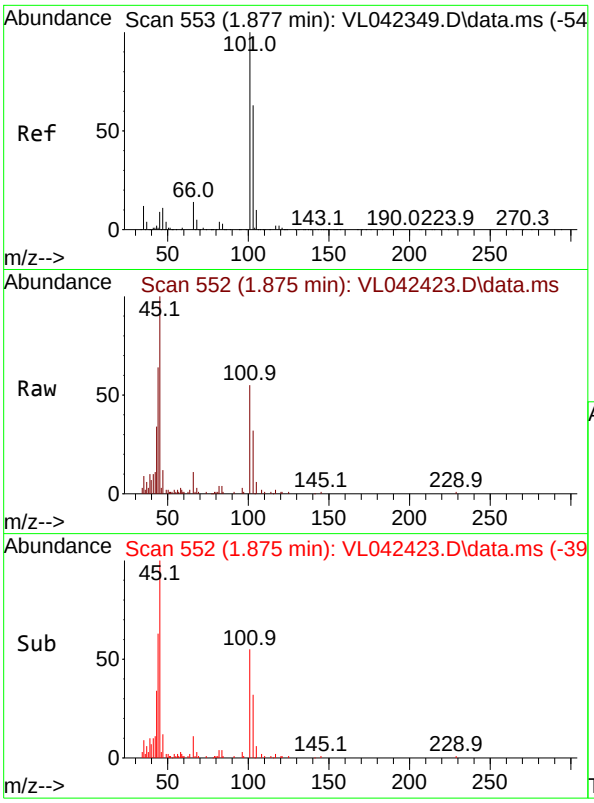




#10
Heptane
Concen: 0.337 ppbv
RT: 4.969 min Scan# 1508
Delta R.T. -0.009 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion: 43 Resp: 9743

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 77.0 | 39.9 | 59.9# |



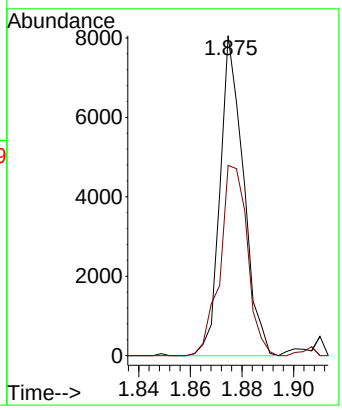


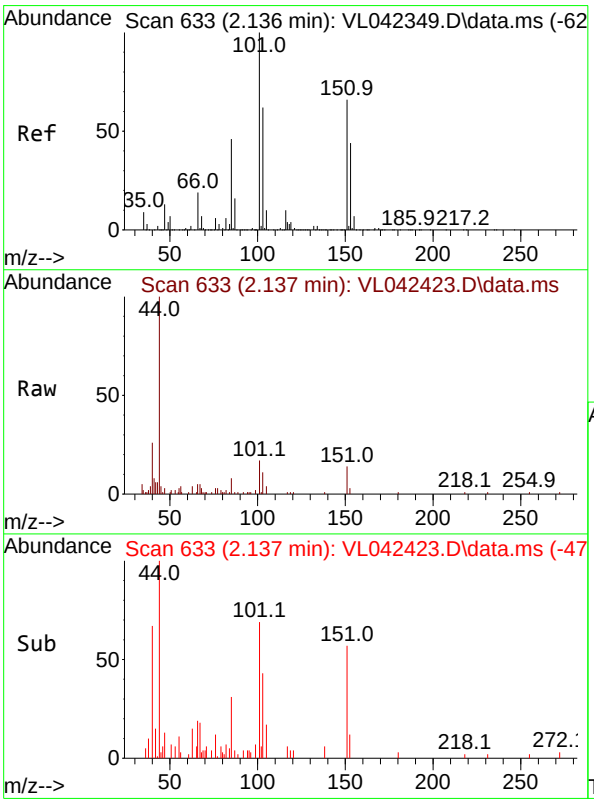

#11
Trichlorofluoromethane
Concen: 0.224 ppbv
RT: 1.875 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

Tgt Ion:101 Resp: 5064

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 59.4 | 50.1 | 75.1 |

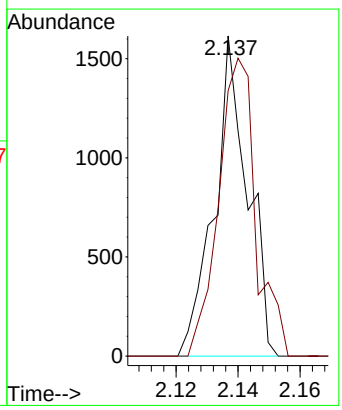


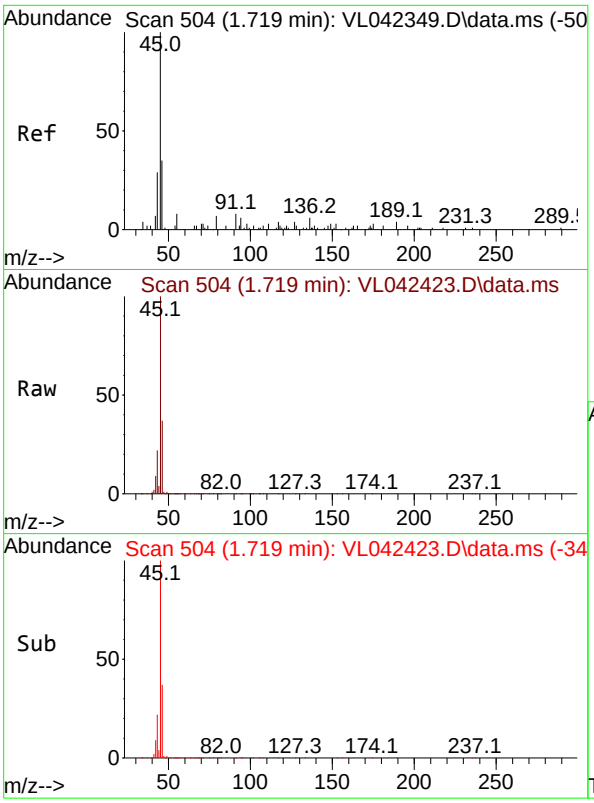




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.065 ppbv
RT: 2.137 min Scan# 633
Delta R.T. 0.000 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion:101 Resp: 1205

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 103.7 | 57.0 | 85.6# |



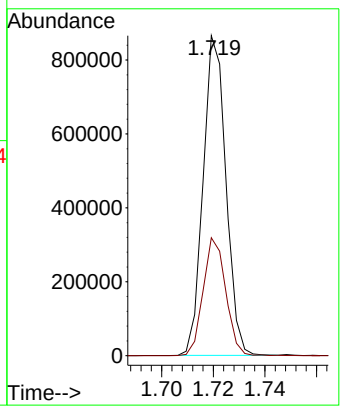


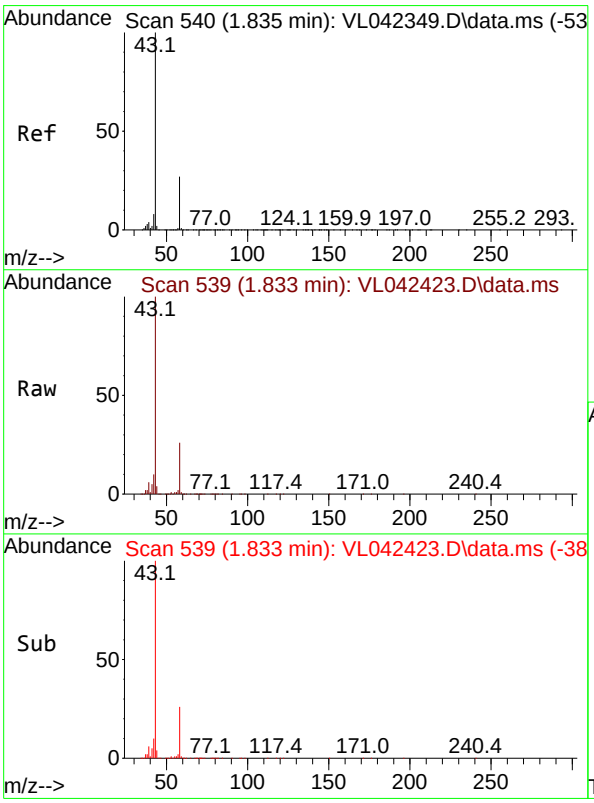

#13
Ethanol
Concen: 324.570 ppbv
RT: 1.719 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

Tgt Ion: 45 Resp: 530749

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 36.6 | 21.9 | 87.7 |

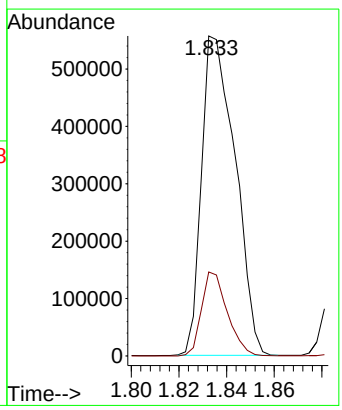


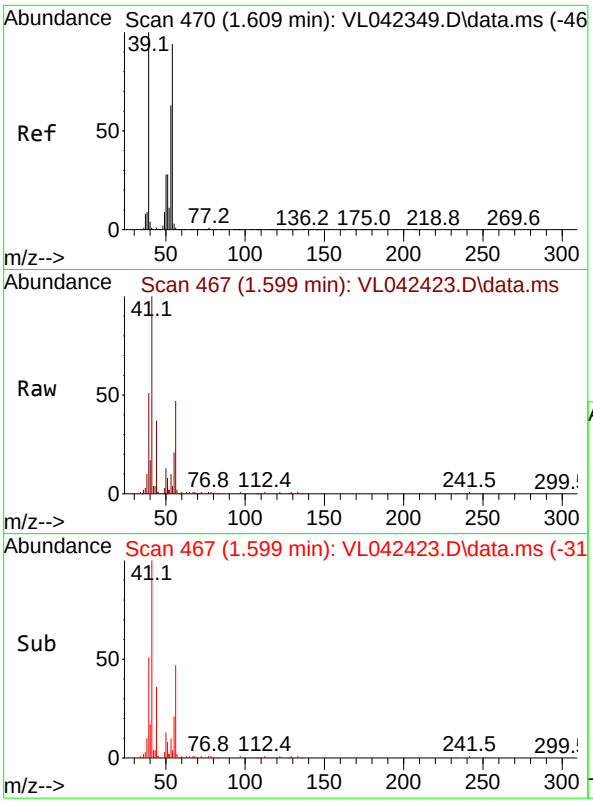




#15
Acetone
Concen: 24.819 ppbv
RT: 1.833 min Scan# 539
Delta R.T. -0.003 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion: 43 Resp: 545564

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 20.3 | 22.4 | 33.6# |



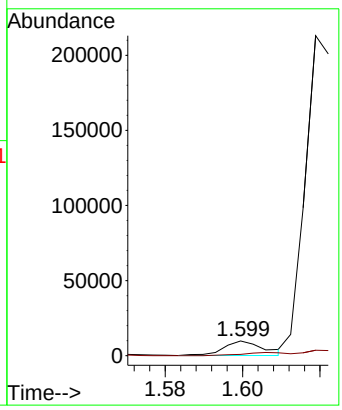


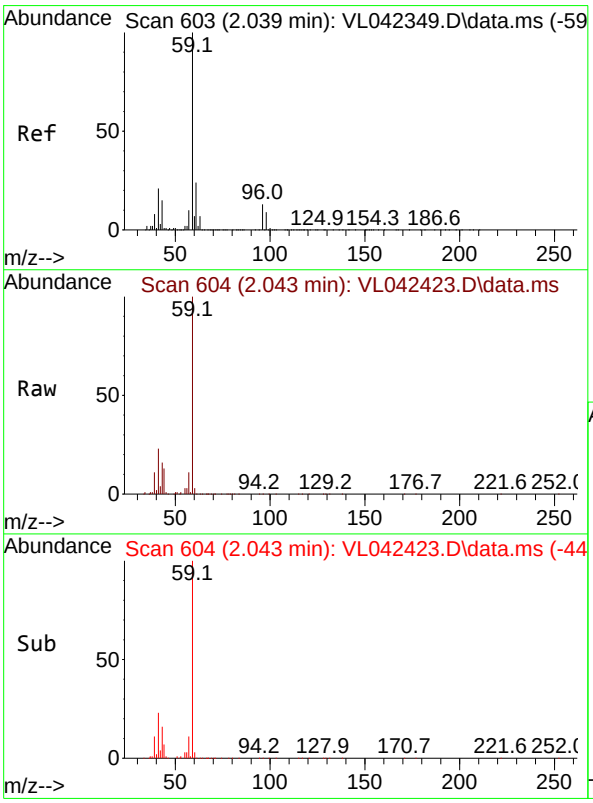

#16
1,3-Butadiene
Concen: 0.652 ppbv
RT: 1.599 min Scan# 4
Delta R.T. -0.009 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

Tgt Ion: 39 Resp: 6851

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 0.0 | 64.9 | 97.3# |

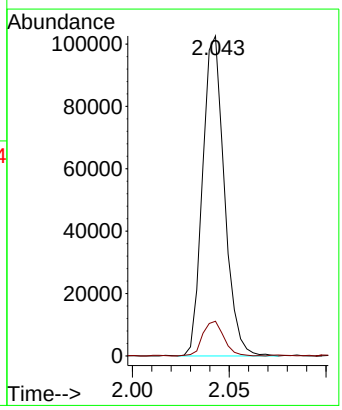


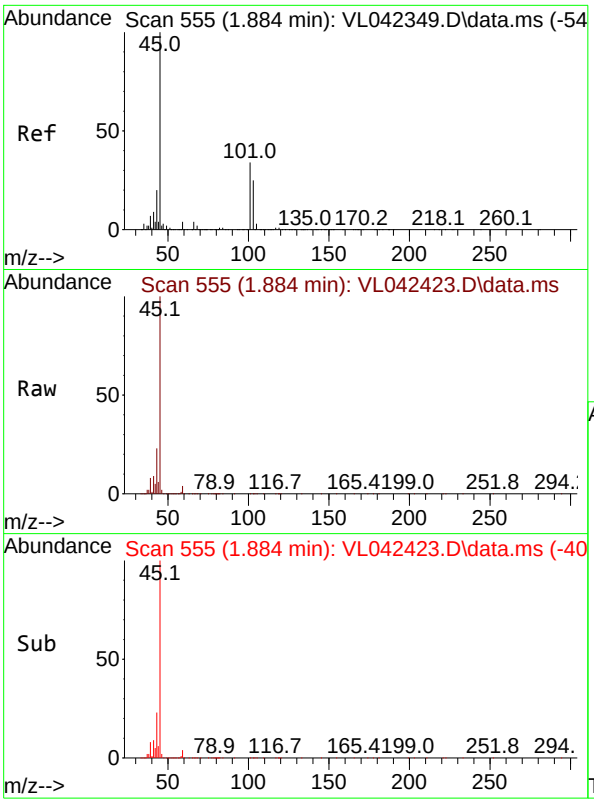




#17
tert-Butyl alcohol
Concen: 2.946 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.004 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion: 59 Resp: 80244

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 11.0 | 8.7 | 13.1 |



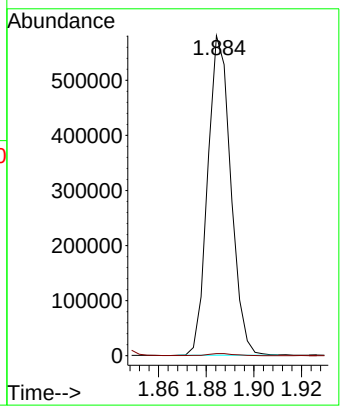


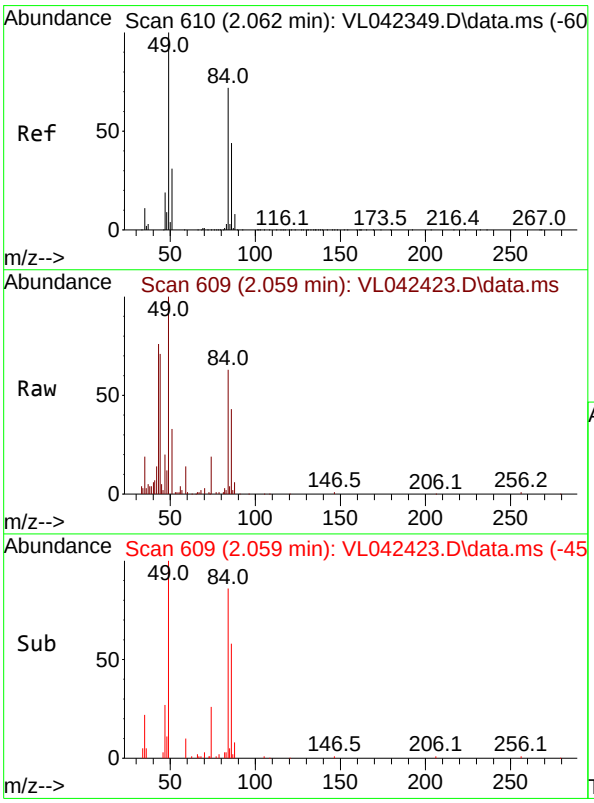

#19
Isopropyl Alcohol
Concen: 31.985 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

Tgt Ion: 45 Resp: 390564

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 28.3 | 34.5 | 51.7# |

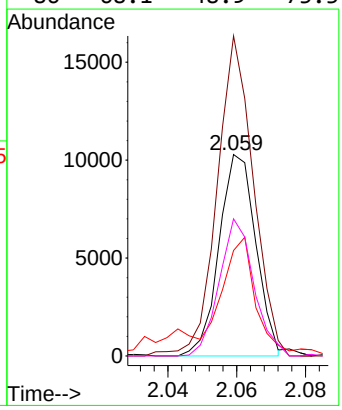


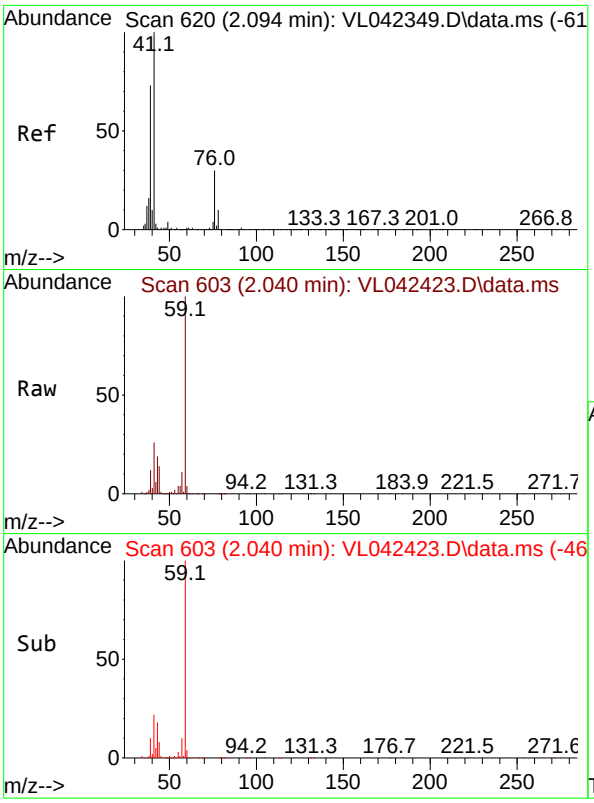




#20
Methylene Chloride
Concen: 0.886 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion: 84 Resp: 7626

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 156.3 | 111.6 | 167.4 |
| 51 | 47.0 | 35.1 | 52.7 |
| 86 | 68.1 | 48.9 | 73.3 |



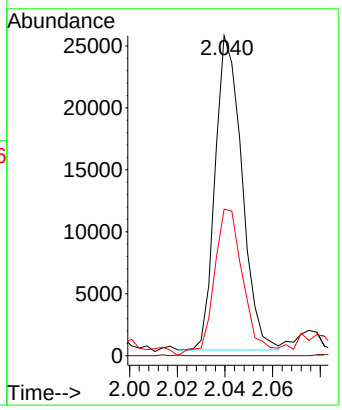


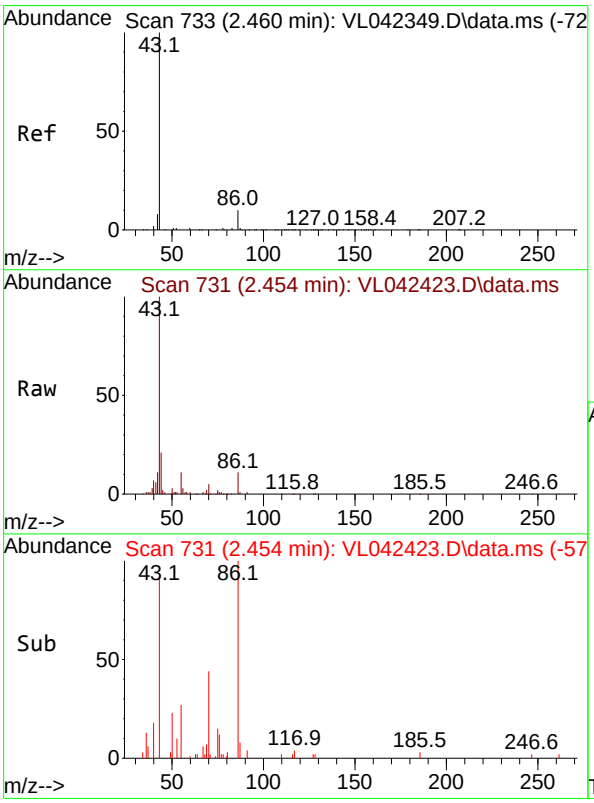

#21
Allyl Chloride
Concen: 1.302 ppbv
RT: 2.040 min Scan# 6
Delta R.T. -0.055 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

Tgt Ion: 41 Resp: 19768

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 5.9 | 24.8 | 37.2# |
| 39 | 52.4 | 60.6 | 90.8# |

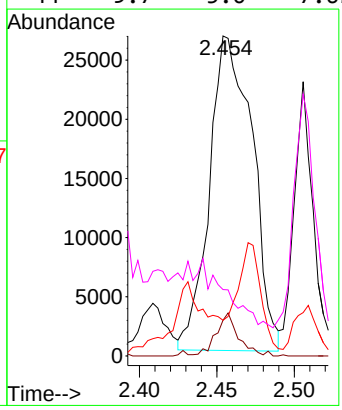


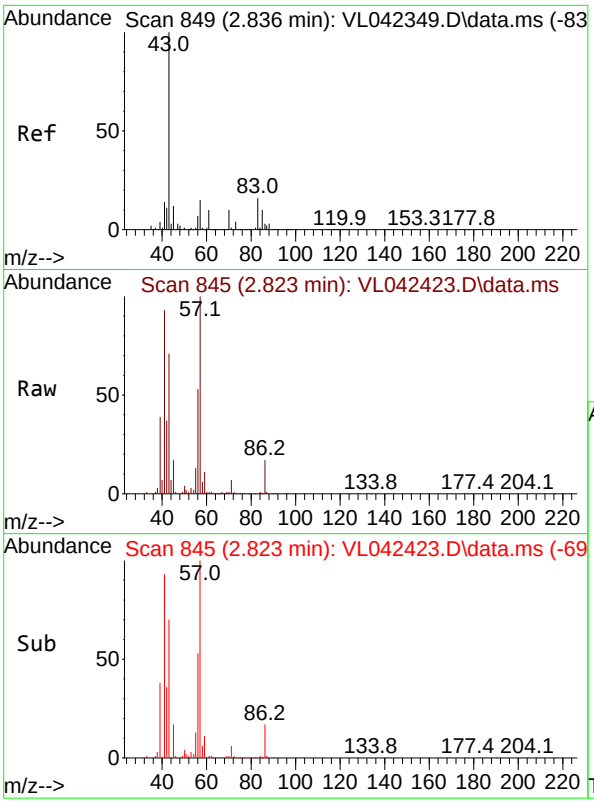




#23
Vinyl Acetate
Concen: 5.754 ppbv
RT: 2.454 min Scan# 731
Delta R.T. -0.006 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion: 43 Resp: 51200

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.8 | 6.5 | 9.7# |
| 42 | 9.3 | 7.8 | 11.8 |
| 44 | 9.7 | 5.0 | 7.6# |



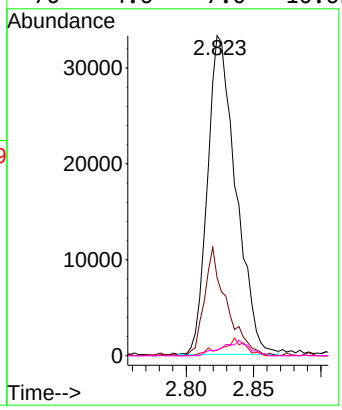


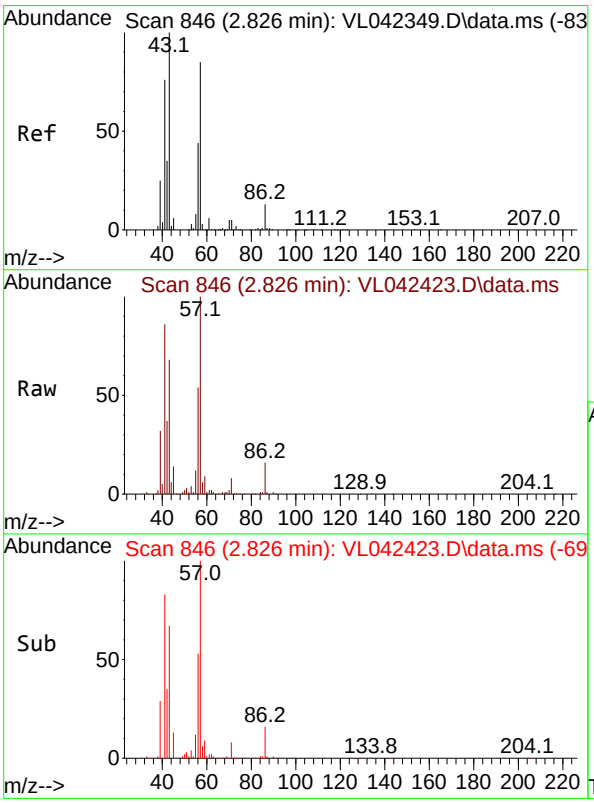

#25
Ethyl Acetate
Concen: 0.897 ppbv
RT: 2.823 min Scan# 84
Delta R.T. -0.013 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

Tgt Ion: 43 Resp: 48635

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 27.5 | 8.3 | 12.5# |
| 61 | 4.6 | 7.3 | 10.9# |
| 70 | 4.6 | 7.0 | 10.6# |

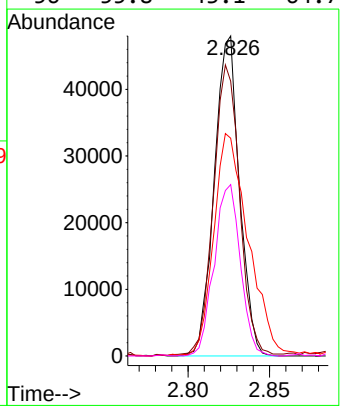


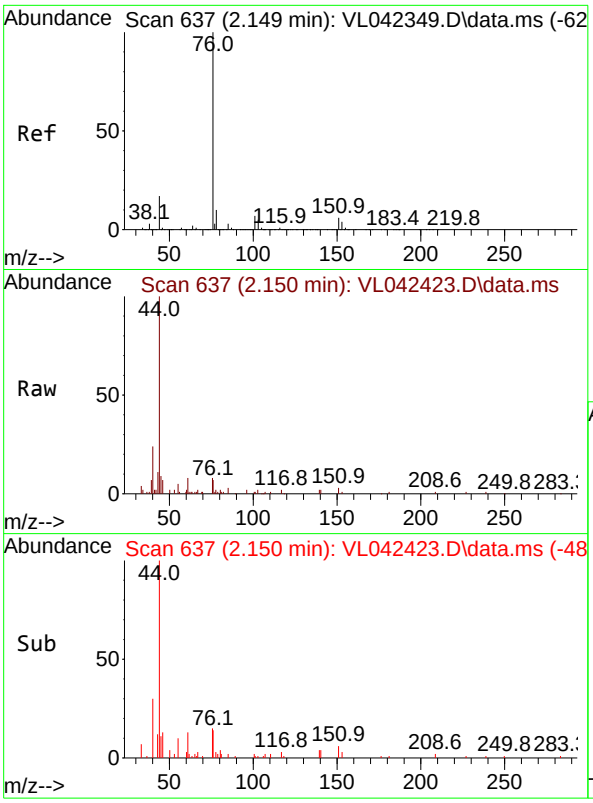




#26
Hexane
Concen: 2.354 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion: 57 Resp: 51632

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 95.5 | 77.9 | 116.9 |
| 43 | 97.6 | 208.4 | 312.6# |
| 56 | 55.8 | 43.1 | 64.7 |



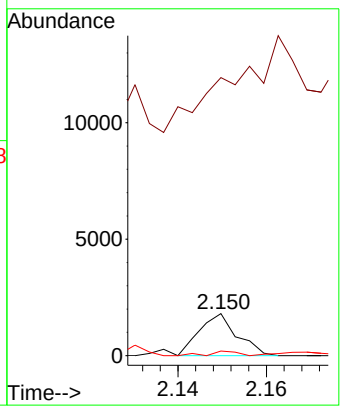


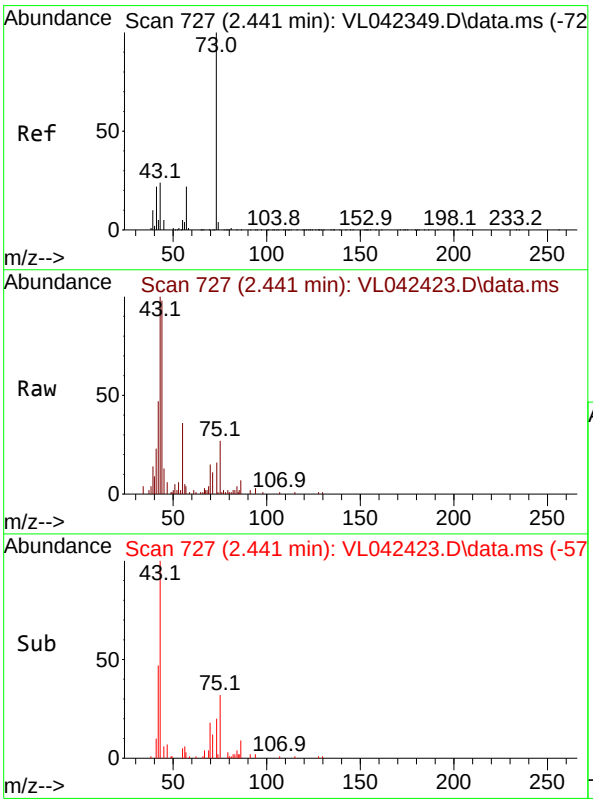

#27
Carbon Disulfide
Concen: 0.046 ppbv
RT: 2.150 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

Tgt Ion: 76 Resp: 1071

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 0.0 | 15.5 | 23.3# |
| 78 | 48.4 | 9.3 | 13.9# |

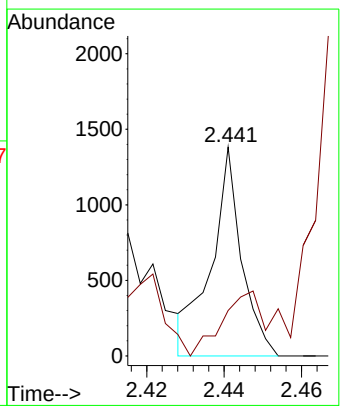


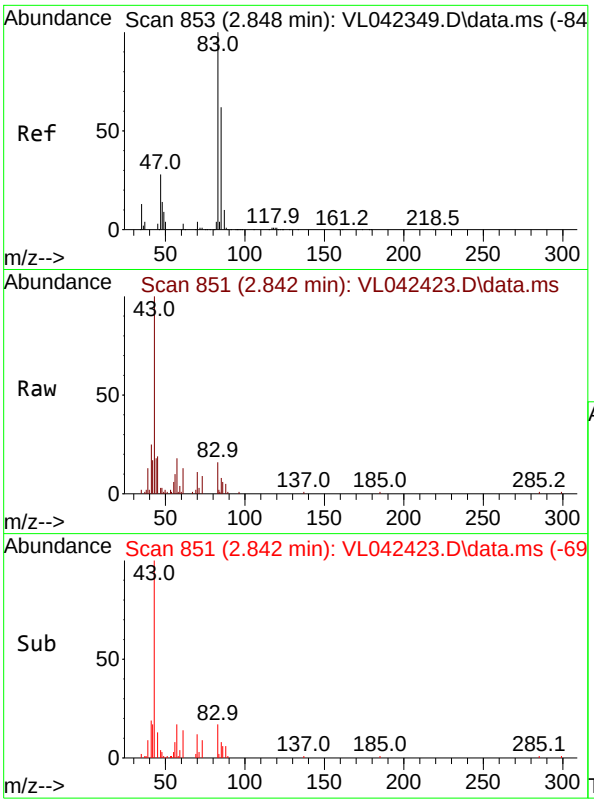




#28
Methyl tert-Butyl Ether
Concen: 0.052 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.000 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion: 73 Resp: 751

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 0.0 | 21.3 | 31.9# |



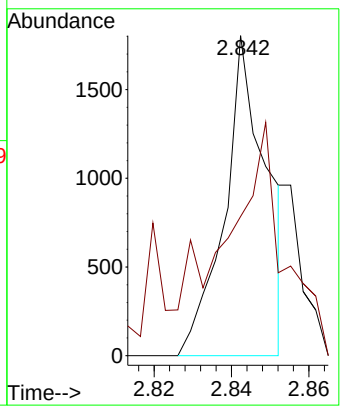


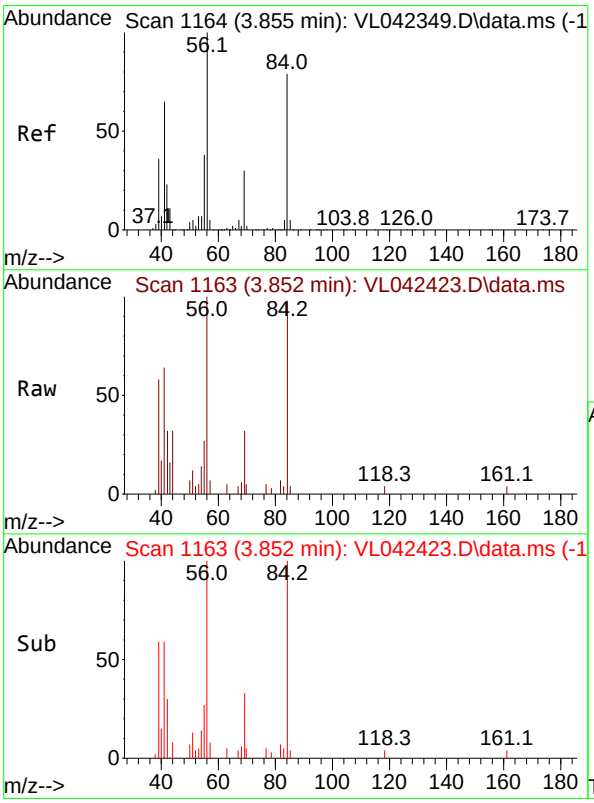

#29
Chloroform
Concen: 0.044 ppbv
RT: 2.842 min Scan# 8
Delta R.T. -0.006 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

Tgt Ion: 83 Resp: 1349

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 29.2 | 50.0 | 75.0# |

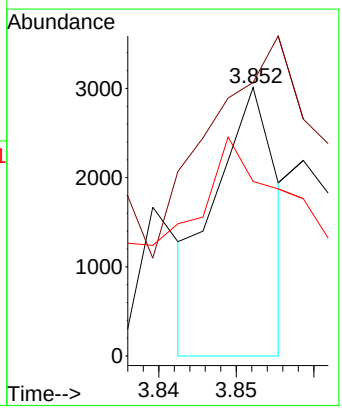


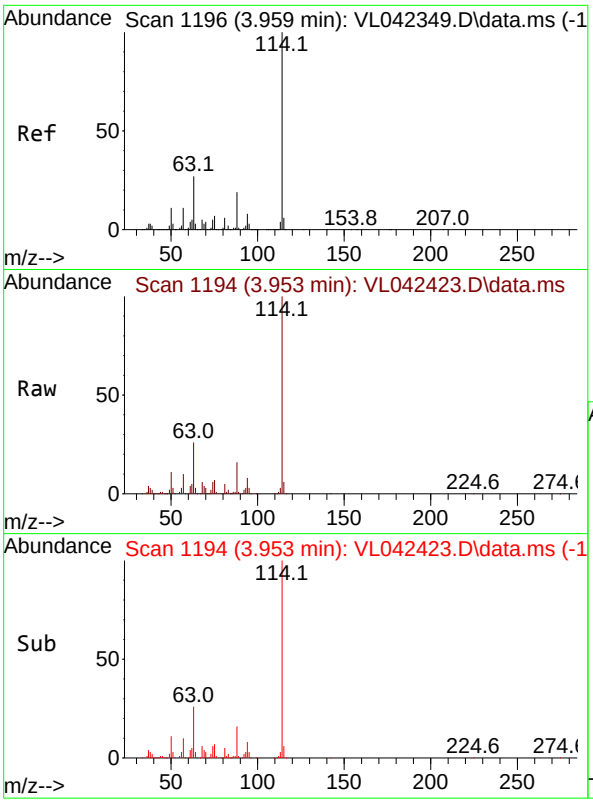




#30
Cyclohexane
Concen: 0.094 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. -0.003 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion: 84 Resp: 1658

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 333.9 | 101.0 | 151.4# |
| 41 | 230.3 | 67.4 | 101.0# |



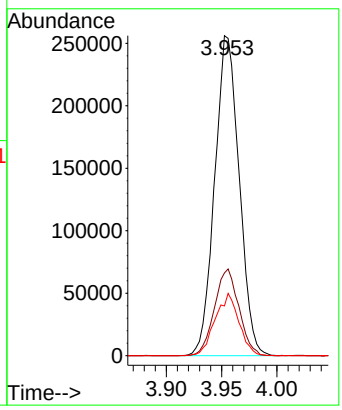


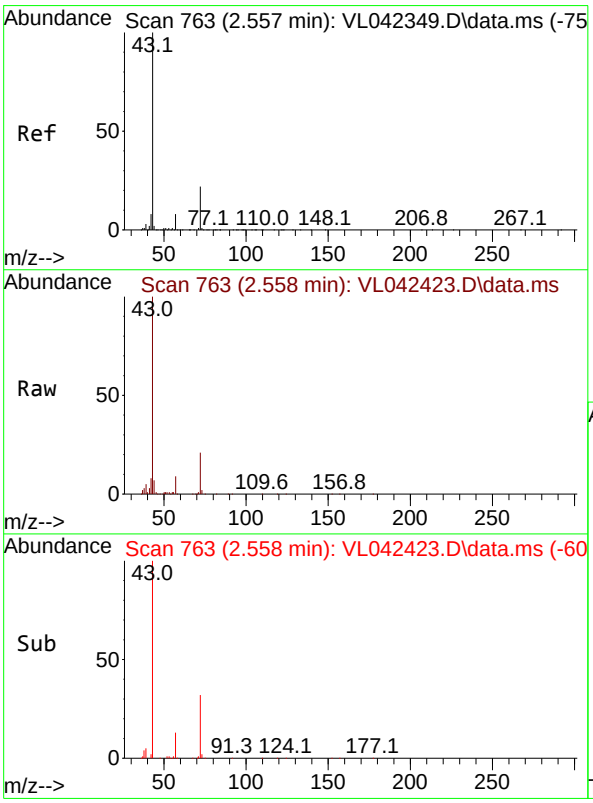

#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.953 min Scan# 11
Delta R.T. -0.006 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

Tgt Ion:114 Resp: 394249

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 27.1 | 21.8 | 32.6 |
| 88 | 19.0 | 15.5 | 23.3 |

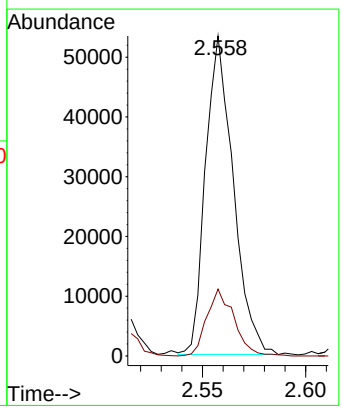


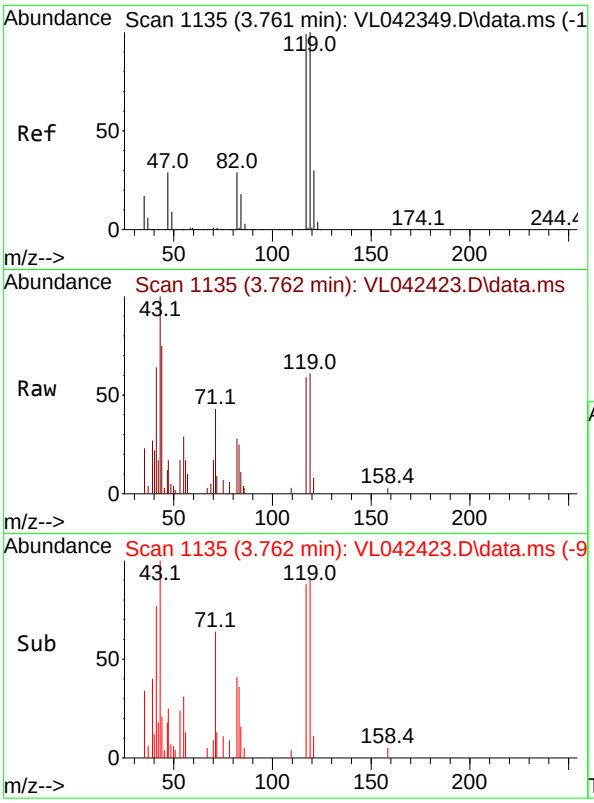




#34
2-Butanone
Concen: 1.600 ppbv
RT: 2.558 min Scan# 763
Delta R.T. 0.000 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion: 43 Resp: 49884

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 20.7 | 18.2 | 27.2 |



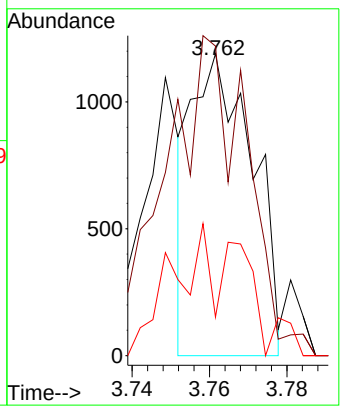


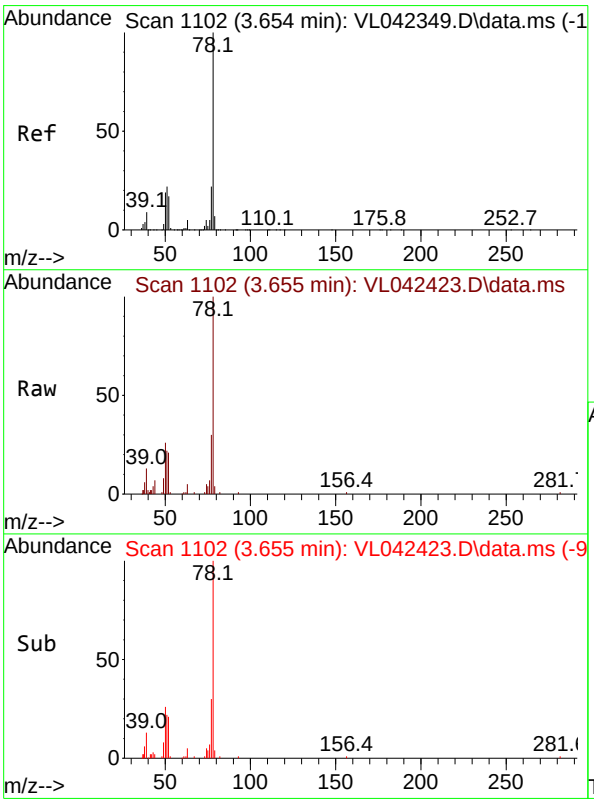

#35
Carbon Tetrachloride
Concen: 0.037 ppbv
RT: 3.762 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

Tgt Ion:117 Resp: 1314

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 106.2 | 80.5 | 120.7 |
| 121 | 0.3 | 24.2 | 36.2# |

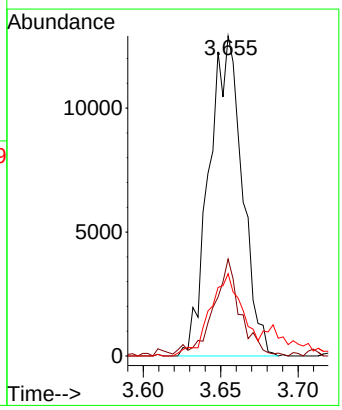


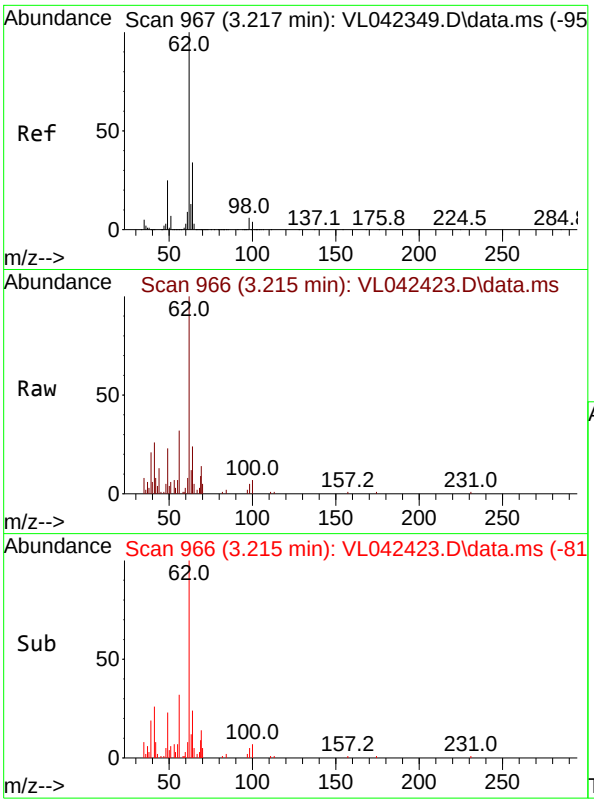




#36
Benzene
Concen: 0.452 ppbv
RT: 3.655 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion: 78 Resp: 19225

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 29.4 | 17.4 | 26.0# |
| 50 | 24.8 | 15.5 | 23.3# |



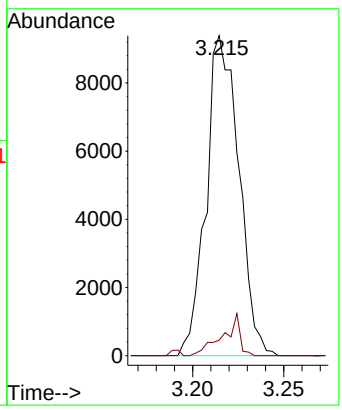


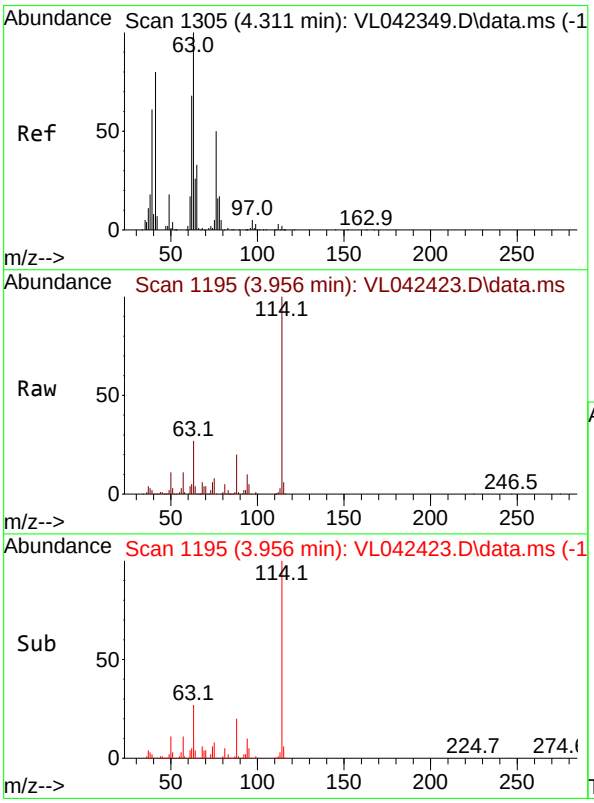

#37
1,2-Dichloroethane
Concen: 0.459 ppbv
RT: 3.215 min Scan# 9
Delta R.T. -0.003 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

Tgt Ion: 62 Resp: 11718

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 7.4 | 5.1 | 7.7 |

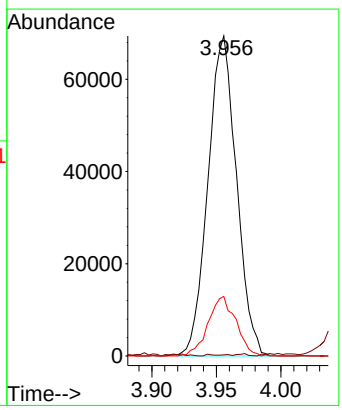


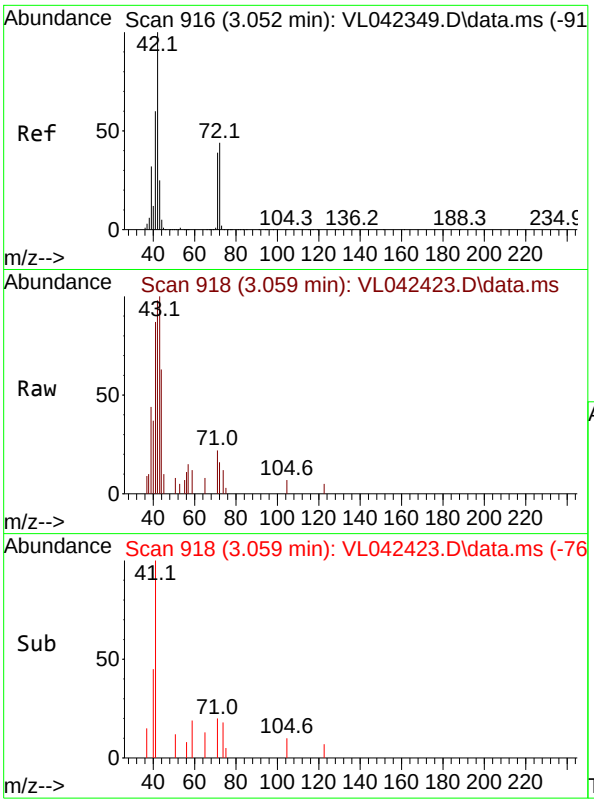




#39
1,2-Dichloropropane
Concen: 6.729 ppbv
RT: 3.956 min Scan# 1195
Delta R.T. -0.356 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion: 63 Resp: 106631

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 0.0 | 64.2 | 96.2# |
| 62 | 18.6 | 54.3 | 81.5# |



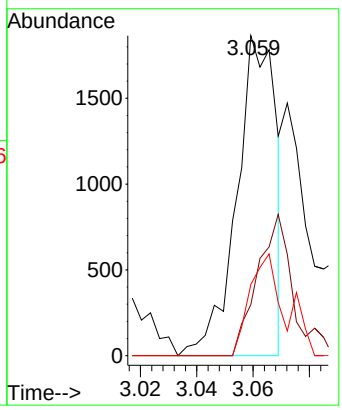


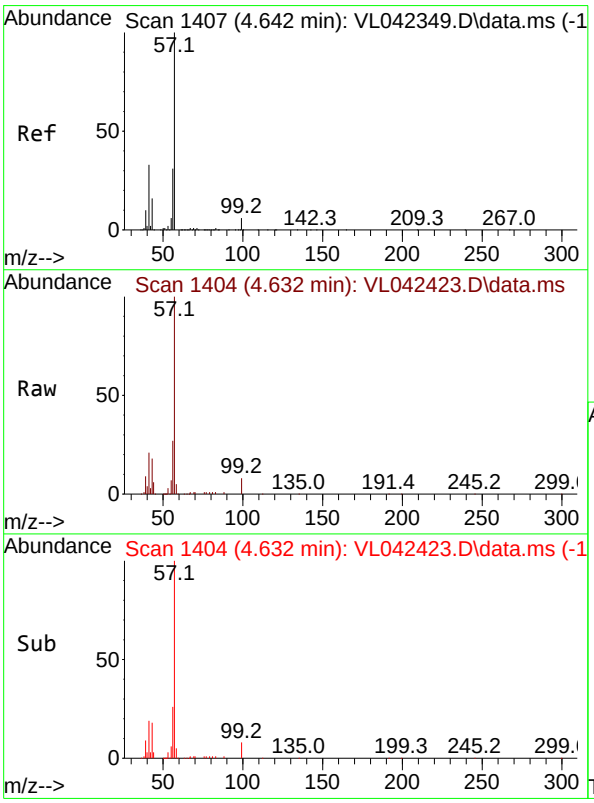

#41
Tetrahydrofuran
Concen: 0.099 ppbv
RT: 3.059 min Scan# 91
Delta R.T. 0.007 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

Tgt Ion: 42 Resp: 1802

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 0.0 | 32.3 | 48.5# |
| 71 | 0.0 | 31.4 | 47.2# |

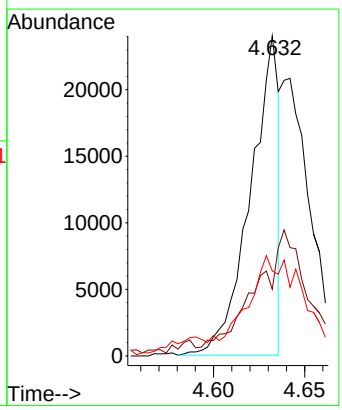


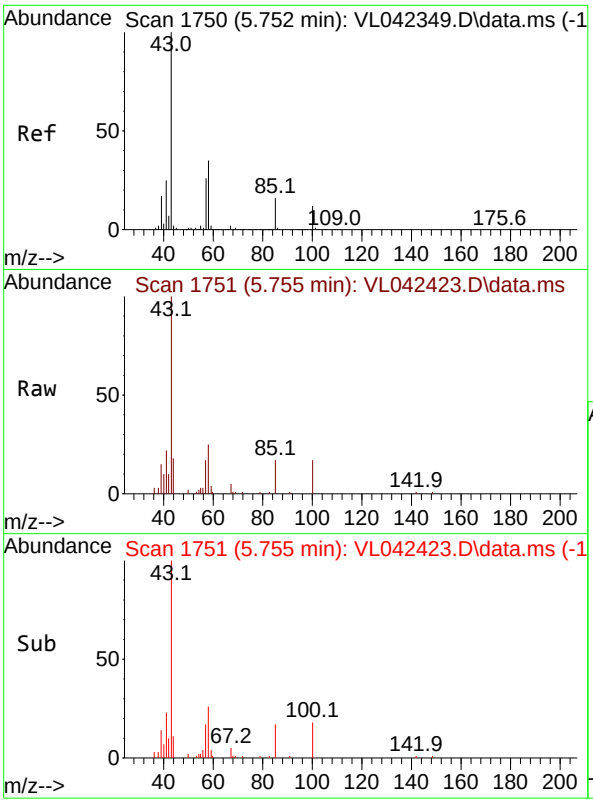




#44
2,2,4-Trimethylpentane
Concen: 0.353 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. -0.009 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion: 57 Resp: 25912

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 0.0 | 27.2 | 40.8# |
| 56 | 72.0 | 25.7 | 38.5# |



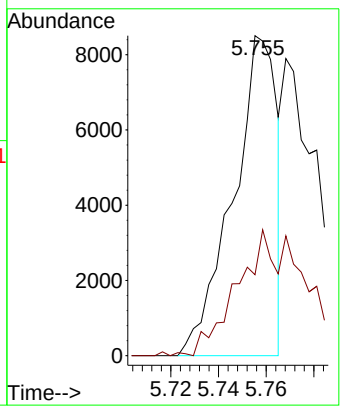


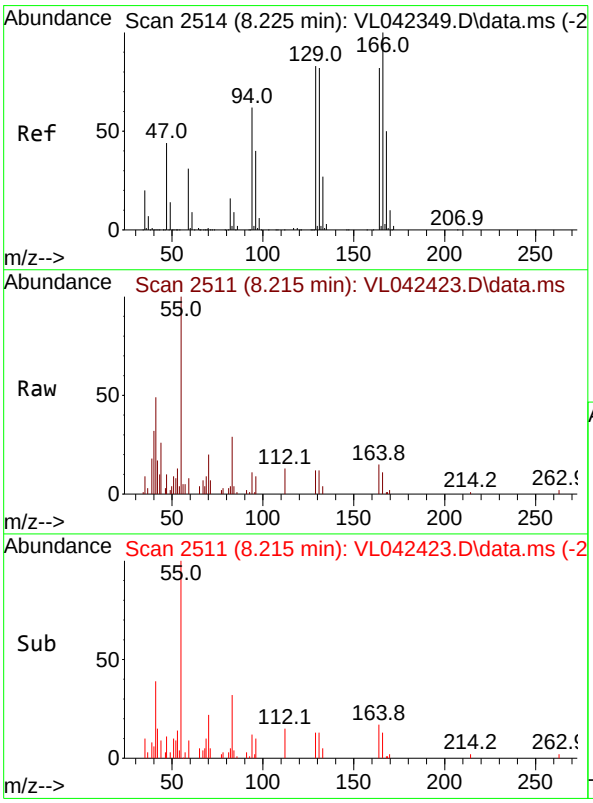

#50
4-Methyl-2-Pentanone
Concen: 0.209 ppbv
RT: 5.755 min Scan# 1
Delta R.T. 0.004 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

Tgt Ion: 43 Resp: 10827

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 68.1 | 28.6 | 43.0# |

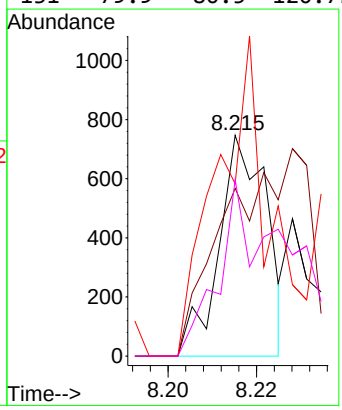


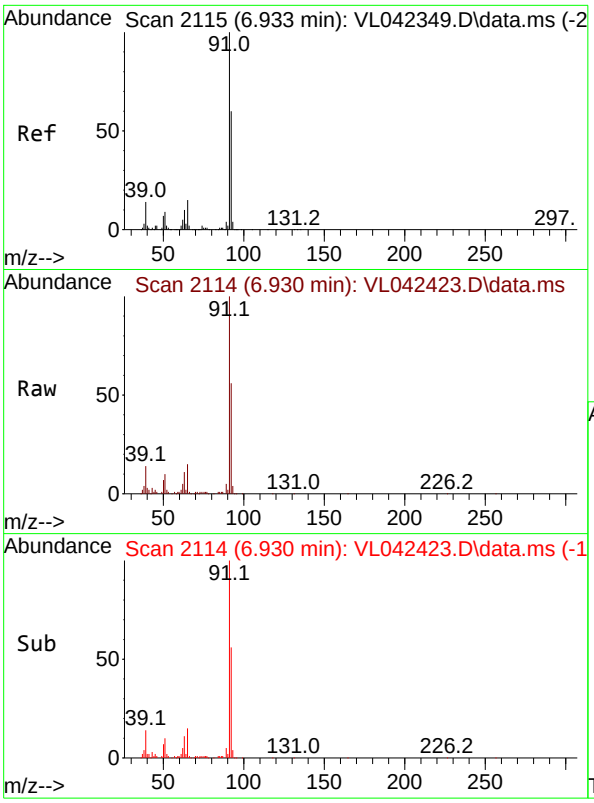




#52
Tetrachloroethene
Concen: 0.034 ppbv
RT: 8.215 min Scan# 2511
Delta R.T. -0.009 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion:164 Resp: 561

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 75.9 | 98.2 | 147.2# |
| 129 | 78.0 | 81.8 | 122.8# |
| 131 | 79.9 | 80.5 | 120.7# |



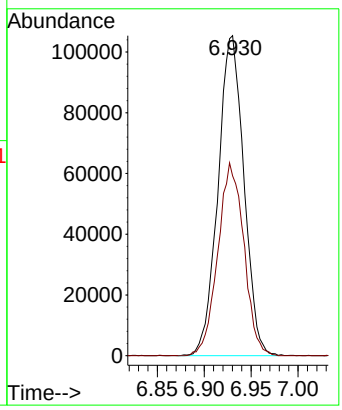


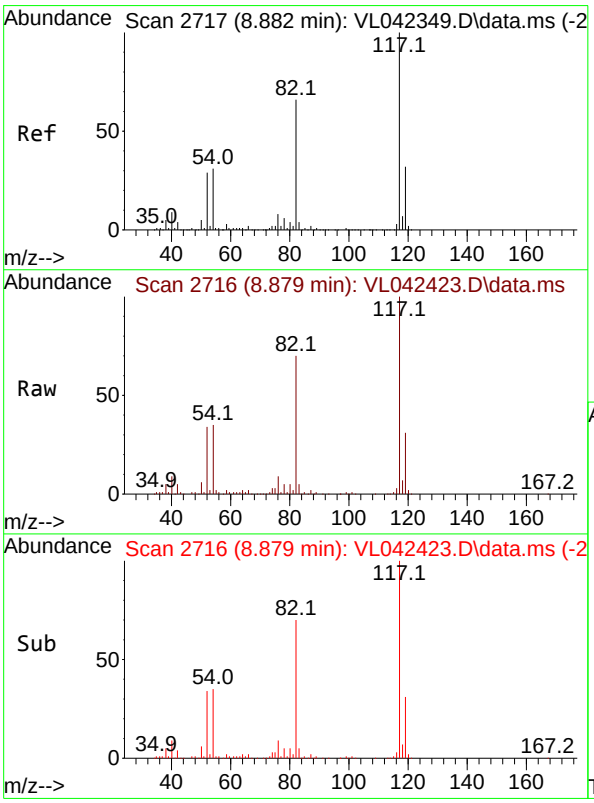

#53
Toluene
Concen: 3.959 ppbv
RT: 6.930 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

Tgt Ion: 91 Resp: 202018

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 60.6 | 48.2 | 72.4 |

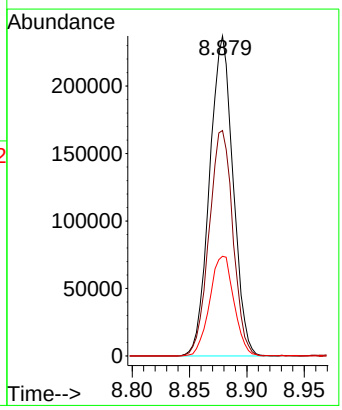


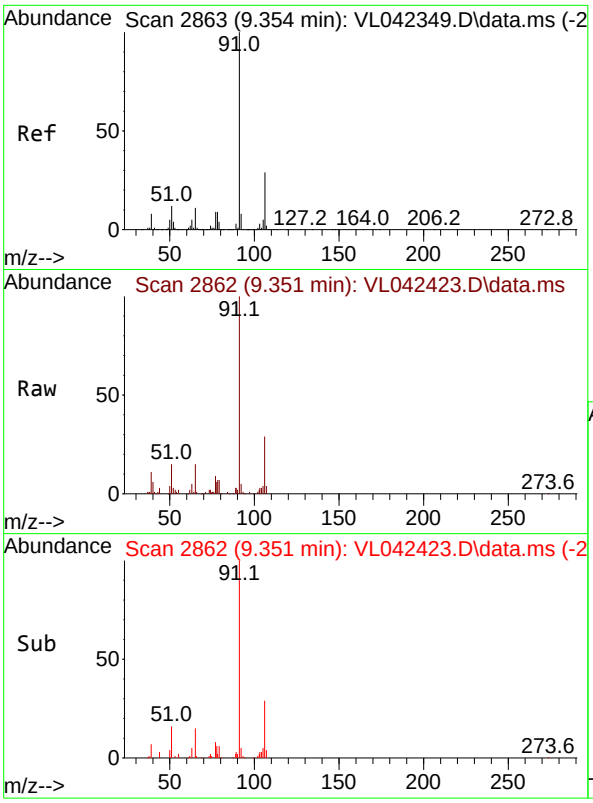




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 2716
Delta R.T. -0.003 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion:117 Resp: 337638

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 71.5 | 57.8 | 86.6 |
| 119 | 32.3 | 25.2 | 37.8 |



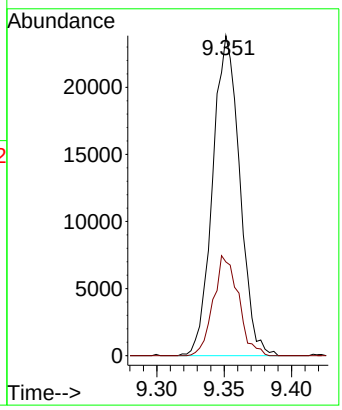


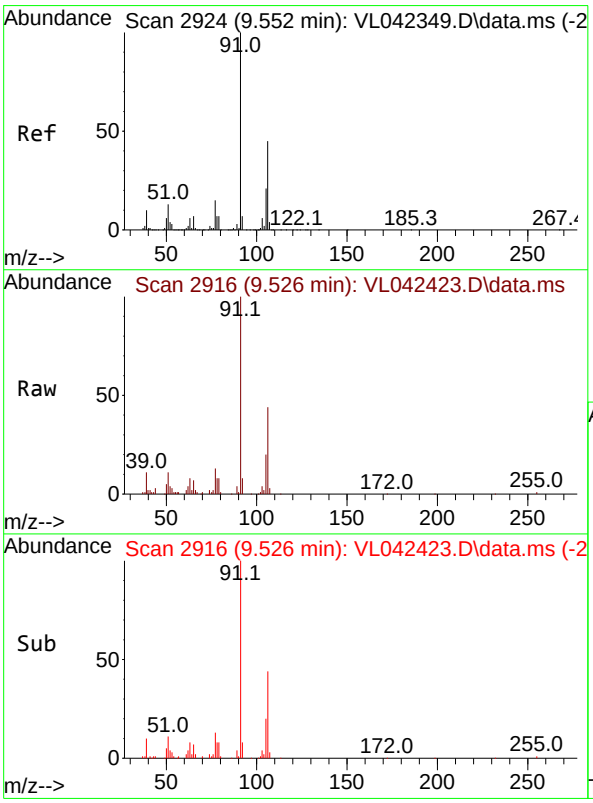

#58
Ethyl Benzene
Concen: 0.498 ppbv
RT: 9.351 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

Tgt Ion: 91 Resp: 33321

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.3 | 23.0 | 34.4 |

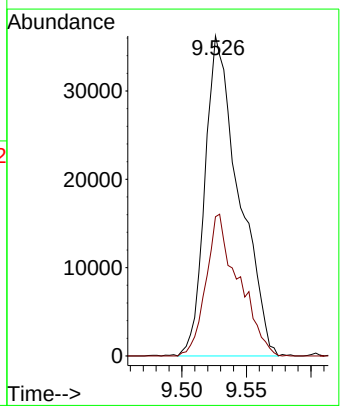


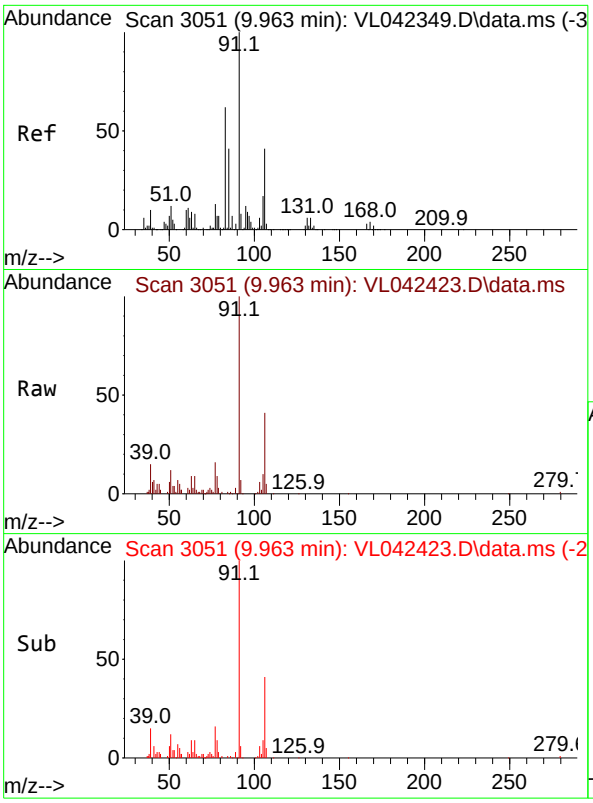




#59
m/p-Xylene
Concen: 1.233 ppbv
RT: 9.526 min Scan# 2916
Delta R.T. -0.026 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion: 91 Resp: 66442

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 42.5 | 35.4 | 53.2 |



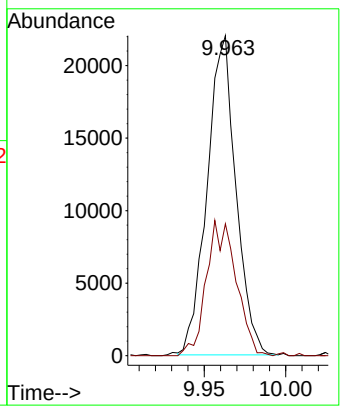


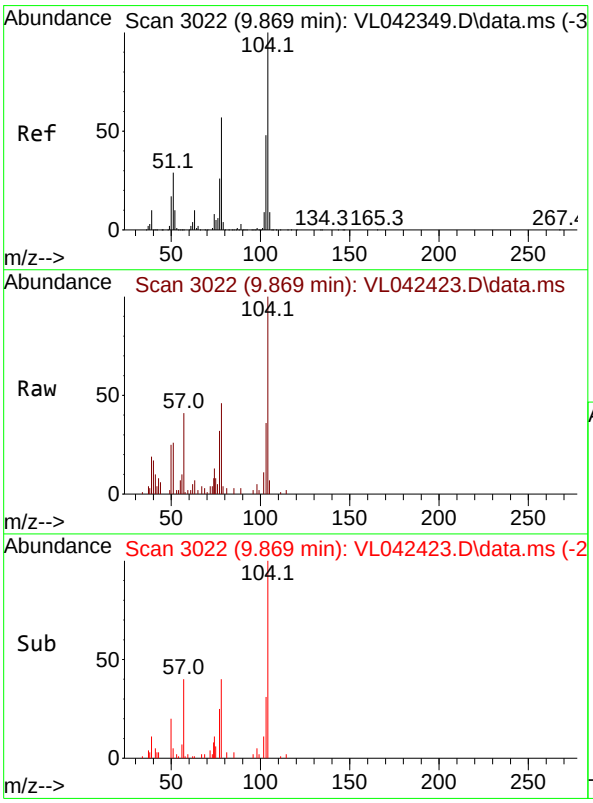

#60
o-Xylene
Concen: 0.499 ppbv
RT: 9.963 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

Tgt Ion: 91 Resp: 27079

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 43.9 | 21.1 | 63.4 |

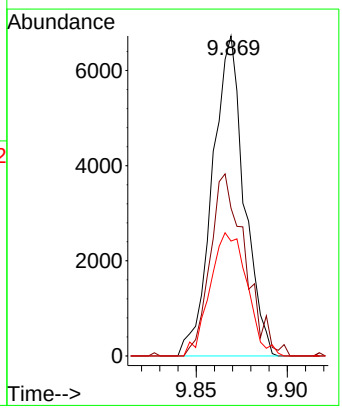


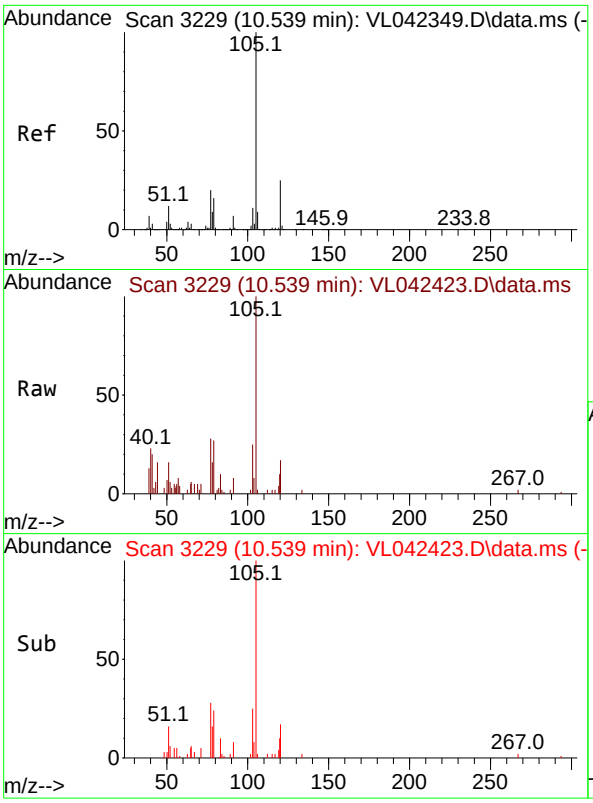




#61
Styrene
Concen: 0.316 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. 0.000 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion:104 Resp: 8176

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 62.6 | 44.6 | 66.8 |
| 103 | 44.8 | 37.4 | 56.0 |



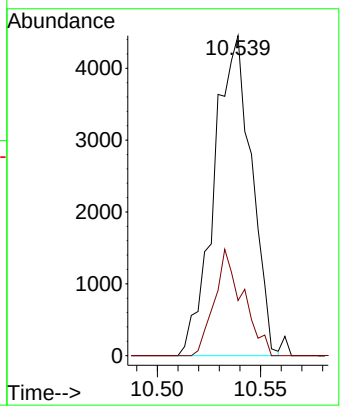


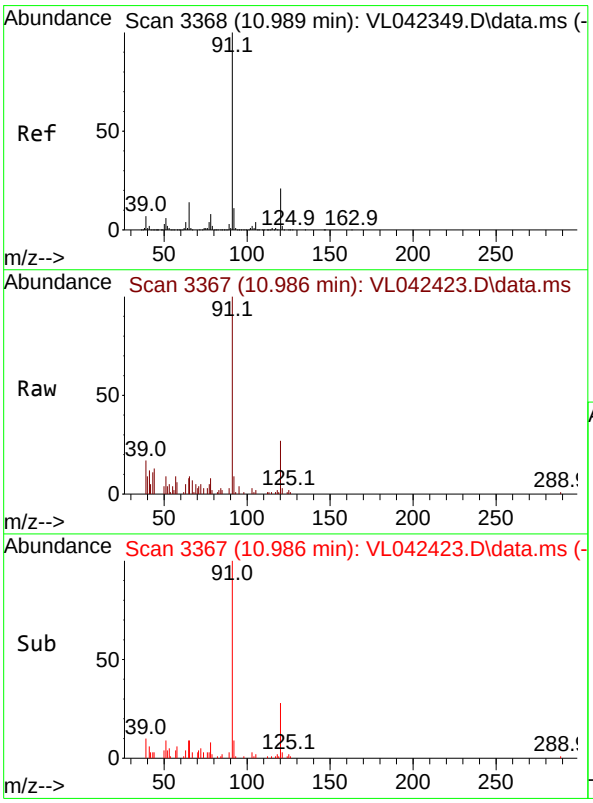

#62
Isopropylbenzene
Concen: 0.071 ppbv
RT: 10.539 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

Tgt Ion:105 Resp: 5624

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.3 | 19.8 | 29.8 |

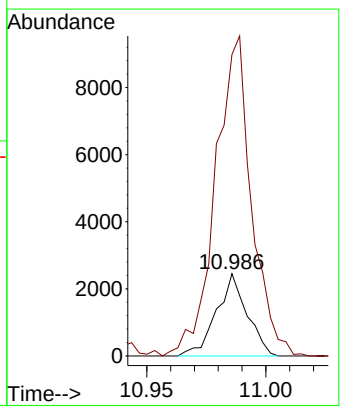


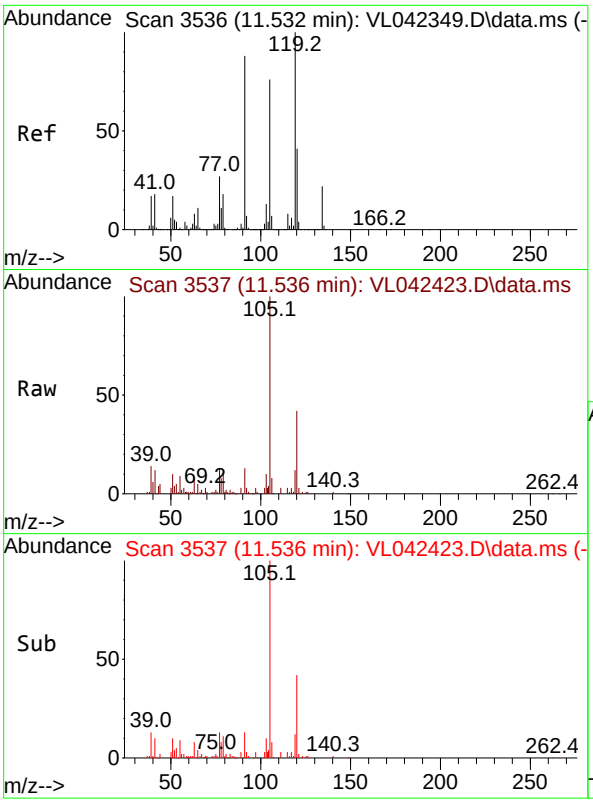




#64
n-propylbenzene
Concen: 0.109 ppbv
RT: 10.986 min Scan# 3367
Delta R.T. -0.003 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion:120 Resp: 2190

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 459.9 | 392.4 | 588.6 |



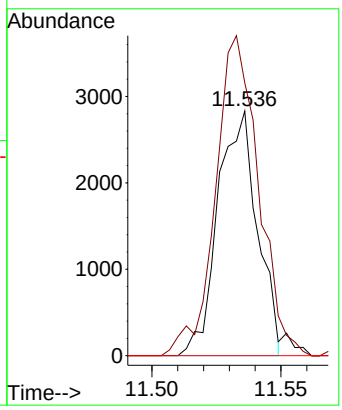


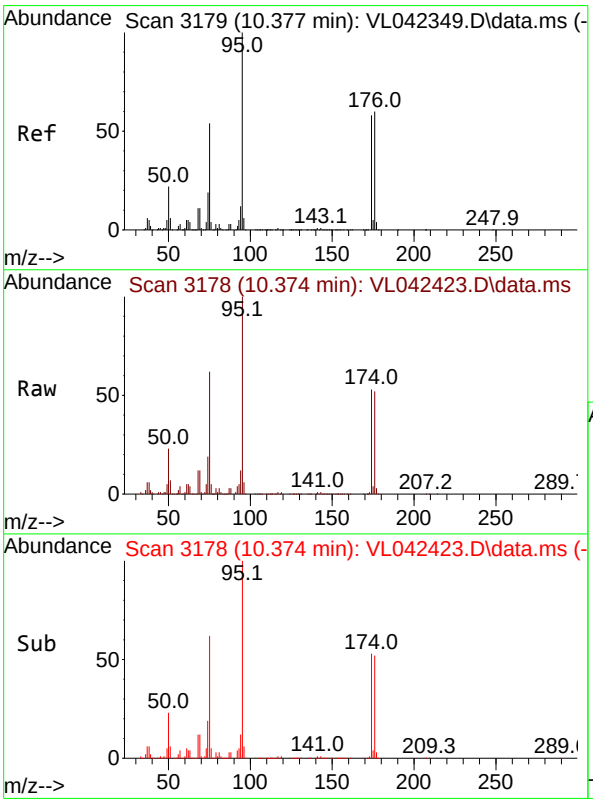

#65
tert-Butylbenzene
Concen: 0.041 ppbv
RT: 11.536 min Scan# 3
Delta R.T. 0.004 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

Tgt Ion:119 Resp: 3014

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 142.7 | 74.6 | 111.8# |
| 134 | 0.0 | 18.8 | 28.2# |

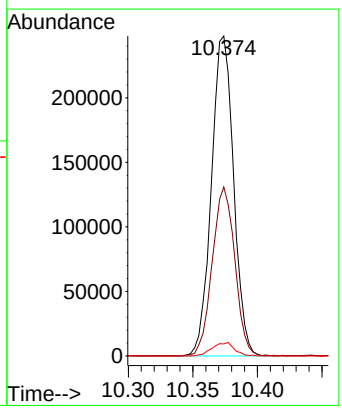


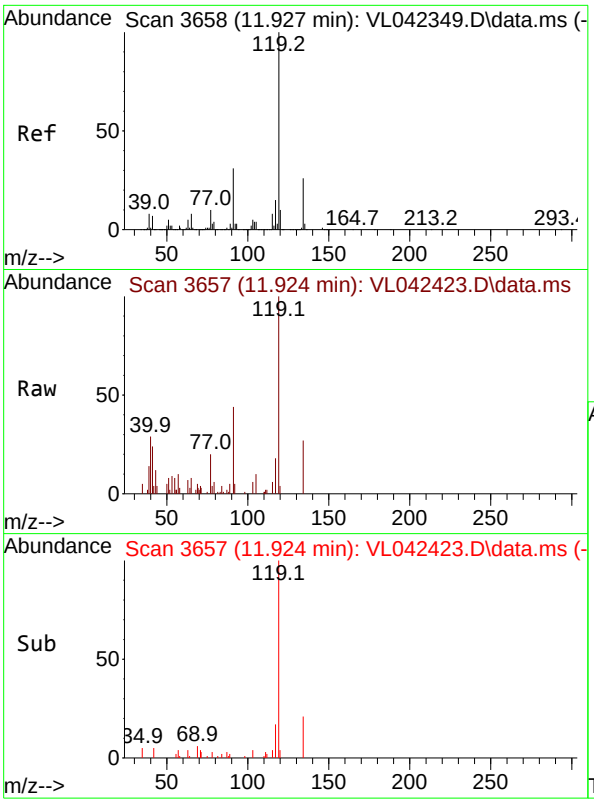




#68
1-Bromo-4-Fluorobenzene
Concen: 10.662 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.003 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion: 95 Resp: 295822

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 53.7 | 48.5 | 72.7 |
| 175 | 4.2 | 3.7 | 5.5 |



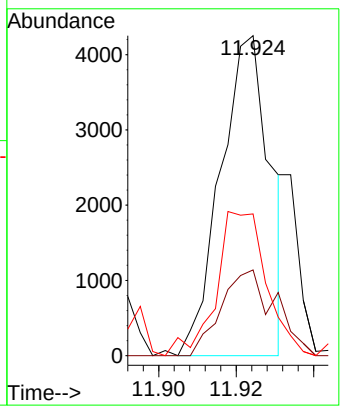


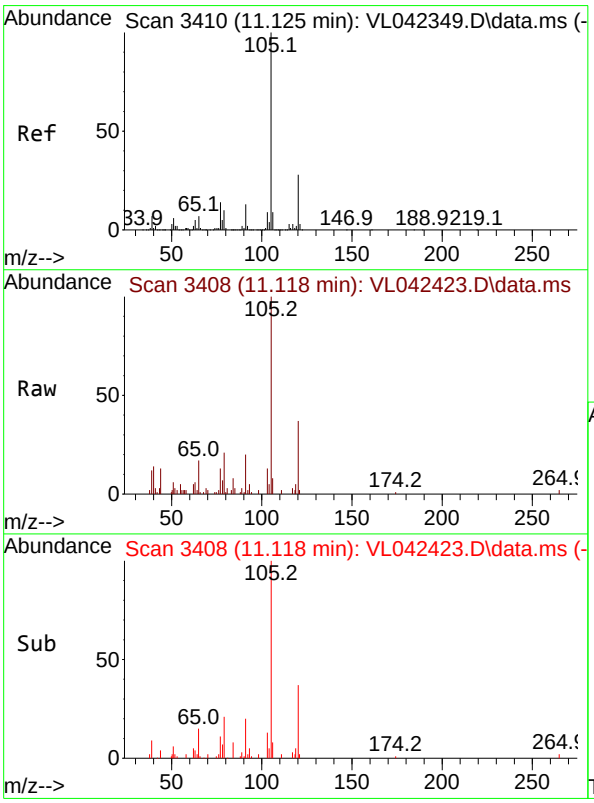

#69
p-Isopropyltoluene
Concen: 0.043 ppbv
RT: 11.924 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

Tgt Ion:119 Resp: 3785

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 29.1 | 20.0 | 30.0 |
| 91 | 51.5 | 24.4 | 36.6# |

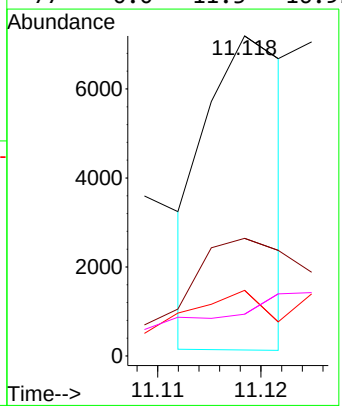


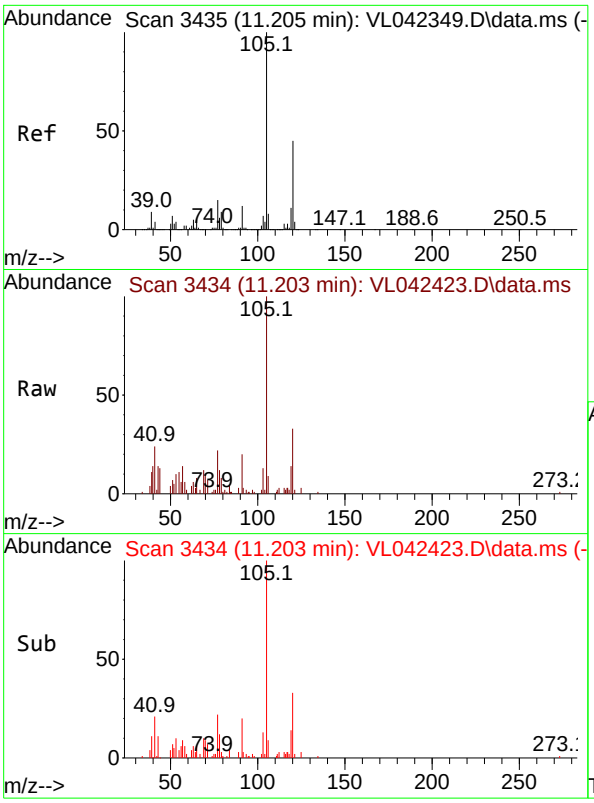




#72
4-Ethyltoluene
Concen: 0.056 ppbv
RT: 11.118 min Scan# 3408
Delta R.T. -0.006 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion:105 Resp: 3726

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 0.0 | 23.2 | 34.8# |
| 91 | 0.0 | 10.4 | 15.6# |
| 77 | 0.0 | 11.3 | 16.9# |



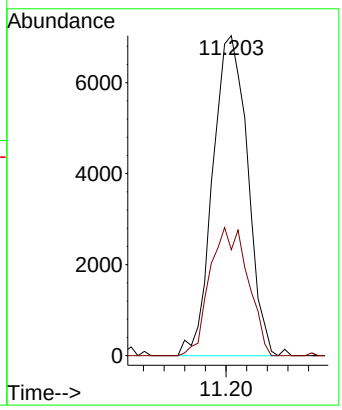


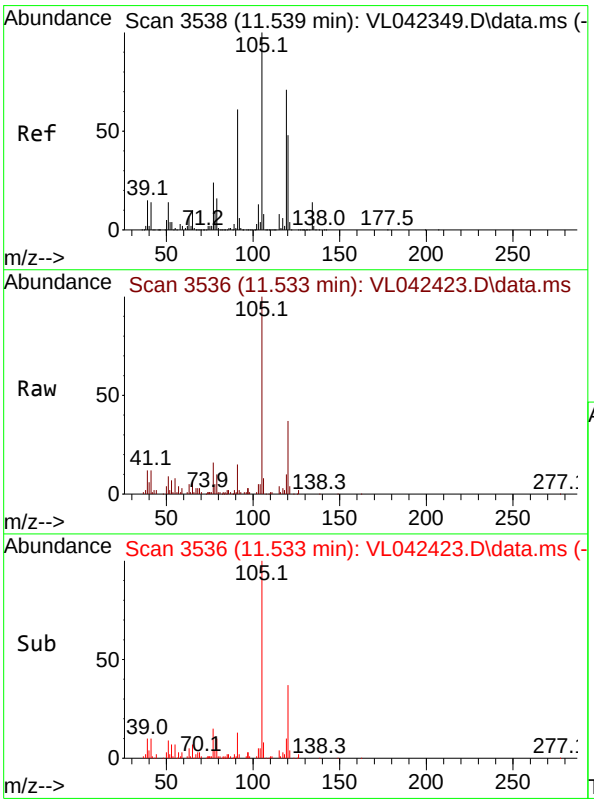

#73
1,3,5-Trimethylbenzene
Concen: 0.140 ppbv
RT: 11.203 min Scan# 34
Delta R.T. -0.003 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025

Tgt Ion:105 Resp: 8221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 33.1 | 35.6 | 53.4# |

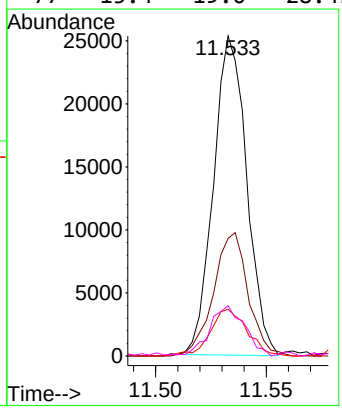



#74
1,2,4-Trimethylbenzene
Concen: 0.387 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. -0.006 min
Lab File: VL042423.D
Acq: 28 Apr 2025 13:26

Tgt Ion:105 Resp: 26441

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 36.4 | 38.1 | 57.1# |
| 91 | 14.0 | 48.8 | 73.2# |
| 77 | 15.4 | 19.0 | 28.4# |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042424.D
Acq On : 28 Apr 2025 14:00
Operator : SY/MD
Sample : Q1665-21
Misc : 400mL/MSVOA_L
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025

Quant Time: Apr 29 01:37:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) Bromochloromethane | 2.784 | 49 | 134924 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.955 | 114 | 377834 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.878 | 117 | 330143 | 10.000 | ppbv | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.374 | 95 | 284407 | 10.483 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 104.800% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.499 | 85 | 10943 | 0.459 | ppbv | | 93 |
| 3) Chlorodifluoromethane | 1.476 | 51 | 12765 | 0.562 | ppbv | # | 90 |
| 4) Chloromethane | 1.531 | 50 | 6517 | 0.691 | ppbv | | 93 |
| 6) Bromomethane | 1.670 | 94 | 217 | 0.049 | ppbv | # | 8 |
| 7) Chloroethane | 1.706 | 64 | 126 | 0.034 | ppbv | # | 42 |
| 9) Propene | 1.884 | 41 | 43468 | 4.205 | ppbv | | 87 |
| 10) Heptane | 4.968 | 43 | 4448 | 0.153 | ppbv | # | 27 |
| 11) Trichlorofluoromethane | 1.877 | 101 | 4919 | 0.217 | ppbv | | 92 |
| 12) 1,1,2-Trichlorotrifluo... | 2.136 | 101 | 1302 | 0.070 | ppbv | | 94 |
| 13) Ethanol | 1.722 | 45 | 1134596 | 690.509 | ppbv | | 81 |
| 15) Acetone | 1.835 | 43 | 335719 | 15.200 | ppbv | | 100 |
| 16) 1,3-Butadiene | 1.619 | 39 | 7122 | 0.674 | ppbv | # | 29 |
| 17) tert-Butyl alcohol | 2.043 | 59 | 7751 | 0.283 | ppbv | | 97 |
| 19) Isopropyl Alcohol | 1.884 | 45 | 490461 | 39.973 | ppbv | # | 63 |
| 20) Methylene Chloride | 2.059 | 84 | 13523 | 1.563 | ppbv | | 95 |
| 21) Allyl Chloride | 2.078 | 41 | 1344 | 0.088 | ppbv | # | 21 |
| 23) Vinyl Acetate | 2.454 | 43 | 26458 | 2.959 | ppbv | # | 79 |
| 25) Ethyl Acetate | 2.826 | 43 | 62430 | 1.146 | ppbv | # | 89 |
| 26) Hexane | 2.826 | 57 | 65044 | 2.951 | ppbv | # | 42 |
| 27) Carbon Disulfide | 2.146 | 76 | 1316 | 0.056 | ppbv | # | 1 |
| 29) Chloroform | 2.848 | 83 | 1950 | 0.063 | ppbv | # | 75 |
| 30) Cyclohexane | 3.855 | 84 | 5289 | 0.297 | ppbv | | 92 |
| 31) cis-1,2-Dichloroethene | 2.836 | 61 | 2740 | 0.131 | ppbv | # | 25 |
| 34) 2-Butanone | 2.560 | 43 | 21181 | 0.709 | ppbv | | 100 |
| 35) Carbon Tetrachloride | 3.761 | 117 | 1182 | 0.035 | ppbv | # | 32 |
| 36) Benzene | 3.654 | 78 | 17661 | 0.433 | ppbv | # | 94 |
| 37) 1,2-Dichloroethane | 3.214 | 62 | 1133 | 0.046 | ppbv | # | 84 |
| 39) 1,2-Dichloropropane | 3.959 | 63 | 102487 | 6.749 | ppbv | # | 23 |
| 41) Tetrahydrofuran | 3.065 | 42 | 982 | 0.056 | ppbv | # | 66 |
| 44) 2,2,4-Trimethylpentane | 4.632 | 57 | 16799 | 0.239 | ppbv | # | 20 |
| 53) Toluene | 6.930 | 91 | 417734 | 8.542 | ppbv | | 100 |
| 58) Ethyl Benzene | 9.351 | 91 | 24772 | 0.379 | ppbv | | 95 |
| 59) m/p-Xylene | 9.529 | 91 | 65650 | 1.246 | ppbv | | 93 |
| 60) o-Xylene | 9.963 | 91 | 27701 | 0.522 | ppbv | | 97 |
| 61) Styrene | 9.865 | 104 | 6130 | 0.242 | ppbv | | 91 |
| 62) Isopropylbenzene | 10.535 | 105 | 3004 | 0.039 | ppbv | | 96 |
| 64) n-propylbenzene | 10.985 | 120 | 1011 | 0.052 | ppbv | # | 1 |
| 69) p-Isopropyltoluene | 11.924 | 119 | 4355 | 0.050 | ppbv | # | 76 |
| 71) 2-Chlorotoluene | 10.901 | 91 | 6948 | 0.114 | ppbv | | 82 |
| 72) 4-Ethyltoluene | 11.125 | 105 | 7865 | 0.121 | ppbv | # | 56 |
| 73) 1,3,5-Trimethylbenzene | 11.205 | 105 | 7185 | 0.125 | ppbv | | 95 |
| 74) 1,2,4-Trimethylbenzene | 11.536 | 105 | 17740 | 0.265 | ppbv | # | 68 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042424.D
Acq On : 28 Apr 2025 14:00
Operator : SY/MD
Sample : Q1665-21
Misc : 400mL/MSVOA_L
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025

Quant Time: Apr 29 01:37:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

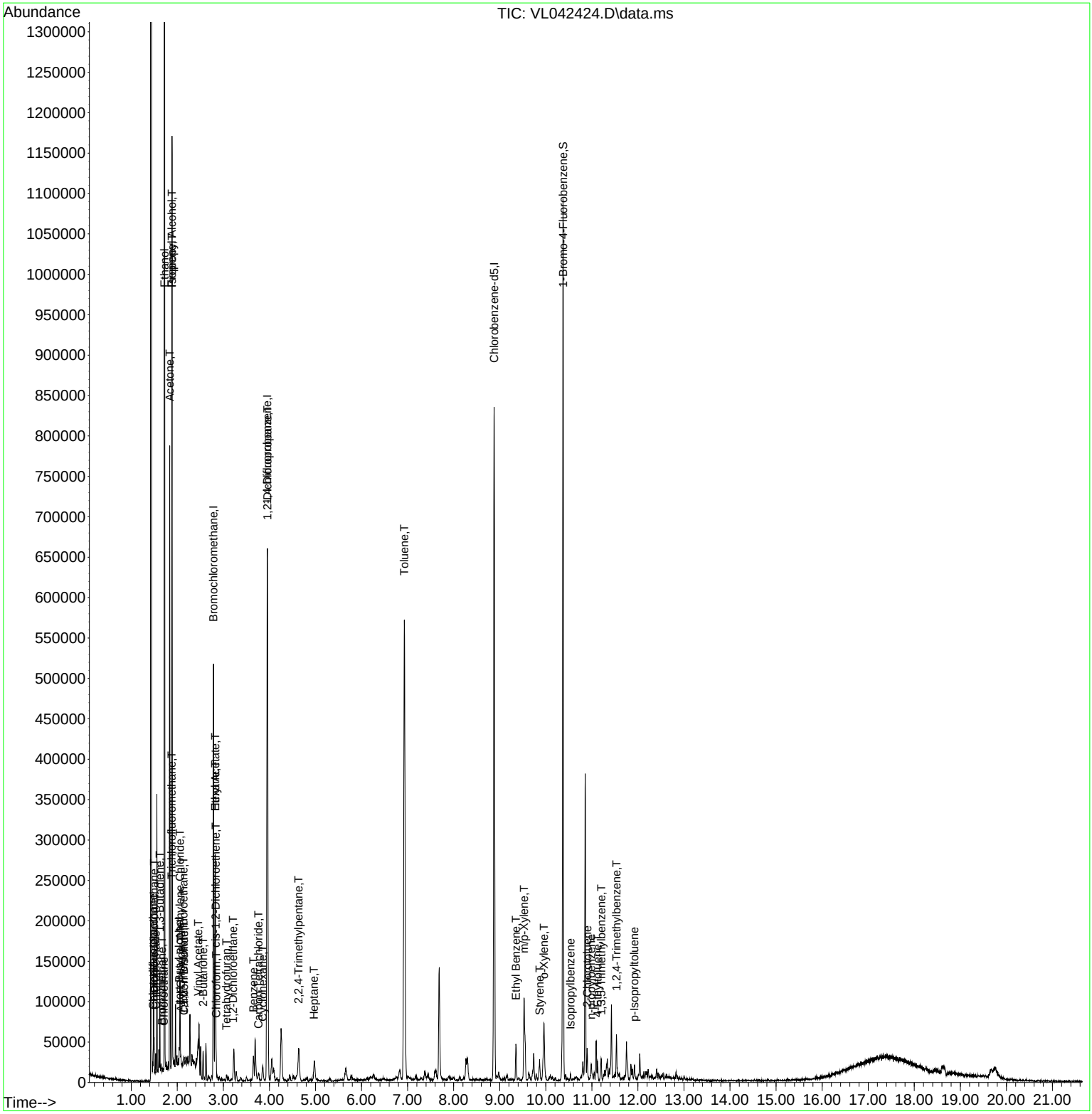
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

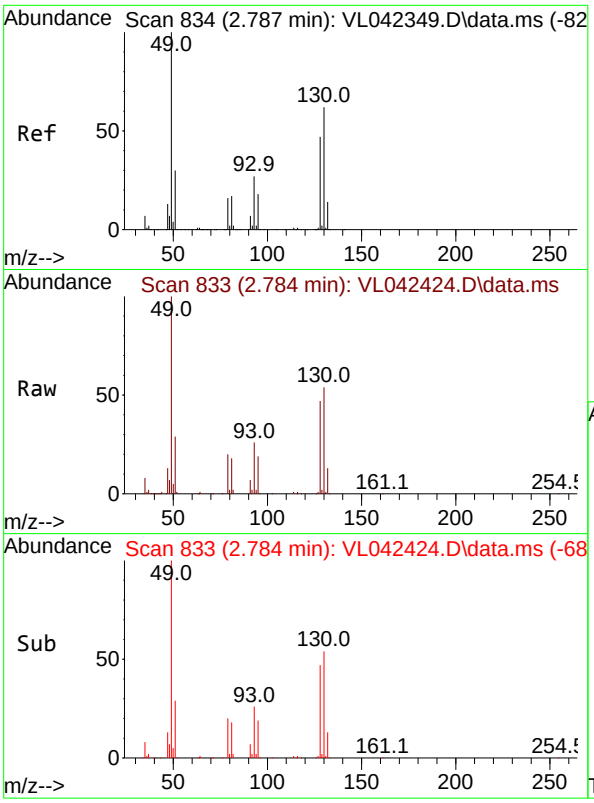
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042424.D
Acq On : 28 Apr 2025 14:00
Operator : SY/MD
Sample : Q1665-21
Misc : 400mL/MSVOA_L
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025

Quant Time: Apr 29 01:37:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration



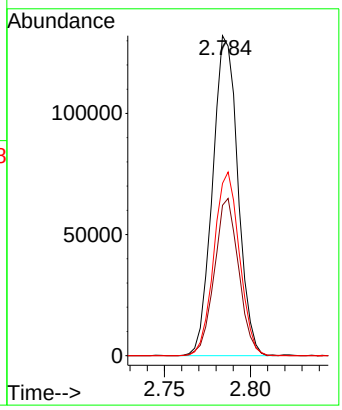


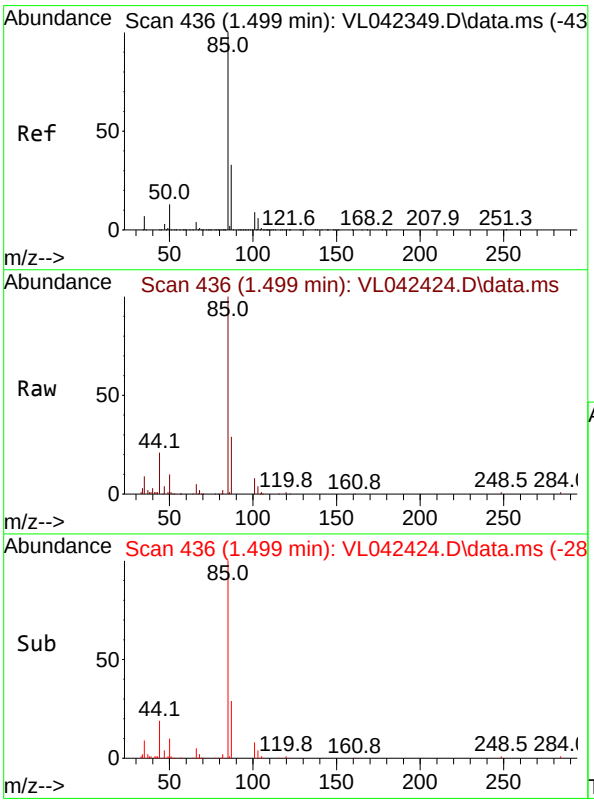

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025

Tgt Ion: 49 Resp: 134924

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 47.5 | 22.8 | 68.4 |
| 130 | 57.9 | 29.3 | 88.0 |

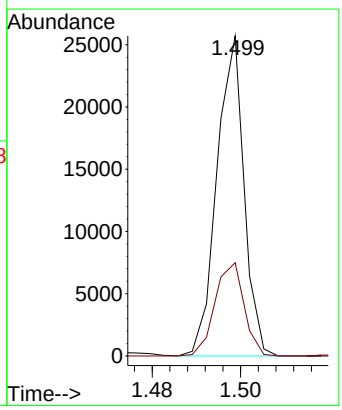


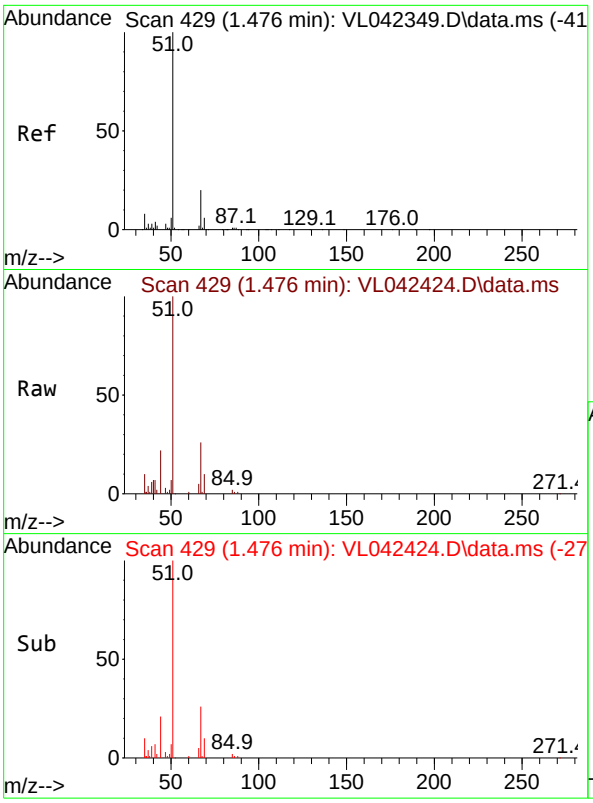




#2
Dichlorodifluoromethane
Concen: 0.459 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

Tgt Ion: 85 Resp: 10943

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 29.1 | 26.6 | 39.8 |



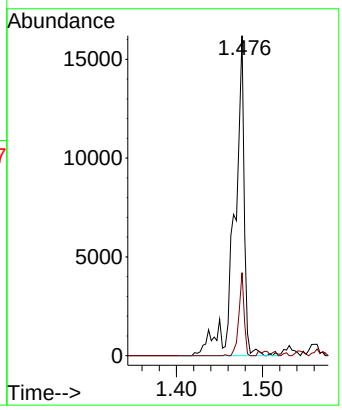


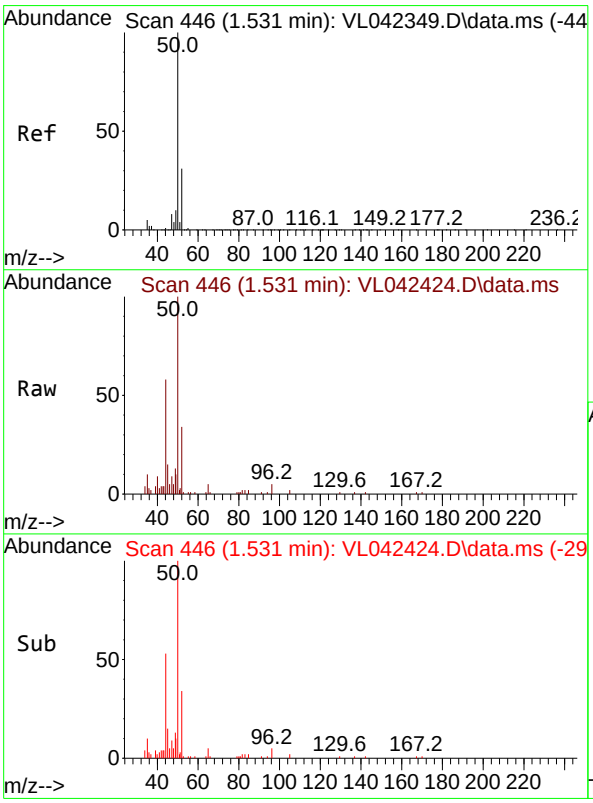

#3
Chlorodifluoromethane
Concen: 0.562 ppbv
RT: 1.476 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025

Tgt Ion: 51 Resp: 12765

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 15.7 | 16.2 | 24.4# |

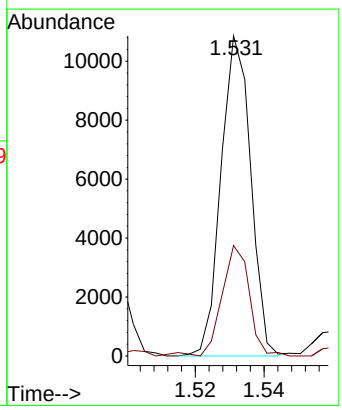


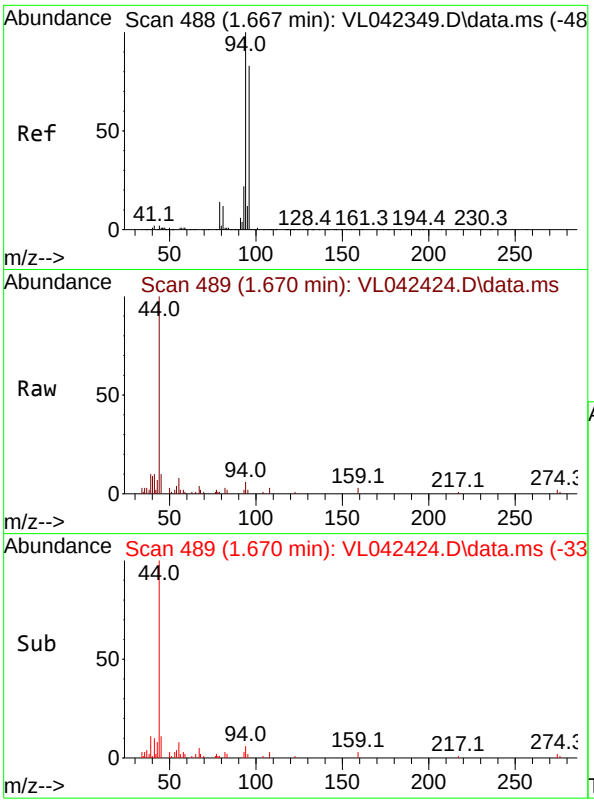




#4
Chloromethane
Concen: 0.691 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

Tgt Ion: 50 Resp: 6517

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 34.6 | 24.7 | 37.1 |



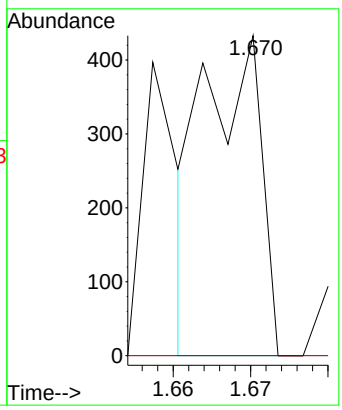


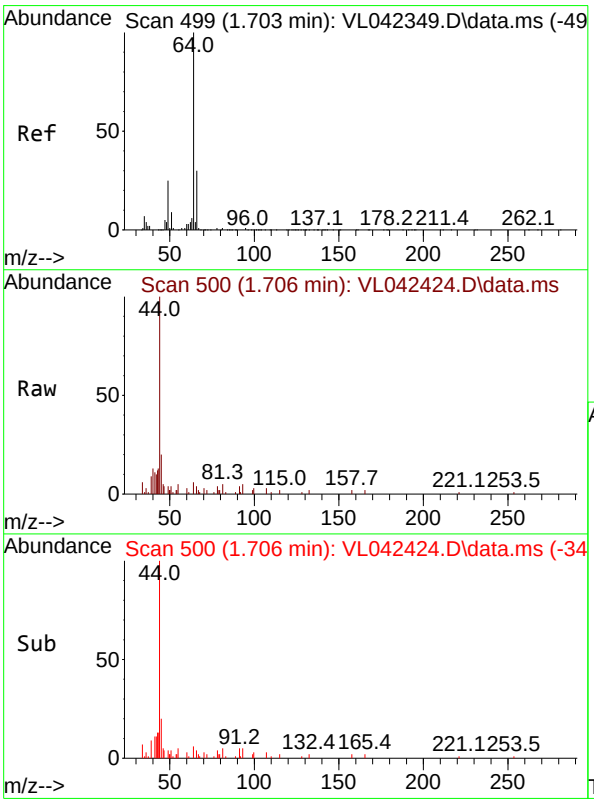

#6
Bromomethane
Concen: 0.049 ppbv
RT: 1.670 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025

Tgt Ion: 94 Resp: 217

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 0.0 | 66.2 | 99.2# |

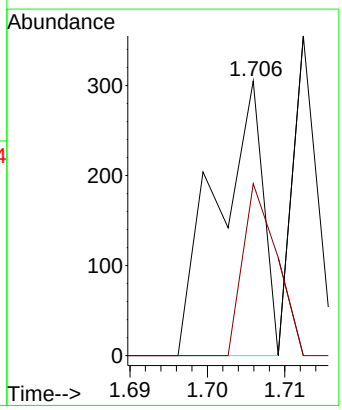


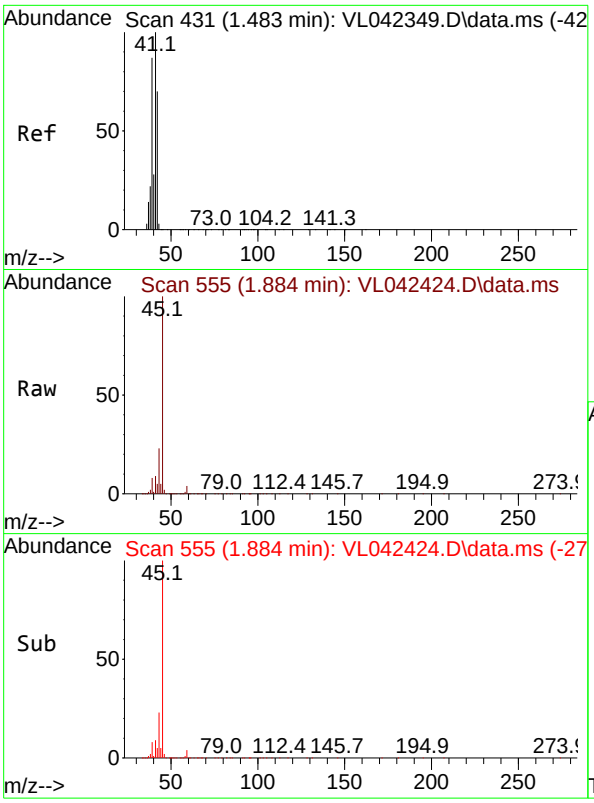




#7
Chloroethane
Concen: 0.034 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.003 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

Tgt Ion: 64 Resp: 126

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 62.6 | 24.6 | 37.0# |



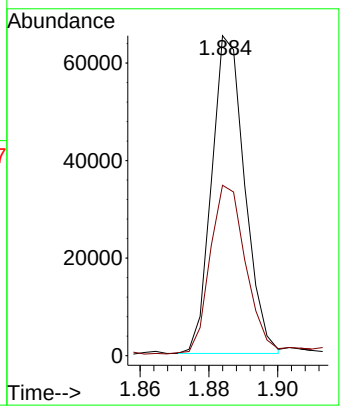


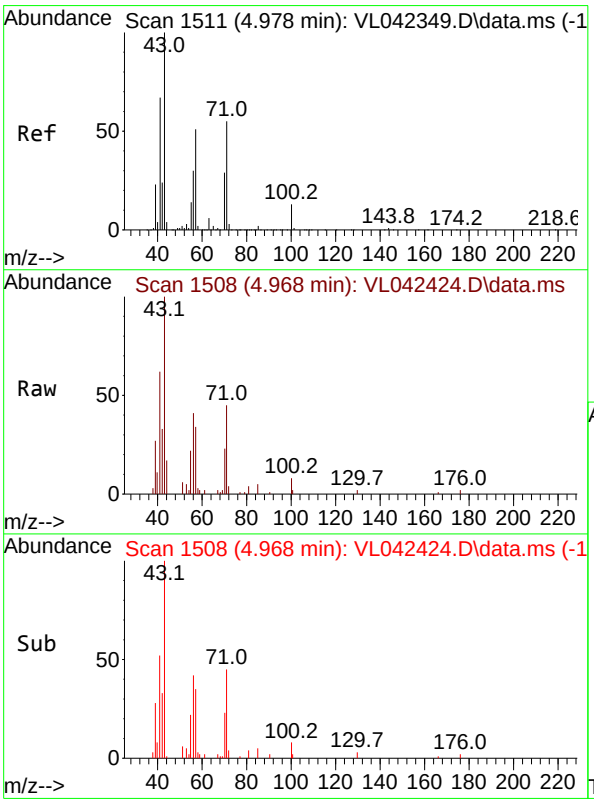

#9
Propene
Concen: 4.205 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.401 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025

Tgt Ion: 41 Resp: 43468

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 60.0 | 56.2 | 84.4 |

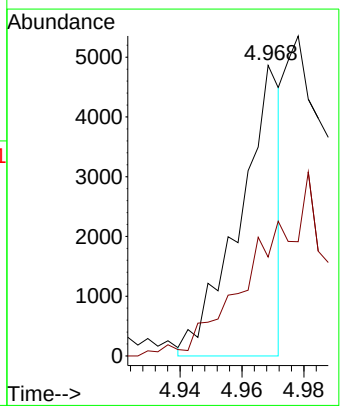


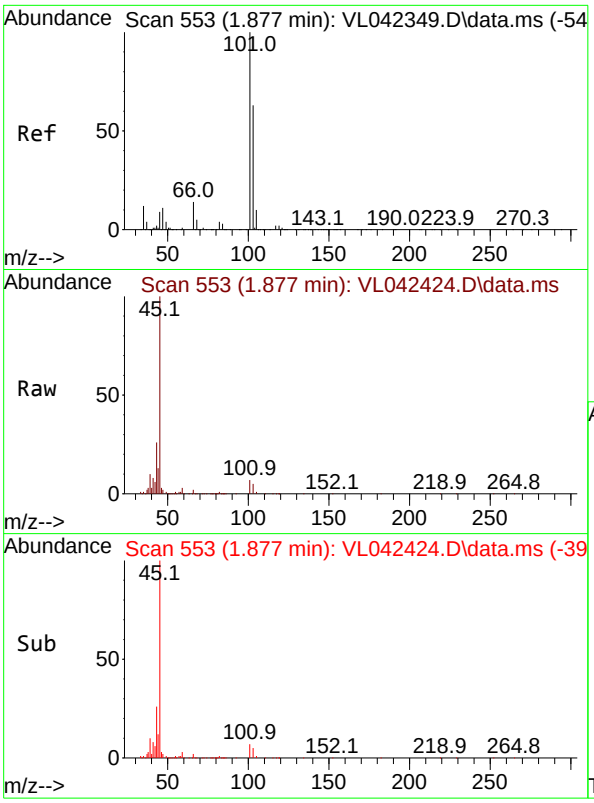




#10
Heptane
Concen: 0.153 ppbv
RT: 4.968 min Scan# 1508
Delta R.T. -0.010 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

Tgt Ion: 43 Resp: 4448

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 0.0 | 39.9 | 59.9# |



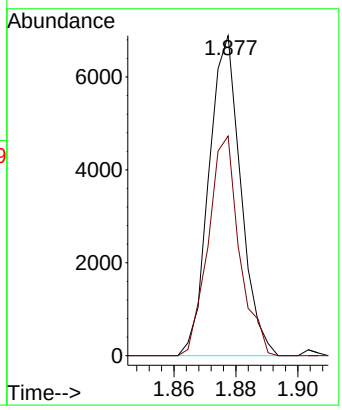


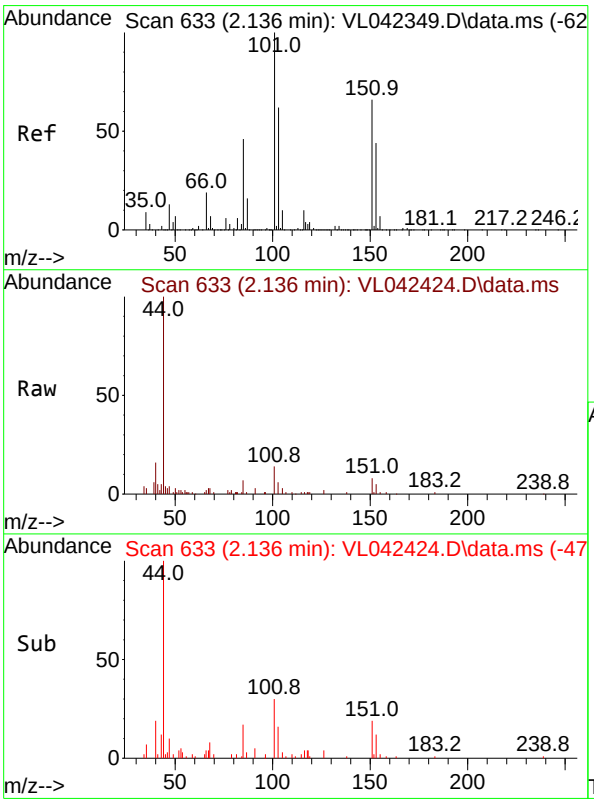

#11
Trichlorofluoromethane
Concen: 0.217 ppbv
RT: 1.877 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025

Tgt Ion:101 Resp: 4919

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 68.7 | 50.1 | 75.1 |

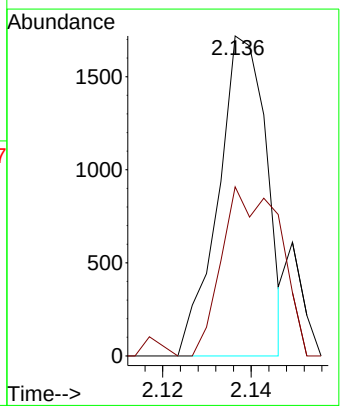


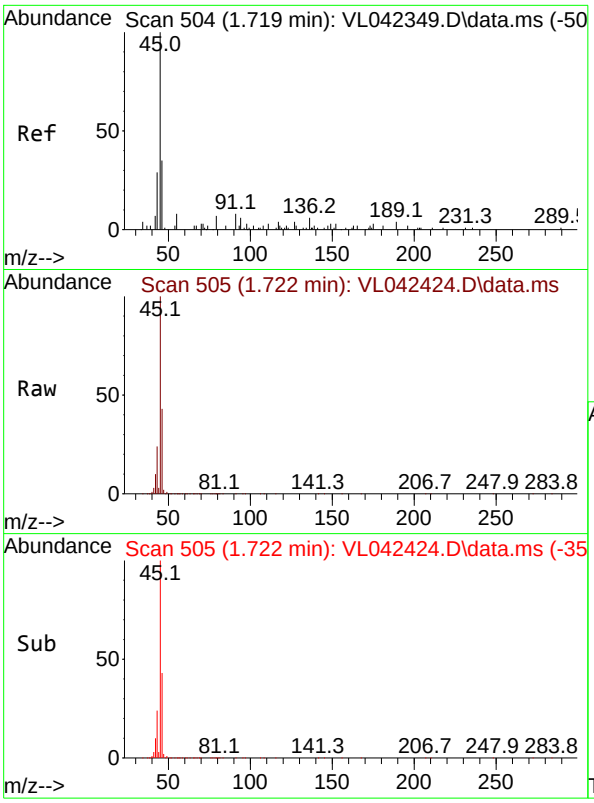




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.070 ppbv
RT: 2.136 min Scan# 633
Delta R.T. 0.000 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

Tgt Ion:101 Resp: 1302

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 66.0 | 57.0 | 85.6 |



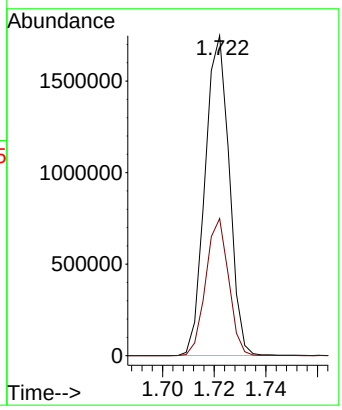


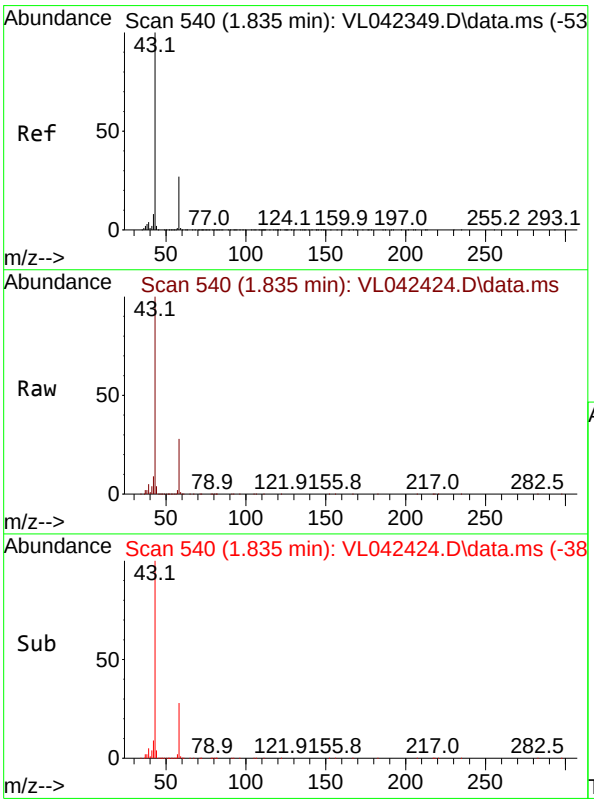

#13
Ethanol
Concen: 690.509 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025

Tgt Ion: 45 Resp: 1134596

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 40.7 | 21.9 | 87.7 |

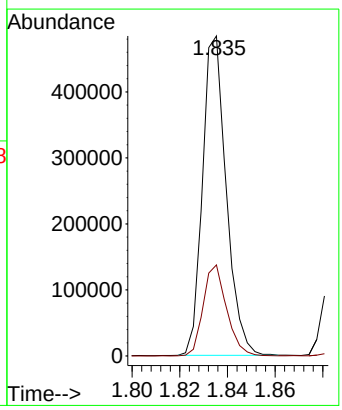


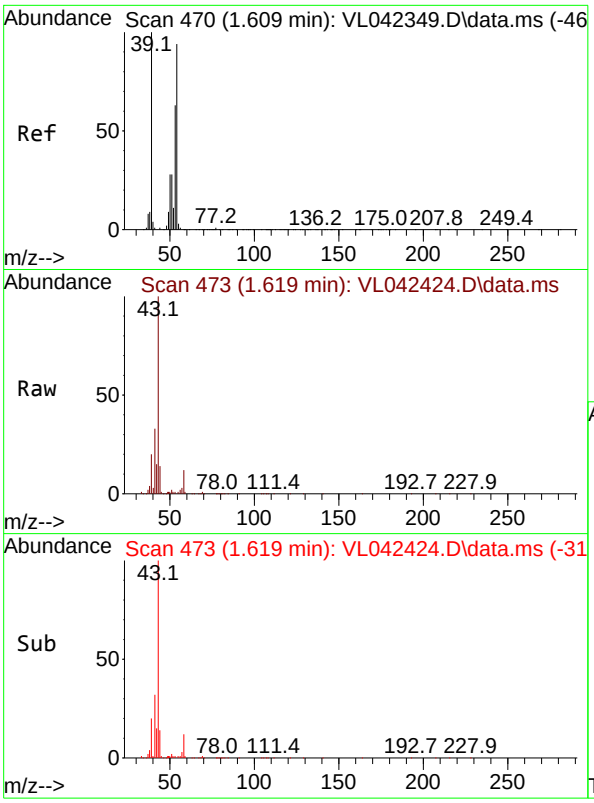




#15
Acetone
Concen: 15.200 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

Tgt Ion: 43 Resp: 335719

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 28.2 | 22.4 | 33.6 |



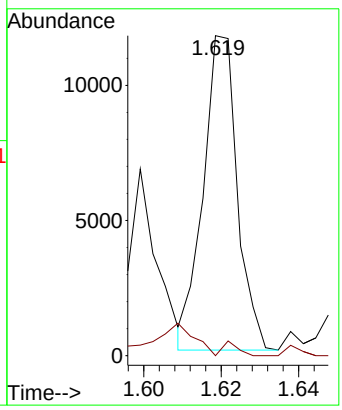


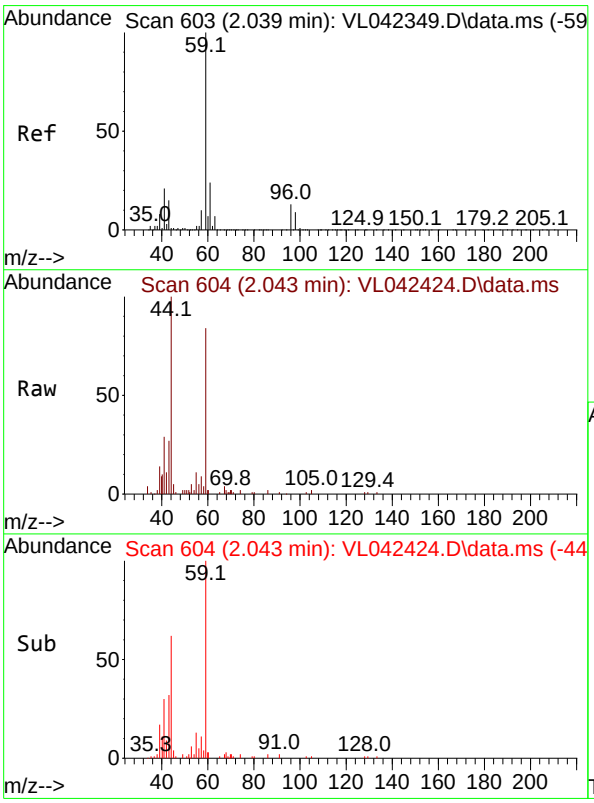

#16
1,3-Butadiene
Concen: 0.674 ppbv
RT: 1.619 min Scan# 4
Delta R.T. 0.010 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025

Tgt Ion: 39 Resp: 7122

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 17.8 | 64.9 | 97.3# |

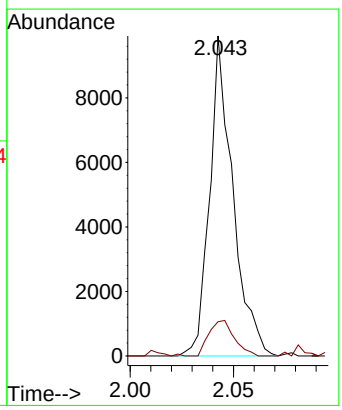


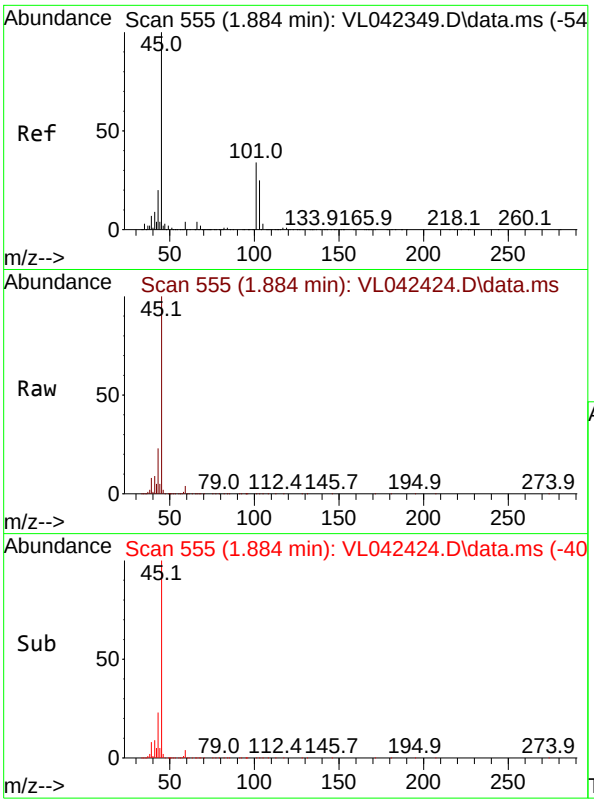




#17
tert-Butyl alcohol
Concen: 0.283 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.003 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

Tgt Ion: 59 Resp: 7751

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 12.1 | 8.7 | 13.1 |



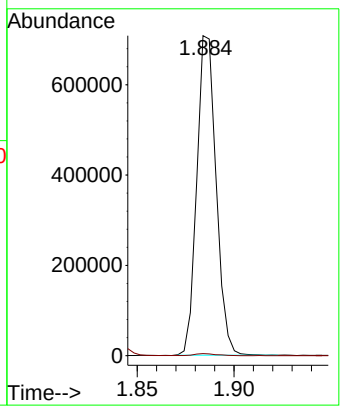


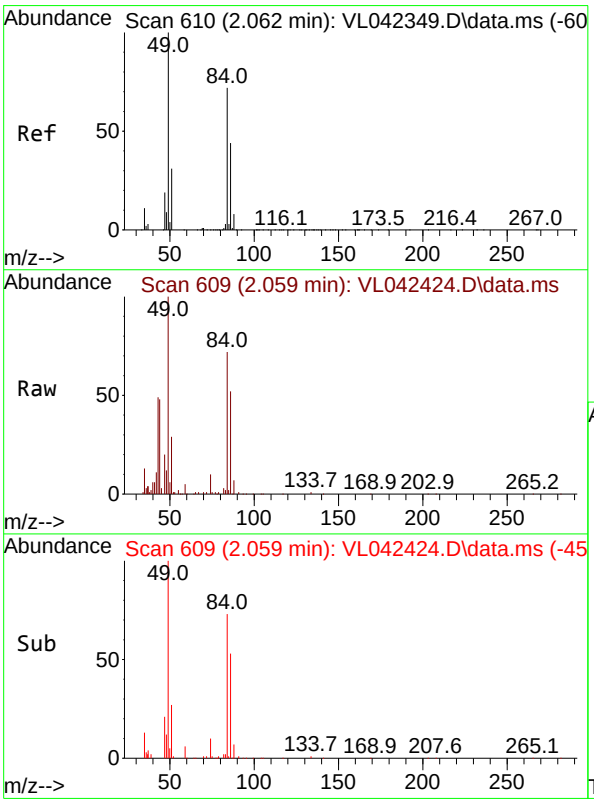

#19
Isopropyl Alcohol
Concen: 39.973 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.000 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025

Tgt Ion: 45 Resp: 490461

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 19.3 | 34.5 | 51.7# |

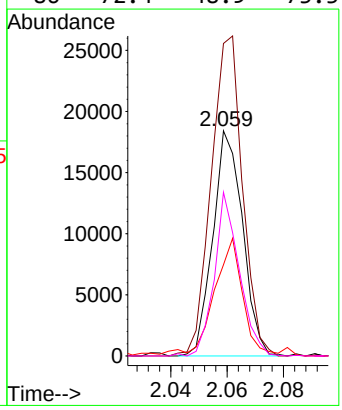


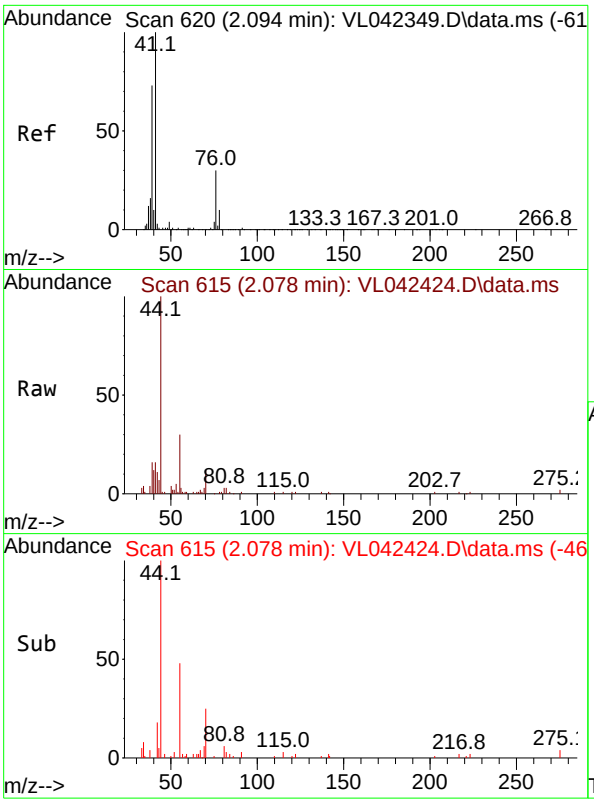




#20
Methylene Chloride
Concen: 1.563 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

Tgt Ion: 84 Resp: 13523

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 138.8 | 111.6 | 167.4 |
| 51 | 39.3 | 35.1 | 52.7 |
| 86 | 72.4 | 48.9 | 73.3 |



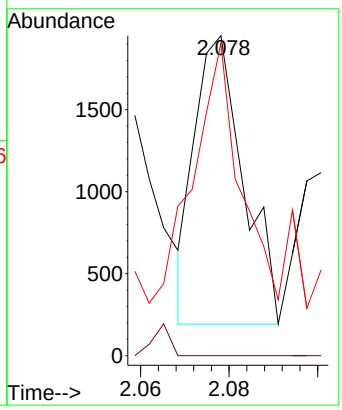


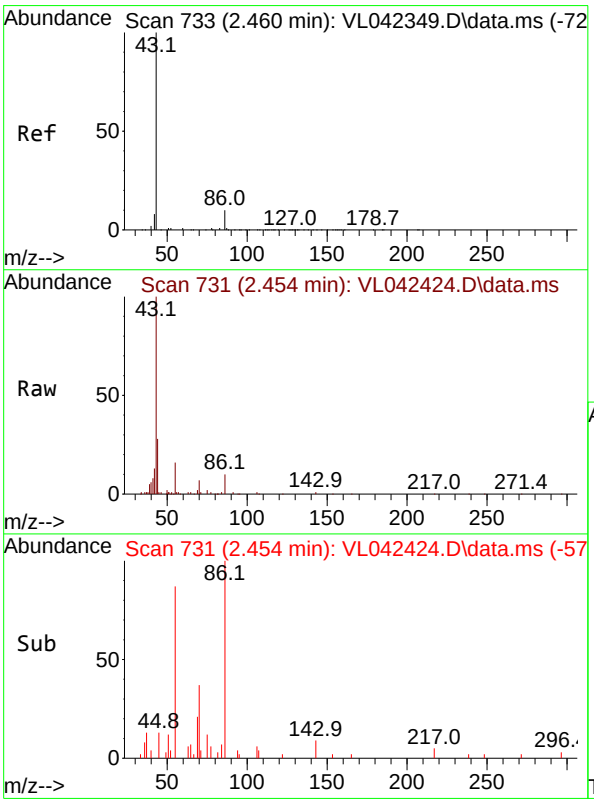

#21
Allyl Chloride
Concen: 0.088 ppbv
RT: 2.078 min Scan# 61
Delta R.T. -0.016 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025

Tgt Ion: 41 Resp: 1344

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 0.0 | 24.8 | 37.2# |
| 39 | 0.0 | 60.6 | 90.8# |

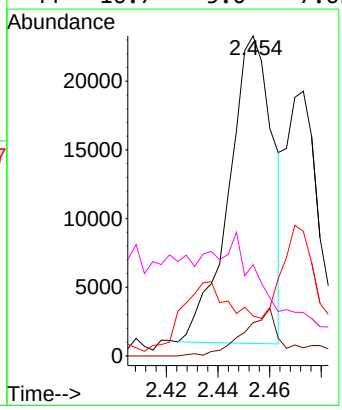


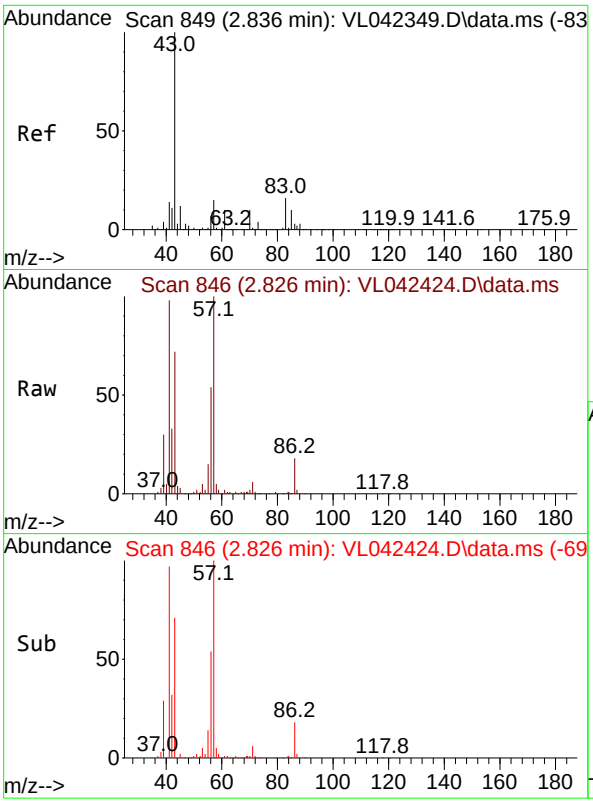




#23
Vinyl Acetate
Concen: 2.959 ppbv
RT: 2.454 min Scan# 731
Delta R.T. -0.006 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

Tgt Ion: 43 Resp: 26458

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.9 | 6.5 | 9.7# |
| 42 | 0.0 | 7.8 | 11.8# |
| 44 | 16.7 | 5.0 | 7.6# |



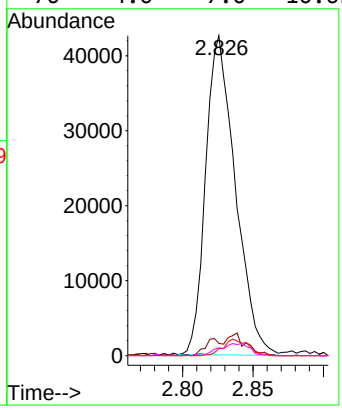


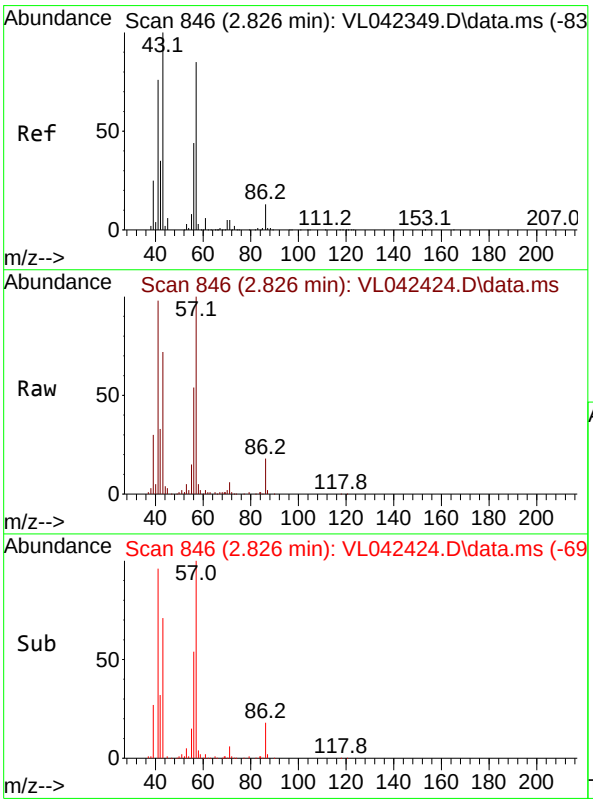

#25
Ethyl Acetate
Concen: 1.146 ppbv
RT: 2.826 min Scan# 84
Delta R.T. -0.010 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025

Tgt Ion: 43 Resp: 62430

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 7.5 | 8.3 | 12.5# |
| 61 | 4.4 | 7.3 | 10.9# |
| 70 | 4.0 | 7.0 | 10.6# |

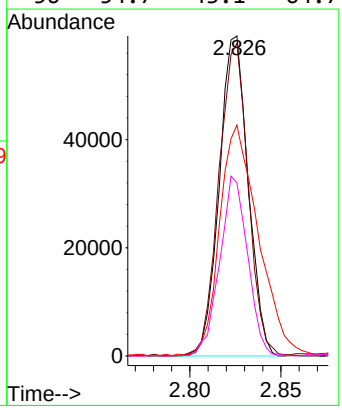


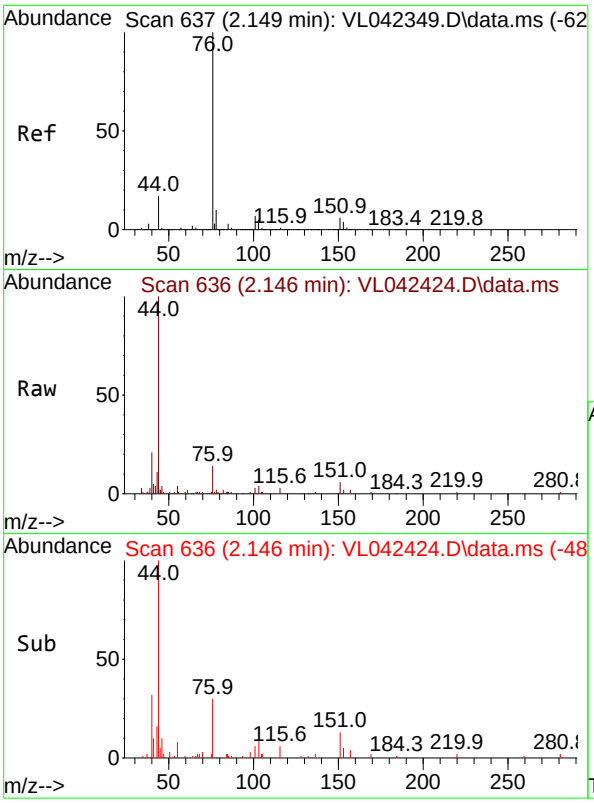




#26
Hexane
Concen: 2.951 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

Tgt Ion: 57 Resp: 65044

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 100.1 | 77.9 | 116.9 |
| 43 | 98.3 | 208.4 | 312.6# |
| 56 | 54.7 | 43.1 | 64.7 |



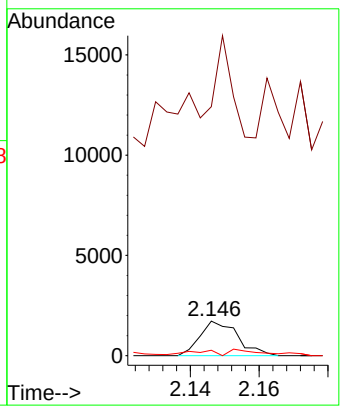


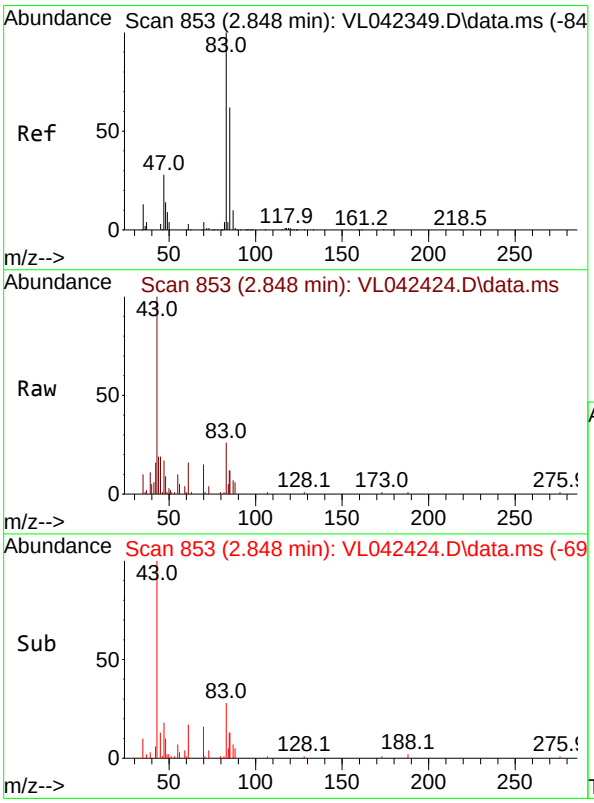

#27
Carbon Disulfide
Concen: 0.056 ppbv
RT: 2.146 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025

Tgt Ion: 76 Resp: 1316

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 702.4 | 15.5 | 23.3# |
| 78 | 41.8 | 9.3 | 13.9# |

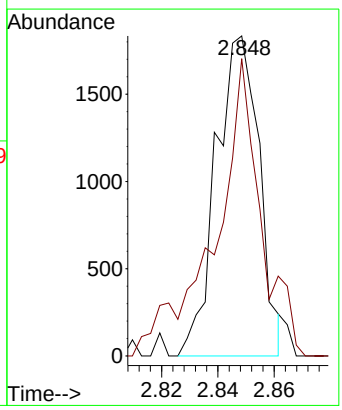


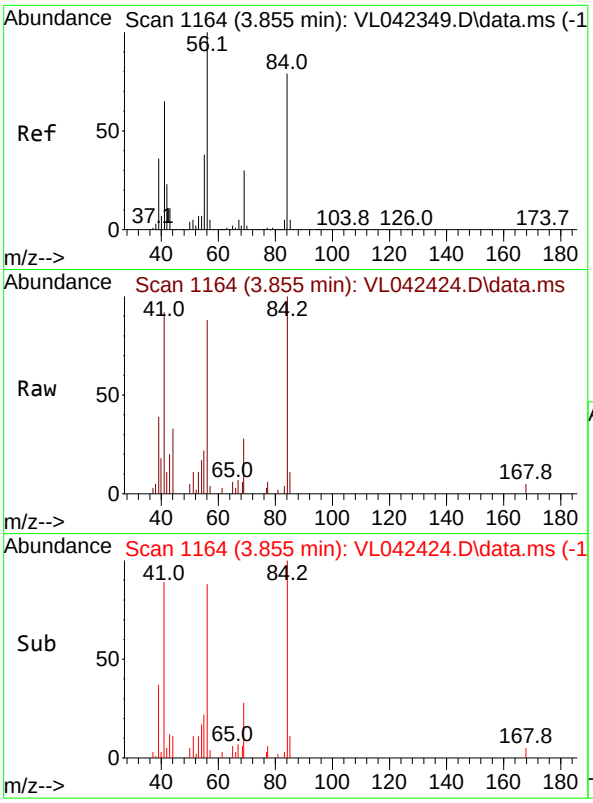




#29
Chloroform
Concen: 0.063 ppbv
RT: 2.848 min Scan# 853
Delta R.T. 0.000 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

Tgt Ion: 83 Resp: 1950

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 81.5 | 50.0 | 75.0# |



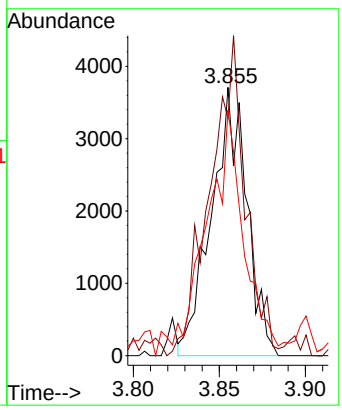


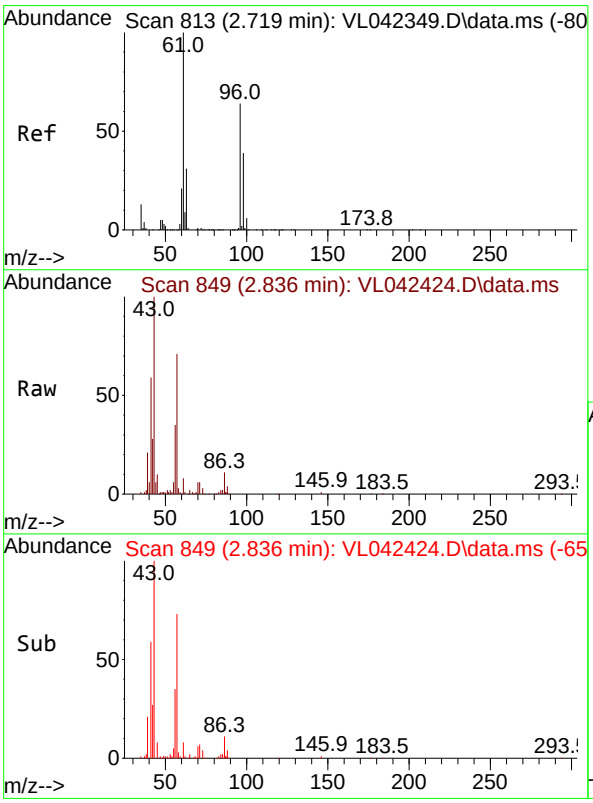

#30
Cyclohexane
Concen: 0.297 ppbv
RT: 3.855 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025

Tgt Ion: 84 Resp: 5289

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 130.1 | 101.0 | 151.4 |
| 41 | 98.5 | 67.4 | 101.0 |

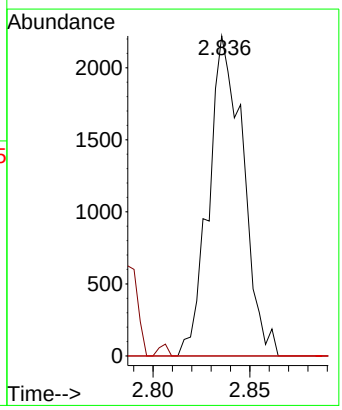


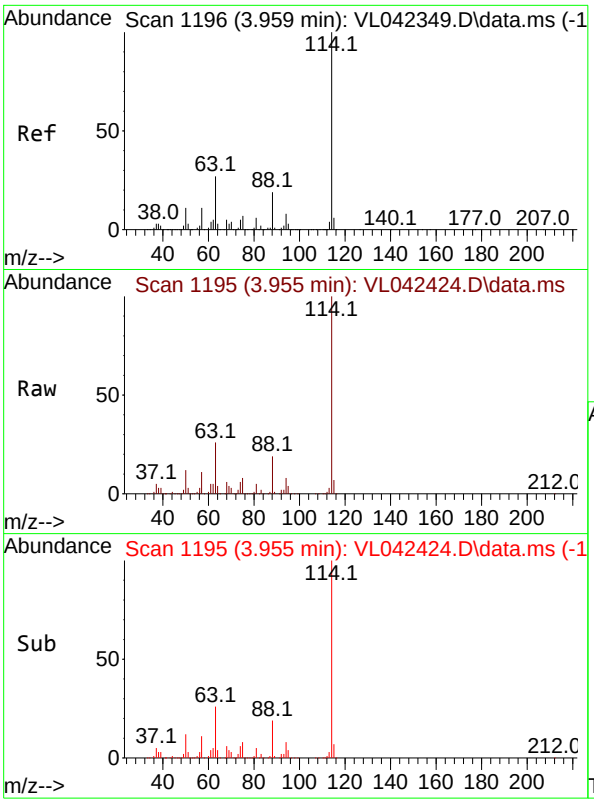




#31
cis-1,2-Dichloroethene
Concen: 0.131 ppbv
RT: 2.836 min Scan# 849
Delta R.T. 0.117 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

Tgt Ion: 61 Resp: 2740

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 0.0 | 50.8 | 76.2# |
| 98 | 0.0 | 30.9 | 46.3# |



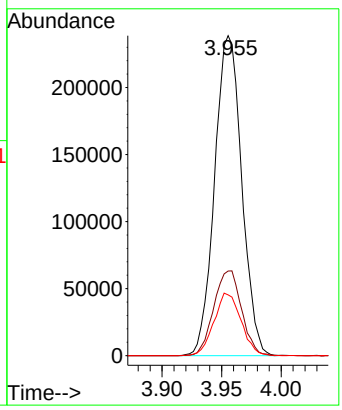


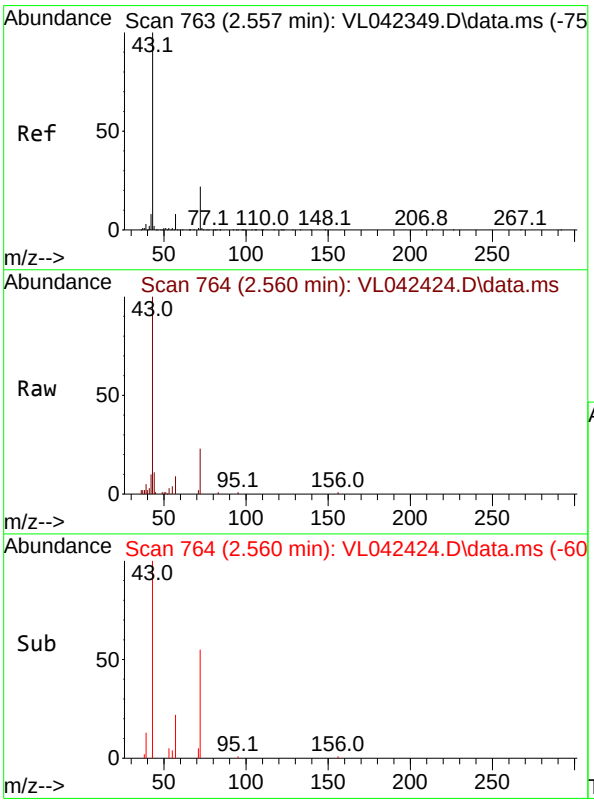

#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025

Tgt Ion:114 Resp: 377834

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 27.2 | 21.8 | 32.6 |
| 88 | 19.5 | 15.5 | 23.3 |

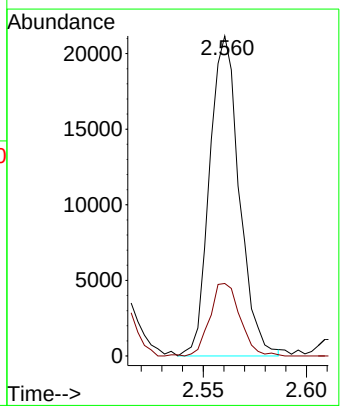


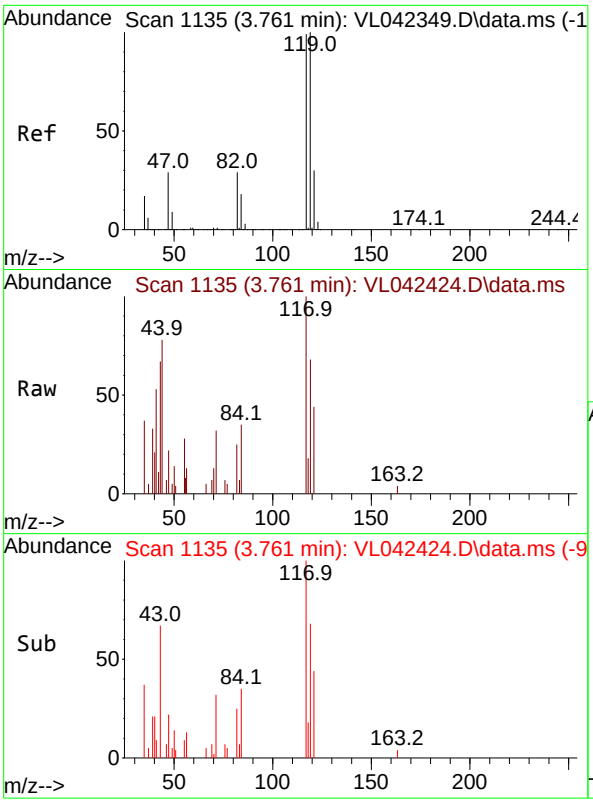




#34
2-Butanone
Concen: 0.709 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

Tgt Ion: 43 Resp: 21181

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 22.9 | 18.2 | 27.2 |



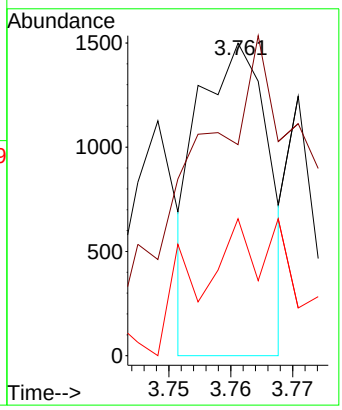


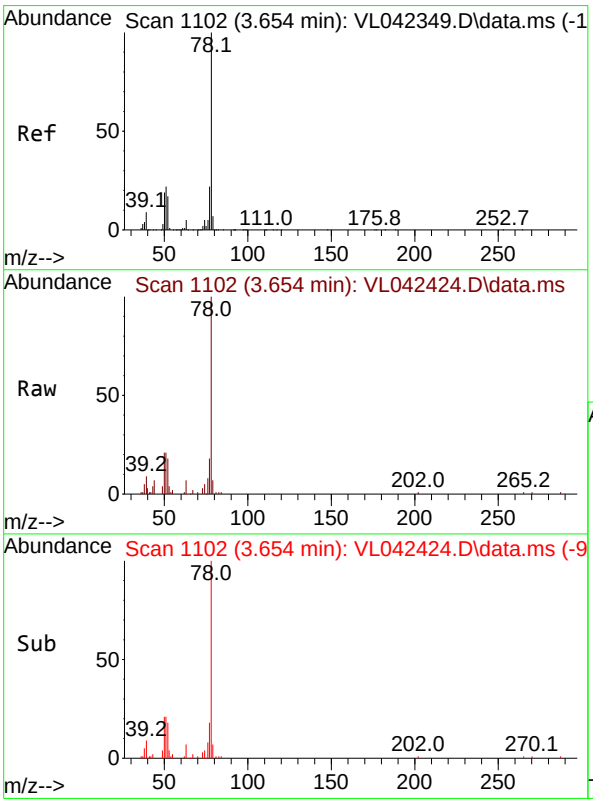

#35
Carbon Tetrachloride
Concen: 0.035 ppbv
RT: 3.761 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025

Tgt Ion:117 Resp: 1182

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 20.4 | 80.5 | 120.7# |
| 121 | 15.2 | 24.2 | 36.2# |

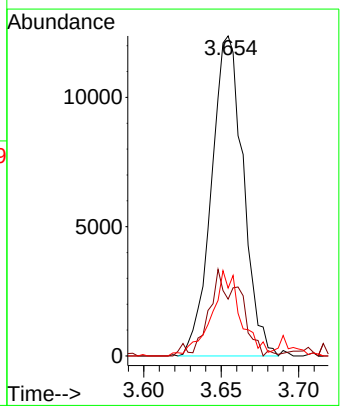


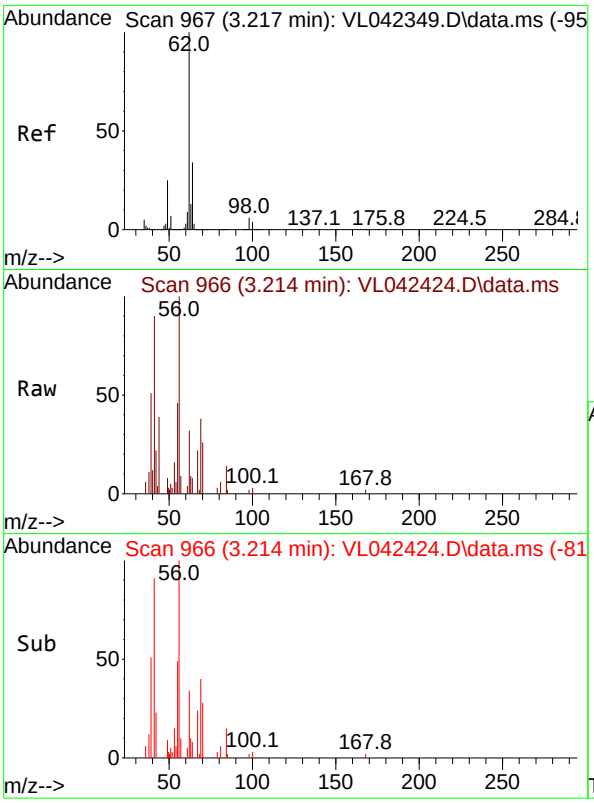




#36
Benzene
Concen: 0.433 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

Tgt Ion: 78 Resp: 17661

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 17.3 | 17.4 | 26.0# |
| 50 | 20.2 | 15.5 | 23.3 |



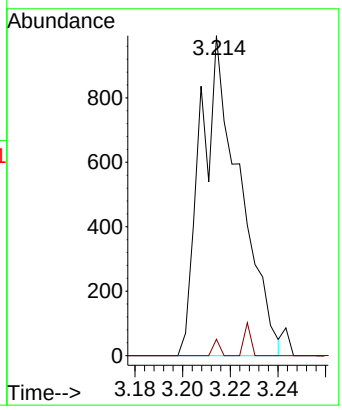


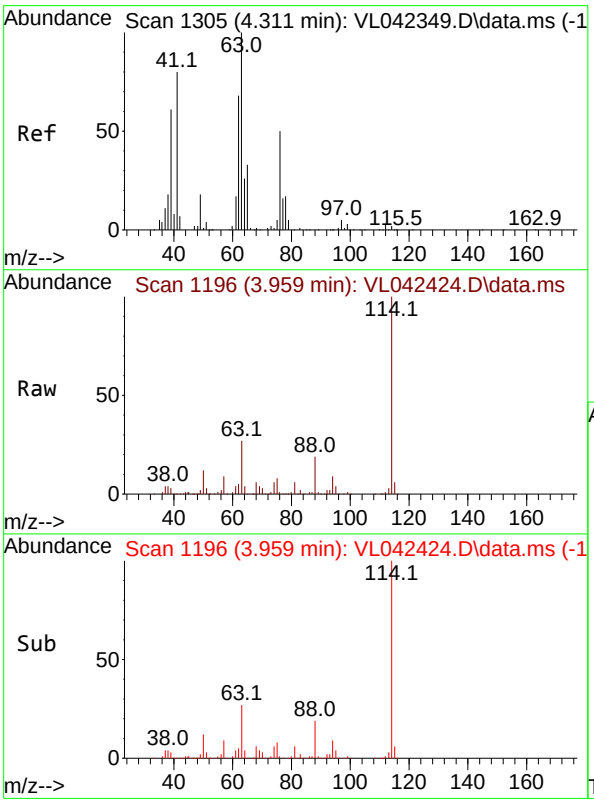

#37
1,2-Dichloroethane
Concen: 0.046 ppbv
RT: 3.214 min Scan# 9
Delta R.T. -0.003 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025

Tgt Ion: 62 Resp: 1133

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 1.1 | 5.1 | 7.7# |

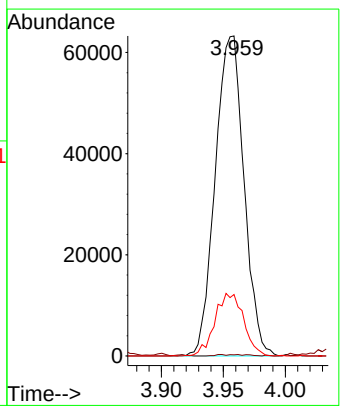


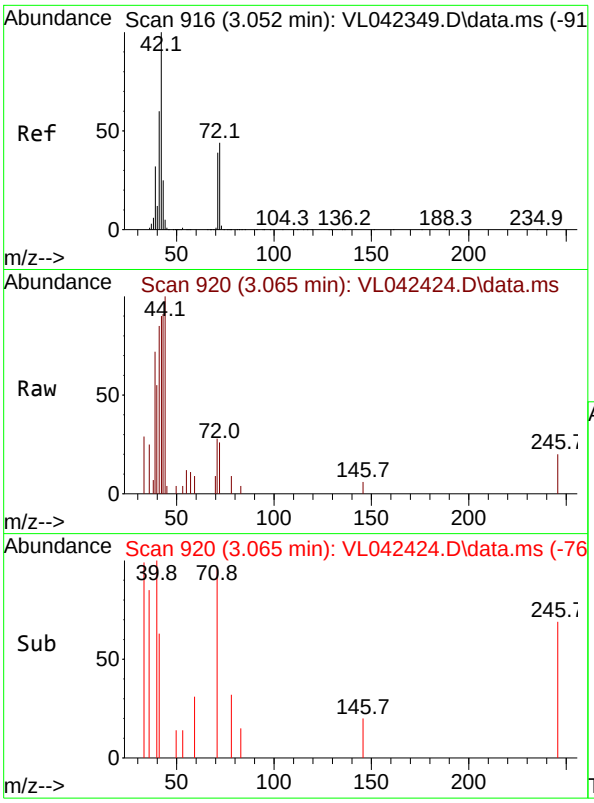




#39
1,2-Dichloropropane
Concen: 6.749 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.353 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

Tgt Ion: 63 Resp: 102487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 0.4 | 64.2 | 96.2# |
| 62 | 19.2 | 54.3 | 81.5# |



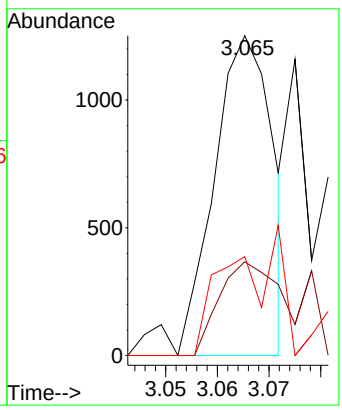


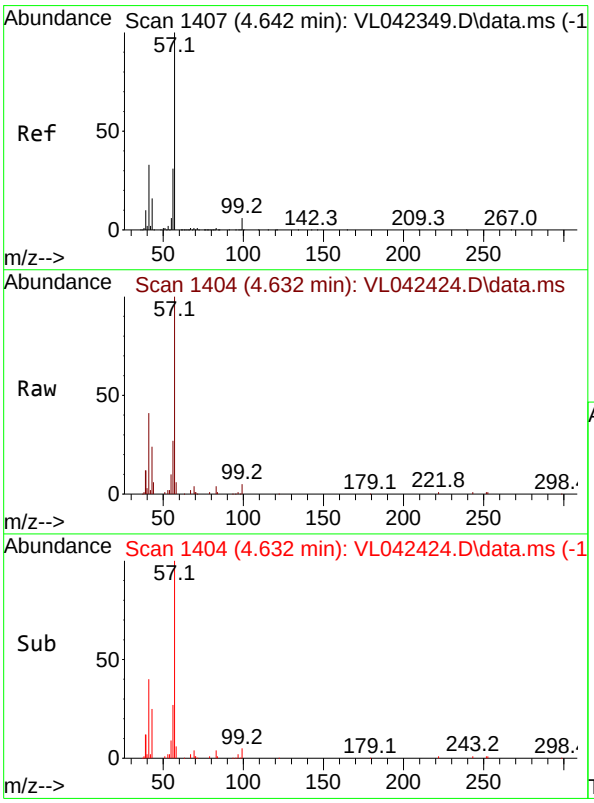

#41
Tetrahydrofuran
Concen: 0.056 ppbv
RT: 3.065 min Scan# 9
Delta R.T. 0.013 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025

Tgt Ion: 42 Resp: 982

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 37.4 | 32.3 | 48.5 |
| 71 | 0.0 | 31.4 | 47.2# |

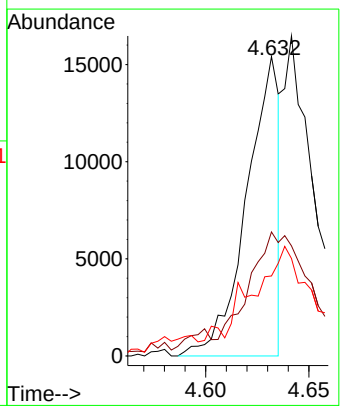


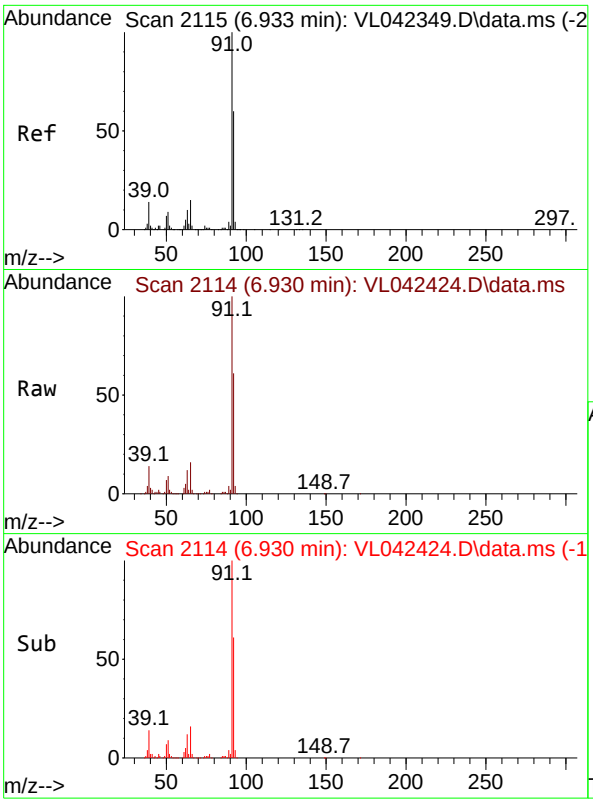




#44
2,2,4-Trimethylpentane
Concen: 0.239 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. -0.010 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

Tgt Ion: 57 Resp: 16799

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 91.8 | 27.2 | 40.8# |
| 56 | 0.0 | 25.7 | 38.5# |



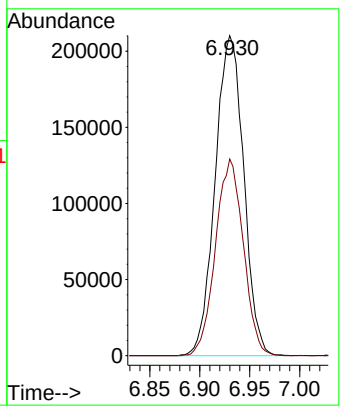


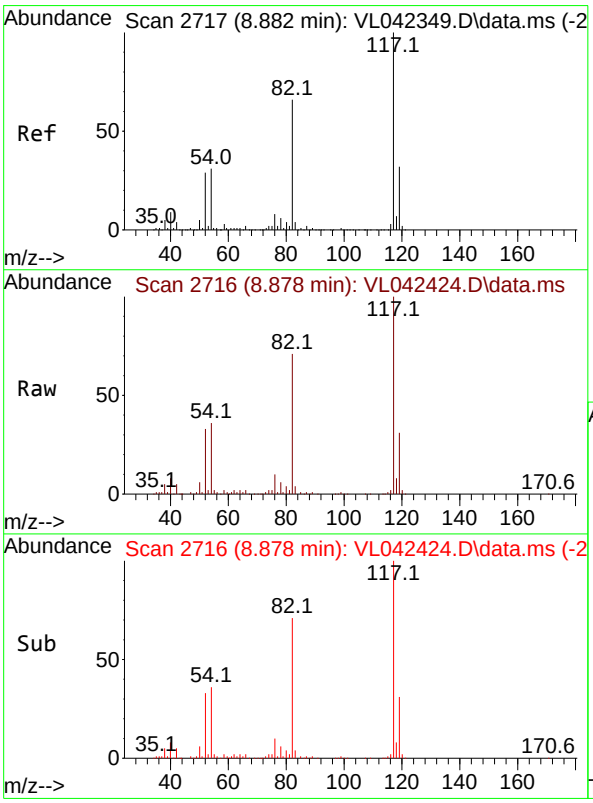

#53
Toluene
Concen: 8.542 ppbv
RT: 6.930 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025

Tgt Ion: 91 Resp: 417734

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 60.0 | 48.2 | 72.4 |

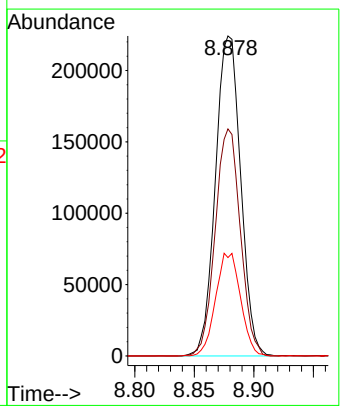


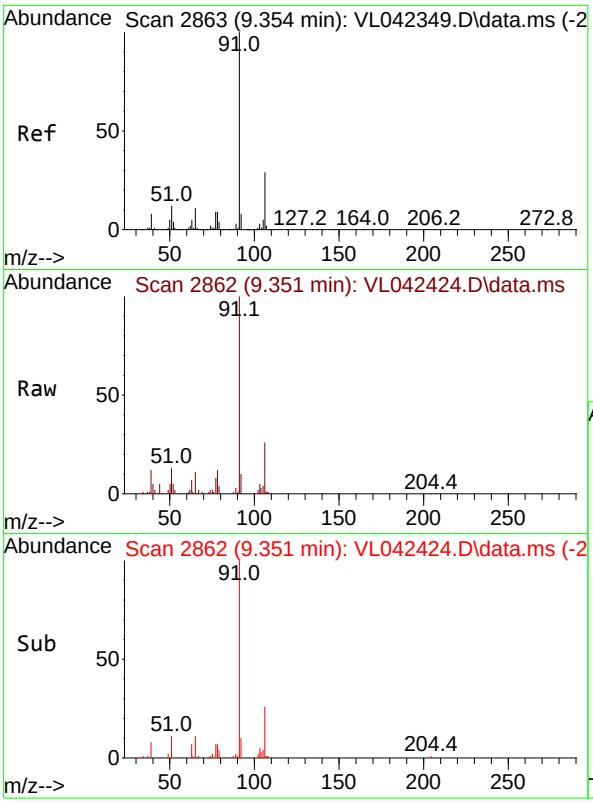




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. -0.003 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

Tgt Ion:117 Resp: 330143

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 70.7 | 57.8 | 86.6 |
| 119 | 31.8 | 25.2 | 37.8 |



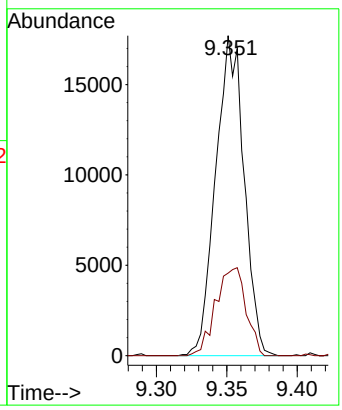


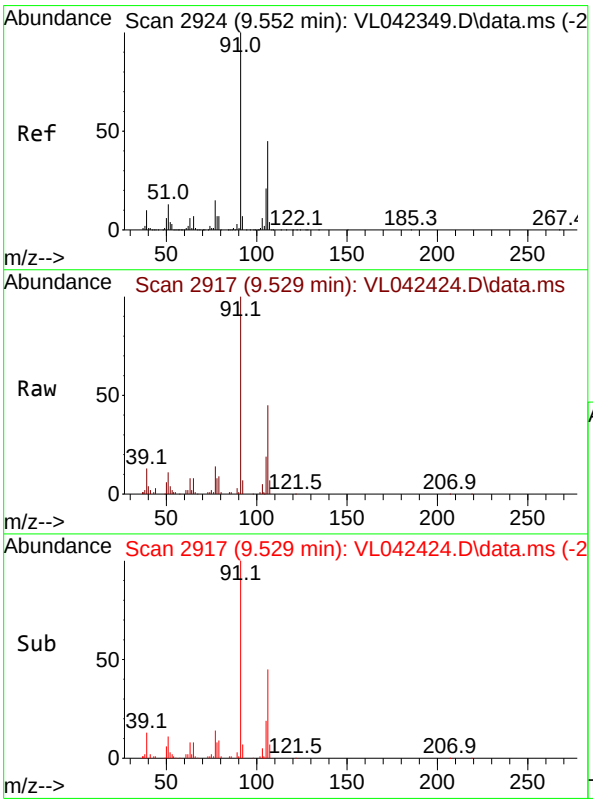

#58
Ethyl Benzene
Concen: 0.379 ppbv
RT: 9.351 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025

Tgt Ion: 91 Resp: 24772

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 25.8 | 23.0 | 34.4 |

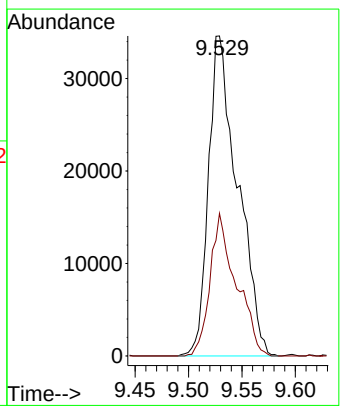


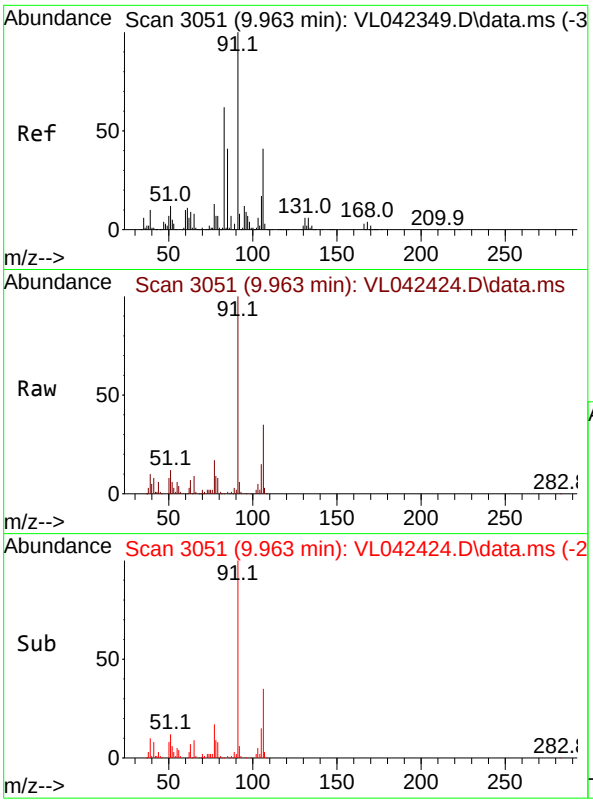




#59
m/p-Xylene
Concen: 1.246 ppbv
RT: 9.529 min Scan# 2917
Delta R.T. -0.023 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

Tgt Ion: 91 Resp: 65650

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 40.1 | 35.4 | 53.2 |



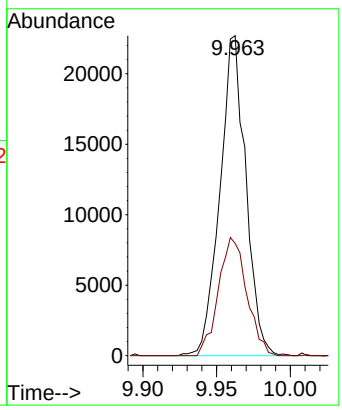


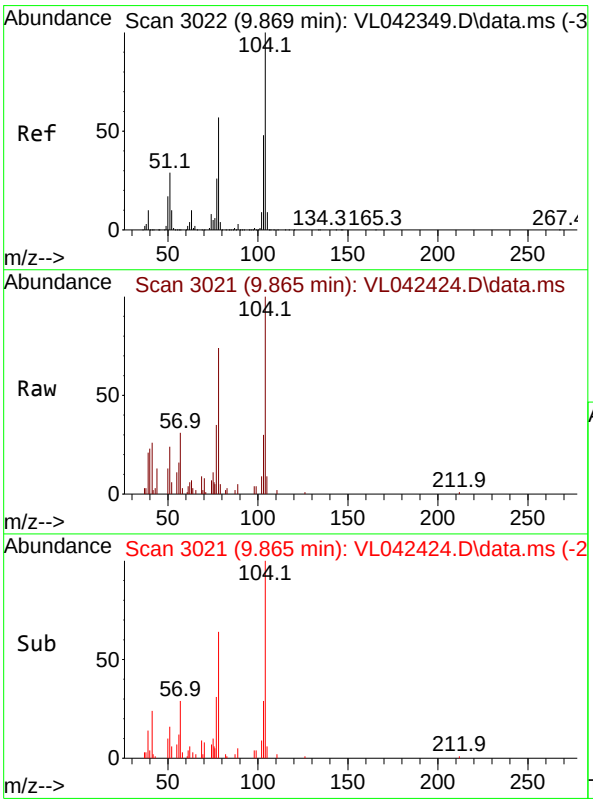

#60
o-Xylene
Concen: 0.522 ppbv
RT: 9.963 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025

Tgt Ion: 91 Resp: 27701

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 40.5 | 21.1 | 63.4 |

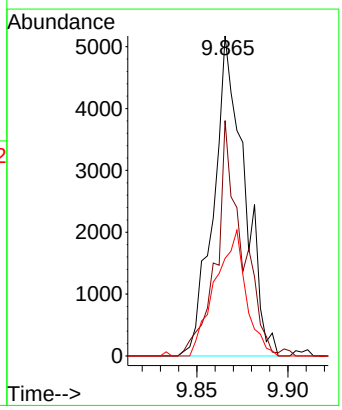


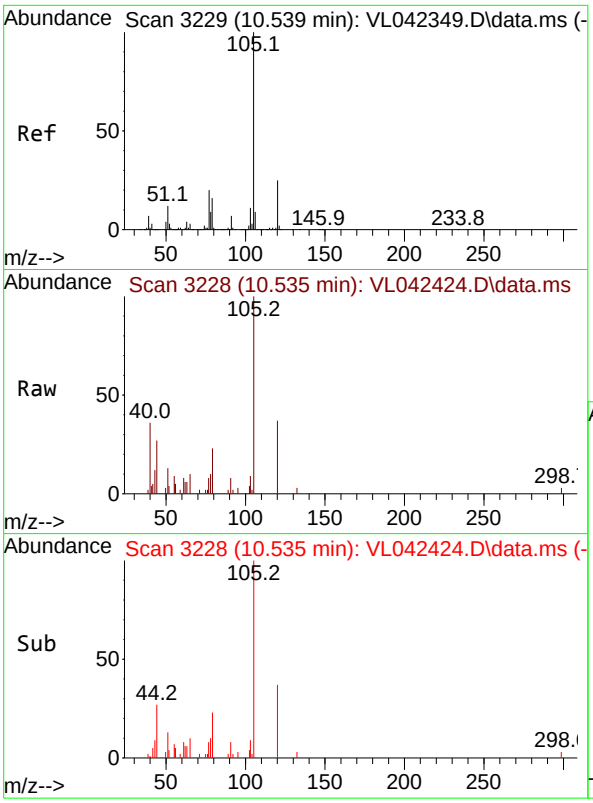




#61
Styrene
Concen: 0.242 ppbv
RT: 9.865 min Scan# 3021
Delta R.T. -0.003 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

Tgt Ion:104 Resp: 6130

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 61.0 | 44.6 | 66.8 |
| 103 | 39.2 | 37.4 | 56.0 |



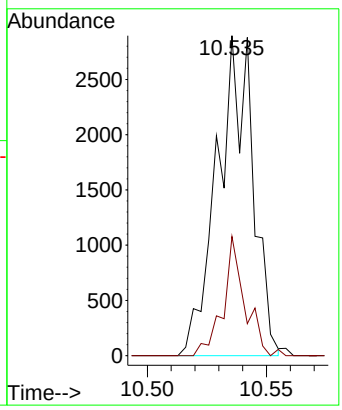


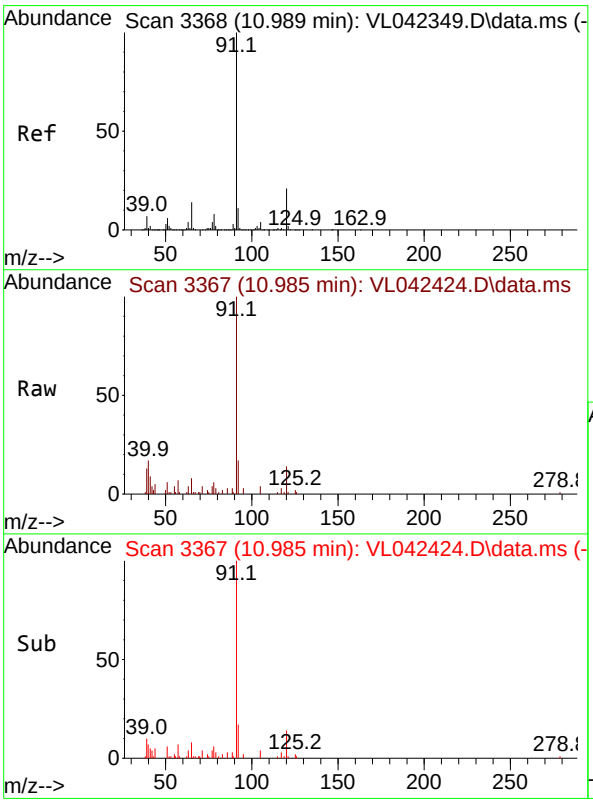

#62
Isopropylbenzene
Concen: 0.039 ppbv
RT: 10.535 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025

Tgt Ion:105 Resp: 3004

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 22.8 | 19.8 | 29.8 |

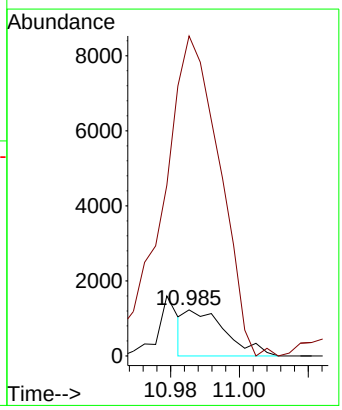


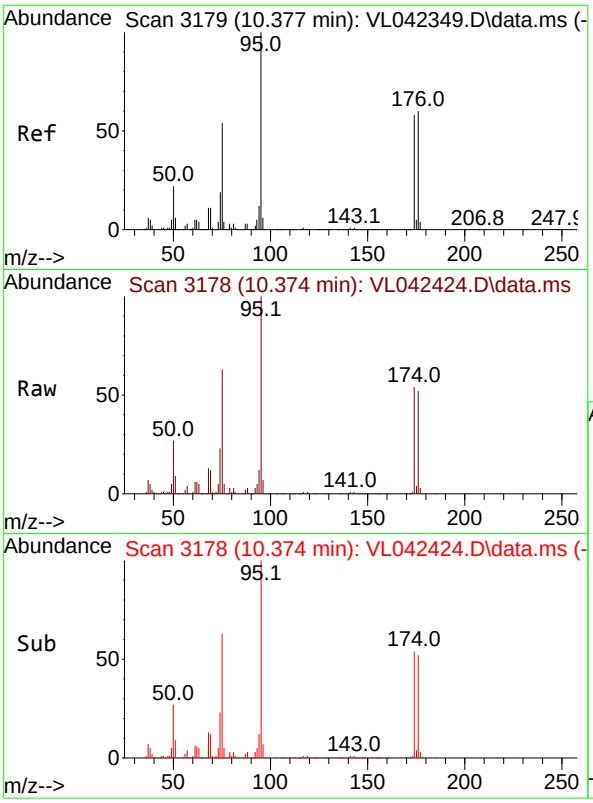




#64
n-propylbenzene
Concen: 0.052 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.003 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

Tgt Ion:120 Resp: 1011

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 1017.2 | 392.4 | 588.6# |



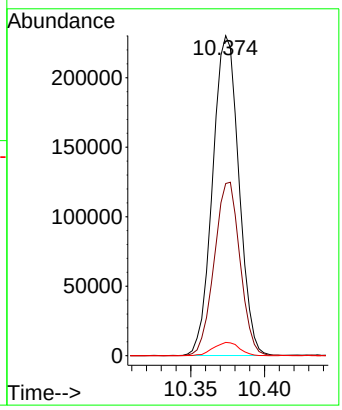


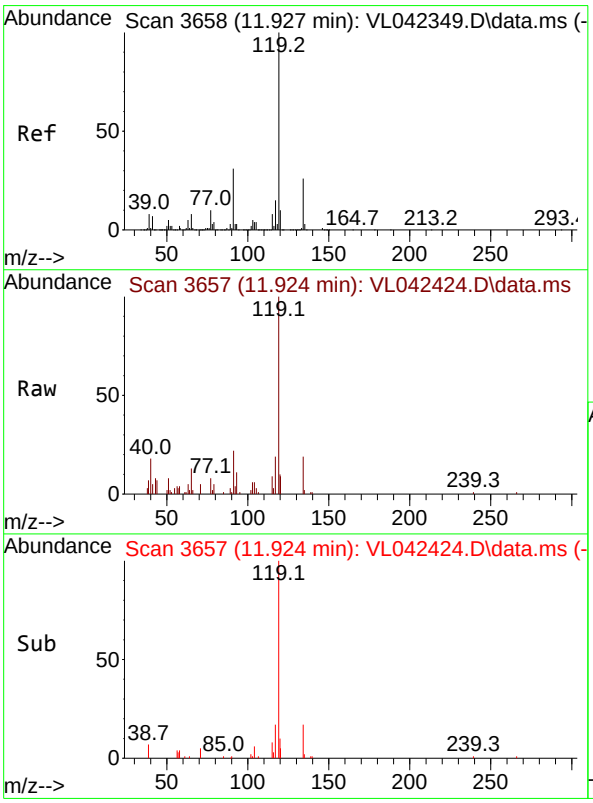

#68
1-Bromo-4-Fluorobenzene
Concen: 10.483 ppbv
RT: 10.374 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025

Tgt Ion: 95 Resp: 284407

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 53.4 | 48.5 | 72.7 |
| 175 | 4.1 | 3.7 | 5.5 |

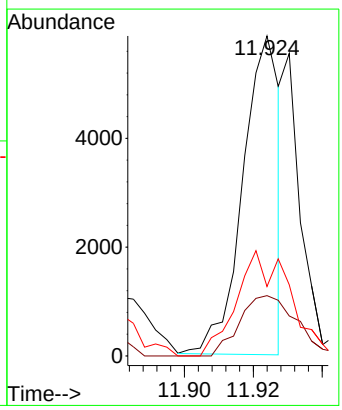


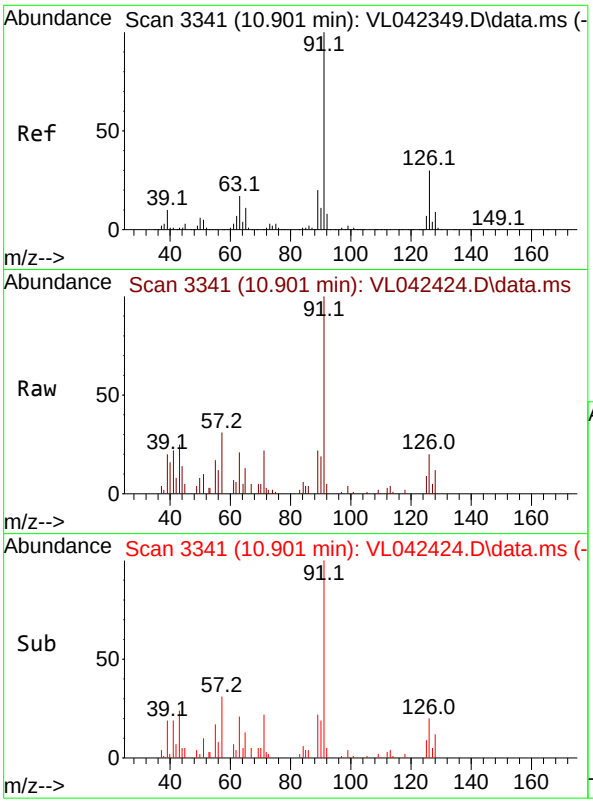




#69
p-Isopropyltoluene
Concen: 0.050 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.003 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

Tgt Ion:119 Resp: 4355

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 29.1 | 20.0 | 30.0 |
| 91 | 50.5 | 24.4 | 36.6# |



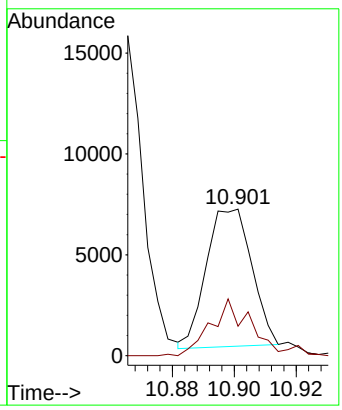


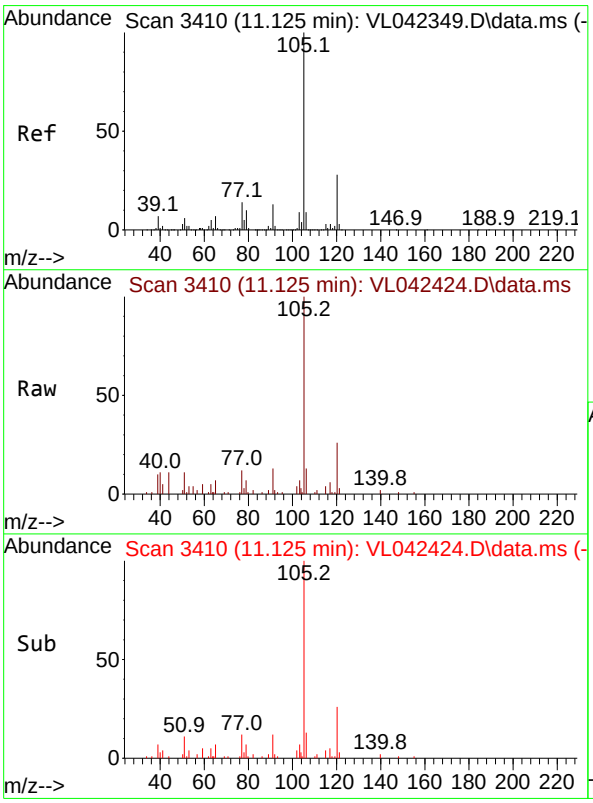

#71
2-Chlorotoluene
Concen: 0.114 ppbv
RT: 10.901 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025

Tgt Ion: 91 Resp: 6948

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 37.9 | 11.4 | 45.4 |

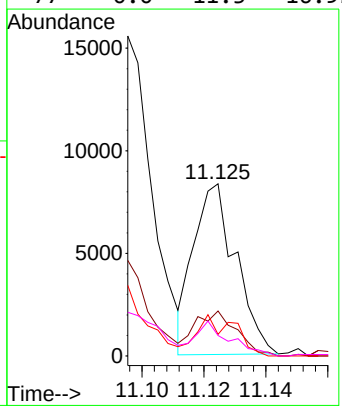


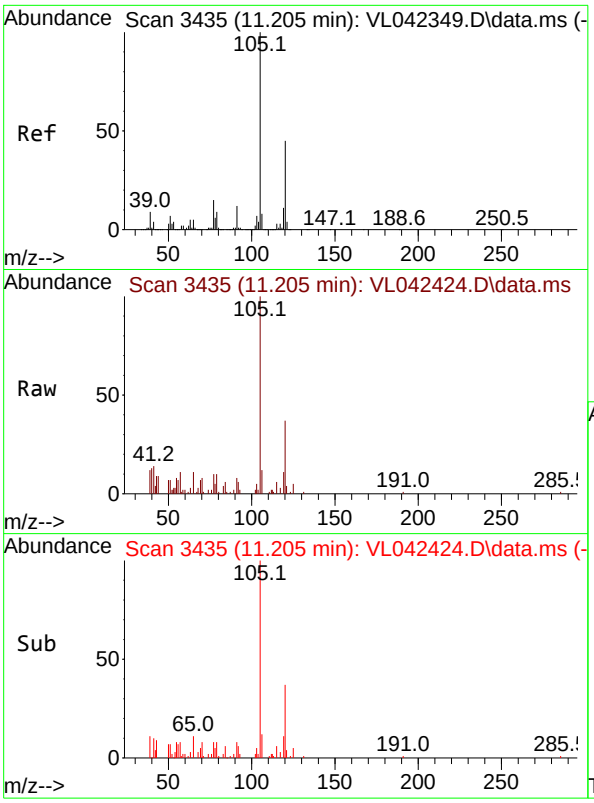




#72
4-Ethyltoluene
Concen: 0.121 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

Tgt Ion:105 Resp: 7865

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 0.0 | 23.2 | 34.8# |
| 91 | 0.0 | 10.4 | 15.6# |
| 77 | 0.0 | 11.3 | 16.9# |



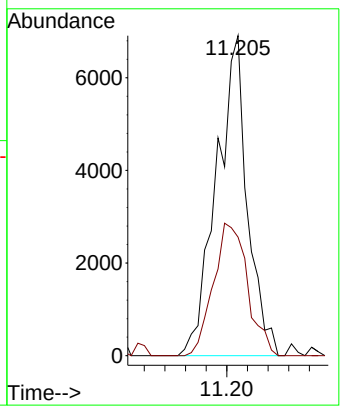


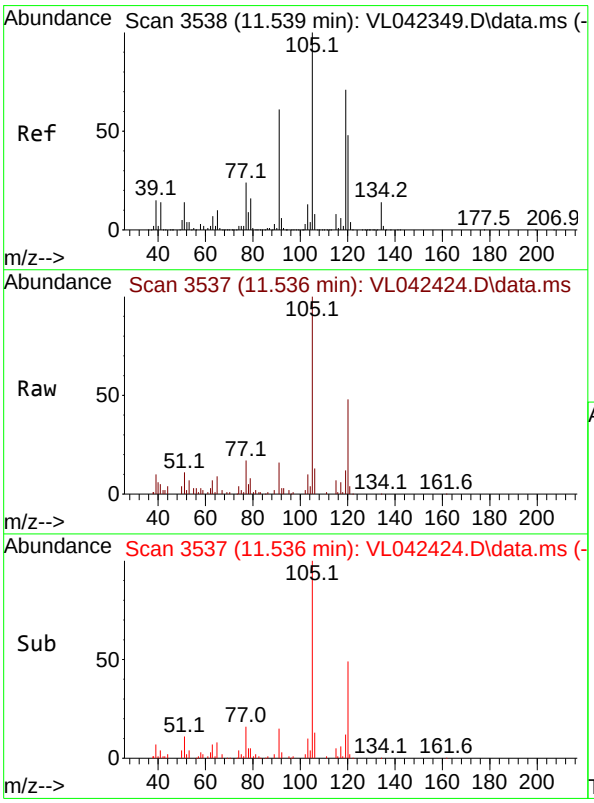

#73
1,3,5-Trimethylbenzene
Concen: 0.125 ppbv
RT: 11.205 min Scan# 34
Delta R.T. 0.000 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025

Tgt Ion:105 Resp: 7185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 41.4 | 35.6 | 53.4 |

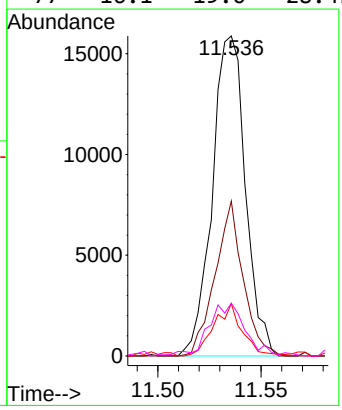



#74
1,2,4-Trimethylbenzene
Concen: 0.265 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.003 min
Lab File: VL042424.D
Acq: 28 Apr 2025 14:00

Tgt Ion:105 Resp: 17740

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 52.3 | 38.1 | 57.1 |
| 91 | 16.4 | 48.8 | 73.2# |
| 77 | 16.1 | 19.0 | 28.4# |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042425.D
Acq On : 28 Apr 2025 14:34
Operator : SY/MD
Sample : Q1665-22
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-4-3242025

Quant Time: Apr 29 01:37:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.784 | 49 | 133015 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.955 | 114 | 381932 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.878 | 117 | 330693 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.374 | 95 | 282648 | 10.401 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 104.000% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.499 | 85 | 11713 | 0.498 | ppbv # | 86 |
| 3) Chlorodifluoromethane | 1.476 | 51 | 13184 | 0.589 | ppbv # | 84 |
| 4) Chloromethane | 1.531 | 50 | 5550 | 0.597 | ppbv | 99 |
| 9) Propene | 1.486 | 41 | 12230 | 1.200 | ppbv | 85 |
| 10) Heptane | 4.975 | 43 | 11187 | 0.391 | ppbv # | 61 |
| 11) Trichlorofluoromethane | 1.877 | 101 | 5207 | 0.233 | ppbv | 98 |
| 12) 1,1,2-Trichlorotrifluo... | 2.136 | 101 | 1409 | 0.077 | ppbv | 95 |
| 13) Ethanol | 1.719 | 45 | 406613 | 251.014 | ppbv | 76 |
| 15) Acetone | 1.835 | 43 | 324431 | 14.899 | ppbv | 94 |
| 16) 1,3-Butadiene | 1.599 | 39 | 4434 | 0.426 | ppbv # | 59 |
| 17) tert-Butyl alcohol | 1.884 | 59 | 13126 | 0.486 | ppbv | 99 |
| 19) Isopropyl Alcohol | 1.884 | 45 | 341849 | 28.261 | ppbv # | 34 |
| 20) Methylene Chloride | 2.059 | 84 | 5072 | 0.595 | ppbv | 87 |
| 21) Allyl Chloride | 2.078 | 41 | 1511 | 0.101 | ppbv # | 50 |
| 23) Vinyl Acetate | 2.450 | 43 | 2880 | 0.327 | ppbv # | 87 |
| 25) Ethyl Acetate | 2.823 | 43 | 44445 | 0.828 | ppbv # | 86 |
| 26) Hexane | 2.823 | 57 | 57941 | 2.667 | ppbv # | 36 |
| 30) Cyclohexane | 3.849 | 84 | 2059 | 0.117 | ppbv # | 1 |
| 34) 2-Butanone | 2.560 | 43 | 15646 | 0.518 | ppbv | 97 |
| 35) Carbon Tetrachloride | 3.758 | 117 | 1464 | 0.042 | ppbv # | 81 |
| 36) Benzene | 3.654 | 78 | 23147 | 0.562 | ppbv | 95 |
| 37) 1,2-Dichloroethane | 3.214 | 62 | 1080 | 0.044 | ppbv # | 81 |
| 39) 1,2-Dichloropropane | 3.952 | 63 | 107133 | 6.979 | ppbv # | 22 |
| 41) Tetrahydrofuran | 3.065 | 42 | 602 | 0.034 | ppbv | 89 |
| 44) 2,2,4-Trimethylpentane | 4.638 | 57 | 84397 | 1.186 | ppbv # | 91 |
| 53) Toluene | 6.933 | 91 | 232100 | 4.695 | ppbv | 99 |
| 58) Ethyl Benzene | 9.354 | 91 | 33267 | 0.508 | ppbv | 98 |
| 59) m/p-Xylene | 9.529 | 91 | 92347 | 1.750 | ppbv | 100 |
| 60) o-Xylene | 9.959 | 91 | 36544 | 0.688 | ppbv | 97 |
| 61) Styrene | 9.869 | 104 | 3587 | 0.141 | ppbv | 91 |
| 62) Isopropylbenzene | 10.529 | 105 | 3313 | 0.042 | ppbv | 94 |
| 64) n-propylbenzene | 10.985 | 120 | 2357 | 0.120 | ppbv | 86 |
| 69) p-Isopropyltoluene | 11.927 | 119 | 3573 | 0.041 | ppbv | 92 |
| 71) 2-Chlorotoluene | 10.901 | 91 | 4240 | 0.069 | ppbv | 91 |
| 72) 4-Ethyltoluene | 11.118 | 105 | 11801 | 0.182 | ppbv # | 56 |
| 73) 1,3,5-Trimethylbenzene | 11.202 | 105 | 10642 | 0.186 | ppbv | 88 |
| 74) 1,2,4-Trimethylbenzene | 11.536 | 105 | 34307 | 0.512 | ppbv # | 67 |
| 79) Naphthalene | 13.510 | 128 | 2447 | 0.031 | ppbv | 98 |

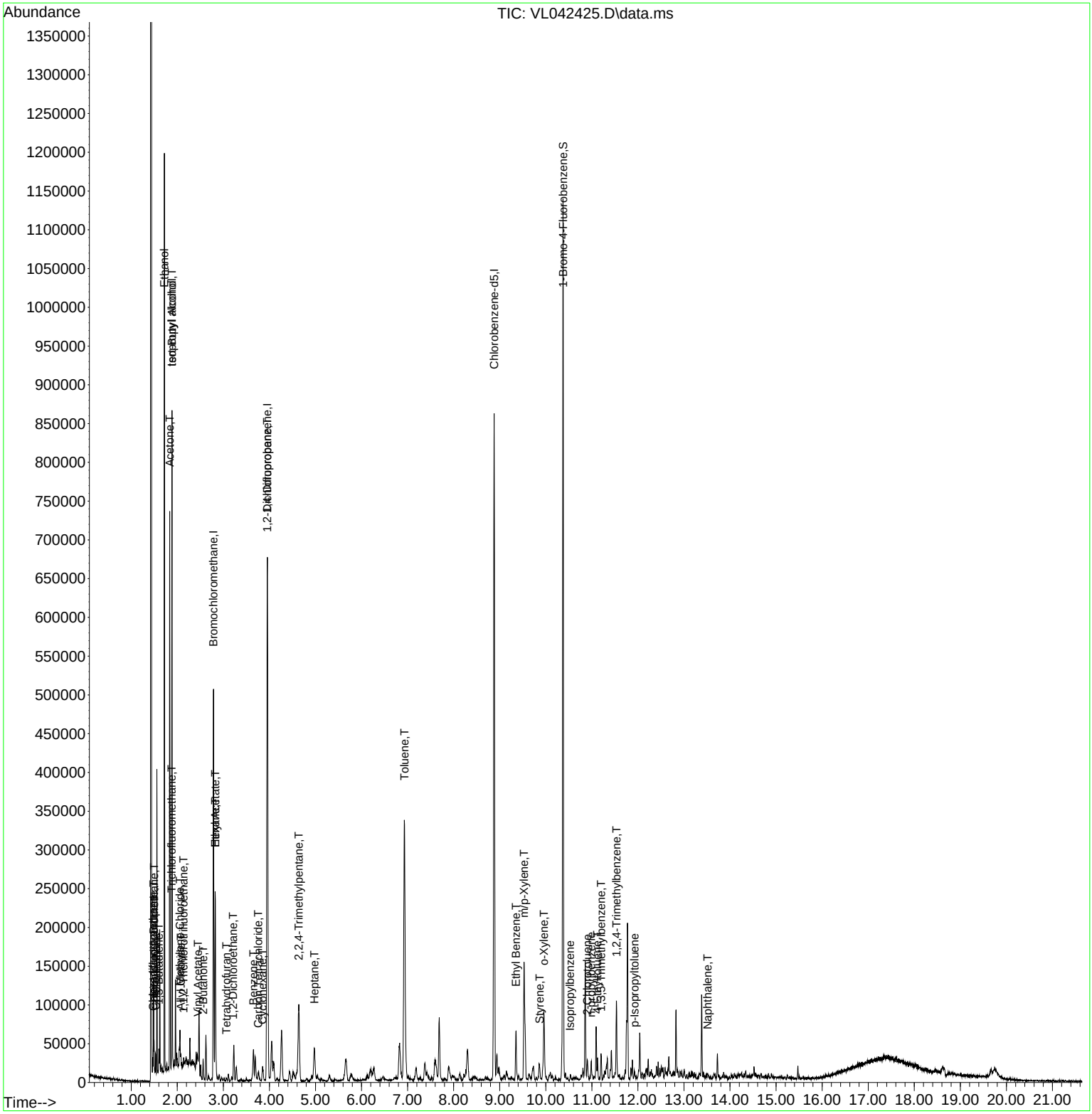
(#) = qualifier out of range (m) = manual integration (+) = signals summed

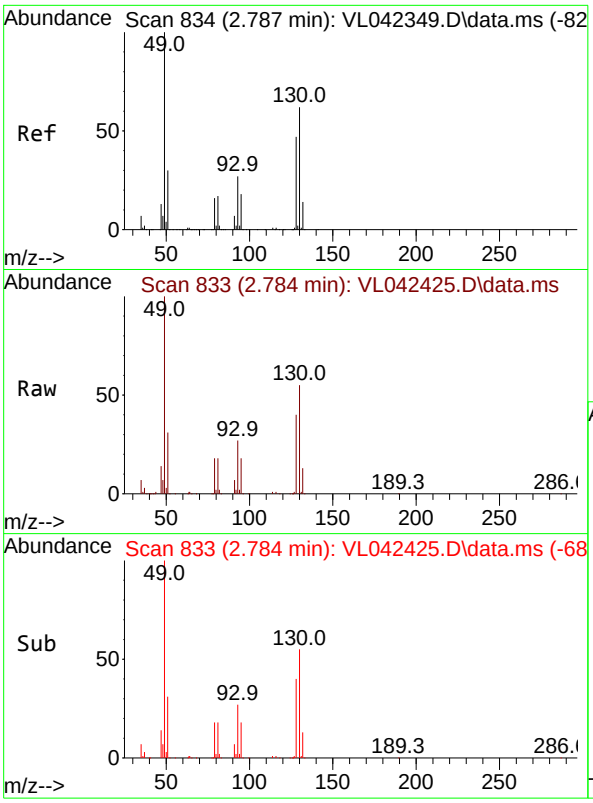
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042425.D
Acq On : 28 Apr 2025 14:34
Operator : SY/MD
Sample : Q1665-22
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-4-3242025

Quant Time: Apr 29 01:37:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration



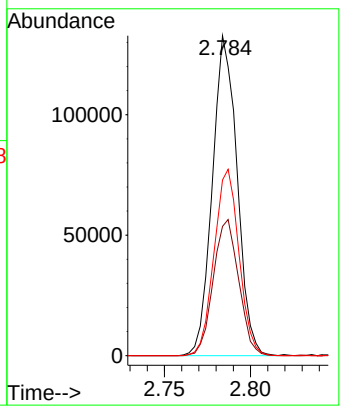


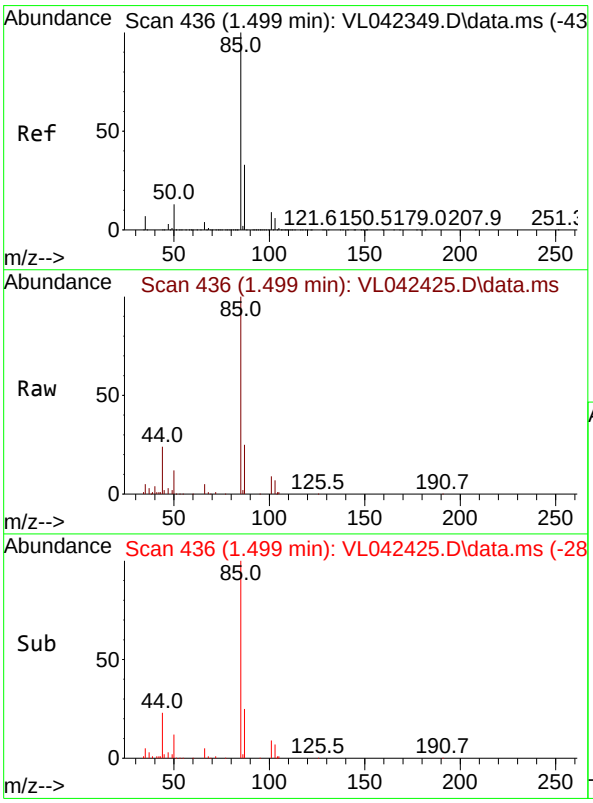

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-4-3242025

Tgt Ion: 49 Resp: 133015

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 43.7 | 22.8 | 68.4 |
| 130 | 58.6 | 29.3 | 88.0 |

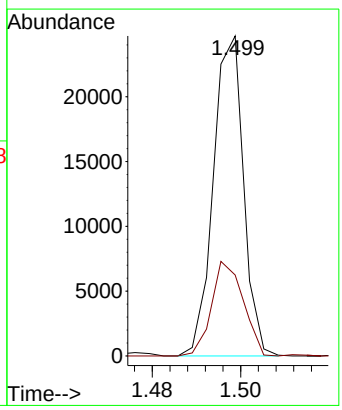


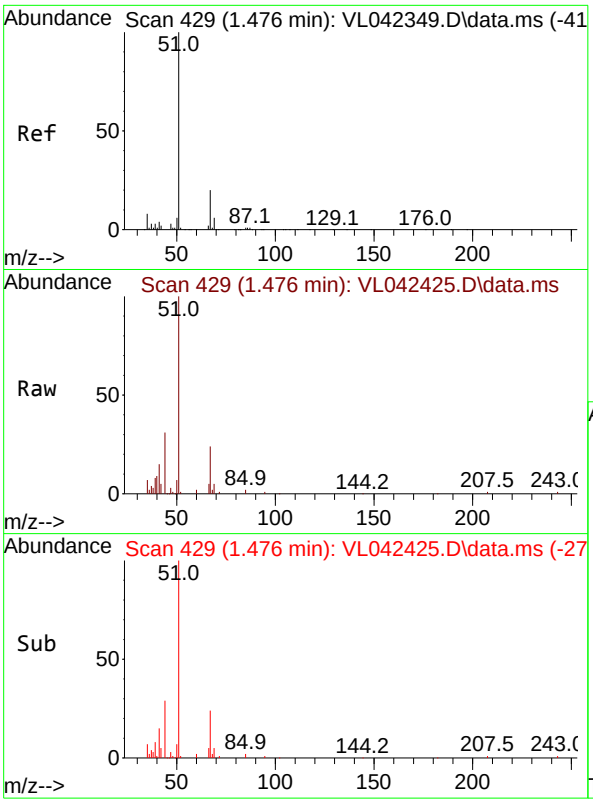




#2
Dichlorodifluoromethane
Concen: 0.498 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Tgt Ion: 85 Resp: 11713

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 25.3 | 26.6 | 39.8# |



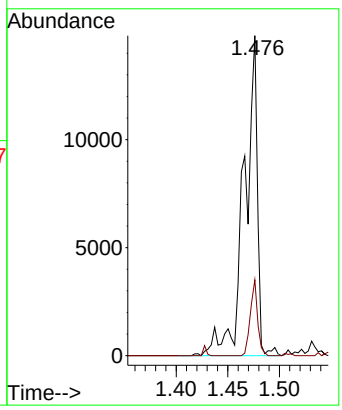


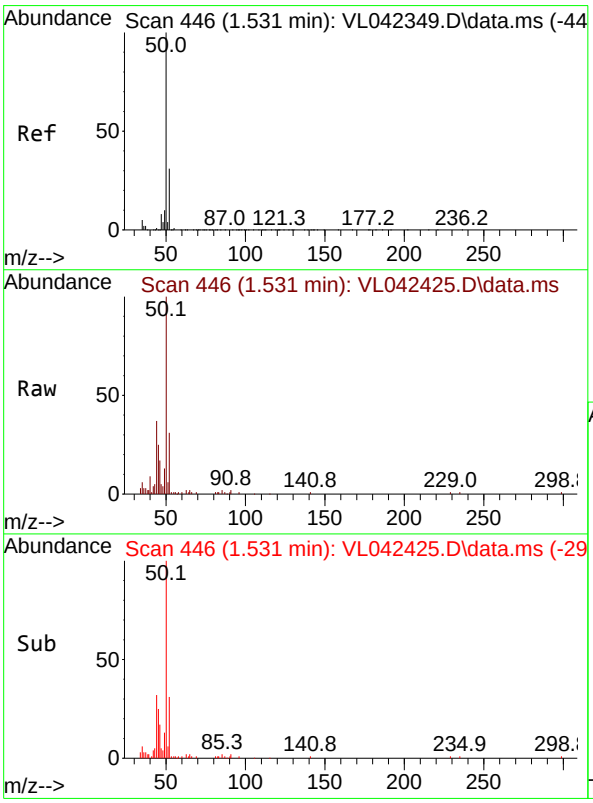

#3
Chlorodifluoromethane
Concen: 0.589 ppbv
RT: 1.476 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-4-3242025

Tgt Ion: 51 Resp: 13184

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 13.1 | 16.2 | 24.4# |

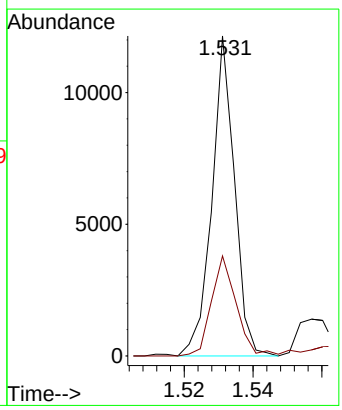


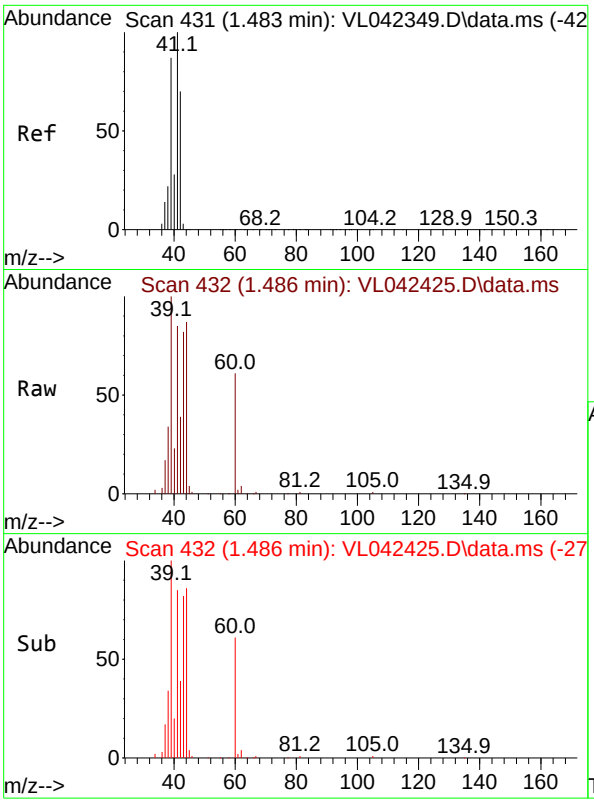




#4
Chloromethane
Concen: 0.597 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Tgt Ion: 50 Resp: 5550

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 31.2 | 24.7 | 37.1 |



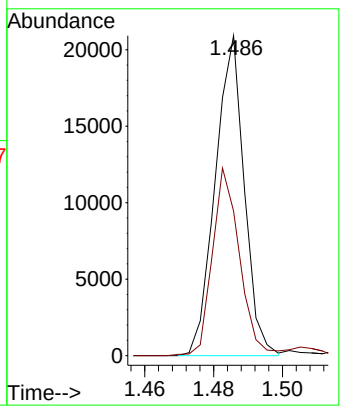


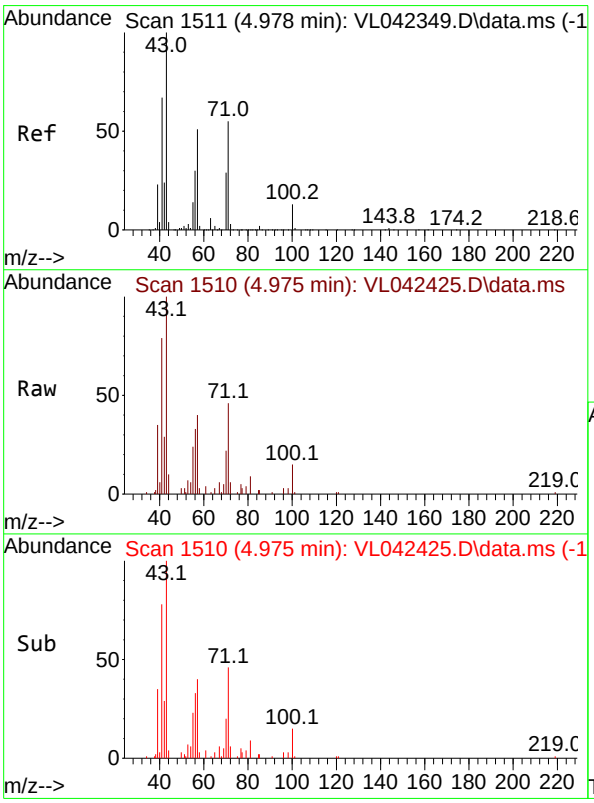

#9
Propene
Concen: 1.200 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-4-3242025

Tgt Ion: 41 Resp: 12230

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 57.6 | 56.2 | 84.4 |

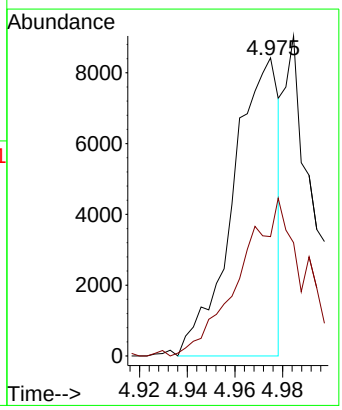


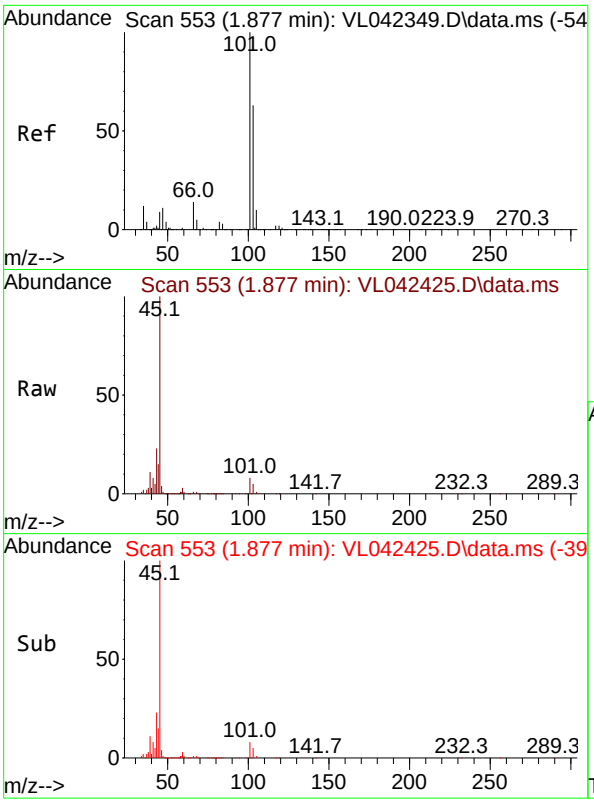




#10
Heptane
Concen: 0.391 ppbv
RT: 4.975 min Scan# 1510
Delta R.T. -0.003 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Tgt Ion: 43 Resp: 11187

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 76.6 | 39.9 | 59.9# |



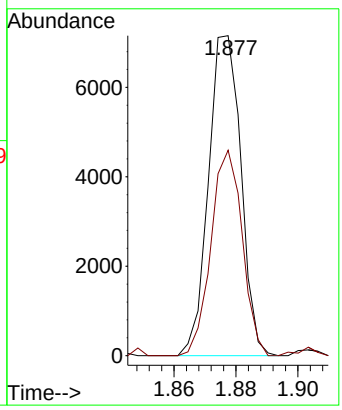


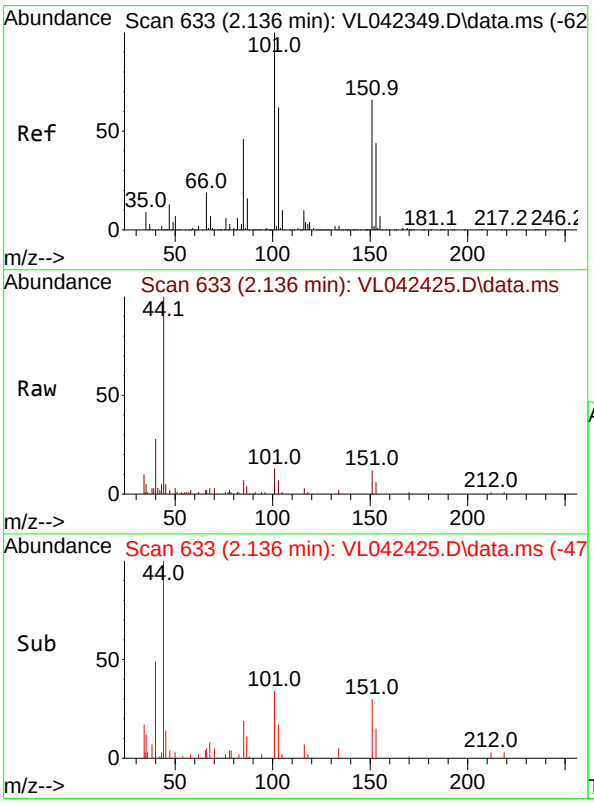

#11
Trichlorofluoromethane
Concen: 0.233 ppbv
RT: 1.877 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-4-3242025

Tgt Ion:101 Resp: 5207

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.2 | 50.1 | 75.1 |

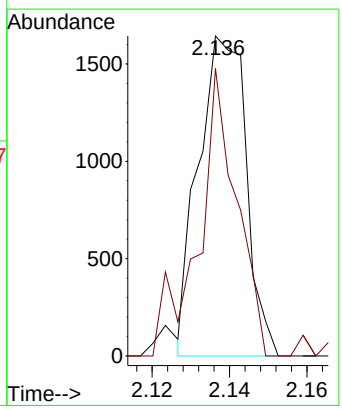


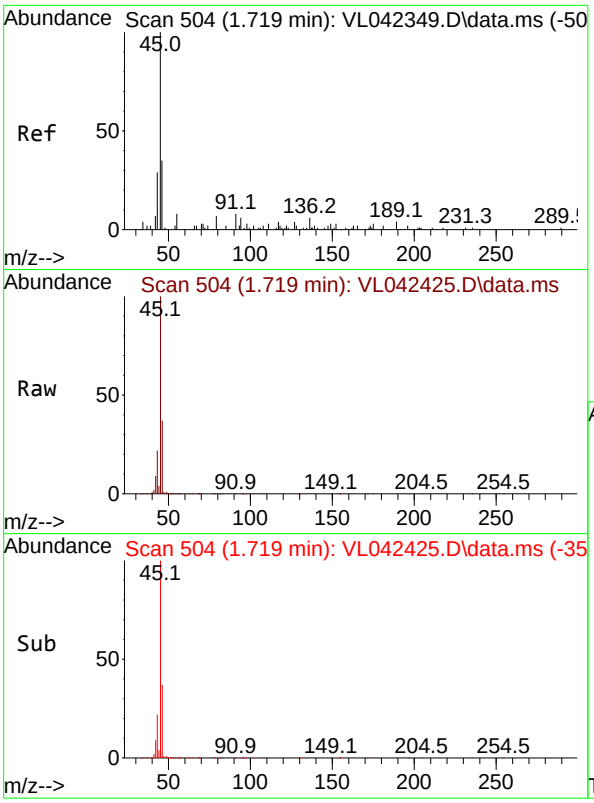




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.077 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Tgt Ion:101 Resp: 1409

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 75.1 | 57.0 | 85.6 |



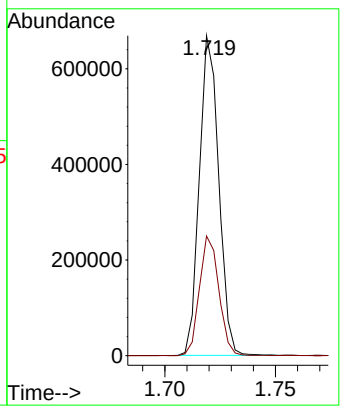


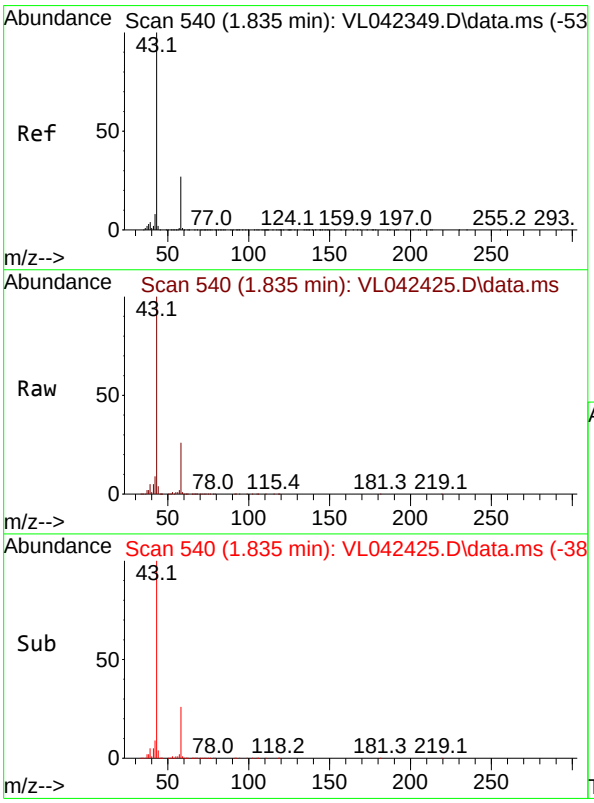

#13
Ethanol
Concen: 251.014 ppbv
RT: 1.719 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-4-3242025

Tgt Ion: 45 Resp: 406613

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 37.8 | 21.9 | 87.7 |

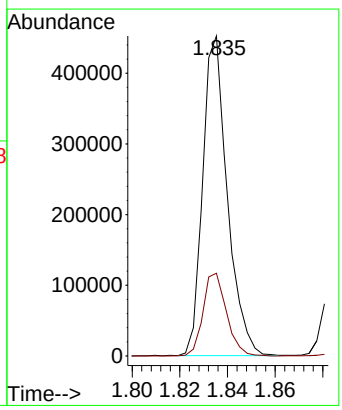


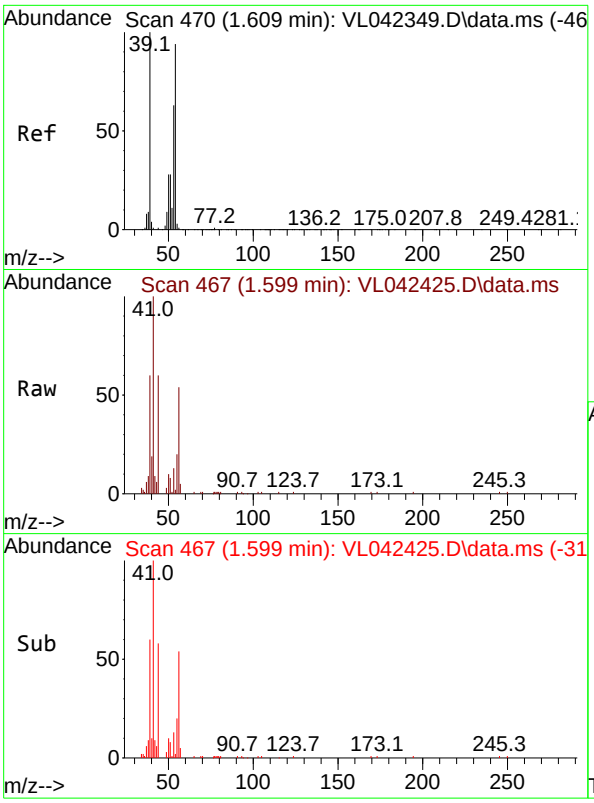




#15
Acetone
Concen: 14.899 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Tgt Ion: 43 Resp: 324431

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 24.7 | 22.4 | 33.6 |



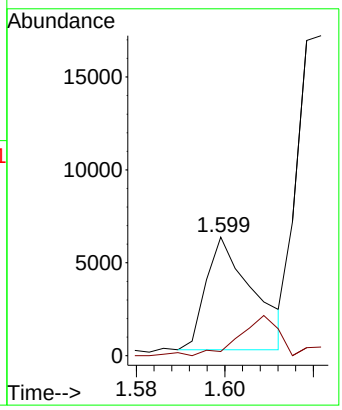


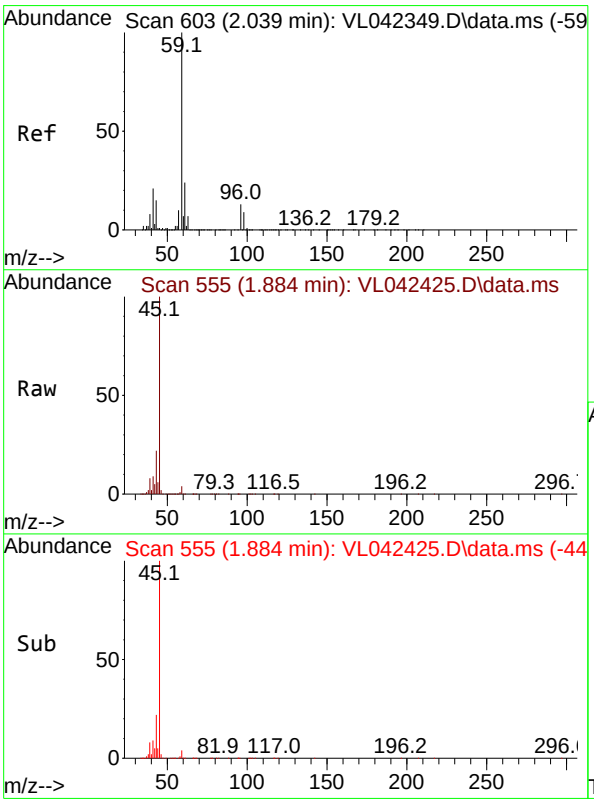

#16
1,3-Butadiene
Concen: 0.426 ppbv
RT: 1.599 min Scan# 4
Delta R.T. -0.010 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-4-3242025

Tgt Ion: 39 Resp: 4434

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 44.7 | 64.9 | 97.3# |

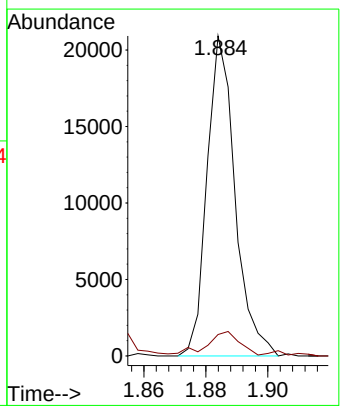


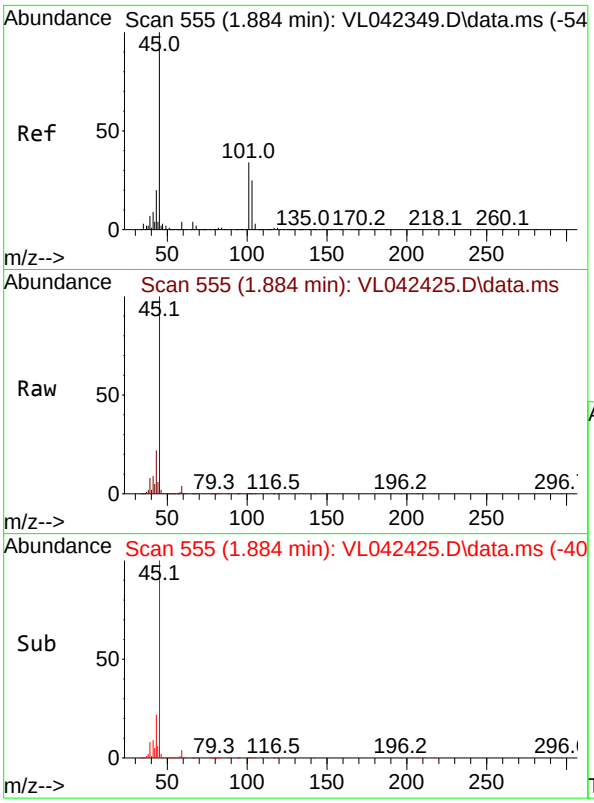




#17
tert-Butyl alcohol
Concen: 0.486 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.155 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Tgt Ion: 59 Resp: 13126

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.5 | 8.7 | 13.1 |



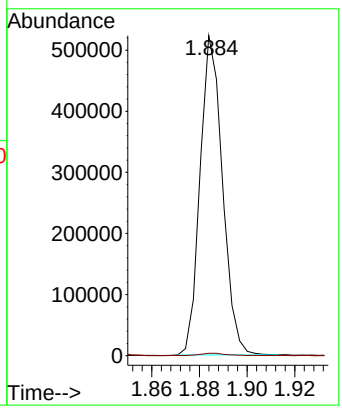


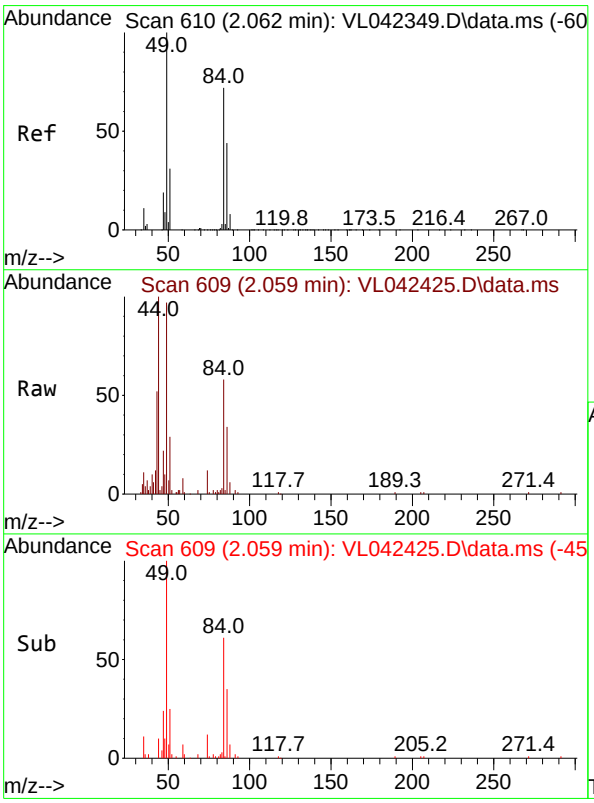

#19
Isopropyl Alcohol
Concen: 28.261 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-4-3242025

Tgt Ion: 45 Resp: 341849

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 1.1 | 34.5 | 51.7# |

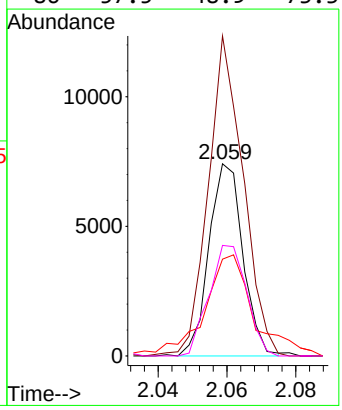


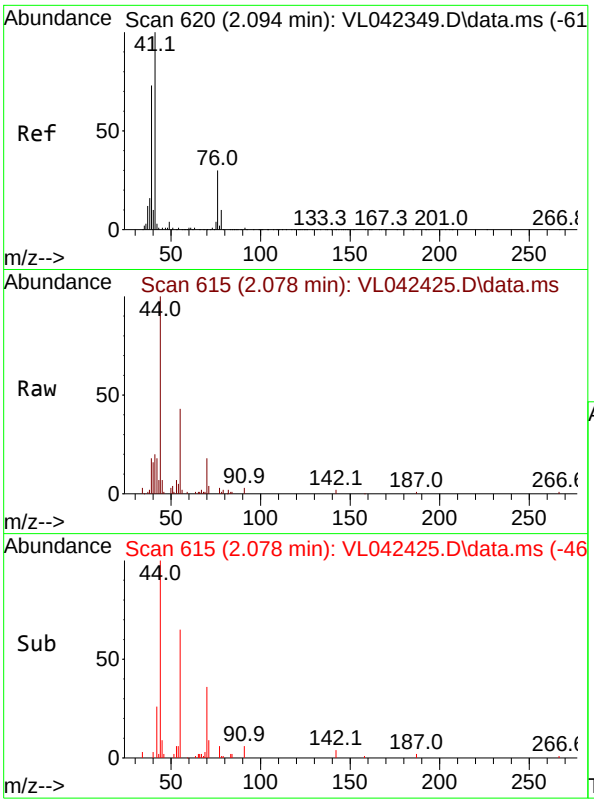




#20
Methylene Chloride
Concen: 0.595 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Tgt Ion: 84 Resp: 5072

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 165.2 | 111.6 | 167.4 |
| 51 | 44.3 | 35.1 | 52.7 |
| 86 | 57.5 | 48.9 | 73.3 |



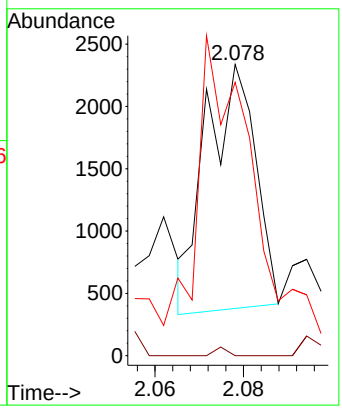


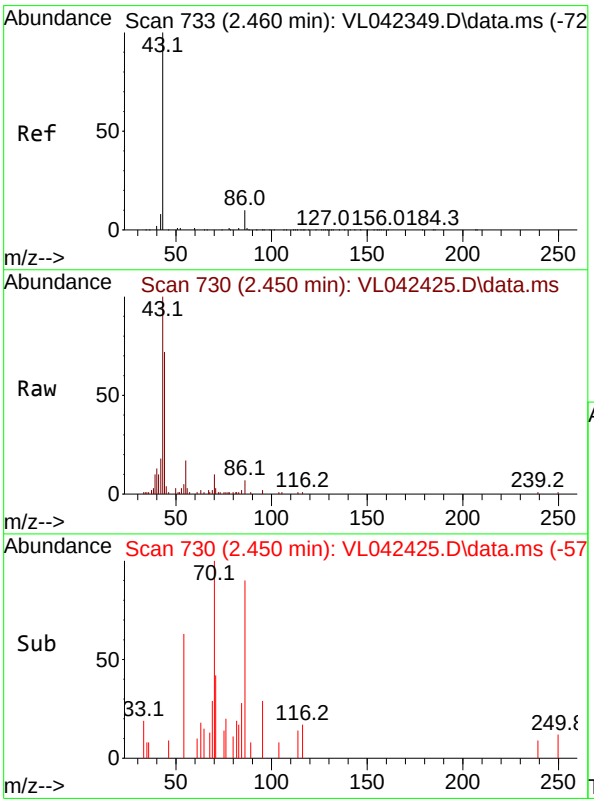

#21
Allyl Chloride
Concen: 0.101 ppbv
RT: 2.078 min Scan# 61
Delta R.T. -0.016 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-4-3242025

Tgt Ion: 41 Resp: 1511

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 3.8 | 24.8 | 37.2# |
| 39 | 119.1 | 60.6 | 90.8# |

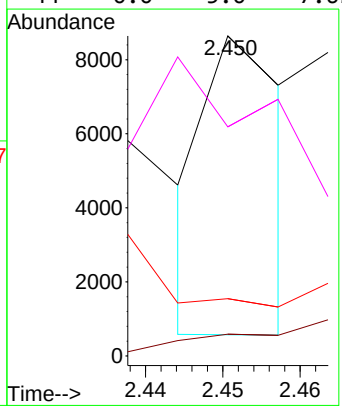


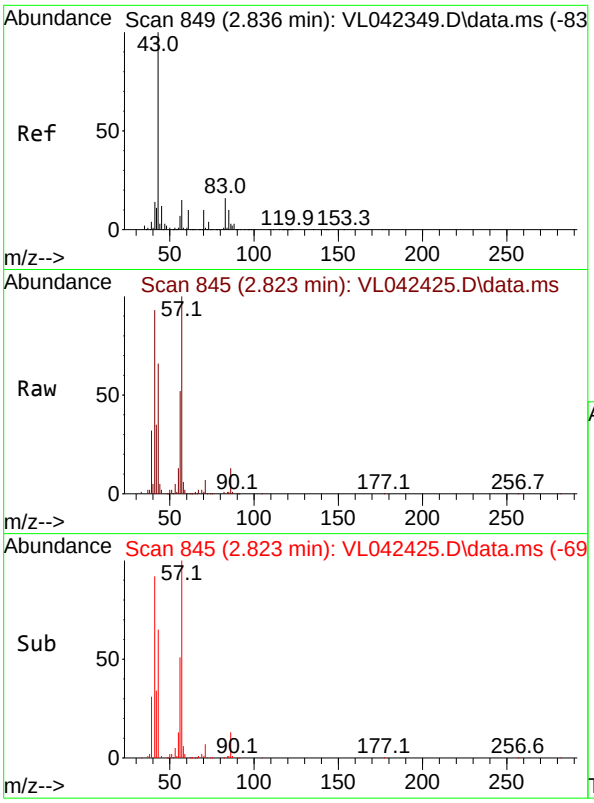




#23
Vinyl Acetate
Concen: 0.327 ppbv
RT: 2.450 min Scan# 730
Delta R.T. -0.010 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Tgt Ion: 43 Resp: 2880

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 4.2 | 6.5 | 9.7# |
| 42 | 5.6 | 7.8 | 11.8# |
| 44 | 0.0 | 5.0 | 7.6# |



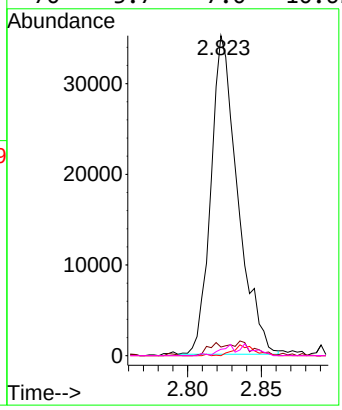


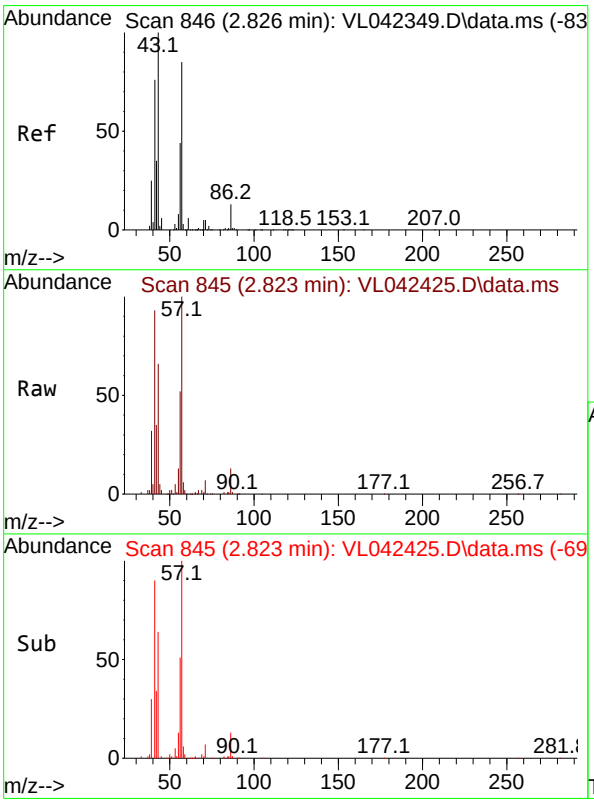

#25
Ethyl Acetate
Concen: 0.828 ppbv
RT: 2.823 min Scan# 84
Delta R.T. -0.013 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-4-3242025

Tgt Ion: 43 Resp: 44445

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 6.4 | 8.3 | 12.5# |
| 61 | 2.7 | 7.3 | 10.9# |
| 70 | 3.7 | 7.0 | 10.6# |

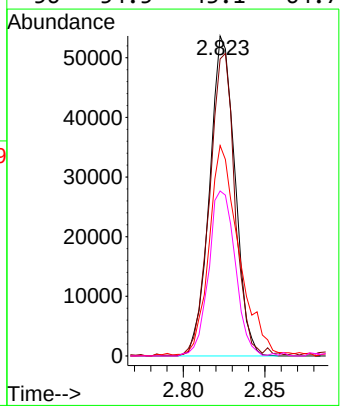


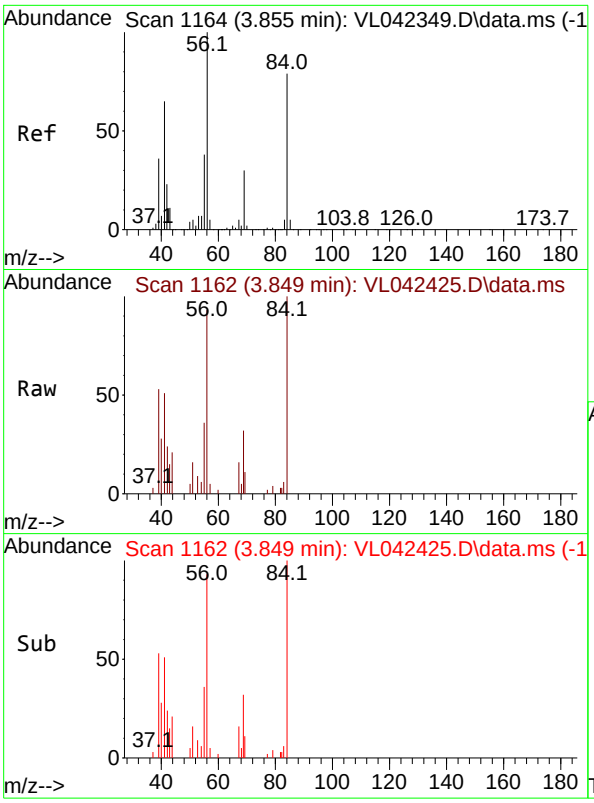




#26
Hexane
Concen: 2.667 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Tgt Ion: 57 Resp: 57941

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 96.5 | 77.9 | 116.9 |
| 43 | 79.5 | 208.4 | 312.6# |
| 56 | 54.5 | 43.1 | 64.7 |



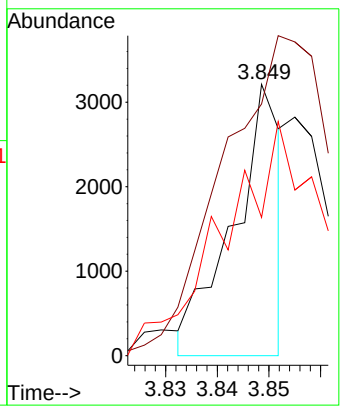


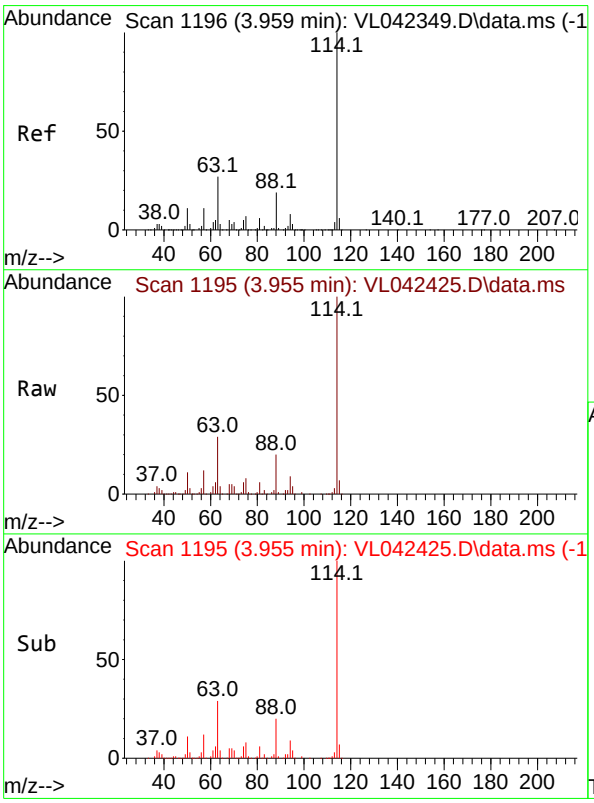

#30
Cyclohexane
Concen: 0.117 ppbv
RT: 3.849 min Scan# 11
Delta R.T. -0.006 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-4-3242025

Tgt Ion: 84 Resp: 2059

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 0.0 | 101.0 | 151.4# |
| 41 | 0.0 | 67.4 | 101.0# |

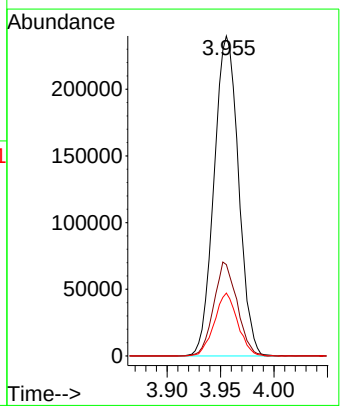


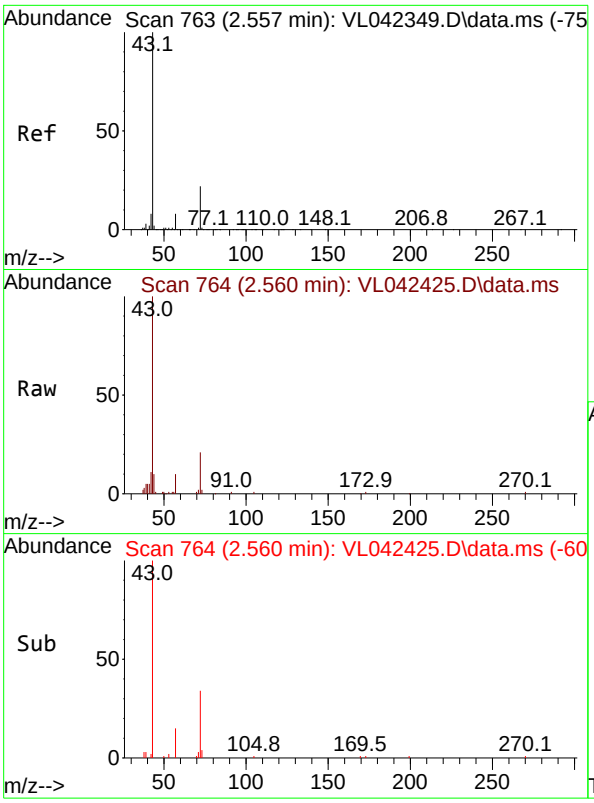




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.003 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Tgt Ion:114 Resp: 381932

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 28.1 | 21.8 | 32.6 |
| 88 | 18.8 | 15.5 | 23.3 |



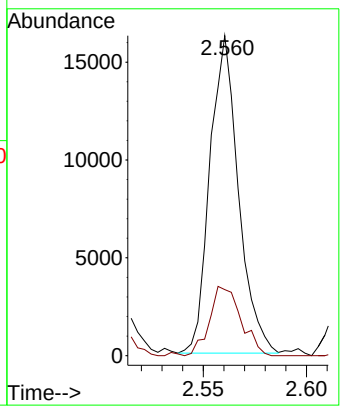


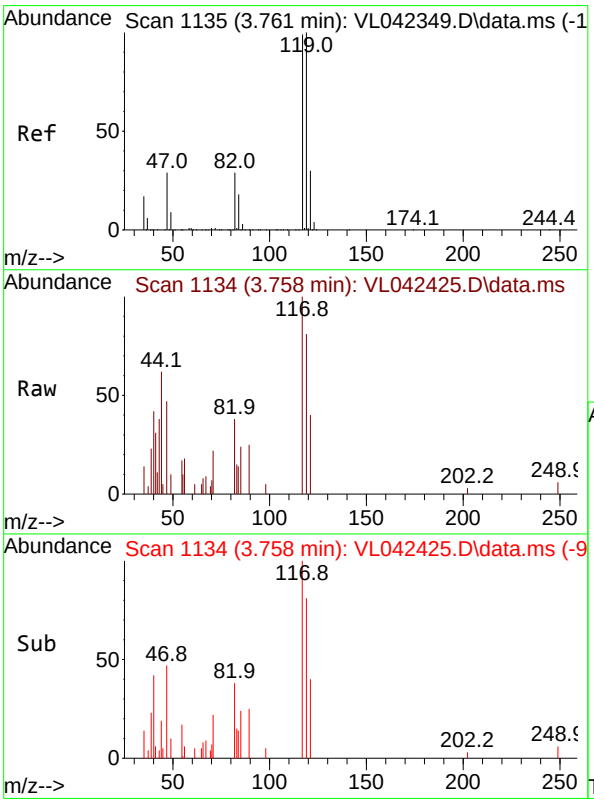

#34
2-Butanone
Concen: 0.518 ppbv
RT: 2.560 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-4-3242025

Tgt Ion: 43 Resp: 15646

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 23.9 | 18.2 | 27.2 |

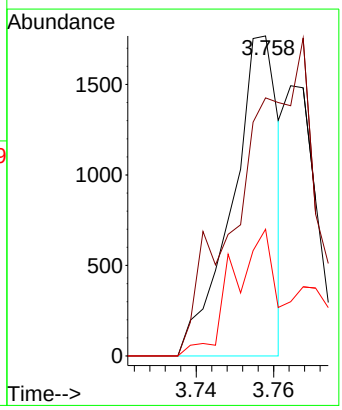


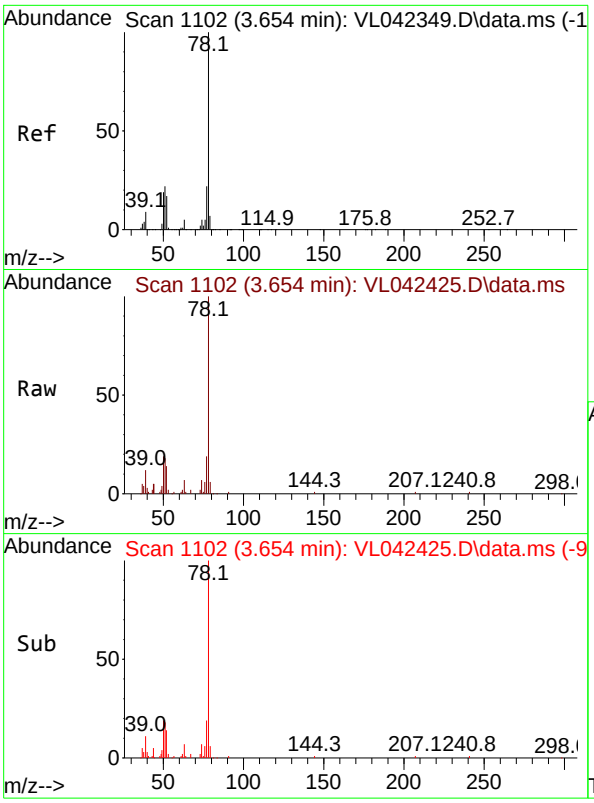




#35
Carbon Tetrachloride
Concen: 0.042 ppbv
RT: 3.758 min Scan# 1134
Delta R.T. -0.003 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Tgt Ion:117 Resp: 1464

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 80.7 | 80.5 | 120.7 |
| 121 | 39.6 | 24.2 | 36.2# |



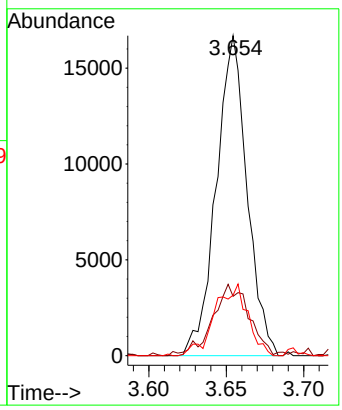


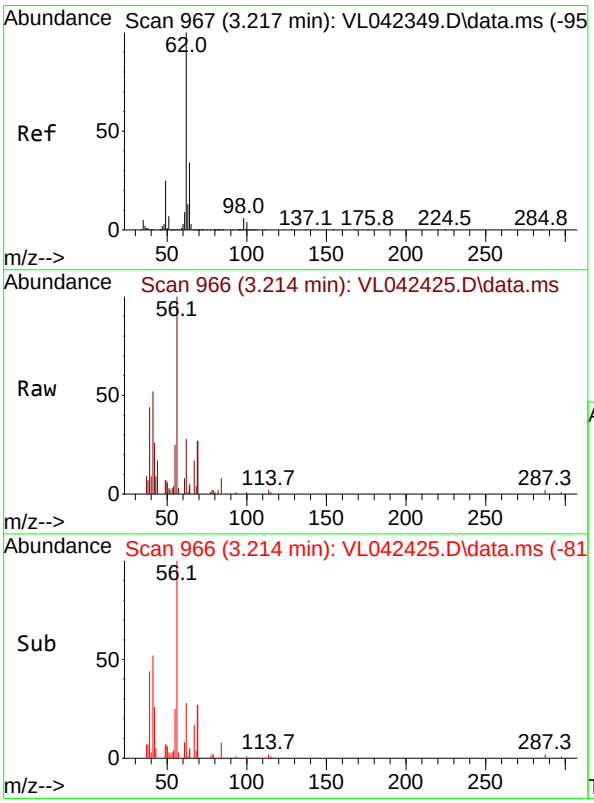

#36
Benzene
Concen: 0.562 ppbv
RT: 3.654 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-4-3242025

Tgt Ion: 78 Resp: 23147

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 17.7 | 17.4 | 26.0 |
| 50 | 18.9 | 15.5 | 23.3 |

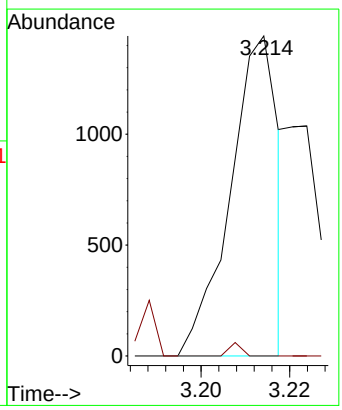


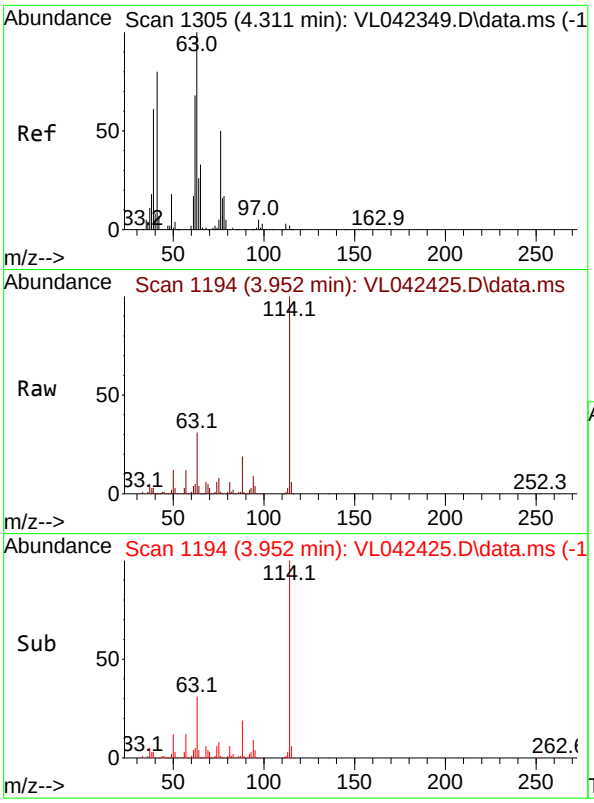




#37
1,2-Dichloroethane
Concen: 0.044 ppbv
RT: 3.214 min Scan# 966
Delta R.T. -0.003 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Tgt Ion: 62 Resp: 1080

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 0.0 | 5.1 | 7.7# |



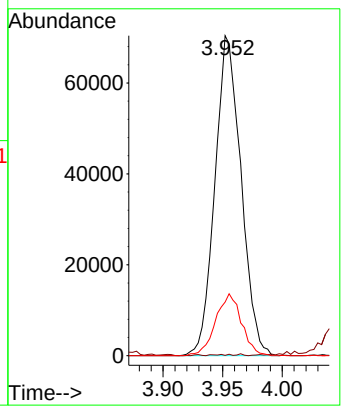


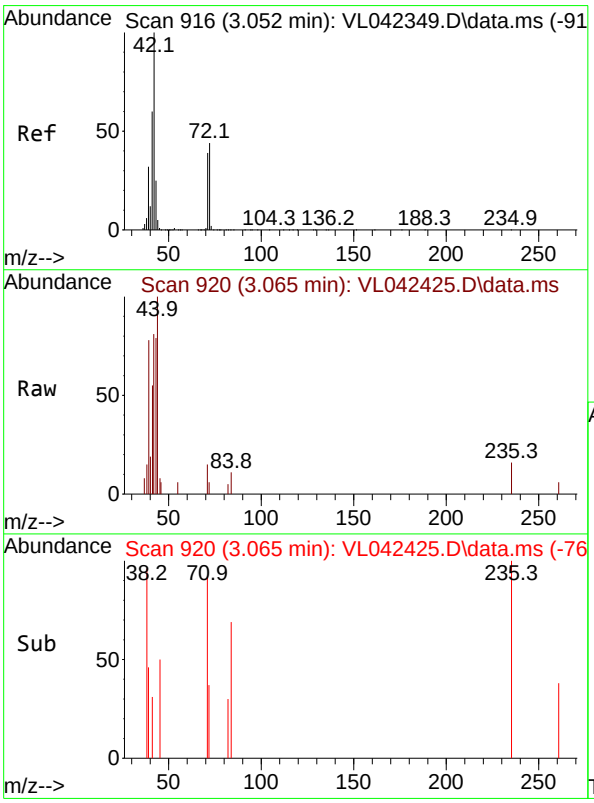

#39
1,2-Dichloropropane
Concen: 6.979 ppbv
RT: 3.952 min Scan# 11
Delta R.T. -0.359 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-4-3242025

Tgt Ion: 63 Resp: 107133

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 0.1 | 64.2 | 96.2# |
| 62 | 16.8 | 54.3 | 81.5# |

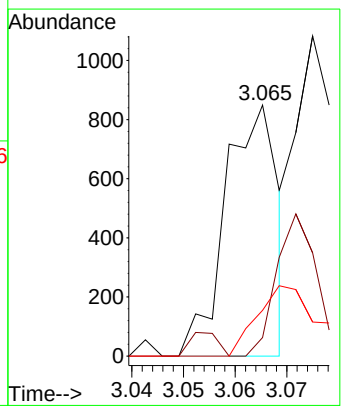


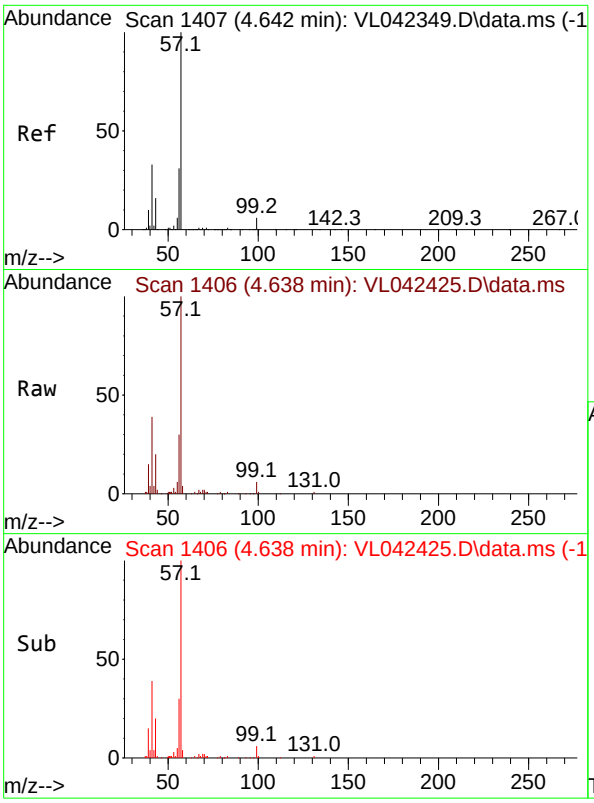




#41
Tetrahydrofuran
Concen: 0.034 ppbv
RT: 3.065 min Scan# 920
Delta R.T. 0.013 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Tgt Ion: 42 Resp: 602

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 47.5 | 32.3 | 48.5 |
| 71 | 45.3 | 31.4 | 47.2 |



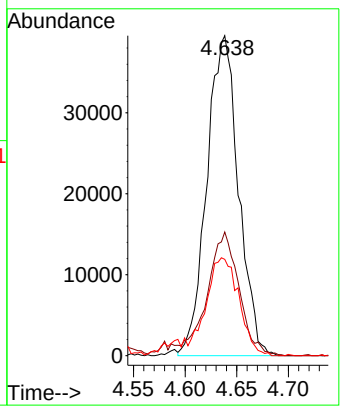


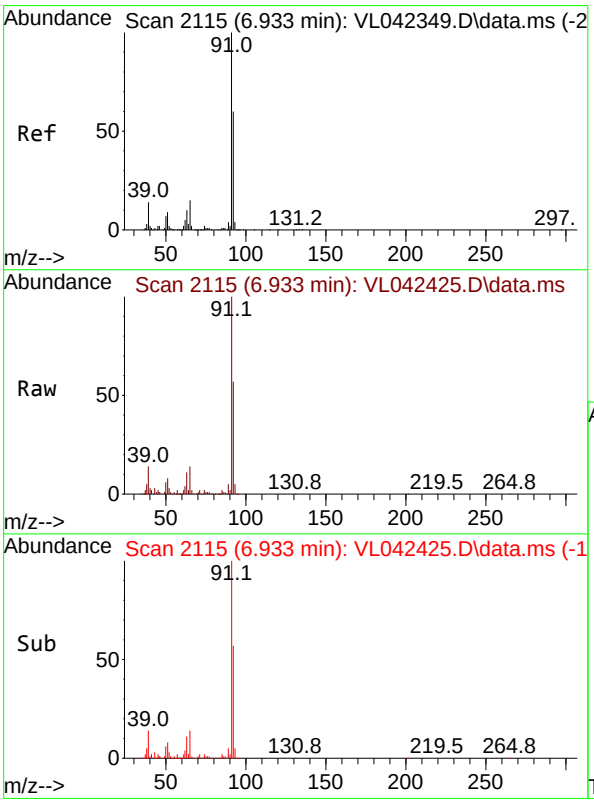

#44
2,2,4-Trimethylpentane
Concen: 1.186 ppbv
RT: 4.638 min Scan# 14
Delta R.T. -0.003 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-4-3242025

Tgt Ion: 57 Resp: 84397

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 40.9 | 27.2 | 40.8# |
| 56 | 35.2 | 25.7 | 38.5 |

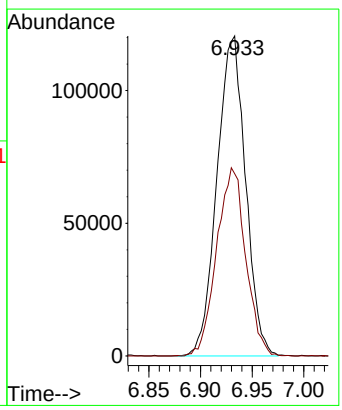


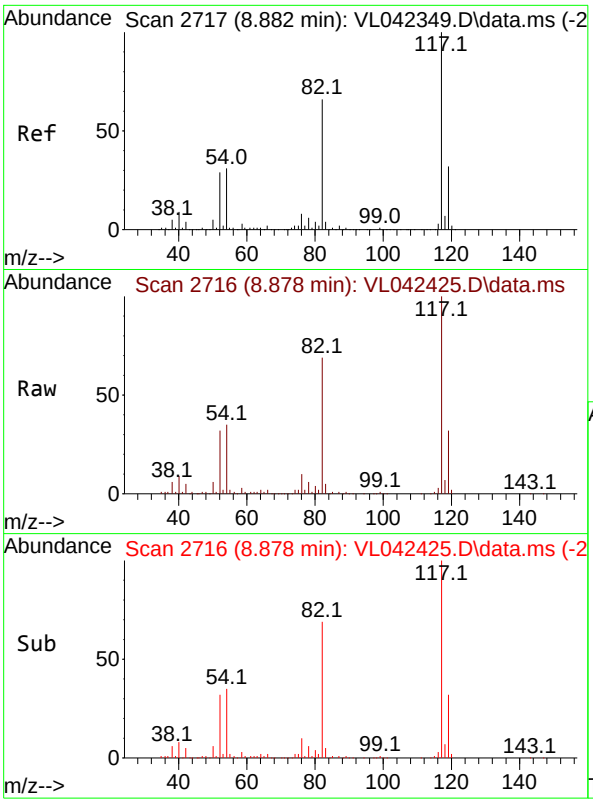




#53
Toluene
Concen: 4.695 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. -0.000 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Tgt Ion: 91 Resp: 232100

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 59.8 | 48.2 | 72.4 |



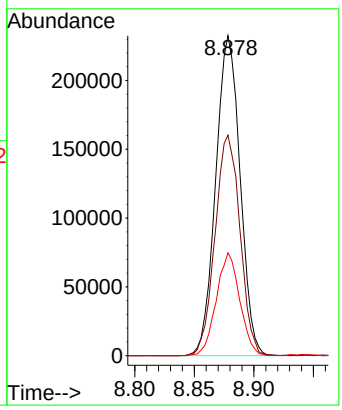


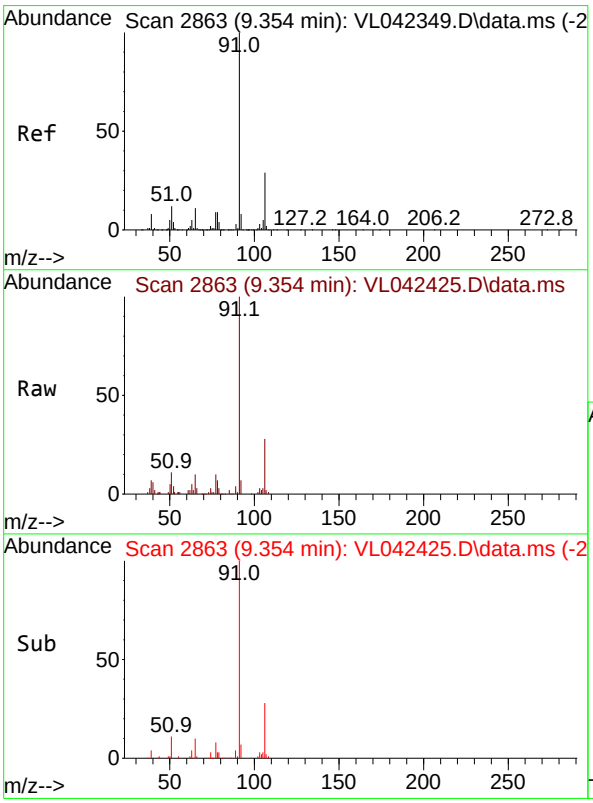

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-4-3242025

Tgt Ion:117 Resp: 330693

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 70.5 | 57.8 | 86.6 |
| 119 | 31.0 | 25.2 | 37.8 |

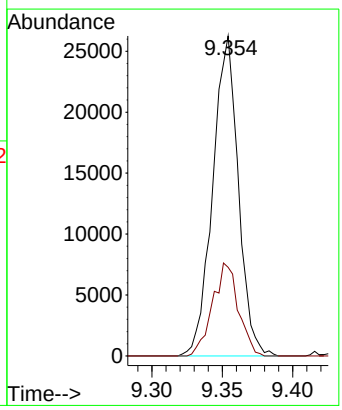


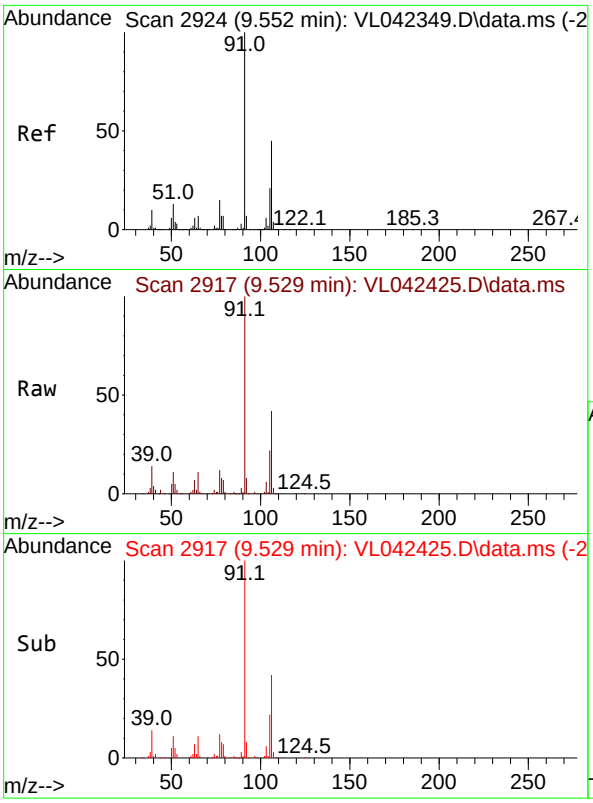




#58
Ethyl Benzene
Concen: 0.508 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. -0.000 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Tgt Ion: 91 Resp: 33267

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 27.7 | 23.0 | 34.4 |



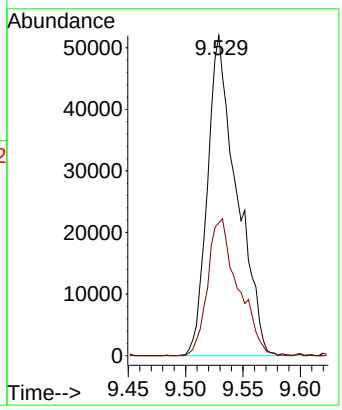


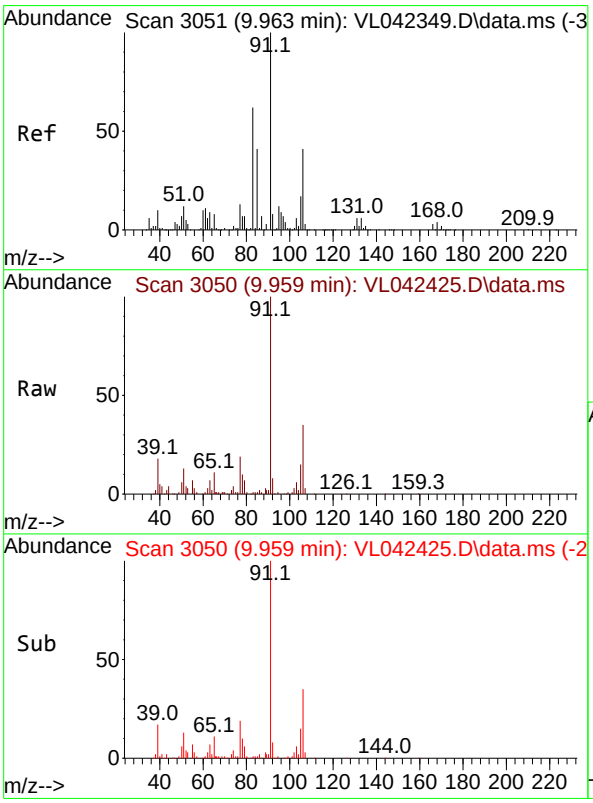

#59
m/p-Xylene
Concen: 1.750 ppbv
RT: 9.529 min Scan# 2
Delta R.T. -0.023 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-4-3242025

Tgt Ion: 91 Resp: 92347

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 44.3 | 35.4 | 53.2 |

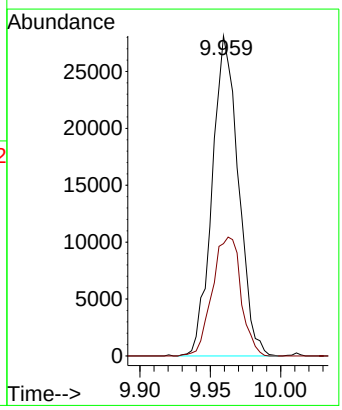


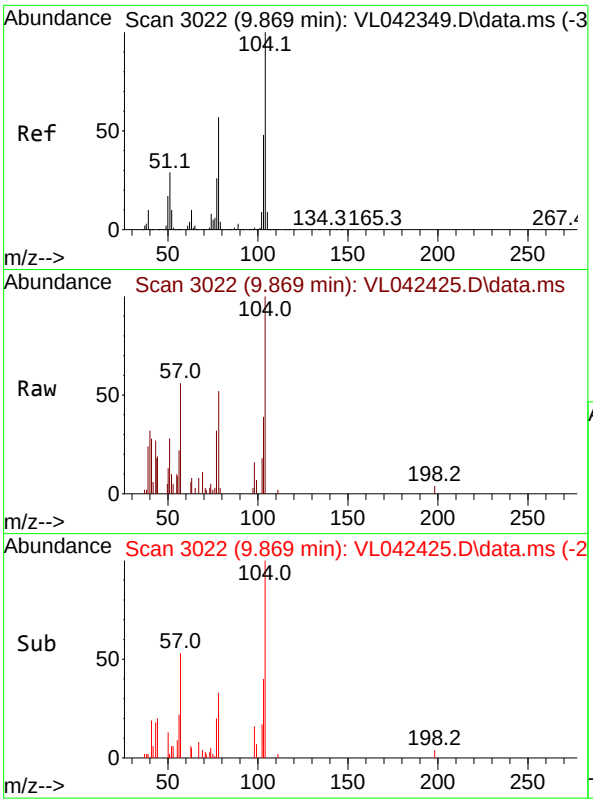




#60
o-Xylene
Concen: 0.688 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.003 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Tgt Ion: 91 Resp: 36544

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 40.5 | 21.1 | 63.4 |



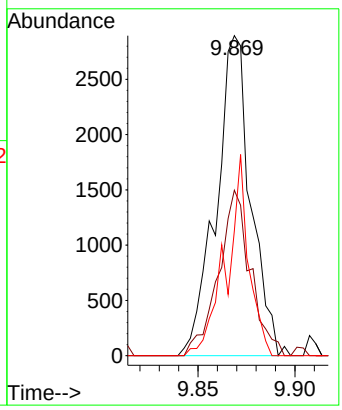


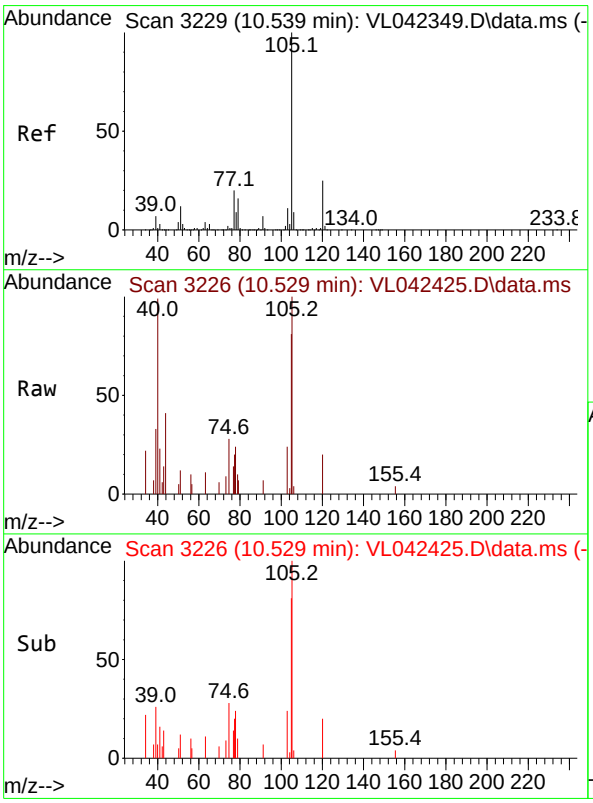

#61
Styrene
Concen: 0.141 ppbv
RT: 9.869 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-4-3242025

Tgt Ion:104 Resp: 3587

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 48.8 | 44.6 | 66.8 |
| 103 | 41.0 | 37.4 | 56.0 |

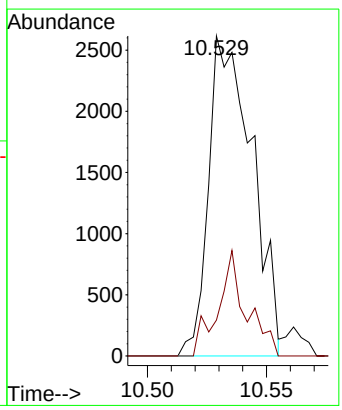


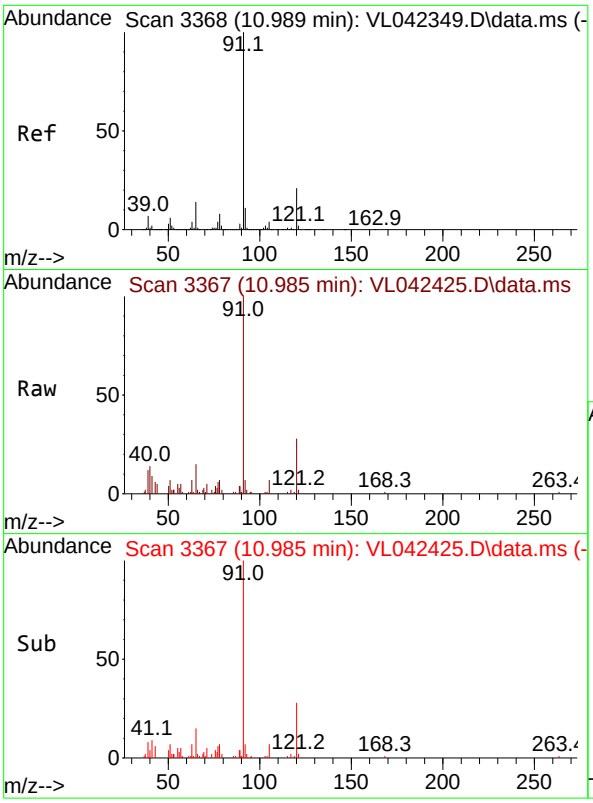




#62
Isopropylbenzene
Concen: 0.042 ppbv
RT: 10.529 min Scan# 3226
Delta R.T. -0.010 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Tgt Ion:105 Resp: 3313

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 21.6 | 19.8 | 29.8 |



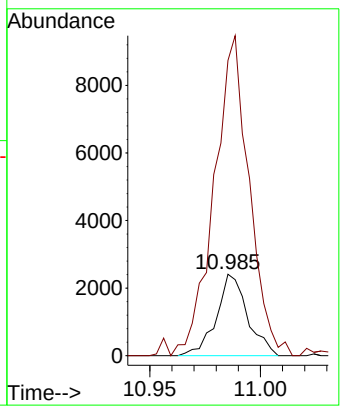


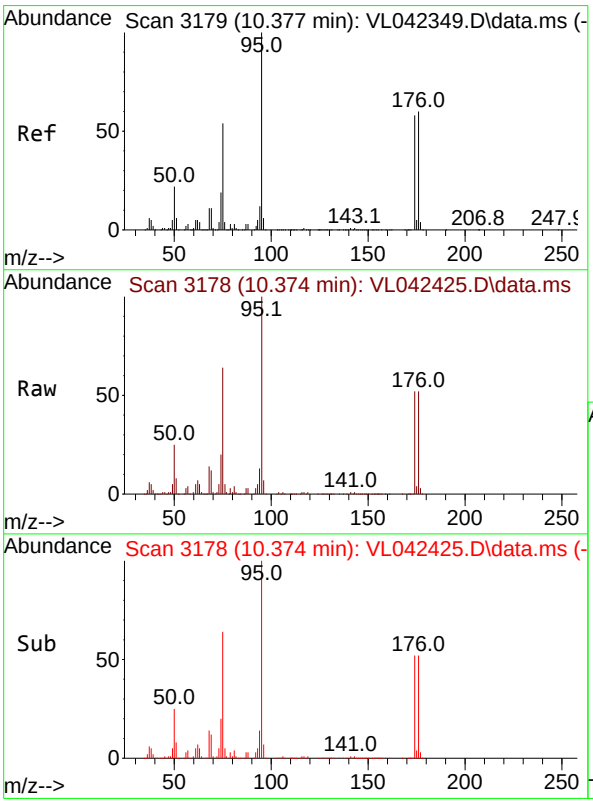

#64
n-propylbenzene
Concen: 0.120 ppbv
RT: 10.985 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-4-3242025

Tgt Ion:120 Resp: 2357

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 452.8 | 392.4 | 588.6 |

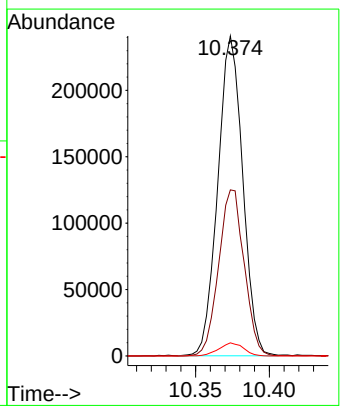


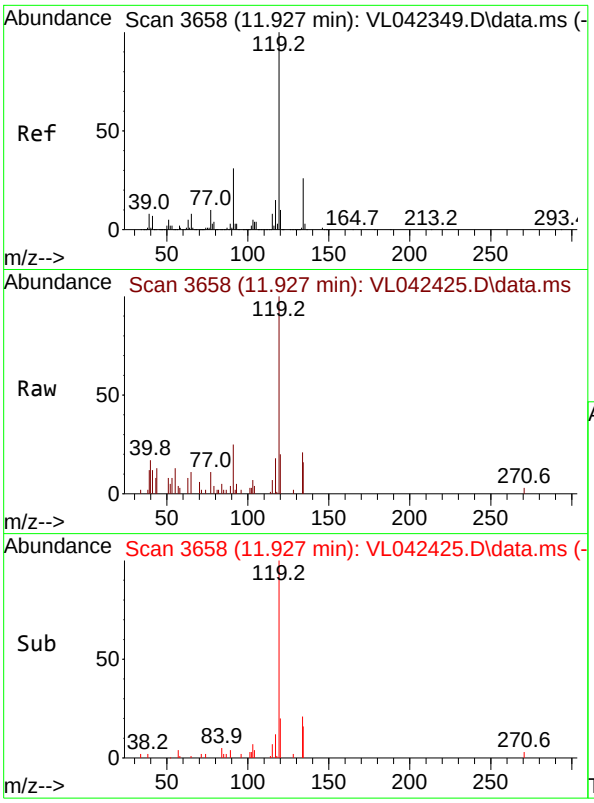




#68
1-Bromo-4-Fluorobenzene
Concen: 10.401 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.003 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Tgt Ion: 95 Resp: 282648

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 53.4 | 48.5 | 72.7 |
| 175 | 4.1 | 3.7 | 5.5 |



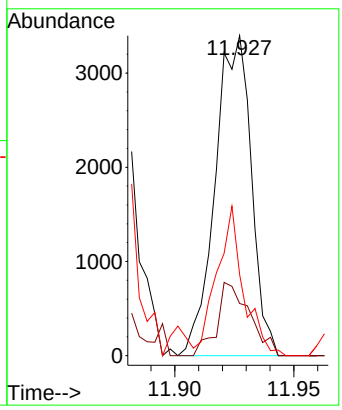


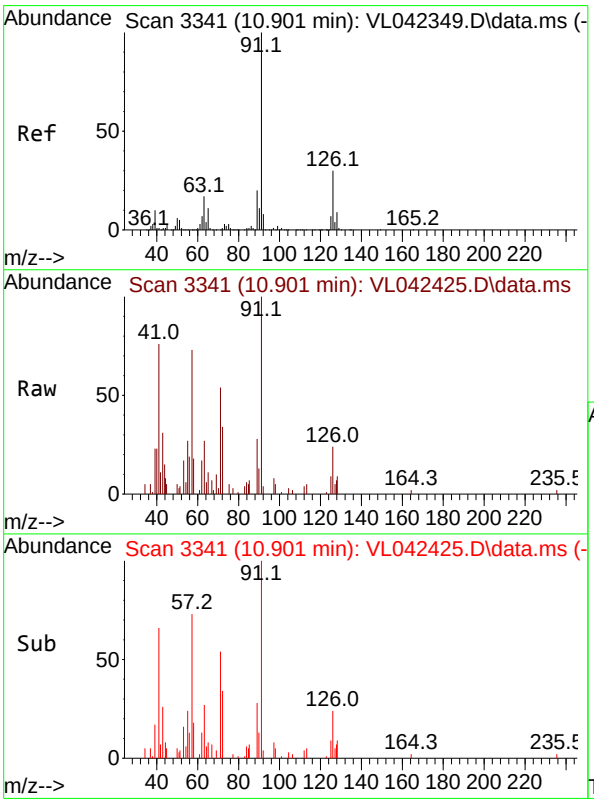

#69
p-Isopropyltoluene
Concen: 0.041 ppbv
RT: 11.927 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-4-3242025

Tgt Ion:119 Resp: 3573

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 20.8 | 20.0 | 30.0 |
| 91 | 34.6 | 24.4 | 36.6 |

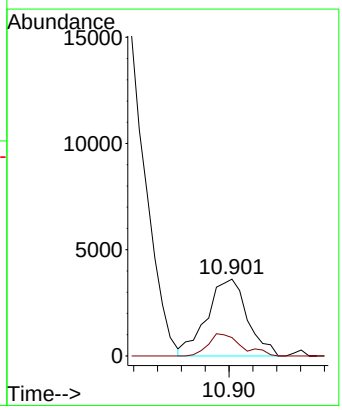


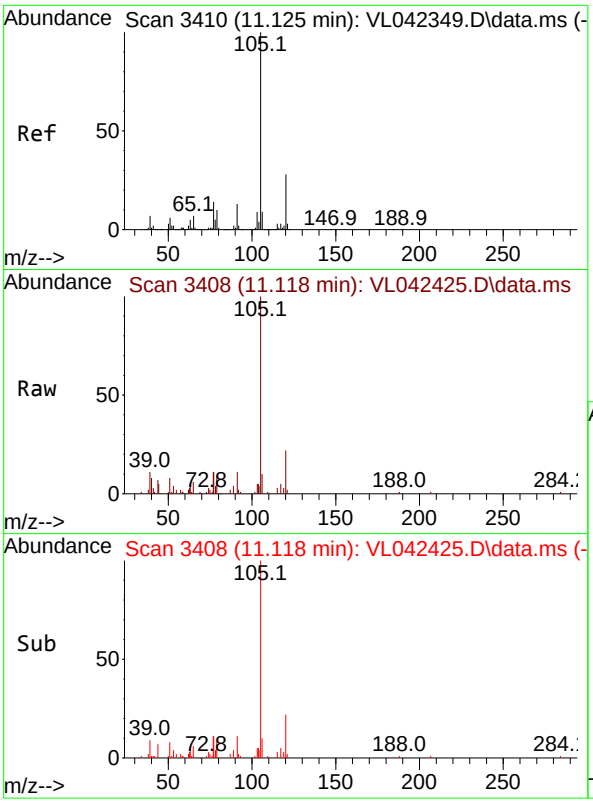




#71
2-Chlorotoluene
Concen: 0.069 ppbv
RT: 10.901 min Scan# 3341
Delta R.T. -0.000 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Tgt Ion: 91 Resp: 4240

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 23.7 | 11.4 | 45.4 |



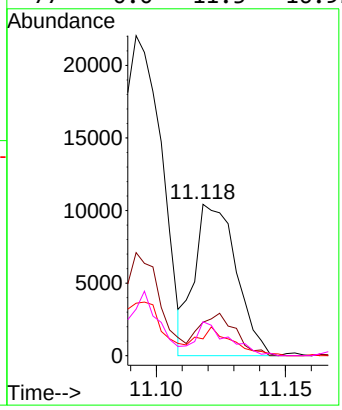


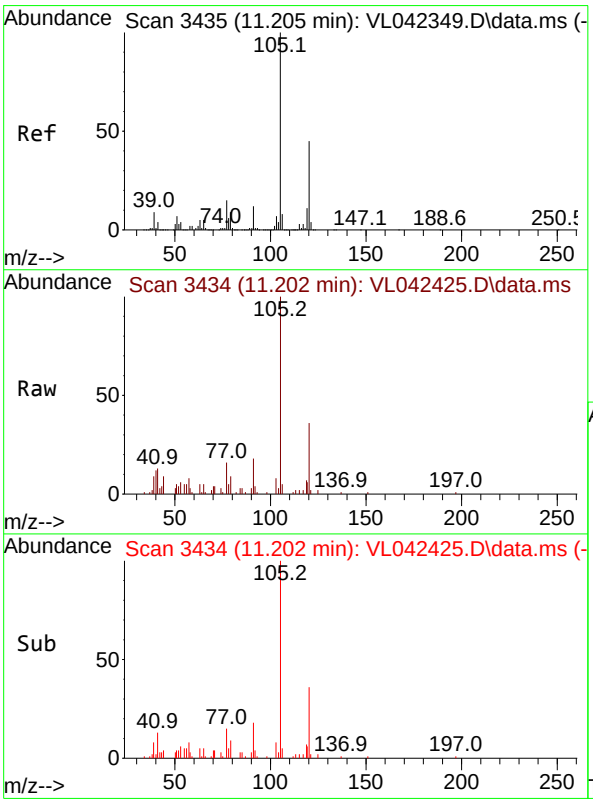

#72
4-Ethyltoluene
Concen: 0.182 ppbv
RT: 11.118 min Scan# 34
Delta R.T. -0.007 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-4-3242025

Tgt Ion:105 Resp: 11801

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 0.0 | 23.2 | 34.8# |
| 91 | 0.0 | 10.4 | 15.6# |
| 77 | 0.0 | 11.3 | 16.9# |

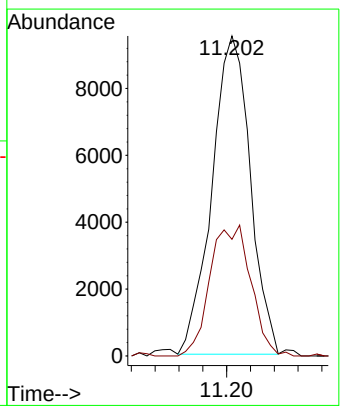


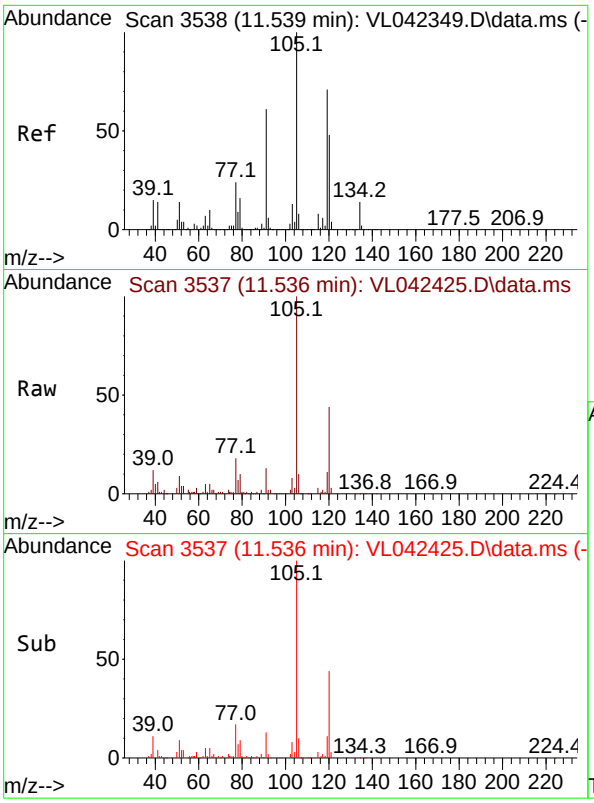




#73
1,3,5-Trimethylbenzene
Concen: 0.186 ppbv
RT: 11.202 min Scan# 3434
Delta R.T. -0.003 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Tgt Ion:105 Resp: 10642

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 36.6 | 35.6 | 53.4 |



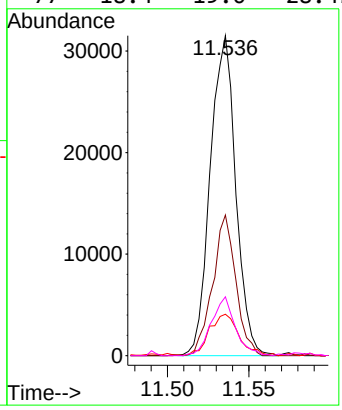


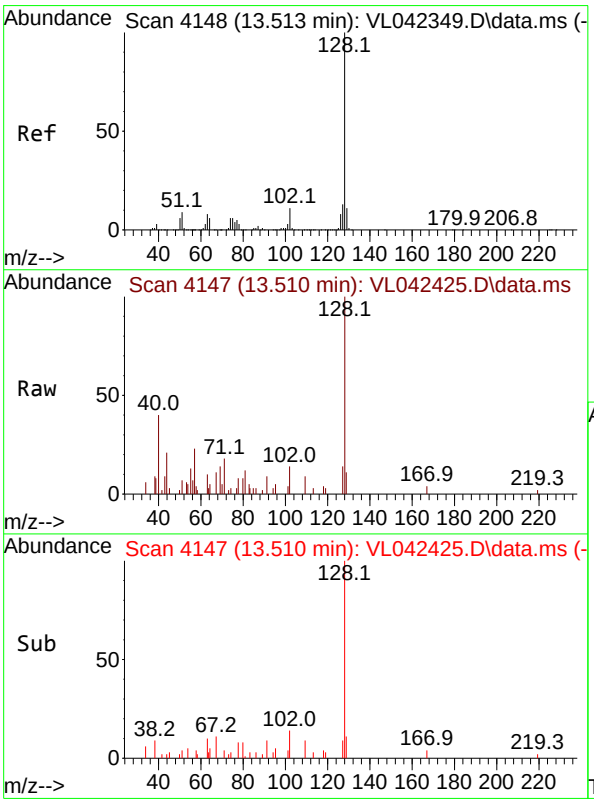

#74
1,2,4-Trimethylbenzene
Concen: 0.512 ppbv
RT: 11.536 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-4-3242025

Tgt Ion:105 Resp: 34307

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.0 | 38.1 | 57.1 |
| 91 | 13.0 | 48.8 | 73.2# |
| 77 | 18.4 | 19.0 | 28.4# |

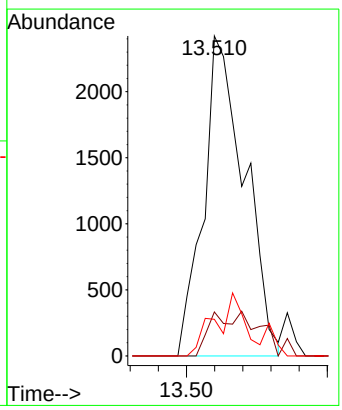



#79
Naphthalene
Concen: 0.031 ppbv
RT: 13.510 min Scan# 4147
Delta R.T. -0.003 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Tgt Ion:128 Resp: 2447

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.3 | 10.6 | 15.8 |
| 129 | 10.3 | 8.6 | 12.8 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
Data File : VL042436.D
Acq On : 29 Apr 2025 08:39
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Quant Time: Apr 30 01:15:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) Bromochloromethane | 2.780 | 49 | 114553 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.952 | 114 | 311268 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.878 | 117 | 269987 | 10.000 | ppbv | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.373 | 95 | 253216 | 11.413 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 114.100% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.495 | 85 | 234841 | 11.603 | ppbv | | 97 |
| 3) Chlorodifluoromethane | 1.473 | 51 | 188007 | 9.755 | ppbv | | 95 |
| 4) Chloromethane | 1.531 | 50 | 90298 | 11.274 | ppbv | | 100 |
| 5) Vinyl Chloride | 1.576 | 62 | 86603 | 9.933 | ppbv | | 96 |
| 6) Bromomethane | 1.664 | 94 | 41020 | 10.952 | ppbv | | 85 |
| 7) Chloroethane | 1.703 | 64 | 35167 | 11.153 | ppbv | | 95 |
| 8) Dichlorotetrafluoroethane | 1.550 | 85 | 199977 | 11.508 | ppbv | | 94 |
| 9) Propene | 1.482 | 41 | 69189 | 7.883 | ppbv | | 98 |
| 10) Heptane | 4.968 | 43 | 184737 | 7.492 | ppbv | | 99 |
| 11) Trichlorofluoromethane | 1.874 | 101 | 227979 | 11.845 | ppbv | | 96 |
| 12) 1,1,2-Trichlorotrifluo... | 2.136 | 101 | 172070 | 10.934 | ppbv | | 99 |
| 13) Ethanol | 1.719 | 45 | 4336 | 3.108 | ppbv | | 81 |
| 14) Bromoethene | 1.777 | 108 | 63597 | 10.721 | ppbv | | 97 |
| 15) Acetone | 1.832 | 43 | 184887 | 9.859 | ppbv | | 98 |
| 16) 1,3-Butadiene | 1.605 | 39 | 88889 | 9.910 | ppbv | | 95 |
| 17) tert-Butyl alcohol | 2.036 | 59 | 229627 | 9.881 | ppbv | | 99 |
| 18) 1,1-Dichloroethene | 2.029 | 96 | 75451 | 10.263 | ppbv | | 94 |
| 19) Isopropyl Alcohol | 1.884 | 45 | 101987 | 9.790 | ppbv | | 91 |
| 20) Methylene Chloride | 2.059 | 84 | 67278 | 9.161 | ppbv | | 95 |
| 21) Allyl Chloride | 2.091 | 41 | 131864 | 10.184 | ppbv | | 98 |
| 22) trans-1,2-Dichloroethene | 2.337 | 96 | 86577 | 10.343 | ppbv | | 95 |
| 23) Vinyl Acetate | 2.460 | 43 | 61601 | 8.115 | ppbv | # | 95 |
| 24) 1,1-Dichloroethane | 2.405 | 63 | 172555 | 10.852 | ppbv | | 98 |
| 25) Ethyl Acetate | 2.832 | 43 | 408744 | 8.840 | ppbv | | 100 |
| 26) Hexane | 2.819 | 57 | 153801 | 8.220 | ppbv | | 96 |
| 27) Carbon Disulfide | 2.146 | 76 | 212793 | 10.622 | ppbv | | 99 |
| 28) Methyl tert-Butyl Ether | 2.437 | 73 | 114108 | 9.308 | ppbv | | 93 |
| 29) Chloroform | 2.845 | 83 | 290965 | 11.002 | ppbv | | 100 |
| 30) Cyclohexane | 3.848 | 84 | 130608 | 8.635 | ppbv | | 97 |
| 31) cis-1,2-Dichloroethene | 2.716 | 61 | 174659 | 9.818 | ppbv | | 97 |
| 32) 1,1,1-Trichloroethane | 3.363 | 97 | 312430 | 10.493 | ppbv | | 99 |
| 34) 2-Butanone | 2.554 | 43 | 232034 | 9.426 | ppbv | | 98 |
| 35) Carbon Tetrachloride | 3.755 | 117 | 316689 | 11.242 | ppbv | | 94 |
| 36) Benzene | 3.651 | 78 | 314493 | 9.367 | ppbv | | 95 |
| 37) 1,2-Dichloroethane | 3.214 | 62 | 244516 | 12.134 | ppbv | # | 96 |
| 38) Trichloroethene | 4.541 | 130 | 123997 | 8.450 | ppbv | # | 88 |
| 39) 1,2-Dichloropropane | 4.305 | 63 | 110315 | 8.817 | ppbv | # | 84 |
| 40) 1,4-Dioxane | 4.577 | 88 | 54364 | 7.907 | ppbv | # | 90 |
| 41) Tetrahydrofuran | 3.049 | 42 | 121700 | 8.479 | ppbv | | 100 |
| 42) Bromodichloromethane | 4.483 | 83 | 312029 | 11.127 | ppbv | | 98 |
| 43) Methyl Methacrylate | 4.874 | 69 | 126594 | 8.367 | ppbv | | 94 |
| 44) 2,2,4-Trimethylpentane | 4.632 | 57 | 522427 | 9.010 | ppbv | | 94 |
| 45) t-1,3-Dichloropropene | 6.409 | 75 | 139508 | 9.026 | ppbv | | 89 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
Data File : VL042436.D
Acq On : 29 Apr 2025 08:39
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Quant Time: Apr 30 01:15:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.587 | 75 | 169355 | 8.953 | ppbv | | 90 |
| 47) 1,1,2-Trichloroethane | 6.570 | 97 | 86392 | 6.778 | ppbv | | 97 |
| 48) Dibromochloromethane | 7.380 | 129 | 232818 | 10.339 | ppbv | | 100 |
| 49) Bromoform | 9.477 | 173 | 188896 | 9.593 | ppbv | | 99 |
| 50) 4-Methyl-2-Pentanone | 5.742 | 43 | 325855 | 7.965 | ppbv | | 99 |
| 51) 2-Hexanone | 7.428 | 43 | 269915 | 7.357 | ppbv | # | 93 |
| 52) Tetrachloroethene | 8.218 | 164 | 101642 | 7.833 | ppbv | # | 84 |
| 53) Toluene | 6.926 | 91 | 361317 | 8.968 | ppbv | | 100 |
| 54) 1,2-Dibromoethane | 7.645 | 107 | 179895 | 9.861 | ppbv | | 97 |
| 56) 1,1,1,2-Tetrachloroethane | 8.917 | 131 | 182759 | 11.184 | ppbv | | 95 |
| 57) Chlorobenzene | 8.920 | 112 | 283210 | 10.086 | ppbv | | 97 |
| 58) Ethyl Benzene | 9.351 | 91 | 536634 | 10.032 | ppbv | | 96 |
| 59) m/p-Xylene | 9.545 | 91 | 469573 | 10.897 | ppbv | # | 43 |
| 60) o-Xylene | 9.959 | 91 | 463713 | 10.686 | ppbv | | 96 |
| 61) Styrene | 9.869 | 104 | 195813 | 9.454 | ppbv | | 98 |
| 62) Isopropylbenzene | 10.535 | 105 | 672630 | 10.558 | ppbv | | 98 |
| 63) 1,1,2,2-Tetrachloroethane | 9.959 | 83 | 272746 | 9.699 | ppbv | | 99 |
| 64) n-propylbenzene | 10.985 | 120 | 160736 | 10.037 | ppbv | | 90 |
| 65) tert-Butylbenzene | 11.529 | 119 | 616872 | 10.535 | ppbv | | 98 |
| 66) Benzyl Chloride | 11.613 | 91 | 49841 | 7.746 | ppbv | | 98 |
| 67) sec-Butylbenzene | 11.765 | 105 | 869595 | 10.677 | ppbv | | 99 |
| 69) p-Isopropyltoluene | 11.924 | 119 | 738863 | 10.442 | ppbv | | 96 |
| 70) n-Butylbenzene | 12.280 | 91 | 787717 | 10.688 | ppbv | | 98 |
| 71) 2-Chlorotoluene | 10.898 | 91 | 528205 | 10.571 | ppbv | | 96 |
| 72) 4-Ethyltoluene | 11.121 | 105 | 559285 | 10.542 | ppbv | | 96 |
| 73) 1,3,5-Trimethylbenzene | 11.199 | 105 | 493949 | 10.546 | ppbv | | 93 |
| 74) 1,2,4-Trimethylbenzene | 11.535 | 105 | 554136 | 10.130 | ppbv | | 96 |
| 75) 1,3-Dichlorobenzene | 11.603 | 146 | 285025 | 10.024 | ppbv | | 97 |
| 76) 1,4-Dichlorobenzene | 11.668 | 146 | 291795 | 10.210 | ppbv | | 98 |
| 77) 1,2-Dichlorobenzene | 11.943 | 146 | 283700 | 10.261 | ppbv | | 97 |
| 78) Hexachloro-1,3-Butadiene | 13.879 | 225 | 263477 | 9.437 | ppbv | | 99 |
| 79) Naphthalene | 13.510 | 128 | 615408 | 9.408 | ppbv | | 99 |
| 80) Naphthalene,2-methyl- | 14.455 | 142 | 316788 | 8.497 | ppbv | | 96 |
| 81) 1,2,4-Trichlorobenzene | 13.439 | 180 | 263006 | 9.363 | ppbv | | 98 |

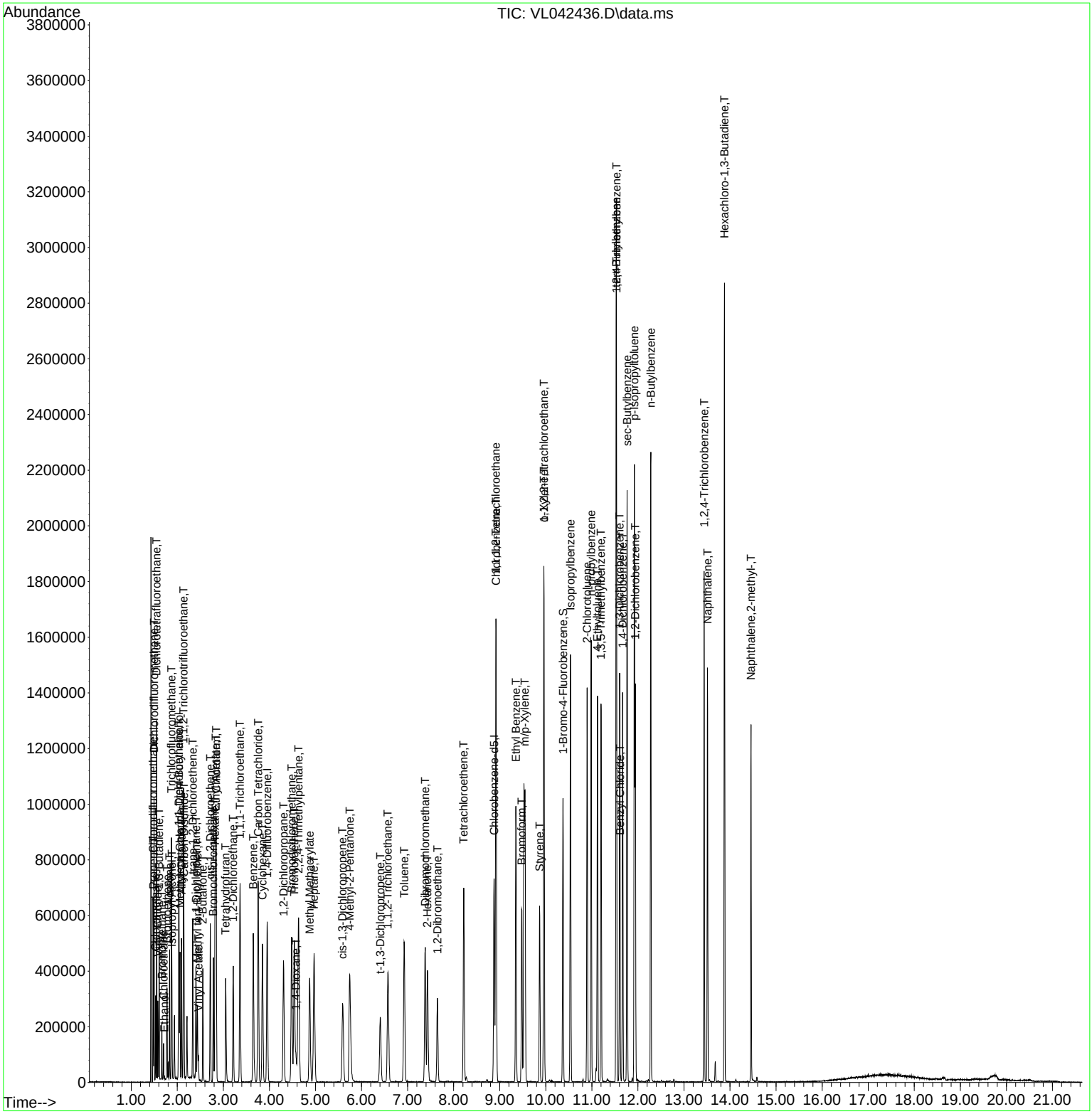
(#) = qualifier out of range (m) = manual integration (+) = signals summed

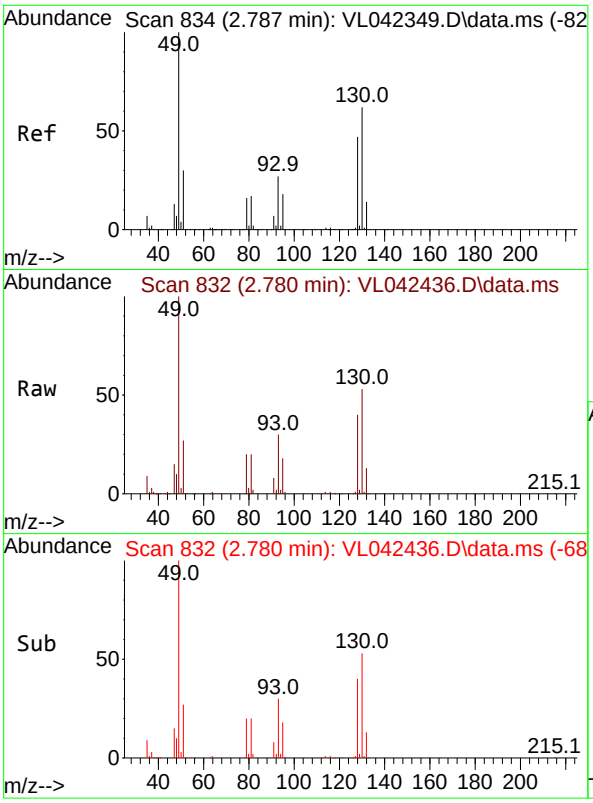
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
Data File : VL042436.D
Acq On : 29 Apr 2025 08:39
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Quant Time: Apr 30 01:15:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration



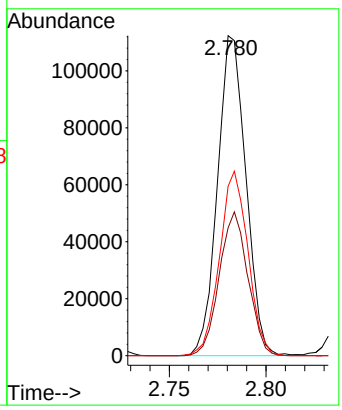


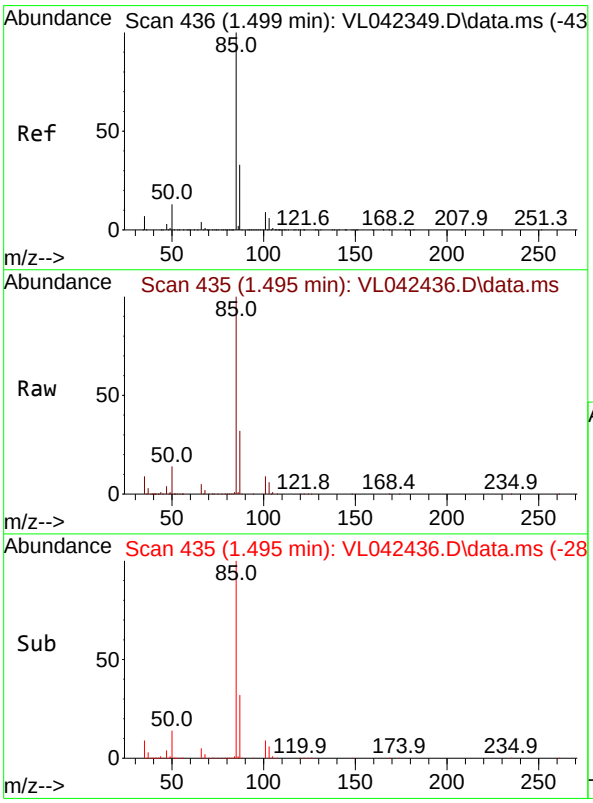

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.780 min Scan# 8
Delta R.T. -0.007 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 49 Resp: 114553

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 45.3 | 22.8 | 68.4 |
| 130 | 57.8 | 29.3 | 88.0 |

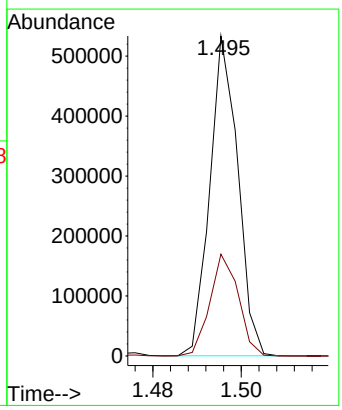


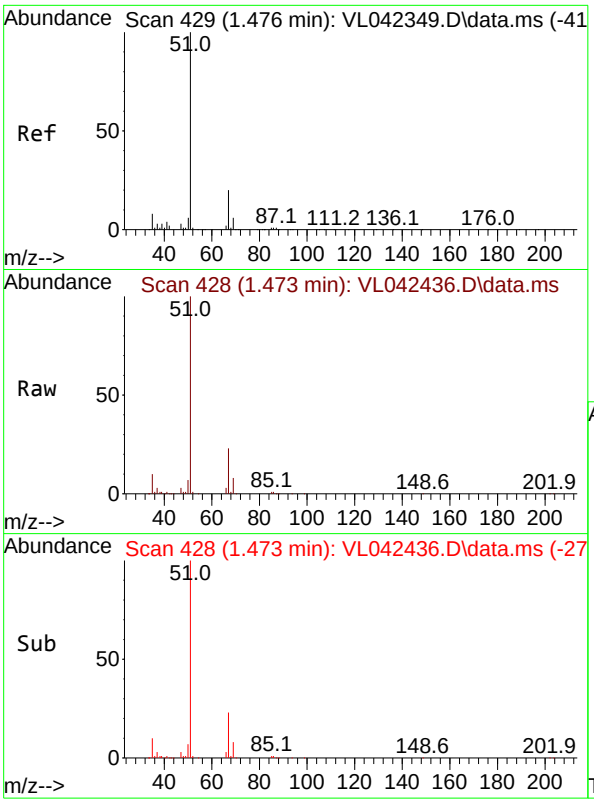




#2
Dichlorodifluoromethane
Concen: 11.603 ppbv
RT: 1.495 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 85 Resp: 234841

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.8 | 26.6 | 39.8 |



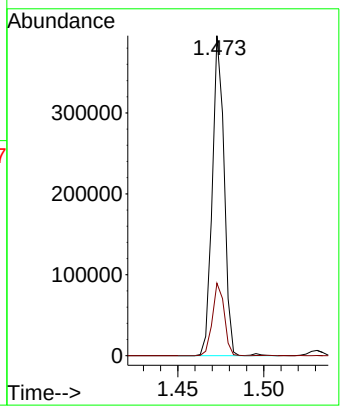


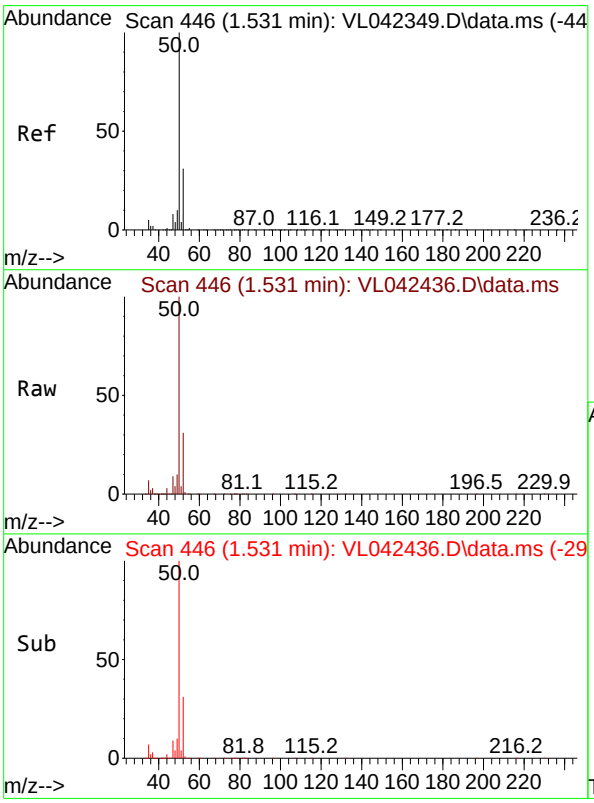

#3
Chlorodifluoromethane
Concen: 9.755 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 51 Resp: 188007

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 22.8 | 16.2 | 24.4 |

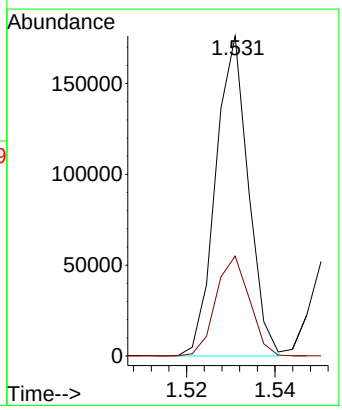


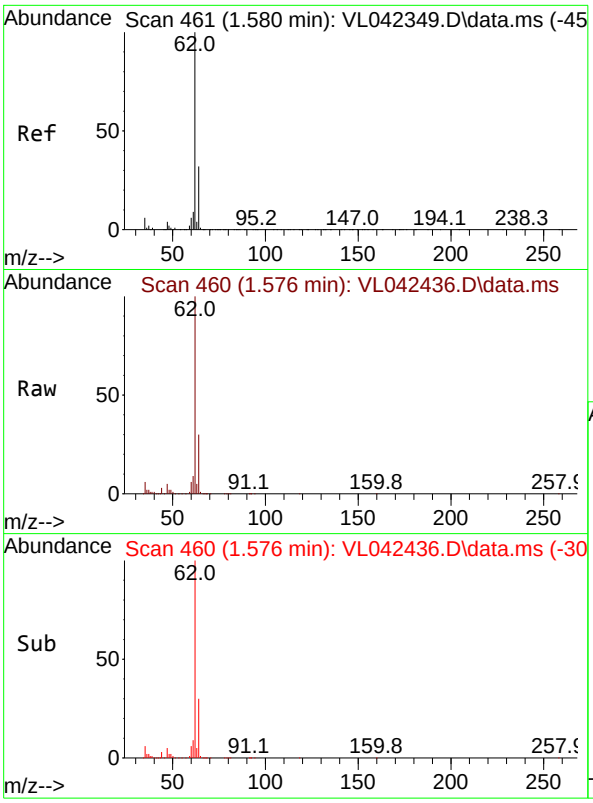




#4
Chloromethane
Concen: 11.274 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 50 Resp: 90298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 31.2 | 24.7 | 37.1 |



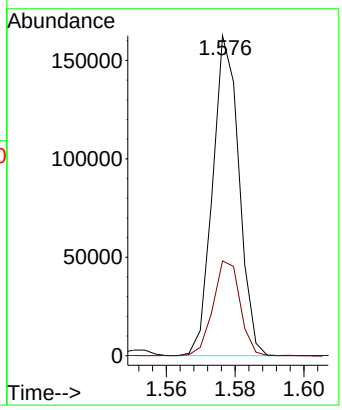


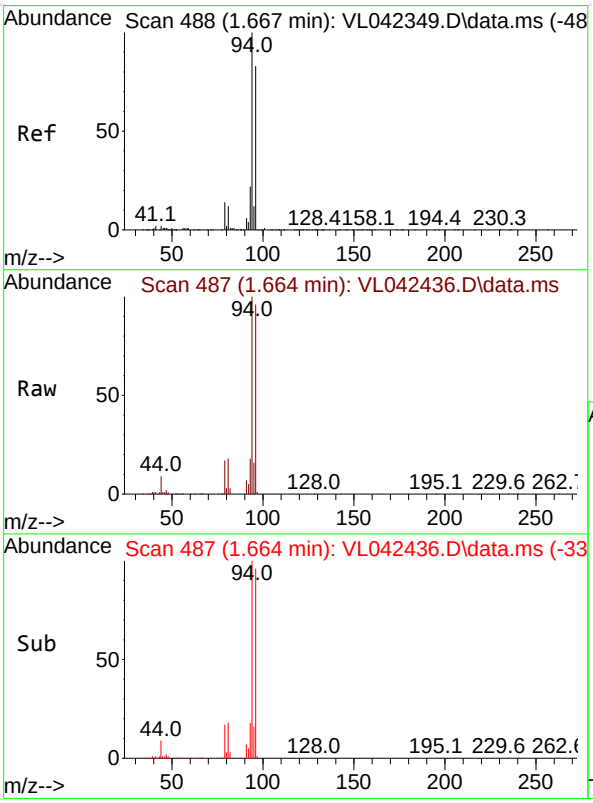

#5
Vinyl Chloride
Concen: 9.933 ppbv
RT: 1.576 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 62 Resp: 86603

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 29.6 | 25.4 | 38.0 |

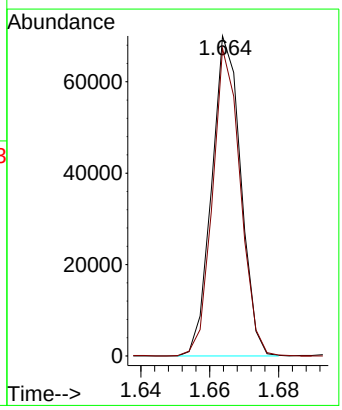


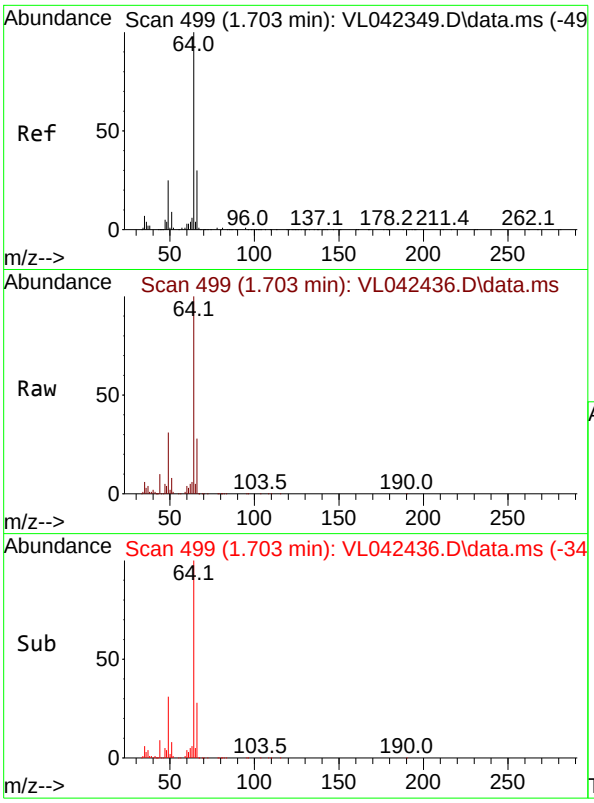




#6
Bromomethane
Concen: 10.952 ppbv
RT: 1.664 min Scan# 487
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 94 Resp: 41020

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 95.9 | 66.2 | 99.2 |



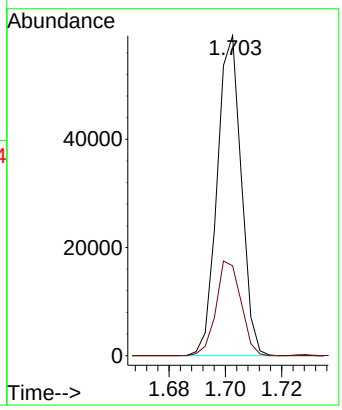


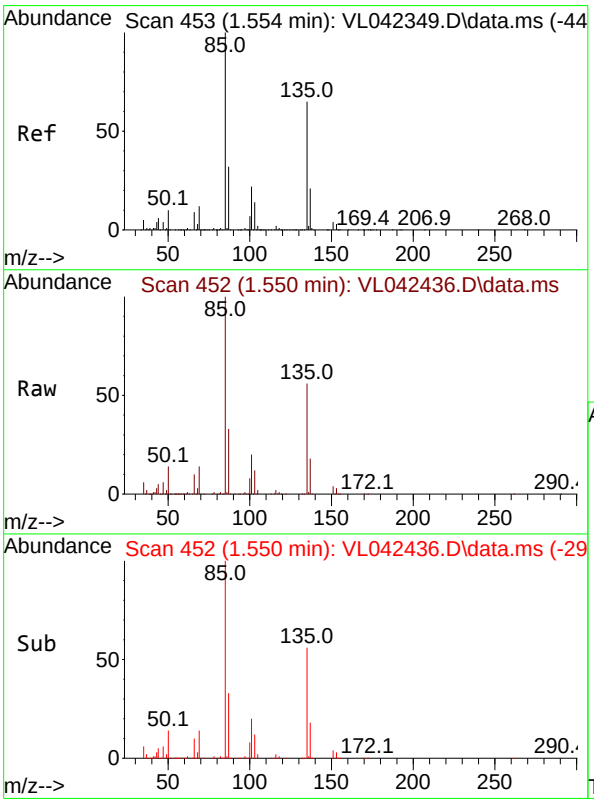

#7
Chloroethane
Concen: 11.153 ppbv
RT: 1.703 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 64 Resp: 35167

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 28.1 | 24.6 | 37.0 |

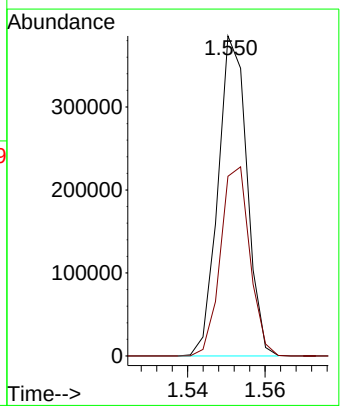


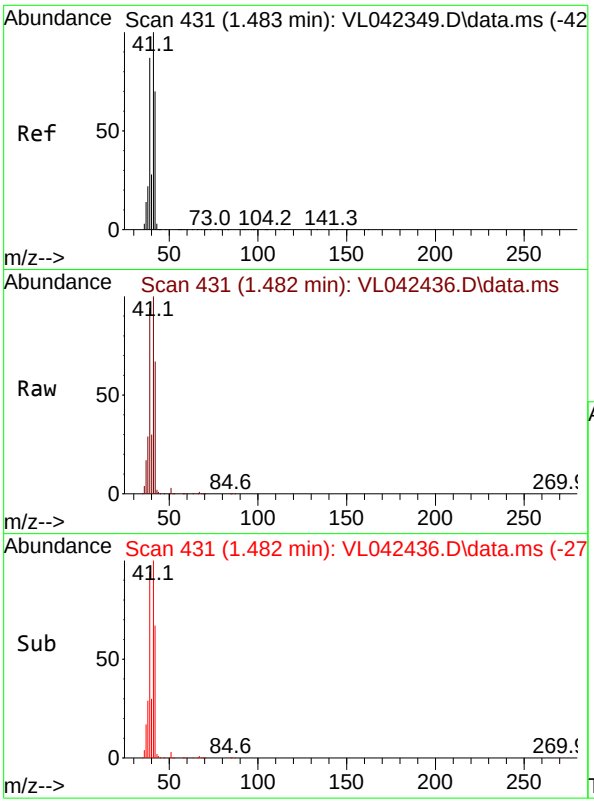




#8
Dichlorotetrafluoroethane
Concen: 11.508 ppbv
RT: 1.550 min Scan# 452
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 85 Resp: 199977

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 60.1 | 52.2 | 78.2 |



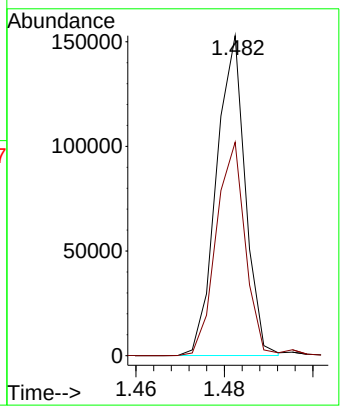


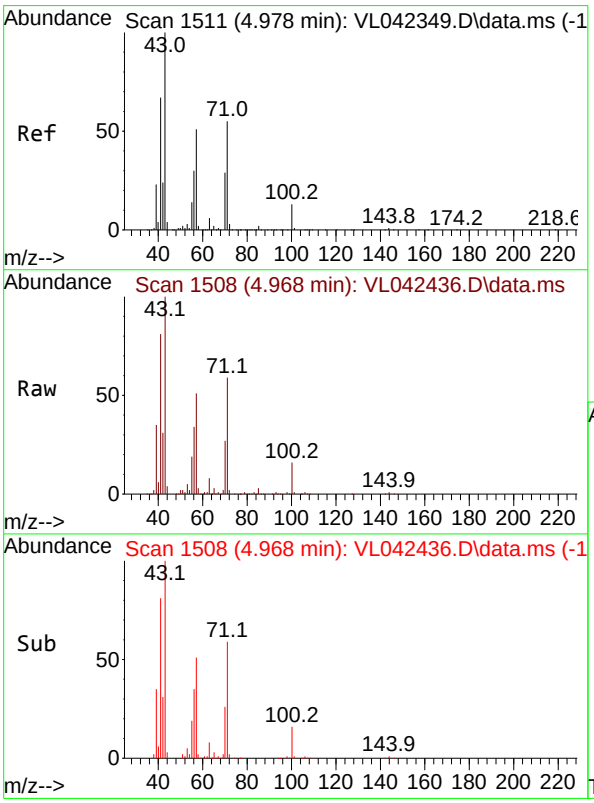

#9
Propene
Concen: 7.883 ppbv
RT: 1.482 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 41 Resp: 69189

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 68.7 | 56.2 | 84.4 |

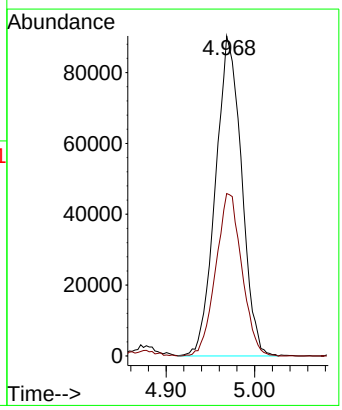


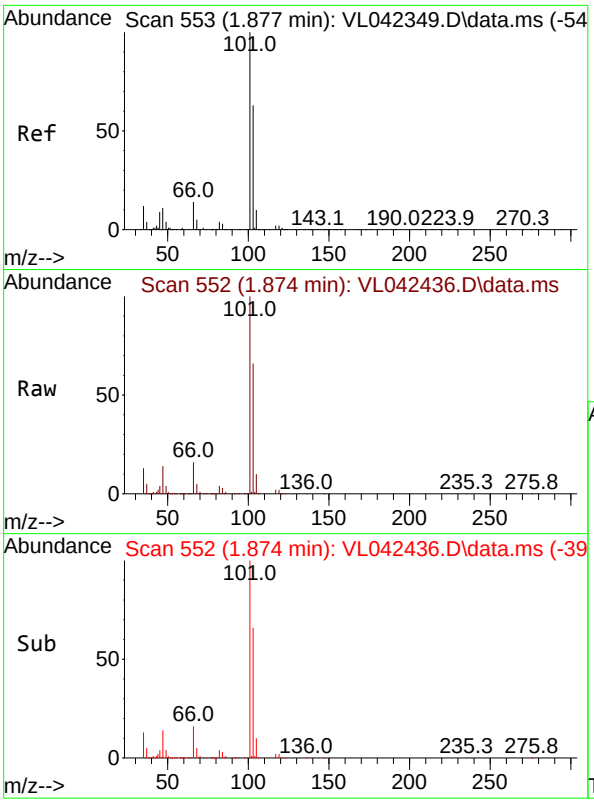




#10
Heptane
Concen: 7.492 ppbv
RT: 4.968 min Scan# 1508
Delta R.T. -0.010 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 43 Resp: 184737

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 50.9 | 39.9 | 59.9 |



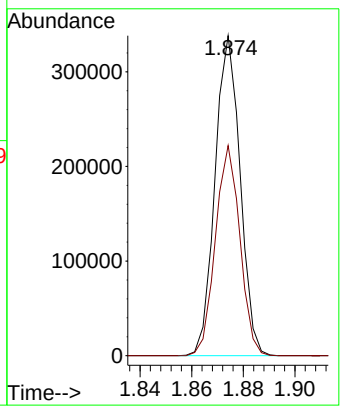


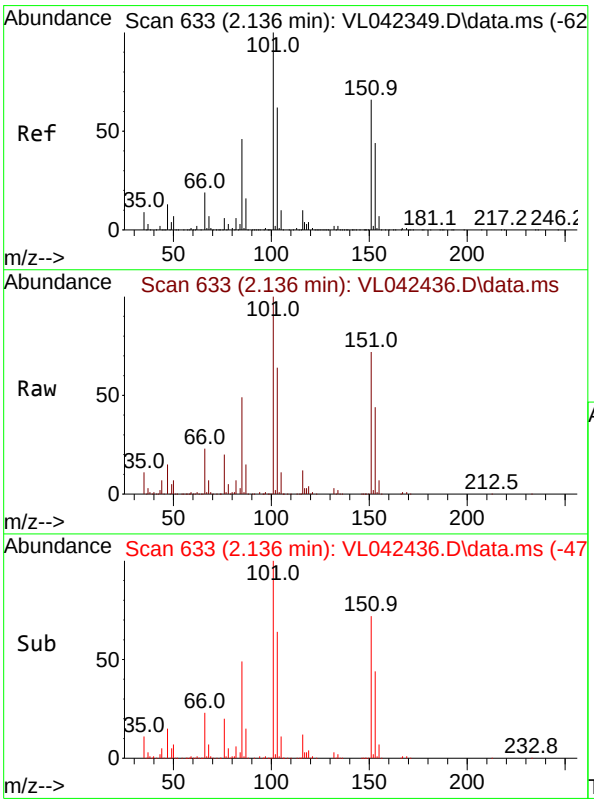

#11
Trichlorofluoromethane
Concen: 11.845 ppbv
RT: 1.874 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:101 Resp: 227979

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 65.6 | 50.1 | 75.1 |

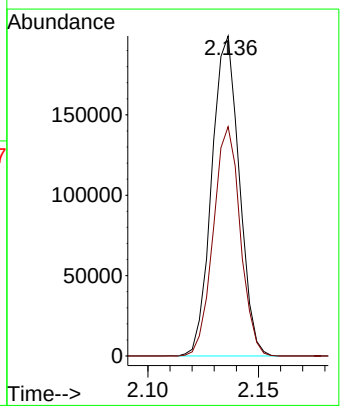


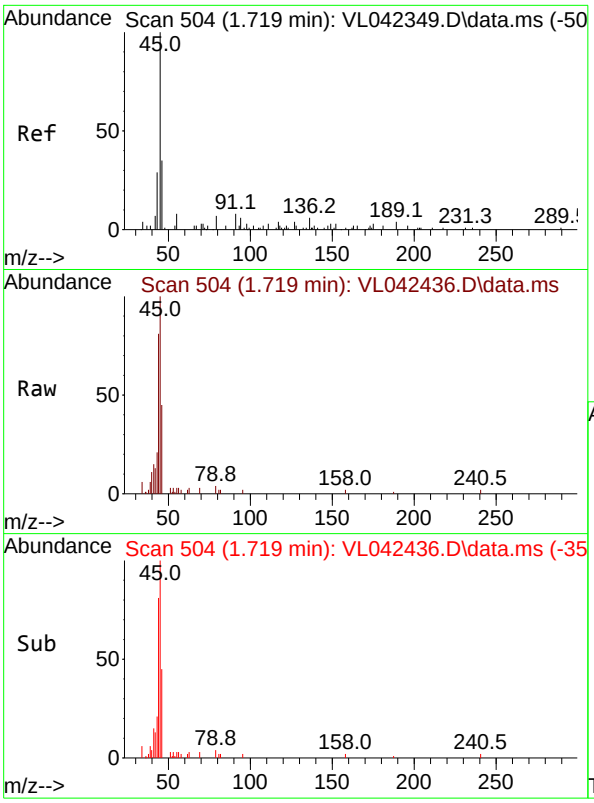




#12
1,1,2-Trichlorotrifluoroethane
Concen: 10.934 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion:101 Resp: 172070

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 70.1 | 57.0 | 85.6 |



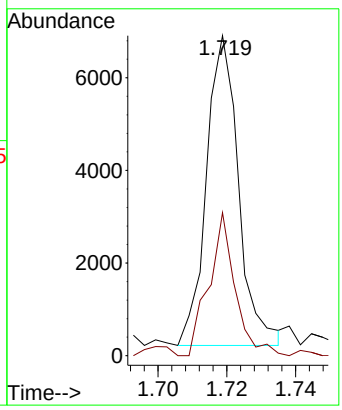


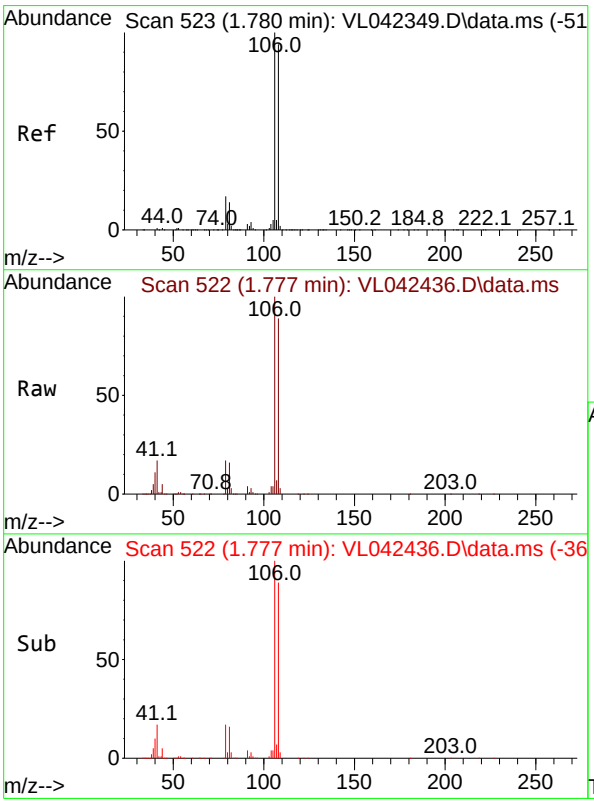

#13
Ethanol
Concen: 3.108 ppbv
RT: 1.719 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 45 Resp: 4336

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 41.1 | 21.9 | 87.7 |

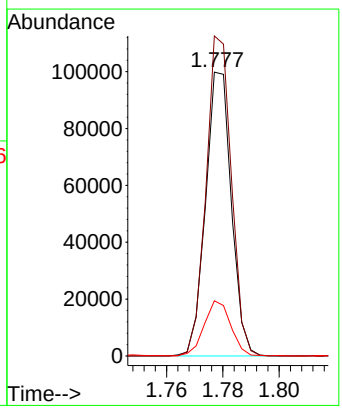


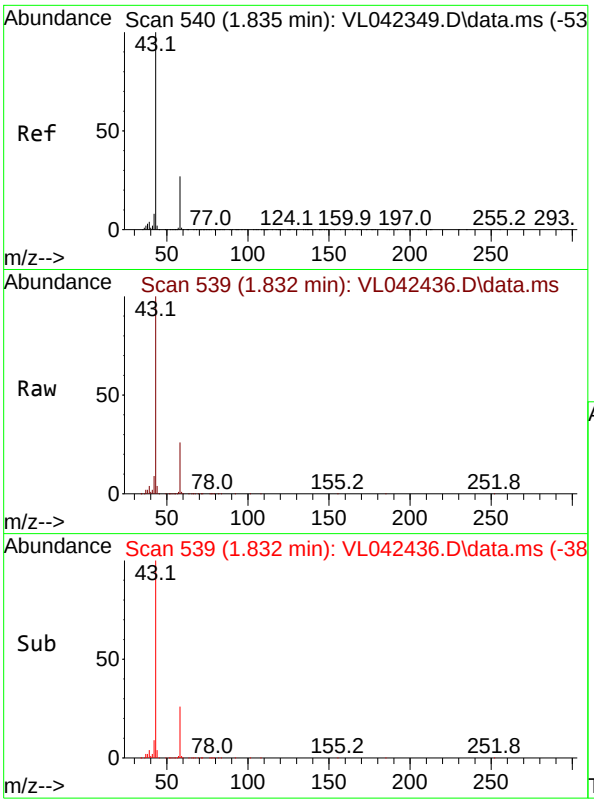




#14
Bromoethene
Concen: 10.721 ppbv
RT: 1.777 min Scan# 522
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion:108 Resp: 63597

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 106 | 110.4 | 85.9 | 128.9 |
| 79 | 20.1 | 13.9 | 20.9 |



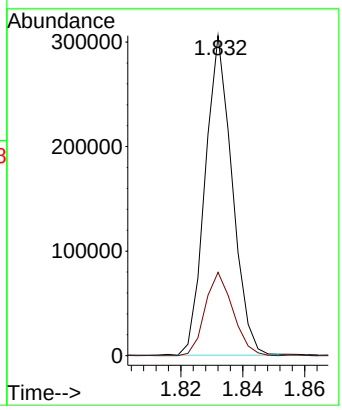


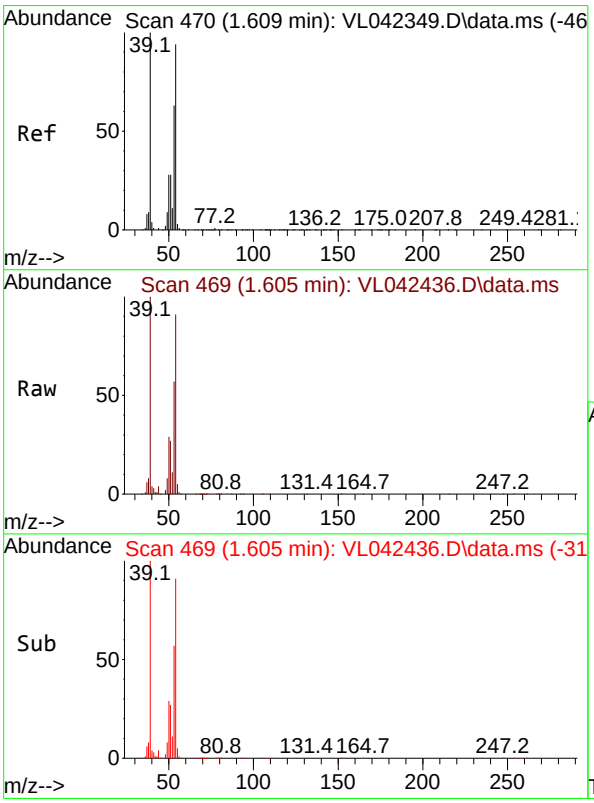

#15
Acetone
Concen: 9.859 ppbv
RT: 1.832 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 43 Resp: 184887

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 27.0 | 22.4 | 33.6 |

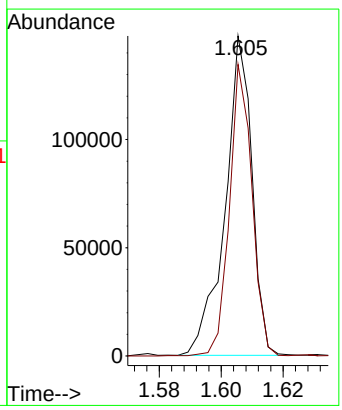


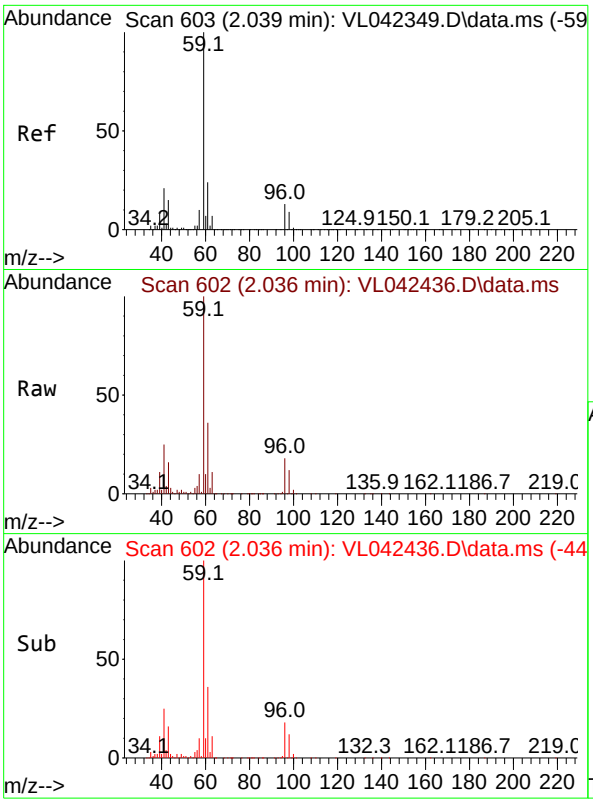




#16
1,3-Butadiene
Concen: 9.910 ppbv
RT: 1.605 min Scan# 469
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 39 Resp: 88889

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 76.7 | 64.9 | 97.3 |



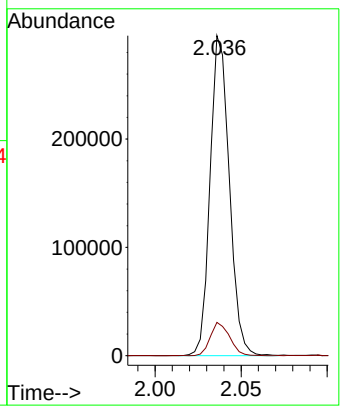


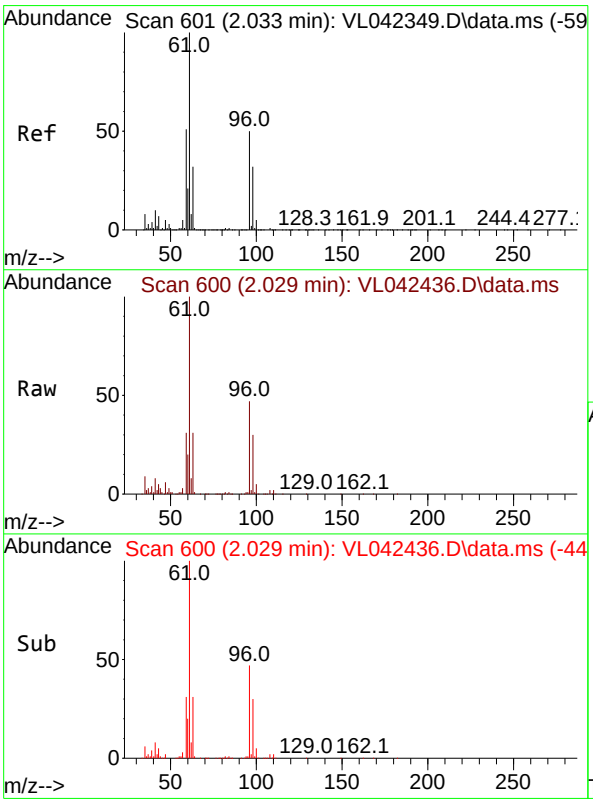

#17
tert-Butyl alcohol
Concen: 9.881 ppbv
RT: 2.036 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 59 Resp: 229627

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.4 | 8.7 | 13.1 |

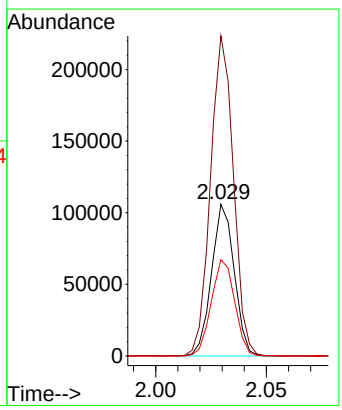


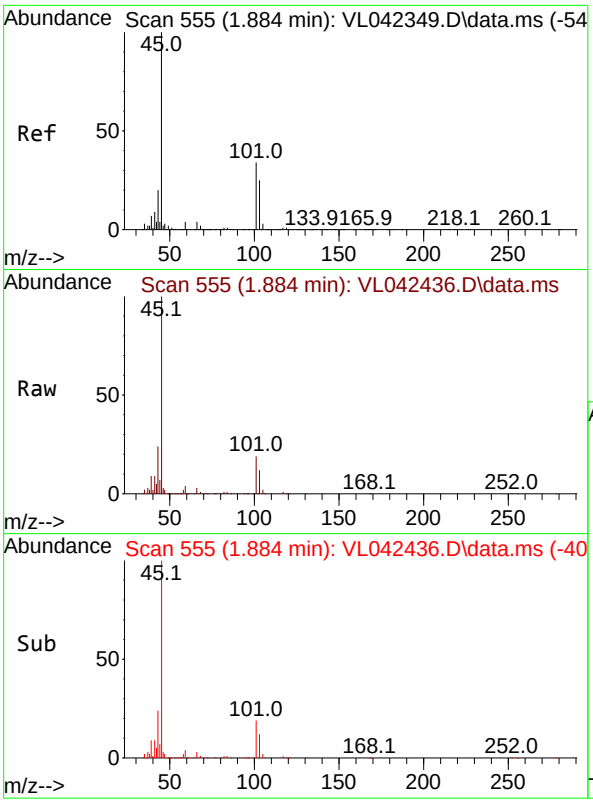




#18
1,1-Dichloroethene
Concen: 10.263 ppbv
RT: 2.029 min Scan# 600
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 96 Resp: 75451

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 211.2 | 160.2 | 240.2 |
| 98 | 63.6 | 51.0 | 76.4 |



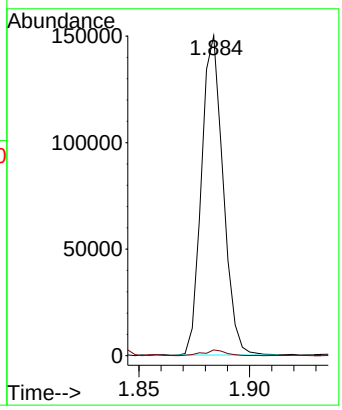


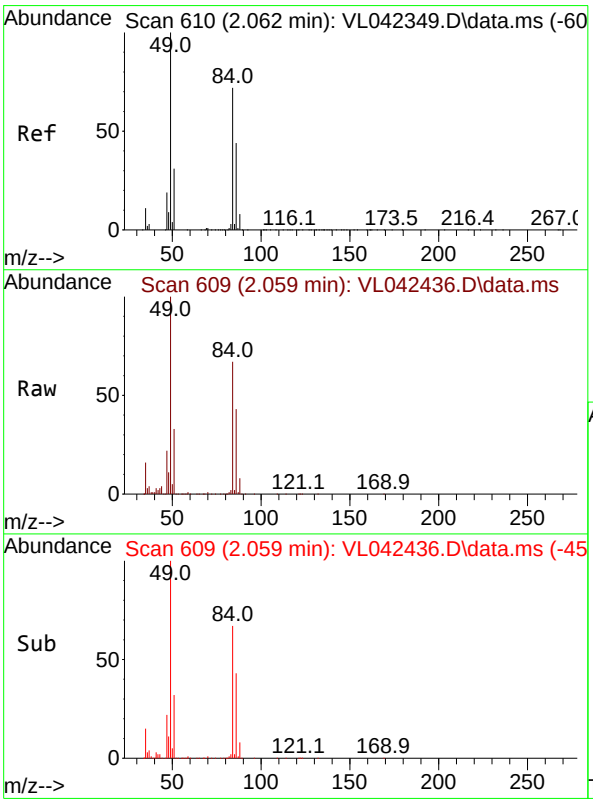

#19
Isopropyl Alcohol
Concen: 9.790 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 45 Resp: 101987

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 49.0 | 34.5 | 51.7 |

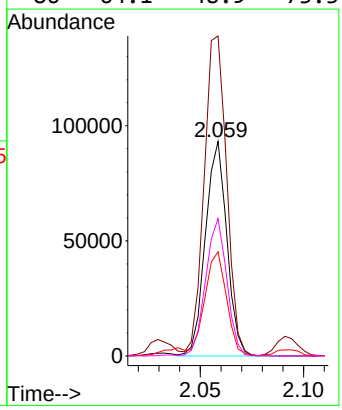


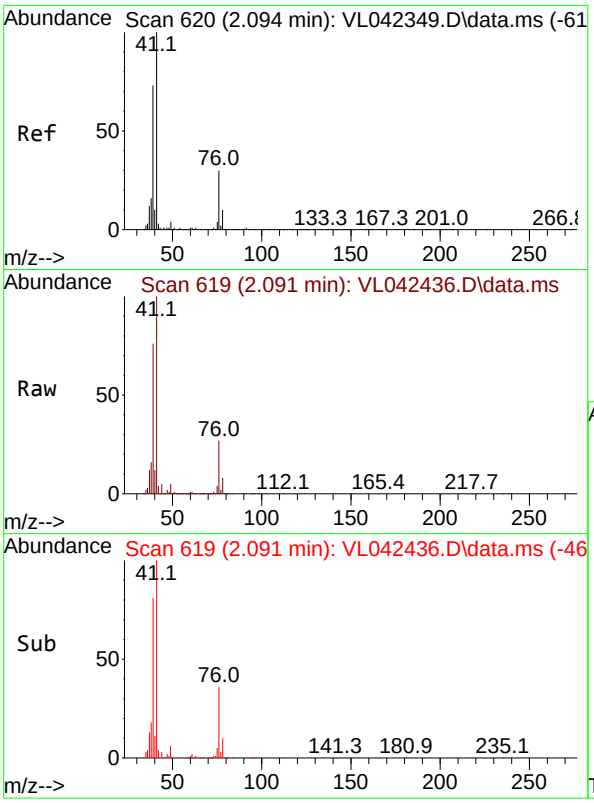




#20
Methylene Chloride
Concen: 9.161 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 84 Resp: 67278

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 146.9 | 111.6 | 167.4 |
| 51 | 45.9 | 35.1 | 52.7 |
| 86 | 64.1 | 48.9 | 73.3 |



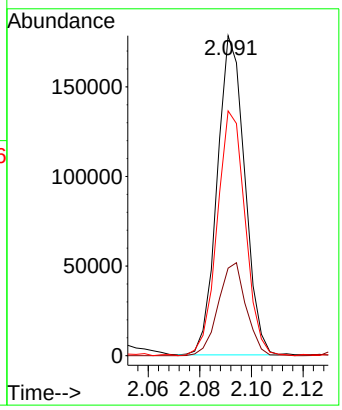


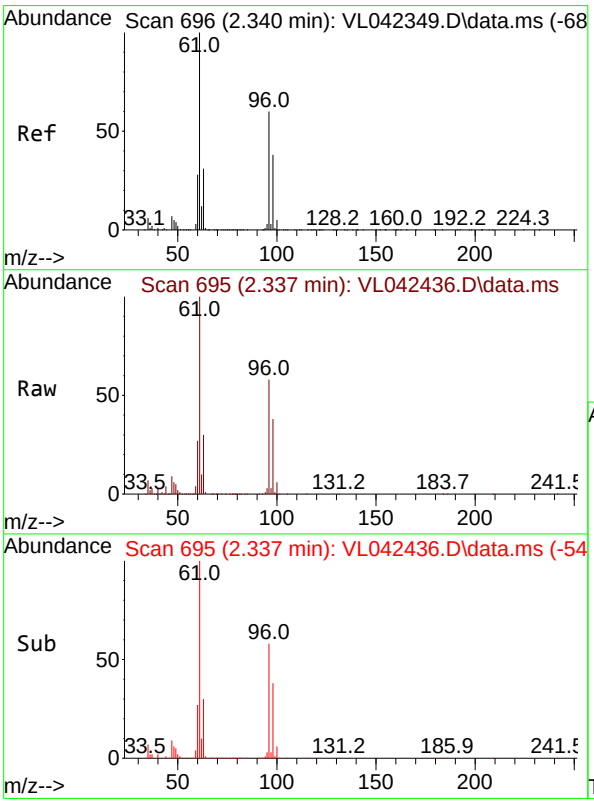

#21
Allyl Chloride
Concen: 10.184 ppbv
RT: 2.091 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 41 Resp: 131864

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 29.4 | 24.8 | 37.2 |
| 39 | 77.4 | 60.6 | 90.8 |

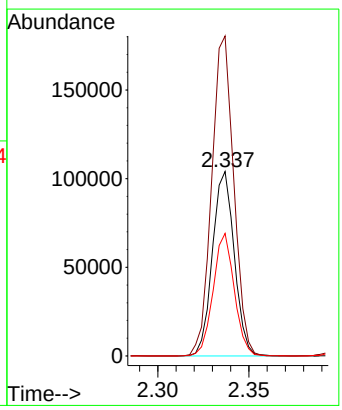


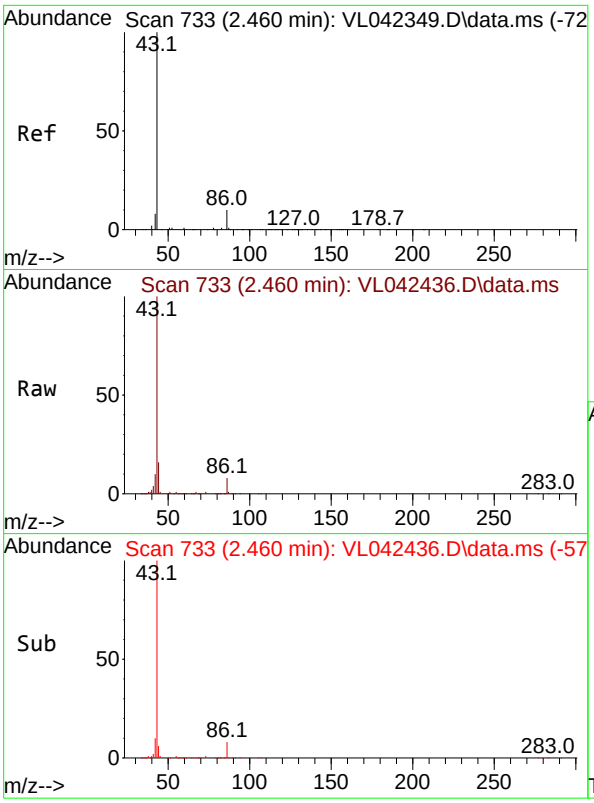




#22
trans-1,2-Dichloroethene
Concen: 10.343 ppbv
RT: 2.337 min Scan# 695
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 96 Resp: 86577

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 173.4 | 133.7 | 200.5 |
| 98 | 66.4 | 50.3 | 75.5 |



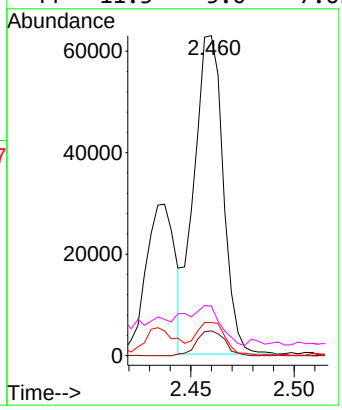


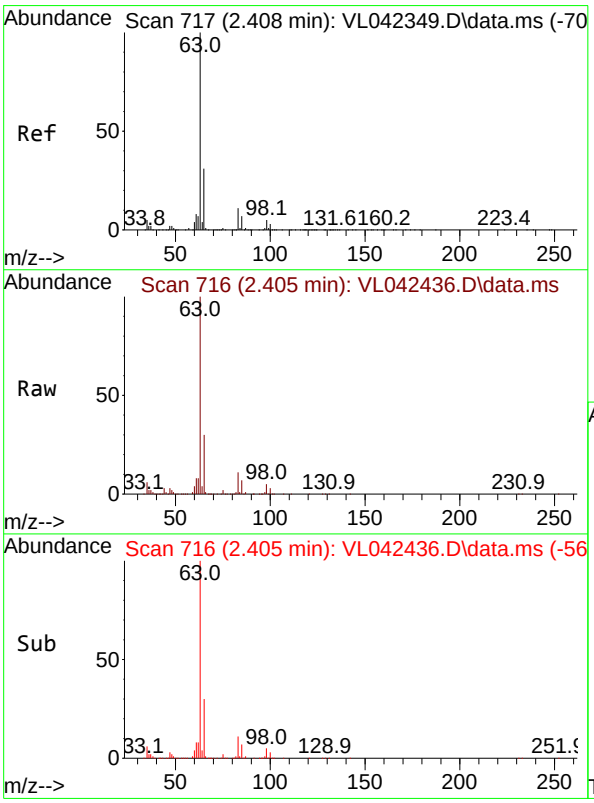

#23
Vinyl Acetate
Concen: 8.115 ppbv
RT: 2.460 min Scan# 7
Delta R.T. -0.000 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 43 Resp: 61601

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 7.6 | 6.5 | 9.7 |
| 42 | 10.2 | 7.8 | 11.8 |
| 44 | 11.3 | 5.0 | 7.6# |

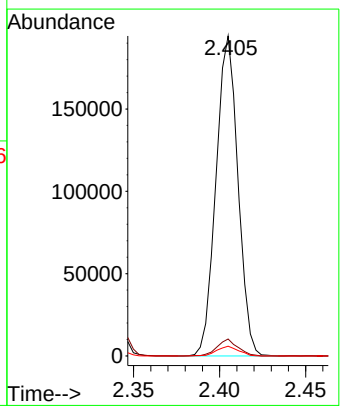


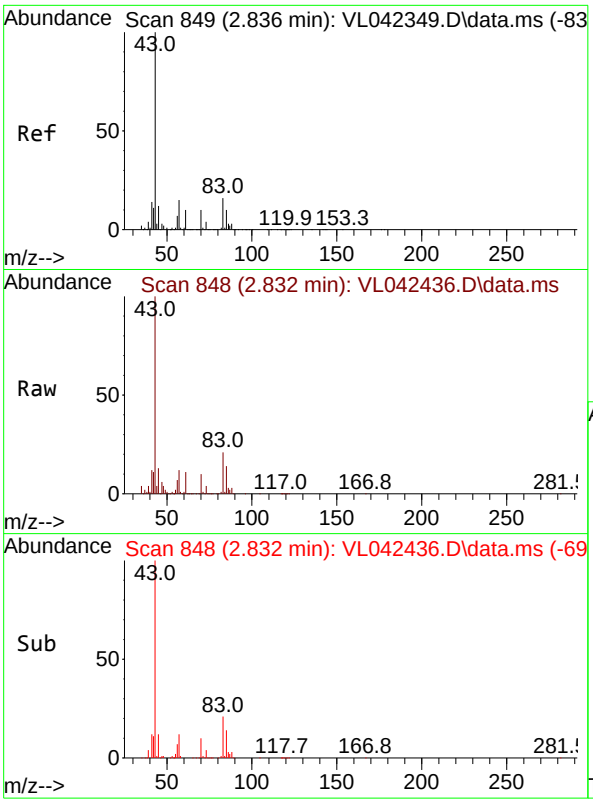




#24
1,1-Dichloroethane
Concen: 10.852 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 63 Resp: 172555

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 5.3 | 2.3 | 6.8 |
| 100 | 3.0 | 1.6 | 4.8 |



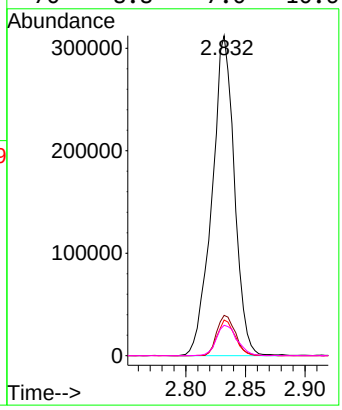


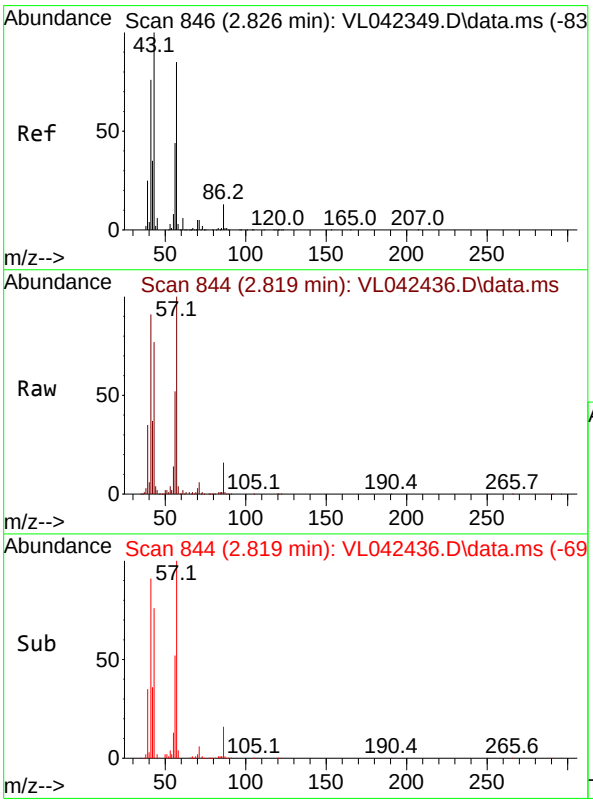

#25
Ethyl Acetate
Concen: 8.840 ppbv
RT: 2.832 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 43 Resp: 408744

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 10.5 | 8.3 | 12.5 |
| 61 | 8.9 | 7.3 | 10.9 |
| 70 | 8.8 | 7.0 | 10.6 |

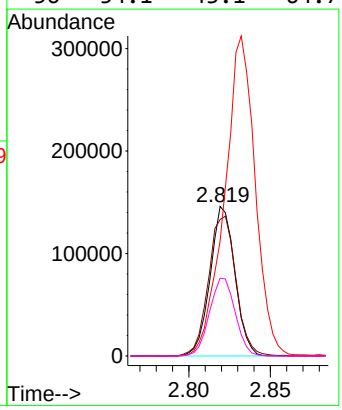


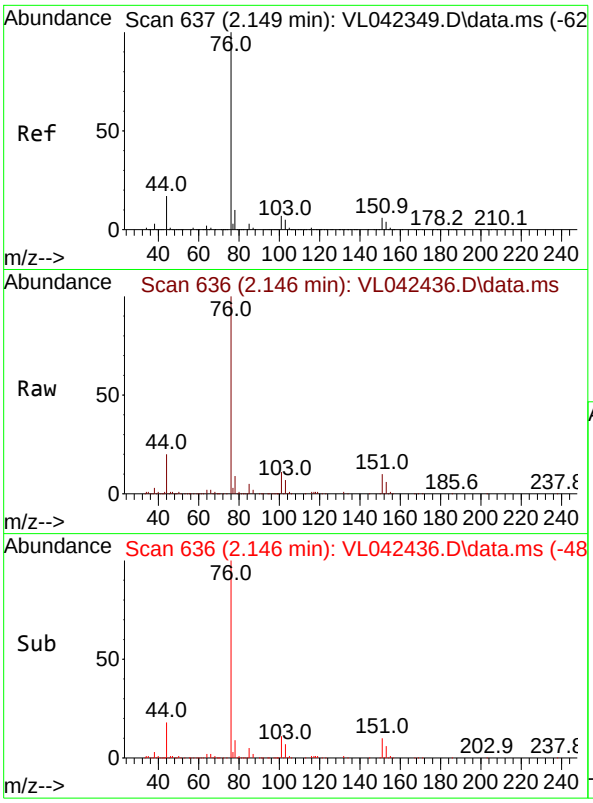




#26
Hexane
Concen: 8.220 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.007 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 57 Resp: 153801

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 104.3 | 77.9 | 116.9 |
| 43 | 266.3 | 208.4 | 312.6 |
| 56 | 54.1 | 43.1 | 64.7 |



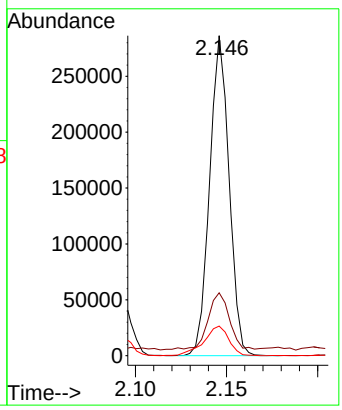


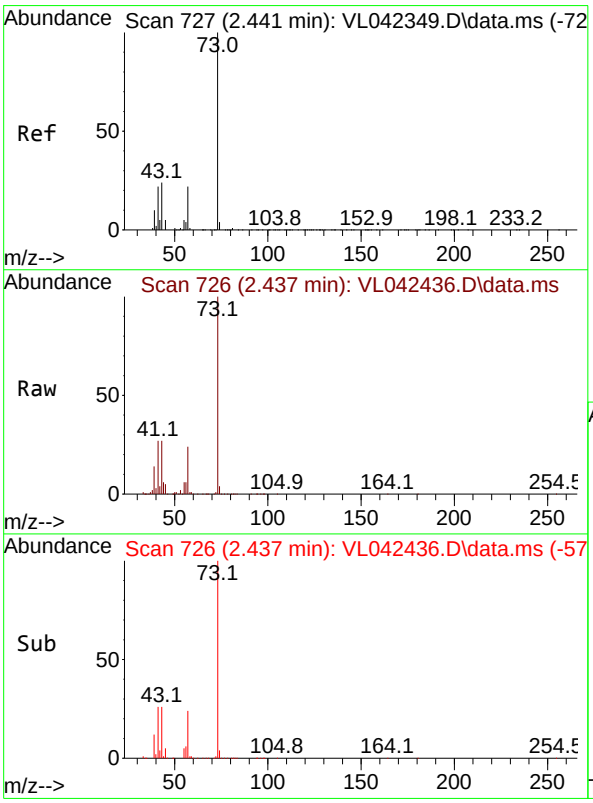

#27
Carbon Disulfide
Concen: 10.622 ppbv
RT: 2.146 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 76 Resp: 212793

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 18.9 | 15.5 | 23.3 |
| 78 | 11.9 | 9.3 | 13.9 |

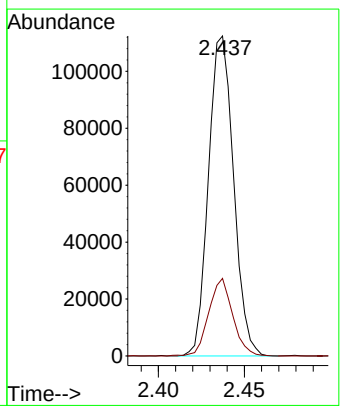


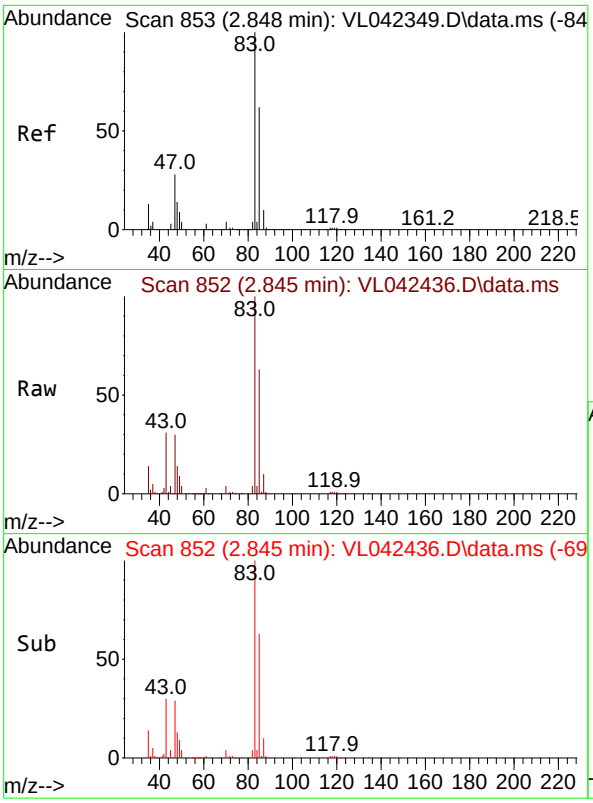




#28
Methyl tert-Butyl Ether
Concen: 9.308 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 73 Resp: 114108

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 23.1 | 21.3 | 31.9 |



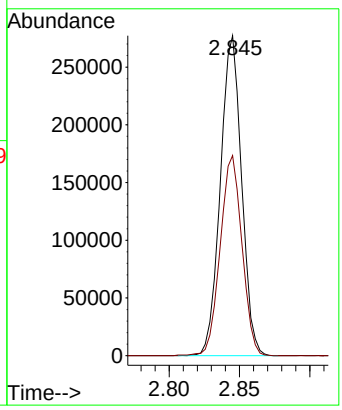


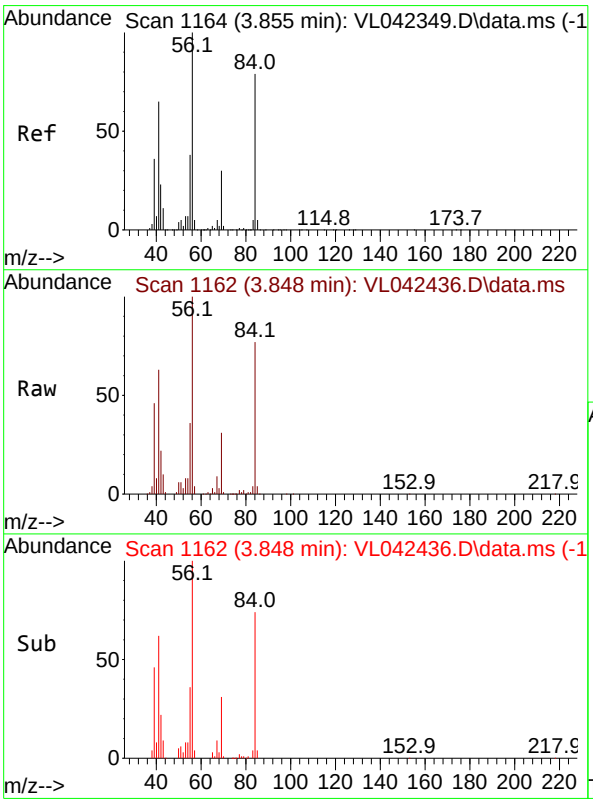

#29
Chloroform
Concen: 11.002 ppbv
RT: 2.845 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 83 Resp: 290965

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.6 | 50.0 | 75.0 |

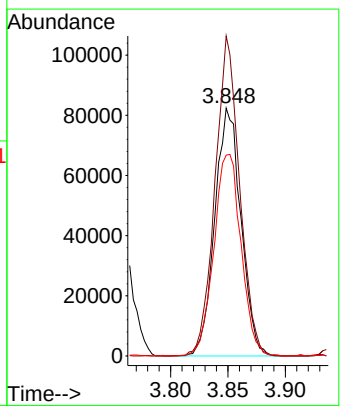


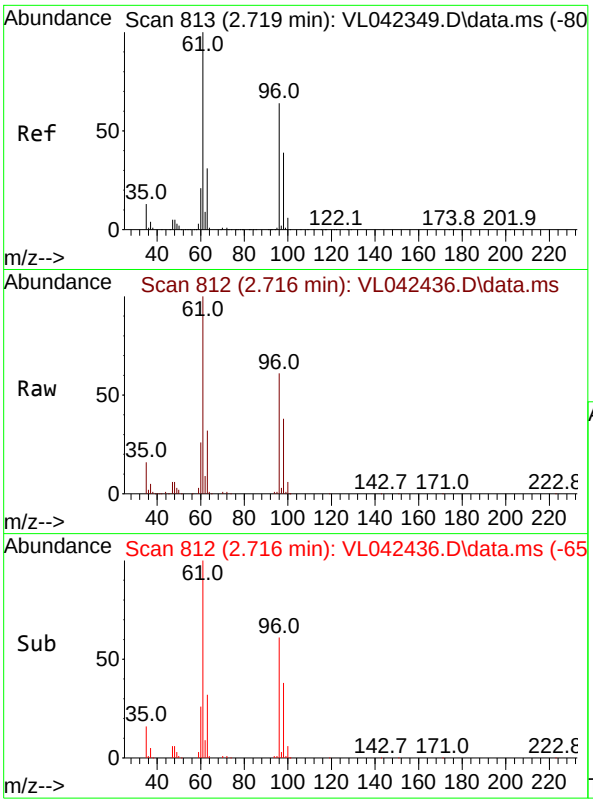




#30
Cyclohexane
Concen: 8.635 ppbv
RT: 3.848 min Scan# 1162
Delta R.T. -0.007 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 84 Resp: 130608

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 121.2 | 101.0 | 151.4 |
| 41 | 84.8 | 67.4 | 101.0 |



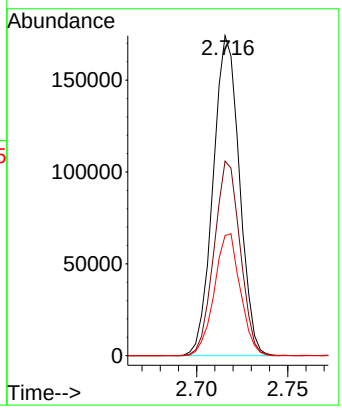


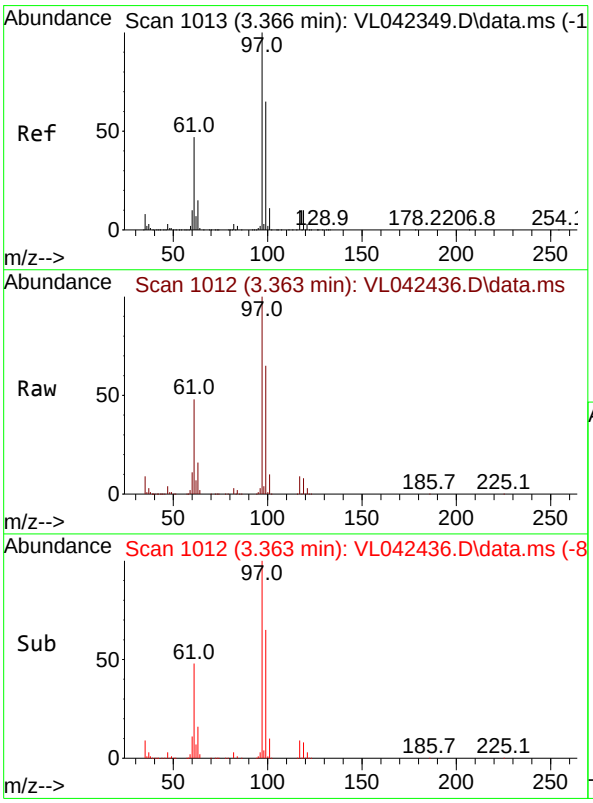

#31
cis-1,2-Dichloroethene
Concen: 9.818 ppbv
RT: 2.716 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 61 Resp: 174659

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 60.8 | 50.8 | 76.2 |
| 98 | 37.6 | 30.9 | 46.3 |

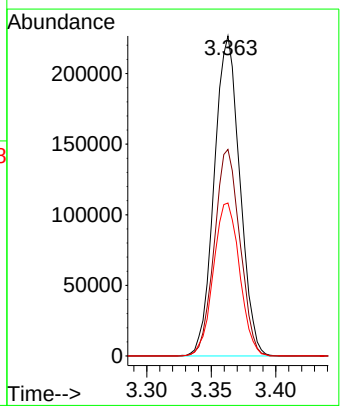


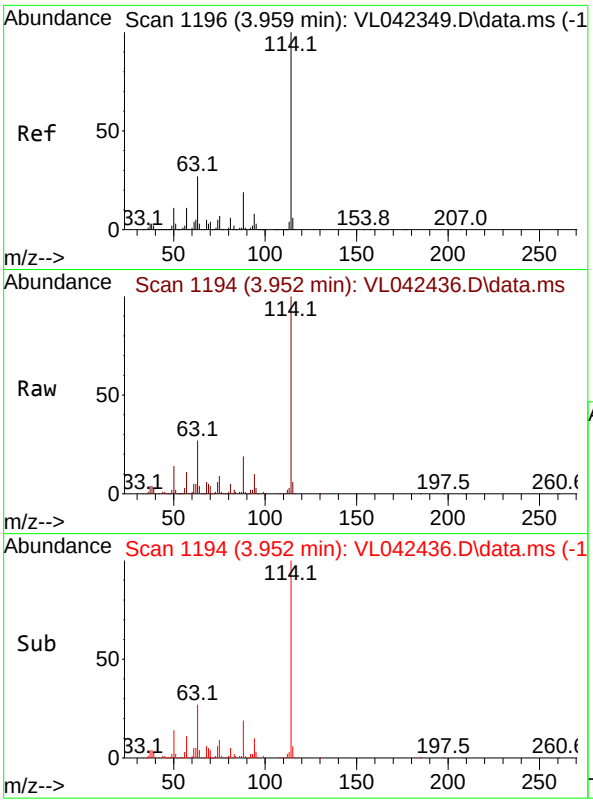




#32
1,1,1-Trichloroethane
Concen: 10.493 ppbv
RT: 3.363 min Scan# 1012
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 97 Resp: 312430

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.5 | 51.0 | 76.4 |
| 61 | 49.1 | 38.8 | 58.2 |



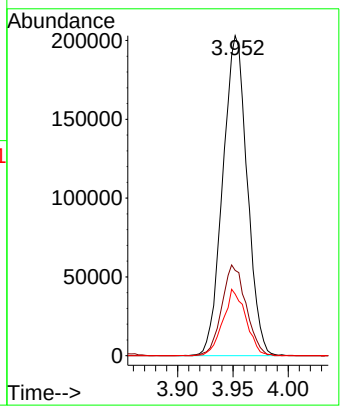


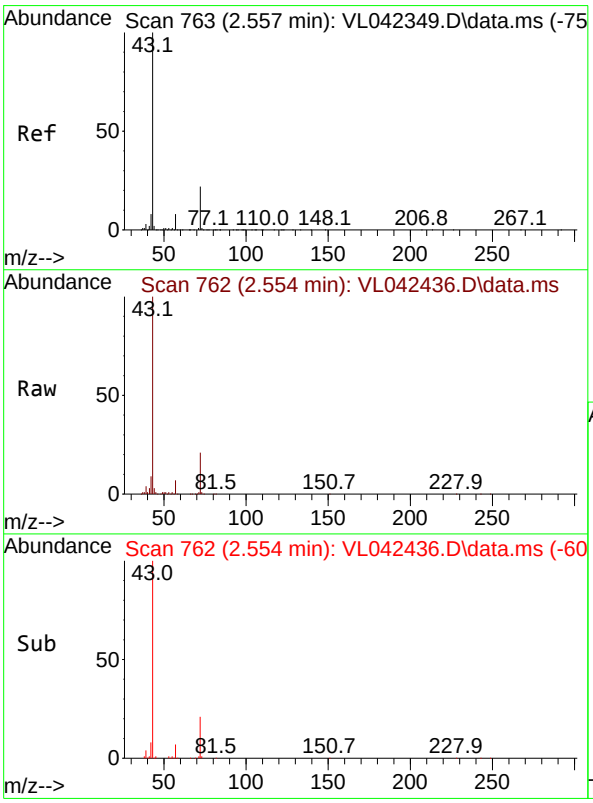

#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 11
Delta R.T. -0.007 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:114 Resp: 311268

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 28.3 | 21.8 | 32.6 |
| 88 | 19.5 | 15.5 | 23.3 |

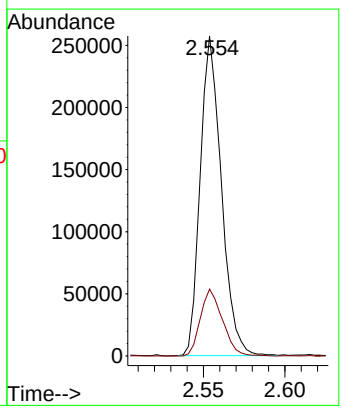


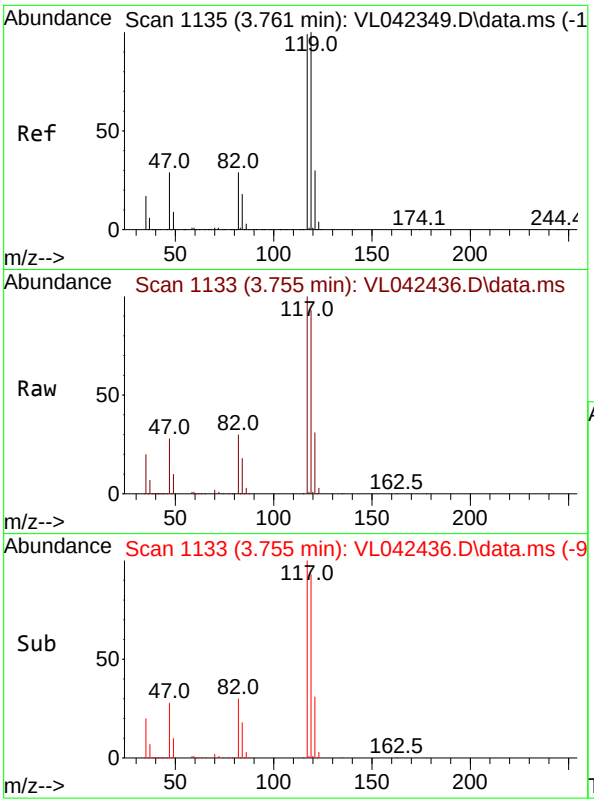




#34
2-Butanone
Concen: 9.426 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 43 Resp: 232034

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 21.8 | 18.2 | 27.2 |



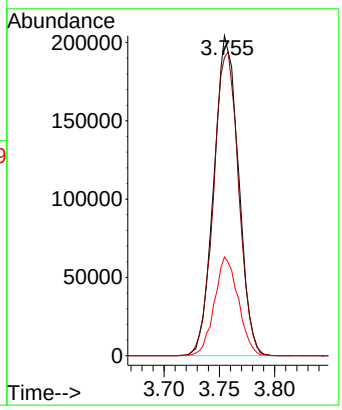


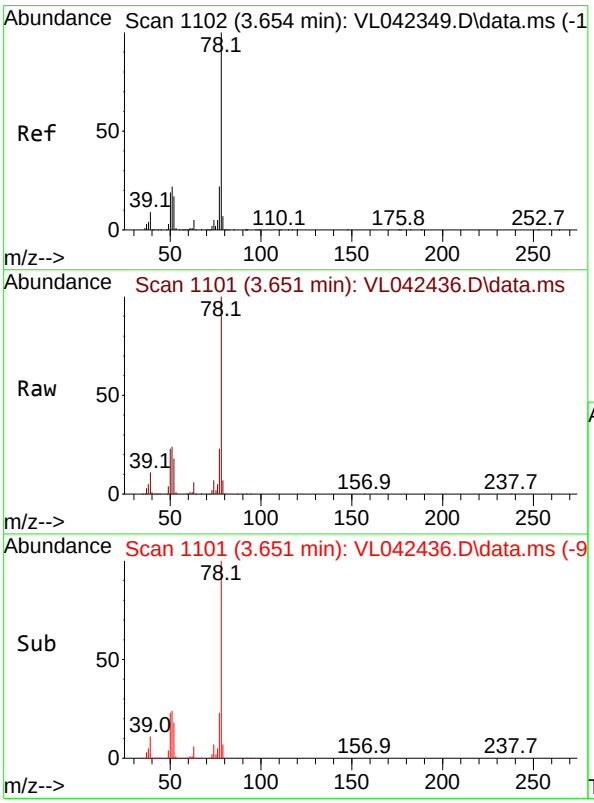

#35
Carbon Tetrachloride
Concen: 11.242 ppbv
RT: 3.755 min Scan# 1
Delta R.T. -0.007 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:117 Resp: 316689

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 93.1 | 80.5 | 120.7 |
| 121 | 30.9 | 24.2 | 36.2 |

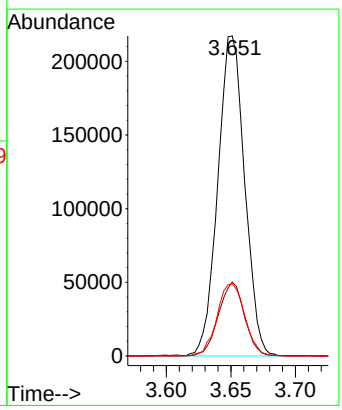


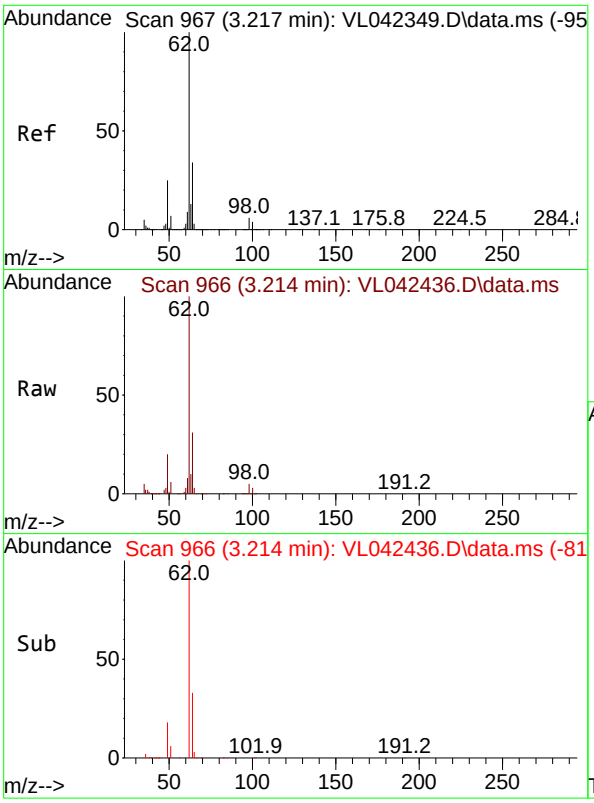




#36
Benzene
Concen: 9.367 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 78 Resp: 314493

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.1 | 17.4 | 26.0 |
| 50 | 22.6 | 15.5 | 23.3 |



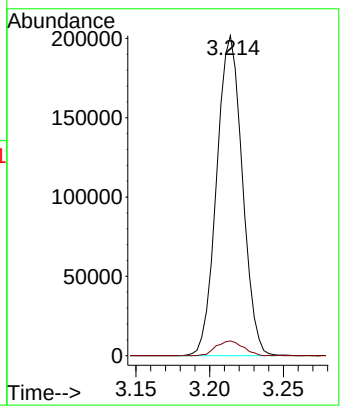


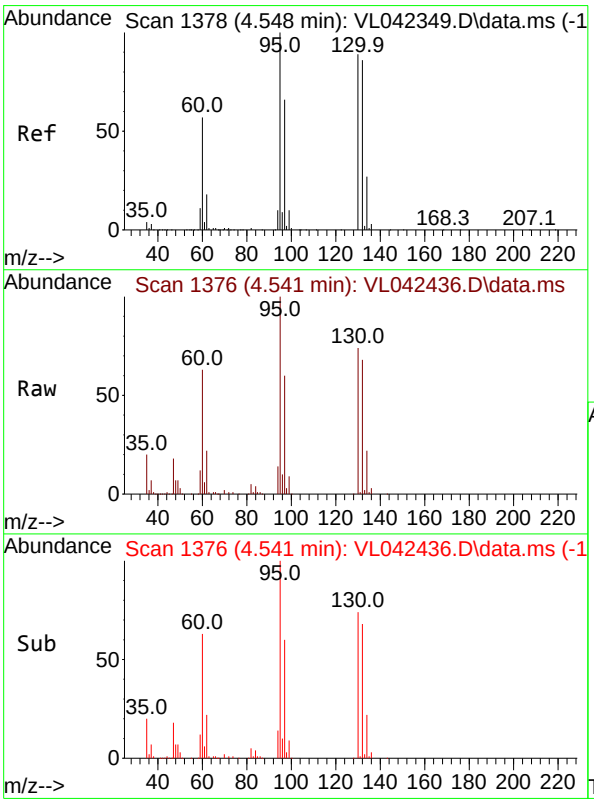

#37
1,2-Dichloroethane
Concen: 12.134 ppbv
RT: 3.214 min Scan# 9
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 62 Resp: 244516

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 4.9 | 5.1 | 7.7# |

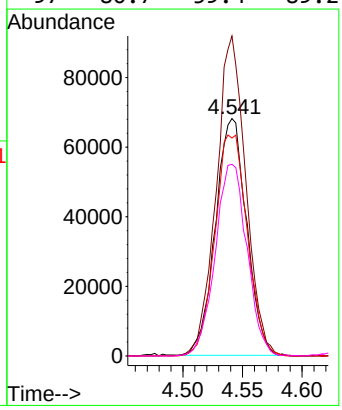


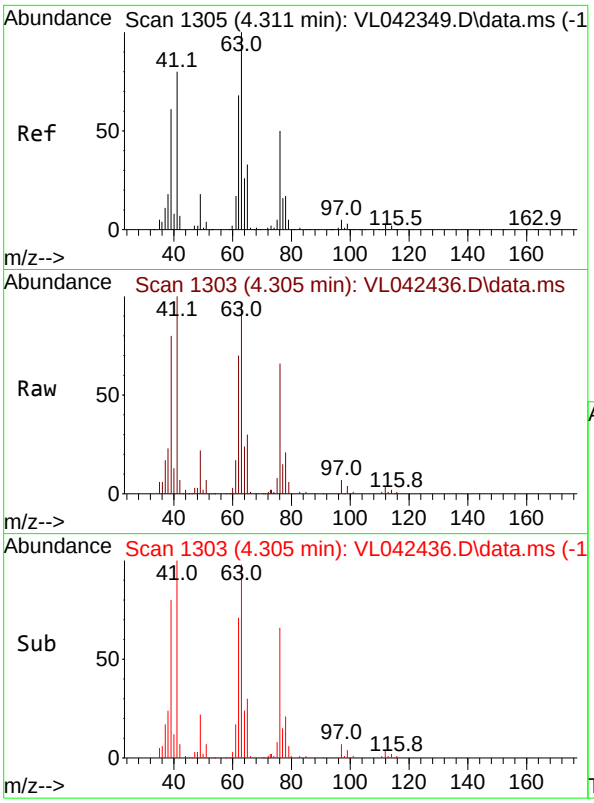




#38
Trichloroethene
Concen: 8.450 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. -0.007 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion:130 Resp: 123997

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 134.8 | 89.8 | 134.6# |
| 132 | 92.0 | 77.7 | 116.5 |
| 97 | 80.7 | 59.4 | 89.2 |



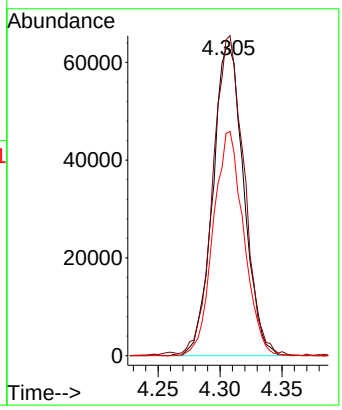


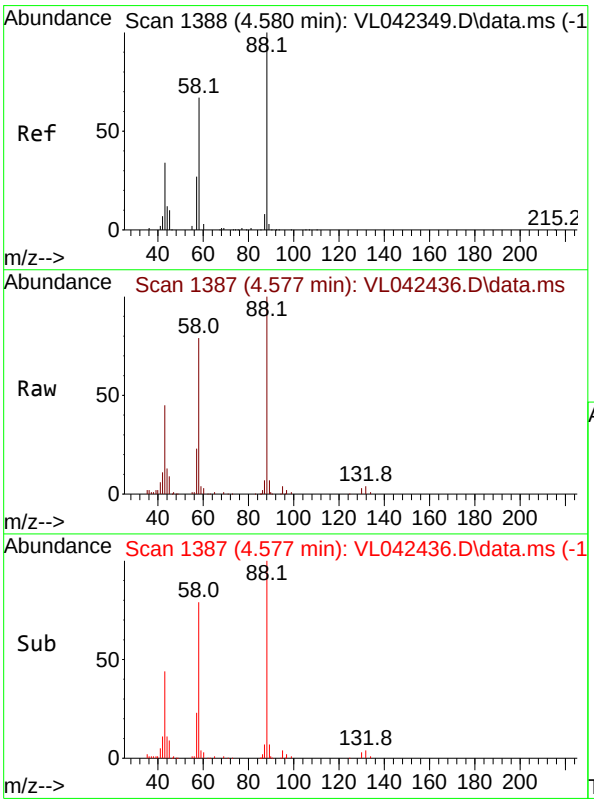

#39
1,2-Dichloropropane
Concen: 8.817 ppbv
RT: 4.305 min Scan# 1
Delta R.T. -0.007 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 63 Resp: 110315

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 102.2 | 64.2 | 96.2# |
| 62 | 72.1 | 54.3 | 81.5 |

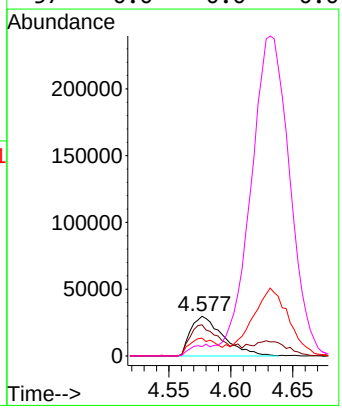


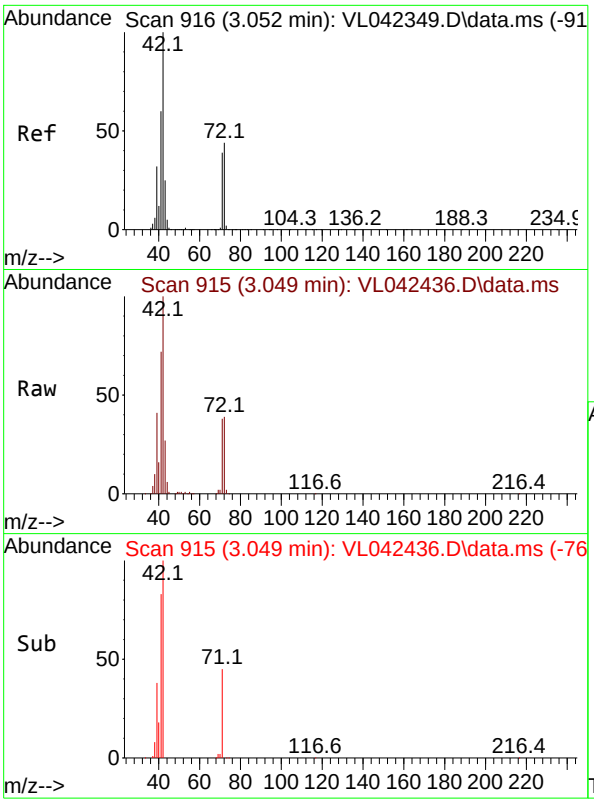




#40
1,4-Dioxane
Concen: 7.907 ppbv
RT: 4.577 min Scan# 1387
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 88 Resp: 54364

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 81.3 | 61.4 | 92.0 |
| 43 | 40.1 | 23.2 | 34.8# |
| 57 | 0.0 | 0.0 | 0.0 |



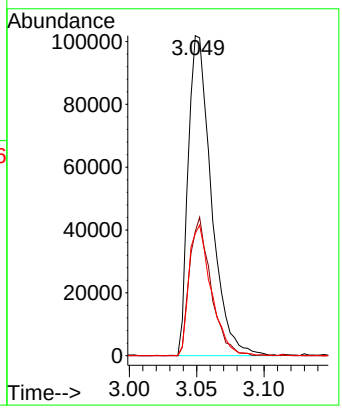


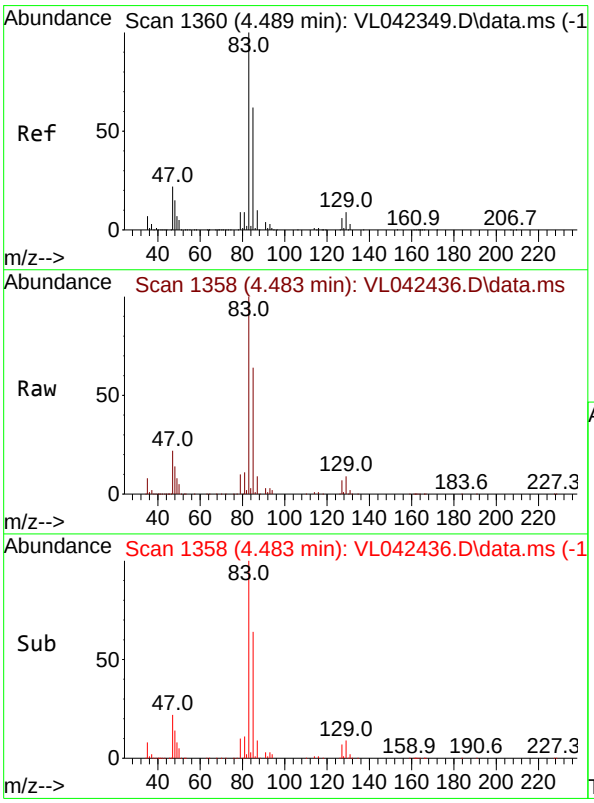

#41
Tetrahydrofuran
Concen: 8.479 ppbv
RT: 3.049 min Scan# 9
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 42 Resp: 121700

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 40.2 | 32.3 | 48.5 |
| 71 | 39.5 | 31.4 | 47.2 |

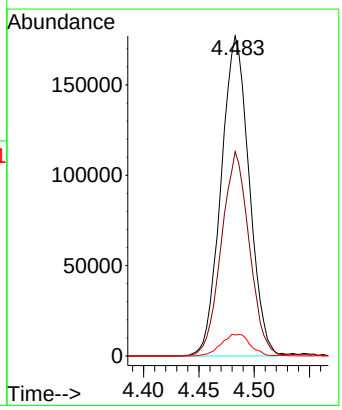


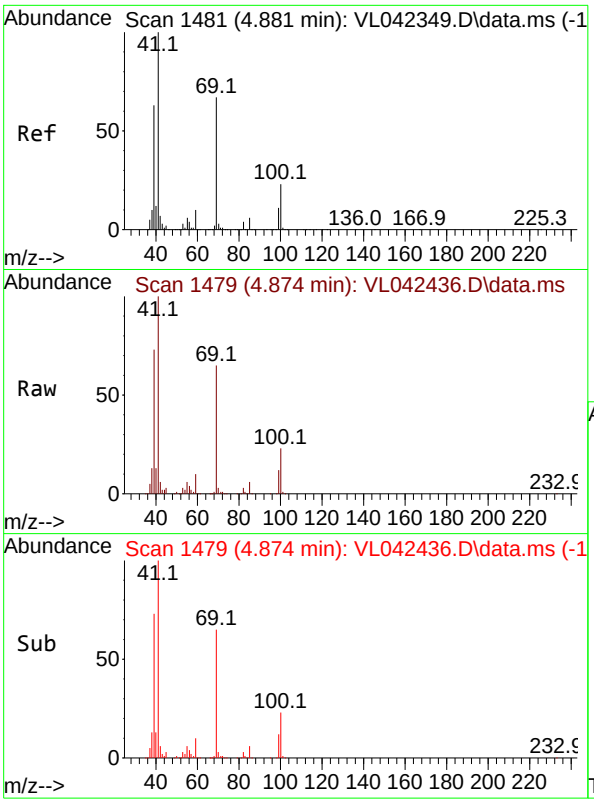




#42
Bromodichloromethane
Concen: 11.127 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. -0.007 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 83 Resp: 312029

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.8 | 49.7 | 74.5 |
| 127 | 6.6 | 5.1 | 7.7 |



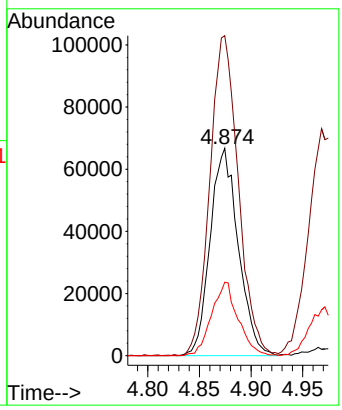


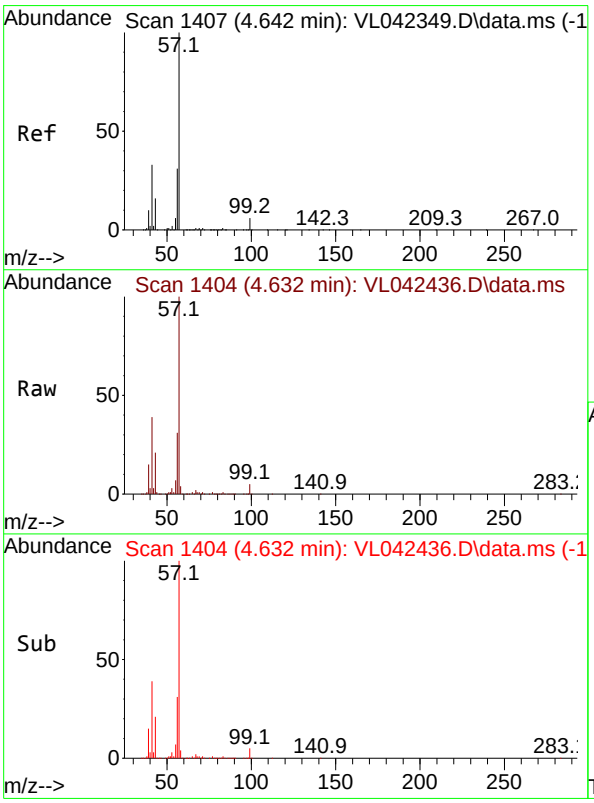

#43
Methyl Methacrylate
Concen: 8.367 ppbv
RT: 4.874 min Scan# 14
Delta R.T. -0.007 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 69 Resp: 126594

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 156.3 | 118.6 | 177.8 |
| 100 | 33.3 | 28.2 | 42.2 |

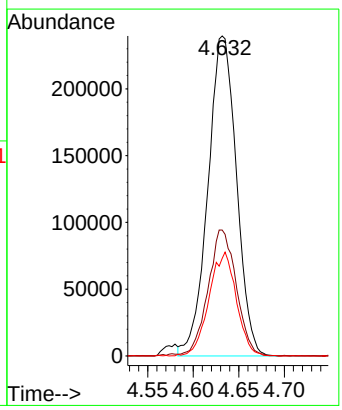


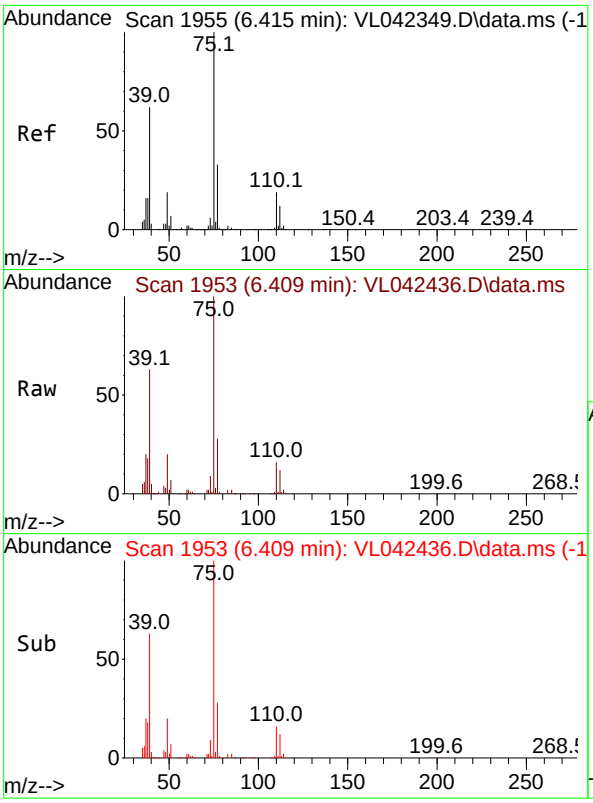




#44
2,2,4-Trimethylpentane
Concen: 9.010 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. -0.010 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 57 Resp: 522427

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 39.2 | 27.2 | 40.8 |
| 56 | 31.1 | 25.7 | 38.5 |



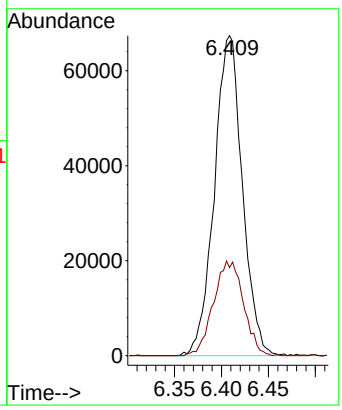


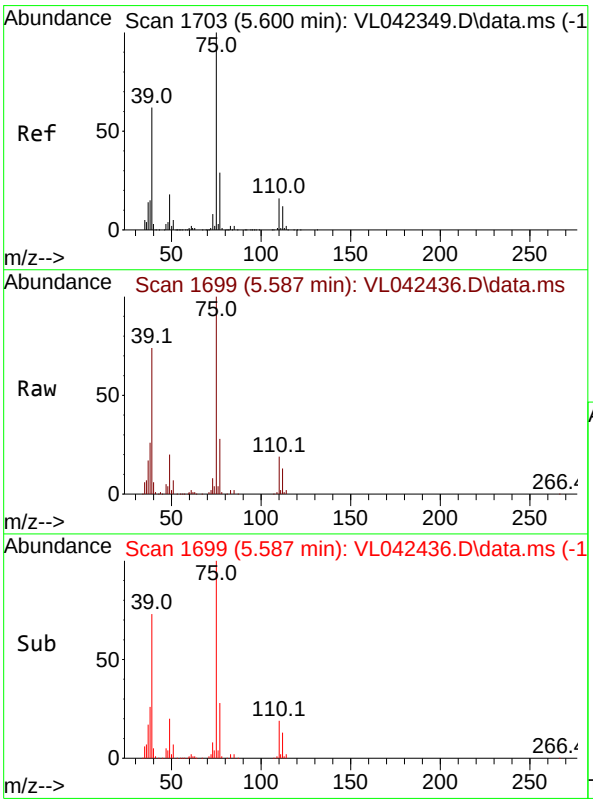

#45
t-1,3-Dichloropropene
Concen: 9.026 ppbv
RT: 6.409 min Scan# 1
Delta R.T. -0.007 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 75 Resp: 139508

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 27.5 | 27.0 | 40.6 |

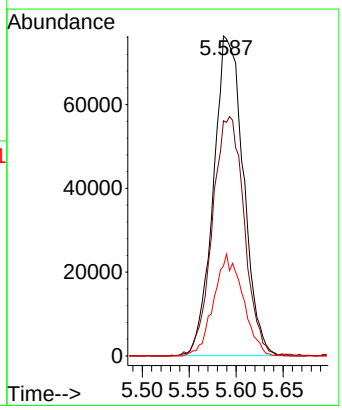


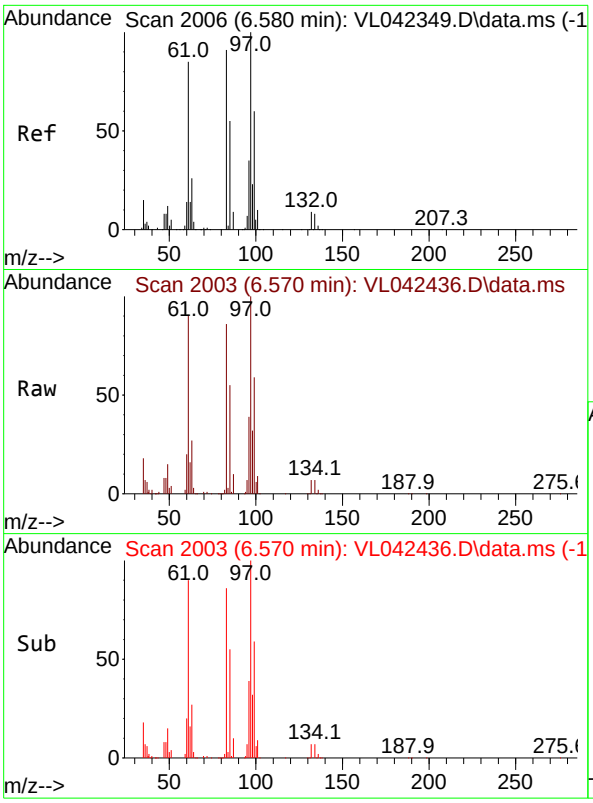




#46
cis-1,3-Dichloropropene
Concen: 8.953 ppbv
RT: 5.587 min Scan# 1699
Delta R.T. -0.013 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 75 Resp: 169355

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 39 | 73.4 | 50.0 | 75.0 |
| 77 | 28.2 | 23.0 | 34.6 |



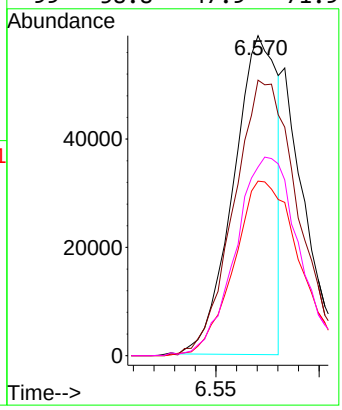


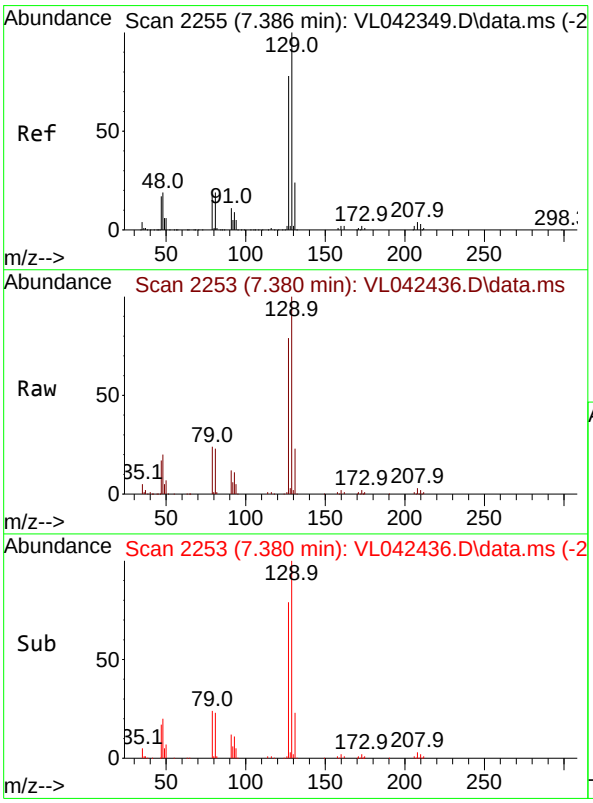

#47
1,1,2-Trichloroethane
Concen: 6.778 ppbv
RT: 6.570 min Scan# 2
Delta R.T. -0.010 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 97 Resp: 86392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 86.3 | 72.8 | 109.2 |
| 85 | 54.1 | 44.2 | 66.4 |
| 99 | 58.8 | 47.9 | 71.9 |

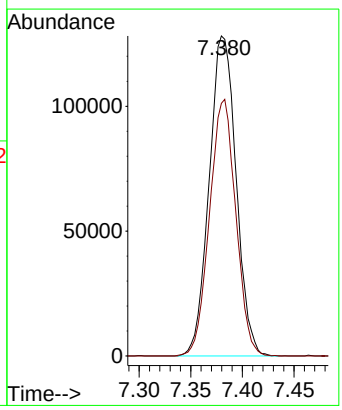


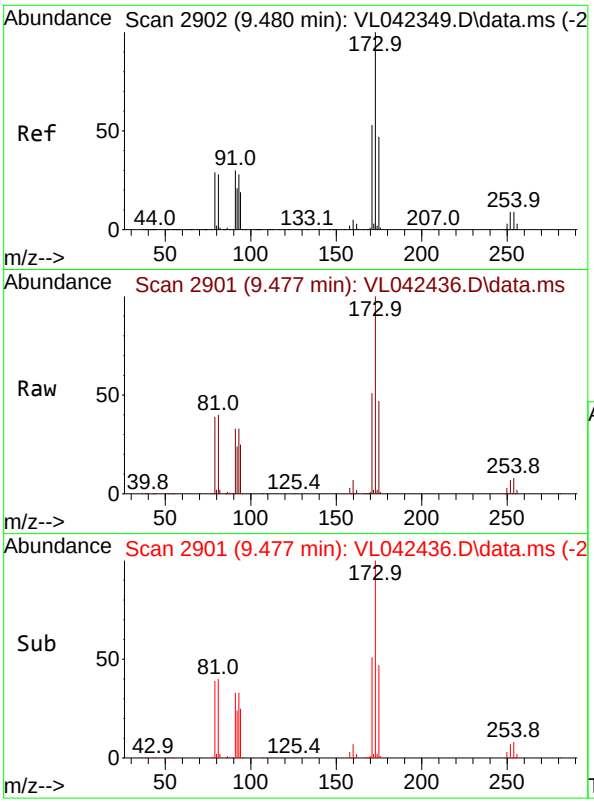




#48
Dibromochloromethane
Concen: 10.339 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. -0.007 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion:129 Resp: 232818

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.1 | 39.1 | 117.3 |



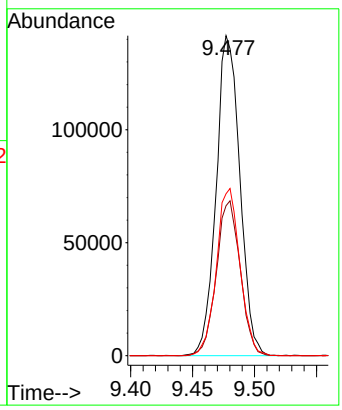


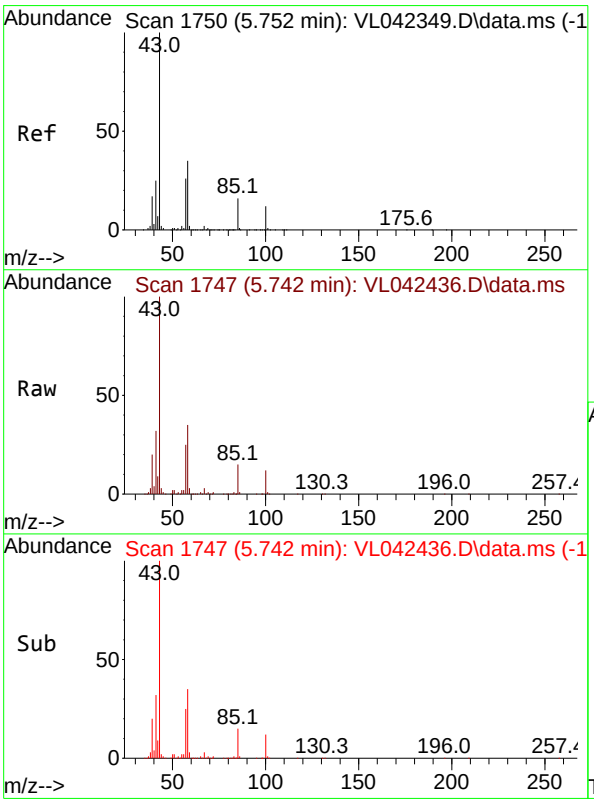

#49
Bromoform
Concen: 9.593 ppbv
RT: 9.477 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:173 Resp: 188896

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.7 | 38.2 | 57.2 |
| 171 | 52.0 | 40.9 | 61.3 |

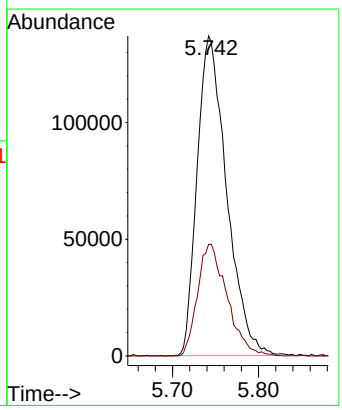


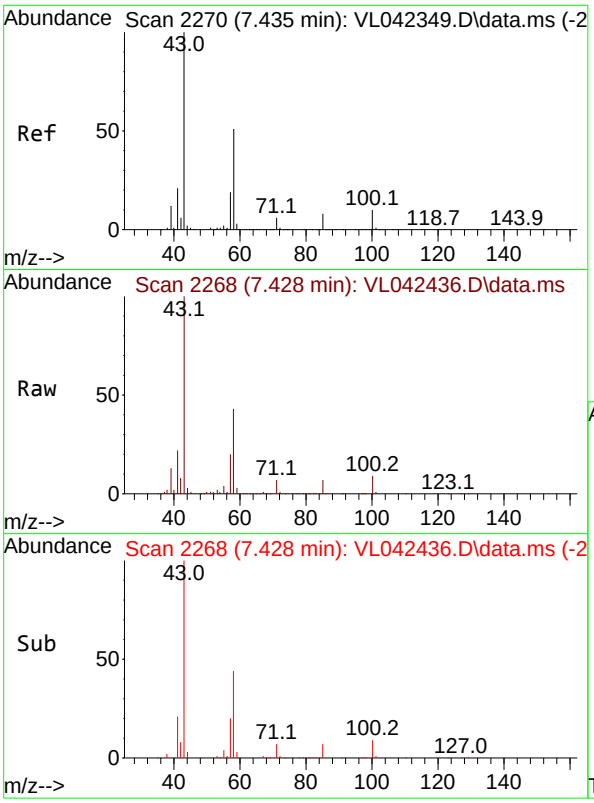




#50
4-Methyl-2-Pentanone
Concen: 7.965 ppbv
RT: 5.742 min Scan# 1747
Delta R.T. -0.010 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 43 Resp: 325855

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 35.1 | 28.6 | 43.0 |



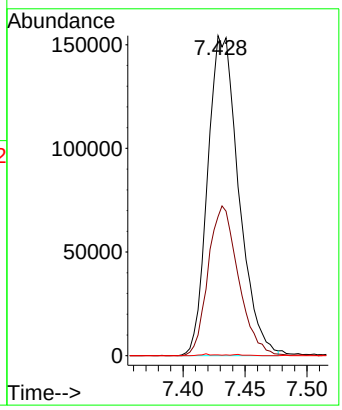


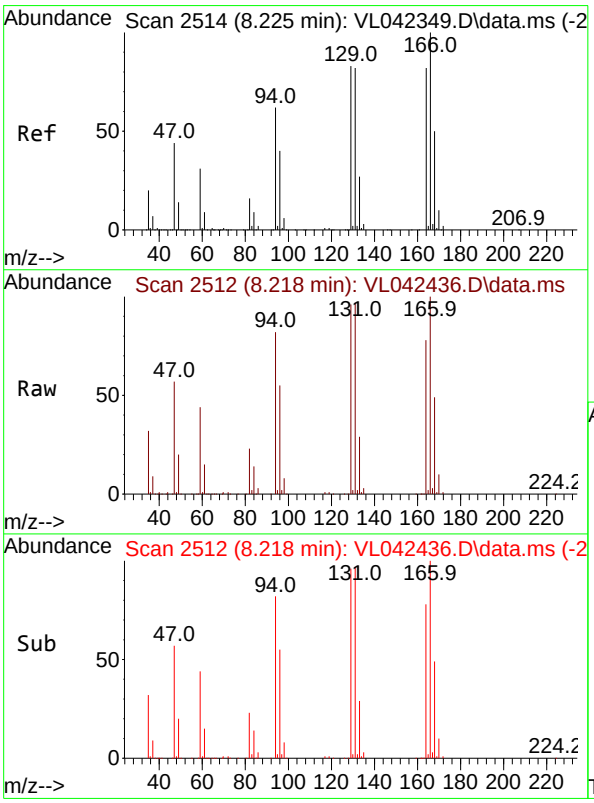

#51
2-Hexanone
Concen: 7.357 ppbv
RT: 7.428 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 43 Resp: 269915

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 45.8 | 40.2 | 60.4 |
| 98 | 0.4 | 0.1 | 0.1# |

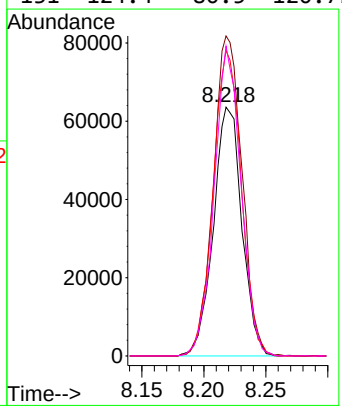


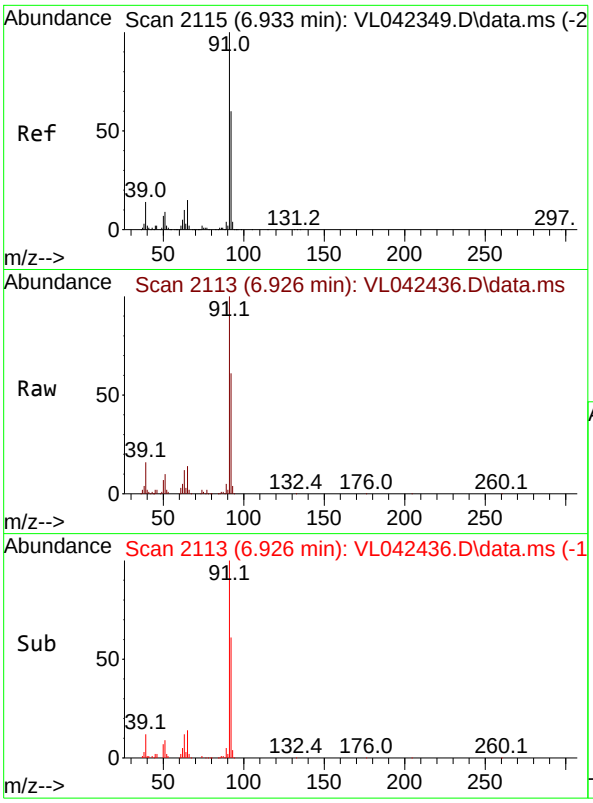




#52
Tetrachloroethene
Concen: 7.833 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. -0.007 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion:164 Resp: 101642

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 128.6 | 98.2 | 147.2 |
| 129 | 122.8 | 81.8 | 122.8# |
| 131 | 124.4 | 80.5 | 120.7# |



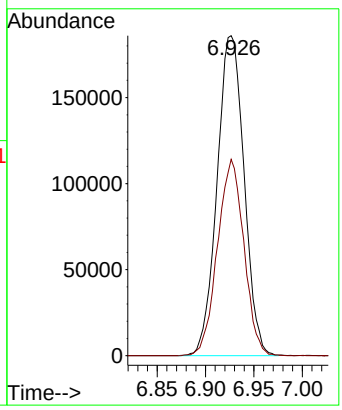


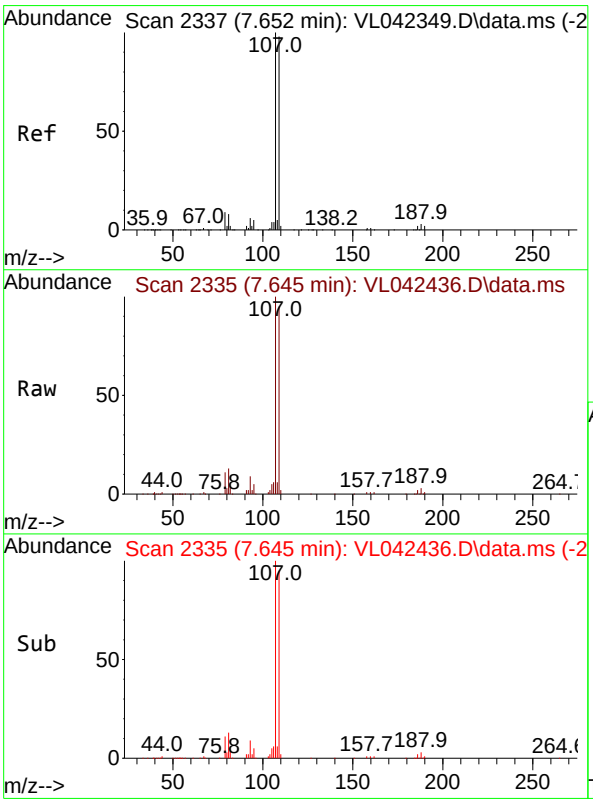

#53
Toluene
Concen: 8.968 ppbv
RT: 6.926 min Scan# 21
Delta R.T. -0.007 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 91 Resp: 361317

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 59.9 | 48.2 | 72.4 |

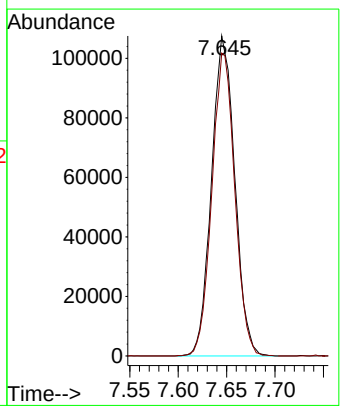


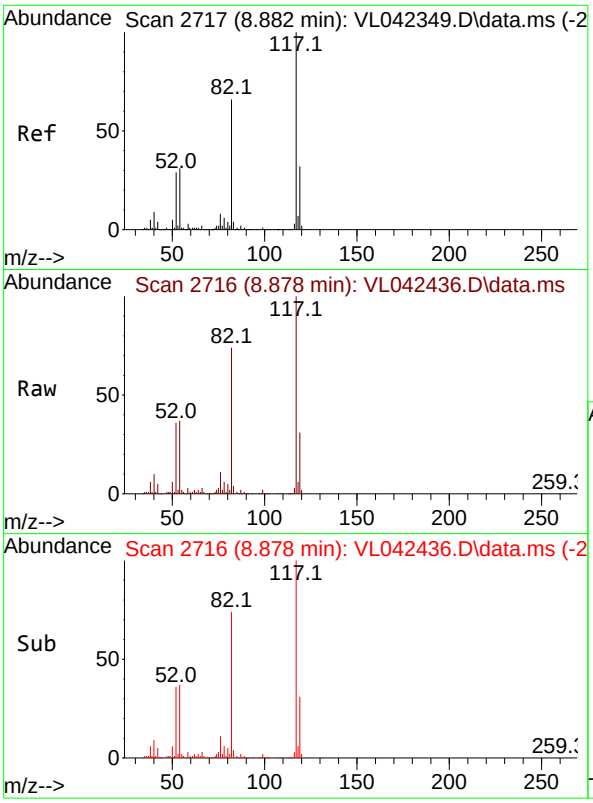




#54
1,2-Dibromoethane
Concen: 9.861 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.007 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion:107 Resp: 179895

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.7 | 78.2 | 117.4 |



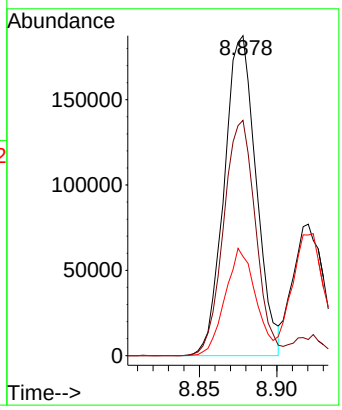


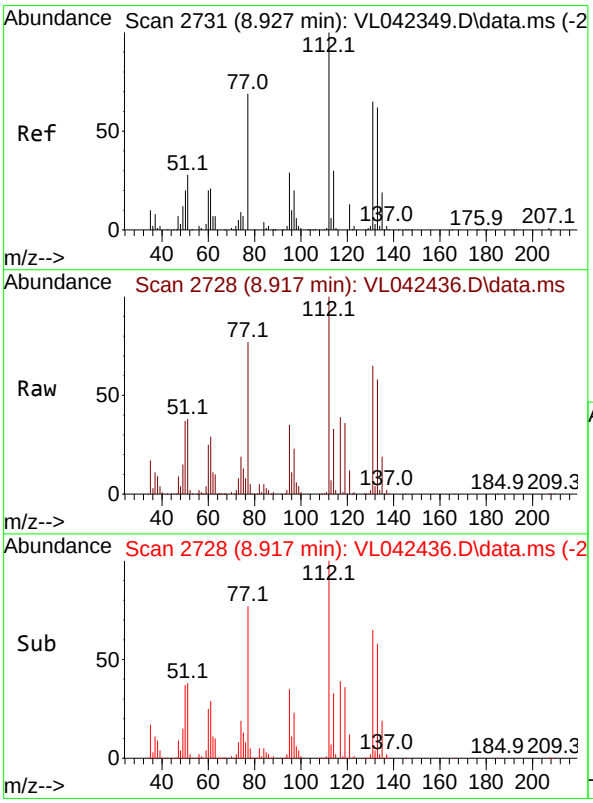

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:117 Resp: 269987

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 79.6 | 57.8 | 86.6 |
| 119 | 32.9 | 25.2 | 37.8 |

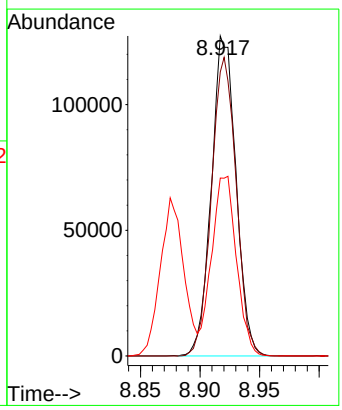


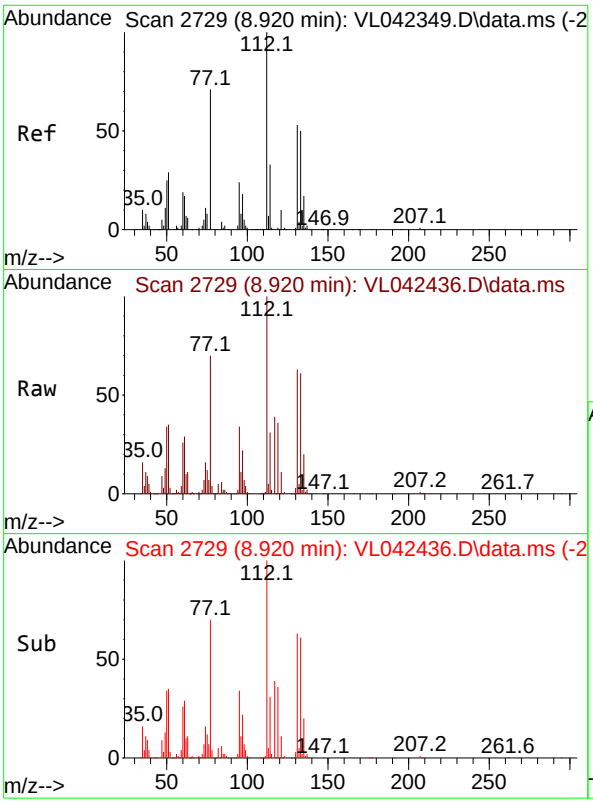




#56
1,1,1,2-Tetrachloroethane
Concen: 11.184 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. -0.010 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion:131 Resp: 182759

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 93.9 | 78.3 | 117.5 |
| 119 | 55.8 | 48.7 | 73.1 |



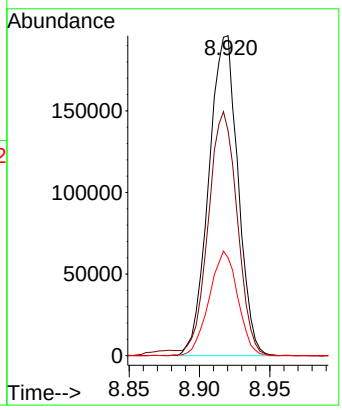


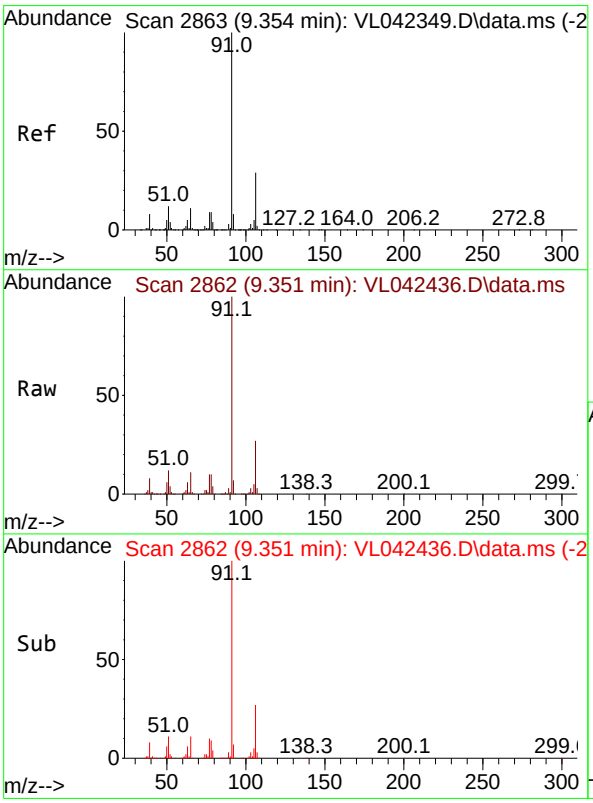

#57
Chlorobenzene
Concen: 10.086 ppbv
RT: 8.920 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:112 Resp: 283210

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 70.2 | 57.8 | 86.6 |
| 114 | 30.6 | 29.3 | 35.9 |

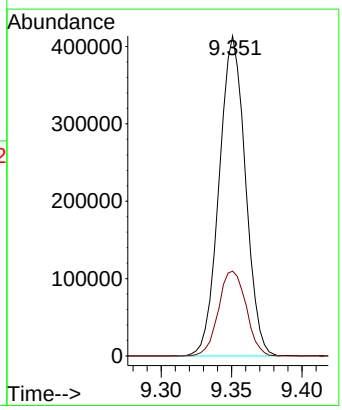


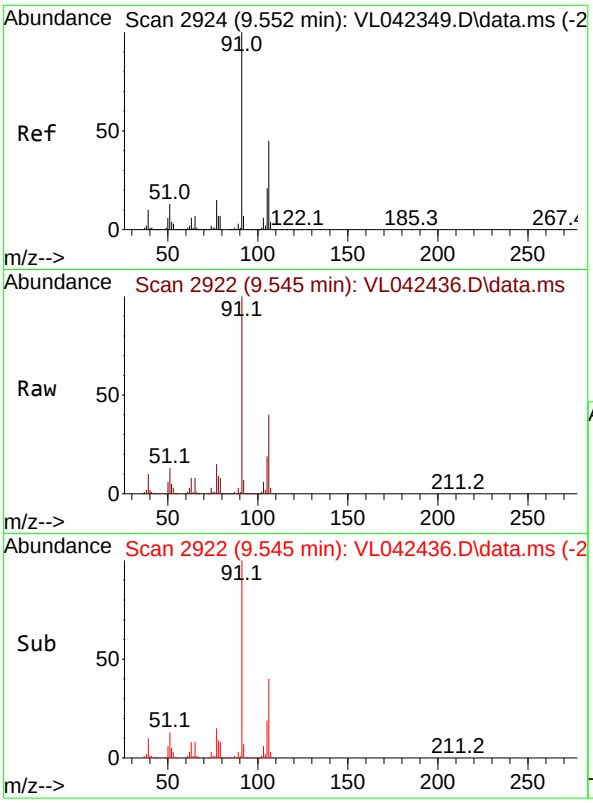




#58
Ethyl Benzene
Concen: 10.032 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 91 Resp: 536634

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 26.5 | 23.0 | 34.4 |



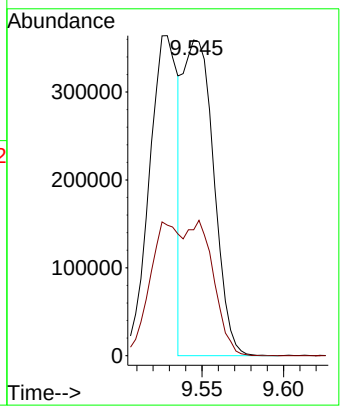


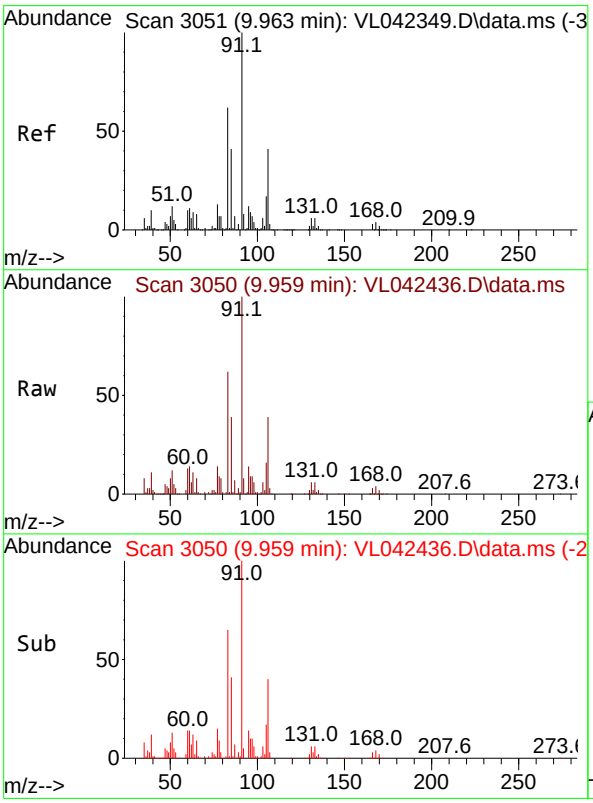

#59
m/p-Xylene
Concen: 10.897 ppbv
RT: 9.545 min Scan# 2
Delta R.T. -0.007 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 91 Resp: 469573

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 81.2 | 35.4 | 53.2# |

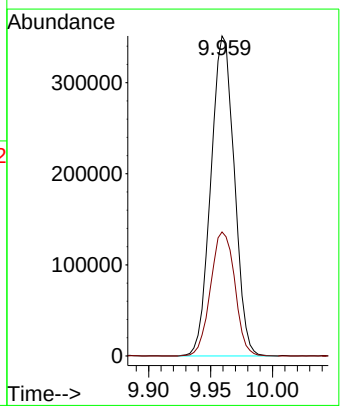


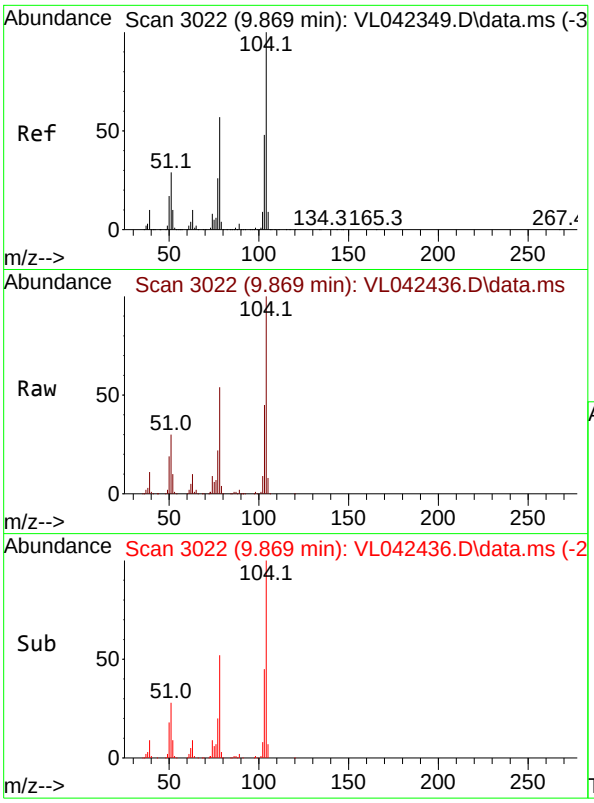




#60
o-Xylene
Concen: 10.686 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 91 Resp: 463713

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 40.0 | 21.1 | 63.4 |



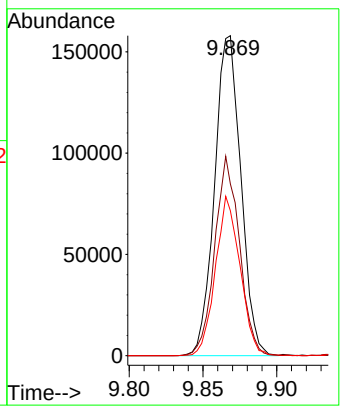


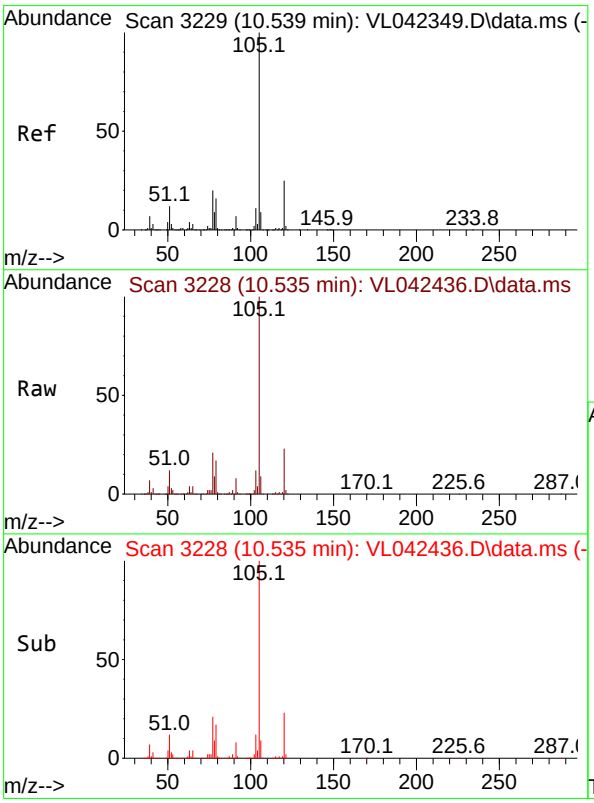

#61
Styrene
Concen: 9.454 ppbv
RT: 9.869 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:104 Resp: 195813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 58.5 | 44.6 | 66.8 |
| 103 | 46.7 | 37.4 | 56.0 |

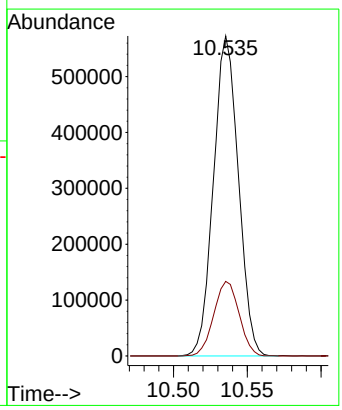


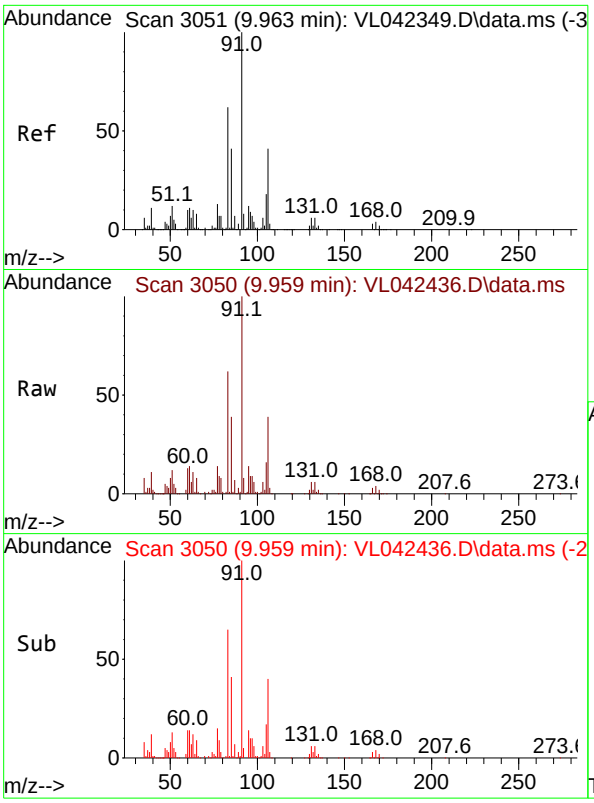




#62
Isopropylbenzene
Concen: 10.558 ppbv
RT: 10.535 min Scan# 3228
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion:105 Resp: 672630

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 23.7 | 19.8 | 29.8 |



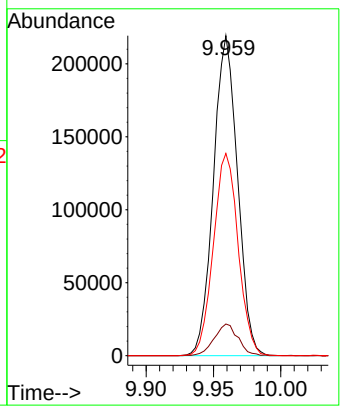


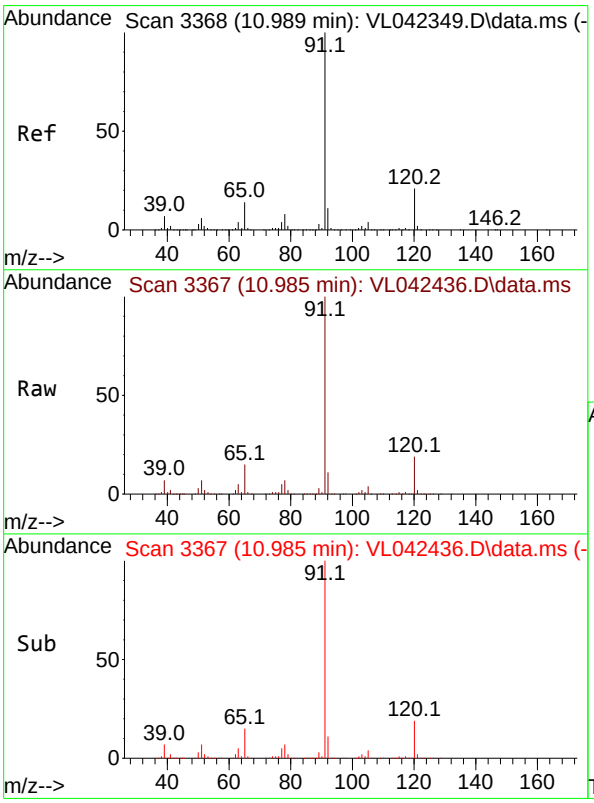

#63
1,1,2,2-Tetrachloroethane
Concen: 9.699 ppbv
RT: 9.959 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 83 Resp: 272746

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.8 | 4.5 | 13.7 |
| 85 | 65.0 | 32.4 | 97.0 |

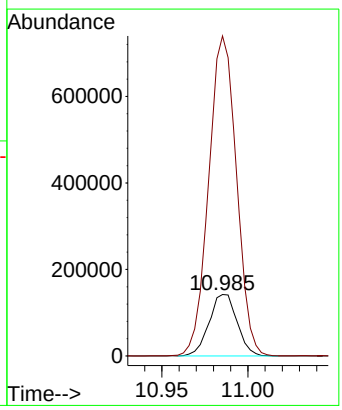


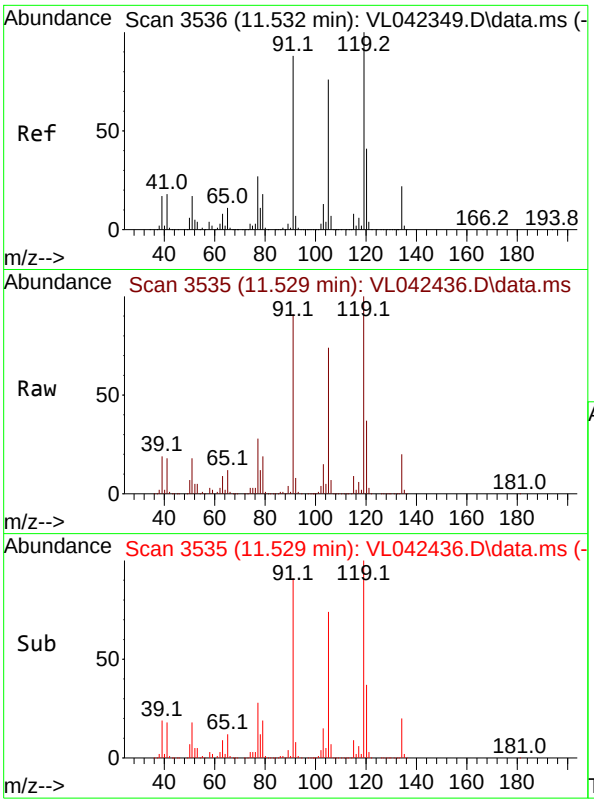




#64
n-propylbenzene
Concen: 10.037 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion:120 Resp: 160736

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 518.7 | 392.4 | 588.6 |



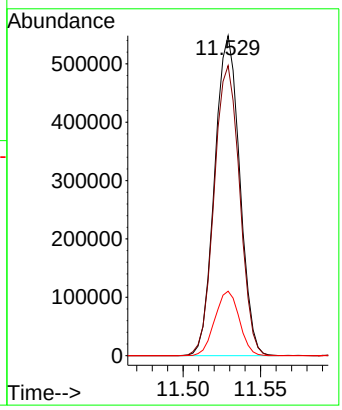


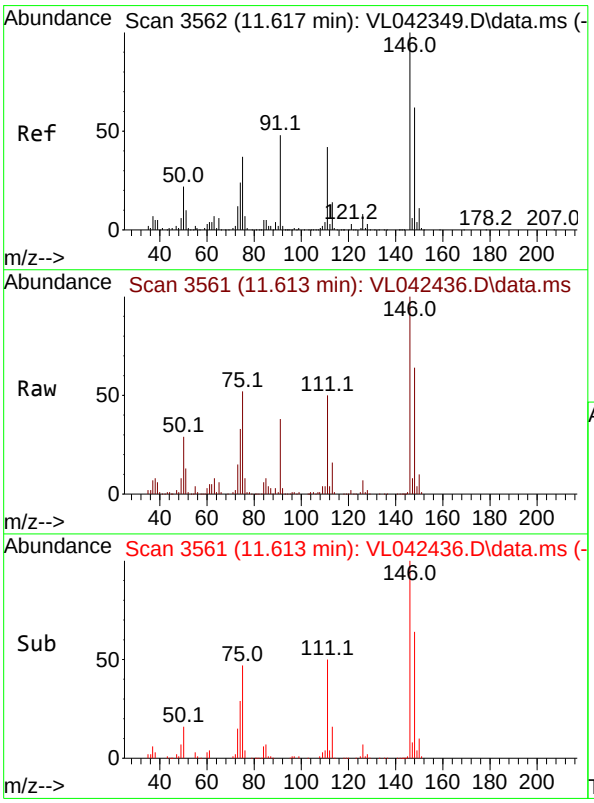

#65
tert-Butylbenzene
Concen: 10.535 ppbv
RT: 11.529 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:119 Resp: 616872

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 92.2 | 74.6 | 111.8 |
| 134 | 19.6 | 18.8 | 28.2 |

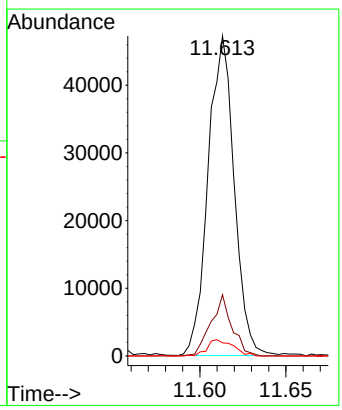


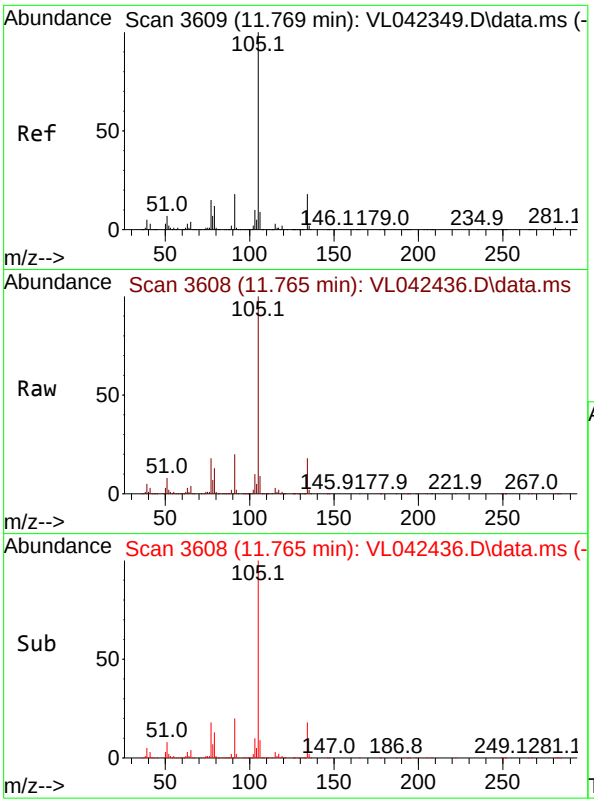




#66
Benzyl Chloride
Concen: 7.746 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 91 Resp: 49841

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 15.4 | 11.8 | 17.6 |
| 128 | 5.1 | 4.5 | 6.7 |



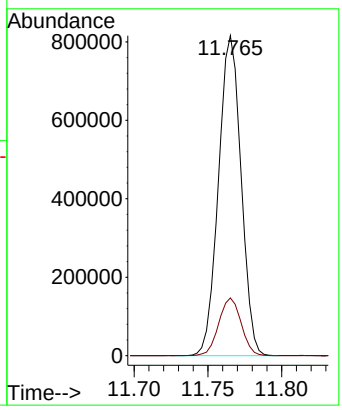


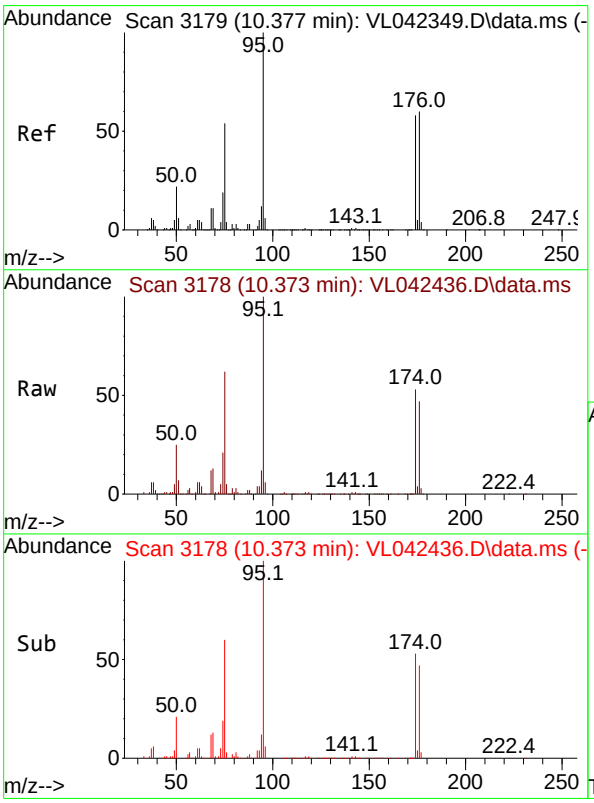

#67
sec-Butylbenzene
Concen: 10.677 ppbv
RT: 11.765 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:105 Resp: 869595

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 17.9 | 14.6 | 21.8 |

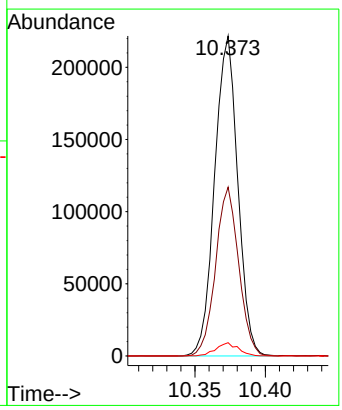


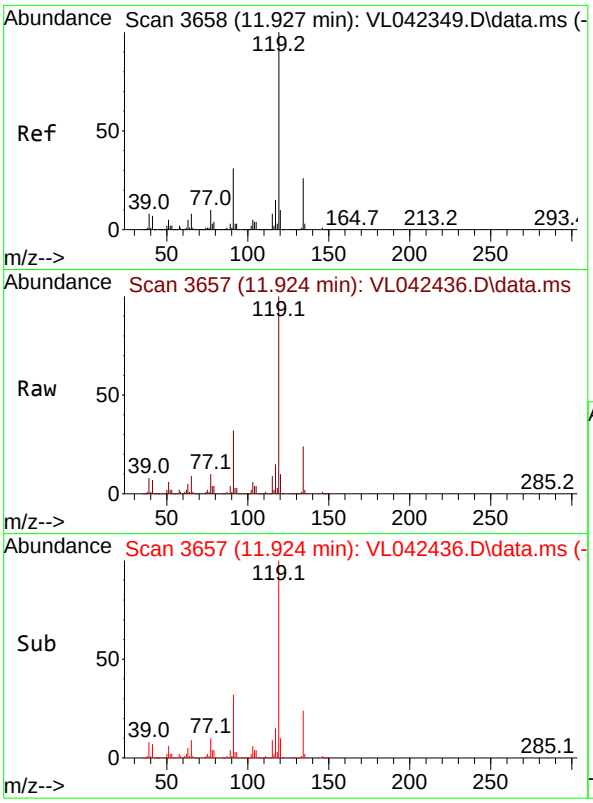




#68
1-Bromo-4-Fluorobenzene
Concen: 11.413 ppbv
RT: 10.373 min Scan# 3178
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 95 Resp: 253216

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 52.8 | 48.5 | 72.7 |
| 175 | 4.0 | 3.7 | 5.5 |



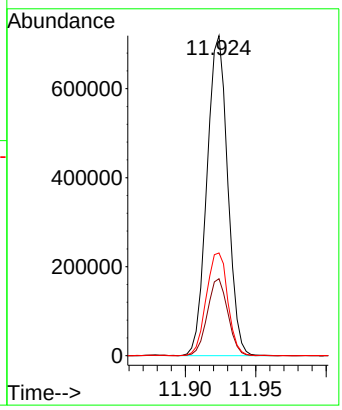


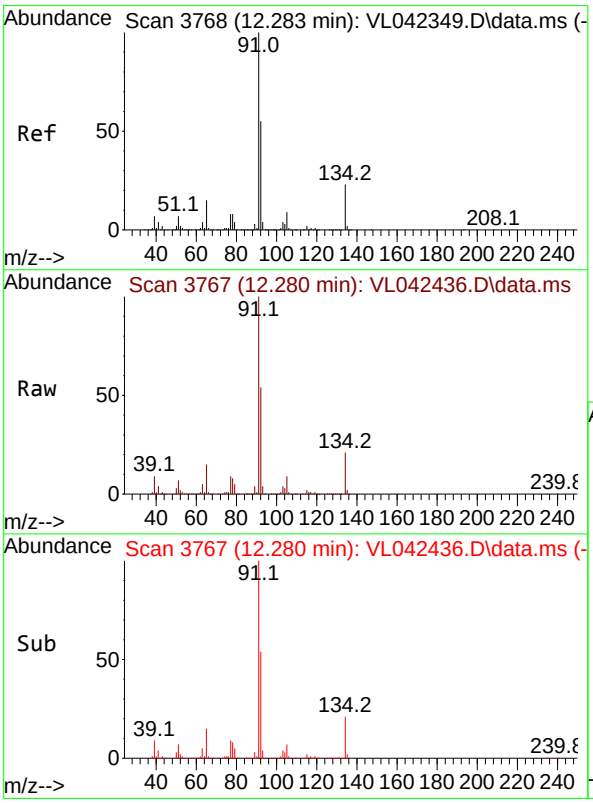

#69
p-Isopropyltoluene
Concen: 10.442 ppbv
RT: 11.924 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:119 Resp: 738863

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 23.9 | 20.0 | 30.0 |
| 91 | 33.5 | 24.4 | 36.6 |

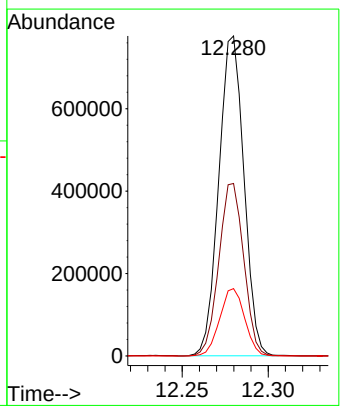


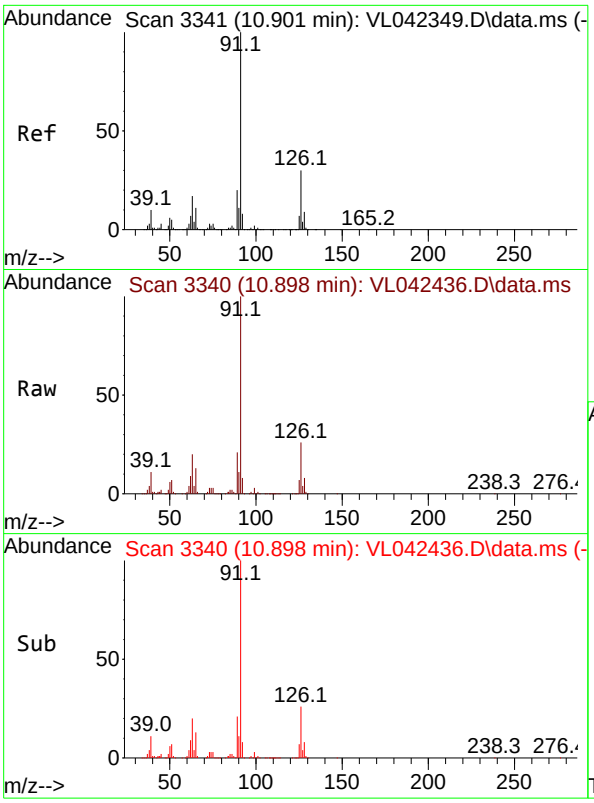




#70
n-Butylbenzene
Concen: 10.688 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion: 91 Resp: 787717

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.9 | 44.2 | 66.4 |
| 134 | 21.0 | 18.2 | 27.4 |



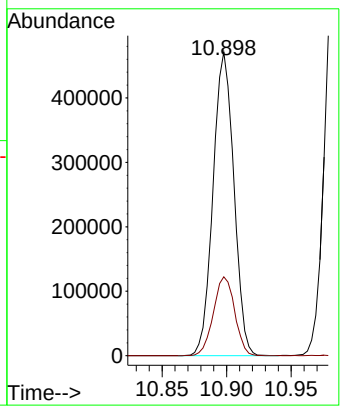


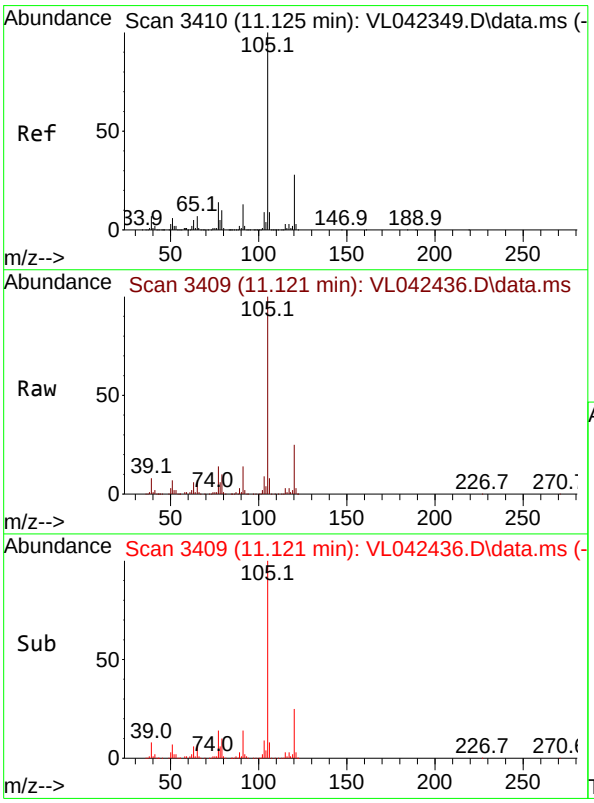

#71
2-Chlorotoluene
Concen: 10.571 ppbv
RT: 10.898 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion: 91 Resp: 528205

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 26.5 | 11.4 | 45.4 |

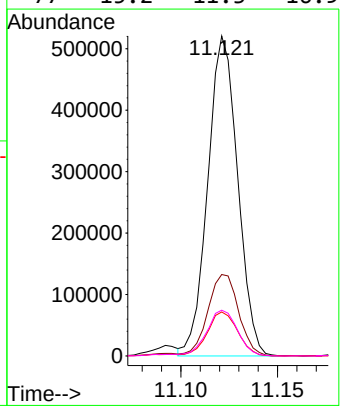


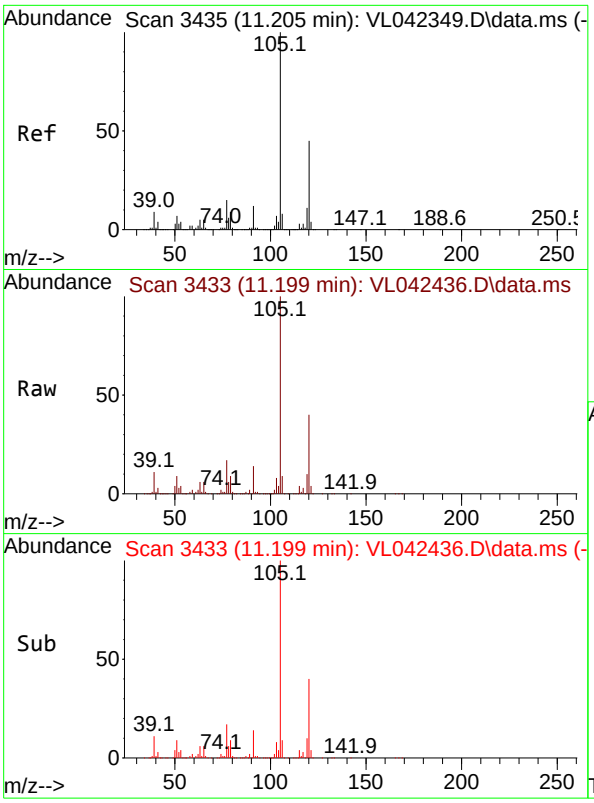




#72
4-Ethyltoluene
Concen: 10.542 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion:105 Resp: 559285

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 27.0 | 23.2 | 34.8 |
| 91 | 14.5 | 10.4 | 15.6 |
| 77 | 15.2 | 11.3 | 16.9 |



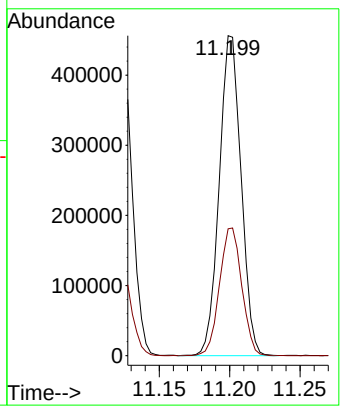


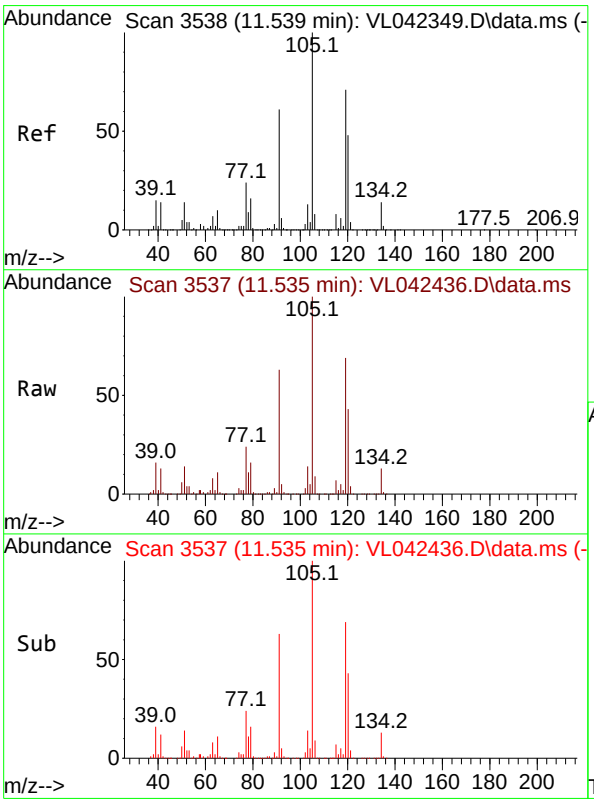

#73
1,3,5-Trimethylbenzene
Concen: 10.546 ppbv
RT: 11.199 min Scan# 34
Delta R.T. -0.007 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:105 Resp: 493949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 39.6 | 35.6 | 53.4 |

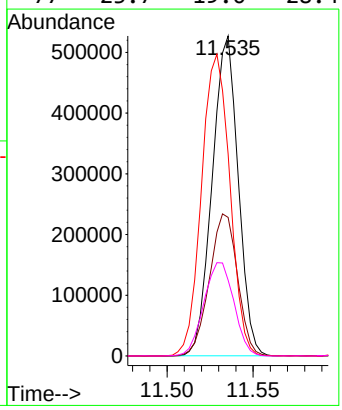


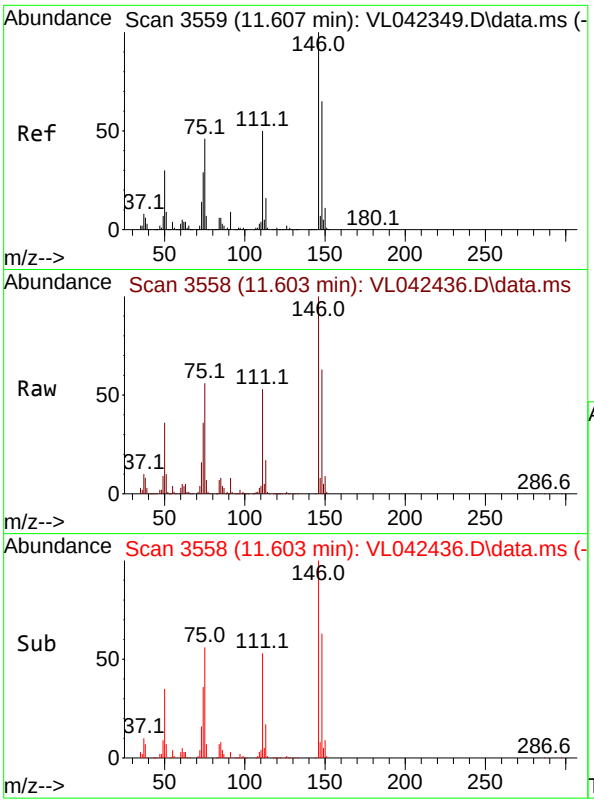




#74
1,2,4-Trimethylbenzene
Concen: 10.130 ppbv
RT: 11.535 min Scan# 3537
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion:105 Resp: 554136

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 43.3 | 38.1 | 57.1 |
| 91 | 63.1 | 48.8 | 73.2 |
| 77 | 23.7 | 19.0 | 28.4 |



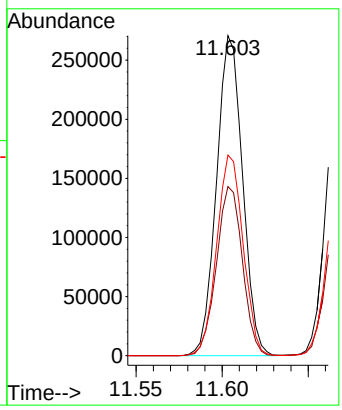


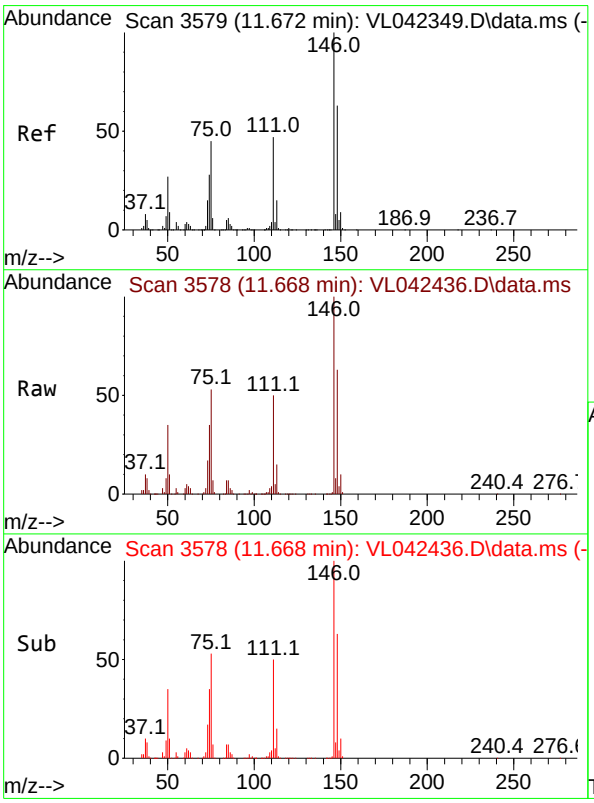

#75
1,3-Dichlorobenzene
Concen: 10.024 ppbv
RT: 11.603 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:146 Resp: 285025

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 52.9 | 24.3 | 72.8 |
| 148 | 63.6 | 31.6 | 94.8 |

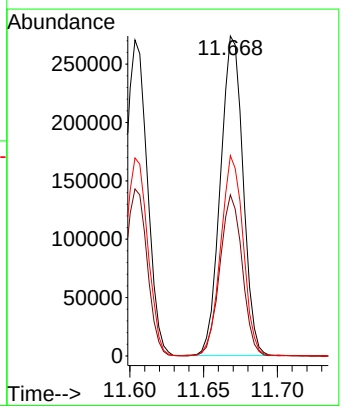


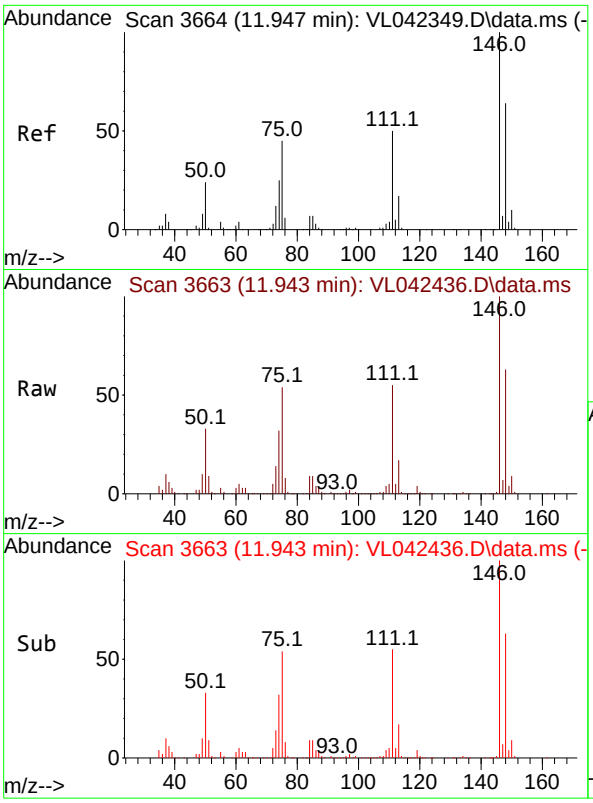




#76
1,4-Dichlorobenzene
Concen: 10.210 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion:146 Resp: 291795

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 50.1 | 24.2 | 72.6 |
| 148 | 62.4 | 32.1 | 96.5 |



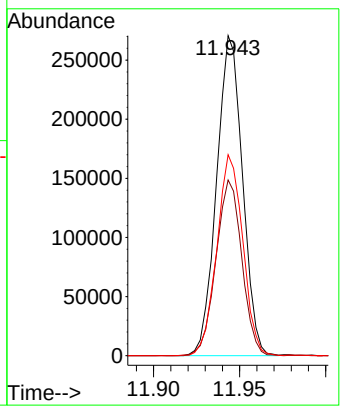


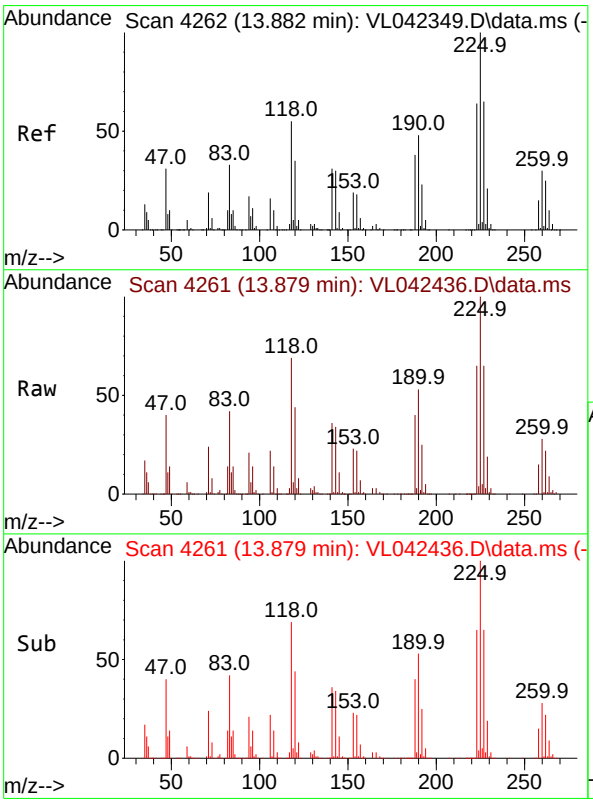

#77
1,2-Dichlorobenzene
Concen: 10.261 ppbv
RT: 11.943 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:146 Resp: 283700

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 54.8 | 25.3 | 75.9 |
| 148 | 63.1 | 31.5 | 94.5 |

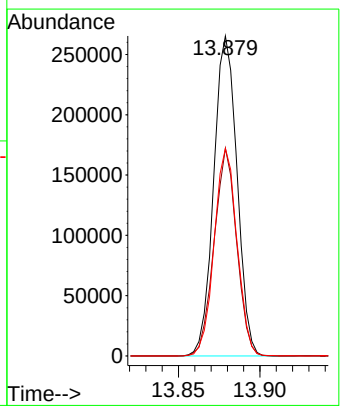


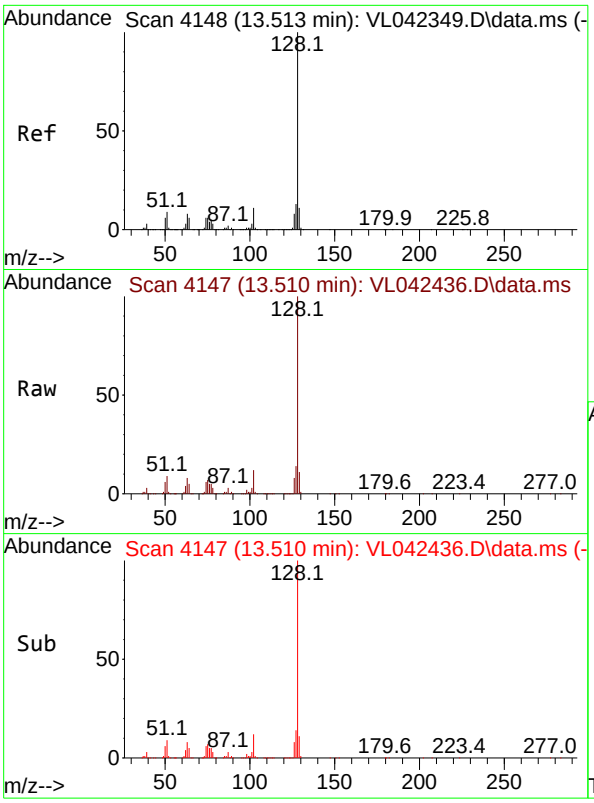




#78
Hexachloro-1,3-Butadiene
Concen: 9.437 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion:225 Resp: 263477

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.6 | 50.3 | 75.5 |
| 227 | 63.6 | 51.5 | 77.3 |



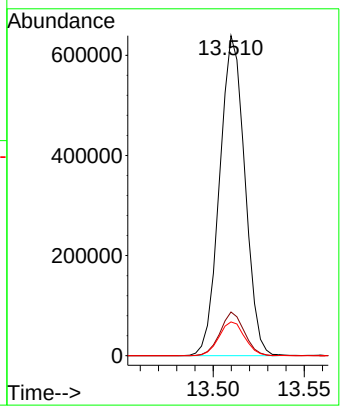


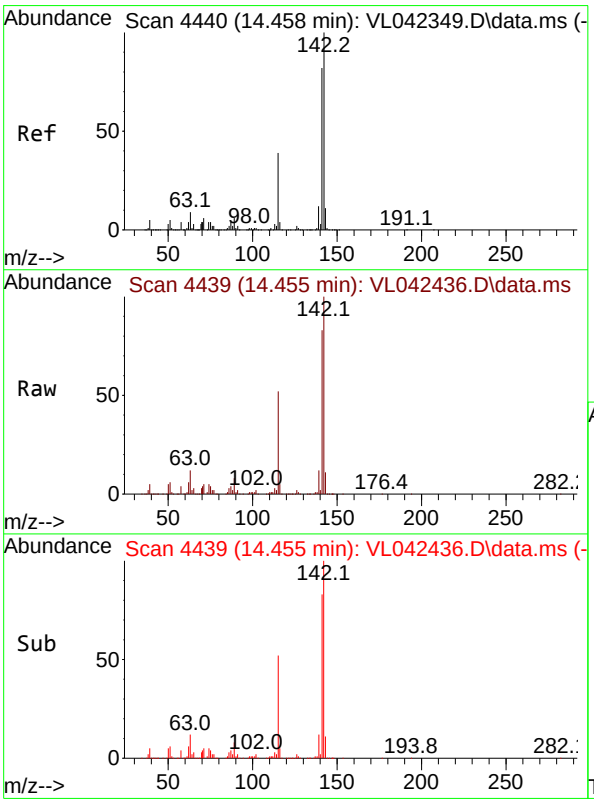

#79
Naphthalene
Concen: 9.408 ppbv
RT: 13.510 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:128 Resp: 615408

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.7 | 10.6 | 15.8 |
| 129 | 10.5 | 8.6 | 12.8 |

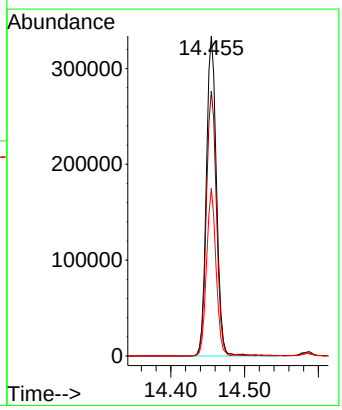


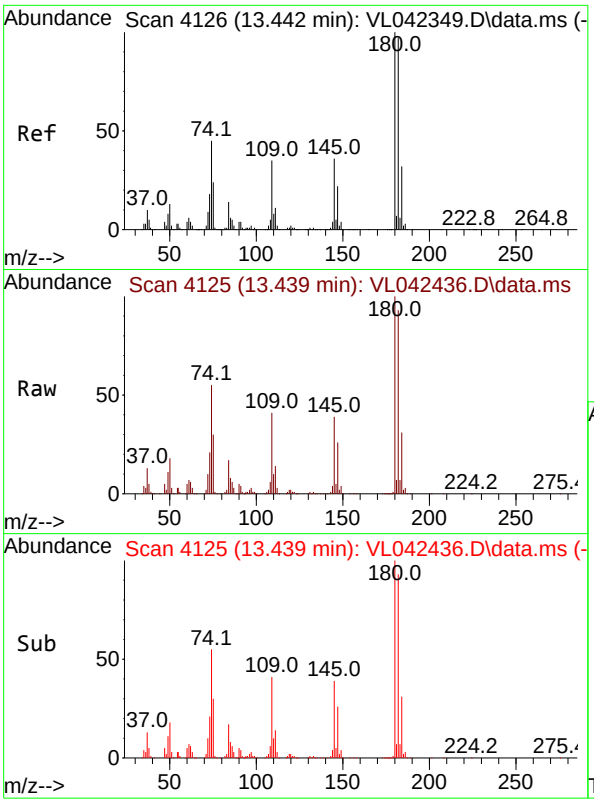




#80
Naphthalene,2-methyl-
Concen: 8.497 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

Tgt Ion:142 Resp: 316788

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 83.6 | 66.8 | 100.2 |
| 115 | 49.6 | 33.4 | 50.2 |



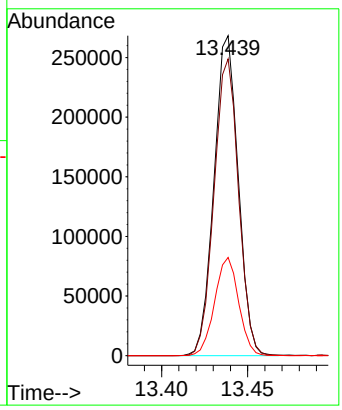



#81
1,2,4-Trichlorobenzene
Concen: 9.363 ppbv
RT: 13.439 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042436.D
Acq: 29 Apr 2025 08:39

**Instrument :**
MSVOA_L
**ClientSampleId :**
VSTDCCC010

Tgt Ion:180 Resp: 263006

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.8 | 76.8 | 115.2 |
| 184 | 30.4 | 24.6 | 36.8 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
Data File : VL042438.D
Acq On : 29 Apr 2025 10:08
Operator : SY/MD
Sample : VL0429ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

Quant Time: Apr 30 01:17:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 2.790 | 49 | 116772 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.962 | 114 | 317590 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 8.881 | 117 | 272312 | 10.000 | ppbv | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.380 | 95 | 253021 | 11.307 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 113.100% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.499 | 85 | 238539 | 11.562 | ppbv | | 96 |
| 3) Chlorodifluoromethane | 1.476 | 51 | 192670 | 9.807 | ppbv | | 92 |
| 4) Chloromethane | 1.534 | 50 | 89832 | 11.003 | ppbv | | 94 |
| 5) Vinyl Chloride | 1.580 | 62 | 85334 | 9.601 | ppbv | | 99 |
| 6) Bromomethane | 1.667 | 94 | 40758 | 10.676 | ppbv | | 94 |
| 7) Chloroethane | 1.706 | 64 | 33756 | 10.502 | ppbv | | 97 |
| 8) Dichlorotetrafluoroethane | 1.554 | 85 | 198106 | 11.184 | ppbv | | 95 |
| 9) Propene | 1.486 | 41 | 70111 | 7.836 | ppbv | | 97 |
| 10) Heptane | 4.981 | 43 | 190583 | 7.582 | ppbv | | 99 |
| 11) Trichlorofluoromethane | 1.877 | 101 | 225308 | 11.484 | ppbv | | 99 |
| 12) 1,1,2-Trichlorotrifluo... | 2.140 | 101 | 174111 | 10.854 | ppbv | | 97 |
| 13) Ethanol | 1.722 | 45 | 4137 | 2.909 | ppbv | | 90 |
| 14) Bromoethene | 1.783 | 108 | 64544 | 10.674 | ppbv | # | 98 |
| 15) Acetone | 1.835 | 43 | 189432 | 9.910 | ppbv | | 98 |
| 16) 1,3-Butadiene | 1.609 | 39 | 90473 | 9.895 | ppbv | | 93 |
| 17) tert-Butyl alcohol | 2.042 | 59 | 230217 | 9.718 | ppbv | | 99 |
| 18) 1,1-Dichloroethene | 2.036 | 96 | 76749 | 10.241 | ppbv | | 96 |
| 19) Isopropyl Alcohol | 1.887 | 45 | 103692 | 9.765 | ppbv | # | 36 |
| 20) Methylene Chloride | 2.062 | 84 | 67298 | 8.989 | ppbv | | 91 |
| 21) Allyl Chloride | 2.097 | 41 | 130014 | 9.851 | ppbv | | 95 |
| 22) trans-1,2-Dichloroethene | 2.340 | 96 | 84797 | 9.938 | ppbv | | 90 |
| 23) Vinyl Acetate | 2.463 | 43 | 61036 | 7.888 | ppbv | # | 95 |
| 24) 1,1-Dichloroethane | 2.408 | 63 | 177233 | 10.934 | ppbv | | 98 |
| 25) Ethyl Acetate | 2.839 | 43 | 416465 | 8.836 | ppbv | | 99 |
| 26) Hexane | 2.826 | 57 | 157544 | 8.260 | ppbv | | 97 |
| 27) Carbon Disulfide | 2.149 | 76 | 211824 | 10.372 | ppbv | | 99 |
| 28) Methyl tert-Butyl Ether | 2.441 | 73 | 116769 | 9.344 | ppbv | | 94 |
| 29) Chloroform | 2.852 | 83 | 286397 | 10.623 | ppbv | | 96 |
| 30) Cyclohexane | 3.858 | 84 | 132615 | 8.601 | ppbv | | 95 |
| 31) cis-1,2-Dichloroethene | 2.722 | 61 | 174328 | 9.613 | ppbv | | 99 |
| 32) 1,1,1-Trichloroethane | 3.369 | 97 | 312429 | 10.294 | ppbv | | 99 |
| 34) 2-Butanone | 2.560 | 43 | 233037 | 9.278 | ppbv | | 98 |
| 35) Carbon Tetrachloride | 3.764 | 117 | 317207 | 11.036 | ppbv | | 93 |
| 36) Benzene | 3.658 | 78 | 317350 | 9.264 | ppbv | | 96 |
| 37) 1,2-Dichloroethane | 3.221 | 62 | 247446 | 12.035 | ppbv | # | 96 |
| 38) Trichloroethene | 4.551 | 130 | 127601 | 8.523 | ppbv | | 91 |
| 39) 1,2-Dichloropropane | 4.318 | 63 | 115449 | 9.044 | ppbv | | 92 |
| 40) 1,4-Dioxane | 4.586 | 88 | 52820 | 7.529 | ppbv | # | 92 |
| 41) Tetrahydrofuran | 3.055 | 42 | 124059 | 8.471 | ppbv | | 98 |
| 42) Bromodichloromethane | 4.493 | 83 | 317253 | 11.088 | ppbv | | 99 |
| 43) Methyl Methacrylate | 4.887 | 69 | 61150 | 3.961 | ppbv | # | 1 |
| 44) 2,2,4-Trimethylpentane | 4.641 | 57 | 531439 | 8.983 | ppbv | | 95 |
| 45) t-1,3-Dichloropropene | 6.418 | 75 | 140981 | 8.940 | ppbv | | 100 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
Data File : VL042438.D
Acq On : 29 Apr 2025 10:08
Operator : SY/MD
Sample : VL0429ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

Quant Time: Apr 30 01:17:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) cis-1,3-Dichloropropene | 5.606 | 75 | 170063 | 8.811 | ppbv | # | 84 |
| 47) 1,1,2-Trichloroethane | 6.583 | 97 | 128662 | 9.893 | ppbv | | 95 |
| 48) Dibromochloromethane | 7.389 | 129 | 233350 | 10.156 | ppbv | | 100 |
| 49) Bromoform | 9.487 | 173 | 189484 | 9.431 | ppbv | | 99 |
| 50) 4-Methyl-2-Pentanone | 5.755 | 43 | 327508 | 7.846 | ppbv | | 98 |
| 51) 2-Hexanone | 7.438 | 43 | 262697 | 7.018 | ppbv | # | 95 |
| 52) Tetrachloroethene | 8.228 | 164 | 106031 | 8.008 | ppbv | | 90 |
| 53) Toluene | 6.936 | 91 | 363707 | 8.848 | ppbv | | 99 |
| 54) 1,2-Dibromoethane | 7.658 | 107 | 178709 | 9.601 | ppbv | | 96 |
| 56) 1,1,1,2-Tetrachloroethane | 8.930 | 131 | 180979 | 10.981 | ppbv | | 96 |
| 57) Chlorobenzene | 8.924 | 112 | 290861 | 10.270 | ppbv | | 99 |
| 58) Ethyl Benzene | 9.357 | 91 | 545497 | 10.111 | ppbv | | 98 |
| 59) m/p-Xylene | 9.555 | 91 | 424567 | 9.768 | ppbv | # | 31 |
| 60) o-Xylene | 9.966 | 91 | 465645 | 10.639 | ppbv | | 94 |
| 61) Styrene | 9.872 | 104 | 191741 | 9.178 | ppbv | | 97 |
| 62) Isopropylbenzene | 10.542 | 105 | 667839 | 10.393 | ppbv | | 97 |
| 63) 1,1,2,2-Tetrachloroethane | 9.966 | 83 | 278491 | 9.819 | ppbv | | 99 |
| 64) n-propylbenzene | 10.992 | 120 | 161309 | 9.987 | ppbv | | 91 |
| 65) tert-Butylbenzene | 11.535 | 119 | 605972 | 10.260 | ppbv | | 98 |
| 66) Benzyl Chloride | 11.620 | 91 | 46913 | 7.229 | ppbv | | 99 |
| 67) sec-Butylbenzene | 11.772 | 105 | 868275 | 10.569 | ppbv | | 98 |
| 69) p-Isopropyltoluene | 11.927 | 119 | 733796 | 10.282 | ppbv | | 96 |
| 70) n-Butylbenzene | 12.283 | 91 | 796622 | 10.717 | ppbv | | 98 |
| 71) 2-Chlorotoluene | 10.904 | 91 | 534951 | 10.614 | ppbv | | 96 |
| 72) 4-Ethyltoluene | 11.128 | 105 | 553879 | 10.351 | ppbv | | 97 |
| 73) 1,3,5-Trimethylbenzene | 11.205 | 105 | 491459 | 10.403 | ppbv | | 95 |
| 74) 1,2,4-Trimethylbenzene | 11.539 | 105 | 548408 | 9.939 | ppbv | # | 86 |
| 75) 1,3-Dichlorobenzene | 11.610 | 146 | 284809 | 9.931 | ppbv | | 97 |
| 76) 1,4-Dichlorobenzene | 11.675 | 146 | 285571 | 9.907 | ppbv | | 98 |
| 77) 1,2-Dichlorobenzene | 11.950 | 146 | 282424 | 10.128 | ppbv | | 96 |
| 78) Hexachloro-1,3-Butadiene | 13.885 | 225 | 280954 | 9.977 | ppbv | | 98 |
| 79) Naphthalene | 13.516 | 128 | 621879 | 9.425 | ppbv | | 100 |
| 80) Naphthalene,2-methyl- | 14.458 | 142 | 312733 | 8.317 | ppbv | | 95 |
| 81) 1,2,4-Trichlorobenzene | 13.442 | 180 | 269082 | 9.498 | ppbv | | 99 |

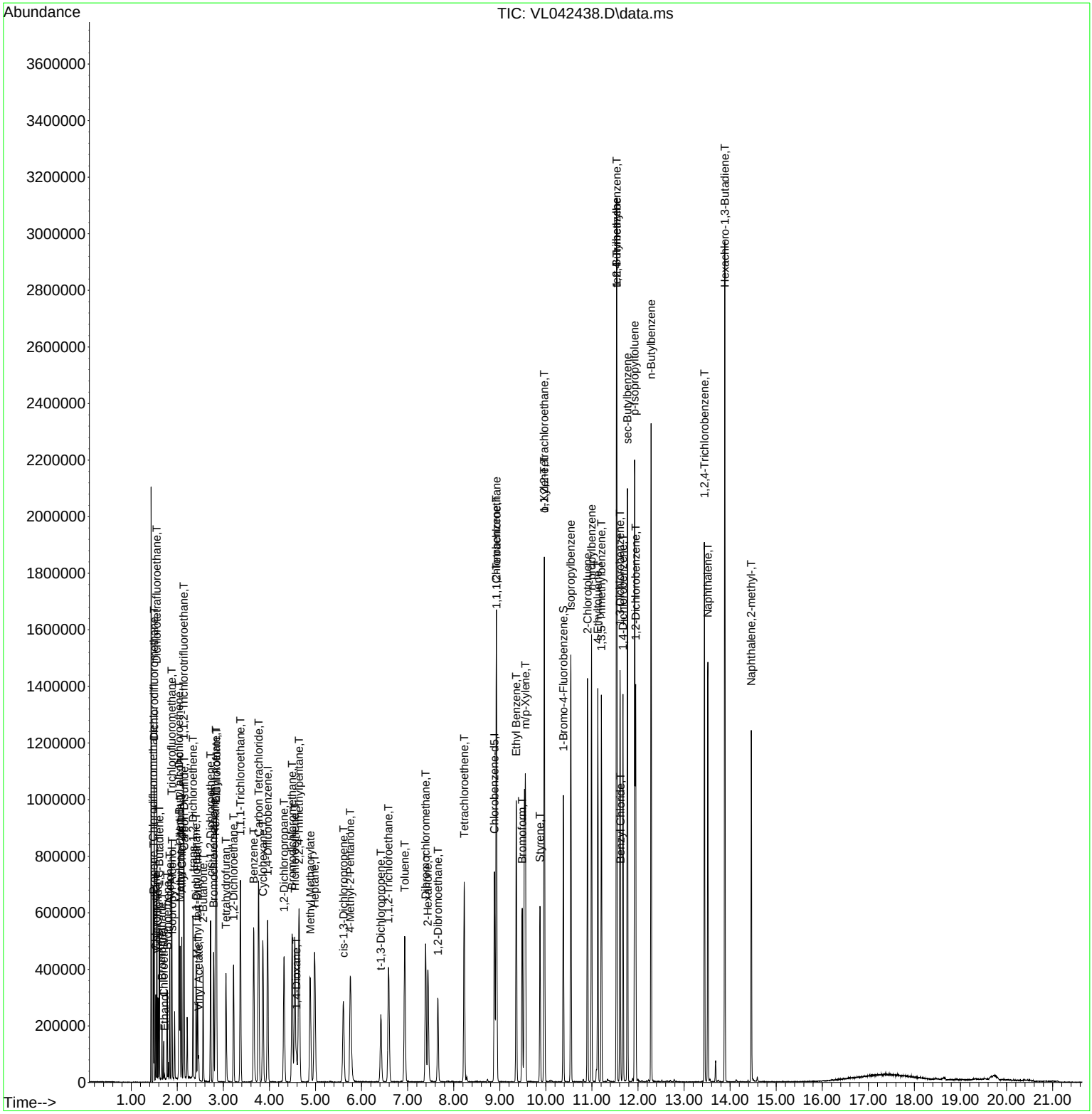
(#) = qualifier out of range (m) = manual integration (+) = signals summed

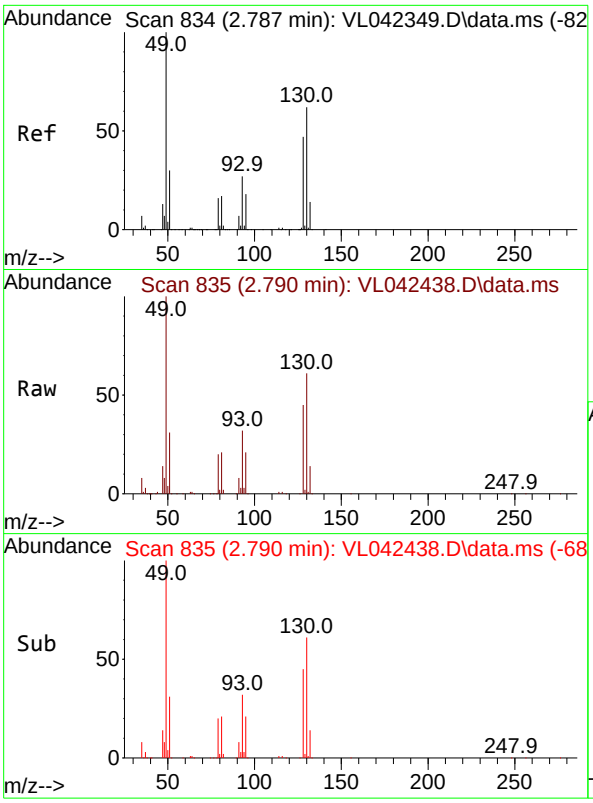
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
Data File : VL042438.D
Acq On : 29 Apr 2025 10:08
Operator : SY/MD
Sample : VL0429ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

Quant Time: Apr 30 01:17:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration



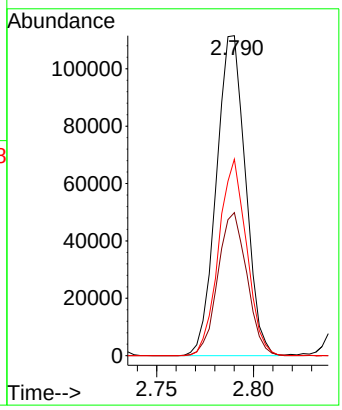


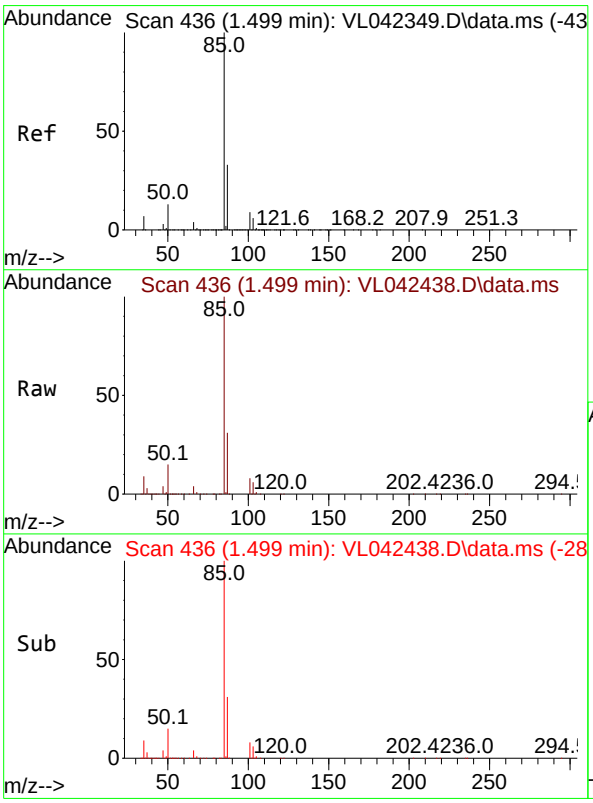

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

Tgt Ion: 49 Resp: 116772

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 44.5 | 22.8 | 68.4 |
| 130 | 58.8 | 29.3 | 88.0 |

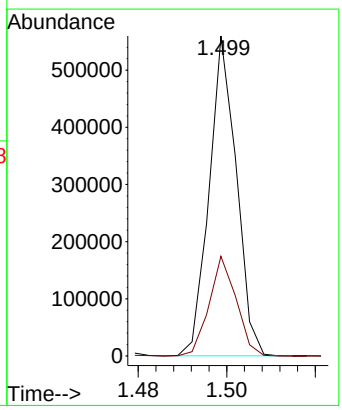


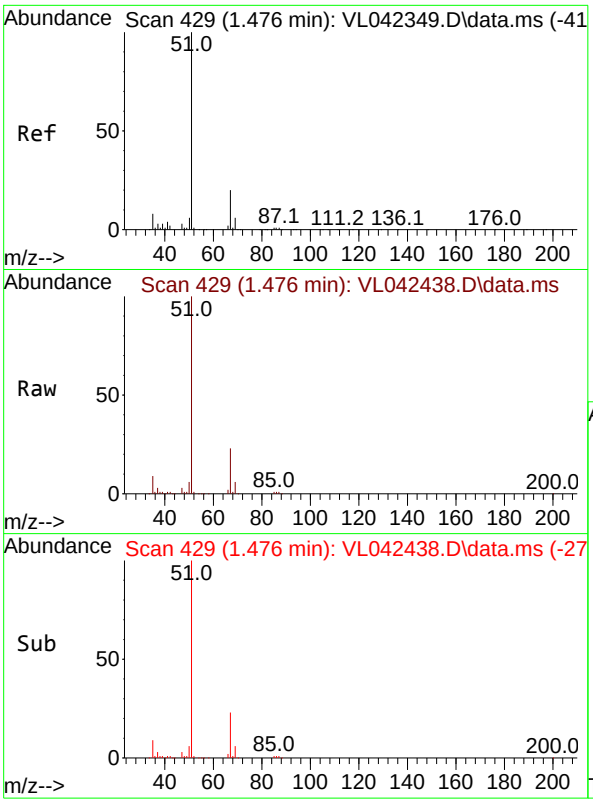




#2
Dichlorodifluoromethane
Concen: 11.562 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 85 Resp: 238539

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.2 | 26.6 | 39.8 |



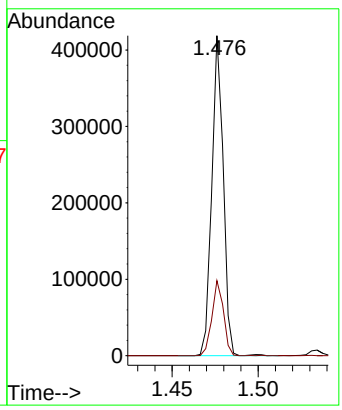


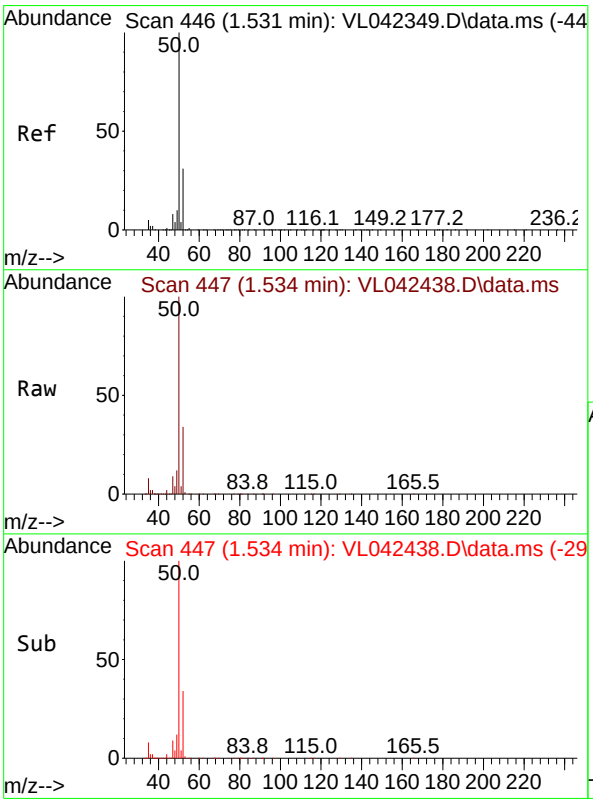

#3
Chlorodifluoromethane
Concen: 9.807 ppbv
RT: 1.476 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

Tgt Ion: 51 Resp: 192670

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 23.8 | 16.2 | 24.4 |

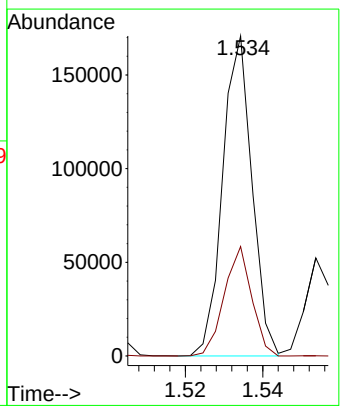


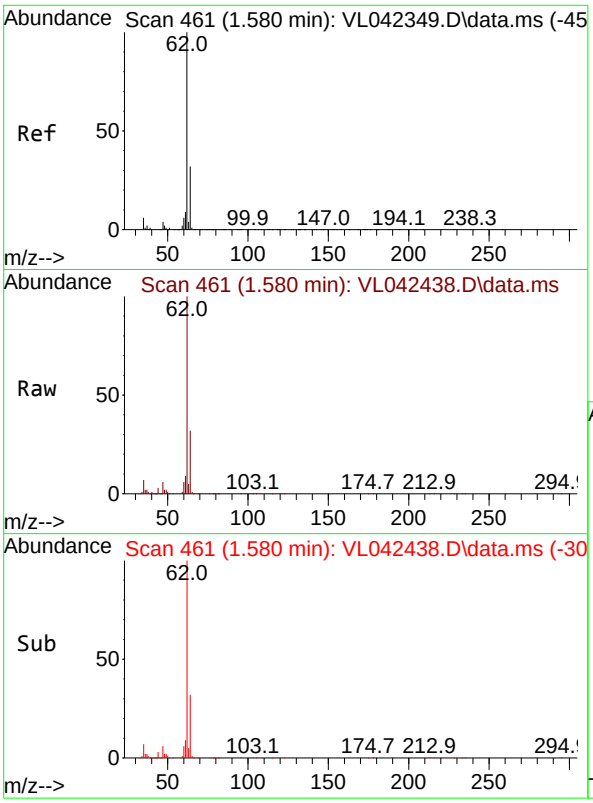




#4
Chloromethane
Concen: 11.003 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 50 Resp: 89832

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 34.2 | 24.7 | 37.1 |



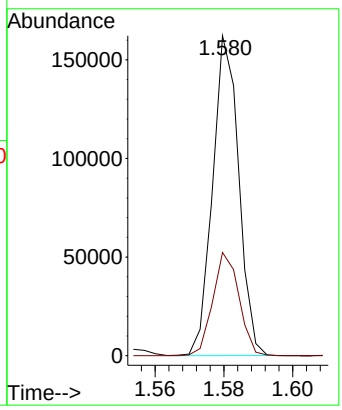


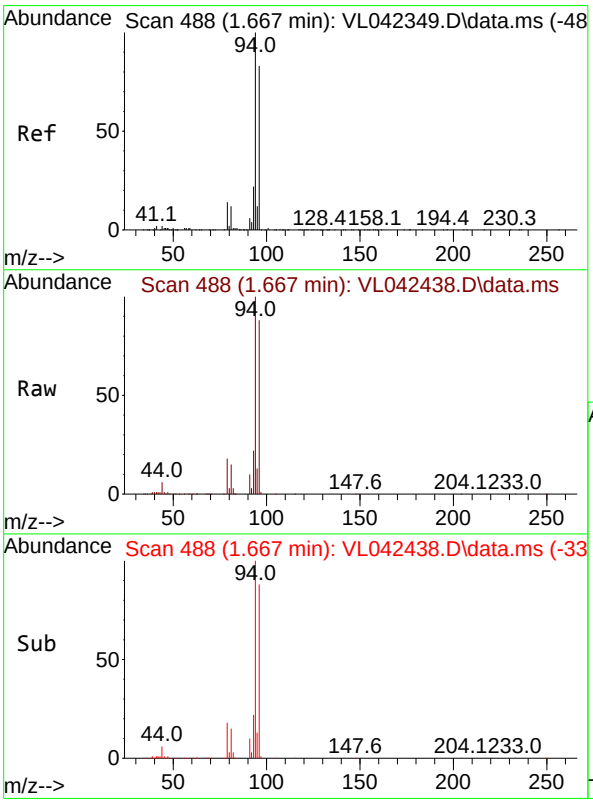

#5
Vinyl Chloride
Concen: 9.601 ppbv
RT: 1.580 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

Tgt Ion: 62 Resp: 85334

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.3 | 25.4 | 38.0 |

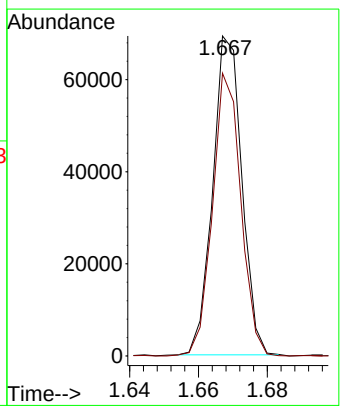


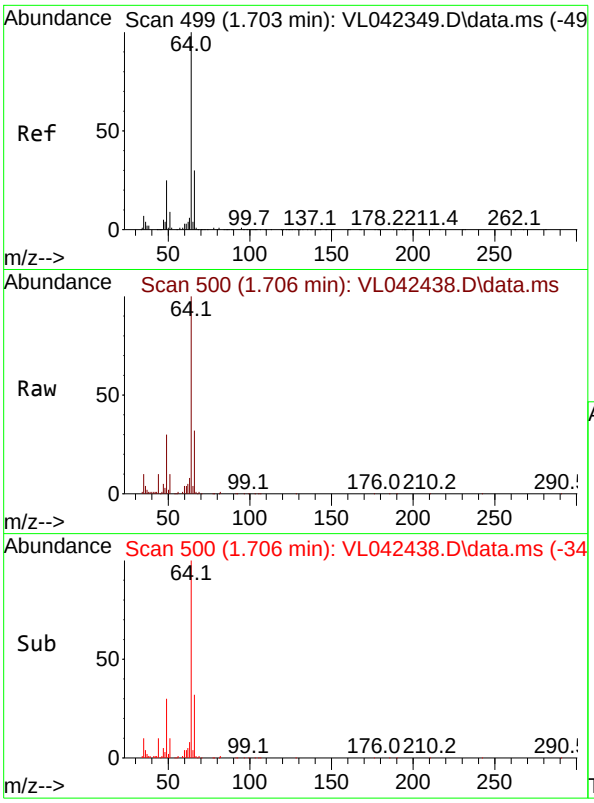




#6
Bromomethane
Concen: 10.676 ppbv
RT: 1.667 min Scan# 488
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 94 Resp: 40758

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 88.5 | 66.2 | 99.2 |



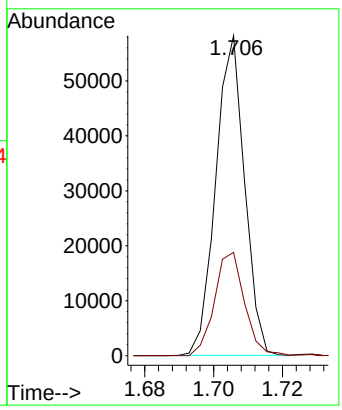


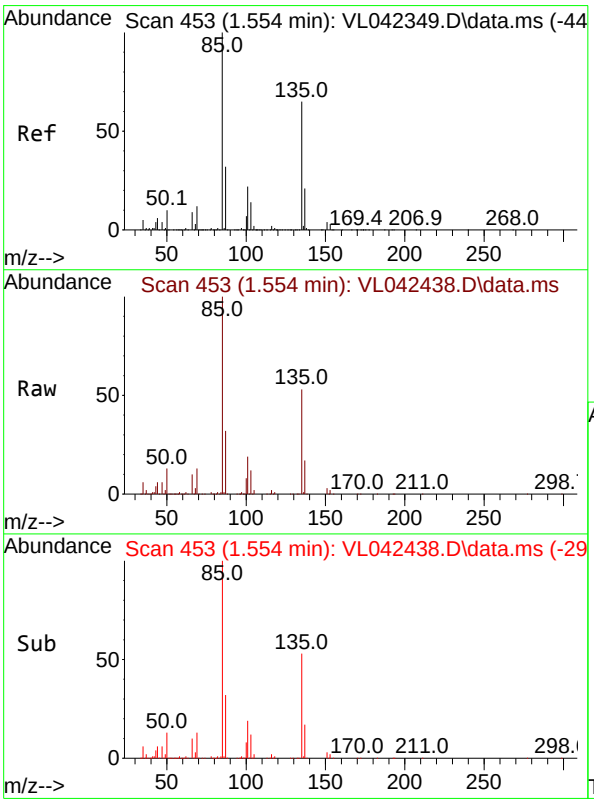

#7
Chloroethane
Concen: 10.502 ppbv
RT: 1.706 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

Tgt Ion: 64 Resp: 33756

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.3 | 24.6 | 37.0 |

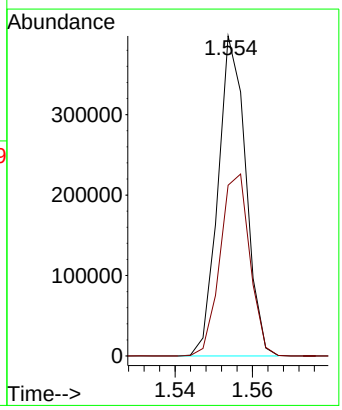


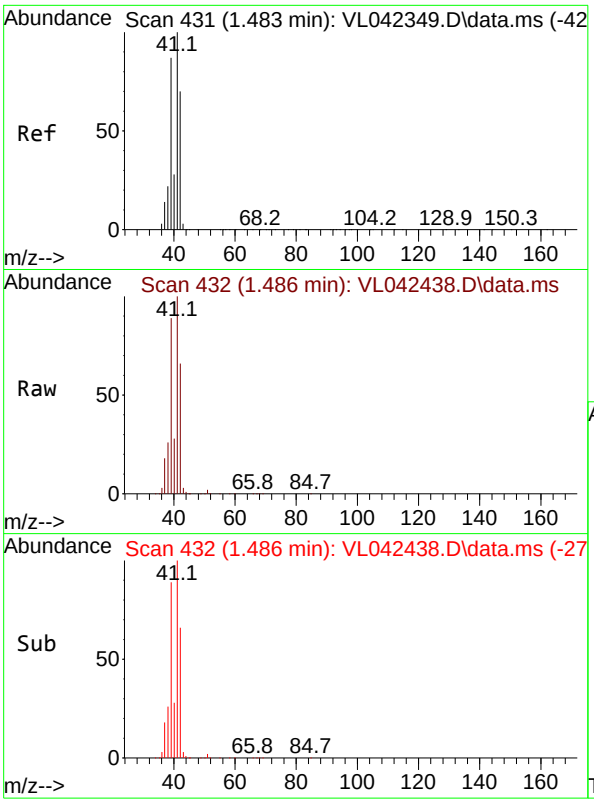




#8
Dichlorotetrafluoroethane
Concen: 11.184 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 85 Resp: 198106

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 61.2 | 52.2 | 78.2 |



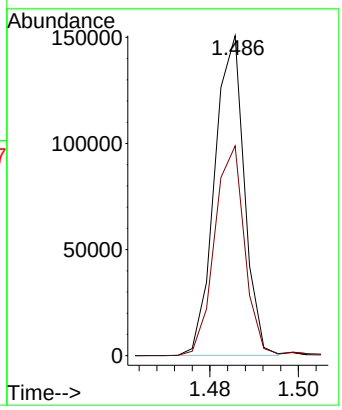


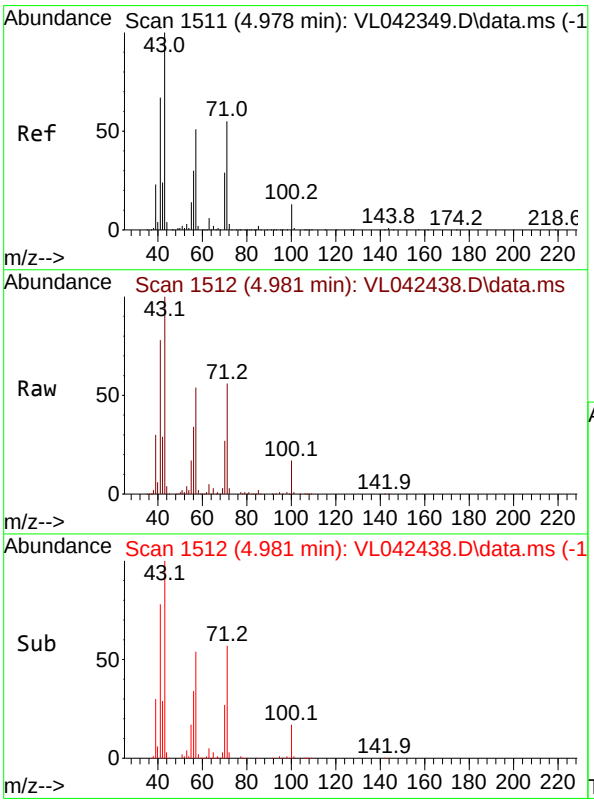

#9
Propene
Concen: 7.836 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

Tgt Ion: 41 Resp: 70111

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 67.7 | 56.2 | 84.4 |

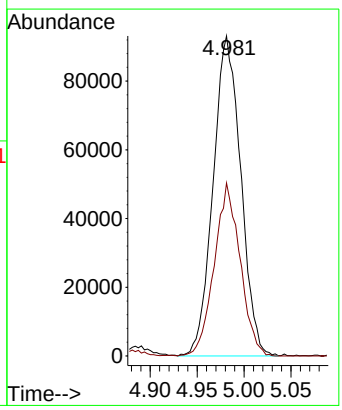


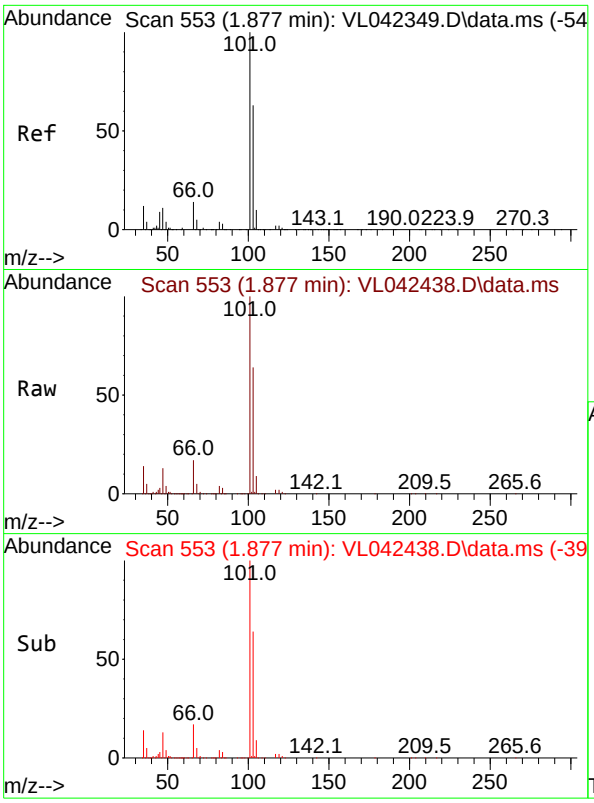




#10
Heptane
Concen: 7.582 ppbv
RT: 4.981 min Scan# 1512
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 43 Resp: 190583

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 50.6 | 39.9 | 59.9 |



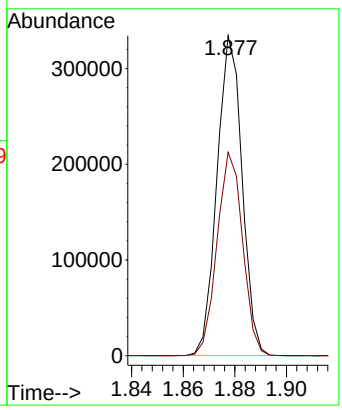


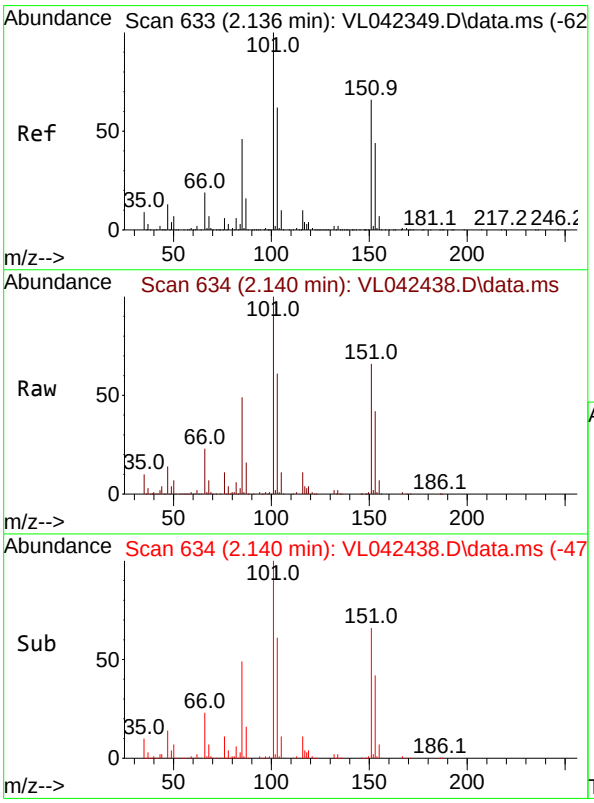

#11
Trichlorofluoromethane
Concen: 11.484 ppbv
RT: 1.877 min Scan# 5
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

Tgt Ion:101 Resp: 225308

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.6 | 50.1 | 75.1 |

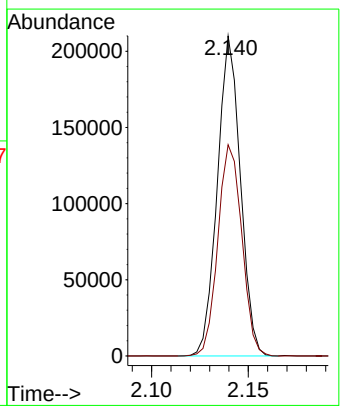


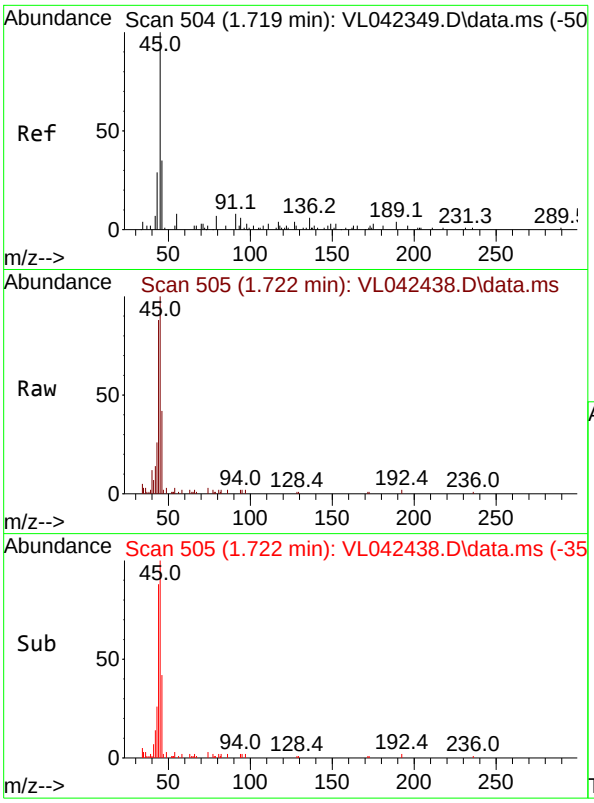




#12
1,1,2-Trichlorotrifluoroethane
Concen: 10.854 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion:101 Resp: 174111

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 68.5 | 57.0 | 85.6 |



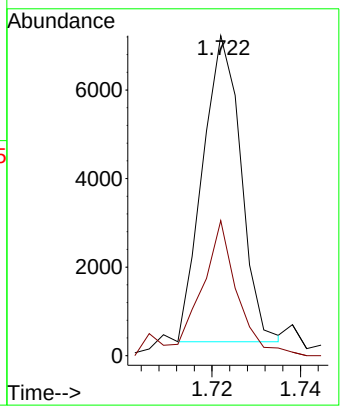


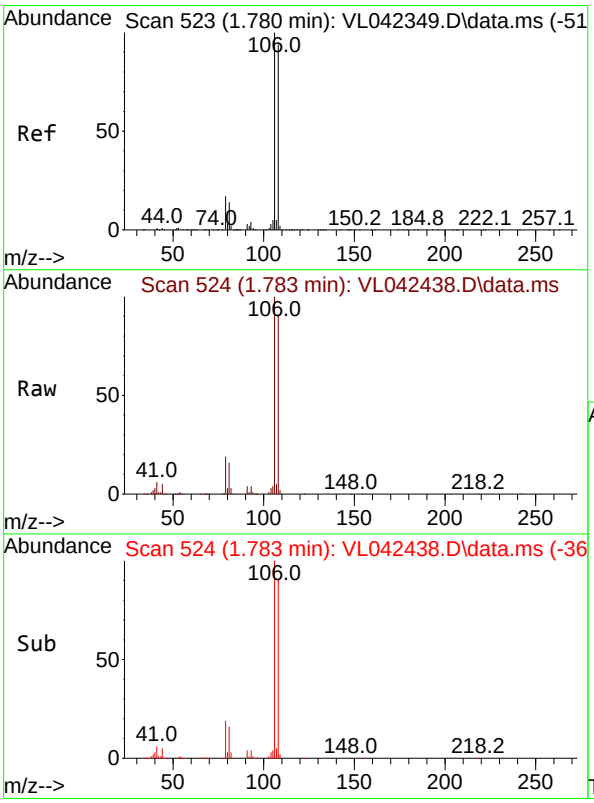

#13
Ethanol
Concen: 2.909 ppbv
RT: 1.722 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

Tgt Ion: 45 Resp: 4137

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 47.5 | 21.9 | 87.7 |

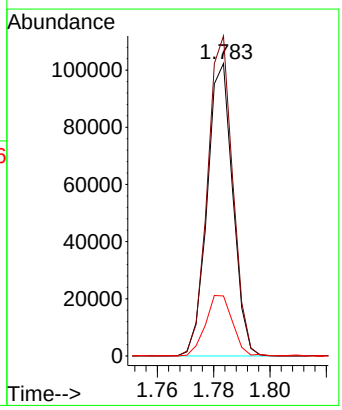


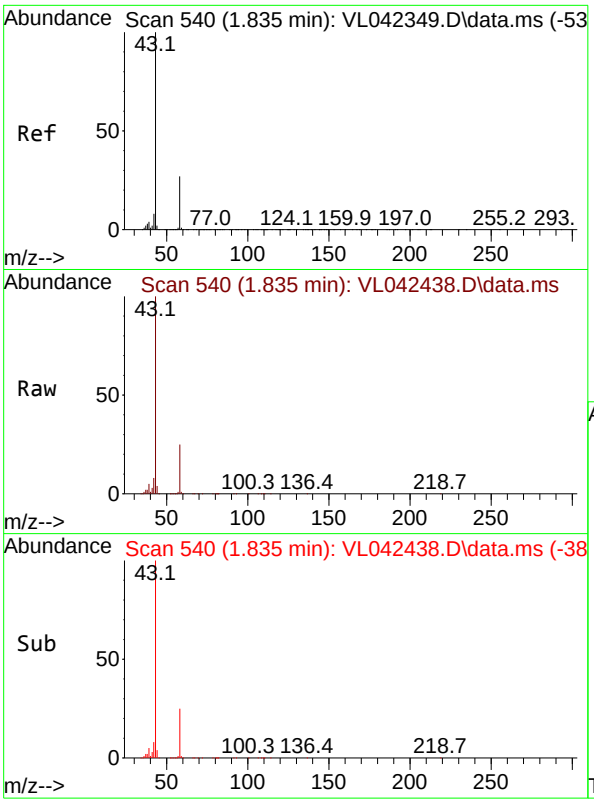




#14
Bromoethene
Concen: 10.674 ppbv
RT: 1.783 min Scan# 524
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion:108 Resp: 64544

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 106 | 108.0 | 85.9 | 128.9 |
| 79 | 22.1 | 13.9 | 20.9# |



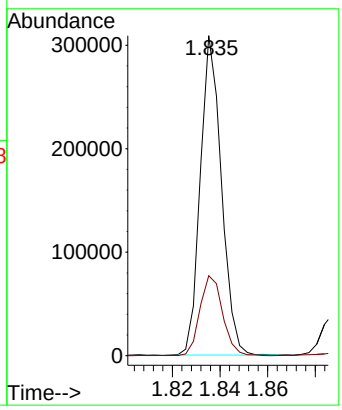


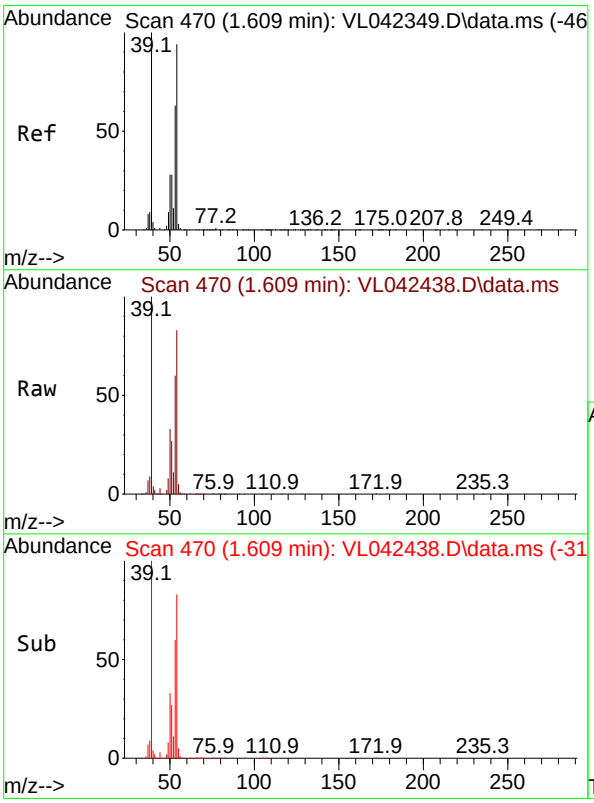

#15
Acetone
Concen: 9.910 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

Tgt Ion: 43 Resp: 189432

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 27.1 | 22.4 | 33.6 |

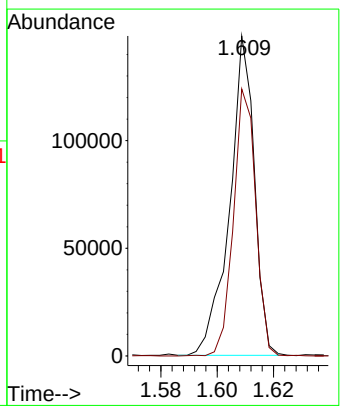


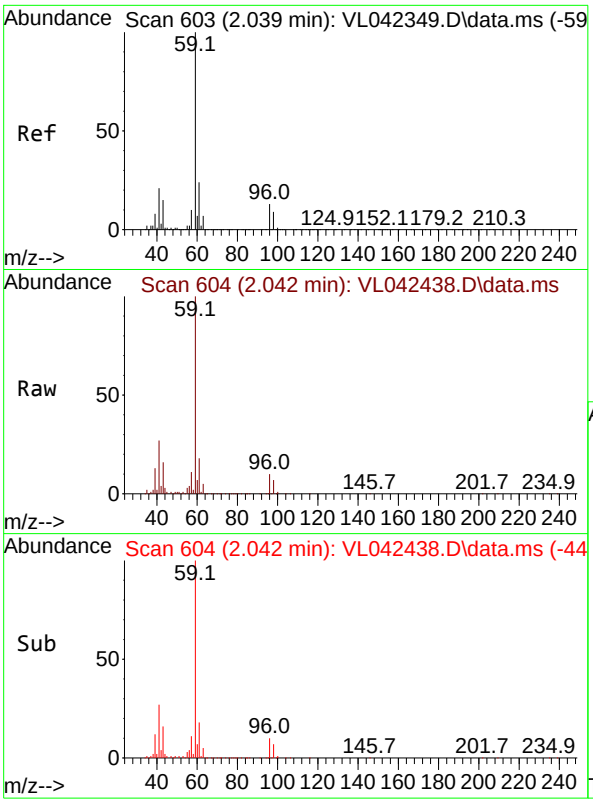




#16
1,3-Butadiene
Concen: 9.895 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 39 Resp: 90473

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 75.1 | 64.9 | 97.3 |



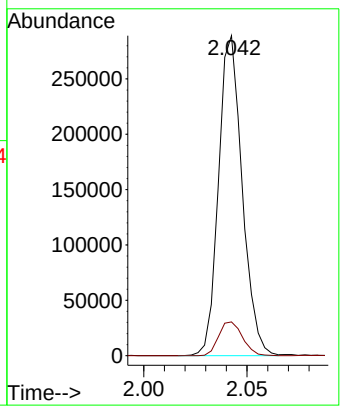


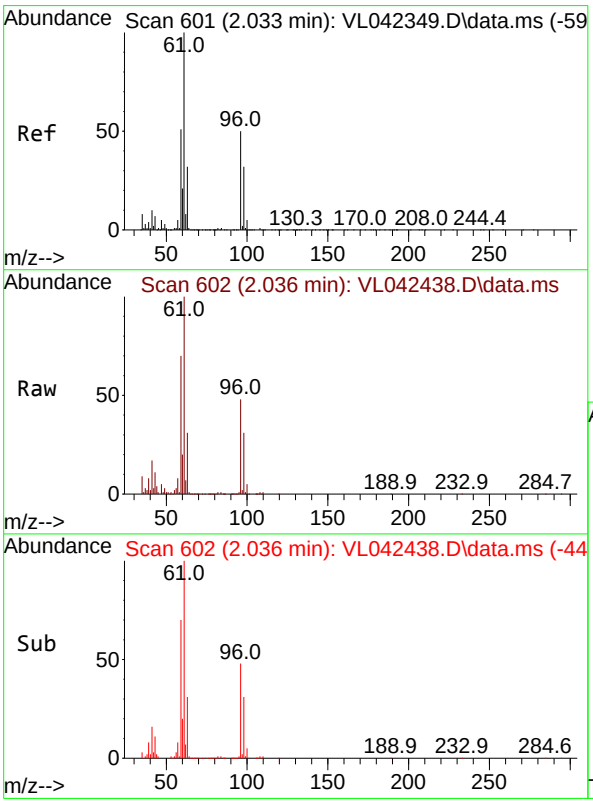

#17
tert-Butyl alcohol
Concen: 9.718 ppbv
RT: 2.042 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

Tgt Ion: 59 Resp: 230217

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.7 | 8.7 | 13.1 |

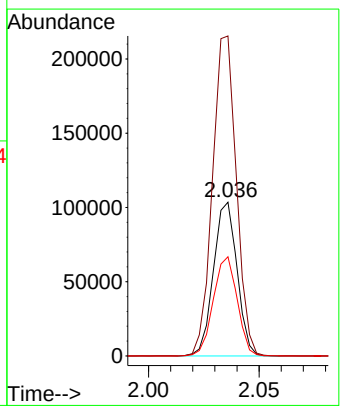


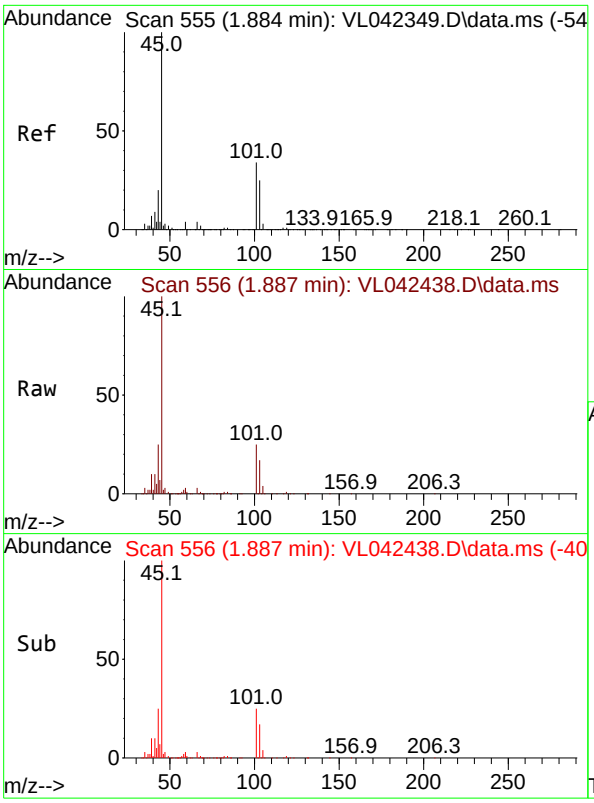




#18
1,1-Dichloroethene
Concen: 10.241 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 96 Resp: 76749

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 208.1 | 160.2 | 240.2 |
| 98 | 64.5 | 51.0 | 76.4 |



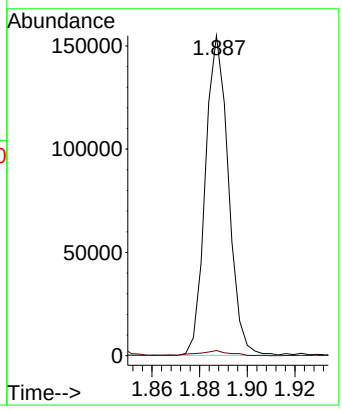


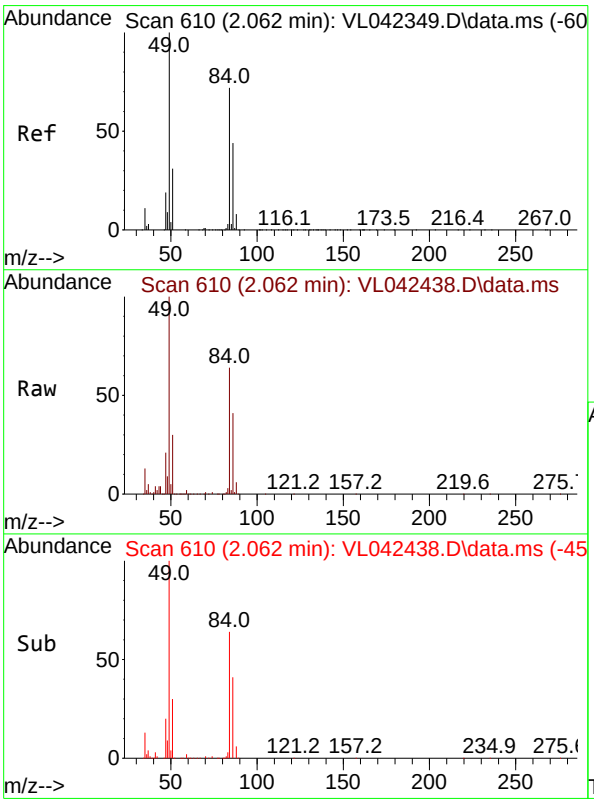

#19
Isopropyl Alcohol
Concen: 9.765 ppbv
RT: 1.887 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

Tgt Ion: 45 Resp: 103692

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 2.2 | 34.5 | 51.7# |

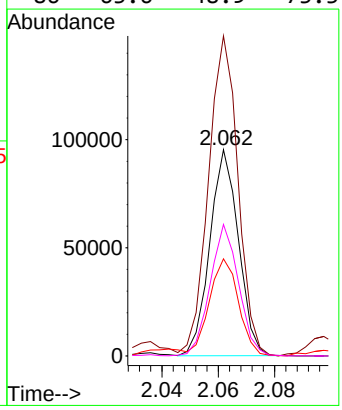


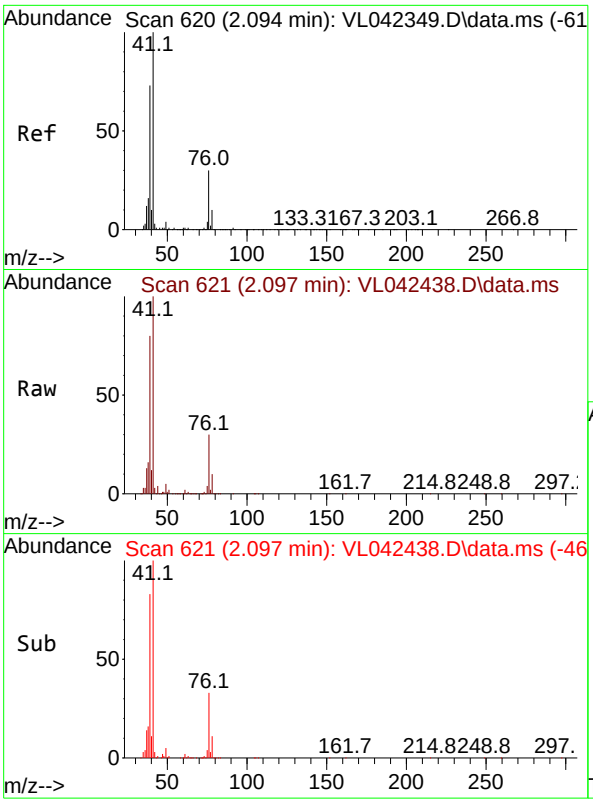




#20
Methylene Chloride
Concen: 8.989 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 84 Resp: 67298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 155.2 | 111.6 | 167.4 |
| 51 | 47.0 | 35.1 | 52.7 |
| 86 | 63.6 | 48.9 | 73.3 |



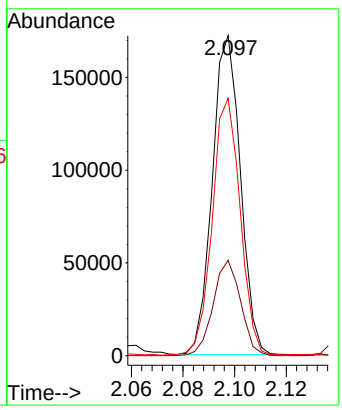


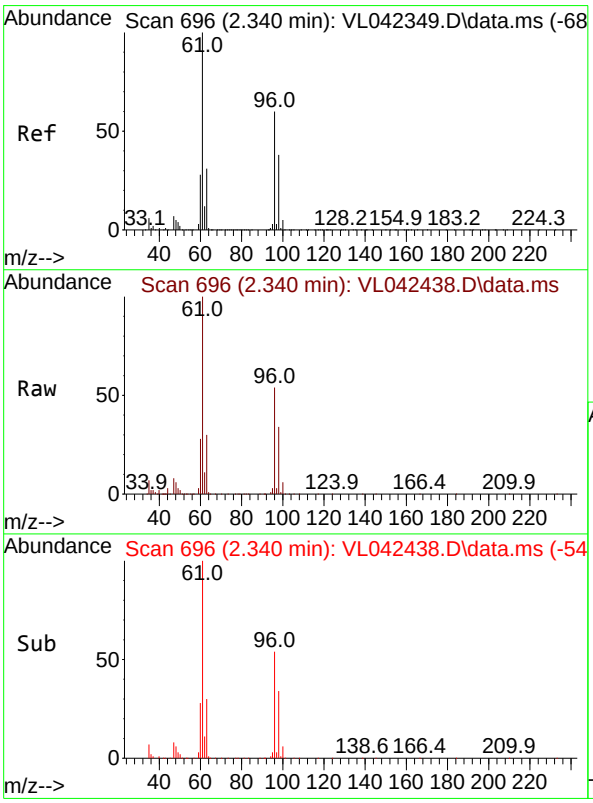

#21
Allyl Chloride
Concen: 9.851 ppbv
RT: 2.097 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

Tgt Ion: 41 Resp: 130014

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 29.2 | 24.8 | 37.2 |
| 39 | 80.1 | 60.6 | 90.8 |

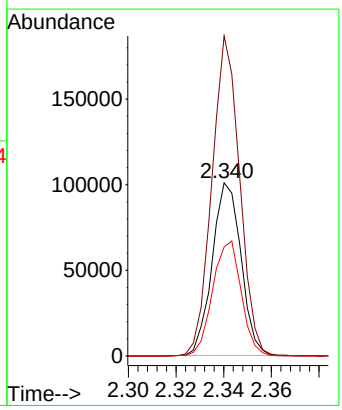


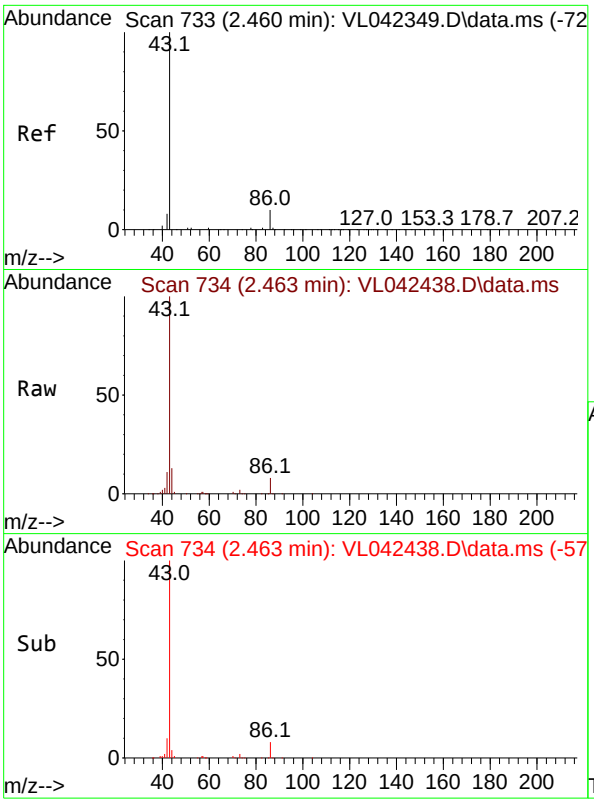




#22
trans-1,2-Dichloroethene
Concen: 9.938 ppbv
RT: 2.340 min Scan# 696
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 96 Resp: 84797

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 185.1 | 133.7 | 200.5 |
| 98 | 63.1 | 50.3 | 75.5 |



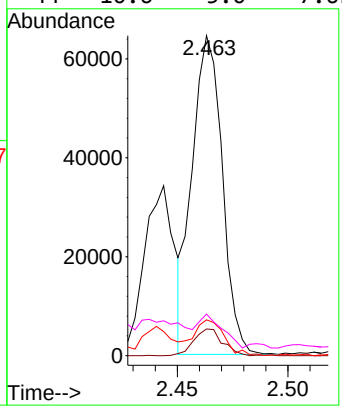


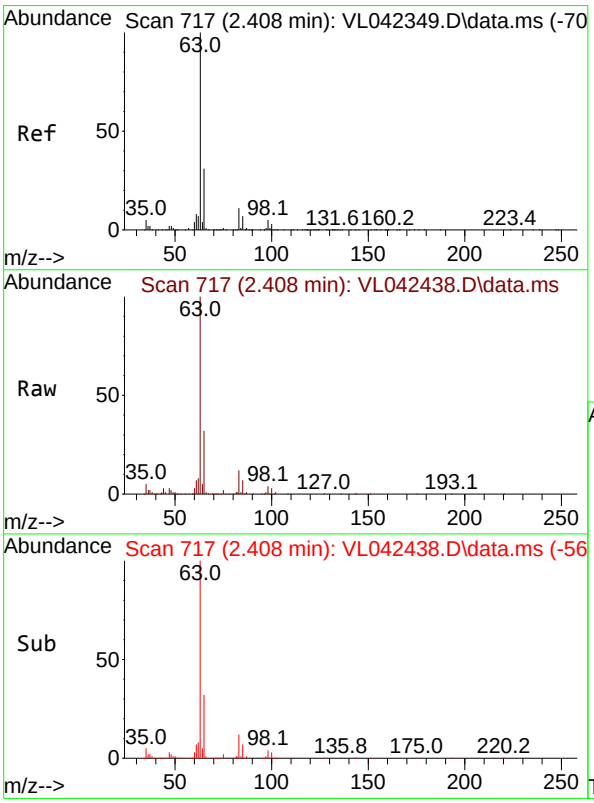

#23
Vinyl Acetate
Concen: 7.888 ppbv
RT: 2.463 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

Tgt Ion: 43 Resp: 61036

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 8.4 | 6.5 | 9.7 |
| 42 | 11.0 | 7.8 | 11.8 |
| 44 | 10.6 | 5.0 | 7.6# |

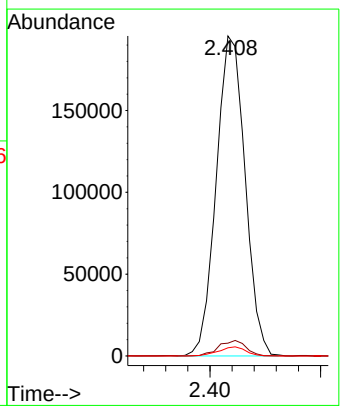


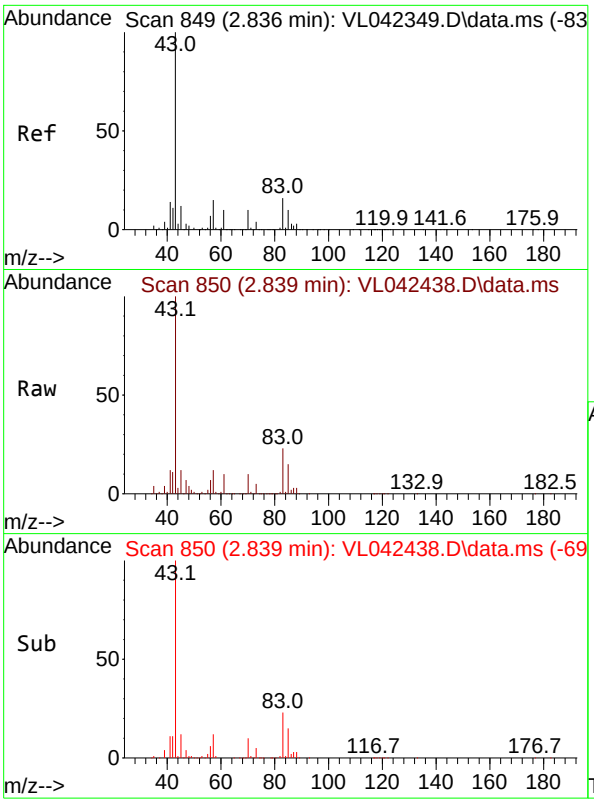




#24
1,1-Dichloroethane
Concen: 10.934 ppbv
RT: 2.408 min Scan# 717
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 63 Resp: 177233

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 4.0 | 2.3 | 6.8 |
| 100 | 2.6 | 1.6 | 4.8 |



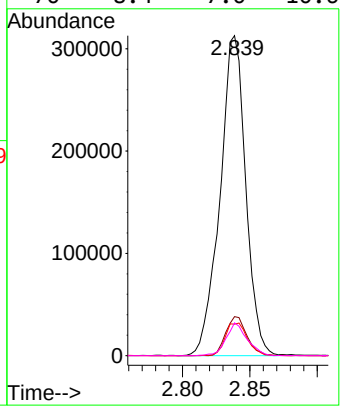


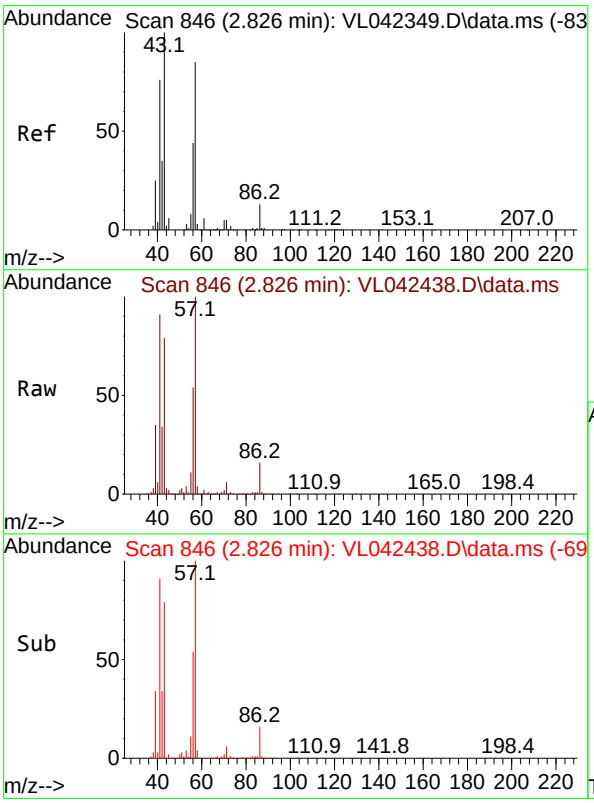

#25
Ethyl Acetate
Concen: 8.836 ppbv
RT: 2.839 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

Tgt Ion: 43 Resp: 416465

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 10.0 | 8.3 | 12.5 |
| 61 | 8.8 | 7.3 | 10.9 |
| 70 | 8.4 | 7.0 | 10.6 |

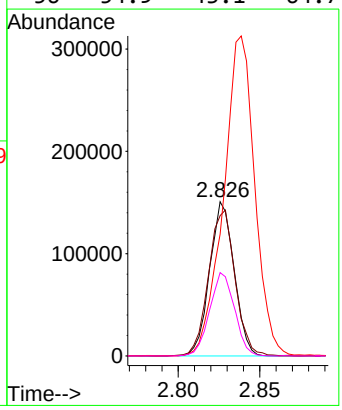


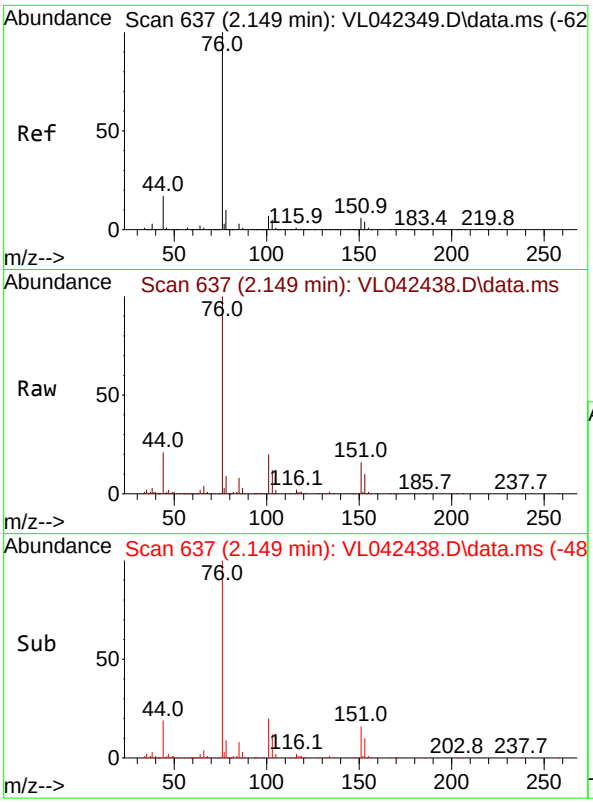




#26
Hexane
Concen: 8.260 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 57 Resp: 157544

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 103.2 | 77.9 | 116.9 |
| 43 | 265.6 | 208.4 | 312.6 |
| 56 | 54.9 | 43.1 | 64.7 |



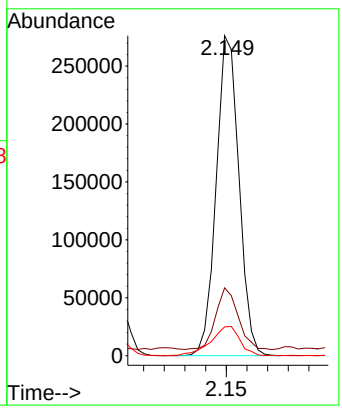


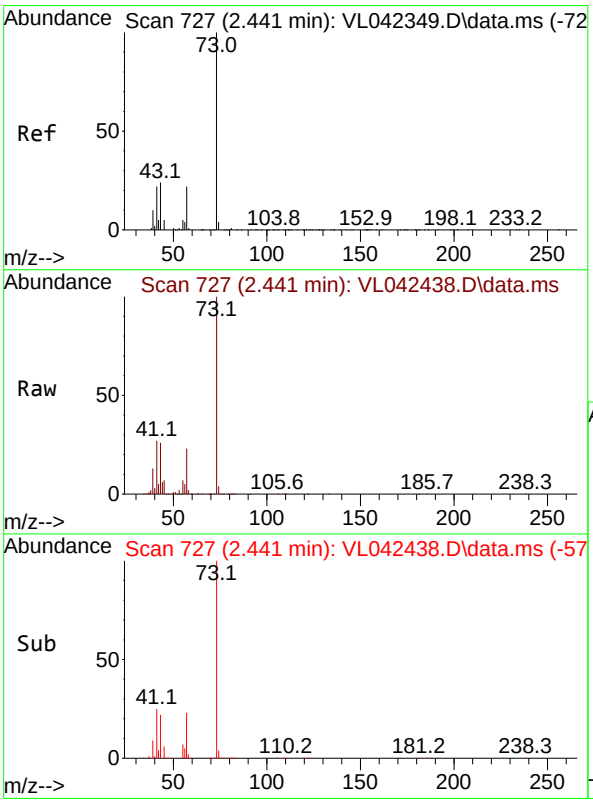

#27
Carbon Disulfide
Concen: 10.372 ppbv
RT: 2.149 min Scan# 6
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

Tgt Ion: 76 Resp: 211824

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 19.8 | 15.5 | 23.3 |
| 78 | 11.7 | 9.3 | 13.9 |

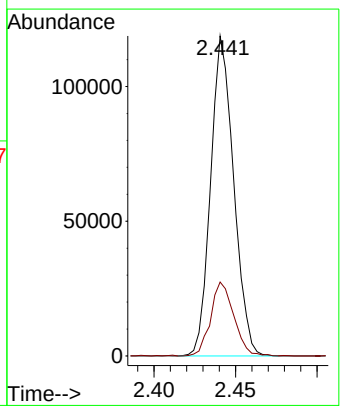


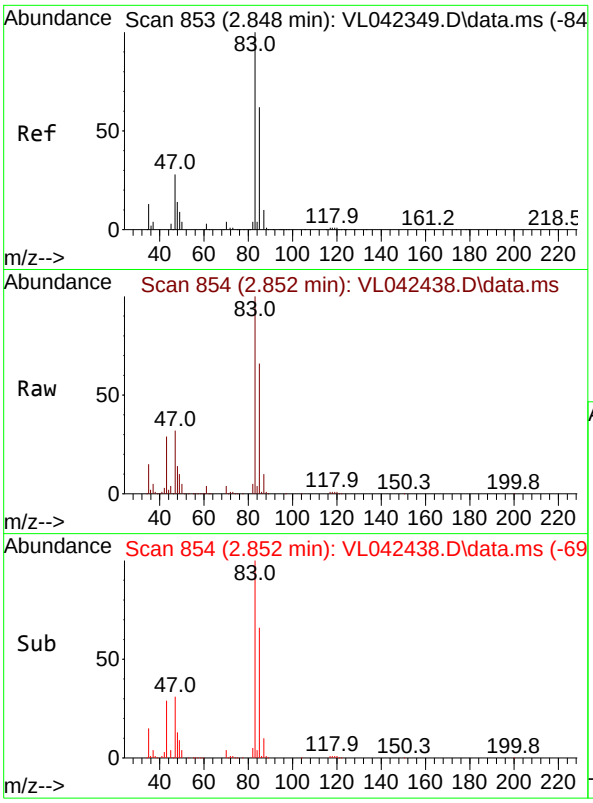




#28
Methyl tert-Butyl Ether
Concen: 9.344 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 73 Resp: 116769

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 23.4 | 21.3 | 31.9 |



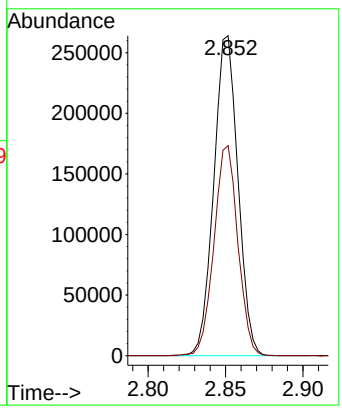


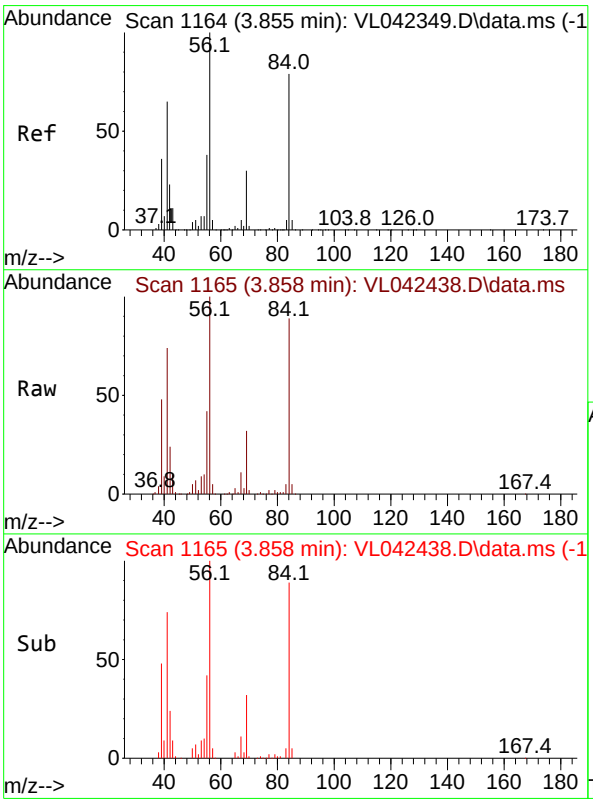

#29
Chloroform
Concen: 10.623 ppbv
RT: 2.852 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

Tgt Ion: 83 Resp: 286397

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.6 | 50.0 | 75.0 |

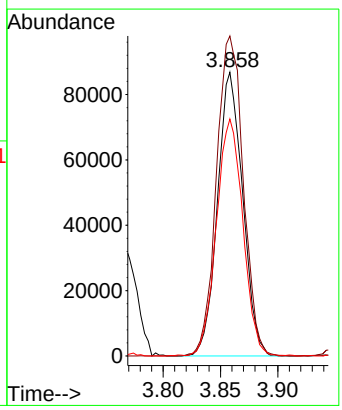


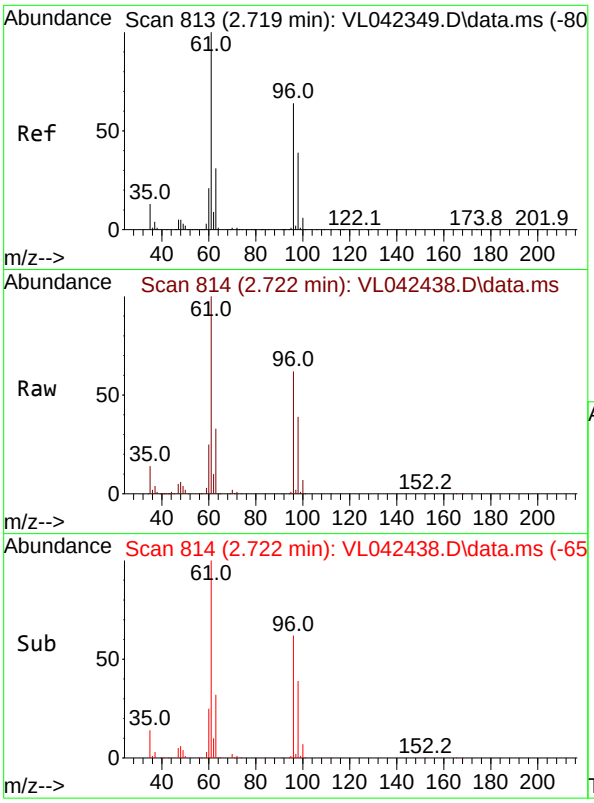




#30
Cyclohexane
Concen: 8.601 ppbv
RT: 3.858 min Scan# 1165
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 84 Resp: 132615

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 119.9 | 101.0 | 151.4 |
| 41 | 88.0 | 67.4 | 101.0 |



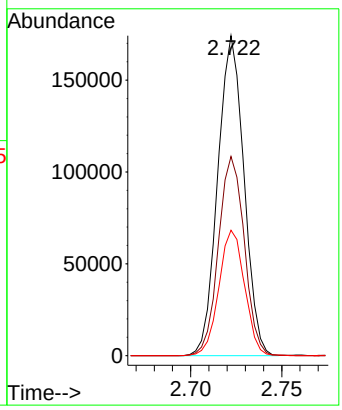


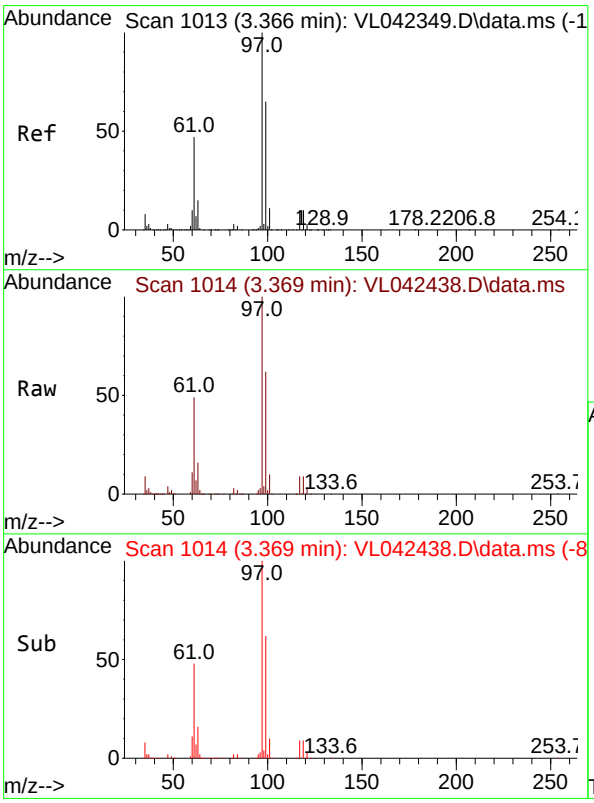

#31
cis-1,2-Dichloroethene
Concen: 9.613 ppbv
RT: 2.722 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

Tgt Ion: 61 Resp: 174328

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 62.3 | 50.8 | 76.2 |
| 98 | 39.2 | 30.9 | 46.3 |

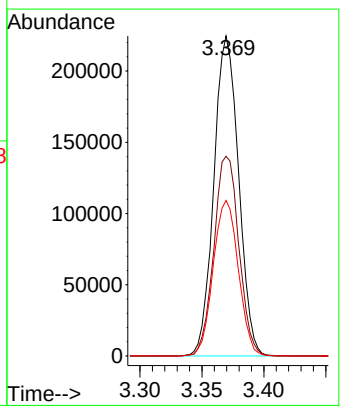


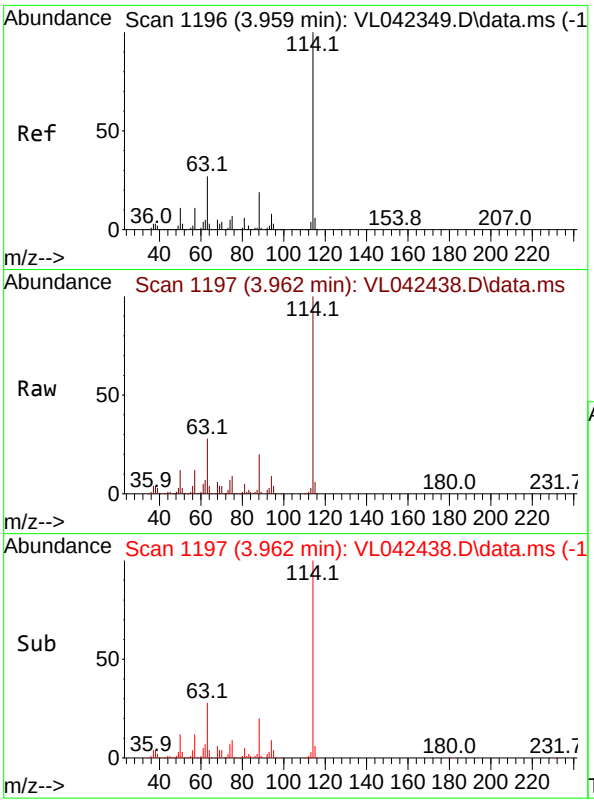




#32
1,1,1-Trichloroethane
Concen: 10.294 ppbv
RT: 3.369 min Scan# 1014
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 97 Resp: 312429

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.2 | 51.0 | 76.4 |
| 61 | 49.4 | 38.8 | 58.2 |



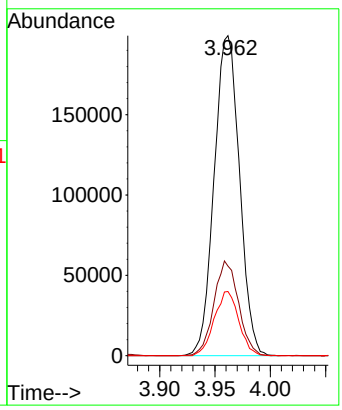


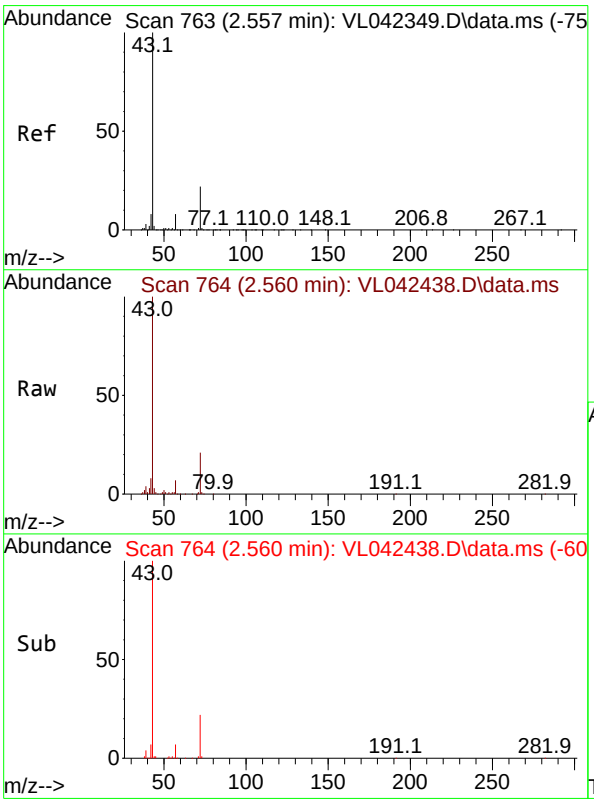

#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

Tgt Ion:114 Resp: 317590

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 28.7 | 21.8 | 32.6 |
| 88 | 19.4 | 15.5 | 23.3 |

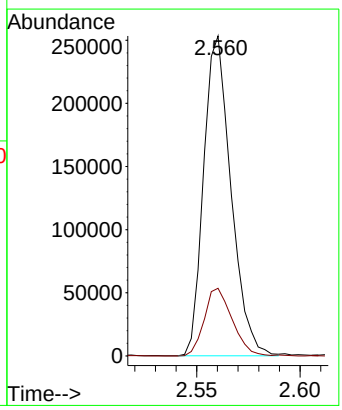


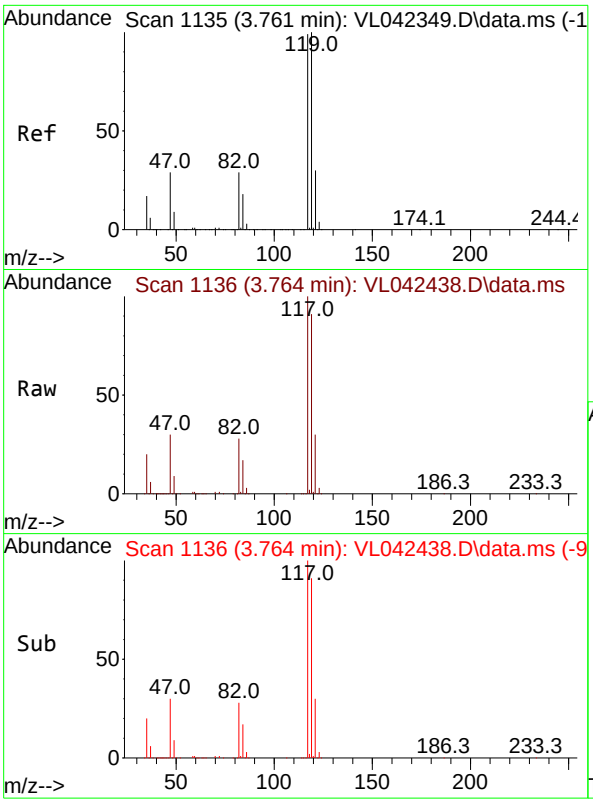




#34
2-Butanone
Concen: 9.278 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 43 Resp: 233037

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 21.7 | 18.2 | 27.2 |



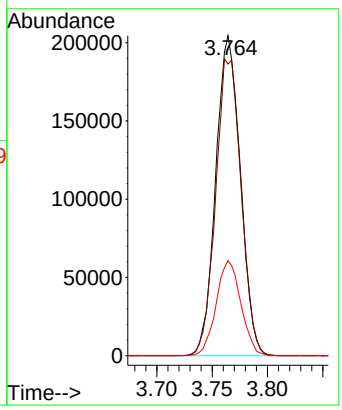


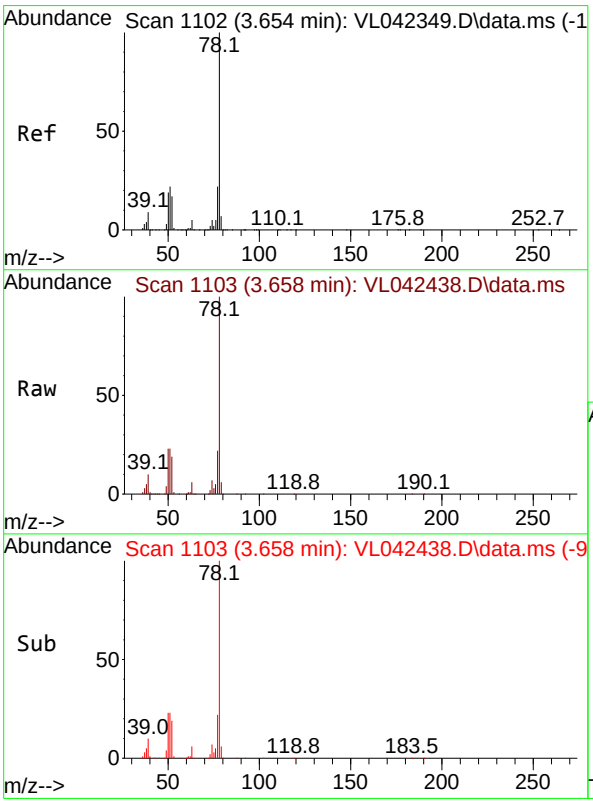

#35
Carbon Tetrachloride
Concen: 11.036 ppbv
RT: 3.764 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

Tgt Ion:117 Resp: 317207

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 91.1 | 80.5 | 120.7 |
| 121 | 29.7 | 24.2 | 36.2 |

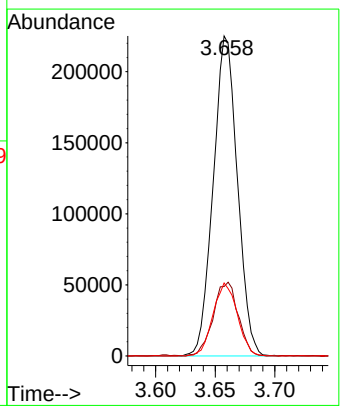


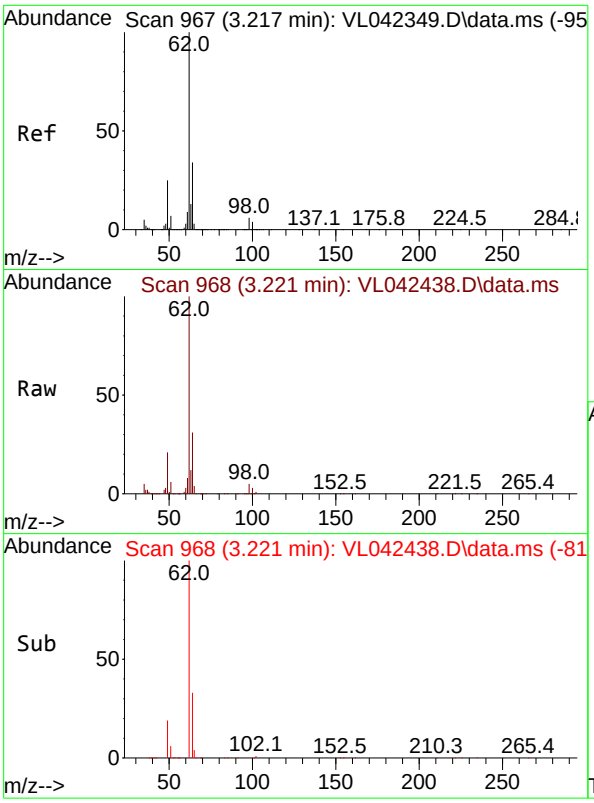




#36
Benzene
Concen: 9.264 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 78 Resp: 317350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 21.7 | 17.4 | 26.0 |
| 50 | 22.8 | 15.5 | 23.3 |



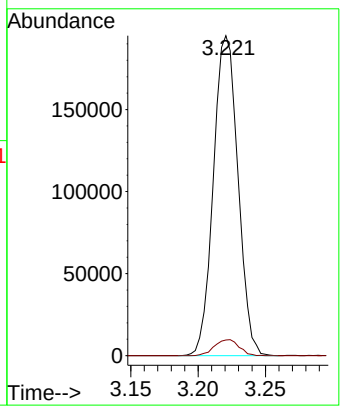


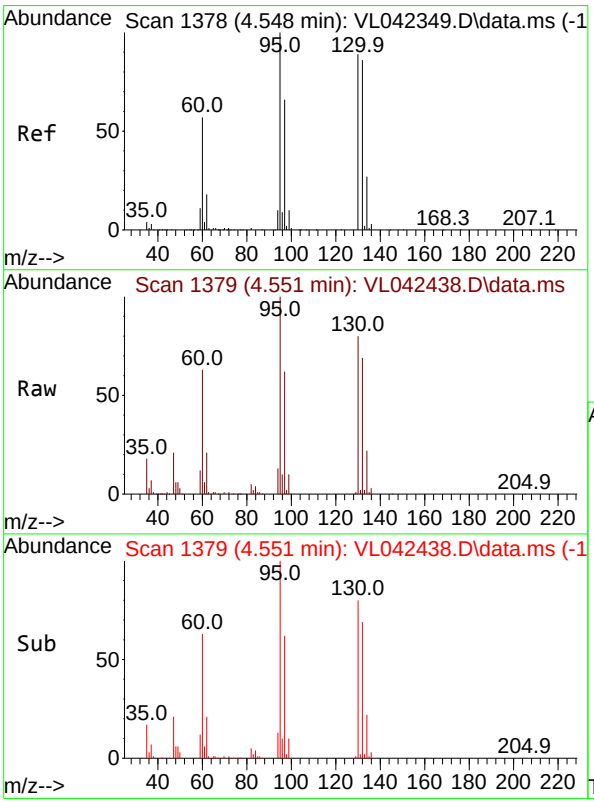

#37
1,2-Dichloroethane
Concen: 12.035 ppbv
RT: 3.221 min Scan# 9
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

Tgt Ion: 62 Resp: 247446

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 5.0 | 5.1 | 7.7# |

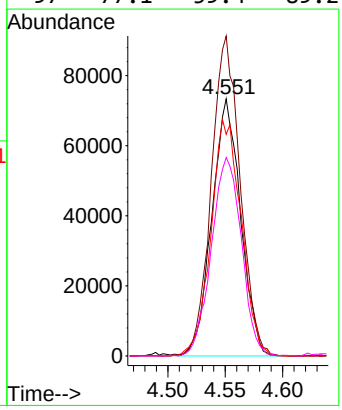


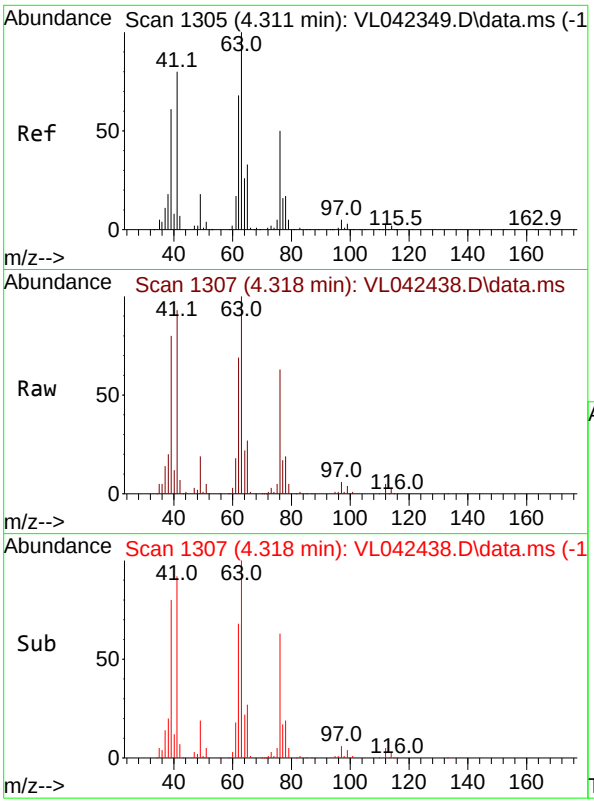




#38
Trichloroethene
Concen: 8.523 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion:130 Resp: 127601

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 124.2 | 89.8 | 134.6 |
| 132 | 86.0 | 77.7 | 116.5 |
| 97 | 77.1 | 59.4 | 89.2 |



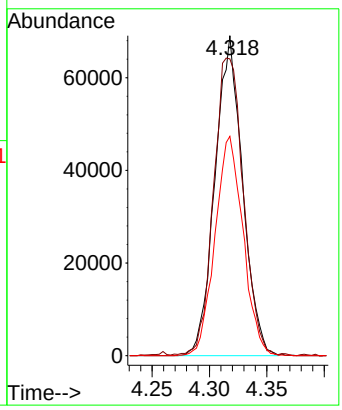


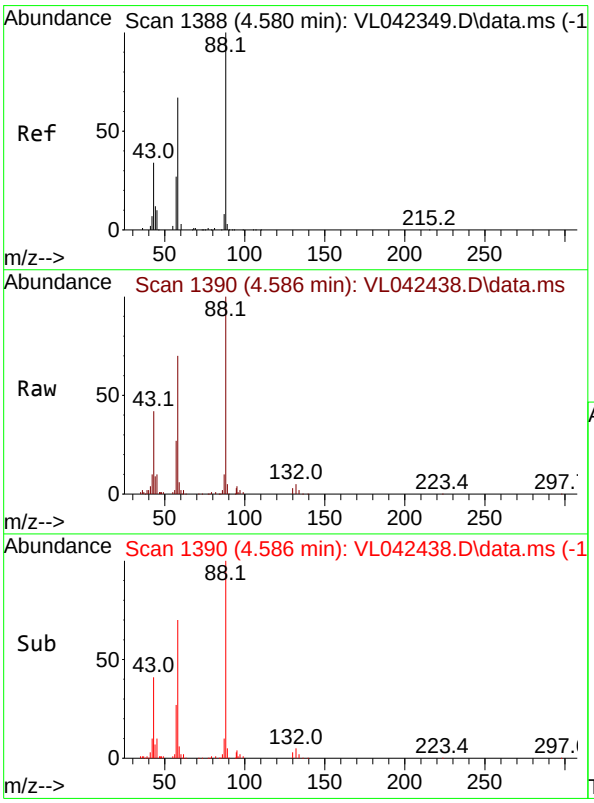

#39
1,2-Dichloropropane
Concen: 9.044 ppbv
RT: 4.318 min Scan# 1
Delta R.T. 0.006 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

Tgt Ion: 63 Resp: 115449

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 92.4 | 64.2 | 96.2 |
| 62 | 68.4 | 54.3 | 81.5 |

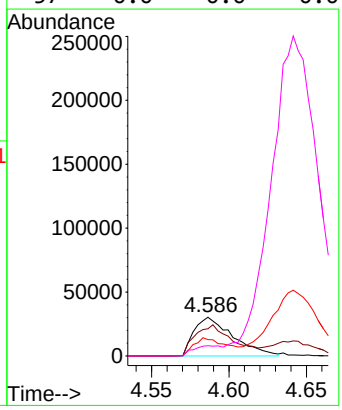


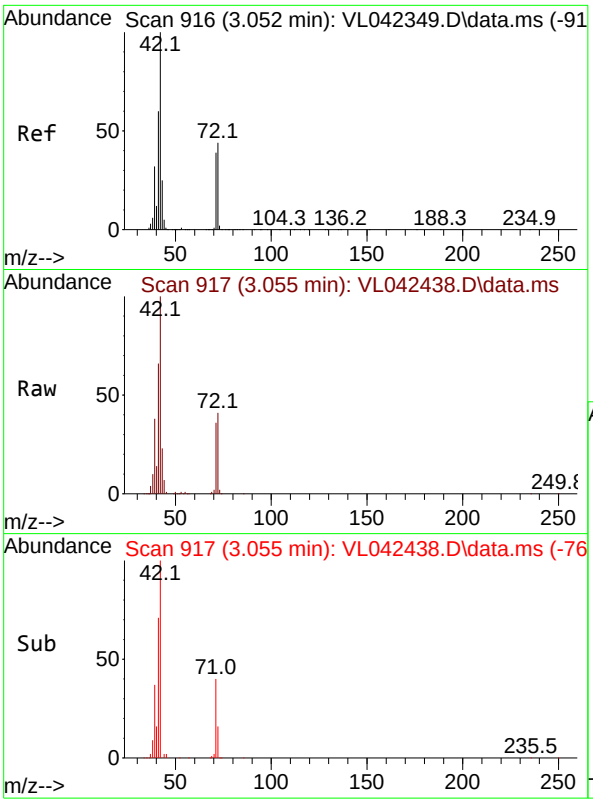




#40
1,4-Dioxane
Concen: 7.529 ppbv
RT: 4.586 min Scan# 1390
Delta R.T. 0.006 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 88 Resp: 52820

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 78.5 | 61.4 | 92.0 |
| 43 | 41.9 | 23.2 | 34.8# |
| 57 | 0.0 | 0.0 | 0.0 |



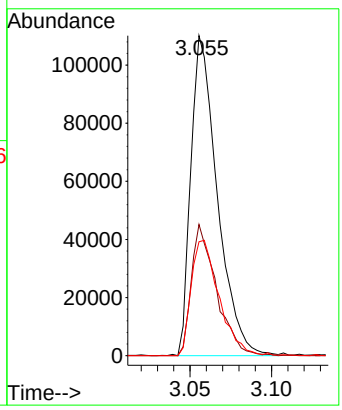


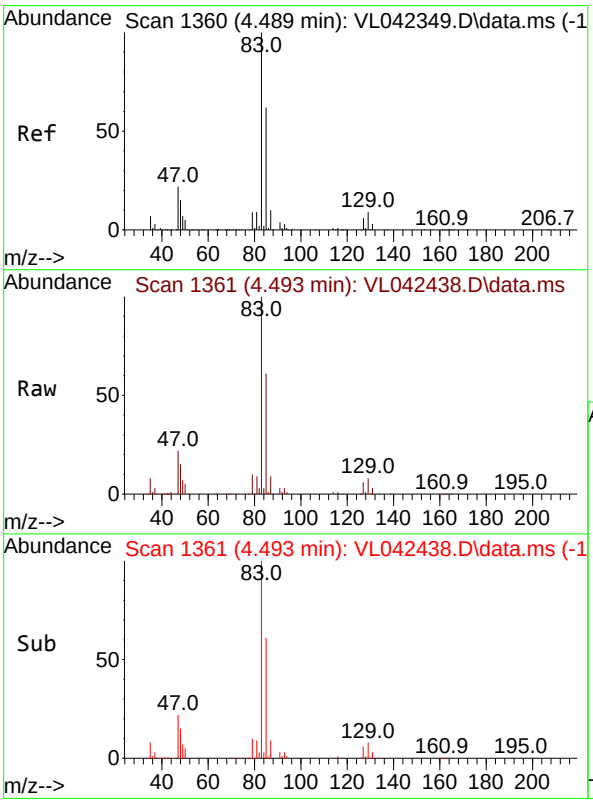

#41
Tetrahydrofuran
Concen: 8.471 ppbv
RT: 3.055 min Scan# 91
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

Tgt Ion: 42 Resp: 124059

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 38.9 | 32.3 | 48.5 |
| 71 | 38.4 | 31.4 | 47.2 |

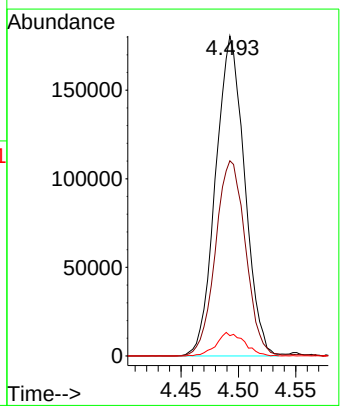


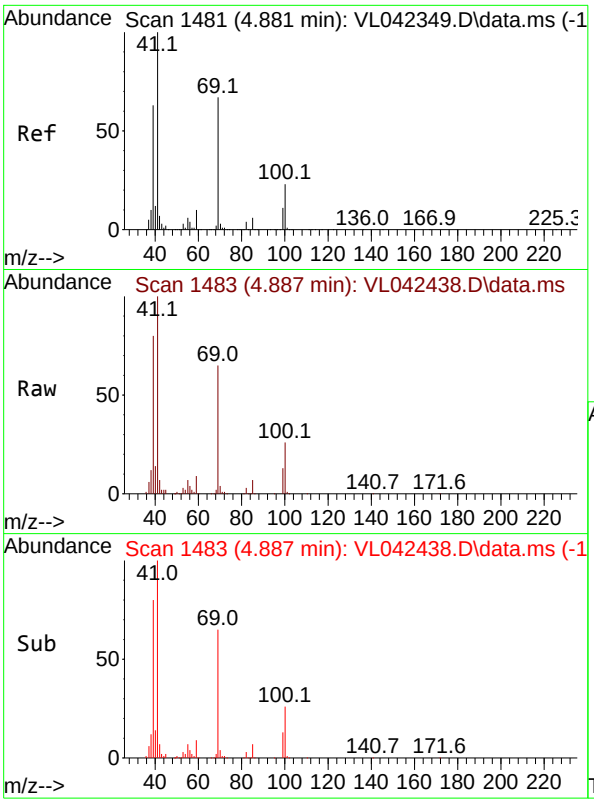




#42
Bromodichloromethane
Concen: 11.088 ppbv
RT: 4.493 min Scan# 1361
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 83 Resp: 317253

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 61.0 | 49.7 | 74.5 |
| 127 | 6.4 | 5.1 | 7.7 |



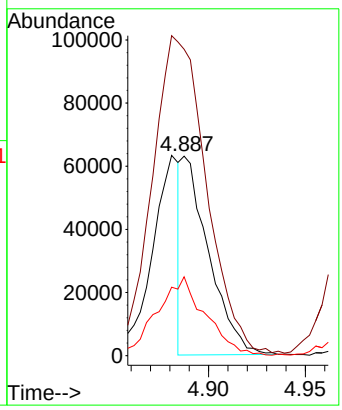


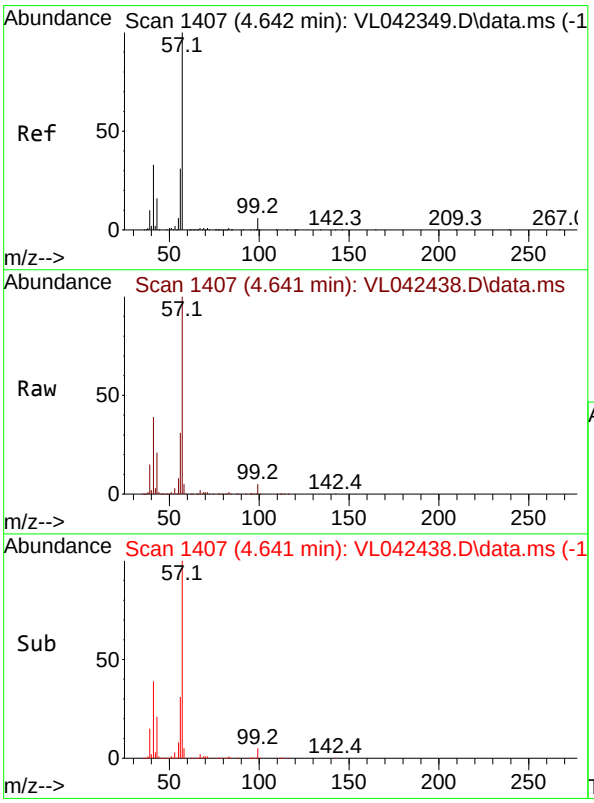

#43
Methyl Methacrylate
Concen: 3.961 ppbv
RT: 4.887 min Scan# 14
Delta R.T. 0.006 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

Tgt Ion: 69 Resp: 61150

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 0.0 | 118.6 | 177.8# |
| 100 | 71.6 | 28.2 | 42.2# |

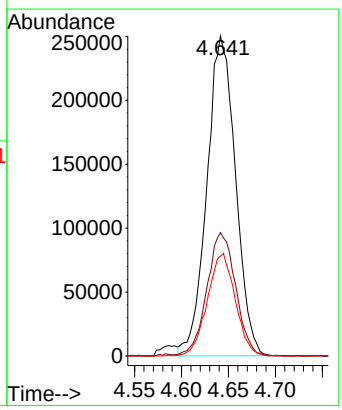


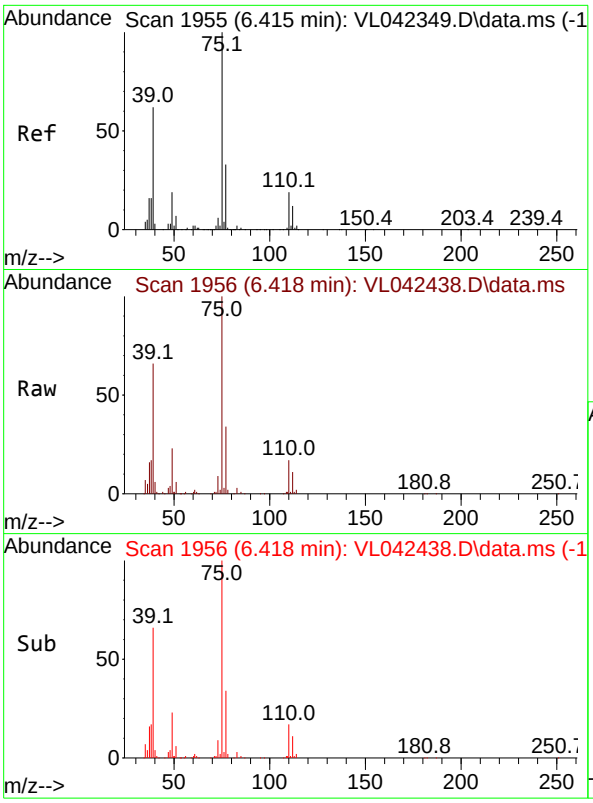




#44
2,2,4-Trimethylpentane
Concen: 8.983 ppbv
RT: 4.641 min Scan# 1407
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 57 Resp: 531439

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 39.1 | 27.2 | 40.8 |
| 56 | 31.1 | 25.7 | 38.5 |



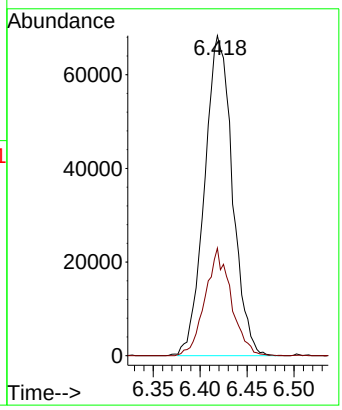


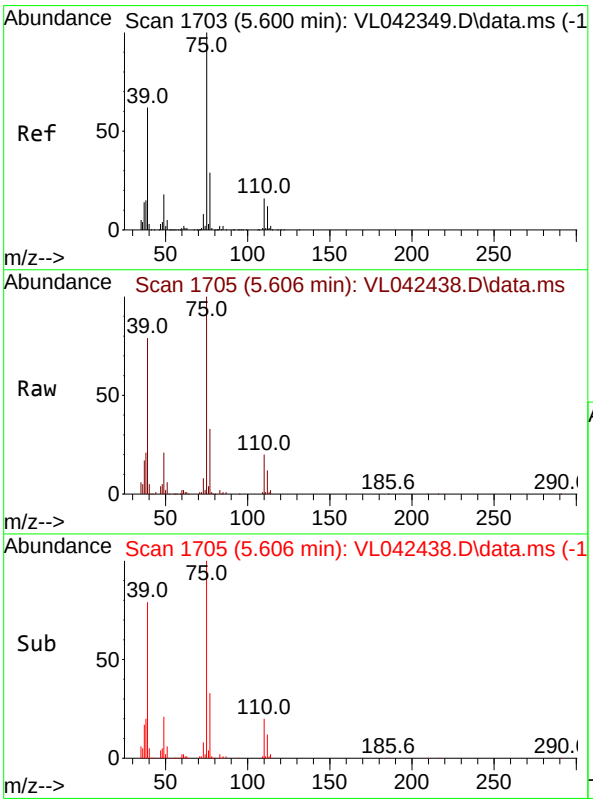

#45
t-1,3-Dichloropropene
Concen: 8.940 ppbv
RT: 6.418 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

Tgt Ion: 75 Resp: 140981

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 33.6 | 27.0 | 40.6 |

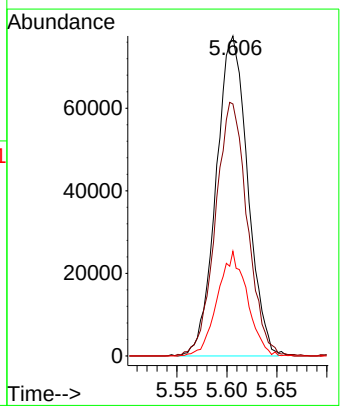


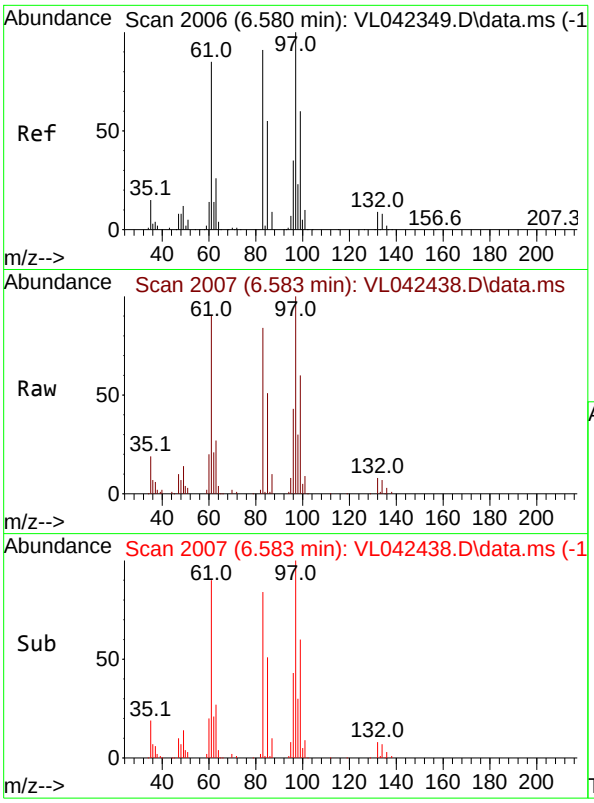




#46
cis-1,3-Dichloropropene
Concen: 8.811 ppbv
RT: 5.606 min Scan# 1705
Delta R.T. 0.006 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 75 Resp: 170063

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 39 | 78.3 | 50.0 | 75.0# |
| 77 | 32.7 | 23.0 | 34.6 |



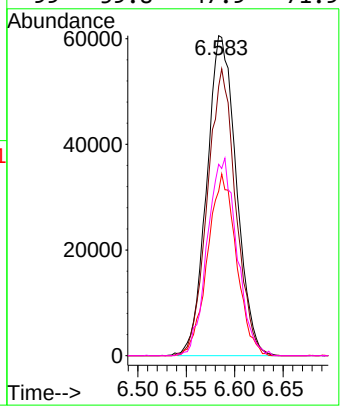


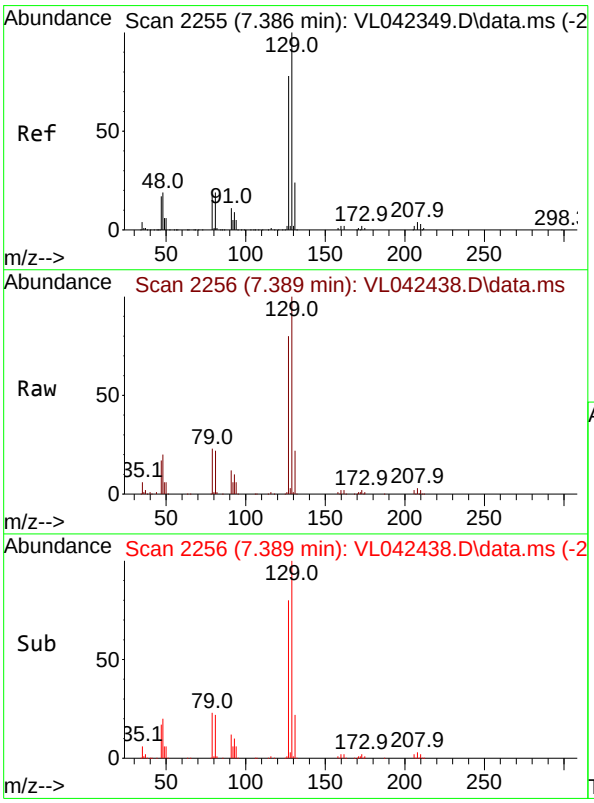

#47
1,1,2-Trichloroethane
Concen: 9.893 ppbv
RT: 6.583 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

Tgt Ion: 97 Resp: 128662

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 84.0 | 72.8 | 109.2 |
| 85 | 51.4 | 44.2 | 66.4 |
| 99 | 59.8 | 47.9 | 71.9 |

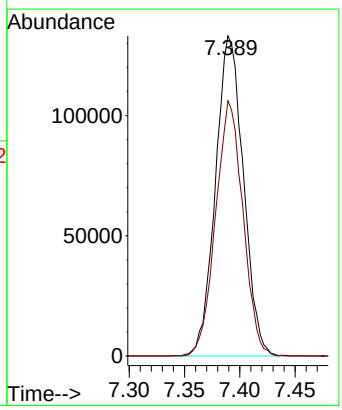


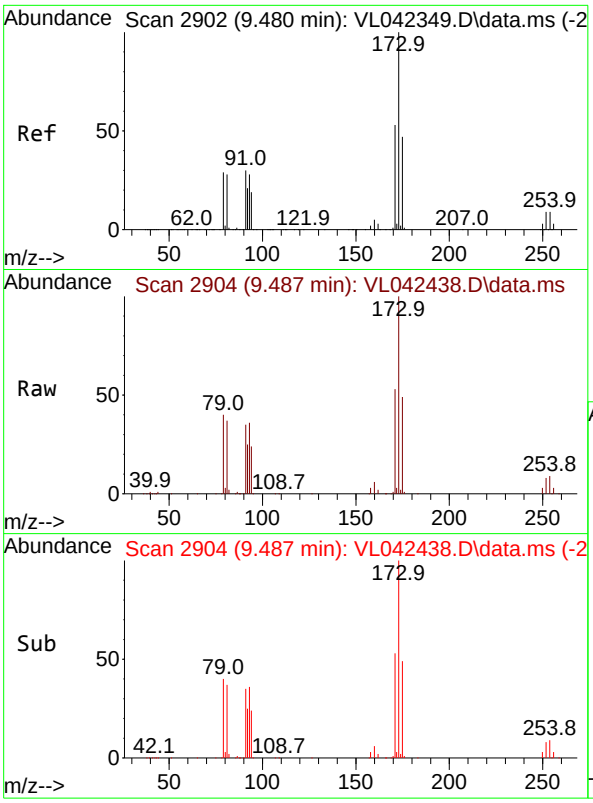




#48
Dibromochloromethane
Concen: 10.156 ppbv
RT: 7.389 min Scan# 2256
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion:129 Resp: 233350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.1 | 39.1 | 117.3 |



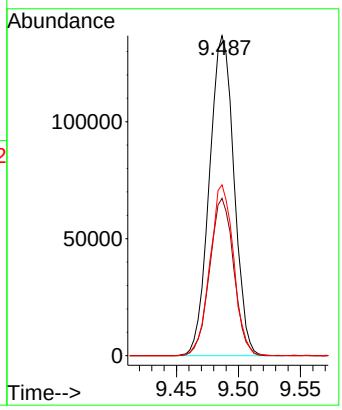


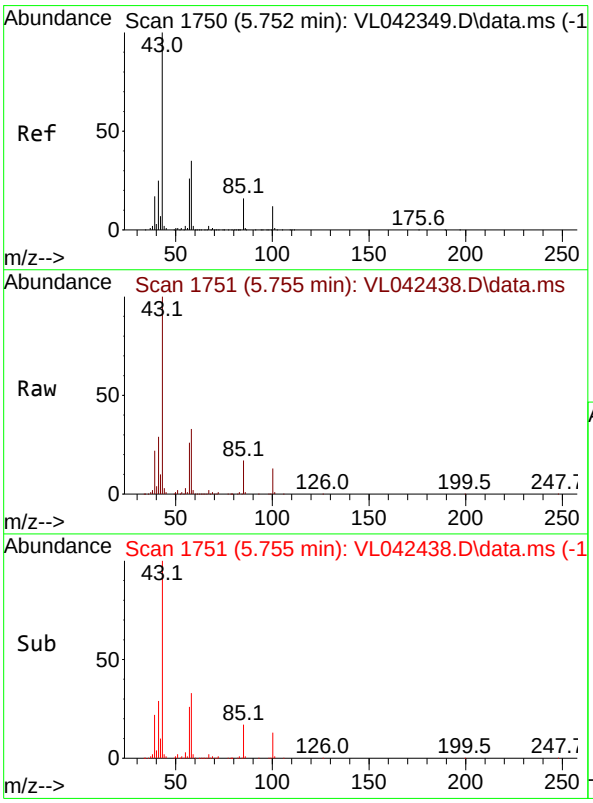

#49
Bromoform
Concen: 9.431 ppbv
RT: 9.487 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

Tgt Ion:173 Resp: 189484

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.2 | 38.2 | 57.2 |
| 171 | 51.4 | 40.9 | 61.3 |

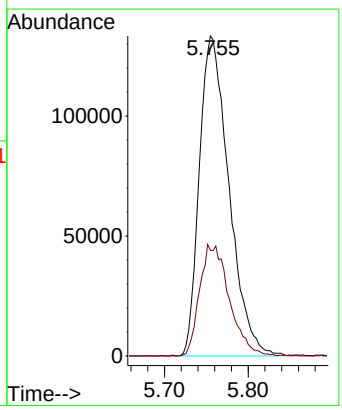


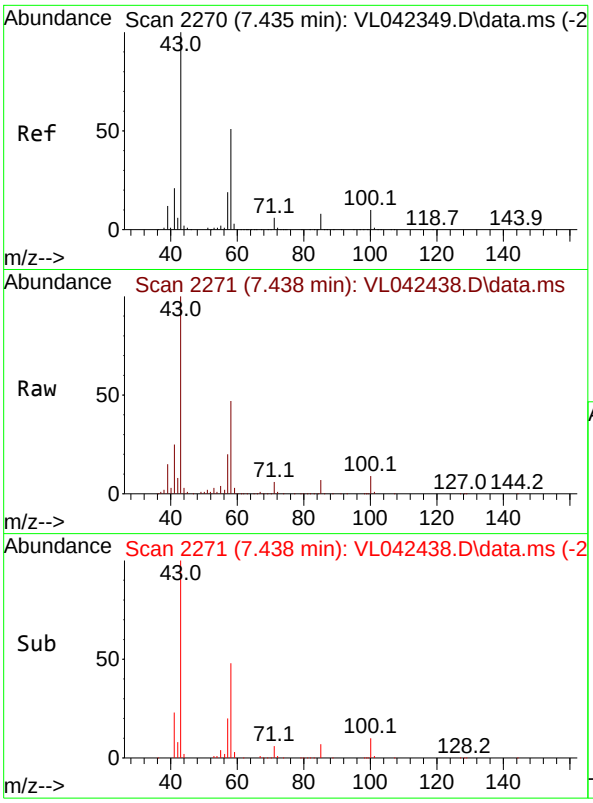




#50
4-Methyl-2-Pentanone
Concen: 7.846 ppbv
RT: 5.755 min Scan# 1751
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 43 Resp: 327508

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 34.9 | 28.6 | 43.0 |



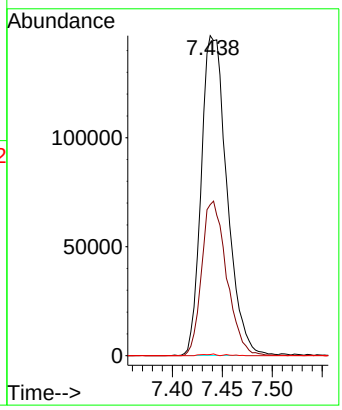


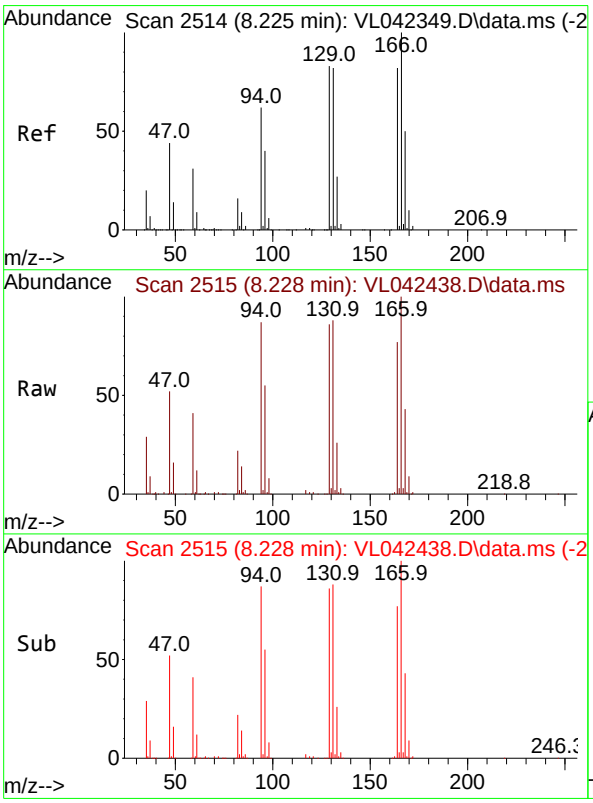

#51
2-Hexanone
Concen: 7.018 ppbv
RT: 7.438 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

Tgt Ion: 43 Resp: 262697

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 47.0 | 40.2 | 60.4 |
| 98 | 0.4 | 0.1 | 0.1# |

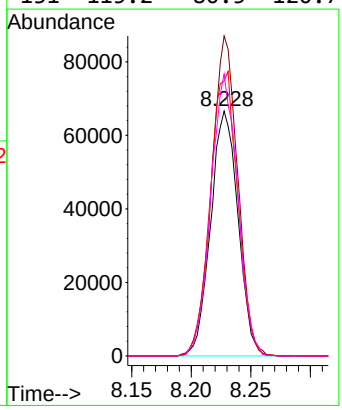


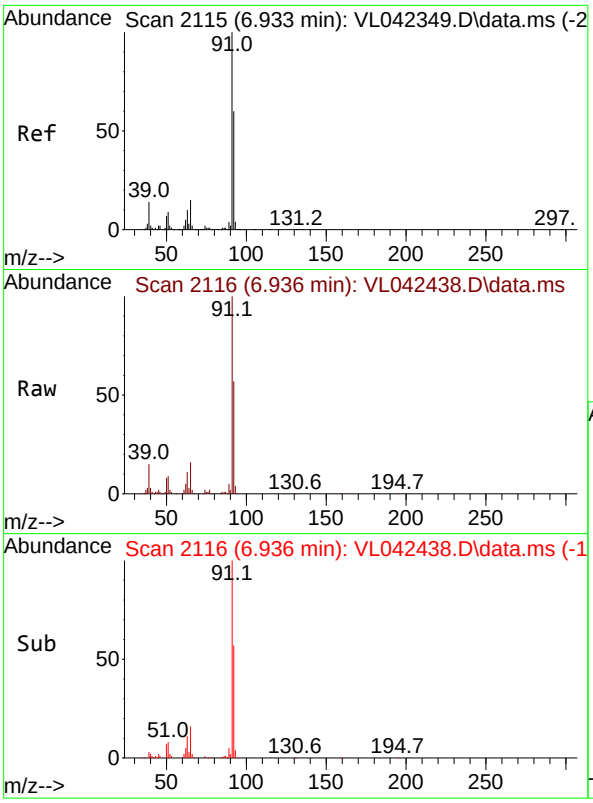




#52
Tetrachloroethene
Concen: 8.008 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion:164 Resp: 106031

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 130.7 | 98.2 | 147.2 |
| 129 | 112.3 | 81.8 | 122.8 |
| 131 | 115.2 | 80.5 | 120.7 |



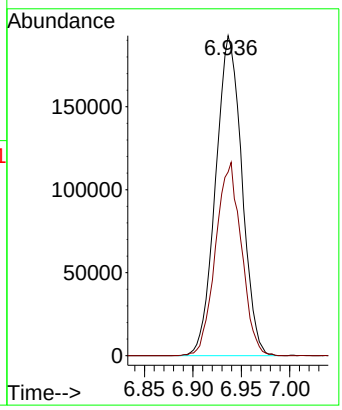


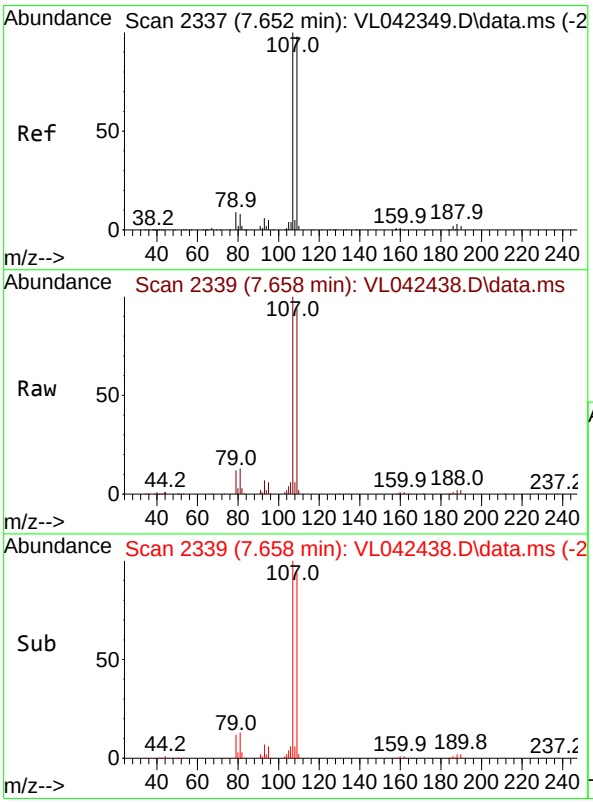

#53
Toluene
Concen: 8.848 ppbv
RT: 6.936 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

Tgt Ion: 91 Resp: 363707

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 59.6 | 48.2 | 72.4 |

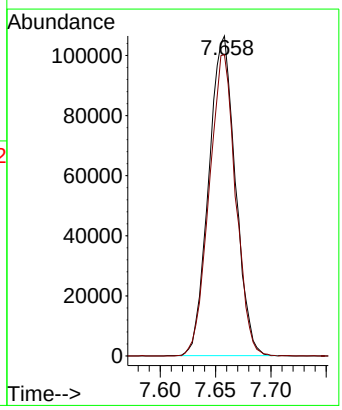


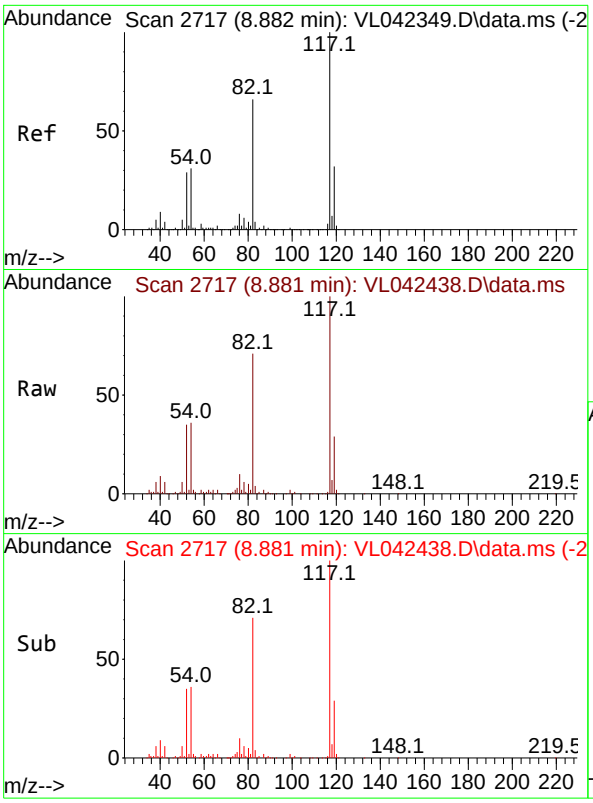




#54
1,2-Dibromoethane
Concen: 9.601 ppbv
RT: 7.658 min Scan# 2339
Delta R.T. 0.006 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion:107 Resp: 178709

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.3 | 78.2 | 117.4 |



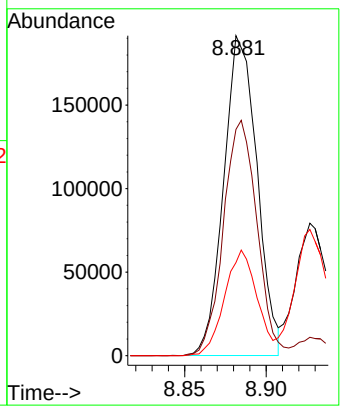


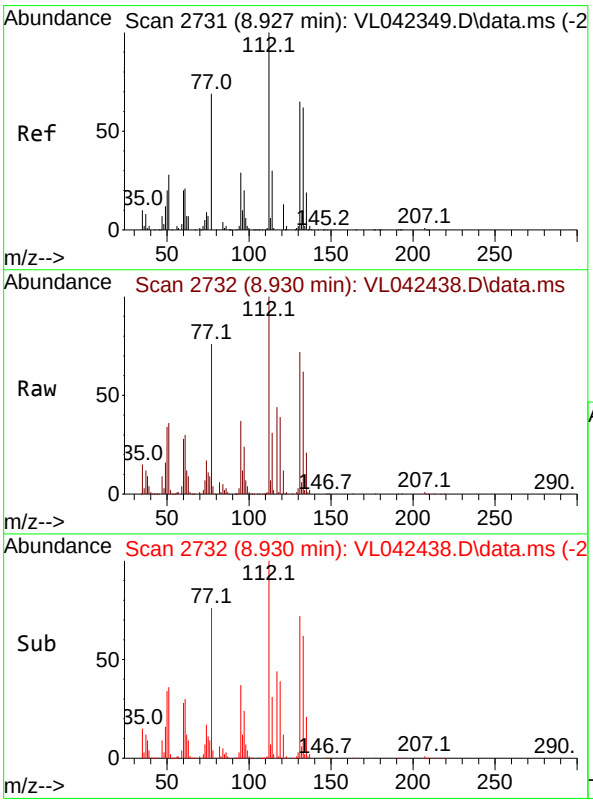

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 2
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

Tgt Ion:117 Resp: 272312

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 79.2 | 57.8 | 86.6 |
| 119 | 32.0 | 25.2 | 37.8 |

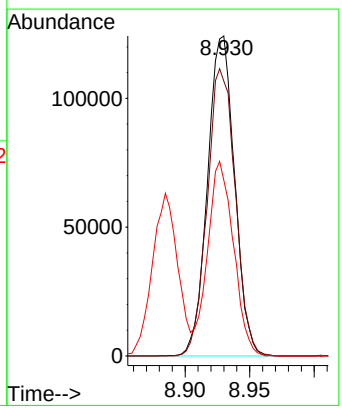


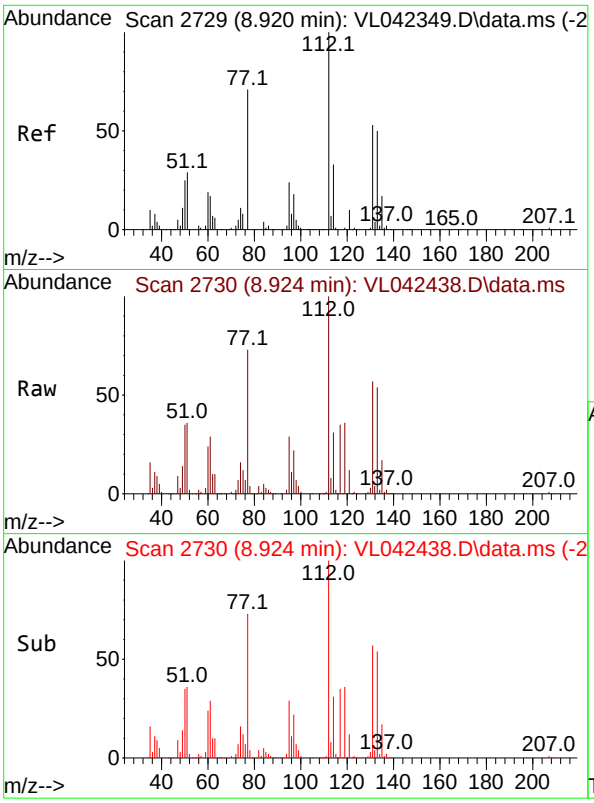




#56
1,1,1,2-Tetrachloroethane
Concen: 10.981 ppbv
RT: 8.930 min Scan# 2732
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion:131 Resp: 180979

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 93.2 | 78.3 | 117.5 |
| 119 | 58.6 | 48.7 | 73.1 |



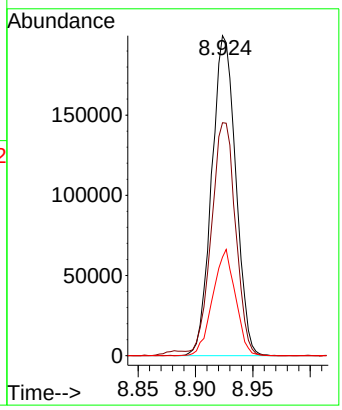


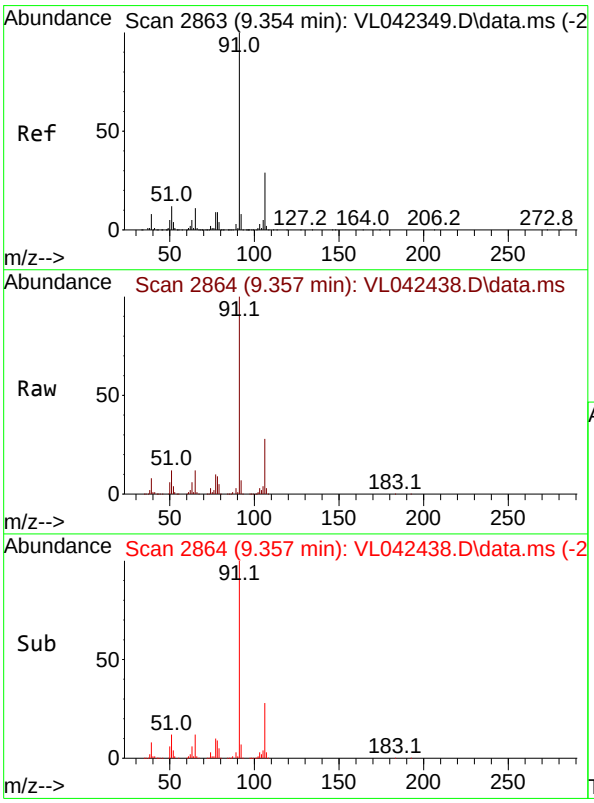

#57
Chlorobenzene
Concen: 10.270 ppbv
RT: 8.924 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

Tgt Ion:112 Resp: 290861

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 72.8 | 57.8 | 86.6 |
| 114 | 30.8 | 29.3 | 35.9 |

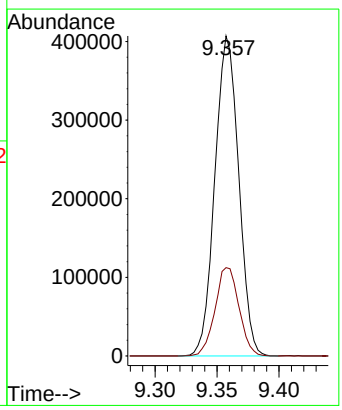


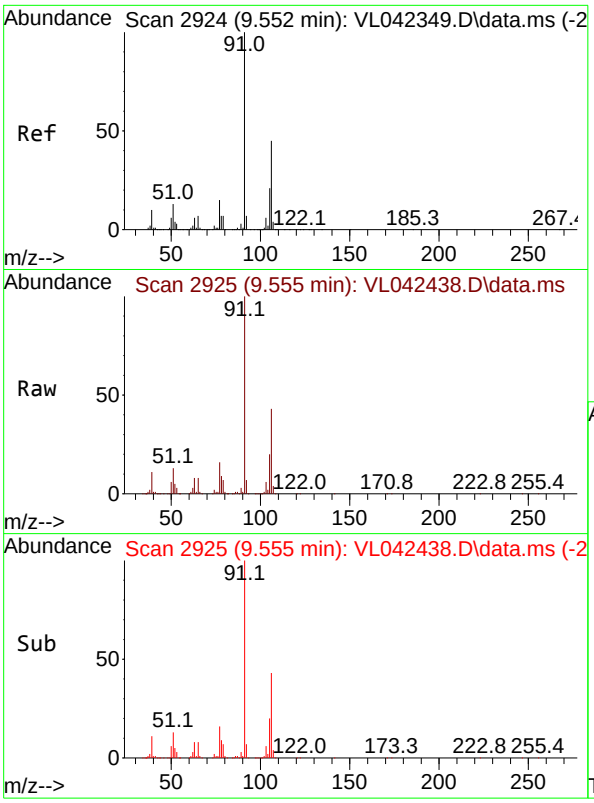




#58
Ethyl Benzene
Concen: 10.111 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 91 Resp: 545497

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 27.6 | 23.0 | 34.4 |



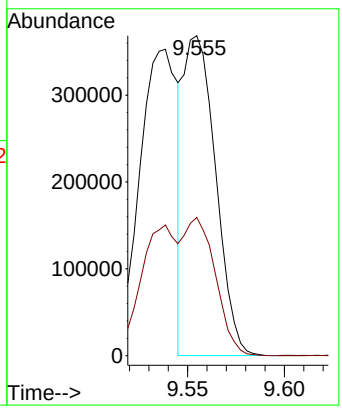


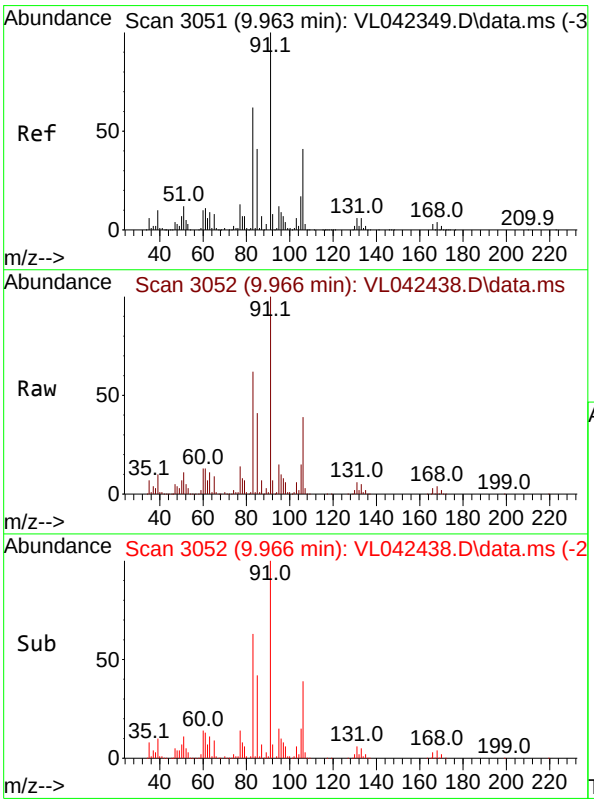

#59
m/p-Xylene
Concen: 9.768 ppbv
RT: 9.555 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

Tgt Ion: 91 Resp: 424567

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 89.3 | 35.4 | 53.2# |

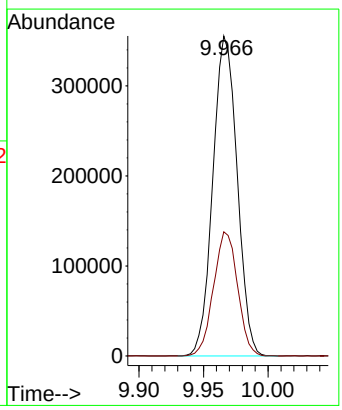


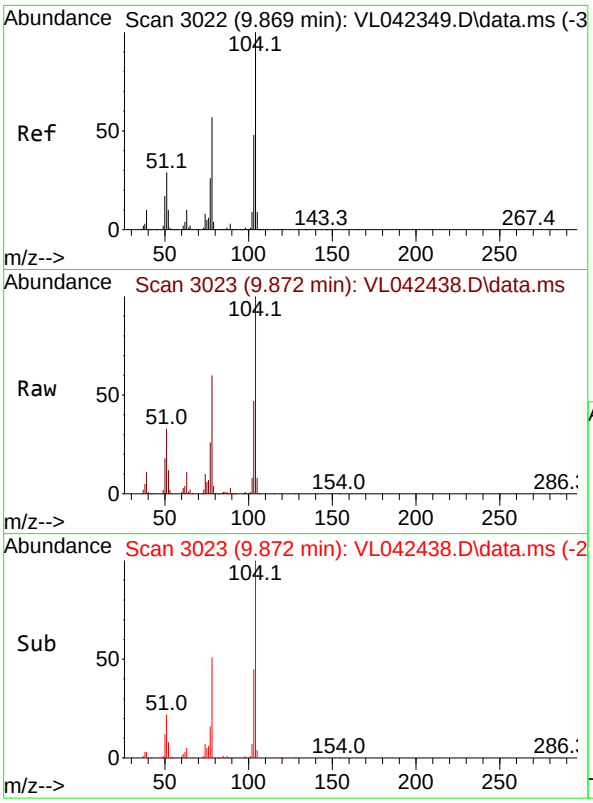




#60
o-Xylene
Concen: 10.639 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 91 Resp: 465645

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 38.4 | 21.1 | 63.4 |



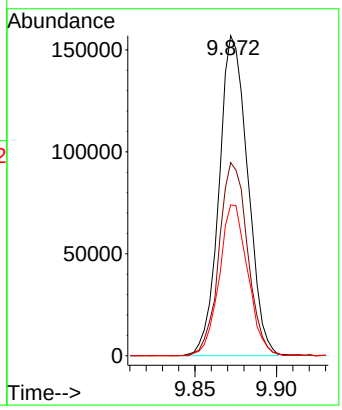


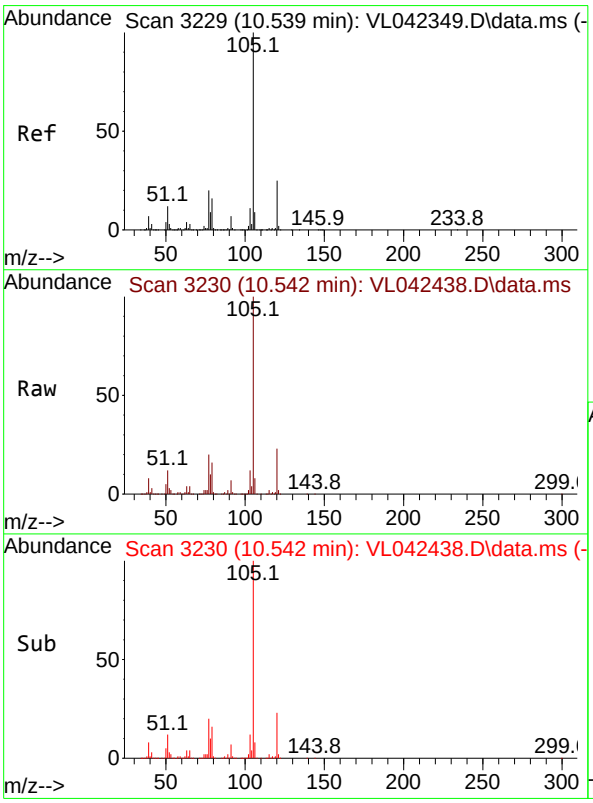

#61
Styrene
Concen: 9.178 ppbv
RT: 9.872 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

Tgt Ion:104 Resp: 191741

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 60.1 | 44.6 | 66.8 |
| 103 | 47.0 | 37.4 | 56.0 |

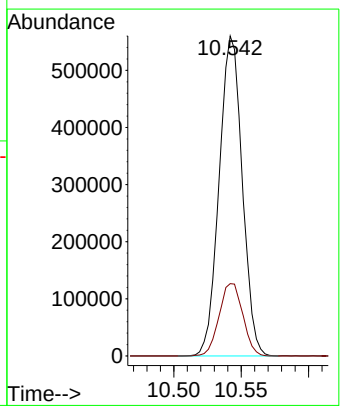


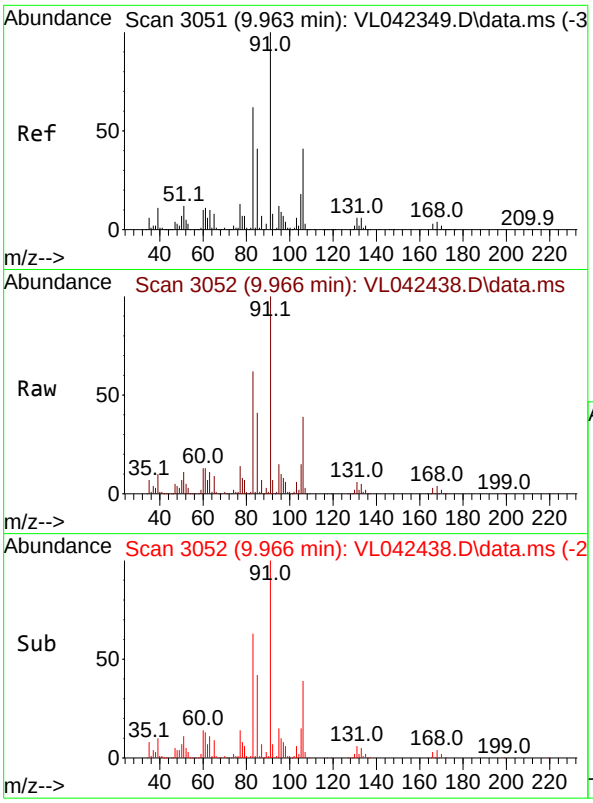




#62
Isopropylbenzene
Concen: 10.393 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion:105 Resp: 667839

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 23.2 | 19.8 | 29.8 |



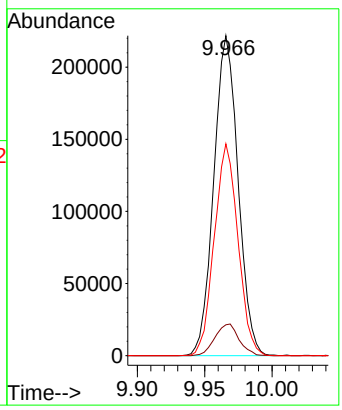


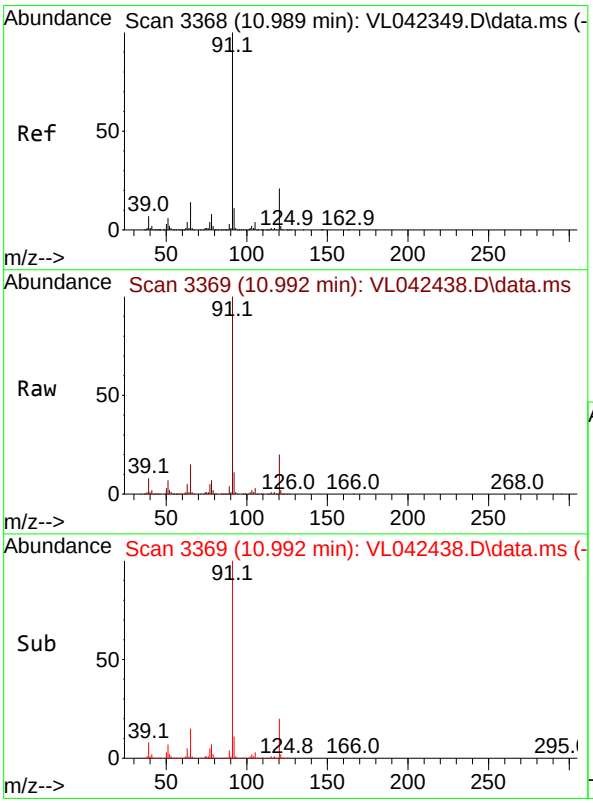

#63
1,1,2,2-Tetrachloroethane
Concen: 9.819 ppbv
RT: 9.966 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

Tgt Ion: 83 Resp: 278491

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.8 | 4.5 | 13.7 |
| 85 | 64.4 | 32.4 | 97.0 |

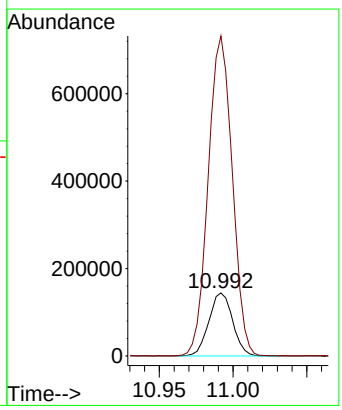


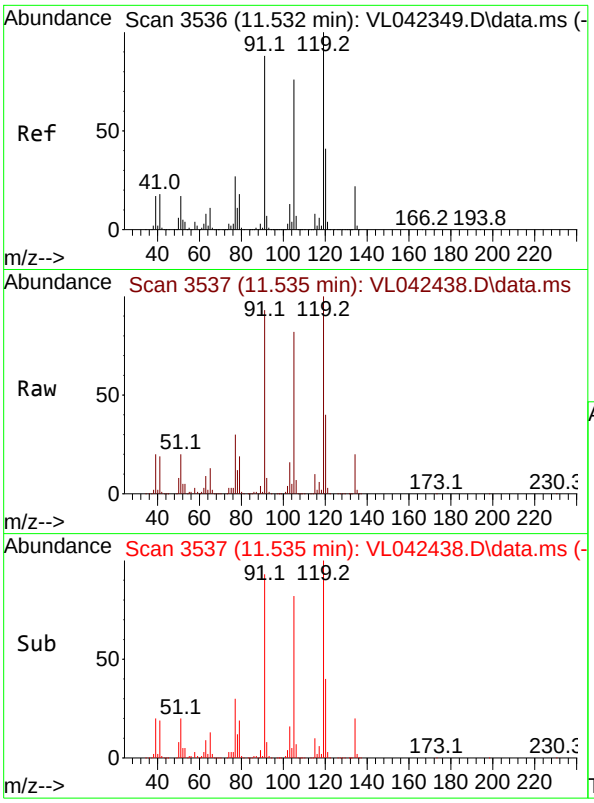




#64
n-propylbenzene
Concen: 9.987 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion:120 Resp: 161309

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 515.8 | 392.4 | 588.6 |



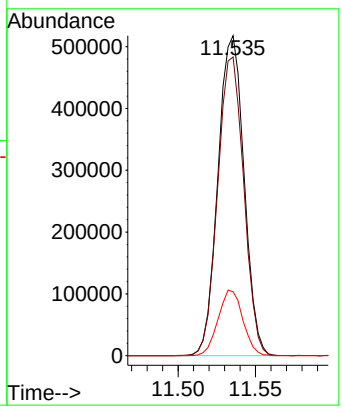


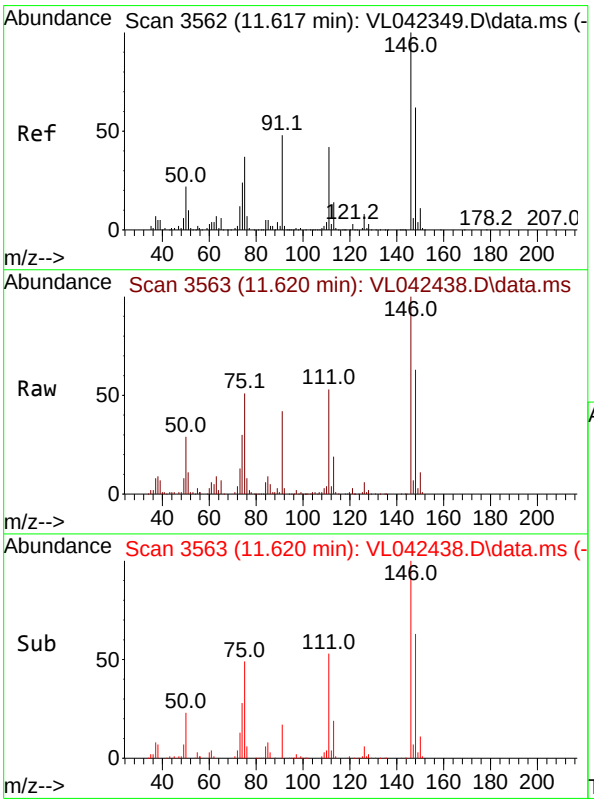

#65
tert-Butylbenzene
Concen: 10.260 ppbv
RT: 11.535 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

Tgt Ion:119 Resp: 605972

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 93.3 | 74.6 | 111.8 |
| 134 | 19.5 | 18.8 | 28.2 |

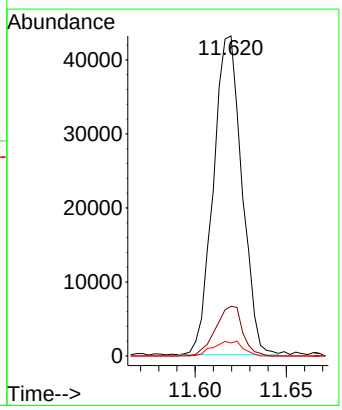


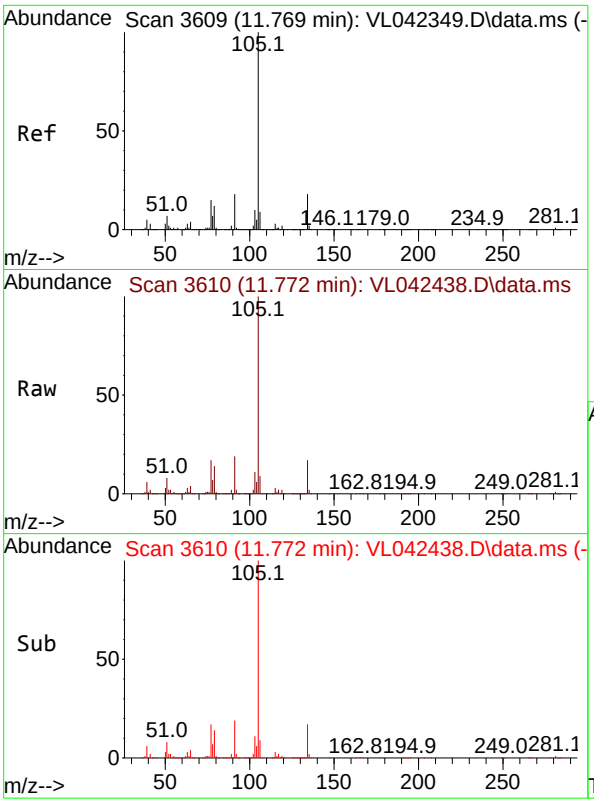




#66
Benzyl Chloride
Concen: 7.229 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 91 Resp: 46913

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 14.8 | 11.8 | 17.6 |
| 128 | 4.8 | 4.5 | 6.7 |



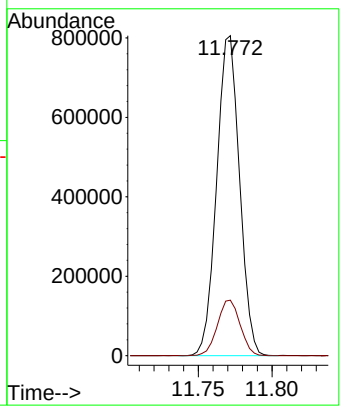


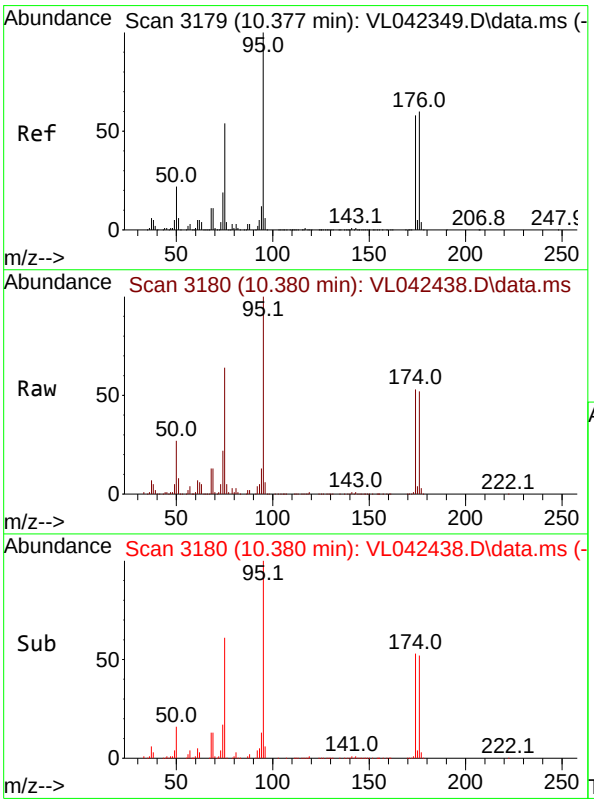

#67
sec-Butylbenzene
Concen: 10.569 ppbv
RT: 11.772 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

Tgt Ion:105 Resp: 868275

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 17.3 | 14.6 | 21.8 |

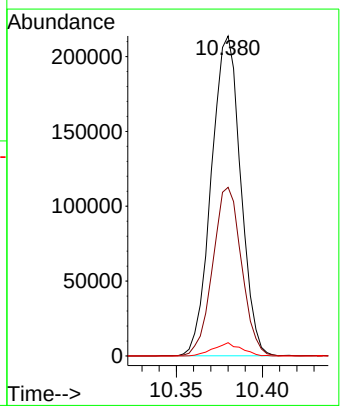


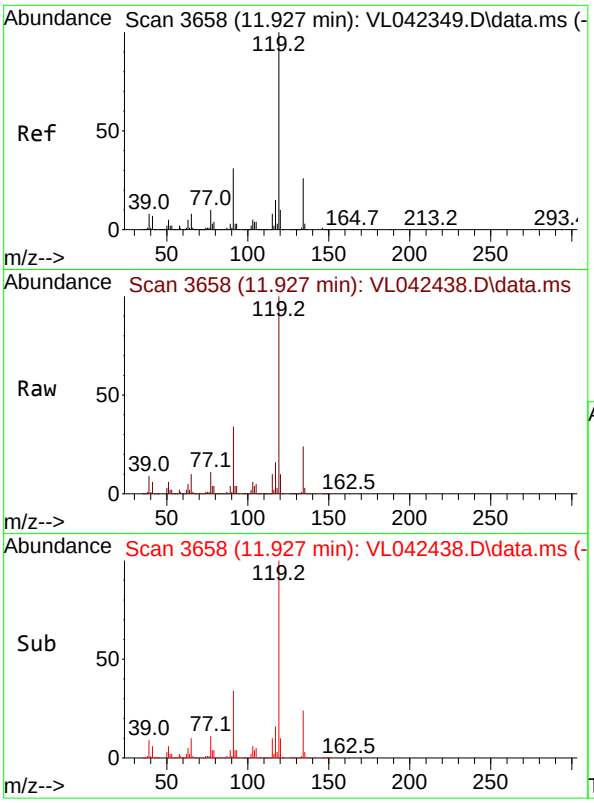




#68
1-Bromo-4-Fluorobenzene
Concen: 11.307 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 95 Resp: 253021

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 52.0 | 48.5 | 72.7 |
| 175 | 3.9 | 3.7 | 5.5 |



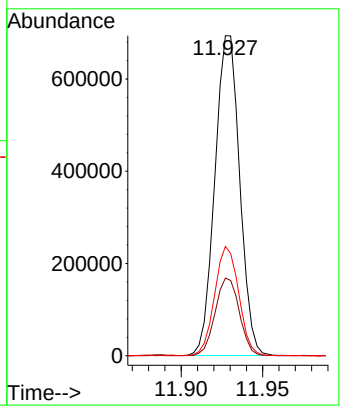


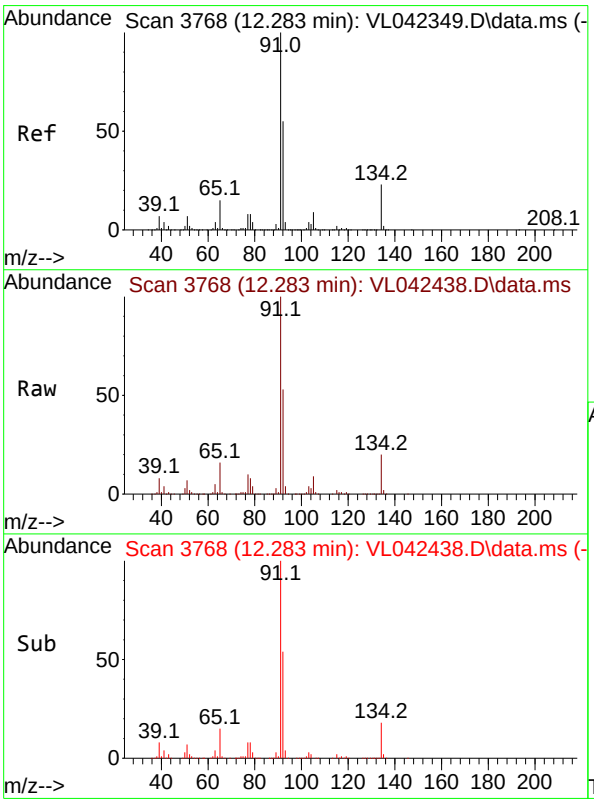

#69
p-Isopropyltoluene
Concen: 10.282 ppbv
RT: 11.927 min Scan# 3
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

Tgt Ion:119 Resp: 733796

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 23.7 | 20.0 | 30.0 |
| 91 | 33.4 | 24.4 | 36.6 |

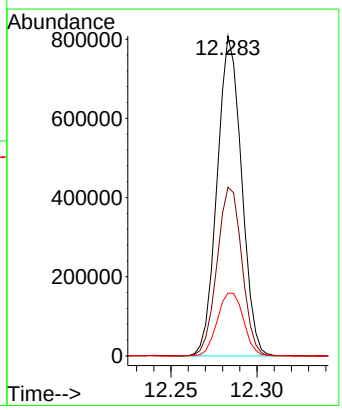


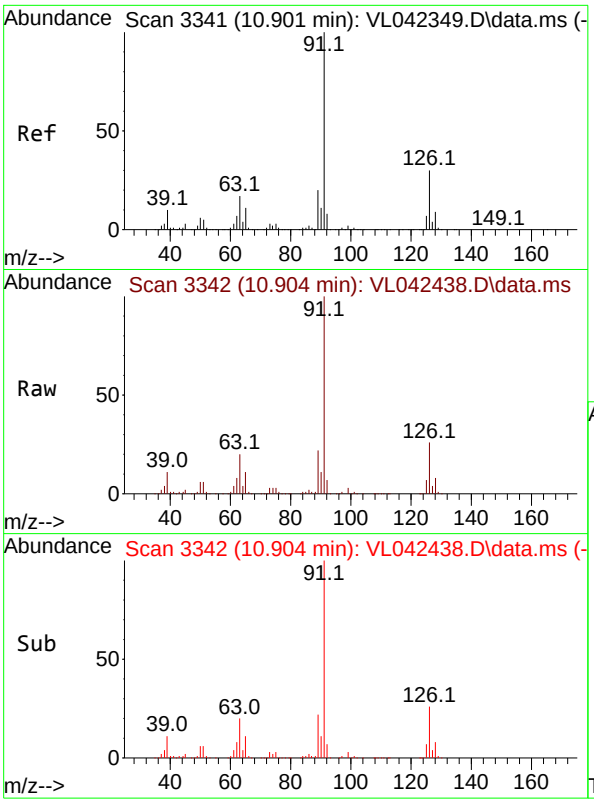




#70
n-Butylbenzene
Concen: 10.717 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion: 91 Resp: 796622

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 54.1 | 44.2 | 66.4 |
| 134 | 21.1 | 18.2 | 27.4 |



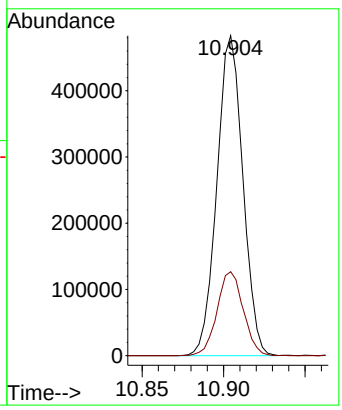


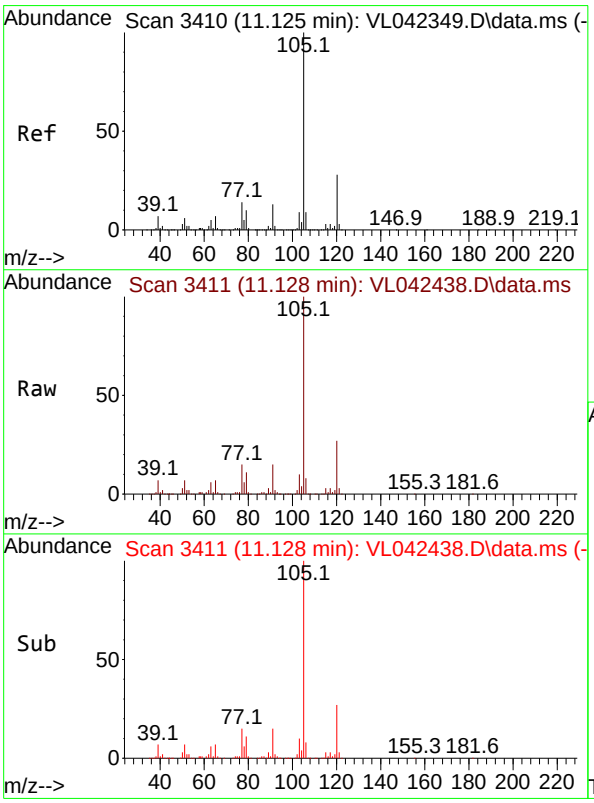

#71
2-Chlorotoluene
Concen: 10.614 ppbv
RT: 10.904 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

Tgt Ion: 91 Resp: 534951

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 26.4 | 11.4 | 45.4 |

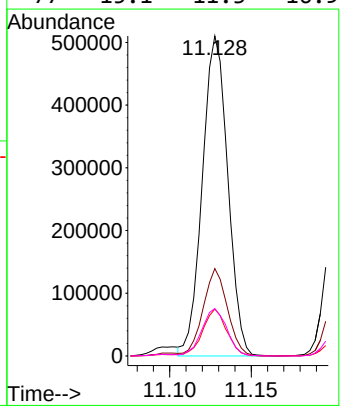


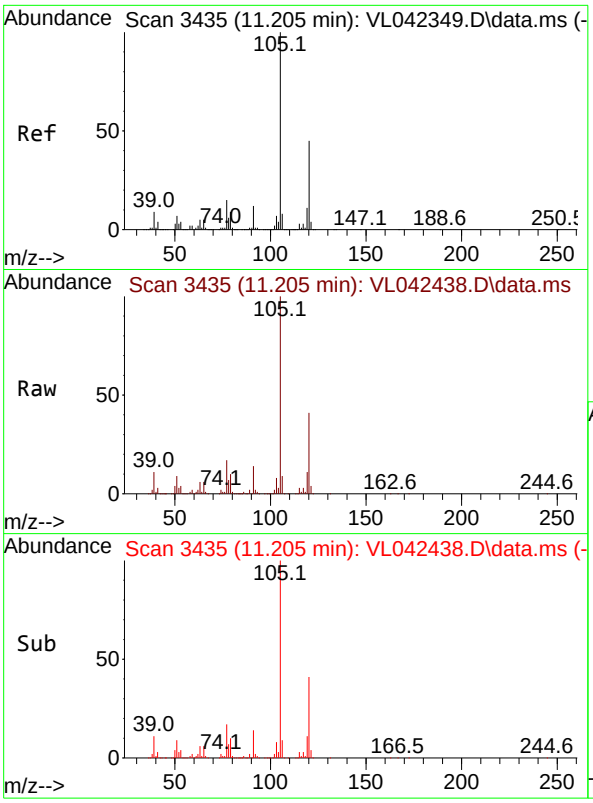




#72
4-Ethyltoluene
Concen: 10.351 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion:105 Resp: 553879

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.9 | 23.2 | 34.8 |
| 91 | 14.3 | 10.4 | 15.6 |
| 77 | 15.1 | 11.3 | 16.9 |



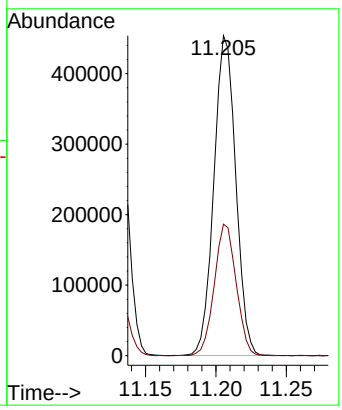


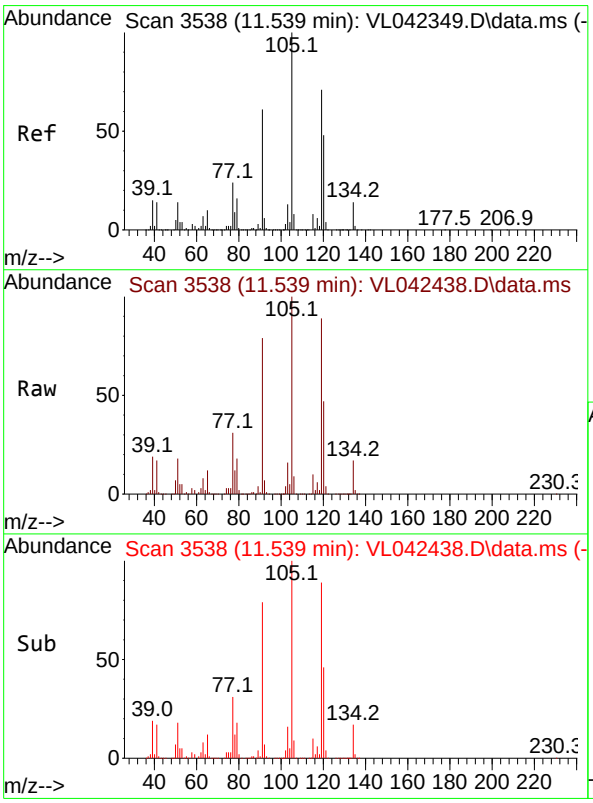

#73
1,3,5-Trimethylbenzene
Concen: 10.403 ppbv
RT: 11.205 min Scan# 34
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

Tgt Ion:105 Resp: 491459

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 41.1 | 35.6 | 53.4 |

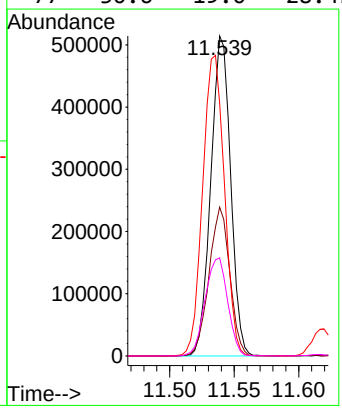


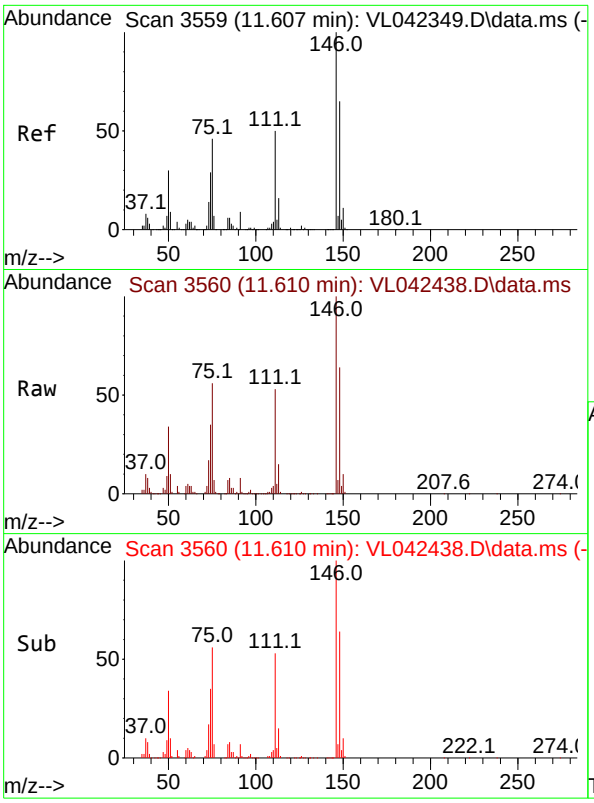




#74
1,2,4-Trimethylbenzene
Concen: 9.939 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion:105 Resp: 548408

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.5 | 38.1 | 57.1 |
| 91 | 79.0 | 48.8 | 73.2# |
| 77 | 30.6 | 19.0 | 28.4# |



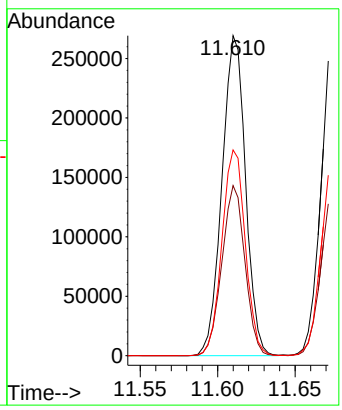


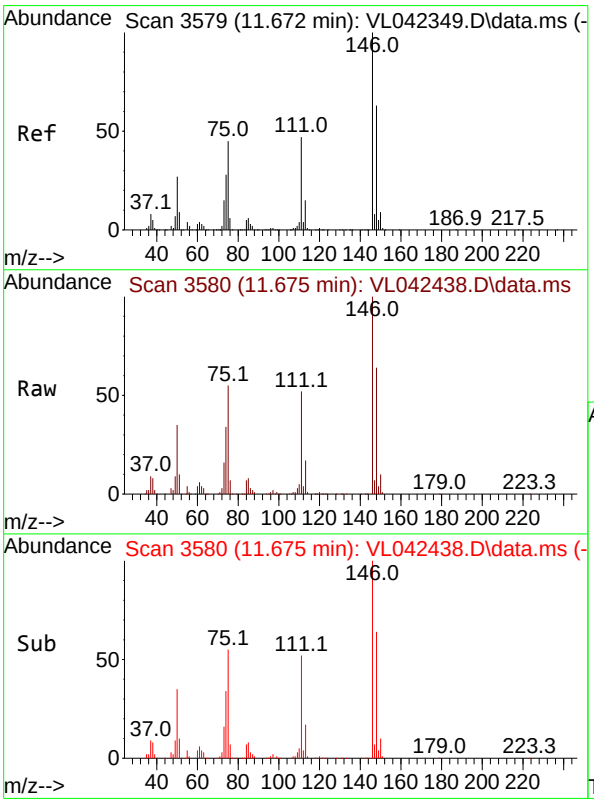

#75
1,3-Dichlorobenzene
Concen: 9.931 ppbv
RT: 11.610 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

Tgt Ion:146 Resp: 284809

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 52.1 | 24.3 | 72.8 |
| 148 | 63.8 | 31.6 | 94.8 |

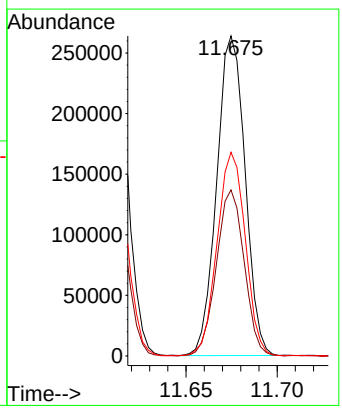


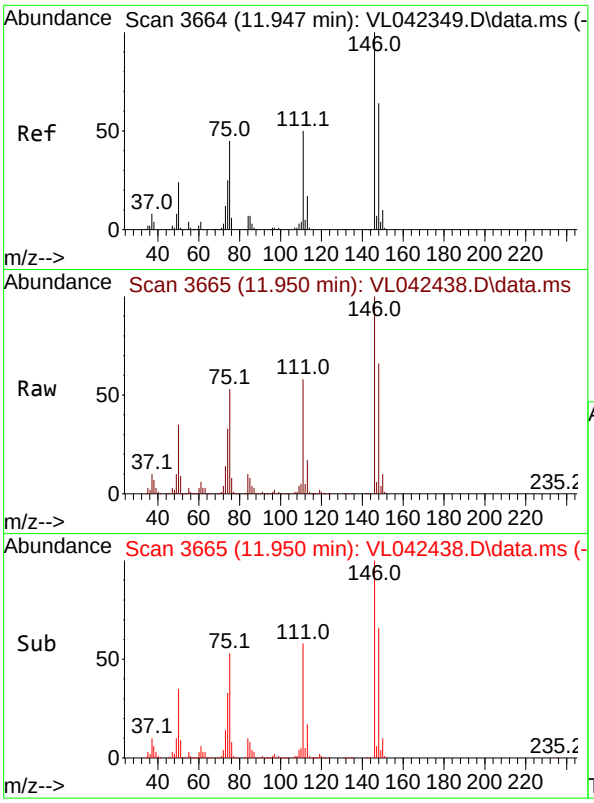




#76
1,4-Dichlorobenzene
Concen: 9.907 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion:146 Resp: 285571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 51.1 | 24.2 | 72.6 |
| 148 | 63.6 | 32.1 | 96.5 |



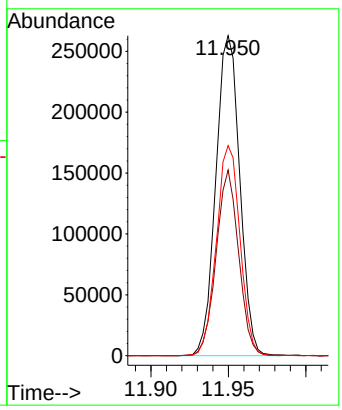


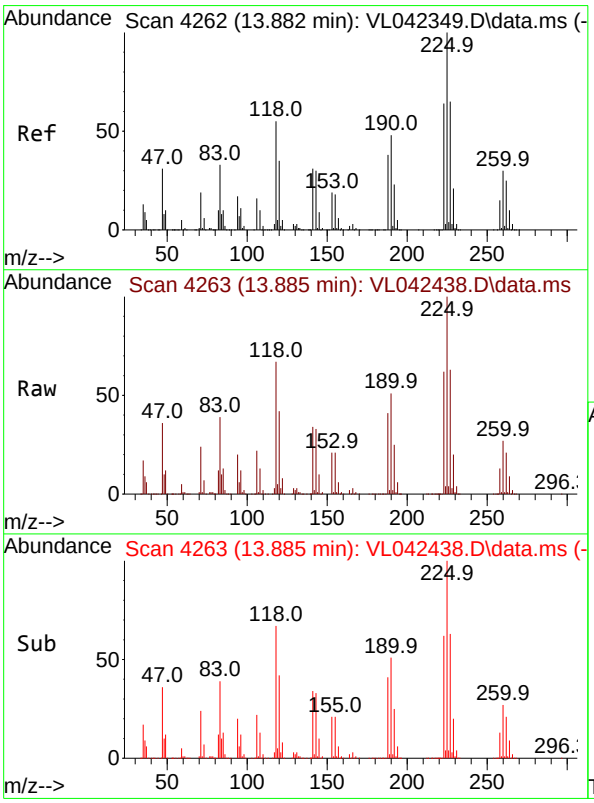

#77
1,2-Dichlorobenzene
Concen: 10.128 ppbv
RT: 11.950 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

Tgt Ion:146 Resp: 282424

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 54.6 | 25.3 | 75.9 |
| 148 | 64.8 | 31.5 | 94.5 |

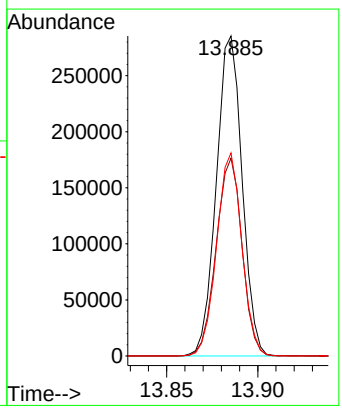


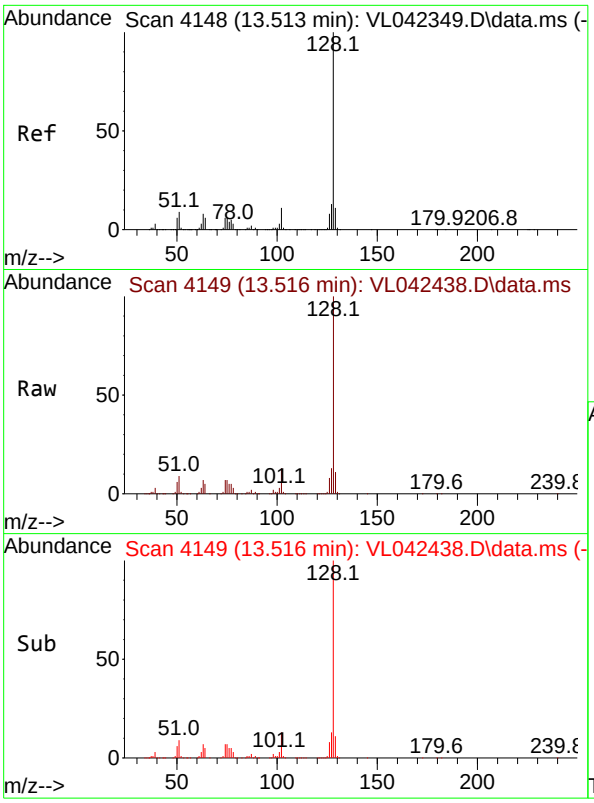




#78
Hexachloro-1,3-Butadiene
Concen: 9.977 ppbv
RT: 13.885 min Scan# 4263
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion:225 Resp: 280954

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 61.8 | 50.3 | 75.5 |
| 227 | 61.9 | 51.5 | 77.3 |



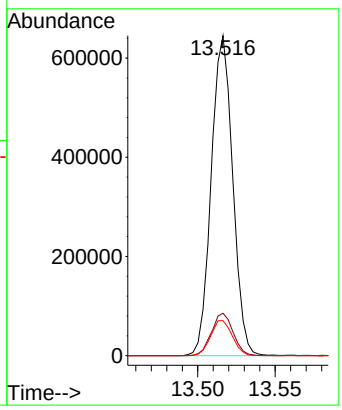


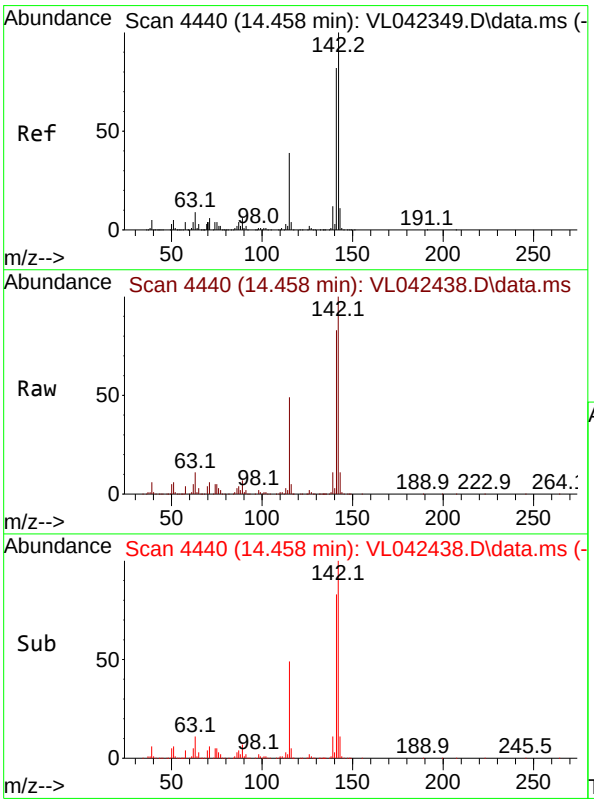

#79
Naphthalene
Concen: 9.425 ppbv
RT: 13.516 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

Tgt Ion:128 Resp: 621879

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.2 | 10.6 | 15.8 |
| 129 | 11.0 | 8.6 | 12.8 |

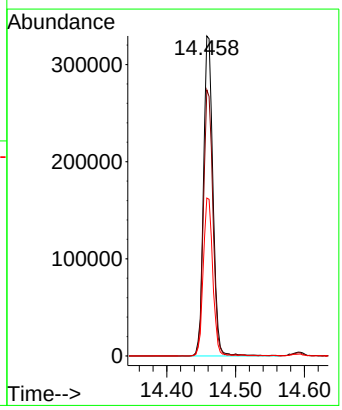


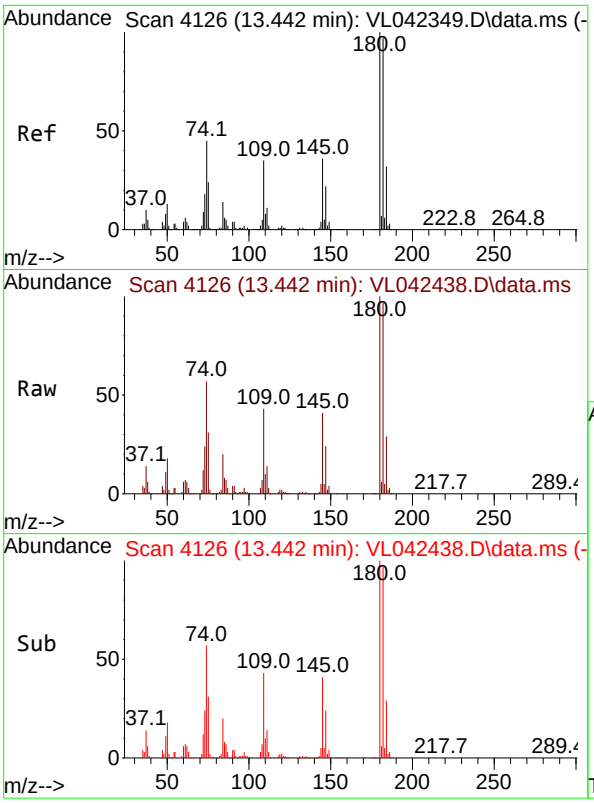




#80
Naphthalene,2-methyl-
Concen: 8.317 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

Tgt Ion:142 Resp: 312733

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 84.1 | 66.8 | 100.2 |
| 115 | 49.9 | 33.4 | 50.2 |



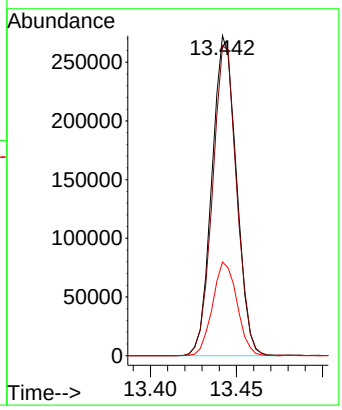



#81
1,2,4-Trichlorobenzene
Concen: 9.498 ppbv
RT: 13.442 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL042438.D
Acq: 29 Apr 2025 10:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0429ABS01

Tgt Ion:180 Resp: 269082

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.8 | 76.8 | 115.2 |
| 184 | 29.3 | 24.6 | 36.8 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
Data File : VL042451.D
Acq On : 29 Apr 2025 17:37
Operator : SY/MD
Sample : Q1665-07DL 4X
Misc : 400mL/MSVOA_L
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025DL

Quant Time: Apr 30 01:23:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 2.797 | 49 | 116268 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 3.972 | 114 | 307149 | 10.000 | ppbv | | 0.01 |
| 55) Chlorobenzene-d5 | 8.895 | 117 | 260772 | 10.000 | ppbv | | 0.01 |
| System Monitoring Compounds | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.390 | 95 | 230005 | 10.733 | ppbv | | 0.01 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 107.300% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.502 | 85 | 2557 | 0.124 | ppbv | | 93 |
| 3) Chlorodifluoromethane | 1.470 | 51 | 16756 | 0.857 | ppbv | # | 61 |
| 4) Chloromethane | 1.535 | 50 | 1596 | 0.196 | ppbv | # | 69 |
| 6) Bromomethane | 1.680 | 94 | 149 | 0.039 | ppbv | # | 8 |
| 9) Propene | 1.492 | 41 | 3728 | 0.418 | ppbv | | 89 |
| 10) Heptane | 4.994 | 43 | 838 | 0.033 | ppbv | # | 1 |
| 11) Trichlorofluoromethane | 1.887 | 101 | 1551 | 0.079 | ppbv | # | 62 |
| 13) Ethanol | 1.725 | 45 | 99875 | 70.537 | ppbv | | 75 |
| 15) Acetone | 1.842 | 43 | 107854 | 5.667 | ppbv | # | 81 |
| 16) 1,3-Butadiene | 1.606 | 39 | 1522 | 0.167 | ppbv | # | 46 |
| 17) tert-Butyl alcohol | 2.049 | 59 | 16691 | 0.708 | ppbv | # | 88 |
| 19) Isopropyl Alcohol | 1.894 | 45 | 84766 | 8.017 | ppbv | # | 36 |
| 20) Methylene Chloride | 2.069 | 84 | 3055 | 0.410 | ppbv | # | 91 |
| 21) Allyl Chloride | 2.049 | 41 | 5640 | 0.429 | ppbv | # | 78 |
| 23) Vinyl Acetate | 2.470 | 43 | 2885 | 0.374 | ppbv | # | 50 |
| 25) Ethyl Acetate | 2.849 | 43 | 2944 | 0.063 | ppbv | # | 73 |
| 26) Hexane | 2.839 | 57 | 7600 | 0.400 | ppbv | # | 41 |
| 34) 2-Butanone | 2.570 | 43 | 5426 | 0.223 | ppbv | | 96 |
| 36) Benzene | 3.671 | 78 | 3299 | 0.100 | ppbv | | 95 |
| 37) 1,2-Dichloroethane | 3.234 | 62 | 2395 | 0.120 | ppbv | # | 87 |
| 39) 1,2-Dichloropropane | 3.972 | 63 | 87837 | 7.115 | ppbv | # | 23 |
| 44) 2,2,4-Trimethylpentane | 4.658 | 57 | 4356 | 0.076 | ppbv | # | 30 |
| 53) Toluene | 6.956 | 91 | 32058 | 0.806 | ppbv | | 99 |
| 58) Ethyl Benzene | 9.374 | 91 | 1871 | 0.036 | ppbv | | 93 |
| 60) o-Xylene | 9.972 | 91 | 3798 | 0.091 | ppbv | | 98 |
| 61) Styrene | 9.882 | 104 | 1303 | 0.065 | ppbv | | 95 |
| 74) 1,2,4-Trimethylbenzene | 11.549 | 105 | 3330 | 0.063 | ppbv | # | 59 |

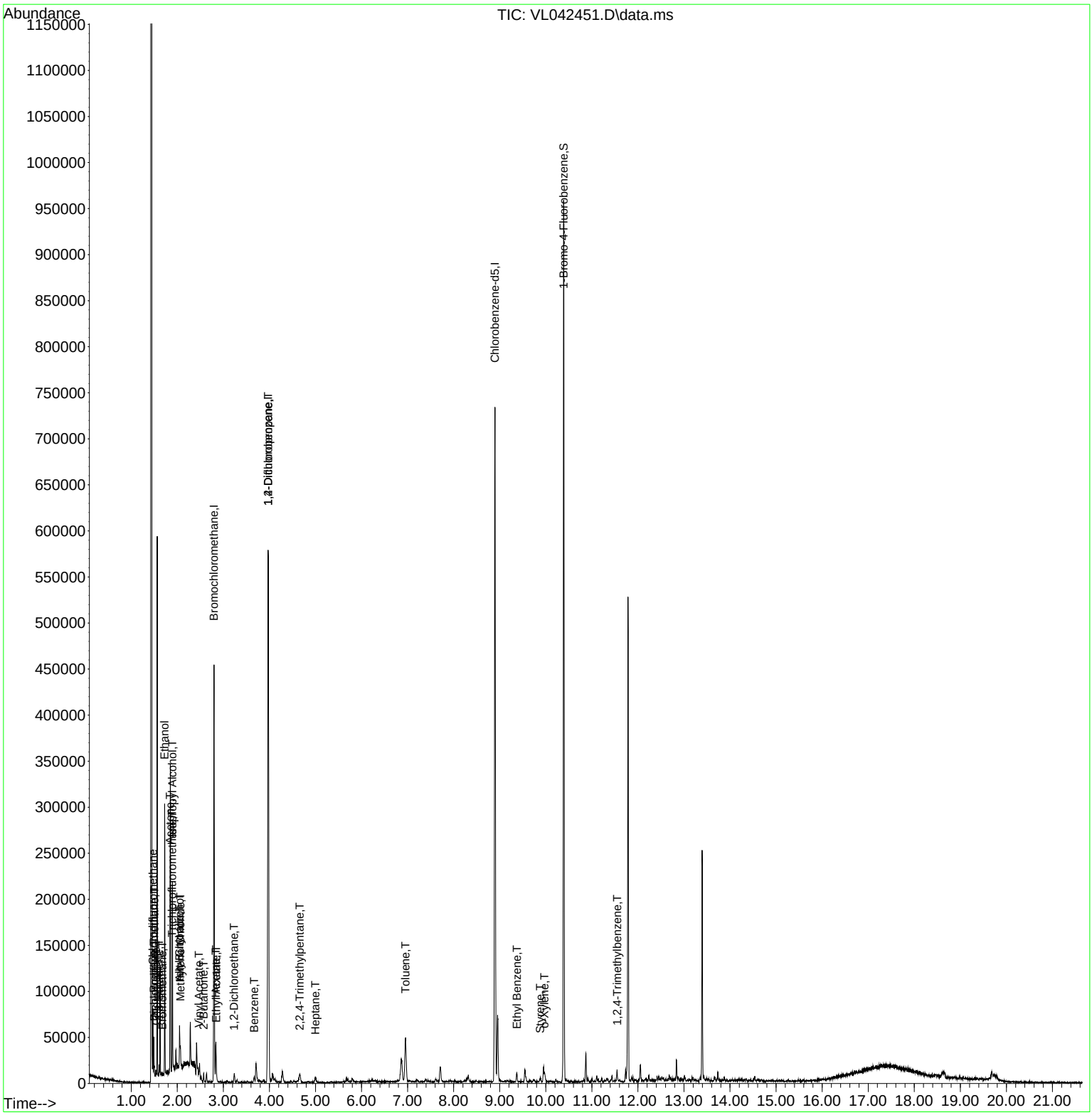
(#) = qualifier out of range (m) = manual integration (+) = signals summed

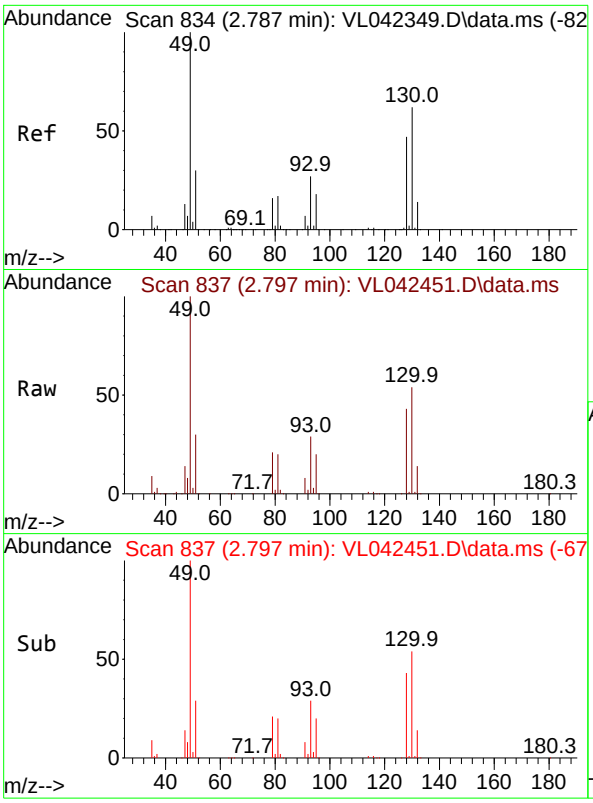
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
Data File : VL042451.D
Acq On : 29 Apr 2025 17:37
Operator : SY/MD
Sample : Q1665-07DL 4X
Misc : 400mL/MSVOA_L
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025DL

Quant Time: Apr 30 01:23:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration



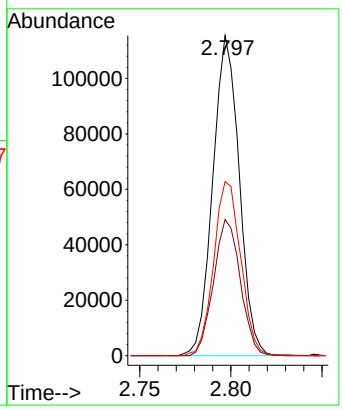


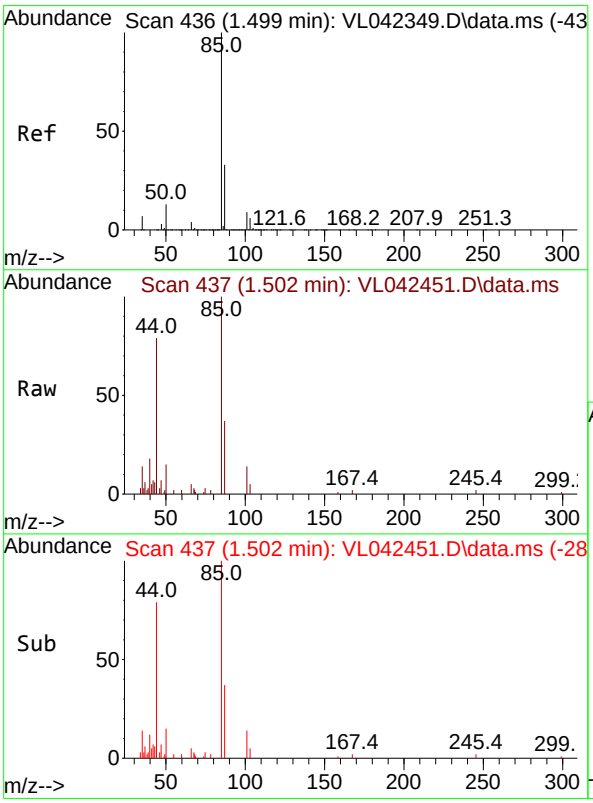

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 8
Delta R.T. 0.010 min
Lab File: VL042451.D
Acq: 29 Apr 2025 17:37

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025DL

Tgt Ion: 49 Resp: 116268

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 43.0 | 22.8 | 68.4 |
| 130 | 55.7 | 29.3 | 88.0 |

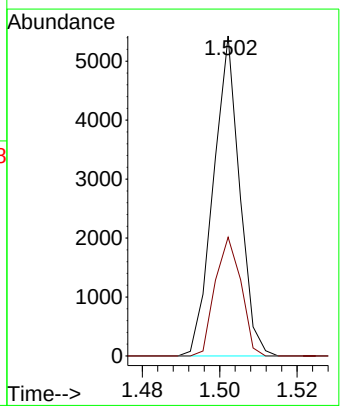


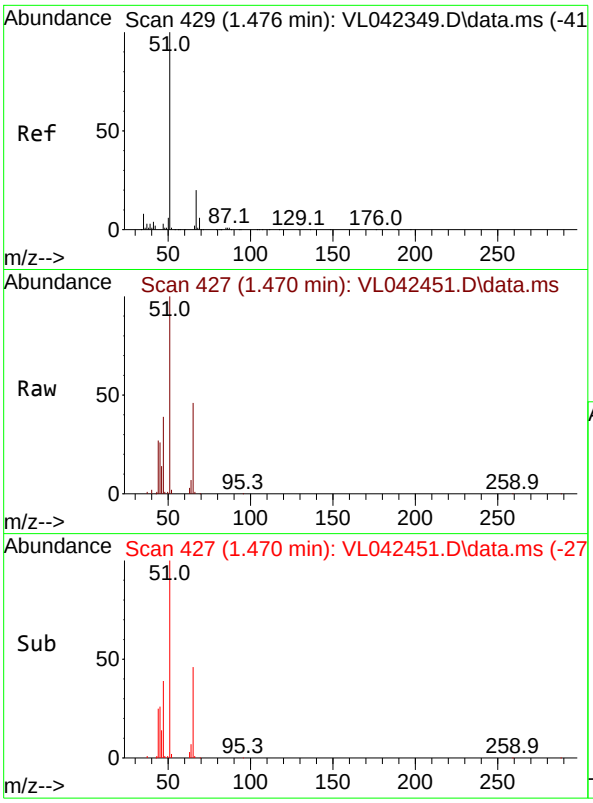




#2
Dichlorodifluoromethane
Concen: 0.124 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL042451.D
Acq: 29 Apr 2025 17:37

Tgt Ion: 85 Resp: 2557

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 37.1 | 26.6 | 39.8 |



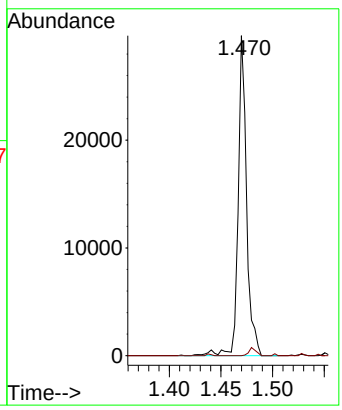


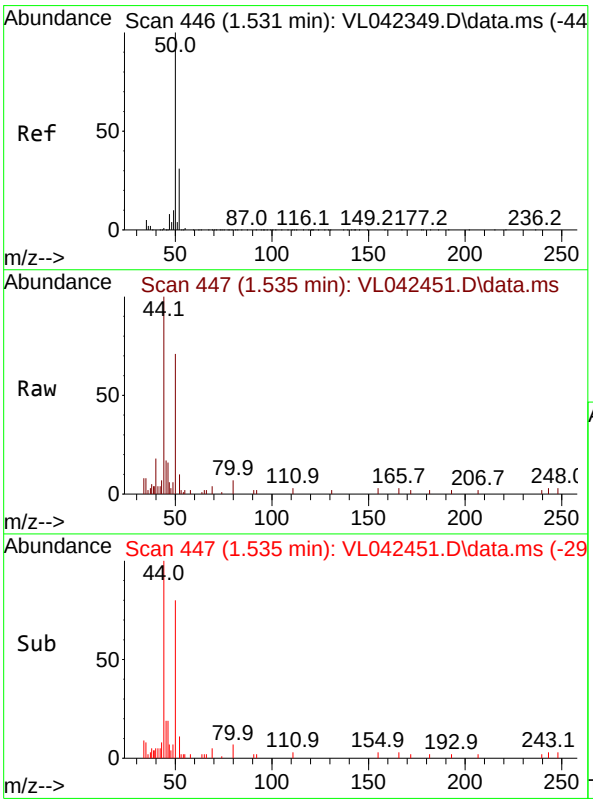

#3
Chlorodifluoromethane
Concen: 0.857 ppbv
RT: 1.470 min Scan# 4
Delta R.T. -0.006 min
Lab File: VL042451.D
Acq: 29 Apr 2025 17:37

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025DL

Tgt Ion: 51 Resp: 16756

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 2.3 | 16.2 | 24.4# |

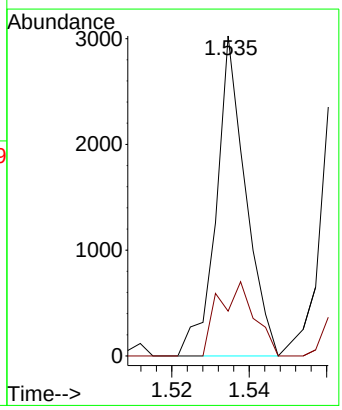


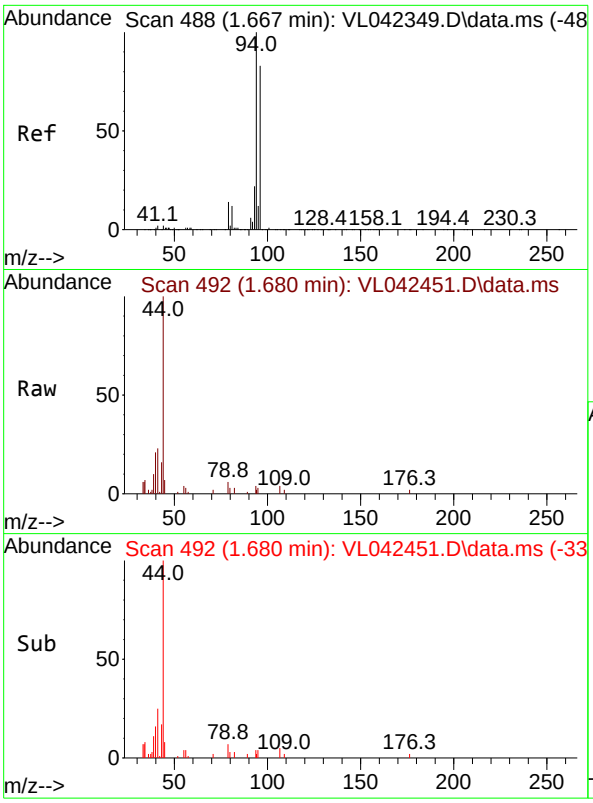




#4
Chloromethane
Concen: 0.196 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042451.D
Acq: 29 Apr 2025 17:37

Tgt Ion: 50 Resp: 1596

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 14.0 | 24.7 | 37.1# |



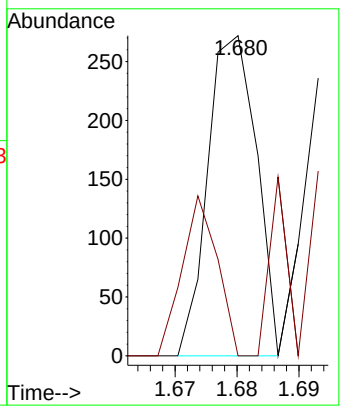


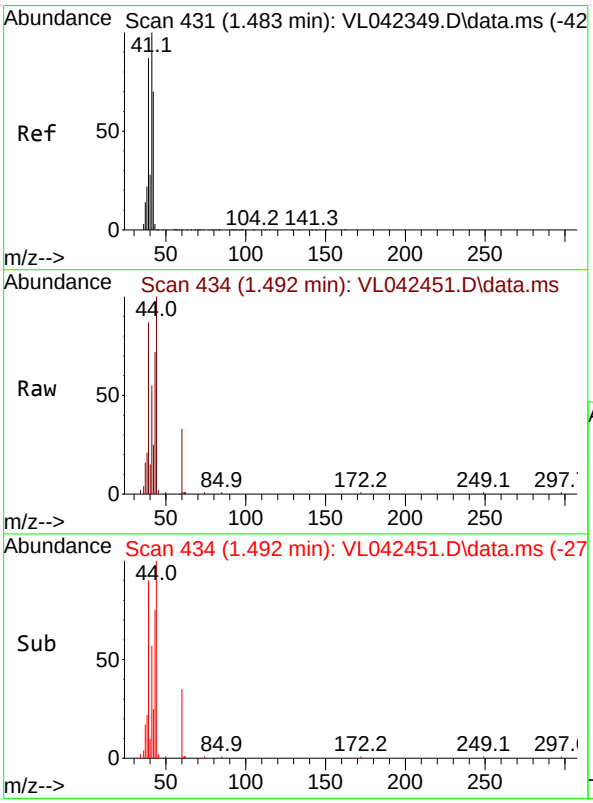

#6
Bromomethane
Concen: 0.039 ppbv
RT: 1.680 min Scan# 4
Delta R.T. 0.013 min
Lab File: VL042451.D
Acq: 29 Apr 2025 17:37

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025DL

Tgt Ion: 94 Resp: 149

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 0.0 | 66.2 | 99.2# |

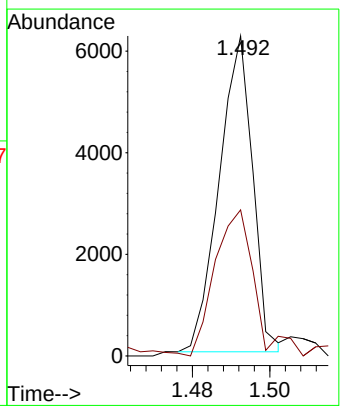


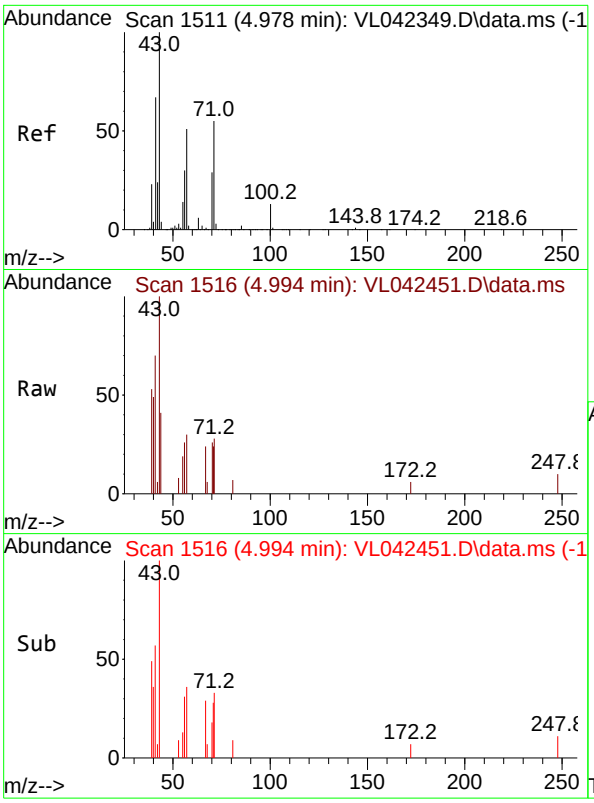




#9
Propene
Concen: 0.418 ppbv
RT: 1.492 min Scan# 434
Delta R.T. 0.010 min
Lab File: VL042451.D
Acq: 29 Apr 2025 17:37

Tgt Ion: 41 Resp: 3728

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 61.4 | 56.2 | 84.4 |



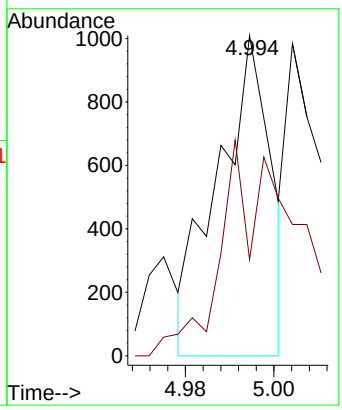


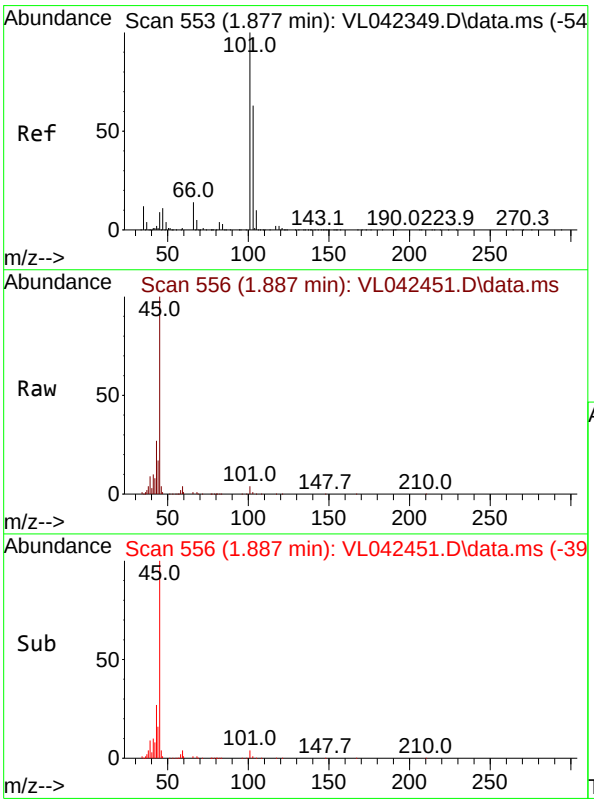

#10
Heptane
Concen: 0.033 ppbv
RT: 4.994 min Scan# 1
Delta R.T. 0.016 min
Lab File: VL042451.D
Acq: 29 Apr 2025 17:37

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025DL

Tgt Ion: 43 Resp: 838

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 118.3 | 39.9 | 59.9# |

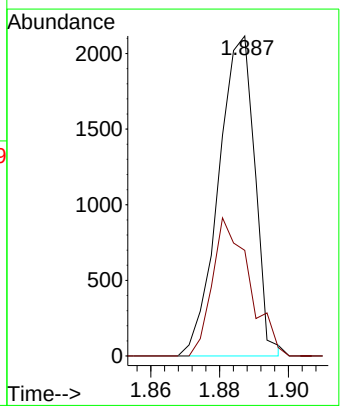


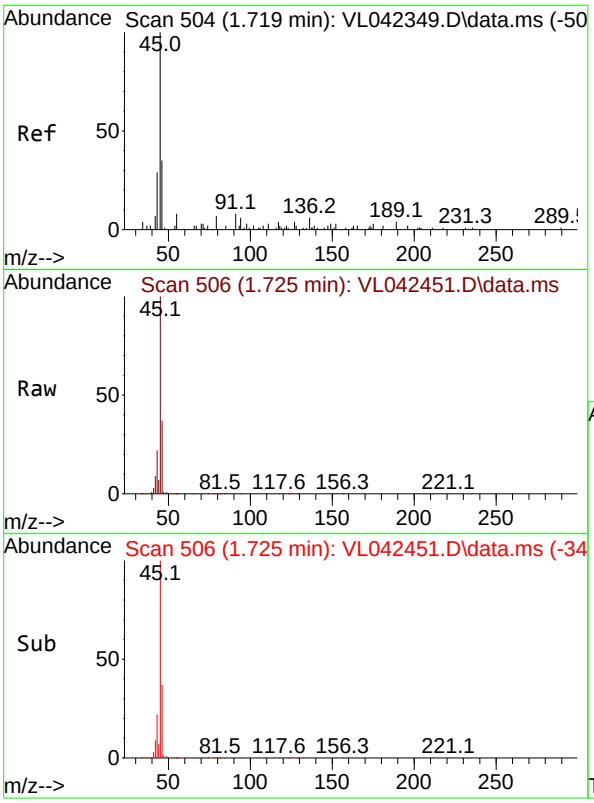




#11
Trichlorofluoromethane
Concen: 0.079 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.010 min
Lab File: VL042451.D
Acq: 29 Apr 2025 17:37

Tgt Ion:101 Resp: 1551

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 33.0 | 50.1 | 75.1# |



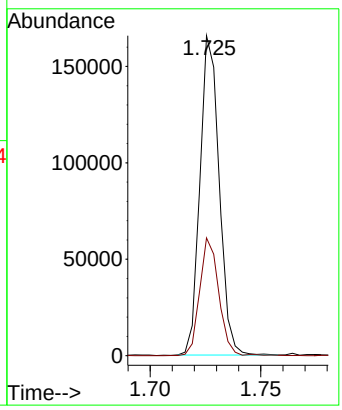


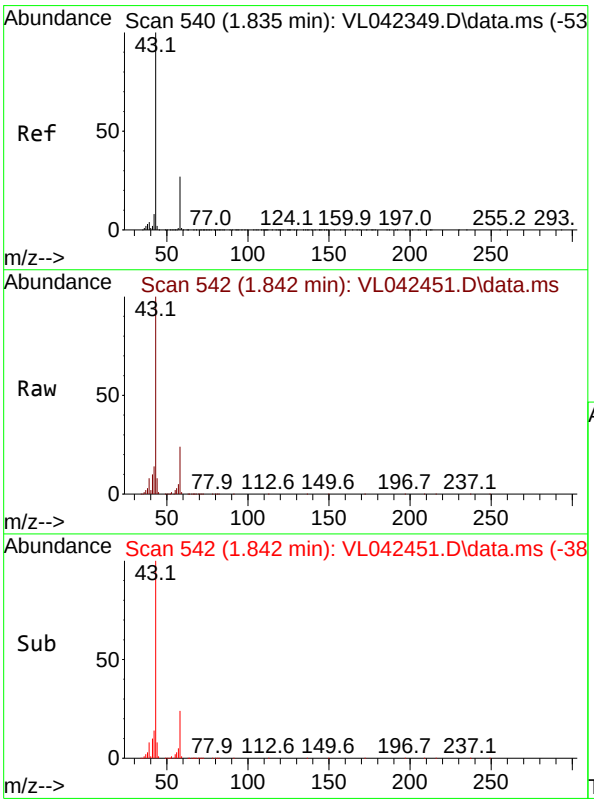

#13
Ethanol
Concen: 70.537 ppbv
RT: 1.725 min Scan# 5
Delta R.T. 0.007 min
Lab File: VL042451.D
Acq: 29 Apr 2025 17:37

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025DL

Tgt Ion: 45 Resp: 99875

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 36.8 | 21.9 | 87.7 |

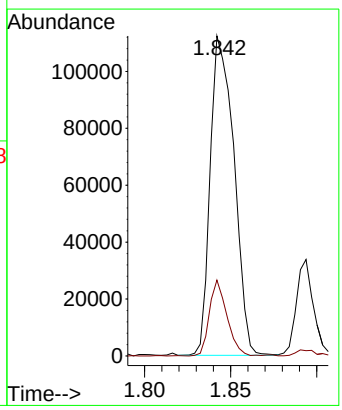


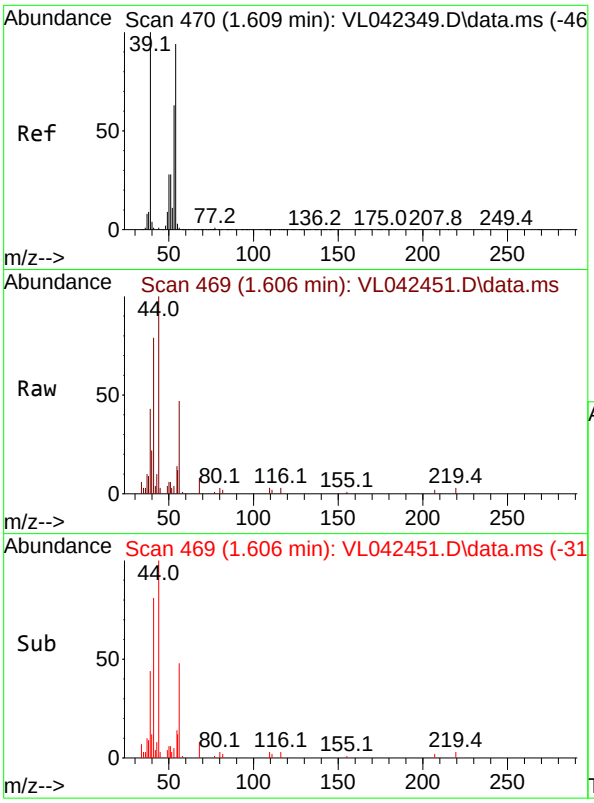




#15
Acetone
Concen: 5.667 ppbv
RT: 1.842 min Scan# 542
Delta R.T. 0.007 min
Lab File: VL042451.D
Acq: 29 Apr 2025 17:37

Tgt Ion: 43 Resp: 107854

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 17.9 | 22.4 | 33.6# |



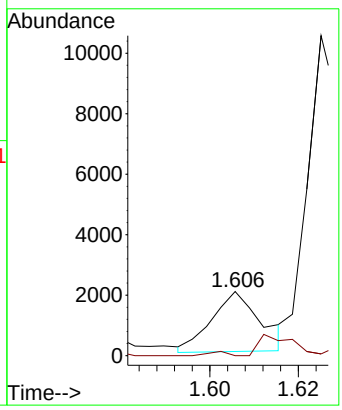


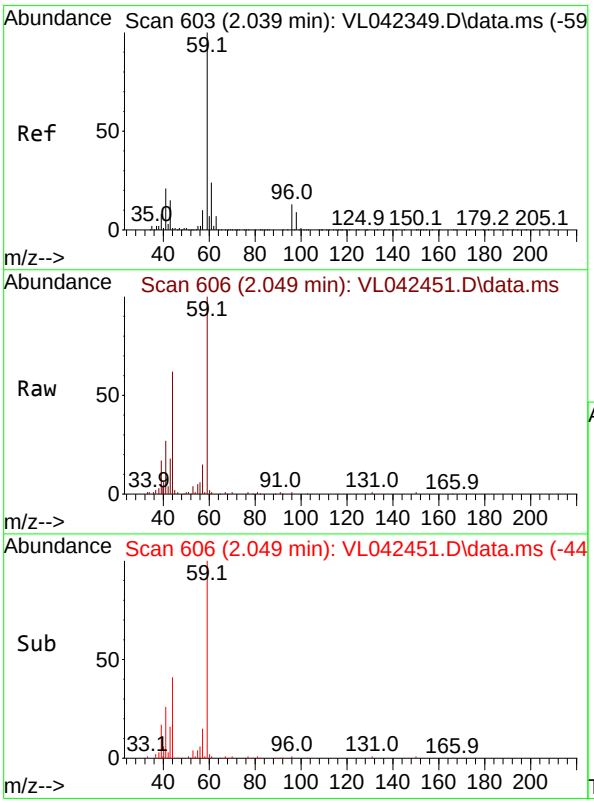

#16
1,3-Butadiene
Concen: 0.167 ppbv
RT: 1.606 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042451.D
Acq: 29 Apr 2025 17:37

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025DL

Tgt Ion: 39 Resp: 1522

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 33.4 | 64.9 | 97.3# |

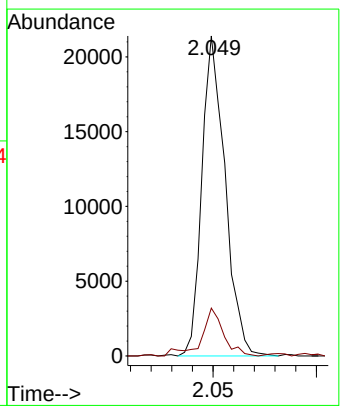


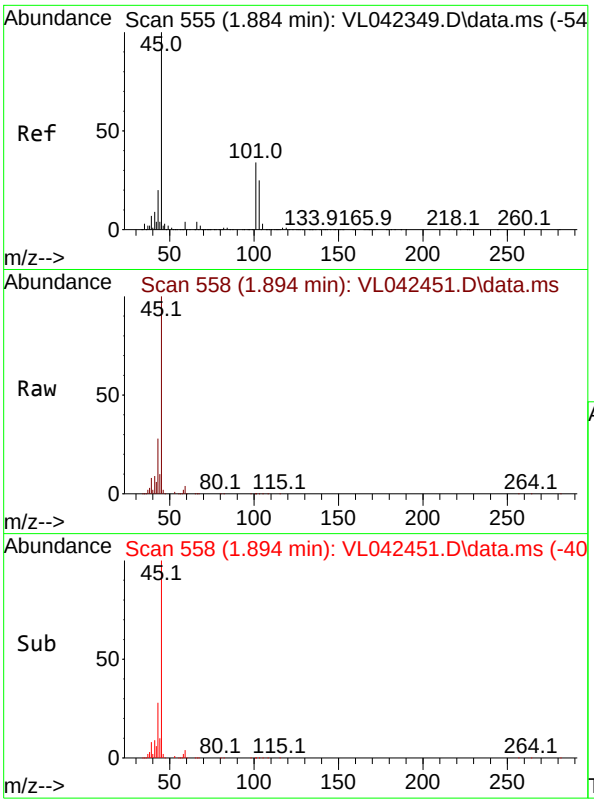




#17
tert-Butyl alcohol
Concen: 0.708 ppbv
RT: 2.049 min Scan# 606
Delta R.T. 0.010 min
Lab File: VL042451.D
Acq: 29 Apr 2025 17:37

Tgt Ion: 59 Resp: 16691

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 15.5 | 8.7 | 13.1# |



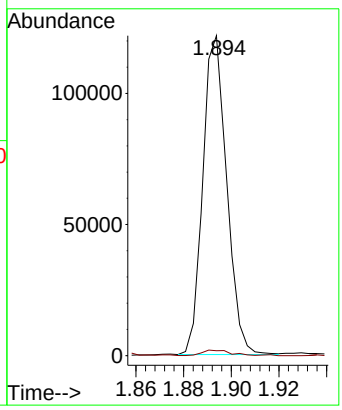


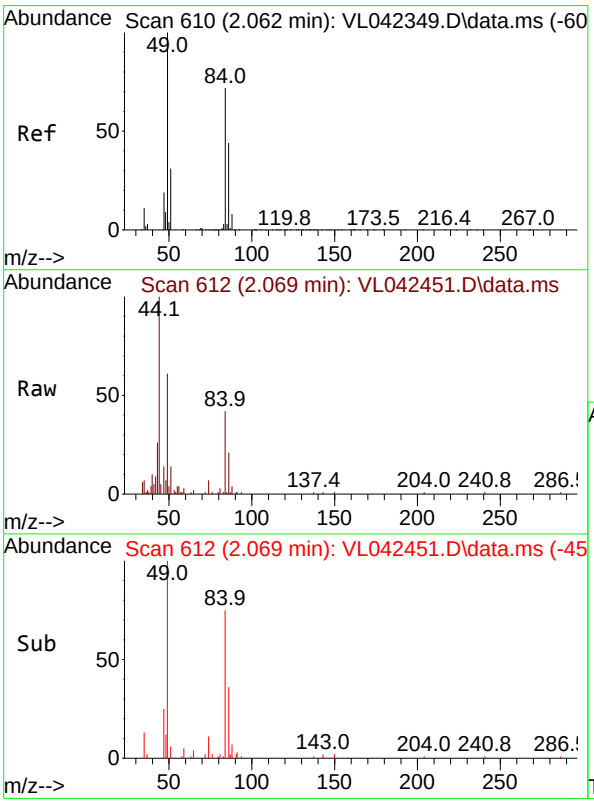

#19
Isopropyl Alcohol
Concen: 8.017 ppbv
RT: 1.894 min Scan# 5
Delta R.T. 0.010 min
Lab File: VL042451.D
Acq: 29 Apr 2025 17:37

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025DL

Tgt Ion: 45 Resp: 84766

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 2.1 | 34.5 | 51.7# |

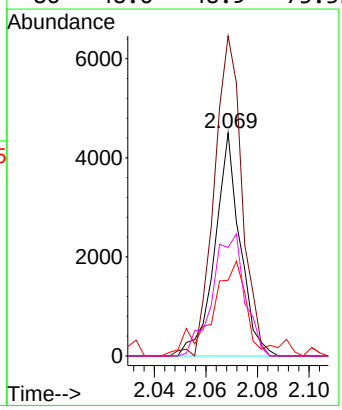


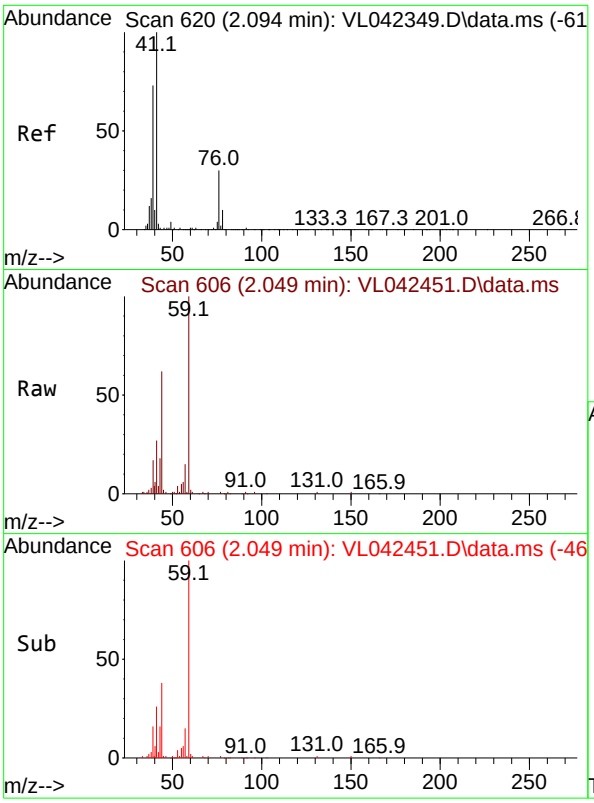




#20
Methylene Chloride
Concen: 0.410 ppbv
RT: 2.069 min Scan# 612
Delta R.T. 0.007 min
Lab File: VL042451.D
Acq: 29 Apr 2025 17:37

Tgt Ion: 84 Resp: 3055

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 143.5 | 111.6 | 167.4 |
| 51 | 31.2 | 35.1 | 52.7# |
| 86 | 48.6 | 48.9 | 73.3# |



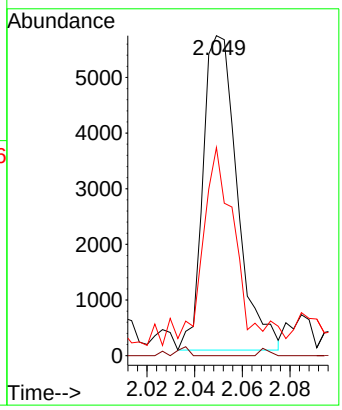


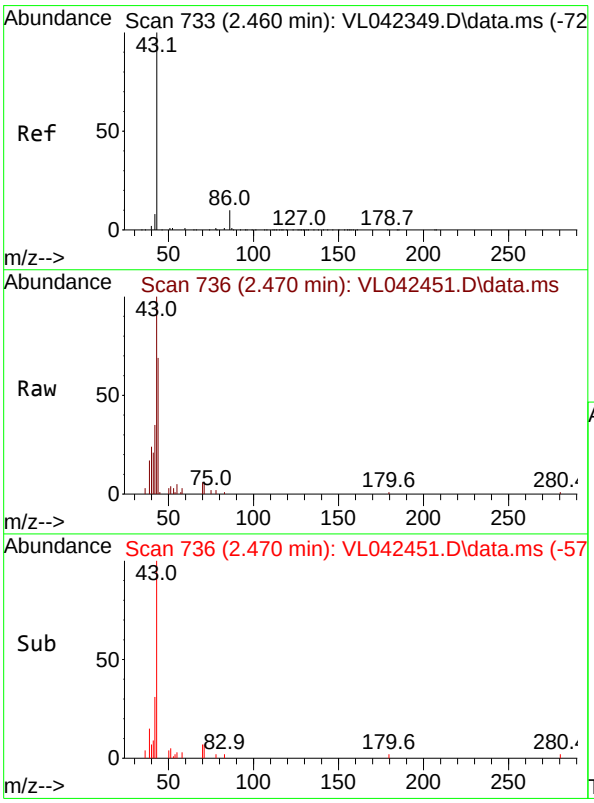

#21
Allyl Chloride
Concen: 0.429 ppbv
RT: 2.049 min Scan# 6
Delta R.T. -0.045 min
Lab File: VL042451.D
Acq: 29 Apr 2025 17:37

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025DL

Tgt Ion: 41 Resp: 5640

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 1.2 | 24.8 | 37.2# |
| 39 | 83.0 | 60.6 | 90.8 |

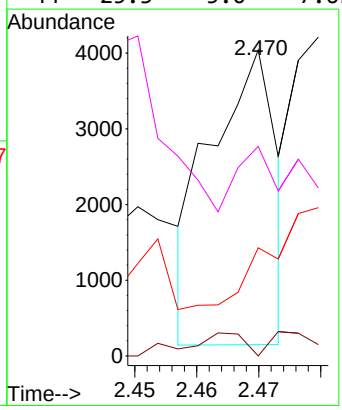


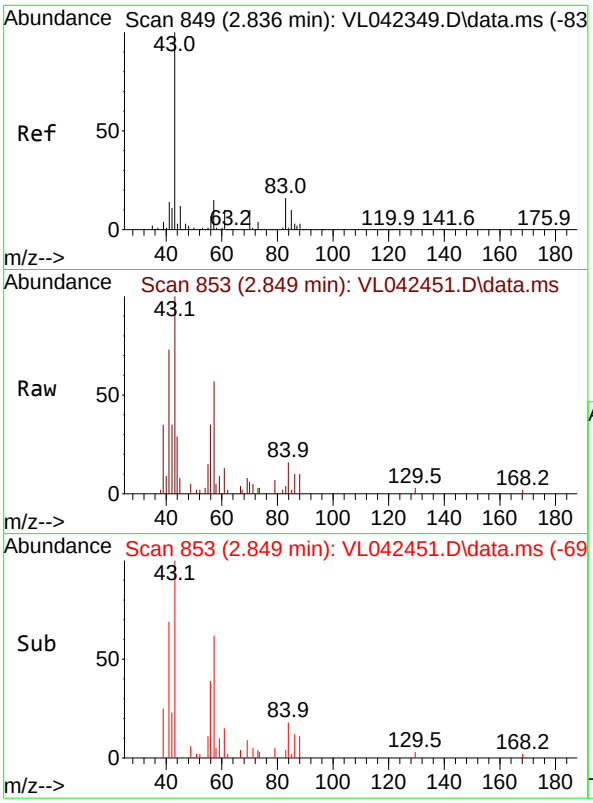




#23
Vinyl Acetate
Concen: 0.374 ppbv
RT: 2.470 min Scan# 736
Delta R.T. 0.010 min
Lab File: VL042451.D
Acq: 29 Apr 2025 17:37

Tgt Ion: 43 Resp: 2885

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 0.0 | 6.5 | 9.7# |
| 42 | 35.0 | 7.8 | 11.8# |
| 44 | 25.3 | 5.0 | 7.6# |



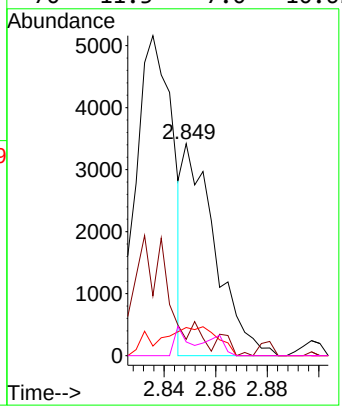


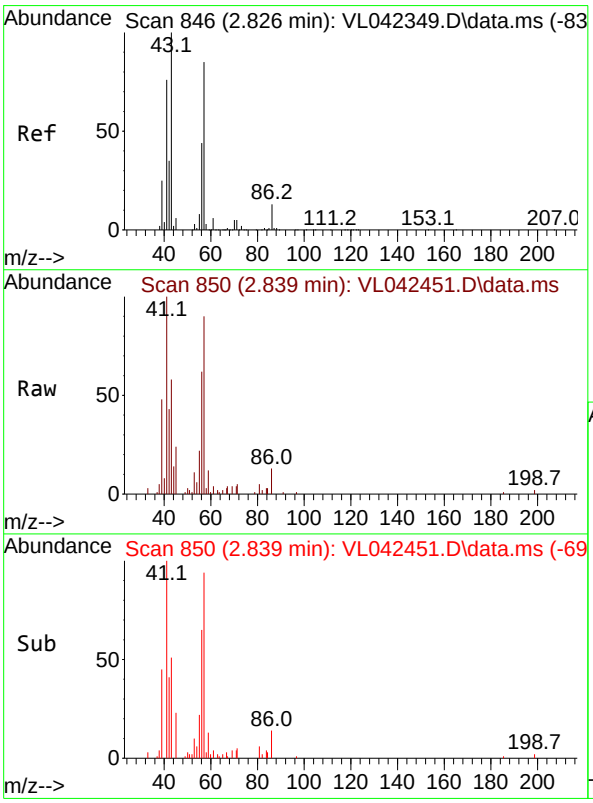

#25
Ethyl Acetate
Concen: 0.063 ppbv
RT: 2.849 min Scan# 8
Delta R.T. 0.013 min
Lab File: VL042451.D
Acq: 29 Apr 2025 17:37

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025DL

Tgt Ion: 43 Resp: 2944

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 0.0 | 8.3 | 12.5# |
| 61 | 25.2 | 7.3 | 10.9# |
| 70 | 11.3 | 7.0 | 10.6# |

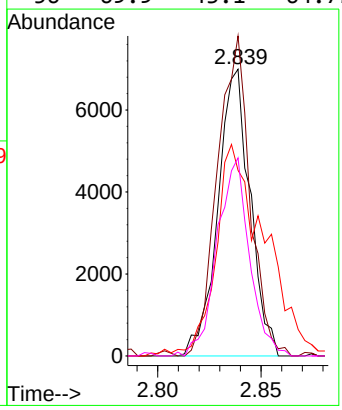


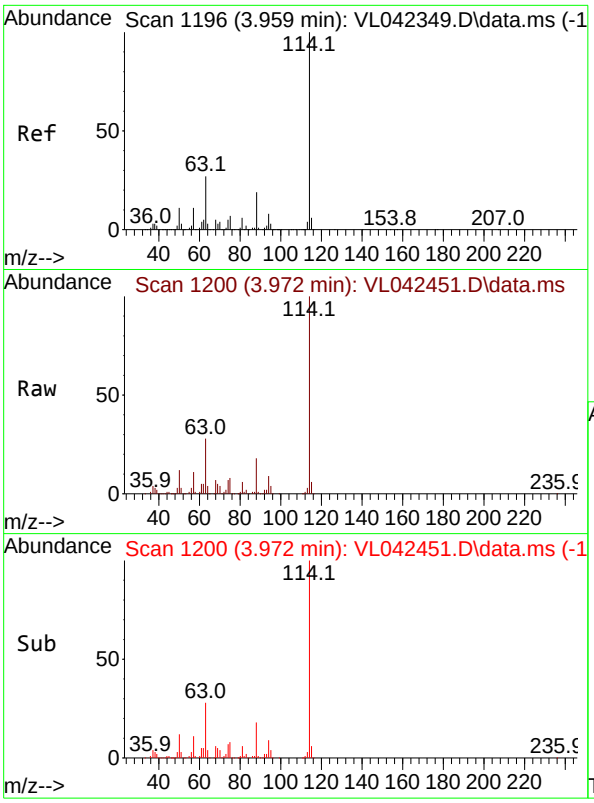




#26
Hexane
Concen: 0.400 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.013 min
Lab File: VL042451.D
Acq: 29 Apr 2025 17:37

Tgt Ion: 57 Resp: 7600

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 113.7 | 77.9 | 116.9 |
| 43 | 111.5 | 208.4 | 312.6# |
| 56 | 69.9 | 43.1 | 64.7# |



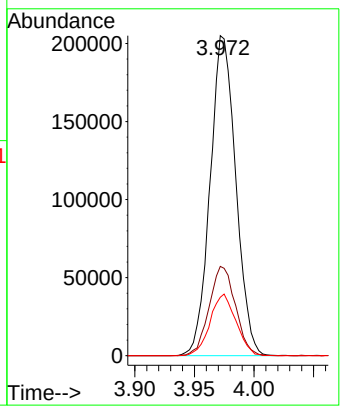


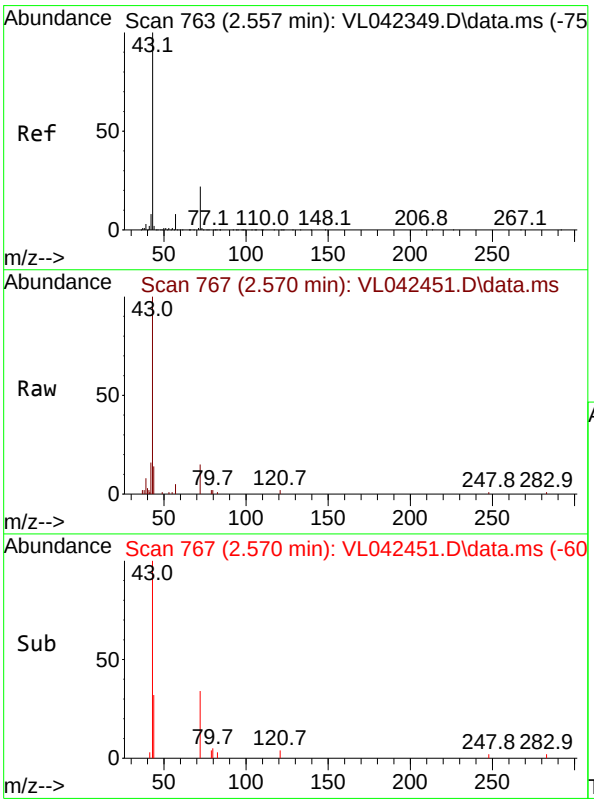

#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.972 min Scan# 1
Delta R.T. 0.013 min
Lab File: VL042451.D
Acq: 29 Apr 2025 17:37

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025DL

Tgt Ion:114 Resp: 307149

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 28.6 | 21.8 | 32.6 |
| 88 | 19.5 | 15.5 | 23.3 |

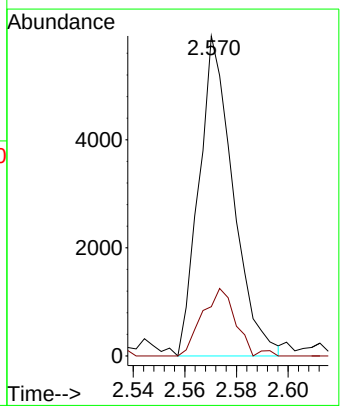


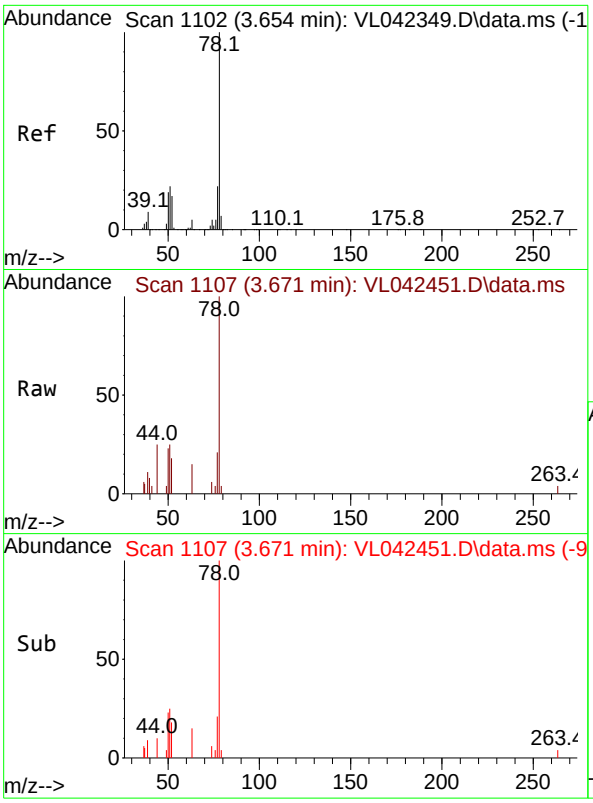




#34
2-Butanone
Concen: 0.223 ppbv
RT: 2.570 min Scan# 767
Delta R.T. 0.013 min
Lab File: VL042451.D
Acq: 29 Apr 2025 17:37

Tgt Ion: 43 Resp: 5426

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 20.8 | 18.2 | 27.2 |



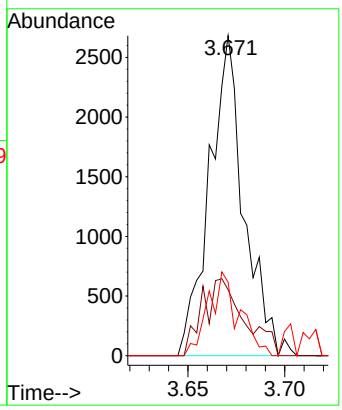


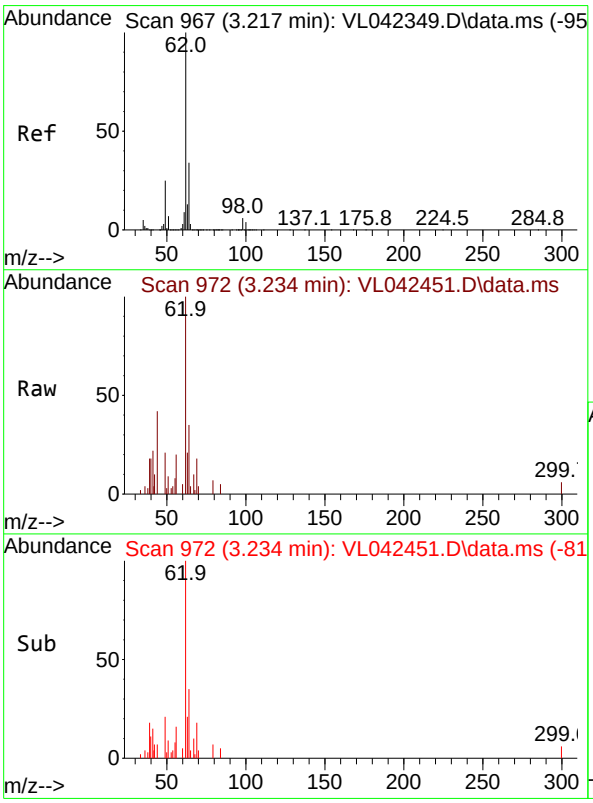

#36
Benzene
Concen: 0.100 ppbv
RT: 3.671 min Scan# 11
Delta R.T. 0.016 min
Lab File: VL042451.D
Acq: 29 Apr 2025 17:37

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025DL

Tgt Ion: 78 Resp: 3299

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 20.6 | 17.4 | 26.0 |
| 50 | 23.0 | 15.5 | 23.3 |

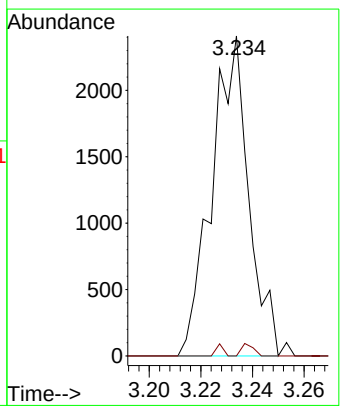


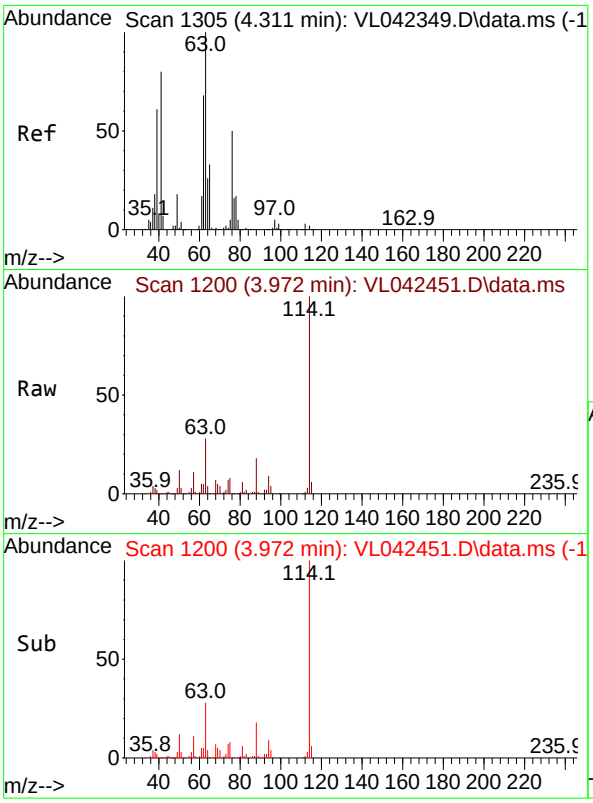




#37
1,2-Dichloroethane
Concen: 0.120 ppbv
RT: 3.234 min Scan# 972
Delta R.T. 0.016 min
Lab File: VL042451.D
Acq: 29 Apr 2025 17:37

Tgt Ion: 62 Resp: 2395

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 2.0 | 5.1 | 7.7# |



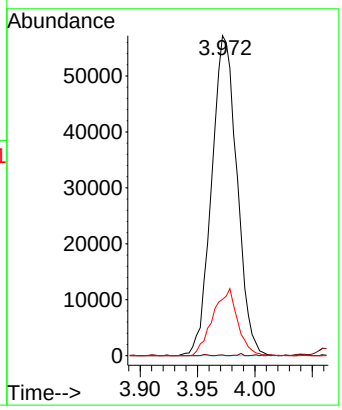


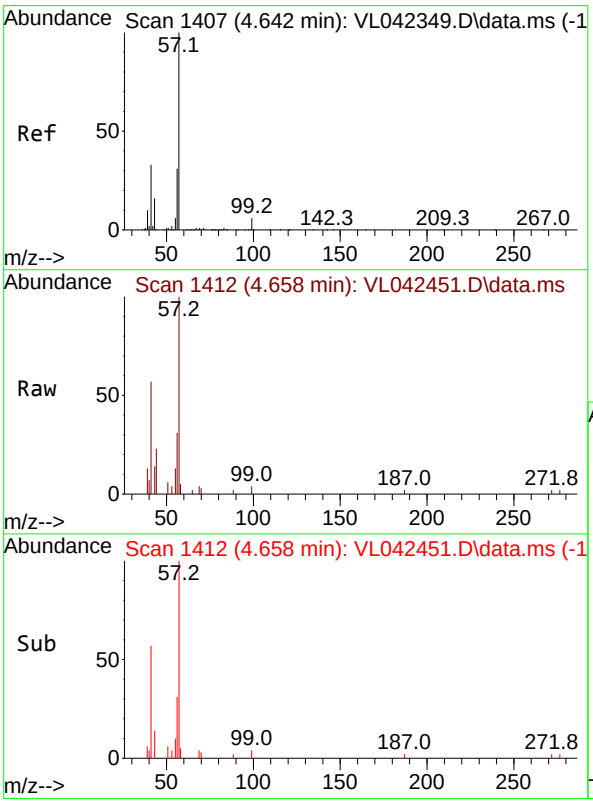

#39
1,2-Dichloropropane
Concen: 7.115 ppbv
RT: 3.972 min Scan# 1
Delta R.T. -0.340 min
Lab File: VL042451.D
Acq: 29 Apr 2025 17:37

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025DL

Tgt Ion: 63 Resp: 87837

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 0.6 | 64.2 | 96.2# |
| 62 | 17.6 | 54.3 | 81.5# |

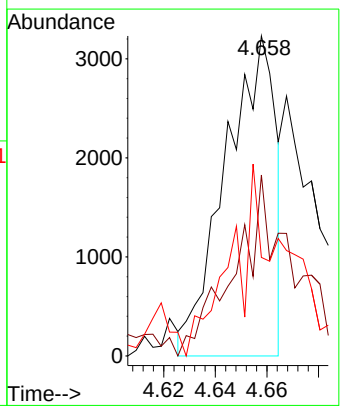


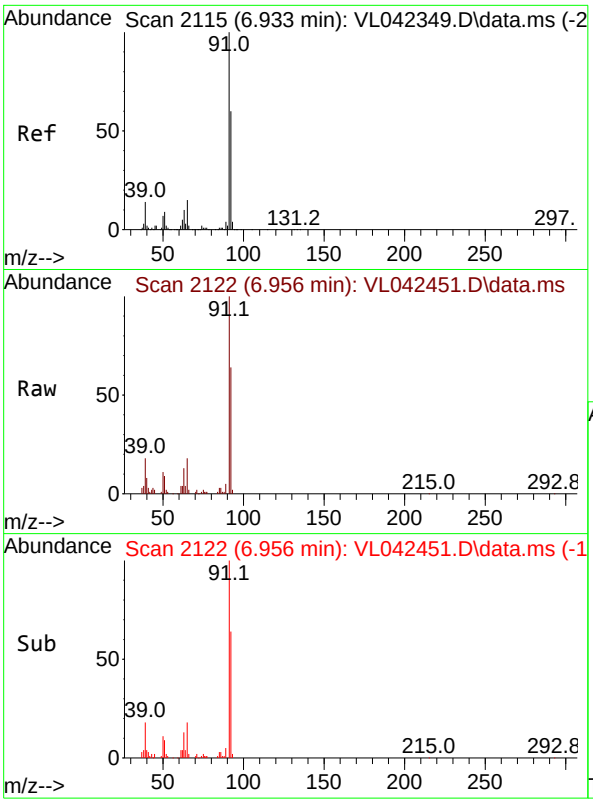




#44
2,2,4-Trimethylpentane
Concen: 0.076 ppbv
RT: 4.658 min Scan# 1412
Delta R.T. 0.016 min
Lab File: VL042451.D
Acq: 29 Apr 2025 17:37

Tgt Ion: 57 Resp: 4356

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 72.5 | 27.2 | 40.8# |
| 56 | 73.4 | 25.7 | 38.5# |



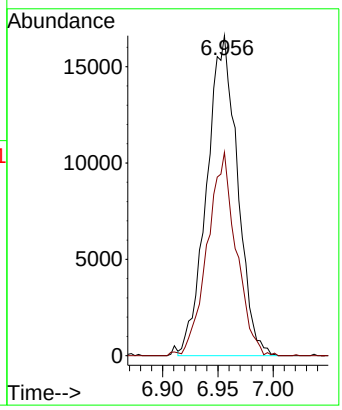


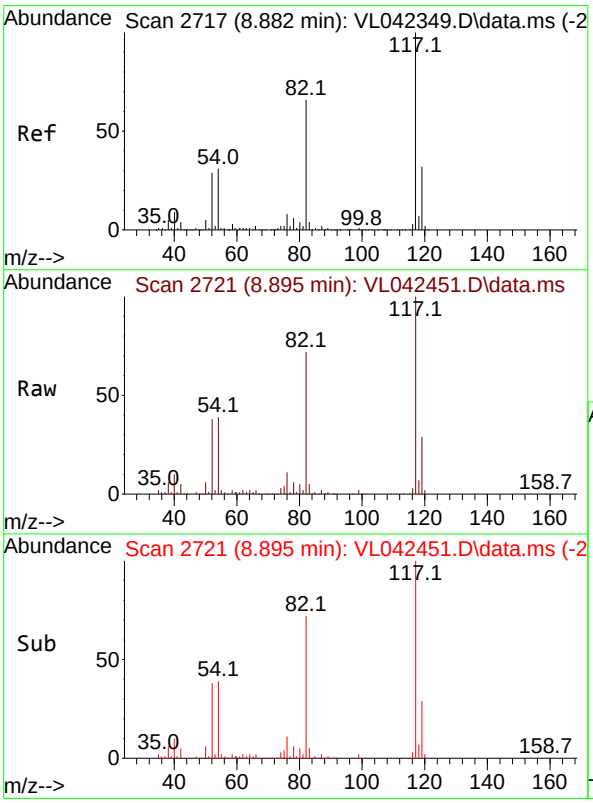

#53
Toluene
Concen: 0.806 ppbv
RT: 6.956 min Scan# 21
Delta R.T. 0.023 min
Lab File: VL042451.D
Acq: 29 Apr 2025 17:37

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025DL

Tgt Ion: 91 Resp: 32058

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 59.8 | 48.2 | 72.4 |

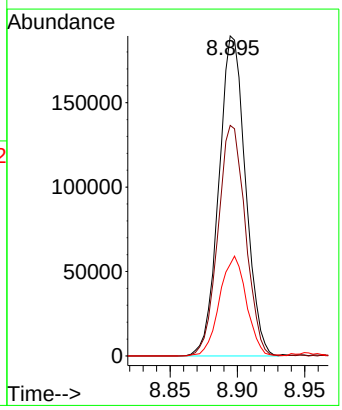


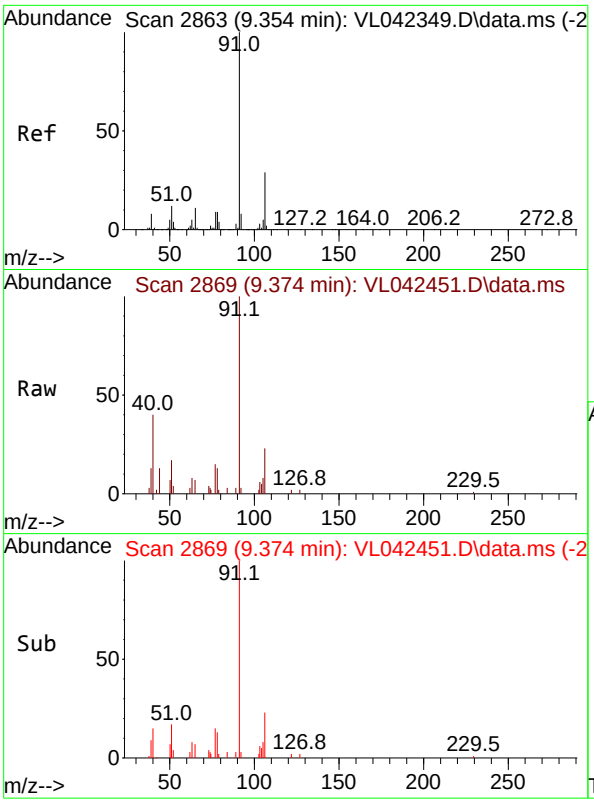




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.895 min Scan# 2721
Delta R.T. 0.013 min
Lab File: VL042451.D
Acq: 29 Apr 2025 17:37

Tgt Ion:117 Resp: 260772

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 74.0 | 57.8 | 86.6 |
| 119 | 31.5 | 25.2 | 37.8 |



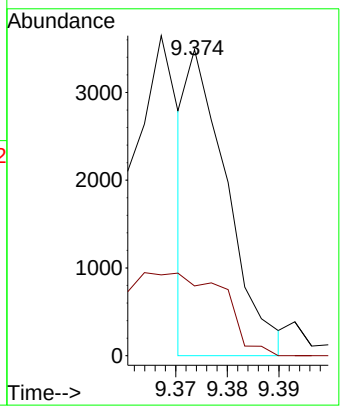


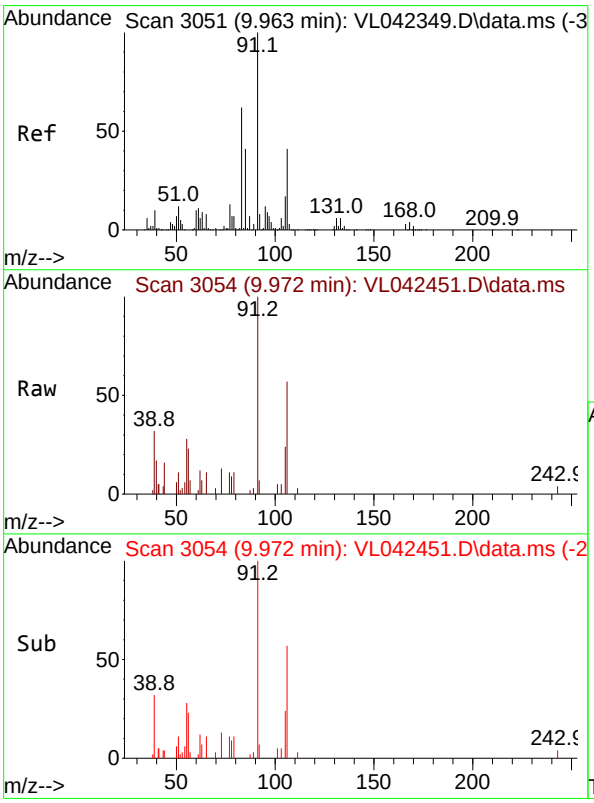

#58
Ethyl Benzene
Concen: 0.036 ppbv
RT: 9.374 min Scan# 2
Delta R.T. 0.020 min
Lab File: VL042451.D
Acq: 29 Apr 2025 17:37

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025DL

Tgt Ion: 91 Resp: 1871

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 24.9 | 23.0 | 34.4 |

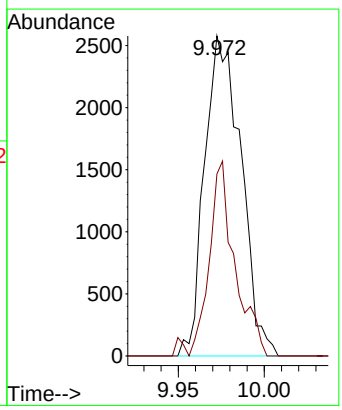


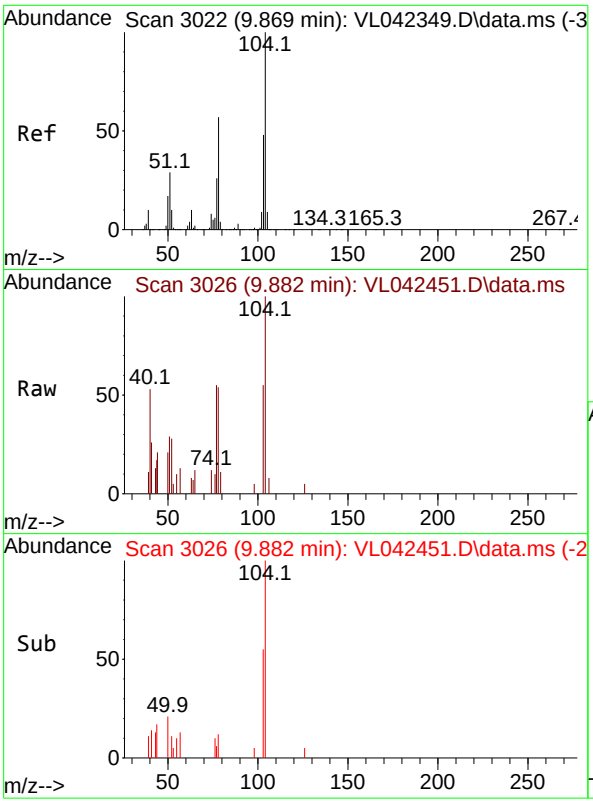




#60
o-Xylene
Concen: 0.091 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. 0.010 min
Lab File: VL042451.D
Acq: 29 Apr 2025 17:37

Tgt Ion: 91 Resp: 3798

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 43.5 | 21.1 | 63.4 |



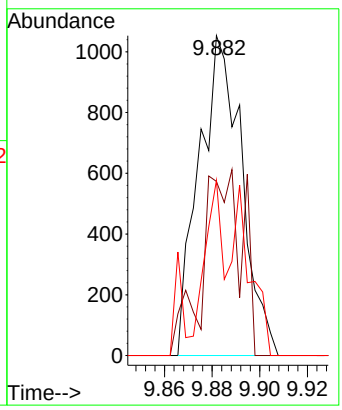


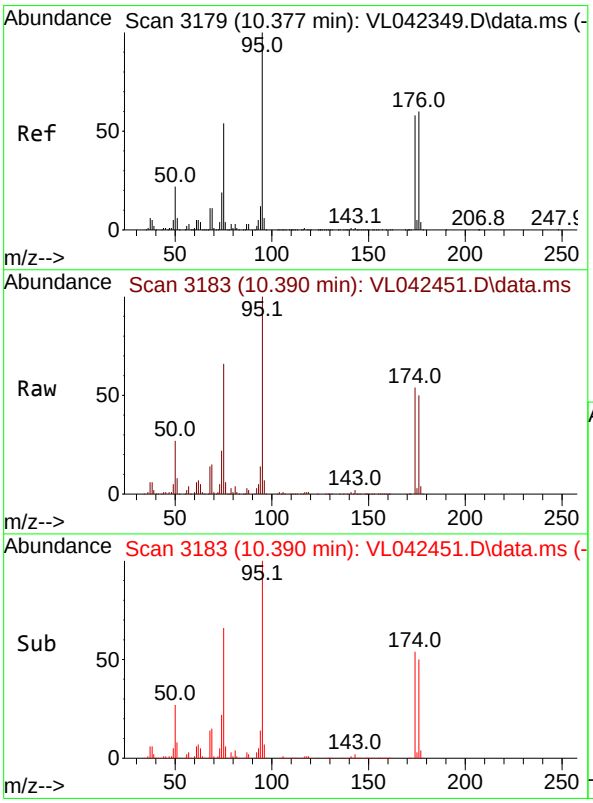

#61
Styrene
Concen: 0.065 ppbv
RT: 9.882 min Scan# 3
Delta R.T. 0.013 min
Lab File: VL042451.D
Acq: 29 Apr 2025 17:37

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025DL

Tgt Ion:104 Resp: 1303

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 54.4 | 44.6 | 66.8 |
| 103 | 52.6 | 37.4 | 56.0 |

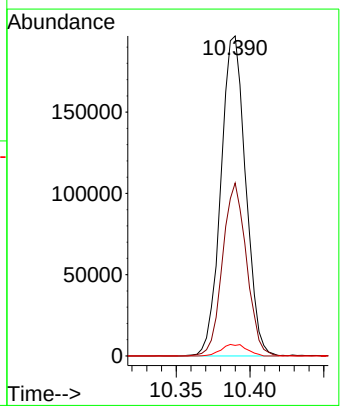


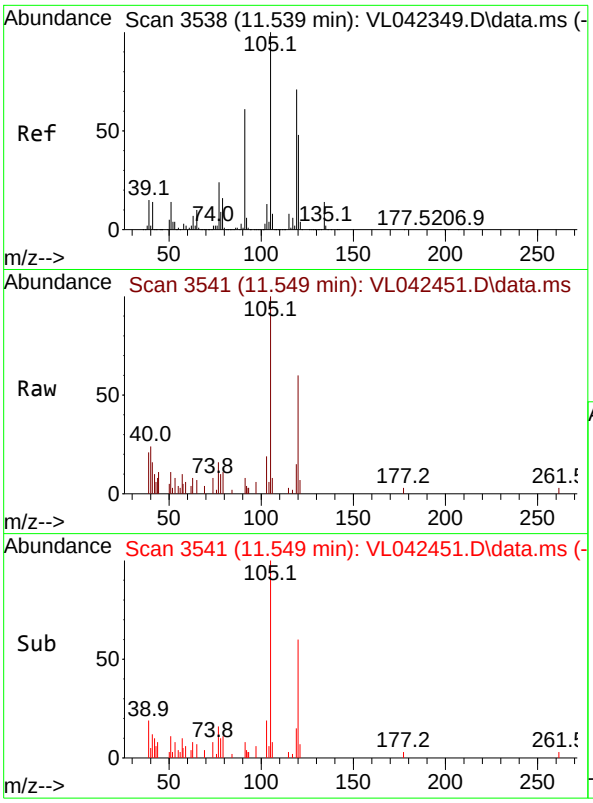




#68
1-Bromo-4-Fluorobenzene
Concen: 10.733 ppbv
RT: 10.390 min Scan# 3183
Delta R.T. 0.013 min
Lab File: VL042451.D
Acq: 29 Apr 2025 17:37

Tgt Ion: 95 Resp: 230005

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 52.2 | 48.5 | 72.7 |
| 175 | 3.8 | 3.7 | 5.5 |



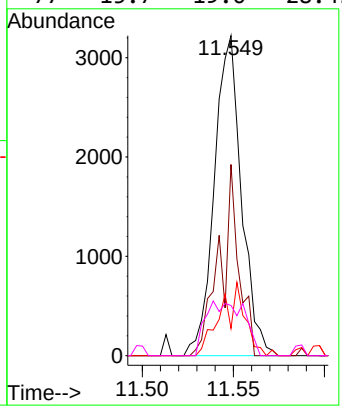



#74
1,2,4-Trimethylbenzene
Concen: 0.063 ppbv
RT: 11.549 min Scan# 3
Delta R.T. 0.010 min
Lab File: VL042451.D
Acq: 29 Apr 2025 17:37

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-DUP-1-3242025DL

Tgt Ion:105 Resp: 3330

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 59.7 | 38.1 | 57.1# |
| 91 | 8.5 | 48.8 | 73.2# |
| 77 | 15.7 | 19.0 | 28.4# |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
Data File : VL042452.D
Acq On : 29 Apr 2025 18:09
Operator : SY/MD
Sample : Q1665-19DL 4X
Misc : 400mL/MSVOA_L
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025DL

Quant Time: Apr 30 01:24:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

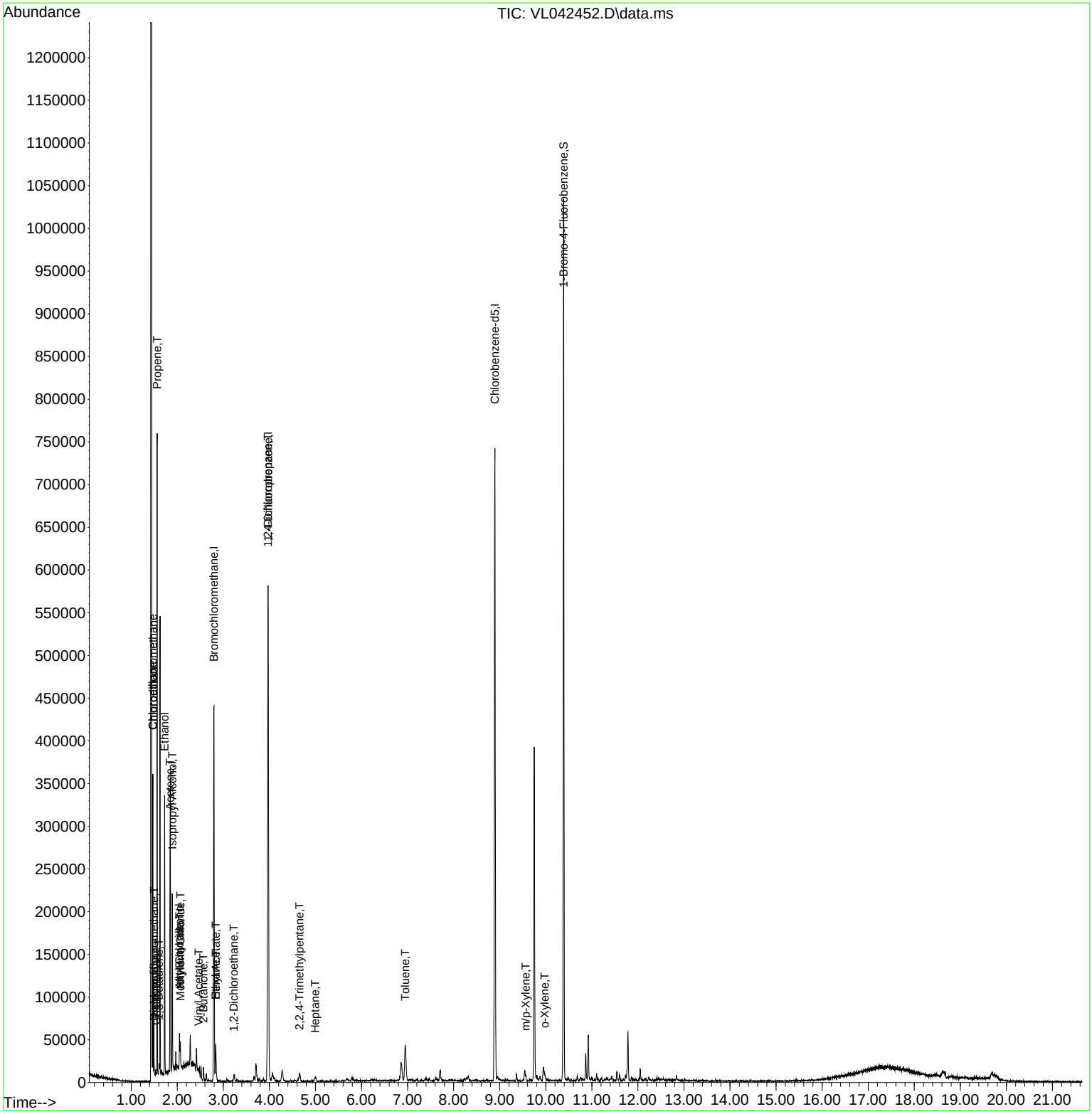
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.794 | 49 | 114403 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.972 | 114 | 305602 | 10.000 | ppbv | 0.01 |
| 55) Chlorobenzene-d5 | 8.895 | 117 | 261578 | 10.000 | ppbv | 0.01 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.387 | 95 | 242040 | 11.260 | ppbv | 0.01 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 112.600% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.499 | 85 | 2645 | 0.131 | ppbv | 99 |
| 3) Chlorodifluoromethane | 1.470 | 51 | 74252 | 3.858 | ppbv # | 57 |
| 4) Chloromethane | 1.535 | 50 | 1338 | 0.167 | ppbv # | 44 |
| 7) Chloroethane | 1.470 | 64 | 3753 | 1.192 | ppbv | 100 |
| 9) Propene | 1.564 | 41 | 86624 | 9.882 | ppbv | 97 |
| 10) Heptane | 4.991 | 43 | 811 | 0.033 | ppbv # | 27 |
| 13) Ethanol | 1.726 | 45 | 110989 | 79.664 | ppbv | 76 |
| 15) Acetone | 1.842 | 43 | 115137 | 6.148 | ppbv # | 85 |
| 16) 1,3-Butadiene | 1.603 | 39 | 1421 | 0.159 | ppbv # | 9 |
| 17) tert-Butyl alcohol | 2.049 | 59 | 15817 | 0.681 | ppbv # | 92 |
| 19) Isopropyl Alcohol | 1.891 | 45 | 80028 | 7.692 | ppbv # | 36 |
| 20) Methylene Chloride | 2.069 | 84 | 3847 | 0.525 | ppbv # | 83 |
| 21) Allyl Chloride | 2.049 | 41 | 4493 | 0.347 | ppbv # | 85 |
| 23) Vinyl Acetate | 2.464 | 43 | 6705 | 0.884 | ppbv # | 72 |
| 25) Ethyl Acetate | 2.836 | 43 | 3860 | 0.084 | ppbv # | 74 |
| 26) Hexane | 2.836 | 57 | 8047 | 0.431 | ppbv # | 42 |
| 34) 2-Butanone | 2.567 | 43 | 8758 | 0.362 | ppbv | 97 |
| 37) 1,2-Dichloroethane | 3.227 | 62 | 2347 | 0.119 | ppbv # | 81 |
| 39) 1,2-Dichloropropane | 3.969 | 63 | 89205 | 7.262 | ppbv # | 23 |
| 44) 2,2,4-Trimethylpentane | 4.655 | 57 | 2244 | 0.039 | ppbv # | 1 |
| 53) Toluene | 6.950 | 91 | 15746 | 0.398 | ppbv # | 39 |
| 59) m/p-Xylene | 9.565 | 91 | 1536 | 0.037 | ppbv # | 32 |
| 60) o-Xylene | 9.976 | 91 | 2743 | 0.065 | ppbv | 85 |

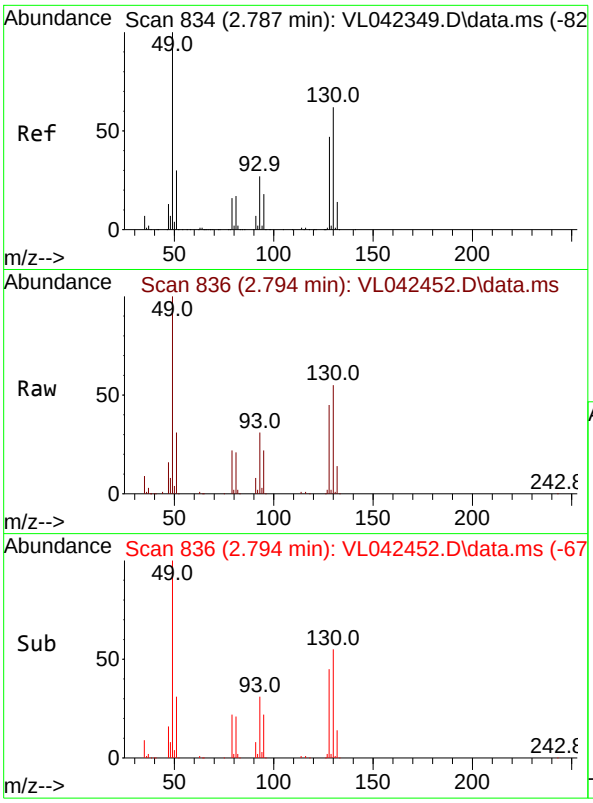
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
Data File : VL042452.D
Acq On : 29 Apr 2025 18:09
Operator : SY/MD
Sample : Q1665-19DL 4X
Misc : 400mL/MSVOA_L
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025DL

Quant Time: Apr 30 01:24:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration



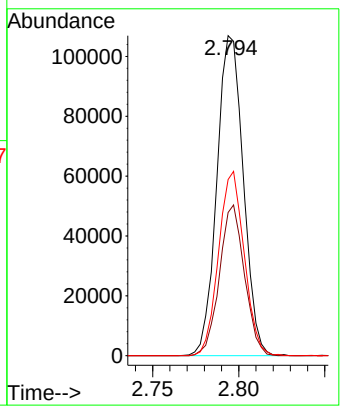


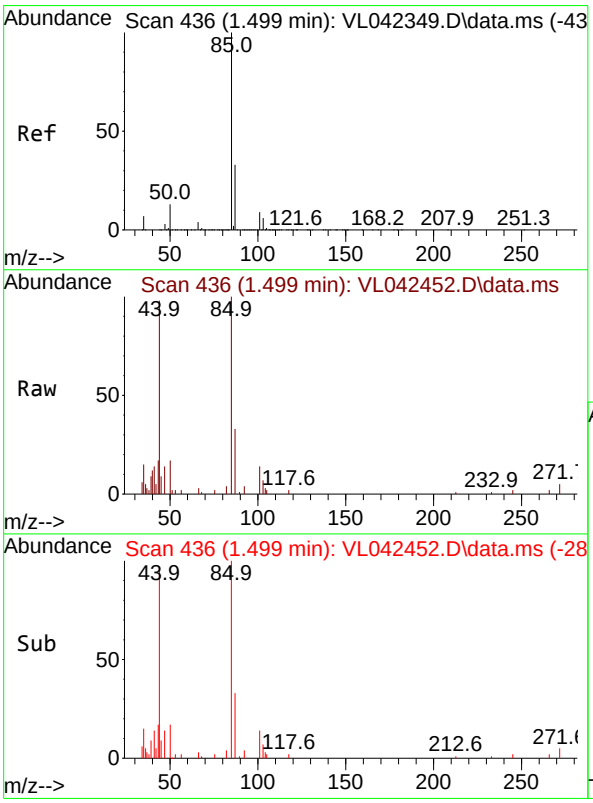

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 8
Delta R.T. 0.007 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025DL

Tgt Ion: 49 Resp: 114403

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 44.4 | 22.8 | 68.4 |
| 130 | 55.9 | 29.3 | 88.0 |

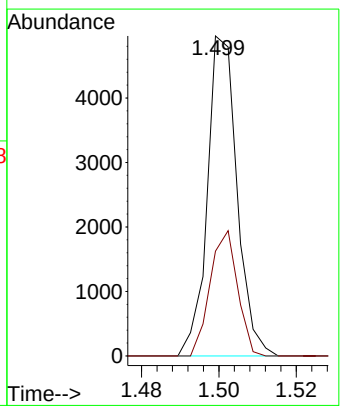


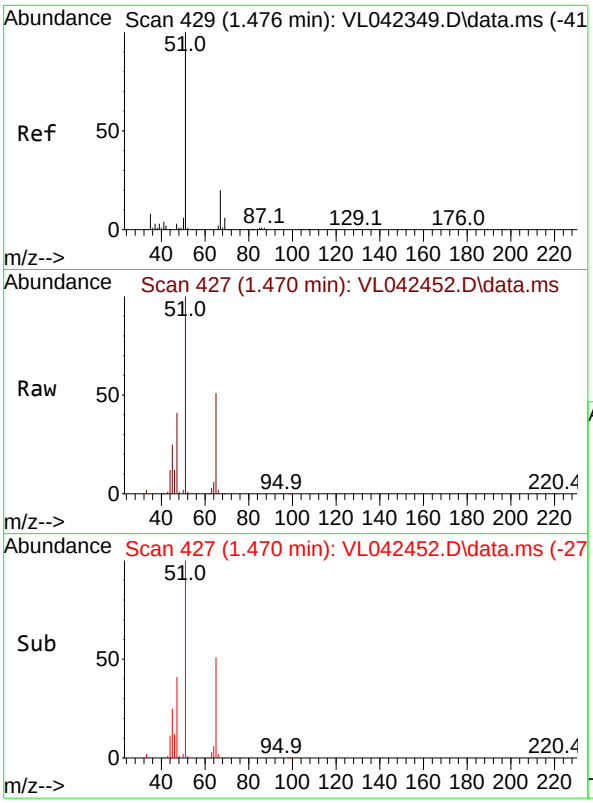




#2
Dichlorodifluoromethane
Concen: 0.131 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

Tgt Ion: 85 Resp: 2645

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.8 | 26.6 | 39.8 |



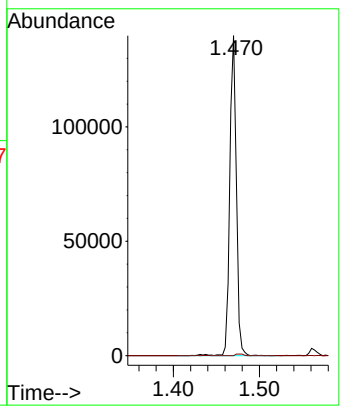


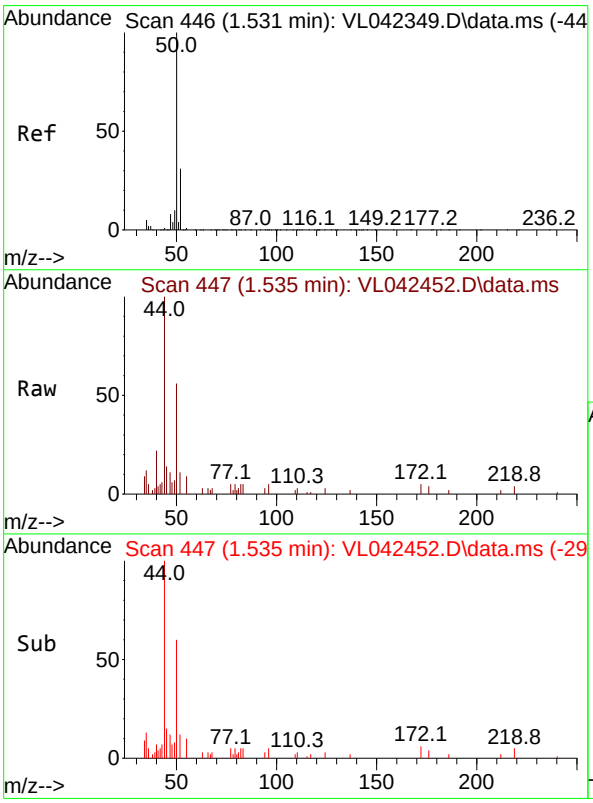

#3
Chlorodifluoromethane
Concen: 3.858 ppbv
RT: 1.470 min Scan# 4
Delta R.T. -0.006 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025DL

Tgt Ion: 51 Resp: 74252

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 0.6 | 16.2 | 24.4# |

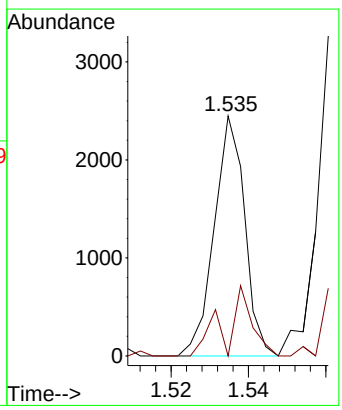


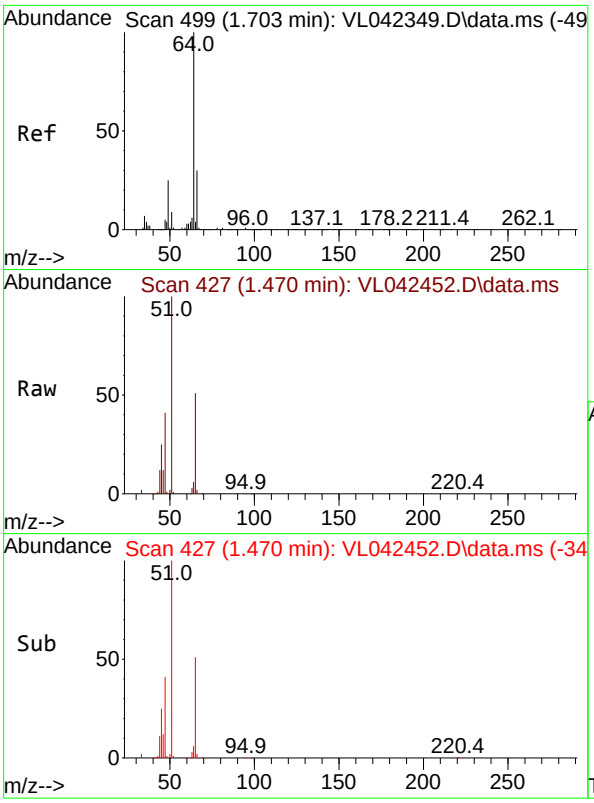




#4
Chloromethane
Concen: 0.167 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.004 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

Tgt Ion: 50 Resp: 1338

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 0.0 | 24.7 | 37.1# |



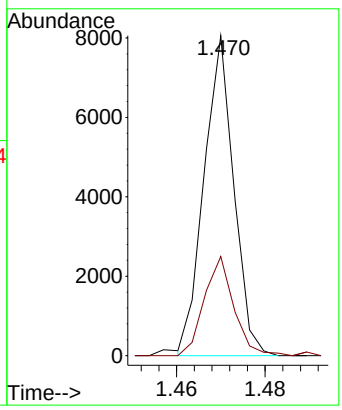


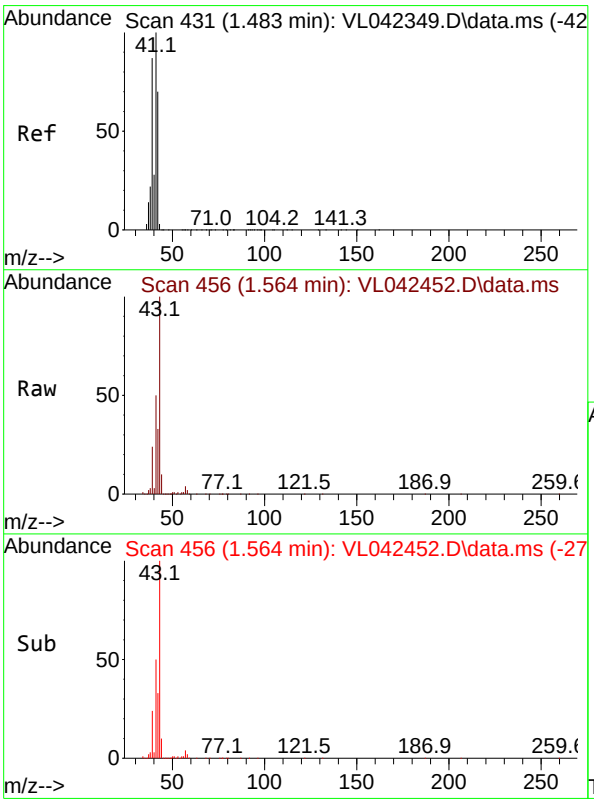

#7
Chloroethane
Concen: 1.192 ppbv
RT: 1.470 min Scan# 4
Delta R.T. -0.233 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025DL

Tgt Ion: 64 Resp: 3753

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 31.0 | 24.6 | 37.0 |

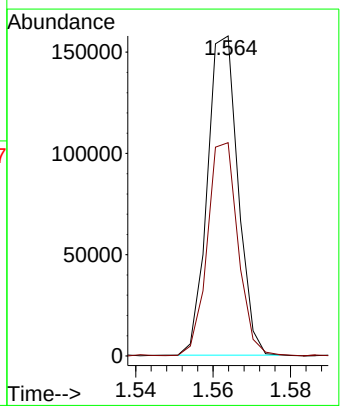


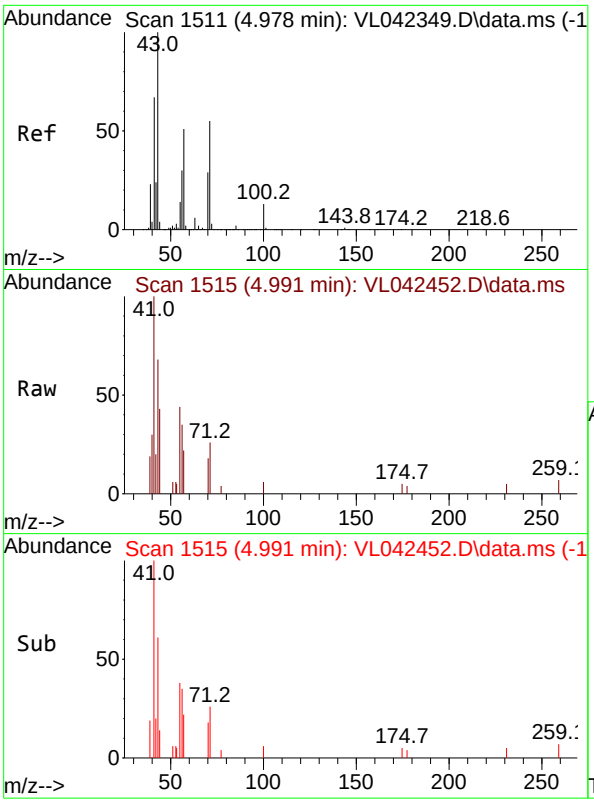




#9
Propene
Concen: 9.882 ppbv
RT: 1.564 min Scan# 456
Delta R.T. 0.081 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

Tgt Ion: 41 Resp: 86624

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 68.0 | 56.2 | 84.4 |



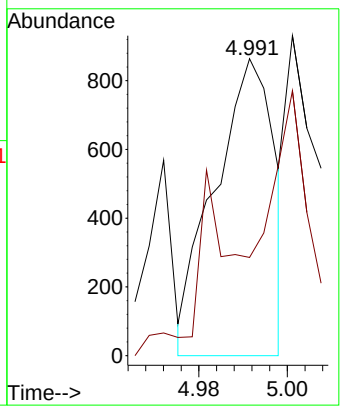


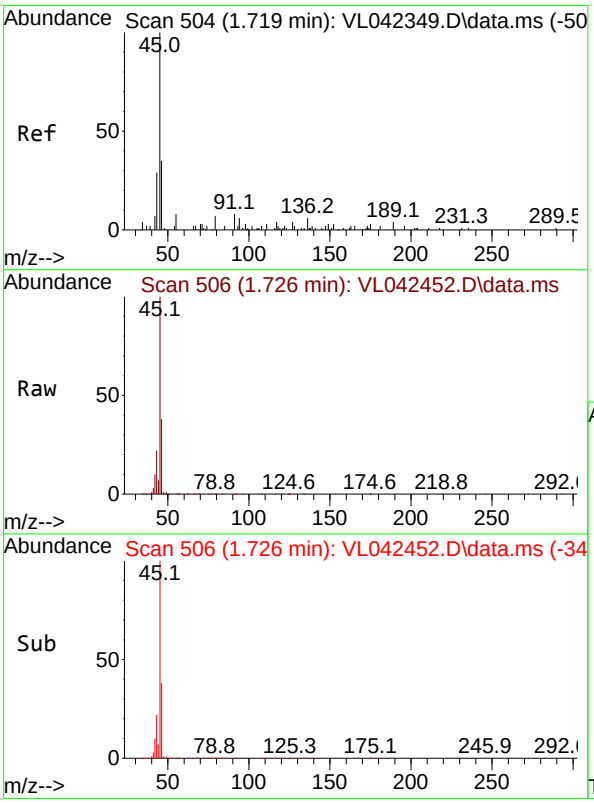

#10
Heptane
Concen: 0.033 ppbv
RT: 4.991 min Scan# 1
Delta R.T. 0.013 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025DL

Tgt Ion: 43 Resp: 811

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 0.0 | 39.9 | 59.9# |

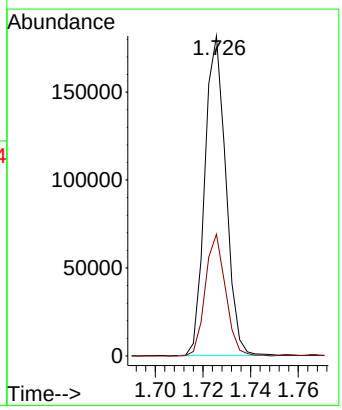


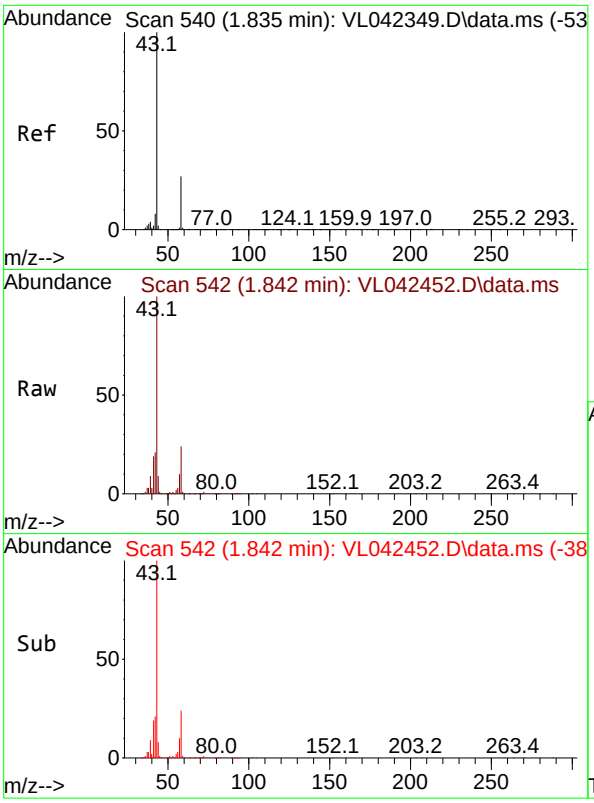




#13
Ethanol
Concen: 79.664 ppbv
RT: 1.726 min Scan# 506
Delta R.T. 0.007 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

Tgt Ion: 45 Resp: 110989

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 37.3 | 21.9 | 87.7 |



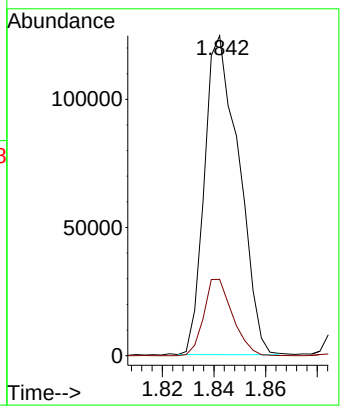


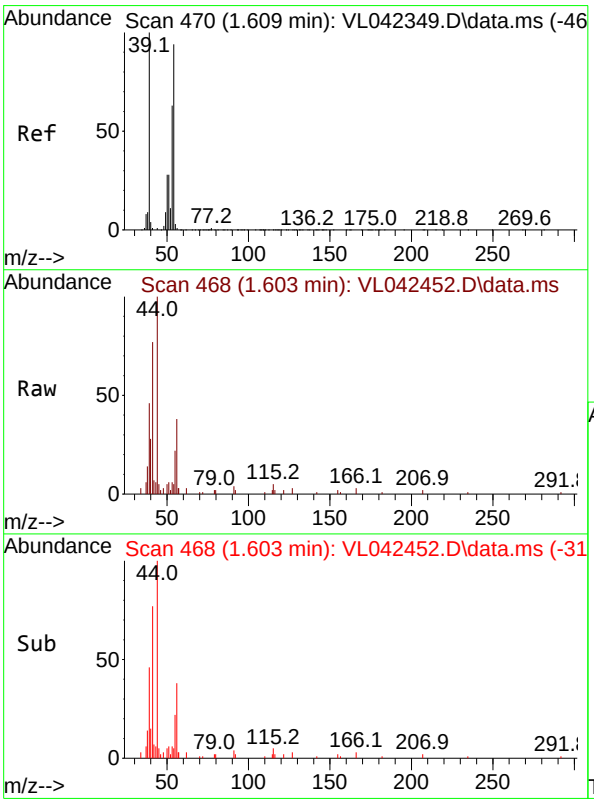

#15
Acetone
Concen: 6.148 ppbv
RT: 1.842 min Scan# 54
Delta R.T. 0.007 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025DL

Tgt Ion: 43 Resp: 115137

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 20.2 | 22.4 | 33.6# |

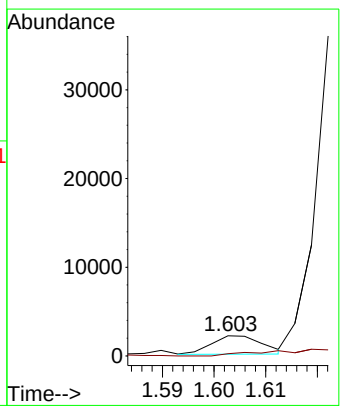


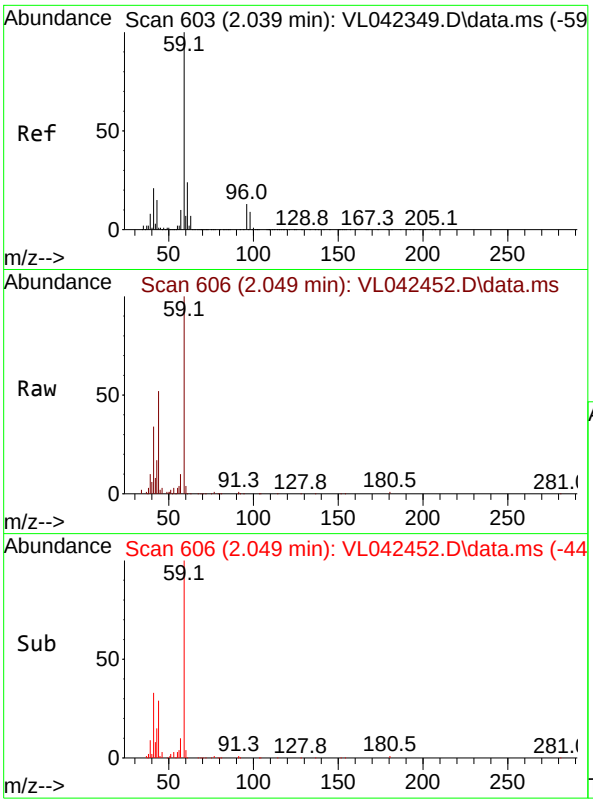




#16
1,3-Butadiene
Concen: 0.159 ppbv
RT: 1.603 min Scan# 468
Delta R.T. -0.006 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

Tgt Ion: 39 Resp: 1421

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 0.0 | 64.9 | 97.3# |



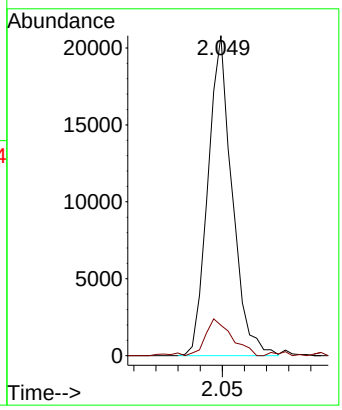


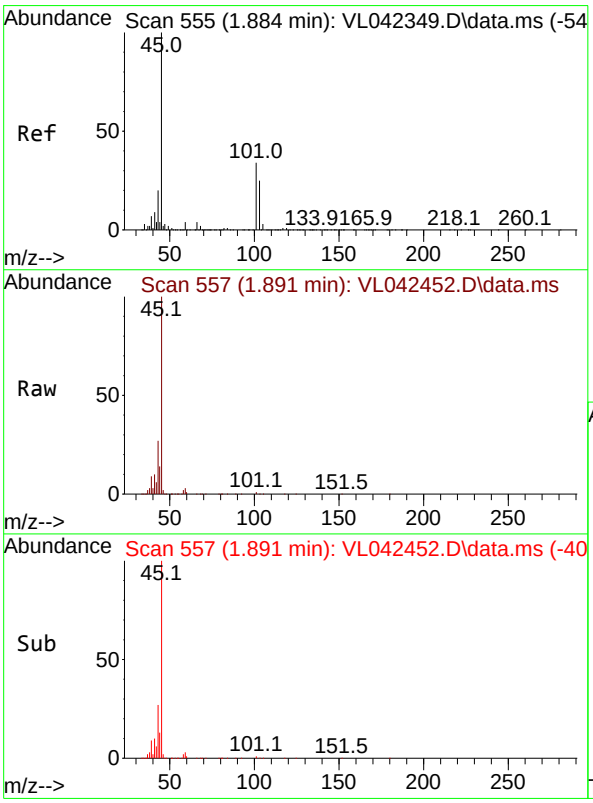

#17
tert-Butyl alcohol
Concen: 0.681 ppbv
RT: 2.049 min Scan# 6
Delta R.T. 0.010 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025DL

Tgt Ion: 59 Resp: 15817

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 14.1 | 8.7 | 13.1# |

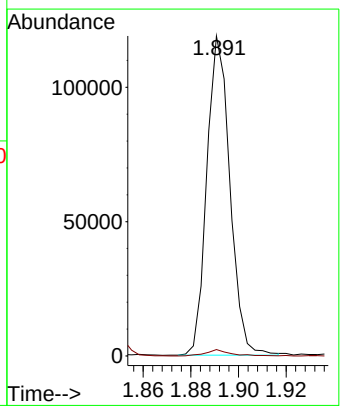


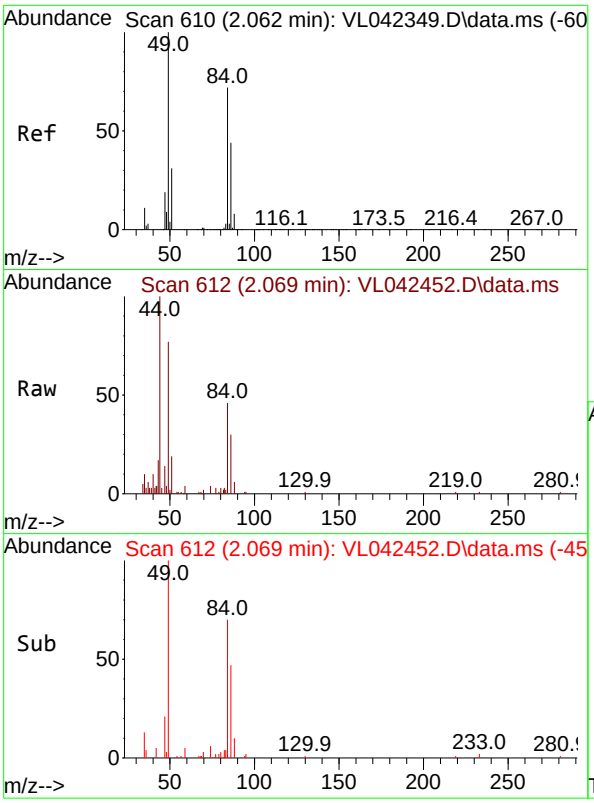




#19
Isopropyl Alcohol
Concen: 7.692 ppbv
RT: 1.891 min Scan# 557
Delta R.T. 0.007 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

Tgt Ion: 45 Resp: 80028

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 2.3 | 34.5 | 51.7# |



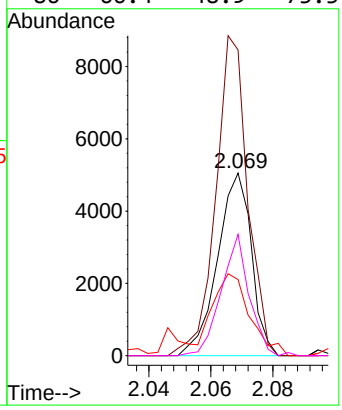


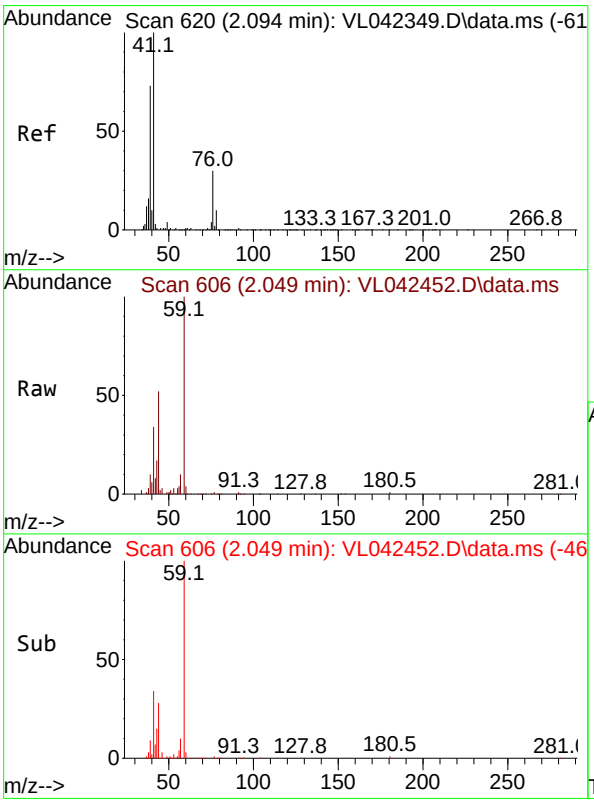

#20
Methylene Chloride
Concen: 0.525 ppbv
RT: 2.069 min Scan# 61
Delta R.T. 0.007 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025DL

Tgt Ion: 84 Resp: 3847

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 167.5 | 111.6 | 167.4# |
| 51 | 35.0 | 35.1 | 52.7# |
| 86 | 66.4 | 48.9 | 73.3 |

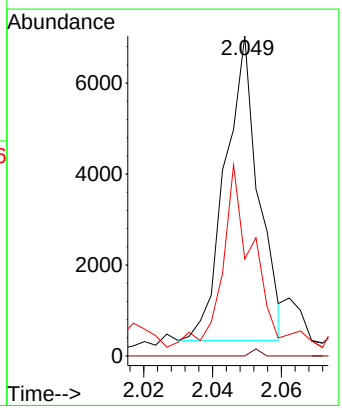


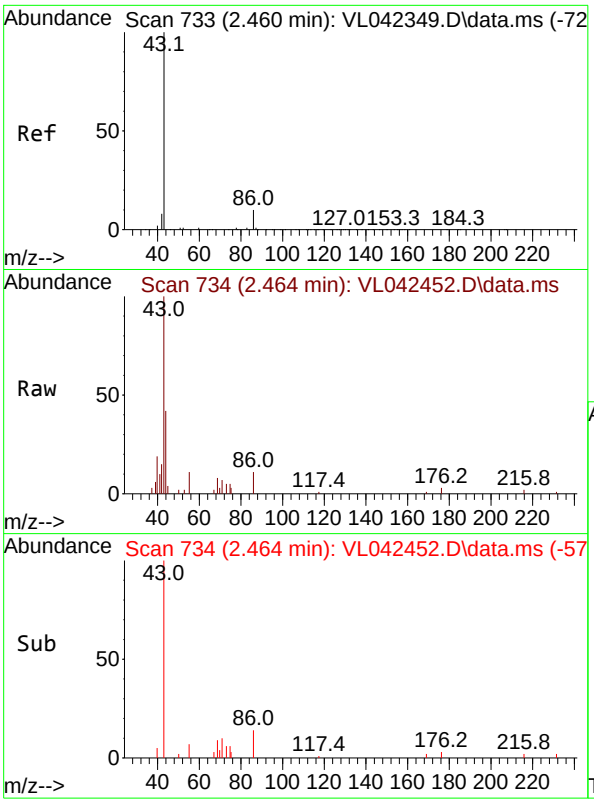




#21
Allyl Chloride
Concen: 0.347 ppbv
RT: 2.049 min Scan# 606
Delta R.T. -0.045 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

Tgt Ion: 41 Resp: 4493

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 8.6 | 24.8 | 37.2# |
| 39 | 72.2 | 60.6 | 90.8 |



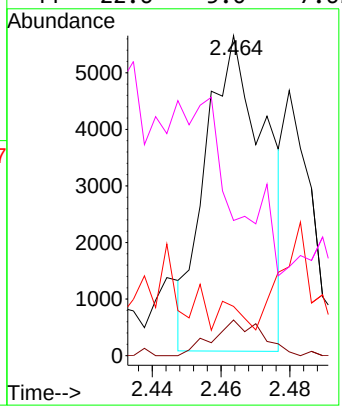


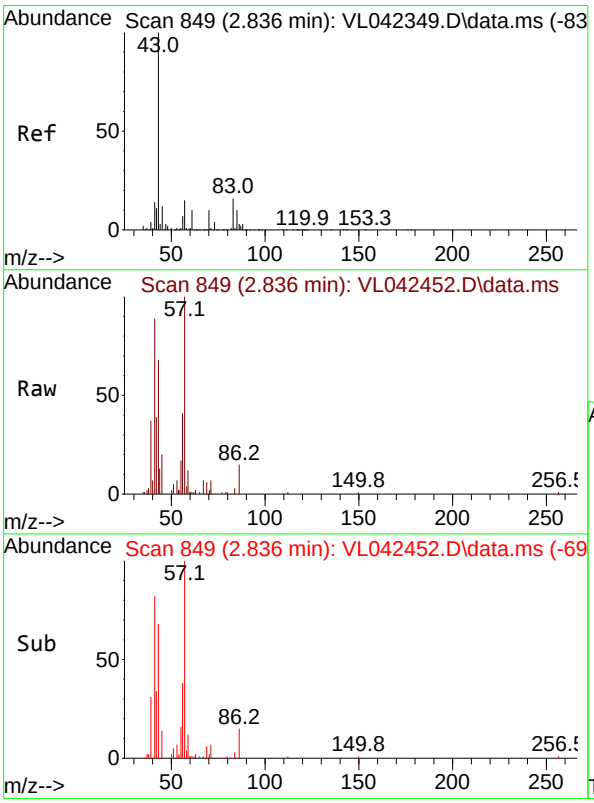

#23
Vinyl Acetate
Concen: 0.884 ppbv
RT: 2.464 min Scan# 7
Delta R.T. 0.004 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025DL

Tgt Ion: 43 Resp: 6705

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 14.6 | 6.5 | 9.7# |
| 42 | 1.7 | 7.8 | 11.8# |
| 44 | 22.6 | 5.0 | 7.6# |

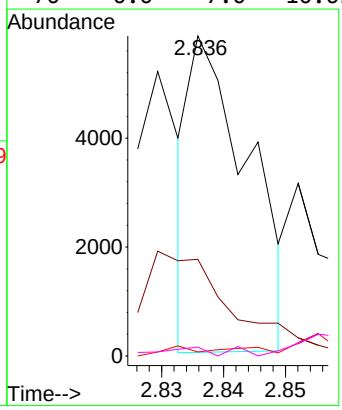


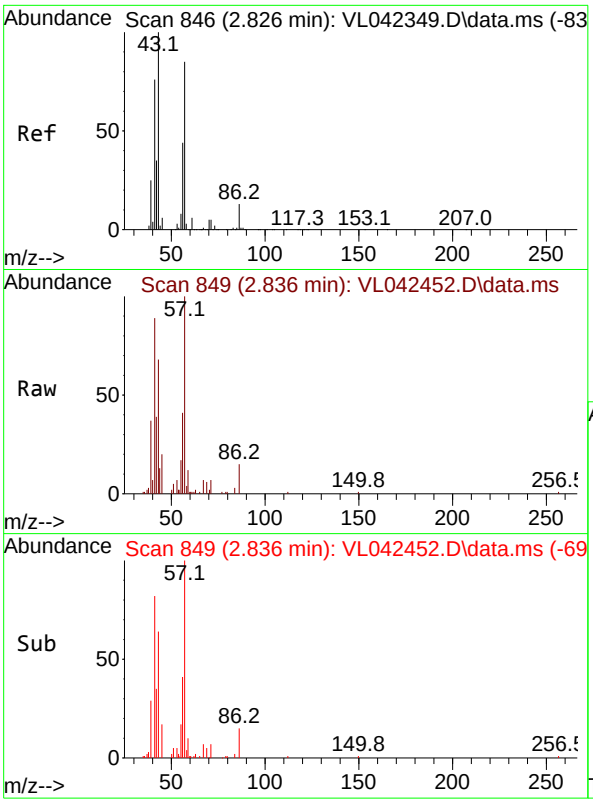




#25
Ethyl Acetate
Concen: 0.084 ppbv
RT: 2.836 min Scan# 849
Delta R.T. 0.000 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

Tgt Ion: 43 Resp: 3860

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 0.0 | 8.3 | 12.5# |
| 61 | 0.0 | 7.3 | 10.9# |
| 70 | 0.0 | 7.0 | 10.6# |



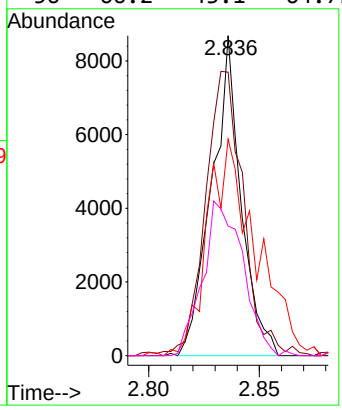


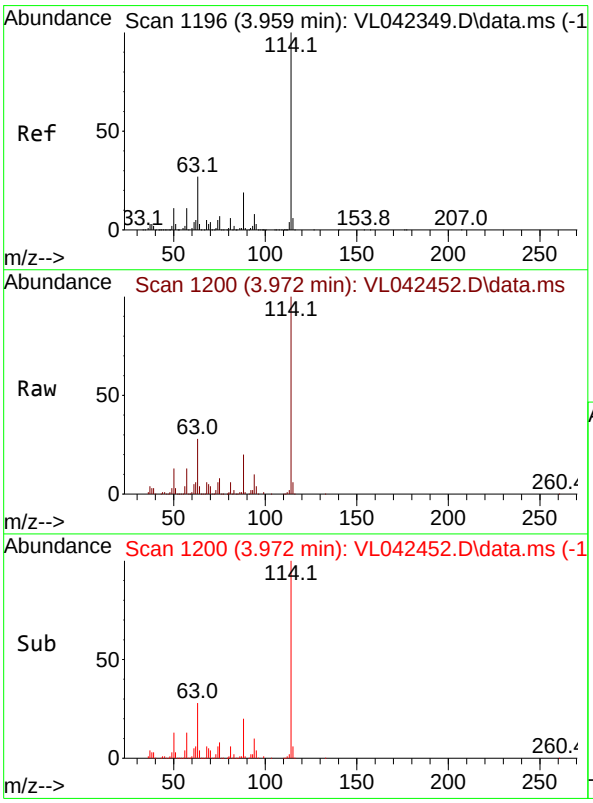

#26
Hexane
Concen: 0.431 ppbv
RT: 2.836 min Scan# 84
Delta R.T. 0.010 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025DL

Tgt Ion: 57 Resp: 8047

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 114.0 | 77.9 | 116.9 |
| 43 | 112.8 | 208.4 | 312.6# |
| 56 | 66.2 | 43.1 | 64.7# |

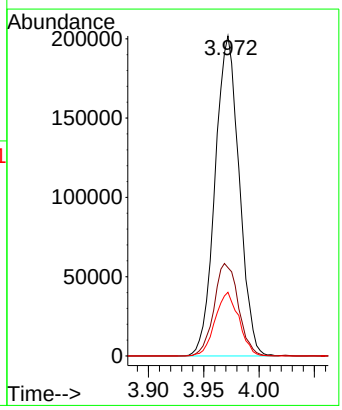


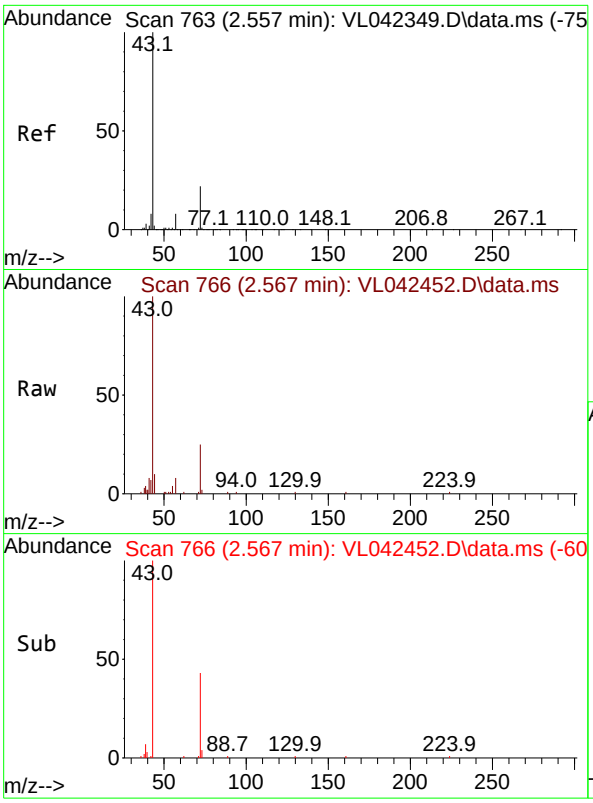




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.972 min Scan# 1200
Delta R.T. 0.013 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

Tgt Ion:114 Resp: 305602

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 29.3 | 21.8 | 32.6 |
| 88 | 19.7 | 15.5 | 23.3 |



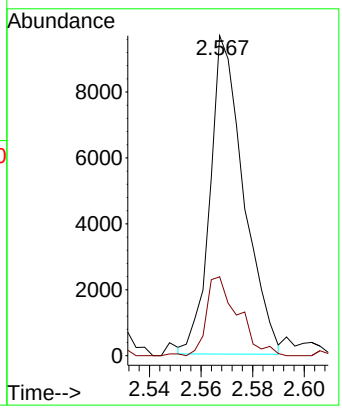


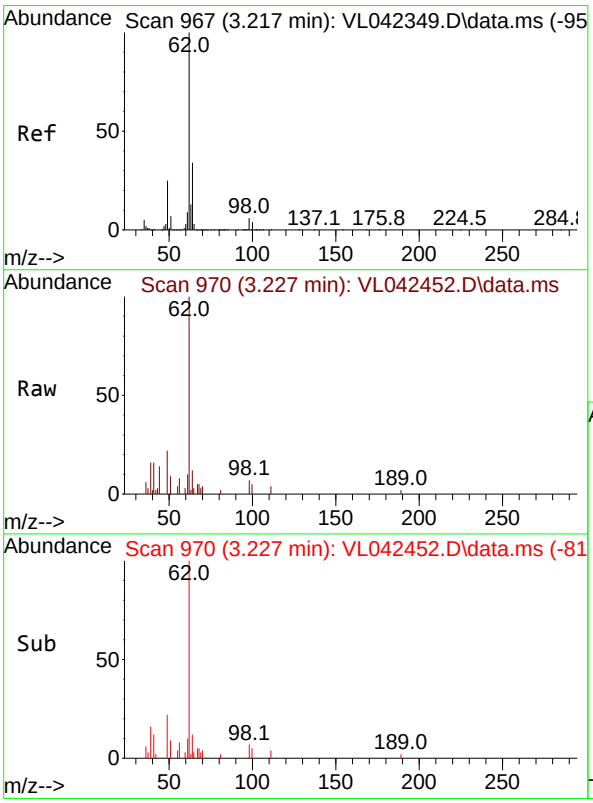

#34
2-Butanone
Concen: 0.362 ppbv
RT: 2.567 min Scan# 7
Delta R.T. 0.010 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025DL

Tgt Ion: 43 Resp: 8758

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 24.0 | 18.2 | 27.2 |

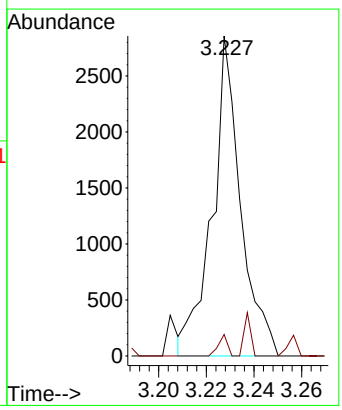


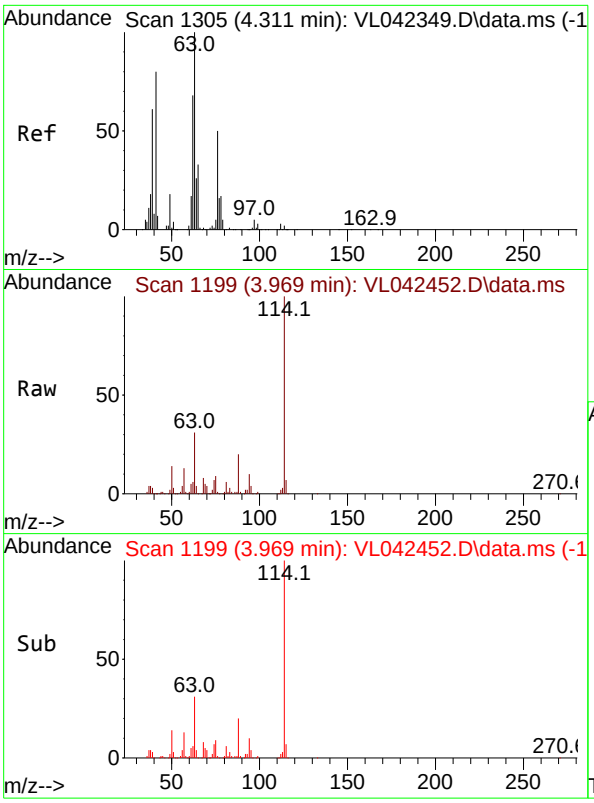




#37
1,2-Dichloroethane
Concen: 0.119 ppbv
RT: 3.227 min Scan# 970
Delta R.T. 0.010 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

Tgt Ion: 62 Resp: 2347

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 0.0 | 5.1 | 7.7# |



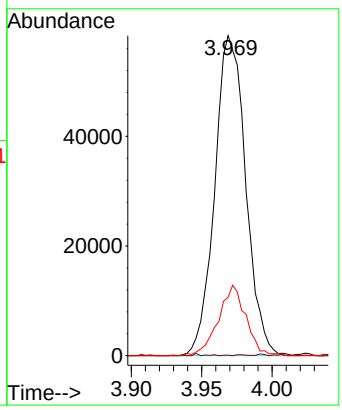


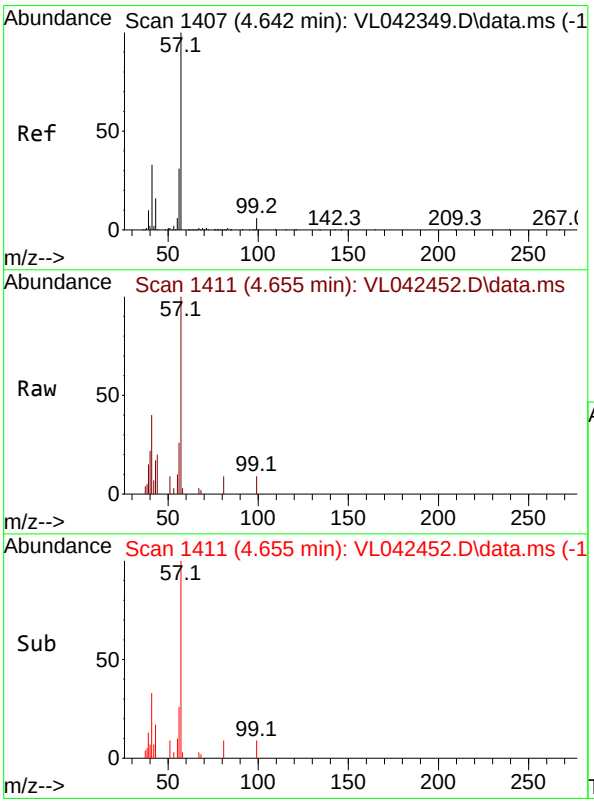

#39
1,2-Dichloropropane
Concen: 7.262 ppbv
RT: 3.969 min Scan# 11
Delta R.T. -0.343 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025DL

Tgt Ion: 63 Resp: 89205

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 0.2 | 64.2 | 96.2# |
| 62 | 18.3 | 54.3 | 81.5# |

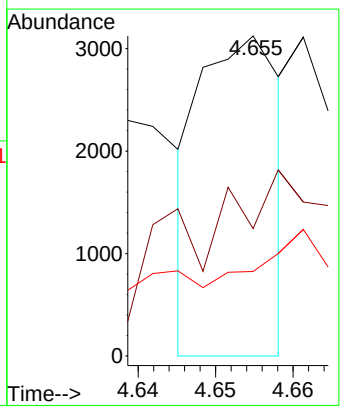


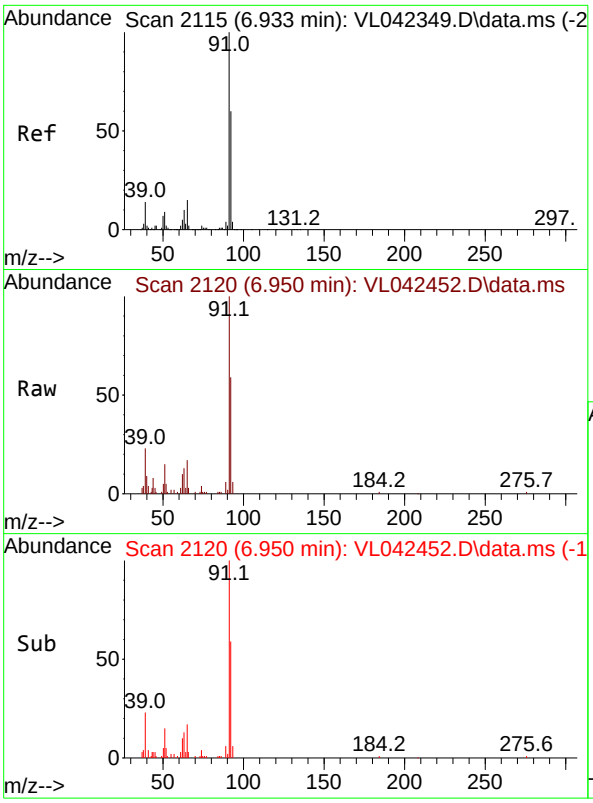




#44
2,2,4-Trimethylpentane
Concen: 0.039 ppbv
RT: 4.655 min Scan# 1411
Delta R.T. 0.013 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

Tgt Ion: 57 Resp: 2244

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 169.2 | 27.2 | 40.8# |
| 56 | 0.0 | 25.7 | 38.5# |



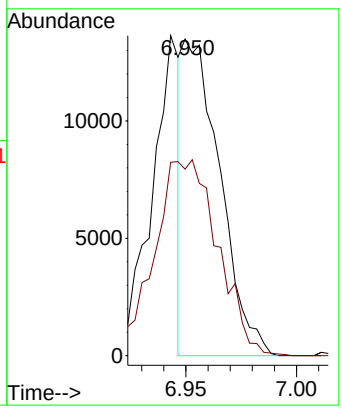


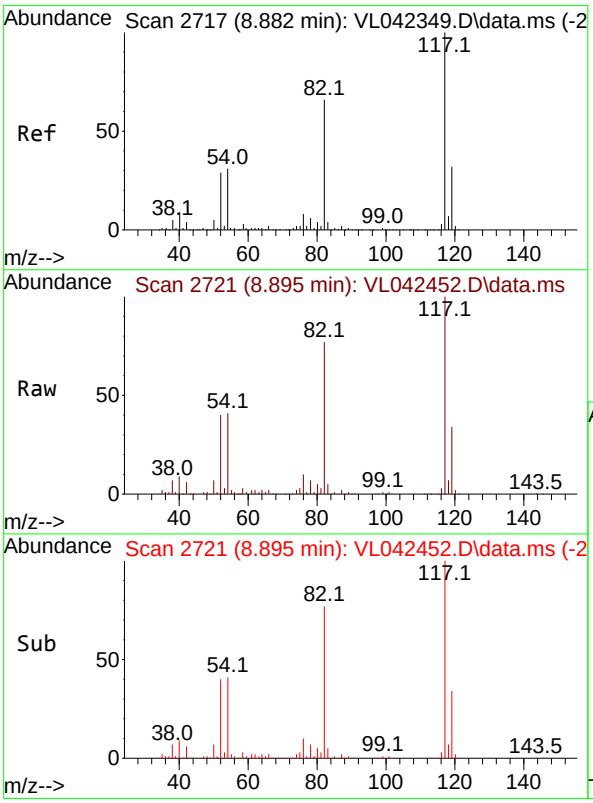

#53
Toluene
Concen: 0.398 ppbv
RT: 6.950 min Scan# 21
Delta R.T. 0.017 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025DL

Tgt Ion: 91 Resp: 15746

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 106.4 | 48.2 | 72.4# |

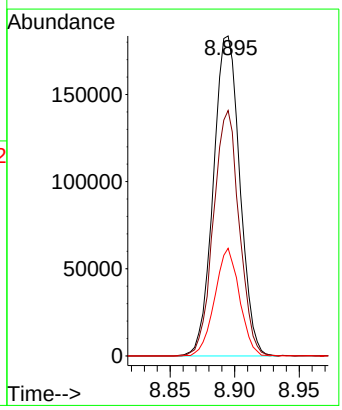


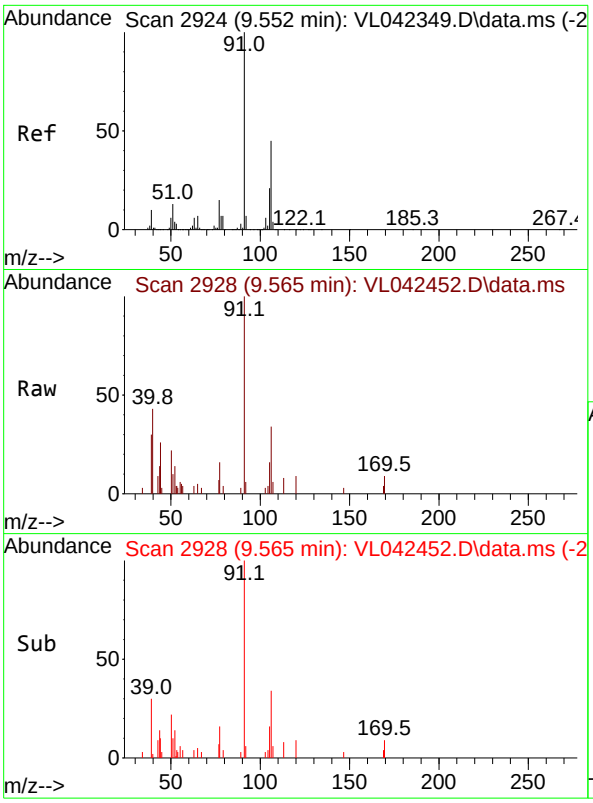




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.895 min Scan# 2721
Delta R.T. 0.013 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

Tgt Ion:117 Resp: 261578

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 74.7 | 57.8 | 86.6 |
| 119 | 31.6 | 25.2 | 37.8 |



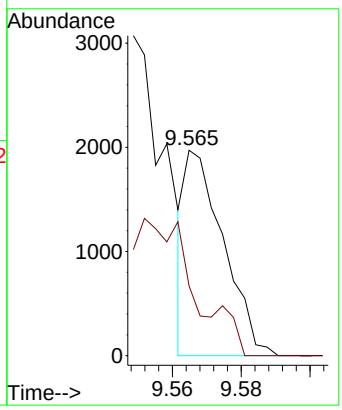


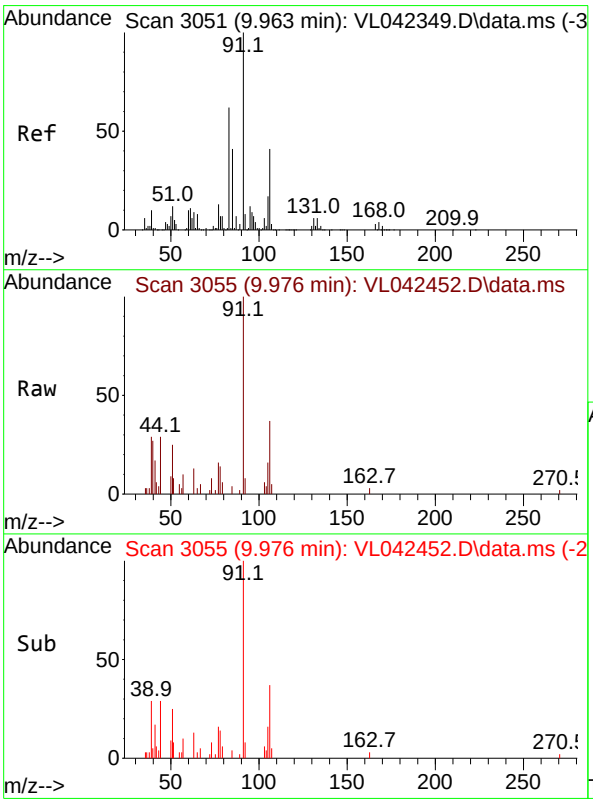

#59
m/p-Xylene
Concen: 0.037 ppbv
RT: 9.565 min Scan# 2
Delta R.T. 0.013 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025DL

Tgt Ion: 91 Resp: 1536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 0.0 | 35.4 | 53.2# |

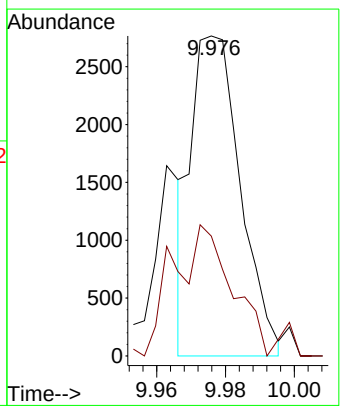


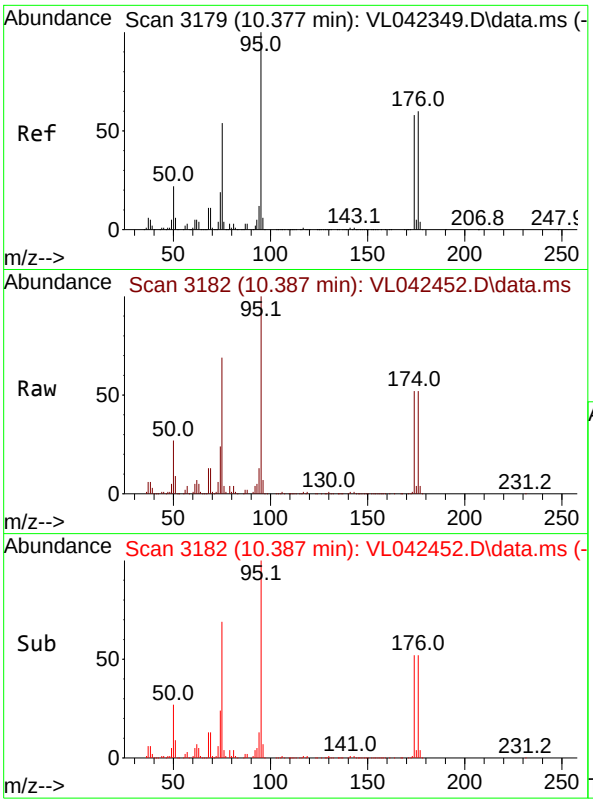




#60
o-Xylene
Concen: 0.065 ppbv
RT: 9.976 min Scan# 3055
Delta R.T. 0.013 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

Tgt Ion: 91 Resp: 2743

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 52.1 | 21.1 | 63.4 |



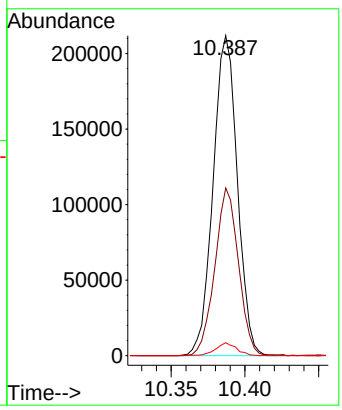



#68
1-Bromo-4-Fluorobenzene
Concen: 11.260 ppbv
RT: 10.387 min Scan# 3
Delta R.T. 0.010 min
Lab File: VL042452.D
Acq: 29 Apr 2025 18:09

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-2-3242025DL

Tgt Ion: 95 Resp: 242040

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 51.1 | 48.5 | 72.7 |
| 175 | 3.5 | 3.7 | 5.5# |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
Data File : VL042453.D
Acq On : 29 Apr 2025 18:42
Operator : SY/MD
Sample : Q1665-21DL 4X
Misc : 400mL/MSVOA_L
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025DL

Quant Time: Apr 30 01:24:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.797 | 49 | 114227 | 10.000 | ppbv | 0.01 |
| 33) 1,4-Difluorobenzene | 3.972 | 114 | 302811 | 10.000 | ppbv | 0.01 |
| 55) Chlorobenzene-d5 | 8.895 | 117 | 257605 | 10.000 | ppbv | 0.01 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.387 | 95 | 229916 | 10.861 | ppbv | 0.01 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 108.600% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.502 | 85 | 2620 | 0.130 | ppbv # | 72 |
| 4) Chloromethane | 1.535 | 50 | 1272 | 0.159 | ppbv # | 87 |
| 9) Propene | 1.625 | 41 | 2938 | 0.336 | ppbv | 99 |
| 10) Heptane | 4.998 | 43 | 849 | 0.035 | ppbv # | 27 |
| 13) Ethanol | 1.726 | 45 | 267493 | 192.292 | ppbv | 76 |
| 15) Acetone | 1.842 | 43 | 73473 | 3.929 | ppbv | 100 |
| 16) 1,3-Butadiene | 1.625 | 39 | 1878 | 0.210 | ppbv # | 9 |
| 17) tert-Butyl alcohol | 2.053 | 59 | 1524 | 0.066 | ppbv # | 47 |
| 19) Isopropyl Alcohol | 1.891 | 45 | 95671 | 9.210 | ppbv # | 36 |
| 20) Methylene Chloride | 2.069 | 84 | 5787 | 0.790 | ppbv | 92 |
| 21) Allyl Chloride | 2.062 | 41 | 421 | 0.033 | ppbv # | 1 |
| 23) Vinyl Acetate | 2.464 | 43 | 5507 | 0.728 | ppbv # | 67 |
| 25) Ethyl Acetate | 2.833 | 43 | 10846 | 0.235 | ppbv # | 92 |
| 26) Hexane | 2.836 | 57 | 10634 | 0.570 | ppbv # | 39 |
| 34) 2-Butanone | 2.567 | 43 | 4171 | 0.174 | ppbv | 94 |
| 36) Benzene | 3.668 | 78 | 2348 | 0.072 | ppbv # | 83 |
| 39) 1,2-Dichloropropane | 3.972 | 63 | 88088 | 7.237 | ppbv # | 23 |
| 53) Toluene | 6.950 | 91 | 56027 | 1.429 | ppbv | 97 |
| 58) Ethyl Benzene | 9.539 | 91 | 4000 | 0.078 | ppbv | 98 |
| 59) m/p-Xylene | 9.562 | 91 | 2048 | 0.050 | ppbv # | 32 |
| 60) o-Xylene | 9.982 | 91 | 1346 | 0.033 | ppbv # | 26 |
| 74) 1,2,4-Trimethylbenzene | 11.542 | 105 | 2240 | 0.043 | ppbv # | 64 |

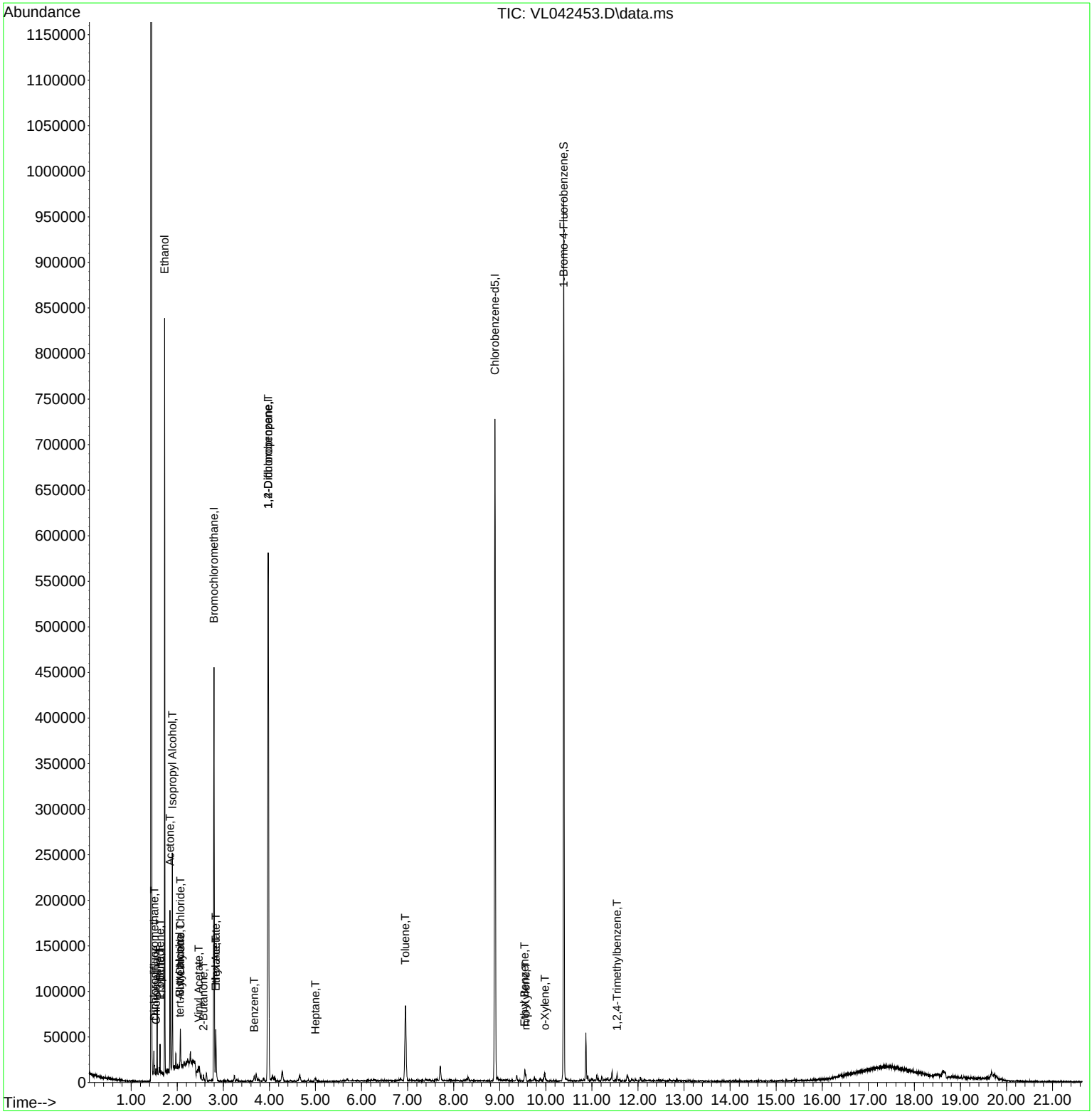
(#) = qualifier out of range (m) = manual integration (+) = signals summed

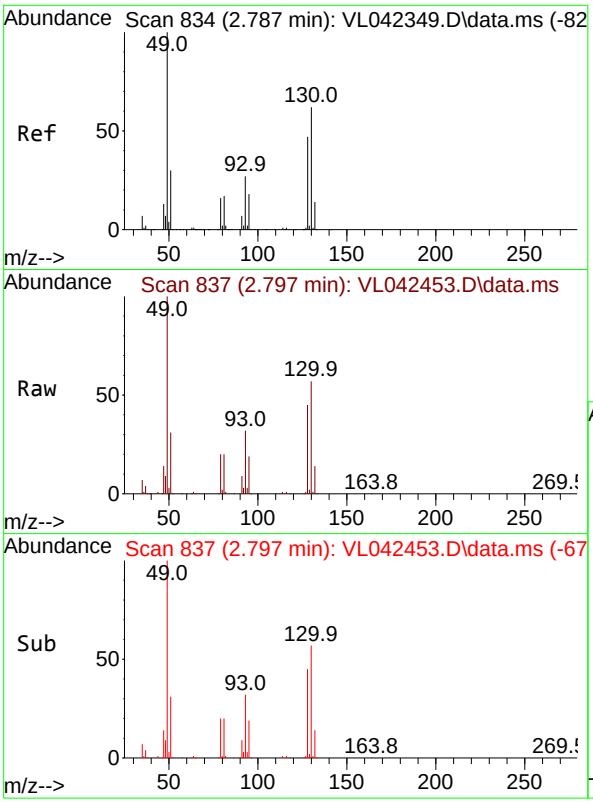
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
Data File : VL042453.D
Acq On : 29 Apr 2025 18:42
Operator : SY/MD
Sample : Q1665-21DL 4X
Misc : 400mL/MSVOA_L
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025DL

Quant Time: Apr 30 01:24:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration



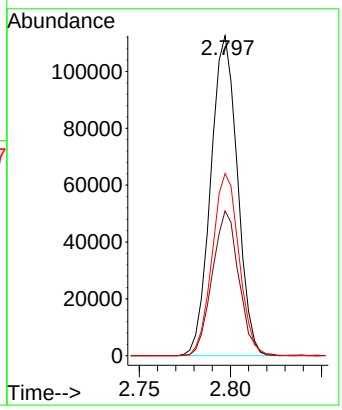


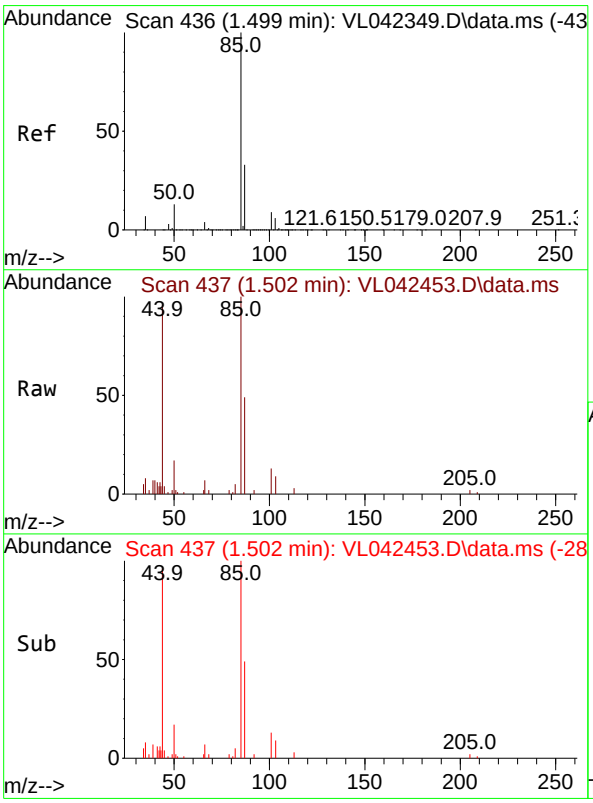

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 8
Delta R.T. 0.010 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025DL

Tgt Ion: 49 Resp: 114227

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 44.9 | 22.8 | 68.4 |
| 130 | 57.3 | 29.3 | 88.0 |

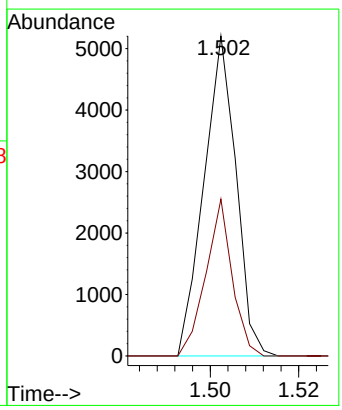


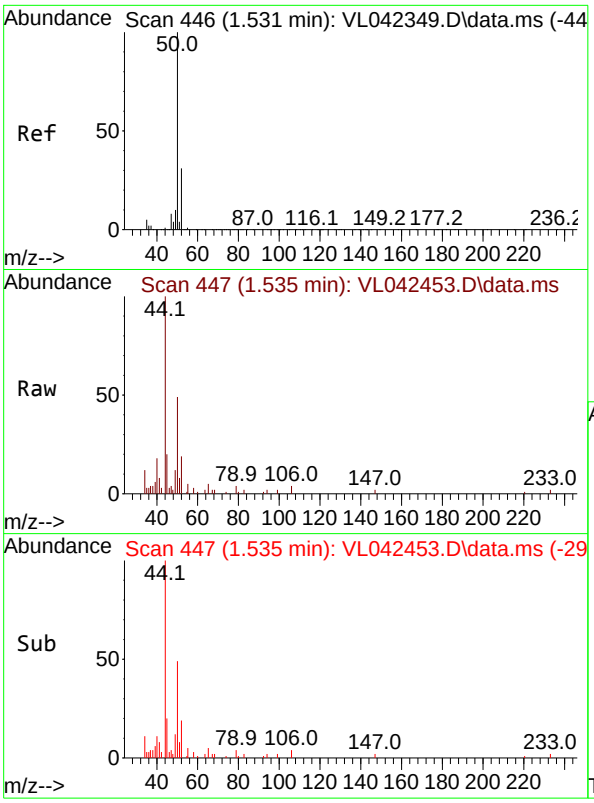




#2
Dichlorodifluoromethane
Concen: 0.130 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.004 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

Tgt Ion: 85 Resp: 2620

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 49.0 | 26.6 | 39.8# |



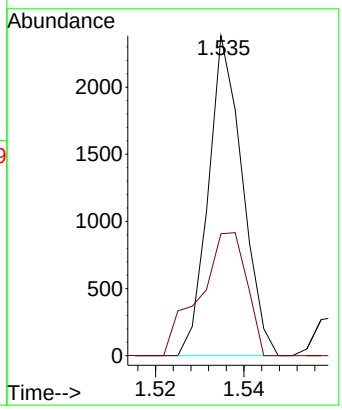


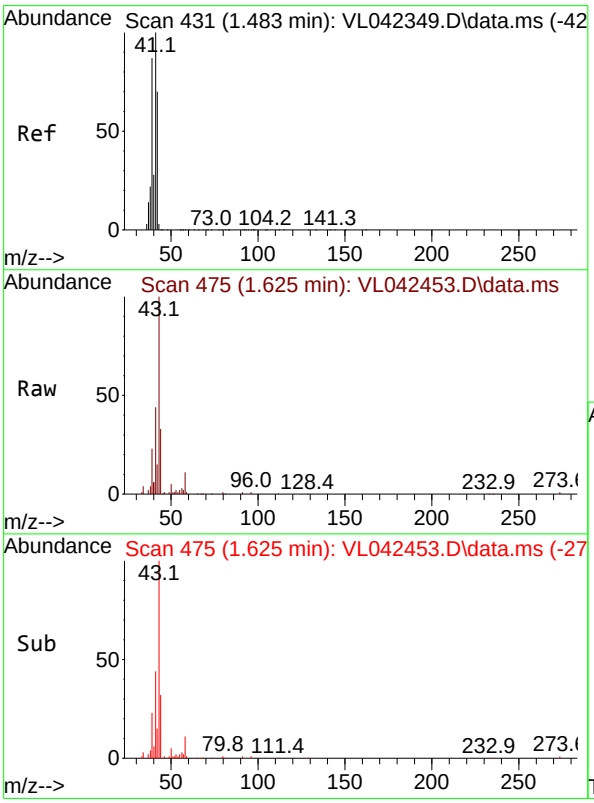

#4
Chloromethane
Concen: 0.159 ppbv
RT: 1.535 min Scan# 44
Delta R.T. 0.004 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025DL

Tgt Ion: 50 Resp: 1272

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 38.1 | 24.7 | 37.1# |

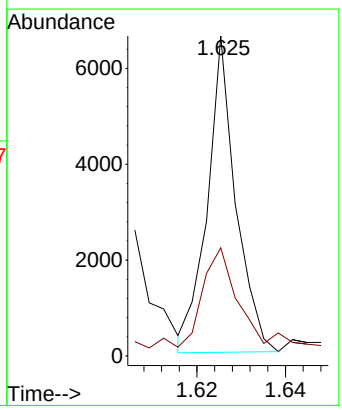


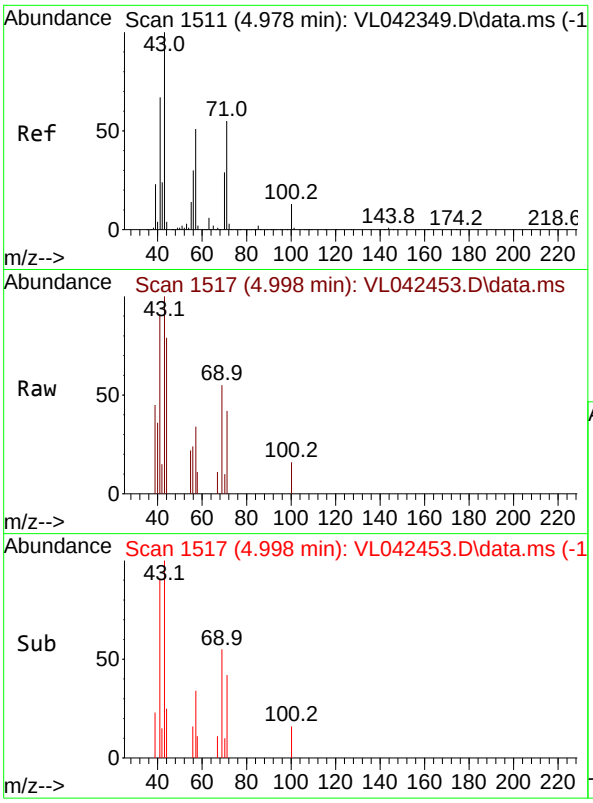




#9
Propene
Concen: 0.336 ppbv
RT: 1.625 min Scan# 475
Delta R.T. 0.143 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

Tgt Ion: 41 Resp: 2938

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 69.7 | 56.2 | 84.4 |



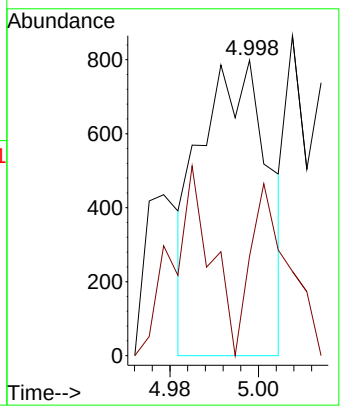


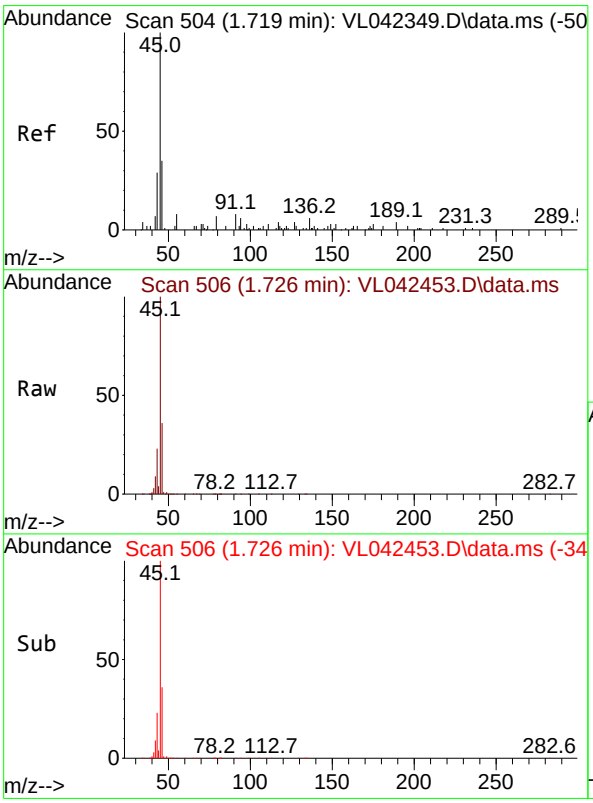

#10
Heptane
Concen: 0.035 ppbv
RT: 4.998 min Scan# 1
Delta R.T. 0.020 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025DL

Tgt Ion: 43 Resp: 849

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 0.0 | 39.9 | 59.9# |

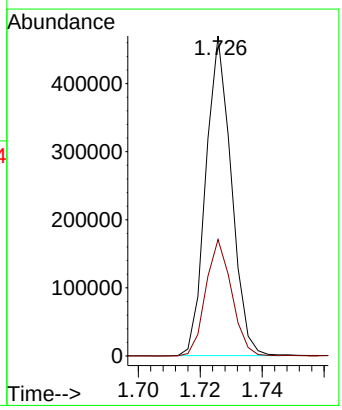


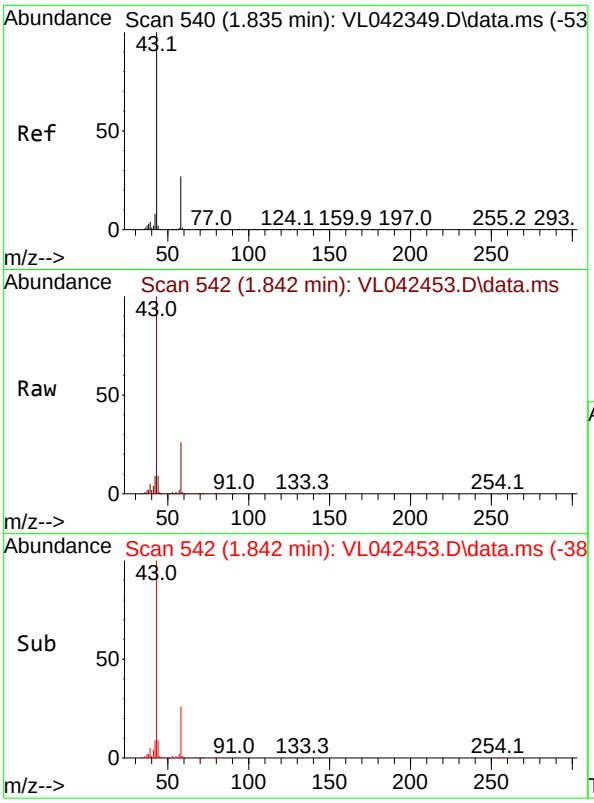




#13
Ethanol
Concen: 192.292 ppbv
RT: 1.726 min Scan# 506
Delta R.T. 0.007 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

Tgt Ion: 45 Resp: 267493

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 37.5 | 21.9 | 87.7 |



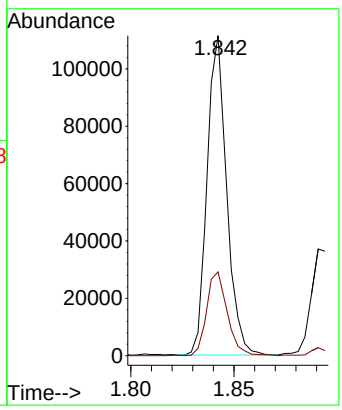


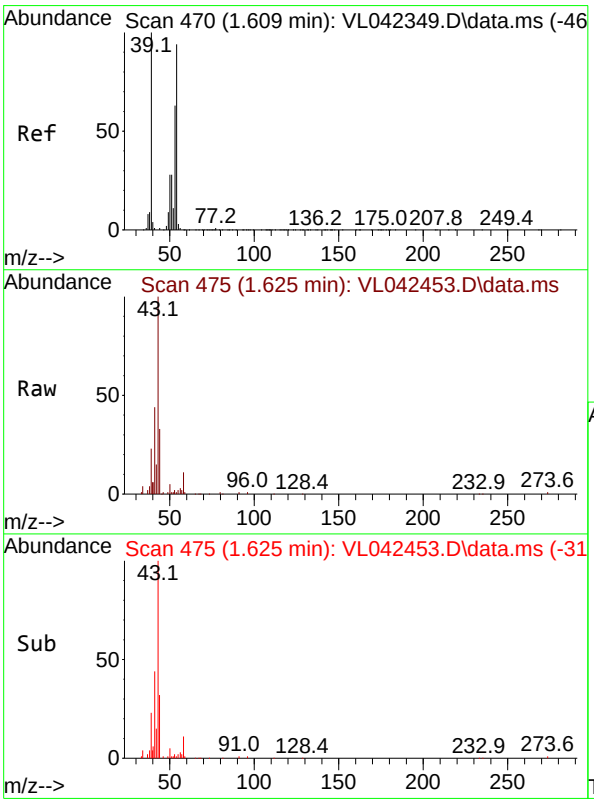

#15
Acetone
Concen: 3.929 ppbv
RT: 1.842 min Scan# 54
Delta R.T. 0.007 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025DL

Tgt Ion: 43 Resp: 73473

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 27.8 | 22.4 | 33.6 |

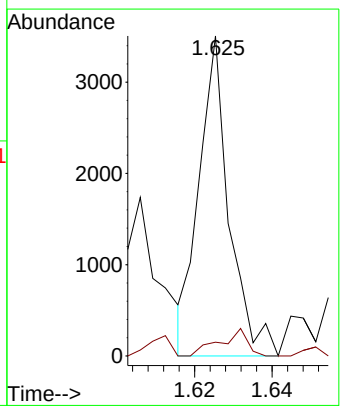


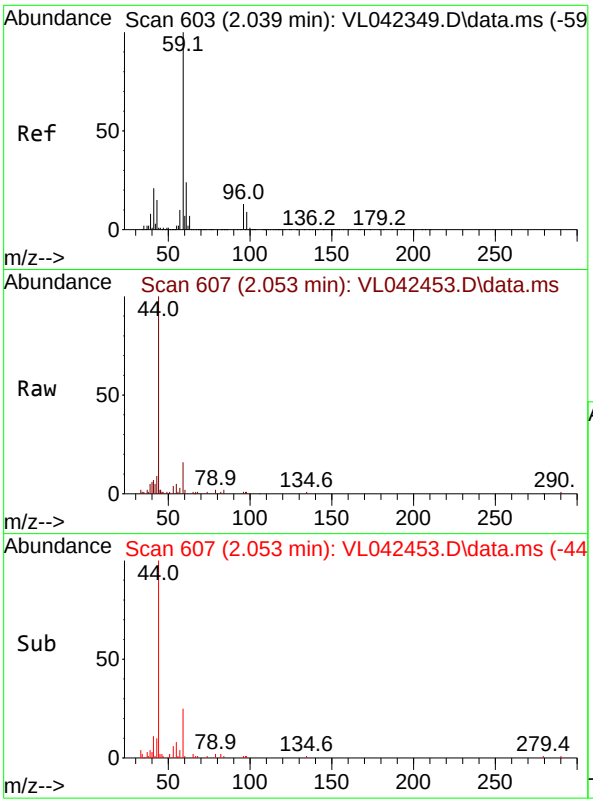




#16
1,3-Butadiene
Concen: 0.210 ppbv
RT: 1.625 min Scan# 475
Delta R.T. 0.017 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

Tgt Ion: 39 Resp: 1878

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 0.0 | 64.9 | 97.3# |



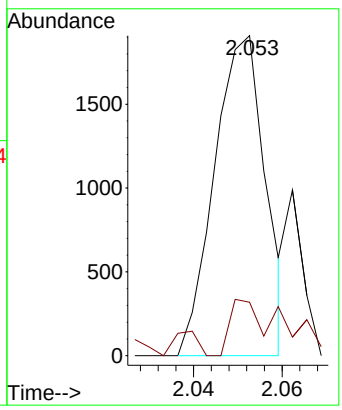


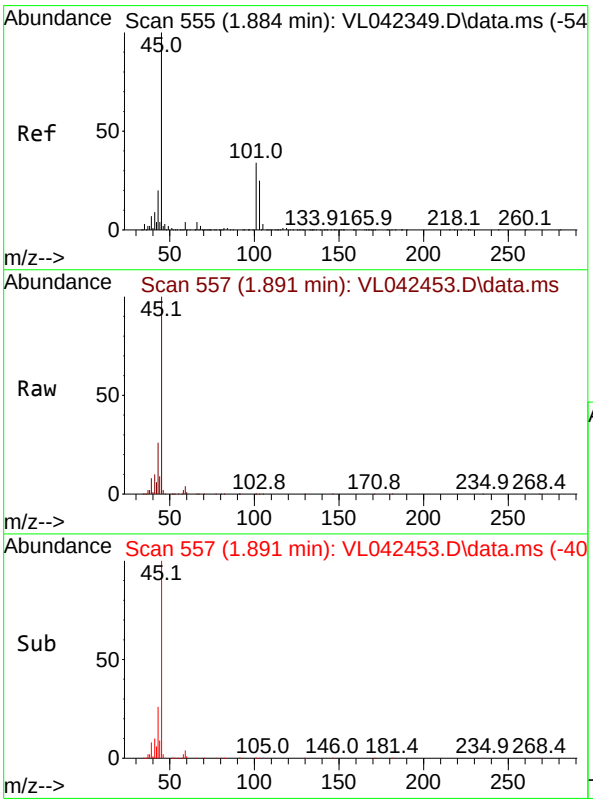

#17
tert-Butyl alcohol
Concen: 0.066 ppbv
RT: 2.053 min Scan# 6
Delta R.T. 0.013 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025DL

Tgt Ion: 59 Resp: 1524

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 31.0 | 8.7 | 13.1# |

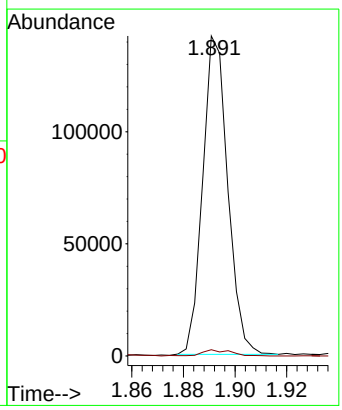


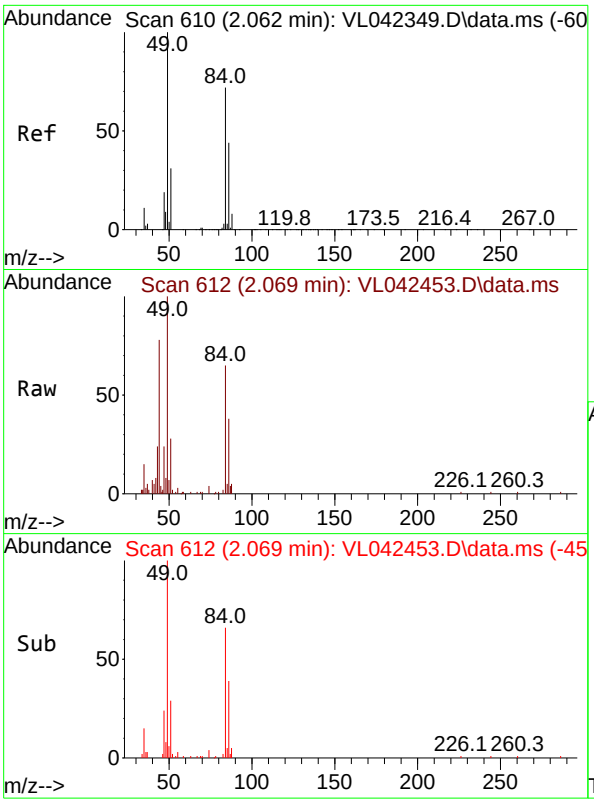




#19
Isopropyl Alcohol
Concen: 9.210 ppbv
RT: 1.891 min Scan# 557
Delta R.T. 0.007 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

Tgt Ion: 45 Resp: 95671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 2.3 | 34.5 | 51.7# |



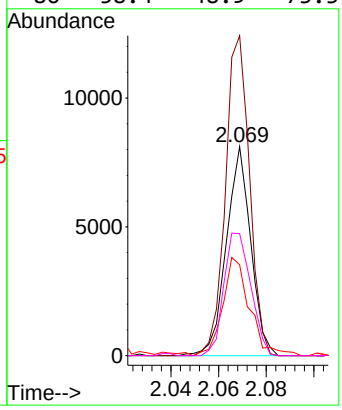


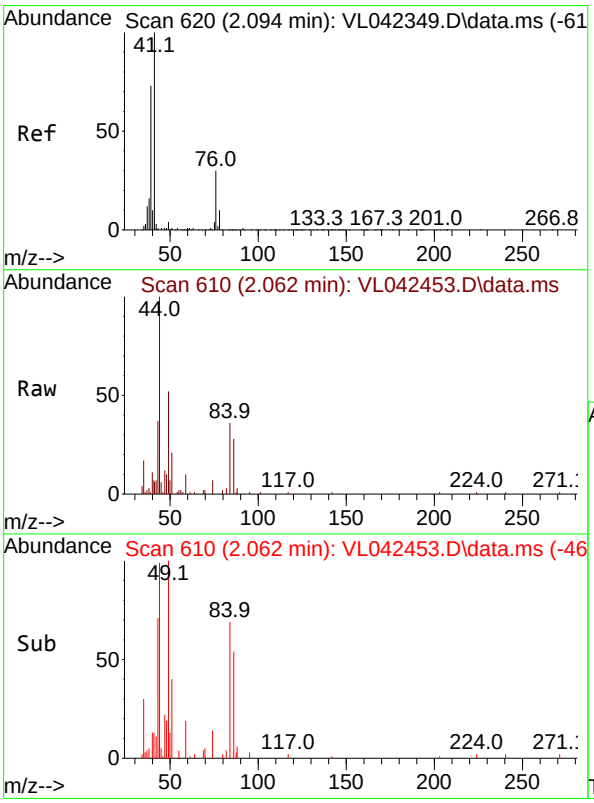

#20
Methylene Chloride
Concen: 0.790 ppbv
RT: 2.069 min Scan# 61
Delta R.T. 0.007 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025DL

Tgt Ion: 84 Resp: 5787

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 153.1 | 111.6 | 167.4 |
| 51 | 42.5 | 35.1 | 52.7 |
| 86 | 58.4 | 48.9 | 73.3 |

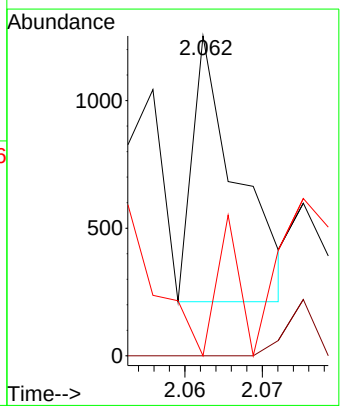


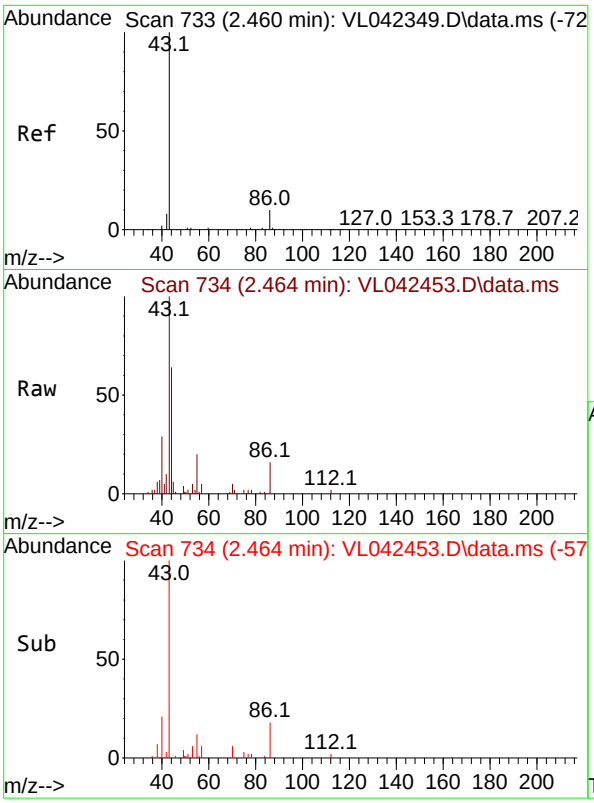




#21
Allyl Chloride
Concen: 0.033 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.032 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

Tgt Ion: 41 Resp: 421

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 13.1 | 24.8 | 37.2# |
| 39 | 292.4 | 60.6 | 90.8# |



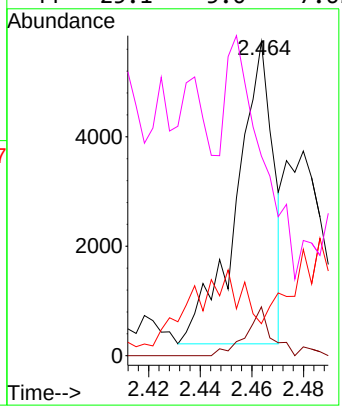


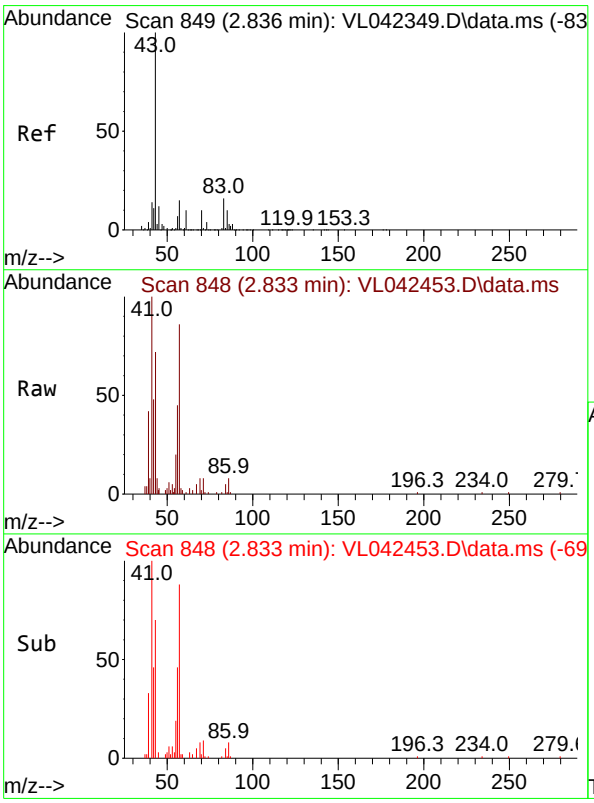

#23
Vinyl Acetate
Concen: 0.728 ppbv
RT: 2.464 min Scan# 7
Delta R.T. 0.004 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025DL

Tgt Ion: 43 Resp: 5507

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 16.1 | 6.5 | 9.7# |
| 42 | 0.0 | 7.8 | 11.8# |
| 44 | 25.1 | 5.0 | 7.6# |

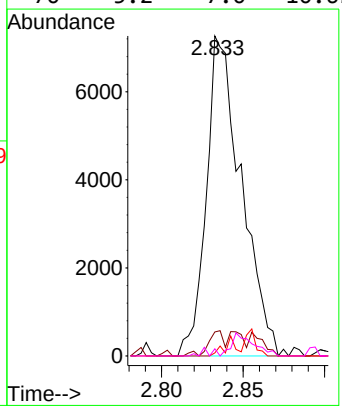


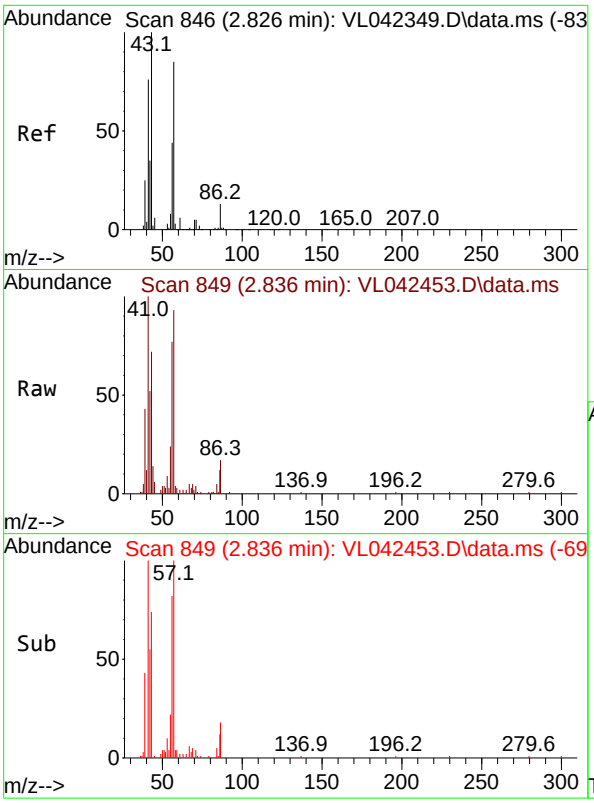




#25
Ethyl Acetate
Concen: 0.235 ppbv
RT: 2.833 min Scan# 848
Delta R.T. -0.003 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

Tgt Ion: 43 Resp: 10846

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 9.8 | 8.3 | 12.5 |
| 61 | 4.3 | 7.3 | 10.9# |
| 70 | 5.2 | 7.0 | 10.6# |



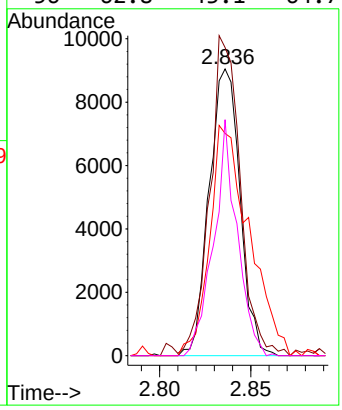


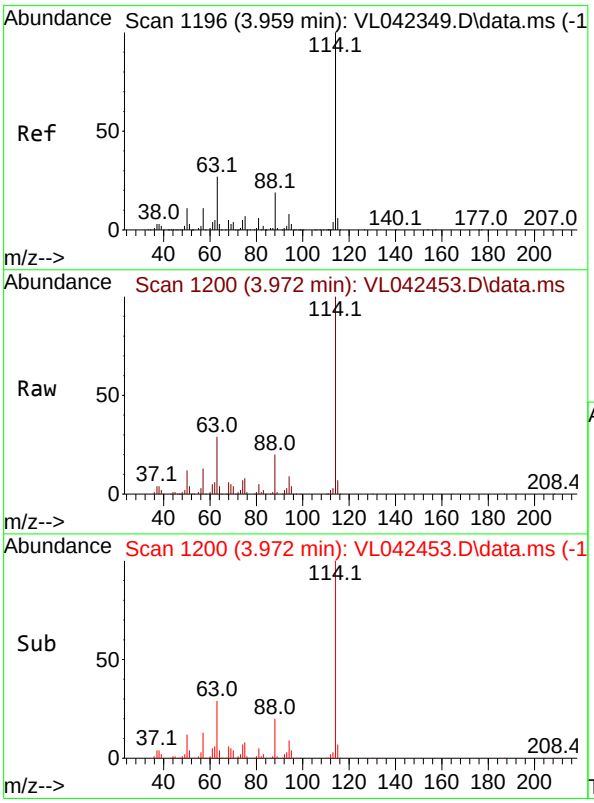

#26
Hexane
Concen: 0.570 ppbv
RT: 2.836 min Scan# 84
Delta R.T. 0.010 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025DL

Tgt Ion: 57 Resp: 10634

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 112.6 | 77.9 | 116.9 |
| 43 | 102.9 | 208.4 | 312.6# |
| 56 | 62.8 | 43.1 | 64.7 |

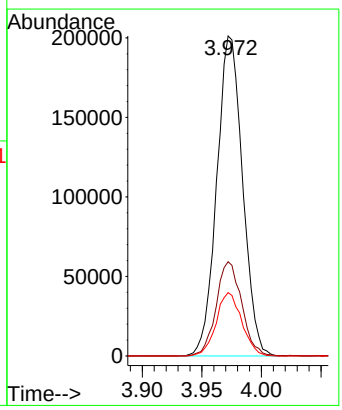


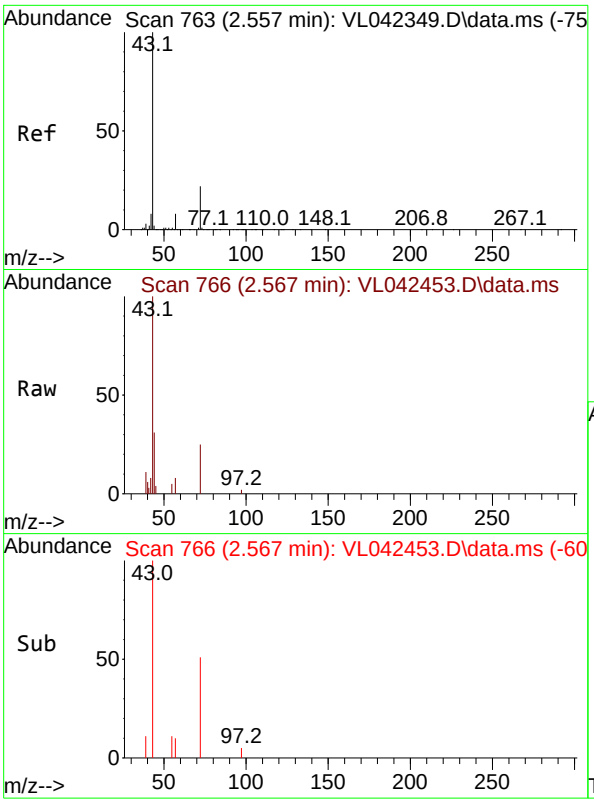




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.972 min Scan# 1200
Delta R.T. 0.013 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

Tgt Ion:114 Resp: 302811

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 29.1 | 21.8 | 32.6 |
| 88 | 19.6 | 15.5 | 23.3 |



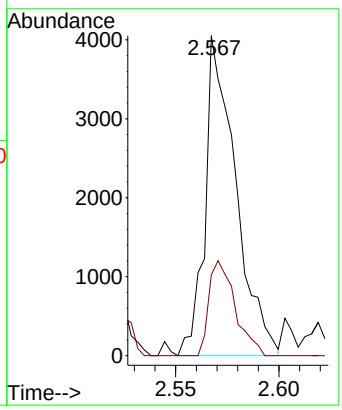


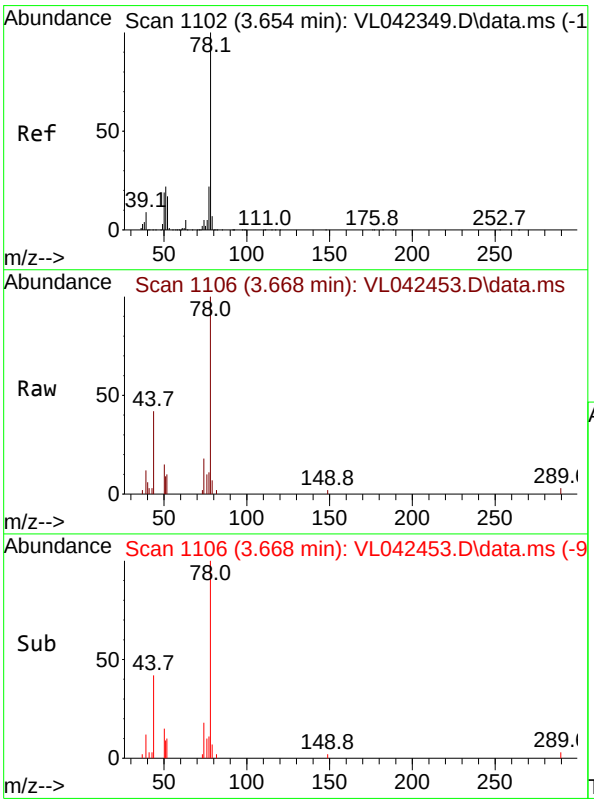

#34
2-Butanone
Concen: 0.174 ppbv
RT: 2.567 min Scan# 7
Delta R.T. 0.010 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025DL

Tgt Ion: 43 Resp: 4171

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 25.4 | 18.2 | 27.2 |

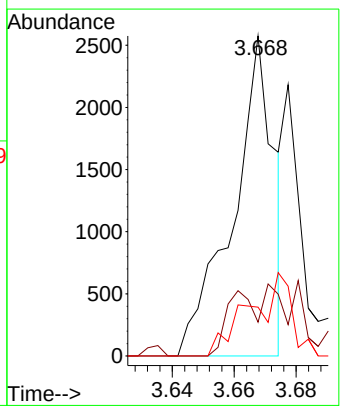


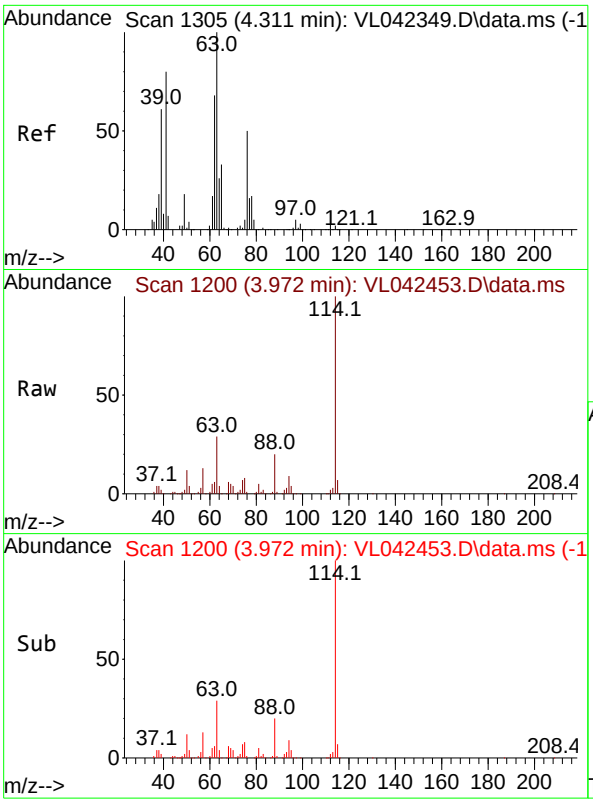




#36
Benzene
Concen: 0.072 ppbv
RT: 3.668 min Scan# 1106
Delta R.T. 0.013 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

Tgt Ion: 78 Resp: 2348

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 10.6 | 17.4 | 26.0# |
| 50 | 15.3 | 15.5 | 23.3# |



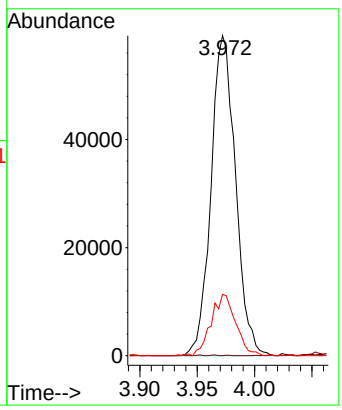


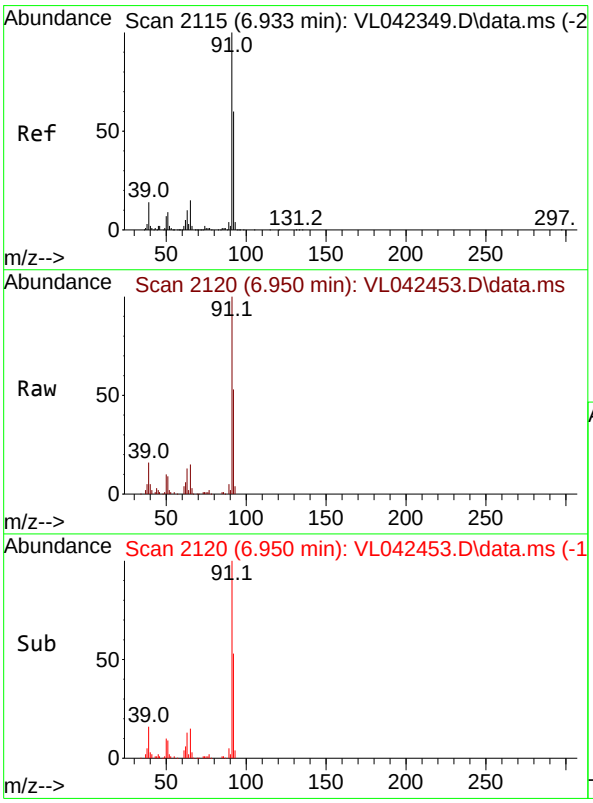

#39
1,2-Dichloropropane
Concen: 7.237 ppbv
RT: 3.972 min Scan# 1
Delta R.T. -0.339 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025DL

Tgt Ion: 63 Resp: 88088

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 0.0 | 64.2 | 96.2# |
| 62 | 19.1 | 54.3 | 81.5# |

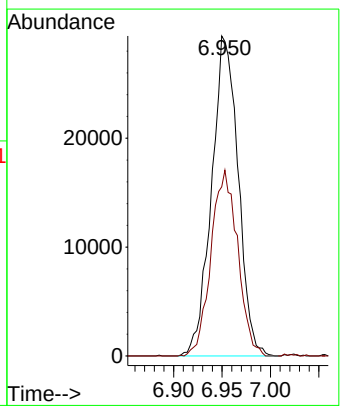


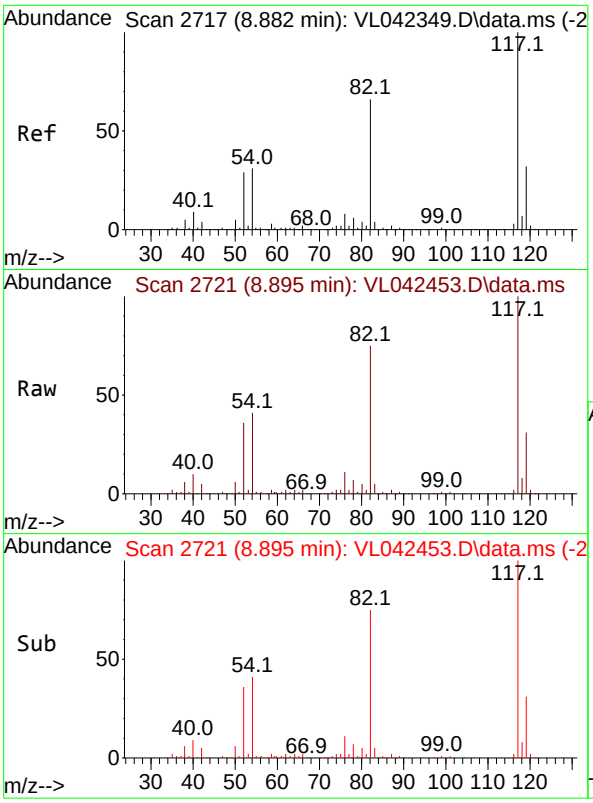




#53
Toluene
Concen: 1.429 ppbv
RT: 6.950 min Scan# 2120
Delta R.T. 0.017 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

Tgt Ion: 91 Resp: 56027

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 58.2 | 48.2 | 72.4 |



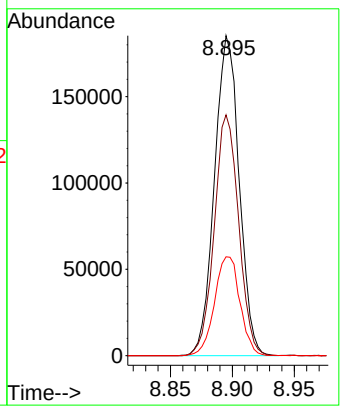


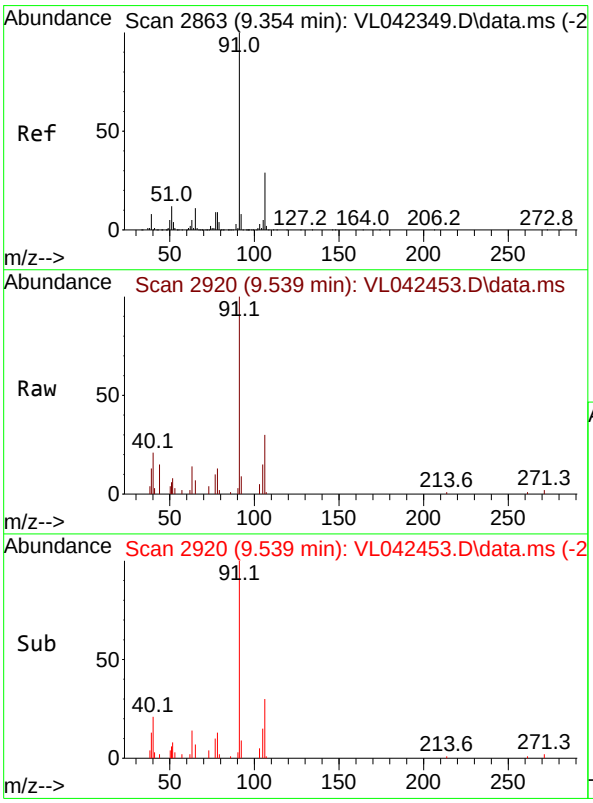

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.895 min Scan# 2
Delta R.T. 0.013 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025DL

Tgt Ion:117 Resp: 257605

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 74.3 | 57.8 | 86.6 |
| 119 | 31.9 | 25.2 | 37.8 |

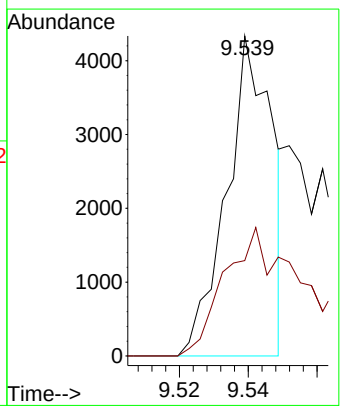


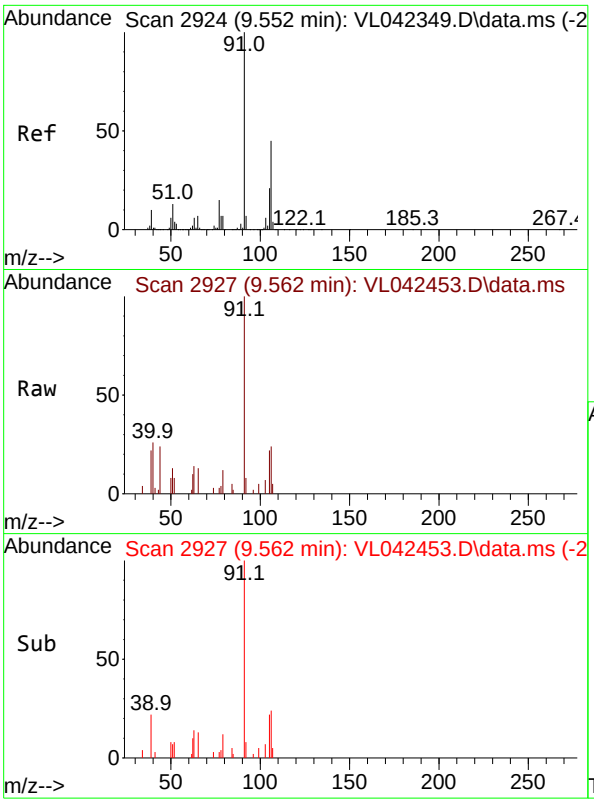




#58
Ethyl Benzene
Concen: 0.078 ppbv
RT: 9.539 min Scan# 2920
Delta R.T. 0.185 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

Tgt Ion: 91 Resp: 4000

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.8 | 23.0 | 34.4 |



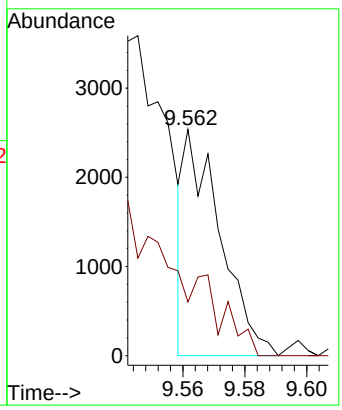


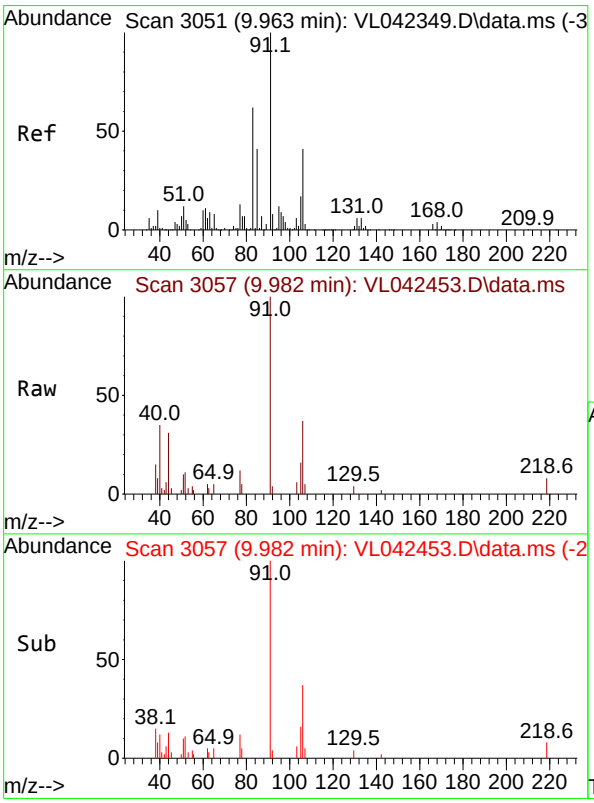

#59
m/p-Xylene
Concen: 0.050 ppbv
RT: 9.562 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025DL

Tgt Ion: 91 Resp: 2048

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 0.0 | 35.4 | 53.2# |

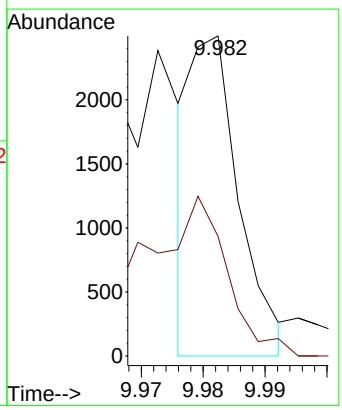


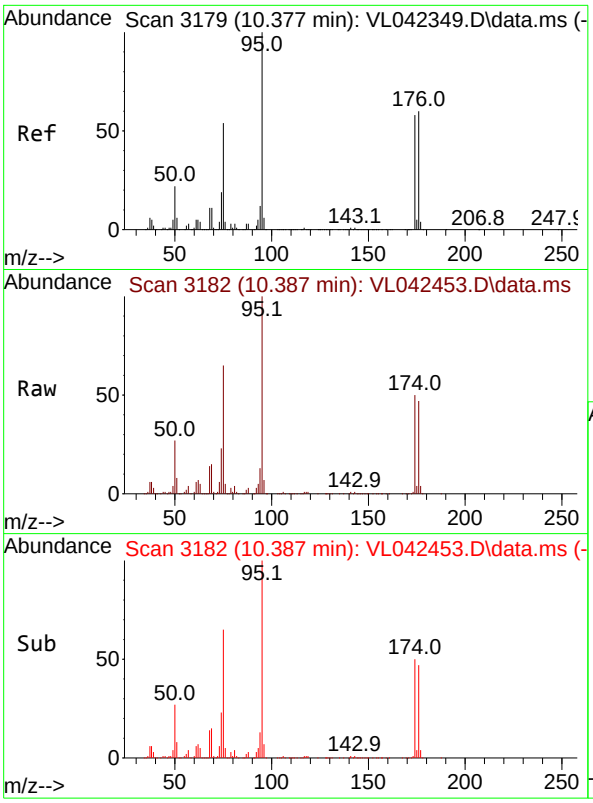




#60
o-Xylene
Concen: 0.033 ppbv
RT: 9.982 min Scan# 3057
Delta R.T. 0.020 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

Tgt Ion: 91 Resp: 1346

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 89.4 | 21.1 | 63.4# |



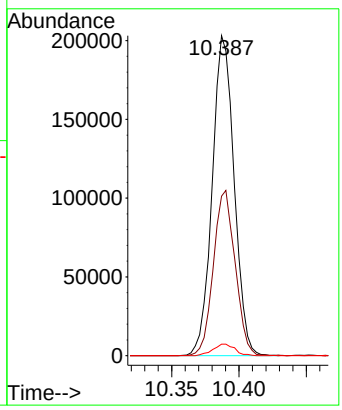


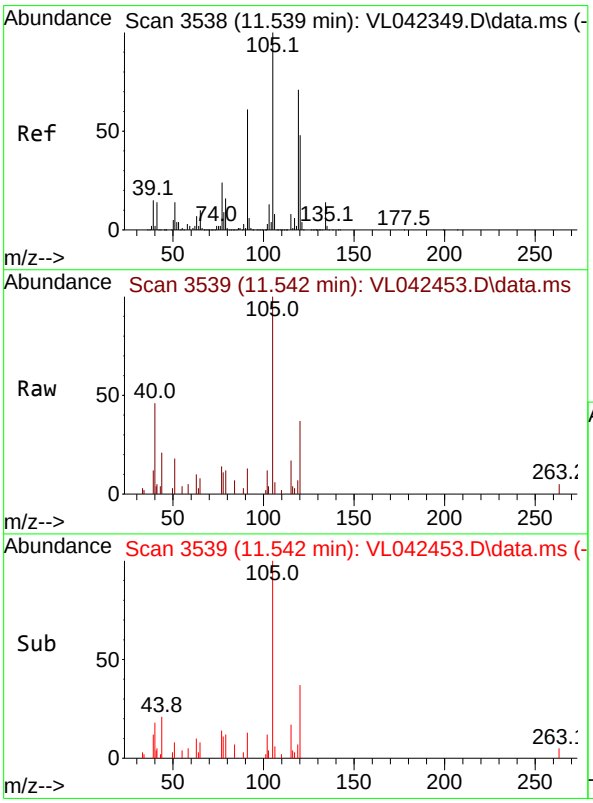

#68
1-Bromo-4-Fluorobenzene
Concen: 10.861 ppbv
RT: 10.387 min Scan# 3
Delta R.T. 0.010 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA-B2-1-3242025DL

Tgt Ion: 95 Resp: 229916

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 51.3 | 48.5 | 72.7 |
| 175 | 3.6 | 3.7 | 5.5# |




#74
1,2,4-Trimethylbenzene
Concen: 0.043 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.004 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

Tgt Ion:105 Resp: 2240

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 36.7 | 38.1 | 57.1# |
| 91 | 12.6 | 48.8 | 73.2# |
| 77 | 25.8 | 19.0 | 28.4 |